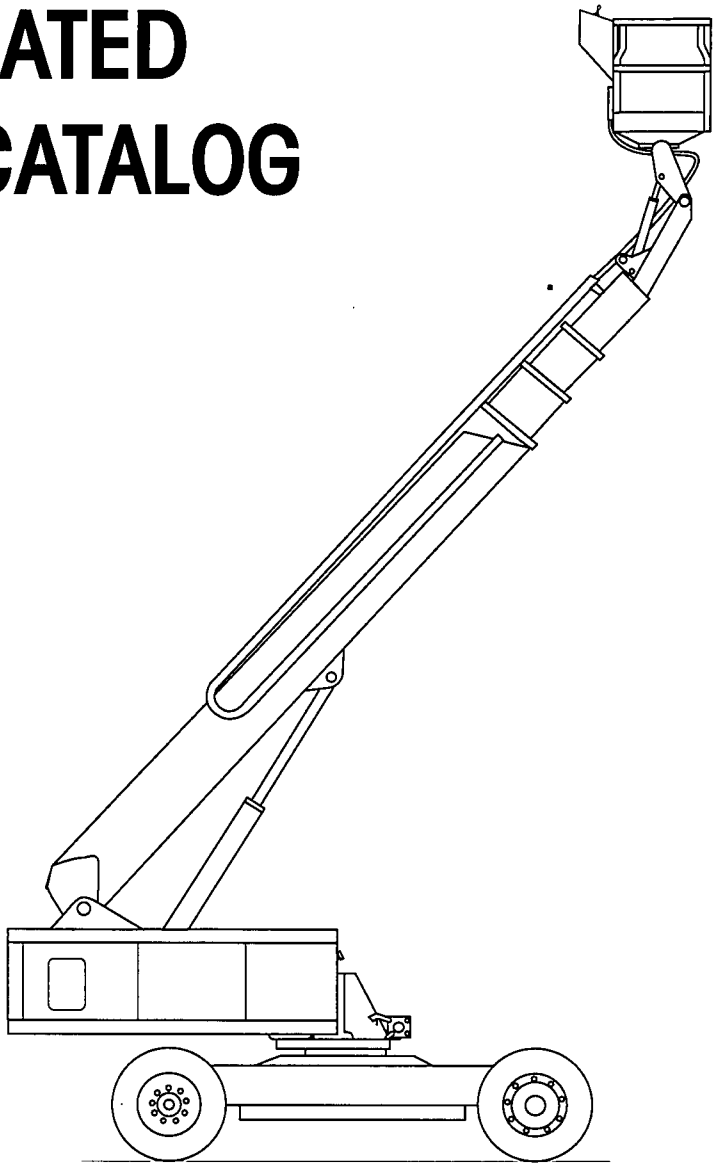
TEREX AERIALS
Milwaukee, Wisconsin

# MODEL MP 110

# ILLUSTRATED PARTS CATALOG

**FOR MACHINE**
**SERIAL NUMBER**

_____



Art # A00.00130E

**Part No. 89-113005**

# INTRODUCTION

This Illustrated Parts Catalog is designed to help you identify and order the correct replacement parts for use on SIMON MP SERIES SELF-PROPELLED AERIAL WORK PLATFORMS. The "MP" Series includes "MP", "MPE", "MPH", "MPL", "MPN", "MP ... Z", and "IMP" models. All parts represented here are manufactured and supplied in accordance with Simon Aerials quality standards. We recommend that you use GENUINE SIMON AERIALS PARTS to insure maximum SAFETY and PERFORMANCE.

Prices for all parts listed in this Catalog can be found in a separate Spare Parts Price List. Please contact Simon Aerials Parts Department for the latest edition of the Spare Parts Price List.

## HOW TO USE THIS CATALOG

The Cover Page indicates the specific model or models covered by this Parts Catalog.

The "Primary Machine Component Groups" page illustrates the four major assemblies, along with their "Section" number.

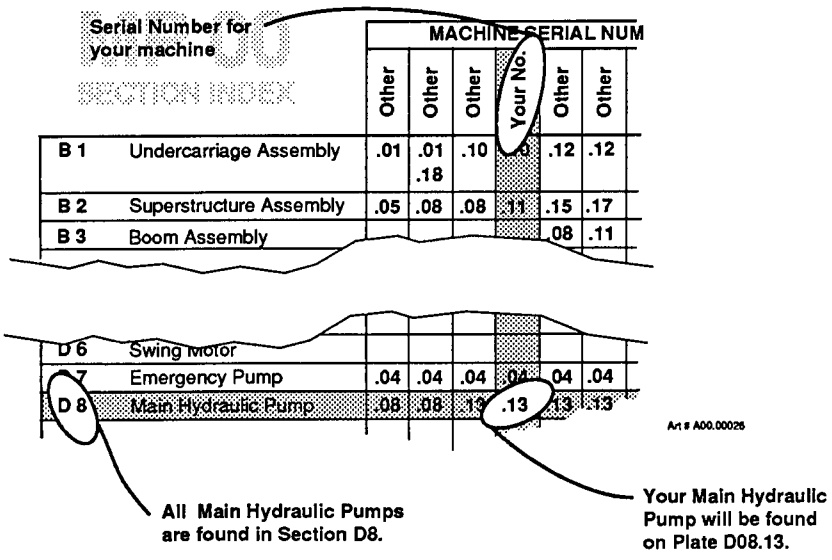
The Parts Catalog is divided into "Sections", numbered from B 1 through F 99. Each section contains the individual parts that make up a major component, assembly or item.

- The first four sections (B 1 through B 4) contain the major assemblies, or "Primary Machine Component Groups".
- Sections that follow contain sub-assemblies or components of these "major" assemblies.
  - Section C contains Subassemblies,
  - Section D contains Hydraulic Components,
  - Section E contains Electrical Components, and
  - Section F contains Mechanical Components.

Because of the "custom" nature of the MP Series machines, the index of this Parts Catalog is structured to indicate the components of specific units by serial number. The "Section Index" pages list the sections, page numbers and page titles that are relevant to this model, and that are contained in this Catalog. Some pages not referring specifically to YOUR PARTICULAR MACHINE may be included in this Catalog.

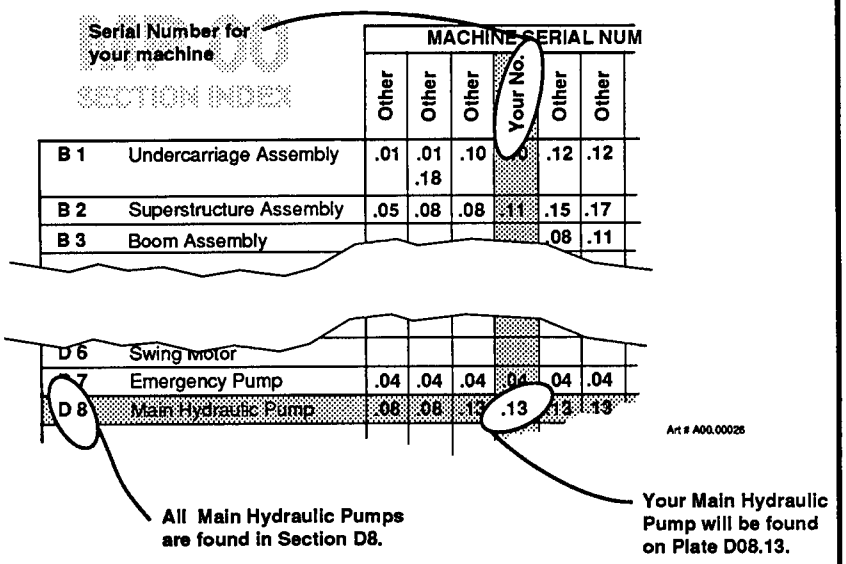
The serial number of YOUR MACHINE can be found on the serial number plate located inside the engine compartment. This serial number will also be found at the top of the "Section Index", and the page plates showing the components of YOUR MACHINE will be found in the column beneath that serial number.

When selecting parts for a specific machine, be sure to verify the machine model number, and serial number or date code (found on the data plate).



When ordering parts, always give:

1. Model and Serial Number
2. Item Part Number/ Description
3. Order Quantity




Items with indented descriptions are components of the non-indented item directly above.

If a part number, blank space, or an indication "SEE INDEX" in the "PART NO." column of the page plate is followed by a plate number in the "SEE SECTION" column, refer to the "Section Index", and the plate indicated for YOUR PARTICULAR MACHINE to see a further breakdown of components for that part. If no plate number is listed in the "Section Index" column for YOUR PARTICULAR MACHINE, a check of page plates listed for other serial numbers may help identify SIMILAR parts.

**⚠ CAUTION**

Parts that appear to be similar may in fact be quite different.

Some assembled items, such as hydraulic cylinders, may have been supplied by more than one source. While the assemblies may be able to be used interchangeably, FOR SAFETY'S SAKE, do not mix components or repair kits.

Please confirm the make of the assembly on the unit before ordering or installing replacement parts. When in doubt, consult Simon Aerials Parts Department for assistance.

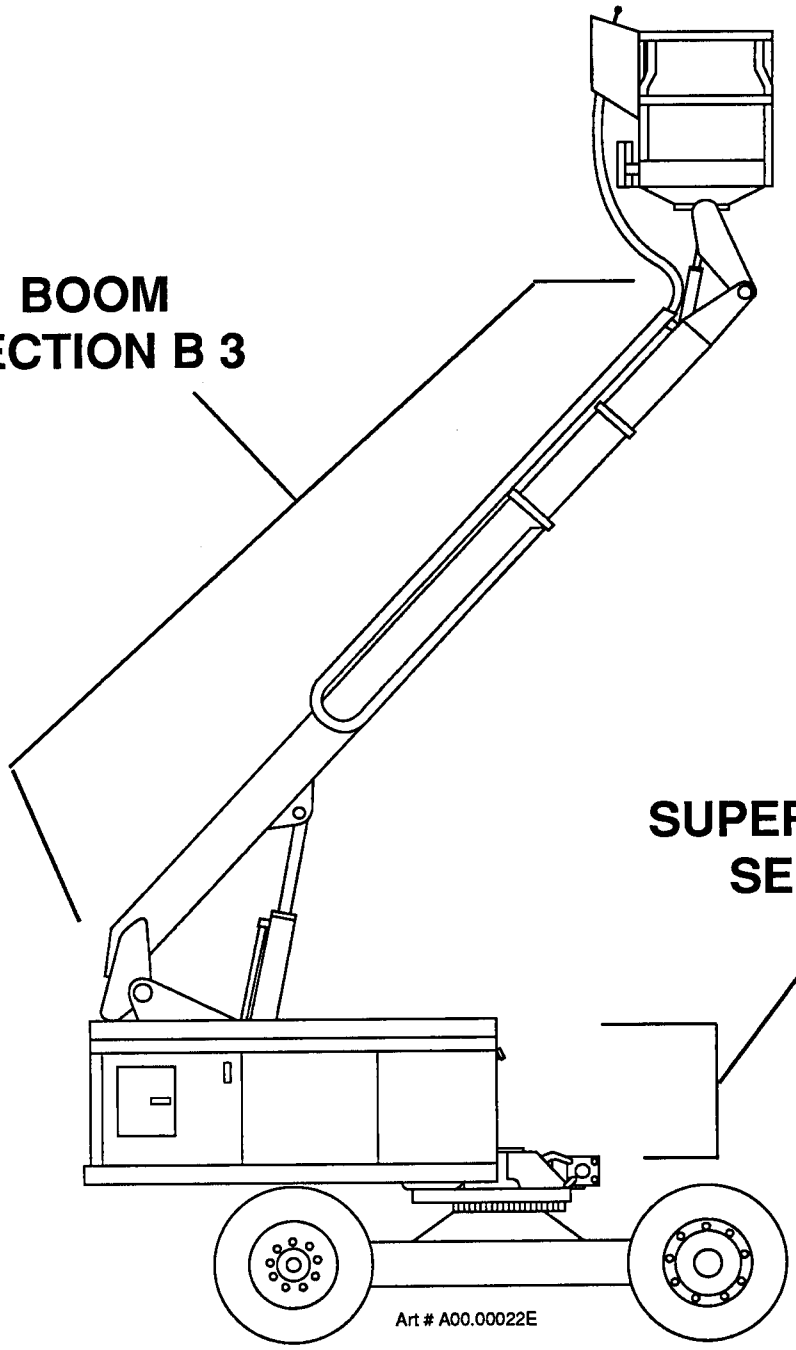
If a part number is not listed for a selected item, please provide this additional information:

4. Parts Plate number, Item Number and Description of the desired item, OR
5. Part Number of the next assembly ("Parent" Part), if the desired item is not listed.

Left and right-hand, front and rear should be determined as though you are standing at the Platform Control Console, with the Platform in stowed position (over the non-steering axle on most models; refer to large "FORWARD" arrow on top of undercarriage). All dimensions are in inches unless otherwise specified.

SIMON AERIALS INC. reserves the right to change, improve, modify or expand features of its equipment. Therefore, specifications, models or equipment are subject to change without notice, and without incurring obligation to change, improve, modify or expand features of previously delivered units.

All SIMON AERIALS INC. manuals are periodically updated to reflect changes that occur in the equipment. Please contact Simon Aerials Technical Support Department with any questions you may have regarding your particular machine, or the availability of more recent manuals.




| TITLE | PRIMARY MACHINE COMPONENT GROUPS | |
|---|---|---|
| SIMON AERIALS INC. | PART NO. | PLATE NO. |

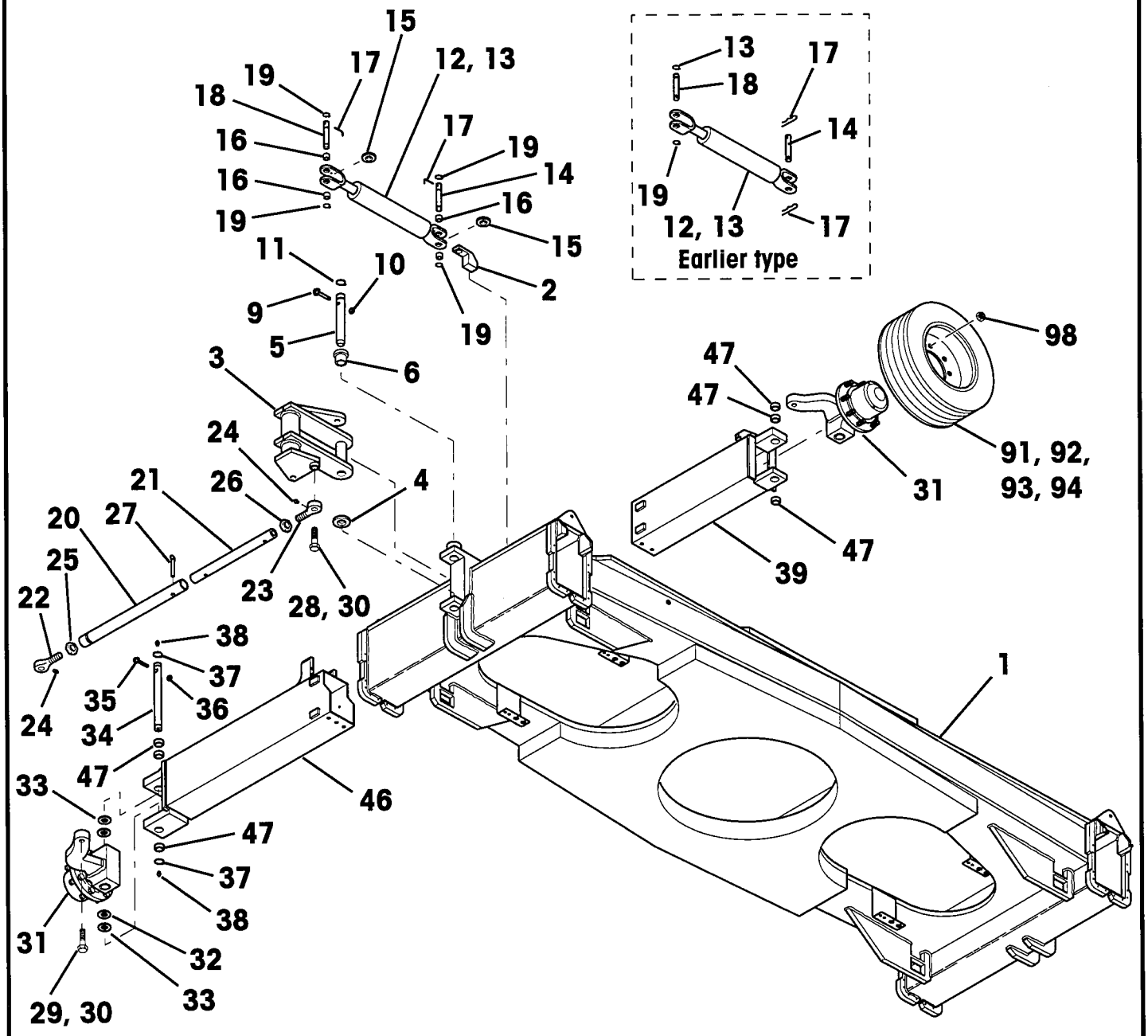
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | This undercarriage for long reach, heavy capacity MP or RP series (MPH 80, MP 95, MP 110, RP 120) with extendable axles. For 4WD components, see plate B01.28. | |
| 1 | 209 5804 | | UNDERCARRIAGE WELDMENT (for two-wheel drive) | 1 |
| 2 | 232 8170 | | EAR, STEER CYLINDER MOUNTING (must be welded in place) | 1 |
| 3 | 209 5932 | | ARM, CENTER STEER (without tow package) | 1 |
| | (style 1) | | specify drilled for 1" dia. steer cylinder pin (**no** bearings). | |
| | (style 2) | | specify drilled for 1-1/4" O.D. steer cylinder pin bearings. | |
| | | | (**Note:** with tow package, **also order** tow bar pin tube, part number 210 3600. Welding required.) | |
| 4 | 08-014100 | | WASHER, THRUST (1-1/2" I.D., 3-1/2" O.D.) | 2 |
| 5 | 208 9962 | | PIN, STEER ARM (1-1/2" dia. x 19" long) | 1 |
| 6 | 08-002000 | | BEARING, FLANGED (1-1/2" I.D., 1-3/4" O.D., with 2" flange) | 1 |
| 7 | 08-050000 | | FITTING, GREASE (1/8", straight) | 3 |
| 8 | 08-066300 | | CAP, GREASE FITTING (White plastic) | 3 |
| 9 | 07-003095 | | CAP SCREW, HEX HEAD (1/2"-13 x 3-1/2", Grade 5) | 1 |
| 10 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 1 |
| 11 | 08-040900 | | RING, RETAINING (1.5") | 1 |
| 12 | See index | D01. - - | CYLINDER, STEER | 1 |
| 13 | 06-044600 | | 90° ELBOW, "O"-RING TO 37° (6 C5OX-S) | 2 |
| 14 | | | PIN, STEER CYLINDER (base end) | 1 |
| | 04-003401 | | Early type (1" dia. x 3-1/2" long, used with hairpin clip) | |
| | 232 8180 | | Later type (1" x 3-15/16", used with "L" pin 219 7360) | |
| 15 | 08-080500 | | WASHER, BEARING (1" I.D., 1-5/8" O.D., 1/8" thick) | 2 |
| 16 | 08-070400 | | BEARING, SLEEVE (used with later style pins) | |
| | | | (Bronze, 1" I.D., 1-1/4" O.D., 1/2" long) | 4 |
| 17 | 04-003404 | | CLIP, HAIR PIN (for earlier style pins) | 2 |
| | 219 7360 | | PIN, LOCK ("L"-type, 2" [51 mm] long, for later style pins) | 2 |
| 18 | | | PIN, STEER CYLINDER (rod end) | |
| | 217 1250 | | Early type (1" dia. x 3-7/16" long, used with hairpin clip) | 1 |
| | 232 8180 | | Later type (1" x 3-15/16", used with "L" pin 219 7360) | 1 |
| 19 | 08-040600 | | RING, RETAINING (1") (2 used with earlier pins, 4 later) | A.R. |

TITLE: UNDERCARRIAGE ASSEMBLY (2WD)

SECTION B01. | PLATE NO. 12 | PAGE 01 | REV. A | DATED 10 OCT., 1996 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172




Art #B01.12004E

| | | | | | | |
|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE | UNDERCARRIAGE ASSEMBLY (2WD) | | | | |
| | PART NO. | REV. A | DATED 10 OCT., 1996 | SECTION B01. | PLATE NO. 12 | PAGE 01 |

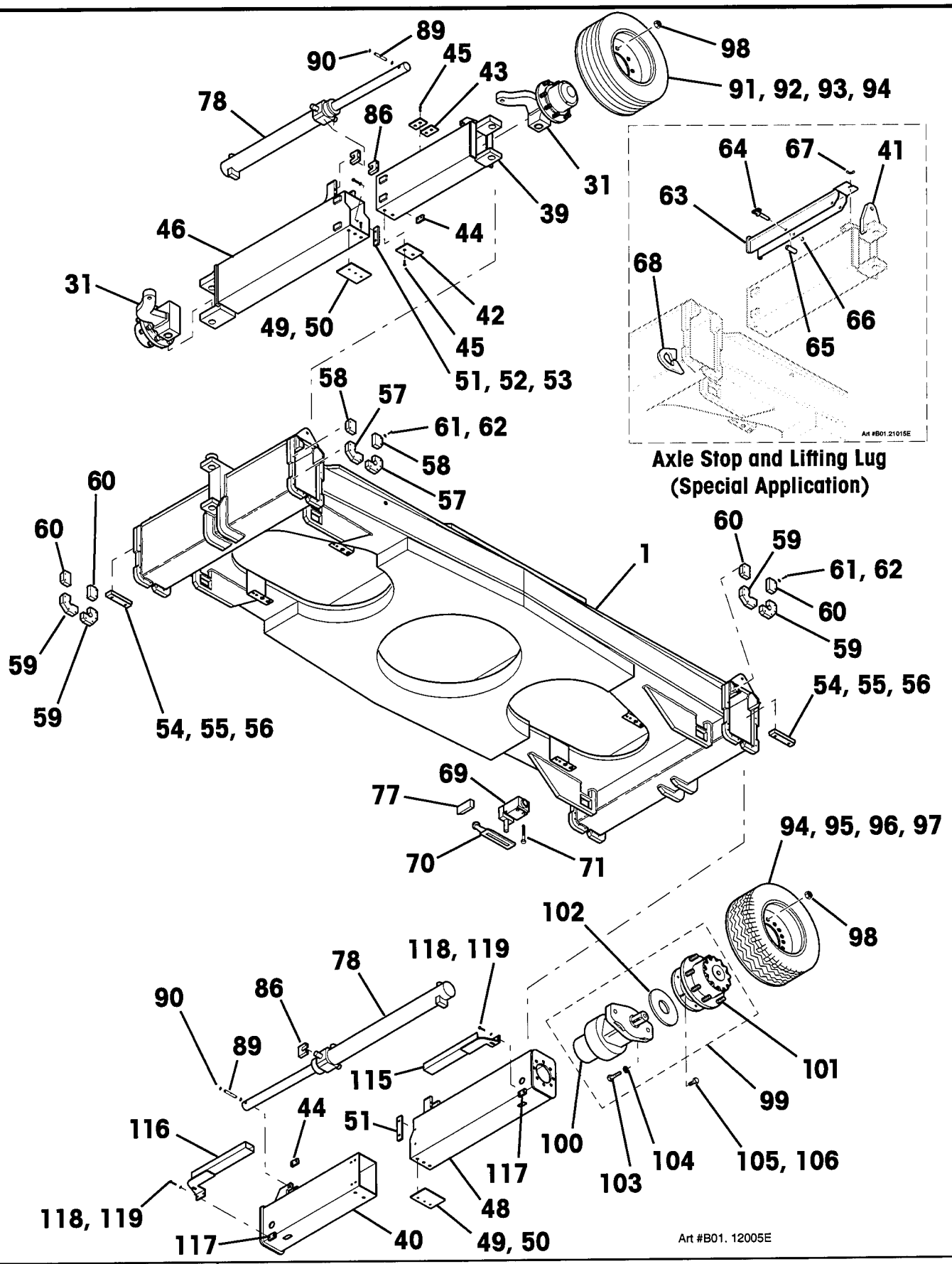
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 20 | 209 1367 | | TIE ROD (outer) | 2 |
| 21 | 209 1358 | | TIE ROD (inner) | 2 |
| 22 | 08-016800 | | END, TIE ROD (Right hand thread) (includes grease fitting) | 2 |
| 23 | 08-016900 | | END, TIE ROD (Left hand thread) (includes grease fitting) | 2 |
| 24 | 08-053100 | | FITTING, GREASE (1/4"-28, Straight) | 4 |
| 25 | 07-090004 | | NUT, JAM (1-1/4"-12, Right hand thread) | 2 |
| 26 | 07-090005 | | NUT, JAM (1-1/4"-12, Left hand thread) | 2 |
| 27 | 07-080001 | | PIN, HITCH (3/4" x 3") | 2 |
| 28 | 07-090008 | | CAP SCREW, HEX HEAD (1"-8 x 3-1/2", Grade 8) | 2 |
| 29 | 07-090009 | | CAP SCREW, HEX HEAD (1"-8 x 5", Grade 8) | 2 |
| 30 | 07-090011 | | NUT, TOP LOCK (1"-8) | 2 |
| 31 | See plate . . | C01. - - | SPINDLE ASSEMBLY (for two-wheel drive) | 2 |
| 32 | 08-014100 | | WASHER, THRUST (1-1/2" I.D., 3-1/2" O.D.) | 4 |
| 33 | 214 2180 | | RETAINER, STEER SPINDLE THRUST WASHER | 4 |
| 34 | 209 1419 | | PIN, SPINDLE (1-1/2" dia. x 14-5/16" long) | 2 |
| 35 | 07-004102 | | CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 8) | 2 |
| 36 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 2 |
| 37 | 08-040900 | | RING, RETAINING (1-1/2") | 4 |
| 38 | 08-051300 | | FITTING, GREASE (1/4"-28, 90°) | 4 |
| 39 | | | TUBE ASSEMBLY, STEER AXLE (inner) | 1 |
| | 209 1176 | | without lifting lug (Standard version) | |
| | 233 9840 | | with lifting lug (Special application. See Item 41) | |
| 40 | | | TUBE ASSEMBLY, NON STEER AXLE (inner) | 1 |
| | 214 2040 | | without lifting lug (Standard version) | |
| | 233 1330 | | with lifting lug (Special application. See Item 41) | |
| 41 | 233 1180 | | LUG, LIFTING (Welded to axle tubes. Special application) | 4 |
| 42 | 209 1329 | | PLATE, INNER AXLE TUBE WEAR (lower) | 2 |
| 43 | 213 0340 | | PLATE, INNER AXLE TUBE WEAR (upper) (earlier versions) | 4 |
| | 230 2270 | | BEARING PAD AND STOP (inner axle) (later versions) | 8 |
| 44 | 209 1279 | | PLATE, INNER AXLE TUBE WEAR (side) | 4 |
| 45 | 07-090069 | | CAP SCREW, FLAT HEAD (1/2"-13 x 1", Grade 5) (earlier versions) | 12 |
| | 07-090035 | | CAP SCREW, FLAT HEAD (1/2"-13 x 1-1/2", Grade 5) (later versions) | 16 |
| 46 | | | TUBE ASSEMBLY, STEER AXLE (outer) | 1 |
| | 209 1181 | | without lifting lug (Standard version) | |
| | 233 9860 | | with lifting lug (Special application. See Item 41) | |
| 47 | 08-014000 | | BEARING, SLEEVE (Bronze) (1-1/2" I.D., 1-3/4" O.D., 1-1/2" long) | 6 |
| 48 | | | TUBE ASSEMBLY, NON STEER AXLE (outer) | 1 |
| | 214 2020 | | without lifting lug (Standard version) | |
| | 233 1320 | | with lifting lug (Special application. See Item 41) | |

TITLE: UNDERCARRIAGE ASSEMBLY (2WD)

SECTION B01. | PLATE NO. 12 | PAGE 02 | REV. A | DATED 10 OCT., 1996 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172




| | | | | | | |
|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE | UNDERCARRIAGE ASSEMBLY (2WD) | | | | |
| | PART NO. | REV. A | DATED 10 OCT., 1996 | SECTION B01. | PLATE NO. 12 | PAGE 02 |

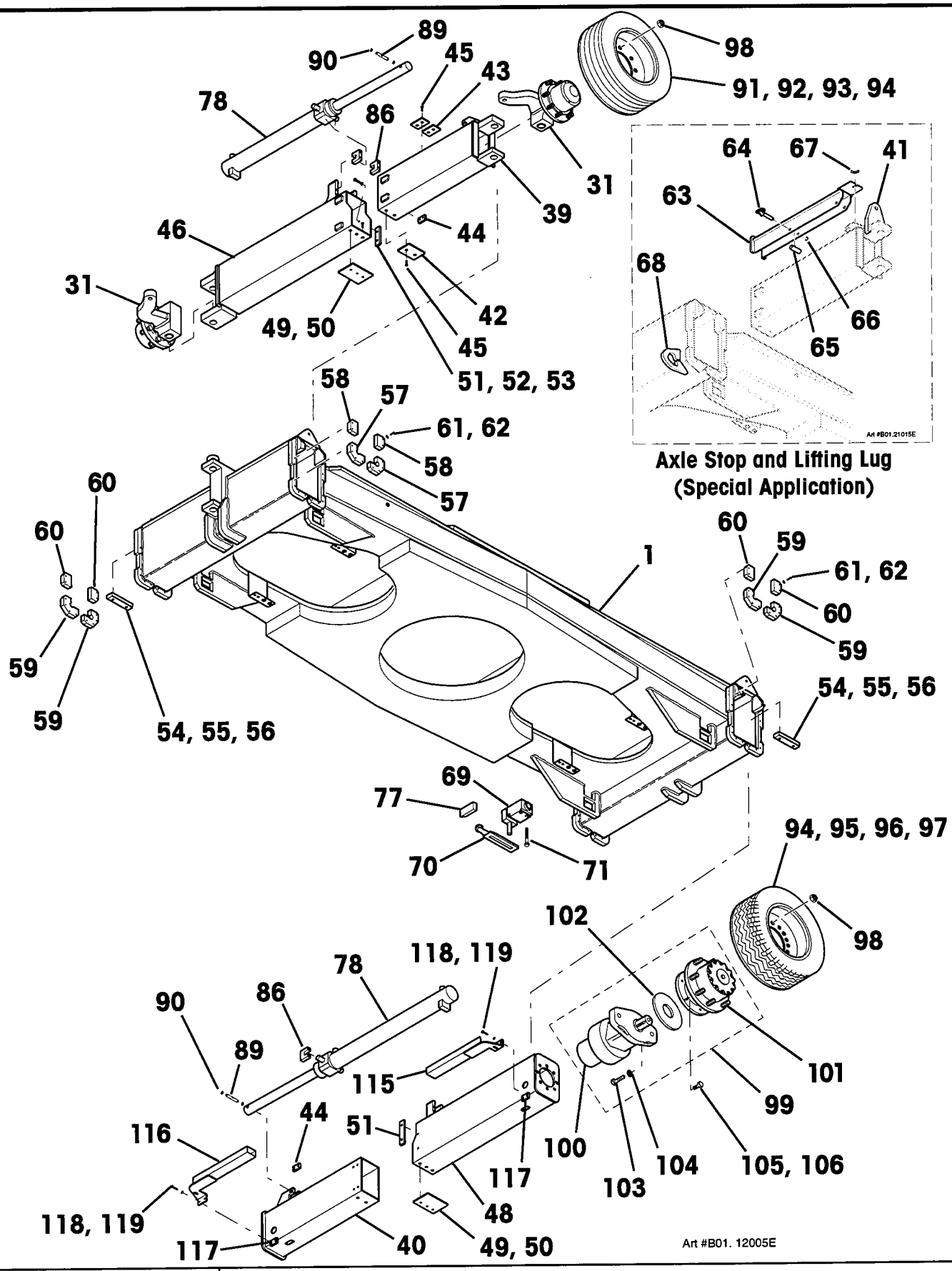
## PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 49 | 209 1334 | | PLATE, OUTER AXLE TUBE WEAR (lower) | 2 |
| 50 | 07-090069 | | CAP SCREW, FLAT HEAD (1/2"-13 x 1", Grade 5) | 6 |
| 51 | 209 1297 | | PLATE, OUTER AXLE TUBE WEAR (side) | 2 |
| 52 | 07-003085 | | CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5) (to attach side wear plates. Grind flush after installation) | 4 |
| 53 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 54 | 209 1284 | | STOP BAR, OUTER AXLE TUBE (upper) | 2 |
| 55 | 07-004154 | | CAP SCREW, HEX HEAD (3/4"-10 x 3-1/4", Grade 8) (to attach stop bar to undercarriage) | 4 |
| 56 | 07-065022 | | WASHER, HELICAL LOCK (3/4") | 4 |
| 57 | 209 0922 | | RETAINER, AXLE (inner tube lower) (Drill at assembly) without lifting lug (4 for std version, 2 when lifting lugs are fitted.) | |
| | 234 4020 | | with lifting lug (Two required for special application. See Item 41) | |
| 58 | 209 0940 | | RETAINER, AXLE (inner tube upper) (Drill at assembly) | 4 |
| 59 | | | RETAINER, AXLE (outer tube lower) (Drill at assembly) | |
| | 209 0870 | | without lifting lug (Four required for standard version, two needed when lifting lugs are fitted.) | |
| | 234 4010 | | with lifting lug (Two required for special application. See Item 41) | |
| 60 | 209 0937 | | RETAINER, AXLE (outer tube upper) (Drill at assembly) | 4 |
| 61 | 07-004133 | | CAP SCREW, HEX HEAD (5/8"-11 x 3", Grade 8) | 48 |
| 62 | 07-065021 | | WASHER, HELICAL LOCK (5/8") | 48 |
| 63 | 233 1260 | | STOP/ COVER, AXLE CYLINDER (special application) | 2 |
| 64 | Call Simon | | PIN, HITCH (Axle extend stop retaining) | 4 |
| 65 | 233 1370 | | TUBE, HITCH PIN COVER | 4 |
| 66 | Call Simon | | RING, RETAINING | 4 |
| 67 | Call Simon | | NUT, WING | 4 |
| 68 | 233 3400 | | LUG, TIE DOWN (special application) | 4 |
| 69 | 03-493800 | | SWITCH, LIMIT (side rotary) (2 normally open, 2 normally closed contacts) | 4 |
| 70 | | | ARM, LIMIT SWITCH | 4 |
| | 03-494300 | | Fixed roller, 2-1/2" length (earlier version) | |
| | 03-494200 | | Adjustable roller, 1" to 3-3/4" length (current version) | |
| 71 | 07-008354 | | CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8) | 8 |
| 72 | 03-041000 | | GRIP, CORD (1/2", with .38" to .44" seal) | 4 |
| 73 | 03-085700 | | CABLE, ELECTRICAL (SJO, 4 conductor, #16 AWG) (Bulk item. 44 ft [13.4 m] required this application) | A.R. |
| 74 | 10-060600 | | CLAMP (3/8") | 8 |
| 75 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 6 |
| 76 | 07-062014 | | WASHER, FLAT (1/4") | 6 |

TITLE: UNDERCARRIAGE ASSEMBLY (2WD)

SECTION B01. | PLATE NO. 12 | PAGE 03 | REV. A | DATED 10 OCT., 1996 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172




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|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE | UNDERCARRIAGE ASSEMBLY (2WD) | | | | |
| | PART NO. | REV. A | DATED 10 OCT., 1996 | SECTION B01. | PLATE NO. 12 | PAGE 03 |

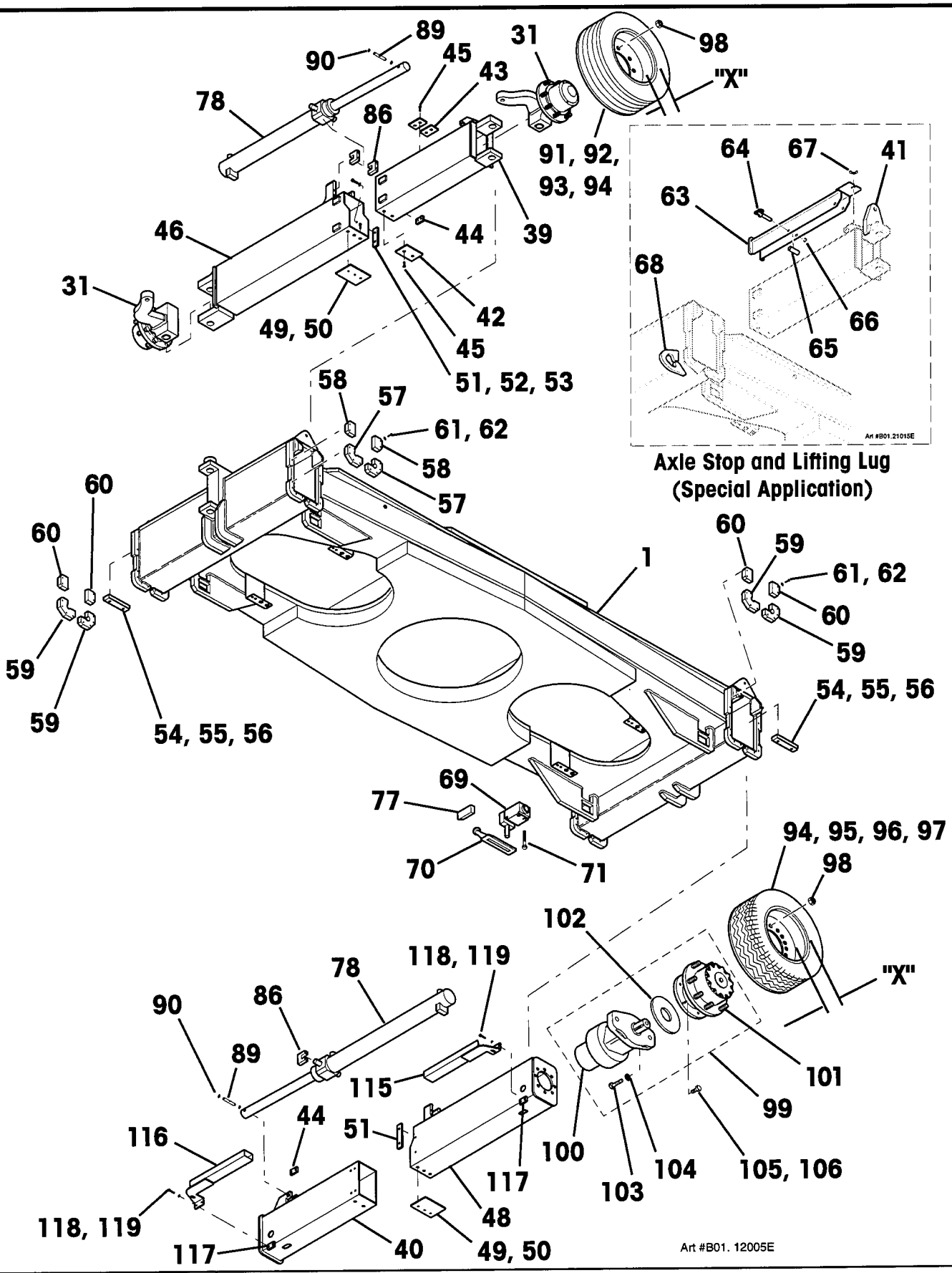
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 77 | 211 4480 | | BLOCK, LIMIT SWITCH ACTUATOR (must be welded to axle tube) | 4 |
| 78 | See index | D22. - - | CYLINDER, AXLE EXTEND | 2 |
| 79 | 06-044600 | | 90° ELBOW, "O"-RING TO 37° (6 C5OX-S) | 4 |
| 80 | 234 2470 | | TUBE ASSEMBLY, HYDRAULIC | 2 |
| 81 | 06-015000 | | UNION (6 HTX-S) | 2 |
| 82 | 205 4670 | | CLAMP, HOSE (2 hole, #4) | 2 |
| 83 | 07-040015 | | NUT, HEX (5/16"-18, Grade 5) | 2 |
| 84 | 07-065015 | | WASHER, HELICAL LOCK (5/16") | 2 |
| 85 | 07-062015 | | WASHER, FLAT (5/16") | 2 |
| 86 | 209 0977 | | RETAINER, AXLE EXTEND CYLINDER (Trunnion mount) | 4 |
| 87 | 07-003092 | | CAP SCREW, HEX HEAD (1/2"-13 x 2-3/4", Grade 5) | 8 |
| 88 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 8 |
| 89 | 209 1400 | | PIN, AXLE CYLINDER (rod end) (1" dia. x 3-3/4" long) | 2 |
| 90 | 08-040600 | | RING, RETAINING (1") | 4 |
| 91 | | | TIRE AND WHEEL ASSEMBLY, STEER | 2 |
| | 350 9180 | | Liquid filled | |
| | 351 2060 | | Foam filled | |
| 92 | 02-003700 | | TIRE (15-22.5, 16 Ply, Tubeless, non-directional tread) | 1 |
| 93 | 202 9704 | | WHEEL ASSEMBLY (22.5" x 12-1/4") | 1 |
| 92 | 02-038600 | | TIRE, NON MARKING (Optional 12" x 20" solid tire) | 2 |
| 93 | | | WHEEL ASSEMBLY (Two piece, 20" x 8", for optional solid tire only) | 2 |
| | 219 6870 | | Earlier version (wheel offset dimension "X" = 7.5" [190 mm]) | |
| | 02-043900 | | Current version (wheel offset dimension "X" = 6.5" [165 mm]) | |
| 94 | 02-047000 | | TUBE, INNER (optional with liquid filled tires) | 2 |
| 95 | | | TIRE AND WHEEL ASSEMBLY, DRIVE | 2 |
| | 351 1440 | | Liquid filled | |
| | 351 2050 | | Foam filled | |
| 96 | 02-003600 | | TIRE (15-22.5, 16 Ply, Tubeless, directional tread) | 1 |
| 97 | 202 9704 | | WHEEL ASSEMBLY (22.5" x 12-1/4") | 1 |
| 96 | 02-038600 | | TIRE, NON MARKING (Optional 12" x 20" solid tire) | 2 |
| 97 | | | WHEEL ASSEMBLY (Two piece, 20" x 8", for optional solid tire only) | 2 |
| | 219 6870 | | Earlier version (wheel offset dimension "X" = 7.5" [190 mm]) | |
| | 02-043900 | | Current version (wheel offset dimension "X" = 6.5" [165 mm]) | |

TITLE: UNDERCARRIAGE ASSEMBLY (2WD)

SECTION B01. | PLATE NO. 12 | PAGE 04 | REV. A | DATED 10 OCT., 1996 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172







**Axle Stop and Lifting Lug (Special Application)**

| | | | | | | |
|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE | UNDERCARRIAGE ASSEMBLY (2WD) | | | | |
| | PART NO. | REV. A | DATED 10 OCT., 1996 | SECTION B01. | PLATE NO. 12 | PAGE 04 |

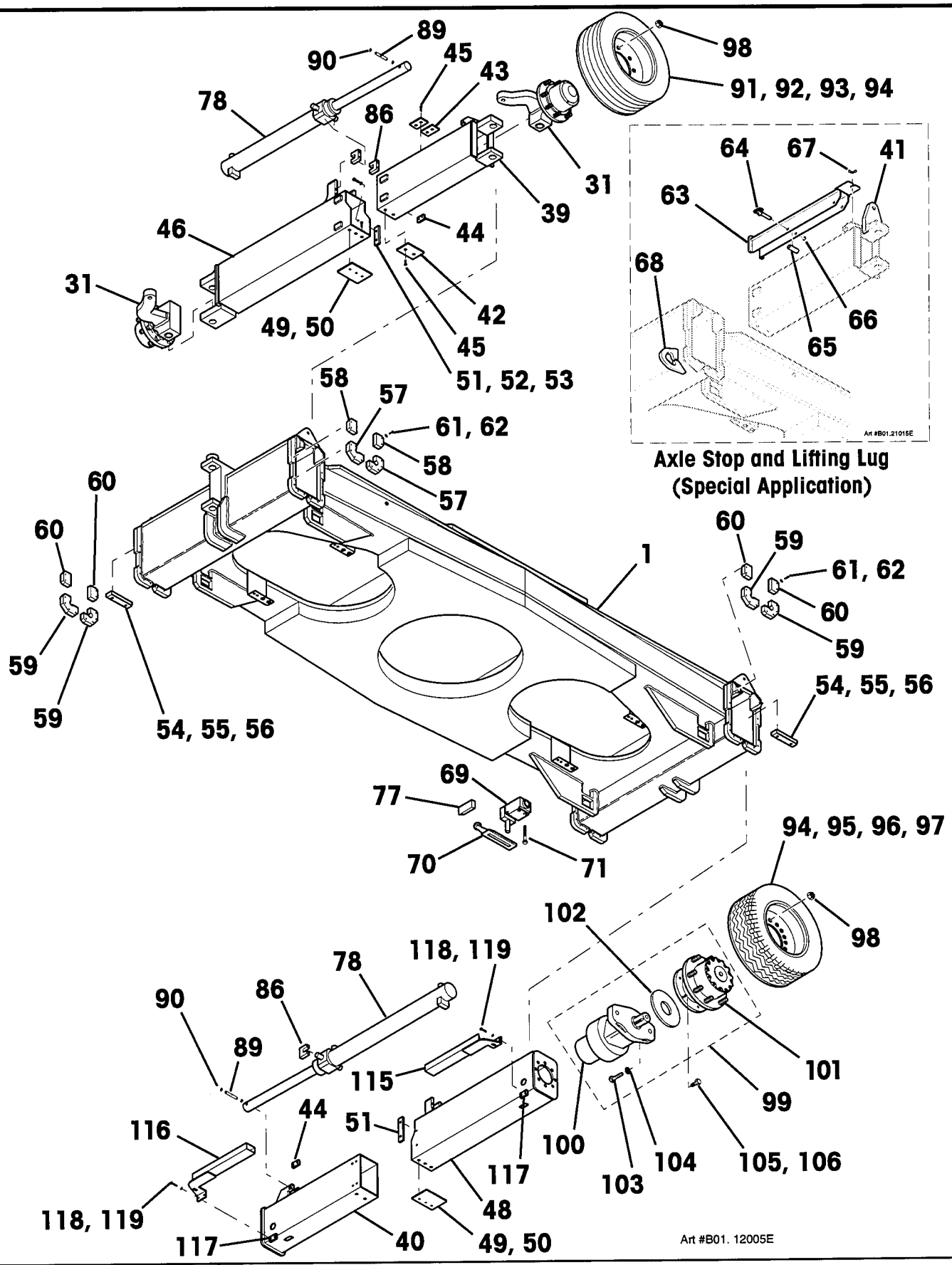
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 98 | 07-058123 | | NUT, FLANGED (Self locking) (3/4"-16, Grade 5) | 40 |
| 99 | | | DRIVE HUB ASSEMBLY | 2 |
| | 351 0540 | | for Two-Wheel Drive versions | |
| | 351 7670 | | for Four-Wheel Drive versions | |
| 100 | See index | D03. - - | MOTOR, HYDRAULIC | 1 |
| 101 | See index | F01. - - | HUB, TORQUE | 1 |
| 102 | 01-030900 | | SEAL | 1 |
| 103 | 07-003087 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5) | 2 |
| 104 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 2 |
| 105 | 07-004128 | | CAP SCREW, HEX HEAD (5/8"-11 x 1-3/4", Grade 8) | 16 |
| 106 | 07-061021 | | WASHER, FLAT (5/8", hardened) (some versions) | 16 |
| | 07-065021 | | WASHER, HELICAL LOCK (5/8") (some versions) | 16 |
| 107 | 06-040800 | | ADAPTER, "O"-RING TO 37° (12 F5OX-S) | 4 |
| 108 | 06-043000 | | ADAPTER (LONG), "O"-RING TO 37° (6 FF5OX-S) | 2 |
| 109 | 06-039300 | | ADAPTER, "O"-RING TO 37° (4 F5OX-S) | 2 |
| 110 | 214 1980 | | TUBE, HYDRAULIC (Drive motor, right) (not shown) | 1 |
| 111 | 214 1990 | | TUBE, HYDRAULIC (Drive motor, left) (not shown) | 1 |
| 112 | 07-003037 | | CAP SCREW, HEX HEAD (5/16"-18 x 4-1/2") | 4 |
| 113 | 07-062015 | | WASHER, FLAT (5/16") | 8 |
| 114 | 07-050015 | | NUT, STOP (5/16"-18) | 4 |
| 115 | 214 2270 | | CARRIER, HOSE (non-steer axle, left) | 1 |
| 116 | 214 2280 | | CARRIER, HOSE (non-steer axle, right) | 1 |
| 117 | 209 1486 | | FLAT, DRIVE HOSE CARRIER (must be welded to drive tubes) | 2 |
| 118 | 07-003086 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5) | |
| | | | (to attach hose carriers) | 4 |
| 119 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 120 | 06-033800 | | 90° ELBOW, BULKHEAD UNION (12 WETX-S) | 2 |
| 121 | 217 6990 | | WASHER (modified Fender Washer 10-002600, 1/2" I.D., 2" O.D.) | 2 |

TITLE: UNDERCARRIAGE ASSEMBLY (2WD)

SECTION B01. | PLATE NO. 12 | PAGE 05 | REV. A | DATED 10 OCT., 1996 | PART NO.

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Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
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**Axle Stop and Lifting Lug (Special Application)**

| | | | | | | |
|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE | UNDERCARRIAGE ASSEMBLY (2WD) | | | | |
| | PART NO. | REV. A | DATED 10 OCT., 1996 | SECTION B01. | PLATE NO. 12 | PAGE 05 |

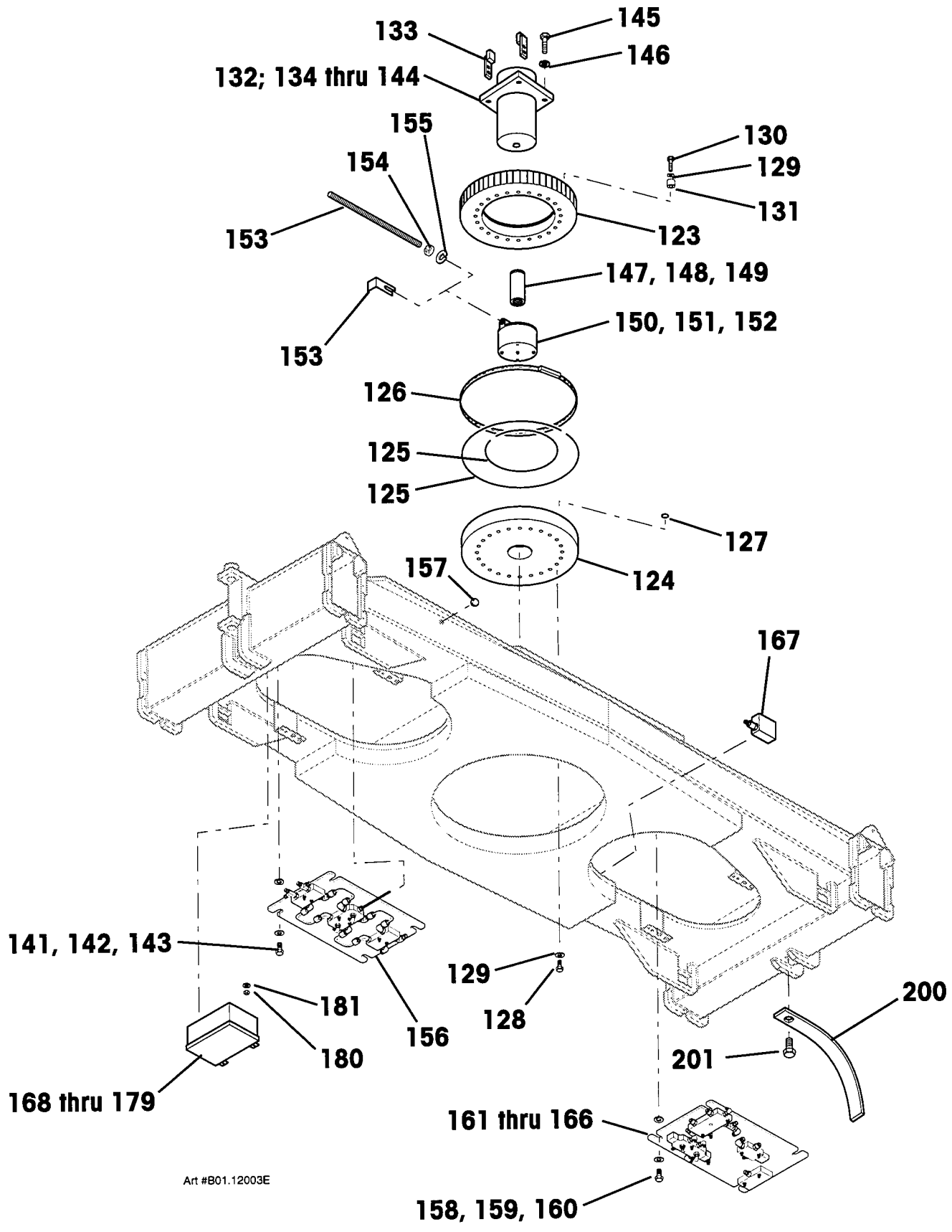
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 122 | 06-051800 | | 90° ELBOW, SWIVEL NUT (12 C6X-S) | 1 |
| 123 | 08-015000 | | SWING BEARING | 1 |
| 124 | 208 8419 | | PAN, SWING BEARING OIL | 1 |
| 125 | 10-005500 | | SEAL, BEARING (Bulk item, order as needed. 17 Ft [5.2 M] used in this application) | A.R. |
| 126 | 09-047600 | | CLAMP KIT, SEAL (1/2" wide stainless steel, with hardware) (50 Ft [15.2 M] in kit is sufficient for two applications) | A.R. |
| 127 | 01-040400 | | "O"-RING | 18 |
| 128 | | | CAP SCREW, HEX HEAD (Swing bearing to undercarriage) | |
| | 07-004160 | | some earlier versions (3/4"-10 x 6-1/2", Grade 8) | 18 |
| | 07-004162 | | current versions (3/4"-10 x 6", Grade 8) | 18 |
| 129 | 07-061022 | | WASHER, FLAT (Hardened, 3/4" SAE) | 49 |
| 130 | | | CAP SCREW, HEX HEAD (Swing bearing to superstructure) | |
| | 07-004158 | | (3/4"-10 x 4-1/2", Grade 8) | 20 |
| | 07-004162 | | (3/4"-10 x 6", Grade 8) | 11 |
| 131 | 209 3349 | | SPACER | 11 |
| 132 | See index | D02. - - | SWIVEL, HYDRAULIC | 1 |
| 133 | 210 1030 | | STOP, SWIVEL | 2 |
| | | | **Port 1, Hydraulic Swivel bottom section:** | |
| 134 | 06-041100 | | ADAPTER, "O"-RING TO 37° (12-16 F5OX-S) | 1 |
| | | | **Port 2, bottom section:** | |
| 135 | 06-045600 | | 90° ELBOW, "O"-RING TO 37° (12-16 C5OX-S) | 1 |
| | | | **Port 3, bottom section:** | |
| 136 | 06-050100 | | BRANCH TEE, MALE "O"-RING (8 S5OX-S) | 1 |
| 137 | 06-054600 | | RUN TEE, 37° FEMALE SWIVEL NUT (8 R6X-S) | 2 |
| 138 | 06-051600 | | 90° ELBOW, SWIVEL NUT (8 C6X-S) | 1 |
| | | | **Ports 4, 5 and 6, bottom section:** | |
| 139 | 06-044700 | | 90° ELBOW, "O"-RING TO 37° (6-8 C5OX-S) | 3 |
| | | | **Ports 1 and 2, Hydraulic Swivel top section:** | |
| 140 | 06-091900 | | REDUCER/ EXPANDER (16-12 F5O G5-S) | 2 |
| 141 | 06-047400 | | 45° ELBOW, "O"-RING TO 37° (12 V5OX-S) | 2 |
| | | | **Port 3, top section:** | |
| 142 | 06-047100 | | 45° ELBOW, "O"-RING TO 37° (8 V5OX-S) | 1 |
| | | | **Ports 4, 5 and 6, top section:** | |
| 143 | 06-090600 | | REDUCER/ EXPANDER (8-6 F5O G5-S) | 2 |
| 144 | 06-047000 | | 45° ELBOW, "O"-RING TO 37° (6 V5OX-S) | 1 |
| 145 | 07-003087 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5) | 4 |
| 146 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 147 | 06-071400 | | REDUCER, PIPE THREAD (12-8 PTR) | 1 |
| 148 | 11-020010 | | NIPPLE, PIPE | 1 |

TITLE: UNDERCARRIAGE ASSEMBLY (2WD)

SECTION B01. | PLATE NO. 12 | PAGE 06 | REV. A | DATED 10 OCT., 1996 | PART NO.

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TITLE: UNDERCARRIAGE ASSEMBLY (2WD)

| PART NO. | REV. | DATED | SECTION | PLATE NO. | PAGE |
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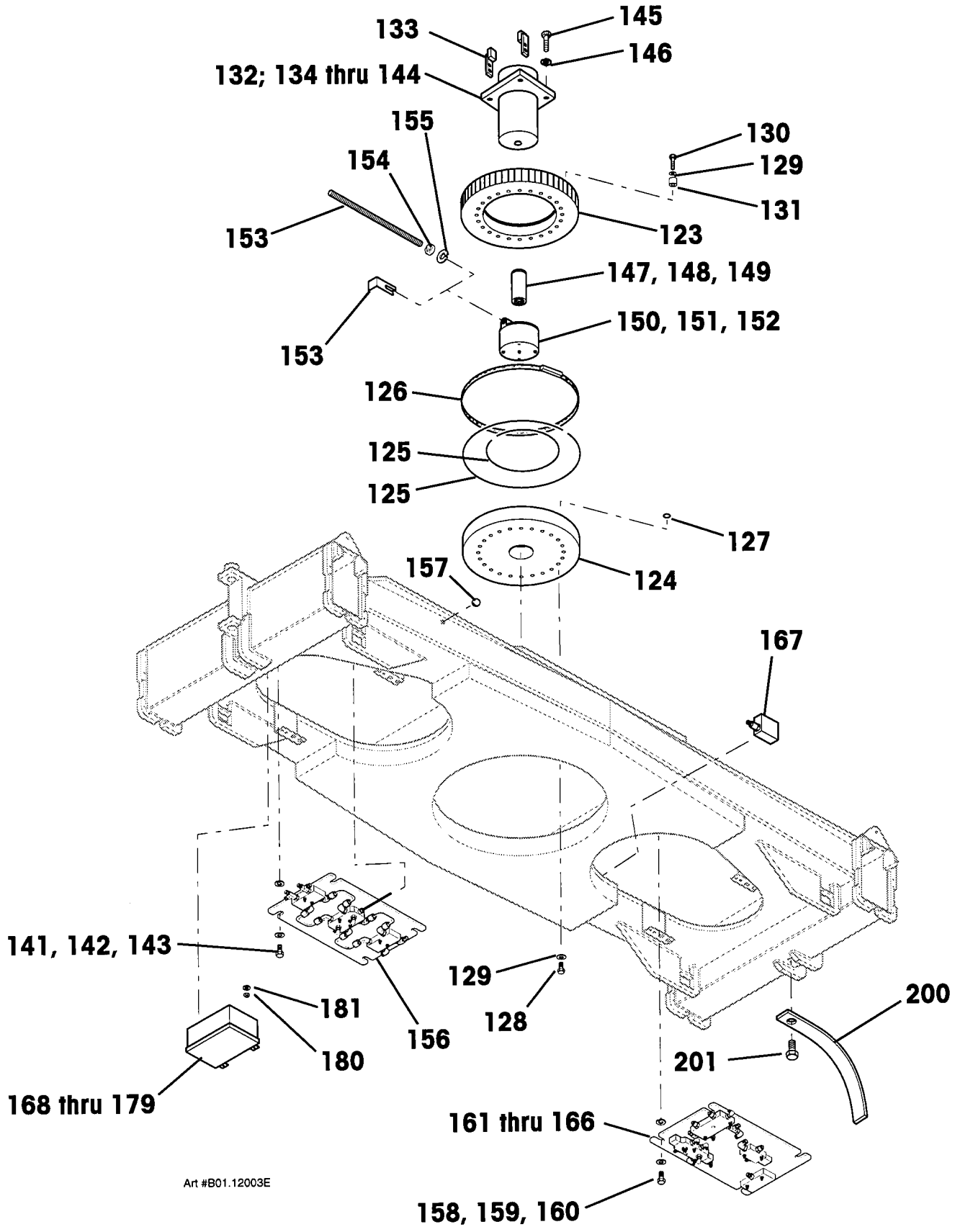
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 149 | 206 7559 | | ADAPTER, HYDRAULIC TO ELECTRICAL SWIVEL | 1 |
| 150 | | | SWIVEL ASSEMBLY, ELECTRICAL | 1 |
| | 03-438500 | | 6 circuit (current version) | |
| | 03-038200 | | 4 circuit (Older version, no longer available. Use 03-438500) | |
| 151 | | | GRIP, CORD | 1 |
| | 03-501700 | | 90°, with .50" to .63" seal (optional with 03-501600) | |
| | 03-501600 | | 3/4", 90°, for 5/8" O.D. cable (optional with 03-501700) | |
| 152 | 03-447600 | | CABLE, ELECTRICAL (6 conductor, #16 AWG) | |
| | | | (Bulk item. 27 ft [7.9 m] required this application) | A.R. |
| 153 | 207 0746 | | LOCK, ELECTRICAL SWIVEL (some earlier units) | 1 |
| | 11-007006 | | ROD, THREADED (1/2"-13 x 18" long) (on later units) | 1 |
| 154 | 07-040018 | | NUT, HEX (1/2"-13, Grade 5) | 1 |
| 155 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 1 |
| 156 | 351 6830 | C12.01 | SELECTOR VALVE ASSEMBLY (Steer/ Axle extend) | 1 |
| 157 | 10-042400 | | KNOB, BALL (Plastic) | 1 |
| 158 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 8 |
| 159 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 4 |
| 160 | 07-062016 | | WASHER, FLAT (3/8") | 16 |
| 161 | See plate . . | | VALVE ASSEMBLY, DRIVE | 1 |
| | | C12.02 | for standard versions **without** optional 2 speed drive | |
| | | C12.03 | for 2 wheel drive versions **with** optional 2 speed drive | |
| 162 | 06-033300 | | 90° ELBOW, BULKHEAD UNION (4 WETX-S) | 2 |
| 163 | 06-033500 | | 90° ELBOW, BULKHEAD UNION (6 WETX-S) | 2 |
| 164 | 06-033800 | | 90° ELBOW, BULKHEAD UNION (12 WETX-S) | 4 |
| 165 | 06-054300 | | RUN TEE, 37° FEMALE SWIVEL NUT (4 R6X-S) | 1 |
| 166 | 06-051300 | | 90° ELBOW, SWIVEL NUT (4 C6X-S) | 1 |
| 167 | 01-011400 | | VALVE, CARTRIDGE RELIEF | 1 |
| 168 | 352 0350 | | JUNCTION BOX ASSEMBLY, LIMIT SWITCH | 1 |
| 169 | 216 1190 | | BOX, JUNCTION (8" x 6" x 3-1/2") (203 x 152 x 89 mm) | 1 |
| 170 | 216 1200 | | SUBPLATE | 1 |
| 171 | 03-066200 | | BLOCK, TERMINAL (25 Amp, for 12 Ga. wire) | 13 |
| 172 | 03-039100 | | BLOCK, TERMINAL (Grounding, for 12 Ga. wire) | 3 |
| 173 | 03-066100 | | END PLATE, TERMINAL BLOCK | 1 |
| 174 | 03-051700 | | RAIL, CARRIER | 1 |
| 175 | 03-037200 | | GRIP, CORD (5/8", with .56" to .62" seal) | 5 |
| 176 | 03-041000 | | GRIP, CORD (1/2", with .38" to .44" seal) | 5 |
| 177 | 03-045500 | | GRIP, CORD (1/2", with .31" to .38" seal)) | 1 |
| 178 | 03-055500 | | NUT, CONDUIT LOCK (1/2") | 6 |
| 179 | 07-090063 | | WASHER, EXTERNAL TOOTH LOCK (#6) | 2 |
| 180 | 07-040014 | | NUT, HEX (1/4"-20, Grade 5) | 4 |

TITLE: UNDERCARRIAGE ASSEMBLY (2WD)

SECTION B01. | PLATE NO. 12 | PAGE 07 | REV. A | DATED 10 OCT., 1996 | PART NO.

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| | | | | | | |
|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE | UNDERCARRIAGE ASSEMBLY (2WD) | | | | |
| | PART NO. | REV. A | DATED 10 OCT., 1996 | SECTION B01 | PLATE NO. 12 | PAGE 07 |

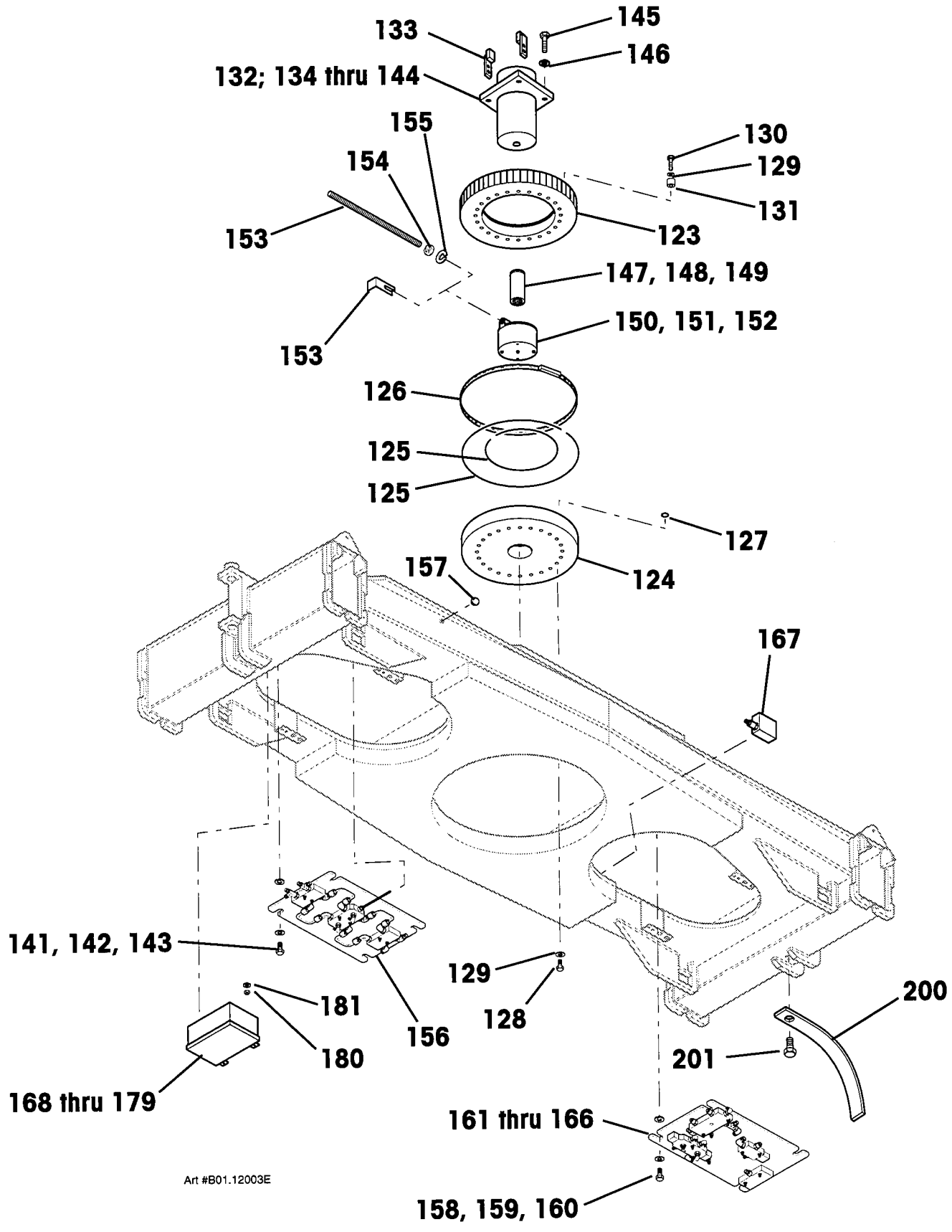
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 181 | 07-065014 | | WASHER, HELICAL LOCK (1/4") | 4 |
| 182 | | | HOSE KIT, 2WD UNDERCARRIAGE | 1 |
| | 352 0530 | | for versions built prior to July, 1995 | |
| | 354 4410 | | for versions built July, 1995 or later | |
| 183 | 03-088900 | | CABLE, ELECTRICAL (8 conductor, #16 AWG) | |
| | | | (Bulk item. 26 ft [7.9 m] required this application) | A.R. |
| 184 | 03-064700 | | TIE, CABLE (14-1/2" [37 cm] long) | 8 |
| 185 | 03-066400 | | TIE, CABLE (20" [51 cm] long) | 8 |
| 186 | 10-113000 | | PROTECTOR, HOSE (Rubber, 8" x 12" x 1/8") | 4 |
| 187 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 2 |
| 188 | 07-065014 | | WASHER, HELICAL LOCK (1/4") | 2 |
| 189 | 07-062014 | | WASHER, FLAT (1/4") | 2 |
| 190 | 10-060800 | | CLAMP (1/2") | 34 |
| | | | Items 174 through 179 are used only on versions with the | |
| | | | **two speed drive** option: | |
| 191 | | | VALVE, SOLENOID (High/ Low Drive) (not shown) | 1 |
| | 01-037100 | | 3-way valve | |
| | 01-230400 | | 4-way valve | |
| 192 | 06-003800 | | 90° ELBOW, MALE 37° TO NPT (6 CTX-S) | 2 |
| 193 | 06-000700 | | CONNECTOR, MALE (6 FTX-S) | 1 |
| 194 | 06-054500 | | RUN TEE, 37° SWIVEL NUT (6 R6X-S) | A.R. |
| 195 | 07-003010 | | CAP SCREW, HEX HEAD (1/4"-20 x 2-1/4", Grade 5) | 2 |
| 196 | 07-050014 | | NUT, HEX LOCK (1/4"-20, Grade 5) | 2 |
| | | | The following **optional** items are available: | |
| 197 | 10-042700 | | BOOT, STEER CYLINDER (not shown) | |
| | | | (3" I.D., 4-1/2" O.D., 10" long) | 1 |
| 198 | 09-008500 | | CLAMP, HOSE (3-1/2", worm type) | 1 |
| 199 | 09-008700 | | CLAMP, HOSE (4-1/2", worm type) | 1 |
| 200 | 03-472100 | | STRAP, GROUNDING (option) | 1 |
| 201 | 07-058400 | | NUT, LUG (1/2"-13, Grade 8) | 1 |

TITLE: UNDERCARRIAGE ASSEMBLY (2WD)

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TITLE: UNDERCARRIAGE ASSEMBLY (2WD)

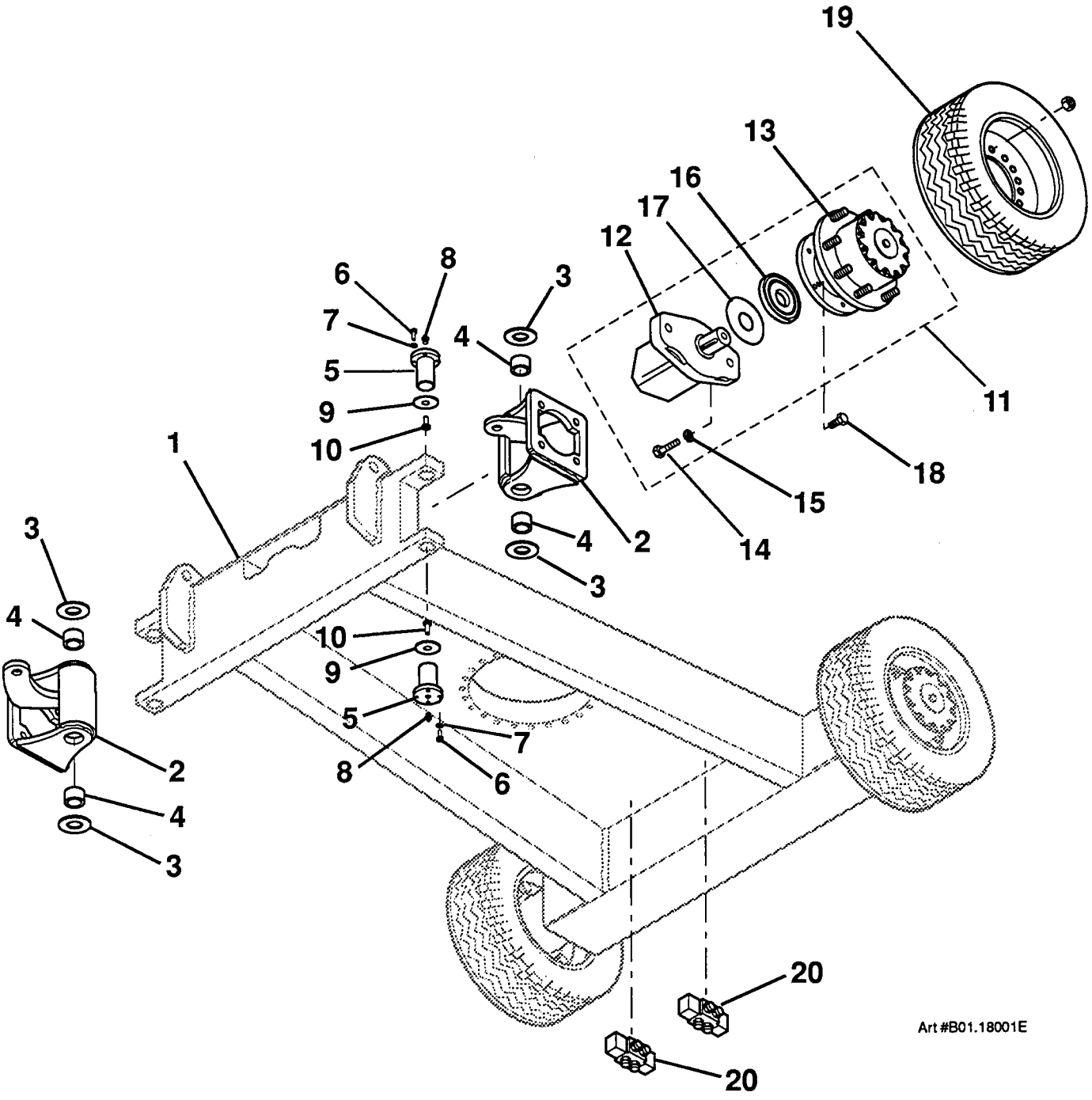
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# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | UNDERCARRIAGE WELDMENT | |
| | | | (For four-wheel drive. Replaces part shown on 2WD plate.) | 1 |
| 2 | 2024493 | | SPINDLE ASSEMBLY, FRONT DRIVE (Right hand) | 1 |
| | 2024507 | | SPINDLE ASSEMBLY, FRONT DRIVE (Left hand) | 1 |
| | | | (For four-wheel drive. Replaces part shown on 2WD plate.) | |
| 3 | 08-004200 | | WASHER, THRUST (2-1/32" i.d., 3-5/8" o.d.) | |
| | | | (For four-wheel drive. Replaces part shown on 2WD plate.) | 4 |
| 4 | 2010735 | | BEARING, SLEEVE (2-3/8" o.d. x 1-3/4" long) | 4 |
| 5 | 2014405 | | PIN, STEER | |
| | | | (For four-wheel drive. Replaces part shown on 2WD plate.) | 4 |
| 6 | 07-008046 | | CAP SCREW, SOCKET HEAD (3/8"-16 x 1-1/4", Grade 8) | 16 |
| 7 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 16 |
| 8 | 08-051300 | | FITTING, GREASE (1/8", 90°) | 4 |
| 9 | 2142180 | | RETAINER, STEER SPINDLE BUSHING | 2 |
| 10 | 07-007083 | | CAP SCREW, BUTTON HEAD (1/2"-13 x 3/4", Grade 5) | 2 |
| 11 | | | DRIVE HUB ASSEMBLY (steer wheels) | 2 |
| 12 | See Index | D03.-- | MOTOR, HYDRAULIC (without brake) | 1 |
| 13 | See Index | F01.-- | HUB, TORQUE | 1 |
| 14 | 07-003087 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5) | 2 |
| 15 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 2 |
| 16 | 01-030900 | | SEAL (used with torque hub having cast housing) | 1 |
| 17 | 2176980 | | SPACER (used with torque hub having cast housing) | 1 |
| 18 | 07-004087 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 8) | 12 |
| 19 | | | TIRE AND WHEEL ASSEMBLY, DRIVE | |
| | | | (refer to **drive wheel** shown on 2WD plate.) | 4 |
| 20 | 01-018100 | | VALVE, SELECTOR | 2 |
| | | | **Note:** Flow control valve (Needle valve) shown on 2WD Undercarriage page plate is not used with 2WD/ 4WD option. | |

TITLE TWO WHEEL/ FOUR-WHEEL DRIVE OPTION COMPONENTS, MP

PLATE NO. B01.18 | **SIMON AERIALS INC.** REV. 01/21/91 | PART NO.




TITLE TWO WHEEL/ FOUR-WHEEL DRIVE OPTION COMPONENTS, MP

**SIMON AERIALS INC.** REV. 01/21/91 | PART NO. | PLATE NO. B01.18

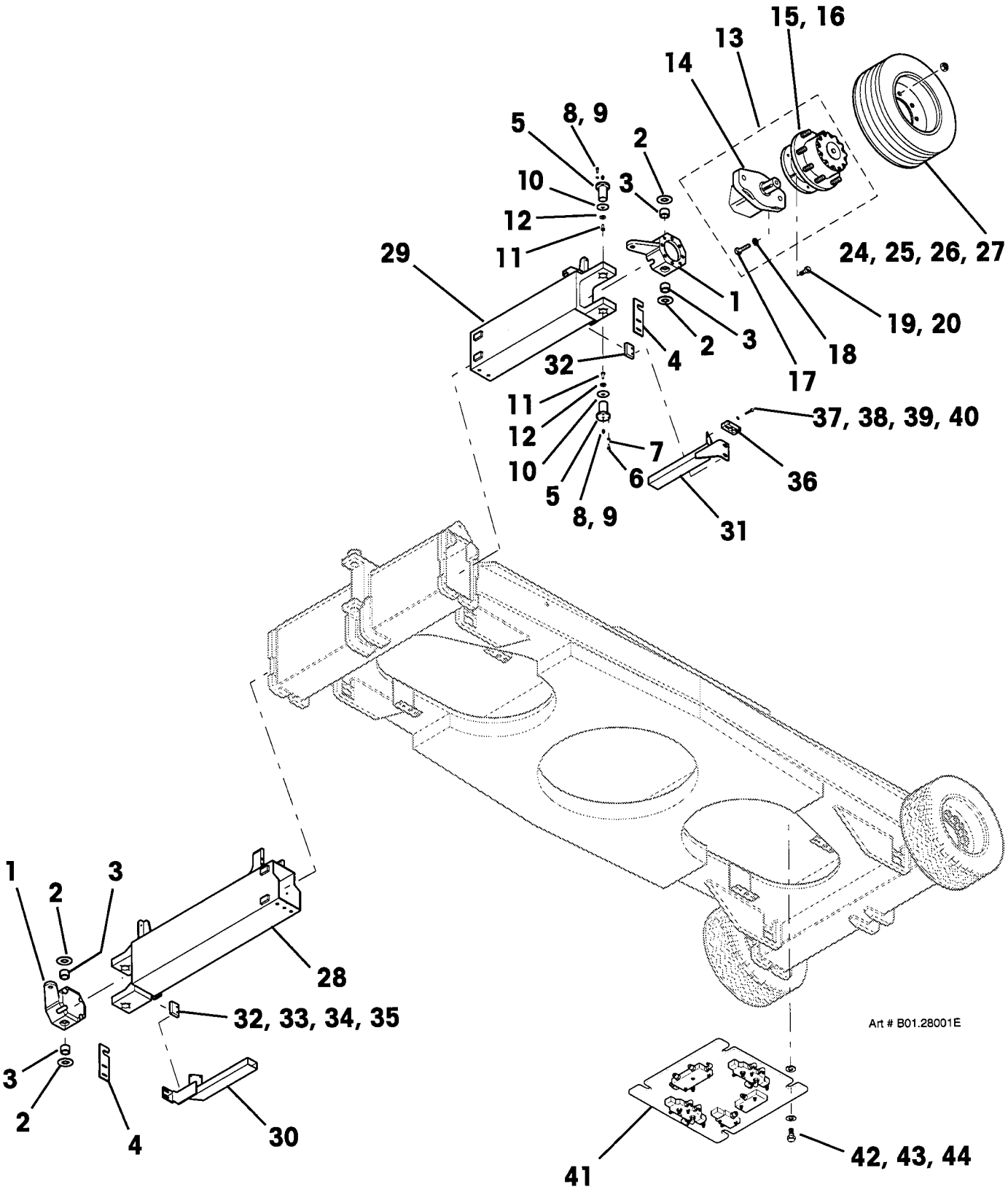
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | SPINDLE ASSEMBLY, FRONT DRIVE | 2 |
| | | | (for four-wheel drive. Replaces part shown on 2WD plate.) | |
| | 213 0590 | | Earlier version, **without** hose clamp bracket | |
| | 214 2730 | | Later version, **with** hose clamp bracket welded on | |
| 2 | 216 0130 | | WASHER, THRUST (2-1/2" I.D., 5" O.D.) | |
| | | | (for four-wheel drive. Replaces part shown on 2WD plate.) | 4 |
| 3 | 234 6830 | | BEARING, SLEEVE (2-1/2" I.D., 3" O.D., 1-3/4" long) | |
| | | | (modified 08-061600) | 4 |
| 4 | 217 2040 | | BRACKET, HOSE | 2 |
| 5 | | | PIN, STEER (for 4WD. Replaces part shown on 2WD plate.) | 4 |
| | 214 2740 | | earlier version | |
| | 213 0490 | | current version | |
| 6 | 07-008045 | | CAP SCREW, SOCKET HEAD (3/8"-16 x 1", Grade 8) | 16 |
| 7 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 16 |
| 8 | 08-051300 | | FITTING, GREASE (1/8", 90°) | 4 |
| 9 | 08-066300 | | CAP, GREASE FITTING (White plastic) | 4 |
| 10 | 214 2180 | | RETAINER, STEER SPINDLE BUSHING | 4 |
| 11 | 07-003085 | | CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5) . . . **or** . . . | 4 |
| | 07-017083 | | CAP SCREW, BUTTON HEAD (1/2"-13 x 3/4", Grade 5) | 4 |
| 12 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 13 | 351 5780 | | DRIVE HUB ASSEMBLY (steer wheels) | 2 |
| 14 | See index | D03.- - | MOTOR, HYDRAULIC (without brake) | 1 |
| 15 | See index | F01.- - | HUB, TORQUE | 1 |
| 16 | 01-030900 | | SEAL | 1 |
| 17 | 07-003087 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5) | 2 |
| 18 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 2 |
| 19 | 07-004128 | | CAP SCREW, HEX HD (5/8"-11 x 1-3/4", Grade 8) | 8 |
| 20 | 07-061021 | | WASHER, FLAT (5/8", SAE, hardened) | 8 |
| 21 | 06-039500 | | ADAPTER, "O"-RING TO 37° (4-6 F5OX-S) | 4 |
| 22 | 06-040800 | | ADAPTER, "O"-RING TO 37° (12 F5OX-S) | 2 |
| 23 | 235 5160 | | 90° ADAPTER, BENT STEM (modified 4 IT3-12-12) | 2 |
| 24 | | | TIRE AND WHEEL ASSEMBLY, DRIVE/ STEER | 2 |
| | 351 4800 | | Liquid filled | |
| | 351 4810 | | Foam filled | |
| 25 | 02-003600 | | TIRE (15-22.5, 16 Ply, Tubeless, directional tread) | 1 |
| 26 | 213 1830 | | WHEEL ASSEMBLY, DRIVE/ STEER (22.5" x 12-1/4") | 1 |
| 25 | 02-038600 | | TIRE, NON MARKING (Optional 12" x 20" solid tire) | 2 |
| 26 | | | WHEEL ASSEMBLY (Two piece, 20" x 8", for optional solid tire only) | 2 |
| | 219 6870 | | Earlier version (wheel offset dimension "X" = 7.5" [190 mm]) | |
| | 02-043900 | | Current version (wheel offset dimension "X" = 6.5" [165 mm]) | |

TITLE: FOUR-WHEEL DRIVE OPTION COMPONENTS, MP/ RP SERIES WITH EXTENDABLE AXLES

SECTION B01. | PLATE NO. 28 | PAGE 01 | REV. A | DATED 10 OCT., 1996 | PART NO.

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| | | | | | | |
|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE | FOUR-WHEEL DRIVE OPTION COMPONENTS, MP/ RP SERIES WITH EXTENDABLE AXLES | | | | |
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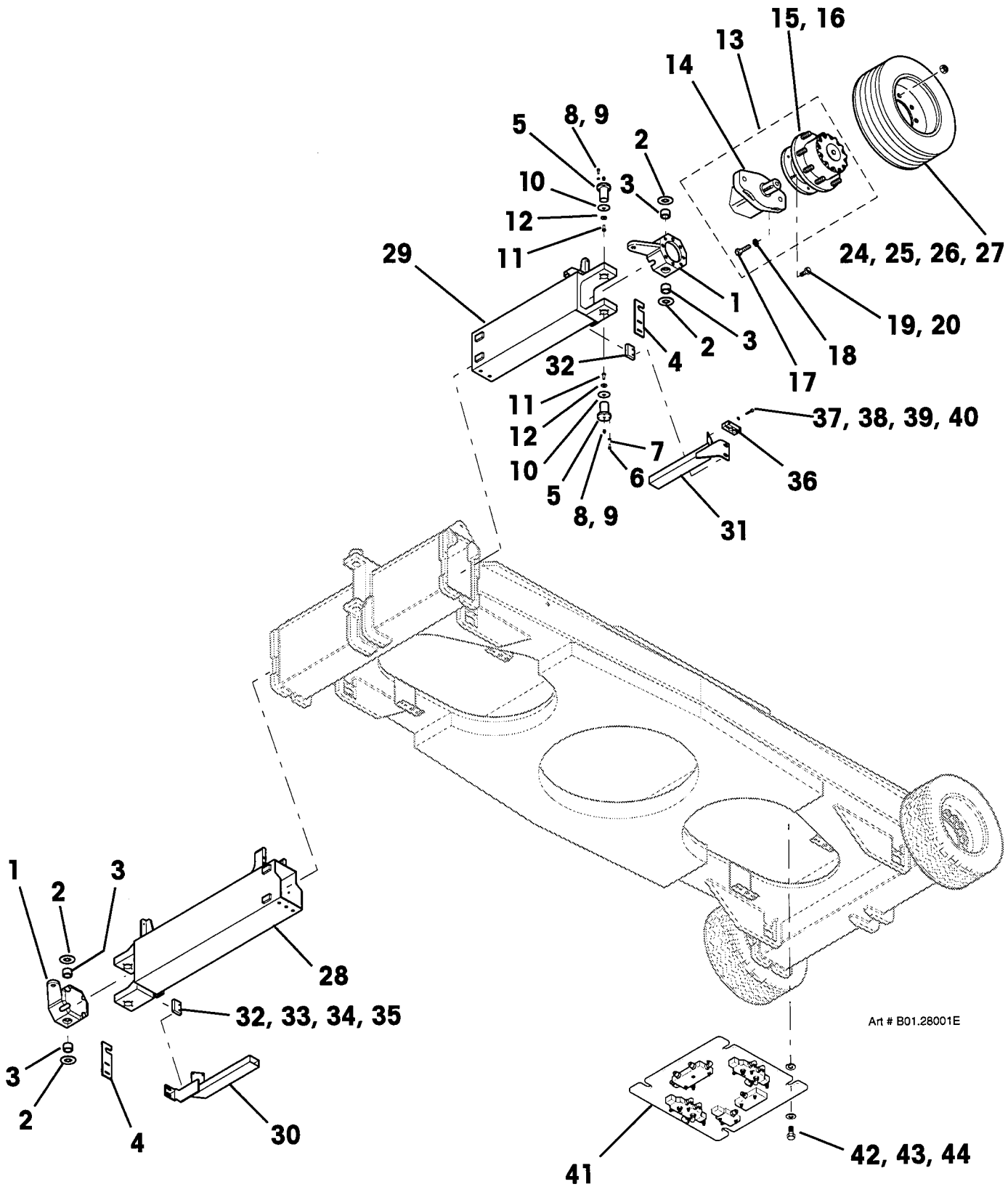
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 27 | 02-047000 | | TUBE, INNER (optional with liquid filled tires) | 2 |
| 28 | | | TUBE ASSEMBLY, STEER AXLE (outer) | 1 |
| | 214 2670 | | Standard version, without lifting lug | |
| | 233 1340 | | With lifting lug (special application) | |
| 29 | | | TUBE ASSEMBLY, STEER AXLE (inner) | 1 |
| | 214 2680 | | Standard version, without lifting lug | |
| | 233 1350 | | With lifting lug (special application) | |
| 30 | 217 2010 | | CARRIER, HOSE (inner) | 1 |
| 31 | 217 2020 | | CARRIER, HOSE (outer) | 1 |
| 32 | 216 1210 | | FLAT, STEER HOSE CARRIER (must be welded to steer axle tubes) | 2 |
| 33 | 07-003048 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-3/4", Grade 5) | 4 |
| 34 | 07-062016 | | WASHER, FLAT (3/8") | 8 |
| 35 | 07-050016 | | NUT, STOP (3/8"-16, Grade 5) | 4 |
| 36 | 216 8800 | | CLAMP, HOSE | 8 |
| 37 | 07-003037 | | CAP SCREW, HEX HEAD (5/16"-18 x 4-1/2", Grade 5) | 16 |
| 38 | 07-062015 | | WASHER, FLAT (5/16") | 32 |
| 39 | 07-065015 | | WASHER,HELICAL LOCK (5/16") | 16 |
| 40 | 07-040015 | | NUT, HEX (5/16"-18) | 16 |
| 41 | | | VALVE ASSEMBLY, DRIVE | 1 |
| | 352 2680 | C12.04 | for versions built prior to July, 1995 | |
| | 354 4500 | C12.04 | for versions built July, 1995 or later | |
| 42 | 07-040016 | | NUT, HEX (3/8"-16, Grade 5) | 4 |
| 43 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 4 |
| 44 | 07-062016 | | WASHER, FLAT (3/8") | 4 |
| 45 | 06-033500 | | 90° ELBOW, BULKHEAD UNION (6 WETX-S) | 2 |
| 46 | 06-033800 | | 90° ELBOW, BULKHEAD UNION (12 WETX-S) | 4 |
| | | | **The following parts are not illustrated:** | |
| 47 | | | HOSE KIT, 4WD UNDERCARRIAGE | 1 |
| | 352 2830 | | for versions built prior to July, 1995 | |
| | 354 4420 | | for versions built July, 1995 or later | |
| 48 | 354 4410 | | HOSE KIT, 4WD DRIVE AXLE | 1 |
| 49 | 03-064700 | | TIE, CABLE (14-1/2" [37 cm] long) | 8 |
| 50 | 10-113000 | | PROTECTOR, HOSE | |
| | | | (Rubber, 8" x 12" [203 mm x 305 mm] x 1/8" [3 mm] thick) | 4 |
| 51 | 10-150800 | | SLEEVE, PLASTIC COIL (3/4", heat resistant) | |
| | | | (Bulk item. 12 ft [3.66 m] needed here.) | A.R. |
| 52 | 10-150900 | | SLEEVE, PLASTIC COIL (1", heat resistant) | |
| | | | (Bulk item. 24 ft [7.32 m] needed here.) | A.R. |

TITLE: FOUR-WHEEL DRIVE OPTION COMPONENTS, MP/ RP SERIES WITH EXTENDABLE AXLES

SECTION B01. | PLATE NO. 28 | PAGE 02 | REV. A | DATED 10 OCT., 1996 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



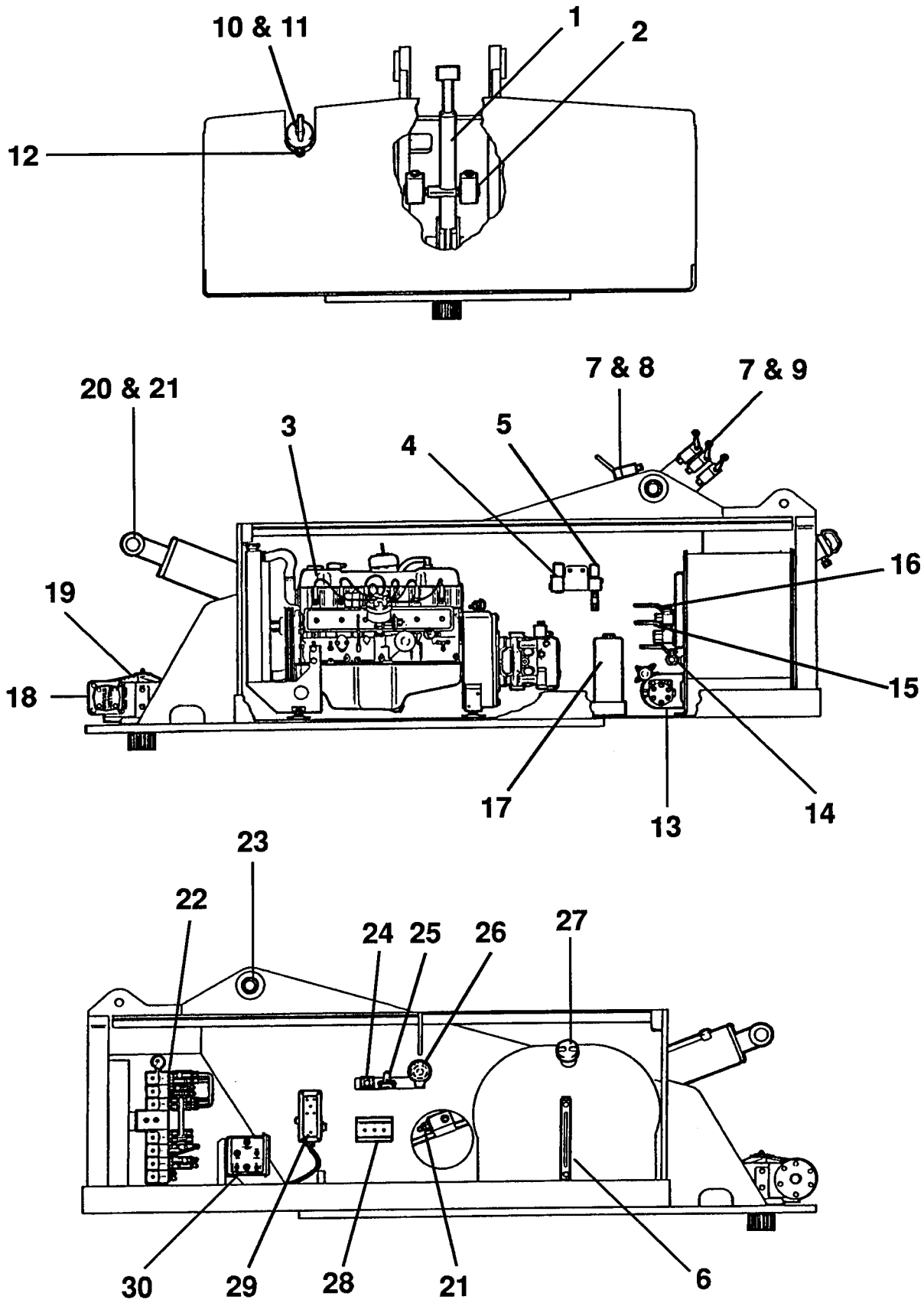

| | | | | | | |
|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE | FOUR-WHEEL DRIVE OPTION COMPONENTS, MP/ RP SERIES WITH EXTENDABLE AXLES | | | | |
| | PART NO. | REV. A | DATED 10 OCT., 1996 | SECTION B01. | PLATE NO. 28 | PAGE 02 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | See index | D10.-- | CYLINDER, MASTER LEVELING | 1 |
| 2 | 01-008900 | | VALVE, LEVELING CYLINDER RELIEF | 2 |
| 3 | See index | C04.-- | ENGINE ASSEMBLY | 1 |
| 4 | 01--037100 | | VALVE, SOLENOID (Low speed) | 1 |
| 5 | 01--034400 | | VALVE, SOLENOID (High speed) | 1 |
| 6 | See index | D12.-- | GAUGE, SIGHT | 2 |
| 7 | 03-025600 | | SWITCH, LIMIT (Double pole, single throw) | 4 |
| 8 | 03-026200 | | ARM, LIMIT SWITCH | 1 |
| 9 | 03-026400 | | ARM, LIMIT SWITCH | 4 |
| 10 | 10-002100 | | CAP, HYDRAULIC FLUID FILLER | 1 |
| 11 | 10-001000 | | STRAINER | 1 |
| 12 | 01-008200 | | PLUG, VENT (with filter) | 1 |
| 13 | See index | D07.-- | PUMP, EMERGENCY | 1 |
| 14 | 01-020600 | | VALVE, SHUT OFF (3/4") | 1 |
| 15 | 01-015700 | | VALVE, SHUT OFF (2") | 1 |
| 16 | | | VALVE, SHUT OFF (1-1/2") | 1 |
| 17 | 01-014000 | D11.03 | FILTER, HIGH PRESSURE | 1 |
| 18 | See index | D06.-- | MOTOR, SWING | 1 |
| 19 | See index | F02.-- | REDUCER, SWING | 1 |
| 20 | See index | D09.-- | CYLINDER, LIFT | 1 |
| 21 | 01-023900 | | HOLDING VALVE, LIFT CYLINDER | 1 |
| 22 | See index | C02.-- | VALVE BANK ASSEMBLY | 1 |
| 23 | 08-015200 | | BEARING, BOOM PIVOT | 2 |
| 24 | 03-038300 | | ALARM, MOVEMENT | 1 |
| 25 | 03-038100 | | ALARM, TILT | 1 |
| 26 | 03-036100 | | HORN | 1 |
| 27 | 10-001900 | | CAP, FUEL FILLER | 1 |
| 28 | 03-067600 | | ISOLATOR, BATTERY | 1 |
| 29 | See index | C06.-- | PENDANT CONTROLLER ASSEMBLY | 1 |
| 30 | See index | C03.-- | BOX, GROUND CONTROL | 1 |

TITLE: SUPERSTRUCTURE ASSEMBLY

PLATE NO. B02.14 | **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. CAA-2097941



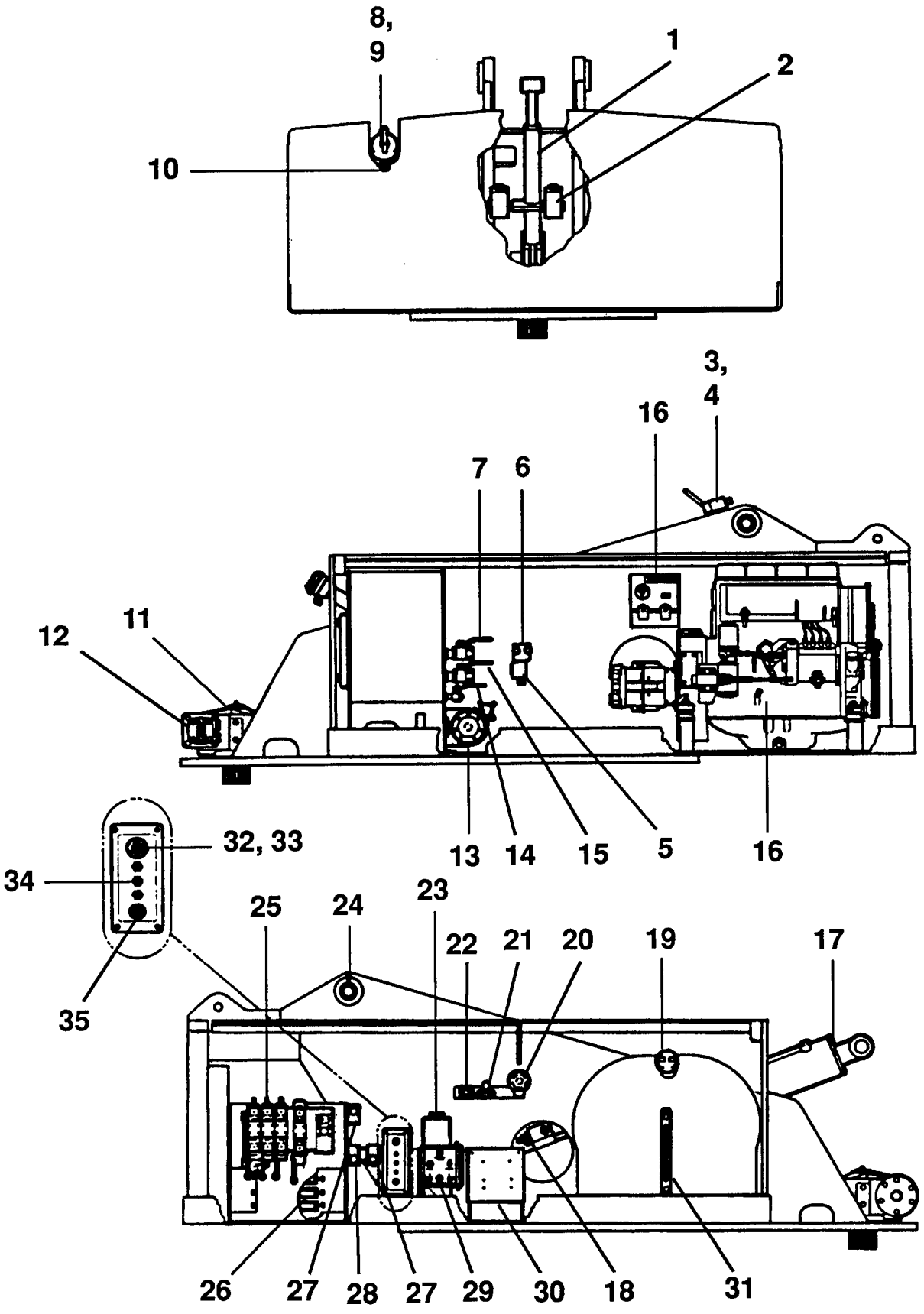

| TITLE | SUPERSTRUCTURE ASSEMBLY | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. CAA-2097941 | PLATE NO. B02.14 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | See Index | D10 | CYLINDER, MASTER LEVELING | 1 |
| 2 | 01-008900 | | VALVE, RELIEF, LEVELING | 2 |
| 3 | 03-025600 | | SWITCH, LIMIT | 1 |
| 4 | 03-026200 | | ARM, LIMIT SWITCH | 1 |
| 5 | 01-013700 | | SOLENOID VALVE, PUMP UNLOADING | 1 |
| 6 | 01-013900 | | BLOCK, SOLENOID VALVE | 1 |
| 7 | | | VALVE, SHUT OFF (1-1/2") | 1 |
| 8 | 10-002100 | | CAP, FILLER, HYDRAULIC FLUID | 1 |
| 9 | 10-001000 | | STRAINER | 1 |
| 10 | 01-008200 | | PLUG, VENT WITH FILTER | 1 |
| 11 | See Index | F02 | SWING REDUCER | 1 |
| 12 | See Index | D06 | SWING MOTOR | 1 |
| 13 | See Index | D07 | PUMP, EMERGENCY | 1 |
| 14 | 01-015700 | | VALVE, SHUT OFF (2") | 1 |
| 15 | 01-020600 | | VALVE, SHUT OFF (3/4") | 1 |
| 16 | See Index | C04 | ENGINE ASSEMBLY | 1 |
| 17 | See Index | D09 | CYLINDER, LIFT | 1 |
| 18 | 01-023900 | | VALVE, HOLDING, LIFT CYLINDER | 1 |
| 19 | 10-001900 | | CAP, FILLER, FUEL | 1 |
| 20 | 03-036100 | | HORN | 1 |
| 21 | 03-038100 | | ALARM, TILT | 1 |
| 22 | 03-038300 | | ALARM, MOVEMENT | 1 |
| 23 | 01-014000 | | FILTER, HIGH PRESSURE | 1 |
| 24 | 08-015200 | | BEARING, BOOM PIVOT | 2 |
| 25 | See Index | C02 | VALVE BANK ASSEMBLY (DRIVE, SWING, LIFT, EXTEND) | 1 |
| 26 | See Index | C02 | VALVE BANK ASSEMBLY (STEER, LEVEL, ROTATE) | 1 |
| 27 | 01-016300 | | VALVE, RELIEF (EXTEND, LIFT) | 2 |
| 28 | 01-015100 | | VALVE, RELIEF, SWING | 1 |
| 29 | See Index | C03 | BOX ASSEMBLY, GROUND CONTROL | 1 |
| 30 | See Index | C03 | BOX ASSEMBLY, GROUND PROPORTIONAL CONTROLS | 1 |
| 31 | 10-033500 | | GAUGE, SIGHT | 2 |
| 32 | 03-021200 | | BUTTON, PUSH | 1 |
| 33 | 03-025000 | | BLOCK, CONTACT | 1 |
| 34 | 03-020500 | | SWITCH, TOGGLE (SPST) | 3 |
| 35 | 03-020300 | | BUTTON, PUSH | 1 |

TITLE: SUPERSTRUCTURE ASSEMBLY

PLATE NO. B02.15 | **SIMON AERIALS INC.** REV. 4 MAR. '92 | PART NO. 2098111

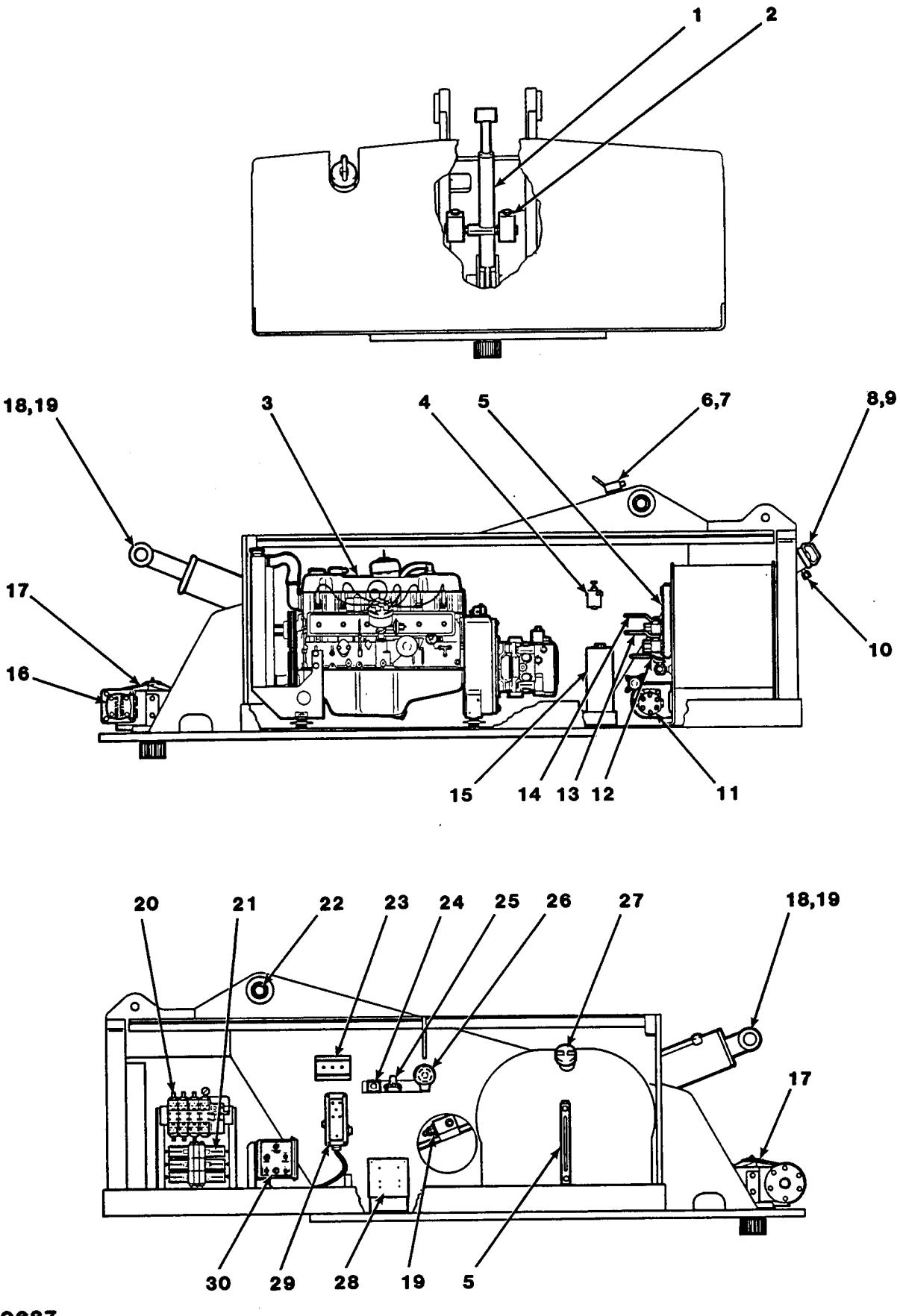



| TITLE | SUPERSTRUCTURE ASSEMBLY | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 4 MAR. '92 | PART NO. 2098111 | PLATE NO. B02.15 | |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | SEE INDEX | D10 | MASTER LEVELING CYLINDER | 1 |
| 2 | 01-008900 | | RELIEF VALVE, LEVELING | 2 |
| 2 | SEE INDEX | C 4 | ENGINE ASSEMBLY | 1 |
| 4 | 01-061800 | | SEQUENCE VALVE | 1 |
| 5 | 10-033500 | | SIGHT GAUGE | 2 |
| 6 | 03-025600 | | LIMIT SWITCH | 1 |
| 7 | 03-026200 | | LEVER ARM, LIMIT SWITCH | 1 |
| 8 | 10-002100 | | FILLER CAP, HYDRAULIC OIL | 1 |
| 9 | 10-001000 | | STRAINER | 1 |
| 10 | 01-008200 | | VENT PLUG W/FILTER | 1 |
| 11 | SEE INDEX | D 7 | EMERGENCY PUMP | 1 |
| 12 | 01-020600 | | SHUTOFF VALVE, 3/4" | 1 |
| 13 | | | SHUTOFF VALVE, 1½" | 1 |
| 14 | 01-015700 | | SHUTOFF VALVE, 2" | 1 |
| 15 | SEE INDEX | D11 | HIGH PRESSURE FILTER | 1 |
| 16 | SEE INDEX | D 6 | SWING MOTOR | 1 |
| 17 | SEE INDEX | F 2 | SWING REDUCER | 1 |
| 18 | SEE INDEX | D 9 | LIFT CYLINDER | 1 |
| 19 | 01-023900 | | HOLDING VALVE | 1 |
| 20 | SEE INDEX | C 2 | VALVE BANK ASS'Y(DRIVE,SWING,LIFT,SWING) | 1 |
| 21 | SEE INDEX | C 2 | VALVE BANK ASS'Y (STEER,LEVEL,ROTATE) | 1 |
| 22 | 08-015200 | | BEARING, BOOM PIVOT | 2 |
| 23 | 03-067600 | | BATTERY SPLITTER | 1 |
| 24 | 03-038300 | | MOVEMENT ALARM | 1 |
| 25 | 03-038100 | | TILT ALARM | 1 |
| 26 | 03-036100 | | HORN | 1 |
| 27 | 10-001900 | | FILLER CAP, FUEL | 1 |
| 28 | SEE INDEX | C 2 | GRAND CONTROL BOX ASSEMBLY | 1 |
| 29 | SEE INDEX | C 6 | REMOTE CONTROLLER (PENDANT) | 1 |
| 30 | SEE INDEX | C 2 | GRAND CONTROL BOX(PROPORTIONAL CONTROLS) | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| **SUPERSTRUCTURE ASSEMBLY** | |




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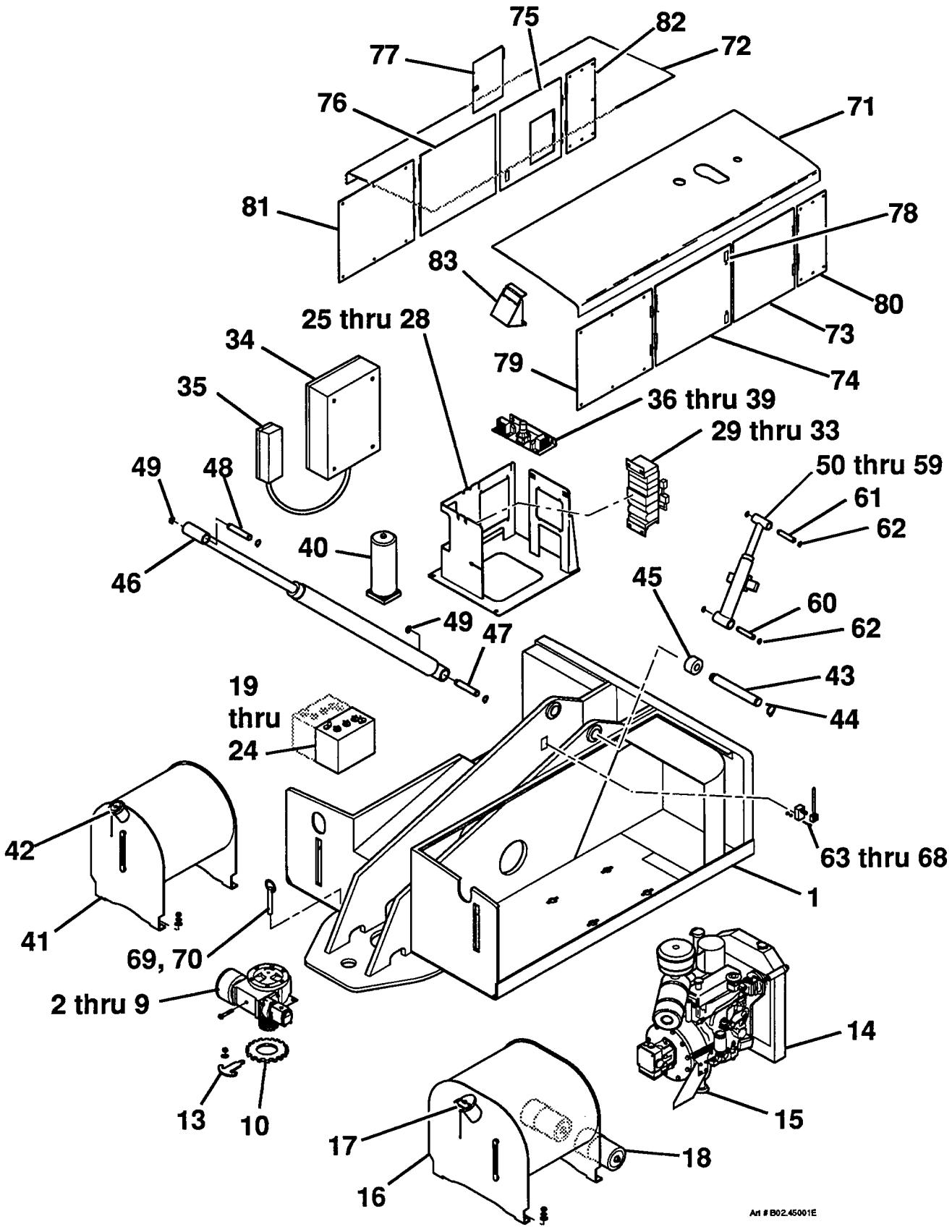
| DESCRIPTION | PART NO. |
|---|---|
| **SUPERSTRUCTURE ASSEMBLY** | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | SUPERSTRUCTURE WELDMENT | 1 |
| 2 | | | SPEED REDUCER (Swing drive) ASSEMBLY | 1 |
| 3 | See Index | D06.-- | MOTOR, HYDRAULIC SWING | 1 |
| 4 | See Index | F02.-- | REDUCER, SWING (Worm gear type, with brake) | 1 |
| 5 | 06-001000 | | CONNECTOR, MALE (6-8 FTX) | 2 |
| 6 | 06-051500 | | ELBOW, SWIVEL NUT (6 C6X) | 2 |
| 7 | 07-008043 | | CAP SCREW, SOCKET HEAD (3/8"-16 x 3/4", Grade 8) | 4 |
| 8 | 07-024131 | | SET SCREW, SQUARE HEAD (5/8"-11 x 2-1/2", Grade 5) | 4 |
| 9 | 07-047021 | | NUT, JAM (5/8"-11, Grade 5) | 4 |
| 10 | | | PLATE, SWING PINION GEAR ADJUSTING | 1 |
| 11 | | | CAP SCREW, HEX HEAD | 20 |
| 12 | | | WASHER, FLAT | 20 |
| 13 | | | LOCK, SWIVEL | 1 |
| 14 | See Index | C04.-- | ENGINE ASSEMBLY | 1 |
| 15 | | | MOUNT, ENGINE | 4 |
| 16 | See Index | C10.-- | TANK ASSEMBLY, HYDRAULIC | 1 |
| 17 | 10-002100 | | CAP, HYDRAULIC TANK FILLER | 1 |
| 18 | See Index | D07.-- | PUMP, EMERGENCY HYDRAULIC | 2 |
| 19 | | | BATTERY, 12 VOLT | 2 |
| 20 | | | CABLE, BATTERY (negative) | 1 |
| 21 | | | CABLE, BATTERY (positive) | 1 |
| 22 | | | HOLD DOWN, BATTERY | 1 |
| 23 | | | J-BOLT | 2 |
| 24 | | | PROTECTOR, BATTERY | 2 |
| 25 | | | BRACKET, GROUND CONTROL MOUNTING | 1 |
| 26 | | | NUT, HEX (to attach mounting bracket) | A.R. |
| 27 | | | WASHER, HELICAL LOCK | A.R. |
| 28 | | | WASHER, FLAT | A.R. |
| 29 | See Index | C02.-- | VALVE ASSEMBLY, GROUND | 1 |
| 30 | | | BOLT, HEX HEAD (to attach valve assembly) | A.R. |
| 31 | | | NUT, HEX LOCK | A.R. |
| 32 | | | WASHER, FLAT | A.R. |
| 33 | | | VALVE, FLOW CONTROL (on "Boom up" valve outlet) | 1 |
| 34 | See Index | C03.-- | BOX ASSEMBLY, GROUND CONTROL | 1 |
| 35 | See Index | C06.-- | PENDANT ASSEMBLY, REMOTE CONTROL | 1 |
| 36 | See Index | E08.-- | ALARM ASSEMBLY | 1 |
| 37 | 03-038100 | | SENSOR, LEVEL (2 second delay) | 1 |
| 38 | 03-464600 | | HORN, LEVEL WARNING (102 dba, 12/ 24 volt DC) | 1 |
| 39 | 03-472000 | | ALARM, MOVEMENT | 1 |
| 40 | See Index | D11.-- | FILTER, HYDRAULIC (High pressure) | 1 |
| 41 | See Index | C11.-- | TANK ASSEMBLY, FUEL | 1 |
| 42 | 10-001900 | | CAP, FUEL TANK FILLER (Vented, Anti-surge) | 1 |

TITLE SUPERSTRUCTURE ASSEMBLY, MP 110 (with vertically hinged doors)

PLATE NO. B02.45 | **SIMON AERIALS INC.** NEW 16 DEC., 1992 | PART NO.




TITLE SUPERSTRUCTURE ASSEMBLY, MP 110 (with vertically hinged doors)

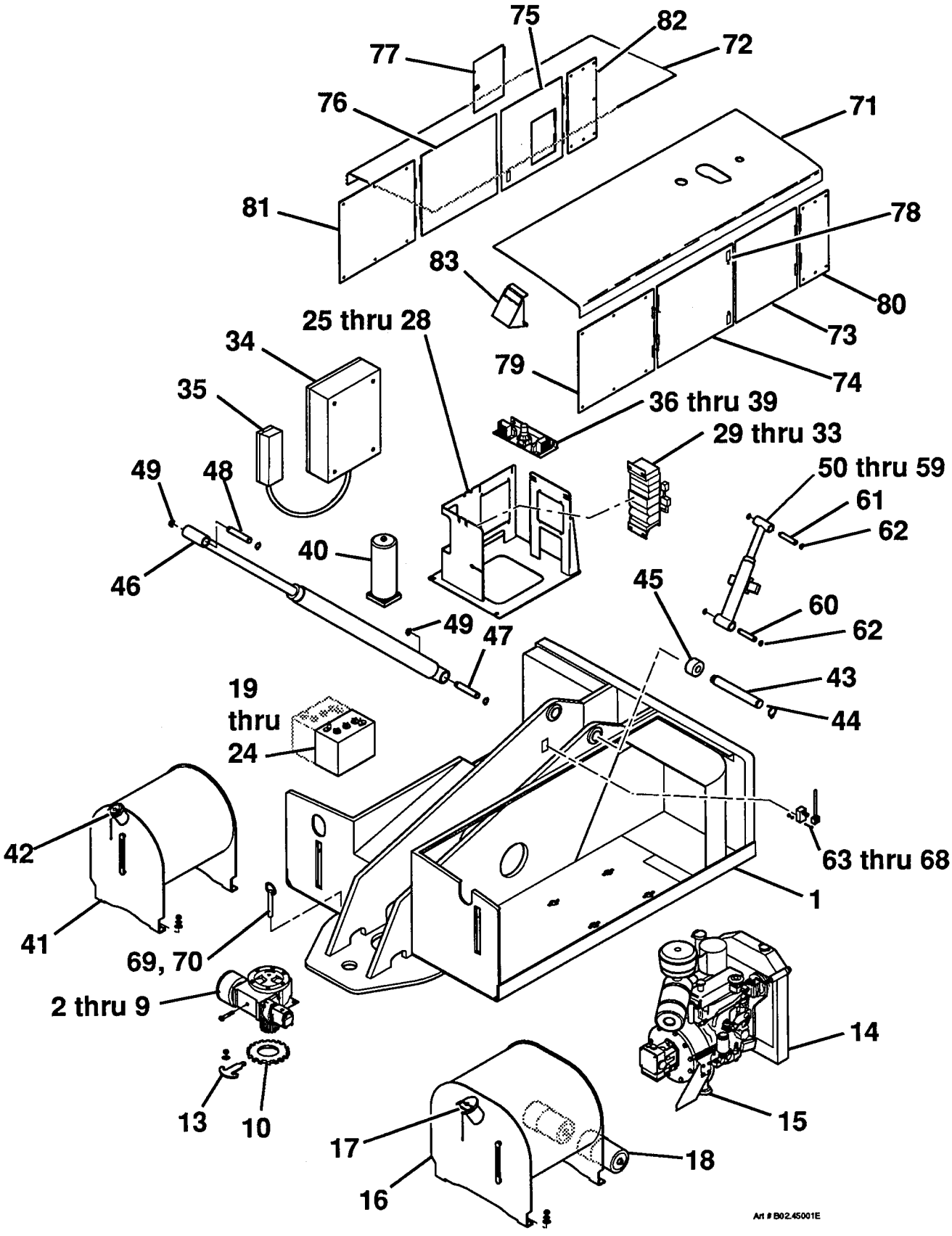
| SIMON AERIALS INC. NEW 16 DEC., 1992 | PART NO. | PLATE NO. B02.45 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 43 | 2091626 | | PIN, BOOM PIVOT | 1 |
| 44 | 08-043300 | | RING, RETAINING (2-3/4") | 2 |
| 45 | 2176930 | | BUSHING, BOOM PIVOT | 2 |
| 46 | See Index | D09.-- | CYLINDER, BOOM LIFT | 1 |
| 47 | 2091619 | | PIN, LIFT CYLINDER (base end) | 1 |
| 48 | 2144200 | | PIN, LIFT CYLINDER (rod end) | 1 |
| 49 | 08-043000 | | RING, RETAINING (2-1/2") | 4 |
| 50 | | | CYLINDER ASSEMBLY, MASTER LEVEL | 1 |
| 51 | See Index | D10.-- | CYLINDER, MASTER LEVEL | 1 |
| 52 | | | VALVE, RELIEF | 2 |
| 53 | | | TUBE ASSEMBLY | 1 |
| 54 | | | ELBOW, STRAIGHT THREAD (6 C50X) | 2 |
| 55 | | | RUN TEE, STRAIGHT THREAD (6 R50X) | 2 |
| 56 | | | REDUCER/ EXPANDER (10-6 F50 G5) | 6 |
| 57 | | | UNION (6 F50 F50) | 2 |
| 58 | 08-050000 | | FITTING, GREASE (1/8", Straight) | 1 |
| 59 | 08-050500 | | FITTING, GREASE (1/8", 45°) | 1 |
| 60 | 2068864 | | PIN, MASTER CYLINDER (1-1/4" x 6-1/8") (base end) | 1 |
| 61 | 2068884 | | PIN, MASTER CYLINDER (1-1/4" x 4-7/8") (rod end) | 1 |
| 62 | 08-040700 | | RING, RETAINING (1-1/4") | 4 |
| 63 | 03-021400 | | SWITCH, LIMIT | 1 |
| 64 | 03-026200 | | LEVER BLOCK, LIMIT SWITCH | 1 |
| 65 | 2010906 | | ARM, LIMIT SWITCH | 1 |
| 66 | 07-008356 | | SCREW, SOCKET HEAD (#10-24 x 1-3/4", Grade 8) | 2 |
| 67 | 07-050011 | | NUT, CENTER LOCK (#10-24, Grade 2) | 2 |
| 68 | 07-062011 | | WASHER, FLAT (#10) | 2 |
| 69 | 07-080004 | | PIN, HITCH (1-1/4" x 7") (includes hairpin clip) | 1 |
| 70 | | | CLIP, HAIRPIN | 1 |
| 71 | | | PANEL, ROOF (Right) | 1 |
| 72 | | | PANEL, ROOF (Left) | 1 |
| 73 | | | DOOR ASSEMBLY, OUTER (Right side, right hand) | 1 |
| 74 | | | DOOR ASSEMBLY, INNER (Right side, left hand) | 1 |
| 75 | | | DOOR ASSEMBLY, OUTER (Left side, left hand) | 1 |
| 76 | | | DOOR ASSEMBLY, INNER (Left side, right hand) | 1 |
| 77 | | | DOOR ASSEMBLY, CONTROL ACCESS | 1 |
| 78 | 10-004900 | | LATCH, FLUSH (locking) | 5 |
| 79 | | | SIDE PANEL (wide) (Right side, left hand) | 1 |
| 80 | | | SIDE PANEL (narrow) (Right side, right hand) | 1 |
| 81 | | | SIDE PANEL (wide) (Left side, right hand) | 1 |
| 82 | | | SIDE PANEL (narrow) (Left side, left hand) | 1 |
| 83 | | | COVER, HYDRAULIC TANK FILLER | 1 |
| 84 | | | WEATHERSTRIP (Bulk, order in feet) | A.R. |

TITLE SUPERSTRUCTURE ASSEMBLY, MP 110 (with vertically hinged doors)

PLATE NO. B02.45 | **SIMON AERIALS INC.** REV. 22 APR., 1993 | PART NO.




TITLE SUPERSTRUCTURE ASSEMBLY, MP 110 (with vertically hinged doors)

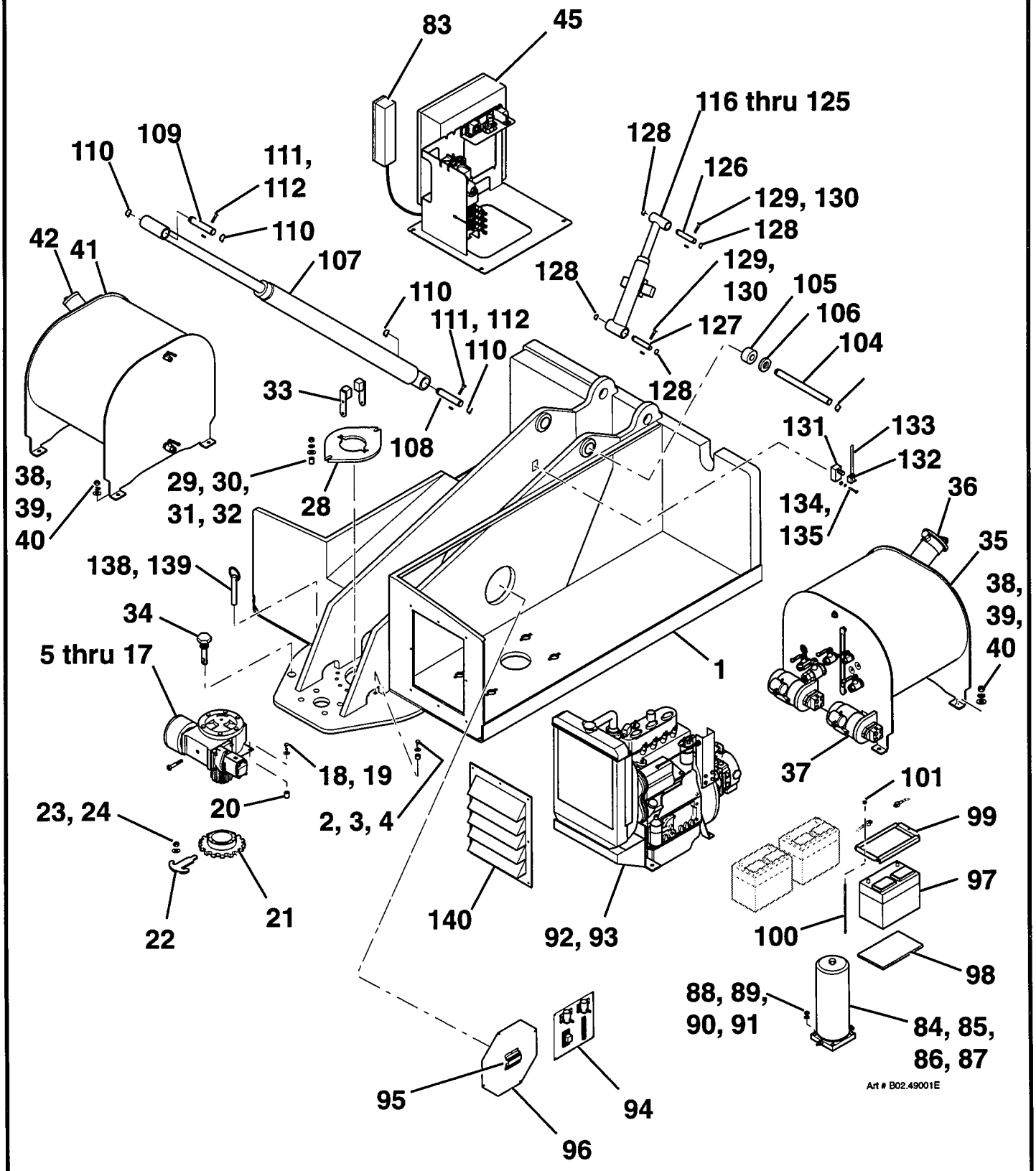
| SIMON AERIALS INC. REV. 22 APR., 1993 | PART NO. | PLATE NO. B02.45 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | SUPERSTRUCTURE WELDMENT | 1 |
| | 209 0304 | | with Perkins 4.236 engine | |
| | Call Simon | | with engines other than those listed above | |
| 2 | 07-004152 | | CAP SCREW, HEX HEAD (3/4"-10 x 2-3/4", Grade 8) | 19 |
| | 07-004158 | | CAP SCREW, HEX HEAD (3/4"-10 x 4-1/2", Grade 8) | 11 |
| 3 | 07-061022 | | WASHER, FLAT (3/4" SAE) | 30 |
| 4 | 209 3349 | | SPACER, SWING BEARING | 11 |
| 5 | | | SPEED REDUCER (Swing drive) ASSEMBLY | 1 |
| 6 | See Index | D06.-- | MOTOR, HYDRAULIC SWING | 1 |
| 7 | See Index | F02.-- | REDUCER, SWING (Worm gear type, with brake) | 1 |
| 8 | 01-013800 | | VALVE, SHUTTLE | 1 |
| 9 | 06-044600 | | 90° ELBOW, STRAIGHT THREAD (6 C50X-S) | 2 |
| 10 | 06-048500 | | RUN TEE, MALE "O"-RING (6 R50X-S) | 2 |
| 11 | 06-079000 | | CONNECTOR, SWIVEL NUT (6 F65X-S) | 1 |
| 12 | 06-090800 | | REDUCER/ EXPANDER (10-6 F50 G5-S) | 2 |
| 13 | 06-191900 | | ADAPTER, "O"-RING TO 37° (6-4 F50X-S) | 1 |
| 14 | 06-051500 | | 90° ELBOW, SWIVEL NUT (6 C6X-S) | 2 |
| 15 | 07-008043 | | CAP SCREW, SOCKET HEAD (3/8"-16 x 3/4", Grade 8) | 4 |
| 16 | 08-066300 | | CAP, GREASE FITTING (Plastic) | 1 |
| 17 | 350 8109 | | TUBE ASSEMBLY | 2 |
| 18 | 07-008131 | | CAP SCREW, SOCKET HEAD (5/8"-11 x 2-1/2", Grade 8) | 4 |
| 19 | 07-061021 | | WASHER, FLAT (5/8", SAE) | 8 |
| 20 | 209 6362 | | SPACER, SPEED REDUCER | 4 |
| 21 | 233 8820 | | ECCENTRIC, SWING DRIVE | 1 |
| 22 | 214 1070 | | PLATE, ECCENTRIC LOCK | 1 |
| 23 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 2 |
| 24 | 07-062016 | | WASHER, FLAT (3/8") | 2 |
| 25 | 205 4670 | | CLAMP, HOSE (2 hole, #4) | 1 |
| 26 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 1 |
| 27 | 07-062014 | | WASHER, FLAT (1/4") | 1 |
| 28 | 207 5857 | | RETAINER, HYDRAULIC SWIVEL | 1 |
| 29 | 207 5833 | | SPACER, SWIVEL LOCK | 2 |
| 30 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 2 |
| 31 | 07-062018 | | WASHER, FLAT (1/2") | 2 |
| 32 | 10-002600 | | WASHER, FENDER (1/2" I.D., 2" O.D.) | 2 |
| 33 | 210 1030 | | STOP, HYDRAULIC SWIVEL (bolts to swivel) | 2 |
| 34 | 207 5125 | | DIPSTICK (Swing bearing filler cap) | 1 |

TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 1 OF 7)

| PLATE NO. | | PART NO. |
|---|---|---|
| B02.49 | **SIMON AERIALS INC.** NEW 17 NOV., 1994 | |




TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 1 OF 7)

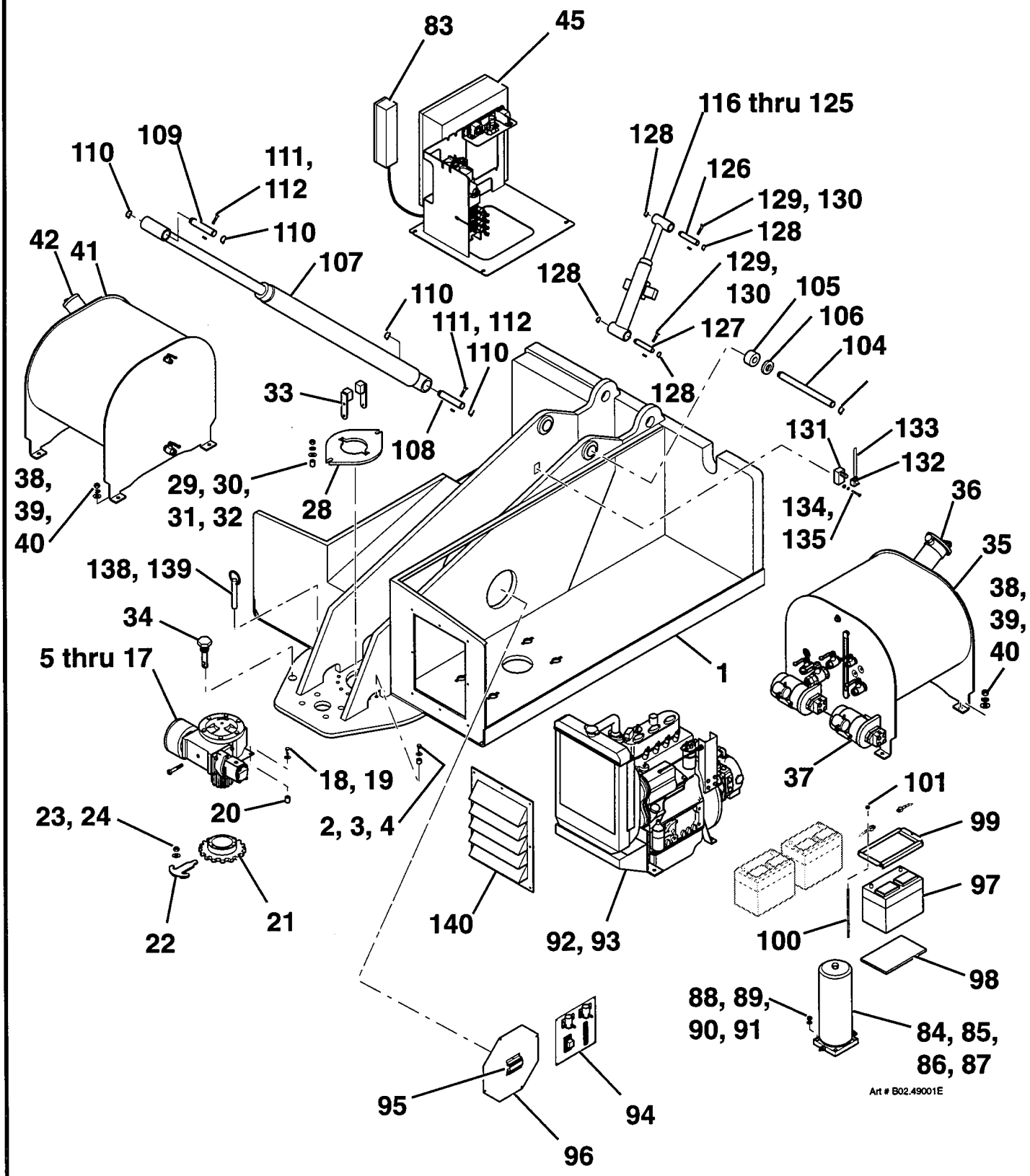
**SIMON AERIALS INC.** NEW 17 NOV., 1994 | PART NO. | PLATE NO. B02.49

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 35 | See Index | C10.-- | TANK ASSEMBLY, HYDRAULIC | 1 |
| 36 | 10-002100 | | CAP, HYDRAULIC TANK FILLER | 1 |
| 37 | See Index | D07.-- | PUMP, EMERGENCY HYDRAULIC | 2 |
| 38 | 07-040018 | | NUT, HEX (1/2"-13, Grade 5) | 8 |
| 39 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 8 |
| 40 | 07-062018 | | WASHER, FLAT (1/2") | 24 |
| 41 | See Index | C11.-- | TANK ASSEMBLY, FUEL | 1 |
| 42 | 10-001900 | | CAP, FUEL TANK FILLER (Vented, Anti-surge) | 1 |
| 43 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 4 |
| 44 | 07-062018 | | WASHER, FLAT (1/2") | 4 |

TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 2 OF 7)

PLATE NO. B02.49 | **SIMON AERIALS INC.** NEW 17 NOV., 1994 | PART NO.




TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 2 OF 7)

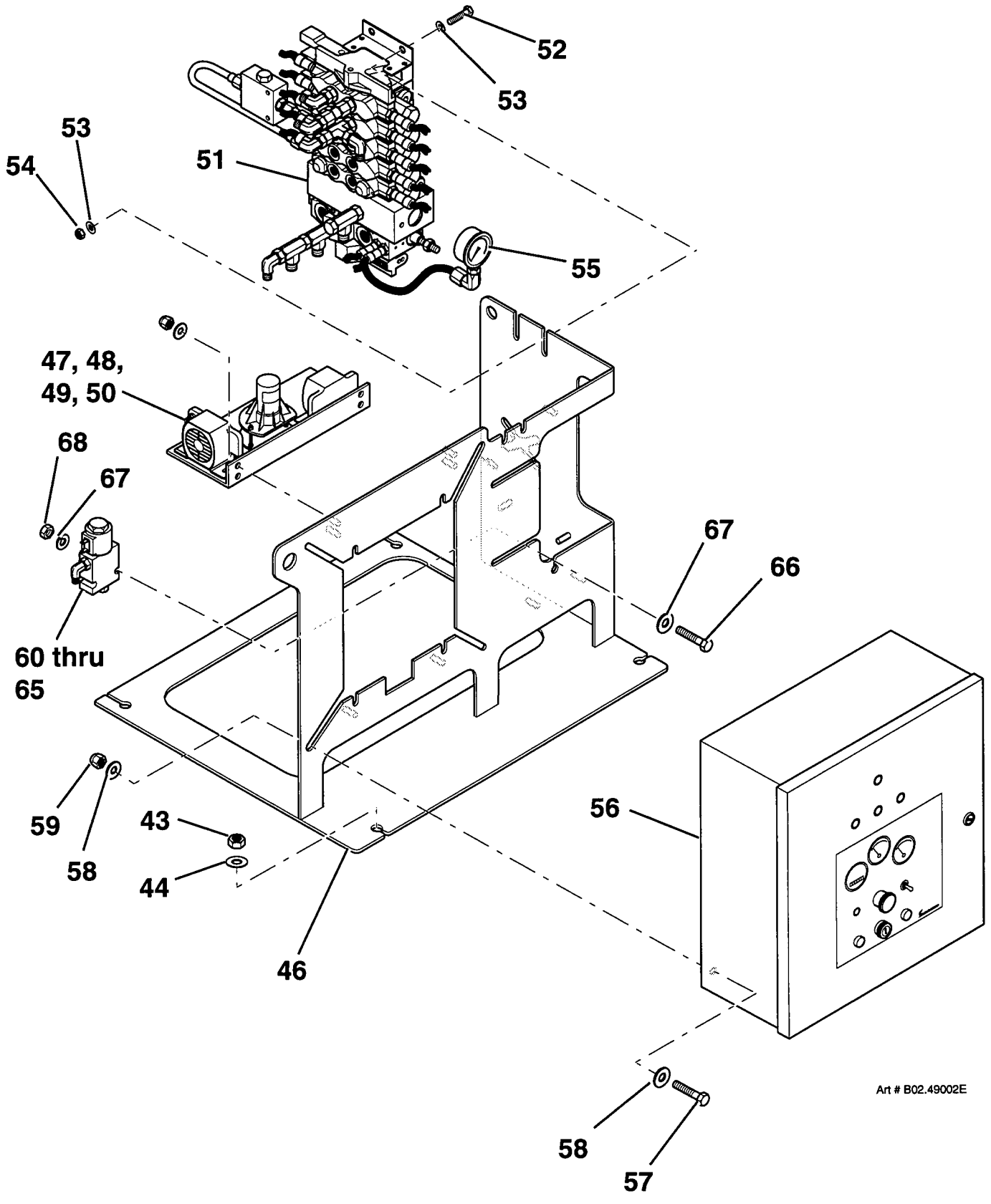
| SIMON AERIALS INC. NEW 17 NOV., 1994 | PART NO. | PLATE NO. B02.49 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 45 | 353 4410 | | GROUND CONTROL ASSEMBLY | 1 |
| 46 | 232 9350 | | BRACKET, GROUND CONTROL | 1 |
| 47 | See Index | E08.-- | ALARM ASSEMBLY | 1 |
| 48 | 03-038100 | | SENSOR, LEVEL (2 second delay) | 1 |
| 49 | 03-464600 | | HORN, LEVEL WARNING (102 dba, 12/ 24 volt DC) | 1 |
| 50 | 03-472000 | | ALARM, MOVEMENT | 1 |
| 51 | 353 2550 | | MANIFOLD ASSEMBLY | 1 |
| 52 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 3 |
| 53 | 07-062016 | | WASHER, FLAT (3/8") | 6 |
| 54 | 07-050016 | | NUT, HEX TOP LOCK (3/8"-16, Grade 5) | 3 |
| 55 | 01-021000 | | GAUGE, HYDRAULIC PRESSURE (0 to 4000 PSI, 1/4" Male NPT) | 1 |
| 56 | See plate . . | C03. - - | PANEL ASSEMBLY, GROUND ELECTRICAL | 1 |
| 57 | 07-003004 | | CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5) | 4 |
| 58 | 07-062014 | | WASHER, FLAT (1/4") | 8 |
| 59 | 07-050014 | | NUT, HEX LOCK (1/4"-20, Grade 5) | 4 |
| 60 | 01-093500 | | VALVE, SOLENOID (Dump valve) | 1 |
| 61 | 01-093501 | | COIL, SOLENOID VALVE | 1 |
| 62 | 06-039800 | | ADAPTER, "O"-RING TO 37° (6 F50X-S) | 1 |
| 63 | 06-044600 | | 90° ELBOW, STRAIGHT THREAD (6 C50X-S) | 1 |
| 64 | 06-080200 | | 90° STREET ELBOW (1/4 CD-S) | 1 |
| 65 | 06-212300 | | ADAPTER (6 WGTX-WLN) | 1 |
| 66 | 07-003009 | | CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5) | 2 |
| 67 | 07-062014 | | WASHER, FLAT (1/4") | 4 |
| 68 | 07-050014 | | NUT, HEX LOCK (1/4"-20, Grade 5) | 2 |
| 69 | 03-473900 | | TERMINAL, PIN | 20 |
| 70 | 03-474100 | | SEAL, WIRE (.079" to .110" dia.) | 20 |
| 71 | 03-486000 | | HOUSING, TERMINAL (2 conductor) | 10 |
| 72 | 03-502600 | | CONNECTOR, STRAIGHT (3/4") | 1 |
| 73 | 03-503000 | | CONDUIT (1/2" I.D., 3/4" O.D., non-slit) (Bulk item, order as needed. 2 Ft [.6 M] needed here) | A.R. |
| 74 | 03-503100 | | CONDUIT (3/4" I.D., 1" O.D., non-slit) (Bulk item, order as needed. 4 Ft [1.2 M] needed here) | A.R. |
| 75 | 03-504200 | | TEE, CONDUIT (3/4" x 1/2" x 3/4") | 2 |
| 76 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 3 |
| 77 | 07-003048 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-3/4", Grade 5) | 1 |
| 78 | 07-050016 | | NUT, HEX TOP LOCK (3/8"-16, Grade 5) | 2 |
| 79 | 07-062016 | | WASHER, FLAT (3/8") | 2 |
| 80 | 07-050016 | | NUT, HEX TOP LOCK (3/8"-16, Grade 5) | 2 |
| 81 | 07-062016 | | WASHER, FLAT (3/8") | 4 |
| 82 | 232 9410 | | HANGER, REMOTE PENDANT | 1 |

TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 3 OF 7)

| PLATE NO. | | PART NO. |
|---|---|---|
| B02.49 | **SIMON AERIALS INC.** NEW 17 NOV., 1994 | |



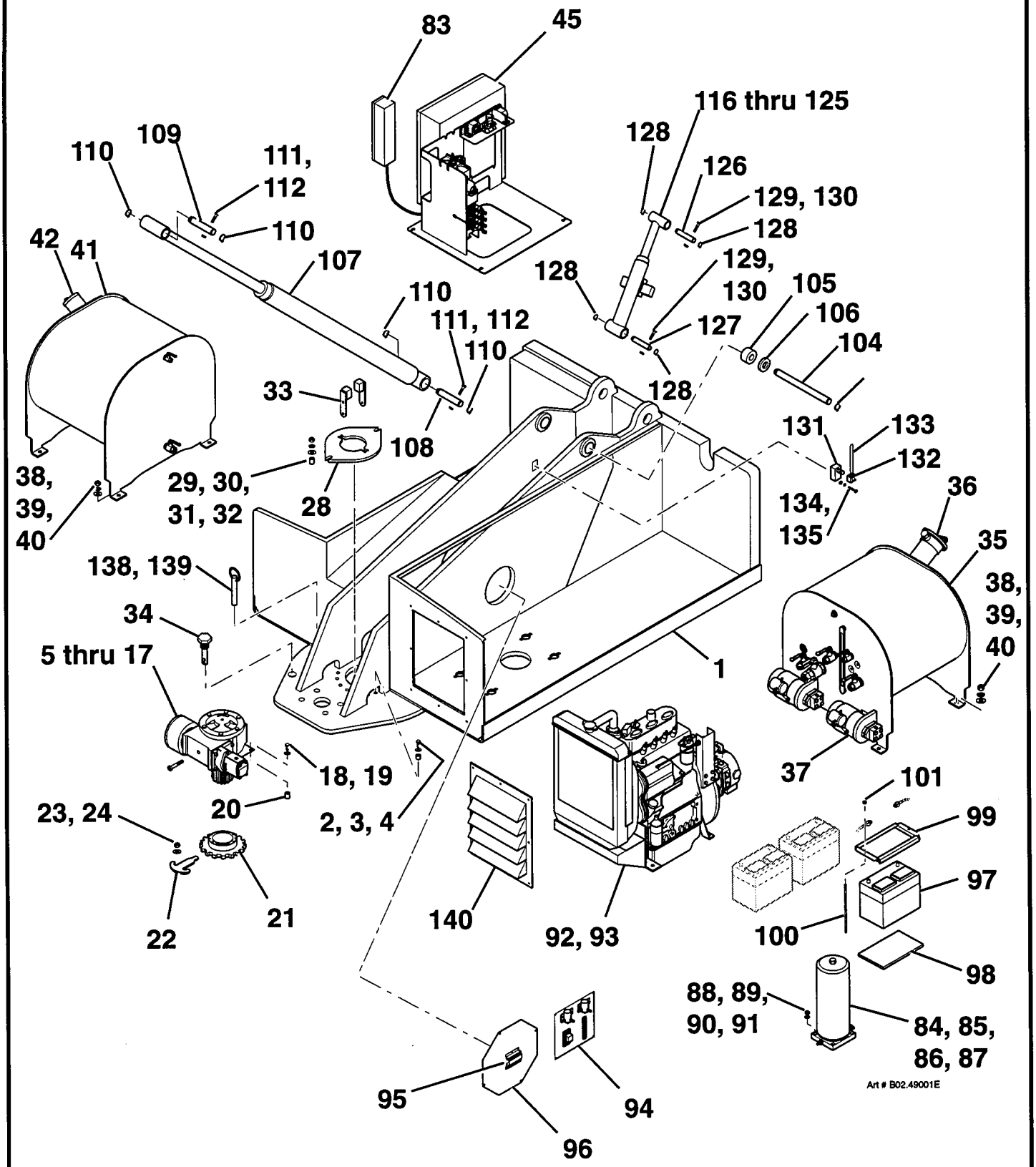

TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 3 OF 7)

| SIMON AERIALS INC. NEW 17 NOV., 1994 | PART NO. | PLATE NO. B02.49 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 83 | See Index | C06.-- | PENDANT ASSEMBLY, REMOTE CONTROL | 1 |
| 84 | See Index | D11.-- | FILTER, HYDRAULIC (High pressure) | 1 |
| 85 | 01-014005 | | ELEMENT, FILTER (3 micron, paper) | 1 |
| 86 | 06-045400 | | 90° ELBOW, STRAIGHT THREAD (12 C50X-S) | 2 |
| 87 | 06-092500 | | REDUCER/ EXPANDER (24-12 F50 G5-S) | 2 |
| 88 | 10-002600 | | WASHER, FENDER (1/2" I.D., 2" O.D.) | 4 |
| 89 | 10-086500 | | WASHER, RUBBER (1/2" I.D., 2" O.D.) | 4 |
| 90 | 07-062016 | | WASHER, FLAT (3/8") | 6 |
| 91 | 07-050016 | | NUT, TOP LOCK (3/8"-16, Grade 5) | 4 |
| 92 | See Index | C04.-- | ENGINE ASSEMBLY | 1 |
| 93 | 09-006500 | | MOUNT, ENGINE | 4 |
| 94 | 233 7420 | | PLATE, SOLENOID MOUNTING (Special application. See Engine Parts Plate for items mounted to this plate.) | 1 |
| 95 | Call Simon | | ISOLATOR, BATTERY | 1 |
| 96 | Call Simon | | PLATE, BATTERY ISOLATOR MOUNTING | 1 |
| 97 | 03-010001 | | BATTERY (12 Volt DC, 95 Amp) | 2 |
| 98 | 10-112900 | | PROTECTOR, BATTERY (Neoprene, 7" x 11" x 1/8" thick) | 2 |
| 99 | 03-064300 | | HOLD DOWN, BATTERY | 2 |
| 100 | 201 8274 | | ROD, THREADED (3/8"-16 x 8" long, Grade 2) | 4 |
| 101 | 07-040016 | | NUT, HEX (3/8"-16, Grade 5) | 6 |
| 102 | 03-451800 | | CABLE, BATTERY (negative) (Black, #2 AWG, 1/2" ring one end) | 1 |
| 103 | 03-072400 | | CABLE, BATTERY (positive) (#4 AWG, 75" [1.9 M] long) | 1 |
| | 03-451900 | | CABLE, BATTERY (positive) (Red, #2 AWG, 98" [2.5 M] long, 3/8" rings) | 1 |
| 104 | 209 1626 | | PIN, BOOM PIVOT (2-3/4" x 24-3/16") | 1 |
| 105 | 217 6930 | | BUSHING, BOOM PIVOT | 2 |
| 106 | 213 1880 | | WASHER, THRUST | 2 |
| 107 | See Index | D09.-- | CYLINDER, BOOM LIFT | 1 |
| 108 | 209 1619 | | PIN, LIFT CYLINDER (2-1/2" x 24-3/16") (base end) | 1 |
| 109 | 208 9186 | | PIN, LIFT CYLINDER (rod end) (2-1/2" x 15-11/16") | 1 |
| 110 | 08-043000 | | RING, RETAINING (2-1/2") | 4 |
| 111 | 07-004102 | | CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 8) | 2 |
| 112 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 2 |
| 113 | 08-050000 | | FITTING, GREASE (1/8", Straight) | 1 |
| 114 | 08-051300 | | FITTING, GREASE (1/8", 90°) | 1 |
| 115 | 08-066300 | | CAP, GREASE FITTING (White plastic) | 2 |

TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 4 OF 7)



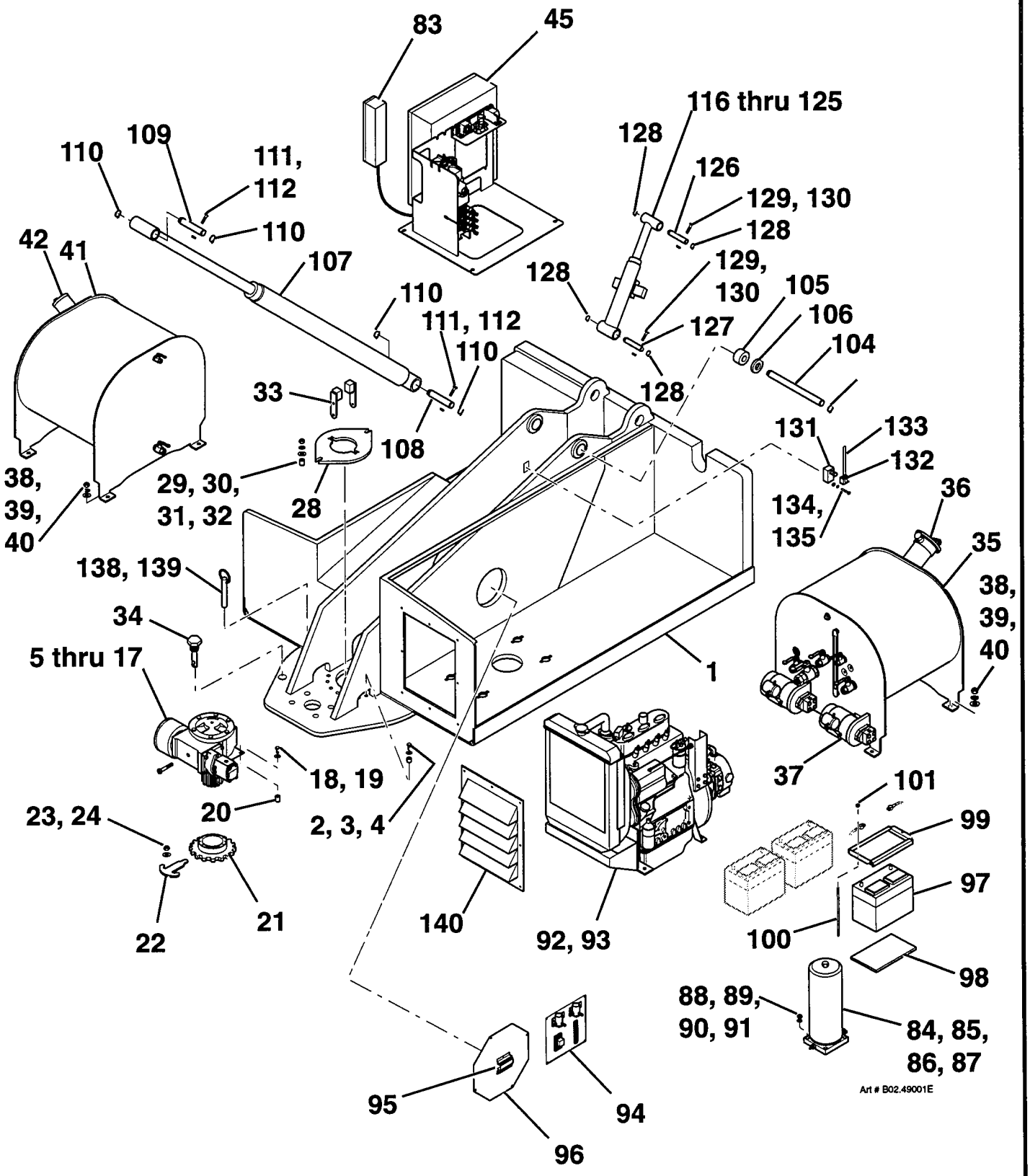

TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 4 OF 7)

**SIMON AERIALS INC.** NEW 27 NOV., 1994 | PART NO. | PLATE NO. B02.49

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 116 | | | CYLINDER ASSEMBLY, MASTER LEVEL | 1 |
| 117 | See Index | D10.-- | CYLINDER, MASTER LEVEL | 1 |
| 118 | 04-028202 | | VALVE, RELIEF | 2 |
| 119 | 06-048500 | | RUN TEE, MALE "O"-RING (6 R50X-S) | 1 |
| 120 | 06-039800 | | ADAPTER, "O"-RING TO 37° (6 F50X-S) | 1 |
| 121 | 06-044600 | | 90° ELBOW, STRAIGHT THREAD (6 C50X-S) | 2 |
| 122 | 06-051500 | | 90° ELBOW, SWIVEL NUT (6 C6X-S) | 1 |
| 123 | 08-050500 | | FITTING, GREASE (1/8", 45°) | 1 |
| 124 | 08-051300 | | FITTING, GREASE (1/8", 90°) | 1 |
| 125 | 08-066300 | | CAP, GREASE FITTING (White plastic) | 1 |
| 126 | 206 8864 | | PIN, MASTER CYLINDER (1-1/4" x 6-1/8") | 1 |
| 127 | 206 8879 | | PIN, MASTER CYLINDER (1-1/4" x 7-3/8") | 1 |
| 128 | 08-040700 | | RING, RETAINING (1-1/4") | 4 |
| 129 | 07-003093 | | CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5) | 2 |
| 130 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 2 |
| 131 | 03-493800 | | SWITCH, LIMIT (Side rotary, 2 normally open, 2 normally closed contacts) | 1 |
| 132 | 03-494100 | | ARM, LIMIT SWITCH (includes 6" nylon loop, which must be removed and replaced with rod, below.) | 1 |
| 133 | 201 0906 | | ARM, LIMIT SWITCH (stainless steel rod) | 1 |
| 134 | 07-008356 | | CAP SCREW, SOCKET HEAD (#10-24 x 1-3/4", Grade 8) | 2 |
| 135 | 07-062011 | | WASHER, FLAT (#10) | 2 |
| 136 | 03-085700 | | CABLE, ELECTRICAL (SJO, 4 conductor, #16 AWG) (Bulk item, 16 Ft [4.9 M] required this application) | A.R. |
| 137 | 03-041000 | | GRIP, CORD (1/2", with .38" to .44" seal) | 1 |
| 138 | | | PIN, HITCH (1-1/4" x 7") (includes hairpin clip) | 1 |
| | 233 9480 | | Later style, **with** lanyard | |
| | 07-080004 | | Earlier style, **without** lanyard | |
| 139 | | | CLIP, HAIRPIN | 1 |
| 140 | | | VENT, ENGINE AIR (on front of superstructure) | 1 |
| | 231 6040 | | used with Deutz F4L 912 engine | |
| | 231 6040 | | used with Isuzu 4 BD1 engine | |
| | 233 3390 | | used with Perkins 4.236 engine | |
| | Call Simon | | used with engines other than those listed above | |

TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 5 OF 7)



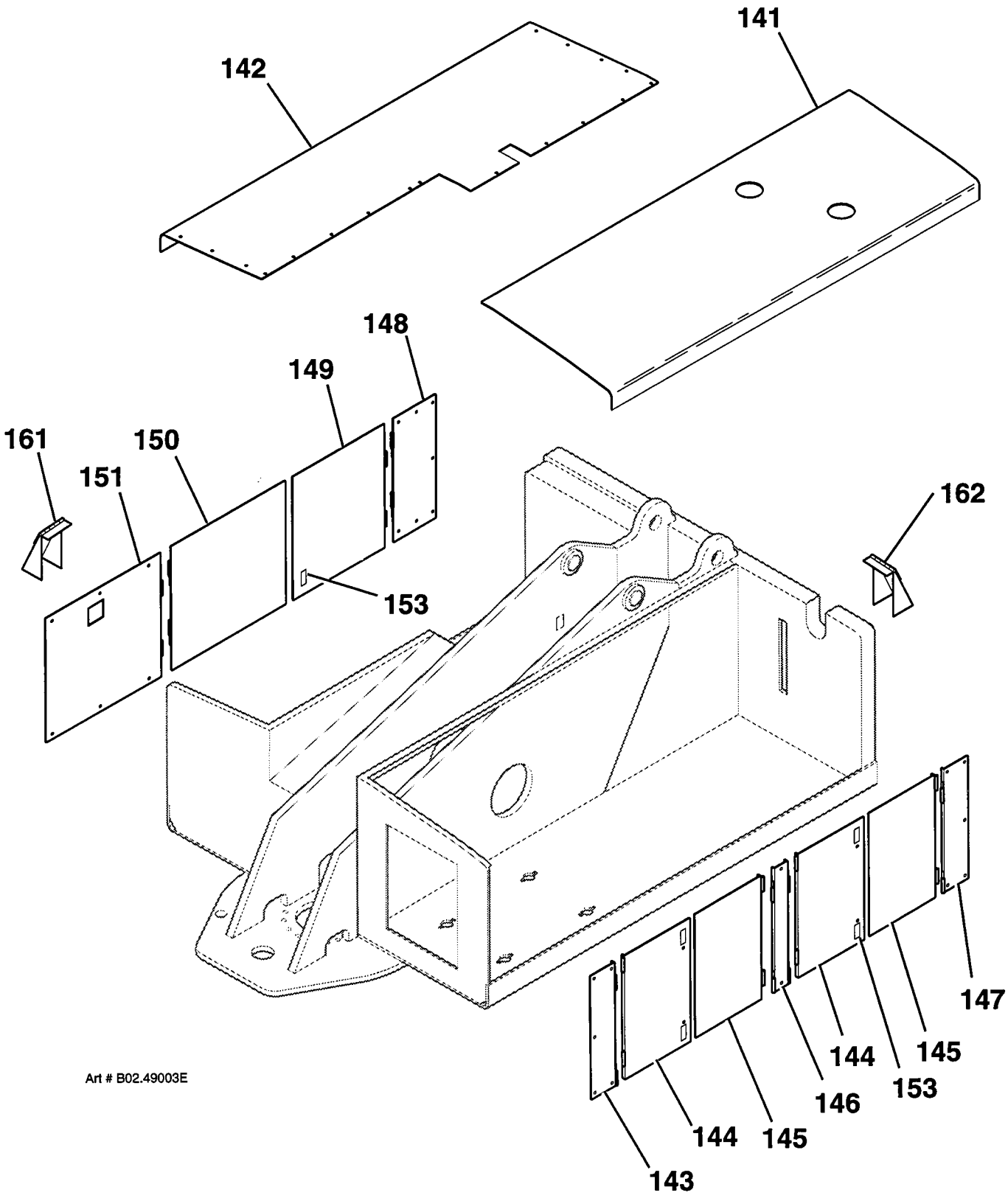

TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 5 OF 7)

| SIMON AERIALS INC. NEW 17 NOV., 1994 | PART NO. | PLATE NO. B02.49 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 141 | 209 1563 | | PANEL, ROOF (Right) (without engine-specific cutouts) | 1 |
| 142 | 209 1544 | | PANEL, ROOF (Left) | 1 |
| 143 | 230 7090 | | SIDE PANEL (on right side of superstructure) | |
| | | | (narrow panel to left of doors) | 1 |
| 144 | 230 7110 | | DOOR ASSEMBLY (on right side of superstructure) | |
| | | | (Left hinged, with latch cutouts) | 2 |
| 145 | 230 7130 | | DOOR ASSEMBLY (on right side of superstructure) | |
| | | | (Right hinged, no latch cutouts) | 2 |
| 146 | 230 7150 | | CENTER POST (on right side of superstructure) | |
| | | | (narrow panel between door sets) | 1 |
| 147 | 230 7170 | | SIDE PANEL (on right side of superstructure) | |
| | | | (narrow panel to right of doors) | 1 |
| 148 | 230 7190 | | SIDE PANEL (on left side of superstructure) | |
| | | | (narrow panel to left of doors) | 1 |
| 149 | | | DOOR ASSEMBLY (on left side of superstructure) | 1 |
| | 230 7200 | | (Left hinged, with latch and control access cutouts) | |
| | 234 2360 | | (Left hinged, with latch cutouts, **no** control access cutout) | |
| 150 | 230 7220 | | DOOR ASSEMBLY (on left side of superstructure) | |
| | | | (Right hinged, no latch cutouts) | 1 |
| 151 | 230 7240 | | SIDE PANEL (on left side of superstructure) | |
| | | | (wide panel to right of doors, with fuel filler cutout) | 1 |
| 152 | Call Simon | | DOOR ASSEMBLY, CONTROL ACCESS (option) | 1 |
| 153 | 10-004900 | | LATCH, FLUSH (locking, 9/16" x 1-1/8") | 6 |
| 154 | 07-029365 | | SCREW, HEX WASHER HEAD | |
| | | | (#12-14 x 1", self drilling, with rubber seal) | 64 |
| 155 | 07-044014 | | NUT, ACORN (1/4"-20, low crown, stainless steel) | 27 |
| 156 | 07-062014 | | WASHER, FLAT (1/4") | 27 |
| 157 | 10-138500 | | BUMPER, RECESSED (Rubber, 1" dia. x 1/2" high) | 10 |
| 158 | 07-044015 | | NUT, ACORN (5/16"-18, high crown, Grade 5) | 10 |
| 159 | 07-062015 | | WASHER, FLAT (5/16") | 10 |
| 160 | 10-128102 | | WASHER (Brass, .391" dia.) | 12 |
| 161 | 219 9690 | | COVER, FUEL TANK FILLER (option) | 1 |
| 162 | 218 1240 | | COVER, HYDRAULIC TANK FILLER (option) | 1 |
| 163 | 10-129100 | | WEATHERSTRIP (3/16" x 3/4" x 50 Ft [15.2 M]) | 2 |
| 164 | 353 8170 | | HOSE KIT, MP 110 SUPERSTRUCTURE (Special) | 1 |

TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 6 OF 7)




TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 6 OF 7)

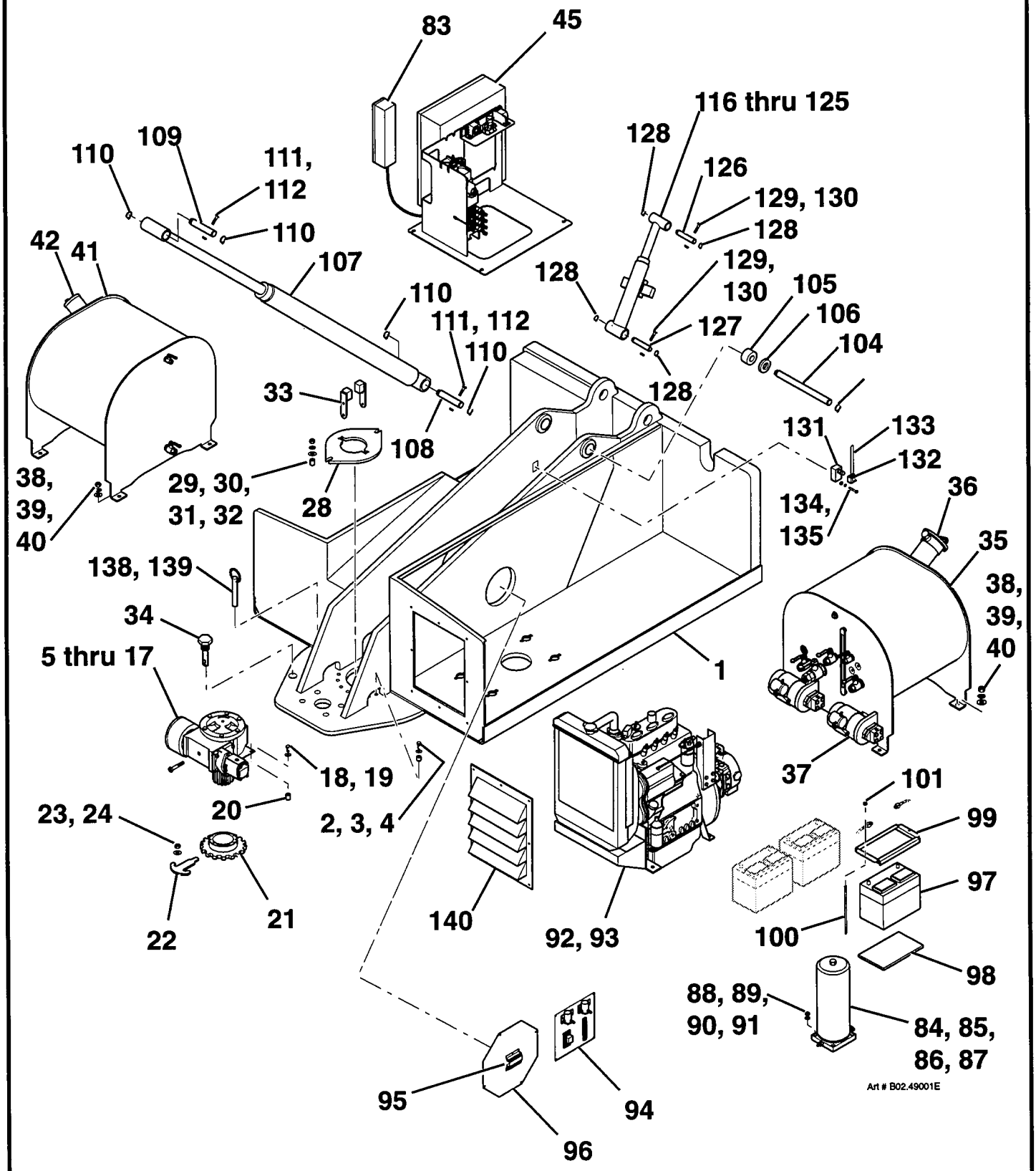
| SIMON AERIALS INC. NEW 17 NOV., 1994 | PART NO. | PLATE NO. B02.49 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 165 | 09-004600 | | CLAMP, WORM (1/4" to 5/8") | 4 |
| 166 | 2185280 | | CLAMP, HOSE | 1 |
| 167 | 07-003055 | | CAP SCREW, HEX HEAD (3/8"-16 x 3-1/2", Grade 5) | 2 |
| 168 | 07-062016 | | WASHER, FLAT (3/8") | 2 |
| 169 | 07-050016 | | NUT, TOP LOCK (3/8"-16, Grade 5) | 2 |
| 170 | 2098310 | | CLAMP (Nylon, 2 hole, #8) | 2 |
| 171 | 07-050015 | | NUT, LOCK (5/16"-18, Grade 5) | 2 |
| 172 | 07-062015 | | WASHER, FLAT (5/16") | 2 |
| 173 | 10-113000 | | PROTECTOR, HOSE (Neoprene, 8" x 12" x 1/8" thick) | 4 |
| 174 | 07-003026 | | CAP SCREW, HEX HEAD (5/16"-18 x 1-1/4", Grade 5) | 4 |
| 175 | 07-065015 | | WASHER, HELICAL LOCK (5/16") | 4 |
| 176 | 03-064700 | | TIE, CABLE (14-1/2" [368 mm] long) | 12 |
| 177 | 03-066400 | | TIE, CABLE (20" [508 mm] long) | 8 |

TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 7 OF 7)

| PLATE NO. | | PART NO. |
|---|---|---|
| B02.49 | **SIMON AERIALS INC.** NEW 17 NOV., 1994 | |




TITLE SUPERSTRUCTURE ASS'Y, MP 110 (EP, W/ KEEL BOOM) (PLATE 7 OF 7)

| SIMON AERIALS INC. NEW 17 NOV., 1994 | PART NO. | PLATE NO. B02.49 |
|---|---|---|

# PARTS LIST

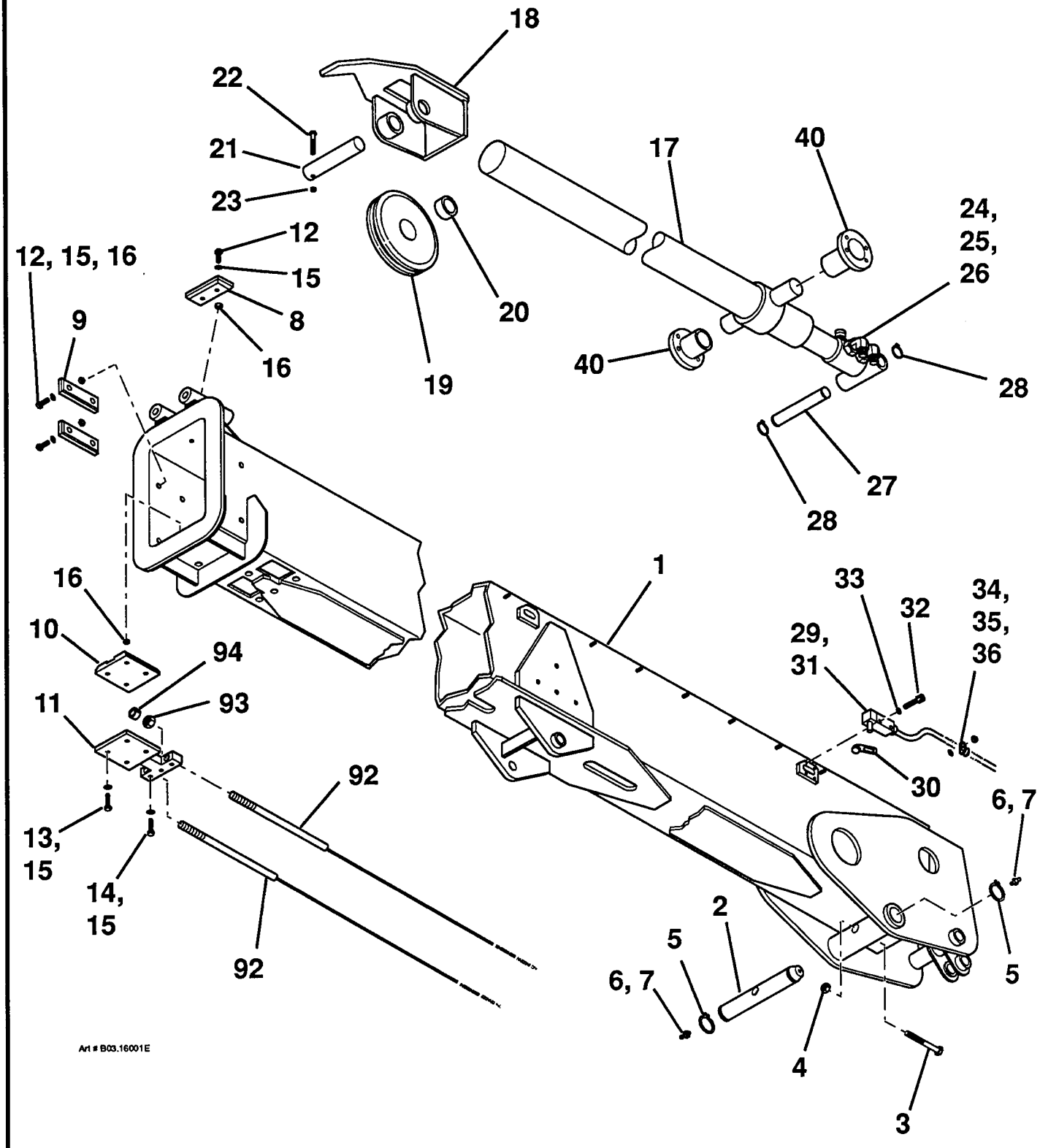
| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | 2097961 | | BOOM ASS'Y, MP 110 (some earlier units) | 1 |
| | 3520000 | | BOOM ASS'Y, MP 110 (with Hydraport control system) | 1 |
| | 3509737 | | BOOM ASS'Y, MP 110 (with Electro-proportional controls) | 1 |
| 1 | 2131570 | | BASE BOOM WELDMENT | 1 |
| 2 | 2091626 | | PIN, BOOM PIVOT (2-3/4" x 24-3/16") | 1 |
| 3 | 07-004139 | | CAP SCREW, HEX HEAD (5/8"-11 x 5", Grade 8) | 1 |
| 4 | 07-050021 | | NUT, STOP (5/8"-11, Grade 5) | 1 |
| 5 | 08-043300 | | RING, RETAINING (2-3/4") | 2 |
| 6 | 08-054000 | | FITTING, GREASE (1/4", straight) | A.R. |
| 7 | 08-066300 | | CAP, GREASE FITTING (White plastic) | A.R. |
| 8 | 2092522 | | PAD, WEAR (Base boom, rear, top) [10 x 4" (254 x 102 mm)] | 1 |
| 9 | 2092515 | | PAD, WEAR (Base boom, rear, side) [12 x 4" (305x102 mm)] | 4 |
| 10 | 2092506 | | PAD, WEAR (Base boom, rear, bottom) [12" x 11" (305 mm x 279 mm)] | 1 |
| 11 | 2131950 | | ANCHOR, WIRE ROPE (Base boom, rear, bottom) | 1 |
| 12 | 07-003123 | | CAP SCREW, HEX HEAD (5/8"-11 x 3/4", Grade 5) | 10 |
| 13 | 07-003128 | | CAP SCREW, HEX HEAD (5/8"-11 x 1-3/4", Grade 5) | 4 |
| 14 | 07-003127 | | CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 5) | 4 |
| 15 | 07-065021 | | WASHER, HELICAL LOCK (5/8") | 18 |
| 16 | 07-047021 | | NUT, HEX JAM (5/8"-11, Grade 5) | 14 |
| 17 | See index | D19. - - | CYLINDER, TELESCOPE | 1 |
| 18 | 2092438 | | BRACKET, TELESCOPE CYLINDER ROLLER | 1 |
| 19 | 2092056 | | ROLLER, TELESCOPE CYLINDER [8-1/8" (206 mm) dia.] | 1 |
| 20 | 08-061800 | | BUSHING | 1 |
| 21 | 2092221 | | PIN, TELESCOPE CYLINDER ROLLER (1-1/2" x 5-3/4") | 1 |
| 22 | 07-003093 | | CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5) | 1 |
| 23 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 1 |
| 24 | 04-011302 | | VALVE, HOLDING (Extend port) | 1 |
| 25 | 04-011303 | | VALVE, HOLDING (Retract port) | 1 |
| 26 | 06-044800 | | 90° ELBOW, STRAIGHT THREAD (8 C50X-S) | 2 |
| 27 | 2092786 | | PIN, TELESCOPE CYLINDER (1-1/2" x 15-13/16") | 1 |
| 28 | 08-040900 | | RING, RETAINING (1-1/2") | 2 |
| 29 | 03-493800 | | SWITCH, LIMIT (Side rotary, 2 N.O., 2 N.C. contacts) | 4 |
| 30 | 03-494000 | | ARM, LIMIT SWITCH | 4 |
| 31 | 03-041000 | | GRIP, CORD (1/2") | 4 |
| 32 | 07-008354 | | CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8) | 8 |
| 33 | 07-065011 | | WASHER, HELICAL LOCK (#10) | 8 |
| 34 | 10-061600 | | CLAMP, LOOP (1") | 10 |
| | 10-061000 | | CLAMP, LOOP (5/8") | 3 |
| | 10-060800 | | CLAMP, LOOP (1/2") | 3 |
| 35 | 07-062014 | | WASHER, FLAT (1/4") | 16 |
| 36 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 16 |

TITLE: BOOM ASSEMBLY, MP 110 (PLATE 1 OF 8, BASE BOOM)

PLATE NO. B03.16

**SIMON AERIALS INC.** REV. 20 DEC., 1993

PART NO.



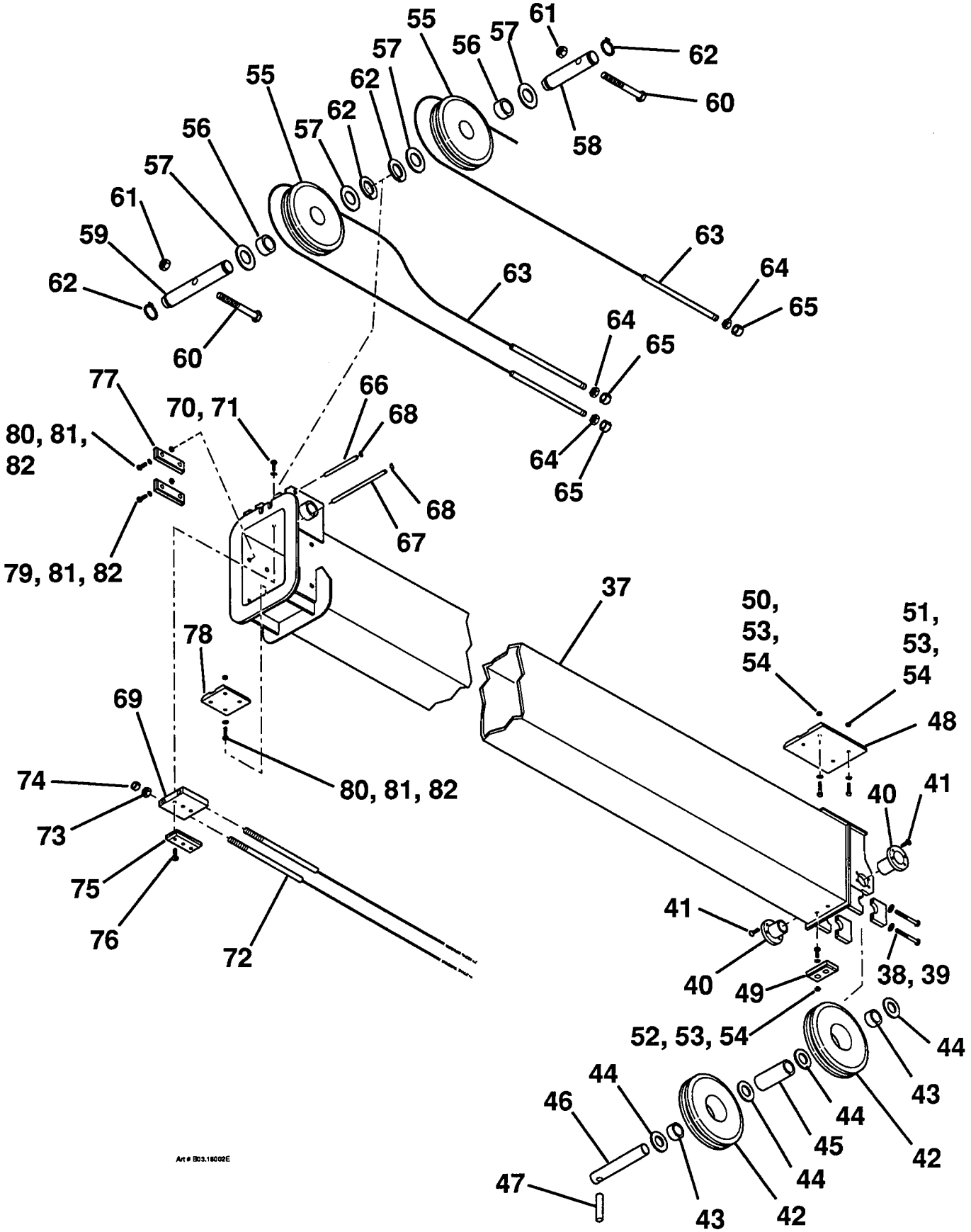

| TITLE | BOOM ASSEMBLY, MP 110 (PLATE 1 OF 8, BASE BOOM) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 20 DEC., 1993 | | PART NO. | PLATE NO. B03.16 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 37 | 2102140 | | BOOM WELDMENT, INNER MID (**Note:** "Inner" mid boom is second section from superstructure) | 1 |
| 38 | 07-004104 | | CAP SCREW, HEX HEAD (1/2"-13 x 5", Grade 8) | 4 |
| 39 | 07-06501 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 40 | 2092236 | | BUSHING, TELESCOPE CYLINDER TRUNNION | 2 |
| 41 | 07-090069 | | CAP SCREW, FLAT SOCKET HEAD (1/2"-13 x 1") | 8 |
| 42 | 2088994 | | SHEAVE, RETRACT ROPE [7-3/8" (187 mm) dia., for 3/8" (9.5 mm) wire rope] | 2 |
| 43 | 2089027 | | BEARING, WIRE ROPE SHEAVE | 2 |
| 44 | 2130600 | | SPACER, THRUST BEARING | 4 |
| 45 | 2131590 | | TUBE, SHEAVE SPACER (Inner mid section) | 1 |
| 46 | 2092214 | | SHAFT, RETRACT ROPE SHEAVE (2-1/2" x 12-1/4") | 1 |
| 47 | 07-090020 | | PIN, ROLL (1/2" x 3") | 1 |
| 48 | 2092483 | | PAD, WEAR (Inner mid boom, top, front) [13-1/2" x 12-1/2" (343 mm x 318 mm)] | 1 |
| 49 | 2092496 | | PAD, WEAR (Inner mid boom, bottom, front) [6" x 4" (152 mm x 102 mm)] | 1 |
| 50 | 07-003127 | | CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 5) | 2 |
| 51 | 07-003126 | | CAP SCREW, HEX HEAD (5/8"-11 x 1-1/4", Grade 5) | 2 |
| 52 | 07-003125 | | CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5) | 2 |
| 53 | 07-065021 | | WASHER, HELICAL LOCK (5/8") | 6 |
| 54 | 07-047021 | | NUT, HEX JAM (5/8"-11, Grade 5) | 6 |
| 55 | 2091600 | | SHEAVE, EXTEND ROPE [8-3/4" (222 mm) dia., for 1/2" (12.7 mm) wire rope] | 2 |
| 56 | 2089027 | | BEARING, WIRE ROPE SHEAVE | 2 |
| 57 | 2130600 | | SPACER, THRUST BEARING | 4 |
| 58 | 2091921 | | SHAFT, EXTEND ROPE SHEAVE (2-1/2" x 6-3/8") | 1 |
| 59 | 2100200 | | SHAFT, EXTEND ROPE SHEAVE (2-1/2" x 11") | 1 |
| 60 | 07-003098 | | CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 5) | 2 |
| 61 | 07-050018 | | NUT, TOP LOCK (1/2"-13, Grade 5) | 2 |
| 62 | 08-043000 | | RING, RETAINING (External, 1-1/2") | 3 |

TITLE BOOM ASSEMBLY, MP 110 (PLATE 2 OF 8, INNER MID BOOM)

PLATE NO. B03.16 | **SIMON AERIALS INC.** REV. 20 DEC., 1993 | PART NO.




TITLE BOOM ASSEMBLY, MP 110 (PLATE 2 OF 8, INNER MID BOOM)

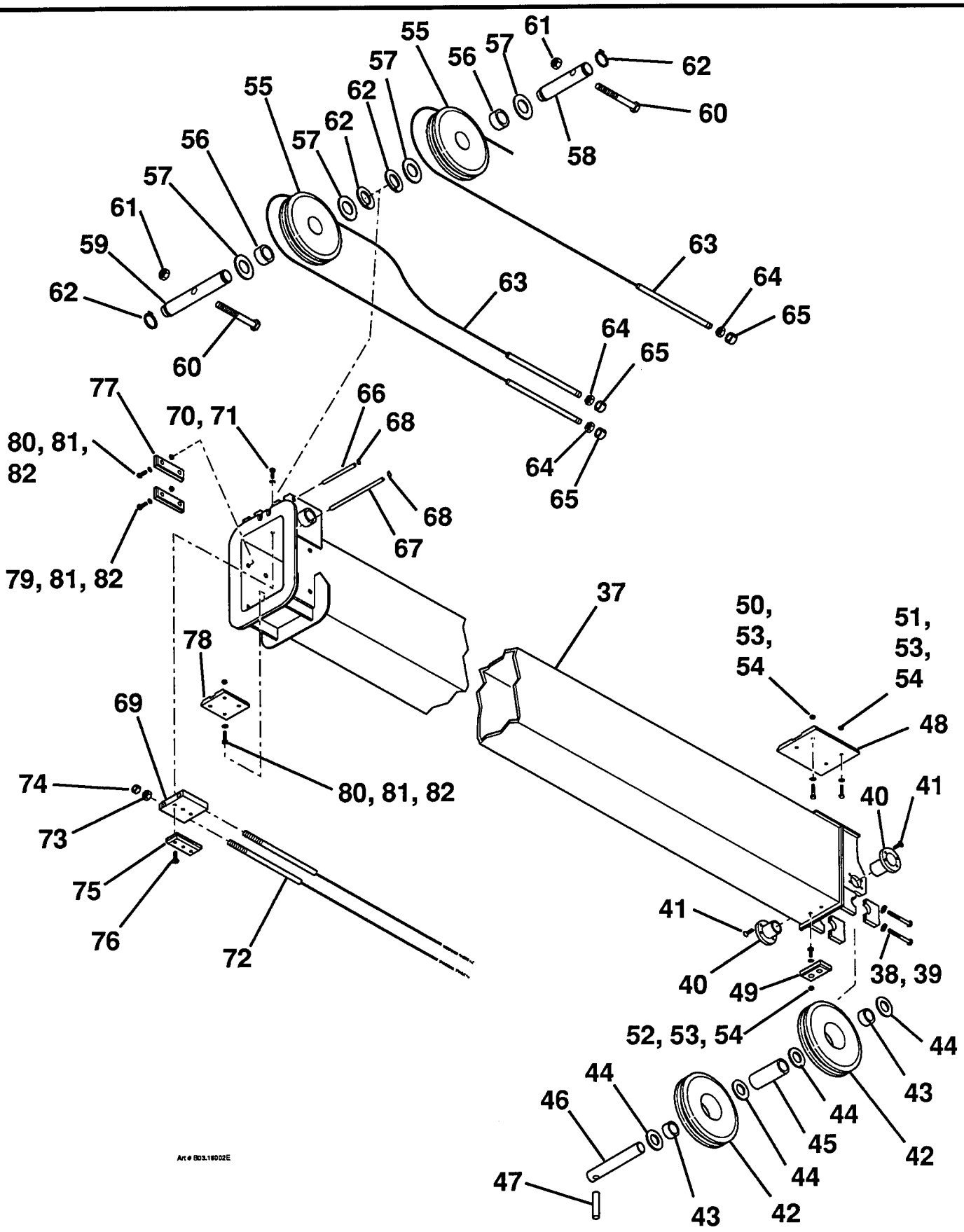
| SIMON AERIALS INC. REV. 20 DEC., 1993 | PART NO. | PLATE NO. B03.16 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 63 | 2092250 | | WIRE ROPE (outer mid boom extend) [1/2" (12.7 mm) x 378-5/8" (9617.08 mm)] | 2 |
| 64 | 07-090002 | | NUT, HEX (1"- 8) (rope anchor) | 4 |
| 65 | 08-055200 | | RING, LOCK (1"- 8) (rope anchor) | 4 |
| 66 | 2092678 | | PIN, WIRE ROPE GUIDE (3/4" x 4-5/8") | 2 |
| 67 | 2092696 | | PIN, WIRE ROPE GUIDE (3/4" x 13-3/4") | 1 |
| 68 | 08-040500 | | RING, RETAINING (3/4", external) | 6 |
| 69 | 2092364 | | PLATE, WIRE ROPE ANCHOR | 1 |
| 70 | 07-003127 | | CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 5) | 3 |
| 71 | 07-065021 | | WASHER, HELICAL LOCK (5/8") | 3 |
| 72 | 2092269 | | WIRE ROPE (tip boom retract) (includes pin) [3/8" (9.5 mm) x 391-3/8" (9940.92 mm)] | 2 |
| | | | **Note:** (3) 5/8" dia. x 12-1/8" long H.R.S. rods are welded to base end of inner mid-boom weldment to retain wire rope. These must be cut off in order to remove rope, and **must be replaced** after new rope is installed. **Upper rod must be cut** to provide clearance for telescope cylinder. Simon part number for rod is 2092652. | |
| 73 | 07-047022 | | NUT, HEX JAM (3/4"-10, Grade 5) | 2 |
| 74 | 08-016600 | | RING, LOCK (3/4"-10) (wire rope anchor) | 2 |
| 75 | 2092540 | | PAD, WEAR (Inner mid boom, top, rear) [5" x 6-1/2" (127 mm x 165 mm)] | 1 |
| 76 | 07-015125 | | MACHINE SCREW, FLAT HEAD (5/8"-11 x 1", Grade 5) | 3 |
| 77 | 2088619 | | PAD, WEAR (Inner mid boom, side, rear) [10" x 4" (254 mm x 102 mm)] | 4 |
| 78 | 2088626 | | PAD, WEAR (Inner mid boom, bottom, rear) [10" x 9" (254 mm x 229 mm)] | 1 |
| 79 | 07-003123 | | CAP SCREW, HEX HEAD (5/8"-11 x 3/4", Grade 5) | 4 |
| 80 | 07-003125 | | CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5) | 8 |
| 81 | 07-065021 | | WASHER, HELICAL LOCK (5/8") | 12 |
| 82 | 07-047021 | | NUT, HEX JAM (5/8"-11, Grade 5) | 12 |

TITLE BOOM ASSEMBLY, MP 110 (PLATE 3 OF 8, INNER MID BOOM)

PLATE NO. B03.16 | **SIMON AERIALS INC.** REV. 20 DEC., 1993 | PART NO.




TITLE BOOM ASSEMBLY, MP 110 (PLATE 3 OF 8, INNER MID BOOM)

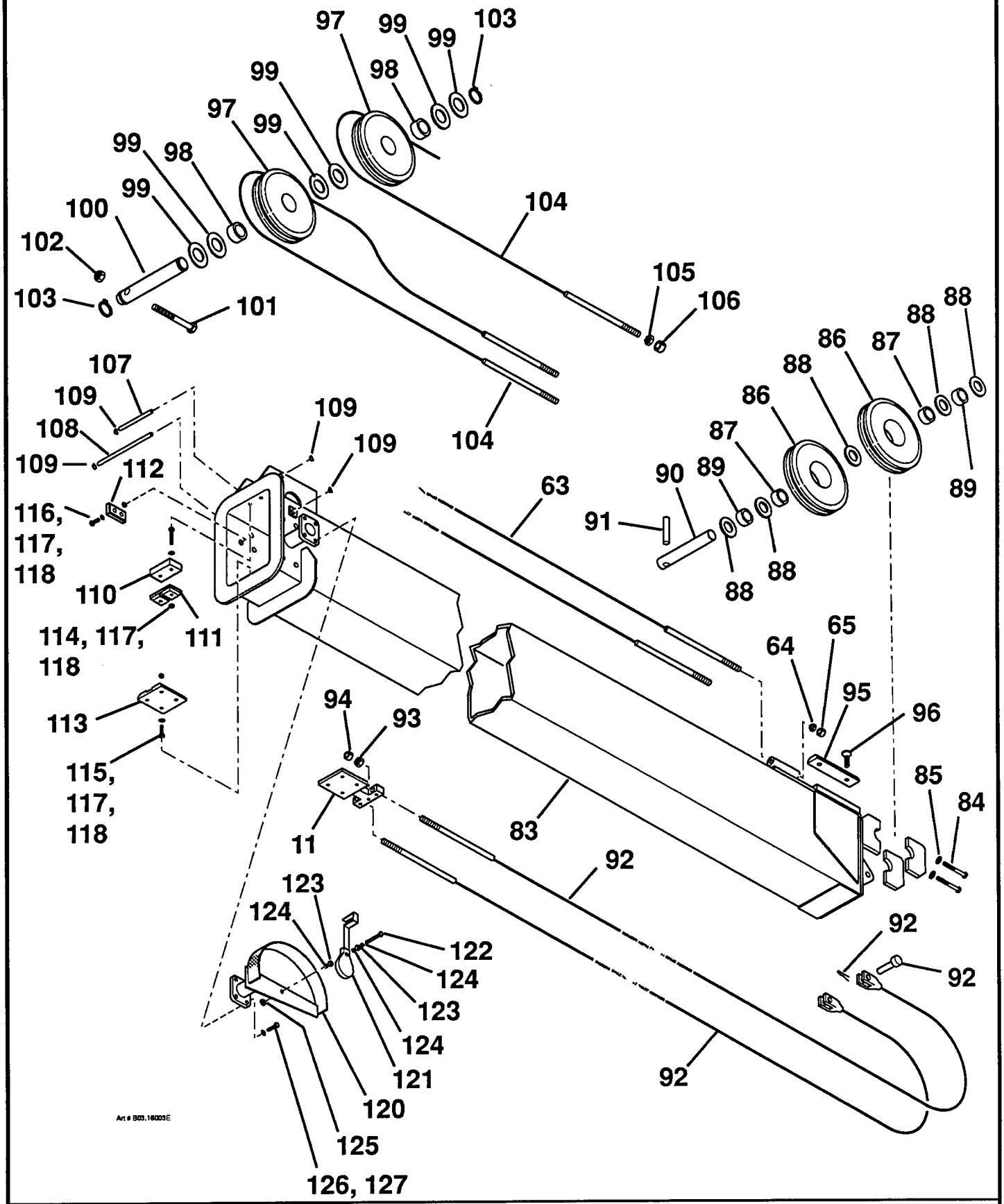
**SIMON AERIALS INC.** REV. 20 DEC., 1993 | PART NO. | PLATE NO. B03.16

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 83 | 2102130 | | BOOM WELDMENT, OUTER MID (**Note:** "Outer" mid boom is third section from superstructure) | 1 |
| 84 | 07-004104 | | CAP SCREW, HEX HEAD (1/2"-13 x 5", Grade 8) | 4 |
| 85 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 86 | 2088994 | | SHEAVE, RETRACT ROPE [7-3/8" (187 mm) dia., for 3/8" (9.5 mm) wire rope] | 2 |
| 87 | 2089027 | | BEARING, WIRE ROPE SHEAVE | 2 |
| 88 | 2130600 | | SPACER, THRUST BEARING | 5 |
| 89 | 2131600 | | TUBE, SHEAVE SPACER | 2 |
| 90 | 2092205 | | SHAFT, RETRACT ROPE SHEAVE (2-1/2" x 9-1/2") | 1 |
| 91 | 07-090020 | | PIN, ROLL (1/2" x 3") | 1 |
| 92 | 2092276 | | WIRE ROPE (outer mid boom retract) (includes pin) [3/8" (9.5 mm) x 391-3/8" (9617.08 mm)] | 2 |
| | | | **Note:** (3) 5/8" dia. x 9-1/4" long H.R.S. rods are welded to base end of outer mid-boom weldment to retain wire rope. These must be cut off in order to remove rope, and **must be replaced** after new rope is installed. Simon part number for rod is 2092641. | |
| 93 | 07-047022 | | NUT, HEX JAM (3/4"-10, Grade 5) | 2 |
| 94 | 08-016600 | | RING, LOCK (3/4"-10) (wire rope anchor) | 2 |
| 95 | 2092478 | | PAD, WEAR (Outer mid boom, top, front) [10" x 4" (254 mm x 102 mm)] | 2 |
| 96 | 07-015127 | | MACHINE SCREW, FLAT HEAD (5/8"-11 x 1-1/2", Grade 5) | 4 |
| 97 | 2091600 | | SHEAVE, EXTEND ROPE [8-3/4" (222 mm) dia., for 1/2" (12.7 mm) wire rope] | 2 |
| 98 | 2089027 | | BEARING, WIRE ROPE SHEAVE | 2 |
| 99 | 2130600 | | SPACER, THRUST BEARING | 6 |
| 100 | 2091936 | | SHAFT, EXTEND ROPE SHEAVE (2-1/2" x 8-1/2") | 1 |
| 101 | 07-003098 | | CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 5) | 1 |
| 102 | 07-050018 | | NUT, TOP LOCK (1/2"-13, Grade 5) | 2 |
| 103 | 08-043000 | | RING, RETAINING (External, 1-1/2") | 2 |
| 104 | 2092249 | | WIRE ROPE (tip boom extend) [1/2" (12.7 mm) x 385-5/8" (9794.88 mm)] | 2 |
| 105 | 07-090002 | | NUT, HEX (1"- 8) (wire rope anchor) | 4 |
| 106 | 08-055200 | | RING, LOCK (1"- 8) (wire rope anchor) | 4 |
| 107 | 2092661 | | PIN, WIRE ROPE GUIDE (3/4" x 6-3/4") | 1 |
| 108 | 2092683 | | PIN, WIRE ROPE GUIDE (3/4" x 11-1/2") | 1 |
| 109 | 08-040500 | | RING, RETAINING (3/4", external) | 4 |

TITLE BOOM ASSEMBLY, MP 110 (PLATE 4 OF 8, OUTER MID BOOM)

PLATE NO. B03.16 | **SIMON AERIALS INC.** REV. 20 DEC., 1993 | PART NO.



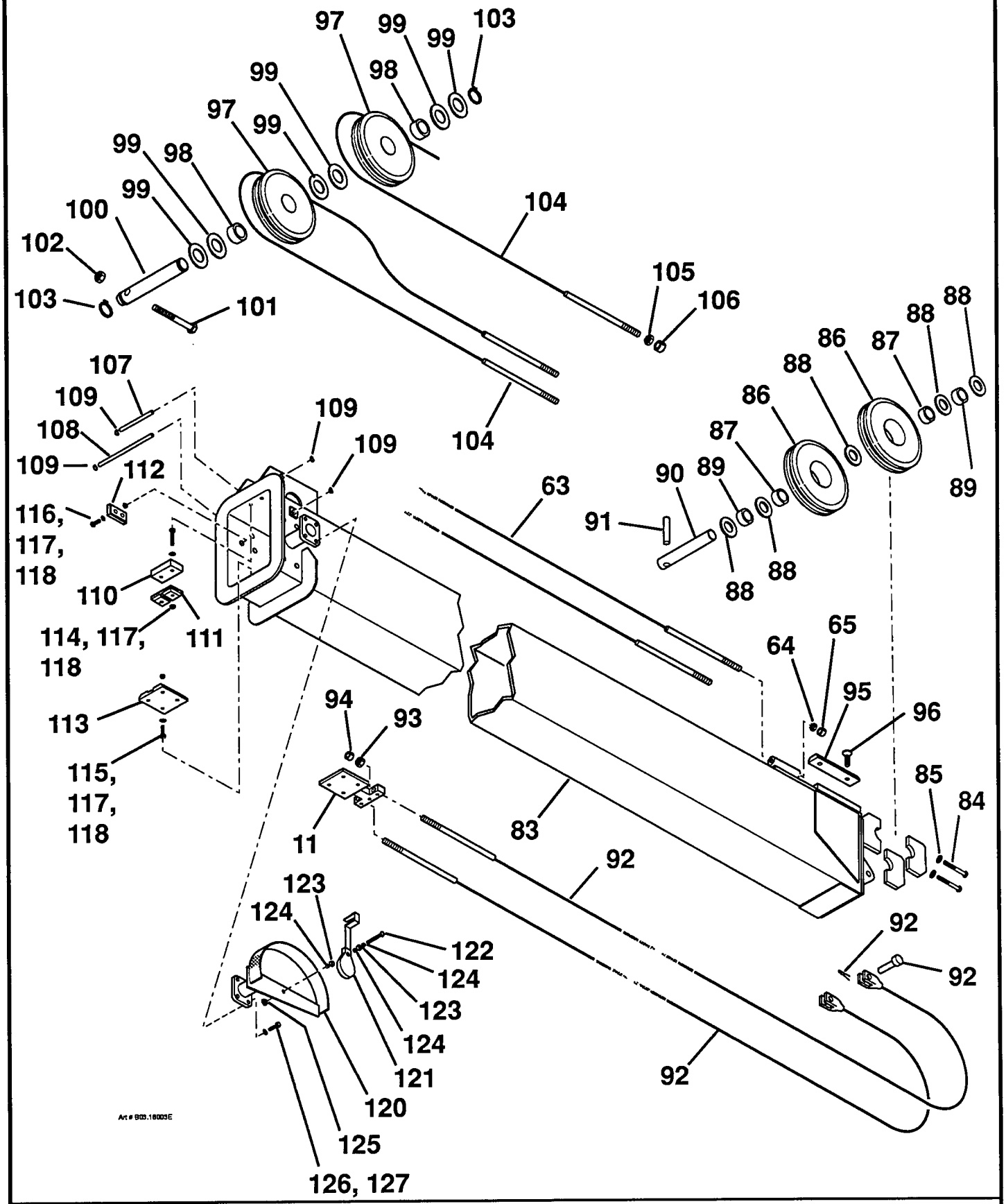

| | |
|---|---|
| TITLE | BOOM ASSEMBLY, MP 110 (PLATE 4 OF 8, OUTER MID BOOM) |
| **SIMON AERIALS INC.** REV. 20 DEC., 1993 | PART NO. / PLATE NO. B03.16 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 110 | 2092344 | | SPACER, WEAR PAD UPPER | 1 |
| 111 | 2092537 | | PAD, WEAR (Outer mid boom, top, rear) [7" x 3" (178 mm x 76 mm)] | 1 |
| 112 | 2088631 | | PAD, WEAR (Outer mid boom, side, rear) [8" x 3" (203 mm x 76 mm)] | 4 |
| 113 | 2088655 | | PAD, WEAR (Outer mid boom, bottom, rear) [8" x 7" (203 mm x 178 mm)] | 1 |
| 114 | 07-004132 | | CAP SCREW, HEX HEAD (5/8"-11 x 2-3/4", Grade 5) | 2 |
| 115 | 07-003125 | | CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5) | 4 |
| 116 | 07-003123 | | CAP SCREW, HEX HEAD (5/8"-11 x 3/4", Grade 5) | 8 |
| 117 | 07-065021 | | WASHER, HELICAL LOCK (5/8") | 14 |
| 118 | 07-047021 | | NUT, HEX JAM (5/8"-11, Grade 5) | 14 |
| 119 | 3531860 | | ANGLE INDICATOR ASSEMBLY | 1 |
| 120 | 2163340 | | INDICATOR, ANGLE (Painted) | 1 |
| 121 | 2073367 | | POINTER, ANGLE INDICATOR | 1 |
| 122 | 07-003053 | | CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5) | 1 |
| 123 | 08-058600 | | BEARING, BALL | 2 |
| 124 | 2306400 | | TUBE, SPACER | 3 |
| 125 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 1 |
| 126 | 07-003086 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5) | 4 |
| 127 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |

TITLE BOOM ASSEMBLY, MP 110 (PLATE 5 OF 8, OUTER MID BOOM)

PLATE NO. B03.16 | **SIMON AERIALS INC.** REV. 20 DEC., 1993 | PART NO.




TITLE BOOM ASSEMBLY, MP 110 (PLATE 5 OF 8, OUTER MID BOOM)

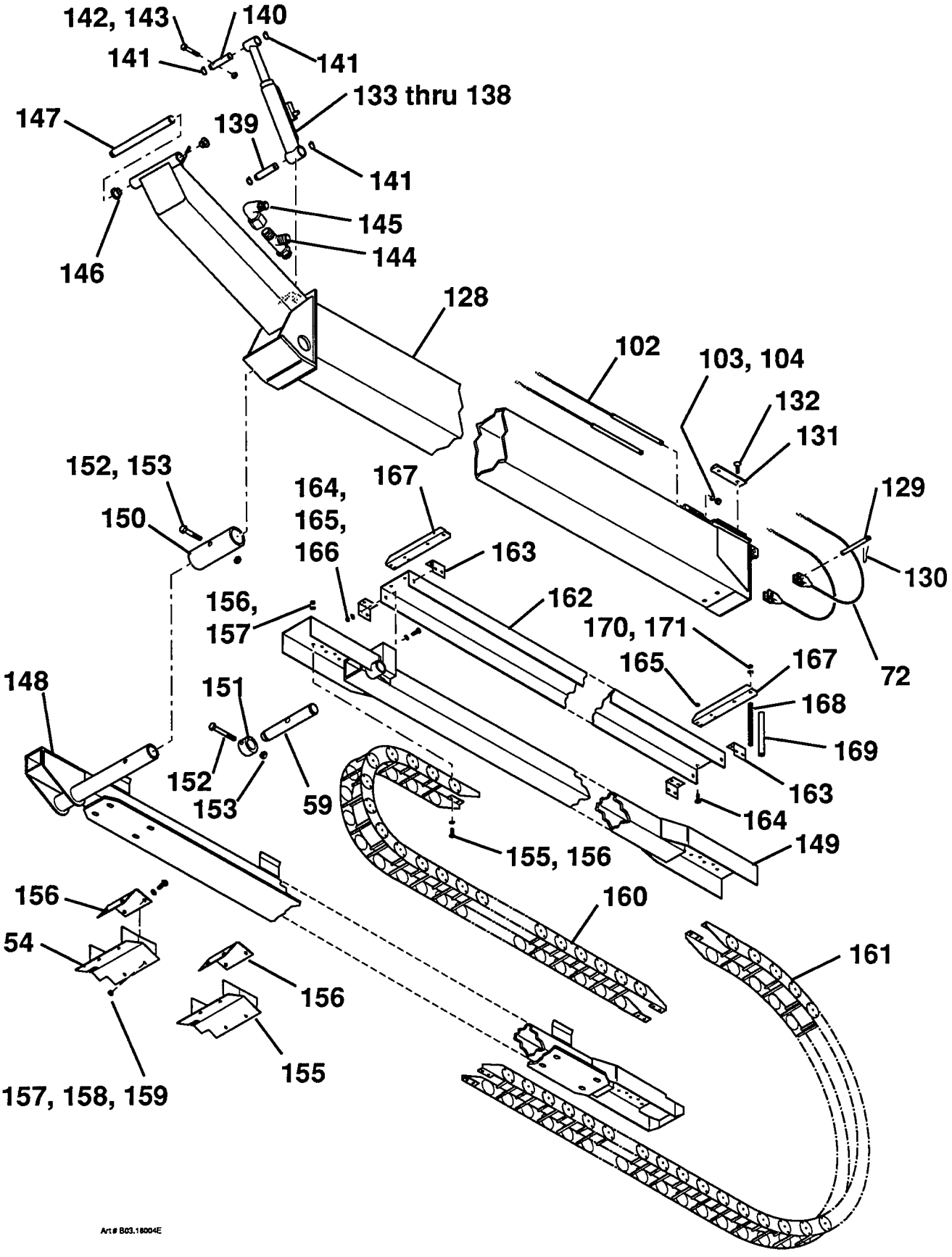
**SIMON AERIALS INC.** REV. 20 DEC., 1993 | PART NO. | PLATE NO. B03.16

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 128 | 2102150 | | BOOM WELDMENT, TIP | 1 |
| 129 | 2089131 | | PIN, TIP BOOM RETRACT ROPE ANCHOR (13/16" x 5") | 1 |
| 130 | 07-070506 | | PIN, COTTER (1/8" x 1-1/4") | 2 |
| 131 | 2092461 | | PAD, WEAR (Tip boom, top, front) | |
| | | | [8" x 3-1/4" (203 mm x 82.5 mm)] | 2 |
| 132 | 07-015127 | | MACHINE SCREW, FLAT HEAD (5/8"-11 x 1-1/2", Grade 5) | 4 |
| 133 | 3529740 | | CYLINDER ASSEMBLY, SLAVE LEVEL | 1 |
| 134 | See plate . . | D20. - - | CYLINDER, SLAVE LEVEL | 1 |
| 135 | 01-032500 | D21.01 | VALVE, HOLDING (1/4" cartridge) | 2 |
| 136 | 06-039500 | | ADAPTER, "O"-RING TO 37° (4-6 F50X-S) | 2 |
| 137 | 08-051300 | | FITTING, GREASE (1/8" NPT, 90°) | 1 |
| 138 | 08-050500 | | FITTING, GREASE (1/8" NPT, 45°) | 1 |
| 139 | 2068884 | | PIN, SLAVE LEVEL CYLINDER (Base end) (1-1/4" x 4-7/8") | 1 |
| 140 | 2068879 | | PIN, SLAVE LEVEL CYLINDER (Rod end) (1-1/4" x 7-3/8") | 1 |
| 141 | 08-040700 | | RING, RETAINING (1-1/4") | 4 |
| 142 | 07-003093 | | CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5) | 1 |
| 143 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 1 |
| 144 | 06-036300 | | RUN TEE, BULKHEAD (4 WJJTX-S) | 2 |
| 145 | 06-051300 | | 90° ELBOW, SWIVEL NUT (4 C6X-S) | 1 |
| 146 | 08-002200 | | BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" flange) | 2 |
| 147 | 2057046 | | PIN, PLATFORM PIVOT (1-1/4" x 15-5/16") | 1 |
| 148 | | | ANCHOR, MOVING (outer) | 1 |
| | call Simon | | for MP 110 up to S/N R104 | 1 |
| | 2092551 | | for MP 110 S/N R105 only | 1 |
| | 2098960 | | for MP 110 S/N R106 and up | 1 |
| 149 | | | ANCHOR, MOVING (inner) | 1 |
| | call Simon | | for MP 110 up to S/N R104 | 1 |
| | 2092560 | | for MP 110 S/N R105 only | 1 |
| | 2131710 | | for MP 110 S/N R106 and up | 1 |
| 150 | 2089278 | | PIPE, MOVING ANCHOR RETAINER (Outer) | 1 |
| 151 | 2100130 | | TUBE, MOVING ANCHOR RETAINER (Inner) | 1 |
| 152 | 07-003098 | | CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 5) | 1 |
| 153 | 07-050018 | | NUT, TOP LOCK (1/2"-13, Grade 5) | 2 |
| 154 | 2131440 | | SUPPORT, MOVING ANCHOR (Mid boom outer) | 1 |
| 155 | 2131430 | | SUPPORT, MOVING ANCHOR (Mid boom inner) | 1 |
| 156 | 2131250 | | PAD, WEAR (Moving anchor) | |
| | | | [8-1/2" x 11" (216 mm x 279 mm) x 1/8" (3.18 mm) thick] | 6 |
| 157 | 07-017046 | | CAP SCREW, BUTTON HEAD (3/8"-16 x 1-1/4", Grade 5) | 40 |
| 158 | 07-062016 | | WASHER, FLAT (3/8") | 40 |
| 159 | 07-050016 | | NUT, TOP LOCK (3/8"-16, Grade 5) | 40 |

TITLE BOOM ASSEMBLY, MP 110 (PLATE 6 OF 8, TIP BOOM)

PLATE NO. B03.16 | **SIMON AERIALS INC.** REV. 20 DEC., 1993 | PART NO.

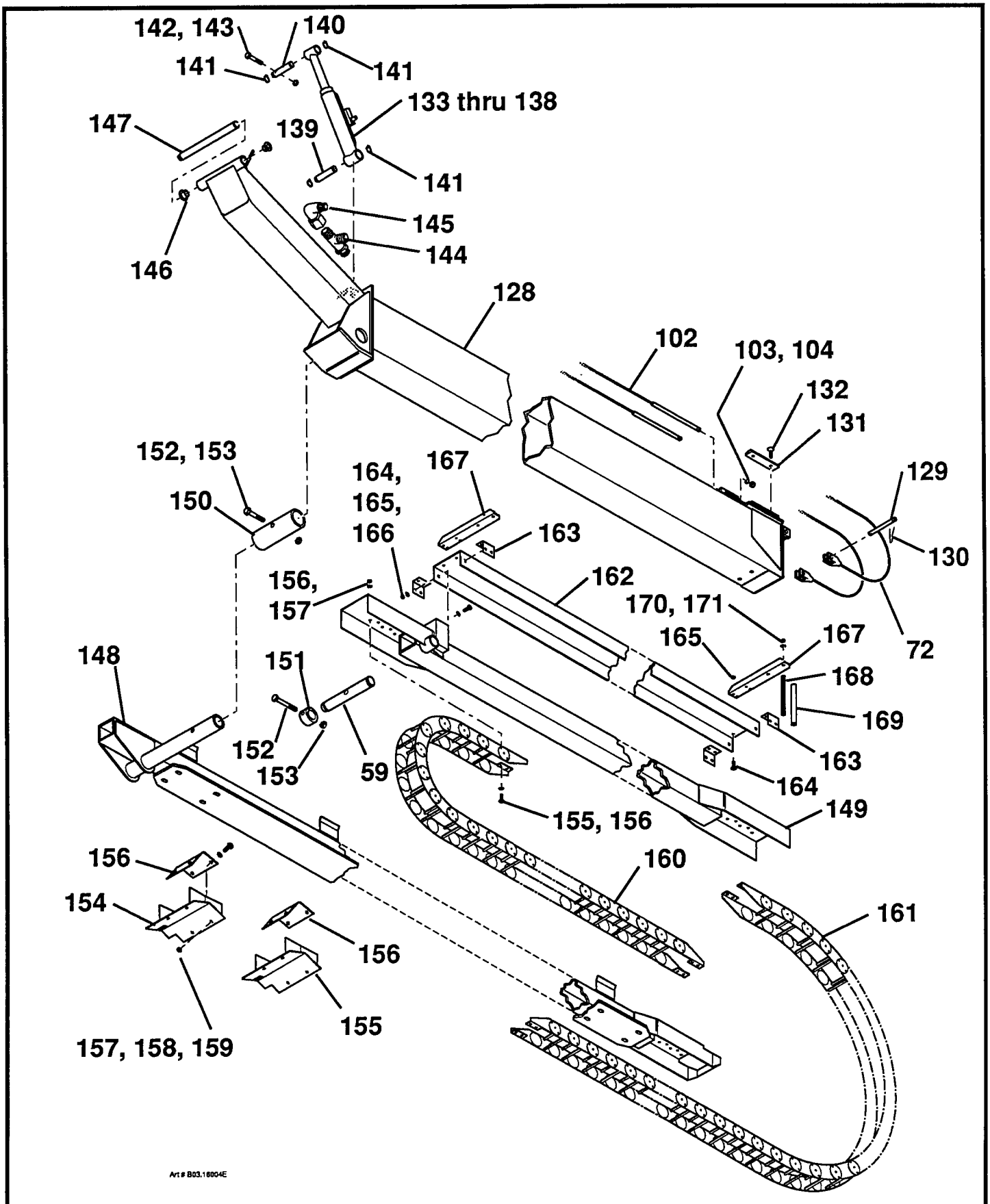



| TITLE | BOOM ASSEMBLY, MP 110 (PLATE 6 OF 8, TIP BOOM) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 20 DEC., 1993 | PART NO. | PLATE NO. B03.16 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 160 | See plate . . | F03. - - | CARRIER, HOSE (Hose track) (Outer) | 1 |
| 161 | See plate . . | F03. - - | CARRIER, HOSE (Hose track) (Inner) | 1 |
| 162 | 2080857 | | COVER, HOSE CARRIER | 3 |
| 163 | 2080909 | | BRACKET, HOSE CARRIER COVER | 8 |
| 164 | 07-017046 | | CAP SCREW, BUTTON HEAD (3/8"-16 x 1-1/4", Grade 5) | 24 |
| 165 | 07-050016 | | NUT, TOP LOCK (3/8"-16, Grade 5) | 24 |
| 166 | 07-062016 | | WASHER, FLAT (3/8") | 32 |
| 167 | 2099930 | | BRACKET, HOSE CARRIER COVER | 4 |
| 168 | 2100020 | | ROD, THREADED | 8 |
| 169 | 2100030 | | TUBE, SPACER | 8 |
| 170 | 07-040018 | | NUT, HEX (1/2"-13, Grade 5) | 8 |
| 171 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 8 |
| 172 | 03-085700 | | CABLE, ELECTRICAL (4 conductor, #16 AWG) [Bulk item, order as needed. 75 Ft (22.9 M) needed this application.] | A.R. |
| 173 | 03-085000 | | CABLE, ELECTRICAL (24 conductor, #16 AWG) [Bulk item, order as needed. 140 Ft (42.7 M) needed this application.] | A.R. |
| 174 | 03-085900 | | CABLE, ELECTRICAL (3 conductor, #12 AWG) [Bulk item, order as needed. 140 Ft (42.7 M) needed this application.] | A.R. |
| 175 | 03-064700 | | TIE, CABLE [14-1/2" (373 mm) long] | 10 |

| | | | | |
|---|---|---|---|---|
| TITLE | BOOM ASSEMBLY, MP 110 (PLATE 7 OF 8, TIP BOOM) | | | |
| PLATE NO. | B03.16 | **SIMON AERIALS INC.** | REV. 20 DEC., 1993 | PART NO. |



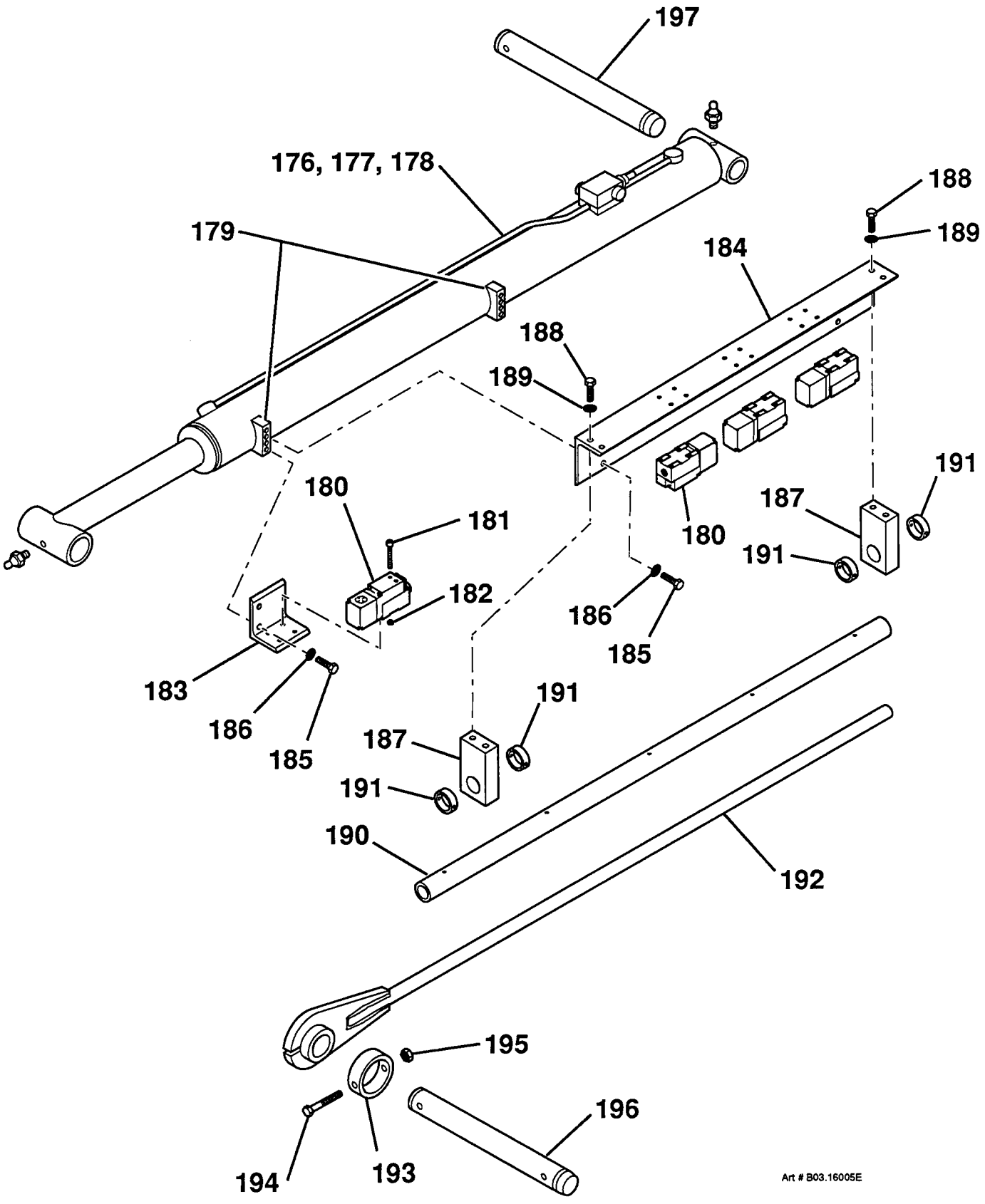

| TITLE | BOOM ASSEMBLY, MP 110 (PLATE 7 OF 8, TIP BOOM) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 20 DEC., 1993 | | PART NO. | PLATE NO. B03.16 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 176 | 2144320 | | CYLINDER ASSEMBLY, BOOM LIFT (MP 110) | 1 |
| 177 | | | CYLINDER, BOOM LIFT (Modified) | 1 |
| 178 | See Index . . | D09. - - | CYLINDER ASSEMBLY, BOOM LIFT | 1 |
| 179 | 2144160 | | PLATE, BOOM ANGLE SENSOR SUPPORT | 2 |
| 180 | 03-417200 | | SWITCH, PROXIMITY | 4 |
| 181 | 07-008356 | | CAP SCREW, SOCKET HEAD (#10-24 x 1-3/4", Grade 8) | 8 |
| 182 | 07-050011 | | NUT, LOCK (#10-24, Grade 2) | 8 |
| 183 | 2197370 | | ANGLE BRACKET, SWITCH SUPPORT | 1 |
| 184 | 2144170 | | ANGLE BRACKET, SWITCH AND TUBE SUPPORT | 1 |
| 185 | 07-003085 | | CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5) | 6 |
| 186 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 187 | 2144180 | | BRACKET, BOOM ANGLE SENSOR | 2 |
| 188 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 4 |
| 189 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 4 |
| 190 | 2144150 | | TUBE, BOOM ANGLE SENSOR | 1 |
| 191 | 08-066200 | | COLLAR, SET SCREW (1-3/8" I.D.) | 4 |
| 192 | 2197380 | | ROD, TARGET (Boom angle sensor) | 1 |
| 193 | 2100130 | | RETAINER, TARGET ROD (2-1/2" dia.) | 1 |
| 194 | 07-003098 | | CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 5) | 1 |
| 195 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 1 |
| 196 | 2144200 | | PIN, LIFT CYLINDER (2-1/2" x 18-1/16") (Rod end) | 1 |
| 197 | 2091619 | | PIN, LIFT CYLINDER (2-1/2" x 24-3/16") (Base end) | 1 |

TITLE BOOM ANGLE SENSOR ASSEMBLY, MP 110 (PLATE 8 OF 8)

PLATE NO. B03.16 | **SIMON AERIALS INC.** REV. 20 DEC., 1993 | PART NO.



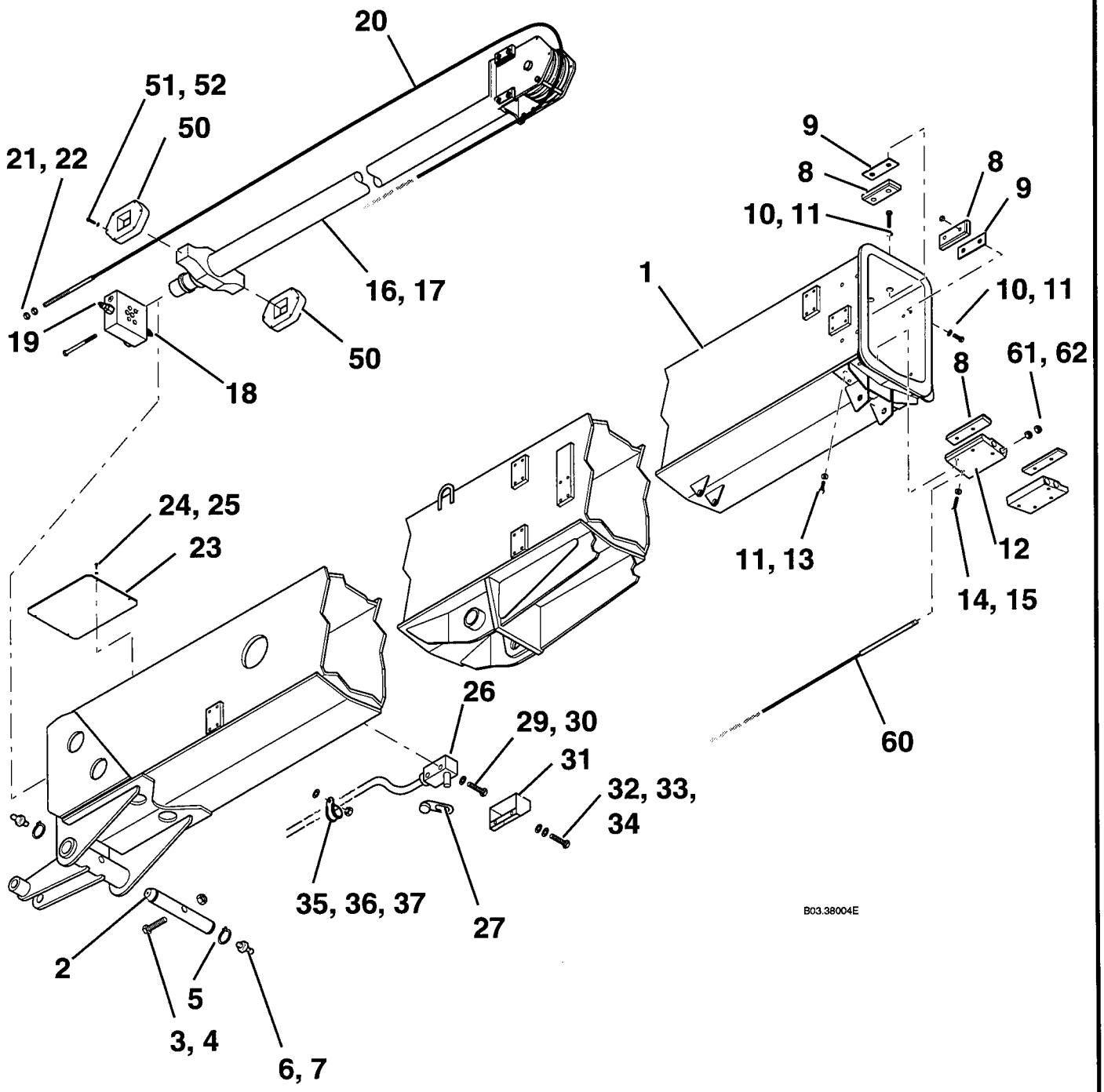

| TITLE | BOOM ANGLE SENSOR ASSEMBLY, MP 110 (PLATE 8 OF 8) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 20 DEC., 1993 | PART NO. | PLATE NO. B03.16 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | BOOM ASSEMBLY | 1 |
| | 353 7910 | | for use with standard Platform | |
| | 354 2020 | | for use with optional "End Mount" Platform | |
| 1 | | | BASE BOOM WELDMENT | 1 |
| | 353 7910 001 | | for use with standard Platform (shown) | |
| | 234 7080 | | for use with optional "End Mount" Platform | |
| 2 | 209 1626 | | PIN, BOOM PIVOT (2-3/4" x 24-3/16") | 1 |
| 3 | 07-004140 | | CAP SCREW, HEX HEAD (5/8"-11 x 5-1/2", Grade 8) | 1 |
| 4 | 07-050021 | | NUT, STOP (5/8"-11, Grade 5) | 1 |
| 5 | 08-043300 | | RING, RETAINING (2-3/4") | 2 |
| 6 | 08-050000 | | FITTING, GREASE (1/8", straight) | 2 |
| 7 | 08-066300 | | CAP, GREASE FITTING (White plastic) | 2 |
| 8 | 353 7910 007 | | PAD, WEAR (Base boom rear) (1-3/4 x 6-3/4" [44 x 171 mm]) | 8 |
| 9 | 353 7910 008 | | SHIM (1-3/4" x 6-3/4" x .040" [44 x 171 x 1.016 mm]) | A.R. |
| | 353 7910 009 | | SHIM (1-3/4" x 6-3/4" x .063" [44 x 171 x 1.600 mm]) | A.R. |
| | 353 7910 010 | | SHIM (1-3/4" x 6-3/4" x .100" [44 x 171 x 2.540 mm]) | A.R. |
| 10 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 12 |
| 11 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 16 |
| 12 | 353 7910 005 | | BLOCK, RETRACT CABLE SUPPORT | 2 |
| 13 | 07-003048 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-3/4", Grade 5) | 4 |
| 14 | 07-003046 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5) | 4 |
| 15 | 07-114300 | | WASHER, FLAT (3/8", hardened) | 4 |
| 16 | 353 7910 006 | | CYLINDER ASSEMBLY, TELESCOPE | 1 |
| 17 | 04-053600 | D19. - - | CYLINDER, TELESCOPE | 1 |
| 18 | 04-053603 | | VALVE, COUNTERBALANCE (stamped "CA**EA**-LHN", pre-set to 3000 PSI [206.9 bar] [210.9 Kg/ $cm^2$]) | 1 |
| 19 | 04-053604 | | VALVE, COUNTERBALANCE (stamped "CA**CA**-LHN", pre-set to 3000 PSI [206.9 bar] [210.9 Kg/ $cm^2$]) | 1 |
| 20 | 353 7910 011 | | WIRE ROPE (3rd stage [outer mid boom] extend) (7/16" [11.1 mm] dia. x 620-13/16" [15.769 M] long) | 4 |
| 21 | 07-040017 | | NUT, HEX (7/16"-14, Grade 5) | 4 |
| 22 | 07-114400 | | NUT, HEX JAM (7/16"-14) | 4 |

TITLE KEEL BOOM ASSEMBLY, MP 110 (PLATE 1 OF 9, BASE BOOM)

PLATE NO. B03.38 | **SIMON AERIALS INC.** REV. 29 NOV., 1995 | PART NO.



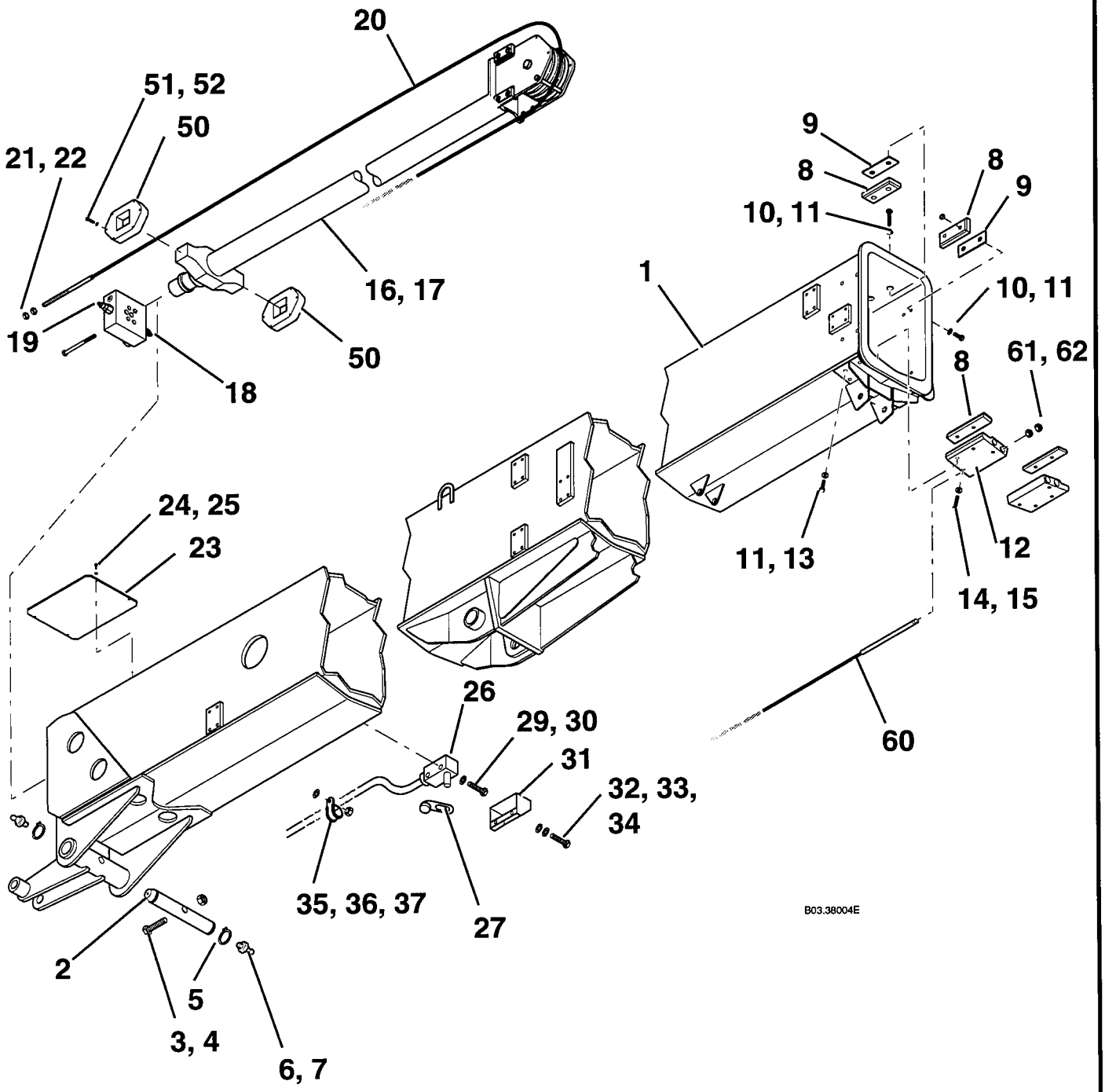

| TITLE | KEEL BOOM ASSEMBLY, MP 110 (PLATE 1 OF 9, BASE BOOM) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 29 NOV., 1995 | PART NO. | PLATE NO. B03.38 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 23 | 353 7910 012 | | COVER PLATE, BASE BOOM | 1 |
| 24 | 07-114500 | | SCREW (5/16"-18 x 3/4", self-tapping) | 12 |
| 25 | 07-065015 | | WASHER, HELICAL LOCK (5/16") | 16 |
| 26 | 03-493800 | | SWITCH, LIMIT (Side rotary, 2 normally open, 2 normally closed contacts) | 4 |
| 27 | 03-494300 | | ARM, LIMIT SWITCH (Fixed roller, 2.5") | 4 |
| 28 | 03-045500 | | GRIP, CORD (1/2", with .31" to .38" seal) | 4 |
| 29 | 07-008356 | | CAP SCREW, SOCKET HEAD (#10-24 x 1-3/4", Grade 8) | 8 |
| 30 | 07-065011 | | WASHER, HELICAL LOCK (#10) | 8 |
| 31 | 200 9322 | | COVER, LIMIT SWITCH | 4 |
| 32 | 07-003022 | | CAP SCREW, HEX HEAD (5/16"-18 x 5/8") | |
| 33 | 07-065015 | | WASHER, HELICAL LOCK (5/16") | 8 |
| 34 | 07-062014 | | WASHER, FLAT (1/4") | 8 |
| 35 | 10-061600 | | CLAMP, LOOP (1") | 4 |
| | 10-061000 | | CLAMP, LOOP (5/8") | 2 |
| | 10-061200 | | CLAMP, LOOP (3/4") | 3 |
| | 10-060600 | | CLAMP, LOOP (3/8") | 2 |
| 36 | 07-062014 | | WASHER, FLAT (1/4") | A.R. |
| 37 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | A.R. |

TITLE KEEL BOOM ASSEMBLY, MP 110 (PLATE 2 OF 9, BASE BOOM)

PLATE NO. B03.38 | **SIMON AERIALS INC.** REV. 29 NOV., 1995 | PART NO.

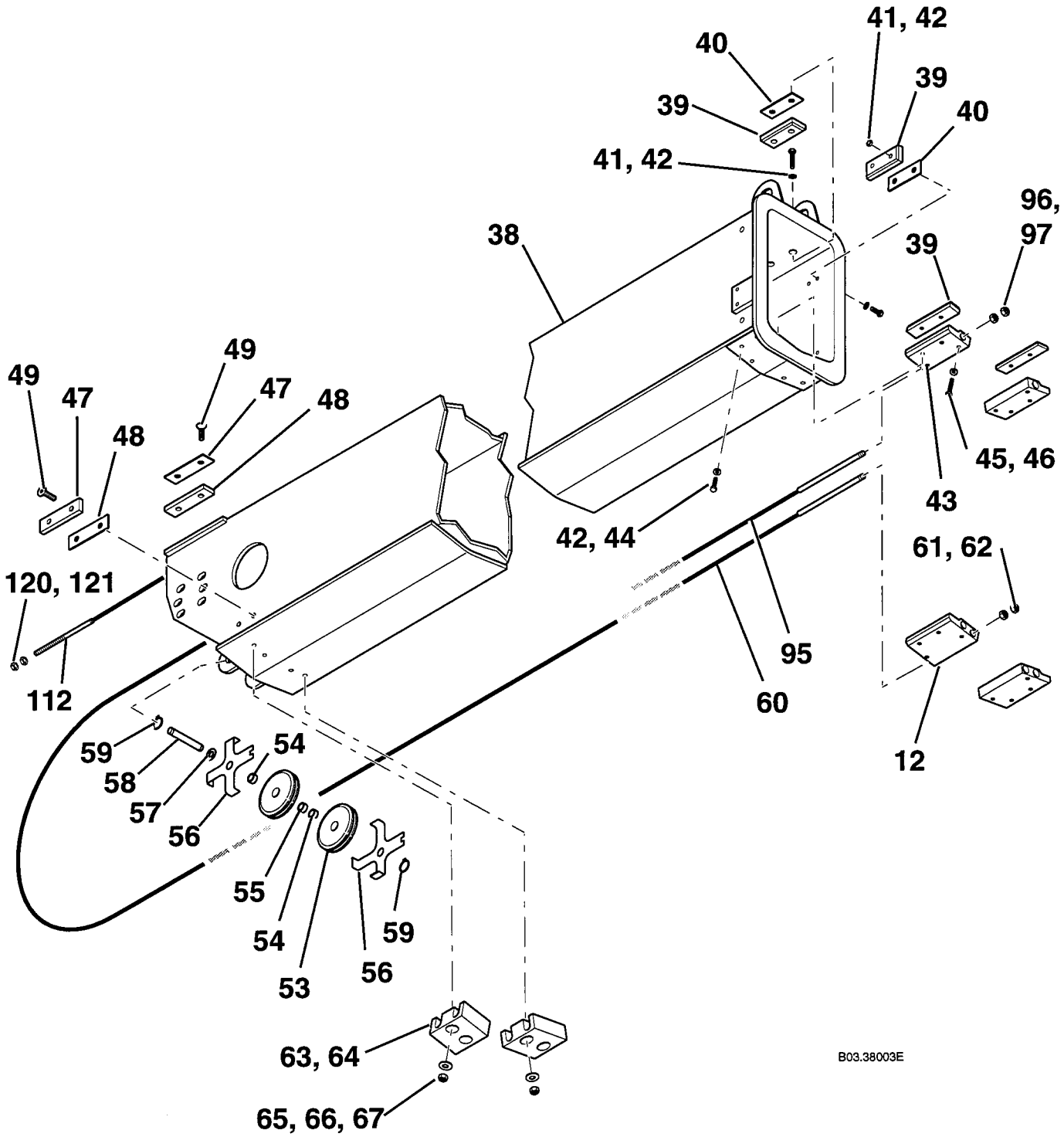



| TITLE | KEEL BOOM ASSEMBLY, MP 110 (PLATE 2 OF 9, BASE BOOM) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 29 NOV., 1995 | PART NO. | PLATE NO. B03.38 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 38 | 353 7910 002 | | INNER MID BOOM WELDMENT | 1 |
| | | | (**Note:** "Inner" mid boom or "second stage" boom segment is second section from superstructure) | 1 |
| 39 | 353 7910 007 | | PAD, WEAR (Mid boom rear) (1-3/4 x 6-3/4" [44 x 171 mm]) | 8 |
| 40 | 353 7910 008 | | SHIM (1-3/4" x 6-3/4" x .040" [44 x 171 x 1.016 mm]) | A.R. |
| | 353 7910 009 | | SHIM (1-3/4" x 6-3/4" x .063" [44 x 171 x 1.600 mm]) | A.R. |
| | 353 7910 010 | | SHIM (1-3/4" x 6-3/4" x .100" [44 x 171 x 2.540 mm]) | A.R. |
| 41 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 12 |
| 42 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 16 |
| 43 | 353 7910 013 | | BLOCK, RETRACT CABLE SUPPORT | 2 |
| 44 | 07-003048 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-3/4", Grade 5) | 4 |
| 45 | 07-003046 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5) | 4 |
| 46 | 07-114300 | | WASHER, FLAT (3/8", hardened) | 4 |
| 47 | 353 7910 014 | | PAD, WEAR (Mid boom front) (1-3/4 x 7" [44 x 171 mm]) | 4 |
| 48 | 353 7910 008 | | SHIM (1-3/4" x 6-3/4" x .040" [44 x 171 x 1.016 mm]) | A.R. |
| | 353 7910 009 | | SHIM (1-3/4" x 6-3/4" x .063" [44 x 171 x 1.600 mm]) | A.R. |
| | 353 7910 010 | | SHIM (1-3/4" x 6-3/4" x .100" [44 x 171 x 2.540 mm]) | A.R. |
| 49 | 07-114600 | | CAP SCREW, FLAT HEAD (3/8"-16 x 1-1/4", Grade 5) | 8 |
| 50 | 353 7910 015 | | SUPPORT, TELESCOPE CYLINDER TRUNNION | 2 |
| 51 | 07-114700 | | CAP SCREW, HEX HEAD (3/4"-10 x 1-3/4", Grade 8) | 12 |
| 52 | 07-061022 | | WASHER, FLAT (3/4", SAE, hardened) | 12 |
| 53 | 353 7910 016 | | SHEAVE, RETRACT ROPE (8" [203 mm] dia., for 7/16" [11.1 mm] wire rope) | 4 |
| 54 | 353 7910 017 | | BEARING, ROLLER (inner race) | 4 |
| 55 | 353 7910 018 | | SPACER, RETRACT ROPE SHEAVE | 2 |
| 56 | 353 7910 019 | | RETAINER, RETRACT ROPE | 4 |
| 57 | 353 7910 020 | | BUSHING (1.25" I.D., #18 Ga.) | A.R. |
| 58 | 353 7910 021 | | SHAFT, RETRACT ROPE SHEAVE | 2 |
| 59 | 353 7910 048 | | RING, RETAINING | 4 |
| 60 | 353 7910 022 | | WIRE ROPE (3rd stage [outer mid boom] retract) (3/8" [9.5 mm] x 397-7/16" [10.095 M] long) | 4 |
| 61 | 07-040022 | | NUT, HEX (3/4"-10, Grade 5) | 4 |
| 62 | 07-047022 | | NUT, HEX JAM (3/4"-10, Grade 5) | 4 |
| 63 | 353 7910 023 | | GUIDE, RETRACT ROPE | 2 |
| 64 | 353 7910 024 | | SHIM, CABLE GUIDE | 2 |
| 65 | 07-003026 | | CAP SCREW, HEX HEAD (5/16"-18 x 1-1/4", Grade 5) | 4 |
| 66 | 07-114800 | | WASHER, FLAT (5/16", hardened) | 8 |
| 67 | 07-050015 | | NUT, LOCK (5/16"-18, Grade 5) | 4 |

TITLE KEEL BOOM ASSEMBLY, MP 110 (PLATE 3 OF 9, INNER MID BOOM)



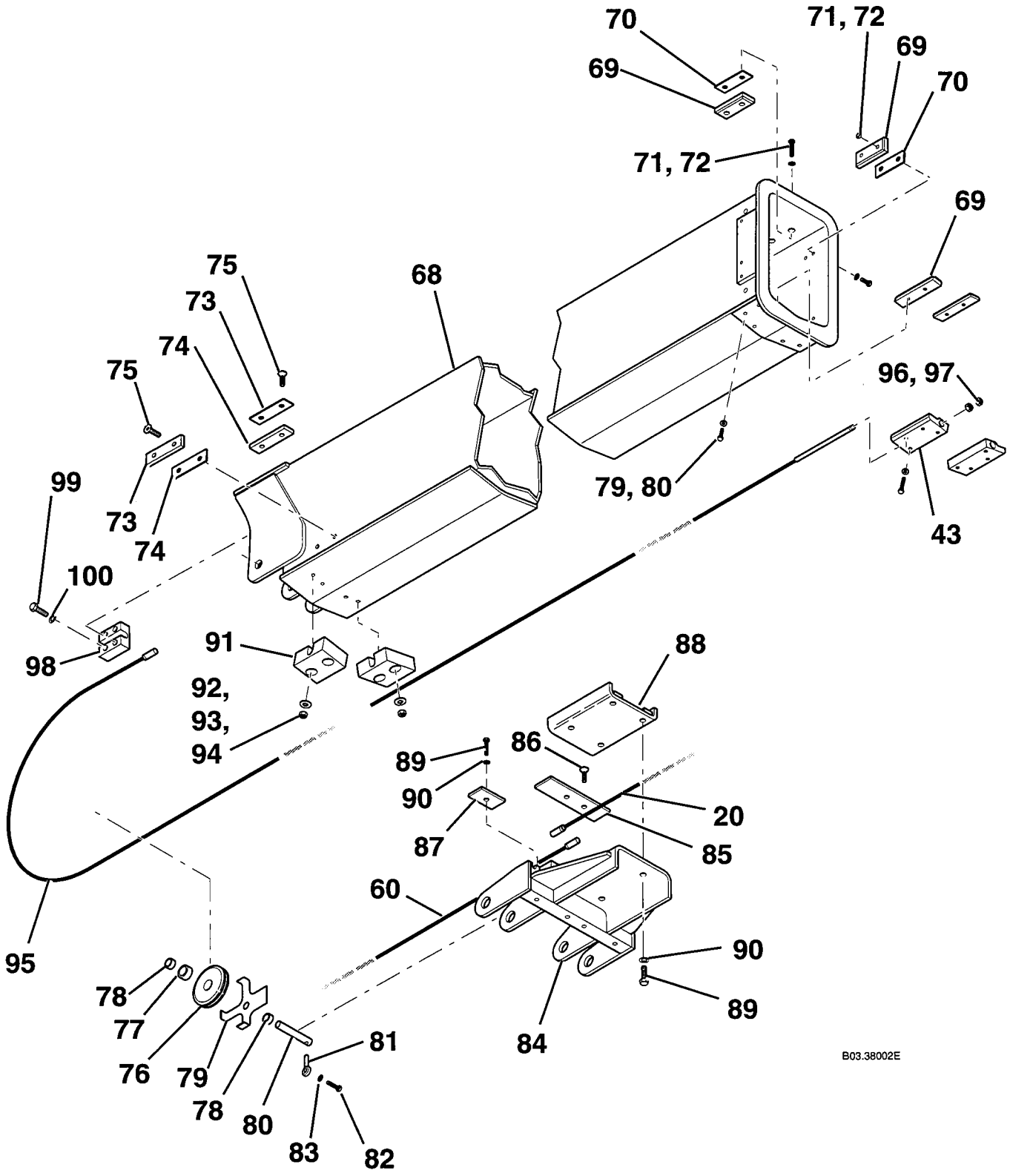

| | | | |
|---|---|---|---|
| TITLE | KEEL BOOM ASSEMBLY, MP 110 (PLATE 3 OF 9, INNER MID BOOM) | | |
| **SIMON AERIALS INC.** | REV. 29 NOV., 1995 | PART NO. | PLATE NO. B03.38 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 68 | 353 7910 003 | | OUTER MID BOOM WELDMENT | 1 |
| | | | (**Note:** "Outer" mid boom or "third stage" boom segment is third section from superstructure) | 1 |
| 69 | 353 7910 007 | | PAD, WEAR (Mid boom rear) (1-3/4 x 6-3/4" [44 x 171 mm]) | 8 |
| 70 | 353 7910 008 | | SHIM (1-3/4" x 6-3/4" x .040" [44 x 171 x 1.016 mm]) | A.R. |
| | 353 7910 009 | | SHIM (1-3/4" x 6-3/4" x .063" [44 x 171 x 1.600 mm]) | A.R. |
| | 353 7910 010 | | SHIM (1-3/4" x 6-3/4" x .100" [44 x 171 x 2.540 mm]) | A.R. |
| 71 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 16 |
| 72 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 16 |
| 73 | 353 7910 014 | | PAD, WEAR (Mid boom front) (1-3/4 x 7" [44 x 171 mm]) | 4 |
| 74 | 353 7910 008 | | SHIM (1-3/4" x 6-3/4" x .040" [44 x 171 x 1.016 mm]) | A.R. |
| | 353 7910 009 | | SHIM (1-3/4" x 6-3/4" x .063" [44 x 171 x 1.600 mm]) | A.R. |
| | 353 7910 010 | | SHIM (1-3/4" x 6-3/4" x .100" [44 x 171 x 2.540 mm]) | A.R. |
| 75 | 07-114600 | | CAP SCREW, FLAT HEAD (3/8"-16 x 1-1/4", Grade 5) | 8 |
| 76 | 353 7910 016 | | SHEAVE, RETRACT ROPE | |
| | | | (8" [203 mm] dia., for 7/16" [11.1 mm] wire rope) | 2 |
| 77 | 353 7910 017 | | BEARING, ROLLER (inner race) | 2 |
| 78 | 353 7910 018 | | SPACER, RETRACT ROPE SHEAVE | 4 |
| 79 | 353 7910 028 | | RETAINER, RETRACT ROPE (Right) | 1 |
| | 353 7910 029 | | RETAINER, RETRACT ROPE (Left) | 1 |
| 80 | 353 7910 026 | | SHAFT, RETRACT ROPE SHEAVE | 2 |
| 81 | 353 7910 027 | | END, ROD (3/8" dia. shaft, 2" long, with 13/32" dia. hole) | 2 |
| 82 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 2 |
| 83 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 2 |
| 84 | 353 7910 025 | | ANCHOR, EXTEND/ RETRACT CABLE | 1 |
| 85 | 353 7910 030 | | BOSS, EXTEND CABLE ANCHOR | 1 |
| 86 | 07-114900 | | CAP SCREW, FLAT HEAD (3/8"-16 x 1", Grade 5) | 2 |
| 87 | 353 7910 031 | | BOSS, RETURN CABLE ANCHOR | 2 |
| 88 | 353 7910 032 | | ANCHOR, CABLE | 1 |
| 89 | 07-003087 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5) | 6 |
| 90 | 07-061018 | | WASHER, FLAT (1/2", SAE, hardened) | 6 |
| 91 | 353 7910 033 | | GUIDE, RETRACT ROPE | 2 |
| 92 | 07-003026 | | CAP SCREW, HEX HEAD (5/16"-18 x 1-1/4", Grade 5) | 4 |
| 93 | 07-114800 | | WASHER, FLAT (5/16", hardened) | 8 |
| 94 | 07-050015 | | NUT, LOCK (5/16"-18, Grade 5) | 4 |
| 95 | 353 7910 022 | | WIRE ROPE (4th stage [tip boom] retract) | |
| | | | (3/8" [9.5 mm] x 397-7/16" [10.095 M] long) | 2 |
| 96 | 07-040022 | | NUT, HEX (3/4"-10, Grade 5) | 2 |
| 97 | 07-047022 | | NUT, HEX JAM (3/4"-10, Grade 5) | 2 |
| 98 | 353 7910 034 | | BOSS, RETURN CABLE ANCHOR | 2 |
| 99 | 07-115000 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 8, Nylock) | 8 |
| 100 | 07-061018 | | WASHER, FLAT (1/2", SAE, hardened) | 8 |

TITLE KEEL BOOM ASSEMBLY, MP 110 (PLATE 4 OF 9, OUTER MID BOOM)

PLATE NO. B03.38 | **SIMON AERIALS INC.** REV. 29 NOV., 1995 | PART NO.



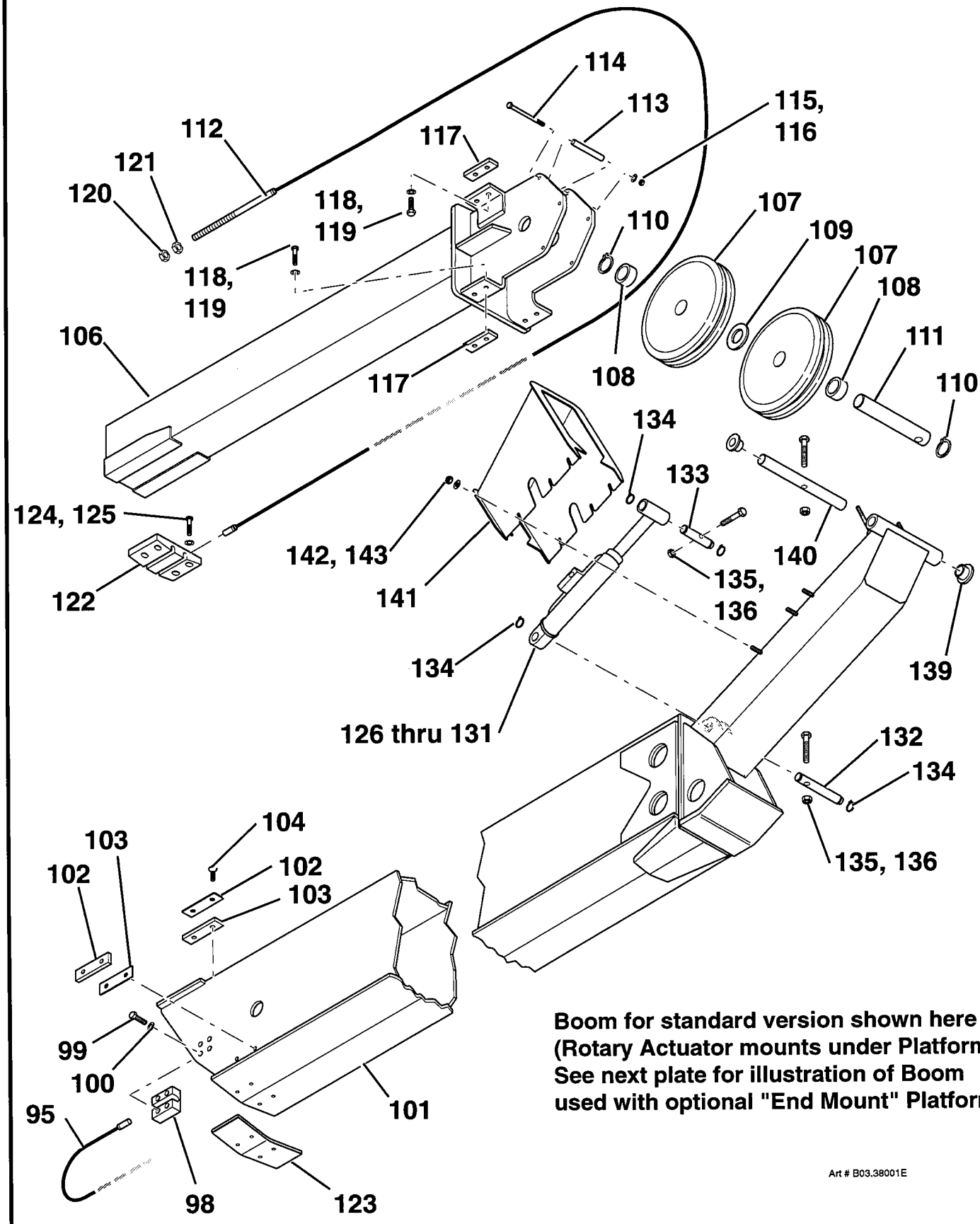

TITLE KEEL BOOM ASSEMBLY, MP 110 (PLATE 4 OF 9, OUTER MID BOOM)

| SIMON AERIALS INC. REV. 29 NOV., 1995 | PART NO. | PLATE NO. B03.38 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 101 | | | TIP BOOM WELDMENT | 1 |
| | 353 7910 003 | | for use with standard Platform (see illustration facing page) | |
| | 234 6990 | | for use with optional "End Mount" Platform (see next page) | |
| 102 | 353 7910 014 | | PAD, WEAR (Tip boom front) (1-3/4 x 7" [44 x 171 mm]) | 4 |
| 103 | 353 7910 008 | | SHIM (1-3/4" x 6-3/4" x .040" [44 x 171 x 1.016 mm]) | A.R. |
| | 353 7910 009 | | SHIM (1-3/4" x 6-3/4" x .063" [44 x 171 x 1.600 mm]) | A.R. |
| | 353 7910 010 | | SHIM (1-3/4" x 6-3/4" x .100" [44 x 171 x 2.540 mm]) | A.R. |
| 104 | 07-114600 | | CAP SCREW, FLAT HEAD (3/8"-16 x 1-1/4", Grade 5) | 8 |
| 105 | 353 7910 052 | | EXTEND TUBE ASSEMBLY | 1 |
| 106 | 353 7910 053 | | TUBE, EXTEND | 1 |
| 107 | 353 7910 054 | | SHEAVE, EXTEND ROPE | 2 |
| 108 | 353 7910 055 | | BEARING, ROLLER (inner race) | 2 |
| 109 | | | WASHER (1-3/8", SAE) | 1 |
| 110 | 353 7910 056 | | RING, RETAINING | 2 |
| 111 | 353 7910 057 | | SHAFT, EXTEND ROPE SHEAVE | 1 |
| 112 | 353 7910 058 | | WIRE ROPE (4th stage [tip boom] extend) | |
| | | | (7/16" [11.1 mm] dia. x 652-9/16" [16.575 M] long) | 2 |
| 113 | 353 7910 059 | | TUBE, SPACER | 3 |
| 114 | 07-003058 | | CAP SCREW, HEX HEAD (3/8"-16 x 4-1/4", Grade 5) | 3 |
| 115 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 3 |
| 116 | 07-062016 | | WASHER, FLAT (3/8") | 3 |
| 117 | 353 7910 060 | | PAD, WEAR | 4 |
| 118 | 07-003022 | | CAP SCREW, HEX HEAD (5/16"-18 x 5/8", Grade 5) | 8 |
| 119 | 07-065015 | | WASHER, HELICAL LOCK (5/16") | 8 |
| 120 | 07-040017 | | NUT, HEX (7/16"-14, Grade 5) | 2 |
| 121 | 07-114400 | | NUT, HEX JAM (7/16"-14) | 2 |
| 122 | 353 7910 035 | | ANCHOR, EXTEND ROPE | 1 |
| 123 | 353 7910 036 | | BAR, BOOM SUPPORT | 1 |
| 124 | 07-115000 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 8, Nylock) | 4 |
| 125 | 07-061018 | | WASHER, FLAT (1/2", SAE, hardened) | 4 |

| | | | |
|---|---|---|---|
| TITLE | KEEL BOOM ASSEMBLY, MP 110 (PLATE 5 OF 9, TIP BOOM) | | |
| PLATE NO. B03.38 | **SIMON AERIALS INC.** | REV. 29 NOV., 1995 | PART NO. |




**Boom for standard version shown here (Rotary Actuator mounts under Platform). See next plate for illustration of Boom used with optional "End Mount" Platform.**

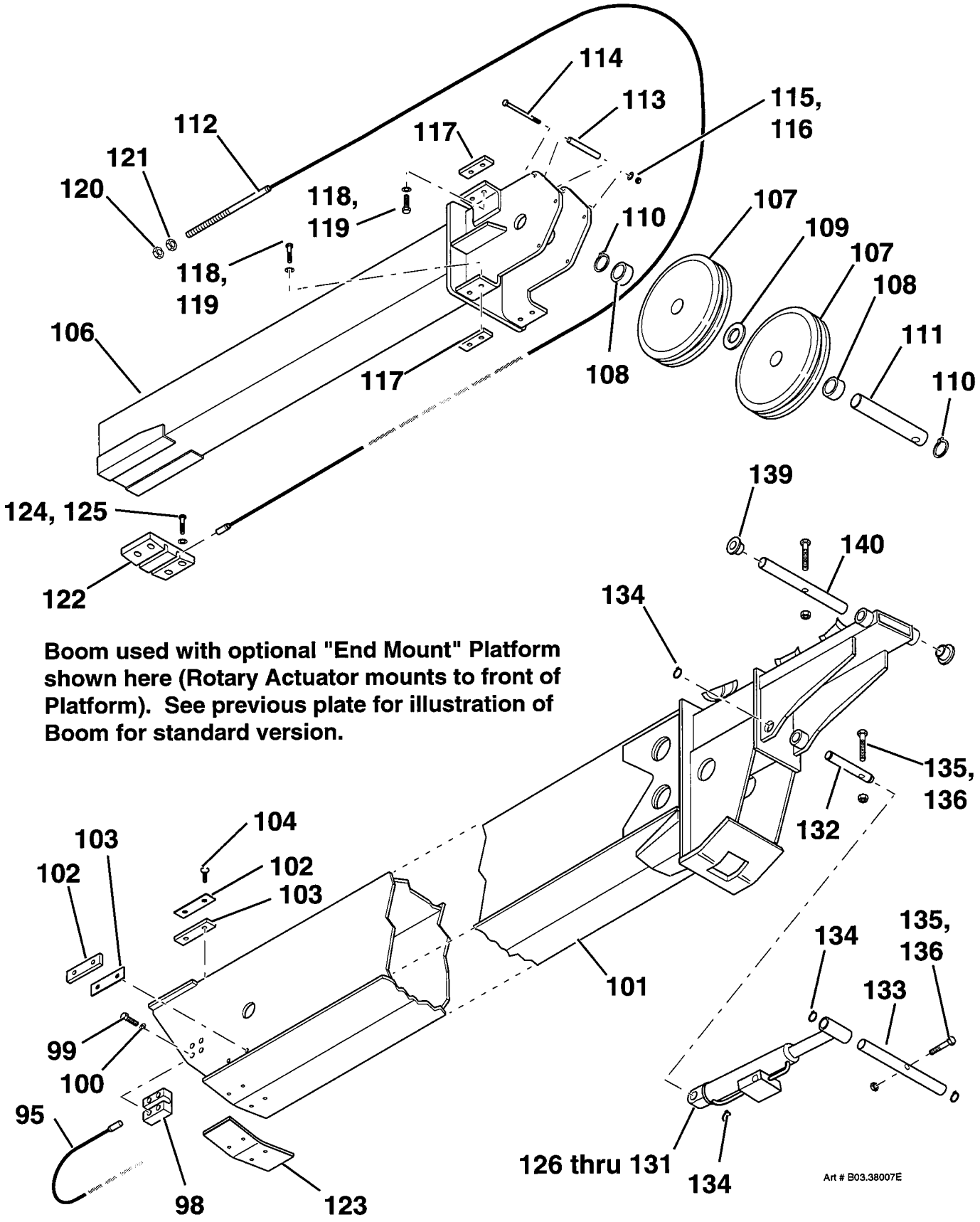
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|---|---|---|---|
| TITLE | KEEL BOOM ASSEMBLY, MP 110 (PLATE 5 OF 9, TIP BOOM) | | |
| **SIMON AERIALS INC.** | REV. 29 NOV., 1995 | PART NO. | PLATE NO. B03.38 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 126 | | | CYLINDER ASSEMBLY, SLAVE LEVEL | 1 |
| | 352 9740 | | used with standard Platform (see illustration previous page) | |
| | 04-039000 | | for use with optional "End Mount" Platform (facing page) | |
| 127 | See plate . . | D20. - - | CYLINDER, SLAVE LEVEL | 1 |
| 128 | 01-227200 | | VALVE, COUNTERBALANCE (stamped "CB-CB-LHN" and set at 3,000 PSI [207 Bar] [211 Kg/ cm2]) | 2 |
| 129 | 06-044400 | | 90° ELBOW, STRAIGHT THREAD (4-6 C50X-S) | 2 |
| 130 | 08-051300 | | FITTING, GREASE (1/8" NPT, 90°) | 1 |
| 131 | 08-050500 | | FITTING, GREASE (1/8" NPT, 45°) | 1 |
| 132 | 206 8884 | | PIN, SLAVE LEVEL CYLINDER (Base end) (1-1/4" x 4-7/8") | 1 |
| 133 | | | PIN, SLAVE LEVEL CYLINDER (Rod end) | 1 |
| | 206 8879 | | used with standard Platform (1-1/4" x 7-3/8") | |
| | 232 2070 | | used with optional "End Mount" Platform (1-1/4" x 10-1/16") | |
| 134 | 08-040700 | | RING, RETAINING (1-1/4") | 4 |
| 135 | 07-003093 | | CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5) | 2 |
| 136 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 2 |
| 137 | 06-036300 | | RUN TEE, BULKHEAD (4 WJJTX-S) | 2 |
| 138 | 06-051300 | | 90° ELBOW, SWIVEL NUT (4 C6X-S) | 1 |
| 139 | 08-002200 | | BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" flange) | 2 |
| 140 | | | PIN, PLATFORM PIVOT | 1 |
| | 205 7046 | | used with standard Platform (1-1/4" x 15-5/16") | |
| | 232 2070 | | used with optional "End Mount" Platform (1-1/4" x 10-1/16") | |
| 141 | 233 2030 | | SHROUD, SLAVE LEVEL CYLINDER (for standard Platform) | 1 |
| 142 | 07-050016 | | NUT, STOP (3/8"-16) | 6 |
| 143 | 07-062016 | | WASHER, FLAT (3/8") | 6 |

| | | | |
|---|---|---|---|
| TITLE | KEEL BOOM ASSEMBLY, MP 110 (PLATE 6 OF 9, TIP BOOM) | | |
| PLATE NO. B03.38 | **SIMON AERIALS INC.** | REV. 29 NOV., 1995 | PART NO. |



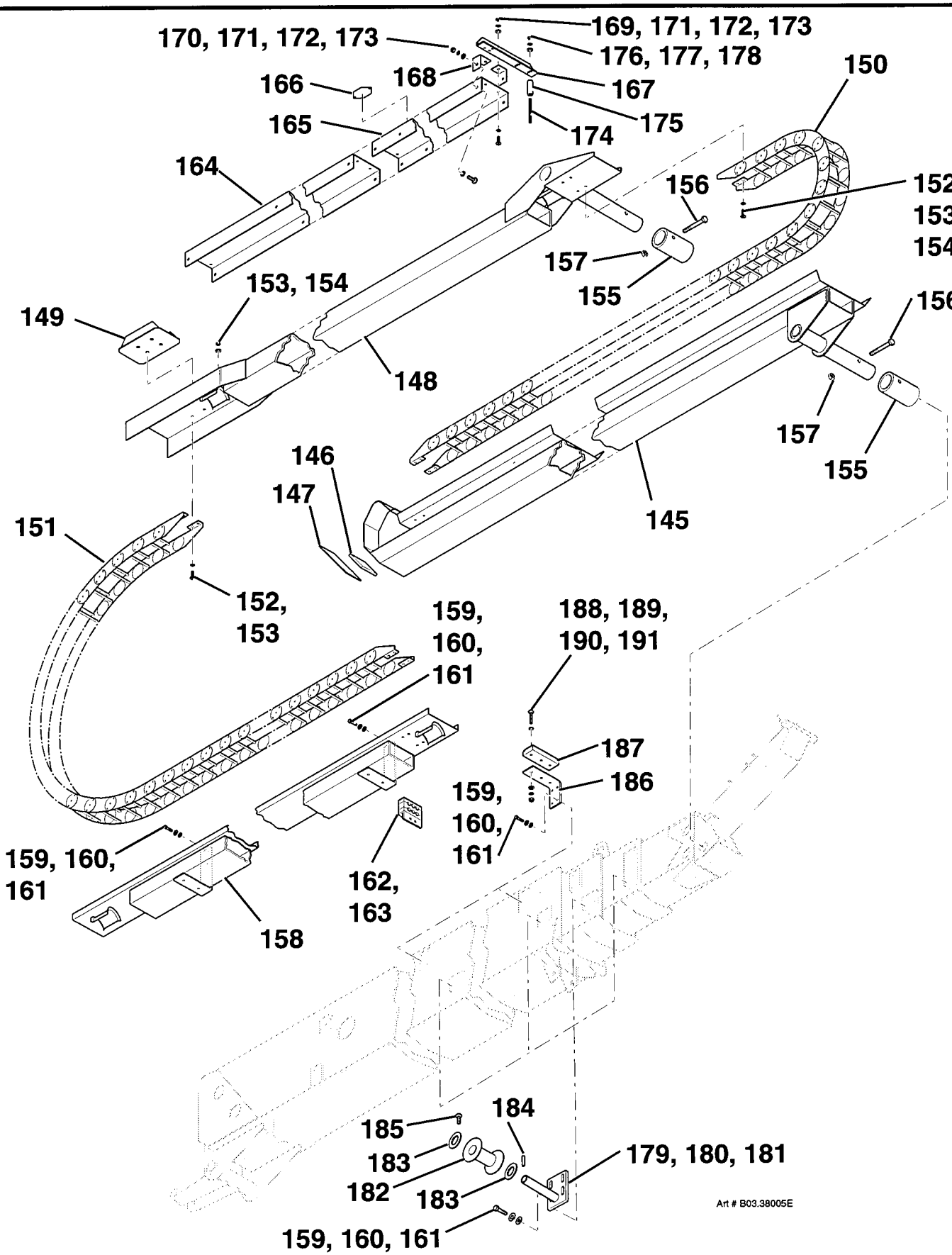

| TITLE | KEEL BOOM ASSEMBLY, MP 110 (PLATE 6 OF 9, TIP BOOM) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 29 NOV., 1995 | PART NO. | PLATE NO. B03.38 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 144 | 233 1220 | | HOSE CARRIER ASSEMBLY (Catrac) | 1 |
| 145 | 233 0440 | | ANCHOR, MOVING (outer) | 1 |
| 146 | 353 7910 037 | | PAD, RAMP WEAR | 1 |
| 147 | 353 7910 038 | | EXTENSION, RAMP | 1 |
| 148 | | | ANCHOR, MOVING (inner) | 1 |
| | 233 0570 | | for use with standard Platform | |
| | 234 7050 | | for use with optional "End Mount" Platform | |
| 149 | 233 1030 | | GUIDE, MOVING ANCHOR | 1 |
| 150 | See plate . . | F03. - - | CARRIER, HOSE (Hose track) (Outer) | 1 |
| 151 | See plate . . | F03. - - | CARRIER, HOSE (Hose track) (Inner) | 1 |
| 152 | 07-017046 | | CAP SCREW, BUTTON HEAD (3/8"-16 x 1-1/4", Grade 5) | 16 |
| 153 | 07-062016 | | WASHER, FLAT (3/8") | 32 |
| 154 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 16 |
| 155 | 353 7910 049 | | TUBE, MOVING ANCHOR RETAINER | 2 |
| 156 | 07-003097 | | CAP SCREW, HEX HEAD (1/2"-13 x 4", Grade 5) | 2 |
| 157 | 07-050018 | | NUT, LOCK (1/2"-13, Grade 5) | 2 |
| 158 | 233 0350 | | TRAY, HOSE CARRIER (lower) | 1 |
| 159 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | A.R. |
| 160 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | A.R. |
| 161 | 07-114300 | | WASHER, FLAT (3/8", hardened) | A.R. |
| 162 | 353 7910 039 | | BLOCK, STRAIN RELIEF | 12 |
| 163 | 353 7910 040 | | BAR, STRAIN RELIEF MOUNTING | 6 |
| 164 | 353 7910 041 | | COVER, HOSE CARRIER (segments furthest from platform) | 2 |
| 165 | 353 7910 042 | | COVER, HOSE CARRIER (segment closest to platform) | 1 |
| 166 | 353 7910 043 | | COVER, LIFT LUG CUTOUT | 1 |
| 167 | 233 1020 | | ANGLE, HOSE CARRIER COVER MOUNTING | 4 |
| 168 | 353 7910 044 | | ANGLE, HOSE CARRIER COVER SUPPORT | 8 |
| 169 | 07-017046 | | CAP SCREW, BUTTON HEAD (3/8"-16 x 1-1/4", Grade 5) | 8 |
| 170 | 07-017045 | | CAP SCREW, BUTTON HEAD (3/8"-16 x 1", Grade 5) | 8 |
| 171 | 07-114300 | | WASHER, FLAT (3/8", hardened) | 16 |
| 172 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 16 |
| 173 | 07-040016 | | NUT, HEX (3/8"-16, Grade 5) | 16 |
| 174 | 353 7910 047 | | STUD, THREADED (1/2"-13 x 4-1/4") | 8 |
| 175 | 233 1010 | | SPACER, HOSE CARRIER MOUNTING ANGLE | 8 |
| 176 | 07-062018 | | WASHER, FLAT (1/2") | 8 |
| 177 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 8 |
| 178 | 07-040018 | | NUT, HEX (1/2"-13, Grade 5) | 8 |

TITLE KEEL BOOM ASSEMBLY, MP 110 (PLATE 7 OF 9, HOSE CARRIER)

PLATE NO. B03.38 | **SIMON AERIALS INC.** REV. 29 NOV., 1995 | PART NO.




| TITLE | KEEL BOOM ASSEMBLY, MP 110 (PLATE 7 OF 9, HOSE CARRIER) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 29 NOV., 1995 | PART NO. | PLATE NO. B03.38 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 179 | 233 0510 | | BRACKET, HOSE CARRIER ROLLER (on base boom) | 2 |
| 180 | 233 0530 | | BRACKET, HOSE CARRIER ROLLER (on inner mid boom) | 1 |
| 181 | 233 0550 | | BRACKET, HOSE CARRIER ROLLER (on outer mid boom) | 1 |
| 182 | 353 7910 045 | | ROLLER, HOSE CARRIER | 4 |
| 183 | 353 7910 020 | | BUSHING (1-1/4" I.D., 1-7/8" O.D., #18 Ga.) | A.R. |
| 184 | 353 7910 050 | | PIN, SPIROL (1/4" x 2-1/4") | 4 |
| 185 | 353 7910 051 | | PIN, CLIP | 4 |
| 186 | 233 0500 | | BRACKET, HOSE CARRIER WEAR PAD MOUNTING | 4 |
| 187 | 353 7910 046 | | PAD, WEAR (Hose Carrier) | 2 |
| 188 | 07-114600 | | MACHINE SCREW, FLAT SOCKET HEAD (3/8"-16 x 1-3/4") | 6 |
| 189 | 07-114300 | | WASHER, FLAT (3/8", hardened) | 16 |
| 190 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 16 |
| 191 | 07-040016 | | NUT, HEX (3/8"-16, Grade 5) | 16 |
| 192 | 03-085700 | | CABLE, ELECTRICAL (SJO, 4 conductor, #16 AWG) (Bulk item, 75 Ft [22.9 M] required here) | A.R. |
| | 03-085900 | | CABLE, ELECTRICAL (SJO, 3 conductor, #12 AWG) [Bulk item, order as needed] | A.R. |
| | 03-488800 | | CABLE, ELECTRICAL (Type F 569, 19 conductor, #16 AWG) [Bulk item, order as needed] | A.R. |
| 193 | | | HOSE, BOOM (**Note:** Part number shown is for **hose only**, pre-cut to 140 Ft [42.7 M]. Must be trimmed to proper length after routing through boom hose track and carrier tubes, and prior to installation of correct **end fittings** as indicated on charts on opposite page): | |
| | | | for "**Electro-Proportional**" units: | |
| | 05-085200 | | #4 hose (see chart on opposite page for correct fittings) | 4 |
| | | | for "**Hydraport**" units: | |
| | 05-085200 | | #4 hose (see chart on opposite page for correct fittings) | 2 |
| | 05-102300 | | #8 hose (see chart on opposite page for correct fittings) | 2 |
| | | | for **all** units: | |
| | 351 8510 | | HOSE ASSEMBLY (w/ fittings) (114" [2.90 M] long) | 2 |
| | 351 4310 | | HOSE ASSEMBLY (w/ fittings) (126" [3.20 M] long) | 1 |
| | 351 4320 | | HOSE ASSEMBLY (w/ fittings) (131" [3.33 M] long) | 1 |
| 194 | 10-113200 | | PROTECTOR, HOSE (Neoprene, 6" x 9" x 1/8") | A.R. |
| 195 | 03-064700 | | TIE, CABLE [14.5" (368 mm) long] | A.R. |
| 196 | 232 5480 | | COVER, HOSE | 1 |
| 197 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 4 |
| 198 | 07-062014 | | WASHER, FLAT (1/4") | 4 |

TITLE KEEL BOOM ASSEMBLY, MP 110 (PLATE 8 OF 9, HOSE CARRIER)

PLATE NO. B03.38 | **SIMON AERIALS INC.** REV. 29 NOV., 1995 | PART NO.

193 HOSE, BOOM, for "**Electro-Proportional**" units:

05-085200 #4 hose, pre-cut to 140 Ft [42.7 M] length (4)

| For hoses marked: | Ferrule (for each end): | Fitting: | |
|---|---|---|---|
| | | Lower end: | Upper end: |
| B and C | 06-213100 (4M3 KPC-S) | 06-144500 (4-6 FJX-S) | 06-144300 (4-4 FJX-S) |
| P and R | 06-213100 (4M3 KPC-S) | 06-144500 (4-6 FJX-S) | 06-144500 (4-6 FJX-S) |

HOSE, BOOM, for "**Hydraport**" units:

05-085200 #4 hose, pre-cut to 140 Ft [42.7 M] length (2)

| For hoses marked: | Ferrule (for each end): | Fitting: | |
|---|---|---|---|
| | | Lower end: | Upper end: |
| B and C | 06-213100 (4M3 KPC-S) | 06-144500 (4-6 FJX-S) | 06-144300 (4-4 FJX-S) |

05-102300 #8 hose, pre-cut to 140 Ft [42.7 M] length (2)

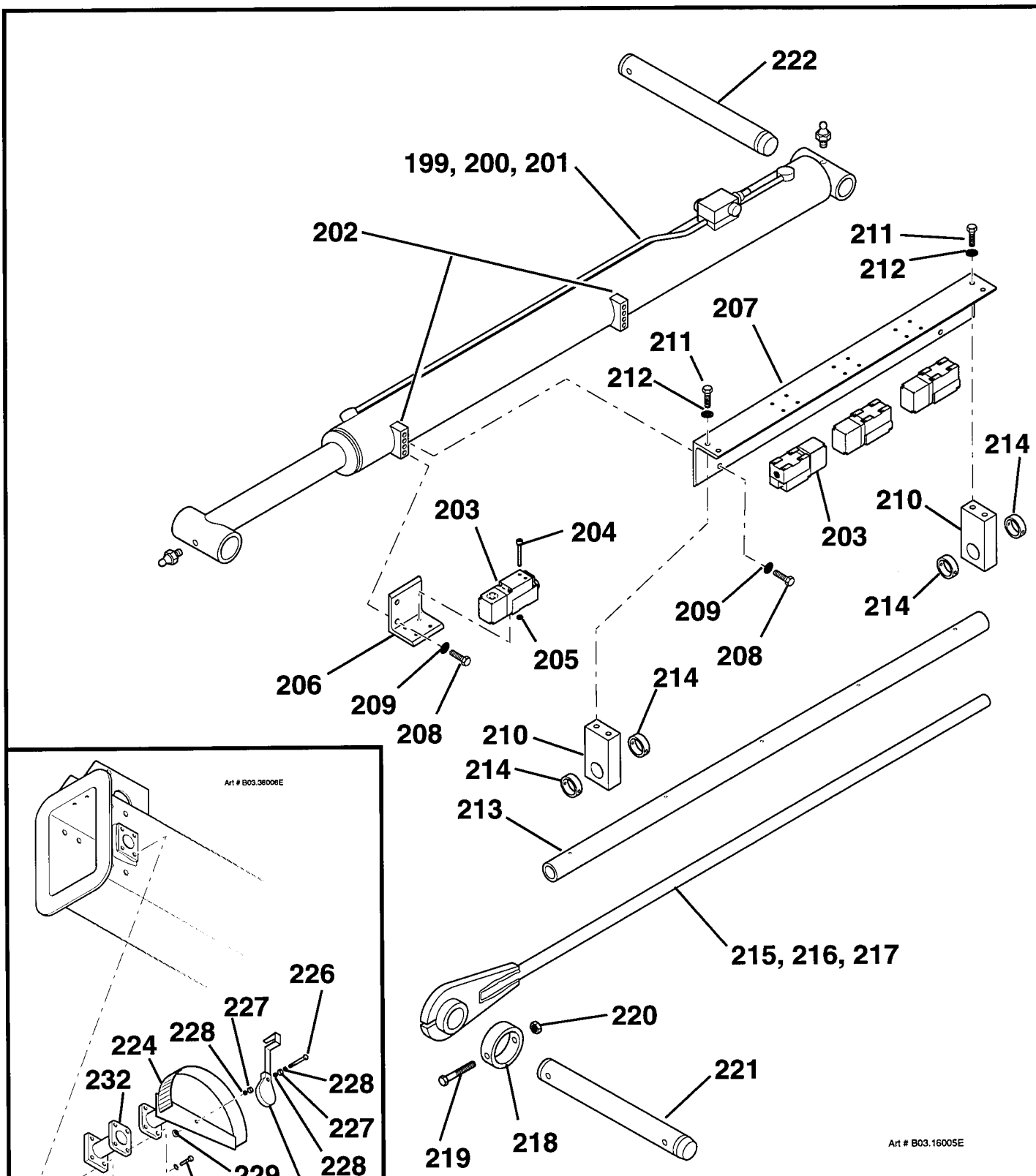
| For hoses marked: | Ferrule (for each end): | Fitting: | |
|---|---|---|---|
| | | Lower end: | Upper end: |
| A and D | 06-213200 (6PC1F-M2-S) | 06-144900 (6-6 FJX-S) | 06-144900 (6-6 FJX-S) |

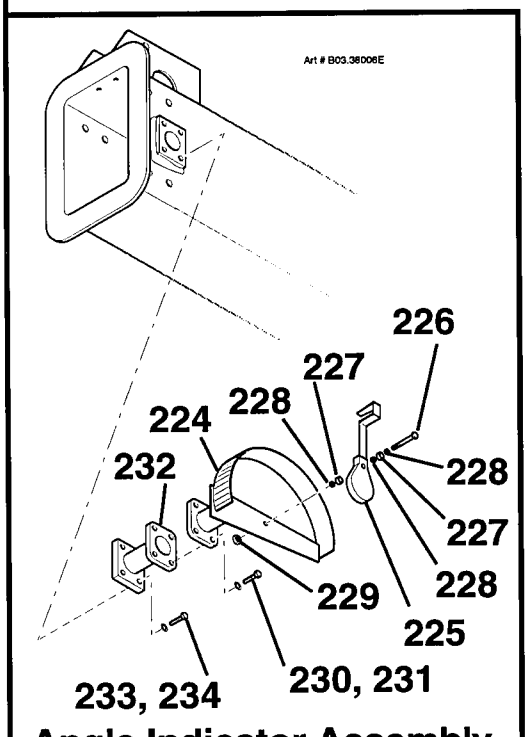
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 199 | 214 4320 | | CYLINDER ASSEMBLY, BOOM LIFT (MP 110) | 1 |
| 200 | | | CYLINDER, BOOM LIFT (Modified) | 1 |
| 201 | See Index . . | D09. - - | CYLINDER ASSEMBLY, BOOM LIFT | 1 |
| 202 | 214 4160 | | PLATE, BOOM ANGLE SENSOR SUPPORT | 2 |
| 203 | 03-417200 | | SWITCH, PROXIMITY | 4 |
| 204 | 07-008356 | | CAP SCREW, SOCKET HEAD (#10-24 x 1-3/4", Grade 8) | 8 |
| 205 | 07-050011 | | NUT, LOCK (#10-24, Grade 2) | 8 |
| 206 | 219 7370 | | ANGLE BRACKET, SWITCH SUPPORT | 1 |
| 207 | 214 4170 | | ANGLE BRACKET, SWITCH AND TUBE SUPPORT | 1 |
| 208 | 07-003085 | | CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5) | 6 |
| 209 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 210 | 214 4180 | | BRACKET, BOOM ANGLE SENSOR | 2 |
| 211 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 4 |
| 212 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 4 |
| 213 | 214 4150 | | TUBE, BOOM ANGLE SENSOR | 1 |
| 214 | 08-066200 | | COLLAR, SET SCREW (1-3/8" I.D.) | 4 |
| 215 | 232 4130 | | ROD, TARGET (Boom angle sensor) | 1 |
| 216 | 08-050000 | | FITTING, GREASE (1/8", straight) | 2 |
| 217 | 08-066300 | | CAP, GREASE FITTING (White plastic) | 2 |
| 218 | 210 0130 | | RETAINER, TARGET ROD (2-1/2" dia.) | 1 |
| 219 | 07-003098 | | CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 5) | 1 |
| 220 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 1 |
| 221 | 214 4200 | | PIN, LIFT CYLINDER (2-1/2" x 18-1/16") (Rod end) | 1 |
| 222 | 209 1619 | | PIN, LIFT CYLINDER (2-1/2" x 24-3/16") (Base end) | 1 |
| 223 | 353 1860 | | ANGLE INDICATOR ASSEMBLY | 1 |
| 224 | 216 3340 | | INDICATOR, ANGLE (Painted) | 1 |
| 225 | 207 3367 | | POINTER, ANGLE INDICATOR | 1 |
| 226 | 07-003053 | | CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5) | 1 |
| 227 | 08-058600 | | BEARING, BALL | 2 |
| 228 | 230 6400 | | TUBE, SPACER | 3 |
| 229 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 1 |
| 230 | 07-003086 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5) | 4 |
| 231 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 232 | 233 2520 | | BRACKET, ANGLE INDICATOR MOUNTING | 1 |
| 233 | | | CAP SCREW, HEX HEAD (3/8"-16) | 4 |
| 234 | | | WASHER, HELICAL LOCK (3/8") | 4 |

TITLE KEEL BOOM ASSEMBLY, MP 110 (PLATE 9 OF 9, ANGLE SENSOR)

PLATE NO. B03.38 | **SIMON AERIALS INC.** REV. 29 NOV., 1995 | PART NO.



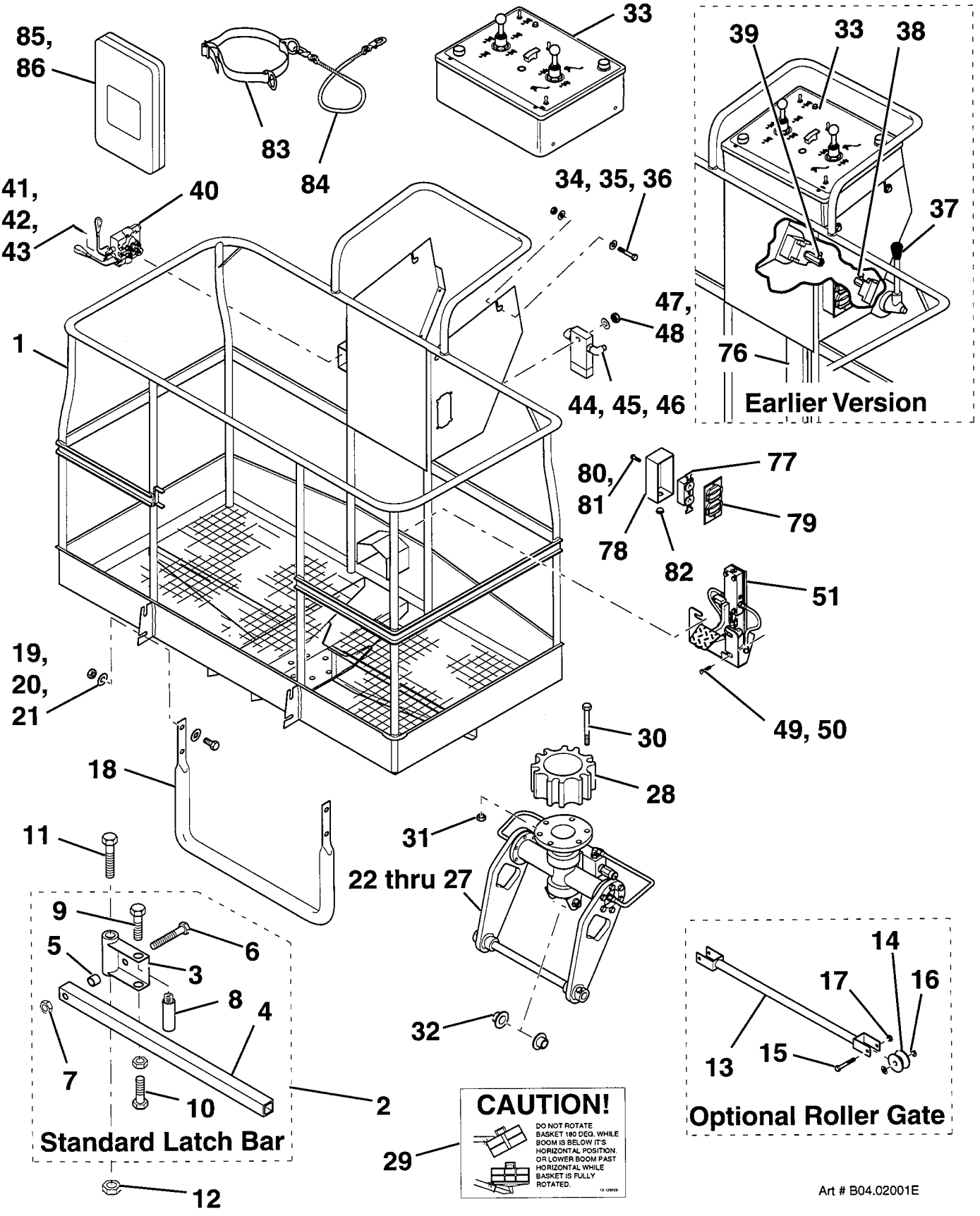

Angle Indicator Assembly

| | | | |
|---|---|---|---|
| TITLE | KEEL BOOM ASSEMBLY, MP 110 (PLATE 9 OF 9, ANGLE SENSOR) | | |
| **SIMON AERIALS INC.** | REV. 29 NOV., 1995 | PART NO. | PLATE NO. B03.38 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | PLATFORM WELDMENT | |
| | | | (Standard type, with Rotary Actuator mounted **under** floor) | 1 |
| | | | For **Hydraport** controls (with 2 "Joystick" controls): | |
| | | | **Earlier** style, with Platform Rotate valve on left, and Platform Level valve on right side of console: | |
| | | | **First** type, **with** separate hose channel under console: | |
| | 205 6409 | | **MP** Series (36" x 72" [.91 M x 1.83 M]) | |
| | 205 6399 | | **MPN** Series (36" x 60" [.91 M x 1.52 M]) | |
| | | | **Second** type, **without** separate hose channel: | |
| | 211 7580 | | **MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**) | |
| | 211 7640 | | **MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**) | |
| | 211 7520 | | **MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**) | |
| | | | **Later** style, with Platform Rotate and Level valves both in box on outside of left side of console: | |
| | 230 5280 | | **MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**) | |
| | 230 5310 | | **MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**) | |
| | 230 5250 | | **MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**) | |
| 2 | 351 4160 | | BAR ASSEMBLY, LATCH (standard "Lift and Swing" style) | 1 |
| 3 | 204 1724 | | PIVOT, DOOR | 1 |
| 4 | 207 6577 | | BAR, LATCH | 1 |
| 5 | 204 1649 | | SPACER, LATCH BAR PIVOT | 1 |
| 6 | 07-003047 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5) | 1 |
| 7 | 07-050016 | | NUT, HEX LOCK (3/8"-16, Grade 5) | 1 |
| 8 | 08-010100 | | SPRING AND TUBE ASSEMBLY | 1 |
| 9 | 210 8380 | | SPACER | 1 |
| 10 | 07-003043 | | CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5) | 1 |
| 11 | 07-003096 | | CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5) | 1 |
| 12 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 1 |
| 13 | 219 8520 | | BAR, GATE (optional pull up "Roller Gate" style) | 1 |
| 14 | 219 8510 | | ROLLER, PULL UP GATE | 2 |
| 15 | 07-003053 | | CAP SCREW, HEX HD (3/8"-16 x 3", Grade 5) | 2 |
| 16 | 07-062016 | | WASHER, FLAT (7/16") | 4 |
| 17 | 07-050016 | | NUT, HEX LOCK (3/8"-16, Grade 5) | 2 |
| 18 | | | STEP, PLATFORM | 1 |
| | 214 6800 | | Standard version (17-1/2" [.44 M] high) | |
| | 219 8710 | | Optional longer step (21-1/2" [.55 M] high) | |
| 19 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 4 |
| 20 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 4 |
| 21 | 07-062016 | | WASHER, FLAT (7/16") | 8 |

| | | | |
|---|---|---|---|
| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 4) | | |
| PLATE NO. B04.02 | **SIMON AERIALS INC.** | REV. 07 DEC., 1994 | PART NO. |



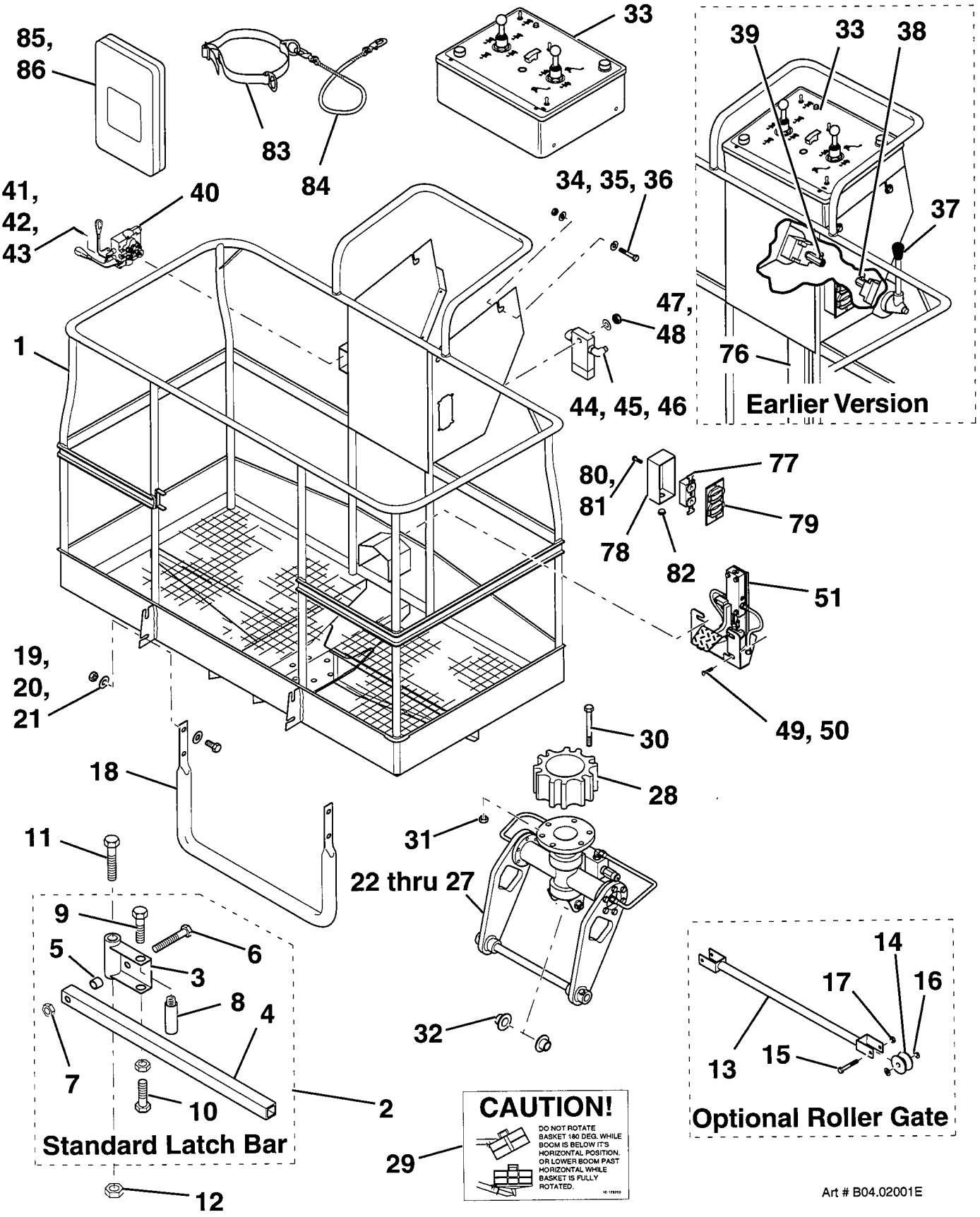

| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 4) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 07 DEC., 1994 | PART NO. | PLATE NO. B04.02 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 22 | See Index . . | D24. - - | ACTUATOR, ROTARY (Helical type, 180°) (includes pins) | 1 |
| 23 | | | PIN, PLATFORM PIVOT (1-1/4" x 20") | 1 |
| | 210 2940 | | except Canada (Standard type, included with actuator) | 1 |
| | 219 4480 | | CSA standards (Specify if this type is needed) | 1 |
| 24 | | | PIN, SLAVE CYLINDER (1-1/4" x 7-3/8") (Rod end) | |
| | 206 8879 | | except Canada (Standard type, included with actuator) | 1 |
| | Call Simon | | CSA standards (Specify if this type is needed) | 1 |
| 25 | 01-001900 | | VALVE, DOUBLE LOCK | |
| | | | (Earlier versions. No cartridges protrude from block.) | 1 |
| 26 | 01-202000 | | MANIFOLD, RELIEF/ CHECK VALVE | |
| | | | (Later versions. Two cartridges protrude from block.) | 1 |
| 27 | 08-040700 | | RING, RETAINING (1-1/4") | 4 |
| 28 | | | SPACER, ROTARY ACTUATOR (for use with 96" platform) | 1 |
| | 233 5380 | | Model MP 40 (4" [102 mm] thick) | |
| | 233 5510 | | except Model MP40 (6" [152 mm] thick) | |
| 29 | 10-129200 | | DECAL, "CAUTION, DO NOT ROTATE . . ." (found on some earlier versions having 96" platform, but no spacer) | 1 |
| 30 | | | CAP SCREW, HEX HEAD (1/2"-13, Grade 8) | 6 |
| | 07-004089 | | 2" long, for all except with 96" platform | |
| | 07-004100 | | 6" long, for **Model MP 40** with 96" platform | |
| | 07-113400 | | 8", long, for models with 96" platform **except MP 40** | |
| 31 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 6 |
| 32 | 08-002200 | | BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" O.D. flange, 1-1/2" long) (later versions) | 2 |
| | 08-002500 | | BEARING, SLEEVE (1-1/4" I.D., 1-5/8" O.D., 1" long) (earlier versions) | 2 |
| 33 | See Index . . | C08. - - | PLATFORM CONTROL CONSOLE ASSEMBLY | 1 |
| 34 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 4 |
| 35 | 07-062016 | | WASHER, FLAT (3/8") | 8 |
| 36 | 07-050016 | | NUT, HEX LOCK (3/8"-16, Grade 5) | 4 |
| 37 | See Plate . . | D14. - - | VALVE, 4-WAY MANUAL (Platform level or rotate) (Earlier versions) | 2 |
| 38 | 01-020800 | | VALVE, CHECK | 1 |
| 39 | 01-000500 | | VALVE, NEEDLE | 1 |
| 40 | See Plate . . | D14. - - | VALVE, PLATFORM LEVEL AND ROTATE (Later versions) | 1 |
| 41 | 07-003009 | | CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5) | 2 |
| 42 | 07-060014 | | WASHER, FLAT (1/4", SAE) | 2 |
| 43 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 2 |

**TITLE** PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 4)

| PLATE NO. | | PART NO. |
|---|---|---|
| B04.02 | **SIMON AERIALS INC.** REV. 07 DEC., 1994 | |



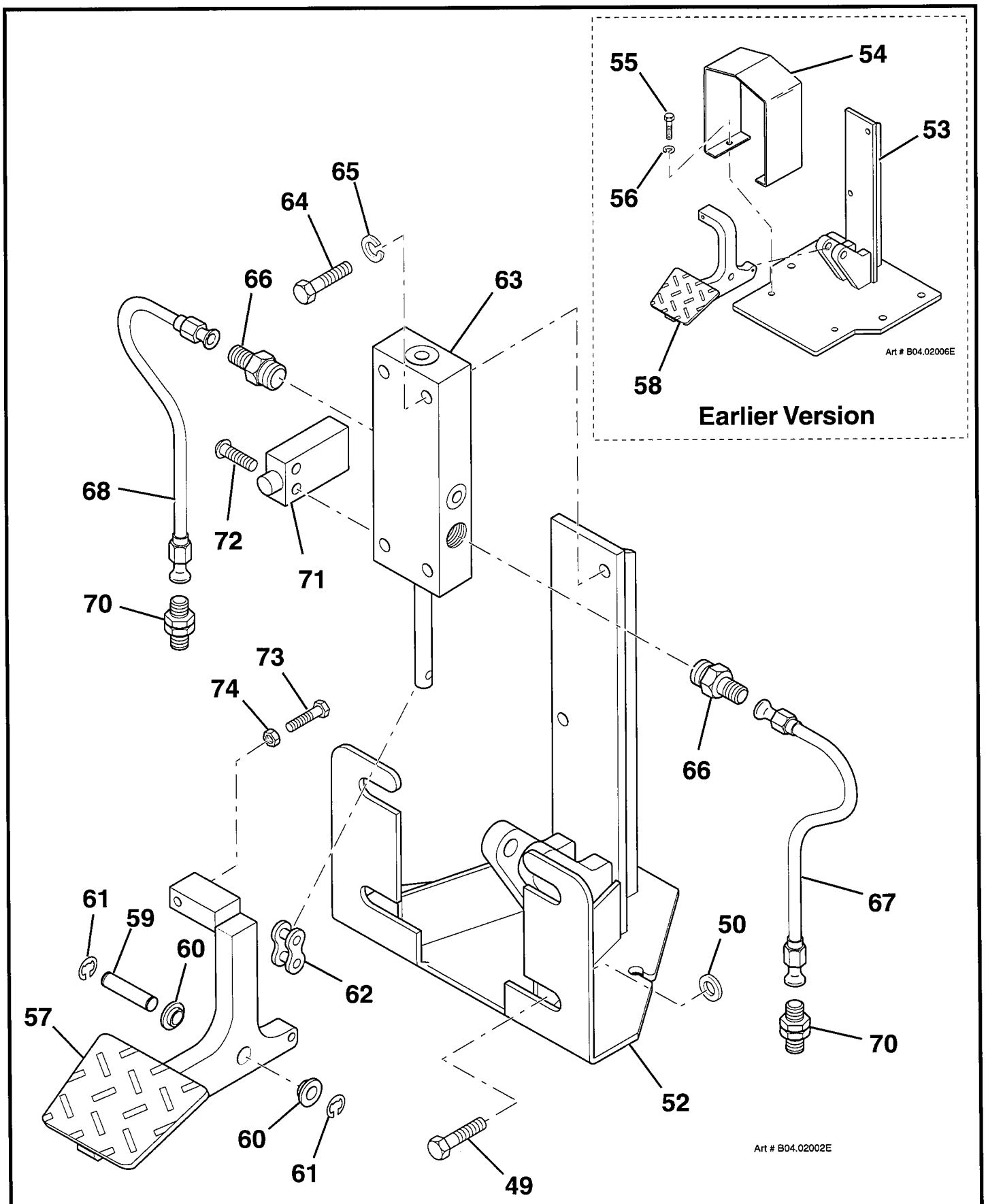

| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 4) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 07 DEC., 1994 | PART NO. | PLATE NO. B04.02 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 44 | 01-001900 | | VALVE, CHECK (Pilot operated) | 1 |
| 45 | 06-039500 | | ADAPTER, "O"-RING TO 37° (4-6 F50X-S) | 2 |
| 46 | 06-044400 | | 90° ELBOW, STRAIGHT THREAD (4-6 C50X-S) | 2 |
| 47 | 07-040015 | | NUT, HEX (5/16"-18, Grade 5) | 2 |
| 48 | 07-062015 | | WASHER, FLAT (5/16") | 2 |
| 49 | 07-003042 | | CAP SCREW, HEX HEAD (3/8"-16 x 5/8", Grade 5) | 4 |
| 50 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 4 |
| 51 | | | FOOT VALVE ASSEMBLY, HYDRAPORT | 1 |
| | 350 0862 | | **Earlier** version(Toe guard bolts to base) | |
| | 352 3620 | | **Later** version(Toe guard is part of the platform weldment) | |
| 52 | 205 6920 | | BRACKET, FOOT PEDAL (for later versions) | 1 |
| 53 | 203 3969 | | BASE, FOOT PEDAL (for earlier versions) | 1 |
| 54 | 203 3914 | | GUARD, TOE (for earlier versions) | 1 |
| 55 | 07-003042 | | CAP SCREW, HEX HEAD (3/8"-16 x 5/8", Grade 5) | 2 |
| 56 | 07-065015 | | WASHER, HELICAL LOCK (3/8") | 2 |
| 57 | 200 5146 | | PEDAL, FOOT (Welded block on lever for limit switch actuator screw attachment.) | 1 |
| 58 | 203 3950 | | PEDAL, FOOT (Lever is bent for switch actuator. For some earlier versions.) | 1 |
| 59 | 203 3893 | | PIN (3/8" dia. x 2-1/16" long) | 1 |
| 60 | 08-010500 | | BEARING, FLANGED (3/8" I.D.) (for later versions) | 2 |
| 61 | 08-047000 | | RING, RETAINING | 2 |
| 62 | 08-010200 | | LINK, CHAIN CONNECTING | 1 |
| 63 | See Index . . | D05. - - | VALVE, DESTROKE (HPC Valve) | 1 |
| 64 | 07-003027 | | CAP SCREW, HEX HEAD (5/16"-18 x 1-1/2", Grade 5) | 2 |
| 65 | 07-065015 | | WASHER, HELICAL LOCK (5/16") | 2 |
| 66 | 06-039800 | | ADAPTER, "O"-RING TO 37° (6 F50X-S) | 2 |
| 67 | 350 7812 | | TUBE ASSEMBLY (for later versions) | 1 |
| 68 | 350 7825 | | TUBE ASSEMBLY (for later versions) | 1 |
| 69 | 06-095000 | | PLUG (6 HP50N-S) (for earlier versions) | 1 |
| 70 | 06-032000 | | UNION, BULKHEAD (6 WTX-S) (for later versions) | 2 |
| 71 | 03-026600 | | SWITCH, LIMIT | 1 |
| 72 | | | MACHINE SCREW | 2 |
| | 07-011344 | | PAN HEAD (#8-32 x 3/4") (for earlier versions) | |
| | 07-090100 | | ROUND HEAD (#10-32 x 3/4") (for later versions) | |
| 73 | 07-003006 | | CAP SCREW, HEX HEAD (1/4"-20 x 1-1/4", Grade 5) | 1 |
| 74 | 07-040014 | | NUT, HEX (1/4"-20, Grade 5) | 1 |
| 75 | 07-060014 | | WASHER, FLAT (1/4", SAE) (for later versions) | 4 |

**TITLE** PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 4)

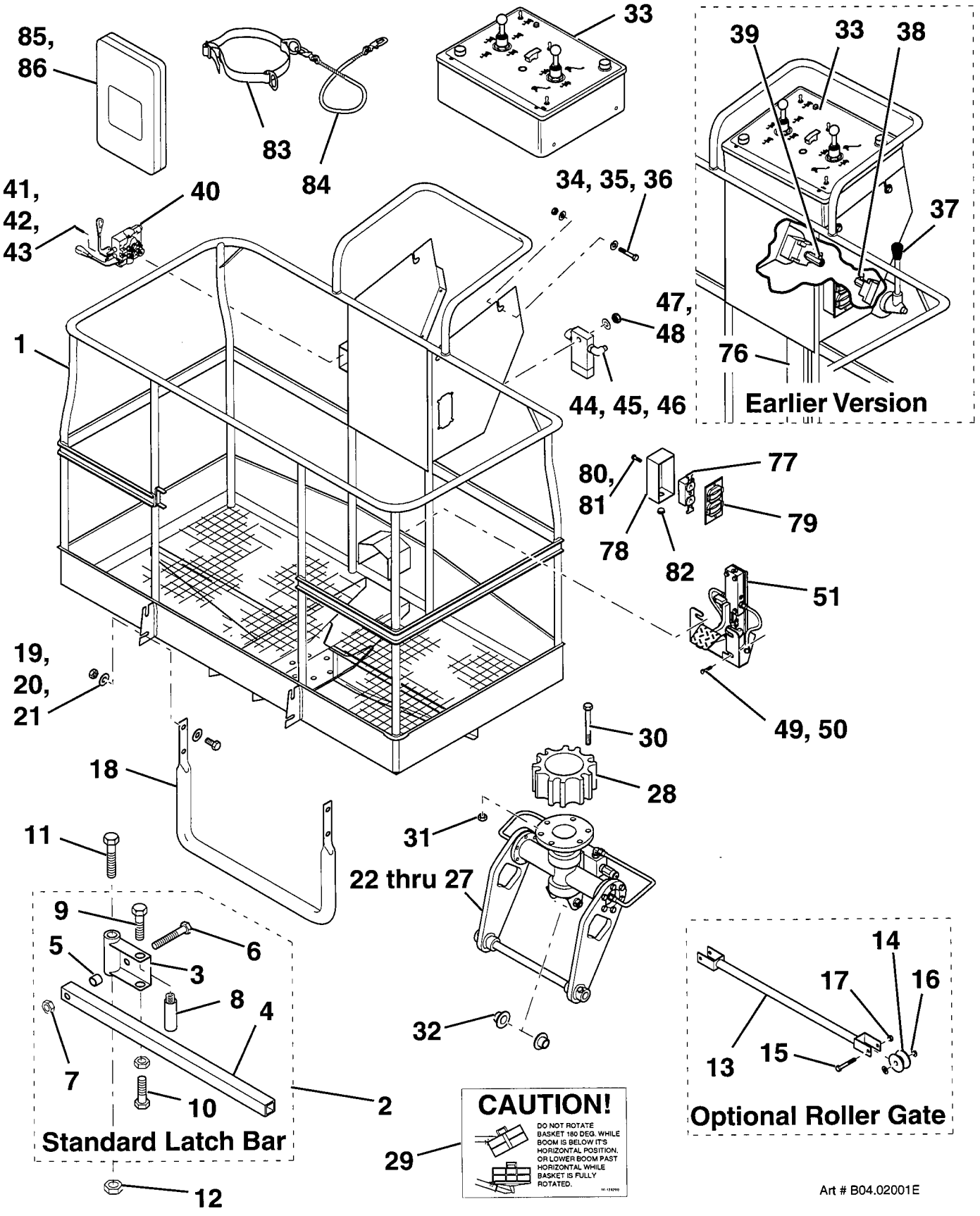
**PLATE NO.** B04.02 | **SIMON AERIALS INC.** REV. 07 DEC., 1994 | **PART NO.**




| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 4) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 07 DEC., 1994 | PART NO. | PLATE NO. B04.02 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 76 | 205 6766 | | TRAY, HOSE (Hose channel) (Separate item, for first type.) | 1 |
| 77 | 03-067000 | | OUTLET, DUPLEX (20 Amp, 110 Volt AC) | 1 |
| 78 | 03-062100 | | BOX, DUPLEX OUTLET (Weatherproof) | 1 |
| 79 | 03-062200 | | COVER, DUPLEX OUTLET (Weatherproof) | 1 |
| 80 | 07-011355 | | MACHINE SCREW, ROUND HEAD (#10-24 x 3/4") | 2 |
| 81 | 07-050011 | | NUT, LOCK (#10-24, Grade 2) | 2 |
| 82 | 03-042000 | | CONNECTOR, CABLE (2 screw, 3/8") | 1 |
| 83 | 10-034000 | | BELT, SAFETY | 1 |
| 84 | 10-033900 | | LANYARD, SAFETY BELT | 1 |
| 85 | 11-085200 | | BOX, TECHNICAL MANUAL STORAGE | 1 |
| 86 | 07-029365 | | SCREW, HEX WASHER HEAD (#12 x 1", Self drilling, with rubber seal) | 2 |
| 87 | 10-042500 | | COVER, CONSOLE CONTROLS (black vinyl) (option) | 1 |
| 88 | 10-163800 | | STUD, BUTTON SNAP (stainless steel) | A.R. |
| 89 | 07-099300 | | RIVET, BLIND (1/8" x 1/8", stainless steel) | A.R. |
| 90 | 353 7380 | | HOSE KIT, PLATFORM | 1 |
| | | | **The following are also found on platform assemblies:** | |
| 91 | 205 4670 | | CLAMP, HOSE (2 hole, #4) | A.R. |
| 92 | 07-062014 | | WASHER, FLAT (1/4") | A.R. |
| 93 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | A.R. |
| 94 | 03-066400 | | TIE, CABLE (20" [508 mm] long) | A.R. |
| 95 | 03-064700 | | TIE, CABLE (14-1/2" [368 mm] long) | A.R. |
| 96 | 03-064000 | | TIE, CABLE (7.4" [188 mm] long) | A.R. |
| 97 | 03-064100 | | MOUNT, CABLE TIE (Adhesive backed) | A.R. |
| 98 | 10-113000 | | PROTECTOR, HOSE (Neoprene, 8" x 12" x 1/8" thick) | A.R. |
| | 10-113200 | | PROTECTOR, HOSE (Neoprene, 6" x 9" x 1/8" thick) | A.R. |

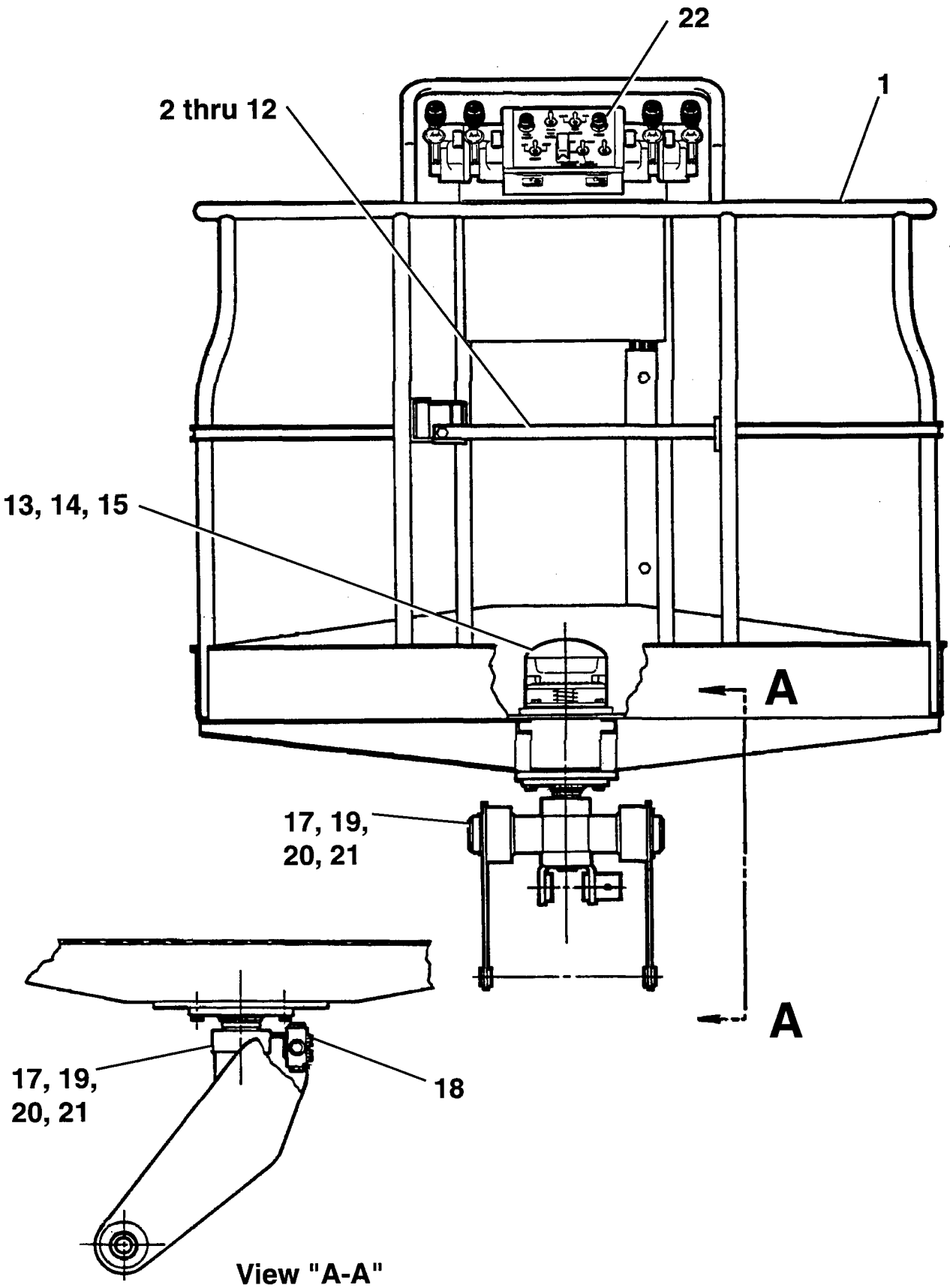



| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 4 OF 4) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 07 DEC., 1994 | PART NO. | PLATE NO. B04.02 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | PLATFORM WELDMENT<br>(Standard type, with Rotary Actuator mounted **under** floor)<br>For **Earliest** style Electro-Proportional controls (with 4 | 1 |
| | | | Control Levers): | |
| | 211 7610 | | **MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**) | |
| | 211 7550 | | **MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**) | |
| 2 | 351 4160 | | BAR ASSEMBLY, LATCH | 1 |
| 3 | 204 1724 | | PIVOT, DOOR | 1 |
| 4 | 207 6577 | | BAR, LATCH | 1 |
| 5 | 204 1649 | | SPACER, LATCH BAR PIVOT | 1 |
| 6 | 07-003047 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5) | 1 |
| 7 | 07-050016 | | NUT, HEX LOCK (3/8"-16, Grade 5) | 1 |
| 8 | 08-010100 | | SPRING AND TUBE ASSEMBLY | 1 |
| 9 | 210 8380 | | SPACER | 1 |
| 10 | 07-003043 | | CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5) | 1 |
| 11 | 07-003096 | | CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5) | 1 |
| 12 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 1 |
| 13 | 03-021300 | | SWITCH ASSEMBLY, FOOT (Single pole) | 1 |
| 14 | 03-021301 | | SWITCH (Single pole, double throw) | 1 |
| 15 | 03-021302 | | COVER, SWITCH (Guard type, with latch) | 1 |
| 16 | 214 6800 | | STEP, PLATFORM (17-1/2" [.44 M] high) (not shown) | 1 |
| 17 | See Index . . | D24. - - | ACTUATOR, ROTARY (Helical type, 180°) | 1 |
| 18 | 01-001900 | | VALVE, DOUBLE LOCK<br>(Earlier versions. No cartridges protrude from block.) | 1 |
| | 01-202000 | | MANIFOLD, RELIEF/ CHECK VALVE<br>(Later versions. Two cartridges protrude from block.) | 1 |
| 19 | 07-004089 | | CAP SCREW, HEX HEAD (1/2"-13 x 2", Grade 8) | 6 |
| 20 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 6 |
| 21 | 08-002500 | | BEARING, SLEEVE (1-1/4" I.D., 1-5/8" O.D., 1" long) | 2 |
| 22 | See Index . . | C08. - - | PLATFORM CONTROL CONSOLE ASSEMBLY | 1 |
| 23 | 10-034000 | | BELT, SAFETY | 1 |
| 24 | 10-033900 | | LANYARD, SAFETY BELT | 1 |

| TITLE | PLATFORM ASSEMBLY, MP SERIES | |
|---|---|---|
| PLATE NO. B04.06 | **SIMON AERIALS INC.** REV. 01 DEC., 1994 | PART NO. |




| TITLE | PLATFORM ASSEMBLY, MP SERIES | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 01 DEC., 1994 | | PART NO. | PLATE NO. B04.06 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 206 1164 | | PLATFORM, INSULATED (Fibreglass) | 1 |
| 2 | 01-008000 | D14.01 | 4-WAY MANUAL VALVE (Platform level or rotate) | 2 |
| 3 | See Index . . | C08. - - | PLATFORM CONTROL CONSOLE ASSEMBLY | 1 |
| 4 | 01-020800 | | VALVE, CHECK | 1 |
| 5 | 01-000500 | | VALVE, NEEDLE | 1 |
| 6 | 03-010005 | | BATTERY (Gel Cell) | 1 |
| 7 | 02-010600 | D24.06 | ROTARY ACTUATOR | 1 |
| 8 | 01-001900 | | VALVE, DOUBLE LOCK | 1 |
| 9 | 08-002500 | | BUSHING, SLEEVE | 2 |
| 10 | See Index . . | D05. - - | HPC VALVE | 1 |
| 11 | 03-026600 | | SWITCH, LIMIT | 1 |
| 12 | 200 5146 | | FOOT PEDAL | 1 |
| 13 | 203 3893 | | PIN | 1 |
| 14 | 08-047000 | | RING, SNAP | 2 |
| 15 | 08-010500 | | BEARING, FLANGED | 2 |
| 16 | 205 6920 | | BRACKET, FOOT PEDAL MOUNTING | 1 |
| 17 | 08-010200 | | LINK ASSEMBLY | 1 |

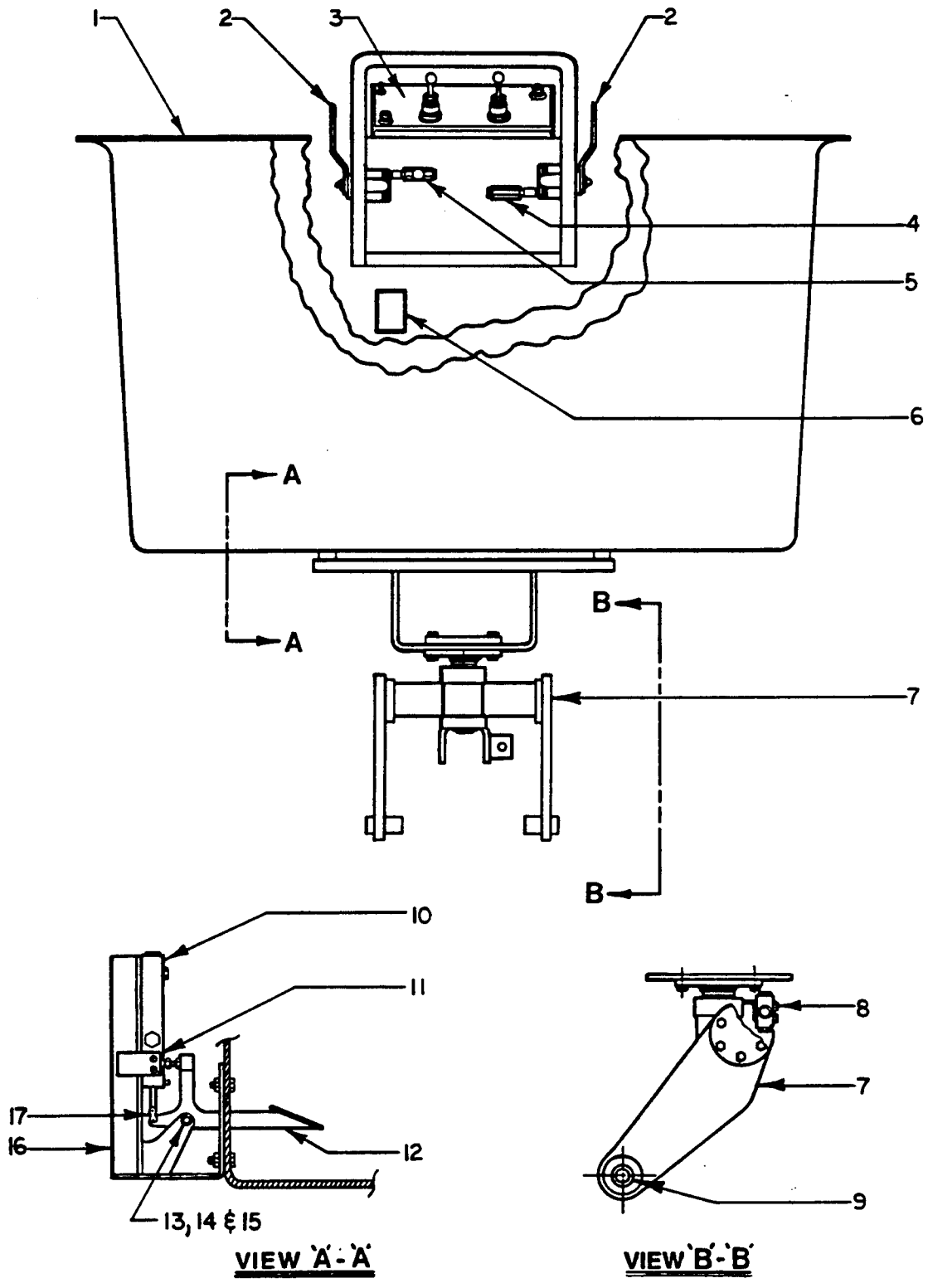
TITLE: INSULATED PLATFORM ASSEMBLY

PLATE NO. B04.08

**SIMON AERIALS INC.**

REV. 13 MAR., 1995 THIS SHEET ONLY

PART NO. 350 9849




VIEW 'A'-'A'

VIEW 'B'-'B'

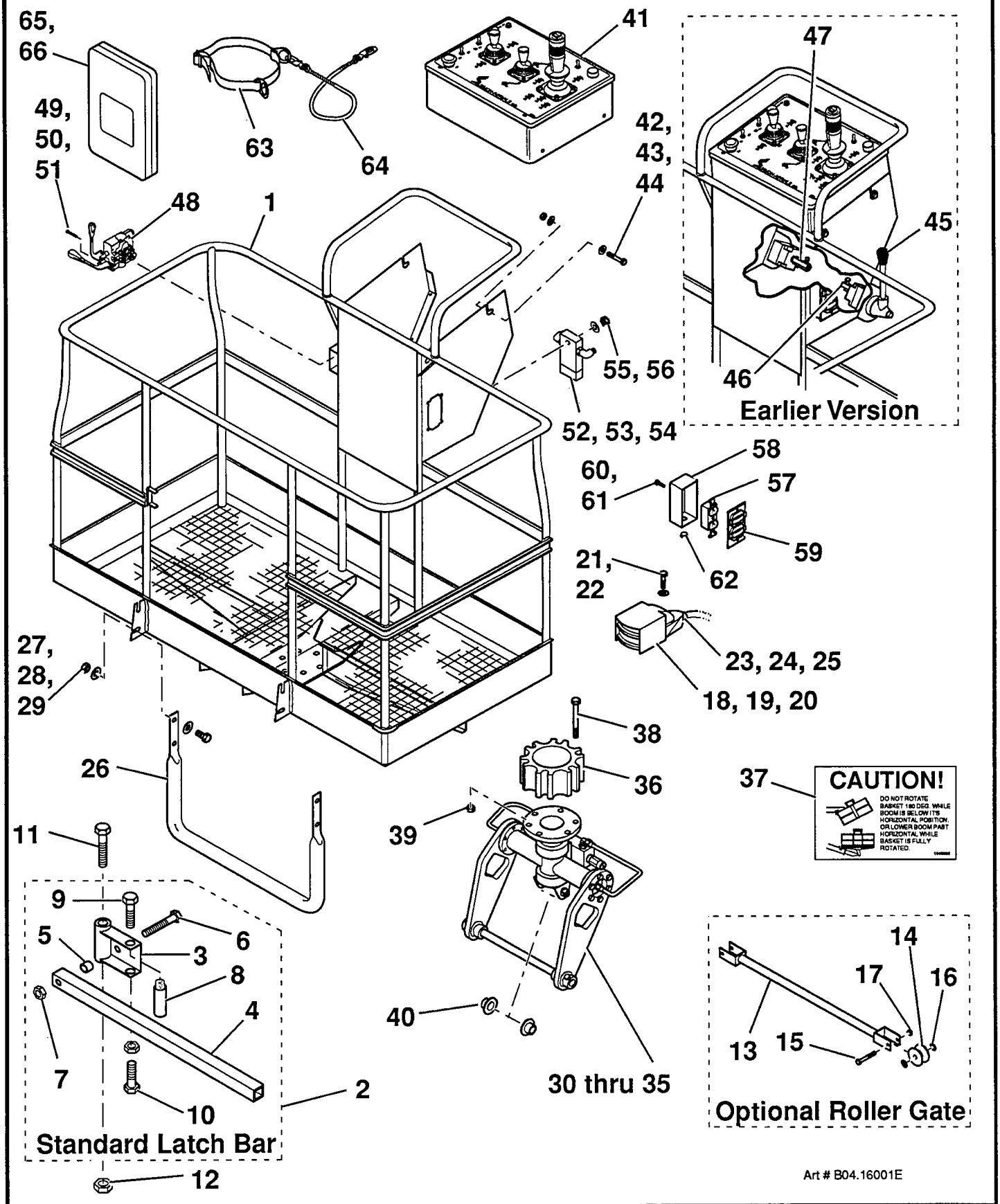
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| DESCRIPTION | PART NO. |
|---|---|
| INSULATED PLATFORM ASSEMBLY | A-D3509849 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | PLATFORM WELDMENT | |
| | | | (Standard type, with Rotary Actuator mounted **under** floor) | 1 |
| | | | For **"Type 2" Electro-Proportional** controls (with 3 | |
| | | | "Joystick" controls): | |
| | | | **Earlier** style, with Platform Rotate valve on left, and | |
| | | | Platform Level valve on right side of console: | |
| | 210 1540 | | **MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**) | |
| | Call Simon | | **MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**) | |
| | Call Simon | | **MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**) | |
| | | | **Later** style, with Platform Rotate and Level valves both | |
| | | | in box on outside of left side of console: | |
| | 230 5290 | | **MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**) | |
| | 230 5320 | | **MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**) | |
| | 230 5260 | | **MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**) | |
| 2 | 351 4160 | | BAR ASSEMBLY, LATCH (standard "Lift and Swing" style) | 1 |
| 3 | 204 1724 | | PIVOT, DOOR | 1 |
| 4 | 207 6577 | | BAR, LATCH | 1 |
| 5 | 204 1649 | | SPACER, LATCH BAR PIVOT | 1 |
| 6 | 07-003047 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5) | 1 |
| 7 | 07-050016 | | NUT, HEX LOCK (3/8"-16, Grade 5) | 1 |
| 8 | 08-010100 | | SPRING AND TUBE ASSEMBLY | 1 |
| 9 | 210 8380 | | SPACER | 1 |
| 10 | 07-003043 | | CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5) | 1 |
| 11 | 07-003096 | | CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5) | 1 |
| 12 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 1 |
| 13 | 219 8520 | | BAR, GATE (optional pull up "Roller Gate" style) | 1 |
| 14 | 219 8510 | | ROLLER, PULL UP GATE | 2 |
| 15 | 07-003051 | | CAP SCREW, HEX HEAD (3/8"-16 x 2-1/2", Grade 5) | 2 |
| 16 | 07-062016 | | WASHER, FLAT (7/16") | 4 |
| 17 | 07-050016 | | NUT, HEX LOCK (3/8"-16, Grade 5) | 2 |
| 18 | 03-021300 | | SWITCH ASSEMBLY, FOOT (Single pole) | 1 |
| 19 | 03-021301 | | SWITCH (Single pole, double throw) | 1 |
| 20 | 03-021302 | | COVER, SWITCH (Guard type, with latch) | 1 |
| 21 | 07-003003 | | CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5) **or** | 3 |
| | 07-003004 | | CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5) | 3 |
| 22 | 07-065014 | | WASHER, HELICAL LOCK (1/4") | 3 |
| 23 | 03-045000 | | REDUCER (3/4" to 1/2") | 1 |
| 24 | 03-045500 | | GRIP, CORD (1/2", with .31" to .38" seal) **or** | 1 |
| | 03-063300 | | GRIP, CORD (90°, 1/2", with .31" to .38" seal) | 1 |
| 25 | 03-085700 | | CABLE, ELECTRICAL (SJO, 4 conductor, #16 AWG) | |
| | | | (Bulk item, 7 Ft [2.1 M] required this application) | A.R. |

| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3) | |
|---|---|---|
| PLATE NO. B04.16 | **SIMON AERIALS INC.** NEW 01 DEC., 1994 | PART NO. |




Art # B04.16001E

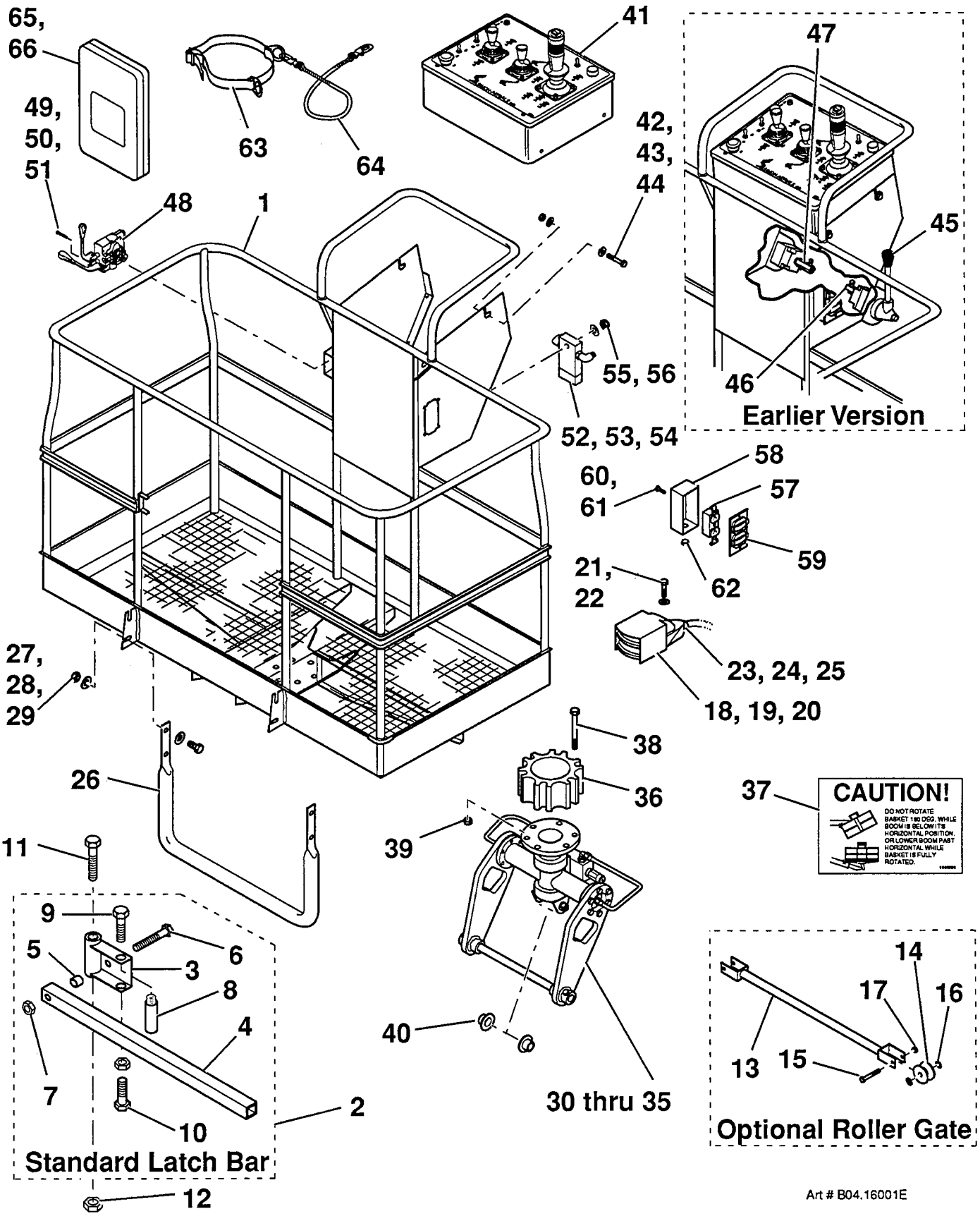
TITLE PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3)

**SIMON AERIALS INC.** NEW 01 DEC., 1994 | PART NO. | PLATE NO. B04.16

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 26 | | | STEP, PLATFORM | 1 |
| | 214 6800 | | Standard version (17-1/2" [.44 M] high) | |
| | 219 8710 | | Optional longer step (21-1/2" [.55 M] high) | |
| 27 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 4 |
| 28 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 4 |
| 29 | 07-062016 | | WASHER, FLAT (7/16") | 8 |
| 30 | See Index . . | D24.06 | ACTUATOR, ROTARY (Helical type, 180°) (includes pins) | 1 |
| 31 | | | PIN, PLATFORM PIVOT (1-1/4" x 20") | 1 |
| | 210 2940 | | except Canada (Standard type, included with actuator) | 1 |
| | 219 4480 | | CSA standards (Specify if this type is needed) | 1 |
| 32 | | | PIN, SLAVE CYLINDER (1-1/4" x 7-3/8") (Rod end) | |
| | 206 8879 | | except Canada (Standard type, included with actuator) | 1 |
| | 219 4500 | | CSA standards (Specify if this type is needed) | 1 |
| 33 | 01-001900 | | VALVE, DOUBLE LOCK | |
| | | | (Earlier versions. No cartridges protrude from block.) | 1 |
| 34 | 01-202000 | | MANIFOLD, RELIEF/ CHECK VALVE | |
| | | | (Later versions. Two cartridges protrude from block.) | 1 |
| 35 | 08-040700 | | RING, RETAINING (1-1/4") | 4 |
| 36 | | | SPACER, ROTARY ACTUATOR (for use with 96" platform) | 1 |
| | 233 5380 | | Model MP 40 (4" [102 mm] thick) | |
| | 233 5510 | | except Model MP40 (6" [152 mm] thick) | |
| 37 | 10-129200 | | DECAL, "CAUTION, DO NOT ROTATE . . ." (found on some earlier versions having 96" platform, but no spacer) | 1 |
| 38 | | | CAP SCREW, HEX HEAD (1/2"-13, Grade 8) | 6 |
| | 07-004089 | | 2" long, for all except with 96" platform | |
| | 07-004100 | | 6" long, for **Model MP 40** with 96" platform | |
| | 07-113400 | | 8", long, for models with 96" platform **except MP 40** | |
| 39 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 6 |
| 40 | 08-002200 | | BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" O.D. flange, 1-1/2" long) | 2 |
| 41 | See Index . . | C08. - - | PLATFORM CONTROL CONSOLE ASSEMBLY | 1 |
| 42 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 4 |
| 43 | 07-062016 | | WASHER, FLAT (3/8") | 8 |
| 44 | 07-050016 | | NUT, HEX LOCK (3/8"-16, Grade 5) | 4 |
| 45 | See Index . . | D14. - - | VALVE, 4-WAY MANUAL (Platform level or rotate) (Earlier versions) | 2 |
| 46 | 01-020800 | | VALVE, CHECK | 1 |
| 47 | 01-000500 | | VALVE, NEEDLE | 1 |

| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 3) | | |
|---|---|---|---|
| PLATE NO. B04.16 | **SIMON AERIALS INC.** NEW 01 DEC., 1994 | | PART NO. |



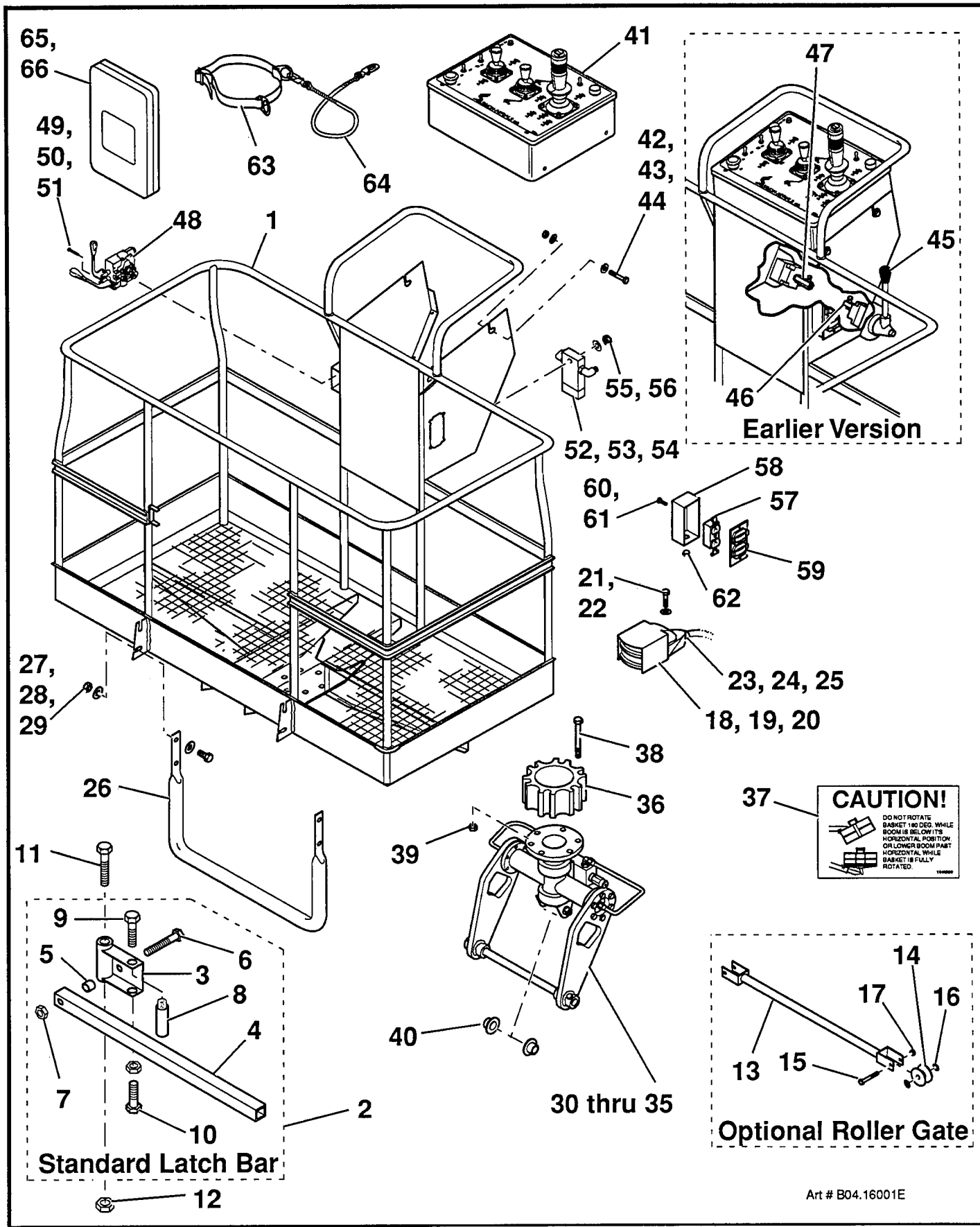

| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | NEW 01 DEC., 1994 | PART NO. | PLATE NO. B04.16 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 48 | See Index . . | D14. - - | VALVE, PLATFORM LEVEL AND ROTATE (Later versions) | 1 |
| 49 | 07-003009 | | CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5) | 2 |
| 50 | 07-060014 | | WASHER, FLAT (1/4", SAE) | 2 |
| 51 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 2 |
| 52 | 01-001900 | | VALVE, CHECK (Pilot operated) | 1 |
| 53 | 06-039500 | | ADAPTER, "O"-RING TO 37° (4-6 F50X-S) | 2 |
| 54 | 06-044400 | | 90° ELBOW, STRAIGHT THREAD (4-6 C50X-S) | 2 |
| 55 | 07-040015 | | NUT, HEX (5/16"-18, Grade 5) | 2 |
| 56 | 07-065015 | | WASHER, HELICAL LOCK (5/16") | 2 |
| 57 | 03-067000 | | OUTLET, DUPLEX (20 Amp, 110 Volt AC) | 1 |
| 58 | 03-062100 | | BOX, DUPLEX OUTLET (Weatherproof) | 1 |
| 59 | 03-062200 | | COVER, DUPLEX OUTLET (Weatherproof) | 1 |
| 60 | 07-011355 | | MACHINE SCREW, ROUND HEAD (#10-24 x 3/4") | 2 |
| 61 | 07-050011 | | NUT, LOCK (#10-24, Grade 2) | 2 |
| 62 | 03-042000 | | CONNECTOR, CABLE (2 screw, 3/8") | 1 |
| 63 | 10-034000 | | BELT, SAFETY | 1 |
| 64 | 10-033900 | | LANYARD, SAFETY BELT | 1 |
| 65 | 11-085200 | | BOX, TECHNICAL MANUAL STORAGE | 1 |
| 66 | 07-029365 | | SCREW, HEX WASHER HEAD (#12 x 1", Self drilling, with rubber seal) | 2 |
| 67 | 10-042500 | | COVER, CONSOLE CONTROLS (black vinyl) (option) | 1 |
| 68 | 10-163800 | | STUD, BUTTON SNAP (stainless steel) | A.R. |
| 69 | 07-099300 | | RIVET, BLIND (1/8" x 1/8", stainless steel) | A.R. |
| 70 | Call Simon | | HOSE KIT, PLATFORM | 1 |
| | | | **The following are also found on platform assemblies:** | |
| 71 | 205 4670 | | CLAMP, HOSE (2 hole, #4) | A.R. |
| 72 | 07-062014 | | WASHER, FLAT (1/4") | A.R. |
| 73 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | A.R. |
| 74 | 03-066400 | | TIE, CABLE (20" [508 mm] long) | A.R. |
| 75 | 03-064700 | | TIE, CABLE (14-1/2" [368 mm] long) | A.R. |
| 76 | 03-064000 | | TIE, CABLE (7.4" [188 mm] long) | A.R. |
| 77 | 03-064100 | | MOUNT, CABLE TIE (Adhesive backed) | A.R. |
| 78 | 10-113000 | | PROTECTOR, HOSE (Neoprene, 8" x 12" x 1/8" thick) | A.R. |
| | 10-113200 | | PROTECTOR, HOSE (Neoprene, 6" x 9" x 1/8" thick) | A.R. |

TITLE PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3)

PLATE NO. B04.16 | **SIMON AERIALS INC.** NEW 01 DEC., 1994 | PART NO.



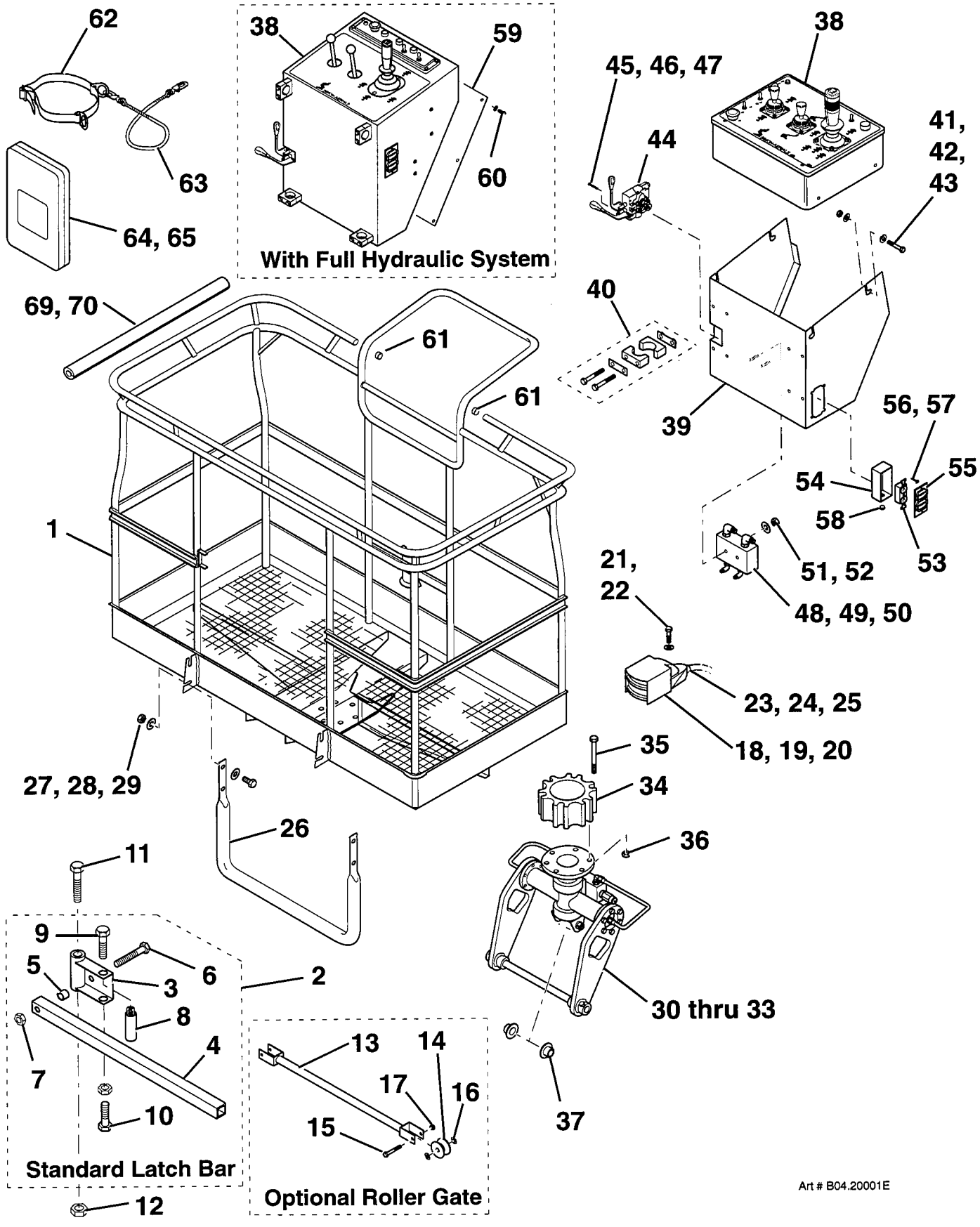

TITLE PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3)

| SIMON AERIALS INC. NEW 01 DEC., 1994 | PART NO. | PLATE NO. B04.16 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | PLATFORM WELDMENT | |
| | | | (Standard type, with Rotary Actuator mounted **under** floor) | 1 |
| | | | For **Full Hydraulic** (with 3 "Joystick" controls) **or** "Type 2" | |
| | | | **Electro-Proportional** (with 3 "Joystick controls"): | |
| | | | **Current** style, with Platform Rotate and Level valves | |
| | | | both inside left side of console: | |
| | 231 4680 | | **MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**) | |
| | 232 4340 | | **MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**) | |
| | 219 5480 | | **MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**) | |
| 2 | 351 4160 | | BAR ASSEMBLY, LATCH (standard "Lift and Swing" style) | 1 |
| 3 | 204 1724 | | PIVOT, DOOR | 1 |
| 4 | 207 6577 | | BAR, LATCH | 1 |
| 5 | 204 1649 | | SPACER, LATCH BAR PIVOT | 1 |
| 6 | 07-003047 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5) | 1 |
| 7 | 07-050016 | | NUT, HEX LOCK (3/8"-16, Grade 5) | 1 |
| 8 | 08-010100 | | SPRING AND TUBE ASSEMBLY | 1 |
| 9 | 210 8380 | | SPACER | 1 |
| 10 | 07-003043 | | CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5) | 1 |
| 11 | 07-003096 | | CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5) | 1 |
| 12 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 1 |
| 13 | 219 8520 | | BAR, GATE (optional pull up "Roller Gate" style) | 1 |
| 14 | 219 8510 | | ROLLER, PULL UP GATE | 2 |
| 15 | 07-003051 | | CAP SCREW, HEX HEAD (3/8"-16 x 2-1/2", Grade 5) | 2 |
| 16 | 07-062016 | | WASHER, FLAT (7/16") | 4 |
| 17 | 07-050016 | | NUT, HEX LOCK (3/8"-16, Grade 5) | 2 |
| 18 | 03-021300 | | SWITCH ASSEMBLY, FOOT (Single pole) | 1 |
| 19 | 03-021301 | | SWITCH (Single pole, double throw) | 1 |
| 20 | 03-021302 | | COVER, SWITCH (Guard type, with latch) | 1 |
| 21 | 07-003003 | | CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5) **or** | 3 |
| | 07-003004 | | CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5) | 3 |
| 22 | 07-065014 | | WASHER, HELICAL LOCK (1/4") | 3 |
| 23 | 03-045000 | | REDUCER (3/4" to 1/2") | 1 |
| 24 | 03-045500 | | GRIP, CORD (1/2", with .31" to .38" seal) **or** | 1 |
| | 03-063300 | | GRIP, CORD (90°, 1/2", with .31" to .38" seal) | 1 |
| 25 | 03-085700 | | CABLE, ELECTRICAL (SJO, 4 conductor, #16 AWG) | |
| | | | (Bulk item, 7 Ft [2.1 M] required this application) | A.R. |
| 26 | | | STEP, PLATFORM | 1 |
| | 214 6800 | | Standard version (17-1/2" [.44 M] high) | |
| | 219 8710 | | Optional longer step (21-1/2" [.55 M] high) | |
| 27 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 4 |
| 28 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 4 |
| 29 | 07-062016 | | WASHER, FLAT (7/16") | 8 |

| | | | |
|---|---|---|---|
| **TITLE** | PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3) | | |
| **PLATE NO.** B04.20 | **SIMON AERIALS INC.** | REV. 28 FEB., 1995 | **PART NO.** |

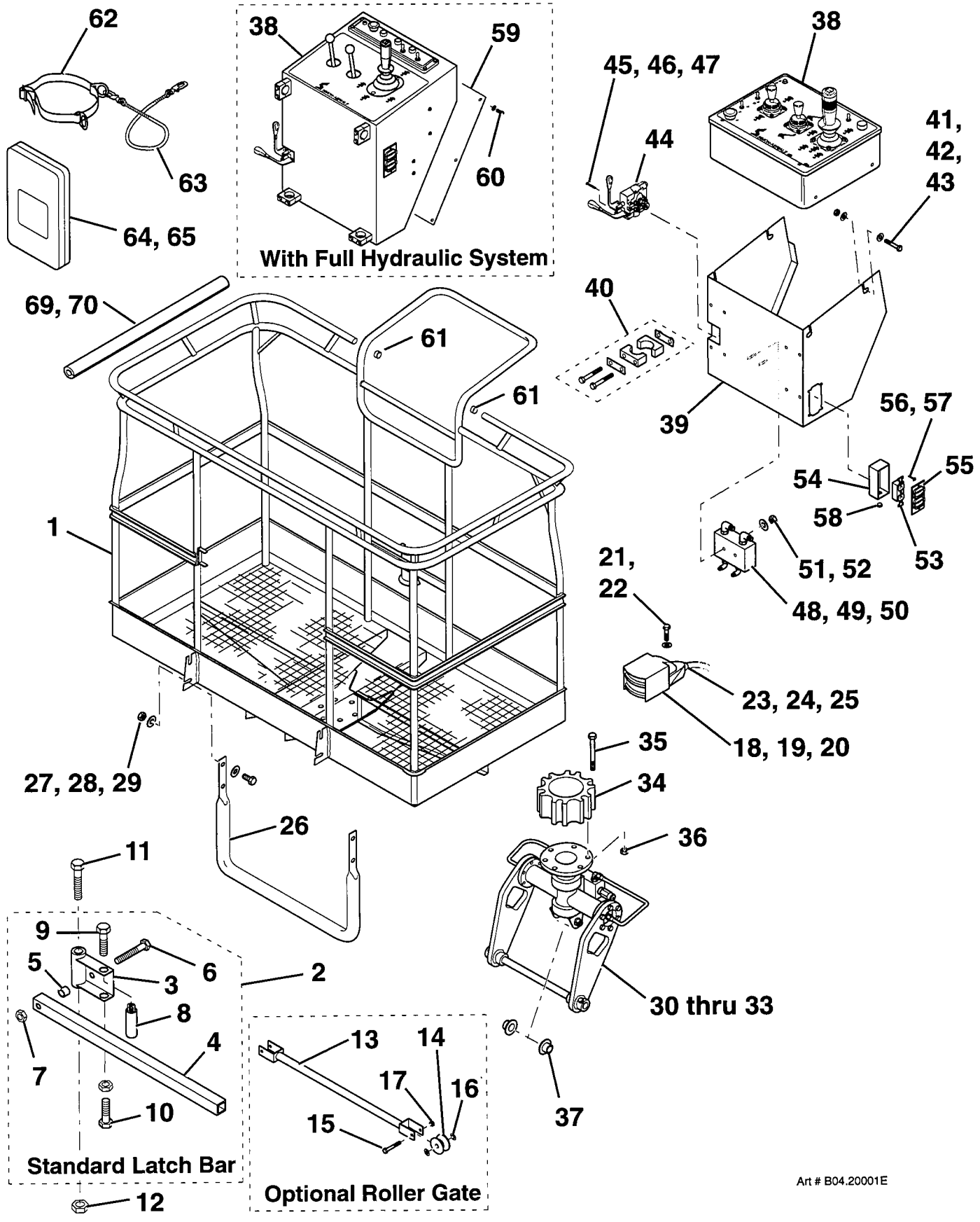



| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 28 FEB., 1995 | PART NO. | PLATE NO. B04.20 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 30 | 02-010600 | D24.06 | ACTUATOR, ROTARY (Helical type, 180°) (includes pins) | 1 |
| 31 | | | PIN, PLATFORM PIVOT (1-1/4" x 20") | 1 |
| | 210 2940 | | except Canada (Standard type, included with actuator) | 1 |
| | 219 4480 | | CSA standards (Specify if this type is needed) | 1 |
| 32 | | | PIN, SLAVE CYLINDER (1-1/4" x 7-3/8") (Rod end) | |
| | 206 8879 | | except Canada (Standard type, included with actuator) | 1 |
| | 219 4500 | | CSA standards (Specify if this type is needed) | 1 |
| 33 | 08-040700 | | RING, RETAINING (1-1/4") | 4 |
| 34 | | | SPACER, ROTARY ACTUATOR (if required, see below) | 1 |
| | 233 5380 | | for Model MP 40 using 96" platform (4" [102 mm] thick) | |
| | 233 5510 | | for other than MP 40 with 96" platform (6" [152 mm] thick) | |
| | 235 1980 | | for Model MP 70, special application (1-1/2" [38 mm] thick) | |
| 35 | | | CAP SCREW, HEX HEAD (1/2"-13, Grade 8) | 6 |
| | 07-004089 | | 2" long (for all versions not using rotary actuator spacer) | |
| | 07-004095 | | 3-1/2" long (for versions having 1-1/2" [38 mm] spacer) | |
| | 07-004100 | | 6" long (for versions having 4" [102 mm] spacer) | |
| | 07-113400 | | 8" long (for versions having 6" [152 mm spacer) | |
| 36 | 07-058400 | | NUT, LOCK (1/2"-13, Grade 8) | 6 |
| 37 | 08-002200 | | BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" O.D. flange, 1-1/2" long) | 2 |
| 38 | See Plate . . | C08. - - | PLATFORM CONTROL CONSOLE ASSEMBLY | 1 |
| 39 | | | BRACKET, CONSOLE MOUNTING | 1 |
| | | | With Full Hydraulic control (Part of Console Assembly) | |
| | 231 4460 | | With Electro-Proportional control (includes [4] clamps) | |
| 40 | 10-069600 | | CLAMP, TUBE (1-1/4" O.D.) | 4 |
| 41 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 4 |
| 42 | 07-062016 | | WASHER, FLAT (3/8") | 8 |
| 43 | 07-050016 | | NUT, HEX LOCK (3/8"-16, Grade 5) | 4 |
| 44 | See Plate . . | D14. - - | VALVE, PLATFORM LEVEL AND ROTATE | 1 |
| 45 | 07-003009 | | CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5) | 2 |
| 46 | 07-060014 | | WASHER, FLAT (1/4", SAE) | 2 |
| 47 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 2 |
| 48 | 01-001900 | | VALVE, CHECK (Pilot operated) | 1 |
| 49 | 06-039500 | | ADAPTER, "O"-RING TO 37° (4-6 F50X-S) | 2 |
| 50 | 06-044400 | | 90° ELBOW, STRAIGHT THREAD (4-6 C50X-S) | 2 |
| 51 | 07-040015 | | NUT, HEX (5/16"-18, Grade 5) | 2 |
| 52 | 07-065015 | | WASHER, HELICAL LOCK (5/16") | 2 |

| | | | | |
|---|---|---|---|---|
| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 3) | | | |
| PLATE NO. B04.20 | **SIMON AERIALS INC.** | REV. 30 AUG., 1995 THIS SHEET ONLY | PART NO. | |

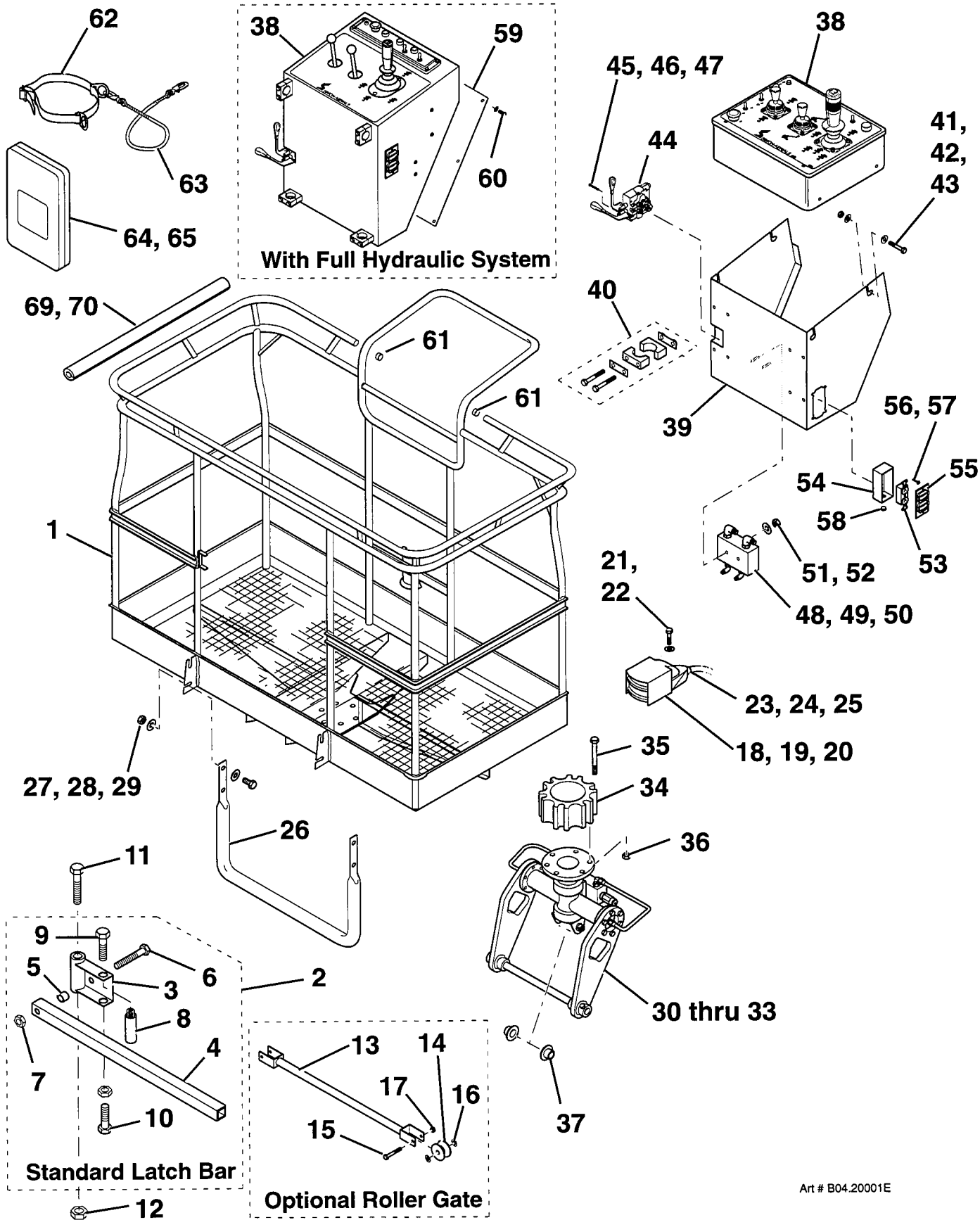



| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 28 FEB., 1995 | PART NO. | PLATE NO. B04.20 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 53 | | | RECEPTACLE, ELECTRICAL CONVENIENCE | 1 |
| | 03-067000 | | Duplex, 20 Amp, 110 Volt AC, Self-grounding | |
| | 03-711300 | | Single, 20 Amp, 220 Volt AC | |
| 54 | 03-062100 | | BOX, ELECTRICAL RECEPTACLE (Weatherproof) | 1 |
| 55 | | | COVER, ELECTRICAL RECEPTACLE (Weatherproof) | 1 |
| | 03-062200 | | For standard 110 Volt Duplex outlet | |
| | 03-711400 | | For single 220 Volt outlet | |
| 56 | 07-011355 | | MACHINE SCREW, ROUND HEAD (#10-24 x 3/4") | 2 |
| 57 | 07-050011 | | NUT, LOCK (#10-24, Grade 2) | 2 |
| 58 | 03-042000 | | CONNECTOR, CABLE (2 screw, 3/8") | 1 |
| 59 | 219 9060 | | COVER, CONTROL CONSOLE (Full Hydraulic only) | 1 |
| 60 | 07-029365 | | SCREW, HEX WASHER HEAD | |
| | | | (#12 x 1", Self drilling, with rubber seal) | 2 |
| 61 | 11-203300 | | CAPLUG (1-1/4" I.D.) | 2 |
| 62 | 10-034000 | | BELT, SAFETY | 1 |
| 63 | 10-033900 | | LANYARD, SAFETY BELT | 1 |
| 64 | 11-085200 | | BOX, TECHNICAL MANUAL STORAGE | 1 |
| 65 | 07-029365 | | SCREW, HEX WASHER HEAD | |
| | | | (#12 x 1", Self drilling, with rubber seal) | 2 |
| 66 | | | COVER, CONSOLE CONTROLS (black vinyl) (option) | 1 |
| | 10-042500 | | With Electro-Proportional controls | |
| | 10-159100 | | With Full Hydraulic controls (for optional metal cover, see Plate B04.299) | |
| 67 | 10-163800 | | STUD, BUTTON SNAP (stainless steel) | 4 |
| 68 | 07-099300 | | RIVET, BLIND (1/8" x 1/8", stainless steel) | 4 |
| 69 | 10-063200 | | TUBING, FOAM INSULATION (option) | |
| | | | (1-1/8" [29 mm] I.D., 1" [25.4 mm] wall) | A.R. |
| 70 | 10-089500 | | TAPE, MARKING (to wrap optional foam tubing) | |
| | | | (Yellow, 2" [51 mm] wide x 36 Yd. [32.9 M] long roll) | A.R. |
| 71 | 353 7390 | | HOSE KIT, PLATFORM (Electro-Proportional) | 1 |
| | 353 7260 | | HOSE KIT, PLATFORM (Full Hydraulic) | 1 |
| | | | **The following are also found on platform assemblies:** | |
| 72 | 205 4670 | | CLAMP, HOSE (2 hole, #4) | A.R. |
| 73 | 07-062014 | | WASHER, FLAT (1/4") | A.R. |
| 74 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | A.R. |
| 75 | 03-066400 | | TIE, CABLE (20" [508 mm] long) | A.R. |
| 76 | 03-064700 | | TIE, CABLE (14-1/2" [368 mm] long) | A.R. |
| 77 | 03-064000 | | TIE, CABLE (7.4" [188 mm] long) | A.R. |
| 78 | 03-064100 | | MOUNT, CABLE TIE (Adhesive backed) | A.R. |
| 79 | 10-113000 | | PROTECTOR, HOSE (Neoprene, 8" x 12" x 1/8" thick) | A.R. |
| | 10-113200 | | PROTECTOR, HOSE (Neoprene, 6" x 9" x 1/8" thick) | A.R. |

| | | | |
|---|---|---|---|
| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3) | | |
| PLATE NO. B04.20 | **SIMON AERIALS INC.** | REV. 28 FEB., 1995 | PART NO. |

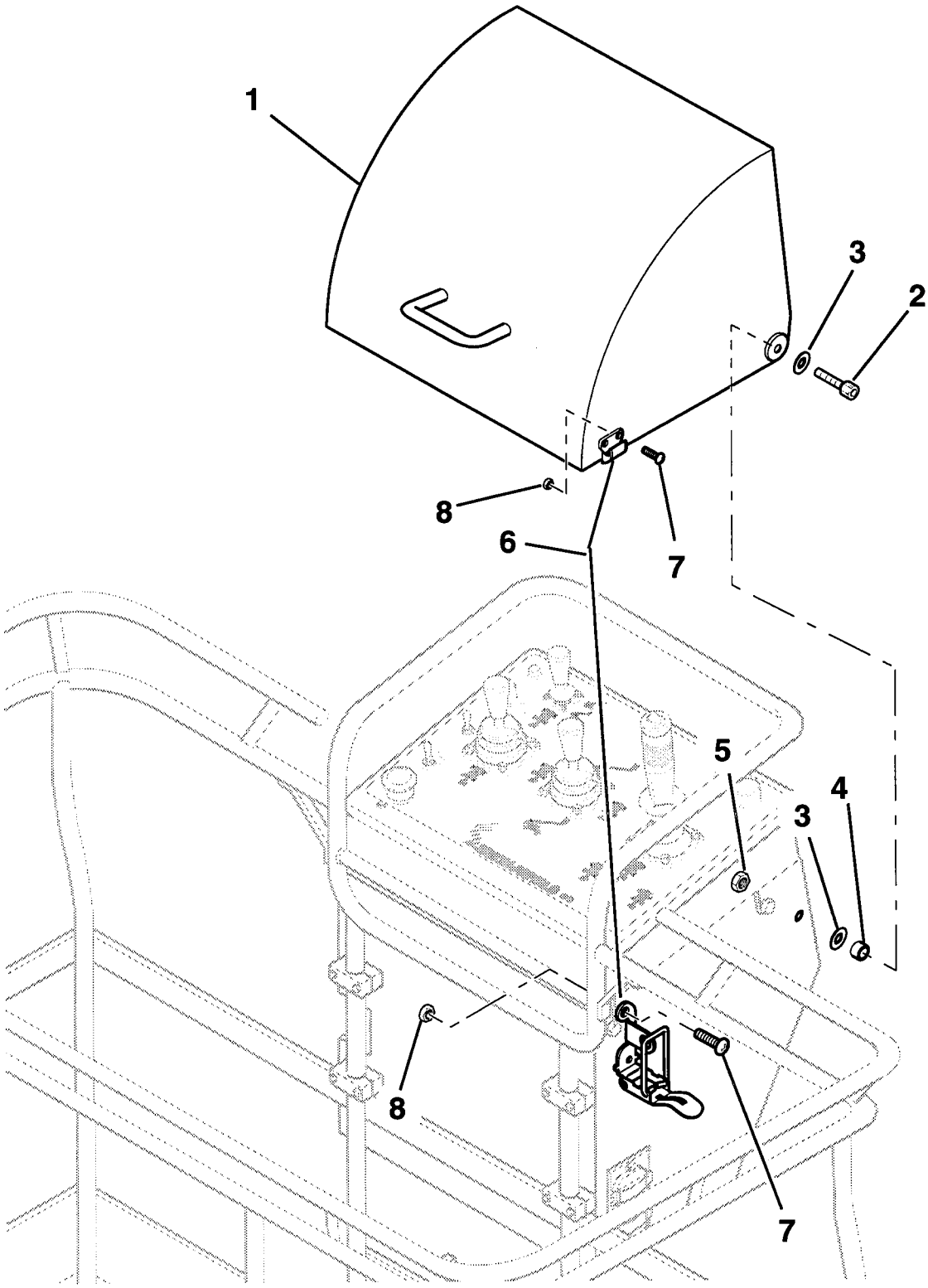



| TITLE | PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 28 FEB., 1995 | PART NO. | PLATE NO. B04.20 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 2326430 | | COVER WELDMENT, PLATFORM CONSOLE | 1 |
| 2 | 07-017046 | | CAP SCREW, BUTTON HEAD (3/8"-16 x 1-1/4", Hex socket, Grade 5) | 2 |
| 3 | 07-062016 | | WASHER, FLAT (3/8") | 4 |
| 4 | 06-059000 | | SLEEVE (6 TX-S Hydraulic Fitting) | 2 |
| 5 | 07-040016 | | NUT, HEX (3/8"-16, Grade 5) | 2 |
| 6 | 10-030100 | | LATCH, DRAW | 2 |
| 7 | 07-013414 | | MACHINE SCREW, ROUND HEAD (#10-32 x 1/2", Grade 2) | 4 |
| 8 | 07-040111 | | NUT, HEX LOCK (#10-32, Grade 5) | 4 |

| | | | | |
|---|---|---|---|---|
| TITLE | PLATFORM CONSOLE COVER ASSEMBLY, MP/ RP SERIES | | | |
| PLATE NO. | B04.299 | **SIMON AERIALS INC.** | REV. 27 OCT., 1994 | PART NO. 2326440 |




Art # B04.29901E

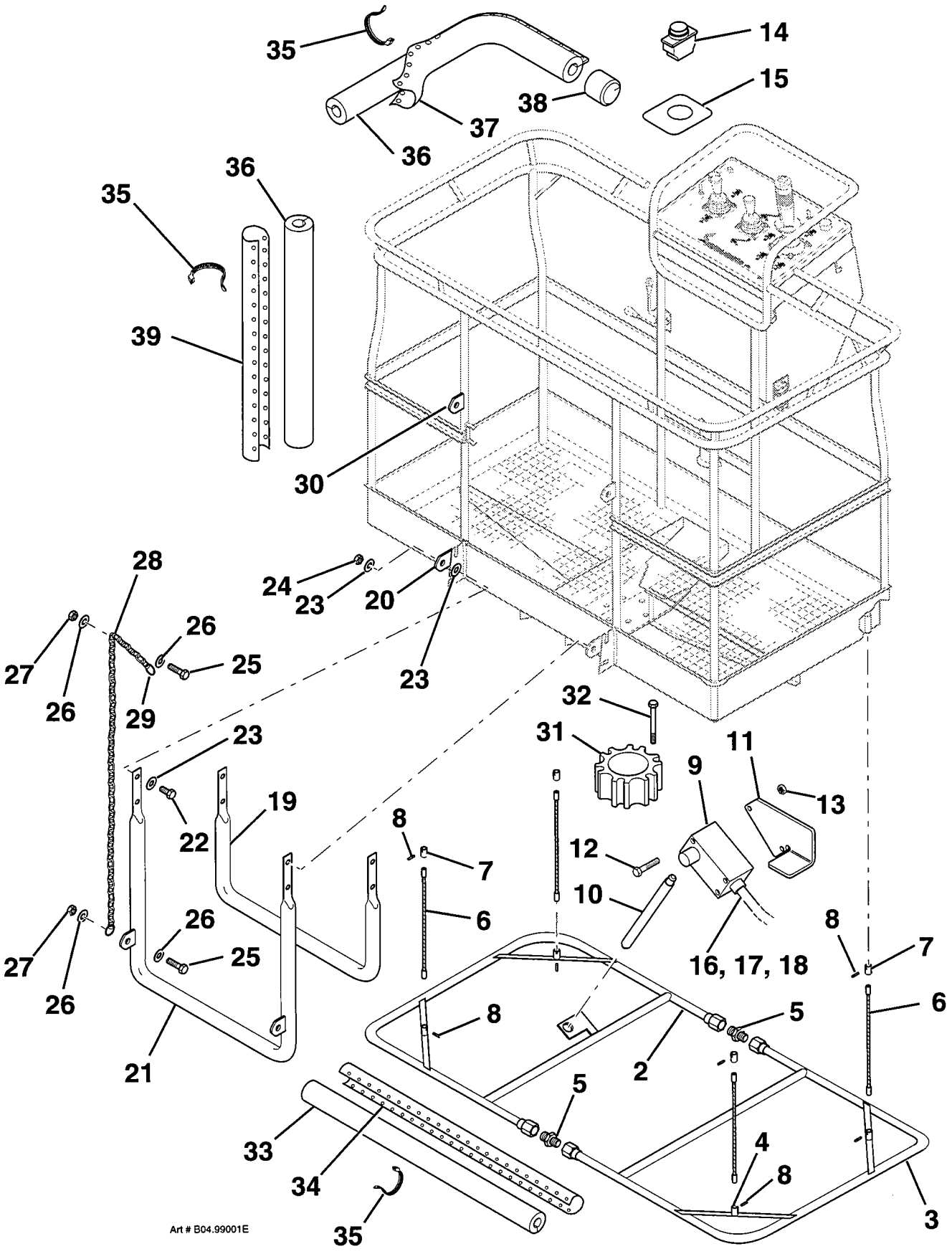
| TITLE | PLATFORM CONSOLE COVER ASSEMBLY, MP/ RP SERIES | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 27 OCT., 1994 | PART NO. 2326440 | PLATE NO. B04.299 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | SENSOR RING PACKAGE | 1 |
| | Call Simon | | for 36" x 60" (.91 M x 1.52 M) Platform | |
| | 234 5620 | | for 36" x 72" (.91 M x 1.83 M) Platform | |
| | Call Simon | | for 36" x 96" (.91 M x 2.44 M) Platform | |
| 1 | | | SENSOR RING ASSEMBLY | 1 |
| | Call Simon | | for 36" x 60" (.91 M x 1.52 M) Platform | |
| | 234 5530 | | for 36" x 72" (.91 M x 1.83 M) Platform | |
| | Call Simon | | for 36" x 96" (.91 M x 2.44 M) Platform | |
| 2 | | | SENSOR RING HALF (with limit switch actuator plate) | |
| | | | (includes [2] collars, 217 3950) | 1 |
| | Call Simon | | for 36" x 60" (.91 M x 1.52 M) Platform | |
| | 234 5540 | | for 36" x 72" (.91 M x 1.83 M) Platform | |
| | Call Simon | | for 36" x 96" (.91 M x 2.44 M) Platform | |
| 3 | | | SENSOR RING HALF (without limit switch actuator plate) | |
| | | | (includes [2] collars, 217 3950) | 1 |
| | Call Simon | | for 36" x 60" (.91 M x 1.52 M) Platform | |
| | 231 4490 | | for 36" x 72" (.91 M x 1.83 M) Platform | |
| | Call Simon | | for 36" x 96" (.91 M x 2.44 M) Platform | |
| 4 | 217 3950 | | COLLAR, SENSOR RING | 4 |
| 5 | 06-015300 | | UNION (12 HTX-S) | 2 |
| 6 | 218 3350 | | WIRE ROPE ASSEMBLY | 4 |
| 7 | 217 3950 | | COLLAR, SENSOR RING (welded to platform) | 4 |
| 8 | 07-023600 | | SET SCREW, SOCKET HEAD (1/4"-20 x 1/2", Grade 5) | 8 |
| 9 | 03-428300 | | SWITCH, LIMIT | 1 |
| 10 | 217 5320 | | ROD, SENSOR RING SWITCH | 1 |
| 11 | 234 5550 | | BRACKET, SWITCH MOUNTING | 1 |
| 12 | 07-003006 | | CAP SCREW, HEX HEAD (1/4"-20 x 1-1/4", Grade 5) | 2 |
| 13 | 07-050014 | | NUT, HEX LOCK (1/4"-20, Grade 5) | 2 |
| 14 | 03-020300 | | SWITCH, PUSHBUTTON (Sensor ring override) | 1 |
| 15 | 10-116800 | | DECAL, "SENSOR RING OVERRIDE . . ." | 1 |
| 16 | 03-085200 | | CABLE, ELECTRICAL (SJO, 2 conductor, #16 AWG) | |
| | | | (Bulk item, order as needed. 7 Ft. [2.1 M] needed here) | A.R. |
| 17 | 03-045500 | | GRIP, CORD (1/2") | 2 |
| 18 | 03-055500 | | NUT, CONDUIT LOCK (1/2") | 1 |

TITLE PLATFORM SENSOR RING ASSEMBLY (PLATE 1 OF 2)

PLATE NO. B04.99 | **SIMON AERIALS INC.** NEW 23 MAR., 1995 | PART NO.

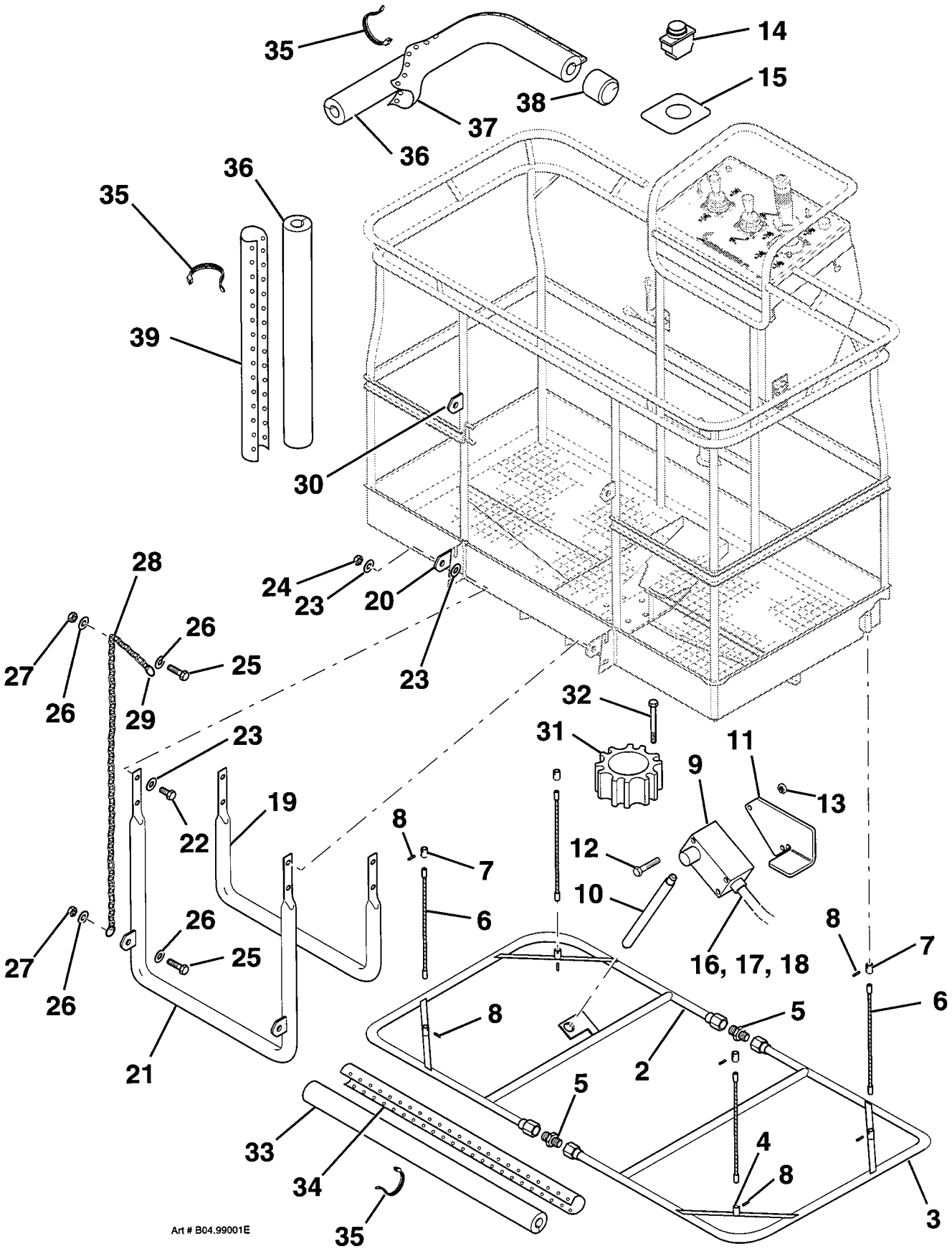



| | | | |
|---|---|---|---|
| **TITLE** | PLATFORM SENSOR RING ASSEMBLY (PLATE 1 OF 2) | | |
| **SIMON AERIALS INC.** NEW 23 MAR., 1995 | | **PART NO.** | **PLATE NO.** B04.99 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 19 | 234 5560 | | STEP, FIXED (12-1/4" [.31 M] long) (replaces step found on standard platform) | 1 |
| 20 | 234 5570 | | TAB, STEP MOUNTING | 2 |
| 21 | 234 5590 | | STEP, FOLDING (28-1/8" [.71 M] long) | 1 |
| 22 | 07-003065 | | CAP SCREW, HEX HEAD (7/16"-14 x 1", Grade 5) | 2 |
| 23 | 07-062017 | | WASHER, FLAT (7/16") | 6 |
| 24 | 07-050017 | | NUT, HEX LOCK (7/16"-14, Grade 5) | 2 |
| 25 | 07-003026 | | CAP SCREW, HEX HEAD (5/16"-18 x 1-1/4", Grade 5) | 4 |
| 26 | 07-062015 | | WASHER, FLAT (5/16") | 8 |
| 27 | 07-050015 | | NUT, HEX LOCK (5/16"-18, Grade 5) | 4 |
| 28 | 234 5610 | | CHAIN (For side with hook. Approx. 47.7" [1.21 M] long) | 1 |
| | 234 5600 | | CHAIN (Side without hook. Approx. 45.2" [1.15 M] long) | 1 |
| 29 | 11-078000 | | HOOK, SNAP | 1 |
| 30 | 208 4608 | | TAB, CHAIN MOUNTING | 2 |
| 31 | 233 5510 | | SPACER, PLATFORM (6" [152 mm]) | 1 |
| 32 | 07-113400 | | CAP SCREW, HEX HEAD (1/2"-13 x 8", Grade 8) | 6 |
| 33 | 10-063300 | | TUBING, SPONGE INSULATION (7/8" I.D., 1" wall) (6 Ft. [1.8 M] section) (4) needed for 36" x 72" platform | A.R. |
| 34 | | | COVER, SENSOR RING (Black, vinyl coated nylon) | 2 |
| | Call Simon | | for 36" x 60" Platform | |
| | 10-259301 | | for 36" x 72" Platform (131" [3.3 M] long) | |
| | Call Simon | | for 36" x 96" Platform | |
| 35 | 03-064000 | | TIE, CABLE (7.4" [188 mm] long) | 208 |
| 36 | 10-063200 | | TUBING, SPONGE INSULATION (1-1/8" I.D., 1" wall) (6 Ft. [1.8 M] section) | 6 |
| 37 | | | COVER, TOP RAIL (Black, vinyl coated nylon) | 1 |
| | Call Simon | | for 36" x 60" Platform | |
| | 10-255406 | | for 36" x 72" Platform (212" [5.4 M] long) | |
| | Call Simon | | for 36" x 96" Platform | |
| 38 | 10-255500 | | CAP, END (Black, vinyl coated nylon) | 2 |
| 39 | 10-255407 | | COVER, PLATFORM CORNER (Black, vinyl coated nylon) (41" [1.04 M] long) | 4 |

| TITLE | PLATFORM SENSOR RING ASSEMBLY (PLATE 2 OF 2) | |
|---|---|---|
| PLATE NO. B04.99 | **SIMON AERIALS INC.** NEW 23 MAR., 1995 | PART NO. |

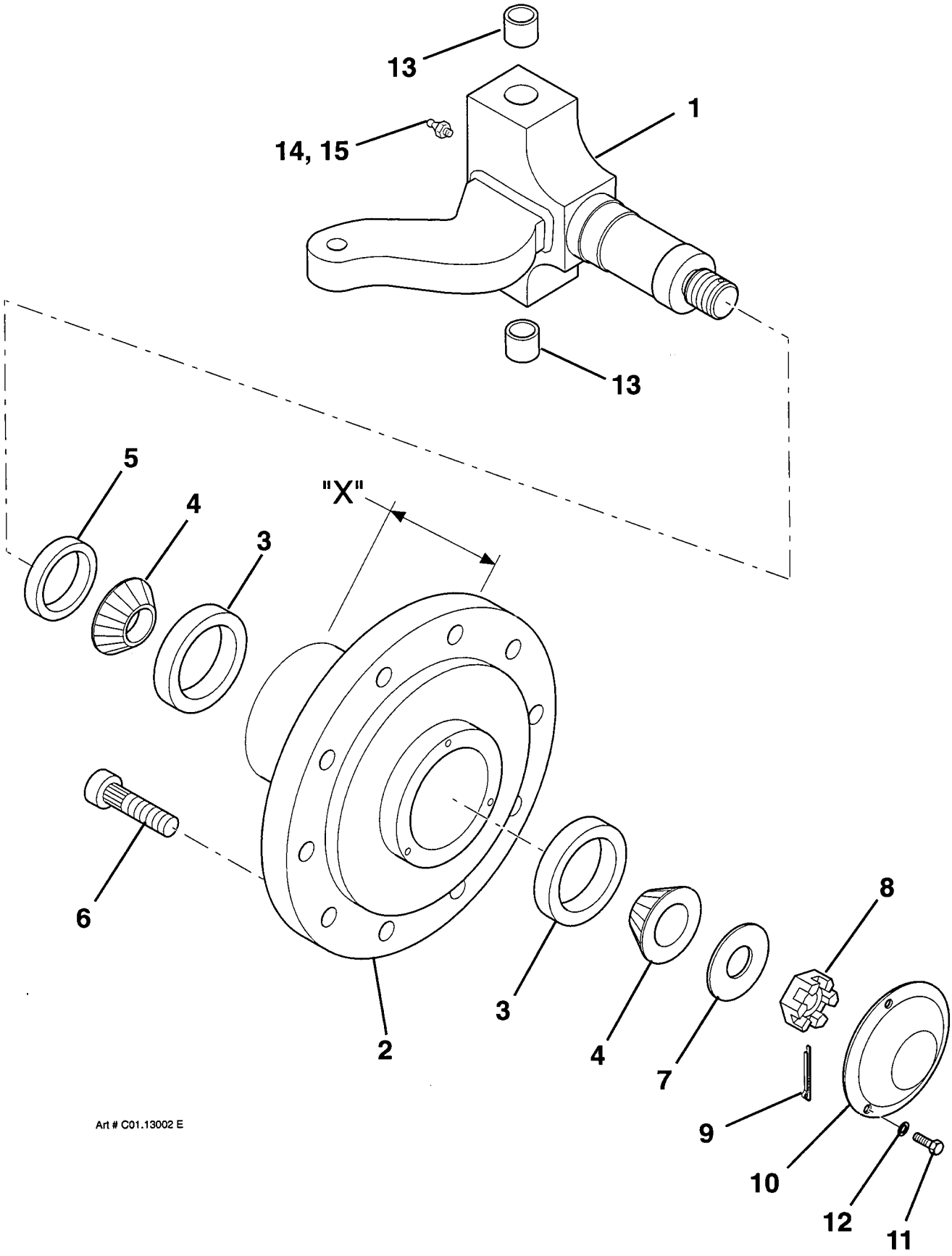



| | | | |
|---|---|---|---|
| TITLE | PLATFORM SENSOR RING ASSEMBLY (PLATE 2 OF 2) | | |
| **SIMON AERIALS INC.** | NEW 23 MAR., 1995 | PART NO. | PLATE NO. B04.99 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | 209 7952 | | SPINDLE ASSEMBLY (left and right) (Type 1, **without** bushings or grease fitting for pin) | 2 |
| | 350 9869 | | SPINDLE ASSEMBLY (left and right) (Type 2, **with** bushings and grease fitting for pin) | 2 |
| 1 | 209 0775 | | SPINDLE (not drilled for pin bearings or grease fitting) | 1 |
| 2 | | | HUB, SPINDLE | |
| | 202 2585 | | [Standard. Dimension "X" = 2-5/8" (66.7 mm)] | 1 |
| | 202 6457 | | [Special. Dimension "X" = 4" (101.6 mm)] | 1 |
| 3 | 08-003400 | | CUP, BEARING (4.437" O.D.) | 2 |
| 4 | 08-003500 | | CONE, ROLLER BEARING (2.750" I.D.) | 2 |
| 5 | 01-030700 | | SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.) | 1 |
| 6 | 07-030651 | | STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5) | 10 |
| 7 | 07-062027 | | WASHER, FLAT (1-3/4") | 1 |
| 8 | 07-045227 | | NUT, HEX (Slotted) (1-3/4"-12, Grade 5) | 1 |
| 9 | 07-070511 | | PIN, COTTER (1/8" x 2-1/2" long) | 1 |
| 10 | 202 1131 | | PLATE, SPINDLE END COVER | 1 |
| 11 | 07-003001 | | CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5) | 3 |
| 12 | 07-065014 | | WASHER, HELICAL LOCK (1/4") | 3 |
| | | | The following items are used **only** with Spindle Assembly 3509869 ("Type 2" assembly): | |
| 13 | 08-014000 | | BEARING, SLEEVE (1-1/2" I.D., 1-3/4" O.D., 1-1/2" long) | 2 |
| 14 | 08-051300 | | FITTING, GREASE (1/8", 90°) | 1 |
| 15 | 08-066300 | | CAP, GREASE FITTING (White plastic) | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | SPINDLE ASSEMBLY, RIGHT AND LEFT HAND | | | |
| PLATE NO. | C01.13 | **SIMON AERIALS INC.** | REV. 22 NOV., 1994 | PART NO. |



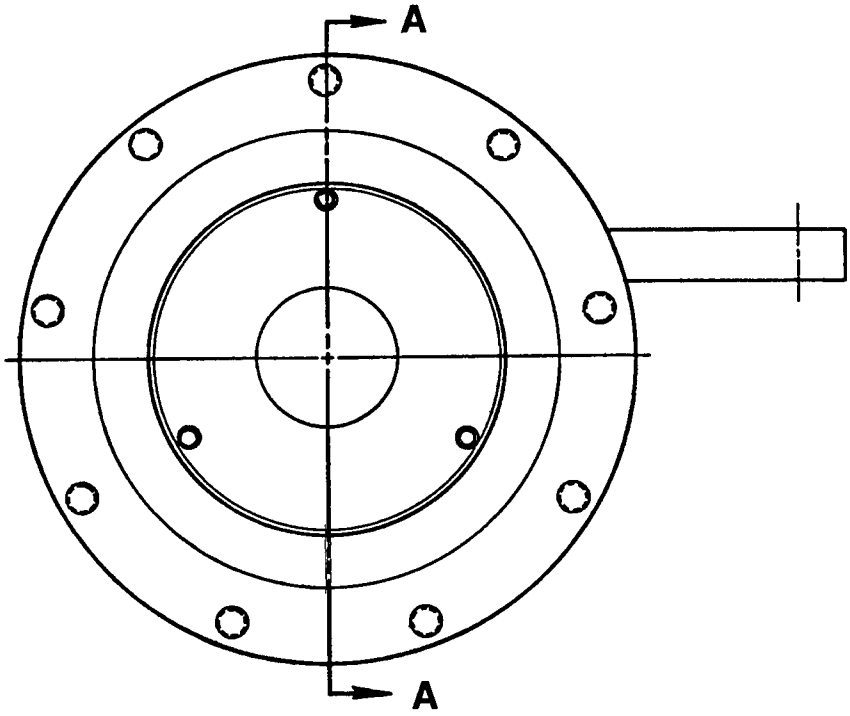

| TITLE | SPINDLE ASSEMBLY, RIGHT AND LEFT HAND | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 22 NOV., 1994 | | PART NO. | PLATE NO. C01.13 |

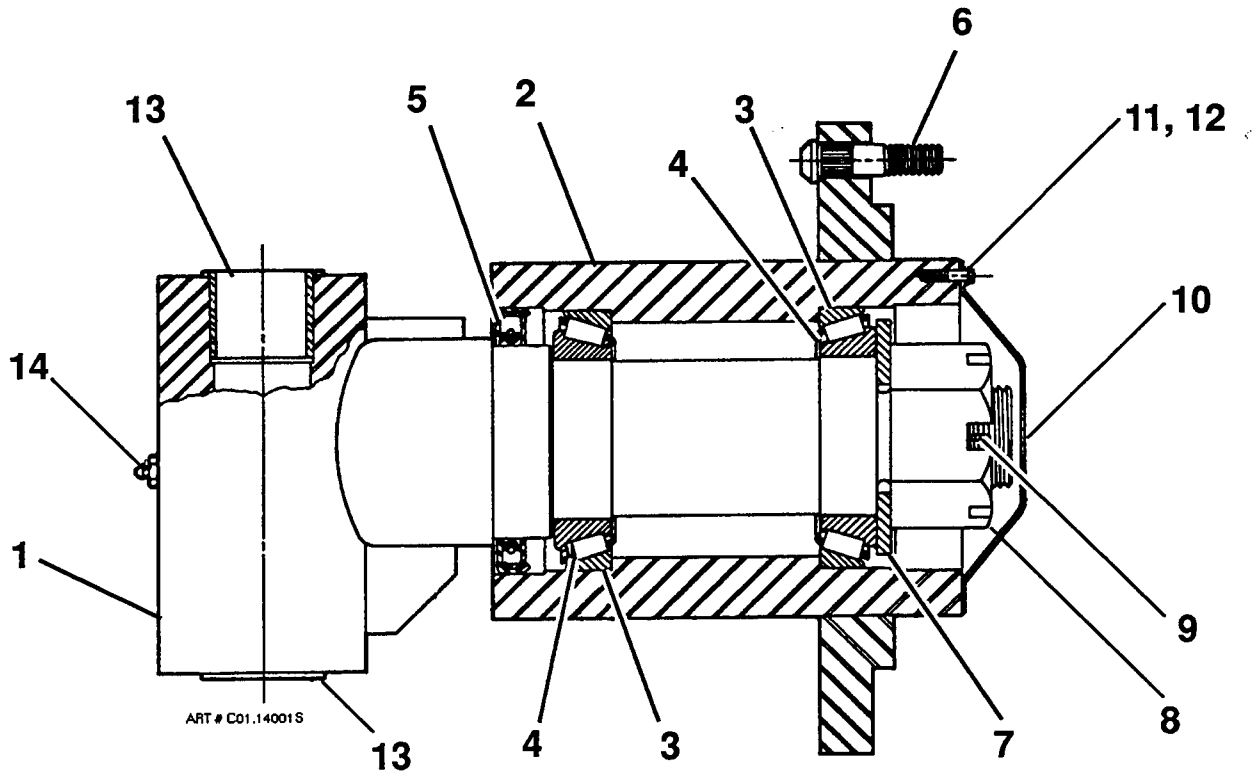
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | 3502495 | | SPINDLE ASSEMBLY (Right) | 1 |
| 1 | 2070702 | | SPINDLE (Right) | 1 |
| 2 | 2022585 | | HUB, SPINDLE | 1 |
| 3 | 08-003400 | | CUP, BEARING (4.437" O.D.) | 2 |
| 4 | 08-003500 | | CONE AND ROLLER, BEARING (2.750" I.D.) | 2 |
| 5 | 01-030700 | | SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.) | 1 |
| 6 | 07-030651 | | STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5) | 10 |
| 7 | 07-062027 | | WASHER, FLAT (1-3/4") | 1 |
| 8 | 07-045227 | | NUT, HEX (Slotted) (1-3/4"-12, Grade 5) | 1 |
| 9 | 07-070511 | | PIN, COTTER (1/8" x 2-1/2" long) | 1 |
| 10 | 2021131 | | PLATE, SPINDLE END COVER | 1 |
| 11 | 07-003001 | | CAP SCREW, HEX HEAD (1/4" - 20 X 1/2", Grade 5) | 3 |
| 12 | 07-065014 | | WASHER, HELICAL LOCK (1/4") | 3 |
| 13 | 08-014000 | | BEARING SLEEVE (1-1/2" I.D., 1-1/2" long) | 2 |
| 14 | 08-051300 | | FITTING, GREASE (1/8", 90°) | 1 |

TITLE: SPINDLE ASSEMBLY, RIGHT HAND

PLATE NO. C01.14 | **SIMON AERIALS INC.** REV. 12 MAR., 1993 | PART NO. 3502495



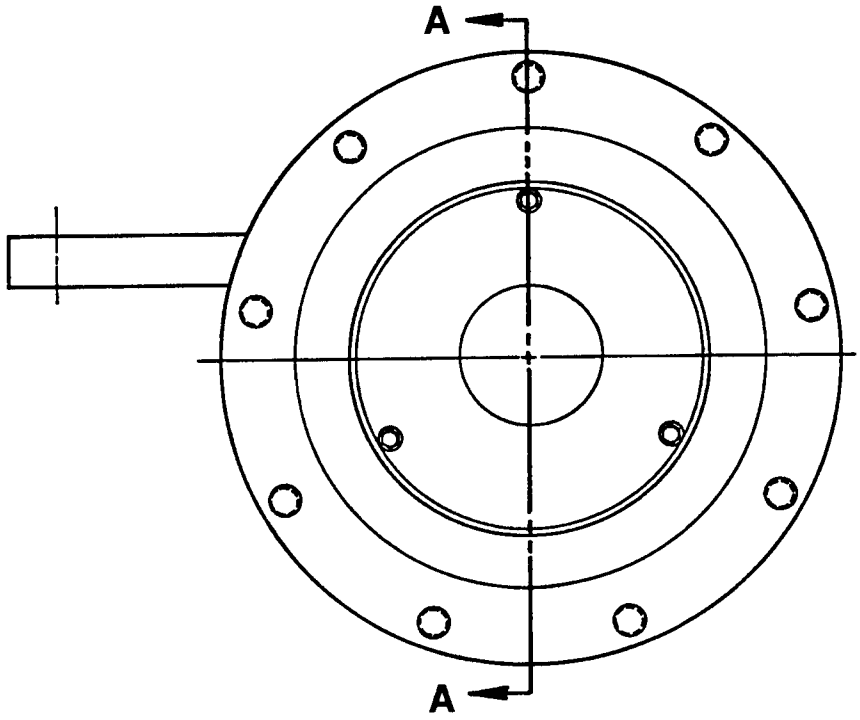

**SECTION "A" - "A"**

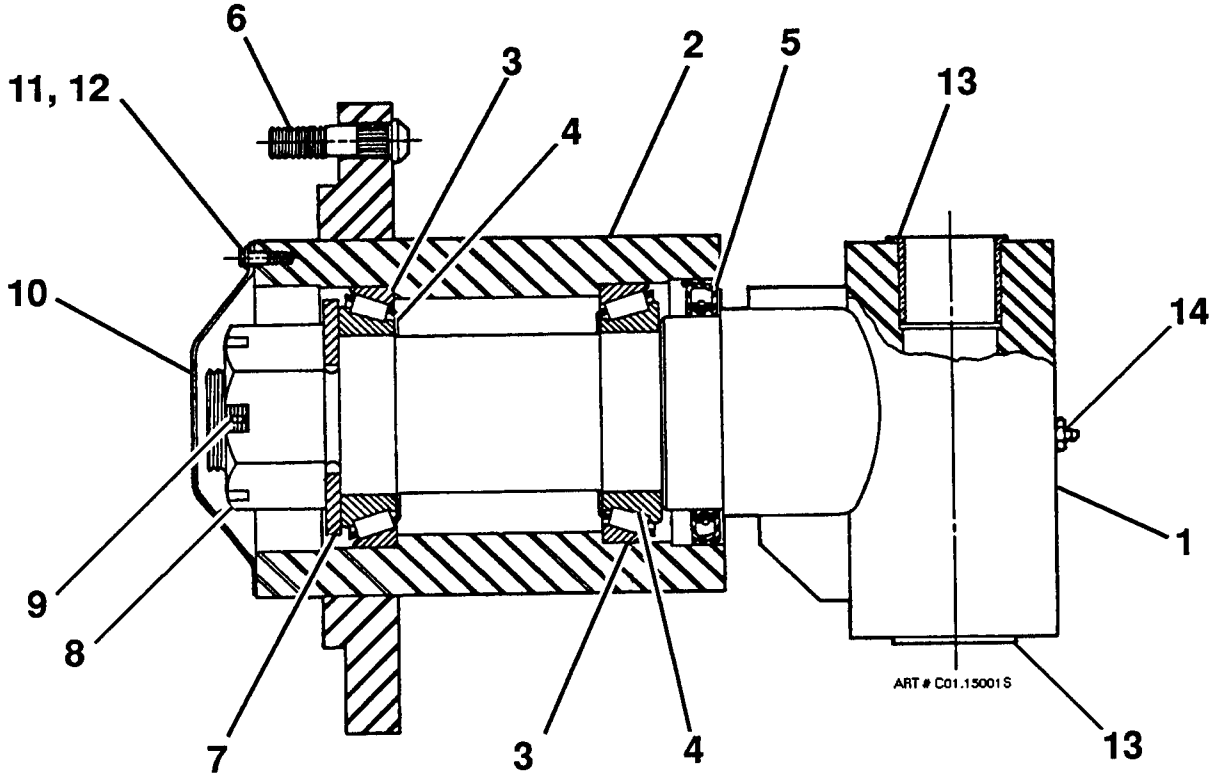
| TITLE | SPINDLE ASSEMBLY, RIGHT HAND | |
|---|---|---|
| **SIMON AERIALS INC.** REV. 12 MAR., 1993 | PART NO. 3502495 | PLATE NO. C01.14 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | 3503089 | | SPINDLE ASSEMBLY (Left) | 1 |
| 1 | 2070711 | | SPINDLE (Left) | 1 |
| 2 | 2022585 | | HUB, SPINDLE | 1 |
| 3 | 08-003400 | | CUP, BEARING (4.437" O.D.) | 2 |
| 4 | 08-003500 | | CONE AND ROLLER, BEARING (2.750" I.D.) | 2 |
| 5 | 01-030700 | | SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.) | 1 |
| 6 | 07-030651 | | STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5) | 10 |
| 7 | 07-062027 | | WASHER, FLAT (1-3/4") | 1 |
| 8 | 07-045227 | | NUT, HEX (Slotted) (1-3/4"-12, Grade 5) | 1 |
| 9 | 07-070511 | | PIN, COTTER (1/8" x 2-1/2" long) | 1 |
| 10 | 2021131 | | PLATE, SPINDLE END COVER | 1 |
| 11 | 07-003001 | | CAP SCREW, HEX HEAD (1/4" - 20 X 1/2", Grade 5) | 3 |
| 12 | 07-065014 | | WASHER, HELICAL LOCK (1/4") | 3 |
| 13 | 08-014000 | | BEARING SLEEVE (1-1/2" I.D., 1-1/2" long) | 2 |
| 14 | 08-051300 | | FITTING, GREASE (1/8", 90°) | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | SPINDLE ASSEMBLY, LEFT HAND | | | |
| PLATE NO. | C01.15 | **SIMON AERIALS INC.** | REV. 12 MAR., 1993 | PART NO. 3503089 |



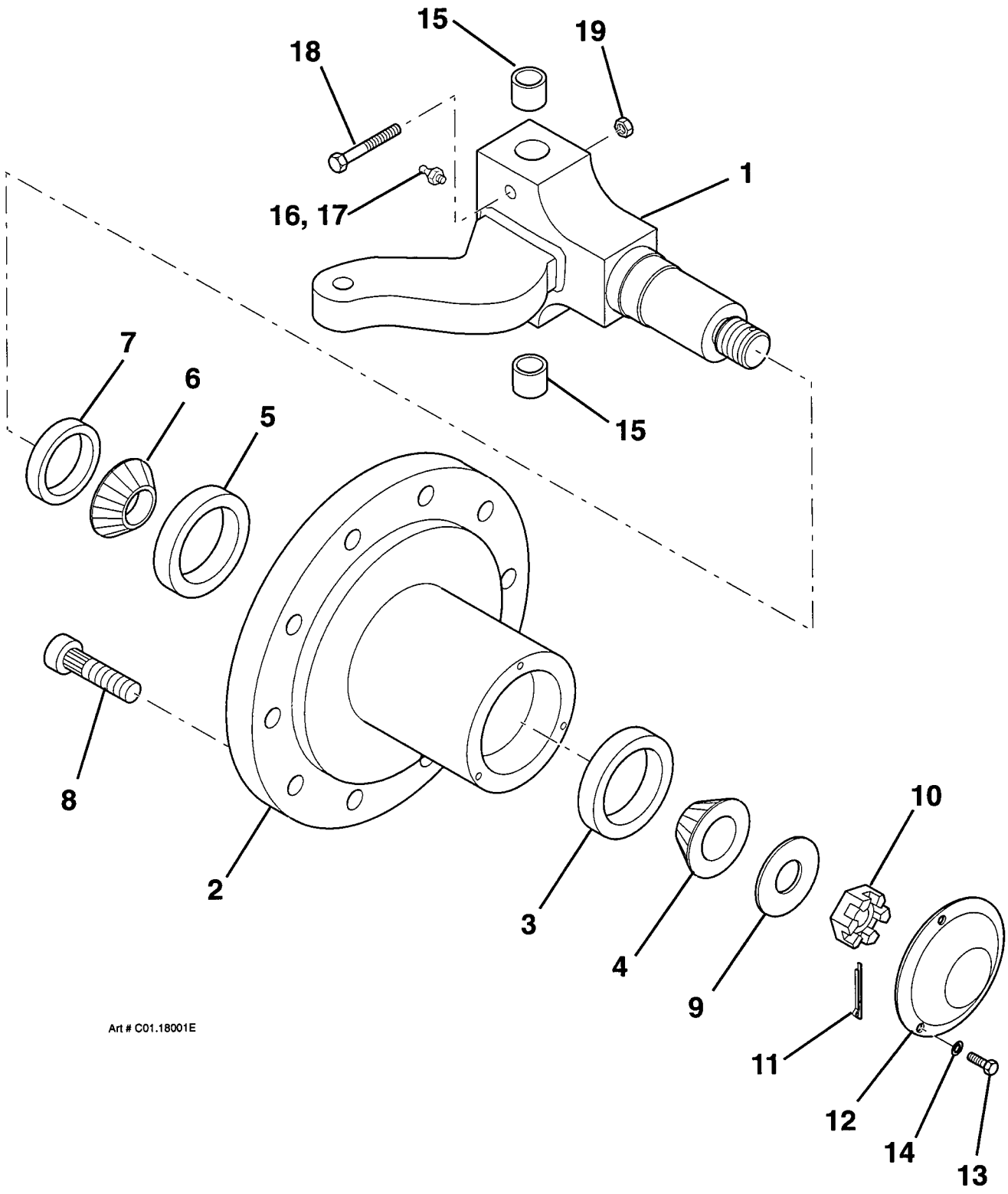

**SECTION "A" - "A"**

| TITLE | SPINDLE ASSEMBLY, LEFT HAND | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 12 MAR., 1993 | | PART NO. 3503089 | PLATE NO. C01.15 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 219 8080 | | SPINDLE | 1 |
| 2 | 219 7900 | | HUB, SPINDLE | 1 |
| 3 | 08-003400 | | CUP, BEARING (Outer) (4.437" O.D.) | 1 |
| 4 | 08-003500 | | CONE AND ROLLER, BEARING (Outer) (2.750" I.D.) | 1 |
| 5 | 08-070500 | | CUP, BEARING (Inner) (5.000" O.D.) | 1 |
| 6 | 08-070600 | | CONE AND ROLLER, BEARING (Inner) (3.000" I.D.) | 1 |
| 7 | 01-217500 | | SEAL, SHAFT OIL (3-3/4" I.D., 5" O.D.) | 1 |
| 8 | 07-030651 | | STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5) | 10 |
| 9 | 07-062027 | | WASHER, FLAT (1-3/4") | 1 |
| 10 | 07-045227 | | NUT, HEX (Slotted) (1-3/4"-12, Grade 5) | 1 |
| 11 | 07-070511 | | PIN, COTTER (1/8" x 2-1/2" long) | 1 |
| 12 | 202 1131 | | PLATE, SPINDLE END COVER | 1 |
| 13 | 07-003001 | | CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5) | 3 |
| 14 | 07-065014 | | WASHER, HELICAL LOCK (1/4") | 3 |
| 15 | 08-014000 | | BEARING, SLEEVE (1-1/2" I.D., 1-3/4" O.D., 1-1/2" long) | 2 |
| 16 | 08-051300 | | FITTING, GREASE (1/8", 90°) | 1 |
| 17 | 08-066300 | | CAP, GREASE FITTING (White plastic) | 1 |
| | | | The following items **are not** included with Spindle Assembly 354 0700: | |
| 15 | 07-003099 | | BOLT, HEX HEAD (1/2"-13 x 4-3/4", Grade 5) | 1 |
| 16 | 07-050018 | | NUT, HEX LOCK (1/2"-13, Grade 5) | 1 |

| | | | | | |
|---|---|---|---|---|---|
| TITLE | SPINDLE ASSEMBLY, RIGHT AND LEFT HAND | | | | |
| PLATE NO. | C01.18 | **SIMON AERIALS INC.** | REV. 22 NOV., 1994 | PART NO. | 354 0700 |



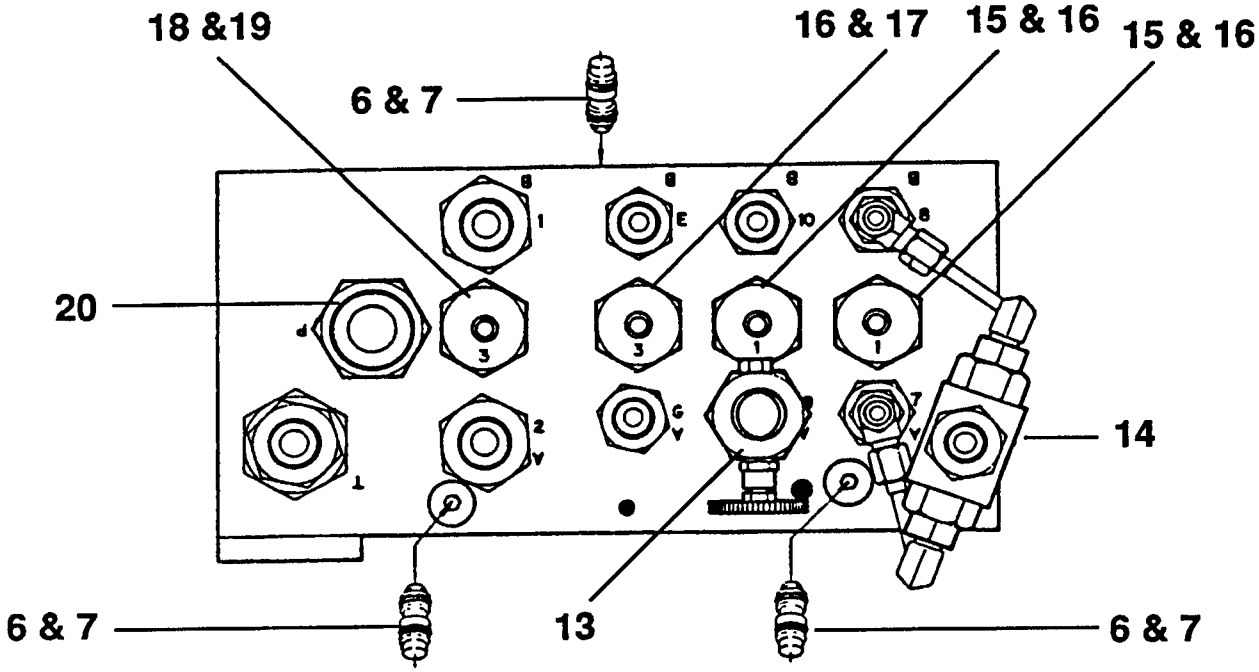

| TITLE | SPINDLE ASSEMBLY, RIGHT AND LEFT HAND | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 22 NOV., 1994 | PART NO. 354 0700 | PLATE NO. C01.18 |

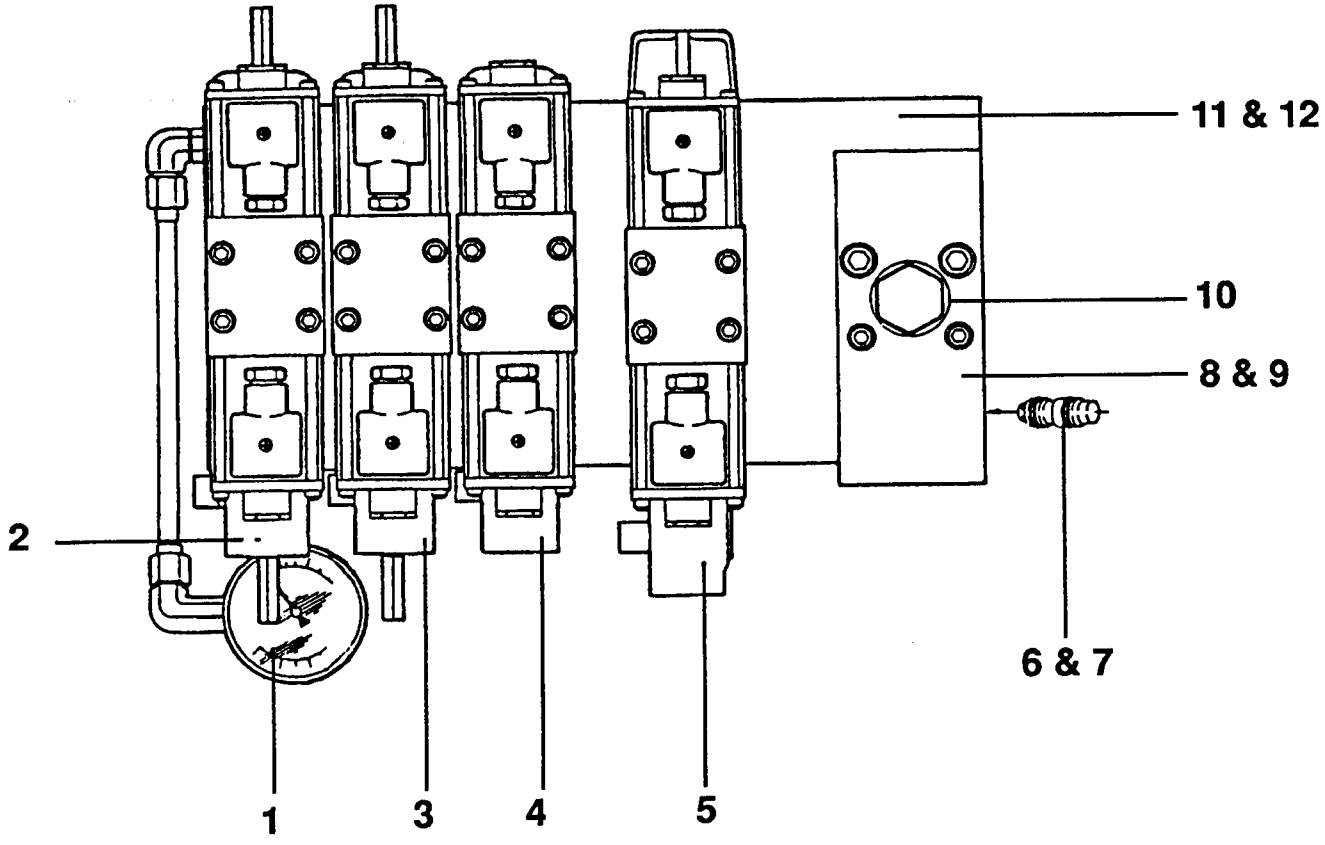
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-021000 | | GAUGE, PRESSURE | 1 |
| 2 | 01-040304 | D13.03 | VALVE, SOLENOID CONTROL (swing) | 1 |
| 3 | 01-040303 | D13.03 | VALVE, SOLENOID CONTROL (hoist) | 1 |
| 4 | 01-040302 | D13.03 | VALVE, SOLENOID CONTROL (telescope) | 1 |
| 5 | 01-040301 | D13.03 | VALVE, SOLENOID CONTROL (drive) | 1 |
| 6 | | | VALVE, SHUTTLE | 4 |
| 7 | 01-040328 | | SEAL KIT FOR SHUTTLE VALVE | 4 |
| 8 | | | BODY, AUXILIARY MANIFOLD | 1 |
| 9 | 01-040327 | | SEAL KIT (for the Auxiliary Manifold Body) | 1 |
| 10 | 01-040309 | | VALVE, FLOW CONTROL (6 gpm) | 1 |
| 11 | | | BODY, MANIFOLD | 1 |
| 12 | 01-040326 | | SEAL KIT (for the Manifold Body) | 1 |
| 13 | 01-032700 | | VALVE, NEEDLE | 1 |
| 14 | 01-001400 | | VALVE, SHUTTLE | 1 |
| 15 | | | COMPENSATOR, CARTRIDGE (Series 10) | 2 |
| 16 | 01-040325 | | SEAL KIT (for the Cartridge Compensator) | 2 |
| 17 | | | COMPENSATOR, CARTRIDGE (Series 10) | 1 |
| 18 | | | COMPENSATOR, CARTRIDGE (Series 12) | 1 |
| 19 | 01-040325 | | SEAL KIT (for the Cartridge Compensator) | 1 |
| 20 | 01-015900 | | VALVE, CHECK | 1 |

TITLE VALVE BANK (DRIVE, TELESCOPE, HOIST AND SWING)

PLATE NO. C02.10 | **SIMON AERIALS INC.** REV. 09/07/90 | PART NO. 01-040300



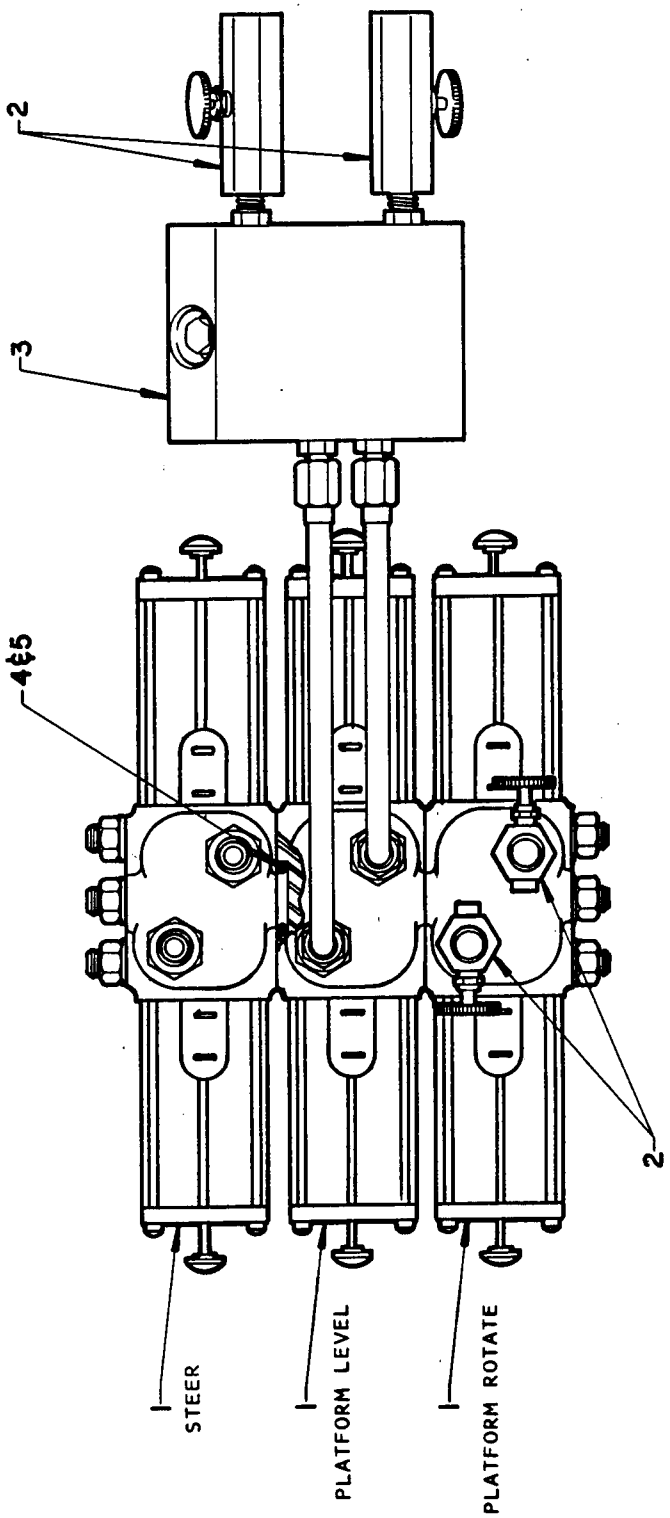




| TITLE | VALVE BANK (DRIVE, TELESCOPE, HOIST AND SWING) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 09/07/90 | PART NO. 01-040300 | PLATE NO. C02.10 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-031700 | D13.1 | SOLENOID CONTROL VALVE, 4-WAY | 3 |
| 2 | 01-000500 | | NEEDLE VALVE | 4 |
| 3 | 01-001900 | | DOUBLE LOCK VALVE | 1 |
| 4 | 01-031703 | | SEAL 1-1/16 O.D. | 2 |
| 5 | 01-031702 | | SEAL 3/4 O.D. | 2 |

| DESCRIPTION | PART NO. |
|---|---|
| VALVE BANK ASSEMBLY (CAB LEVEL & ROTATE, STEER) | CAA-208469-7 |




0385/0385

| DESCRIPTION | PART NO. |
|---|---|
| VALVE BANK ASSEMBLY (CAB LEVEL & ROTATE, STEER) | CAA-208469-7 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-021000 | | GAUGE, PRESSURE | 1 |
| 2 | 01-032700 | | VALVE, NEEDLE [1/2" (13 mm)] | 6 |
| 3 | 01-000500 | | VALVE, NEEDLE [3/8" (9.5 mm)] | 2 |
| 4 | 01-034200 | | "O"-RING [1.051" (26.695 mm) I.D.] | 1 |
| 5 | 01-034100 | | VALVE, CHECK | 1 |
| 6 | 2015109 | | SPACER | 1 |
| 7 | 01-031703 | | "O"-RING [1-1/16" (27 mm) O.D.] | 7 |
| 8 | 01-031702 | | "O"-RING [3/4" (19 mm) O.D.] | 7 |
| 9 | 01-012800 | | VALVE, PRESSURE REDUCING | 1 |
| 10 | 01-031800 | D13.02 | VALVE, SOLENOID CONTROL (4-way, motoring spool) (Low speed drive) | 1 |
| 11 | 01-031800 | D13.02 | VALVE, SOLENOID CONTROL (4-way, motoring spool) (Boom lift) | 1 |
| 12 | 01-031700 | D13.01 | VALVE, SOLENOID CONTROL (4-way, closed spool) (High speed drive) | 1 |
| 13 | 01-031700 | D13.01 | VALVE, SOLENOID CONTROL (4-way, closed spool) (High speed drive) | 1 |
| 14 | 01-031800 | D13.02 | VALVE, SOLENOID CONTROL (4-way, motoring spool) (Boom telescope) | 1 |
| 15 | 01-031800 | D13.02 | VALVE, SOLENOID CONTROL (4-way, motoring spool) (Swing) | 1 |
| 16 | 01-031700 | D13.01 | VALVE, SOLENOID CONTROL (4-way, closed spool) (Steer) | 1 |

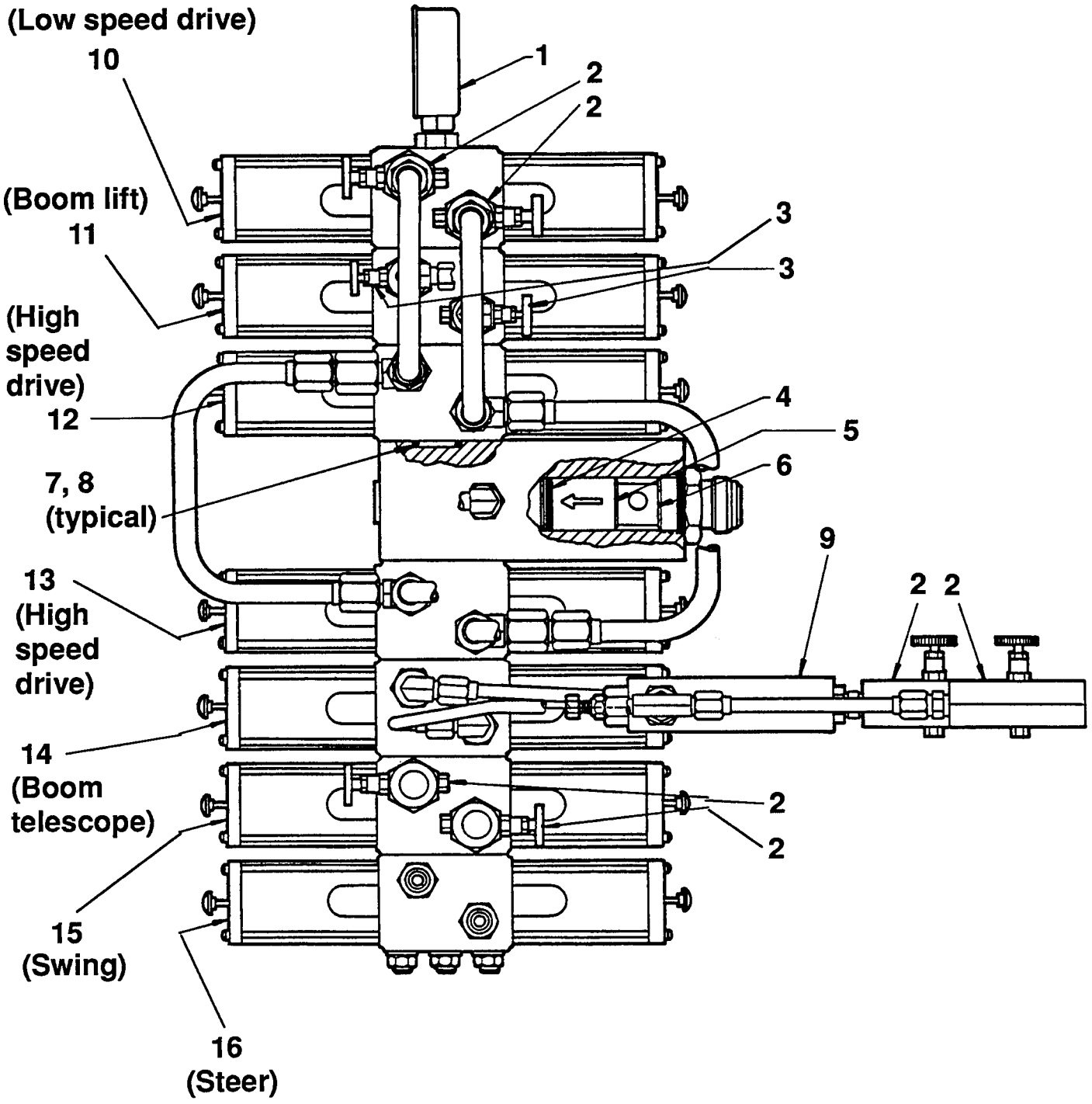
TITLE: VALVE BANK ASSEMBLY . . . 4-WHEEL DRIVE

PLATE NO. C02.15

**SIMON AERIALS INC.**

REV. 10/15/90

PART NO. 2092983

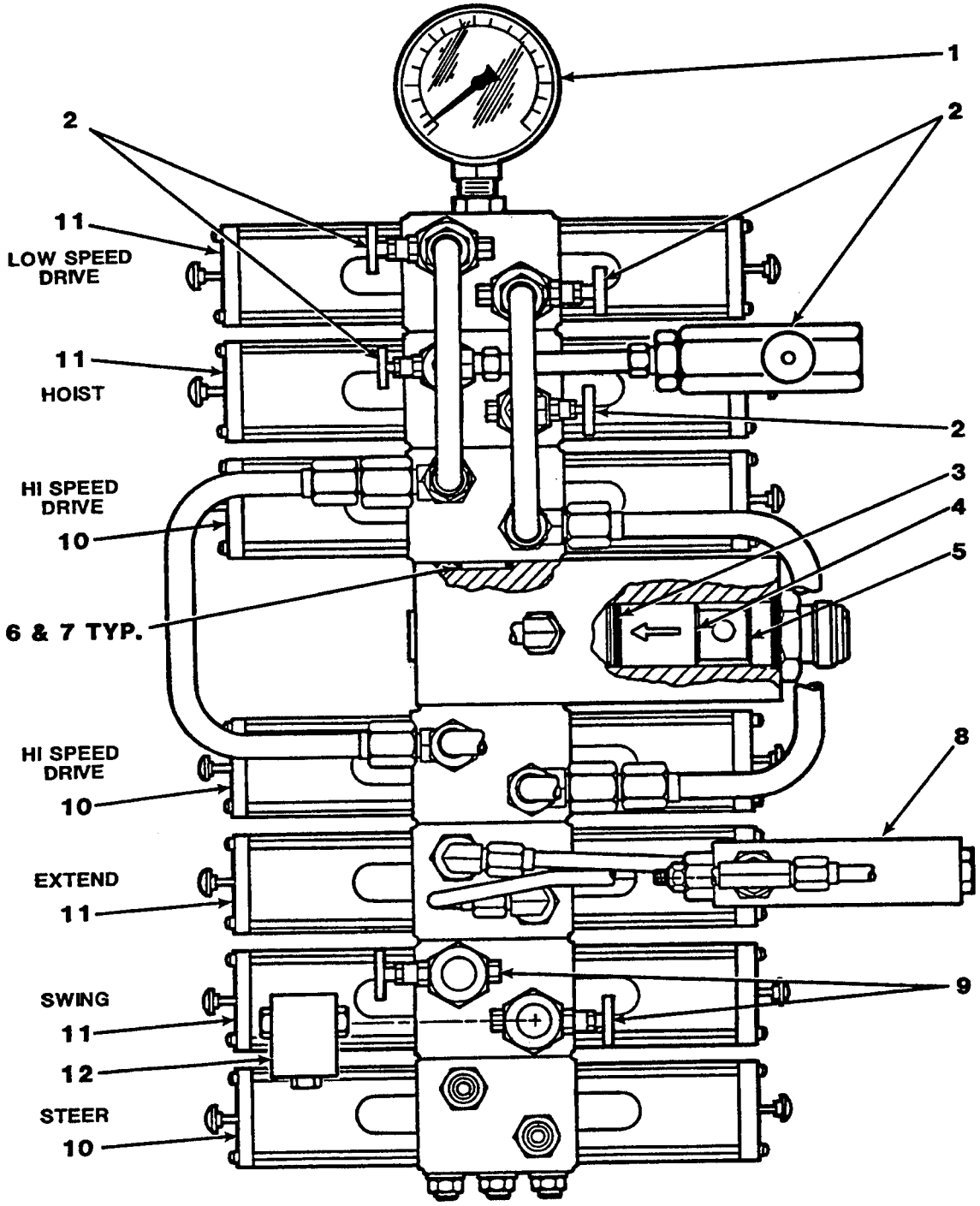



| TITLE | VALVE BANK ASSEMBLY . . . 4-WHEEL DRIVE | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 10/15/90 | | PART NO. 2092983 | PLATE NO. C02.15 |

# PARTS LIST

| ITEM | PART NUMBER | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-021000 | | PRESSURE GAUGE | 1 |
| 2 | 01-019000 | | NEEDLE VALVE, #8 SAE PARTS | 5 |
| 3 | 01-034200 | | 'O' RING | |
| 4 | 01-034100 | | CHECK VALVE | 1 |
| 5 | SBD-201510-9 | | SPACER | 1 |
| 6 | 01-031702 | | 'O' RING, 3/4 INCH O.D. | 7 |
| 7 | 01-031703 | | 'O' RING, 1-1/16 INCHES O.D. | 7 |
| 8 | 01-082400 | | PRESSURE REDUCING VALVE | 1 |
| 9 | 01-018900 | | NEEDLE VALVE, #6 SAE PARTS | 2 |
| 10 | 01-031700 | D13.1 | SOLENOID CONTROL VALVE, 4-WAY | 3 |
| 11 | 01-031800 | D13.2 | SOLENOID CONTROL VALVE, 4-WAY | 4 |
| 12 | 01-013800 | | SHUTTLE VALVE, #6 SAE PARTS | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| VALVE BANK ASSEMBLY | |




1288

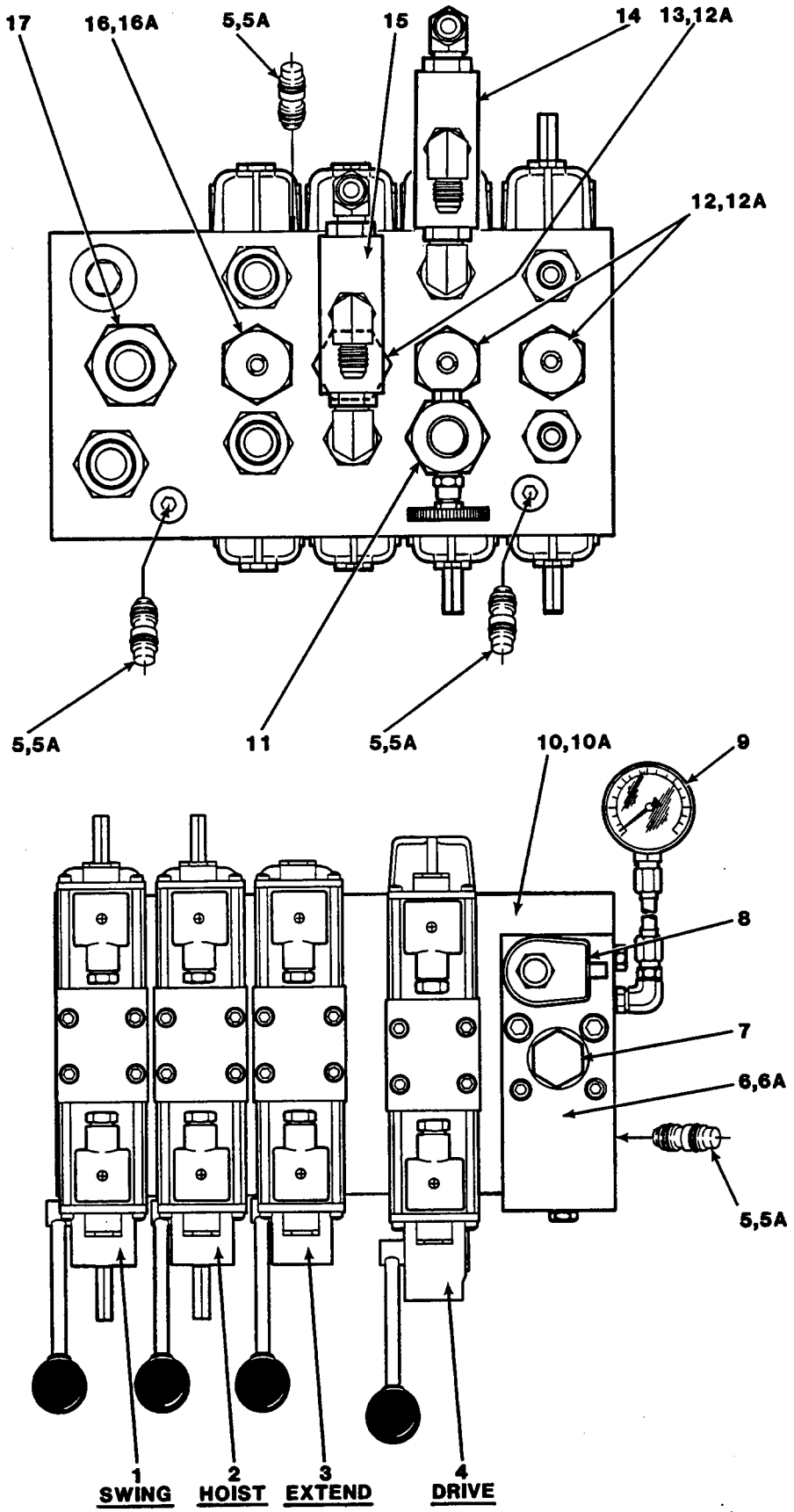
| DESCRIPTION | PART NO. |
|---|---|
| VALVE BANK ASSEMBLY | |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-040304 | D13.3 | SOLENOID CONTROL VALVE, 4-WAY (SWING) | 1 |
| 2 | 01-040303 | D13.3 | SOLENOID CONTROL VALVE, 4-WAY (HOIST) | 1 |
| 3 | 01-040302 | D13.3 | SOLENOID CONTROL VALVE, 4-WAY (EXTEND) | |
| 4 | 01-040301 | D13.3 | SOLENOID CONTROL VALVE, 4-WAY (DRIVE) | 1 |
| 5 | 01-040317 | | SHUTTLE VAVLE | 4 |
| 5A | | | SEAL KIT, SHUTTLE VALVE | 4 |
| 6 | 01-040314 | | AUXILLIARY MANIFOLD BODY | 1 |
| 6A | | | SEAL KIT, AUXILLIARY MANIFOLD | 1 |
| 7 | 01-040309 | | FLOW CONTROL VALVE, 6GPM | 1 |
| 8 | 01-040308 | | CARTRIDGE SOLENOID CONTROL VALVE, 3-WAY | 1 |
| 9 | 01-021000 | | PRESSURE GAUGE | 1 |
| 10 | 01-040315 | | MANIFOLD BODY | 1 |
| 10A | | | SEAL KIT, MANIFOLD | 1 |
| 11 | 01-032700 | | NEEDLE VALVE | 1 |
| 12 | 01-040313 | | CARTRIDGE COMPENSATOR, SERIES 10 | 2 |
| 12A | | | SEAL KIT, CARTRIDGE COMPENSATOR | 3 |
| 13 | | | CARTRIDGE COMPENSATOR, SERIES 10 | 1 |
| 14 | 01-015900 | | PILOT OPERATED CHECK VALVE | 1 |
| 15 | 01-082400 | | PRESSURE REDUCING VALVE | 1 |
| 16 | | | CARTRIDGE COMPENSATOR, SERIES 12 | 1 |
| 16A | | | SEAL KIT, CARTRIDGE COMPENSATOR | 1 |
| 17 | 01-015900 | | CHECK VALVE | 1 |

DESCRIPTION
**VALVE BANK ASSEMBLY (SWING, HOIST, EXTEND, DRIVE)**

PART NO.



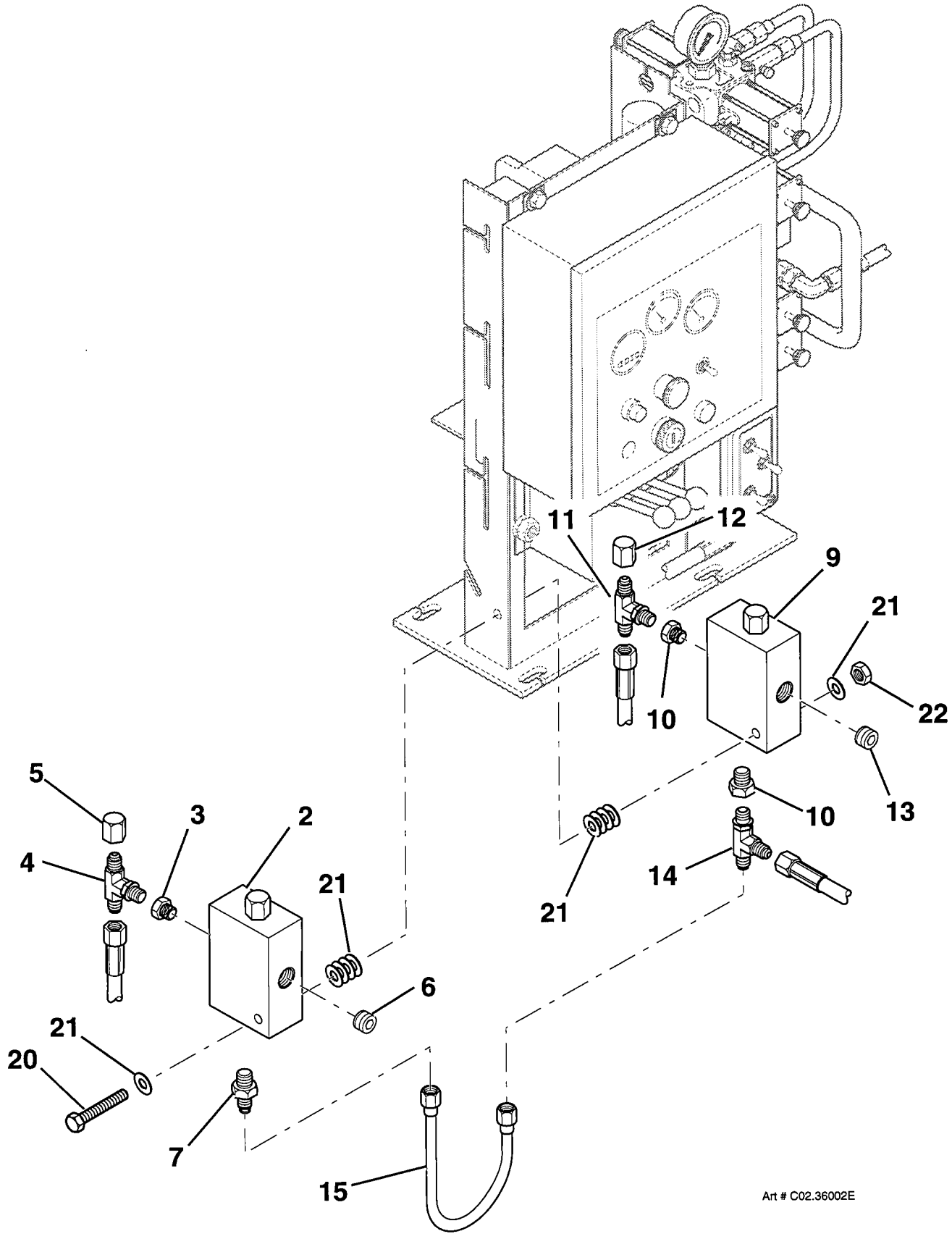

0687/0687

| DESCRIPTION | PART NO. |
|---|---|
| **VALVE BANK ASSEMBLY (SWING, HOIST, EXTEND, DRIVE)** | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 354 4280 | | RELIEF VALVE ASSEMBLY (Left hand) | 1 |
| 2 | 201 5154 | | VALVE, RELIEF (Identified as "**1L24-F10T-25S**") | |
| | | | **Note:** If there is an **additional** number stamped on the valve, and that number **is not "1600"**, please provide the number which does appear. If no stamped number is provided, the valve shipped will be set at **1600** PSI (110 Bar), and may need to be reset upon installation to ensure proper operation. | 1 |
| 3 | 06-090800 | | REDUCER/ EXPANDER (10-6 F5O G5-S) | 1 |
| 4 | 06-050000 | | BRANCH TEE, MALE "O"-RING TO 37° (6 S5OX-S) | 1 |
| 5 | 06-064000 | | CAP, FEMALE (6 FNTX-S) | 1 |
| 6 | 06-095200 | | PLUG, HEX SOCKET "O"-RING (10 HP5ON-S) | 1 |
| 7 | 06-040000 | | ADAPTER, "O"-RING TO 37° (6-10 F5OX-S) | 1 |
| | | | **Note:** Some earlier versions used (1) each 06-090800, REDUCER/ EXPANDER (10-6 F5OG5-S) and 06-039800, ADAPTER, "O"-RING TO 37° (6 F5OX-S) | |
| 8 | 354 4290 | | RELIEF VALVE ASSEMBLY (Right hand) | 1 |
| 9 | 235 1900 | | VALVE, RELIEF (Identified as "**1L24-F10T-25S**") | |
| | | | **Note:** If there is an **additional** number stamped on the valve, and that number **is not "1350"**, please provide the number which does appear. If no stamped number is provided, the valve shipped will be set at **1350** PSI (93 Bar), and may need to be reset upon installation to ensure proper operation. | 1 |
| 10 | 06-090800 | | REDUCER/ EXPANDER (10-6 F5O G5-S) | 2 |
| 11 | 06-050000 | | BRANCH TEE, MALE "O"-RING TO 37° (6 S5OX-S) | 1 |
| 12 | 06-064000 | | CAP, FEMALE (6 FNTX-S) | 1 |
| 13 | 06-095200 | | PLUG, HEX SOCKET "O"-RING (10 HP5ON-S) | 1 |
| 14 | 06-048500 | | RUN TEE, MALE "O"-RING TO 37° (6 R5OX-S) | 1 |
| 15 | 350 8079 | | TUBE ASSEMBLY | 1 |
| 16 | 353 6570 | | HOSE KIT, STEERING RELIEF VALVE | 1 |
| 17 | - - - - - | | HOSE (Right hand Relief Valve to Dump Valve) | 1 |
| 18 | - - - - - | | HOSE (Right hand Relief Valve to Steer Valve #4 Port) | 1 |
| 19 | - - - - - | | HOSE (Left hand Relief Valve to Steer Valve #5 Port) | 1 |
| 20 | 07-003017 | | CAP SCREW, HEX HEAD (1/4"-20 x 4", Grade 5) | 1 |
| 21 | 07-062014 | | WASHER, FLAT (1/4") | 10 |
| 22 | 07-050014 | | NUT, HEX LOCK (1/4"-20) | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | STEERING RELIEF VALVE ASSEMBLY | | | |
| PLATE NO. | C02.36 | **SIMON AERIALS INC.** | REV. 13 SEP., 1995 | PART NO. |

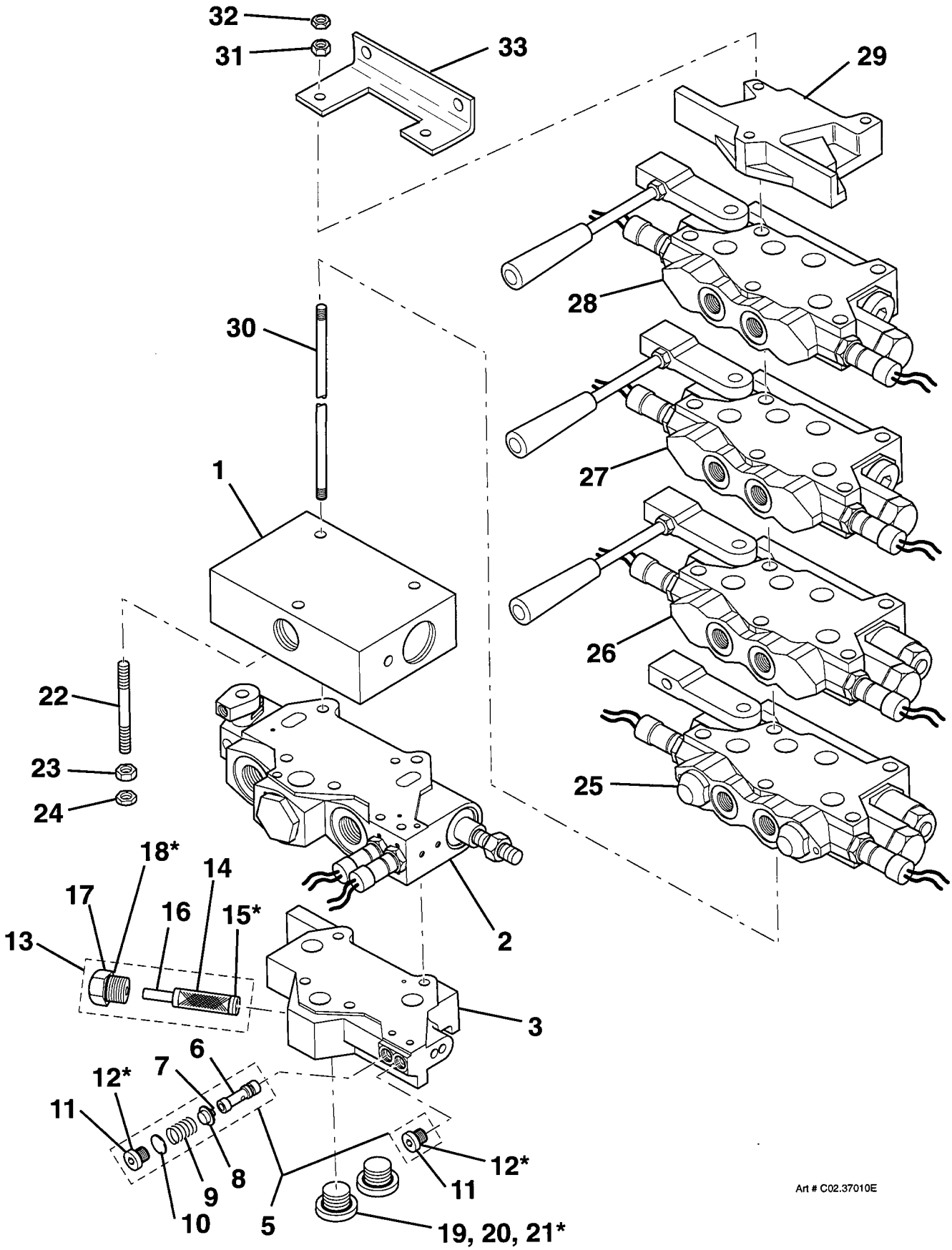



| TITLE | STEERING RELIEF VALVE ASSEMBLY | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 13 SEP., 1995 | | PART NO. | PLATE NO. C02.36 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | GROUND VALVE BANK ASSEMBLY<br>**First type** has **external** solenoid-activated dump valve,<br>**Second type** has **internal** solenoid-activated dump valve. | |
| | | | **Note:** When replacing complete valve bank **assemblies,** first or second type can be used. However, in replacing **components**, please specify if for first or second type. Valve bank components **are not** interchangeable. | |
| | | | For Model MP 40 or MPN 40: | |
| | 01-215300 | | First type (nameplate stamped "VAC 5610-**3001-005**") | 1 |
| | 01-232700 | | Second type (stamped "VAC 5610-**0004-013**") | 1 |
| | | | For Model MP 60: | |
| | 01-207800 | | First type (nameplate stamped "VAC 5610-**3001-004**") | 1 |
| | 01-232200 | | Second type (stamped "VAC 5610-**0004-009**") | 1 |
| | | | For Model MPN 60 or MP 60 Z: | |
| | 01-210500 | | First type (nameplate stamped "VAC 5610-**3001-006**") | 1 |
| | 01-232300 | | Second type (stamped "VAC 5610-**0004-014**") | 1 |
| | | | For Model MP 80: | |
| | 01-210800 | | First type (nameplate stamped "VAC 5610-**3001-001**") | 1 |
| | 01-232400 | | Second type (stamped "VAC 5610-**0004-010**") | 1 |
| | | | For Model MP 95: | |
| | 01-210900 | | First type (nameplate stamped "VAC 5610-**3001-002**") | 1 |
| | 01-232500 | | Second type (stamped "VAC 5610-**0004-011**") | 1 |
| | | | For Model MP 110: | |
| | 01-211000 | | First type (nameplate stamped "VAC 5610-**3001-003**") | 1 |
| | 01-232600 | | Second type (stamped "VAC 5610-**0004-012**") | 1 |
| 1 | | | MANIFOLD, ADAPTER | 1 |
| 2 | See plate . . | D13.06 | VALVE SEGMENT, DRIVE CONTROL | 1 |
| 3 | | | INLET, LOAD SENSING | 1 |
| | 01-211017 | | for **first type** valve bank assembly | |
| | Call Simon | | for **second type** valve bank assembly | |
| 4 | | | SEAL KIT, INLET (includes all items marked with asterisk*) | 1 |
| | 01-211020 | | for **first type** valve bank assembly | |
| | Call Simon | | for **second type** valve bank assembly | |

| | | | | |
|---|---|---|---|---|
| **TITLE** | GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, TYPE 2) | | | |
| **PLATE NO.** | C02.37 | **SIMON AERIALS INC.** | REV. 23 MAR., 1995 | **PART NO.** |




TITLE GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, TYPE 2)

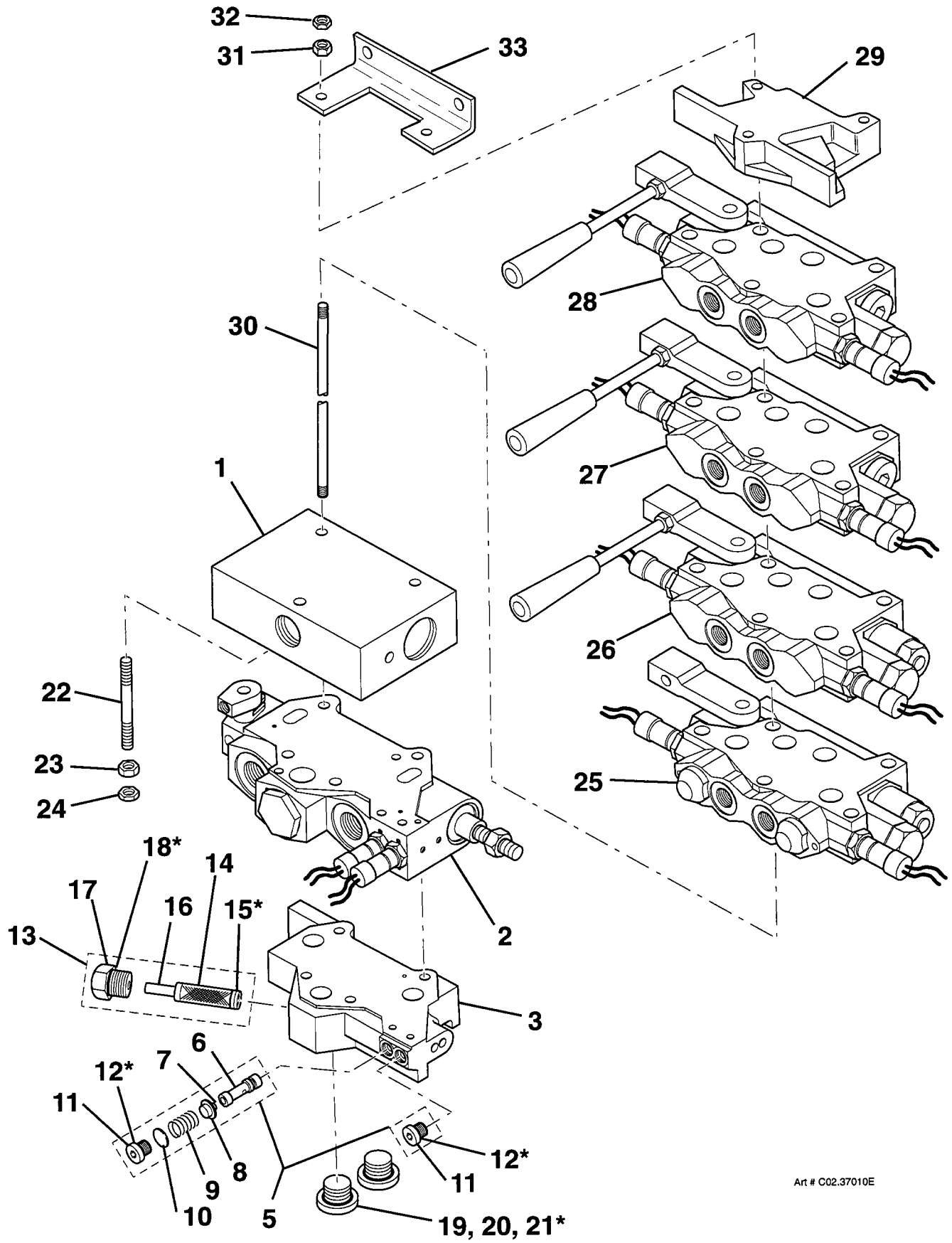
| SIMON AERIALS INC. | REV. 23 MAR., 1995 | PART NO. | PLATE NO. C02.37 |
|---|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 5 | | | PILOT REDUCING KIT | 1 |
| | 01-211018 | | for **first type** valve bank assembly | |
| | Call Simon | | for **second type** valve bank assembly | |
| 6 | | | SPOOL, PILOT REDUCING | 1 |
| 7 | | | BALL | 1 |
| 8 | | | GUIDE, SPRING | 1 |
| 9 | | | SPRING | 1 |
| 10 | | | SHIM | 1 |
| 11 | | | PLUG, SOCKET | 2 |
| 12 | | * | "O"-RING | 2 |
| 13 | | | INLET FILTER KIT | 1 |
| | 01-211002 | | for **first type** valve bank assembly | |
| | Call Simon | | for **second type** valve bank assembly | |
| 14 | | | FILTER | 1 |
| 15 | | * | "O"-RING | 1 |
| 16 | | | TUBE, FILTER EXTENSION | 1 |
| 17 | | | PLUG, SOCKET | 1 |
| 18 | | * | "O"-RING | 1 |
| 19 | | | PLUG, SAE PORT | 2 |
| | 01-211019 | | for **first type** valve bank assembly | |
| | Call Simon | | for **second type** valve bank assembly | |
| 20 | | | PLUG | 1 |
| 21 | | * | "O"-RING | 1 |
| 22 | | | ROD, TIE | 4 |
| 23 | | | NUT, HEX | 4 |
| 24 | | | NUT, HEX JAM | 4 |
| 25 | See plate . . | D13.08 | VALVE SEGMENT, STEER CONTROL | 1 |
| 26 | See plate . . | D13.07 | VALVE SEGMENT, BOOM TELESCOPE CONTROL | 1 |
| 27 | See plate . . | D13.09 | VALVE SEGMENT, BOOM RAISE/ LOWER CONTROL | 1 |
| 28 | See plate . . | D13.10 | VALVE SEGMENT, SWING CONTROL | 1 |
| 29 | | | PLATE, STACKING | 1 |
| | 01-211028 | | for **first type** valve bank assembly | |
| | Call Simon | | for **second type** valve bank assembly | |
| 30 | | | ROD, TIE | 3 |
| 31 | | | NUT, HEX | 3 |
| 32 | | | NUT, HEX JAM | 3 |
| 33 | Call Simon | | BRACKET, VALVE BANK MOUNTING | 1 |

**TITLE** GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, TYPE 2)

**PLATE NO.** C02.37 | **SIMON AERIALS INC.** REV. 23 MAR., 1995 | **PART NO.**



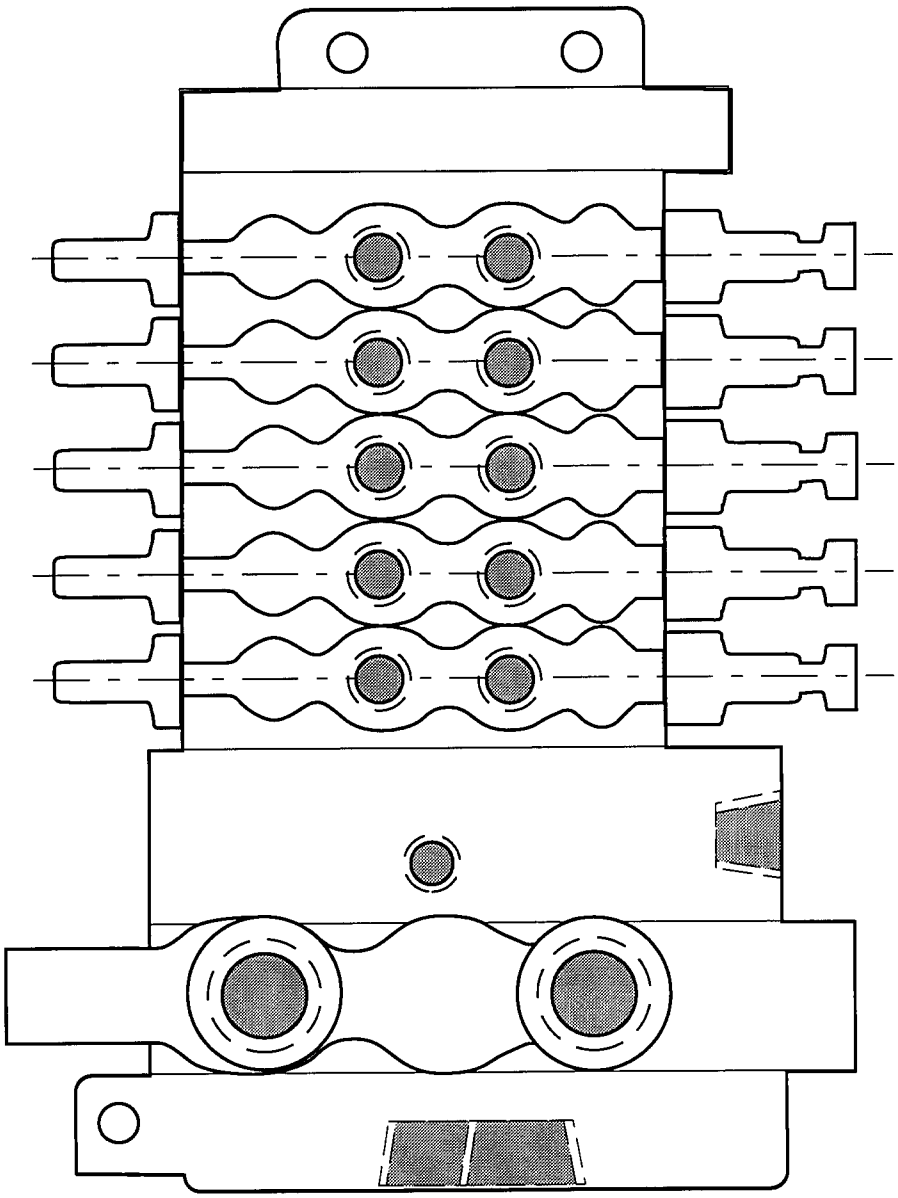

| | | | |
|---|---|---|---|
| TITLE | GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, TYPE 2) | | |
| **SIMON AERIALS INC.** | REV. 23 MAR., 1995 | PART NO. | PLATE NO. C02.37 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | The following valves, tubes,fittings and miscellaneous items may be included as part of the Valve Assembly: | |
| 34 | 01-018200 | | VALVE, CHECK | 1 |
| 35 | 01-068200 | | VALVE, CHECK (Pilot operated) | 1 |
| 36 | 01-019000 | | VALVE, FLOW CONTROL (Needle valve) (#8 SAE) | 2 |
| 37 | 01-021000 | | GAUGE, HYDRAULIC PRESSURE (0 to 4,000 PSI) | 1 |
| 38 | 01-036700 | | "O"-RING (.924" I.D.) | 1 |
| 39 | 06-039800 | | ADAPTER, "O"-RING TO 37° (6 F50X-S) | 1 |
| 40 | 06-043000 | | ADAPTER (LONG), "O"-RING TO 37° (6 FF50X-S) | 1 |
| 41 | 06-039900 | | ADAPTER, "O"-RING TO 37° (6-8 F50X-S) | 4 |
| 42 | 06-040000 | | ADAPTER, "O"-RING TO 37° (6-10 F50X-S) | 1 |
| 43 | 06-040100 | | ADAPTER, "O"-RING TO 37° (8 F50X-S) | 5 |
| 44 | 06-207800 | | ADAPTER, SWIVEL NUT (8 F65X-S) | 1 |
| 45 | 06-040800 | | ADAPTER, "O"-RING TO 37° (12 F50X-S) | 1 |
| 46 | 06-043300 | | ADAPTER (LONG), "O"-RING TO 37° (12 FF50X-S) | 2 |
| 47 | 06-041400 | | ADAPTER, "O"-RING TO 37° (16 F50X-S) | 1 |
| 48 | 06-086600 | | ADAPTER, "O"-RING TO FEMALE NPT (6-1/4 F50G-S) | 1 |
| 49 | 06-090600 | | REDUCER/ EXPANDER (8-6 F50 G5-S) | 1 |
| 50 | 06-091100 | | REDUCER/ EXPANDER (12-8 F50 G5-S) | 1 |
| 51 | 06-091900 | | REDUCER/ EXPANDER (16-12 F50 G5-S) | 1 |
| 52 | 06-053000 | | 45° ELBOW, SWIVEL NUT (6 V6X-S) | 2 |
| 53 | 06-053100 | | 45° ELBOW, SWIVEL NUT (8 V6X-S) | 2 |
| 54 | 06-047000 | | 45° ELBOW, STRAIGHT THREAD (6 V50X-S) | 2 |
| 55 | 06-047100 | | 45° ELBOW, STRAIGHT THREAD (8 V50X-S) | 2 |
| 56 | 06-051500 | | 90° ELBOW, SWIVEL NUT (6 C6X-S) | 5 |
| 57 | 06-044600 | | 90° ELBOW, STRAIGHT THREAD (6 C50X-S) | 1 |
| 58 | 06-044700 | | 90° ELBOW, STRAIGHT THREAD (6-8 C50X-S) | 1 |
| 59 | 06-044800 | | 90° ELBOW, STRAIGHT THREAD (8 C50X-S) | 1 |
| 60 | 06-045600 | | 90° ELBOW, STRAIGHT THREAD (12-16 C50X-S) | 1 |
| 61 | 06-051600 | | 90° ELBOW, SWIVEL NUT (8 C6X-S) | 3 |
| 62 | 06-051800 | | 90° ELBOW, SWIVEL NUT (12 C6X-S) | 3 |
| 63 | 06-052000 | | 90° ELBOW, SWIVEL NUT (16 C6X-S) | 1 |
| 64 | 06-097300 | | 90° ADAPTER, BENT STEM (63 UC-08-08) | 1 |
| 65 | 06-054500 | | RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S) | 2 |
| 66 | 06-048600 | | RUN TEE, 37° MALE "O"-RING (8 R50X-S) | 1 |
| 67 | 06-056000 | | BRANCH TEE, 37° FEMALE SWIVEL NUT (6 S6X-S) | 1 |
| 68 | 06-057600 | | NUT, TUBE (8 BTX-S) | 1 |
| 69 | 06-060300 | | REDUCER, TUBE END (8-6 TRTX-S) | 1 |
| 70 | 219 0140 | | TUBE ASSEMBLY (1/2" tubing, straight, 2-1/4" [57 mm] long) | 1 |
| 71 | 219 0160 | | TUBE ASSEMBLY (3/8", "J" shape, 8-7/16" [214 mm] long) | 1 |
| 72 | 350 7665 | | TUBE ASSEMBLY (3/4" tubing, straight) | 1 |
| 73 | 353 4140 | | TUBE ASSEMBLY (3/8" tubing, "L" shape) | 1 |

| | |
|---|---|
| TITLE | GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, TYPE 2) |

| PLATE NO. | C02.37 | SIMON AERIALS INC. | REV. 23 MAR., 1995 | PART NO. |
|---|---|---|---|---|



C02.20202E

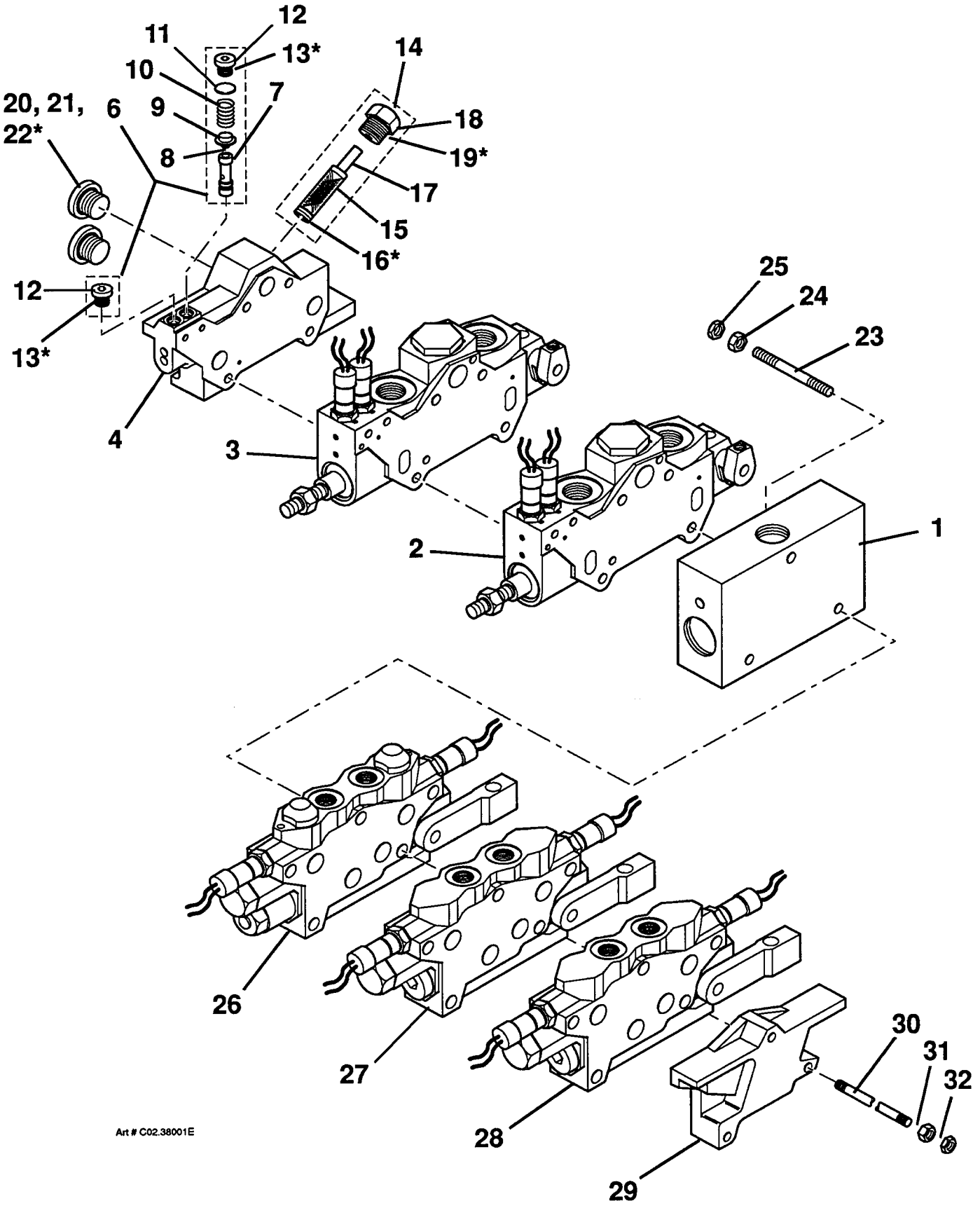
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|---|---|---|---|
| TITLE | GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, TYPE 2) | | |
| **SIMON AERIALS INC.** | REV. 23 MAR., 1995 | PART NO. | PLATE NO. C02.37 |

# PARTS LIST

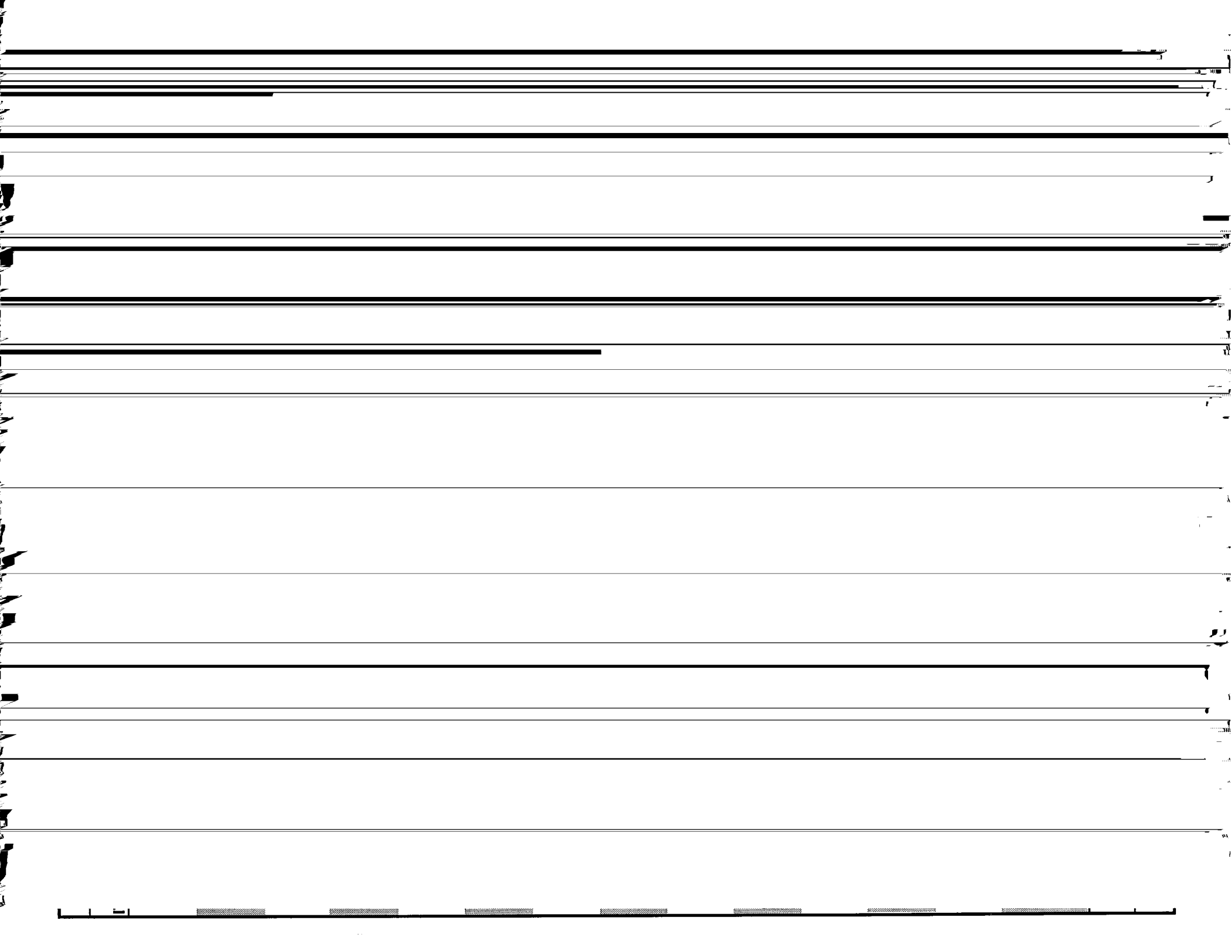
| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | 01-216400 | | GROUND VALVE BANK ASSEMBLY, For Model MP 95 (Special application) | 1 |
| 1 | | | MANIFOLD, ADAPTER | 1 |
| 2 | See plate . . | D13.11 | VALVE SEGMENT, BOOM TELESCOPE CONTROL | 1 |
| 3 | See plate . . | D13.06 | VALVE SEGMENT, DRIVE CONTROL | 1 |
| 4 | 01-211017 | | INLET, LOAD SENSING | 1 |
| 5 | 01-211020 | | SEAL KIT, INLET (includes all items marked with asterisk*) | 1 |
| 6 | 01-211018 | | PILOT REDUCING KIT | 1 |
| 7 | | | SPOOL, PILOT REDUCING | 1 |
| 8 | | | BALL | 1 |
| 9 | | | GUIDE, SPRING | 1 |
| 10 | | | SPRING | 1 |
| 11 | | | SHIM | 1 |
| 12 | | | PLUG, SOCKET | 2 |
| 13 | | * | "O"-RING | 2 |
| 14 | 01-211002 | | INLET FILTER KIT | 1 |
| 15 | | | FILTER | 1 |
| 16 | | * | "O"-RING | 1 |
| 17 | | | TUBE, FILTER EXTENSION | 1 |
| 18 | | | PLUG, SOCKET | 1 |
| 19 | | * | "O"-RING | 1 |
| 20 | 01-211019 | | PLUG, SAE PORT | 2 |
| 21 | | | PLUG | 1 |
| 22 | | * | "O"-RING | 1 |
| 23 | | | ROD, TIE | 4 |
| 24 | | | NUT, HEX | 4 |
| 25 | | | NUT, HEX JAM | 4 |
| 26 | See plate . . | D13.08 | VALVE SEGMENT, STEER CONTROL | 1 |
| 27 | See plate . . | D13.09 | VALVE SEGMENT, BOOM RAISE/ LOWER CONTROL | 1 |
| 28 | See plate . . | D13.10 | VALVE SEGMENT, SWING CONTROL | 1 |
| 29 | 01-211028 | | PLATE, STACKING | 1 |
| 30 | | | ROD, TIE | 3 |
| 31 | | | NUT, HEX | 3 |
| 32 | | | NUT, HEX JAM | 3 |

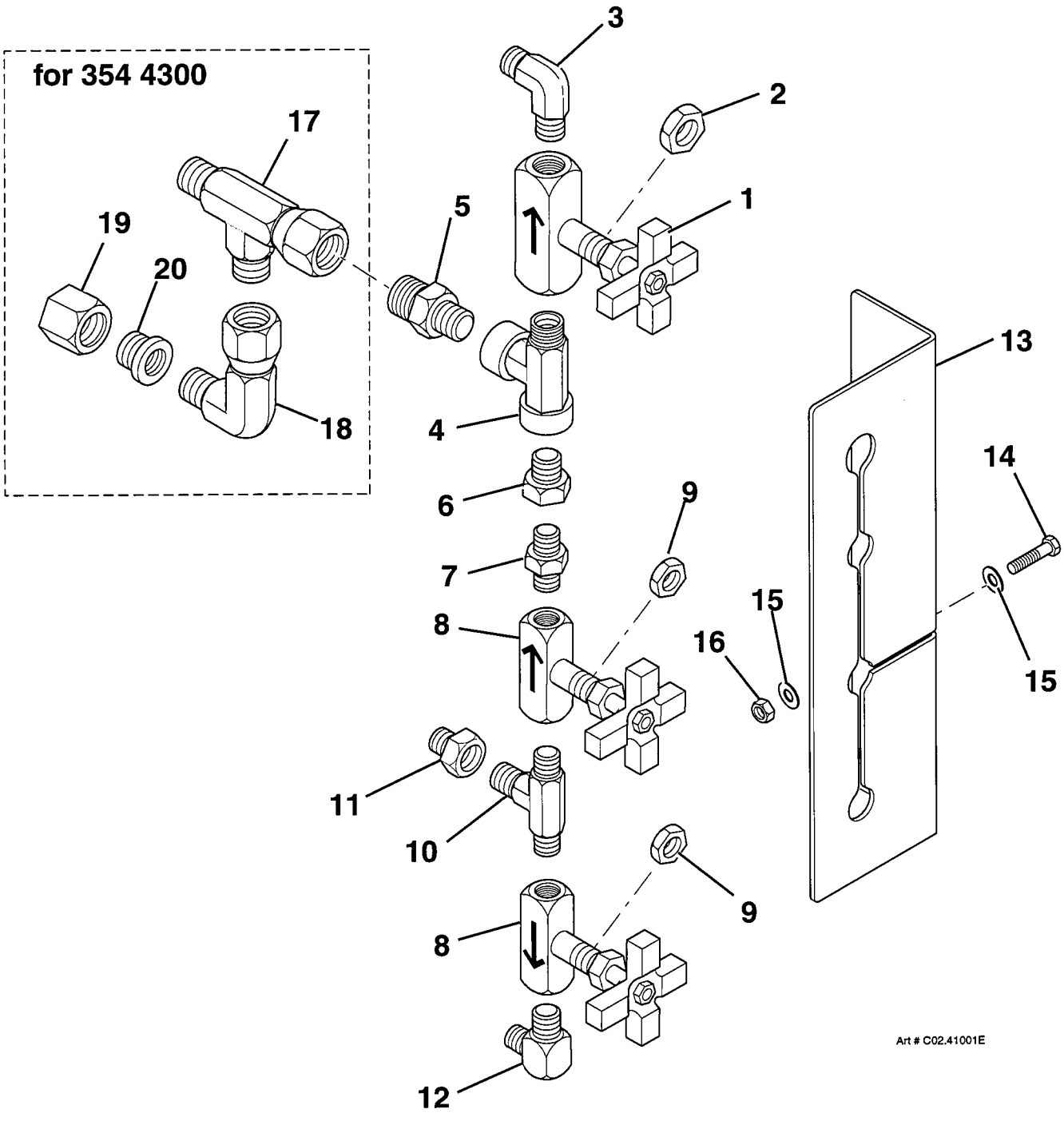
TITLE GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, SPECIAL)

PLATE NO. C02.38 | **SIMON AERIALS INC.** REV. 05 JUN., 1992 | PART NO.




| TITLE | GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, SPECIALSPECIAL) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 05 JUN., 1992 | PART NO. | PLATE NO. C02.38 |





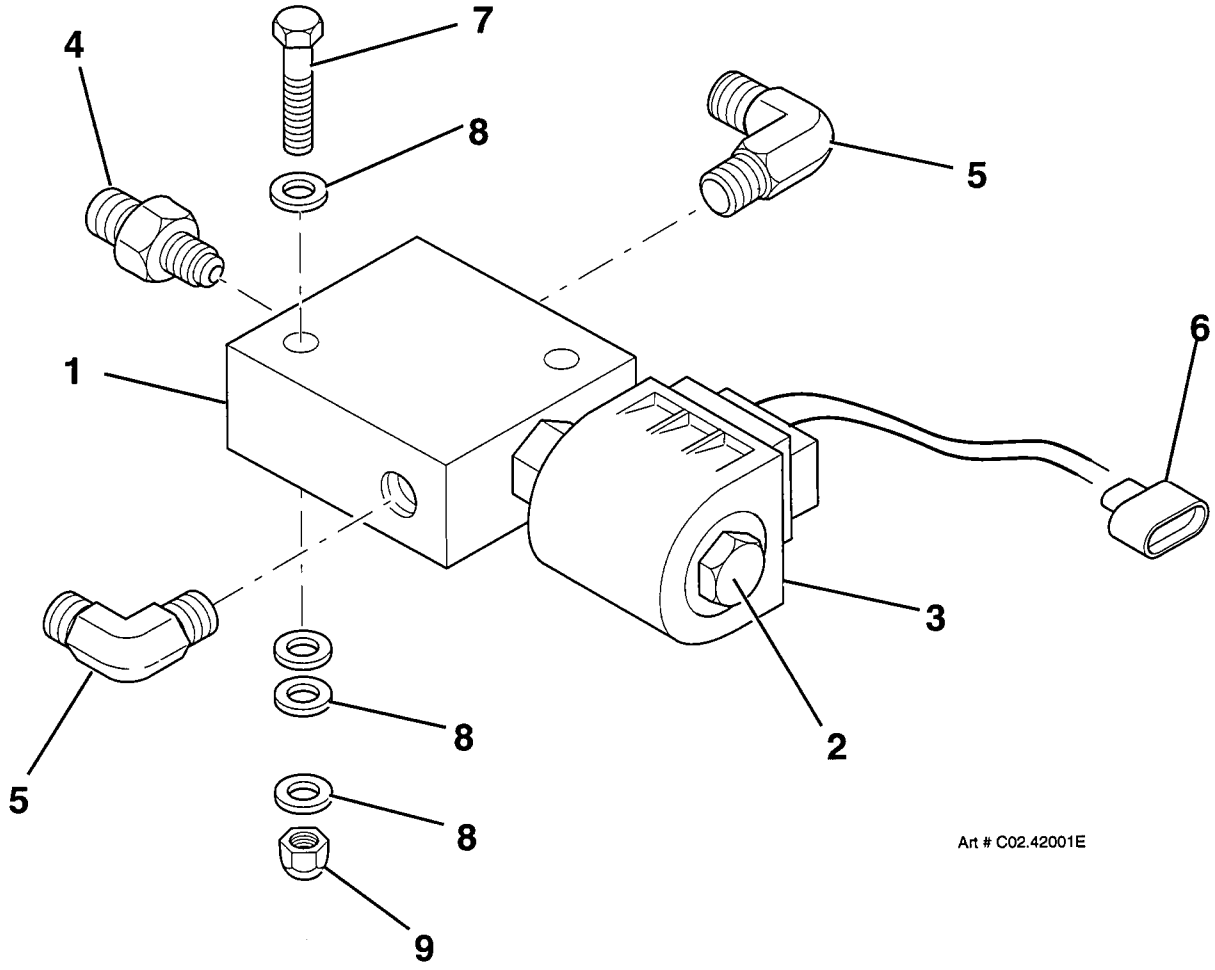

| TITLE | MANUAL DESCENT VALVE ASSEMBLY | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | NEW 05 SEP., 1995 | PART NO. | PLATE NO. C02.41 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-037100 | | VALVE, 3 WAY (Solenoid operated. With 12 Volt Coil.) | 1 |
| 2 | 01-037101 | | SEAL KIT, 3 WAY VALVE | 1 |
| 3 | | | COIL, SOLENOID | 1 |
| | 01-037198 | | 12 Volt DC | |
| | 01-037199 | | 24 Volt DC | |
| 4 | 06-000700 | | CONNECTOR, MALE 37° TO NPT (6 FTX-S) | 1 |
| 5 | 06-003800 | | 90° ELBOW, MALE 37° TO NPT (6 CTX-S) | 2 |
| 6 | 03-092200 | | COUPLING, INSULATED (Male, blue, #14-16 AWG) | 2 |
| 7 | 07-003010 | | CAP SCREW, HEX HEAD (1/4"-20 x 2-1/4", Grade 5) | 2 |
| 8 | 07-062014 | | WASHER, FLAT (1/4") | 8 |
| 9 | 07-050014 | | NUT, STOP (1/4"-20, Grade 5) | 2 |

TITLE TWO-SPEED VALVE ASSEMBLY (MP SERIES, WITH TWO WHEEL DRIVE)

PLATE NO. C02.42 | **SIMON AERIALS INC.** NEW 06 SEP., 1995 | PART NO. 354 4170




TITLE TWO-SPEED VALVE ASSEMBLY (MP SERIES, WITH TWO WHEEL DRIVE)

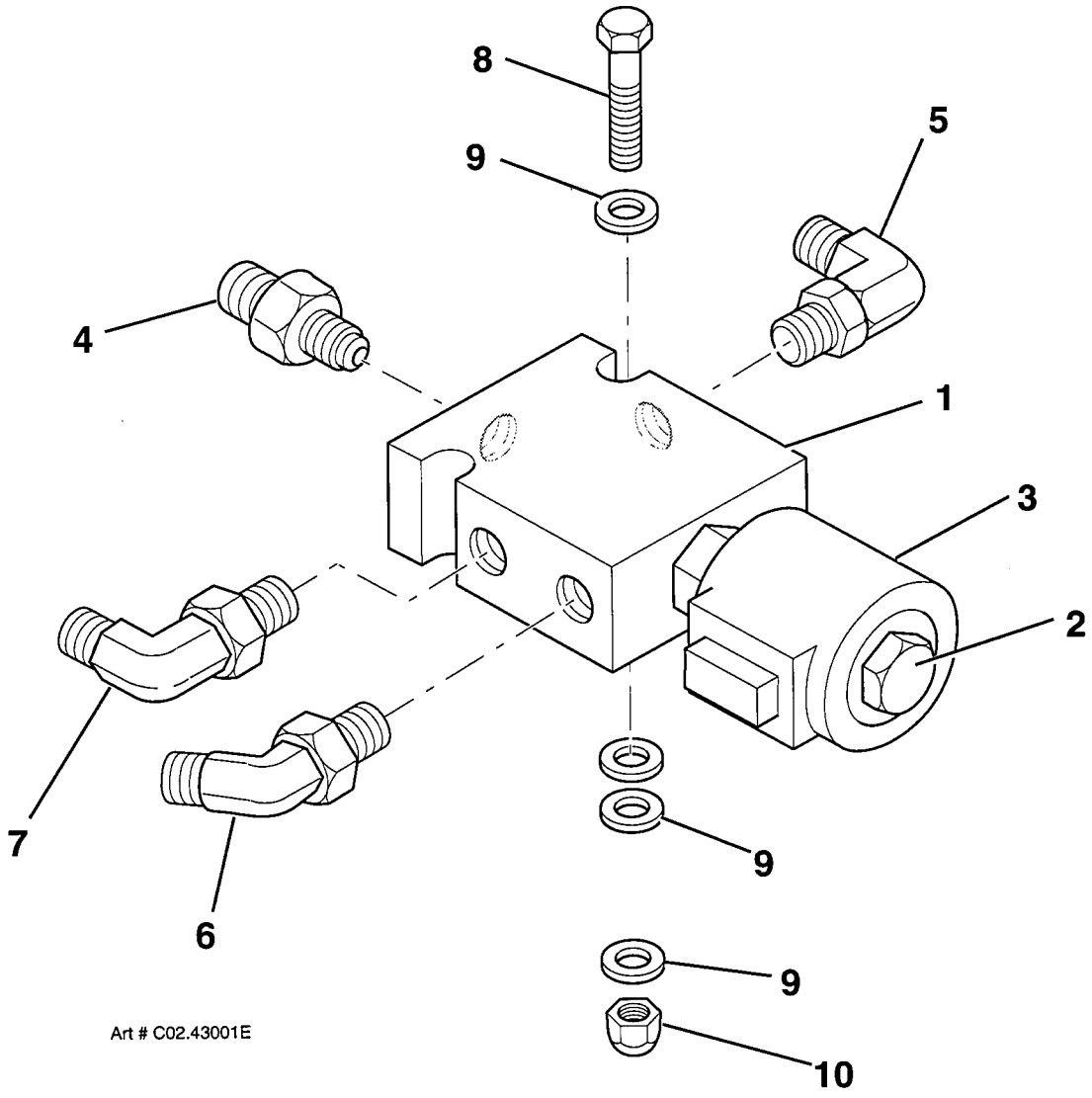
| SIMON AERIALS INC. | NEW 06 SEP., 1995 | PART NO. 354 4170 | PLATE NO. C02.42 |
|---|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-230400 | | VALVE, 4 WAY (2 position, solenoid operated. With 12 Volt Coil.) | 1 |
| 2 | Call Simon | | SEAL KIT, 4 WAY VALVE | 1 |
| 3 | | | COIL, SOLENOID | 1 |
| | Call Simon | | 12 Volt DC | |
| | Call Simon | | 24 Volt DC | |
| 4 | 06-039800 | | ADAPTER, "O"-RING TO 37° (6 F5OX-S) | 1 |
| 5 | 06-044600 | | 90° ELBOW, "O"-RING TO 37° (6 C5OX-S) | 1 |
| 6 | 06-047000 | | 45° ELBOW, "O"-RING TO 37° (6 V5OX-S) | 1 |
| 7 | 06-044600 | | 90° ELBOW, "O"-RING TO 37° (6 C5OX-S) **or . . .** | |
| | 06-047000 | | 45° ELBOW, "O"-RING TO 37° (6 V5OX-S) | 1 |
| 8 | 07-003009 | | CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5) | 2 |
| 9 | 07-062014 | | WASHER, FLAT (1/4") | 8 |
| 10 | 07-050014 | | NUT, STOP (1/4"-20, Grade 5) | 2 |

TITLE TWO-SPEED VALVE ASSEMBLY (MP SERIES, WITH FOUR WHEEL DRIVE)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| C02.43 | **SIMON AERIALS INC.** | NEW 06 SEP., 1995 | |




Art # C02.43001E

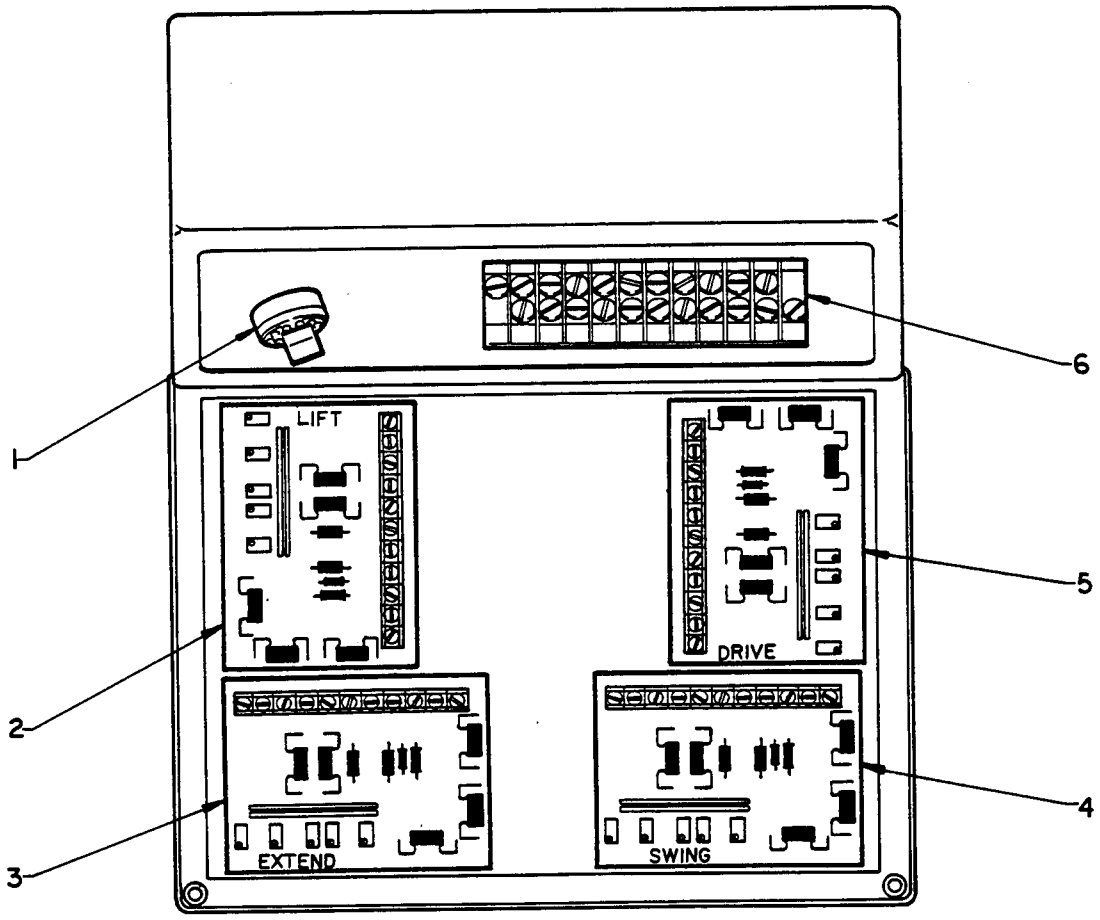
TITLE TWO-SPEED VALVE ASSEMBLY (MP SERIES, WITH FOUR WHEEL DRIVE)

| SIMON AERIALS INC. | NEW 06 SEP., 1995 | PART NO. | PLATE NO. C02.43 |
|---|---|---|---|

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-403100 | | POTENTIOMETER | 1 |
| 2 | 03-027201 | | CONTROL CARD, LIFT | 1 |
| 3 | 03-027201 | | CONTROL CARD, EXTEND | 1 |
| 4 | 03-027201 | | CONTROL CARD, SWING | 1 |
| 5 | 03-027201 | | CONTROL CARD, VEHICLE DRIVE | 1 |
| 6 | 03-068000 | | TERMINAL STRIP | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| GROUND CONTROL BOX (PROPORTIONAL CONTROLS) | CAA-208493-4 |



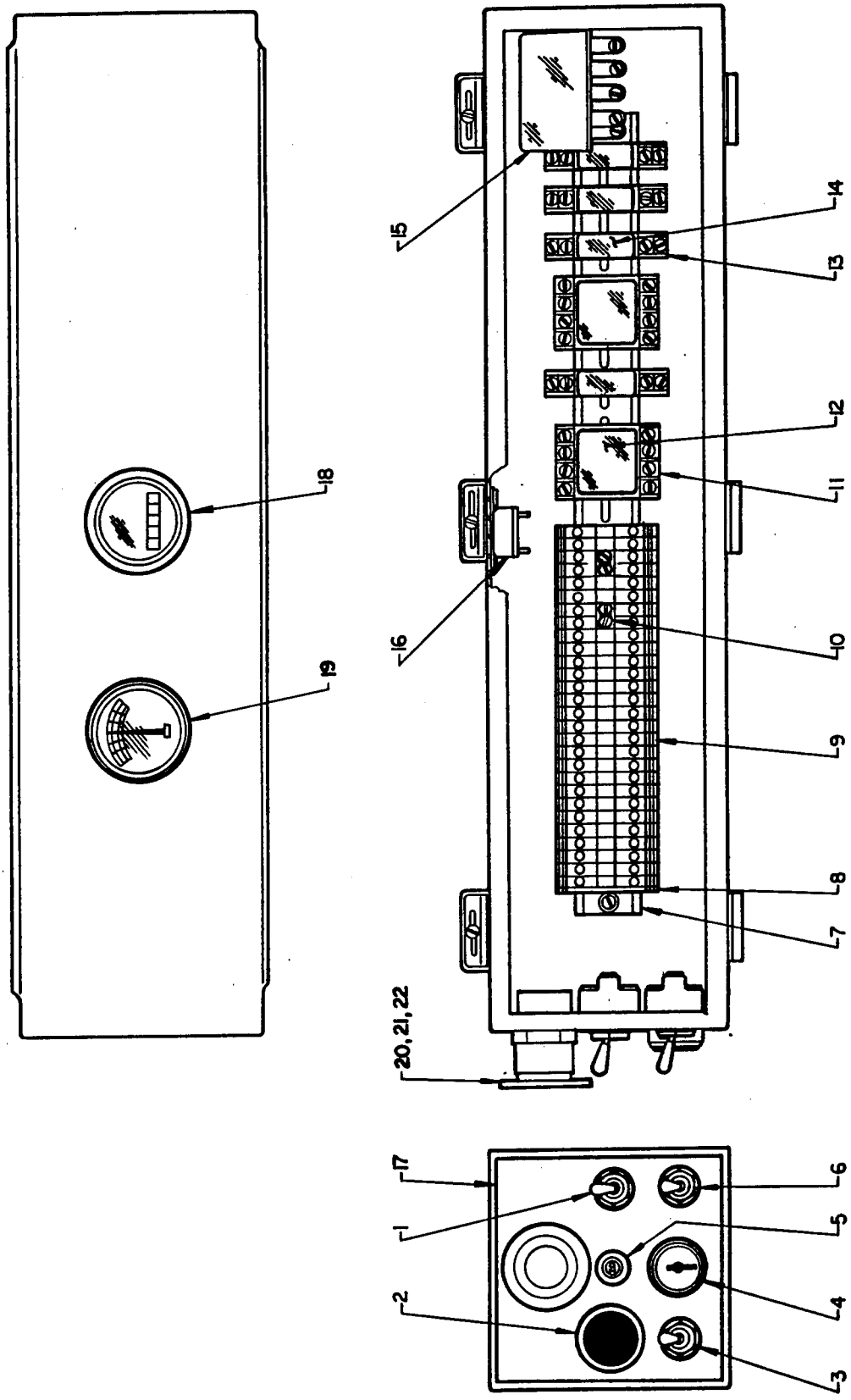

0885/0785

| DESCRIPTION | PART NO. |
|---|---|
| GROUND CONTROL BOX (PROPROTIONAL CONTROLS) | CAA-208493-4 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-020700 | | TOGGLE SWITCH, 4PDT (GROUND OVERRIDE) | 1 |
| 2 | 03-020300 | | PUSH BUTTON (ENGINE START, EMG. POWER) | 2 |
| 3 | 03-020400 | | TOGGLE SWITCH, SPST (IGNITION) | 1 |
| 4 | 03-021000 | | KEYSWITCH | 1 |
| 5 | 03-024000 | | CIRCUIT BREAKER, 20 AMP | 1 |
| 6 | 03-020400 | | TOGGLE SWITCH, SPST (RPM) | 1 |
| 7 | 03-051900 | | MOUNTING RAIL | 14" |
| 8 | 03-066100 | | END PLATE | 1 |
| 9 | 03-066200 | | TERMINAL BLOCK | 30 |
| 10 | 03-066300 | | JUMPER | 2 |
| 11 | 03-051800 | | RELAY BASE | 2 |
| 12 | 03-050100 | | CONTROL RELAY, DPDT | 2 |
| 13 | 03-051600 | | RELAY BASE | 4 |
| 14 | 03-051500 | | CONTROL RELAY | 4 |
| 15 | 03-032100 | | CONTROL RELAY, TIME DELAY | 1 |
| 16 | 03-024700 | | CIRCUIT BREAKER, 20 AMP | 1 |
| 17 | | | DECAL | 1 |
| 18 | 03-030500 | | HOURMETER | 1 |
| 19 | 03-030400 | | AMMETER | 1 |
| 20 | 03-064600 | | PUSH-PULL BUTTON | 1 |
| 21 | 03-023100 | | PUSH-PULL OPERATOR | 1 |
| 22 | 03-025000 | | CONTACT BLOCK, N.C. | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| GROUND CONTROL BOX | CAA-209797-8 |




1085/0985

| DESCRIPTION | PART NO. |
|---|---|
| GROUND CONTROL BOX | CAA-209797-8 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-020300 | | BUTTON, PUSH (Engine start) | 1 |
| | 03-020300 | | BUTTON, PUSH (Emergency power) | 1 |
| 2 | 03-020700 | | SWITCH, TOGGLE (4 pole, Double throw) (Ground override) | 1 |
| 3 | 10-026000 | | DECAL | 1 |
| 4 | 03-020400 | | SWITCH, TOGGLE (Single pole, Single throw) (Ignition) | 1 |
| | 03-020400 | | SWITCH, TOGGLE (Single pole, Single throw) (R.P.M.) | 1 |
| 5 | 03-021000 | | SWITCH, KEY OPERATED | 1 |
| 6 | 03-051700 | | RAIL, MOUNTING (14" long) | 1 |
| 7 | 03-066100 | | PLATE, END | 1 |
| 8 | 03-066200 | | BLOCK, TERMINAL | 30 |
| 9 | 03-066300 | | JUMPER, LINE | 2 |
| 10 | 03-051800 | | BASE, RELAY | 2 |
| 11 | 03-050100 | | RELAY, CONTROL (Double pole, Double throw) | 2 |
| 12 | 03-051600 | | BASE, RELAY | 3 |
| 13 | 03-051500 | | RELAY, CONTROL (Single pole, Single throw) | 3 |
| 14 | 03-052800 | | RELAY, CONTROL (Time delay) | 1 |
| 15 | 03-024000 | | BREAKER, CIRCUIT (20 Amp) | 1 |
| 16 | 03-024700 | | BREAKER, CIRCUIT (20 Amp) | 1 |
| 17 | 03-024100 | | BREAKER, CIRCUIT (10 Amp) | 1 |
| 18 | 03-030500 | | METER, HOUR | 1 |
| 19 | 03-402500 | | SWITCH, CHOKE (Double pole, Single throw) | 1 |
| 20 | 03-402600 | | BEZEL, CHOKE SWITCH OPERATOR | 1 |
| 21 | 03-402800 | | OPERATOR, CHOKE SWITCH | 1 |

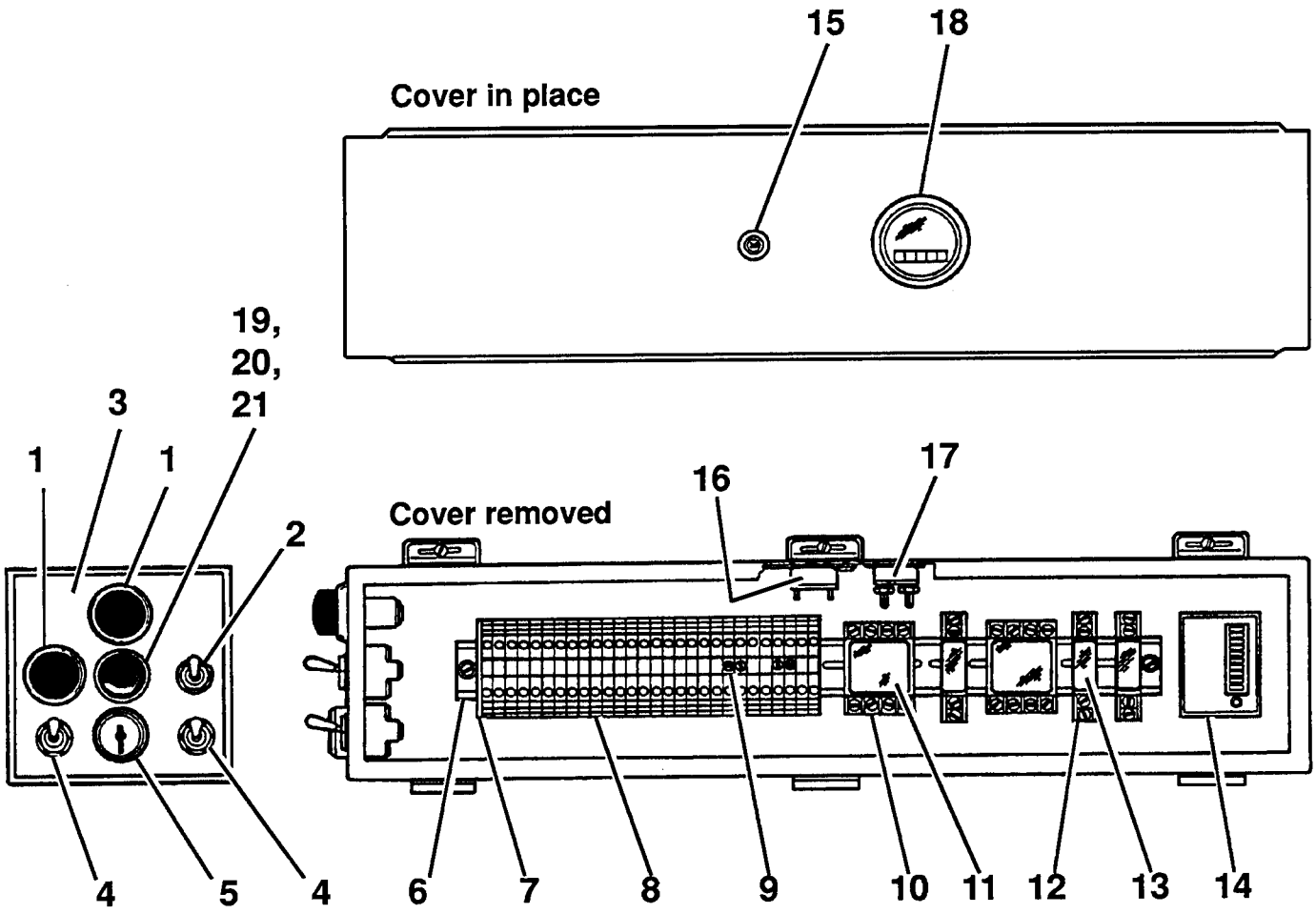
TITLE: GROUND CONTROL BOX ASSEMBLY

PLATE NO. C03.18

**SIMON AERIALS INC.**

REV. 10/01/90

PART NO.

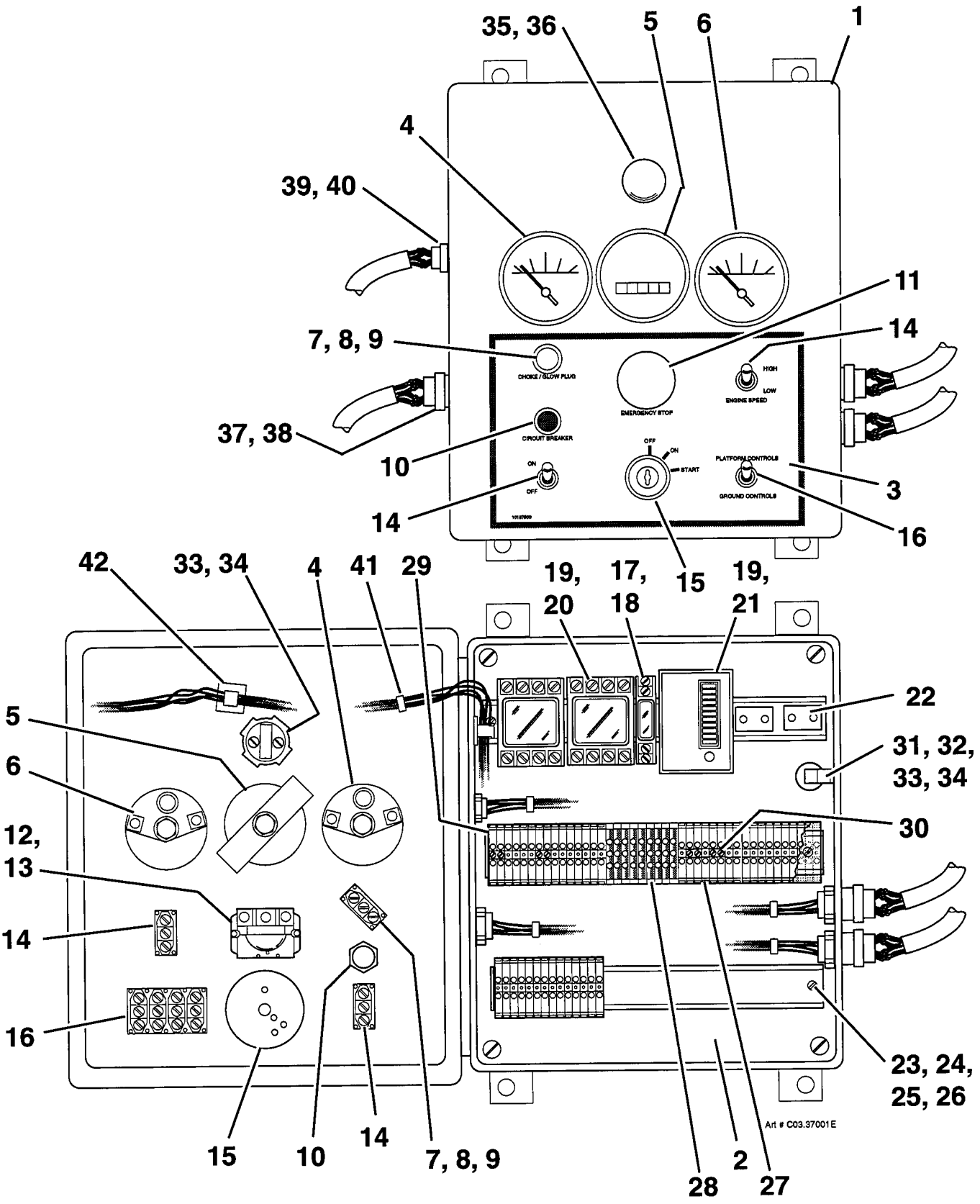



| TITLE | GROUND CONTROL BOX ASSEMBLY | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 10/01/90 | PART NO. | PLATE NO. C03.18 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | This control box assembly for MP 80 and smaller with "Type 1" Electro-Proportional control system: | |
| 1 | 2196520 | | BOX, GROUND CONTROL (Drilled. Includes cover) [12" (305 mm) x 14" (356 mm) x 6" (152 mm) deep] | 1 |
| 2 | 2196530 | | SUBPLATE, MOUNTING | 1 |
| 3 | 10-137500 | | DECAL, GROUND CONTROL | 1 |
| 4 | 03-492200 | | METER, VOLTAGE | 1 |
| 5 | 03-492300 | | METER, HOUR | 1 |
| 6 | 03-492400 | | GAUGE, ENGINE OIL PRESSURE | 1 |
| 7 | 03-402500 | | SWITCH, PUSH BUTTON (Choke/ Glow plug) (10 Amp, 250 Volt AC) | 1 |
| 8 | 03-402600 | | BEZEL, PUSH BUTTON SWITCH | 1 |
| 9 | 03-402800 | | BUTTON, PUSH (Blue) | 1 |
| 10 | 03-024000 | | BREAKER, CIRCUIT (20 Amp @ 120 Volt AC, push to reset) | 1 |
| 11 | 03-409800 | | BUTTON, EMERGENCY STOP (Red, "Twist to release" type) | 1 |
| 12 | 03-454900 | | BASE, SWITCH MOUNTING | 1 |
| 13 | 03-437300 | | BLOCK, CONTACT (normally closed) | 1 |
| 14 | 03-020400 | | SWITCH, TOGGLE ("Engine speed" and "Ignition On/ Off") (2 position, maintained contact, single pole, single throw) | 2 |
| 15 | 03-489800 | | SWITCH, KEY OPERATED (3 position. Includes 2 keys) | 1 |
| 16 | 03-020700 | | SWITCH, TOGGLE (Ground/ Platform selector) (2 position, 4 contact, 2 pole, single throw) | 1 |
| 17 | 03-051600 | | SOCKET, RELAY (Single pole, snap mount) | 1 |
| 18 | 03-051500 | | RELAY, PLUG IN (12 Volt DC, single pole) | 1 |
| 19 | 03-037500 | | SOCKET, RELAY (Double pole, snap mount) | 3 |
| 20 | 03-050100 | | RELAY, PLUG IN (12 Volt DC, double pole) | 2 |
| 21 | 03-052800 | | RELAY, TIME DELAY (.1 to 102.3 second, 12 Volt DC) | 1 |
| 22 | 03-024700 | | BREAKER, CIRCUIT (20 Amp, thermal reset) | 2 |
| 23 | 03-051700 | | RAIL, TERMINAL [1M (39.37") long section] [11" (283 mm) long piece needed for this application] | 3 |
| 24 | 07-011335 | | MACHINE SCREW, PAN HEAD (#6-32 x 1/2") | 7 |
| 25 | 07-050007 | | NUT, HEX LOCK (#6-32, Grade 5) | 7 |
| 26 | 07-062009 | | WASHER, FLAT (#8) | 7 |
| 27 | 03-066200 | | BLOCK, TERMINAL (25 Amp, for #12 Gauge wire) | 47 |
| 28 | 03-039100 | | BLOCK, TERMINAL (Grounding, for #12 Gauge wire) | 9 |
| 29 | 03-066100 | | PLATE, TERMINAL BLOCK END | 2 |
| 30 | 03-066300 | | JUMPER, LINE (Double) | 4 |

| | | | | |
|---|---|---|---|---|
| TITLE | GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 2) | | | |
| PLATE NO. | C03.37 | **SIMON AERIALS INC.** | NEW 13 DEC., 1993 | PART NO. |

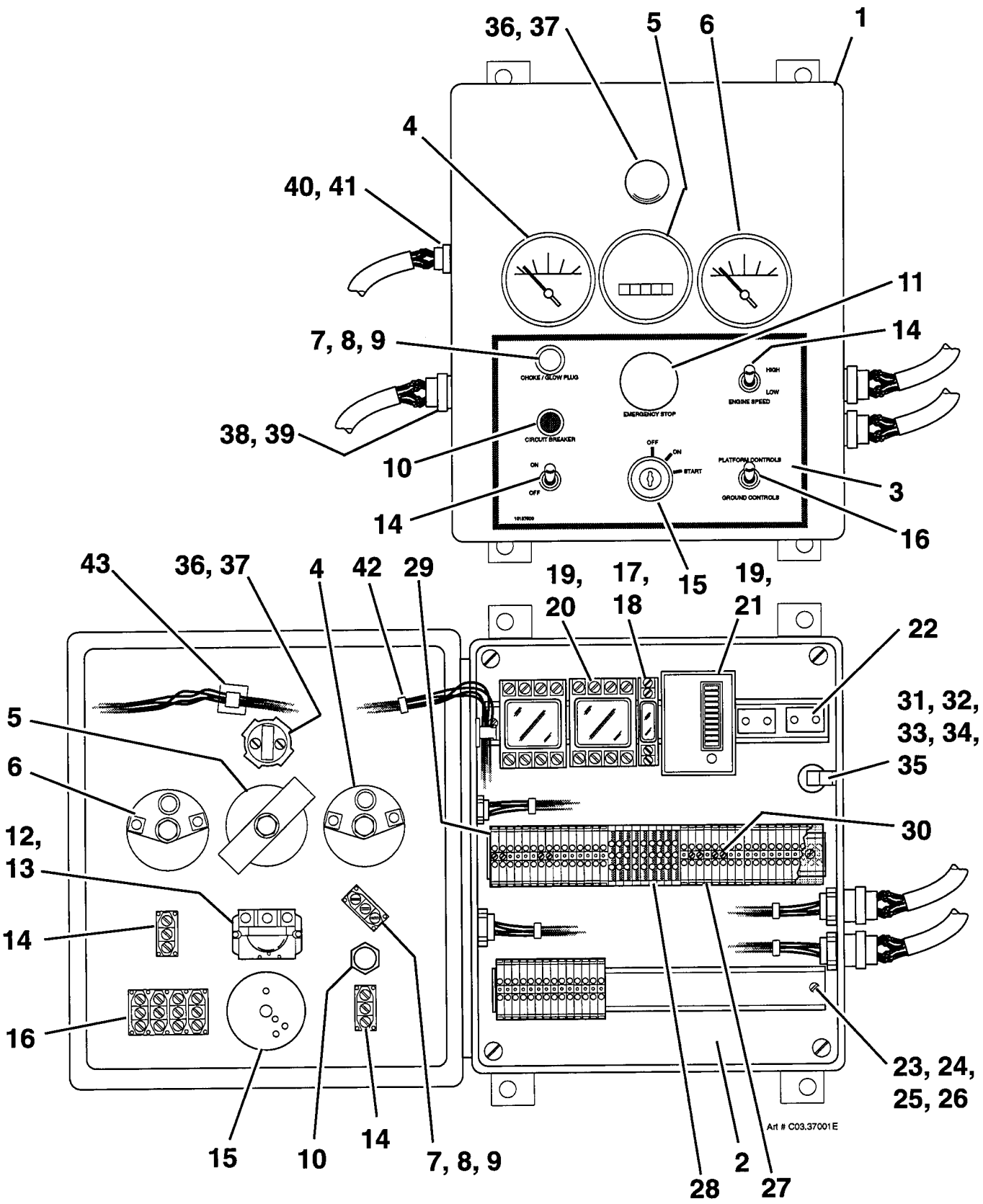



| TITLE | GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | NEW 13 DEC., 1993 | PART NO. | PLATE NO. C03.37 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 31 | 03-480600 | | RESISTOR (15 Ohm max., 25 Watt) | 1 |
| 32 | 03-480700 | | BRACKET, RESISTOR MOUNTING | 2 |
| 33 | 07-011335 | | MACHINE SCREW, PAN HEAD (#6-32 x 1/2") | 2 |
| 34 | 07-050007 | | NUT, HEX LOCK (#6-32, Grade 5) | 2 |
| 35 | 07-062009 | | WASHER, FLAT (#8) | 2 |
| 36 | 03-038800 | | LAMP, CONTROL PANEL (hooded) (option) | 1 |
| 37 | 03-418600 | | BULB, PANEL LAMP (12 Volt, #68) | 1 |
| 38 | 03-063200 | | GRIP, CORD (3/4") | 5 |
| 39 | 03-055600 | | NUT, CONDUIT (3/4") | 5 |
| 40 | 03-041000 | | GRIP, CORD (1/2") | 1 |
| 41 | 03-055500 | | NUT, CONDUIT (1/2") | 1 |
| 42 | 03-064000 | | TIE, CABLE | A.R. |
| 43 | 03-064100 | | MOUNT, CABLE TIE (Adhesive backed) | A.R. |
| | | | The following hardware items are typically used in making electrical connections in ground control boxes: | |
| 44 | 03-092200 | | COUPLING, INSULATED (Male, blue nylon, #14-16 AWG) | A.R. |
| 45 | 03-092300 | | COUPLING, INSULATED (Female, blue nylon, #14-16 AWG) | A.R. |
| 46 | 03-096000 | | TERMINAL, END (Blue, "piggyback") (#14-16 AWG) | A.R. |
| 47 | 03-094600 | | TERMINAL, RING (Blue, #14-16 AWG, #10 stud) | A.R. |
| 48 | 03-091200 | | TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud) | A.R. |
| 49 | 03-098400 | | TERMINAL, END (Blue, #14-16 AWG) | A.R. |
| 50 | 03-099000 | | CONNECTOR, BUTT (Blue, #14-16 AWG) | A.R. |
| 51 | 03-098100 | | TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG) | A.R. |
| 52 | 03-095500 | | TERMINAL, RING (Yellow, #10 AWG, #6 stud) | A.R. |
| 53 | 03-095700 | | TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud) | A.R. |
| 54 | 03-099100 | | CONNECTOR, BUTT (Yellow, #10-12 AWG) | A.R. |
| 55 | 03-095900 | | TERMINAL, RING (Red, #8 stud) | A.R. |
| 56 | 03-066800 | | LOOM, WIRE (1/2") | A.R. |
| 57 | 03-066900 | | LOOM, WIRE (3/4") | A.R. |
| 58 | 03-405200 | | TUBING, HEAT SHRINK (Clear, 3/16") | A.R. |
| 59 | 03-403800 | | DIODE | A.R. |
| 60 | 03-447800 | | RESISTOR (10 Ohm, 12 Watt) | 2 |

| | | | |
|---|---|---|---|
| TITLE | GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 2) | | |
| PLATE NO. C03.37 | **SIMON AERIALS INC.** | NEW 13 DEC., 1993 | PART NO. |




| TITLE | GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** NEW 13 DEC., 1993 | | PART NO. | PLATE NO. C03.37 |

# PARTS LIST

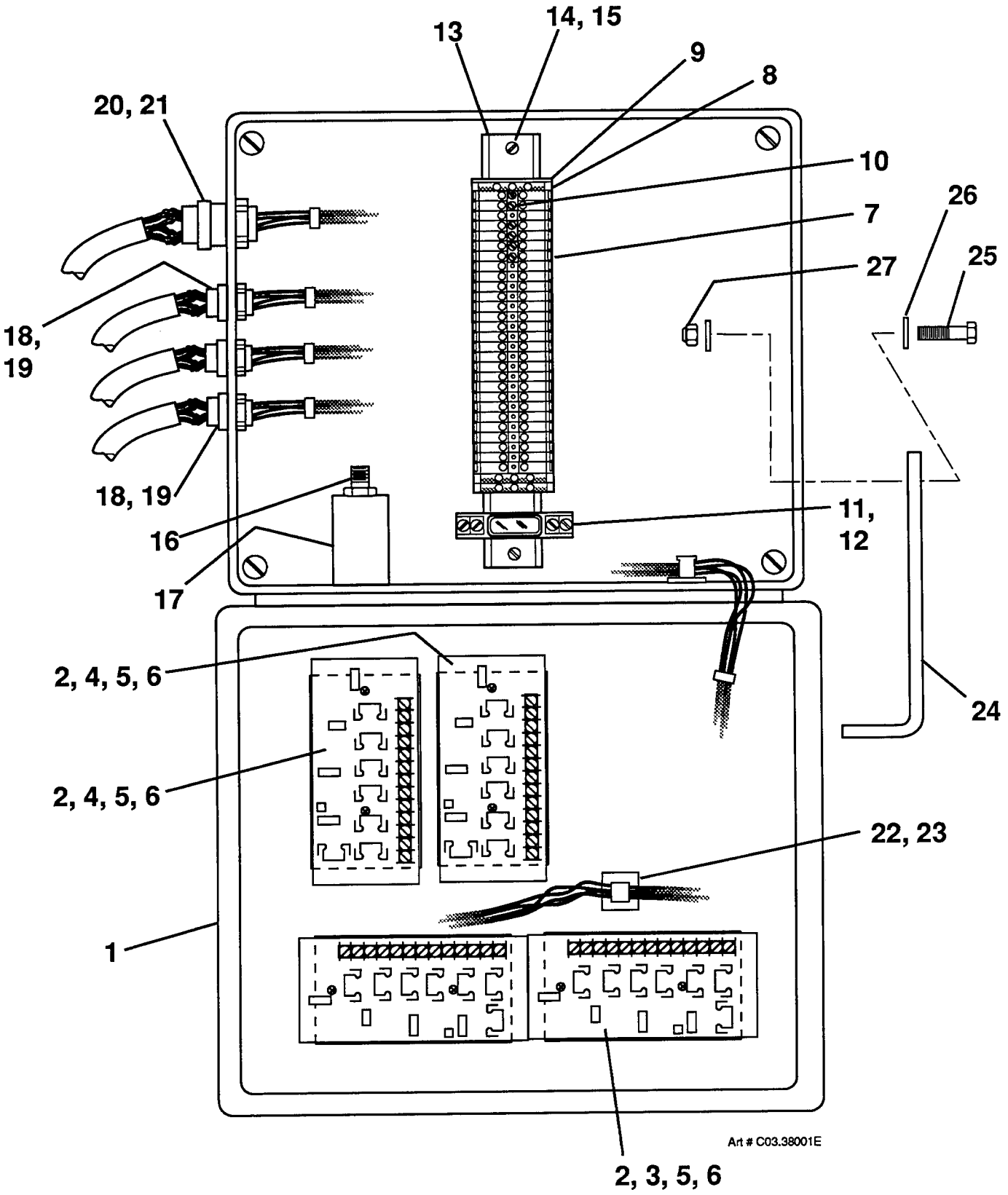
| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 2150050 | | CABINET, DRIVE CARD | 1 |
| 2 | 03-027201 | | BOARD, DRIVE | 4 |
| 3 | 2143240 | | CHANNEL, MOUNTING [10" (254 mm) long] | 1 |
| 4 | 2150130 | | CHANNEL, MOUNTING [4" (102 mm) long] | 2 |
| 5 | 07-013414 | | MACHINE SCREW, ROUND HEAD (#10-32 x 1/2", Grade 2) | 6 |
| 6 | 07-050111 | | NUT, STOP (#10-32) (not shown) | 6 |
| 7 | 03-066200 | | BLOCK, TERMINAL (25 Amp, for #12 Gauge wire) | 23 |
| 8 | 03-039100 | | BLOCK, TERMINAL (Grounding, for #12 Gauge wire) | 4 |
| 9 | 03-066100 | | PLATE, TERMINAL BLOCK END | 1 |
| 10 | 03-066300 | | JUMPER, LINE (Double) | 3 |
| 11 | 03-051500 | | RELAY, PLUG IN (Single pole, 12 Volt DC) | 1 |
| 12 | 03-051600 | | SOCKET, RELAY (Single pole, snap mount) | 1 |
| 13 | 2150140 | | TRACK, MOUNTING [9" (229 mm) long] | 1 |
| 14 | 07-011335 | | MACHINE SCREW, ROUND HEAD (#6-32 x 1/2") | 2 |
| 15 | 07-050007 | | NUT, LOCK (#6-32) | 2 |
| 16 | 03-403100 | | POTENTIOMETER (25 K) | 1 |
| 17 | 2114210 | | MOUNT, POTENTIOMETER | 1 |
| 18 | 03-041000 | | GRIP, CORD (1/2", sealing) | 3 |
| 19 | 03-055500 | | NUT, CONDUIT LOCK (1/2") | 3 |
| 20 | 03-063200 | | GRIP, CORD (3/4", sealing) | 1 |
| 21 | 03-055600 | | NUT, CONDUIT LOCK (3/4") | 1 |
| 22 | 03-064000 | | TIE, CABLE [7.4" (188 mm) long] | A.R. |
| 23 | 03-064100 | | MOUNT, CABLE TIE | 7 |
| 24 | 2097255 | | BRACKET, MOUNTING | 2 |
| 25 | | | CAP SCREW, HEX HEAD | 4 |
| 26 | | | WASHER, FLAT | 8 |
| 27 | | | NUT, HEX LOCK | 4 |

TITLE: DRIVE CARD BOX, MP (ELECTRO-PROPORTIONAL)

PLATE NO. C03.38

**SIMON AERIALS INC.** NEW 10 DEC., 1993

PART NO.



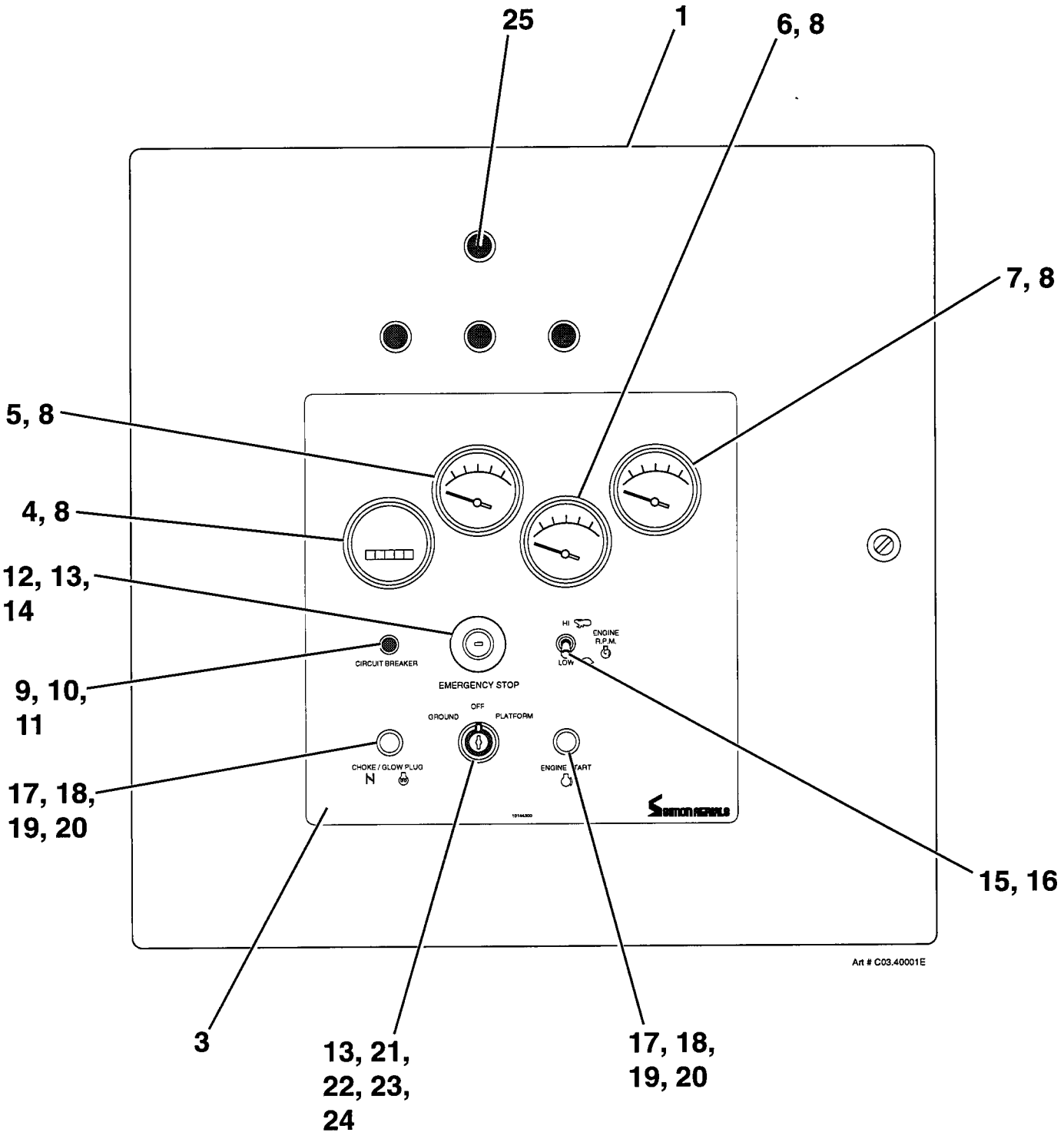

| TITLE | DRIVE CARD BOX, MP (ELECTRO-PROPORTIONAL) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** NEW 10 DEC., 1993 | | PART NO. | PLATE NO. C03.38 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 233 1150 | | BOX, GROUND CONTROL (Drilled. Includes cover) | |
| | | | (20" [50.8 cm] x 20" [50.8 cm] x 8" [203 mm] deep) | 1 |
| 2 | 03-495800 | | PANEL, ENCLOSURE (17" x 17") | 1 |
| 3 | 10-144300 | | DECAL, GROUND CONTROL | 1 |
| 4 | 03-492300 | | METER, HOUR (12 to 24 Volt DC, solid state) | 1 |
| 5 | 03-492200 | | METER, VOLTAGE (8 to 18 Volt range) | 1 |
| 6 | 03-492400 | | GAUGE, ENGINE OIL PRESSURE (12 Volt DC, 0 - 100 PSI) | 1 |
| 7 | 03-493300 | | GAUGE, ENGINE COOLANT TEMPERATURE | |
| | | | (optional with liquid cooled engines) | 1 |
| 8 | 01-225700 | | "O"-RING (1.989" I.D., .070" thick) | A.R. |
| 9 | 03-024000 | | BREAKER, CIRCUIT (20 Amp @ 120 Volt AC, push to reset) | 1 |
| 10 | 01-037400 | | "O"-RING (.351" I.D., .072" thick) | 1 |
| 11 | 03-499800 | | SEAL, CIRCUIT BREAKER BUTTON | 1 |
| 12 | 03-702000 | | BUTTON, EMERGENCY STOP | |
| | | | (Red, "pull to release" style) | 1 |
| 13 | 03-454900 | | BASE, CONTACT BLOCK | 2 |
| 14 | 03-437300 | | BLOCK, CONTACT (Normally closed) | 1 |
| 15 | 03-020400 | | SWITCH, TOGGLE (Engine speed) | |
| | | | (2 position, maintained contact, single pole, single throw) | 1 |
| 16 | 03-497900 | | SEAL, PANEL | 1 |
| 17 | 03-402500 | | SWITCH (10 Amp, 250 Volt AC) | |
| | | | (Choke/ Glow plug) (Engine start) | 2 |
| 18 | 03-402800 | | BUTTON, PUSH (Blue) | A.R. |
| | 03-402900 | | BUTTON, PUSH (Green) | A.R. |
| 19 | 03-402600 | | SEAL, SWITCH BEZEL | 2 |
| 20 | 10-151000 | | CAP (Black vinyl) | 2 |
| 21 | | | SWITCH, GROUND/ PLATFORM SELECTOR (3 position) | 1 |
| | 03-496100 | | KEY OPERATED (Includes 2 keys. Standard.) | |
| | 03-454800 | | ROTARY SELECTOR (Option) | |
| 22 | 03-496101 | | KEY (Pre-cut. For Key Switch, Item 21) | 1 |
| 23 | | | BLOCK, CONTACT (Normally open) | 2 |
| | 03-496200 | | For use with Key Switch | |
| | 03-437200 | | For use with Rotary Switch | |
| 24 | 03-496300 | | BLOCK, CONTACT (Normally closed) | 1 |
| 25 | 03-022900 | | LIGHT, PILOT (12 Volt DC) | 4 |

**TITLE** GROUND CONTROL BOX ASSEMBLY, MP 110 (PLATE 1 OF 3)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| C03.40 | **SIMON AERIALS INC.** REV. 13 DEC., 1995 | | 353 8130 |



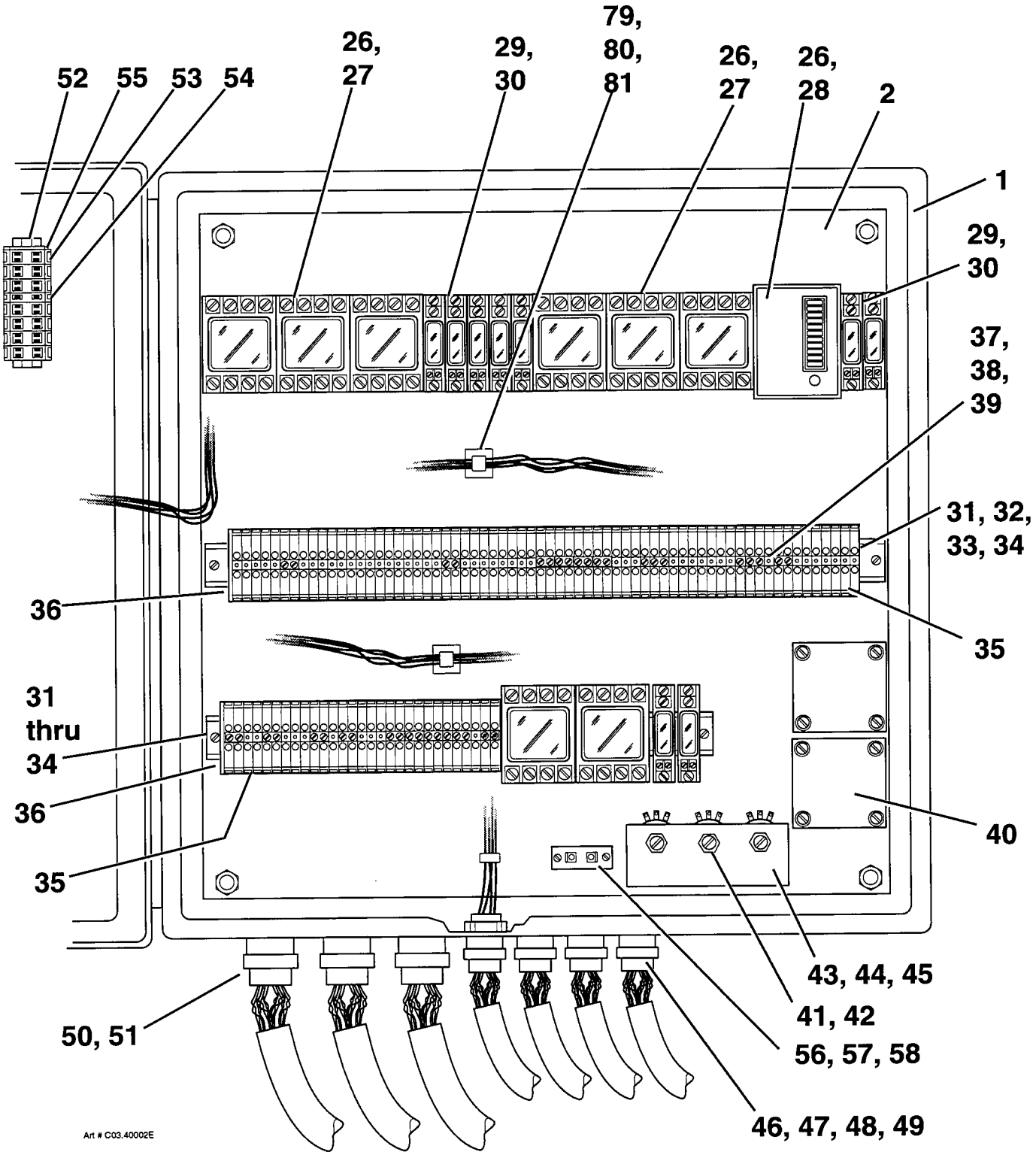

| | | | |
|---|---|---|---|
| TITLE | GROUND CONTROL BOX ASSEMBLY, MP 110 (PLATE 1 OF 3) | | |
| SIMON AERIALS INC. REV. 13 DEC., 1995 | | PART NO. 353 8130 | PLATE NO. C03.40 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 26 | 03-037500 | | SOCKET, RELAY (Double pole, snap mount) | A.R. |
| 27 | 03-050100 | | RELAY, PLUG IN (12 Volt DC, double pole) | A.R. |
| | | | **Note:** Quantity of Relays varies with options fitted | |
| 28 | 03-052800 | | RELAY, TIME DELAY (.1 to 102.3 second, 12 Volt DC) | 1 |
| 29 | 03-051600 | | SOCKET, RELAY (Single pole, snap mount) | A.R. |
| 30 | 03-051500 | | RELAY, PLUG IN (12 Volt DC, single pole) | A.R. |
| | | | **Note:** Quantity of Relays varies with options fitted | |
| 31 | 03-051700 | | RAIL, TERMINAL (1-3/8" [35 mm] wide) (1M [39.37"] long section. Cut to fit.) (48" [1.2 M] in total required here) | A.R. |
| 32 | 07-011335 | | MACHINE SCREW, PAN HEAD (#6-32 x 1/2") | 6 |
| 33 | 07-050007 | | NUT, STOP (#6-32, Grade 5) | 6 |
| 34 | 07-090063 | | WASHER, EXTERNAL TOOTH LOCK (#6) | 2 |
| 35 | 03-066200 | | BLOCK, TERMINAL (25 Amp, for #12 Gauge wire) | 96 |
| 36 | 03-066100 | | PLATE, TERMINAL BLOCK END | 2 |
| 37 | 03-066300 | | BAR, JUMPER (2 pole) (Double line jumper) | A.R. |
| 38 | 03-067500 | | BAR, JUMPER (3 pole) (Triple line jumper) | A.R. |
| 39 | 03-707200 | | BAR, JUMPER (4 pole) (Quad line jumper) | A.R. |
| 40 | 03-481600 | | MODULE, CONTROL (Nameplate marked "MC 31000036", Controls low speed drive, controls boom functions.) | 2 |
| 41 | 03-027231 | | POTENTIOMETER (10 K Ohm) | 3 |
| 42 | 03-044900 | | LOCK, SHAFT | 3 |
| 43 | 233 7800 | | BRACKET, POTENTIOMETER MOUNTING | 1 |
| 44 | 07-011335 | | MACHINE SCREW, PAN HEAD (#6-32 x 1/2") | 2 |
| 45 | 07-050007 | | NUT, STOP (#6-32, Grade 5) | 2 |
| 46 | 03-045500 | | GRIP, CORD (1/2", with .31" to .38" seal) | 9 |
| 47 | 03-041000 | | GRIP, CORD (1/2", with .38" to .44" seal) | 1 |
| 48 | 03-037200 | | GRIP, CORD (1/2", with .56" to .62" seal) | 1 |
| 49 | 03-055500 | | NUT, CONDUIT (1/2") | 11 |
| 50 | 03-063200 | | GRIP, CORD (3/4", with .69" to .75" seal) | 4 |
| 51 | 03-055600 | | NUT, CONDUIT (3/4") | 4 |
| 52 | 03-036600 | | RAIL, TERMINAL (5/8" [16 mm] wide) (1M [39.37"] long section. Cut to fit.) (3-1/4" [82 mm] required here) | A.R. |
| 53 | 03-036500 | | BLOCK, TERMINAL (4 conductor, for #16 to #24 Gauge wire) | 7 |
| 54 | 03-036400 | | BLOCK, TERMINAL (2 conductor, for #16 to #24 Gauge wire) | 1 |
| 55 | 03-036700 | | PLATE, TERMINAL BLOCK END | 1 |
| 56 | 03-024700 | | BREAKER, CIRCUIT (20 Amp) (Used with Light Package) | 1 |
| 57 | 07-013414 | | MACHINE SCREW, ROUND HEAD (#10-32 x 1/2", Grade 2) | 2 |
| 58 | 07-050111 | | NUT, HEX LOCK ((#10-32, Grade 2) | 2 |

TITLE GROUND CONTROL BOX ASSEMBLY, MP 110 (PLATE 2 OF 3)

PLATE NO. C03.40 | **SIMON AERIALS INC.** REV. 13 DEC., 1995 | PART NO. 353 8130




View of inside of box

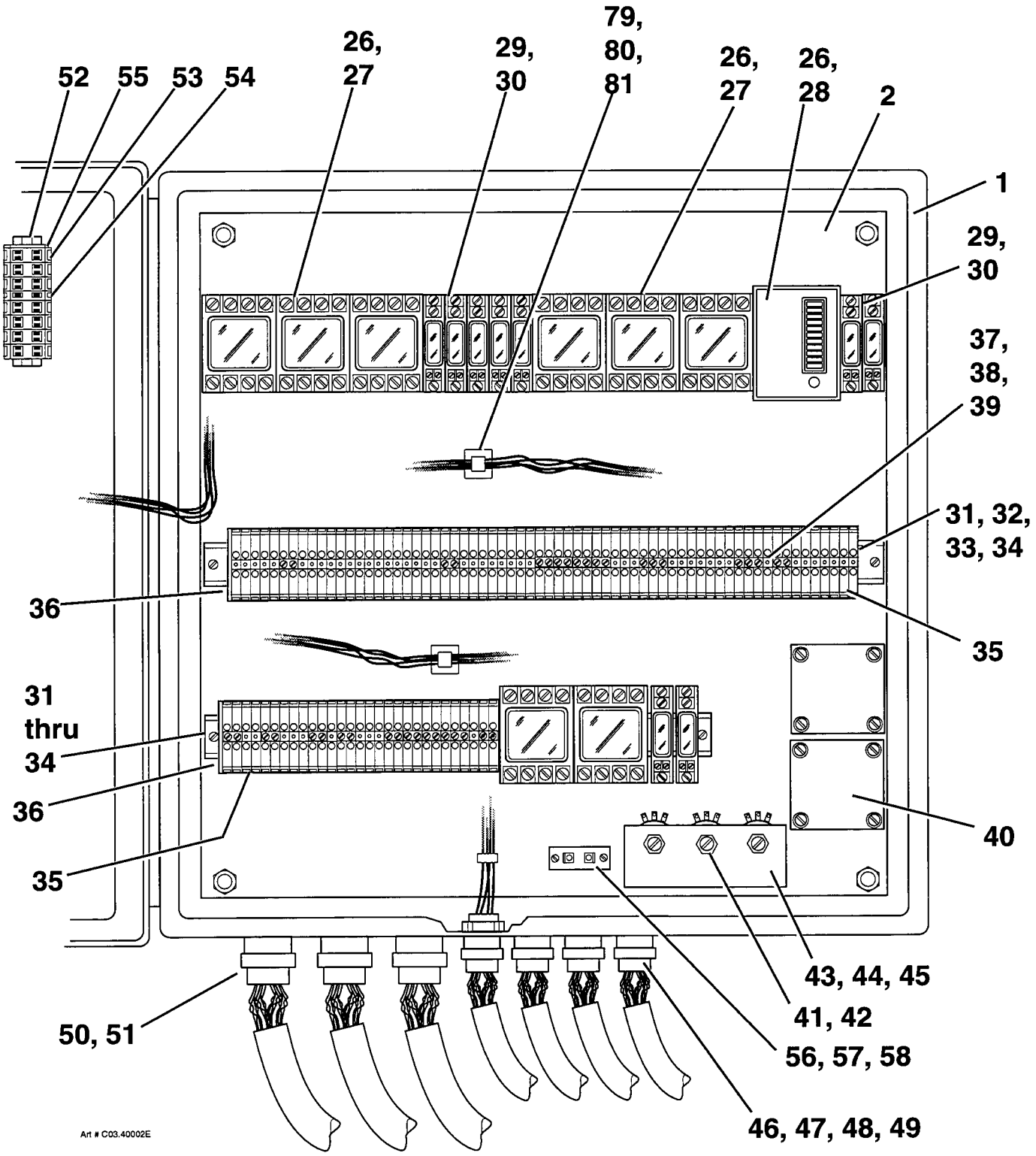
| TITLE | GROUND CONTROL BOX ASSEMBLY, MP 110 (PLATE 2 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 13 DEC., 1995 | PART NO. 353 8130 | PLATE NO. C03.40 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | The following hardware items, listed for your convenience, are **typically** used in Simon electrical control boxes: | |
| 59 | 03-488800 | | CABLE, ELECTRICAL (Type F 569, 19 conductor, #16 AWG) (Bulk item, order as needed) | |
| 60 | 03-088300 | | WIRE, ELECTRICAL (#14 AWG, Blue, stranded) (Bulk item) | |
| 61 | 03-087500 | | WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item) | |
| 62 | 03-087600 | | WIRE, ELECTRICAL (#16 AWG, Black, stranded) (Bulk item) | |
| 63 | 03-403800 | | DIODE | |
| 64 | 03-092200 | | COUPLING, INSULATED (Male, blue nylon, #14-16 AWG) | |
| 65 | 03-092300 | | COUPLING, INSULATED (Female, blue nylon, #14-16 AWG) | |
| 66 | 03-096000 | | TERMINAL, END (Blue, "piggyback") (#14-16 AWG) | |
| 67 | 03-094600 | | TERMINAL, RING (Blue, #14-16 AWG, #10 stud) | |
| 68 | 03-091200 | | TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud) | |
| 69 | 03-098400 | | TERMINAL, END (Blue, #14-16 AWG) | |
| 70 | 03-099000 | | CONNECTOR, BUTT (Blue, #14-16 AWG) | |
| 71 | 03-098100 | | TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG) | |
| 72 | 03-095500 | | TERMINAL, RING (Yellow, #10 AWG, #6 stud) | |
| 73 | 03-095700 | | TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud) | |
| 74 | 03-099100 | | CONNECTOR, BUTT (Yellow, #10-12 AWG) | |
| 75 | 03-095900 | | TERMINAL, RING (Red, #8 stud) | |
| 76 | 03-066800 | | LOOM, WIRE (1/2") | |
| 77 | 03-066900 | | LOOM, WIRE (3/4") | |
| 78 | 03-405200 | | TUBING, HEAT SHRINK (Clear, 3/16") | |
| 79 | 03-439000 | | TIE, CABLE (3-5/8" [92 mm] long) | |
| 80 | 03-064000 | | TIE, CABLE (7.4" [188 mm] long) | |
| 81 | 03-064100 | | MOUNT, CABLE TIE (Adhesive backed) | |

TITLE GROUND CONTROL BOX ASSEMBLY, MP 110 (PLATE 3 OF 3)

PLATE NO. C03.40 | **SIMON AERIALS INC.** REV. 13 DEC., 1995 | PART NO. 353 8130



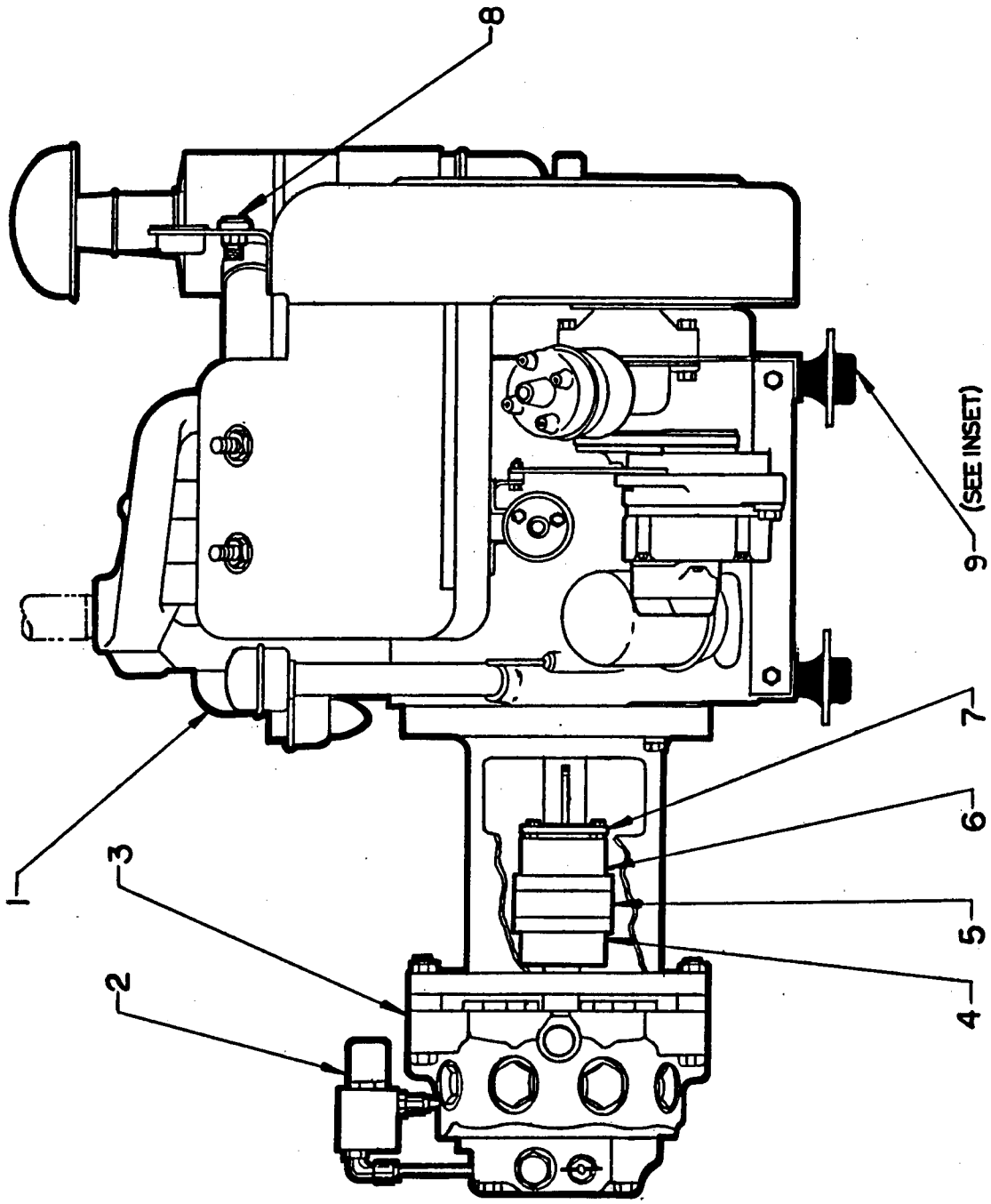

**View of inside of box**

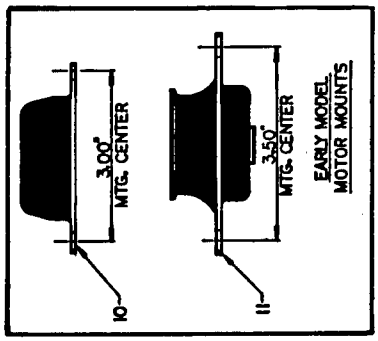
| TITLE | GROUND CONTROL BOX ASSEMBLY, MP 110 (PLATE 3 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 13 DEC., 1995 | | PART NO. 353 8130 | PLATE NO. C03.40 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 09-002300 | | GAS ENGINE, 37 H.P. ( WIS. MODEL#VG4D) | 1 |
| 2 | 01-034400 | | SOLENOID VALVE, PUMP UNLOADING | 1 |
| 3 | SEE INDEX | D8 | HYDRAULIC PUMP | 1 |
| 4 | SCW-202004-8 | | COUPLING HALF (PUMP) | 1 |
| 5 | 02-002000 | | COUPLING INSERT | 1 |
| 6 | 02-003400 | | COUPLING HALF (ENGINE | 1 |
| 7 | 08-006900 | | BUSHING | 1 |
| 8 | 03-021000 | | KEYSWITCH | 1 |
| 9 | 09-006500 | | MOTOR MOUNT ( 3-3/4" MTG. CENTER) | 4 |
| 10 | 09-001800 | | MOTOR MOUNT - EARLY MODEL | 4 |
| 11 | 09-006600 | | MOTOR MOUNT - EARLY MODEL | 4 |

| DESCRIPTION | PART NO. |
|---|---|
| GAS ENGINE ASSEMBLY - 37 H.P. | CAA-208464-2 |



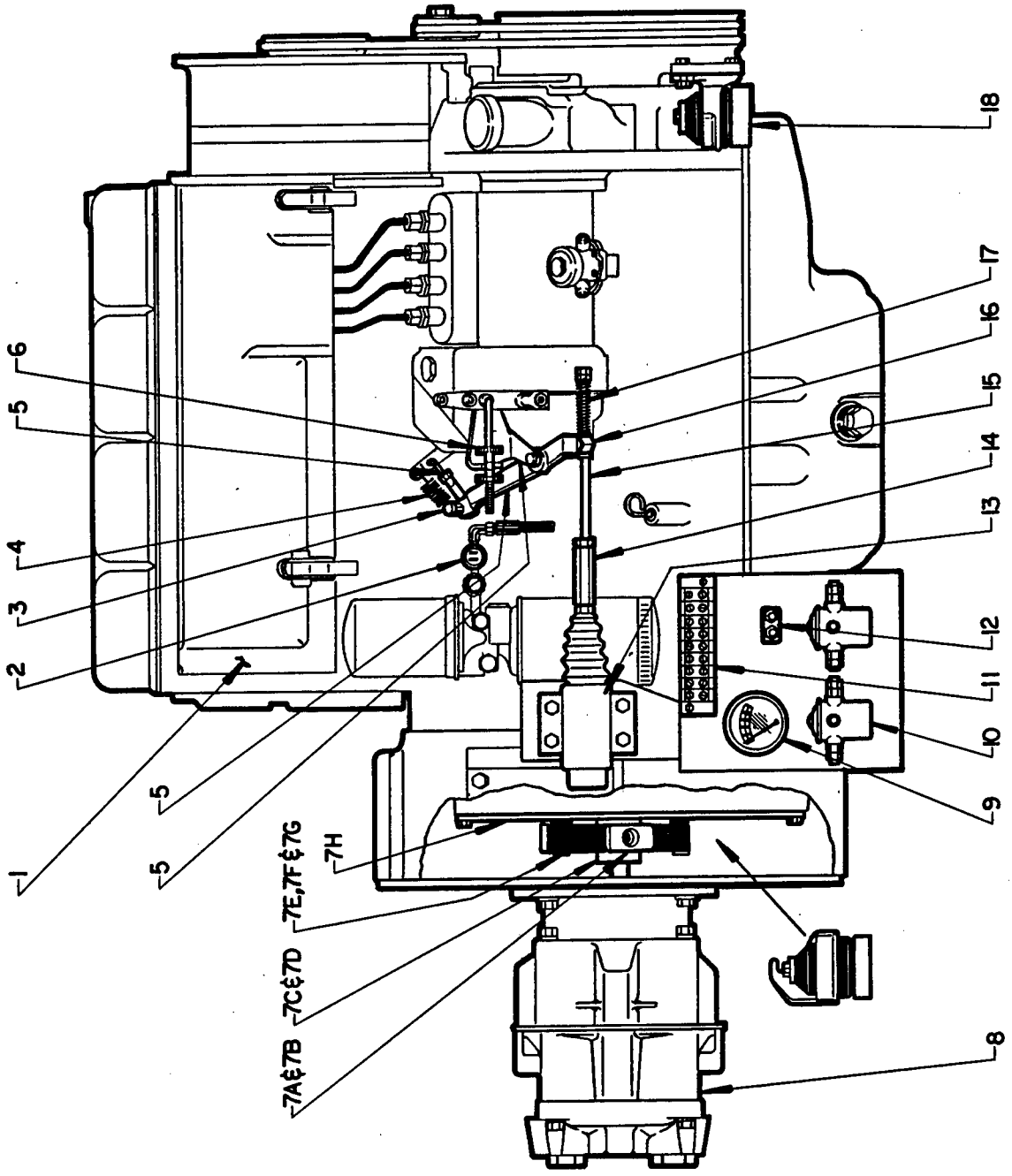

0385

| DESCRIPTION | PART NO. |
|---|---|
| GAS ENGINE ASSEMBLY - 37 H.P. | CAA-208464-2 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 09-008100 | | DIESEL ENGINE (DEUTZ MODEL #F4L912) | 1 |
| 2 | 09-012700 | | OIL PRESSURE SWITCH | 1 |
| 3 | 09-019405 | | HEX ADAPTER POST | 1 |
| 4 | 09-019406 | | EXTENSION SPRING | 1 |
| 5 | 09-019407 | | PIVOT LEVER ASSEMBLY | 1 |
| 6 | | | THROTTLE SPEED ADJ. SCREW ASSEMBLY | 1 |
| 7 | 02-009200 | | PUMP COUPLING, COMPLETE | 1 |
| 7A | | | RADIAL INSERT, COUPLING | 3 |
| 7B | | | SHOULDER SCREW, RADIAL INSERT | 3 |
| 7C | | | CYLINDRICAL HUB, COUPLING | 1 |
| 7D | | | SPLINE LOCK SCREW, CYLINDRICAL HUB | 2 |
| 7E | | | HYTREL INSERT, COUPLING | 1 |
| 7F | | | SHOULDER SCREW, HYTREL INSERT | 3 |
| 7G | | | AXIAL DRIVE PIN, HYTREL INSERT | 3 |
| 7H | | | ADAPTER PLATE | 1 |
| 8 | 01-015000 | D8.6 | HYDRAULIC PUMP | 1 |
| 9 | 10-034200 | | OIL PRESSURE GAUGE | 1 |
| 10 | 03-051300 | | RELAY | 2 |
| 11 | 03-068000 | | TERMINAL STRIP | 1 |
| 12 | 03-024100 | | CIRCUIT BREAKER, 10 AMP | 1 |
| 13 | 09-000404 | | RACK SOLENOID | 1 |
| 14 | 09-019402 | | THREADED HEX ROD | 1 |
| 15 | 09-019401 | | ROD EXTENSION | 1 |
| 16 | 09-019403 | | HEX SCREW | 1 |
| 17 | 09-019404 | | COMPRESSION SPRING | 1 |
| 18 | | | MOTOR MOUNT | 2 |

| DESCRIPTION | PART NO. |
|---|---|
| DIESEL ENGINE ASSEMBLY | CAA-208468-4 |



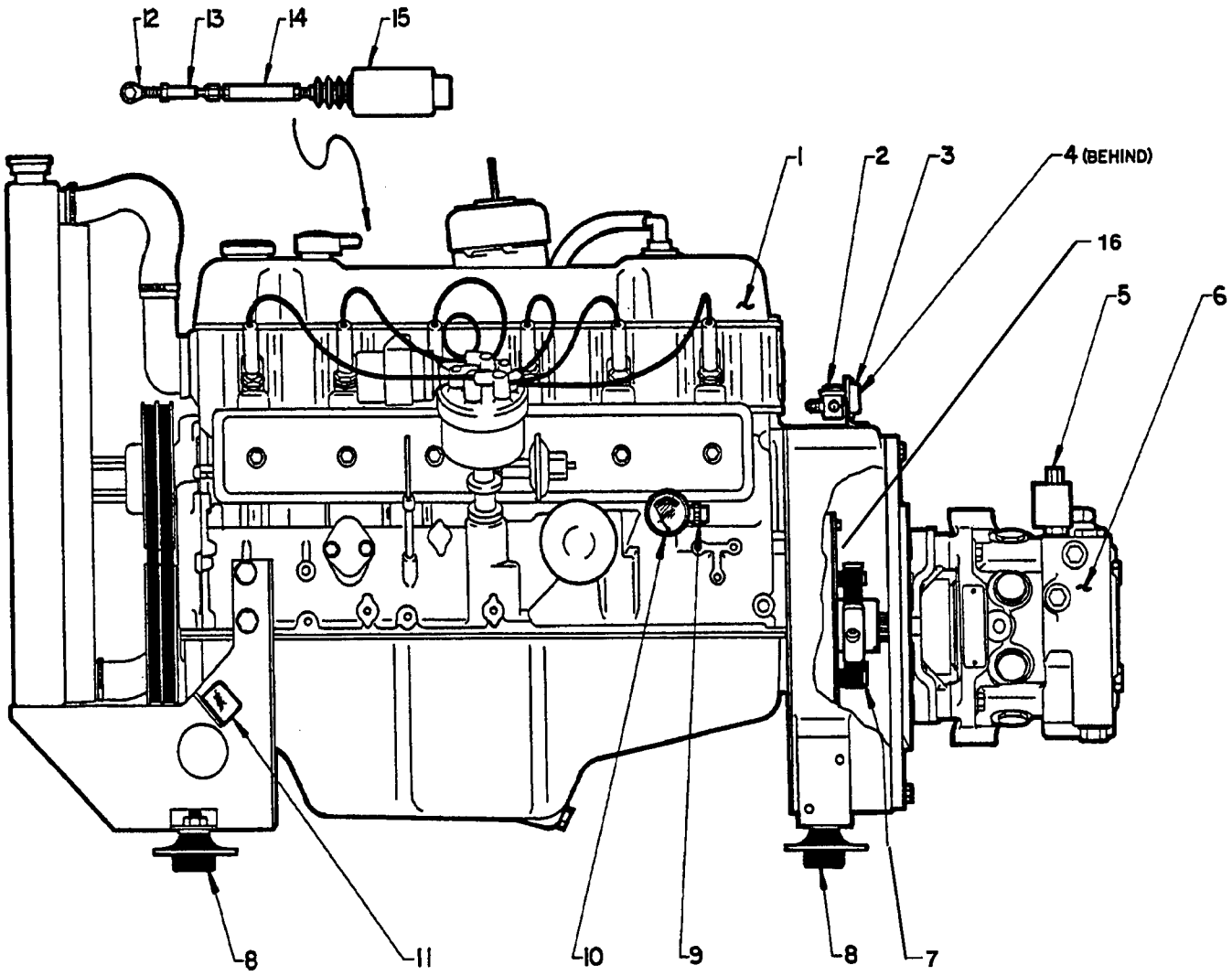

0385/0385

| DESCRIPTION | PART NO. |
|---|---|
| DIESEL ENGINE ASSEMBLY | CAA-208468-4 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 09-020700 | | ENGINE (Ford 6 cylinder 300CID, Model CSG) | 1 |
| 2 | 03-022100 | | RELAY, STARTER | 1 |
| 3 | | | REGULATOR, VOLTAGE | 1 |
| 4 | 03-068000 | | STRIP, TERMINAL | 1 |
| 5 | 01-013700 | | VALVE, SOLENOID (pump unloading) | 1 |
| 6 | SEE INDEX | D08 | PUMP, HYDRAULIC | 1 |
| 7 | 02-012600 | | COUPLING, PUMP (complete) | 1 |
| 8 | 09-006500 | | MOUNT, MOTOR | 4 |
| 9 | 09-012700 | | SWITCH, OIL PRESSURE | 1 |
| 10 | 10-034200 | | GAUGE, OIL PRESSURE | 1 |
| 11 | 03-046300 | | SWITCH, OVERSPEED | 1 |
| 12 | 08-014500 | | END, TIE ROD | 1 |
| 13 | 09-016402 | | BALL JOINT, STRAIGHT | 1 |
| 14 | | | COUPLER, THREADED | 1 |
| 15 | 09-000404 | | SOLENOID, THROTTLE ADVANCE | 1 |
| 16 | 02-012900 | | PLATE, CLUTCH | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | WATER-COOLED GAS ENGINE ASSEMBLY | | | |
| PLATE NO. | C04.18 | **SIMON AERIALS INC.** | REV. 09/07/90 | PART NO. 2097938 |

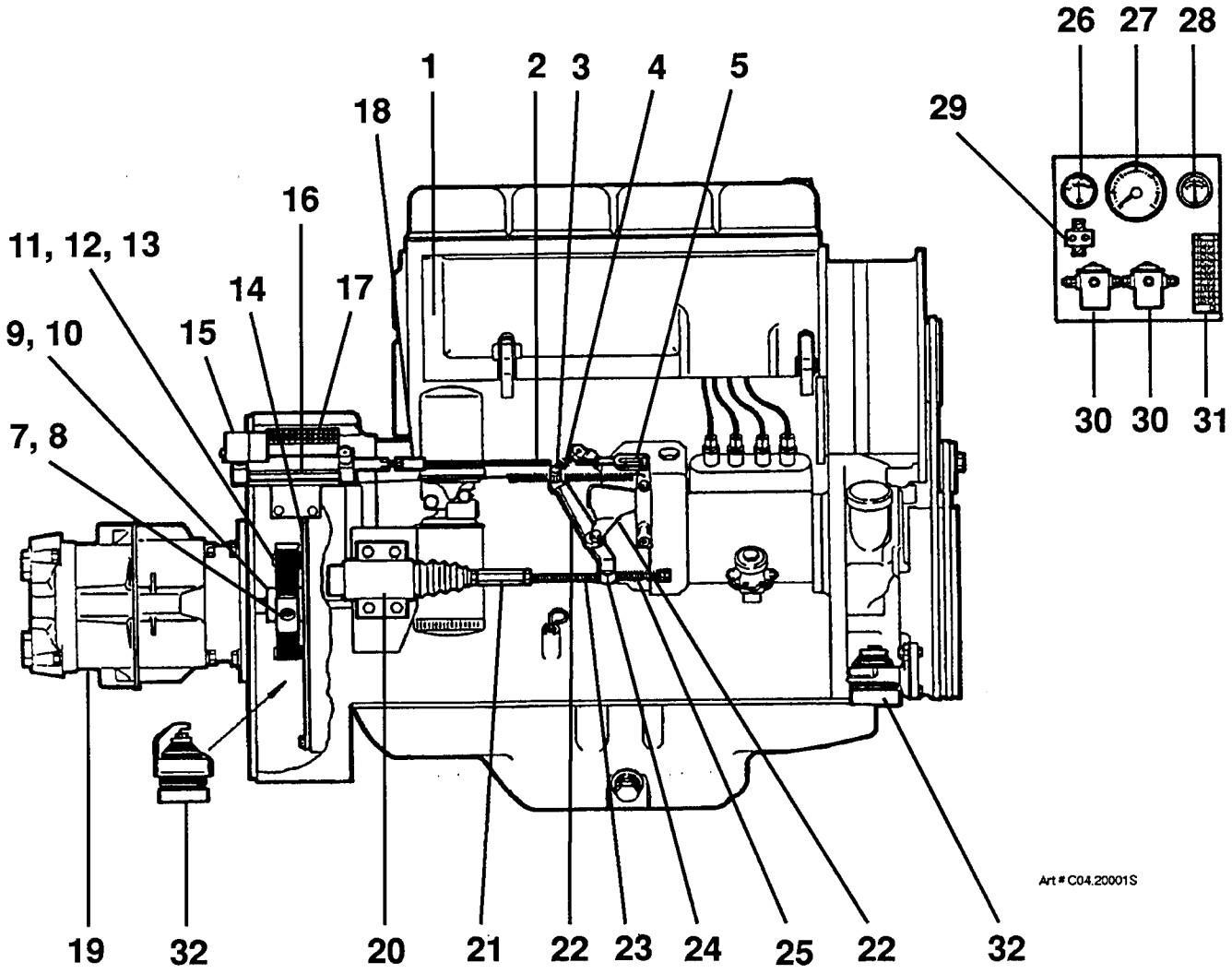



| TITLE | WATER-COOLED GAS ENGINE ASSEMBLY | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 09/07/90 | PART NO. 2097938 | PLATE NO. C04.18 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 09-008100 | | ENGINE, DIESEL (Deutz Model #F4L912) | 1 |
| 2 | | | ROD, THREADED | 1 |
| 3 | 09-019405 | | POST, HEX ADAPTER | 1 |
| 4 | 09-019406 | | SPRING, EXTENSION | 1 |
| 5 | | | CLEVIS, THROTTLE | 1 |
| 6 | | | COUPLING, PUMP | 1 |
| 7 | | | INSERT, RADIAL | 3 |
| 8 | | | SHOULDER SCREW, RADIAL INSERT | 3 |
| 9 | | | HUB, CYLINDRICAL | 1 |
| 10 | | | SCREW, SPLINE LOCK | 2 |
| 11 | | | INSERT, HYTREL | 1 |
| 12 | | | SHOULDER SCREW, HYTREL INSERT | 3 |
| 13 | | | PIN, AXIAL DRIVE | 3 |
| 14 | | | PLATE, ADAPTER | 1 |
| 15 | 09-000405 | | SOLENOID VALVE, THROTTLE ADVANCE | 1 |
| 16 | 09-000406 | | THROTTLE CYLINDER | 1 |
| | 09-000412 | | SEAL KIT, THROTTLE CYLINDER | 1 |
| 17 | 03-068000 | | BLOCK, TERMINAL | 1 |
| 18 | | | COUPLING | 1 |
| 19 | See index . . | D08.-- | PUMP, HYDRAULIC | 1 |
| 20 | 09-000404 | | SOLENOID, RACK | 1 |
| 21 | 09-019402 | | ROD, HEX (threaded) | 1 |
| 22 | 09-019407 | | LEVER ASSEMBLY, PIVOT | 1 |
| 23 | 09-019401 | | ROD, EXTENSION | 1 |
| 24 | 09-019403 | | SCREW, HEX | 1 |
| 25 | 09-019404 | | SPRING, COMPRESSION | 1 |
| 26 | 03-030400 | | AMMETER | 1 |
| 27 | 09-000407 | | TACHOMETER | 1 |
| 28 | 10-034200 | | GAUGE, OIL PRESSURE | 1 |
| 29 | 03-024100 | | BREAKER, CIRCUIT (10 Amp) | 1 |
| 30 | 03-051300 | | RELAY | 2 |
| 31 | 03-068000 | | BLOCK, TERMINAL | 1 |
| 32 | | | MOUNT, ENGINE | 4 |

| | |
|---|---|
| TITLE | DIESEL ENGINE ASSEMBLY, DEUTZ F4L912 |
| PLATE NO. C04.20 | **SIMON AERIALS INC.** REV. 24 SEP., 1993 |
| PART NO. 2098090 | |



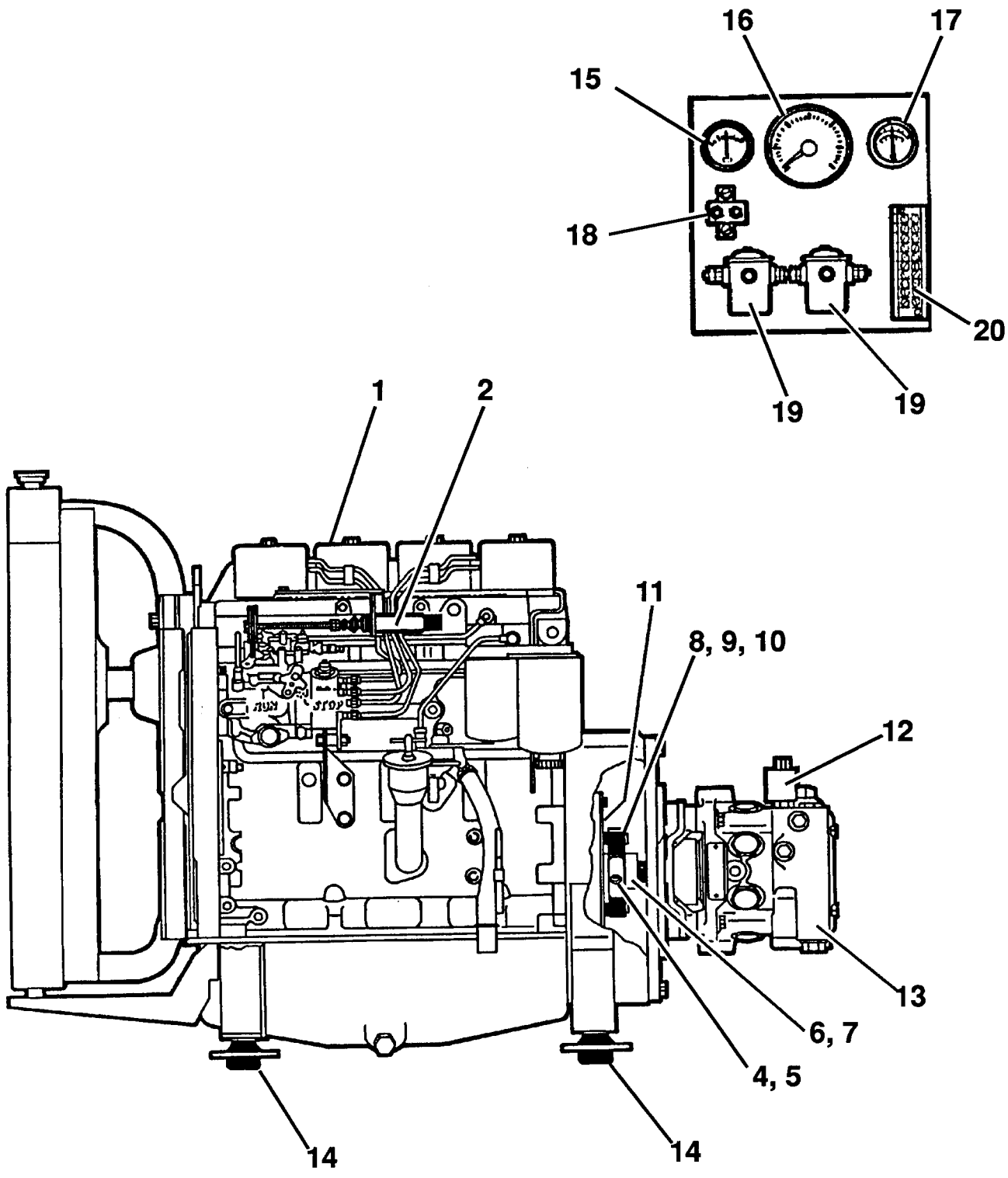

| TITLE | DIESEL ENGINE ASSEMBLY, DEUTZ F4L912 | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 24 SEP., 1993 | | PART NO. 2098090 | PLATE NO. C04.20 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 09-021700 | | ENGINE, DIESEL (Non-turbocharged) (Cummins #483.9-P) | 1 |
| | 09-021600 | | ENGINE, DIESEL (Turbocharged) (Cummins #483.9-PT) | 1 |
| 2 | | | SOLENOID, THROTTLE | 1 |
| 3 | 02-010300 | | COUPLING ASSEMBLY, PUMP | 1 |
| 4 | | | INSERT, RADIAL | 3 |
| 5 | | | SCREW, SHOULDER (Radial insert) | 3 |
| 6 | | | HUB, CYLINDRICAL | 1 |
| 7 | | | SCREW, SPLINE LOCK | 2 |
| 8 | | | INSERT, HYTREL | 1 |
| 9 | | | SCREW, SHOULDER (Hytrel insert) | 3 |
| 10 | | | PIN, AXIAL DRIVE | 3 |
| 11 | | | PLATE, ADAPTER | 1 |
| 12 | 01-013700 | | VALVE, SOLENOID (Pump unloading) | 1 |
| 13 | See index | D08.-- | PUMP, HYDRAULIC | 1 |
| 14 | 09-006500 | | MOUNT, MOTOR | 4 |
| 15 | 03-030400 | | AMMETER (50 Amp) | 1 |
| 16 | 09-000407 | | TACHOMETER | 1 |
| 17 | 10-034200 | | GAUGE, OIL PRESSURE | 1 |
| 18 | 03-024100 | | BREAKER, CIRCUIT (10 Amp) | 1 |
| 19 | 03-051300 | | RELAY (Single pole, single throw) | 2 |
| 20 | 03-068000 | | BLOCK, TERMINAL | 1 |
| 21 | 09-024400 | | SWITCH, OIL PRESSURE (not shown) | 1 |
| 22 | 09-024300 | | SWITCH, WATER TEMPERATURE SENDER (not shown) | 1 |

TITLE: ENGINE ASSEMBLY, CUMMINS DIESEL

PLATE NO. C04.22 | **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. 2098133

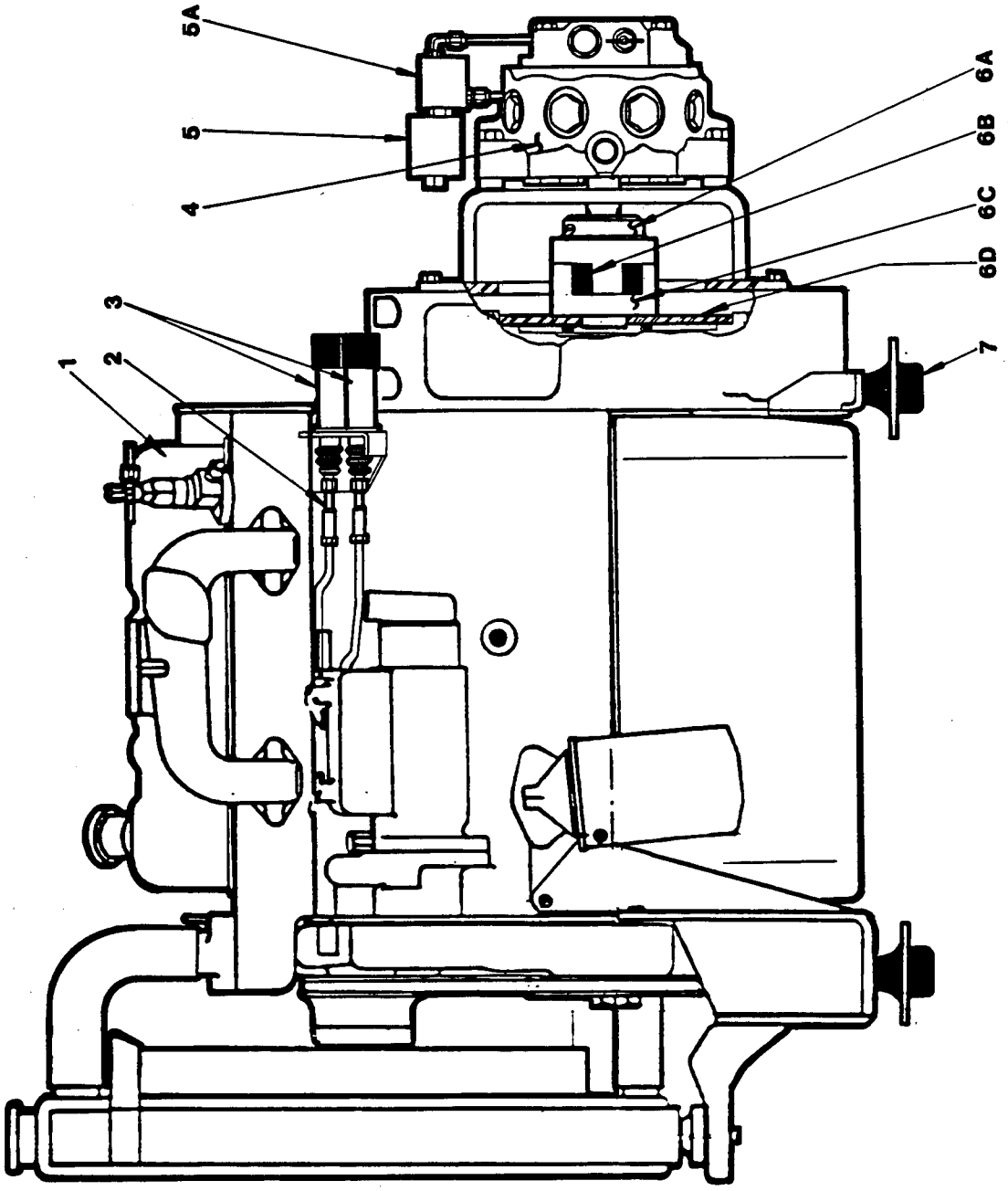



| TITLE | ENGINE ASSEMBLY, CUMMINS DIESEL | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 10/01/90 | PART NO. 2098133 | PLATE NO. C04.22 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 09-018100 | | DIESEL ENGINE, 4 CYL. (PERLINS MODEL #4.108) | 1 |
| 2 | 11-040007 | | TREADED COUPLER, 5/16 - 18 | 2 |
| 3 | 03-414500 | | SOLENOID (TROTTLE, RACK) | 2 |
| 4 | SEE INDEX | D8 | HYDRAULIC PUMP | 1 |
| 5 | 01-013700 | | SOLENOID VALVE, PUMP UNLOADING | 1 |
| 5A | 01-013900 | | SOLENOID VALVE BLOCK | 1 |
| 6 | 02-008100 | | PUMP COUPLING - COMPLETE | 1 |
| 6A | 02-008501 | | COUPLING BODY, PUMP HALF | 1 |
| 6B | 02-008101 | | SPIDER INSERT | 1 |
| 6C | 02-008503 | | COUPLING BODY, ENGINE HALF | 1 |
| 6D | | | FLYWHEEL FALNGE (FROM #02-008600 COUPLING) | 1 |
| 7 | 09-006500 | | MOTOR MOUNT | 4 |

| DESCRIPTION | PART NO. |
|---|---|
| **DIESEL ENGINE ASSEMBLY** | |

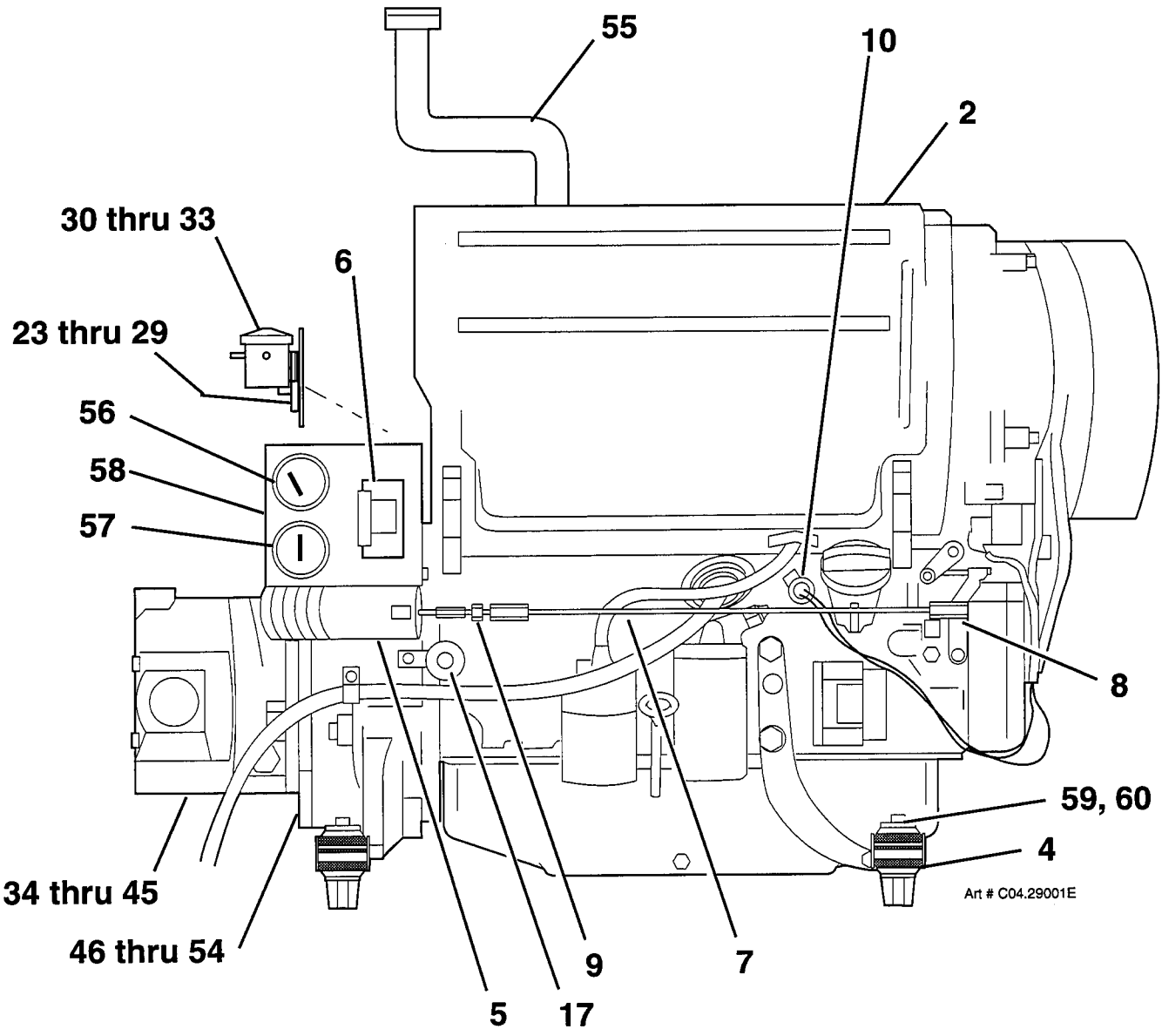



| DESCRIPTION | PART NO. |
| --- | --- |
| **DIESEL ENGINE ASSEMBLY** | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | ENGINE ASSEMBLY (Deutz Model F4L1011) | |
| | 3532270 | | with HPR 50 Pump (**not for use** with water glycol fluid) | 1 |
| | 3525660 | | with PAVC 65 Pump (**for use** with water glycol fluid) | 1 |
| 2 | 09-046300 | | ENGINE, DIESEL (Deutz Model F4L1011) | 1 |
| 3 | 09-044801 | | SOLENOID, FUEL SHUTDOWN (comes with engine) | 1 |
| 4 | - - - | | MOUNT, ENGINE (comes with engine) | 4 |
| 5 | 03-469400 | | SOLENOID, THROTTLE (does not include module) | 1 |
| 6 | 03-456803 | | MODULE, THROTTLE SOLENOID | 1 |
| 7 | 03-469402 | | ROD, LINKAGE | 1 |
| 8 | 03-469401 | | BALL JOINT (Straight) | 1 |
| 9 | 03-469405 | | BALL JOINT (90°) | 1 |
| 10 | | | SWITCH, OIL PRESSURE (comes with engine) | 1 |
| 11 | 2190310 | | BRACKET, MOUNTING (Oil pressure sending unit) | 1 |
| 12 | 07-003004 | | CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5) | 1 |
| 13 | 07-060014 | | WASHER, FLAT (1/4", SAE) | 2 |
| 14 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 1 |
| 15 | 06-074600 | | TEE, STRAIGHT/ PIPE THREAD ADAPTER (2 MRO-S) | 1 |
| 16 | 06-199300 | | FITTING, COMPRESSION (Straight) | 2 |
| 17 | 09-052200 | | SENDING UNIT, OIL PRESSURE | 1 |
| 18 | 05-081900 | | FUEL LINE (5/16") [Bulk item, order as needed. 9" (22.9 cm) needed this application] | A.R. |
| 19 | 09-004600 | | CLAMP, WORM (1/4" to 5/8") | 2 |
| 20 | 07-062016 | | WASHER, FLAT (3/8") | 2 |
| 21 | 06-084600 | | ELBOW, PIPE THREAD (2 DD-S) | 1 |
| 22 | 05-082200 | | OIL PRESSURE LINE (3/16") [Bulk item, order as needed. 16" (40.6 cm) needed this application] | A.R. |
| 23 | 2169790 | | BRACKET, TERMINAL STRIP MOUNTING | 1 |
| 24 | 07-005184 | | CAP SCREW, HEX HEAD (M10 x 25 mm, Grade 8.8) | 3 |
| 25 | 07-066006 | | WASHER, LOCK (10 mm) | 3 |
| 26 | 07-060016 | | WASHER, FLAT (3/8", SAE) | 3 |
| 27 | 03-068000 | | BLOCK, TERMINAL (10 station) | 1 |
| 28 | 07-011334 | | MACHINE SCREW, ROUND HEAD (#6 32 x 3/4") | 2 |
| 29 | 07-050007 | | NUT, STOP (#6-32, Grade 5) | 2 |
| 30 | 03-051300 | | RELAY (Single pole, single throw) | 1 |
| 31 | 07-003002 | | CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5) | 2 |
| 32 | 07-060014 | | WASHER, FLAT (1/4", SAE) | 2 |
| 33 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 2 |

| | | | | |
|---|---|---|---|---|
| TITLE | ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 1 OF 3) | | | |
| PLATE NO. | C04.29 | **SIMON AERIALS INC.** | REV. 27 JAN., 1994 | PART NO. |



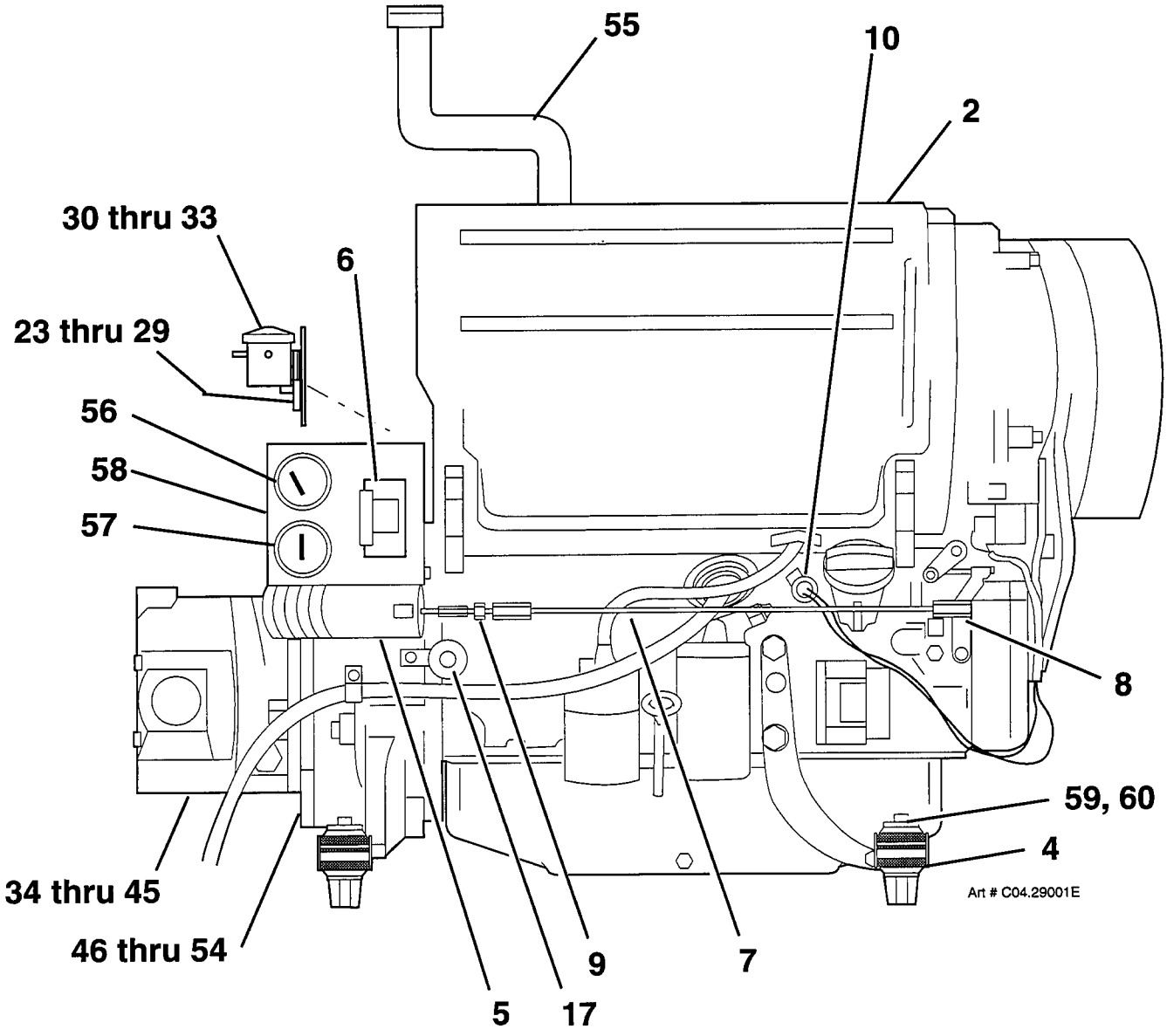

| TITLE | ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 1 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 27 JAN., 1994 | PART NO. | PLATE NO. C04.29 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 34 | See Index . . | D08.-- | PUMP, HYDRAULIC | 1 |
| 35 | 07-003126 | | CAP SCREW, HEX HEAD (5/8"-11 x 1-1/4", Grade 5) | 4 |
| 36 | 07-060021 | | WASHER, FLAT (5/8") | 4 |
| 37 | 07-065021 | | WASHER, HELICAL LOCK (5/8") | 4 |
| 38 | | | 90° FITTING, FLANGED | |
| | 06-195700 | | For HPR 50 pump (1-1/2" suction to 2" SAE) | 1 |
| 39 | 07-003087 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5) | 4 |
| 40 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 41 | 06-202100 | | FITTING, FLANGED (LI-16-16S-30) | 1 |
| 42 | 06-045600 | | 90° ELBOW, STRAIGHT THREAD (12-16 C50X-S) | 2 |
| 43 | 06-039300 | | ADAPTER, "O"-RING TO 37° (4 F50X-S) | 1 |
| 44 | 06-044800 | | 90° ELBOW, STRAIGHT THREAD (8 C50X-S) | 1 |
| 45 | 01-013700 | | VALVE, SOLENOID (2-way) (Pump unloading) | 1 |
| 46 | | | ADAPTER, PUMP | |
| | 02-011500 | | Use with HPR 50 Pump [1/2" (13 mm) thick]. SAE #5 (8 hole, 12-3/8" pilot) flywheel housing to "C" (2 hole, 5" pilot) pump mount | 1 |
| | 2165070 | | Use with PAVC 65 Pump [1.68" (43 mm) thick spacer]. SAE #5 (8 hole, 12-3/8" pilot) flywheel housing to "C" (2 hole, 5" pilot) pump mount | 1 |
| 47 | | | CAP SCREW, HEX HEAD | |
| | 07-005184 | | M10 x 25 mm, Grade 8.8 (with HPR 50 Pump) | 8 |
| | 07-005191 | | M10 x 60 mm, Grade 8.8 (with PAVC 65 Pump) | 8 |
| 48 | 07-066006 | | WASHER, LOCK (10 mm) | 8 |
| 49 | 03-074000 | | CABLE, GROUND (Black, 9-3/4" (25 cm) long] | 1 |

TITLE ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 2 OF 3)

| PLATE NO. | SIMON AERIALS INC. | PART NO. |
|---|---|---|
| C04.29 | REV. 27 JAN., 1994 | |

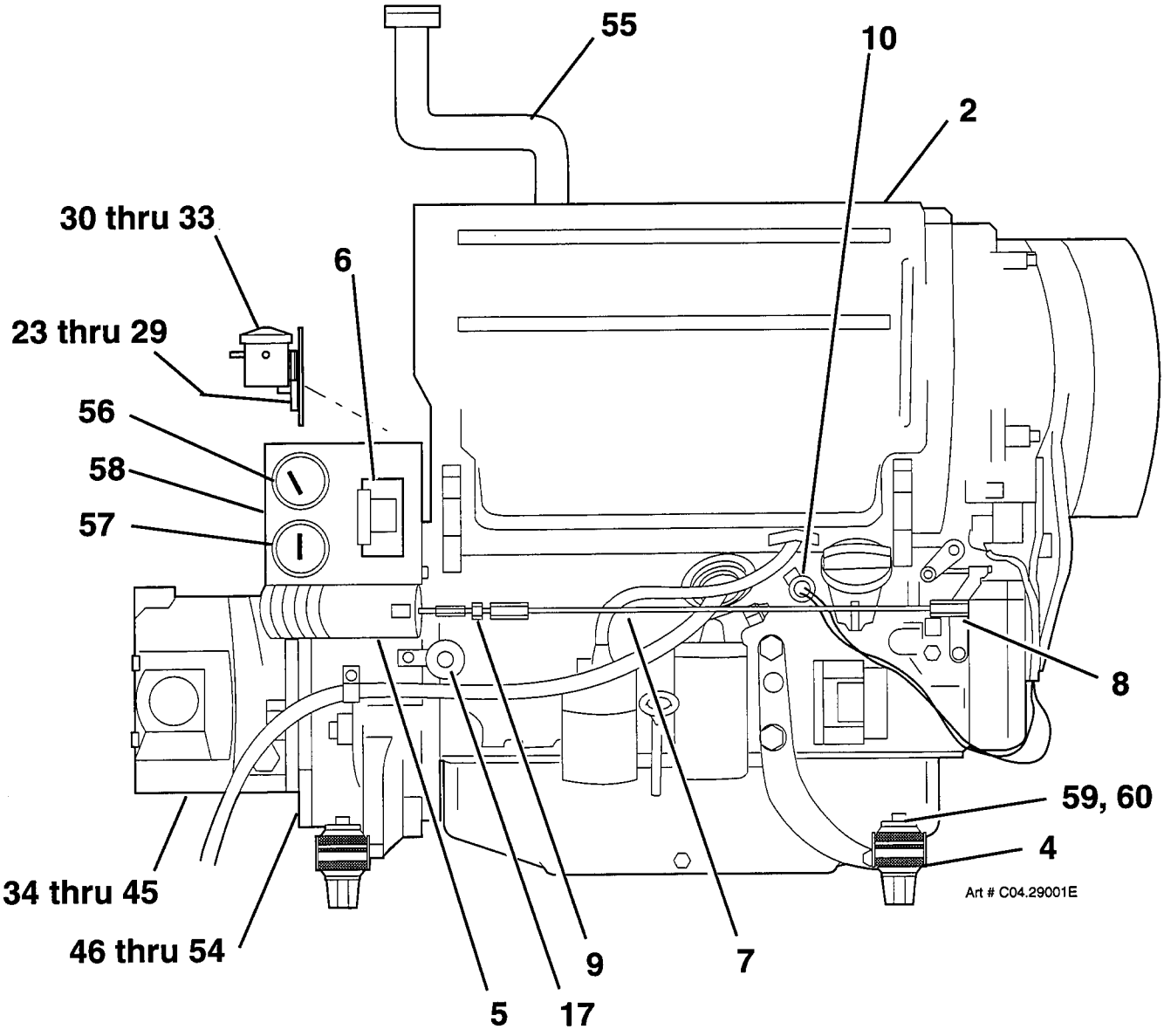



| | | | |
|---|---|---|---|
| TITLE | ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 2 OF 3) | | |
| **SIMON AERIALS INC.** | REV. 27 JAN., 1994 | PART NO. | PLATE NO. C04.29 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 50 | | | COUPLING ASSEMBLY, PUMP | |
| | 02-043700 | | • Used with 02-011500 Pump Adapter for HPR 50 Pump. (Replaces 02-033900) | 1 |
| | 02-033900 | | • **Obsolete.** Use 02-043700. 4 segment type, used with 02-011500 Pump Adapter for HPR 50 Pump. 6 hole, 8.5" pilot, 14 tooth spline | 1 |
| | 02-042000 | | • 3 segment type, used with PAVC 65 Pump. Consists of (1) hub & (1) adapter from couplings below. | 1 |
| 51 | 02-011400 | | COUPLING ASSEMBLY, PUMP (14 tooth spline) 3 segment type. Use hub portion of this coupling only, with Flywheel Adapter from Item 52. | 1 |
| 52 | 02-025600 | | COUPLING ASSEMBLY, PUMP 3 segment type (6 hole, 8.5" pilot, 13 tooth spline). Use flywheel adapter portion of this coupling only, with Hub from Item 51. | 1 |
| 53 | | | CAP SCREW, HEX HEAD | |
| | 07-005149 | | M8 x 25 mm, Grade 8.8 (for HPR 50 Pump) | 6 |
| | 07-005147 | | M8 x 16 mm, Grade 8.8 (for PAVC 65 Pump) | 6 |
| 54 | 07-066005 | | WASHER, LOCK (8 mm) | 6 |
| 55 | 09-056900 | | PIPE, EXHAUST | 1 |
| | | | The following items are used when gauges are not mounted on the ground control electrical box: | |
| 56 | 03-030400 | | AMMETER (50 Amp) | 1 |
| 57 | 10-034200 | | GAUGE, OIL PRESSURE (2-1/2" dial; with mounting bracket) | 1 |
| 58 | 2171050 | | PANEL, GAUGE | 1 |
| | | | The following items **are not** part of the Engine Assembly: | |
| 59 | 07-004078 | | CAP SCREW, HEX HEAD (7/16"-14 x 6-1/2", Grade 8) | 4 |
| 60 | 07-050017 | | NUT, HEX LOCK (7/16"-14) | 4 |

| TITLE | ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 3 OF 3) | | |
|---|---|---|---|
| PLATE NO. C04.29 | **SIMON AERIALS INC.** | REV. 27 JAN., 1994 | PART NO. |




| TITLE | ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 3 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 27 JAN., 1994 | PART NO. | PLATE NO. C04.29 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 3531160 | | ENGINE ASSEMBLY, DIESEL (Isuzu 4BD1 PW) | 1 |
| 2 | 09-053800 | | ENGINE, DIESEL (Isuzu 4BD1 PW) (83 HP [61.9 Kw] @ 2,800 RPM, liquid cooled 4 cyl.) | 1 |
| 3 | 09-052200 | | SENDER, OIL PRESSURE GAUGE (0-100 PSI) | 1 |
| 4 | | | ELEMENT, OIL FILTER (Isuzu part) | 1 |
| 5 | | | REGULATOR, VOLTAGE (Isuzu part) | 1 |
| 6 | 07-003001 | | CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5) | 2 |
| 7 | 07-065014 | | WASHER, HELICAL LOCK (1/4") | 2 |
| 8 | 07-060014 | | WASHER, FLAT (1/4", SAE) | 2 |
| 9 | 10-061200 | | CLAMP, LOOP (#12) | 1 |
| 10 | 02-037000 | | COUPLING (Star hub CK-100, 48-13-14 Tooth) | 1 |
| 11 | 02-036900 | | COUPLING (Element CK-100, SAE #10) | 1 |
| 12 | 07-003046 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4") | 8 |
| 13 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 8 |
| 14 | 02-019100 | | PLATE, PUMP MOUNTING (SAE 4C) | 1 |
| 15 | 07-003046 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4") | 12 |
| 16 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 12 |
| 17 | See Index . . | D08. - - | PUMP ASSEMBLY, HYDRAULIC | 1 |
| 18 | 07-004127 | | CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 8) | 4 |
| 19 | 07-065021 | | WASHER, HELICAL LOCK (5/8") | 4 |
| 20 | 07-060021 | | WASHER, FLAT (5/8") | 4 |
| 21 | 01-013700 | | VALVE, SOLENOID (2-way) | 1 |
| 22 | 06-195700 | | FITTING, FLANGED (1-1/2" suction to 2" SAE 90°) | 1 |
| 23 | 07-003087 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5) | 4 |
| 24 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 25 | 06-202100 | | FITTING, FLANGED (LI-16-16S-30) | 1 |
| 26 | 06-045600 | | 90° ELBOW, STRAIGHT THREAD (12-16 C50X-S) | 2 |
| 27 | 06-044700 | | 90° ELBOW, STRAIGHT THREAD (6-8 C50X-S) | 1 |
| 28 | 06-039300 | | ADAPTER, "O"-RING TO 37° (4 F50X-S) | 1 |
| 29 | 2199490 | | BRACKET, ENGINE REAR MOUNTING (Right) | 1 |
| | 2199500 | | BRACKET, ENGINE REAR MOUNTING (Left) | 1 |
| 30 | 07-003087 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5) | 8 |
| 31 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 8 |
| 32 | 2300410 | | BRACKET, ENGINE CONTROLS | 1 |
| 33 | 03-468700 | | STRIP, TERMINAL (14 station) | 1 |
| 34 | 07-011344 | | MACHINE SCREW, ROUND HEAD CROSS RECESS (#8-32 x 3/4", Grade 2) | 2 |
| 35 | 07-050009 | | NUT, LOCK (#8-32, Grade 5) | 2 |

**TITLE** ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 1 OF 3)

| PLATE NO. C04.35 | **SIMON AERIALS INC.** NEW 04 AUG., 1994 | PART NO. |
|---|---|---|

**THE ILLUSTRATION FOR THIS ENGINE IS NOT AVAILABLE AT THIS TIME**

| | | | |
|---|---|---|---|
| TITLE | ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 1 OF 3) | | |
| **SIMON AERIALS INC.** | NEW 04 AUG., 1994 | PART NO. | PLATE NO. C04.35 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 36 | 03-051300 | | RELAY (Single pole, single throw) | 1 |
| 37 | 07-011343 | | MACHINE SCREW, PAN HEAD (#8-32 x 1/2", Grade 2) | 1 |
| 38 | 07-050009 | | NUT, LOCK (#8-32, Grade 5) | 1 |
| 39 | 07-062009 | | WASHER, FLAT (#8) | 5 |
| 40 | 03-456900 | | SOLENOID, THROTTLE (with module) | |
| 41 | 03-456803 | | MODULE, TIMER | 1 |
| 42 | 09-016402 | | BALL JOINT (1/4"-28, straight) | 1 |
| 43 | 09-016403 | | BALL JOINT (1/4"-28, 90°) | 1 |
| 44 | 07-047114 | | NUT, JAM (1/4"-28, Grade 5) | 3 |
| 45 | 2300620 | | BRACKET, ENGINE MOUNTING (Front) | 1 |
| 46 | | | CAP SCREW, HEX HEAD (M10-1.25, short) | 6 |
| 47 | | | CAP SCREW, HEX HEAD (M10-1.25, long) | 2 |
| 48 | 07-066006 | | WASHER, LOCK (M10) | 8 |
| 49 | | | RADIATOR ASSEMBLY (Isuzu part) | 1 |
| 50 | | | HOSE, RADIATOR (UPPER) (Isuzu part) | 1 |
| 51 | | | HOSE, RADIATOR (LOWER) (Isuzu part) | 1 |
| 52 | | | SHROUD, FAN (Isuzu part) | 1 |
| 53 | | | GUARD, FAN (Isuzu part) | 1 |
| 54 | 2327640 | | SUPPORT, RADIATOR | 1 |
| 55 | 09-053500 | | MOUNT, RUBBER | 2 |
| 56 | 09-053600 | | MOUNT, RUBBER | 2 |
| 57 | 2300550 | | SUPPORT, RADIATOR | 2 |
| 58 | | | BRACKET, THROTTLE MOUNTING | 1 |
| 59 | | | BUSHING | 1 |
| 60 | | | ACTUATOR, THROTTLE | 1 |
| 61 | | | CAP SCREW, HEX HEAD | 8 |
| 62 | | | WASHER, FLAT | 8 |
| 63 | | | NUT, STOP | 8 |
| 64 | | | WASHER, FLAT | 4 |
| 65 | | | NUT, LUG | 4 |
| 66 | | | MUFFLER ASSEMBLY | 1 |
| 67 | 09-003000 | | CLAMP, MUFFLER ("U"-bolt, 2-1/2") | 2 |
| 68 | | | FILTER ASSEMBLY, AIR | 1 |
| 69 | | | ELEMENT, AIR FILTER | 1 |
| 70 | | | BAND, AIR CLEANER MOUNTING | 2 |
| 71 | | | BRACKET, AIR CLEANER (see also # 102) | 1 |
| 72 | | | HOSE, AIR INTAKE | 1 |

| | | | |
|---|---|---|---|
| TITLE | ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 2 OF 3) | | |
| PLATE NO. C04.35 | **SIMON AERIALS INC.** | NEW 04 AUG., 1994 | PART NO. |

**THE ILLUSTRATION FOR THIS ENGINE IS NOT AVAILABLE AT THIS TIME**

| | | | |
|---|---|---|---|
| TITLE | ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 2 OF 3) | | |
| **SIMON AERIALS INC.** | NEW 04 AUG., 1994 | PART NO. | PLATE NO. C04.35 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 73 | 03-087500 | | WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item, order as needed. 2 Ft [.6 M] needed here) | A.R. |
| 74 | 03-087600 | | WIRE, ELECTRICAL (#16 AWG, Black, stranded) (Bulk item, order as needed. 2 Ft [.6 M] needed here) | A.R. |
| 75 | 03-087800 | | WIRE, ELECTRICAL (#16 AWG, Red) (Bulk item, order as needed. 2 Ft [.6 M] needed here) | A.R. |
| 76 | 03-088300 | | WIRE, ELECTRICAL (#14 AWG, Blue) (Bulk item, order as needed. 50 Ft [15.2 M] needed here) | A.R. |
| 77 | 03-088400 | | WIRE, ELECTRICAL (#14 AWG, Black) (Bulk item, order as needed. 4 Ft [1.26 M] needed here) | A.R. |
| 78 | 03-455300 | | WIRE, ELECTRICAL (#10 AWG, Black, stranded) (Bulk item, order as needed. 1 Ft [.3 M] needed here) | A.R. |
| 79 | 03-457200 | | WIRE, ELECTRICAL (#10 AWG, Blue, stranded) (Bulk item, order as needed. 12 Ft [3.7 M] needed here) | A.R. |
| 80 | 03-466300 | | WIRE, ELECTRICAL (#10 AWG, Red, stranded) (Bulk item, order as needed. 8 Ft [2.4 M] needed here) | A.R. |
| 81 | 03-092200 | | COUPLING, INSULATED (Male, blue nylon, #14-16 AWG) | 5 |
| 82 | 03-092300 | | COUPLING, INSULATED (Female, blue nylon, 14-16 AWG) | 5 |
| 83 | 03-094600 | | TERMINAL, RING (Blue, #14-16 AWG, #10 stud) | 6 |
| 84 | 03-094800 | | TERMINAL, RING (Blue, #14-16 AWG, 3/8" stud) | 1 |
| 85 | 03-095400 | | TERMINAL, RING (Blue, #10-12 AWG, #10 stud) | 3 |
| 86 | 03-095600 | | TERMINAL, RING (Blue, #10-12 AWG, 1/4" stud) | 5 |
| 87 | 03-095700 | | TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud) | 9 |
| 88 | 03-091200 | | TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud) | 19 |
| 89 | 03-091700 | | TERMINAL, SPADE (Locking, #10-12 AWG, #6 stud) | 5 |
| 90 | 07-008356 | | CAP SCREW, SOCKET HEAD (#10-24 x 1-3/4", Grade 8) | 2 |
| 91 | 07-050011 | | NUT, LOCK (#10-24, Grade 2) | 2 |
| 92 | 07-003002 | | CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5) | 4 |
| 93 | 07-003004 | | CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5) | 2 |
| 94 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 6 |
| 95 | 07-060014 | | WASHER, FLAT (1/4", SAE) | 4 |
| 96 | 07-065014 | | WASHER, HELICAL LOCK (1/4") | 1 |
| 97 | 07-003087 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5) | 4 |
| 98 | 07-060018 | | WASHER, FLAT (1/2", SAE) | 4 |
| | | | The following items **are not** included as part of Engine Assembly 3531160: | |
| 99 | 09-018300 | | PRECLEANER (3" I.D.) | 1 |
| 100 | 09-021500 | | REDUCER, HUMP (2-3/4" to 3") | 1 |
| 101 | 09-041800 | | ELBOW, INTAKE (Rubber) (Deutz) | 1 |
| 102 | 2154230 | | BRACKET, AIR CLEANER | 1 |

**TITLE** ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 3 OF 3)

**PLATE NO.** C04.35 | **SIMON AERIALS INC.** NEW 04 AUG., 1994 | **PART NO.**

**THE ILLUSTRATION FOR THIS ENGINE IS NOT AVAILABLE AT THIS TIME**

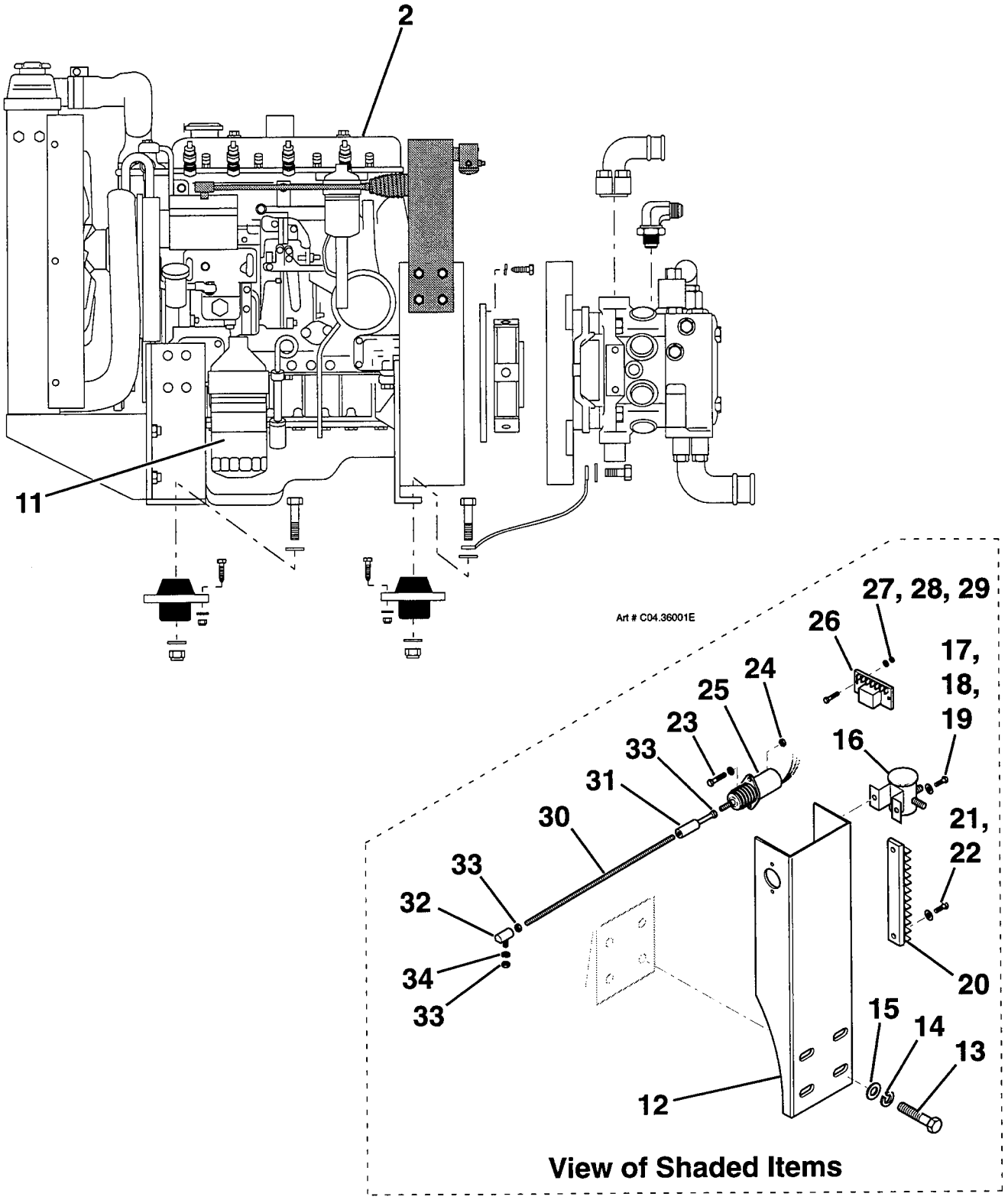
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|---|---|---|---|
| TITLE | ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 3 OF 3) | | |
| SIMON AERIALS INC. NEW 04 AUG., 1994 | | PART NO. | PLATE NO. C04.35 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | ENGINE ASSEMBLY, DIESEL (Detroit Diesel/ Perkins 4.236) | 1 |
| | Call Simon 353 7940 | | Standard version<br>With remote mounted radiator (Special application) | |
| 2 | 09-058000 | | ENGINE, DIESEL (Detroit Diesel/ Perkins 4.236) (70 HP [52.2 Kw] @ 2,800 RPM, liquid cooled 4 cyl.) | 1 |
| 3 | 09-058200 | | ALTERNATOR (12 Volt, 30 Amp, fully enclosed) | 1 |
| 4 | 09-058300 | | REGULATOR, ALTERNATOR | 1 |
| 5 | 09-058400 | | PULLEY, ALTERNATOR | 1 |
| 6 | 07-066005 | | WASHER, LOCK (8 mm) (Fan mounting) | 4 |
| 7 | 09-034000 | | SWITCH, COOLANT TEMPERATURE SENDING | 1 |
| 8 | 09-052200 | | SENDER, OIL PRESSURE GAUGE (0-100 PSI) | 1 |
| 9 | 06-081300 | | 45° STREET ELBOW (1/8 CD45-S) | 1 |
| 10 | 09-047800 | | SWITCH, OIL PRESSURE GAUGE (15 PSI, 1/8" NPT) | 1 |
| 11 | | | ELEMENT, OIL FILTER (Detroit Diesel/ Perkins part) | 1 |
| 12 | 215 8340 | | BRACKET, ACCESSORY PANEL | 1 |
| 13 | 07-003087 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5) | 4 |
| 14 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 15 | 07-060018 | | WASHER, FLAT (1/2", SAE) | 4 |
| 16 | 03-051300 | | RELAY (Single pole, single throw) | 1 |
| 17 | 07-003002 | | CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5) | 4 |
| 18 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 4 |
| 19 | 07-060014 | | WASHER, FLAT (1/4", SAE) | 4 |
| 20 | 03-068000 | | STRIP, TERMINAL (10 station) | 1 |
| 21 | 07-011334 | | MACHINE SCREW, ROUND HEAD CROSS RECESS (#6-32 x 3/4", Grade 2) | 2 |
| 22 | 07-050007 | | NUT, STOP (#6-32, Grade 5) | 2 |
| 23 | 07-003002 | | CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5) | 2 |
| 24 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 2 |
| 25 | 03-456800 | | SOLENOID, THROTTLE (with module) | |
| 26 | 03-456803 | | MODULE, TIMER | 1 |
| 27 | 07-008354 | | CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8) | 2 |
| 28 | 07-062009 | | WASHER, FLAT (#8) | 2 |
| 29 | 07-050011 | | NUT, LOCK (#10-24, Grade 2) | 2 |
| 30 | 11-008005 | | ROD, THREADED (1/4"-28, Grade 5) (3 Ft [.91 M] long piece. Cut to fit. 13" [.33 M] long piece needed here.) | 1 |
| 31 | 09-016402 | | BALL JOINT (1/4"-28, straight) | 1 |
| 32 | 09-016403 | | BALL JOINT (1/4"-28, 90°) | 1 |
| 33 | 07-047114 | | NUT, JAM (1/4"-28, Grade 5) | 3 |
| 34 | 07-065014 | | WASHER, HELICAL LOCK (1/4") | 1 |

TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 1 OF 4)

| PLATE NO. C04.36 | **SIMON AERIALS INC.** NEW 22 NOV., 1994 | PART NO. |
|---|---|---|




TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 1 OF 4)

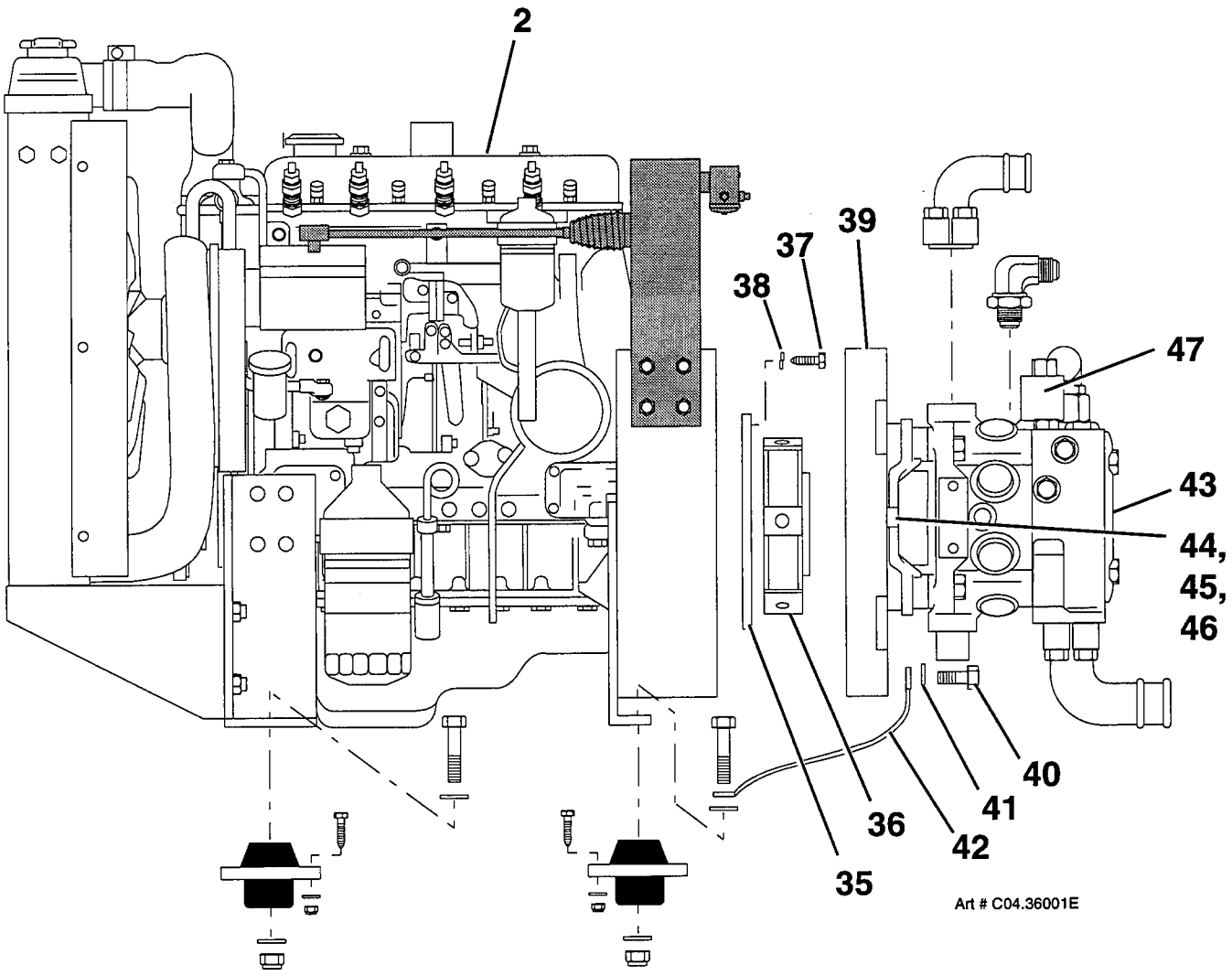
| SIMON AERIALS INC. NEW 22 NOV., 1994 | PART NO. | PLATE NO. C04.36 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 35 | 02-012800 | | ADAPTER PLATE, COUPLING | 1 |
| 36 | 02-012600 | | COUPLING (Model "1", size "30") | 1 |
| 37 | 07-008305 | | CAP SCREW, SOCKET HEAD (3/8"-24 x 1") | 8 |
| 38 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 8 |
| 39 | 210 8660 | | ADAPTER, PUMP MOUNTING | 1 |
| 40 | 07-003051 | | CAP SCREW, HEX HEAD (3/8"-16 x 2-1/2") | 12 |
| 41 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 12 |
| 42 | 03-074000 | | CABLE, GROUND (Black, 9-3/4" [25 cm] long, 3/8" lugs) | |
| 43 | See Index . . | D08. - - | PUMP ASSEMBLY, HYDRAULIC | 1 |
| 44 | 07-004127 | | CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 8) | 4 |
| 45 | 07-065021 | | WASHER, HELICAL LOCK (5/8") | 4 |
| 46 | 07-060021 | | WASHER, FLAT (5/8") | 4 |
| 47 | 01-013700 | | VALVE, SOLENOID (2-way) | 1 |
| 48 | 06-196900 | | 90° FITTING, SUCTION (Flanged, 2" to 2") (ORFC 32-90) | 1 |
| 49 | 07-003086 | | CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5) | 4 |
| 50 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 51 | 06-202100 | | FITTING, FLANGED (LI-16-16S-30) (obsolete, replaced by 06-213800 and 06-213900) | 1 |
| | 06-213900 | | STEM, ADAPTER (with kit 06-213800, replaces 06-202100) | 1 |
| 52 | 06-213800 | | FLANGE/ ADAPTER KIT (includes two flange halves and mounting hardware) (with stem 06-213900, replaces 06-202100) | 1 |
| 53 | 06-214300 | | 90° STEM, HOSE (1-1/2" dia. hose, 2" flange) | 1 |
| 54 | 06-214400 | | FLANGE SET (2") (includes two flange halves and mounting hardware) | 1 |
| 55 | | | 90° STEM, HOSE (16 FL 5K - 12 MJ 90°) | 1 |
| 56 | | | FLANGE SET (16 CFH-S) (includes two flange halves and mounting hardware) | 1 |
| 57 | 06-045600 | | 90° ELBOW, STRAIGHT THREAD (12-16 C50X-S) | 2 |
| 58 | 06-044700 | | 90° ELBOW, STRAIGHT THREAD (6-8 C50X-S) | 1 |
| 59 | 06-039300 | | ADAPTER, "O"-RING TO 37° (4 F50X-S) | 1 |
| 60 | 06-074600 | | TEE (1/8 MRO-S) | 1 |
| 61 | 10-242800 | | TUBING (Copper, 5/16" dia., .032" wall) (Bulk item, order as needed. 6" [152 mm] needed here) | A.R. |

TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 2 OF 4)

| PLATE NO. C04.36 | SIMON AERIALS INC. NEW 22 NOV., 1994 | PART NO. |
|---|---|---|




TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 2 OF 4)

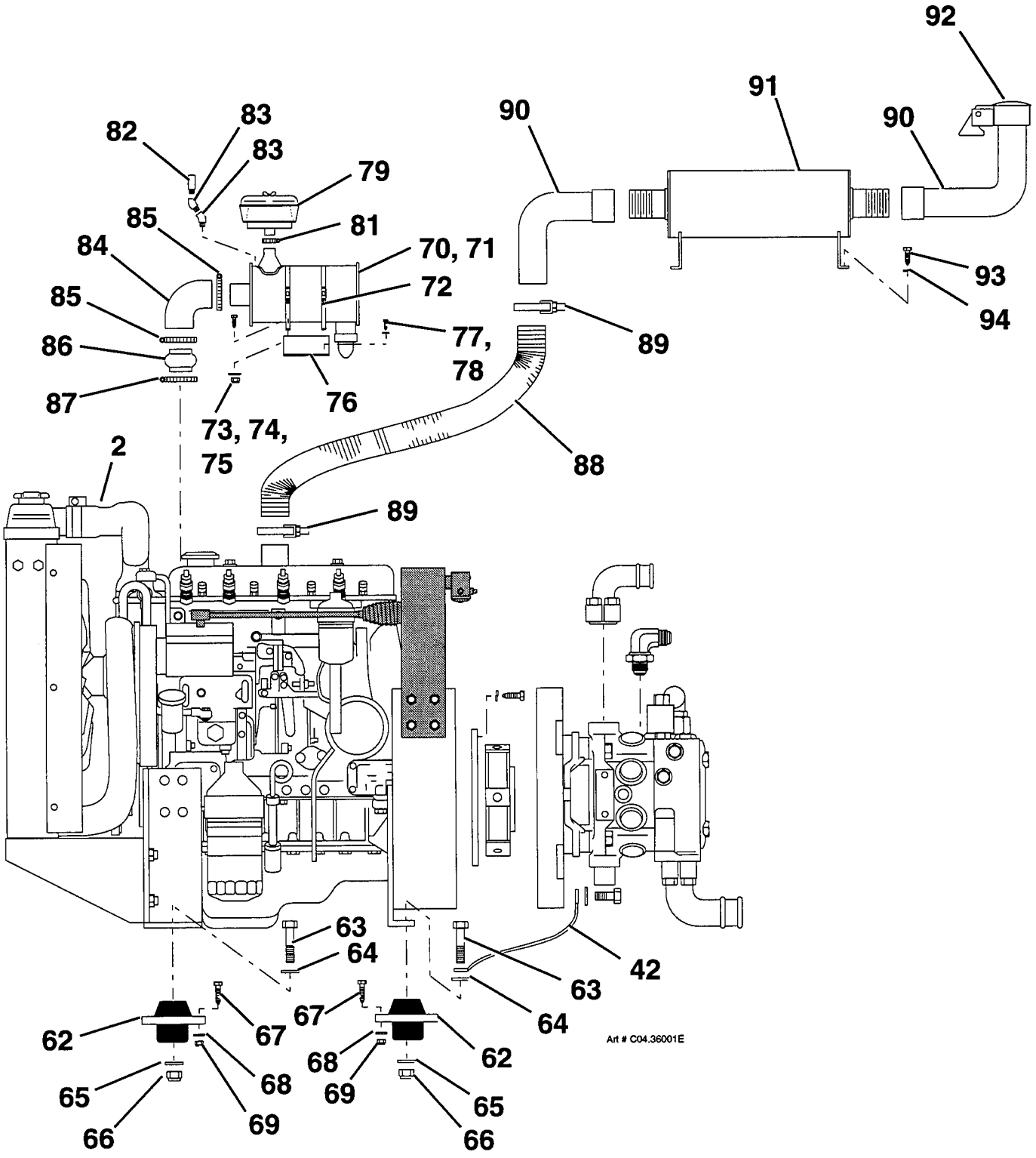
| SIMON AERIALS INC. NEW 22 NOV., 1994 | PART NO. | PLATE NO. C04.36 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | The following items **are not** part of the Engine Assembly: | |
| 62 | 09-006500 | | MOUNT, ENGINE | 4 |
| 63 | | | CAP SCREW, HEX HEAD | 4 |
| 64 | | | WASHER, FLAT | 4 |
| 65 | | | WASHER, FLAT (SAE) | 8 |
| 66 | | | NUT, HEX LOCK | 4 |
| 67 | | | CAP SCREW, HEX HEAD | 8 |
| 68 | | | WASHER, FLAT | 8 |
| 69 | | | NUT, HEX LOCK | 8 |
| 70 | 09-007000 | | AIR CLEANER ASSEMBLY (8" [203 mm] dia.) | 1 |
| 71 | | | ELEMENT, AIR FILTER | 1 |
| 72 | 09-003400 | | BAND, MOUNTING (8" dia.) | 2 |
| 73 | | | SCREW | 4 |
| 74 | | | NUT, LOCK | 4 |
| 75 | | | WASHER, FLAT | 4 |
| 76 | | | BRACKET, AIR CLEANER | 2 |
| 77 | | | SCREW, SELF-TAPPING | 4 |
| 78 | | | WASHER, FLAT | 4 |
| 79 | 09-007100 | | PRE-CLEANER (3-3/4" [95 mm] dia.) | 1 |
| 80 | 09-036000 | | ELBOW (2-1/2" x 2-1/2") | 2 |
| 81 | | | CLAMP | 1 |
| 82 | 09-009900 | | INDICATOR, AIR FILTER SERVICE (20") | 1 |
| 83 | 06-081300 | | 45° STREET ELBOW (1/8 CD45-S) | 1 |
| 84 | 09-003500 | | ELBOW (Rubber, 3" I.D.) | 1 |
| 85 | | | CLAMP, WORM | 2 |
| 86 | 09-021500 | | REDUCER, HUMP (2-3/4" to 3") | 1 |
| 87 | | | CLAMP, WORM | 1 |
| 88 | 09-021300 | | TUBE, FLEX (2-1/2" I.D. Stainless steel) (Bulk item, order as needed. 3 Ft [.91 M] needed here) | A.R. |
| 89 | 09-003000 | | CLAMP, MUFFLER (2-1/2", "U" bolt, universal) | 2 |
| 90 | 233 7870 | | ELBOW, EXHAUST | 2 |
| 91 | 09-040000 | | MUFFLER | 1 |
| 92 | 09-009400 | | CAP, RAIN (2-1/2") | 1 |
| 93 | | | SCREW, SELF-TAPPING | 4 |
| 94 | | | WASHER, FLAT | 4 |
| 95 | 05-009900 | | HOSE, SUCTION (32 G4H) (Bulk item, order as needed. 3 Ft [.91 M] needed here) | A.R. |
| 96 | 05-081900 | | HOSE, FUEL LINE (5/16" I.D.) (Bulk item, order as needed. 16 Ft [4.9 M] needed here) | A.R. |
| 97 | 05-084700 | | HOSE, FUEL LINE (1/8" I.D.) (Bulk item, order as needed. 20 Ft [6.1 M] needed here) | A.R. |

TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 3 OF 4)

| PLATE NO. C04.36 | SIMON AERIALS INC. NEW 22 NOV., 1994 | PART NO. |
|---|---|---|




TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 3 OF 4)

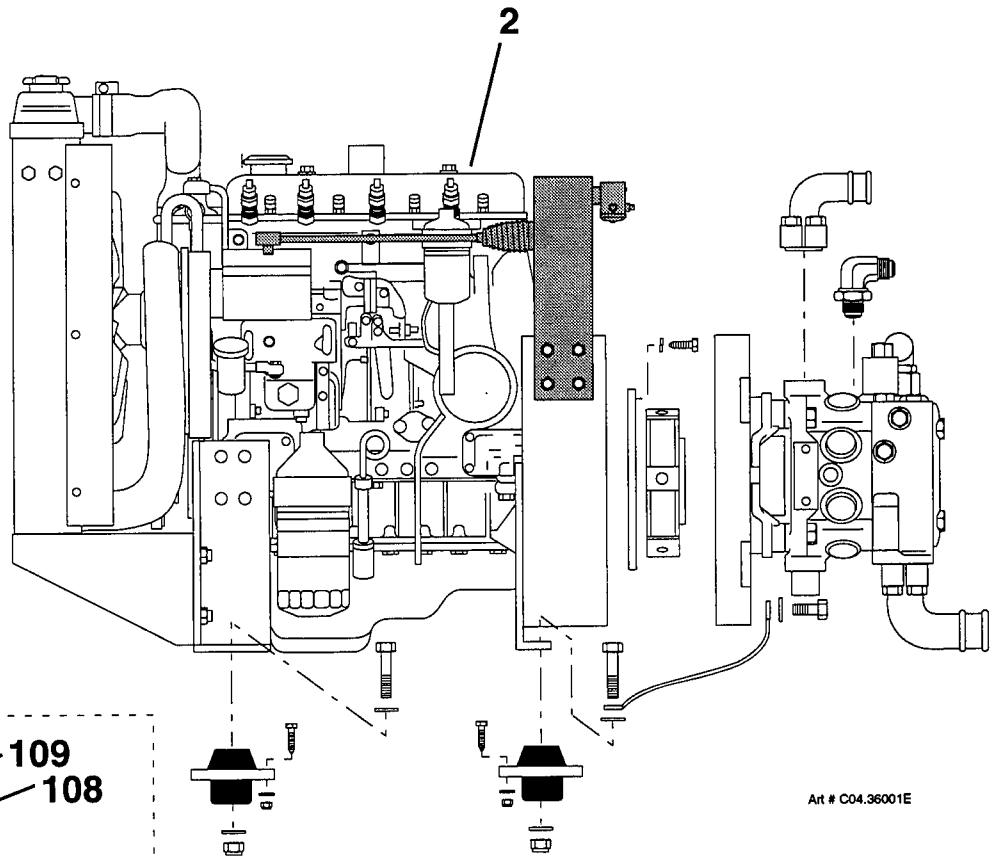
| SIMON AERIALS INC. NEW 22 NOV., 1994 | PART NO. | PLATE NO. C04.36 |
|---|---|---|

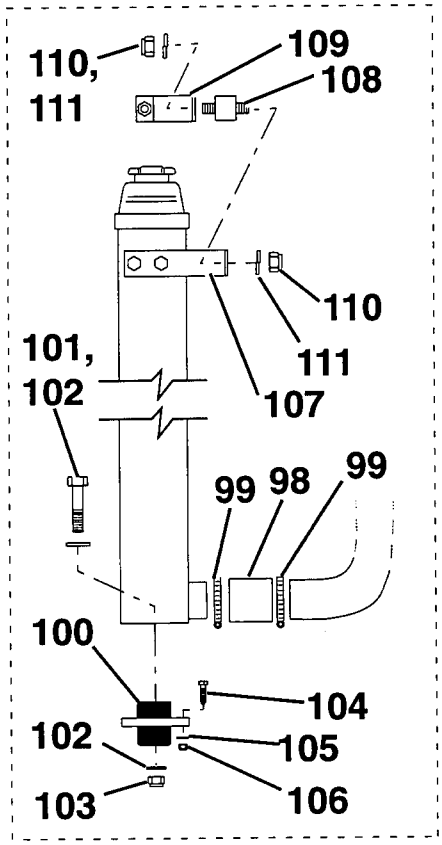
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | **The following items are used when the optional remote mounted radiator is specified:** | |
| 98 | 09-058600 | | HOSE, RADIATOR (2" I.D.) (Bulk item, order as needed. 2.04" [.91 M} needed this application) | A.R. |
| 99 | 09-008500 | | CLAMP, HOSE (3-1/2") | 4 |
| 100 | | | CUSHION, RADIATOR (Lower) | 2 |
| 101 | | | CAP SCREW, HEX HEAD | 2 |
| 102 | | | WASHER, FLAT (3/8") | 2 |
| 103 | | | NUT, HEX LOCK (3/8"-16, Grade 5) | 2 |
| 104 | | | CAP SCREW, HEX HEAD | 4 |
| 105 | | | WASHER, FLAT (3/8") | 4 |
| 106 | | | NUT, HEX LOCK (3/8"-16, Grade 5) | 4 |
| 107 | | | BRACKET, RADIATOR (Upper) | 2 |
| 108 | | | CUSHION, RADIATOR (Upper) | 2 |
| 109 | | | BRACKET, RADIATOR CUSHION (Upper) | 2 |
| 110 | | | NUT, HEX | 4 |
| 111 | | | WASHER, HELICAL LOCK | 4 |
| | | | **The following hardware items may be used:** | |
| 112 | 03-087500 | | WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item) | A.R. |
| 113 | 03-087600 | | WIRE, ELECTRICAL (#16 AWG, Black, stranded) (Bulk item) | A.R. |
| 114 | 03-087800 | | WIRE, ELECTRICAL (#16 AWG, Red) (Bulk item) | A.R. |
| 115 | 03-088300 | | WIRE, ELECTRICAL (#14 AWG, Blue) (Bulk item) | A.R. |
| 116 | 03-088400 | | WIRE, ELECTRICAL (#14 AWG, Black) (Bulk item) | A.R. |
| 117 | 03-455300 | | WIRE, ELECTRICAL (#10 AWG, Black, stranded) (Bulk item) | A.R. |
| 118 | 03-457200 | | WIRE, ELECTRICAL (#10 AWG, Blue, stranded) (Bulk item) | A.R. |
| 119 | 03-466300 | | WIRE, ELECTRICAL (#10 AWG, Red, stranded) (Bulk item) | A.R. |
| 120 | 03-092200 | | COUPLING, INSULATED (Male, blue nylon, #14-16 AWG) | 5 |
| 121 | 03-092300 | | COUPLING, INSULATED (Female, blue nylon, 14-16 AWG) | 5 |
| 122 | 03-094600 | | TERMINAL, RING (Blue, #14-16 AWG, #10 stud) | 6 |
| 123 | 03-094800 | | TERMINAL, RING (Blue, #14-16 AWG, 3/8" stud) | 1 |
| 124 | 03-095400 | | TERMINAL, RING (Blue, #10-12 AWG, #10 stud) | 3 |
| 125 | 03-095600 | | TERMINAL, RING (Blue, #10-12 AWG, 1/4" stud) | 5 |
| 126 | 03-095700 | | TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud) | 9 |
| 127 | 03-091200 | | TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud) | 19 |
| 128 | 03-091700 | | TERMINAL, SPADE (Locking, #10-12 AWG, #6 stud) | 5 |

**TITLE** ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 4 OF 4)

| PLATE NO. | | PART NO. |
|---|---|---|
| C04.36 | **SIMON AERIALS INC.** NEW 22 NOV., 1994 | |




**With Remote Mounted Radiator**

TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 4 OF 4)

| SIMON AERIALS INC. | NEW 22 NOV., 1994 | PART NO. | PLATE NO. C04.36 |
|---|---|---|---|

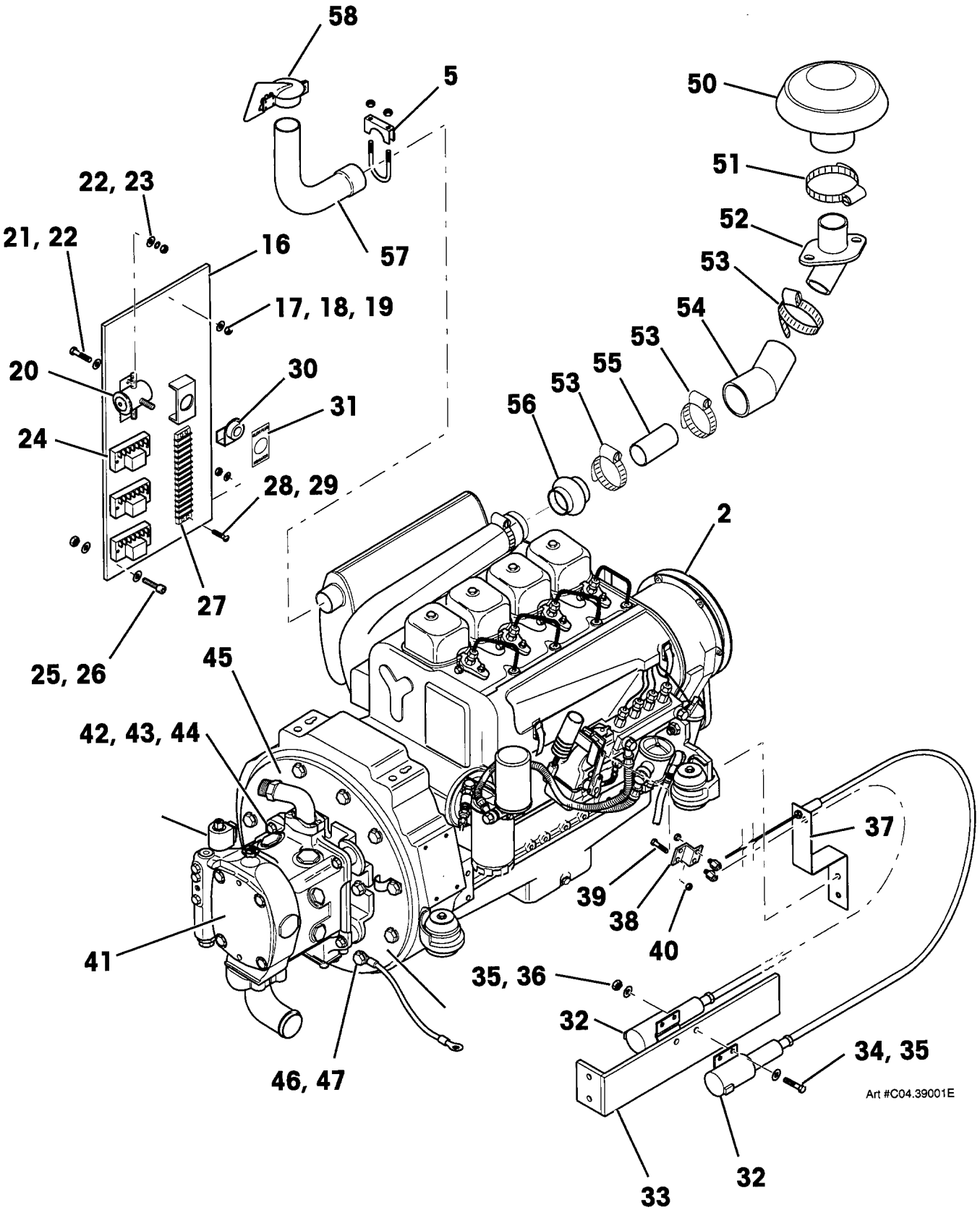
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | ENGINE ASSEMBLY (Deutz Model F4L 912 with HPR 50 Pump) | 1 |
| 2 | 09-032800 | | ENGINE, DIESEL (Deutz Model F4L 912) | 1 |
| 3 | - - - | | FITTING, OIL PRESSURE (comes with engine) | 1 |
| 4 | - - - | | SWITCH, OIL PRESSURE (comes with engine) | 1 |
| 5 | - - - | | CLAMP, MUFFLER (comes with engine) | 1 |
| 6 | 06-074600 | | TEE, STRAIGHT/ PIPE THREAD ADAPTER (1/8 MRO-S) | 1 |
| 7 | 09-052200 | | SENDING UNIT, OIL PRESSURE | 1 |
| 8 | 06-202600 | | FITTING, BANJO (M14, female thread) | 1 |
| 9 | 06-198700 | | FITTING, COMPRESSION (Straight, 3/16" tube to 1/4" NPT) | 1 |
| 10 | 06-202700 | | BOLT, BANJO (M14) | 1 |
| 11 | 06-202800 | | WASHER, BANJO BOLT (M14) | 2 |
| 12 | | | FITTING, BANJO | 1 |
| 13 | | | FITTING, COMPRESSION | 1 |
| 14 | 06-201500 | | BOLT, BANJO (M18) | 1 |
| 15 | | | WASHER, BANJO BOLT | 2 |
| 16 | 235 2040 | | PANEL, ENGINE ACCESSORY | 1 |
| 17 | | | SPACER | 4 |
| 18 | | | WASHER, FLAT | 4 |
| 19 | | | NUT, STOP | 4 |
| 20 | 03-051300 | | RELAY (Single pole, single throw, 12 Volt DC, continuous duty) | 1 |
| 21 | 07-003002 | | CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5) | 2 |
| 22 | 07-060014 | | WASHER, FLAT (1/4", SAE) | 2 |
| 23 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 2 |
| 24 | 03-456803 | | MODULE, THROTTLE SOLENOID | 2 |
| 25 | 07-008310 | | CAP SCREW, SOCKET HEAD (#10-32 x 3/4", Grade 8) | 4 |
| 26 | 07-040111 | | NUT, STOP (#10-32, Grade 5) | 4 |
| 27 | 03-068000 | | BLOCK, TERMINAL (10 station) | 1 |
| 28 | 07-011334 | | MACHINE SCREW, ROUND HEAD (#6 32 x 3/4") | 2 |
| 29 | 07-050007 | | NUT, STOP (#6-32, Grade 5) | 2 |
| 30 | | | LAMP, GLOW PLUG INDICATOR | 1 |
| 31 | | | DECAL, "GLOW PLUG INDICATOR" | 1 |
| 32 | 03-736200 | | SOLENOID (includes cable end hardware) | 2 |
| 33 | | | BRACKET, SOLENOID MOUNTING | 1 |
| 34 | | | CAP SCREW, HEX HEAD | 4 |
| 35 | | | WASHER, FLAT | 8 |
| 36 | | | NUT, LOCK | 4 |
| 37 | 236 2990 | | BRACKET, THROTTLE CABLE MOUNTING | 1 |
| 38 | 236 3000 | | BRACKET, THROTTLE ARM | 1 |
| 39 | | | CAP SCREW, HEX HEAD | 2 |
| 40 | | | NUT, LOCK | 2 |

TITLE: ENGINE ASSEMBLY, DEUTZ F4L 912 DIESEL

SECTION C04. | PLATE NO. 39 | PAGE 01 | REV. - | DATED 10 OCT., 1996 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172




| | | | | | | |
|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE | ENGINE ASSEMBLY, DEUTZ F4L 912 DIESEL | | | | |
| | PART NO. | REV. - | DATED 10 OCT., 1996 | SECTION C04. | PLATE NO. 39 | PAGE 01 |

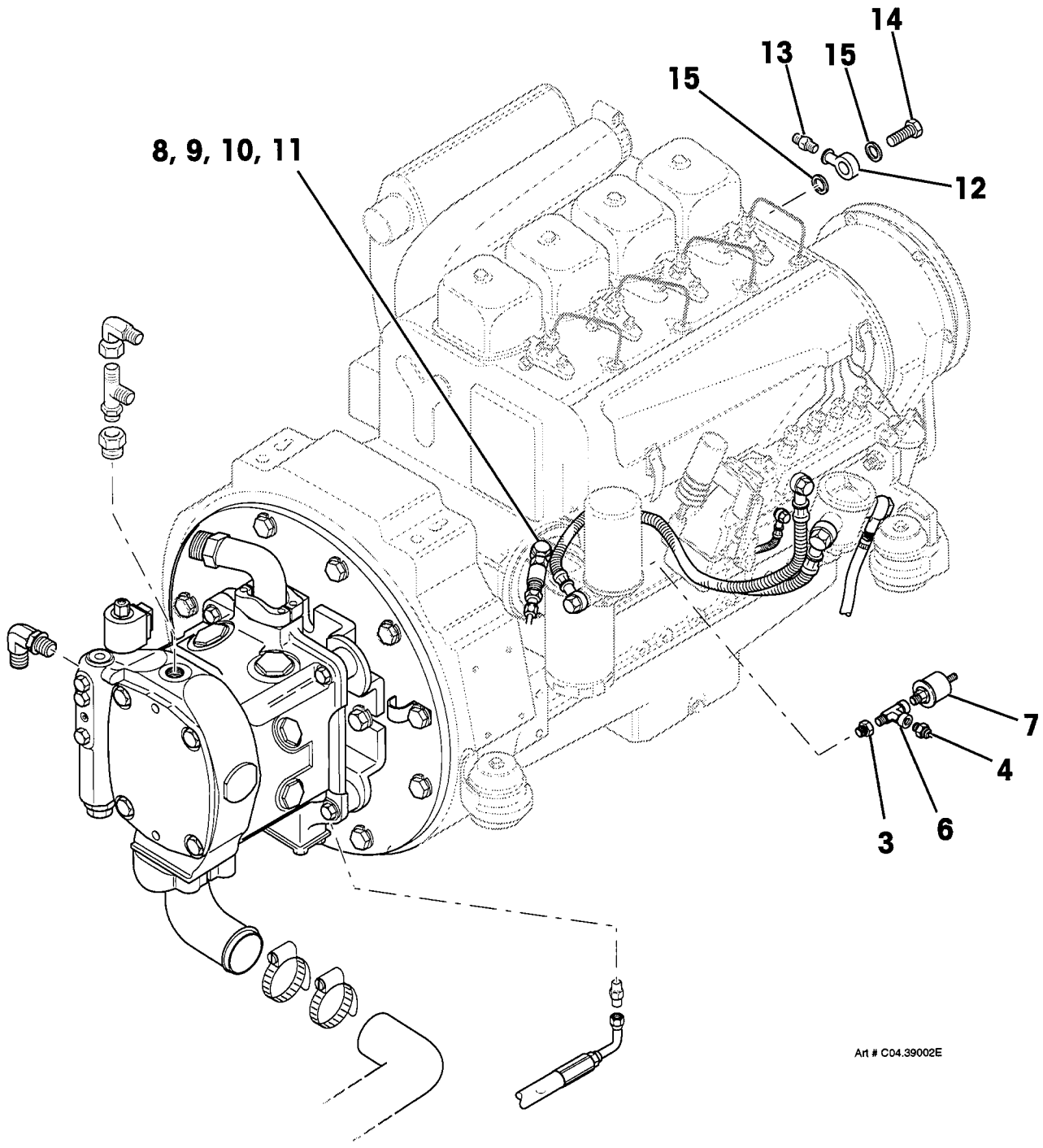
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | ENGINE ASSEMBLY (continued) | |
| 41 | See Index . . | D08. - - | PUMP, HYDRAULIC (HPR 50) | 1 |
| 42 | 07-004127 | | CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 8) | 4 |
| 43 | 07-060021 | | WASHER, FLAT (5/8") | 4 |
| 44 | 07-065021 | | WASHER, HELICAL LOCK (5/8") | 4 |
| 45 | 02-019100 | | ADAPTER, PUMP (1/2" [13 mm] thick). SAE #3 (12 hole, 16-1/8" pilot) flywheel housing to "C" (2 hole, 5" pilot) pump mount | 1 |
| 46 | 07-093700 | | CAP SCREW, HEX HEAD (M10-1.5 x 30 mm, Grade 8.8) | 12 |
| 47 | 07-066006 | | WASHER, LOCK (10 mm) | 12 |
| 48 | | | FLANGE, PUMP COUPLING | 1 |
| 49 | | | HUB, PUMP COUPLING | 1 |
| | | | The following items **are not** included with the Engine Assembly: | |
| 50 | | | AIR CLEANER | 1 |
| 51 | | | CLAMP, HOSE (Worm type) | 1 |
| 52 | | | FLANGE, MOUNTING | 1 |
| 53 | | | CLAMP, HOSE (Worm type) | 3 |
| 54 | | | ELBOW, RUBBER | 1 |
| 55 | | | TUBE, STEEL | A.R. |
| 56 | | | REDUCER, HUMP | 1 |
| 57 | 09-041600 | | PIPE, EXHAUST | 1 |
| 58 | 10-114400 | | CAP, RAIN (1-7/8") | 1 |

TITLE: ENGINE ASSEMBLY, DEUTZ F4L 912 DIESEL

SECTION C04. | PLATE NO. 39 | PAGE 02 | REV. - | DATED 10 OCT., 1996 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



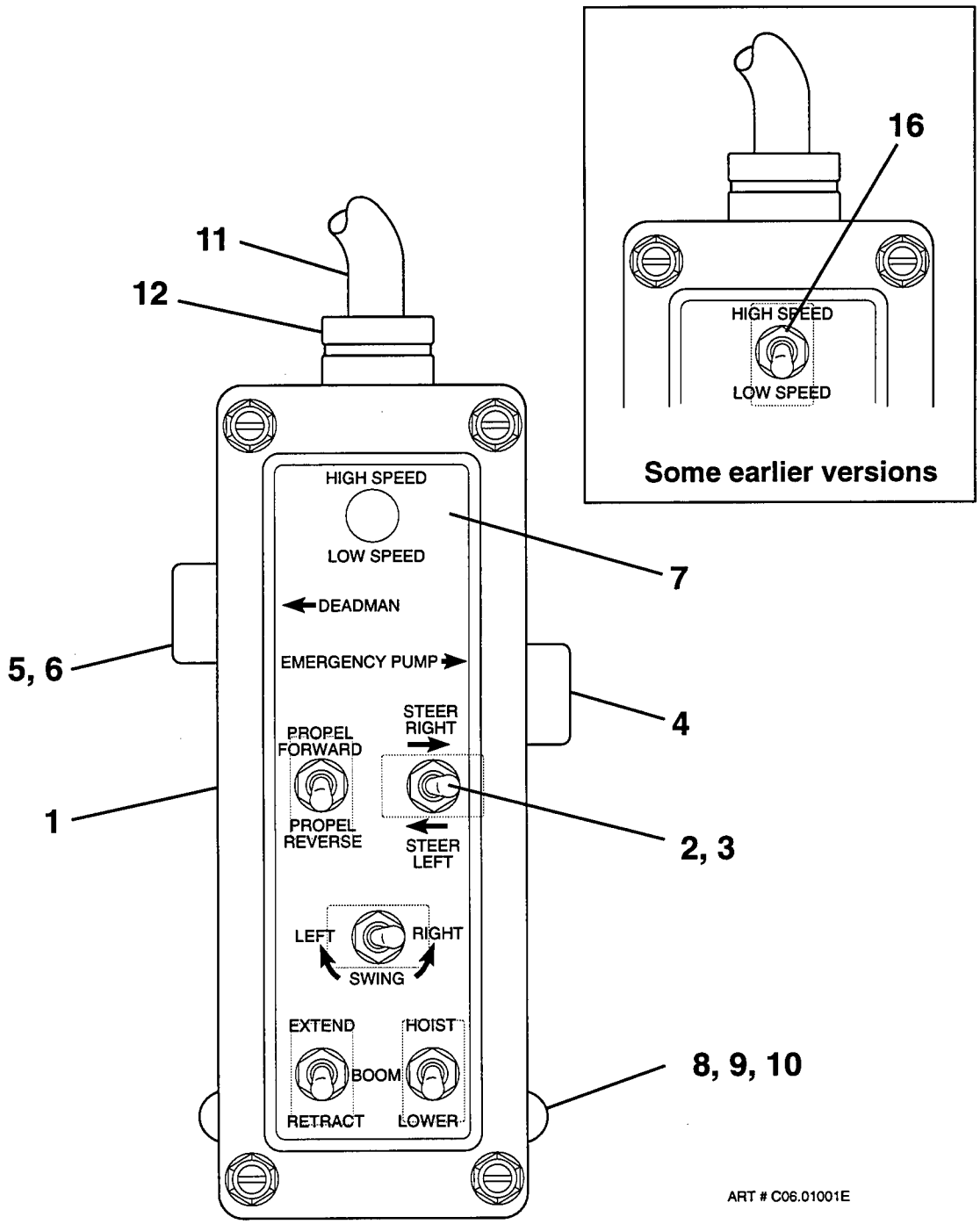

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Fax 414-355-3172

| TITLE | | | | | |
|---|---|---|---|---|---|
| ENGINE ASSEMBLY, DEUTZ F4L 912 DIESEL | | | | | |
| PART NO. | REV. - | DATED 10 OCT., 1996 | SECTION C04. | PLATE NO. 39 | PAGE 02 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | REMOTE CONTROL PENDANT ASSEMBLY | 1 |
| | 350 2251 | | Earlier version, with 10 Ft (3.05 M) long, 24 conductor cable | |
| | 353 4460 | | Later version, with 20 Ft (6.10 M) long, 19 conductor cable. | |
| 1 | | | BOX, CONTROL (includes cover) | 1 |
| | 205 6098 | | Drilled for switch installation | |
| | 03-063000 | | Undrilled box | |
| 2 | 03-020500 | | SWITCH, TOGGLE (Double pole, double throw) | 5 |
| 3 | 03-497900 | | SEAL, PANEL (optional) | 5 |
| 4 | 03-020300 | | BUTTON, PUSH (Single pole, single throw) | 1 |
| 5 | 03-021200 | | BUTTON, PUSH (Two position, "push/ pull") | 1 |
| 6 | 03-025000 | | BLOCK, CONTACT (Normally closed) | 1 |
| 7 | 10-016400 | | PLATE, REMOTE CONTROL PENDANT IDENTIFICATION | 1 |
| 8 | 01-031705 | | KNOB, CONTROL BOX MOUNTING | 2 |
| 9 | 07-008354 | | CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8) | 2 |
| 10 | 07-062011 | | WASHER, FLAT (#10) | 8 |
| 11 | | | CABLE, ELECTRICAL [Bulk item, order as needed] | A.R. |
| | 03-085000 | | For earlier versions: Type SJO, 24 conductor, #16 AWG (10 Ft [3.05 M] needed in this application.) | |
| | 03-488800 | | For later versions: Type F 569, 19 conductor, #16 AWG (20 Ft [6.10 M] needed in this application.) | |
| 12 | 03-063200 | | GRIP, CORD (3/4", sealing) | 1 |
| 13 | 03-055600 | | NUT, CONDUIT LOCK (3/4") | 1 |
| 14 | 03-091200 | | TERMINAL, SPADE (Blue, #6 stud, #14-16 AWG) | 22 |
| 15 | 03-091300 | | TERMINAL, SPADE (Blue, #10 stud, #14-16 AWG) | 2 |
| | | | The following optional item, which may be found on **some** earlier pendants, is **not part of** Remote Control Pendant Assembly 350 2251 or 353 4460: | |
| 16 | 03-020400 | | SWITCH, TOGGLE (Travel speed) (on some earlier units) (Two position, maintained contact, single pole, single throw) | 1 |

| TITLE | REMOTE CONTROL PENDANT ASSEMBLY | |
|---|---|---|
| PLATE NO. C06.01 | **SIMON AERIALS INC.** REV. 18 NOV., 1994 | PART NO. |



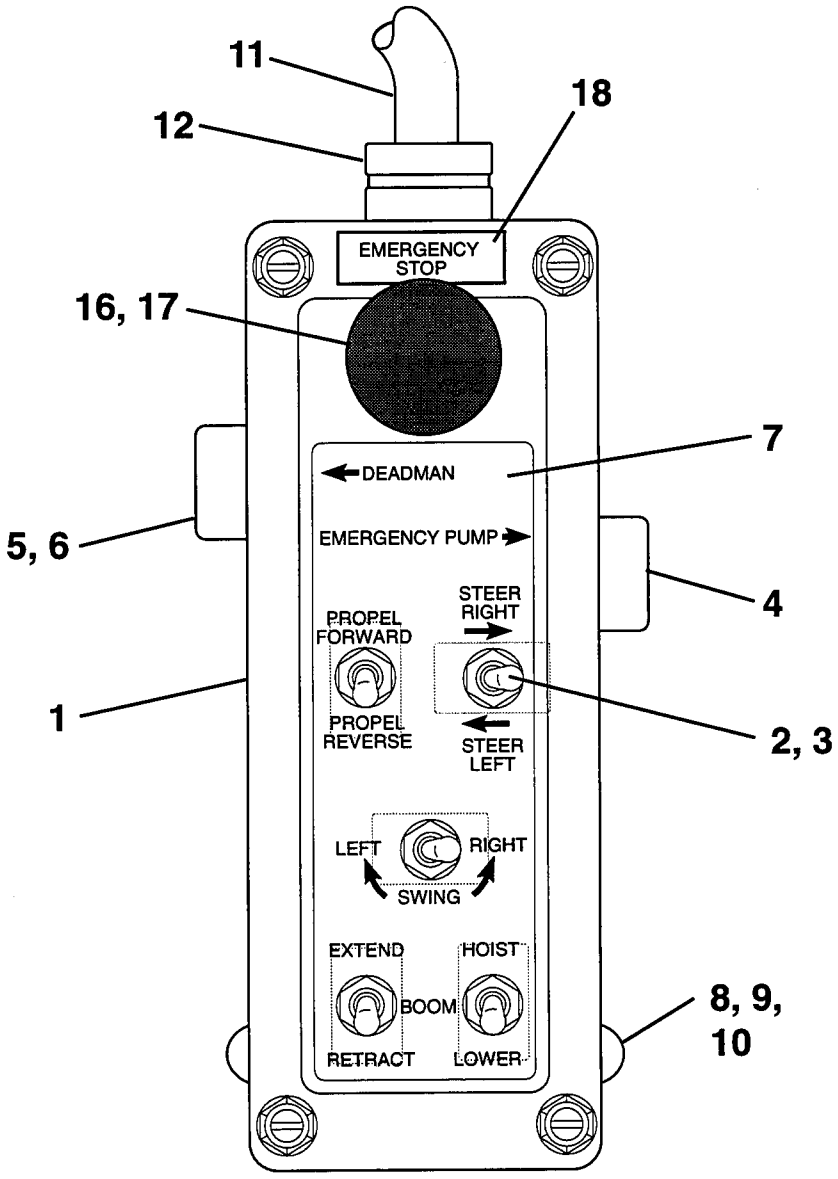

| TITLE | REMOTE CONTROL PENDANT ASSEMBLY | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 18 NOV., 1994 | | PART NO. | PLATE NO. C06.01 |

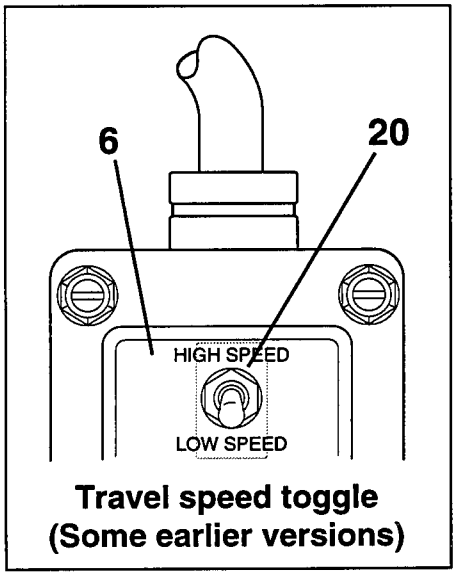
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | REMOTE CONTROL PENDANT ASSEMBLY | 1 |
| | No Part # | | Earlier version, with 10 Ft (3.05 M) long, 24 conductor cable | |
| | No Part # | | Later version, with 20 Ft (6.10 M) long, 19 conductor cable. | |
| 1 | 03-063000 | | BOX, CONTROL (Undrilled box, includes cover) | 1 |
| 2 | 03-020500 | | SWITCH, TOGGLE (Double pole, double throw) | 5 |
| 3 | 03-497900 | | SEAL, PANEL (optional) | 5 |
| 4 | 03-020300 | | BUTTON, PUSH (Single pole, single throw) | 1 |
| 5 | 03-021200 | | BUTTON, PUSH (Two position, "push/ pull") | 1 |
| 6 | 03-025000 | | BLOCK, CONTACT (Normally closed) | 1 |
| 7 | | | PLATE, REMOTE CONTROL PENDANT IDENTIFICATION | 1 |
| | 10-016400 | | With toggle switch hole at top labeled "High/ Low speed". | |
| | No Part # | | Modify part 10-016400 to remove upper section with "High/ Low speed" toggle switch hole. | |
| 8 | 01-031705 | | KNOB, CONTROL BOX MOUNTING | 2 |
| 9 | 07-008354 | | CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8) | 2 |
| 10 | 07-062011 | | WASHER, FLAT (#10) | 8 |
| 11 | | | CABLE, ELECTRICAL [Bulk item, order as needed] | A.R. |
| | 03-085000 | | For earlier versions: Type SJO, 24 conductor, #16 AWG (10 Ft [3.05 M] needed in this application.) | |
| | 03-488800 | | For later versions: Type F 569, 19 conductor, #16 AWG (20 Ft [6.10 M] needed in this application.) | |
| 12 | 03-063200 | | GRIP, CORD (3/4", sealing) | 1 |
| 13 | 03-055600 | | NUT, CONDUIT LOCK (3/4") | 1 |
| 14 | 03-091200 | | TERMINAL, SPADE (Blue, #6 stud, #14-16 AWG) | 22 |
| 15 | 03-091300 | | TERMINAL, SPADE (Blue, #10 stud, #14-16 AWG) | 2 |
| 16 | 03-409800 | | BUTTON, EMERGENCY STOP (Red, "Twist to release" type) | 1 |
| 17 | 03-409900 | | BASE ASSEMBLY, SWITCH MOUNTING (includes "Normally closed" contact block) | 1 |
| 18 | 10-101800 | | DECAL, "EMERGENCY STOP" (Black text in two lines) (on later units having Emergency stop button on front face of pendant) | 1 |
| 19 | No Part # | | DECAL, "EMERGENCY STOP" (Black text in one line) (on some earlier units having an Emergency stop button on the underside of the pendant) | 1 |
| | | | The following optional item, which may be found on **some** earlier pendants, is **not part of** this Remote Control Pendant Assembly: | |
| 20 | 03-020400 | | SWITCH, TOGGLE (Travel speed) (on some earlier units) (Two position, maintained contact, single pole, single throw) | 1 |

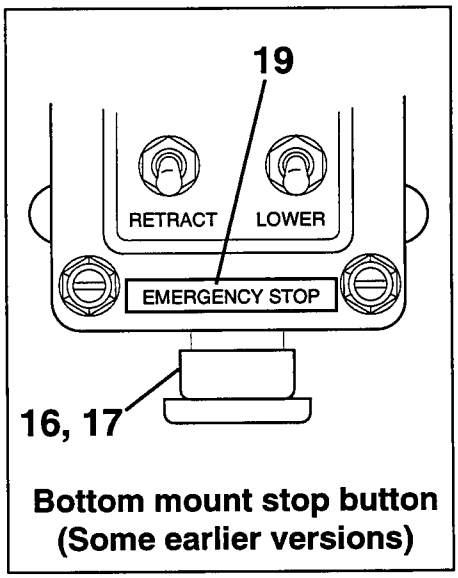
TITLE REMOTE CONTROL PENDANT ASSEMBLY (WITH "EMERGENCY STOP")

| PLATE NO. | SIMON AERIALS INC. | PART NO. |
|---|---|---|
| C06.03 | REV. 18 NOV., 1994 | |




**Travel speed toggle (Some earlier versions)**




**Bottom mount stop button (Some earlier versions)**

ART # C06.03005E

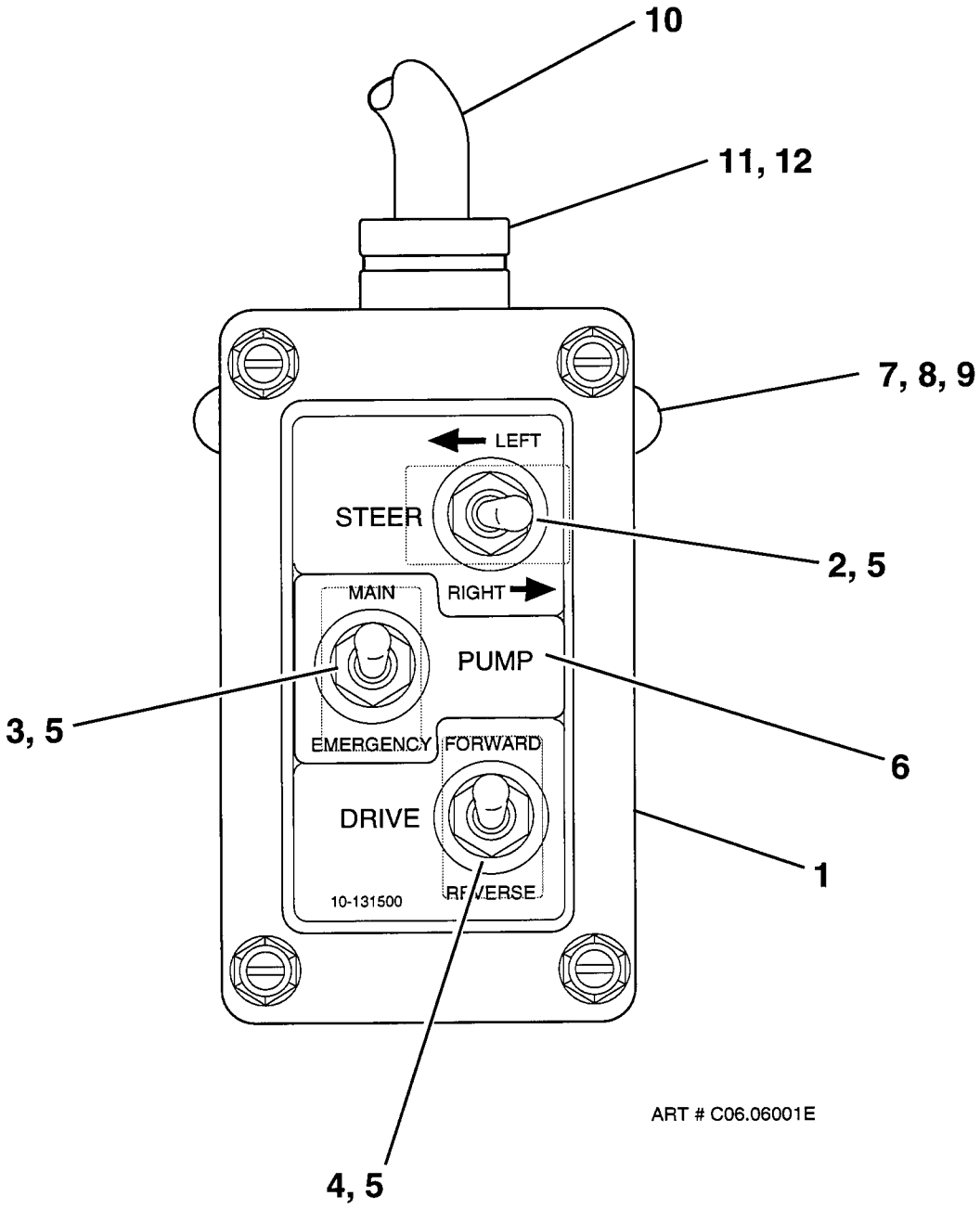
TITLE REMOTE CONTROL PENDANT ASSEMBLY (WITH "EMERGENCY STOP")

| SIMON AERIALS INC. REV. 18 NOV., 1994 | PART NO. | PLATE NO. C06.03 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 219 3970 | | BOX, CONTROL (drilled, includes cover) | 1 |
| 2 | 03-020500 | | SWITCH, TOGGLE (Steer) (Three position, momentary contact, single pole, double throw) | 1 |
| 3 | 03-020500 | | SWITCH, TOGGLE (Pump) (Three position, momentary contact, single pole, double throw) | 1 |
| 4 | 03-020600 | | SWITCH, TOGGLE (Drive) (Three position, momentary contact, double pole, double throw) | 1 |
| 5 | 03-497900 | | SEAL, PANEL | 3 |
| 6 | 10-131500 | | DECAL, REMOTE CONTROL PENDANT | 1 |
| | | | Earlier style has Black lettering on a White background. Later style has White and Red lettering on Black. Appearance change only, decals are interchangeable. | |
| 7 | 01-031705 | | KNOB, CONTROL BOX MOUNTING | 2 |
| 8 | 07-008354 | | CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8) | 2 |
| 9 | 07-062011 | | WASHER, FLAT (#10) | 10 |
| 10 | 03-446100 | | CABLE, ELECTRICAL (18 AWG, 10 conductor) (10 Ft [3.05 M] needed for this application) | A.R. |
| 11 | 03-041700 | | GRIP, CORD (3/8", with .31" to .38" seal) | 1 |
| 12 | 03-055700 | | NUT, CONDUIT LOCK (3/8") | 1 |
| 13 | 03-091200 | | TERMINAL, SPADE (Blue, #6 stud, #14-16 AWG) | 11 |
| 14 | 03-439000 | | TIE, CABLE (3-5/8" [92 mm] long) | 5 |
| 15 | 03-064100 | | MOUNT, CABLE TIE (adhesive backed) | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | PENDANT ASSEMBLY, REMOTE CONTROL | | | |
| PLATE NO. C06.06 | **SIMON AERIALS INC.** | REV. 07 SEP., 1995 | PART NO. | 352 9370 |




ART # C06.06001E

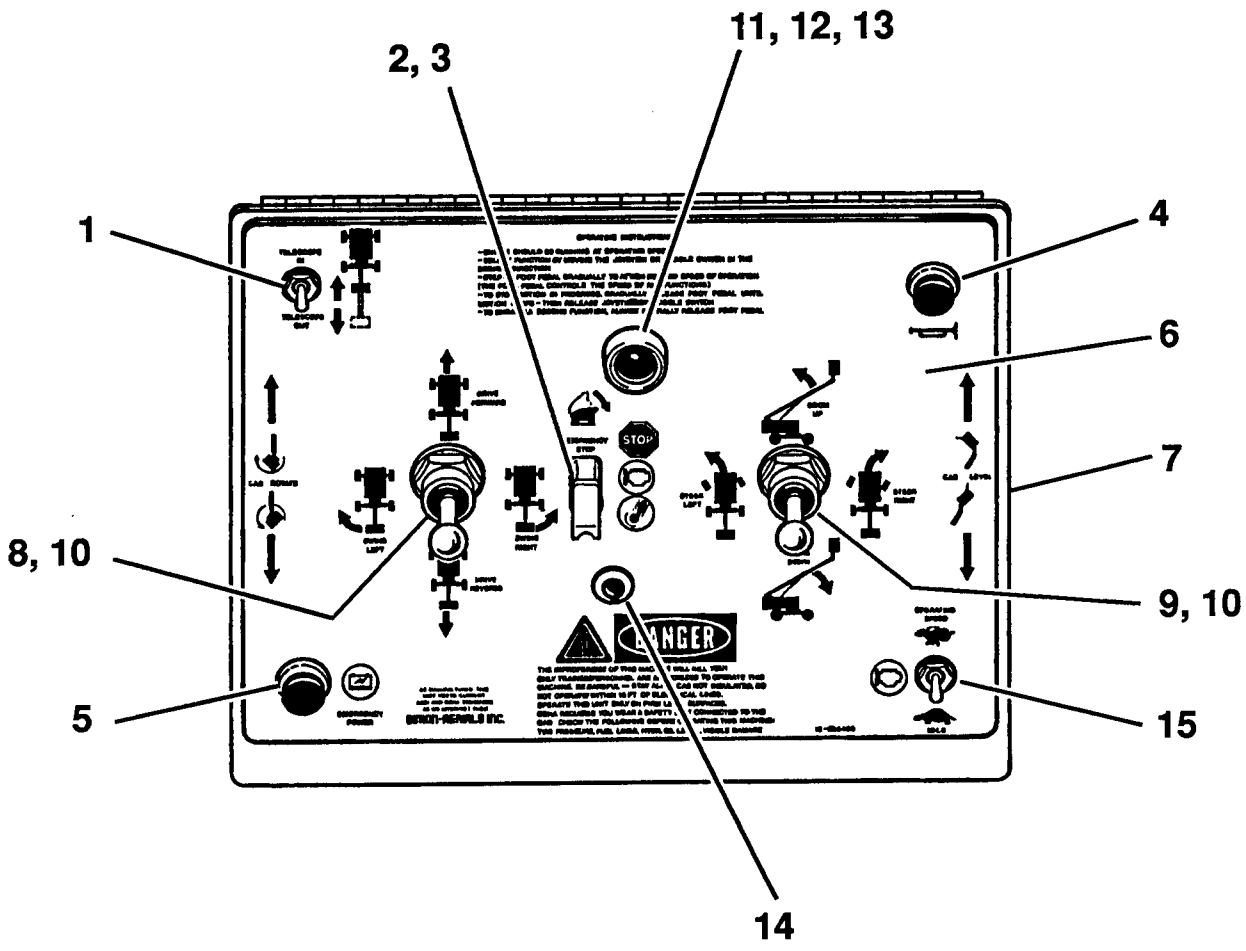
| TITLE | PENDANT ASSEMBLY, REMOTE CONTROL | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 07 SEP., 1995 | PART NO. 352 9370 | PLATE NO. C06.06 | |

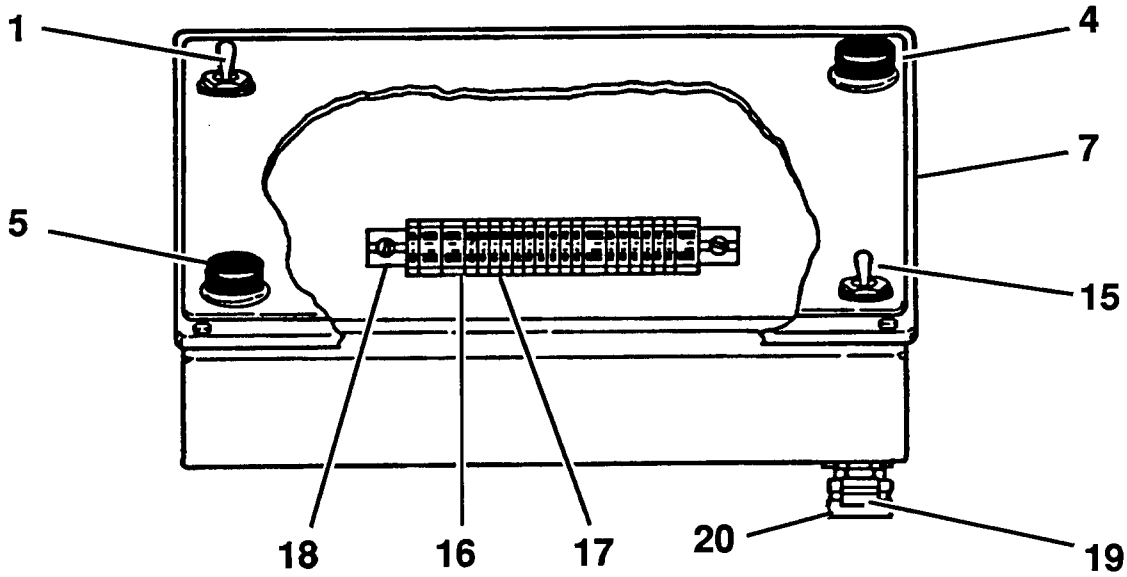
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-020500 | | SWITCH, TOGGLE (Boom extend) | 1 |
| 2 | 03-032600 | | SWITCH, TOGGLE (Ignition, Engine start) | 1 |
| 3 | 03-060800 | | GUARD, TOGGLE SWITCH (Emergency stop) | 1 |
| 4 | 03-020300 | | BUTTON, PUSH (Horn) | 1 |
| 5 | 03-020300 | | BUTTON, PUSH (Emergency pump) | 1 |
| 6 | 10-065400 | | DECAL, PLATFORM CONTROL (MP model, non-insulated) | 1 |
| | 10-065500 | | DECAL, PLATFORM CONTROL (MP model, insulated) | 1 |
| | 10-065200 | | DECAL, PLATFORM CONTROL (MPN model, non-insulated) | 1 |
| | 10-065600 | | DECAL, PLATFORM CONTROL (MPN model, insulated) | 1 |
| 7 | 2062040 | | ENCLOSURE, PLATFORM CONTROLS (w/ holes drilled) | 1 |
| 8 | 03-021800 | E01.03 | CONTROLLER, JOY STICK (5 position) (Drive/ Swing) | 1 |
| 9 | 03-021800 | E01.03 | CONTROLLER, JOY STICK (5 position) (Lift/ Steer) | 1 |
| 10 | 03-025300 | | BLOCK, CONTACT (normally open) | 4 |
| 11 | 03-402500 | | SWITCH, CHOKE (Double pole, single throw) | 1 |
| 12 | 03-402600 | | BEZEL, CHOKE SWITCH OPERATOR | 1 |
| 13 | 03-402800 | | OPERATOR, CHOKE SWITCH | 1 |
| 14 | 03-022900 | | LIGHT, TROUBLE (option, for Diesel engine) | 1 |
| 15 | 03-020400 | | SWITCH, TOGGLE (Two-speed throttle) (option, w/ Diesel) | 1 |
| 16 | 03-036500 | | BLOCK, TERMINAL (Double pole) | 4 |
| 17 | 03-036400 | | BLOCK, TERMINAL (Single pole) | 20 |
| 18 | 03-036600 | | RAIL, TERMINAL BLOCK MOUNTING | 1 |
| 19 | 03-041000 | | GRIP, CORD (1/2") | 1 |
| 20 | 03-063200 | | GRIP, CORD (3/4") | 1 |

TITLE: PLATFORM CONTROL CONSOLE ASSEMBLY

PLATE NO. C08.02 | **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. 3508183



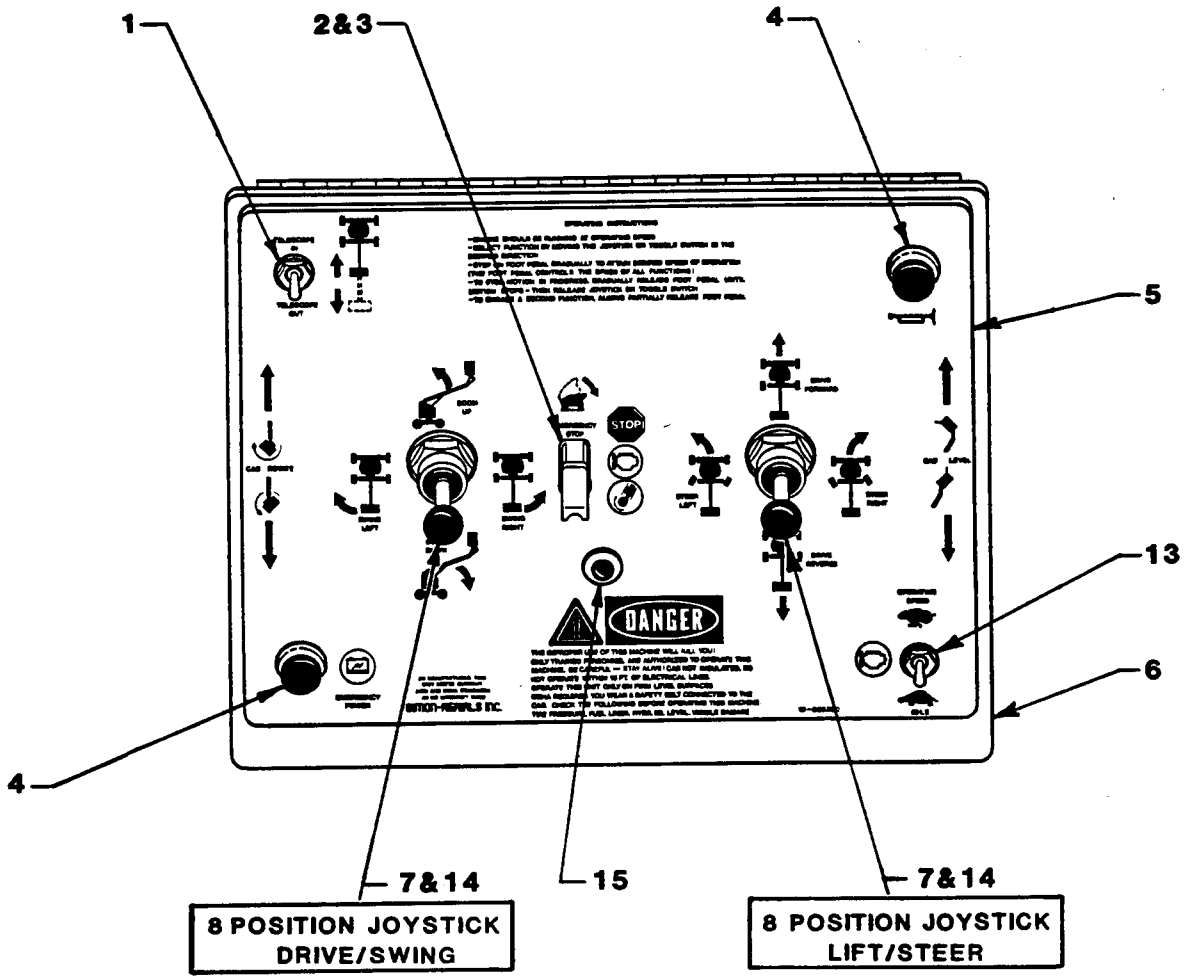



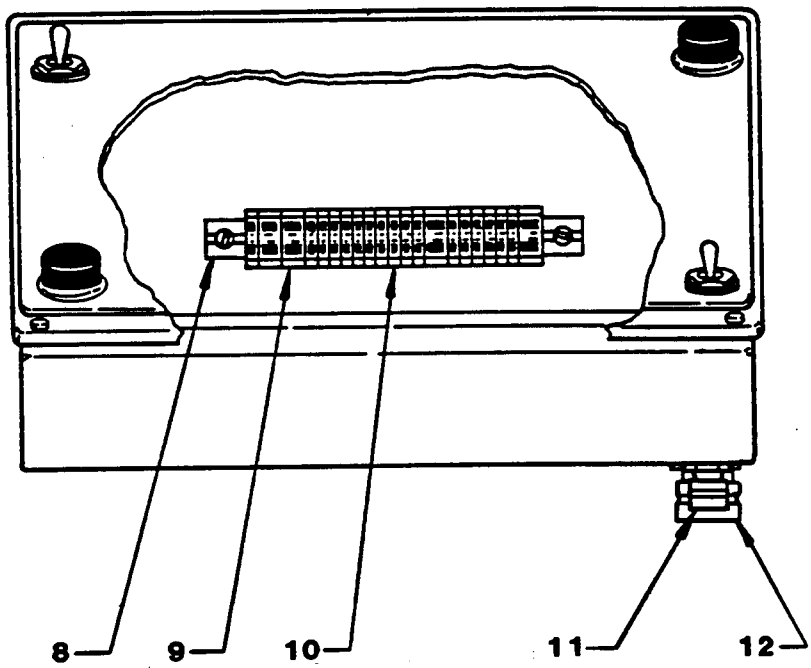

| TITLE | PLATFORM CONTROL CONSOLE ASSEMBLY | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. 3508183 | PLATE NO. C08.02 | |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-020500 | | TOGGLE SWITCH (BOOM EXTEND) | 1 |
| 2 | 03-032600 | | TOGGLE SWITCH (IGN., ENGINE START) | 1 |
| 3 | 03-060800 | | TOGGLE SWITCH GUARD - EMERGENCY STOP | 1 |
| 4 | 03-020300 | | PUSH BUTTON (HORN, EMERGENCY PUMP) | 2 |
| 5 | 10-065300 | | DECAL (MPN SERIES, NON INSULATED) | 1 |
| 5 | 10-065100 | | DECAL (MP SERIES, NON INSULATED) | 2 |
| 6 | 03-035900 | | ENCLOSURE | 1 |
| 7 | 03-061600 | E1.4 | JOYSTICK, 8 POSITION (LIFT-SWING,DRIVE-STEER) | 2 |
| 8 | 03-036600 | | MOUNTING RAIL, TERMINAL BLOCK | 1 |
| 9 | 03-036500 | | TERMINAL BLOCK, DOUBLE POLE | 4 |
| 10 | 03-036400 | | TERMINAL BLOCK, SINGLE POLE | 20 |
| 11 | 03-063200 | | CORD GRIP, 3/4" | 1 |
| 12 | 03-041000 | | CORD GRIP, 1/2" | 1 |
| 13 | 03-020400 | | TOGGLE SWITCH (DIESEL OPTION, 2 SPEED THROTTLE) | 1 |
| 14 | 03-025900 | | CONTACT BLOCK, N.O. | 4 |
| 15 | 03-022900 | | TROUBLE LIGHT (DIESEL OPTION) | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| **PLATFORM CONTROL CONSOLE ASSEMBLY** | **3510401** |



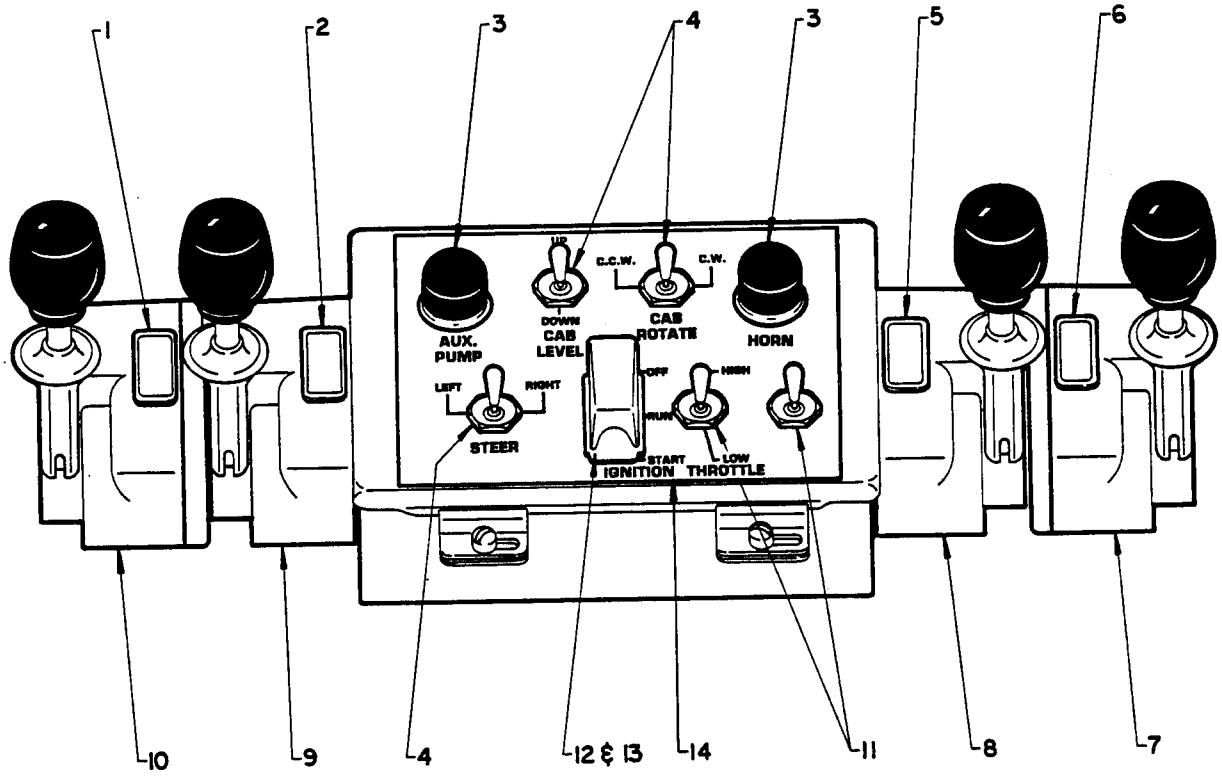




| DESCRIPTION | PART NO. |
|---|---|
| **PLATFORM CONTROL CONSOLE ASSEMBLY** | **3510401** |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-027222 | | DECAL, TELESCOPE | 1 |
| 2 | 03-027223 | | DECAL, LIFT | 1 |
| 3 | 03-020300 | | PUSH BUTTON, AUX. PUMP & HORN | 2 |
| 4 | 03-020500 | | TOGGLE SWITCH, SPST MOM. | 3 |
| 5 | 03-027224 | | DECAL, SWING | 1 |
| 6 | 03-027225 | | DECAL, DRIVE | 1 |
| 7 | 03-027203 | | CONTROLLER, DRIVE | 1 |
| 8 | 03-027205 | | CONTROLLER, SWING | 1 |
| 9 | 03-027204 | | CONTROLLER, LIFT | 1 |
| 10 | 03-027202 | | CONTROLLER, TELESCOPE | 1 |
| 11 | 03-020400 | | TOGGLE SWITCH, SPST | 2 |
| 12 | 03-032600 | | TOGGLE SWITCH, IGNITION | 1 |
| 13 | 03-060800 | | TOGGLE SWITCH COVER | 1 |
| 14 | SBD-208842-6 | | CONTROL CONSOLE DECAL | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| CONTROL CONSOLE (PROPORTIONAL) | CAA-208491-2 |



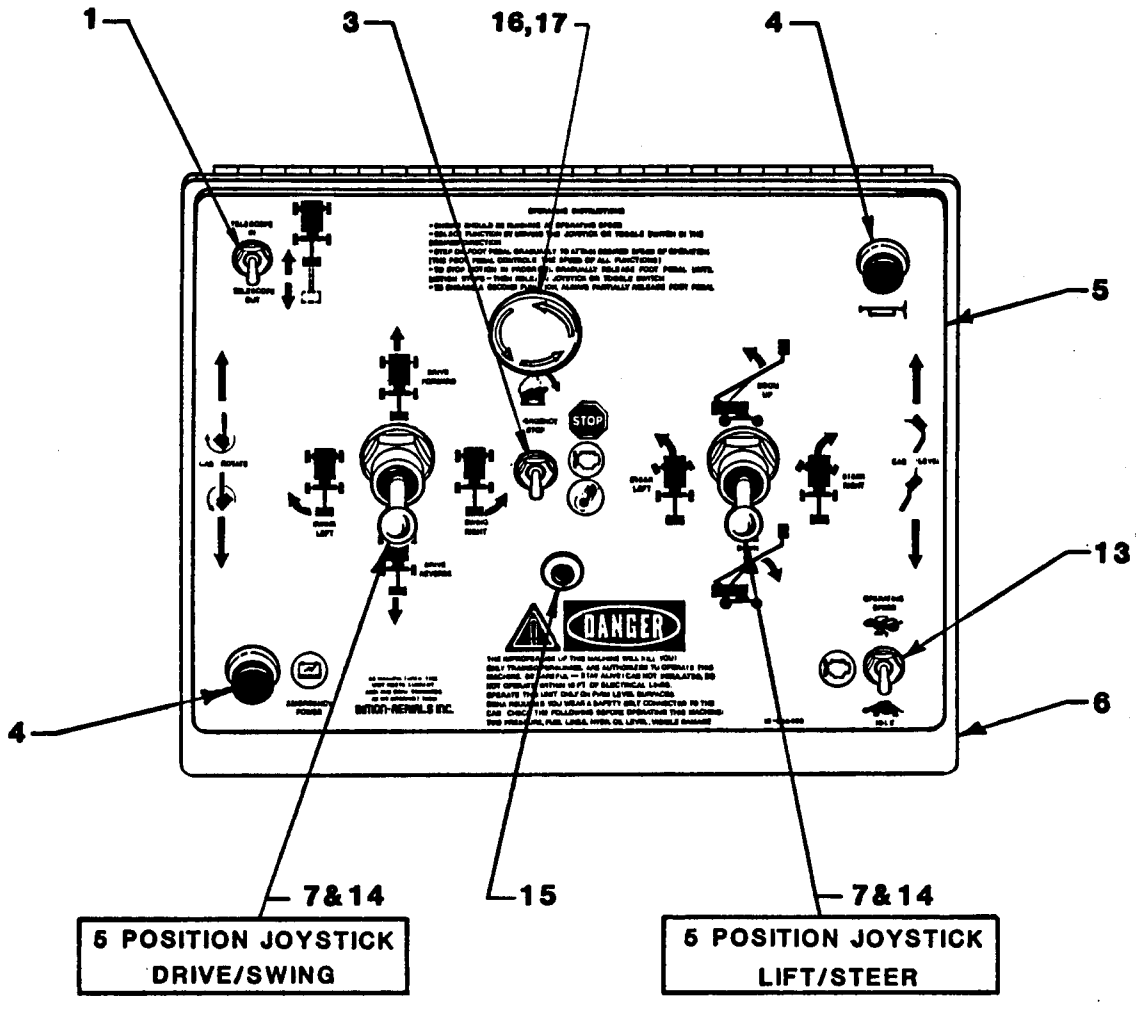

0885/0885

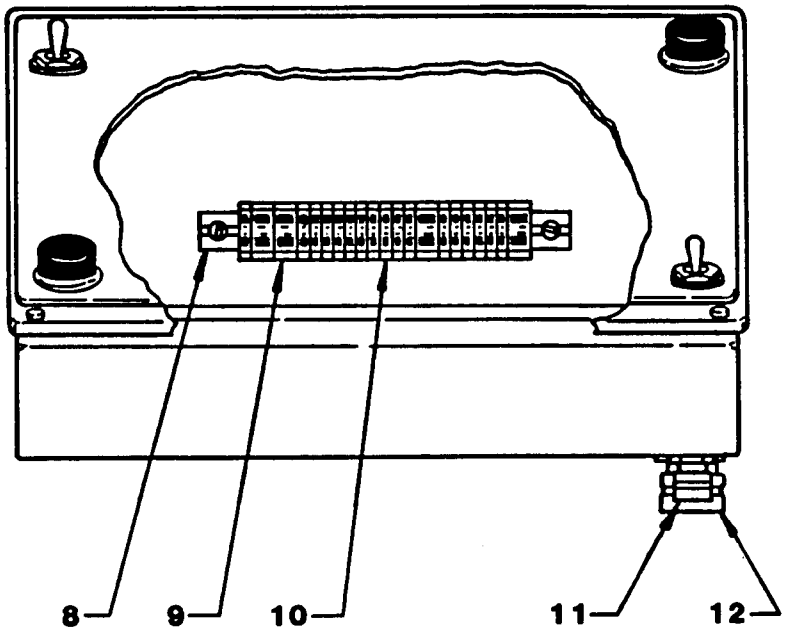
| DESCRIPTION | PART NO. |
|---|---|
| CONTROL CONSOLE (PROPORTIONAL) | CAA-208491-2 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-020500 | | TOGGLE SWITCH (BOOM EXTEND) | 1 |
| 2 | | | | 1 |
| 3 | 03-032600 | | TOGGLE SWITCH (IGNITION, ENG. START) | 1 |
| 4 | 03-020300 | | PUSH BUTTON (HORN, EMERGENCY PUMP) | 2 |
| 5 | 10-065400 | | DECAL (MP SERIES, NON-INSULATED) | 1 |
| 5 | 10-065500 | | DECAL (MP SERIES, INSULATED) | 1 |
| 5 | 10-065200 | | DECAL (MPN SERIES, NON INSULATED) | 1 |
| 5 | 10-065600 | | DECAL (MPN SERIES, INSULATED) | 1 |
| 6 | 03-035900 | | ENCLOSURE | 1 |
| 7 | 03-021800 | E1.3 | JOYSTICK, 5 POSITION (LIFT-STEER, DRIVE-SWING) | 2 |
| 8 | 03-036600 | | MOUNTING RAIL, TERMINAL BLOCK | 1 |
| 9 | 03-036500 | | TERMINAL BLOCK, DOUBLE POLE | 4 |
| 10 | 03-036400 | | TERMINAL BLOCK, SINGLE POLE | 20 |
| 11 | 03-063200 | | CORD GRIP, 3/4" | 1 |
| 12 | 03-041000 | | CORD GRIP, 1/2" | 1 |
| 13 | 03-020400 | | TOGGLE SWITCH (DIESEL OPTION, 2 SPEED THROTTLE) | 1 |
| 14 | 03-025300 | | CONTACT BLOCK, N.O. | 1 |
| 15 | 03-022900 | | TROUBLE LIGHT (DIESEL OPTION) | 1 |
| 16 | 03-409800 | | EMERGENCY STOP SWITCH OPERATOR | 1 |
| 17 | 03-409900 | | MOUNTING BASE & CONTACT BLOCK (N.C.) | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| **PLATFORM CONTROL CONSOLE** | |




**0886/0686**

| DESCRIPTION | PART NO. |
|---|---|
| **PLATFORM CONTROL CONSOLE** | |

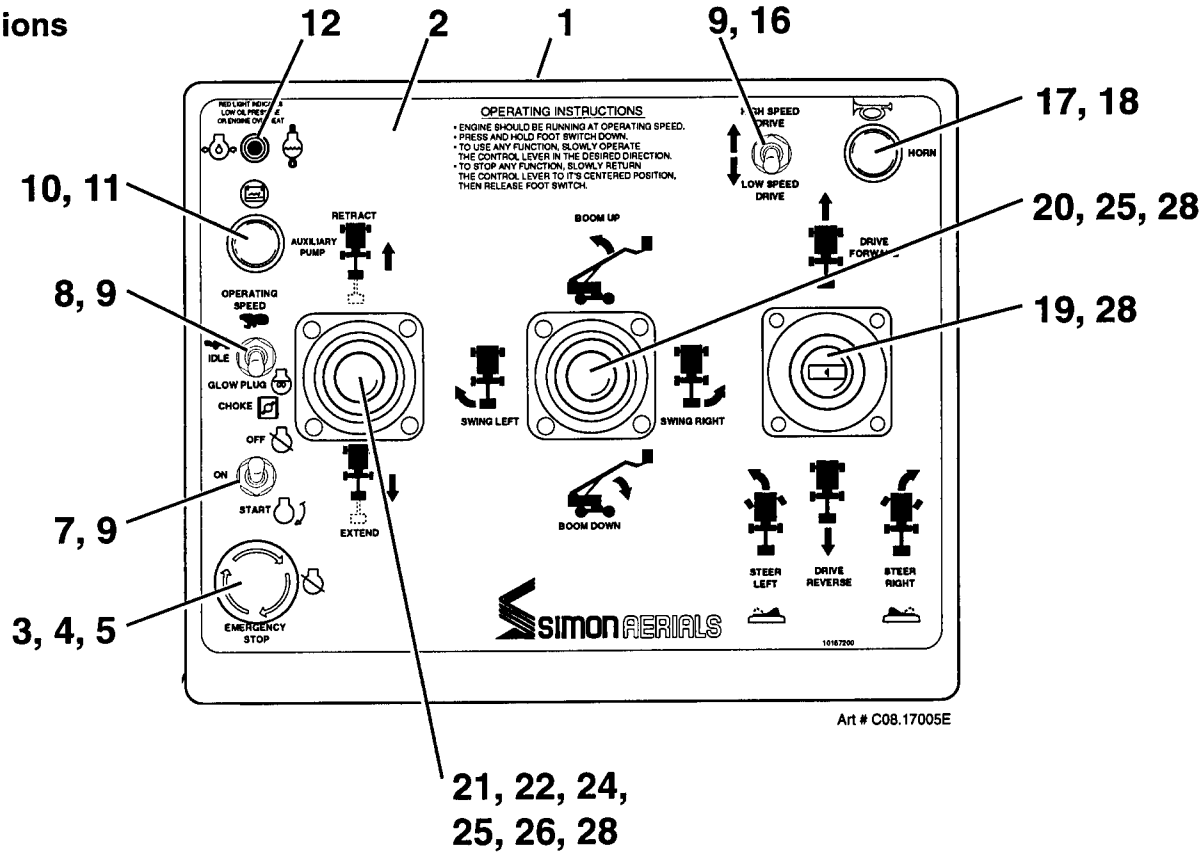
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | CONSOLE, CONTROL | 1 |
| | 219 6160 | | Later version, for models with Emergency Stop **button**. | |
| | 210 5560 | | Earlier version, for models with **red toggle switch cover**. | |
| 2 | | | PLACARD, PLATFORM CONTROL | 1 |
| | 10-157200 | | Later version, for models with Emergency Stop **button**. | |
| | 10-123500 | | Earlier version, for models with **red toggle switch cover** for Emergency Stop. | |
| 3 | 03-702000 | | BUTTON, EMERGENCY STOP (Red "pull to release" style) | 1 |
| 4 | 03-454900 | | BASE, CONTACT BLOCK | 1 |
| 5 | 03-437300 | | BLOCK, CONTACT (Normally closed) | 1 |
| 6 | 03-060800 | | GUARD, SWITCH (Red) (for earlier version) | 1 |
| 7 | 03-032600 | | SWITCH, TOGGLE (Engine start) (3 position, 2 maintained and 1 momentary contact, double pole, double throw) | 1 |
| 8 | 03-032600 | | SWITCH, TOGGLE (Engine speed) (3 position, 2 maintained and 1 momentary contact, double pole, double throw) | 1 |
| 9 | 03-497900 | | SEAL, PANEL | 3 |
| 10 | 03-020300 | | SWITCH, PUSH BUTTON (Auxiliary pump) | 1 |
| 11 | 03-020302 | | CAP, PUSH BUTTON SWITCH (Red) | 1 |
| 12 | 03-706400 | | DIODE, LIGHT-EMITTING (L.E.D.) (Red, 12 Volt) (Later version. No holder or resister needed) | 1 |
| 13 | 03-481200 | | DIODE, BLINKING (Red) (Optional engine warning lamp) (Earlier version. Requires holder and resister below) | 1 |
| 14 | 03-481300 | | HOLDER, DIODE | 1 |
| 15 | 03-481100 | | RESISTOR (470 Ohm) | 1 |
| 16 | 03-020400 | | SWITCH, TOGGLE (Drive speed) (Optional two speed drive) (2 position, maintained contact, single pole, single throw) | 1 |
| 17 | 03-020300 | | SWITCH, PUSH BUTTON (Horn) | 1 |
| 18 | 03-020301 | | CAP, PUSH BUTTON SWITCH (Black) | 1 |

TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (1 OF 4)

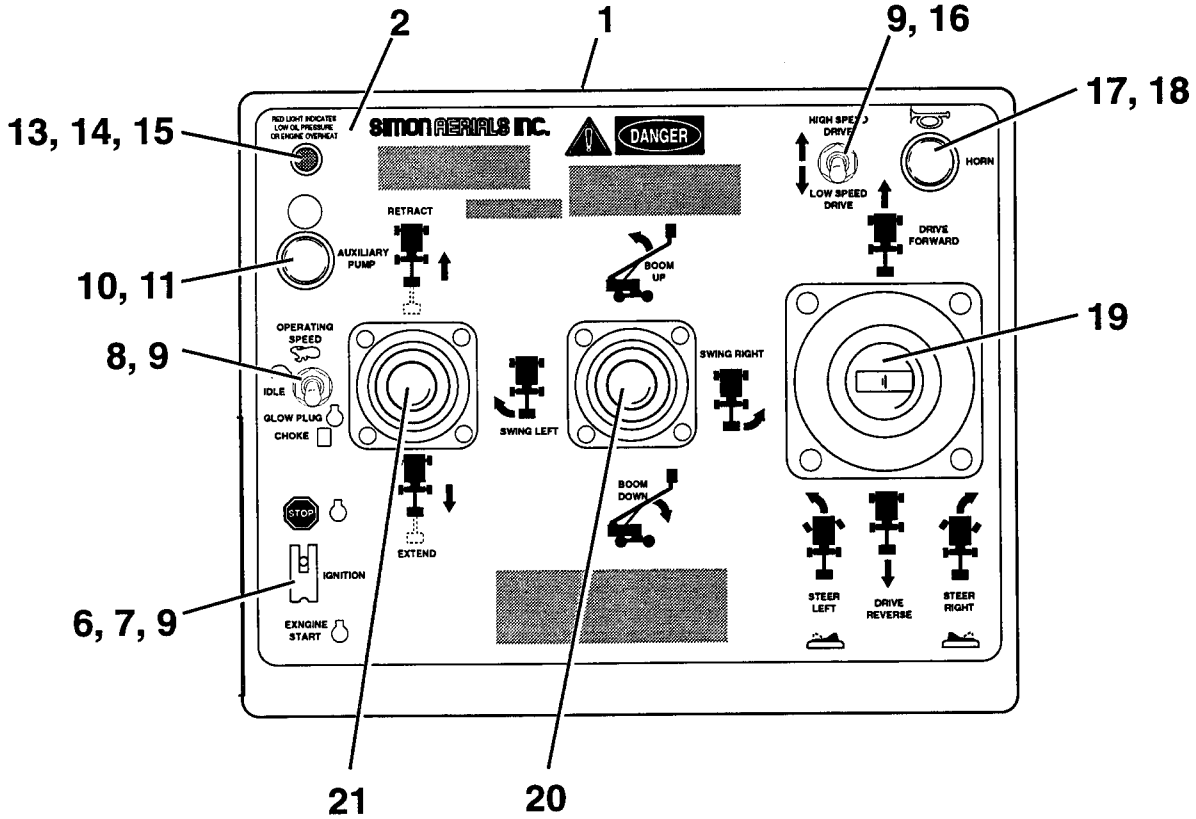
| PLATE NO. | C08.17 | SIMON AERIALS INC. | NEW 02 DEC., 1994 | PART NO. |
|---|---|---|---|---|

## Later Versions




Art # C08.17005E

## Earlier Versions




TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (1 OF 4)

| SIMON AERIALS INC. | NEW 02 DEC., 1994 | PART NO. | PLATE NO. C08.17 |
|---|---|---|---|

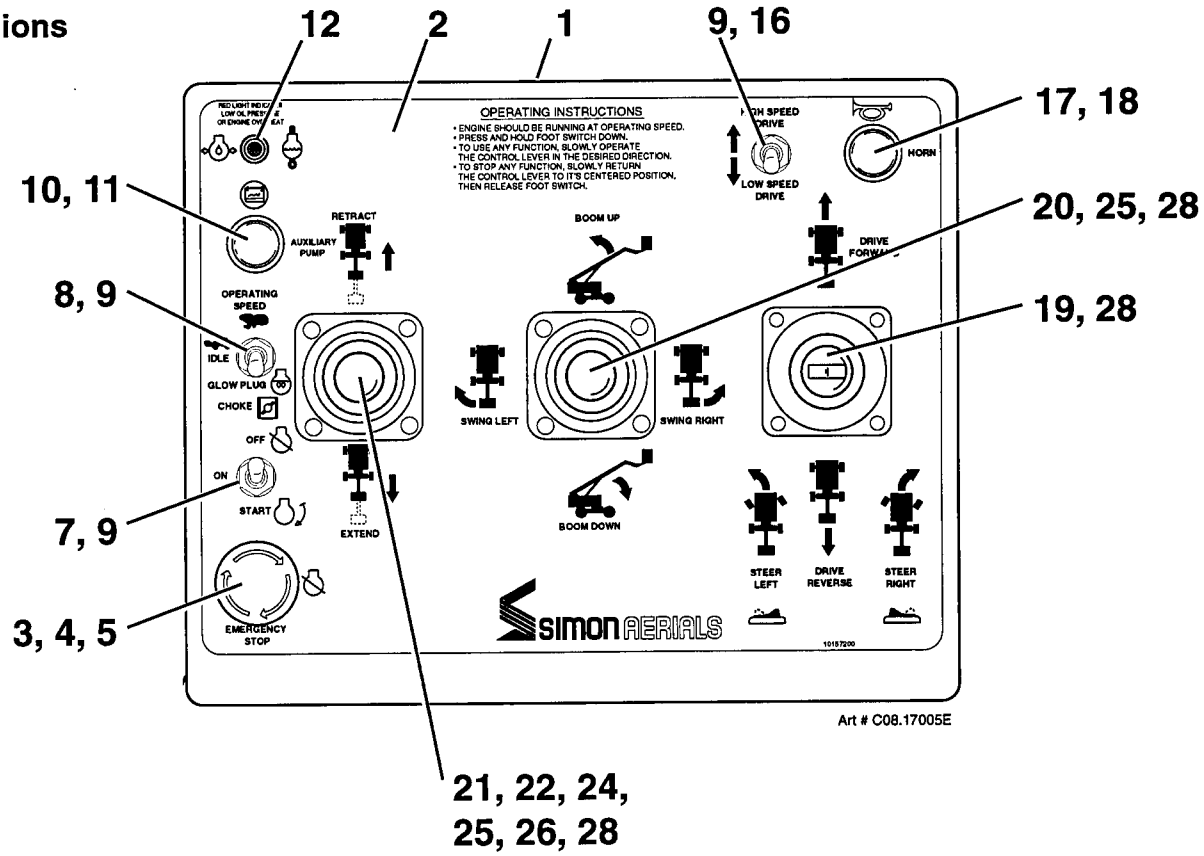
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 19 | | E01.08 | CONTROLLER, SINGLE AXIS (with rocker) (Drive/ Steer) | |
| | 03-491200 | | Later type, identified on nameplate as "MJ **4121-1043**" | 1 |
| | 03-481900 | | Earlier type, identified on nameplate as "MS M6941" | 1 |
| 20 | | E01.10 | CONTROLLER, DUAL AXIS (Boom angle/ swing) | |
| | 03-491100 | | Later type, identified on nameplate as "MJ **5122**-1020" | 1 |
| | 03-481800 | | Earlier type, identified on nameplate as "JS54 M6539" | 1 |
| 21 | | E01.09 | CONTROLLER, SINGLE AXIS (Boom extend/ retract) | |
| | 03-491000 | | Later type, identified on nameplate as "MJ **4121**-1020" | 1 |
| | 03-481700 | | Earlier type, identified on nameplate as "EMS4 M6351" | 1 |
| 22 | 03-493600 | | CARD, SWITCH (with mounting hardware) (Mounts to Extend/ Retract Controller in this application.) | 1 |
| 23 | 03-702100 | | RAMP KIT, DRIVE | 1 |
| 24 | 03-494800 | | RAMP CARD (Mounts to Extend/ Retract Controller) | 1 |
| 25 | 03-494900 | | DRIVE BOARD (Mount to Extend/ Retract and Swing Controllers in this application.) | 2 |
| 26 | 03-495300 | | CABLE, JUMPER (Mounts to Extend/ Retract Controller) | 1 |
| 27 | 03-702200 | | MOUNTING HARDWARE, DRIVE RAMP KIT | 1 |
| 28 | 03-499500 | | COVER KIT, CONTROLLER (includes one underside boot and clamp) | 3 |

TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (2 OF 4)

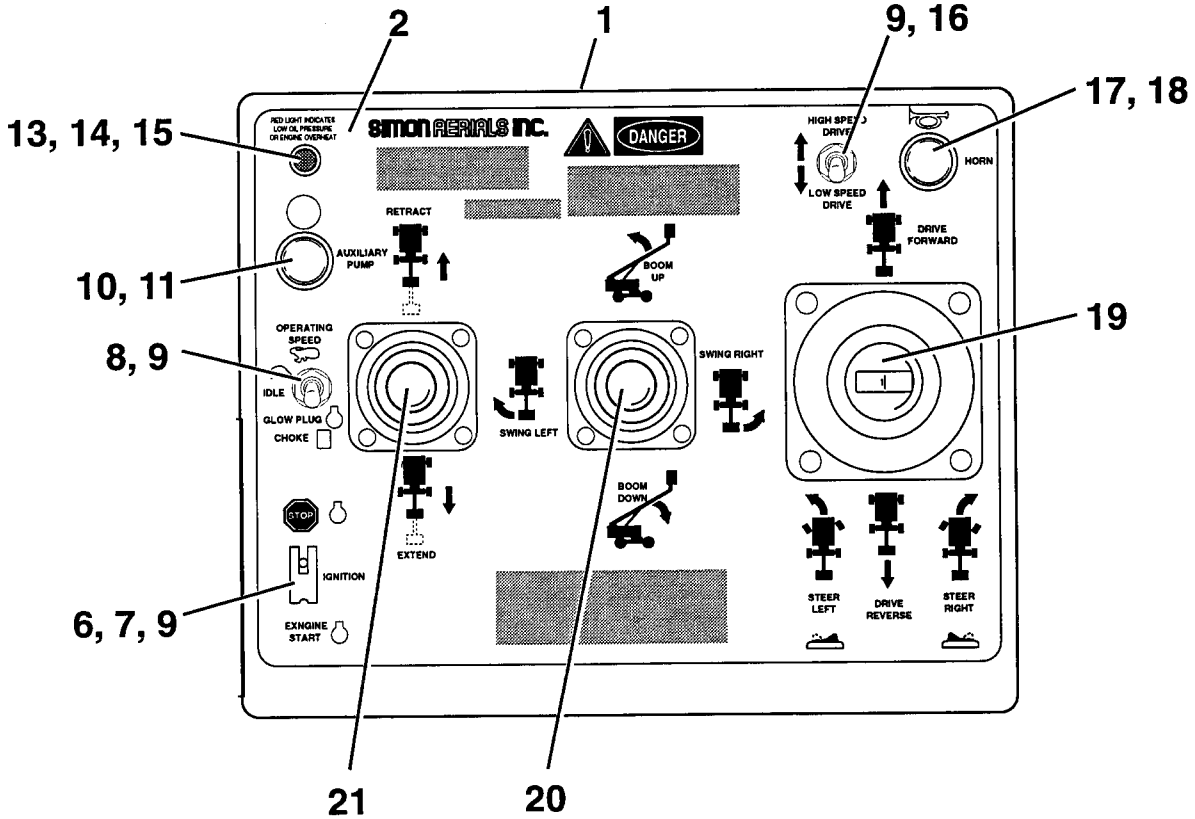
PLATE NO. C08.17 | **SIMON AERIALS INC.** NEW 02 DEC., 1994 | PART NO.

## Later Versions




Art # C08.17005E

## Earlier Versions




TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (2 OF 4)

| SIMON AERIALS INC. | NEW 02 DEC., 1994 | PART NO. | PLATE NO. C08.17 |
|---|---|---|---|

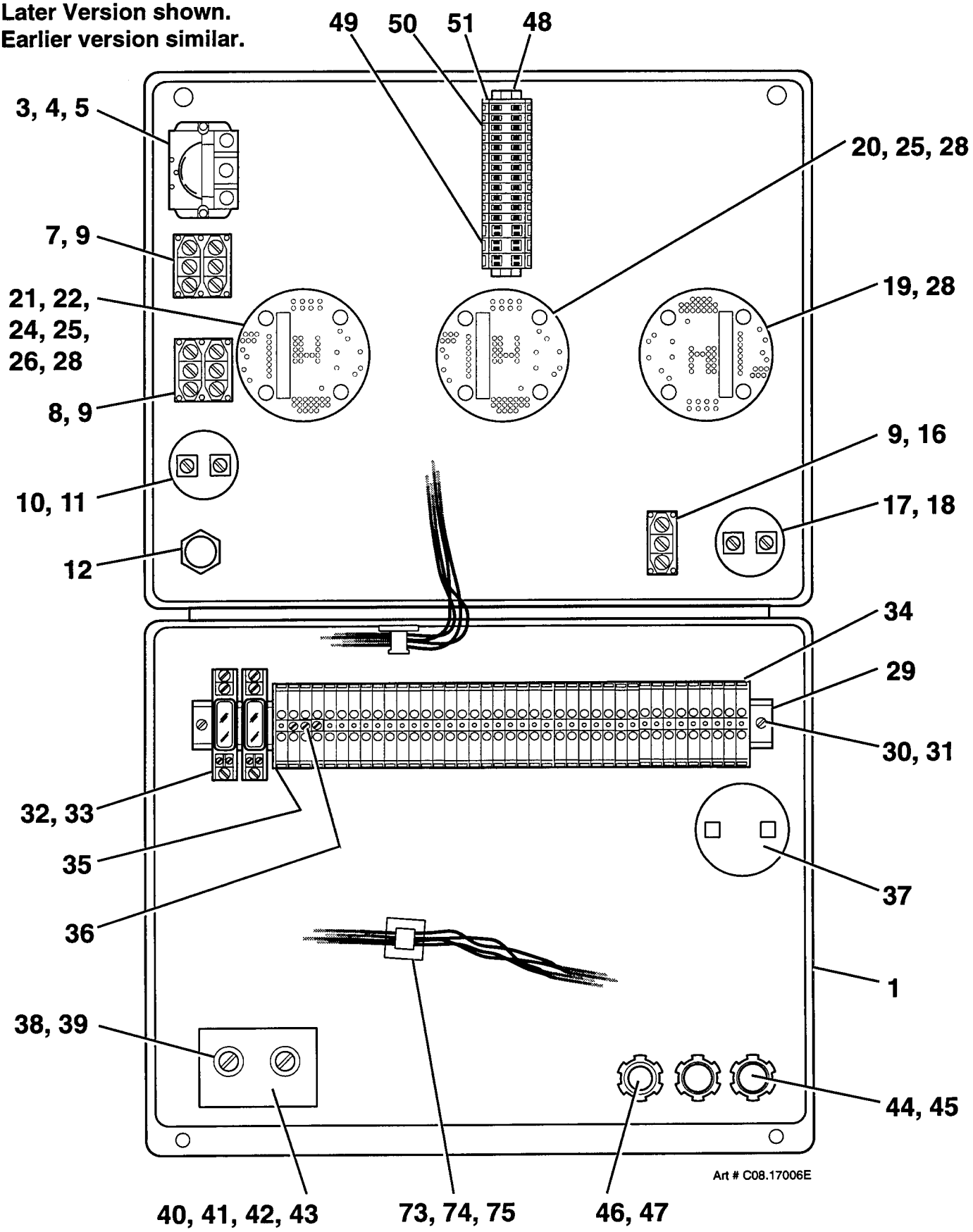
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 29 | 03-051700 | | RAIL, TERMINAL (1-3/8" [35 mm] wide) (1 M [39.37"] long section) (12" [305 mm] long piece needed here) | 1 |
| 30 | 07-011800 | | SCREW, SHEET METAL PAN HEAD (#6 x 3/4") | 2 |
| 31 | 07-050007 | | NUT, STOP (#6-32, Grade 5) | 2 |
| 32 | 03-051600 | | SOCKET, RELAY (Single pole, snap mount) | 2 |
| 33 | 03-051500 | | RELAY, PLUG IN (12 Volt DC, single pole) | 2 |
| 34 | 03-066200 | | BLOCK, TERMINAL (25 Amp, for #12 Gauge wire) | 39 |
| | 03-039100 | | BLOCK, TERMINAL (Grounding, for #12 Gauge wire) (on some earlier versions) | 2 |
| 35 | 03-066100 | | PLATE, TERMINAL BLOCK END | 1 |
| 36 | 03-066300 | | BAR, JUMPER (2 pole) (Double line jumper) | A.R. |
| | 03-067500 | | BAR, JUMPER (3 pole) (Triple line jumper) | A.R. |
| | 03-707200 | | BAR, JUMPER (4 pole) (Quad line jumper) | A.R. |
| 37 | 03-501800 | | ALARM (Dual tone) | 1 |
| 38 | 03-027231 | | POTENTIOMETER (10 K Ohm) | 2 |
| 39 | 03-044900 | | LOCK, SHAFT | 2 |
| 40 | 2194180 | | BRACKET, POTENTIOMETER MOUNTING | 1 |
| 41 | 07-011800 | | SCREW, SHEET METAL PAN HEAD (#6 x 3/4") | 2 |
| 42 | 07-050007 | | NUT, STOP (#6-32, Grade 5) | 2 |
| 43 | 07-090063 | | WASHER, EXTERNAL TOOTH (#6) | 2 |
| 44 | 03-063200 | | GRIP, CORD (3/4", with .69" to .75" seal) | 2 |
| 45 | 03-055600 | | NUT, CONDUIT (3/4") | 2 |
| 46 | 03-041000 | | GRIP, CORD (1/2", with .38" to .44" seal) | 1 |
| 47 | 03-055500 | | NUT, CONDUIT (1/2") | 1 |
| 48 | 03-036600 | | RAIL, TERMINAL (5/8" [16 mm] wide) (1M [39.37"] long section. Cut to fit.) | A.R. |
| 49 | 03-036500 | | BLOCK, TERMINAL (4 conductor, for #16 to #24 Gauge wire) | 3 |
| 50 | 03-036400 | | BLOCK, TERMINAL (2 conductor, for #16 to #24 Gauge wire) | 12 |
| 51 | 03-036700 | | PLATE, TERMINAL BLOCK END | 1 |

TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (3 OF 4)

| PLATE NO. | SIMON AERIALS INC. | PART NO. |
|---|---|---|
| C08.17 | NEW 02 DEC., 1994 | |

Later Version shown.
Earlier version similar.




TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (3 OF 4)

| SIMON AERIALS INC. | NEW 02 DEC., 1994 | PART NO. | PLATE NO. C08.17 |
|---|---|---|---|

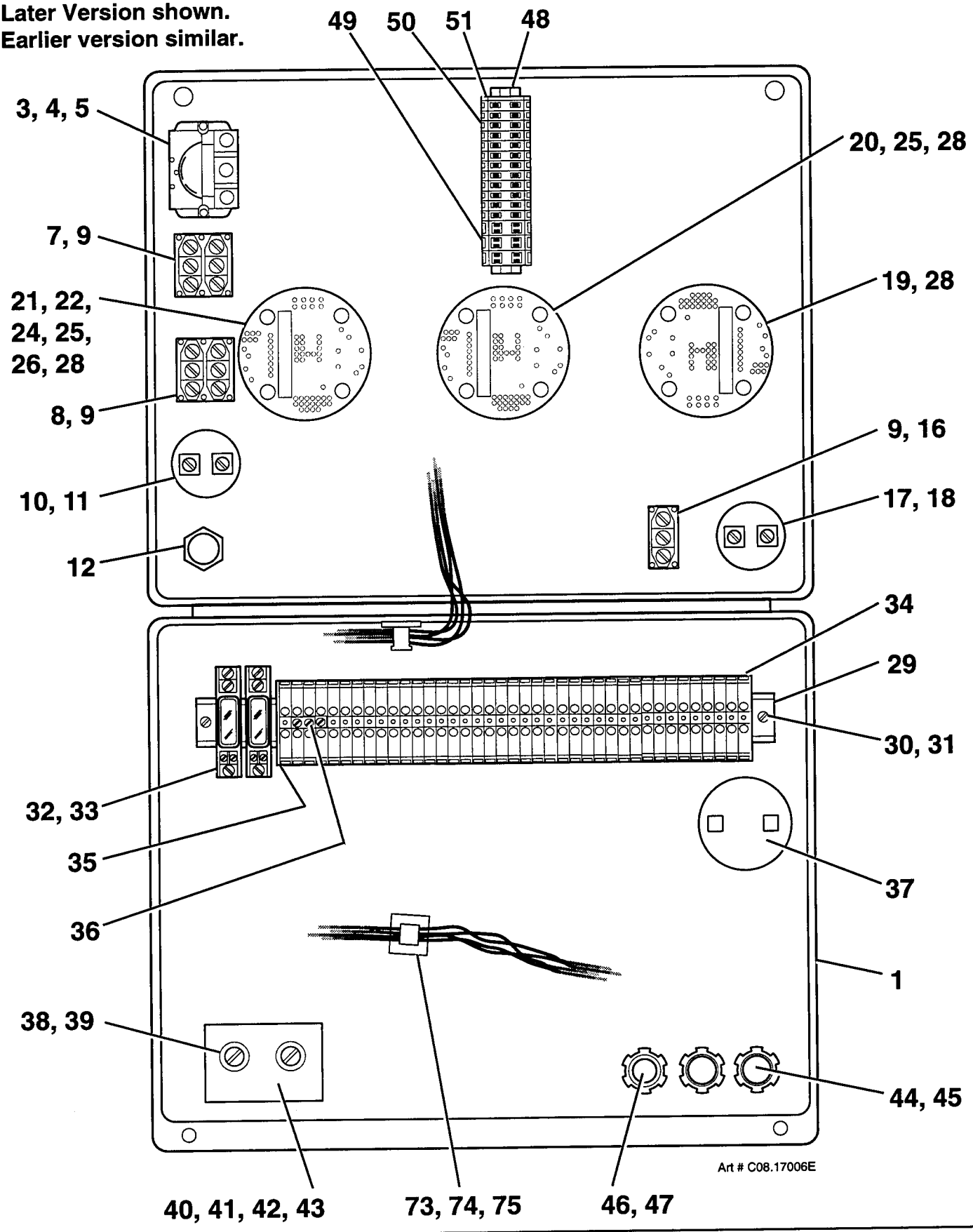
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | The following hardware items, listed for your convenience, are **typically** used in Simon electrical control boxes: | |
| 52 | 03-488800 | | CABLE, ELECTRICAL (Type F 569, 19 conductor, #16 AWG) (Bulk item, order as needed) | |
| 53 | 03-446100 | | CABLE, ELECTRICAL (10 conductor, #18 AWG) (Bulk item, order as needed) | |
| 54 | 03-088300 | | WIRE, ELECTRICAL (#14 AWG, Blue, stranded) (Bulk item) | |
| 55 | 03-087500 | | WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item) | |
| 56 | 03-087600 | | WIRE, ELECTRICAL (#16 AWG, Black, stranded) (Bulk item) | |
| 57 | 03-403800 | | DIODE | |
| 58 | 03-092200 | | COUPLING, INSULATED (Male, blue nylon, #14-16 AWG) | |
| 59 | 03-092300 | | COUPLING, INSULATED (Female, blue nylon, #14-16 AWG) | |
| 60 | 03-096000 | | TERMINAL, END (Blue, "piggyback") (#14-16 AWG) | |
| 61 | 03-094600 | | TERMINAL, RING (Blue, #14-16 AWG, #10 stud) | |
| 62 | 03-091200 | | TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud) | |
| 63 | 03-098400 | | TERMINAL, END (Blue, #14-16 AWG) | |
| 64 | 03-099000 | | CONNECTOR, BUTT (Blue, #14-16 AWG) | |
| 65 | 03-098100 | | TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG) | |
| 66 | 03-095500 | | TERMINAL, RING (Yellow, #10 AWG, #6 stud) | |
| 67 | 03-095700 | | TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud) | |
| 68 | 03-099100 | | CONNECTOR, BUTT (Yellow, #10-12 AWG) | |
| 69 | 03-095900 | | TERMINAL, RING (Red, #8 stud) | |
| 70 | 03-066800 | | LOOM, WIRE (1/2") | |
| 71 | 03-066900 | | LOOM, WIRE (3/4") | |
| 72 | 03-405200 | | TUBING, HEAT SHRINK (Clear, 3/16") | |
| 73 | 03-439000 | | TIE, CABLE (3-5/8" [92 mm] long) | |
| 74 | 03-064000 | | TIE, CABLE (7.4" [188 mm] long) | |
| 75 | 03-064100 | | MOUNT, CABLE TIE (Adhesive backed) | |

TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (4 OF 4)

PLATE NO. C08.17 | **SIMON AERIALS INC.** NEW 02 DEC., 1994 | PART NO.

Later Version shown.
Earlier version similar.




TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (4 OF 4)

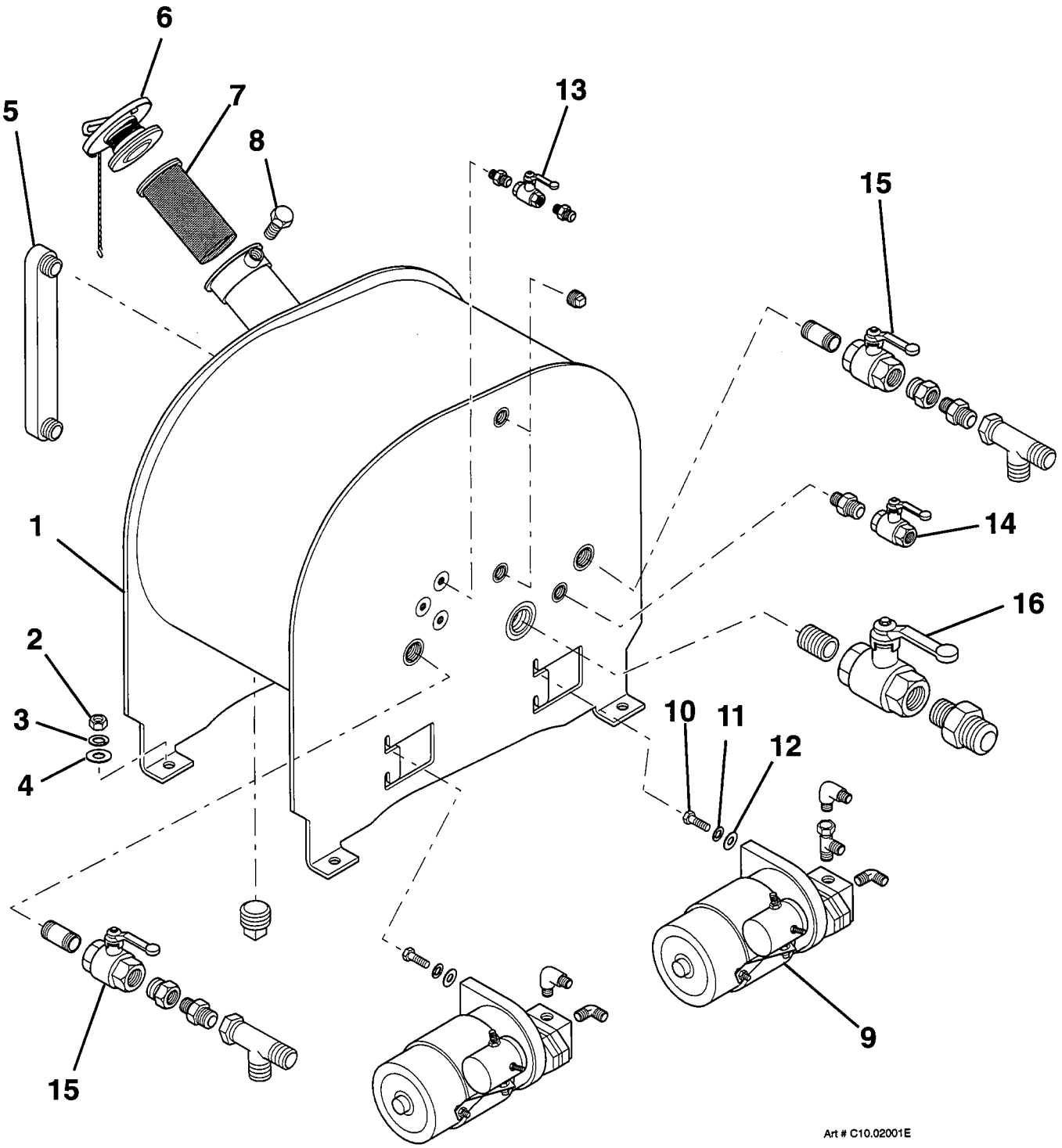
| SIMON AERIALS INC. NEW 02 DEC., 1994 | PART NO. | PLATE NO. C08.17 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 207 4845 | | TANK WELDMENT, HYDRAULIC [Capacity 55 gallons (208 liters)] | 1 |
| 2 | 07-040018 | | NUT, HEX (1/2"-13, Grade 5) | 4 |
| 3 | 07-065018 | | WASHER, HELICAL LOCK (1/2") | 4 |
| 4 | 07-062018 | | WASHER, FLAT (1/2") | 4 |
| 5 | 10-033800 | D12.05 | GAUGE, SIGHT [14" (35.56 cm) long] | 1 |
| 6 | 10-002100 | | CAP, HYDRAULIC TANK FILLER | 1 |
| 7 | 10-001000 | | STRAINER ASSEMBLY | 1 |
| 8 | 01-008200 | | PLUG, VENT (with 40 micron filter) | 1 |
| 9 | See Index . | D07. - - | PUMP, EMERGENCY HYDRAULIC | A.R. |
| 10 | 07-003045 | | CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5) | 4 |
| 11 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 4 |
| 12 | 07-062016 | | WASHER, FLAT (3/8") | 4 |
| 13 | | | VALVE, BALL (Shutoff valve) (1/4" NPT) | A.R. |
| 14 | 01-002800 | | VALVE, BALL (Shutoff valve) (1/2" NPT) | A.R. |
| 15 | 01-020600 | | VALVE, BALL (Shutoff valve) (3/4" NPT) | A.R. |
| 16 | 01-068500 | | VALVE, BALL (Shutoff valve) (1" NPT) | A.R. |
| 17 | 01-063000 | | VALVE, BALL (Shutoff valve) (1-1/2" NPT) | A.R. |
| 18 | 01-018400 | | VALVE, BALL (Shutoff valve) (2" NPT) | A.R. |
| | | | The following items may be found on a typical installation: | |
| 19 | 01-226000 | | FILTER, HIGH PRESSURE (10 micron, #6 SAE ports) | 2 |
| 20 | 351 7060 | | HOSE ASSEMBLY | 2 |
| 20a | 03-466900 | | HEATER, TANK (120 Volt AC) (option, not shown) | 1 |
| 21 | 11-075800 | | NIPPLE, PIPE (1-1/2" NPT, 3" long) | 1 |
| 22 | | | NIPPLE, PIPE (1-1/2" NPT, close) | 1 |
| 23 | 11-020014 | | NIPPLE, PIPE (1" NPT, close) | 1 |
| 24 | 11-020017 | | NIPPLE, PIPE (2" NPT, close) | 1 |
| 25 | 11-203200 | | NIPPLE, PIPE (1/2" x 1-1/8") | 1 |
| 26 | 11-071500 | | NIPPLE, PIPE (1-1/2" x 1-3/4", close) | 1 |
| 27 | 06-039800 | | ADAPTER, "O"-RING TO 37° (6 F50X-S) | 1 |
| 28 | 06-001700 | | CONNECTOR, MALE (12-8 FTX-S) | 1 |
| 29 | 06-002000 | | CONNECTOR, MALE (12-16 FTX-S) | 1 |
| 30 | 06-002200 | | CONNECTOR, MALE (16 FTX-S) | 1 |
| 31 | 06-079000 | | CONNECTOR, SWIVEL NUT (16 F65X-S) | 1 |
| 32 | 06-191500 | | CONNECTOR, HOSE (Beaded insert) (1-1/2" NPT, 1-1/2" I.D. hose, 1-1/2" long) | 1 |
| 33 | 11-061400 | | BUSHING, REDUCER (1-1/2" to 3/4" NPT) | 1 |
| 34 | 11-061500 | | BUSHING, REDUCER (1-1/2" to 1" NPT) | 1 |
| 35 | 11-061800 | | BUSHING, REDUCER (2" to 1-1/2" NPT) | 1 |
| 36 | 11-061900 | | REDUCER, BELL (2" to 1/2" NPT) | 1 |

**TITLE** HYDRAULIC TANK ASSEMBLY, MP/ RP (WITH EXTENDABLE AXLES)

| PLATE NO. | C10.02 | **SIMON AERIALS INC.** | REV. 07 APR., 1995 (THIS SHEET ONLY) | PART NO. |
|---|---|---|---|---|



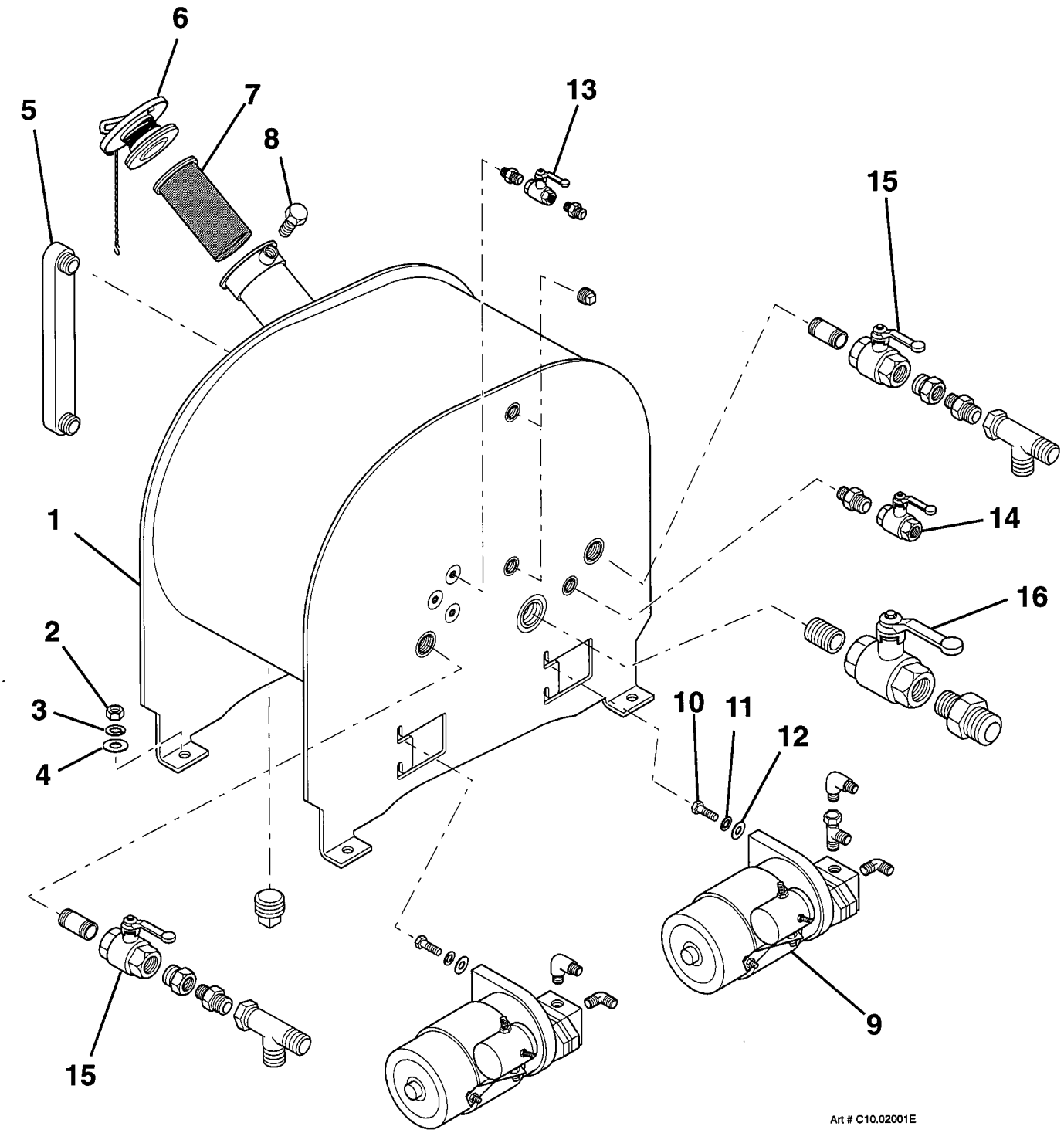

| TITLE | HYDRAULIC TANK ASSEMBLY, MP/ RP (WITH EXTENDABLE AXLES) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 20 JUN., 1994 | PART NO. | PLATE NO. C10.02 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 37 | 06-003500 | | 90° ELBOW, MALE 37° TO NPT (4-4 CTX-S) | 1 |
| 38 | 06-003800 | | 90° ELBOW, MALE 37° TO NPT (6 CTX-S) | 1 |
| 39 | 06-004100 | | 90° ELBOW, MALE 37° TO NPT (6-8 CTX-S) | 1 |
| 40 | 06-044400 | | 90° ELBOW, STRAIGHT THREAD (4-6 C50X-S) | 1 |
| 41 | 06-044600 | | 90° ELBOW, STRAIGHT THREAD (6 C50X-S) | 1 |
| 42 | 06-045100 | | 90° ELBOW, STRAIGHT THREAD (10-8 C50X-S) | 1 |
| 43 | 06-045500 | | 90° ELBOW, STRAIGHT THREAD (12-10 C50X-S) | 1 |
| 44 | 06-051800 | | 90° ELBOW, SWIVEL NUT (12 C6X-S) | 1 |
| 45 | 06-080500 | | 90° STREET ELBOW (1/2 CD-S) | 1 |
| 46 | 11-050023 | | 90° STREET ELBOW (1-1/2") | 2 |
| 47 | 06-012300 | | RUN TEE, MALE 37° TO NPT (12 RTX-S) | 1 |
| 48 | 06-054800 | | RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S) | 1 |
| 49 | 06-050000 | | BRANCH TEE, MALE "O"-RING (6 S50X-S) | 1 |
| 50 | 06-056300 | | BRANCH TEE, 37° FEMALE SWIVEL NUT (12 S6X-S) | 1 |
| 51 | 06-074900 | | ADAPTER TEE, PIPE THREAD (1/2 MRO-S) | 1 |
| 52 | | | PLUG, SQUARE HEAD (3/4" NPT) | 2 |
| 53 | 11-050050 | | PLUG, SQUARE HEAD (2" NPT) | 1 |
| 54 | 06-079800 | | PLUG, HEX SOCKET NPT (1/4 HHP-S) | 1 |
| 55 | 06-094900 | | PLUG, HEX SOCKET "O"-RING (5 HP50N-S) | 1 |

TITLE HYDRAULIC TANK ASSEMBLY, MP/ RP (WITH EXTENDABLE AXLES)

PLATE NO. C10.02 | **SIMON AERIALS INC.** REV. 20 JUN., 1994 | PART NO.

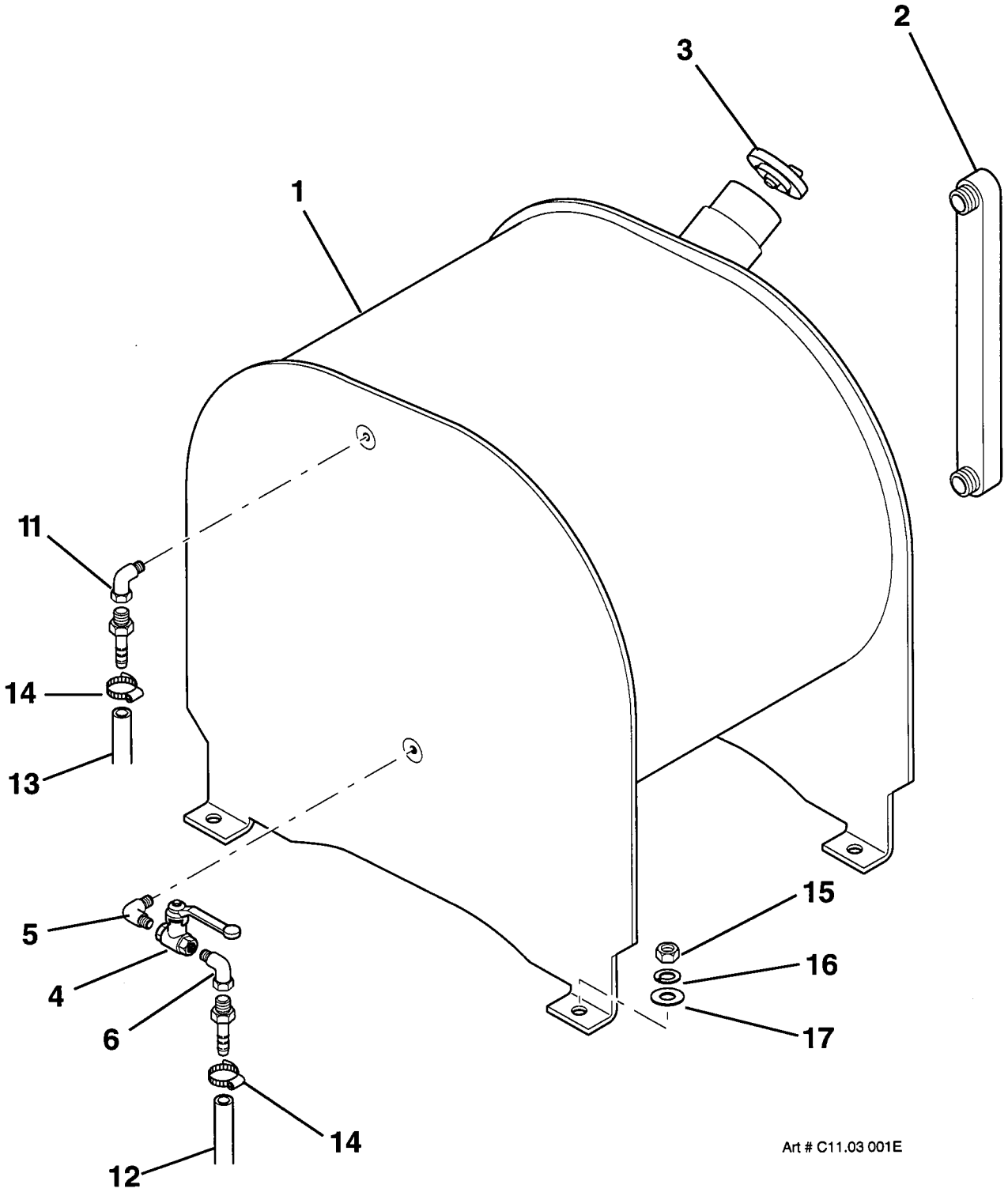



| TITLE | HYDRAULIC TANK ASSEMBLY, MP/ RP (WITH EXTENDABLE AXLES) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 20 JUN., 1994 | PART NO. | PLATE NO. C10.02 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | No part no. | | TANK ASSEMBLY, FUEL (for MPH 80, MPE 95, MPE 110) | |
| | 3505184 | | TANK ASSEMBLY, FUEL (for MP 80N only) | |
| | | | [Capacity 57 gallons (216 liters) to top of sight gauge] | 1 |
| 1 | 2089359 | | TANK WELDMENT, FUEL (MPH 80, MPE 95, MPE 110) | |
| | | | **Note:** overall height of tank is 32.25" (81.91 cm). | 1 |
| | 2074887 | | TANK WELDMENT, FUEL (for MP 80N only) | |
| | | | **Note:** overall height of tank is 33.5" (85.09 cm). | 1 |
| 2 | 10-033800 | D12.05 | GAUGE, SIGHT [14" (35.56 cm) long] | 1 |
| 3 | 10-001900 | | CAP, FUEL TANK FILLER (Vented, Anti-surge) | 1 |
| 4 | 01-032800 | | VALVE, SHUTOFF (1/4" NPT) | 1 |
| | | | The following items may be found on a typical installation: | |
| 5 | 06-082500 | | 90° ELBOW, MALE PIPE THREAD (1/4 CR-S) | 1 |
| 6 | 06-080200 | | 90° STREET ELBOW (1/4 CD-S) | 1 |
| 7 | 11-050401 | | FITTING, HOSE | |
| | | | (Brass, barbed, 1/4" I.D. hose, 1/4" male NPT thread) | 1 |
| 8 | 11-050403 | | FITTING, HOSE | |
| | | | (Brass, barbed, 5/16" I.D. hose, 1/4" male NPT thread) | 1 |
| 9 | 11-050405 | | FITTING, HOSE | |
| | | | (Brass, barbed, 1/8" I.D. hose, 1/8" male NPT thread) | 1 |
| 10 | 11-050200 | | BUSHING, REDUCER (1/4" male to 1/8" female) | 1 |
| 11 | 11-075400 | | PLUG, SQUARE HEAD (1/4" NPT) | |
| | | | (except Diesel engine) | 1 |
| | 06-080200 | | 90° STREET ELBOW (1/4 CD-S) (for Diesels) | 1 |
| | | | The items listed below **are not** part of Fuel Tank Assembly: | |
| 12 | | | HOSE, FUEL FEED (5/16" I.D.) | A.R. |
| 13 | | | HOSE, FUEL RETURN (1/4" I.D.) | A.R |
| 14 | 09-004600 | | CLAMP, HOSE (Worm type, 1/4" to 5/8") | 2 |
| 15 | 07-040018 | | NUT, HEX (1/2"-13, Grade 5) | 4 |
| 16 | 07-065018 | | WASHER, LOCK (1/2") | 4 |
| 17 | 07-062018 | | WASHER, FLAT (1/2") | 4 |

| | | | |
|---|---|---|---|
| TITLE | FUEL TANK ASSEMBLY, MP/ RP (W/ EXTENDABLE AXLES) | | |
| PLATE NO. C11.03 | **SIMON AERIALS INC.** | REV. 20 JUN., 1994 | PART NO. |



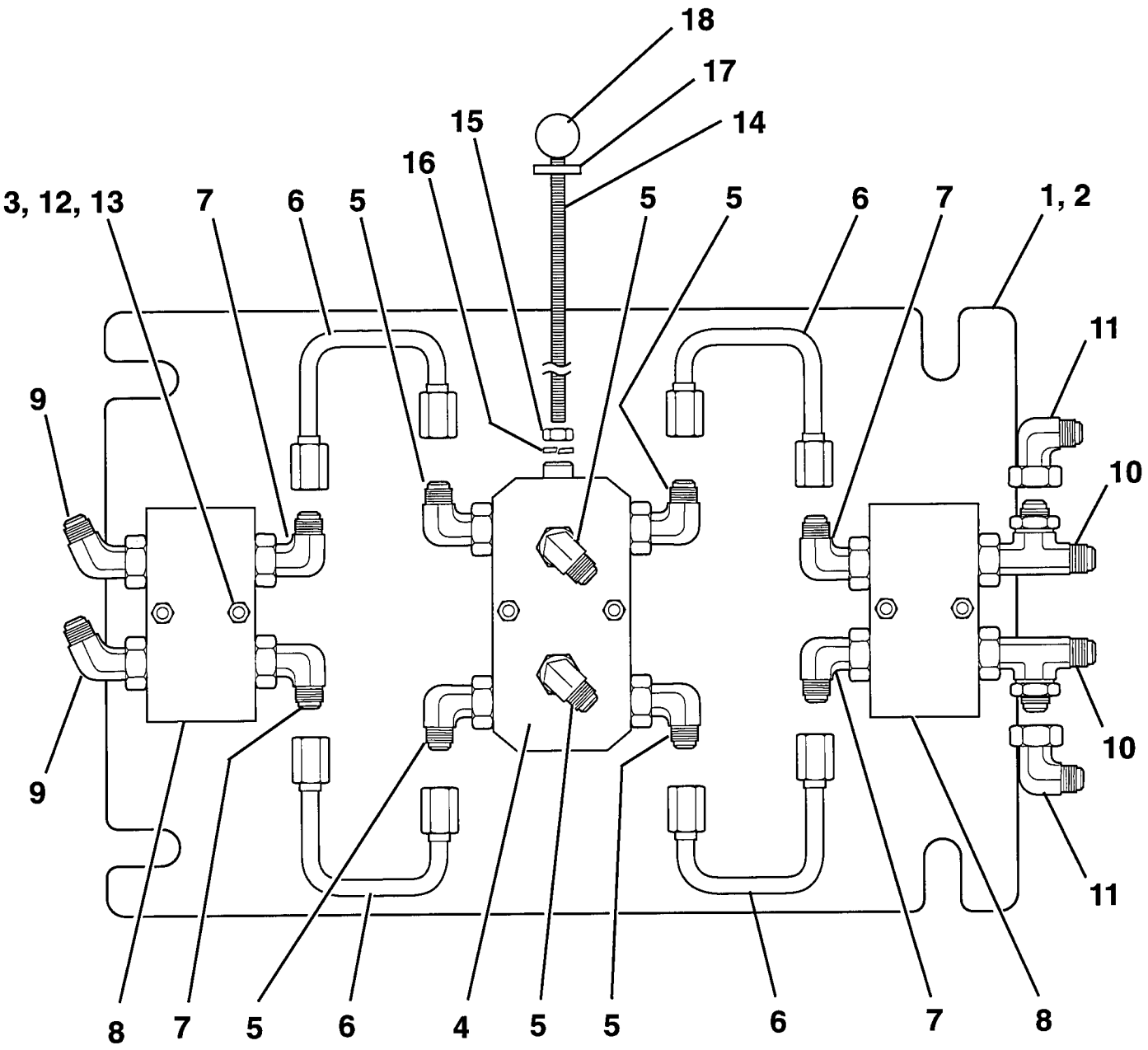

| TITLE | FUEL TANK ASSEMBLY, MP/ RP (W/ EXTENDABLE AXLES) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 20 JUN., 1994 | PART NO. | PLATE NO. C11.03 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 3516830 | | SELECTOR VALVE ASSEMBLY (Steer/ Axle extend) | 1 |
| 2 | 2027520 | | SUBPLATE | 1 |
| 3 | 07-031007 | | STUD, WELDING (Threaded, 5/16"-18 x 2-1/2") | 6 |
| 4 | 01-004500 | | VALVE, SELECTOR (Double parallel, #8 "O"-ring ports) | 1 |
| 5 | 06-044700 | | 90° ELBOW, STRAIGHT THREAD (6-8 C50X-S) | 6 |
| 6 | 3508851 | | TUBE ASSEMBLY | 4 |
| 7 | 06-044600 | | 90° ELBOW, STRAIGHT THREAD (6 C50X-S) | 4 |
| 8 | 01-001900 | | VALVE, CHECK (Pilot operated) | 2 |
| 9 | 06-047000 | | 45° ELBOW, STRAIGHT THREAD (6 V50X-S) (option) | 2 |
| | 06-039800 | | ADAPTER, "O"-RING TO 37° (6 F50X-S) (option) | 2 |
| 10 | 06-048500 | | RUN TEE, MALE "O"-RING (6 R50X-S) | 2 |
| 11 | 06-051500 | | 90° ELBOW, SWIVEL NUT (6 C6X) | 2 |
| 12 | 07-050015 | | NUT, LOCK (5/16"-18, Grade 5) | 6 |
| 13 | 07-062015 | | WASHER, FLAT (5/16") | 4 |
| 14 | 11-007004 | | ROD, THREADED (3/8"-16, Grade 2) (Bulk item, order as needed) [20" (508 mm) used in this application] | A.R. |
| 15 | 07-040016 | | NUT, HEX (3/8"-16, Grade 5) | 1 |
| 16 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 1 |
| | | | The following items **are not** part of the selector valve assembly: | |
| 17 | 2071215 | | GUIDE, VALVE ACTUATOR (welded to undercarriage) | 1 |
| 18 | 10-042400 | | KNOB, BALL (Plastic) | 1 |

TITLE STEER/ AXLE EXTEND VALVE ASSEMBLY, MP/ RP (EXTENDABLE AXLE)

| PLATE NO. | SIMON AERIALS INC. | PART NO. |
|---|---|---|
| C12.01 | REV. 16 JUN., 1994 | 3516830 |




Art # C12.01001E

TITLE STEER/ AXLE EXTEND VALVE ASSEMBLY, MP/ RP (EXTENDABLE AXLE)

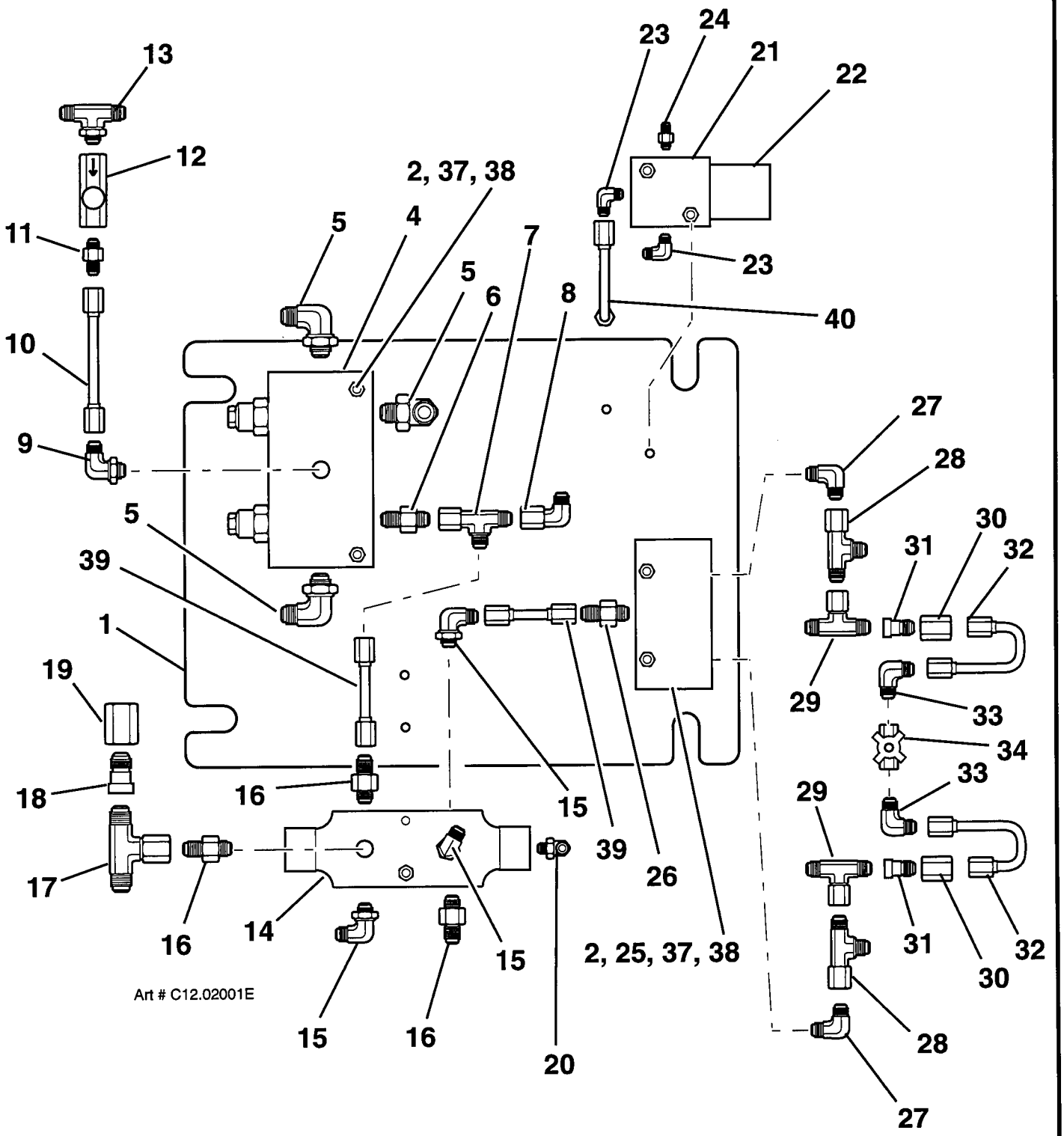
| SIMON AERIALS INC. | REV. 16 JUN., 1994 | PART NO. 3516830 | PLATE NO. C12.01 |
|---|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 2027520 | | PLATE, VALVE MOUNTING | 1 |
| 2 | 07-031018 | | STUD, WELDING (Threaded, 3/8"-16 x 3") | 3 |
| 3 | 07-031021 | | STUD, WELDING (Threaded, 1/4"-20 x 2") | 2 |
| 4 | | | VALVE, MOTION CONTROL (10:1 pilot ratio) | |
| | 01-013100 | | "CBGHL **D** NYKM" [2,000 PSI (138 bar) (141 Kg/ $cm^2$)] | 1 |
| | 01-225900 | | "CBGHL **C** NYKM" [3,000 PSI (207 bar) (211 Kg/ $cm^2$)] | 1 |
| 5 | 06-045600 | | 90° ELBOW, STRAIGHT THREAD (12-16 C50X-S) | 3 |
| 6 | 06-041100 | | ADAPTER, "O"-RING TO 37° (12-16 F50X-S) | 1 |
| 7 | 06-021300 | | TEE, UNION (12 JTX-S) | 1 |
| 8 | 06-051800 | | 90° ELBOW, SWIVEL NUT (12 C6X-S) | 1 |
| 9 | 06-044500 | | 90° ELBOW, STRAIGHT THREAD (6-4 C50X-S) | 1 |
| 10 | 3507867 | | TUBE ASSEMBLY | 1 |
| 11 | 06-039800 | | ADAPTER, "O"-RING TO 37° (6 F50X-S) | 1 |
| 12 | 01-018900 | | VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports) | 1 |
| 13 | 06-050000 | | BRANCH TEE, MALE "O"-RING (6 S50X-S) | 1 |
| 14 | 01-062000 | | VALVE, SELECTOR (pilot operated, #12 Ports) | 1 |
| 15 | 06-045400 | | 90° ELBOW, STRAIGHT THREAD (12 C50X-S) | 3 |
| 16 | 06-040800 | | ADAPTER, "O"-RING TO 37° (12 F50X-S) | 3 |
| 17 | 06-056300 | | BRANCH TEE, 37° SWIVEL NUT (12 S6X-S) | 1 |
| 18 | 06-057800 | | NUT, TUBE (12 BTX-S) | 1 |
| 19 | 06-060800 | | REDUCER, TUBE END (12-6 TRTX-S) | 1 |
| 20 | 06-044500 | | 90° ELBOW, STRAIGHT THREAD (6-4 C50X-S) (option) | 1 |
| | 06-191900 | | ADAPTER, "O"-RING TO 37° (6-4 F50X-S) (option) | 1 |
| 21 | 01-037100 | | VALVE, SOLENOID (Three way) (2 speed valve) | 1 |
| 22 | 01-037198 | | COIL, SOLENOID (12 Volt DC) | 1 |
| 23 | 06-044600 | | 90° ELBOW, STRAIGHT THREAD (6 C50X-S) | 2 |
| 24 | 06-039800 | | ADAPTER, "O"-RING TO 37° (6 F50X-S) | 1 |

TITLE DRIVE VALVE ASSEMBLY, MP/ RP E (2 WHEEL DRIVE, WITHOUT 2 SPEED)

| PLATE NO. | | PART NO. |
|---|---|---|
| C12.02 | **SIMON AERIALS INC.** REV. 17 JUN., 1994 | |




TITLE DRIVE VALVE ASSEMBLY, MP/ RP E (2 WHEEL DRIVE, WITHOUT 2 SPEED)

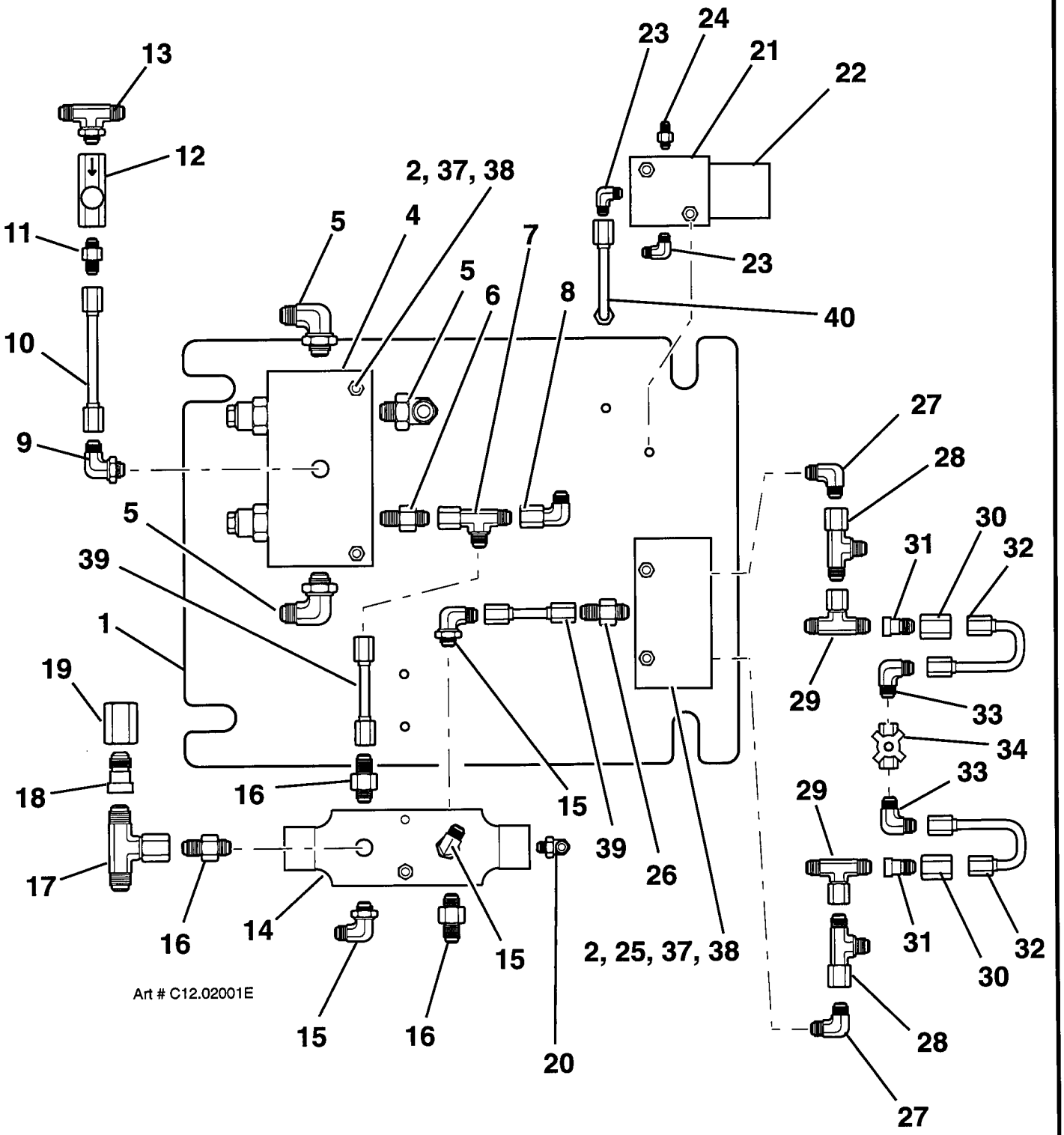
| SIMON AERIALS INC. | REV. 17 JUN., 1994 | PART NO. | PLATE NO. C12.02 |
|---|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 25 | 01-018300 | | VALVE, FLOW DIVIDER | 1 |
| 26 | 06-002000 | | CONNECTOR, MALE (12-16 FTX-S) | 1 |
| 27 | 06-012300 | | RUN TEE, MALE 37° TO NPT (12 RTX-S) (option) | 2 |
| | 06-004900 | | 90° ELBOW, MALE 37° TO NPT (12 CTX-S) (option) | 2 |
| 28 | 06-021300 | | TEE, UNION (12 JTX-S) (option) | 1 |
| | 06-054800 | | RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S) (option) | 2 |
| 29 | 06-056300 | | BRANCH TEE, 37° SWIVEL NUT (12 S6X-S) | 2 |
| 30 | 06-057800 | | NUT, TUBE (12 BTX-S) | 2 |
| 31 | 06-060800 | | REDUCER, TUBE END (12-6 TRTX-S) | 2 |
| 32 | 3508835 | | TUBE ASSEMBLY | 2 |
| 33 | 06-003800 | | 90° ELBOW, MALE 37° TO NPT (6 CTX-S) | 2 |
| 34 | 01-034800 | | VALVE, GLOBE (1/4" NPT Female thread, both ends) | 1 |
| 35 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 2 |
| 36 | 07-062015 | | WASHER, FLAT (5/16") | 2 |
| 37 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 3 |
| 38 | 07-062016 | | WASHER, FLAT (3/8") | 3 |
| 39 | 3507665 | | TUBE ASSEMBLY | 2 |
| 40 | 3508206 | | TUBE ASSEMBLY | 1 |

TITLE DRIVE VALVE ASSEMBLY, MP/ RP E (2 WHEEL DRIVE, WITHOUT 2 SPEED)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| C12.02 | **SIMON AERIALS INC.** | REV. 17 JUN., 1994 | |




TITLE DRIVE VALVE ASSEMBLY, MP/ RP E (2 WHEEL DRIVE, WITHOUT 2 SPEED)

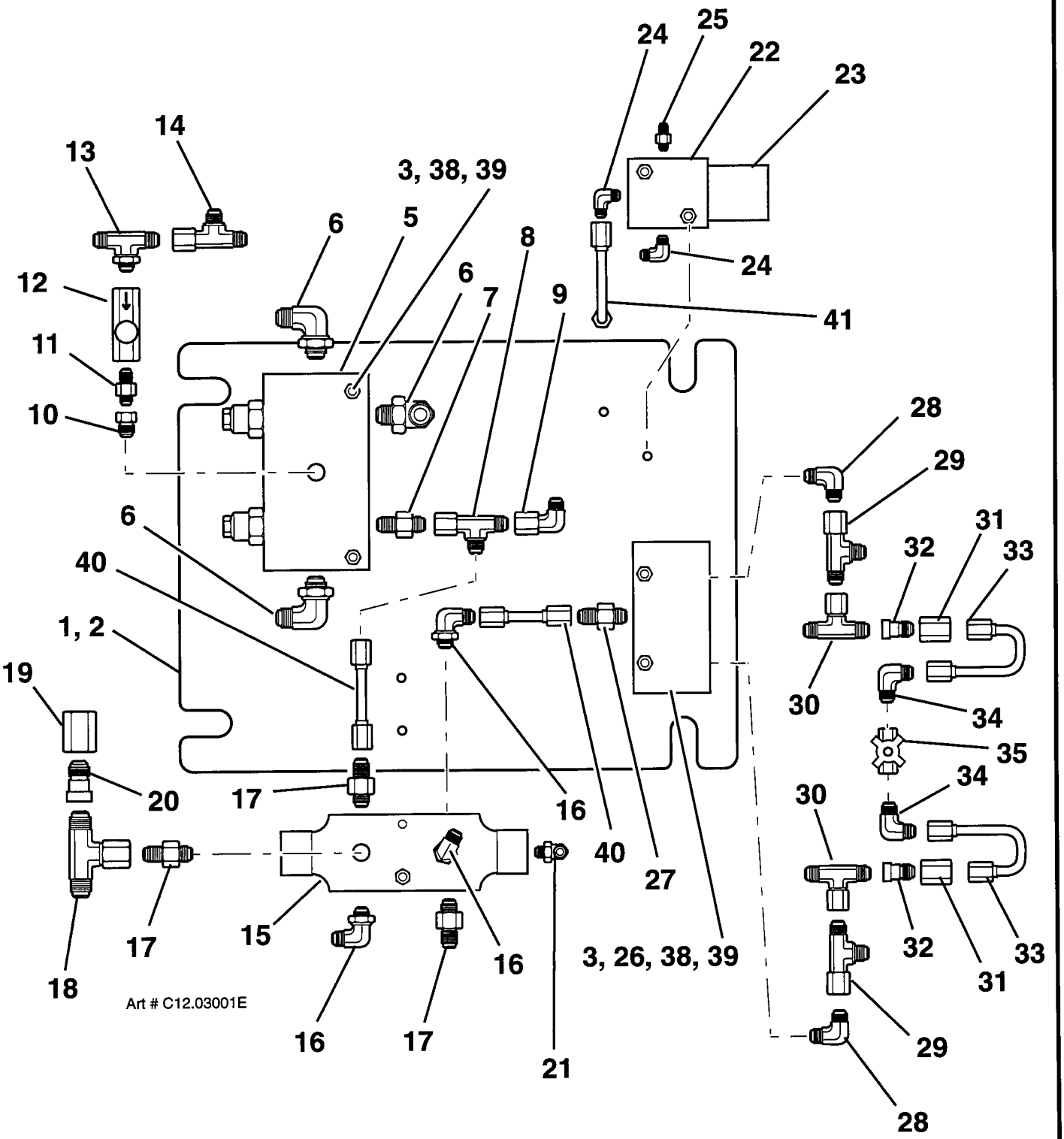
| SIMON AERIALS INC. | REV. 17 JUN., 1994 | PART NO. | PLATE NO. C12.02 |
|---|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 3516820 | | VALVE ASSEMBLY, DRIVE | 1 |
| 2 | 2027520 | | PLATE, VALVE MOUNTING | 1 |
| 3 | 07-031018 | | STUD, WELDING (Threaded, 3/8"-16 x 3") | 3 |
| 4 | 07-031021 | | STUD, WELDING (Threaded, 1/4"-20 x 2") | 2 |
| 5 | | | VALVE, MOTION CONTROL (10:1 pilot ratio) | |
| | 01-013100 | | "CBGHL **D** NYKM" [2,000 PSI (138 bar) (141 Kg/ $cm^2$)] | 1 |
| | 01-225900 | | "CBGHL **C** NYKM" [3,000 PSI (207 bar) (211 Kg/ $cm^2$)] | 1 |
| 6 | 06-045600 | | 90° ELBOW, STRAIGHT THREAD (12-16 C50X-S) | 3 |
| 7 | 06-041100 | | ADAPTER, "O"-RING TO 37° (12-16 F50X-S) | 1 |
| 8 | 06-054800 | | RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S) | 1 |
| 9 | 06-051800 | | 90° ELBOW, SWIVEL NUT (12 C6X-S) | 1 |
| 10 | 06-090200 | | REDUCER/ EXPANDER (4-6 F50 G5-S) | 1 |
| 11 | 06-096100 | | UNION (6 F50 F50-S) | 1 |
| 12 | 01-018900 | | VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports) | 1 |
| 13 | 06-050000 | | BRANCH TEE, MALE "O"-RING (6 S50X-S) | 1 |
| 14 | 06-054500 | | RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S) | 1 |
| 15 | 01-062000 | | VALVE, SELECTOR (pilot operated, #12 Ports) | 1 |
| 16 | 06-045400 | | 90° ELBOW, STRAIGHT THREAD (12 C50X-S) | 3 |
| 17 | 06-040800 | | ADAPTER, "O"-RING TO 37° (12 F50X-S) | 3 |
| 18 | 06-056300 | | BRANCH TEE, 37° SWIVEL NUT (12 S6X-S) | 1 |
| 19 | 06-057800 | | NUT, TUBE (12 BTX-S) | 1 |
| 20 | 06-060800 | | REDUCER, TUBE END (12-6 TRTX-S) | 1 |
| 21 | 06-044500 | | 90° ELBOW, STRAIGHT THREAD (6-4 C50X-S) | 1 |
| 22 | 01-037100 | | VALVE, SOLENOID (Three way) (2 speed valve) | 1 |
| 23 | 01-037198 | | COIL, SOLENOID (12 Volt DC) | 1 |
| 24 | 06-003800 | | 90° ELBOW, MALE 37° TO NPT(6 CTX-S) | 2 |
| 25 | 06-000700 | | CONNECTOR, MALE (6 FTX-S) | 1 |
| 26 | 01-018300 | | VALVE, FLOW DIVIDER | 1 |
| 27 | 06-002000 | | CONNECTOR, MALE (12-16 FTX-S) | 1 |
| 28 | 06-004900 | | 90° ELBOW, MALE 37° TO NPT (12 CTX-S) | 2 |
| 29 | 06-054800 | | RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S) | 2 |
| 30 | 06-056300 | | BRANCH TEE, 37° SWIVEL NUT (12 S6X-S) | 2 |
| 31 | 06-057800 | | NUT, TUBE (12 BTX-S) | 2 |
| 32 | 06-060800 | | REDUCER, TUBE END (12-6 TRTX-S) | 2 |
| 33 | 3508835 | | TUBE ASSEMBLY | 2 |
| 34 | 06-003800 | | 90° ELBOW, MALE 37° TO NPT (6 CTX-S) | 2 |
| 35 | 01-034800 | | VALVE, GLOBE (1/4" NPT Female thread, both ends) | 1 |
| 36 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 2 |
| 37 | 07-062015 | | WASHER, FLAT (5/16") | 2 |
| 38 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 3 |
| 39 | 07-062016 | | WASHER, FLAT (3/8") | 3 |
| 40 | 3507665 | | TUBE ASSEMBLY | 2 |
| 41 | 3508206 | | TUBE ASSEMBLY | 1 |

**TITLE** DRIVE VALVE ASSEMBLY, MP/ RP E (2 WHEEL DRIVE, 2 SPEED)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| C12.03 | **SIMON AERIALS INC.** | REV. 17 JUN., 1994 | |



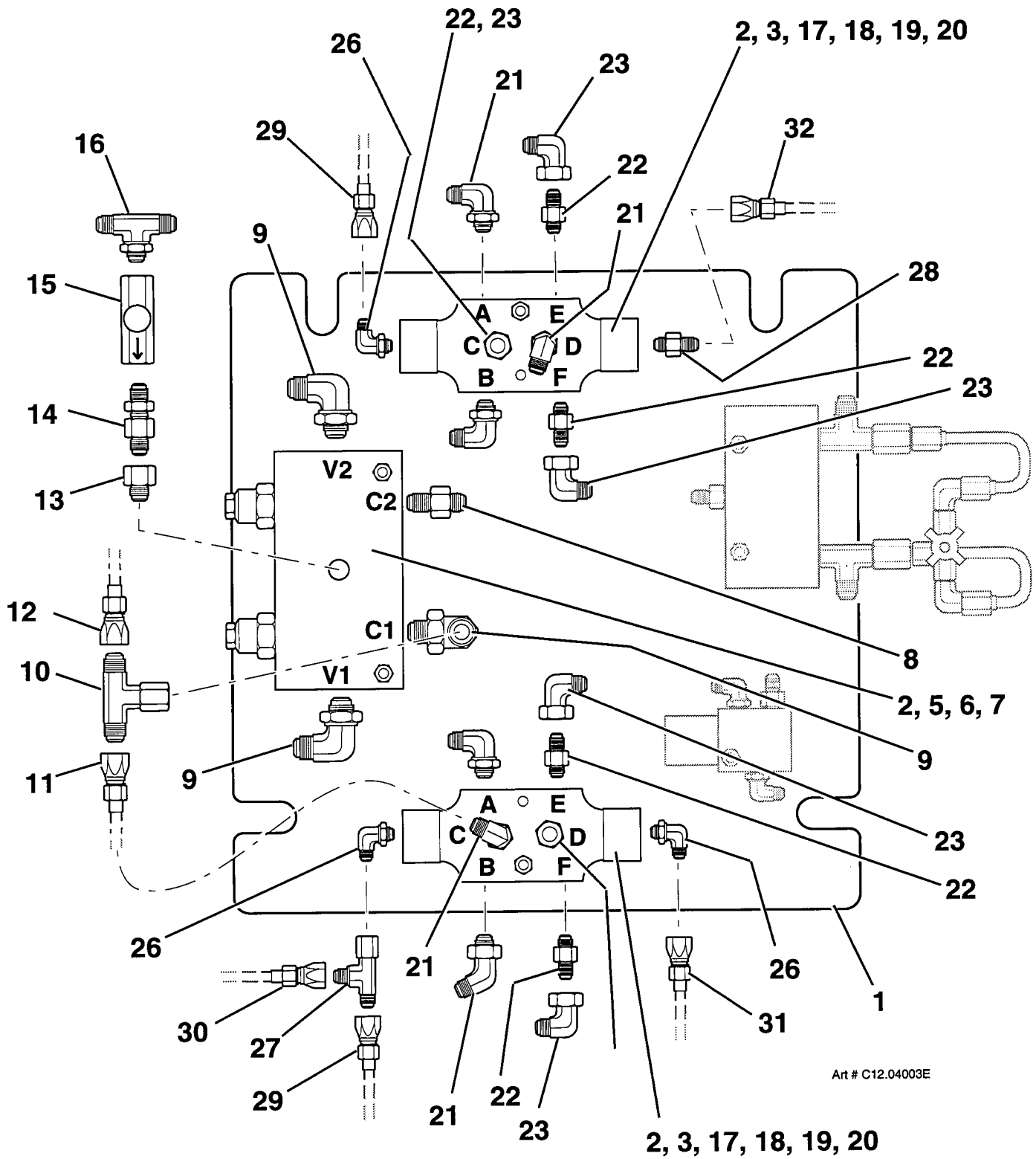

| | | | |
|---|---|---|---|
| TITLE | DRIVE VALVE ASSEMBLY, MP/ RP E (2 WHEEL DRIVE, 2 SPEED) | | |
| **SIMON AERIALS INC.** | REV. 17 JUN., 1994 | PART NO. | PLATE NO. C12.03 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | VALVE ASSEMBLY, DRIVE | 1 |
| | 352 2680 | | First type | |
| | 354 4500 | | Second type | |
| 1 | 202 7520 | | PLATE, VALVE MOUNTING | 1 |
| 2 | 07-031018 | | STUD, WELDING (Threaded, 3/8"-16 x 3") | 8 |
| 3 | 07-031008 | | STUD, WELDING (Threaded, 5/16"-18 x 2-1/2") | |
| | | | (for "**first type**" assembly) | 2 |
| 4 | 07-031021 | | STUD, WELDING (Threaded, 1/4"-20 x 2") | 2 |
| 5 | | | VALVE, MOTION CONTROL | 1 |
| | 01-013100 | | 10:1 pilot ratio (for "**first type**" assembly) | |
| | 01-225900 | | Pressure differential (for "**second type**" assembly) | |
| 6 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 2 |
| 7 | 07-062016 | | WASHER, FLAT (3/8") | 2 |
| 8 | 06-041100 | | ADAPTER, "O"-RING TO 37° (12-16 F5OX-S) | 1 |
| 9 | 06-045600 | | 90° ELBOW, "O"-RING TO 37° (12-16 C5OX-S) | 3 |
| 10 | 06-056300 | | BRANCH TEE, 37° FEMALE SWIVEL NUT (12 S6X-S) | 1 |
| 11 | 354 4510 | | TUBE ASSEMBLY (for "**second type**" assembly) | |
| | | | (**short** tube, from tee to Port "**C**" of one selector valve) | 1 |
| 12 | 354 4520 | | TUBE ASSEMBLY (for "**second type**" assembly) | |
| | | | (**long** tube, from tee to Port "**D**" of other selector valve) | 1 |
| 13 | 06-090200 | | REDUCER/ EXPANDER (4-6 F5O G5-S) | 1 |
| 14 | 06-096100 | | UNION (6 F5O F50-S) | 1 |
| 15 | 01-018900 | | VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports) | 1 |
| 16 | 06-050000 | | BRANCH TEE, MALE "O"-RING TO 37° (6 S5O X-S) | 1 |
| 17 | | | VALVE, HI/ LO SPEED DRIVE SELECTOR | 2 |
| | 01-018100 | | for "**first type**" assembly (can be identified by either a red paint spot or a stamped "**4**" on the housing) | |
| | 01-230500 | | for "**second type**" assembly (can be identified by a part number "**129256**" stamped on one end cap) | |
| 18 | 01-018101 | | SEAL KIT, SELECTOR VALVE (for "**first type**" valve) | 1 |
| | Call Simon | | SEAL KIT, SELECTOR VALVE (for "**second type**") | 1 |
| 19 | 07-050015 | | NUT, LOCK (5/16"-18, Grade 5) (for "**first type**" valve) | 2 |
| | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) (for "**second type**" valve) | 4 |
| 20 | 07-062015 | | WASHER, FLAT (5/16") (for "**first type**" valve) | 2 |
| | 07-062016 | | WASHER, FLAT (3/8") (for "**second type**" valve) | 4 |
| 21 | 06-045400 | | 90° ELBOW, "O"-RING TO 37° (12 C5OX-S) | 6 |
| | 06-047400 | | 45° ELBOW, "O"-RING TO 37° (12 V5OX-S) (optional) | A.R. |
| 22 | 06-040800 | | ADAPTER, "O"-RING TO 37° (12 F5OX-S) | 6 |
| 23 | 06-051800 | | 90° ELBOW, SWIVEL NUT (12 C6X-S) | 4 |
| 24 | 354 4540 | | TUBE ASSEMBLY (for "**second type**" assembly) | |
| | | | (from Port "**C**" of one selector valve to flow divider) | 1 |

**TITLE** DRIVE VALVE ASSEMBLY, MPH 80, MP 95, MP 110 (4 WHEEL DRIVE)

| PLATE NO. | | PART NO. |
|---|---|---|
| C12.04 | **SIMON AERIALS INC.** REV. 23 SEP., 1995 | |



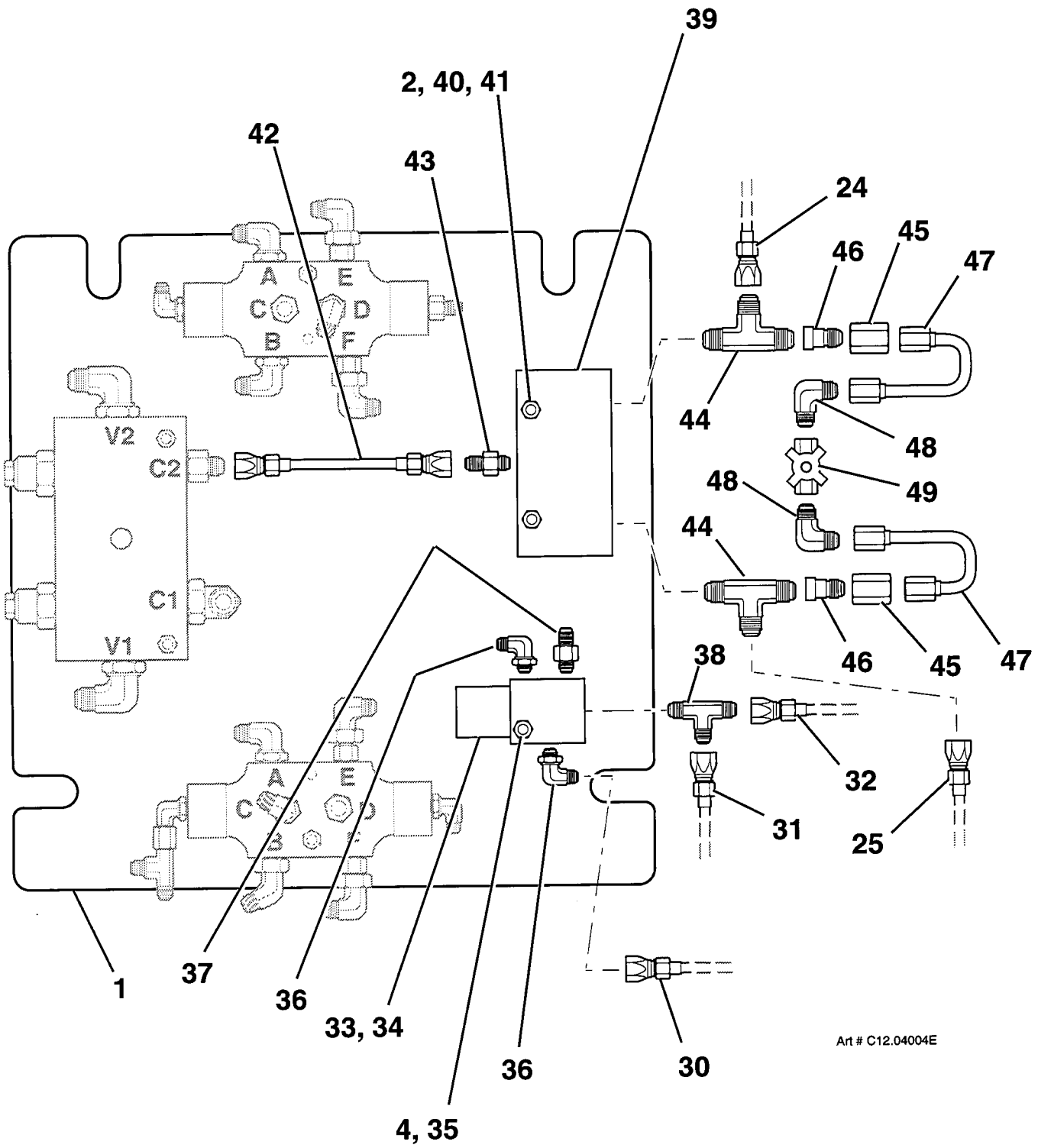

| | | | |
|---|---|---|---|
| TITLE | DRIVE VALVE ASSEMBLY, MPH 80, MP 95, MP 110 (4 WHEEL DRIVE) | | |
| **SIMON AERIALS INC.** | REV. 23 SEP., 1995 | PART NO. | PLATE NO. C12.04 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 25 | 354 4550 | | TUBE ASSEMBLY (for "**second type**" assembly) | |
| | | | (from Port "**D**" of other selector valve to flow divider) | 1 |
| 26 | 06-044500 | | 90° ELBOW, "O"-RING TO 37° (6-4 C5OX-S) | |
| | | | for "**first type**" assembly | 1 |
| | | | for "**second type**" assembly | 3 |
| 27 | 06-054500 | | RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S) | |
| | | | (for "**second type**" assembly) | 1 |
| 28 | 06-191900 | | CONNECTOR, STRAIGHT THREAD (6-4 F5OX-S) | 1 |
| 29 | 354 4590 | | TUBE ASSEMBLY (for "**second type**" assembly) | |
| | | | (selector valve to selector valve) | 1 |
| 30 | 354 4580 | | TUBE ASSEMBLY (for "**second type**" assembly) | |
| | | | (selector valve tee to solenoid valve elbow) | 1 |
| 31 | 354 4570 | | TUBE ASSEMBLY (for "**second type**" assembly) | |
| | | | (selector valve elbow to solenoid valve tee) | 1 |
| 32 | 354 4560 | | TUBE ASSEMBLY (for "**second type**" assembly) | |
| | | | (selector valve connector to solenoid valve tee) | 1 |
| 33 | | | VALVE, SOLENOID (2 speed valve) | 1 |
| | 01-037100 | | Three way valve (for "**first type**" assembly) | |
| | 01-230400 | | Four way valve (for "**second type**" assembly) | |
| 34 | 01-037198 | | COIL, SOLENOID (12 Volt DC) (for "**first type**" valve) | 1 |
| | Call Simon | | COIL, SOLENOID (12 Volt DC) (for "**second type**" valve) | 1 |
| 35 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 1 |
| 36 | | | 90° ELBOW, MALE | 2 |
| | 06-003800 | | 37° TO NPT (6 CTX-S) (for "**first type**" valve) | |
| | 06-044600 | | "O"-RING TO 37° (6 C5OX-S) (for "**second type**" valve) | |
| 37 | 06-039500 | | ADAPTER, "O"-RING TO 37° (4-6 F5OX-S) ("**second type**") | 1 |
| 38 | | | RUN TEE, MALE | 1 |
| | 06-012000 | | 37° TO NPT (6 RTX-S) (for "**first type**" valve) | |
| | 06-048500 | | "O"-RING TO 37° (6 R5OX-S) (for "**second type**" valve) | |
| 39 | 01-018300 | | VALVE, FLOW DIVIDER | 1 |
| 40 | 07-050016 | | NUT, LOCK (3/8"-16, Grade 5) | 2 |
| 41 | 07-062016 | | WASHER, FLAT (3/8") | 2 |
| 42 | 354 4530 | | TUBE ASSEMBLY (for "**second type**" assembly) | |
| | | | (Port "**C2**" of motion control valve to flow divider) | 1 |
| 43 | 06-002000 | | CONNECTOR, MALE (12-16 FTX) | 1 |
| 44 | 06-012300 | | RUN TEE, MALE (12 RTX) | 2 |
| 45 | 06-057800 | | NUT, TUBE (12 BTX) | 2 |
| 46 | 06-060800 | | REDUCER, TUBE END (12-6 TRTX) | 2 |
| 47 | 350 8835 | | TUBE ASSEMBLY | 2 |
| 48 | 06-003800 | | ELBOW, MALE (6 CTX) | 2 |
| 49 | 01-034800 | | VALVE, GLOBE (1/4" NPT Female thread, both ends) | 1 |

**TITLE** DRIVE VALVE ASSEMBLY, MPH 80, MP 95, MP 110 (4 WHEEL DRIVE)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| C12.04 | **SIMON AERIALS INC.** | REV. 23 SEP., 1995 | |



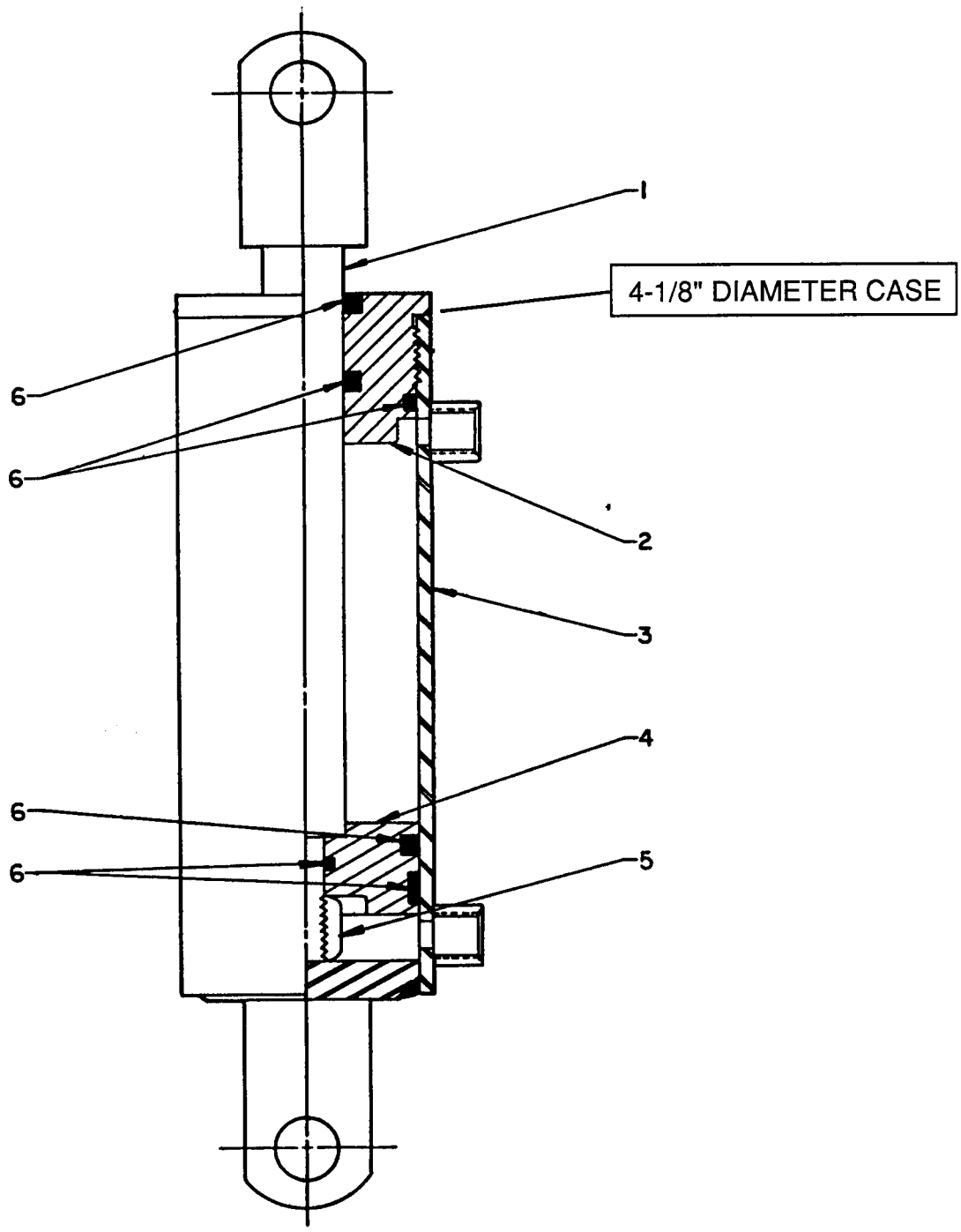

| | | | |
|---|---|---|---|
| TITLE | DRIVE VALVE ASSEMBLY, MPH 80, MP 95, MP 110 (4 WHEEL DRIVE) | | |
| **SIMON AERIALS INC.** | REV. 23 SEP., 1995 | PART NO. | PLATE NO. C12.04 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 04-008902 | | ROD ASSEMBLY, PISTON (includes clevis) | 1 |
| 2 | 04-008903 | | GUIDE, PISTON ROD (Head gland) | 1 |
| 3 | | | BODY, CYLINDER (Case) | 1 |
| 4 | 04-008904 | | PISTON | 1 |
| 5 | | | NUT, LOCK | 1 |
| 6 | 04-008901 | | SEAL KIT | 1 |

TITLE: STEER CYLINDER

PLATE NO. D01.01 | **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. 04-008900

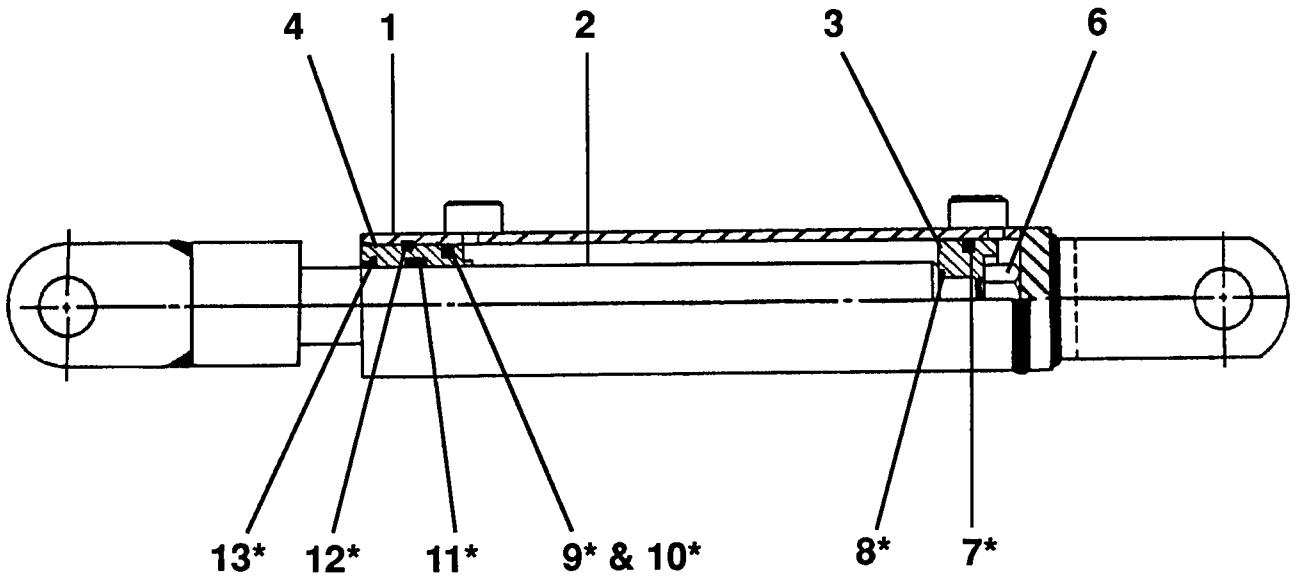



| TITLE | STEER CYLINDER | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 08/01/90 | PART NO. 04-008900 | PLATE NO. D01.01 | |

# PARTS LIST

| ITEM | PART NO | SEE SECT. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | TUBE ASSEMBLY | 1 |
| 2 | 2094919 | | ROD | 1 |
| 3 | | | PISTON | 1 |
| 4 | | | GLAND | 1 |
| 5 | | | CLEVIS ASSEMBLY (NOT SHOWN) | 1 |
| 6 | | | LOCKNUT | 1 |
| 7* | | | URETHANE SEAL ASSEMBLY | 1 |
| 8* | | | 'O' RING | 1 |
| 9* | | | 'O' RING | 1 |
| 10* | | | BACKUP WASHER | 1 |
| 11* | | | U CUP | 1 |
| 12 | | | SQUARE RETAINING RING | 1 |
| 13* | | | WIPER | 1 |
| 14 | 04-011201 | | SEAL KIT | 1 |
| | | | **Note:** Items in seal kit identified by asterisk (*). | |

| | | | | | |
|---|---|---|---|---|---|
| TITLE | STEER CYLINDER | | | | |
| PLATE NO. | D01.08 | **SIMON AERIALS INC.** | REV. 10/23/90 | PART NO. | 04-011200 |

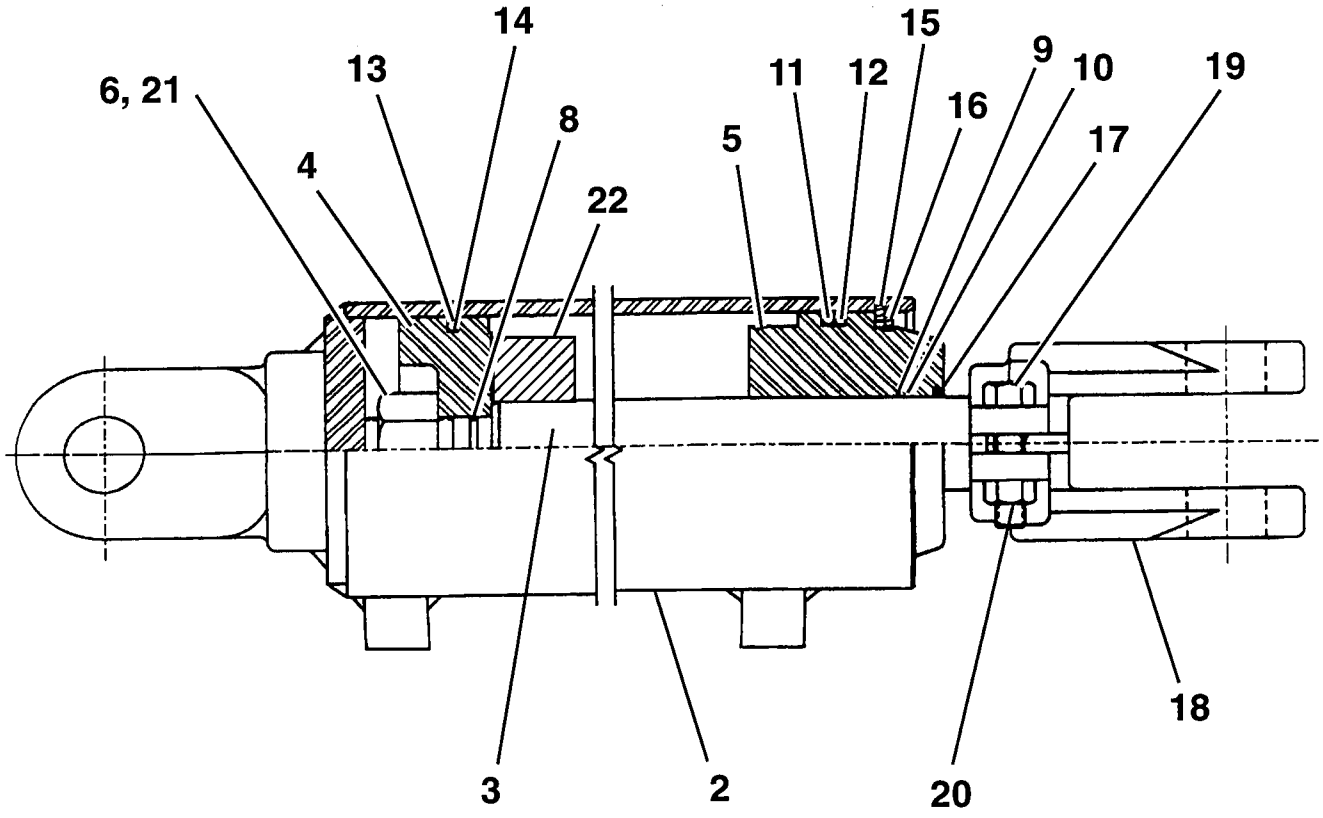



| TITLE | STEER CYLINDER | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 10/23/90 | PART NO. 04-011200 | PLATE NO. D01.08 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | STEER CYLINDER ASSEMBLY<br>[7-1/2" (190 mm) stroke, 3-1/2" (89 mm) bore,<br>1-1/4" (31.8 mm) rod, (2) 9/16"-18 UNF "O"-Ring ports]. | |
| | 04-033200 | | **Standard** cylinder, for all models except as listed below. | 1 |
| | | | **Modified** cylinder (with spacers installed), for . . . | |
| | 2171750 | | model **MPH 60**, serial no. **AKA 00101** and prior. | 1 |
| | 2171750 | | model **MP 80**, serial no. **AEA 01389** and prior. | 1 |
| | 2171750 | | model **MP 80**, serial no. **AEA 01391, 1392, 1393.** | 1 |
| | 2171750 | | **some four wheel drive** models **MPH 80, MPE 95** or **MPE 110** built in late 1990 (please consult factory, and provide serial number of your machine). | 1 |
| | Call Simon | | **some two wheel drive** models **MPE 110** (consult factory, and provide serial number of your machine). | 1 |
| 2 | | | BODY, CYLINDER | 1 |
| 3 | 04-033202 | | ROD, CYLINDER | 1 |
| 4 | | | PISTON, [3-1/2" (88.9 mm) dia.] | 1 |
| 5 | | | GUIDE, PISTON ROD | 1 |
| 6 | | | NUT, LOCK (7/8"-14) (replaced by item 21 some models) | 1 |
| 7 | 04-033201 | | SEAL KIT | 1 |
| 8 | | | O-RING | 1 |
| 9 | | | SEAL | 1 |
| 10 | | | WASHER, BACKUP | 1 |
| 11 | | | O-RING | 1 |
| 12 | | | WASHER, BACKUP | 1 |
| 13 | | | O-RING | 1 |
| 14 | | | RING, PISTON | 1 |
| 15 | | | RING, RETAINING (interior) | 1 |
| 16 | | | RING, RETAINING (exterior) | 1 |
| 17 | | | WIPER, ROD | 1 |
| 18 | 04-035305 | | ROD CLEVIS | 1 |
| 19 | | | CAP SCREW, HEX HEAD (3/8"-16 x 3/4") | 1 |
| 20 | | | NUT, HEX (3/8"-16) | 1 |
| | | | The following items are required on certain units (see above): | |
| 21 | | | SPACER, BASE (replaces lock nut, item 6) | |
| | 2171720 | | [1-5/8" (41 mm) long] for cylinder assembly 2171750 | 1 |
| | 2178280 | | [1-9/16" (40 mm) long] for cylinder assembly "Call Simon" | 1 |
| 22 | | | SPACER, ROD | |
| | 2171740 | | [.63" (16 mm) thick] for cylinder assembly 2171750 | 1 |
| | 2178300 | | [.63" (16 mm) thick] for cylinder assembly "Call Simon" | 1 |

| TITLE | STEER CYLINDER | |
|---|---|---|
| PLATE NO. D01.10 | **SIMON AERIALS INC.** REV. 13 MAY, 1994 | PART NO. |




| TITLE | STEER CYLINDER | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 13 MAY, 1994 | | PART NO. | PLATE NO. D01.10 |

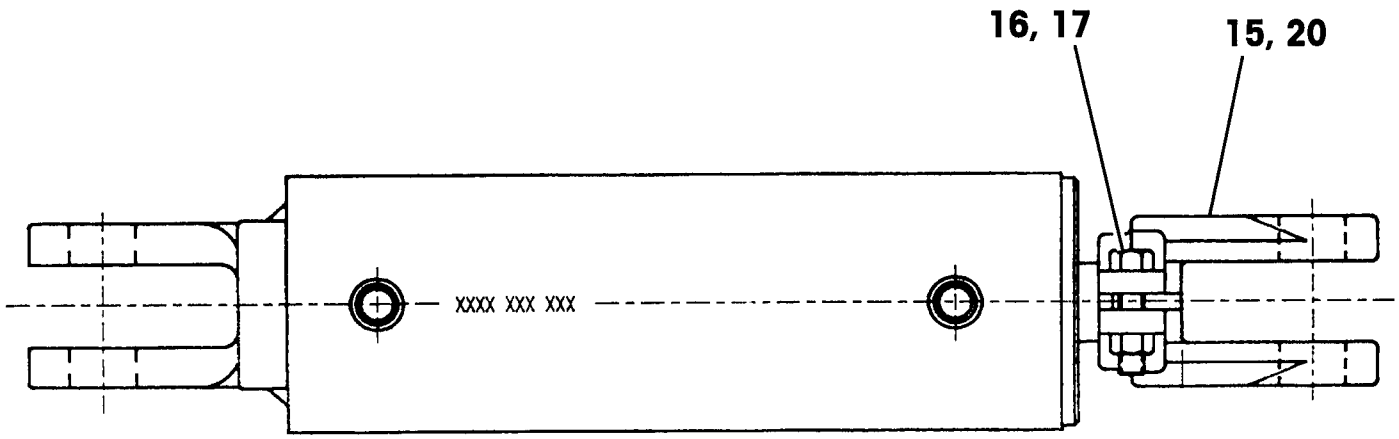
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | STEER CYLINDER ASSEMBLY (7-1/2" [190 mm] stroke, 3-1/2" [89 mm] bore, 1-1/4" [31.8 mm] rod, [2] 9/16"-18 UNF "O"-Ring ports). | |
| | 04-035300 | | **Standard** cylinder, for all models except as listed below. | 1 |
| | 232 8190 | | **Modified** cylinder (drilled for "L" shaped keeper pins), for models MPH 80, MP 95, MP 110 after Jan., 1994. | 1 |
| | 217 4010 | | **Modified** cylinder (with spacers installed), for models MPH 60, MP 60Z, MP 70 or MP 80, and **all four wheel drive versions.** | 1 |
| 2 | | | BODY, CYLINDER | 1 |
| 3 | 04-035302 | | ROD, CYLINDER | 1 |
| 4 | 04-035303 | | PISTON | 1 |
| 5 | | | GUIDE, PISTON ROD | 1 |
| 6 | 04-035304 | | NUT, LOCK (7/8"-14) (replaced by item 18 for some models) | 1 |
| 7 | 04-035301 | | SEAL KIT | 1 |
| 8 | | | SEAL, "O"-RING (3/4" [19 mm] I.D.) | 1 |
| 9 | | | SEAL, "DURA-PAK" (3-1/2" [89 mm] O.D.) | 1 |
| 10 | | | SEAL, "U" CUP (1-1/4" [32 mm] I.D.) | 1 |
| 11 | | | RING, WIPER (1-1/4" [32 mm] I.D.) | 1 |
| 12 | | | SEAL, "O"-RING (3-1/2" [89 mm] O.D.) | 1 |
| 13 | | | RING, BACKUP | 1 |
| 14 | | | RING, RETAINING (Round) | 1 |
| 15 | 04-035305 | | CLEVIS, ROD (without hole for keeper pin) (replaced by item 20 for some models) | 1 |
| 16 | 07-003048 | | CAP SCREW, HEX HEAD (3/8"-16 x 1-3/4", Grade 5) | 1 |
| 17 | 07-040016 | | NUT, HEX (3/8"-16, Grade 5) | 1 |
| | | | The following items are required on certain units (see above): | |
| 18 | 217 1710 | | SPACER, BASE (replaces lock nut, item 6) (1-3/16" [30 mm] long) for cylinder assembly 217 4010 | 1 |
| 19 | 217 1730 | | SPACER, ROD (.19" [4.8 mm] thick) for cylinder assembly 217 4010 | 1 |
| 20 | No part # | | CLEVIS, ROD (04-035305 drilled for keeper pin, for cylinder 232 8190. Please specify modified clevis required.) | 1 |
| | | | | |
| | | | | |

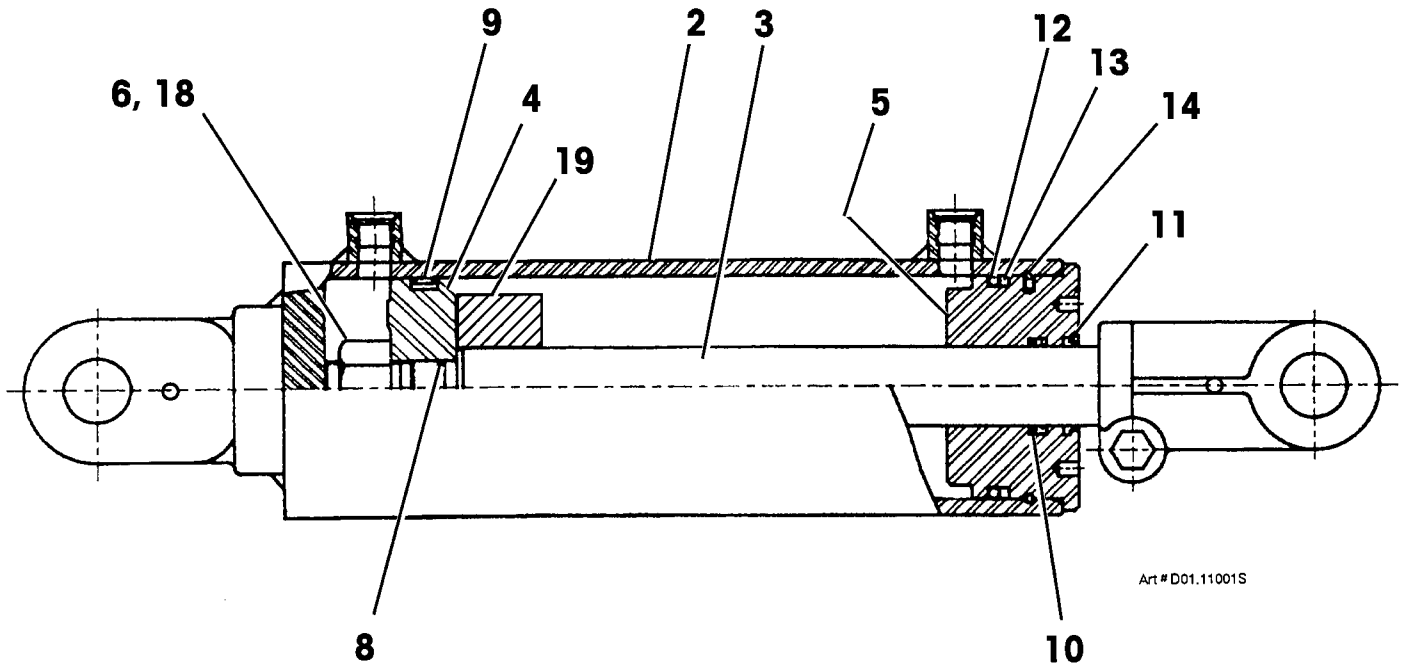
TITLE: STEER CYLINDER

SECTION D01 | PLATE NO. 11 | PAGE 01 | REV. - | DATED 15 JUN, 1994 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172




Art # D01.11002S




Art # D01.11001S

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172

| TITLE | | | | | |
|---|---|---|---|---|---|
| STEER CYLINDER | | | | | |
| PART NO. | REV. - | DATED 15 JUN, 1994 | SECTION D01. | PLATE NO. 11 | PAGE 01 |

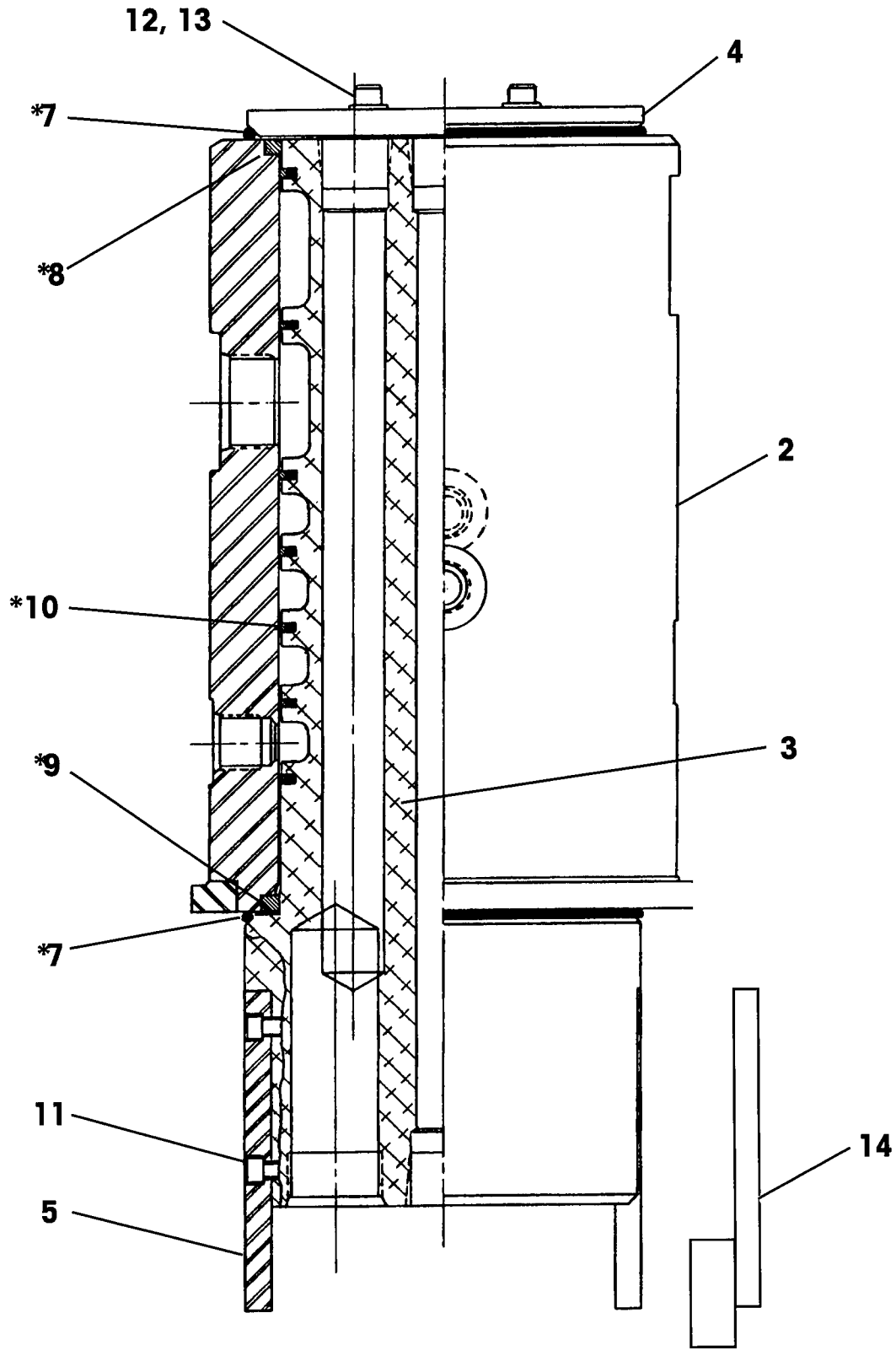
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | HYDRAULIC SWIVEL | 1 |
| | 04-008700 | | For all versions except as listed below | |
| | 235 1600 | | For Model RP 86 | |
| 2 | | | HOUSING, HYDRAULIC SWIVEL | 1 |
| 3 | | | SPOOL | 1 |
| 4 | | | RETAINER PLATE | 1 |
| 5 | | | ARM, TORQUE | 2 |
| | 04-008703 | | Standard 8" (203 mm) long arm for Swivel 04-008700 | |
| | 236 0930 | | 4" (102 mm) long arm for Hydraulic Swivel 235 1600 | |
| 6 | 04-008702 | | SERVICE KIT, HYDRAULIC SWIVEL | 1 |
| | | | **Note:** Items in service kit identified by asterisk (*). | |
| 7* | | | "O"-RING | 2 |
| 8* | | | RING, WEAR | 1 |
| 9* | | | RING, WEAR | 1 |
| 10* | 04-008701 | | SEAL KIT (consists of [7] "O"-Rings and [7] Slipper seals) | 1 |
| 11 | 04-008704 | | CAP SCREW, SOCKET HEAD | 4 |
| 12 | | | CAP SCREW, SOCKET HEAD | 4 |
| 13 | | | WASHER, LOCK | 4 |
| | | | The following item **is not** included with Hydraulic Swivel 04-008700, but replaces Item #5 in some applications: | |
| 14 | 210 1030 | | STOP, SWIVEL | 2 |
| | | | The following items **are not** included with Hydraulic Swivel 04-008700 or 235 1600: | |
| 15 | 06-192200 | | HOSE FITTING (S2102-8-8) | |
| | | | (For center port on **some versions** of Model MP 80 and smaller) | 1 |
| 16 | 06-071400 | | REDUCER, PIPE THREAD (3/4 x 1/2 PTR-S) | |
| | | | (For center port on Model MPH 80, MP 95, MP 110 and RP 120) | 1 |

TITLE: HYDRAULIC SWIVEL

SECTION D02. | PLATE NO. 01 | PAGE 01 | REV. - | DATED 22 APR., 1996 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172




**Note: Items in service kit identified by asterisk (*)**

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
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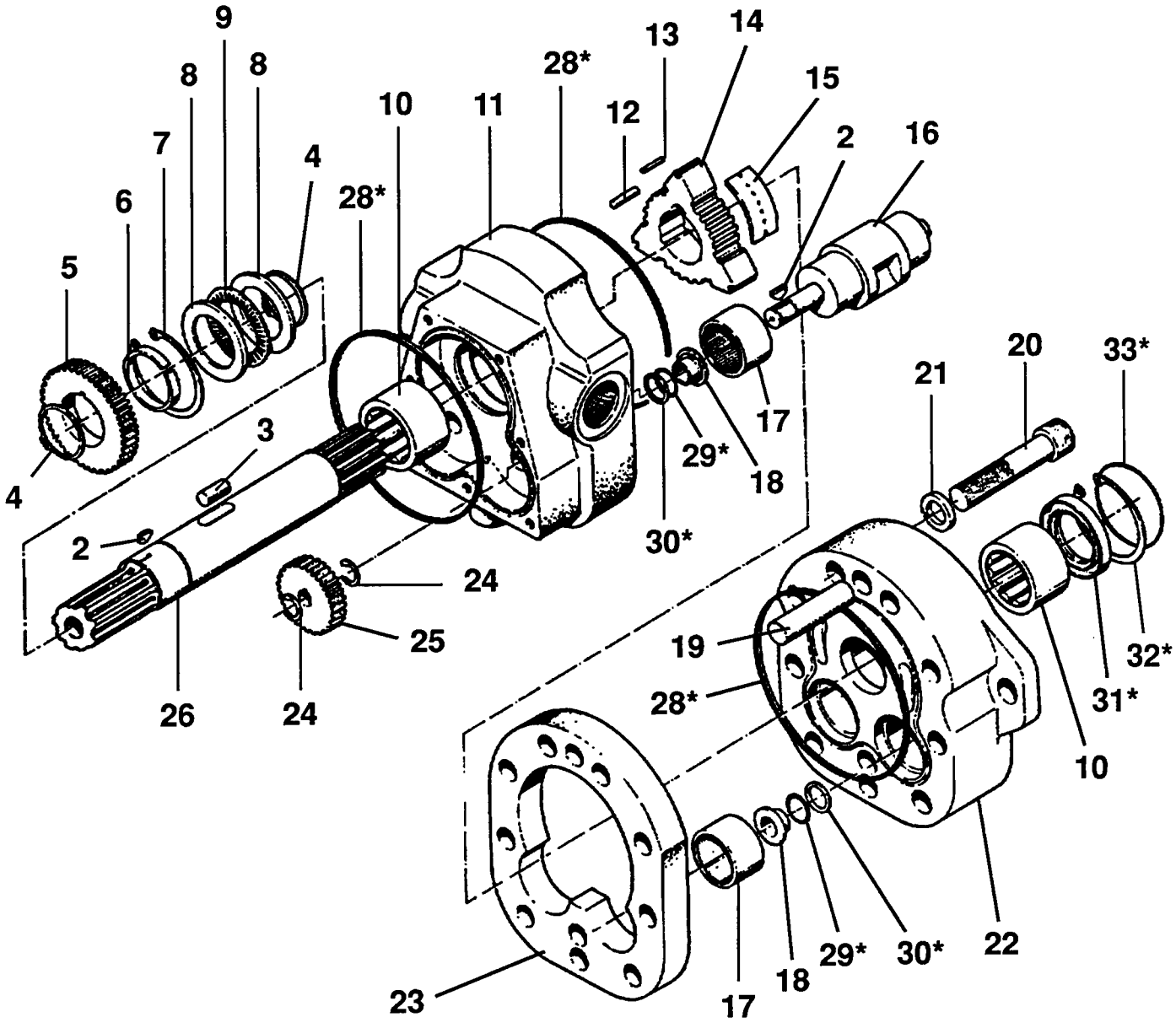
| TITLE | | | | | |
|---|---|---|---|---|---|
| HYDRAULIC SWIVEL | | | | | |
| PART NO. | REV. - | DATED 22 APR., 1996 | SECTION D02. | PLATE NO. 01 | PAGE 01 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-000446 | | MOTOR ASSEMBLY (See plate 2 of 2 for brake) | 1 |
| 2 | 01-000430 | | KEY, WOODRUFF | 3 |
| 3 | 01-000421 | | PIN, DRIVE | 1 |
| 4 | 01-000443 | | RING, RETAINING | 2 |
| 5 | 01-000439 | | GEAR, DRIVE | 1 |
| 6 | 01-000431 | | WASHER, SPACER | 1 |
| 7 | 01-000444 | | RING, RETAINING | 1 |
| 8 | 01-000423 | | RACE, BEARING | 2 |
| 9 | 01-000422 | | BEARING, THRUST | 1 |
| 10 | 01-000436 | | BEARING, NEEDLE | 2 |
| 11 | 01-000437 | | CAP, END (Rear) | 1 |
| 12 | 01-000432 | | ROLLER, TIP SEAL [2" (50.8 mm) long] | 3 |
| 13 | 01-000433 | | ROLLER, BODY SEAL [2" (50.8 mm) long] | 18 |
| 14 | 01-000419 | | ROTOR [2" (50.8 mm) long] | 1 |
| 15 | 01-000427 | | PLATE, SEAL [2" (50.8 mm) long] | 3 |
| 16 | 01-000426 | | VALVE, ABUTMENT | 2 |
| 17 | 01-000438 | | BEARING, NEEDLE | 4 |
| 18 | 01-000425 | | BEARING, STEP | 4 |
| 19 | 01-000424 | | PIN, DOWEL | 2 |
| 20 | 07-008056 | | CAP SCREW, SOCKET HEAD (3/8"-16 x 3-3/4", Grade 8) | 9 |
| 21 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 9 |
| 22 | 01-000440 | | CAP, END (Front) (SAE "B") | 1 |
| 23 | 01-000429 | | HOUSING, DISPLACEMENT | 1 |
| 24 | 01-000442 | | RING, RETAINING | 4 |
| 25 | 01-000420 | | GEAR, PINION | 2 |
| 26 | 01-000417 | | SHAFT, MOTOR (Spline both ends, for use with brake) | 1 |
| 27 | 01-000401 | | SEAL KIT, MOTOR | 1 |
| | | | **Note:** Items included in seal kit marked by asterisk (*) | |
| 28 | 01-000408 | | SEAL, OIL | 3 |
| 29 | 01-000441 | | "O"-RING | 4 |
| 30 | 01-000428 | | RING, BACK UP | 4 |
| 31 | 01-000407 | | SEAL, SHAFT | 1 |
| 32 | 01-000445 | | RING, RETAINING | 1 |
| 33 | 01-000406 | | "O"-RING | 1 |

TITLE WHEEL MOTOR/ BRAKE (MOTOR, 4 IN.$^3$, PLATE 1 OF 2)

PLATE NO. D03.02 | **SIMON AERIALS INC.** REV. 7/19/91 | PART NO. 01-004800

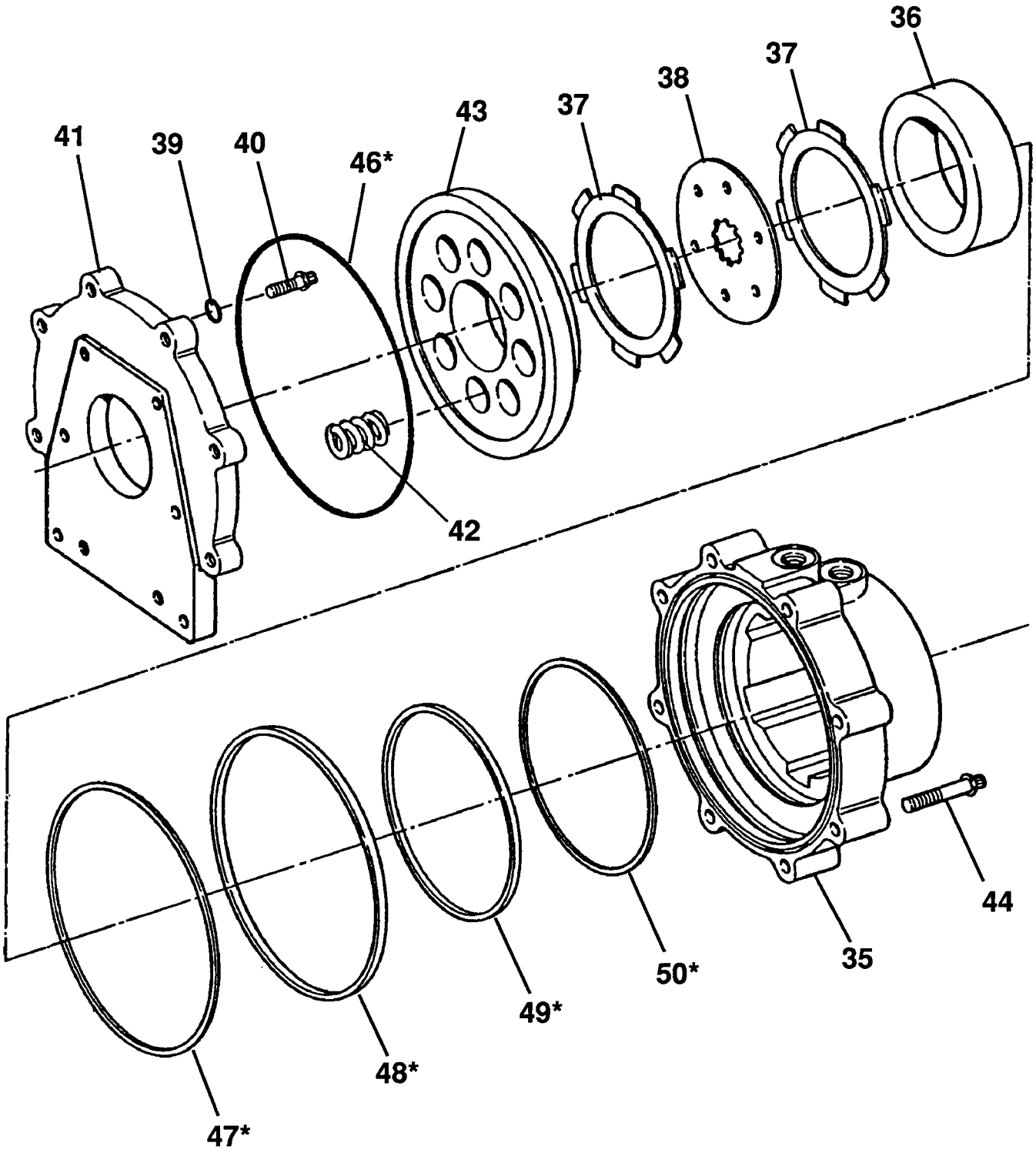



| TITLE | WHEEL MOTOR/ BRAKE (MOTOR, 4 IN.$^3$, PLATE 1 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 7/19/91 | PART NO. 01-004800 | PLATE NO. D03.02 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 34 | 01-004802 | | BRAKE ASSEMBLY (See plate 1 of 2 for motor) | 1 |
| 35 | 01-000434 | | HOUSING | 1 |
| 36 | 01-004801 | | SPACER | 1 |
| 37 | 01-000410 | | DISC, FRICTION | 7 |
| 38 | 01-000411 | | PLATE, DRIVE | 6 |
| 39 | 01-000405 | | WASHER, BRASS | 7 |
| 40 | 07-008003 | | CAP SCREW, SOCKET HEAD (1/4"-20 x 3/4", Grade 8) | 7 |
| 41 | 01-000403 | | PLATE, ADAPTER | 1 |
| 42 | 01-000412 | | SPRING, DIE | 8 |
| 43 | 01-000413 | | PLATE, PRESSURE | 1 |
| 44 | 07-008027 | | CAP SCREW, SOCKET HEAD (5/16"-18 x 5/8") | 8 |
| 45 | 01-000402 | | SEAL KIT, BRAKE | 1 |
| | | | **Note:** Items included in seal kit marked by asterisk (*) | |
| 46 | 01-000404 | | "O"-RING | 1 |
| 47 | 01-000414 | | RING, BACK UP | 1 |
| 48 | 01-000415 | | RING, QUAD | 1 |
| 49 | 01-000418 | | RING, QUAD | 1 |
| 50 | 01-000416 | | RING, BACK UP | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2) | | | |
| PLATE NO. D03.02 | **SIMON AERIALS INC.** | REV. 7/19/91 | PART NO. 01-004800 | |



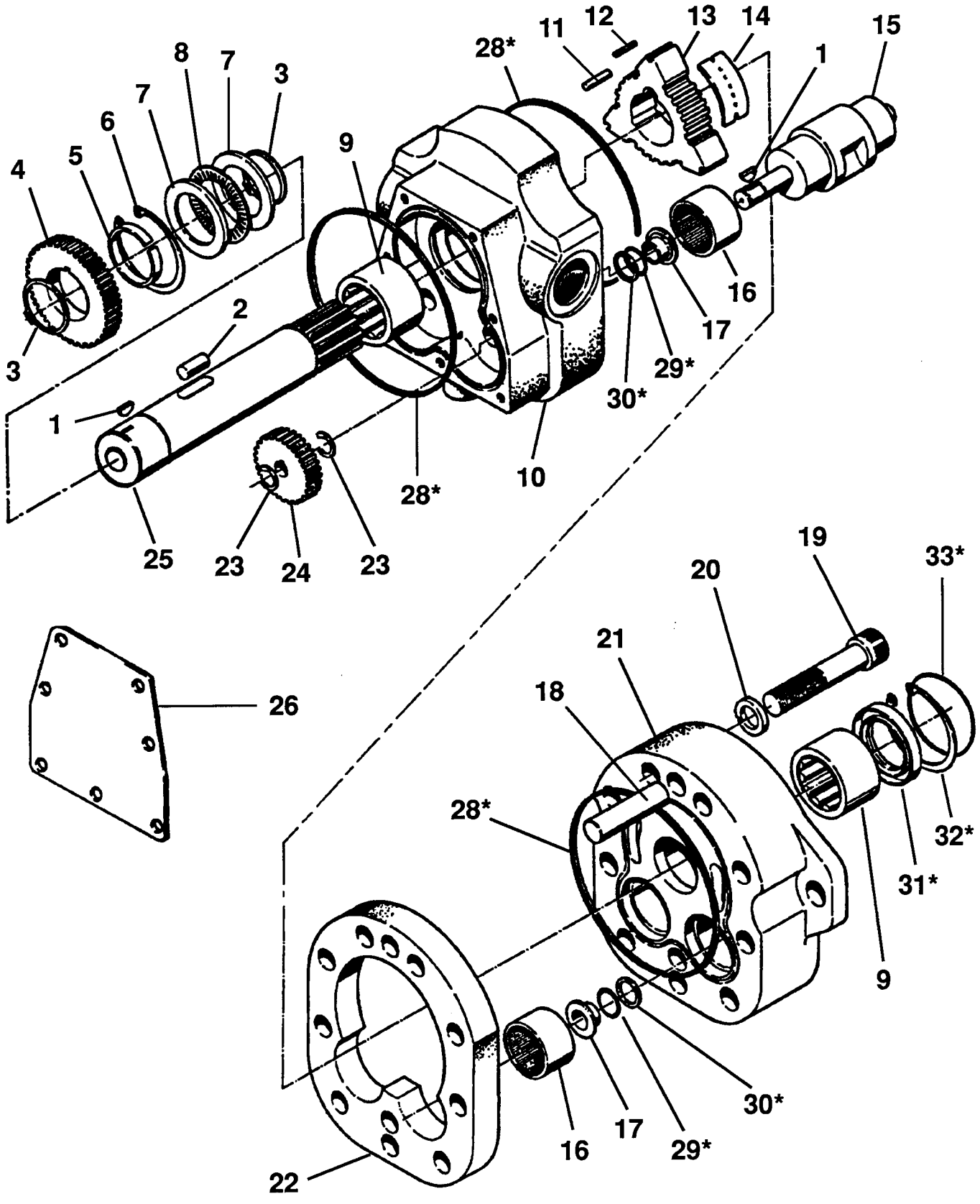

| TITLE | WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 7/19/91 | PART NO. 01-004800 | PLATE NO. D03.02 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-000430 | | KEY, WOODRUFF | 3 |
| 2 | 01-000421 | | PIN, DRIVE | 1 |
| 3 | 01-000443 | | RING, RETAINING | 2 |
| 4 | 01-000439 | | GEAR, DRIVE | 1 |
| 5 | 01-000431 | | WASHER, SPACER | 1 |
| 6 | 01-000444 | | RING, RETAINING | 1 |
| 7 | 01-000423 | | RACE, BEARING | 2 |
| 8 | 01-000422 | | BEARING, THRUST | 1 |
| 9 | 01-000436 | | BEARING, NEEDLE | 2 |
| 10 | 01-000437 | | CAP, END (Rear) | 1 |
| 11 | 01-000432 | | ROLLER, TIP SEAL [2" (50.8 mm) long] | 3 |
| 12 | 01-000433 | | ROLLER, BODY SEAL [2" (50.8 mm) long] | 18 |
| 13 | 01-000419 | | ROTOR [2" (50.8 mm) long] | 1 |
| 14 | 01-000427 | | PLATE, SEAL [2" (50.8 mm) long] | 3 |
| 15 | 01-000426 | | VALVE, ABUTMENT | 2 |
| 16 | 01-000438 | | BEARING, NEEDLE | 4 |
| 17 | 01-000425 | | BEARING, STEP | 4 |
| 18 | 01-000424 | | PIN, DOWEL | 2 |
| 19 | 07-008056 | | CAP SCREW, SOCKET HEAD (3/8"-16 x 3-3/4", Grade 8) | 9 |
| 20 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 9 |
| 21 | 01-000440 | | CAP, END (Front) (SAE "B") | 1 |
| 22 | 01-000429 | | HOUSING, DISPLACEMENT | 1 |
| 23 | 01-000442 | | RING, RETAINING | 4 |
| 24 | 01-000420 | | GEAR, PINION | 2 |
| 25 | | | SHAFT, MOTOR (Spline one end, for use without brake) | 1 |
| 26 | | | PLATE, GEAR COVER | 1 |
| 27 | 01-000401 | | SEAL KIT, MOTOR | 1 |
| | | | **Note:** Items in seal kit identified by asterisk (*). | |
| 28* | 01-000408 | | SEAL, OIL | 3 |
| 29* | 01-000441 | | "O"-RING | 4 |
| 30* | 01-000428 | | RING, BACK UP | 4 |
| 31* | 01-000407 | | SEAL, SHAFT | 1 |
| 32* | 01-000445 | | RING, RETAINING | 1 |
| 33* | 01-000406 | | "O"-RING | 1 |

TITLE WHEEL MOTOR (4 IN.$^3$, USED W/O BRAKE ON 4WD STEER AXLE)

PLATE NO. D03.07 | **SIMON AERIALS INC.** REV. 7/19/91 | PART NO. 01-003400




| TITLE | WHEEL MOTOR (4 IN.$^3$, USED W/O BRAKE ON 4WD STEER AXLE) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 7/19/91 | | PART NO. 01-003400 | PLATE NO. D03.07 |

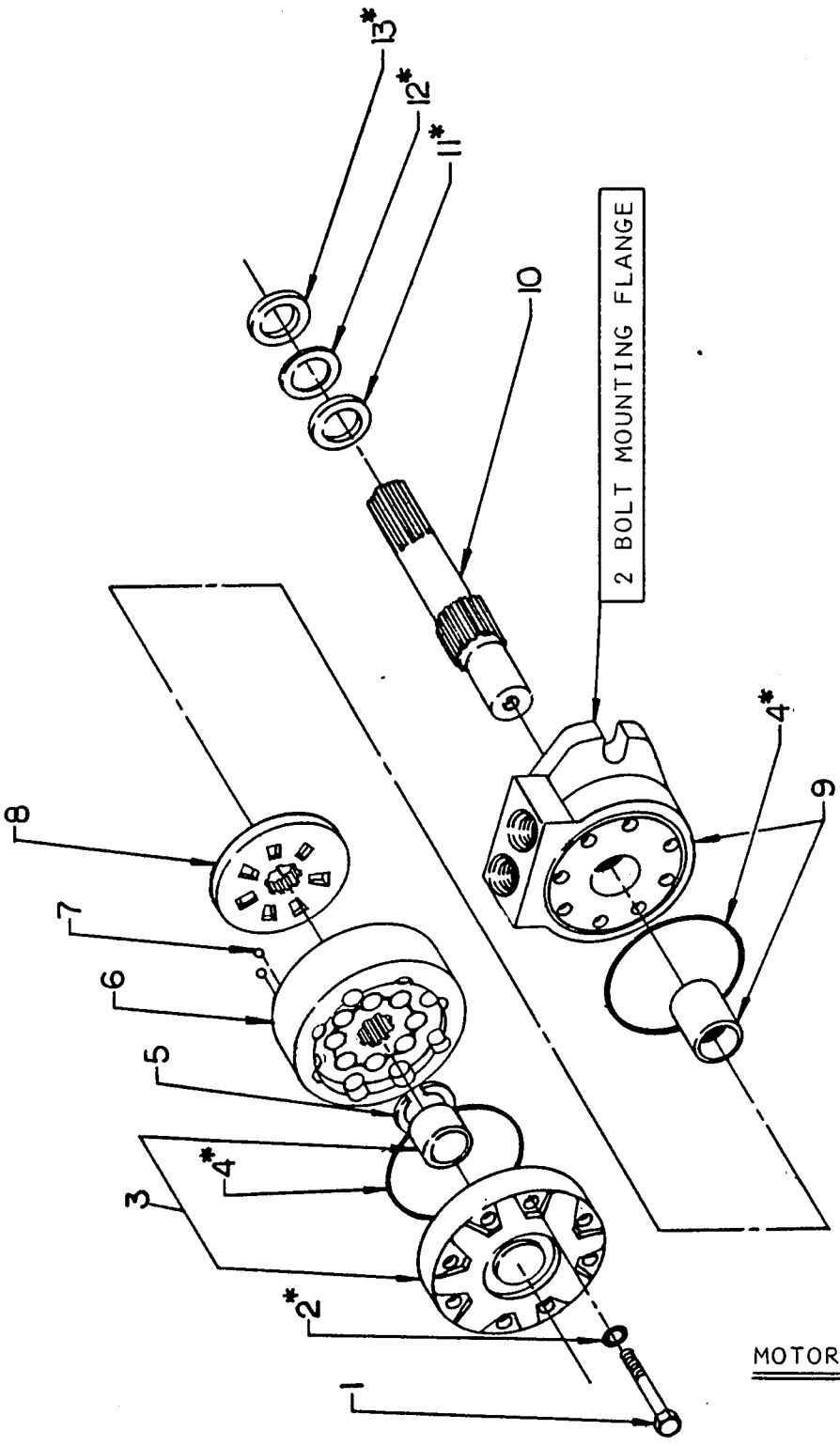
# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | HEX HEAD CAP SCREW | 8 |
| 2* | | | WASHER SEAL | 8 |
| 3 | | | COVER/BEARING ASSEMBLY | 1 |
| 4* | | | SQUARE RING SEAL | 2 |
| 5 | | | SNAP RING | 1 |
| 6 | | | IGR ASSEMBLY W/RING | 1 |
| 7 | | | CHECK VALVE BALL | 2 |
| 8 | | | ROTARY VALVE | 1 |
| 9 | | | BODY/BEARING ASSEMBLY | 1 |
| 10 | | | SHAFT | 1 |
| 11* | | | QUAD RING SEAL | 1 |
| 12* | | | BACK UP RING | 1 |
| 13* | | | DUST SEAL | 1 |
| * | 01-011801 | | SEAL KIT | |

sht 1 of 2

| DESCRIPTION | PART NO. |
|---|---|
| DRIVE MOTOR/BRAKE | 01-016800 |

D3.8




MOTOR ASSEMBLY

SHT 1 OF 2

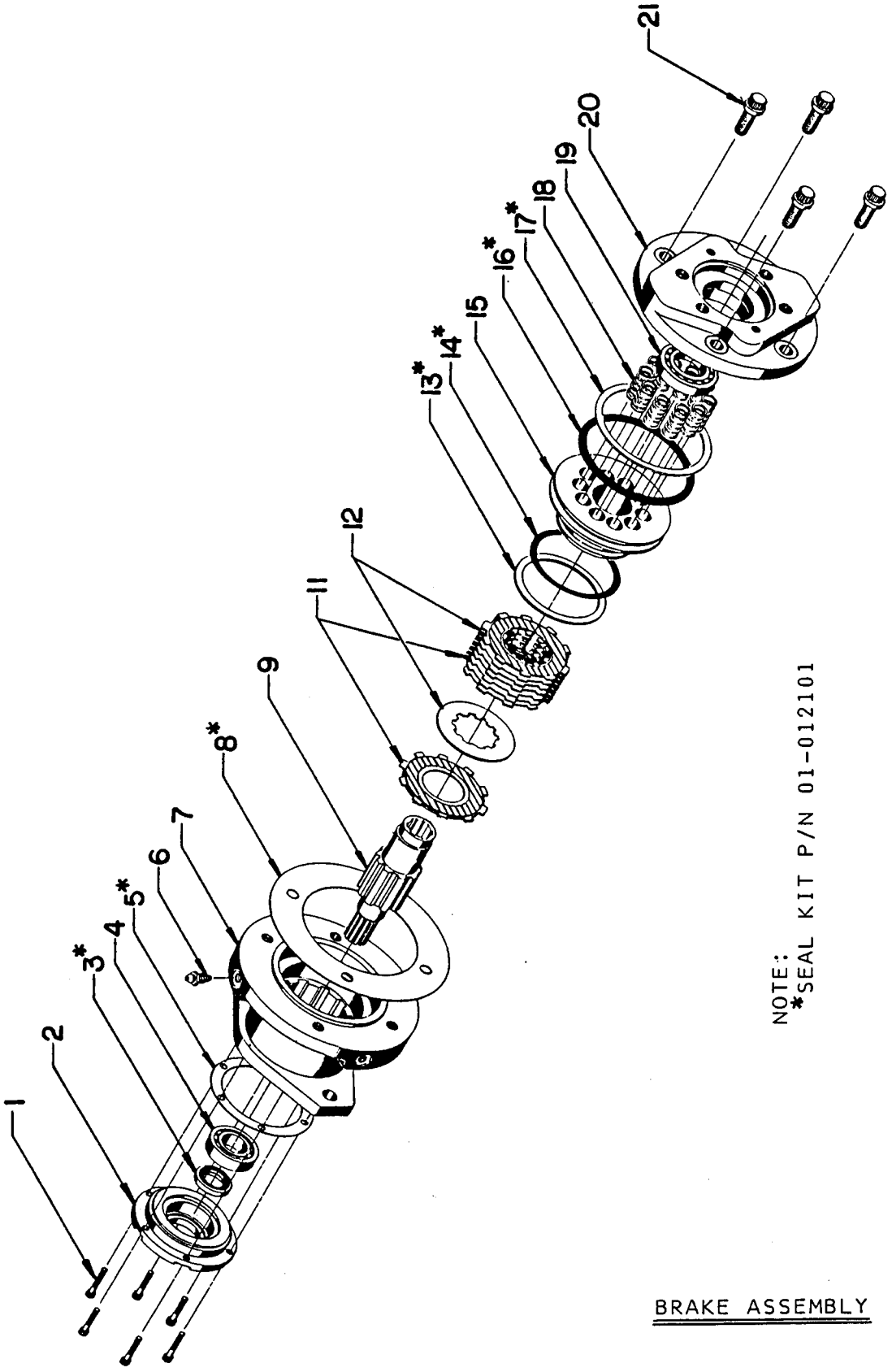
| DESCRIPTION | PART NO. |
|---|---|
| DRIVE MOTOR/BRAKE | 01-016300 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | SOCKET HEAD CAPSCREW | 6 |
| 2 | | | BASE PLATE | 1 |
| 3* | | | SHAFT SEAL | 1 |
| 4 | | | BEARING | 1 |
| 5* | | | BASE PLATE GASKET | 1 |
| 6 | | | PRESSURE BLEED FITTING | 1 |
| 7 | | | CASE | 1 |
| 8* | | | COVER GASKET | 1 |
| 9 | | | SHAFT | 1 |
| 11 | | | FRICTION DISC | |
| 12 | | | SEPARATOR PLATE | |
| 13* | | | BACK-UP RING | 1 |
| 14* | | | 'O' RING | 1 |
| 15 | | | PISTON | 1 |
| 16* | | | 'O' RING | 1 |
| 17* | | | BACK-UP RING | 1 |
| 18 | | | SPRING | 10 |
| 19 | | | BEARING | 1 |
| 20 | | | COVER | 1 |
| 21 | | | 12 PT. CAPSCREW | 4 |
| * | 01-012101 | | SEAL KIT | 1 |

Sht 2 of 2

| DESCRIPTION | PART NO. |
|---|---|
| DRIVE MOTOR / BRAKE | 01-018500 |




NOTE:
*SEAL KIT P/N 01-012101

BRAKE ASSEMBLY

0985/0985

SHT 2 OF 2

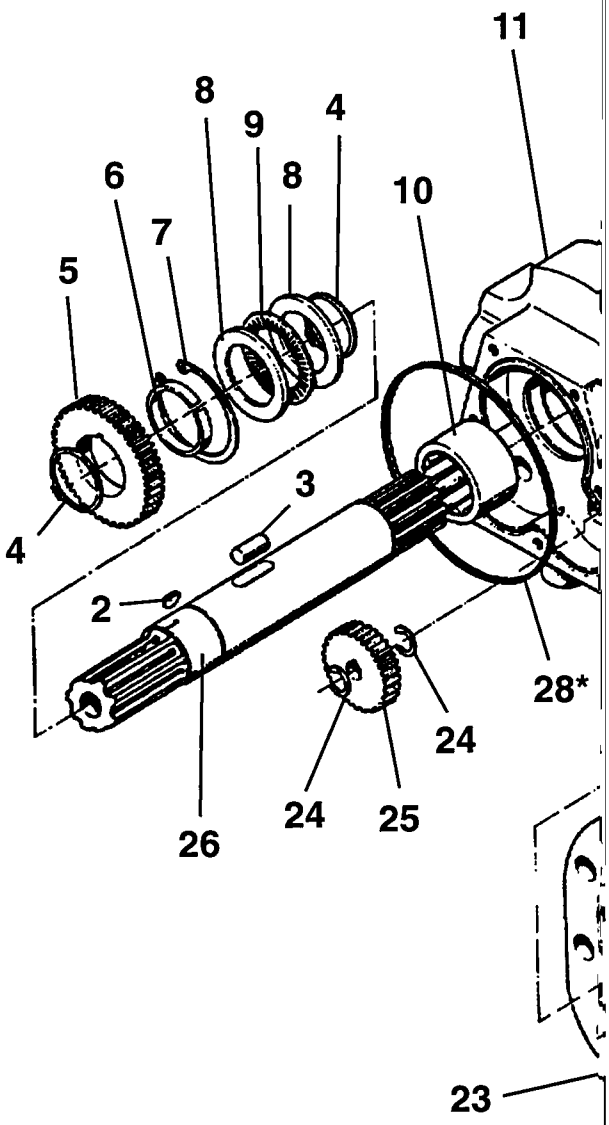
| DESCRIPTION | PART NO. |
|---|---|
| DRIVE MOTOR / BRAKE | 01-018500 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | MOTOR ASSEMBLY (See plate 2 of 2 for brake) | 1 |
| 2 | 01-000430 | | KEY, WOODRUFF | 3 |
| 3 | | | PIN, DRIVE | 1 |
| 4 | 01-000443 | | RING, RETAINING | 2 |
| 5 | 01-000439 | | GEAR, DRIVE | 1 |
| 6 | 01-000431 | | WASHER, SPACER | 1 |
| 7 | 01-000444 | | RING, RETAINING | 1 |
| 8 | 01-000423 | | RACE, BEARING | 2 |
| 9 | 01-000422 | | BEARING, THRUST | 1 |
| 10 | 01-000436 | | BEARING, NEEDLE | 2 |
| 11 | | | CAP, END (Rear) | 1 |
| 12 | | | ROLLER, TIP SEAL [3" (76.2 mm) long] | 3 |
| 13 | | | ROLLER, BODY SEAL [3" (76.2 mm) long] | 18 |
| 14 | | | ROTOR [3" (76.2 mm) wide] | 1 |
| 15 | | | PLATE, SEAL [3" (76.2 mm) wide] | 3 |
| 16 | | | VALVE, ABUTMENT | 2 |
| 17 | 01-000438 | | BEARING, NEEDLE | 4 |
| 18 | 01-000425 | | BEARING, STEP | 4 |
| 19 | | | PIN, DOWEL | 2 |
| 20 | | | CAP SCREW, SOCKET HEAD | 9 |
| 21 | | | WASHER, HELICAL LOCK | 9 |
| 22 | 01-000440 | | CAP, END (Front) (SAE "B") | 1 |
| 23 | | | HOUSING, DISPLACEMENT | 1 |
| 24 | 01-000442 | | RING, RETAINING | 4 |
| 25 | 01-000420 | | GEAR, PINION | 2 |
| 26 | | | SHAFT, MOTOR (Spline both ends, for use with brake) | 1 |
| 27 | 01-000401 | | SEAL KIT, MOTOR | 1 |
| | | | **Note:** Items included in seal kit marked by asterisk (*) | |
| 28 | | | SEAL, OIL | 3 |
| 29 | | | "O"-RING | 4 |
| 30 | 01-000428 | | RING, BACK UP | 4 |
| 31 | | | SEAL, SHAFT | 1 |
| 32 | 01-000445 | | RING, RETAINING | 1 |
| 33 | | | "O"-RING | 1 |

**TITLE** WHEEL MOTOR/ BRAKE (MOTOR, 5 IN.$^3$, PLATE 1 OF 2)

| PLATE NO. | SIMON AERIALS INC. | PART NO. |
|---|---|---|
| D03.09 | REV. 14 JUN., 1994 | 01-064200 |



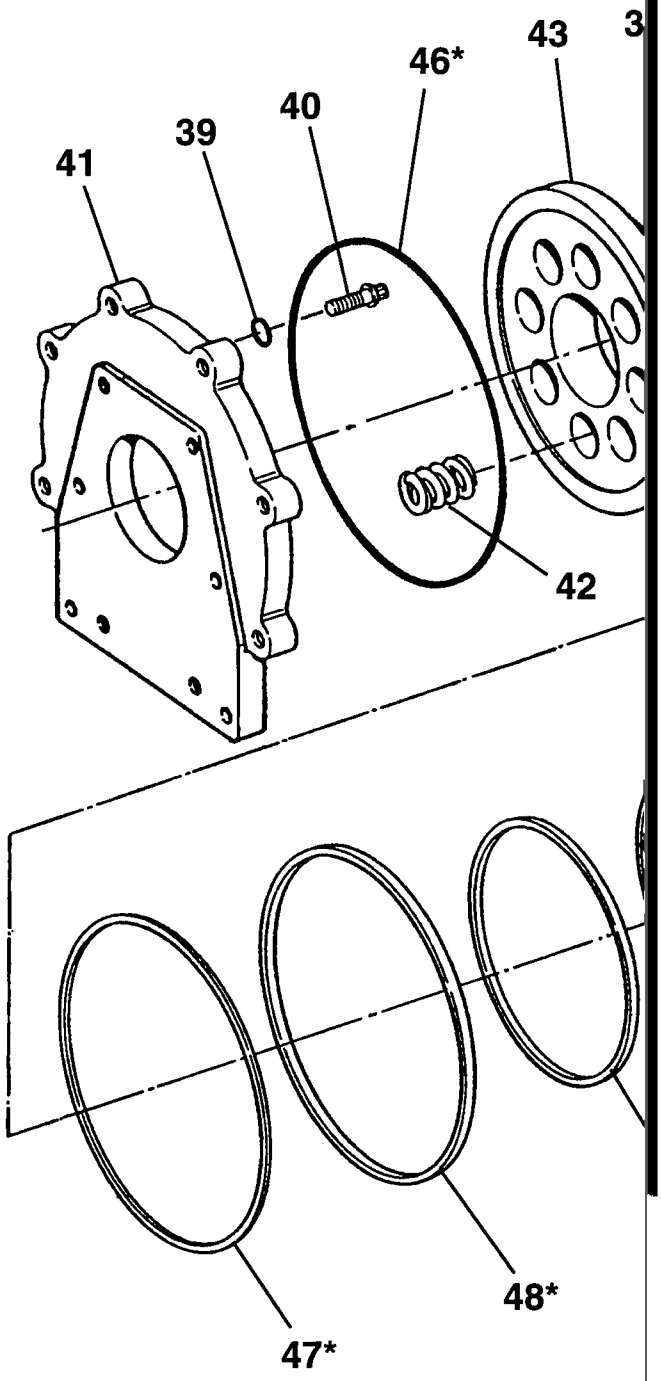

TITLE WHEEL MOTOR/ BRA

**SIMON AERIALS INC.** REV.

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 34 | 01-004802 | | BRAKE ASSEMBLY (See plate 1 of 2 for motor) | 1 |
| 35 | 01-000434 | | HOUSING | 1 |
| 36 | 01-004801 | | SPACER | 1 |
| 37 | 01-000410 | | DISC, FRICTION | 7 |
| 38 | 01-000411 | | PLATE, DRIVER | 6 |
| 39 | 01-000405 | | WASHER, BRASS | 7 |
| 40 | 07-008003 | | CAP SCREW, SOCKET HEAD (1/4"-20 x 3/4", Grade 8) | 7 |
| 41 | 01-000403 | | PLATE, ADAPTER | 1 |
| 42 | 01-000412 | | SPRING, DIE | 8 |
| 43 | 01-000413 | | PLATE, PRESSURE | 1 |
| 44 | 07-008027 | | CAP SCREW, SOCKET HEAD (5/16"-18 x 5/8") | 8 |
| 45 | 01-000402 | | SEAL KIT, BRAKE | 1 |
| 46* | 01-000404 | | "O"-RING | 1 |
| 47* | 01-000414 | | RING, BACK UP | 1 |
| 48* | 01-000415 | | RING, QUAD | 1 |
| 49* | 01-000418 | | RING, QUAD | 1 |
| 50* | 01-000416 | | RING, BACK UP | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2) | | | |
| PLATE NO. D03.09 | **SIMON AERIALS INC.** | REV. 14 JUN., 1994 | PART NO. | 01-064200 |



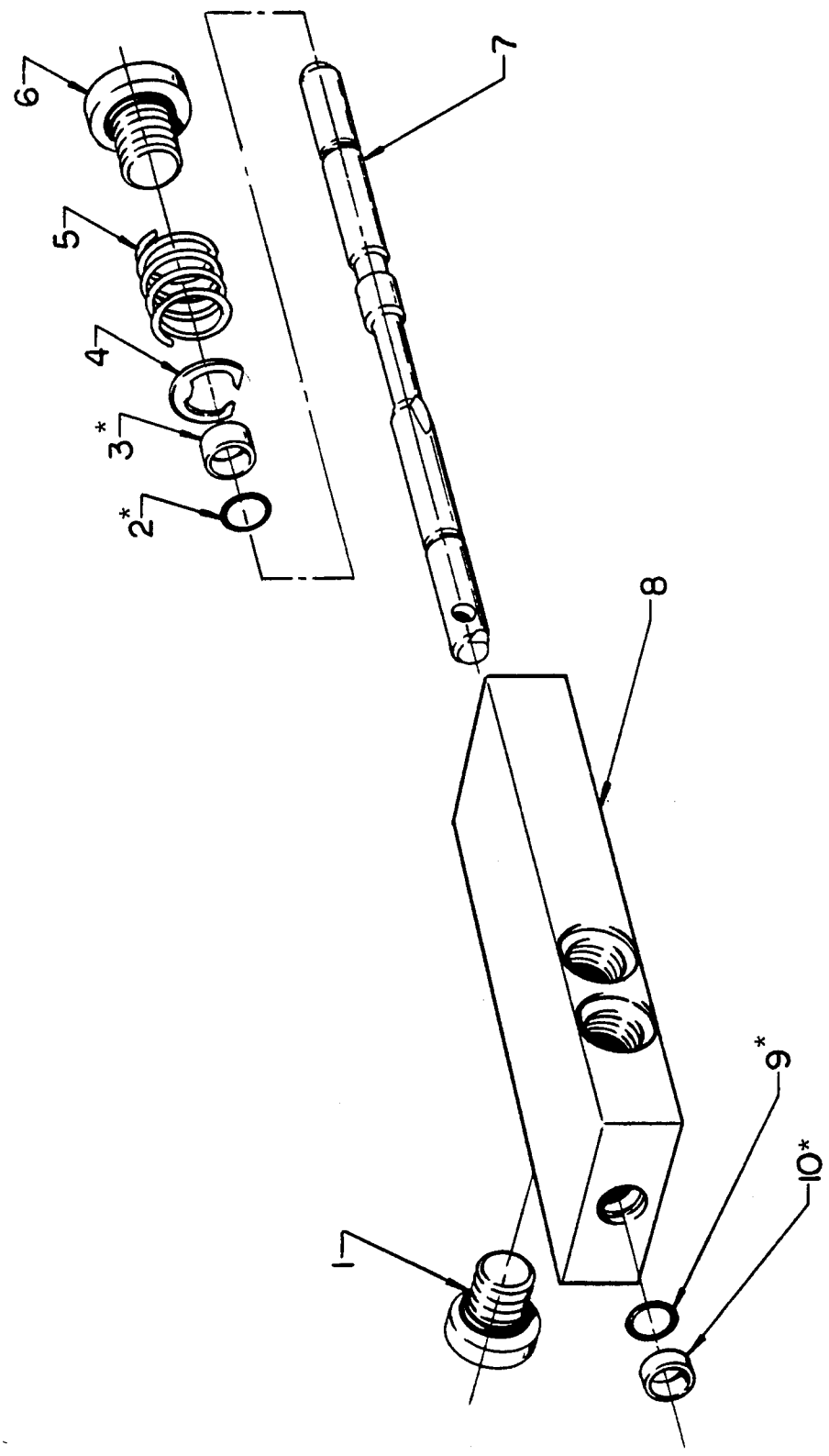

TITLE WHEEL MOTOR/ BRAKE

**SIMON AERIALS INC.** REV. 14 JUN., 1994

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | PLUG | 1 |
| 2* | | | "O" RING | 1 |
| 3* | | | BACKUP RING | 1 |
| 4 | | | SNAP RING | 1 |
| 5 | | | SPRING | 1 |
| 6 | | | PLUG | 1 |
| 7 | | | METERING SPOOL | 1 |
| 8 | | | VALVE BODY | 1 |
| 9* | | | "O" RING | 1 |
| 10 | | | BACKUP RING | 1 |
| * | 01-000901 | | SEAL KIT | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| HPC VALVE | 01-004700 |




NOTE:
*SEAL KIT P/N 01-000901

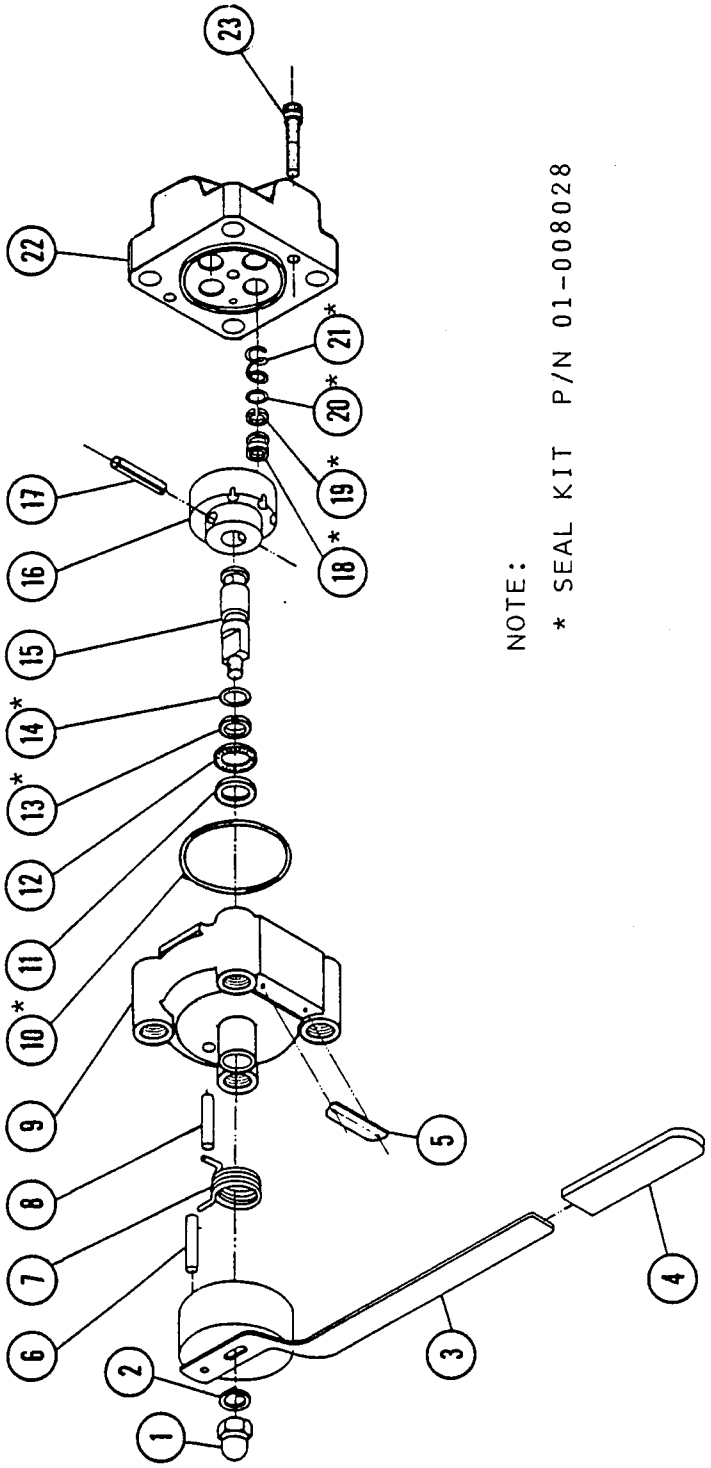
0484/0383

| DESCRIPTION | PART NO. |
|---|---|
| HPC VALVE | 01-004700 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | ACORN NUT | 1 |
| 2 | | | LOCKWASHER | 1 |
| 3 | 01-008001 | | HANDLE | 1 |
| 4 | 01-008002 | | HANDLE GRIP | 1 |
| 5 | | | NAMEPLATE | 1 |
| 6 | | | HUB DOWEL PIN | 1 |
| 7 | 01-008003 | | TORSION SPRING | 1 |
| 8 | | | HOUSING ROLL PIN | 1 |
| 9 | | | HOUSING | 1 |
| 10* | | | HOUSING "O" RING | 1 |
| 11 | | | THRUST WASHER | 1 |
| 12 | | | THRUST BEARING | 1 |
| 13* | | | SHAFT BACKUP RING | 1 |
| 14* | | | SHAFT "O" RING | 1 |
| 15 | | | SHAFT | 1 |
| 16 | | | ROTOR | 1 |
| 17 | | | ROTOR ROLL PIN | 1 |
| 18* | | | SEAL | 3 |
| 19* | | | BACKUP RING | 3 |
| 20* | | | "O" RING | 3 |
| 21* | | | SPRING | 3 |
| 22 | | | BODY | 1 |
| 23 | | | CAP SCREW | 4 |
| * | 01-008028 | | SEAL KIT | |

| DESCRIPTION | PART NO. |
|---|---|
| HPC VALVE, GROUND CONTROLS | 01-032600 |




0584/0677

| DESCRIPTION | PART NO. |
|---|---|
| HPC VALVE, GROUND CONTROLS | 01-032600 |

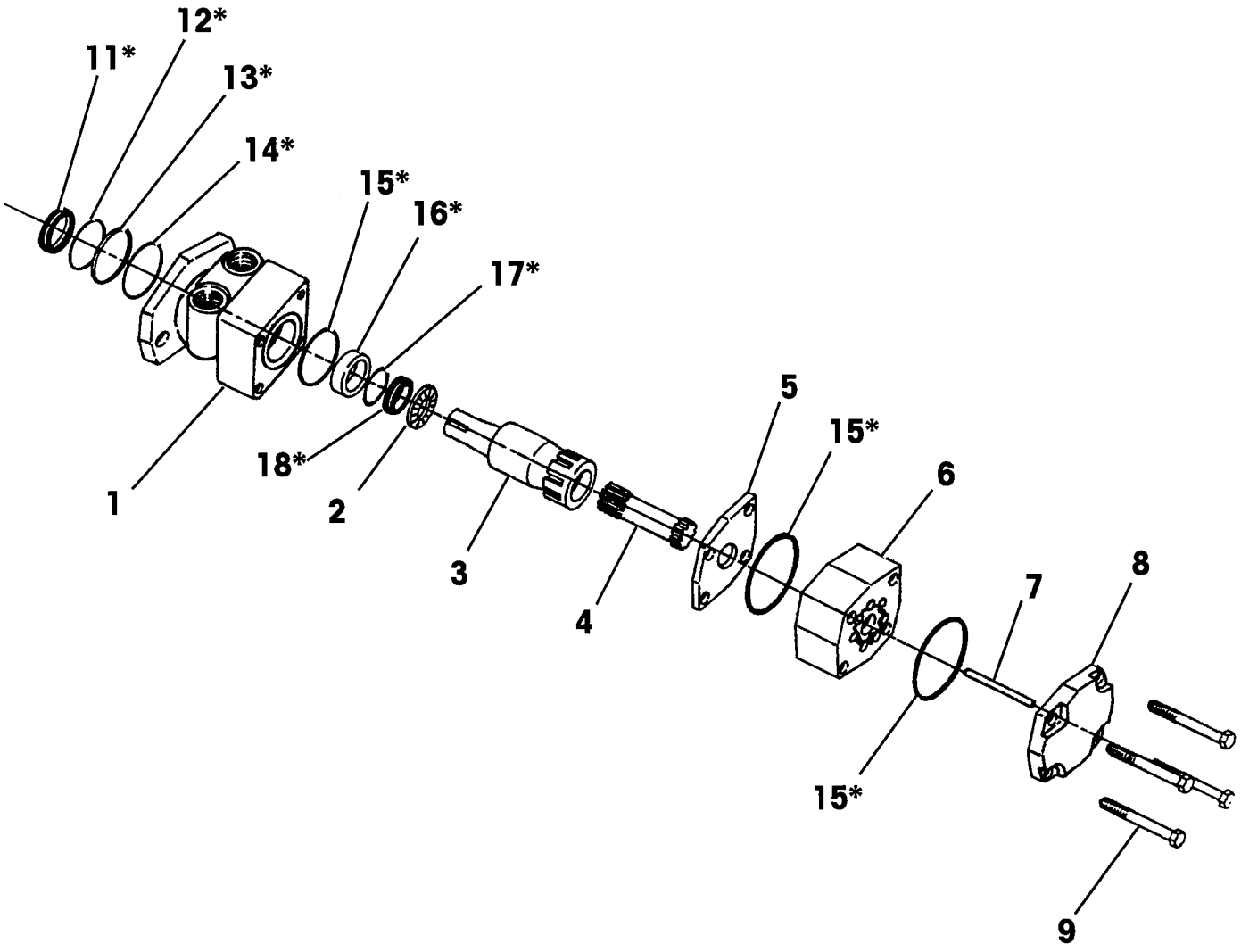
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | HOUSING, SWING MOTOR | 1 |
| 2 | | | BEARING, THRUST | 1 |
| 3 | 01-015601 | | SHAFT, SWING MOTOR | 1 |
| 4 | | | LINK, DRIVE | 1 |
| 5 | | | PLATE, WEAR | 1 |
| 6 | | | STATOR, ROLLER | 1 |
| 7 | | | PIN | 1 |
| 8 | | | COVER, END | 1 |
| 9 | | | SCREW | 4 |
| 10 | 01-011701 | | SEAL KIT | 1 |
| 11 | | | SEAL, DUST | 1 |
| 12 | | | RING, WIRE | 1 |
| 13 | | | SHIM | 1 |
| 14 | | | SEAL | 1 |
| 15 | | | SEAL | 3 |
| 16 | | | CARRIER, SEAL | 1 |
| 17 | | | SHIM | 1 |
| 18 | | | SEAL, SHAFT | 1 |

TITLE: SWING MOTOR

SECTION D06. | PLATE NO. 09 | PAGE 01 | REV. A | DATED 08 OCT., 1996 | PART NO. 01-015600

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172




**NOTE: Items in seal kit #10 identified by an asterisk (*).**

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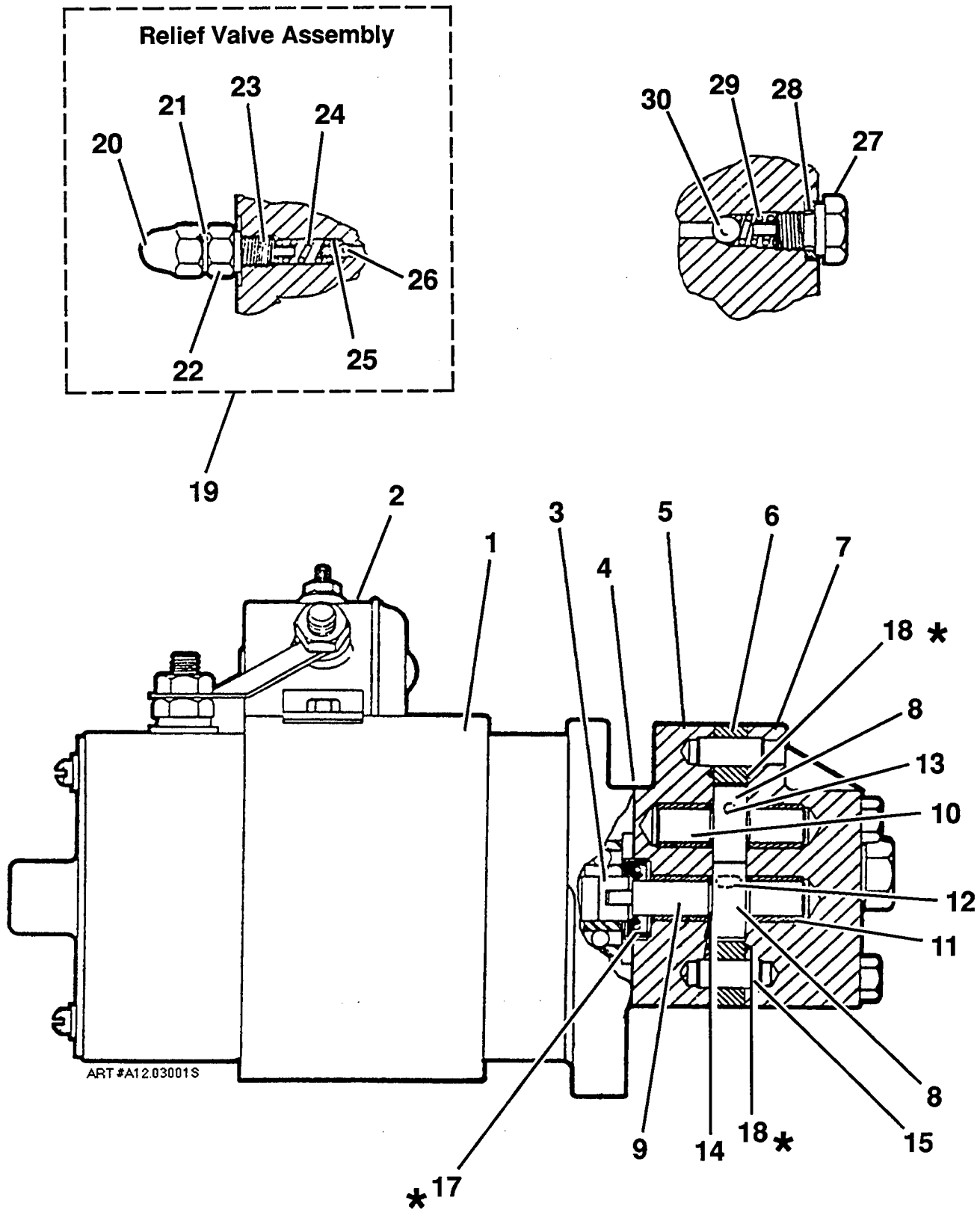
| TITLE | | | | | |
|---|---|---|---|---|---|
| SWING MOTOR | | | | | |
| PART NO. 01-015600 | REV. A | DATED 08 OCT., 1996 | SECTION D06. | PLATE NO. 09 | PAGE 01 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-027204 | | MOTOR, ELECTRIC PUMP | 1 |
| 2 | 01-027203 | | RELAY, SOLENOID. | 1 |
| 3 | 01-027205 | | COUPLING, PUMP | 1 |
| 4 | 01-027202 | | GASKET, PUMP | 1 |
| 5 | | | PLATE, DRIVE | 1 |
| 6 | | | CASE | 1 |
| 7 | | | PLATE, END | 1 |
| 8 | | | GEAR | 2 |
| 9 | | | SHAFT, DRIVE | 1 |
| 10 | | | SHAFT, IDLER | 1 |
| 11 | | | BEARING | 4 |
| 12 | | | KEY, DOWEL | 1 |
| 13 | | | BALL | 1 |
| 14 | | | RING, RETAINING | 4 |
| 15 | | | PIN, DOWEL | 2 |
| 16 | 01-027201 | | SEAL KIT | 1 |
| | | | **Note:** Items in seal kit are identified by asterisk (*). | |
| 17 | * | | SEAL, SHAFT | 1 |
| 18 | * | | O-RING | 2 |
| 19 | 01-027206 | | RELIEF VALVE ASSEMBLY | 1 |
| 20 | | | NUT, ACORN | 1 |
| 21 | | | GASKET, METAL | 1 |
| 22 | | | NUT, HEX JAM | 1 |
| 23 | | | SCREW, ADJUSTING | 1 |
| 24 | | | SPRING | 1 |
| 25 | | | GUIDE, SPRING | 1 |
| 26 | | | BALL | 1 |
| 27 | | | CAP, VALVE | 1 |
| 28 | | | WASHER, SEALING | 1 |
| 29 | | | SPRING | 1 |
| 30 | | | BALL | 1 |

TITLE: EMERGENCY PUMP

PLATE NO. D07.04 | **SIMON AERIALS INC.** REV. 08 OCT., 1993 | PART NO. 01-027200




| TITLE | EMERGENCY PUMP | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 08 OCT., 1993 | PART NO. 01-027200 | PLATE NO. D07.04 | |

# PARTS LIST

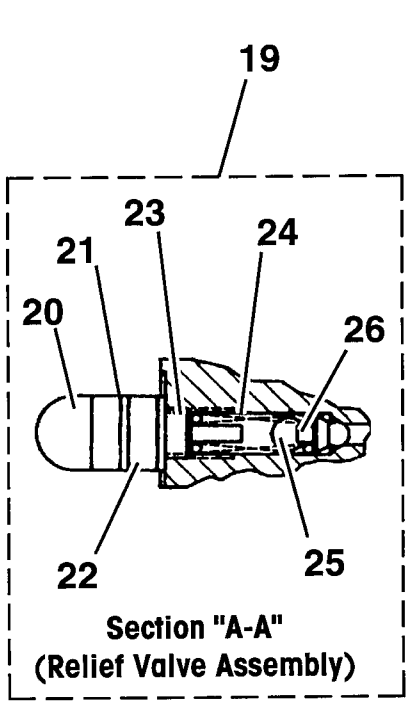
| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-224901 | | MOTOR, ELECTRIC PUMP | 1 |
| 2 | 01-224902 | | RELAY, SOLENOID | 1 |
| 3 | 01-027205 | | COUPLING, PUMP | 1 |
| 4 | 01-027202 | | GASKET, PUMP | 1 |
| 5 | | | PLATE, DRIVE | 1 |
| 6 | | | CASE | 1 |
| 7 | | | PLATE, END | 1 |
| 8 | | | GEAR | 2 |
| 9 | | | SHAFT, DRIVE | 1 |
| 10 | | | SHAFT, IDLER | 1 |
| 11 | | | BEARING | 4 |
| 12 | | | KEY, DOWEL | 1 |
| 13 | | | BALL | 1 |
| 14 | | | RING, RETAINING | 4 |
| 15 | | | PIN, DOWEL | 2 |
| 16 | | | SEAL KIT | 1 |
| | | | **Note:** Items in seal kit are identified by asterisk (*). | |
| 17 | * | | SEAL, SHAFT | 1 |
| 18 | * | | O-RING | 4 |
| 19 | | | RELIEF VALVE ASSEMBLY | 1 |
| 20 | | | NUT, ACORN | 1 |
| 21 | | | GASKET, METAL | 1 |
| 22 | | | NUT, HEX JAM | 1 |
| 23 | | | SCREW, ADJUSTING | 1 |
| 24 | | | SPRING | 1 |
| 25 | | | GUIDE, SPRING | 1 |
| 26 | | | BALL | 1 |
| 27 | | | CAP, VALVE | 1 |
| 28 | | | WASHER, SEALING | 1 |
| 29 | | | SPRING | 1 |
| 30 | | | BALL | 1 |

TITLE

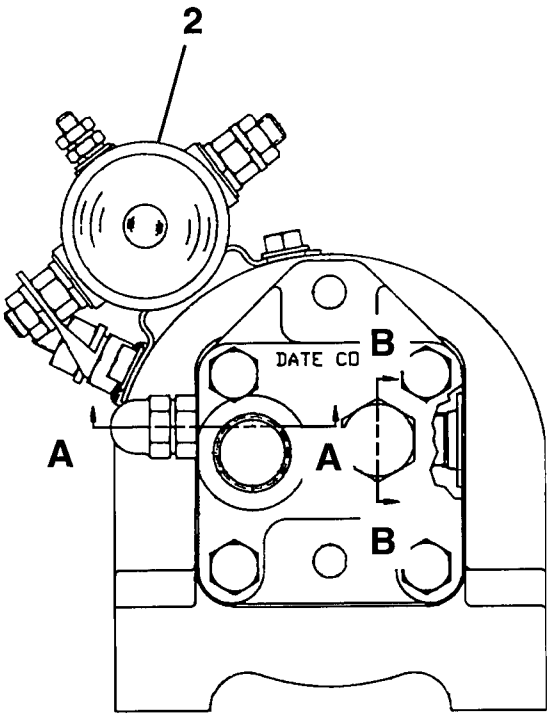
EMERGENCY PUMP

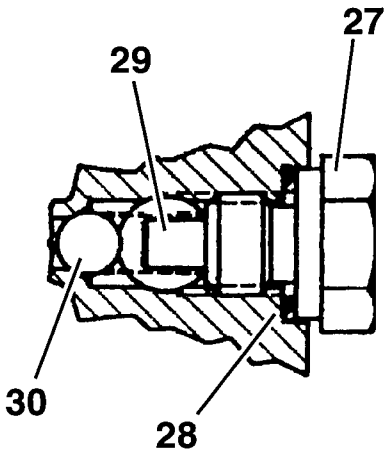
| SECTION | PLATE NO. | PAGE | REV. | DATED | PART NO. |
|---|---|---|---|---|---|
| D07 | 101 | 01 | - | 08 SEP., 1995 | 01-224 900 |

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



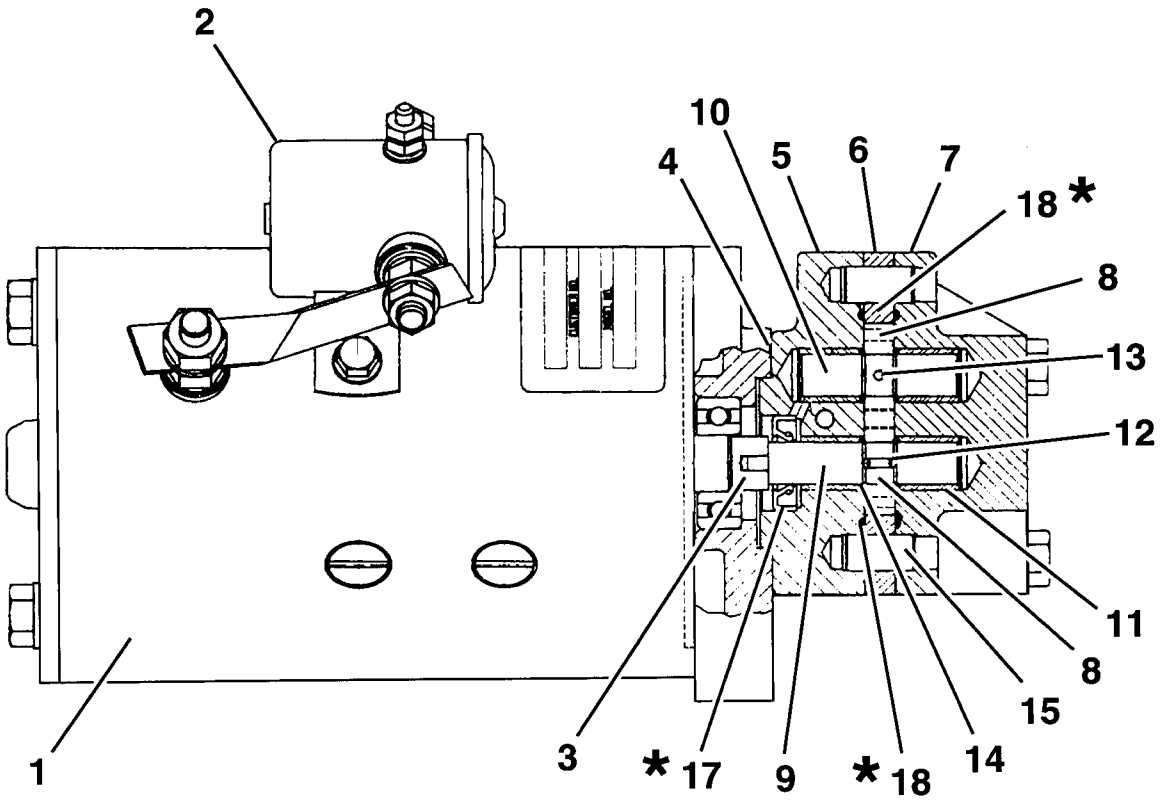

Section "A-A"
(Relief Valve Assembly)




Section "B-B"
(Check Valve)

View in direction of Arrow




Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
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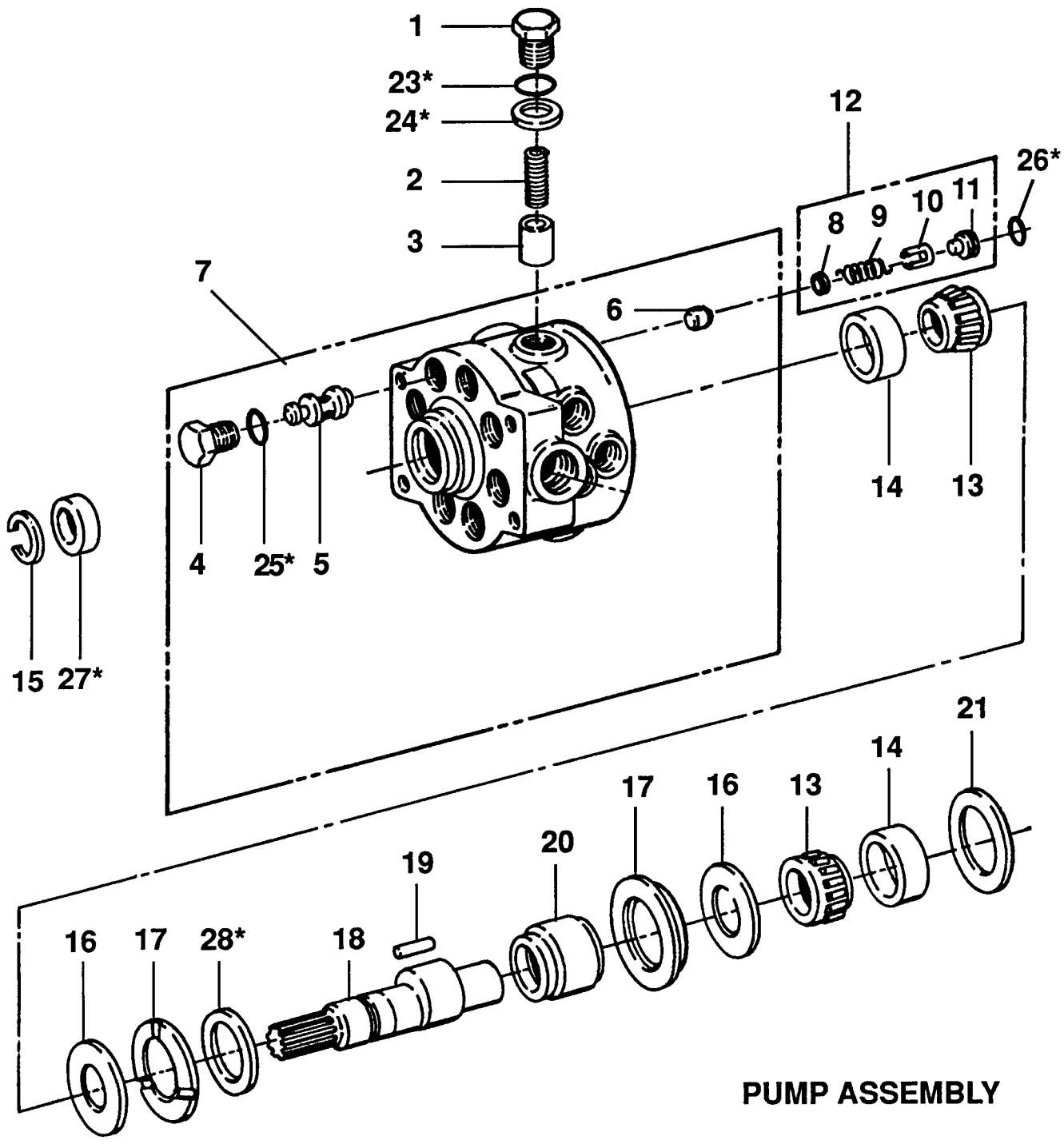
TITLE: EMERGENCY PUMP

| PART NO. | REV. | DATED | SECTION | PLATE NO. | PAGE |
|---|---|---|---|---|---|
| 01-224 900 | - | 08 SEP., 1995 | D07. | 101 | 01 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | FITTING | 8 |
| 2 | | | SPRING | 8 |
| 3 | 01-007007 | | PISTON | 8 |
| 4 | | | FITTING | 8 |
| 5 | | | VALVE, INLET | 8 |
| 6 | | | BUSHING | 8 |
| 7 | | | HOUSING | 1 |
| 8 | 01-007008 | | DISK | 8 |
| 9 | | | SPRING | 8 |
| 10 | | | GUIDE | 8 |
| 11 | | | STOP | 8 |
| 12 | | | VALVE, DISCHARGE | 8 |
| 13 | 01-002615 | | CONE, BEARING | 2 |
| 14 | 01-002617 | | CUP, BEARING | 2 |
| 15 | | | RING, SNAP | 1 |
| 16 | | | WASHER | 2 |
| 17 | 01-007003 | | WASHER, THRUST | 2 |
| 18 | | | SHAFT | 1 |
| 19 | | | ROLLER, NEEDLE | 25 |
| 20 | | | RACE, BEARING | 1 |
| 21 | 01-002624 | | SHIM (.006" thick) | A.R. |
| | 01-002625 | | SHIM (.010" thick) | A.R. |
| 22 | 01-007001 | | SEAL KIT (for complete pump, including stroke valve ass'y. on plate 2) | 1 |
| 23 | | | "O"-RING | 8 |
| 24 | | | SHIELD | 8 |
| 25 | | | "O"-RING | 8 |
| 26 | | | WASHER | 8 |
| 27 | 01-002605 | | SEAL | 1 |
| 28 | | | RING | 1 |
| | | | **Note:** Items in seal kit identified by an asterisk **(*)**. | |

| TITLE | HYDRAULIC PUMP (PLATE 1 OF 2) | | |
|---|---|---|---|
| PLATE NO. D08.01 | **SIMON AERIALS INC.** | REV. 29 AUG., 1994 THIS SHEET ONLY | PART NO. 01-007000 |




**PUMP ASSEMBLY**

Note: Items in seal kit identified by an asterisk (*).

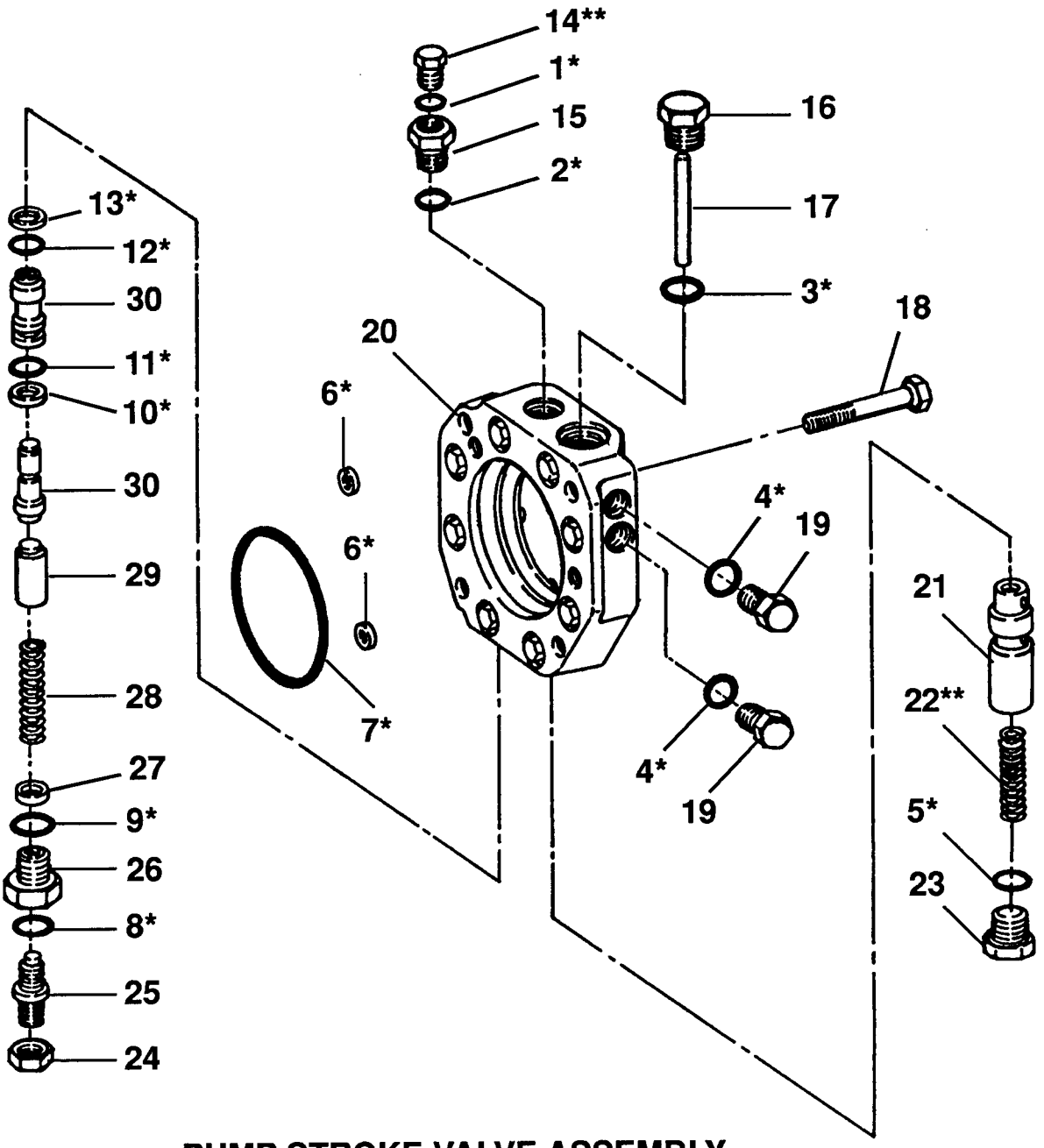
| TITLE | HYDRAULIC PUMP (PLATE 1 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 9/17/91 | PART NO. 01-007000 | PLATE NO. D08.01 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | 01-007001 | | SEAL KIT (for complete pump. Also see plate 1) | 1 |
| 1 | | | "O"-RING | 1 |
| 2 | | | "O"-RING | 1 |
| 3 | | | "O"-RING | 1 |
| 4 | | | "O"-RING | 2 |
| 5 | | | "O"-RING | 1 |
| 6 | | | WASHER | 2 |
| 7 | | | "O"-RING | 1 |
| 8 | 01-002614 | | "O"-RING | 1 |
| 9 | | | "O"-RING | 1 |
| 10 | | | RING, BACK UP | 1 |
| 11 | | | "O"-RING | 1 |
| 12 | | | "O"-RING | 1 |
| 13 | | | RING, BACK UP | 1 |
| 14 | | ** | PLUG, DRAIN (Not used, HPC ports. Removal required) | |
| 15 | 01-006602 | | PLUG | 1 |
| 16 | | | PLUG, DRAIN | 1 |
| 17 | | | PIN | 1 |
| 18 | | | CAP SCREW, HEX HEAD | 4 |
| 19 | | | PLUG, DRAIN | 2 |
| 20 | | | HOUSING | 1 |
| 21 | | | VALVE, CRANK CASE | 1 |
| 22 | | ** | SPRING (Not used. Removal required) | |
| 23 | | | PLUG, DRAIN | 1 |
| 24 | | | NUT | 1 |
| 25 | | | SCREW, SET | 1 |
| 26 | | | FITTING | 1 |
| 27 | | | WASHER | 1 |
| 28 | | | SPRING | 1 |
| 29 | | | GUIDE | 1 |
| 30 | | | VALVE, PRESSURE RELIEF (COMPENSATOR) | 1 |
| | | | **Note:** Items in seal kit identified by an asterisk (*). | |
| ** | | | **Note:** Not used. Removal required. | |

TITLE HYDRAULIC PUMP (PLATE 2 OF 2, PUMP STROKE VALVE ASSEMBLY)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| D08.01 | **SIMON AERIALS INC.** | REV. 9/17/91 | 01-007000 |




**PUMP STROKE VALVE ASSEMBLY**

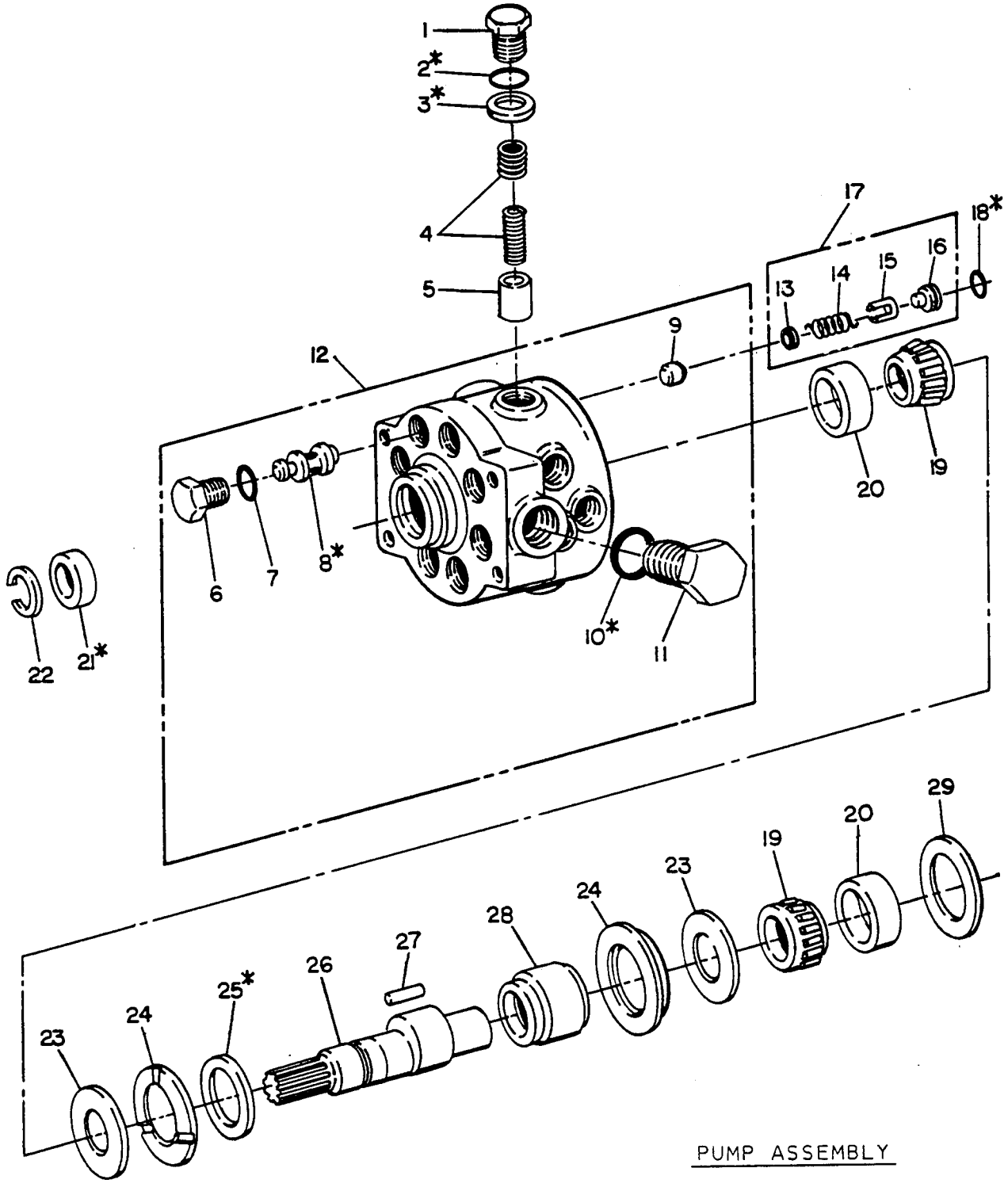
Note: Items in seal kit identified by an asterisk (*).
Item with double asterisk (**) not used, removal required.

| TITLE | HYDRAULIC PUMP (PLATE 2 OF 2, PUMP STROKE VALVE ASSEMBLY) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 9/17/91 | PART NO. 01-007000 | PLATE NO. D08.01 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | FITTING | 8 |
| 2* | | | "O" RING | 8 |
| 3* | | | SHIELD | 8 |
| 4 | 01-006603 | | SPRING ASSEMBLY | 8 |
| 5 | 01-002621 | | PISTON | 8 |
| 6 | | | FITTING | 8 |
| 7* | | | "O" RING | 8 |
| 8 | | | INLET VALVE | 8 |
| 9 | | | BUSHING | 8 |
| 10* | 01-002612 | | "O" RING | 1 |
| 11 | | | FITTNG | 1 |
| 12 | | | HOUSING | 1 |
| 13 | | | DISK | 8 |
| 14 | | | SPRING | 8 |
| 15 | | | GUIDE | 8 |
| 16 | | | STOP | 8 |
| 17 | 01-006604 | | DISCHARGE VALVE | 8 |
| 18* | | | WASHER | 8 |
| 19 | 01-002615 | | BEARING CONE | 2 |
| 20 | 01-002617 | | BEARING CUP | 2 |
| 21* | 01-002605 | | SEAL | 1 |
| 22 | | | SNAP RING | 1 |
| 23 | | | WASHER | 2 |
| 24 | | | THRUST WASHER | 2 |
| 25* | | | SEALING RING | 1 |
| 26 | | | SHAFT | 1 |
| 27 | | | NEEDLE ROLLER | 25 |
| 28 | | | BEARING RACE | 1 |
| 29 | 01-002624 | | SHIM (.006) | A.R. |
| 30 | 01-002625 | | SHIM (.010) | A.R. |
| * | 01-006601 | | SEAL KIT | |

| DESCRIPTION | PART NO. |
|---|---|
| HYDRAULIC PUMP | 01-006600 |




PUMP ASSEMBLY

NOTE:
*PUMP SEAL KIT P/N 01-006601

SHEET 1 OF 2

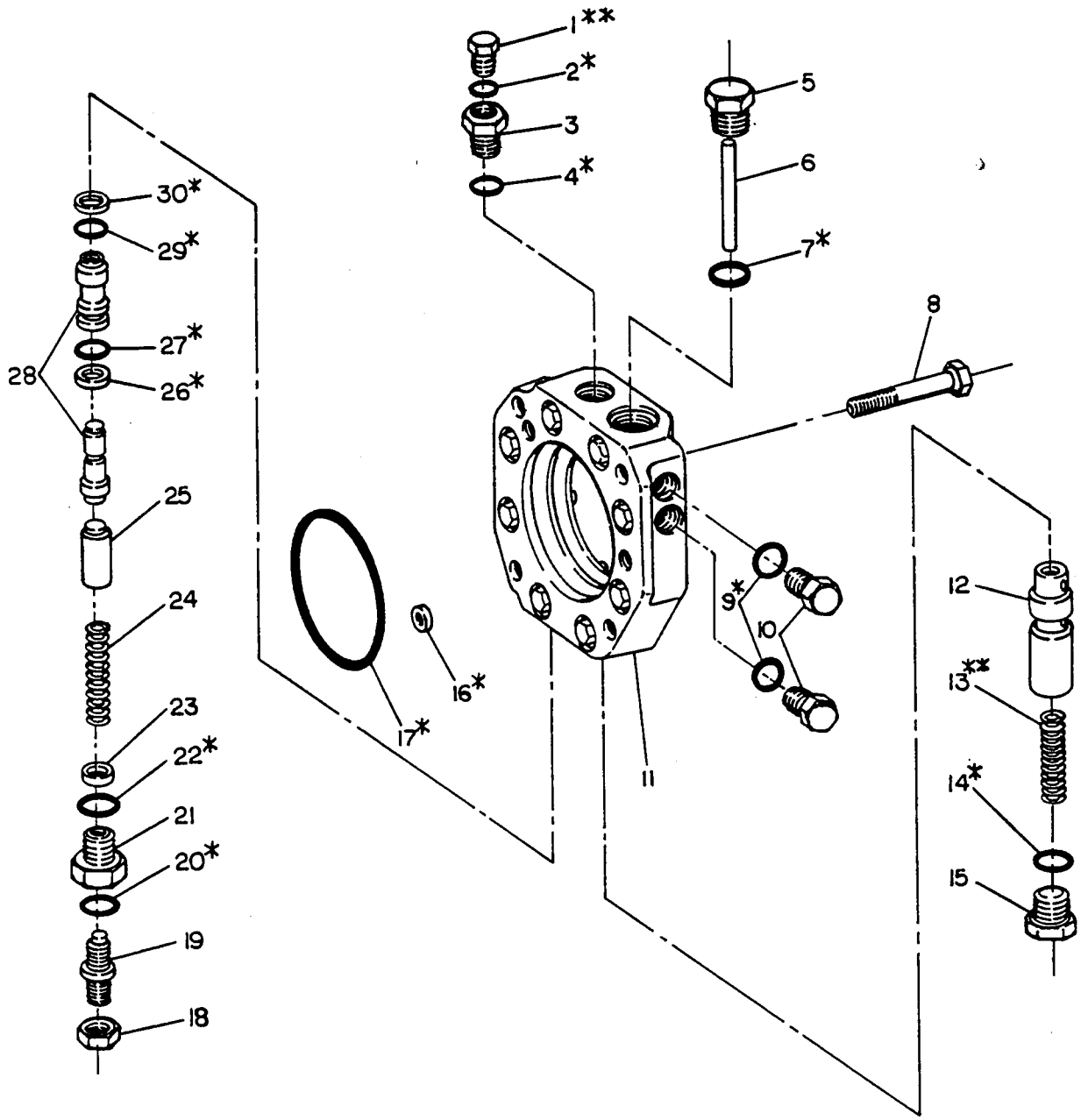
0684/0983

| DESCRIPTION | PART NO. |
|---|---|
| HYDRAULIC PUMP | 01-006600 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1** | | | DRAIN PLUG (NOT USED, HPC PORT) | |
| 2* | | | "O" RING | 1 |
| 3 | | | PLUG | 1 |
| 4* | | | "O" RING | 1 |
| 5 | | | DRAIN PLUG | 1 |
| 6 | | | PIN | 1 |
| 7* | | | "O" RING | 1 |
| 8 | | | CAP SCREW | 4 |
| 9* | | | "O" RING | 2 |
| 10 | | | DRAIN PLUG | 2 |
| 11 | | | HOUSING | 1 |
| 12 | | | CRANK CASE VALVE | 1 |
| 13** | | | SPRING (NOT USED, REQUIRES REMOVAL) | |
| 14* | | | "O" RING | 1 |
| 15 | | | DRAIN PLUG | 1 |
| 16* | | | WASHER | 1 |
| 17* | | | "O" RING | 1 |
| 18 | | | NUT | 1 |
| 19 | | | SET SCREW | 1 |
| 20* | 01-002614 | | "O" RING | 1 |
| 21 | 01-002613 | | FITTING | 1 |
| 22* | | | "O" RING | 1 |
| 23 | | | WASHER | 1 |
| 24 | | | SPRING | 1 |
| 25 | | | GUIDE | 1 |
| 26* | | | BACK-UP- RING | 1 |
| 27* | | | "O" RING | 1 |
| 28 | | | PRESSURE RELIEF VALVE (COMPENSATOR) | 1 |
| 29* | | | "O" RING | 1 |
| 30* | | | BACK-UP RING | 1 |
| * | 01-006601 | | SEAL KIT | |

| DESCRIPTION | PART NO. |
|---|---|
| HYDRAULIC PUMP | 01-006600 |




PUMP STROKE VALVE ASSEMBLY

NOTE:
*PUMP SEAL KIT P/N 01-006601
**NOT USED, REQUIRES REMOVAL

0684/0983

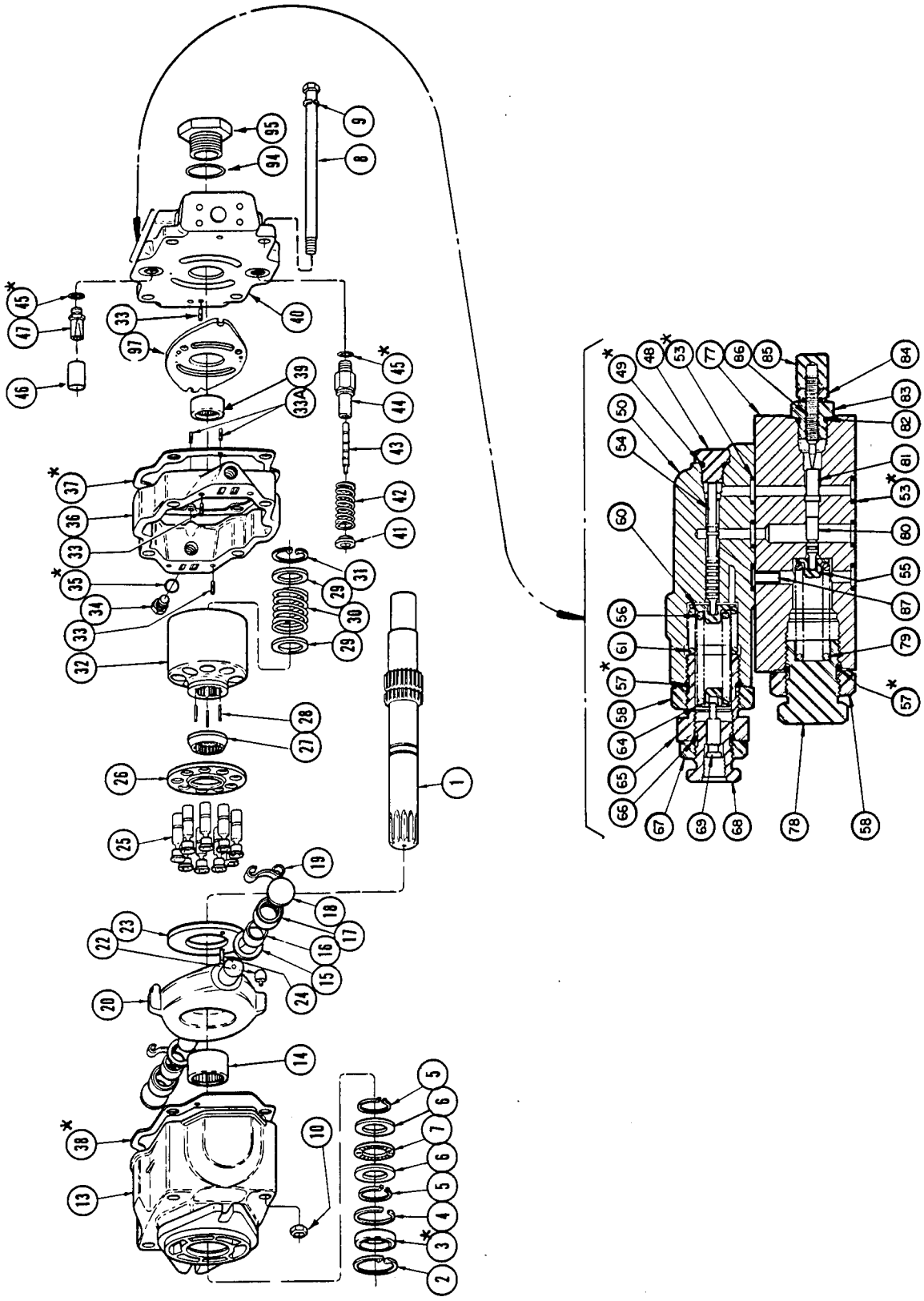
SHEET 2 OF 2

| DESCRIPTION | PART NO. |
|---|---|
| HYDRAULIC PUMP | 01-006600 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | SHAFT, 'C' SPLINE | |
| 2 | | | RETAINING RING | 1 |
| 3* | | | SHAFT SEAL | 1 |
| 4 | | | SPACER | 1 |
| 5 | | | RETAINING RING | 1 |
| 6 | | | THRUST BEARING RACE | 2 |
| 7 | | | THRUST BEARING | 2 |
| 8 | | | HEX HEAD CAP SCREW | 1 |
| 9 | | | LOCKWASHER | 4 |
| 10 | | | HEX NUT | 4 |
| 13 | | | 'C' ADAPTOR HOUSING | 4 |
| 14 | | | BEARING | 1 |
| 15 | | | CAM WASHER | 1 |
| 16 | | | INNER CAM RACE | 2 |
| 17 | | | TRUNNION BEARING ASSEMBLY | 2 |
| 18 | | | CAM THRUST BEARING | 2 |
| 19 | | | TRUNNION SPRING | 2 |
| 20 | | | CAM | 2 |
| 22 | | | CONTROL PIVOT | 1 |
| 23 | | | WEAR PLATE | 1 |
| 24 | | | ROLL PIN | 1 |
| 25 | | | PISTON ASSEMBLY | 1 |
| 26 | | | RETURN PLATE | 9 |
| 27 | | | RETURN PLATE PIVOT | 1 |
| 28 | | | PISTON RETURN PIN | 1 |
| 29 | | | BLOCK SPRING WASHER | 3 |
| 30 | | | BLOCK SPRING | 2 |
| 31 | | | RETAINING RING | 1 |
| 32 | | | CYLINDER BLOCK | 1 |
| 33 | | | ROLL PIN | 1 |
| 33A | | | ROLL PIN | 3 |
| 34 | | | PLUG (CASE DRAIN) | 2 |
| 35* | | | 'O' RING | 1 |
| 36 | | | PUMP ASSEMBLY HOUSING | 1 |
| 37* | | | COVER GASKET | 1 |
| 38* | | | FLANGE GASKET | 1 |
| 39 | | | BEARING | 1 |
| 40 | | | REAR PORTED COVER | 1 |
| 41 | | | SPRING SEAT | 1 |
| 42 | | | SPRING | 1 |
| 43 | | | PISTON | 1 |
| 44 | | | SLEEVE | 1 |
| 45* | | | 'O' RING | 1 |
| 46 | | | CONTROL SLEEVE | 2 |
| 47 | | | CONTROL. POST PISTON | 1 |
| 48 | | | PLUG | 1 |
| 49* | | | 'O' RING | 1 |
| 50 | | | CONTROL HOUSING | 1 |
| 53* | | | 'O' RING | 1 |
| 54 | | | PLUNGER | 1 |
| 55 | | | SPRING RETAINER | 6 |
| 56 | | | SPRING | 1 |
| 57* | | | 'O' RING | 1 |
| 58 | | | HEX NUT | 1 |
| 60 | | | SPRING RETAINER | 2 |
| 61 | | | SPRING | 2 |
| 64 | | | SPRING SEAT | 1 |
| 65 | | | CAP | 1 |
| 66 | | | 'O' RING | 1 |
| 67 | | | JAM NUT | 1 |
| 68 | | | CAP | 1 |
| 69 | | | SENSE PIN | 1 |
| 77 | | | CONTROL HOUSING | 1 |
| 78 | | | CAP | 1 |
| 79 | | | SPRING | 1 |
| 80 | | | PLUNGER | 1 |
| 81 | | | NEEDLE ORIFICE | 1 |
| 82 | | | 'O' RING | 1 |
| 83 | | | CAP | 1 |
| 84 | | | JAM NUT | 1 |
| 85 | | | CAP | 1 |
| 86 | | | ADJUSTING SCREW | 1 |
| 87 | | | ORIFICE | 1 |
| * | 01-015001 | | SEAL KIT | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| HYDRAULIC PUMP | 01-015000 |



0485/0385

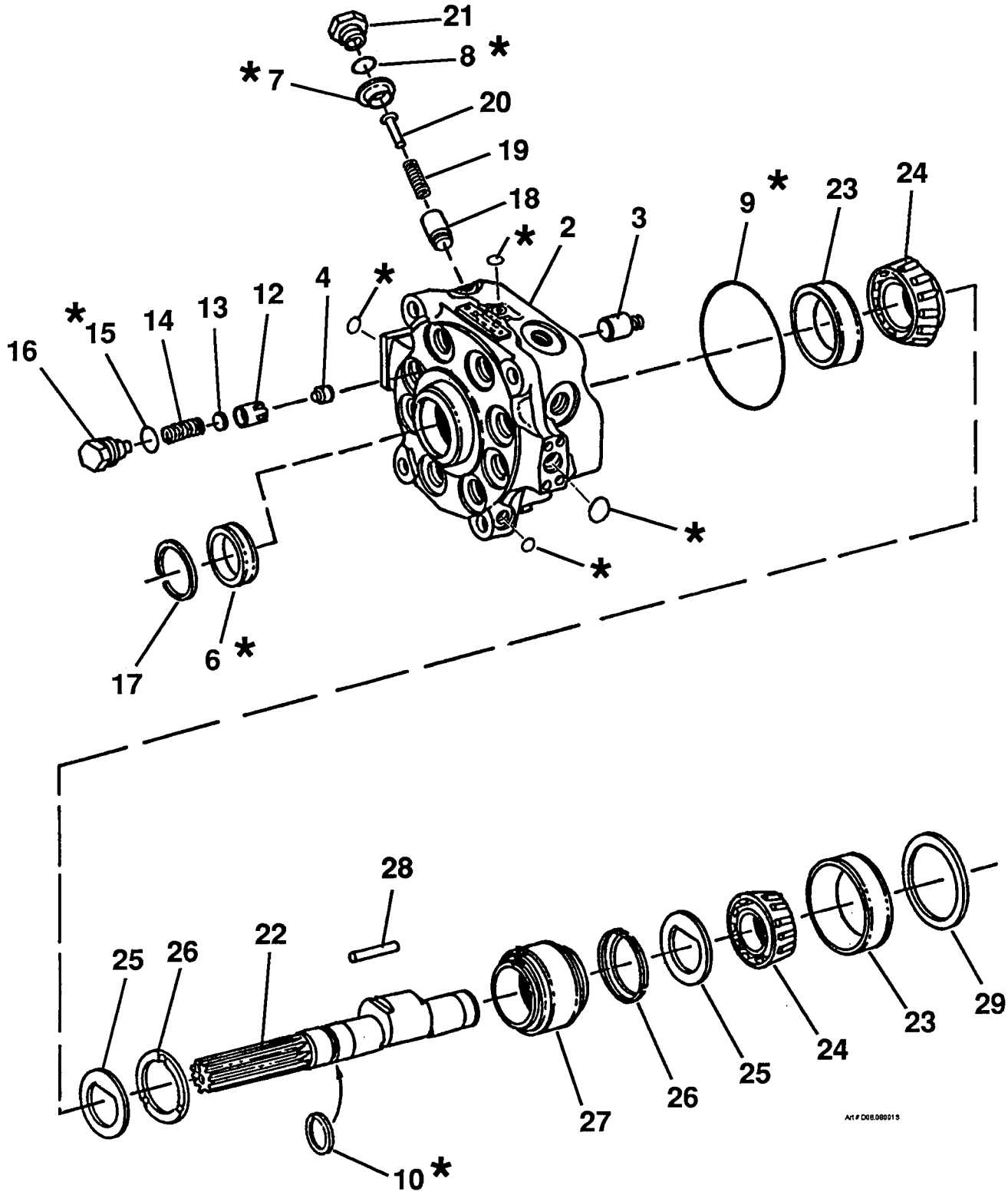
| DESCRIPTION | PART NO. |
|---|---|
| HYDRAULIC PUMP | 01-015000 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | 01-018600 | | PUMP ASSEMBLY, HYDRAULIC (HPR 50)<br>Pump is marked "2472 R115311"<br>**Note:** Type 1 pump, with **non-unitized** control valve (see illustration, Plate 2 of 2). For replacement of complete unit, use 01-019500, shown on Plate D08.13. | 1 |
| 1 | | | HOUSING ASSEMBLY, PUMP | 1 |
| 2 | | | HOUSING, PUMP | 1 |
| 3 | | | VALVE, INLET | 8 |
| 4 | | | SEAT, DISCHARGE VALVE | 8 |
| 5 | 01-018702 | | SEAL KIT (components indicated by astersks, page 1 and 2) | 1 |
| 6 | 01-002605 | * | SEAL, OIL | 1 |
| 7 | | * | SHIELD (plastic) | 8 |
| 8 | | * | "O"-RING | 8 |
| 9 | 01-018704 | * | "O"-RING, CENTER HUB | 1 |
| 10 | 01-018705 | * | RING, SEALING | 1 |
| 11 | | | VALVE, DISCHARGE | 8 |
| 12 | | | GUIDE, VALVE | 1 |
| 13 | | | DISC, DISCHARGE VALVE | 1 |
| 14 | | | SPRING | 1 |
| 15 | | * | "O"-RING | 1 |
| 16 | | | PLUG, DISCHARGE VALVE | 1 |
| 17 | 01-019503 | | RING, SNAP | 1 |
| 18 | | | PISTON | 8 |
| 19 | | | SPRING, PISTON | 8 |
| 20 | | | PIN, COOLING | 8 |
| 21 | 01-019201 | | PLUG, PISTON | 8 |
| 22 | 01-019506 | | SHAFT, PUMP | 1 |
| 23 | 01-019504 | | CUP, PUMP SHAFT BEARING | 2 |
| 24 | 01-019505 | | CONE AND ROLLER, PUMP SHAFT BEARING | 2 |
| 25 | | | SPACER | 2 |
| 26 | 01-019510 | | WASHER, THRUST | 2 |
| 27 | 01-019508 | | RACE, BEARING | 1 |
| 28 | 01-019507 | | ROLLER, NEEDLE | 25 |
| 29 | 01-019509 | | SHIM (0.15 mm) | A.R. |
| | | | SHIM (0.25 mm) | A.R. |

TITLE: HYDRAULIC PUMP ASSEMBLY (PLATE 1 OF 2)

PLATE NO. D08.08 | **SIMON AERIALS INC.** REV. 09/27/91 | PART NO. 01-018600



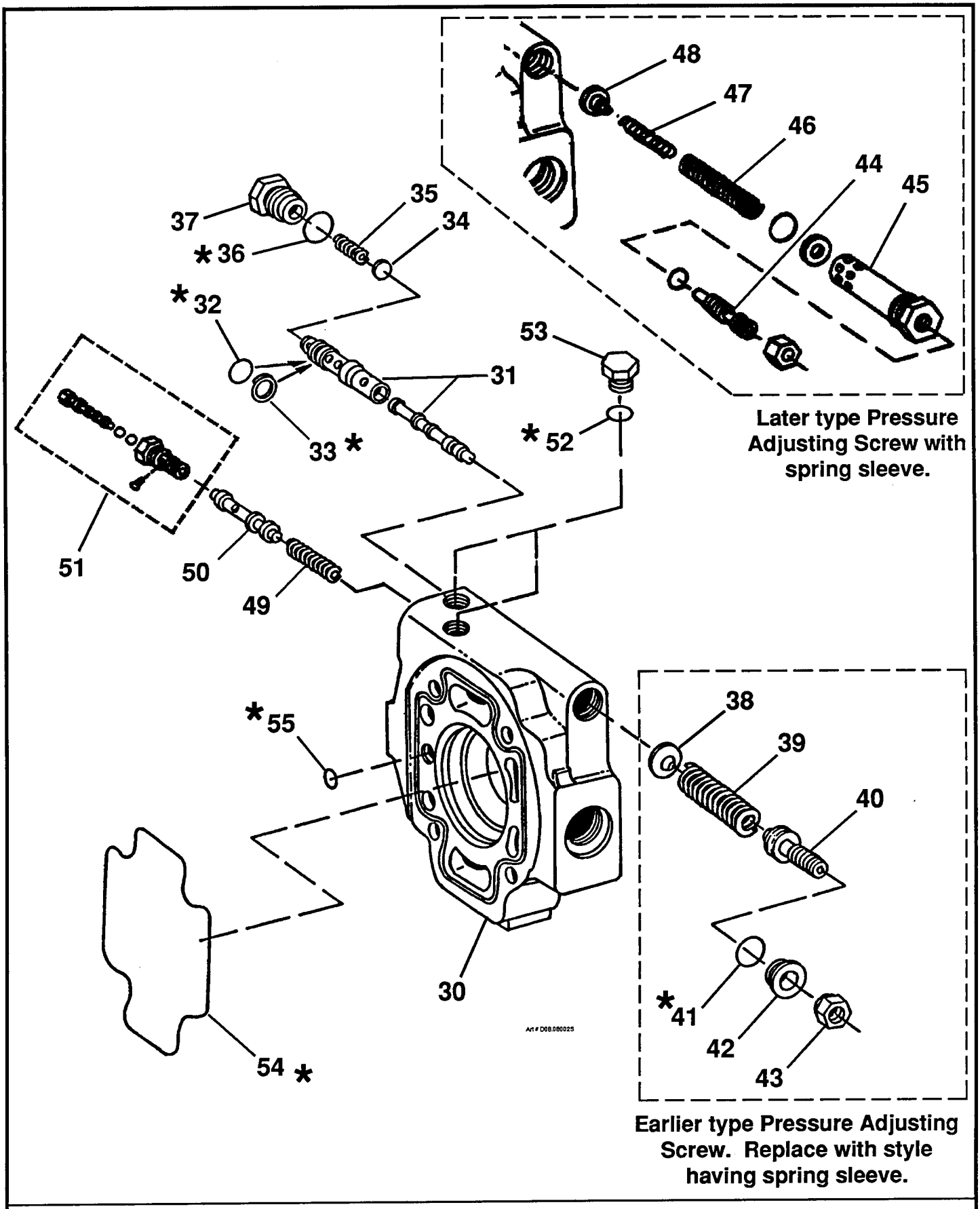

| TITLE | HYDRAULIC PUMP ASSEMBLY (PLATE 1 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 09/27/91 | PART NO. 01-018600 | PLATE NO. D08.08 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 5 | 01-018702 | | SEAL KIT (components indicated by asterisks, page 1 and 2) | 1 |
| 30 | | | HOUSING, PUMP INLET | 1 |
| 31 | 01-018706 | | VALVE, PRESSURE COMPENSATOR CONTROL | 1 |
| 32 | | * | "O"-RING | 1 |
| 33 | | * | RING, BACKUP | 1 |
| 34 | | | VALVE, DAMPENING (not used in this application) | 1 |
| | | | **Note:** Must be removed from replacement pump. | |
| 35 | | | SPRING, DAMPENING VALVE (not used in this application) | 1 |
| | | | **Note:** Must be removed from replacement pump. | |
| 36 | | * | "O"-RING | 1 |
| 37 | | | PLUG, PRESSURE COMPENSATOR | 1 |
| 38 | | | GUIDE, SPRING | 1 |
| 39 | | | SPRING, PRESSURE COMPENSATOR | 1 |
| 40 | | | SCREW ASSEMBLY, PUMP PRESSURE ADJUSTING | |
| | | | **Note:** Older type shown (items 40 thru 43), without sleeve. | |
| | | | **Pressure compensator** should be updated to latest type, | |
| | | | which has spring sleeve (items 44 thru 48). | 1 |
| 41 | | * | "O"-RING | 1 |
| 42 | | | PLUG | 1 |
| 43 | | | NUT | 1 |
| 44 | | | SCREW, PUMP PRESSURE ADJUSTING | 1 |
| 45 | | | BUSHING (with spring sleeve) | 1 |
| 46 | | | SPRING, PRESSURE COMPENSATOR (outer) | 1 |
| 47 | | | SPRING, PRESSURE COMPENSATOR (inner) | 1 |
| 48 | | | GUIDE, SPRING | 1 |
| 49 | | | SPRING, SHUTTLE VALVE | 1 |
| 50 | | | VALVE, SHUTTLE | 1 |
| 51 | | | DESTROKE, MANUAL | 1 |
| 52 | | * | "O"-RING | 1 |
| 53 | | | PLUG | 1 |
| 54 | | * | PACKING, INLET HOUSING TO PUMP HOUSING | 1 |
| 55 | | * | PACKING, HIGH PRESSURE PASSAGE | 1 |

TITLE HYDRAULIC PUMP (NON-UNITIZED CONTROL VALVE) (PLATE 2 OF 2)

| PLATE NO. | | | REV. | PART NO. |
|---|---|---|---|---|
| D08.08 | **SIMON AERIALS INC.** | | 05/24/91 | 01-018600 |




TITLE HYDRAULIC PUMP (NON-UNITIZED CONTROL VALVE) (PLATE 2 OF 2)

| SIMON AERIALS INC. | REV. 09/27/91 | PART NO. 01-018600 | PLATE NO. D08.08 |
|---|---|---|---|

# PARTS LIST

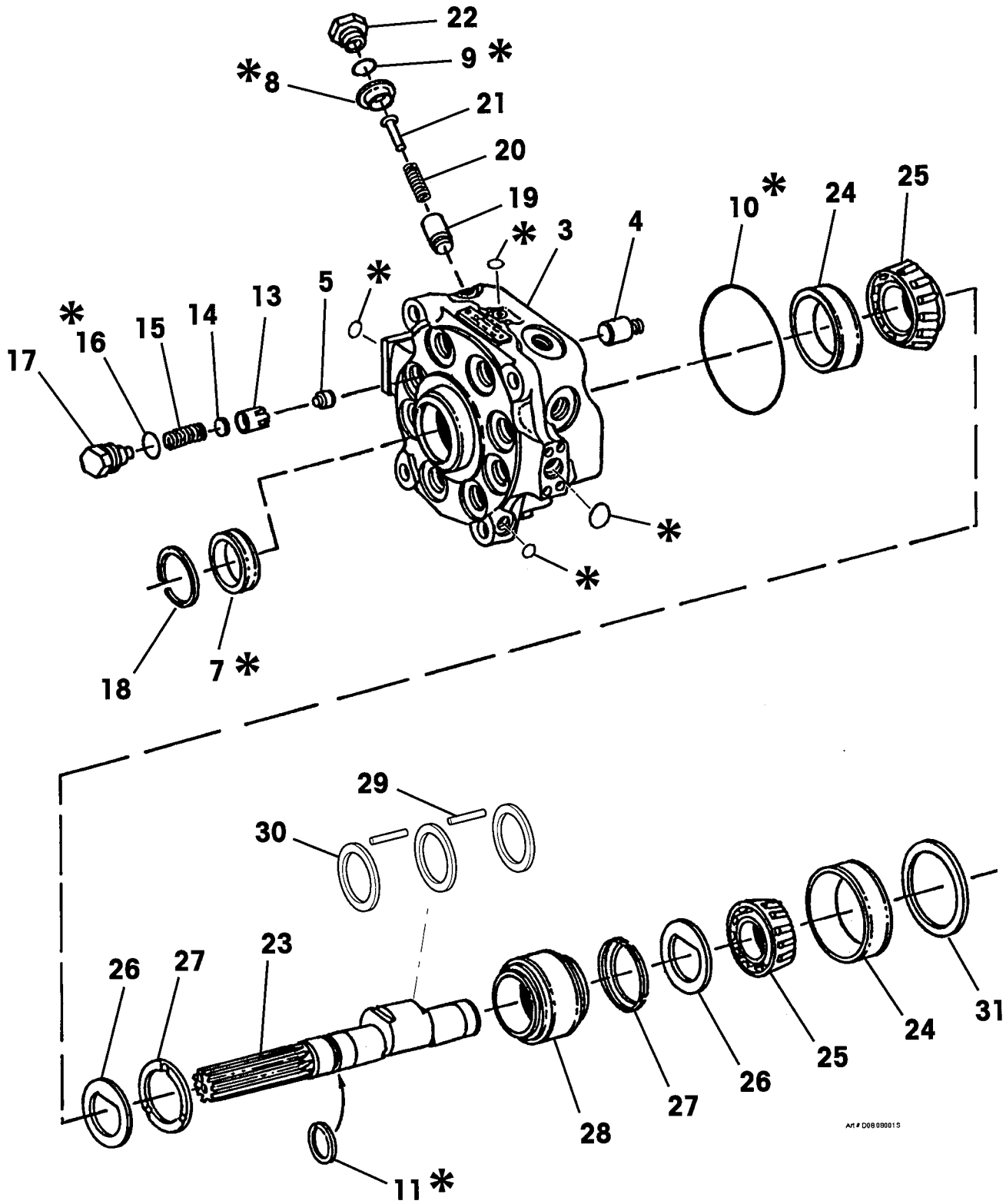
| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | PUMP ASSEMBLY, HYDRAULIC | 1 |
| | | | **Note:** These are "Type 2" pumps, with unitized control valve design. | |
| | 01-206900 | | HPR 40 (marked "*ROPV **312** XXXXXX*" and "24 **71** R11531") | |
| | 01-019500 | | HPR 50 (marked "*ROPV **322** XXXXXX*" and "24 **72** R11531") | |
| | 01-018700 | | HPR 65 (marked "*ROPV **332** XXXXXX*" and "24 **73** R11531") | |
| 2 | | | HOUSING ASSEMBLY, PUMP | 1 |
| 3 | | | HOUSING, PUMP | 1 |
| 4 | 01-019519 | | VALVE, INLET | 8 |
| 5 | 01-019518 | | SEAT, DISCHARGE VALVE | 8 |
| 6 | 01-018707 | | SEAL KIT (components indicated by asterisks, page 1 and 2) | 1 |
| 7 | 01-002605 | * | SEAL, OIL | 1 |
| 8 | | * | SHIELD (plastic) | 8 |
| 9 | 01-019512 | * | "O"-RING | 8 |
| 10 | 01-018704 | * | "O"-RING, CENTER HUB | 1 |
| 11 | 01-018705 | * | RING, SEALING | 1 |
| 12 | | | VALVE, DISCHARGE | 8 |
| 13 | 01-019517 | | GUIDE, VALVE | 1 |
| 14 | 01-018715 | | DISC, DISCHARGE VALVE | 1 |
| 15 | 01-019516 | | SPRING | 1 |
| 16 | 01-019515 | * | "O"-RING | 1 |
| 17 | | | PLUG, DISCHARGE VALVE | 1 |
| 18 | 01-019503 | | RING, SNAP | 1 |
| 19 | 01-019514 | | PISTON | 8 |
| 20 | 01-019513 | | SPRING, PISTON | 8 |
| 21 | 01-019520 | | PIN, COOLING | 8 |
| 22 | | | PLUG, PISTON | 8 |
| 23 | | | SHAFT, PUMP | 1 |
| | | | for Model HPR 40 | |
| | 01-019506 | | for Model HPR 50 | |
| | 01-018708 | | for Model HPR 65 | |
| 24 | 01-019504 | | CUP, PUMP SHAFT BEARING | 2 |
| 25 | 01-019505 | | CONE AND ROLLER, PUMP SHAFT BEARING | 2 |
| 26 | 01-018710 | | SPACER | 2 |
| 27 | 01-019510 | | WASHER, THRUST | 2 |
| 28 | 01-019508 | | RACE, BEARING | 1 |
| 29 | 01-019507 | | ROLLER, NEEDLE | 50 |
| 30 | 01-019521 | | SPACER, NEEDLE ROLLER | 3 |
| 31 | 01-019509 | | SHIM (0.15 mm) | A.R. |
| | | | SHIM (0.25 mm) | A.R. |

TITLE

HYDRAULIC PUMP ASSEMBLY

| SECTION | PLATE NO. | PAGE | REV. | DATED | PART NO. |
|---|---|---|---|---|---|
| D08. | 13 | 01 | A | 08 OCT., 1996 | |

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172




| | | | | | | |
|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE<br>HYDRAULIC PUMP ASSEMBLY | | | | | |
| | PART NO. | REV. A | DATED 08 OCT., 1996 | SECTION D08. | PLATE NO. 13 | PAGE 01 |

# PARTS LIST

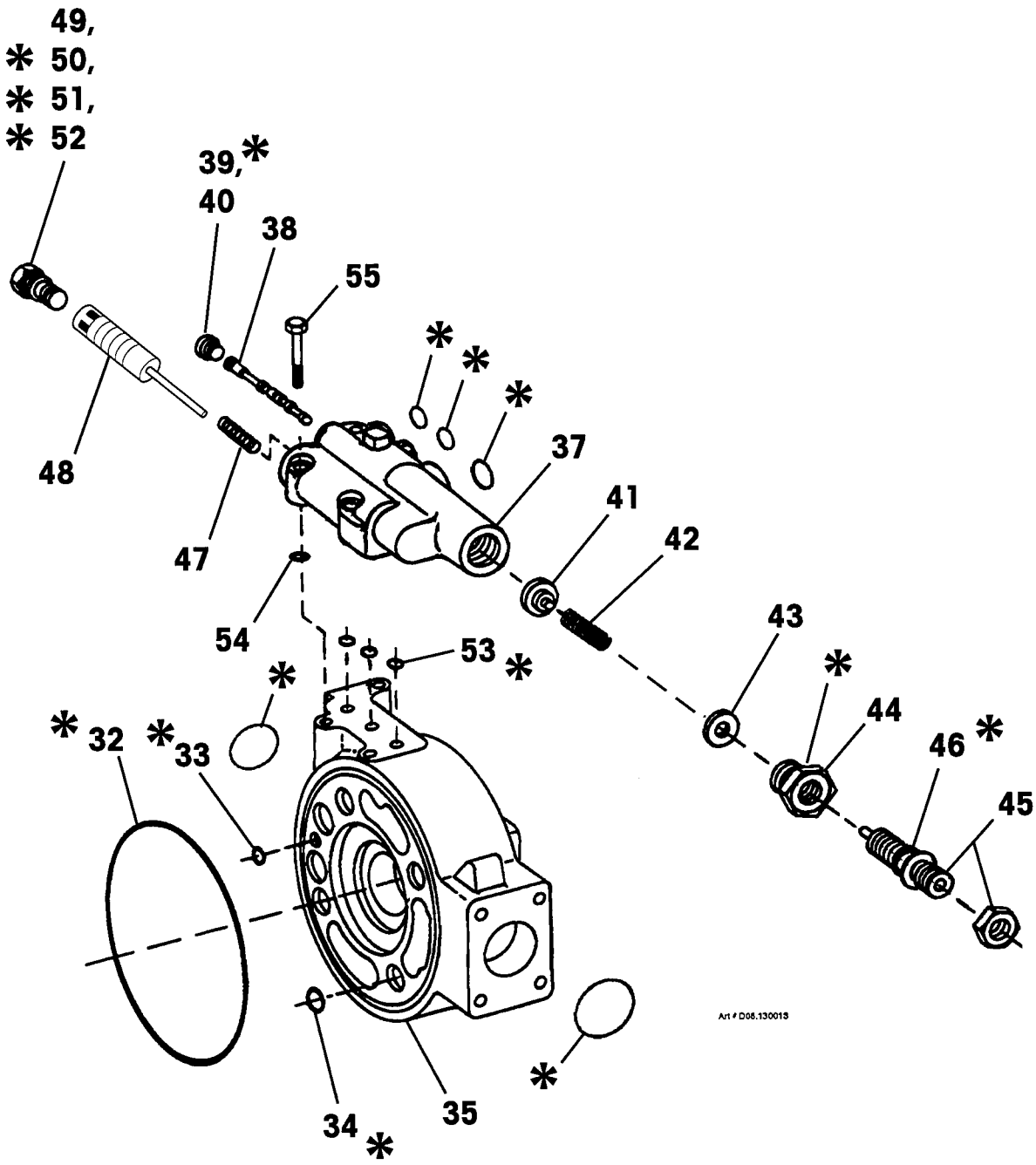
| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 6 | 01-018707 | | SEAL KIT (components indicated by asterisks, page 1 and 2) | 1 |
| 32 | 01-018711 | * | PACKING, INLET HOUSING TO PUMP HOUSING | 1 |
| 33 | | * | PACKING, HIGH PRESSURE PASSAGE | 1 |
| 34 | | * | PACKING, BOLT PASSAGE | 4 |
| 35 | | | HOUSING, PUMP INLET | 1 |
| 36 | 01-019502 | | VALVE ASSEMBLY, CONTROL | 1 |
| 37 | | | HOUSING, PRESSURE COMPENSATOR | 1 |
| 38 | | | VALVE, PRESSURE COMPENSATOR CONTROL | 1 |
| 39 | | * | "O"-RING | 1 |
| 40 | | | PLUG, PRESSURE COMPENSATOR | 1 |
| 41 | | | GUIDE, SPRING | 1 |
| 42 | | | SPRING, PRESSURE COMPENSATOR | 1 |
| 43 | | * | WASHER | 1 |
| 44 | | | PLUG, ADJUSTING | 1 |
| 45 | | | SCREW ASSEMBLY, PUMP PRESSURE ADJUSTING | 1 |
| 46 | | * | "O"-RING | 1 |
| 47 | | | SPRING, CRANKCASE RELIEF VALVE | 1 |
| 48 | | | VALVE, EXTERNAL CONTROL | 1 |
| 49 | | | PLUG, DESTROKE | 1 |
| 50 | | * | "O"-RING | 1 |
| 51 | | * | "O"-RING | 1 |
| 52 | | * | PLUG | 1 |
| 53 | | * | PACKING, PRESSURE | 3 |
| 54 | | * | SHIM, PRESSURE COMPENSATOR HOUSING | A.R. |
| 55 | | | CAP SCREW, HEX HEAD | 3 |

TITLE

HYDRAULIC PUMP ASSEMBLY (UNITIZED CONTROL VALVE)

| SECTION | PLATE NO. | PAGE | REV. | DATED | PART NO. |
|---|---|---|---|---|---|
| D08. | 13 | 02 | A | 08 OCT., 1996 | |

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
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Fax 414-355-3172




| | | | | | | |
|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE<br>HYDRAULIC PUMP ASSEMBLY (UNITIZED CONTROL VALVE) | | | | | |
| | PART NO. | REV. A | DATED 08 OCT., 1996 | SECTION D08. | PLATE NO. 13 | PAGE 02 |

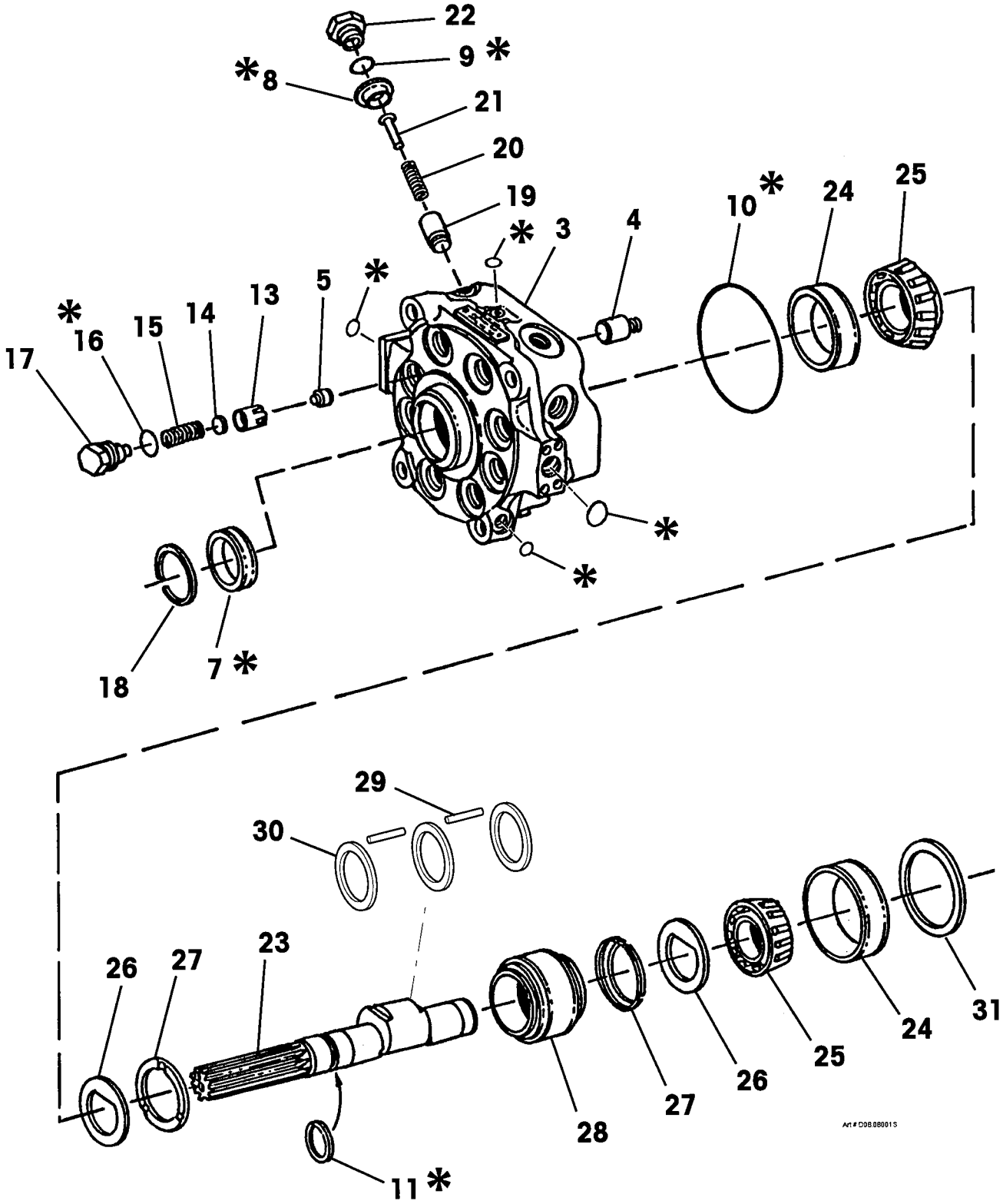
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | The following items **are not** included with the Hydraulic Pump: | |
| | | | **Suction Fittings:** | |
| 56 | 06-214400 | | FLANGE, SUCTION FITTING (2" SAE flange) (32 CFHC)<br>(includes two halves and mounting hardware) | 1 |
| 57 | | | FITTING, SUCTION | 1 |
| | 06-216100 | | 90°, 2" stem to 2" hose (32 C4-32 FL90) | |
| | 06-196900 | | 90°, 2" SAE flange to 2" hose (23867-32-32 FC) | |
| | | | (**Obsolete**. Use 06-216100 and 06-214400.) | |
| | 06-214300 | | 90°, 2" stem to 1-1/2" hose (24-32 FL90) | |
| | 06-195700 | | 90°, 2" SAE flange to 1-1/2" hose (23867-24-32 FC)<br>(**Obsolete**. Use 06-214300 and 06-214400.) | |
| | 06-216200 | | 45°, 2" stem to 1-1/2" hose (24-32 FL45) | |
| | 06-195600 | | 45°, 2" SAE flange to 1-1/2" hose (23868-24-32 FC)<br>(**Obsolete**. Use 06-216200 and 06-214400.) | |
| | | | **Pressure Fittings:** | |
| 58 | 06-213800 | | FLANGE KIT, PRESSURE FITTING (16 CFHS-87989)<br>(includes two halves and mounting hardware) | 1 |
| 59 | | | ADAPTER, STEM | 1 |
| | 06-213900 | | (16 FL5K-12MJ90) | |
| | 06-215700 | | (16 FL5K-16MJ90) | |
| 60 | 06-202100 | | FITTING, COMPANION FLANGE (L1-16-16S-30) | |
| | | | (**Obsolete**. Use 06-213800 and 06-213900.) | |
| | 06-195800 | | FITTING KIT, FLANGE (SAE #16, 4 bolt) (5151 HK-16) (**Obsolete.**) | |
| 61 | 06-215800 | | 45° ELBOW, "O"-RING TO 37° (10 V50X-S) | 1 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

TITLE: HYDRAULIC PUMP ASSEMBLY

| SECTION | PLATE NO. | PAGE | REV. | DATED | PART NO. |
|---|---|---|---|---|---|
| D08. | 13 | 03 | A | 08 OCT., 1996 | |

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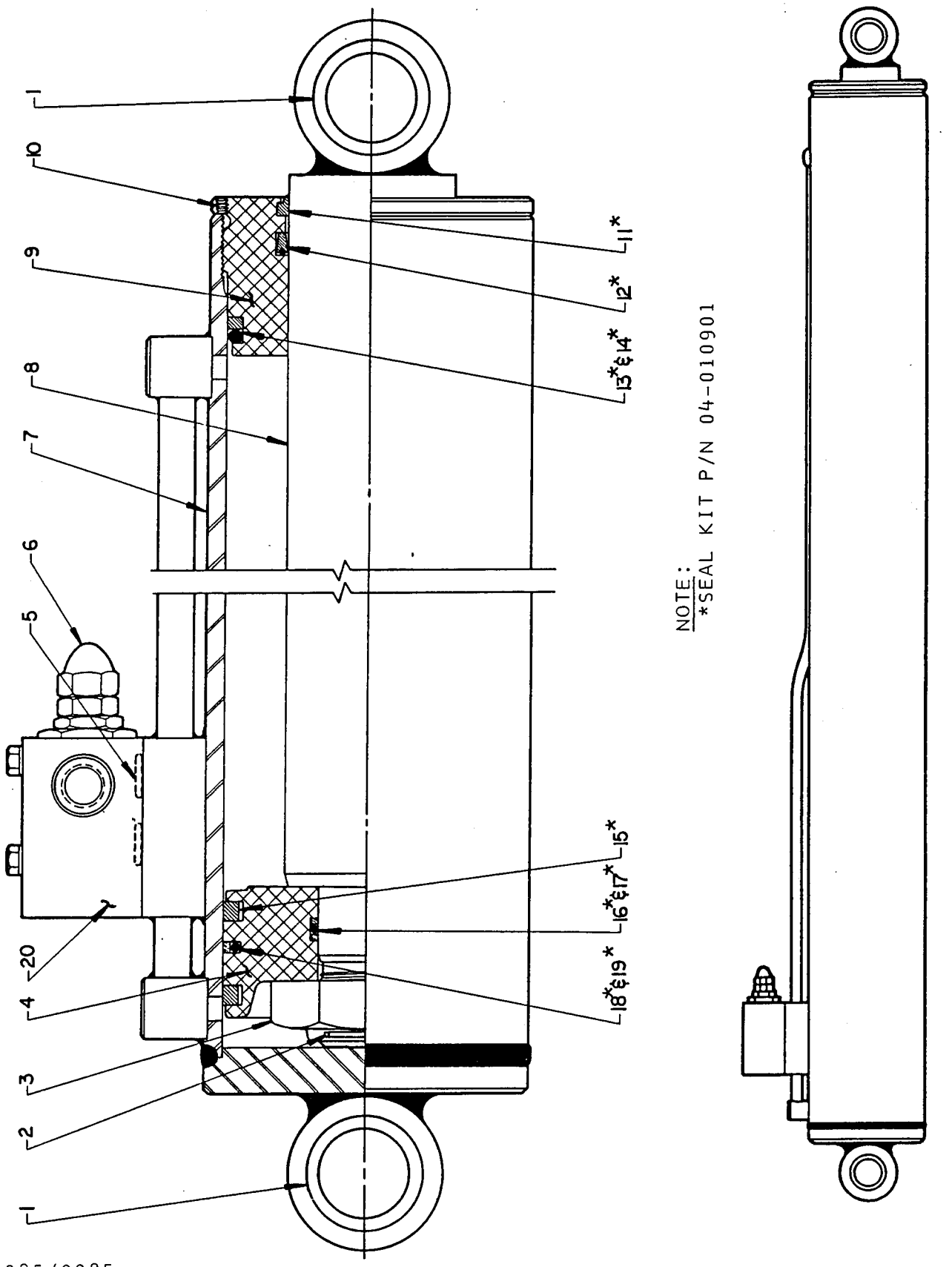



| | | | | | | |
|---|---|---|---|---|---|---|
| Simon Aerials Inc.<br>10600 West Brown Deer Road<br>Milwaukee Wisconsin 53224 USA<br>Parts Phone 1-800-47-SIMON<br>24 Hr (Machine) 414-362-8280<br>Fax 414-355-3172 | TITLE<br>HYDRAULIC PUMP ASSEMBLY | | | | | |
| | PART NO. | REV. A | DATED 08 OCT., 1996 | SECTION D08. | PLATE NO. 13 | PAGE 03 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | BUSHING | 4 |
| 2 | | | COTTER KEY | 1 |
| 3 | | | PISTON NUT | 1 |
| 4 | | | PISTON | 1 |
| 5 | | | 'O' RING | 2 |
| 6 | 01-023900 | | HOLDING VALVE | 1 |
| 7 | | | CASE | 1 |
| 8 | | | ROD | 1 |
| 9 | | | HEAD GLAND | 1 |
| 10 | | | SET SCREW | 1 |
| 11* | | | WIPER | 1 |
| 12* | | | ROD SEAL | 1 |
| 13* | | | 'O' RING | 1 |
| 14* | | | BACK-UP RING | 1 |
| 15* | | | PISTON RING | 2 |
| 16* | | | 'O' RING | 1 |
| 17* | | | BACK-UP RING | 2 |
| 18* | | | 'O' RING | 1 |
| 19 | | | PISTON SEAL | 1 |
| 20 | | | VALVE BLOCK | 1 |
| * | 04-010901 | | SEAL KIT | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| LIFT CYLINDER | 04-010900 |




1085/0985

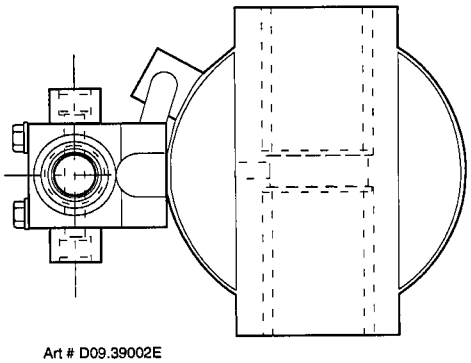
| DESCRIPTION | PART NO. |
|---|---|
| LIFT CYLINDER | 04-010900 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | CYLINDER ASSEMBLY, BOOM LIFT | |
| | 04-035800 | | For Models MPH 80, MP 95, RP120 "Reach Plus" (without pads for boom angle sensors) | 1 |
| | 2144320 | | For Model MP 110 (with pads for boom angle sensors) | 1 |
| 1 | | | CASE, CYLINDER (when used on model MP 110, must be modified by adding pads for boom angle sensors) | 1 |
| 2 | | | ROD, CYLINDER | 1 |
| 3 | | | PISTON | 1 |
| 4 | | | GLAND, HEAD | 1 |
| 5 | | | NUT, PISTON ROD | 1 |
| 6 | 04-035802 | | BUSHING | 4 |
| 7 | 04-035801 | | SEAL KIT (not for use with water-glycol hydraulic fluid) **Note:** Items in kit identified by asterisk (*). | 1 |
| 8 | | | WIPER, ROD | 1 |
| 9 | | | SEAL, ROD | 1 |
| 10 | | | RING, ROD WEAR | 4 |
| 11 | | | "O"-RING | 1 |
| 12 | | | RING, BACKUP | 1 |
| 13 | | | "O"-RING | 1 |
| 14 | | | RING, BACKUP | 1 |
| 15 | | | "O"-RING | 1 |
| 16 | | | SEAL, PISTON | 1 |
| 17 | | | RING, PISTON WEAR | 2 |
| 18 | | | VALVE BLOCK | 1 |
| 19 | | | "O"-RING | 2 |
| 20 | | | CAP SCREW, HEX HEAD (3/8"-16 x 3") | 4 |
| 21 | | | WASHER, LOCK | 4 |
| | | | The following item **is not** part of the cylinder assembly: | |
| 22 | 01-222000 | | VALVE, COUNTERBALANCE (Holding valve) 10:1 (Factory set at 4900 PSI [338 Bar] [344.5 Kg/ $cm^2$]) | 1 |
| | 04-021402 | | (For units built after approximately 10 December 1992. Supercedes 04-021402 as replacement on earlier units.) 25:1 Ratio (Originally supplied on units built through about 10 December 1992. Has been superceded by 01-222000.) | |

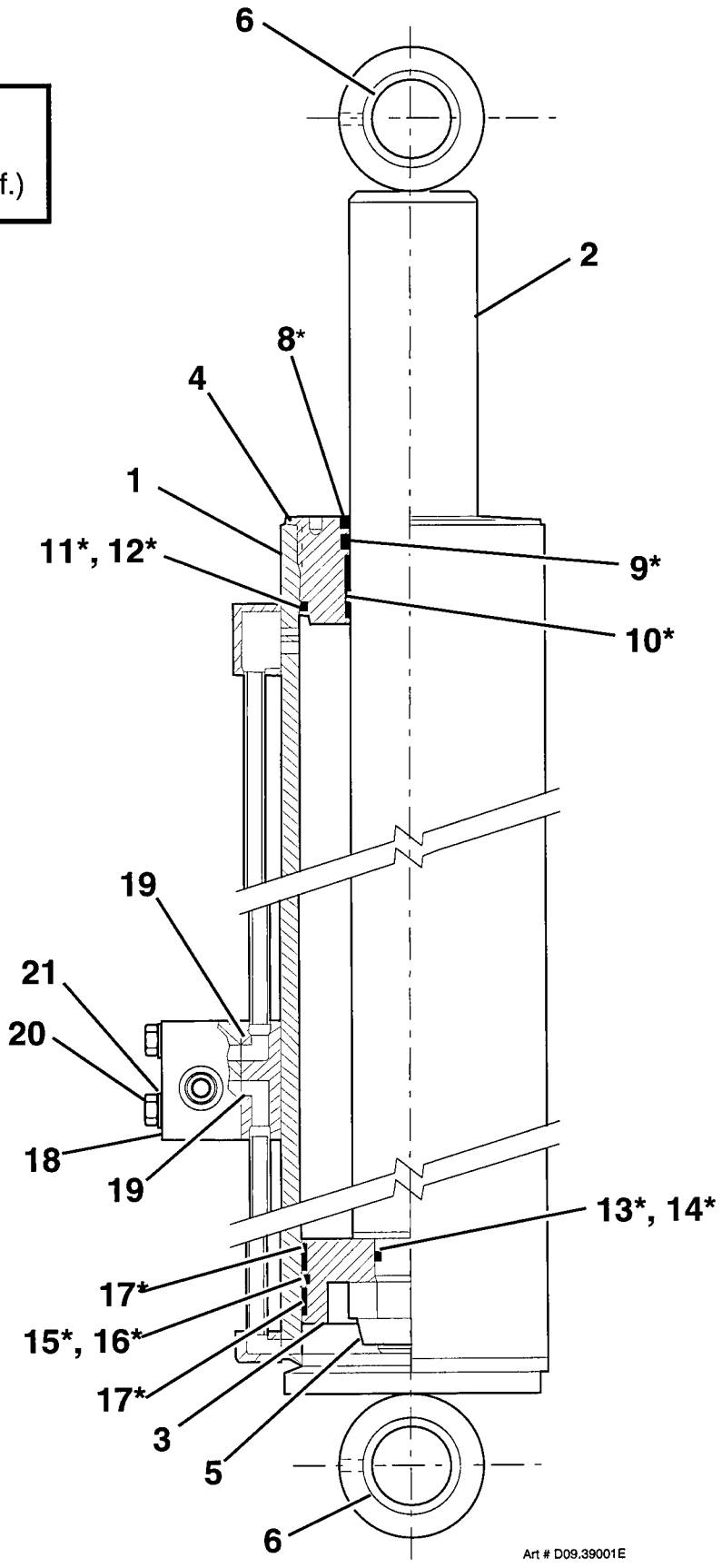
| | | | | | |
|---|---|---|---|---|---|
| TITLE | LIFT CYLINDER, 62.0" (1.58 M) STROKE | | | | |
| PLATE NO. | D09.39 | **SIMON AERIALS INC.** | REV. 15 FEB., 1995 | PART NO. | 04-035800 |

**Note:**
85" (2.16 M) fully retracted,
147" (3.73 M) fully extended (ref.)



Art # D09.39002E

**View of Base End**



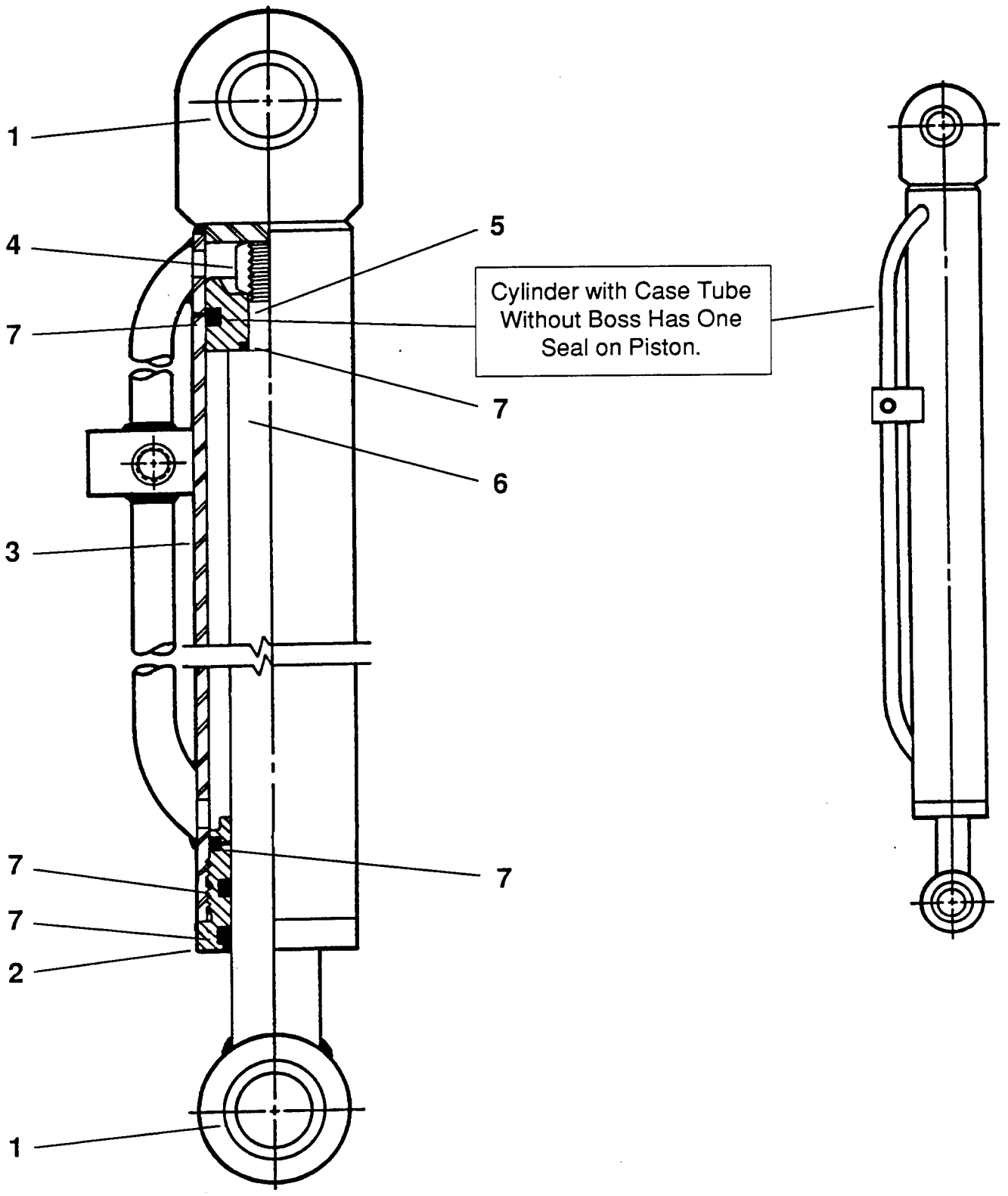

Art # D09.39001E

| TITLE | LIFT CYLINDER, 62.0" (1.58 M) STROKE | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 15 FEB., 1995 | | PART NO. 04-035800 | PLATE NO. D09.39 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | BUSHING | 3 |
| 2 | | | GLAND, HEAD | 1 |
| 3 | | | CASE | 1 |
| 4 | | | NUT, PISTON | 1 |
| 5 | | | PISTON | 1 |
| 6 | | | ROD | 1 |
| 7 | 04-007101 | | SEAL KIT<br>**NOTE:** ITEMS IN SEAL KIT IDENTIFIED BY AN ASTERISK (*). | 1 |

| TITLE | MASTER LEVEL CYLINDER | | |
|---|---|---|---|
| PLATE NO. D10.02 | **SIMON AERIALS INC.** | ORIGIN 08/03/90 | PART NO. 04-007400 |

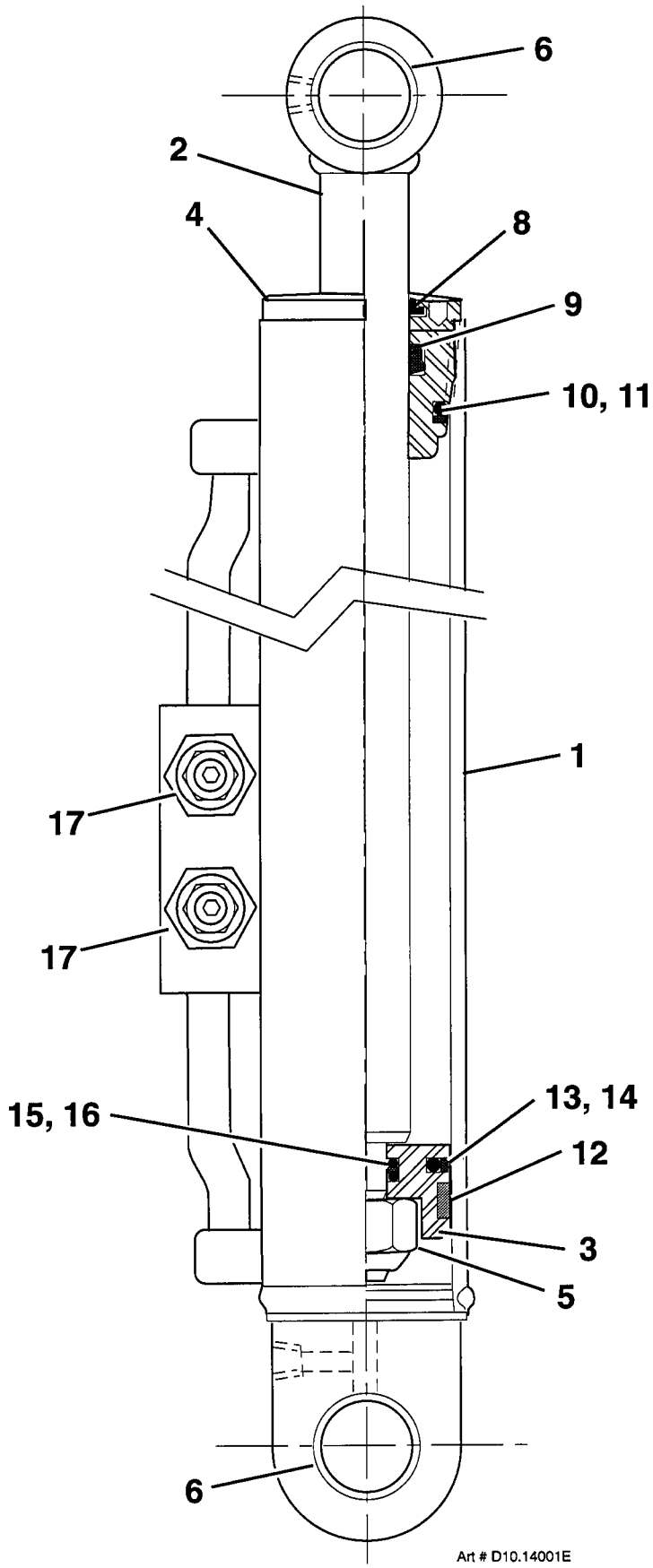



| TITLE | MASTER LEVEL CYLINDER | | |
|---|---|---|---|
| **SIMON AERIALS INC.** ORIGIN 08/03/90 | PART NO. 04-007400 | PLATE NO. D10.02 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | Cylinder can be identified by Part Number "04035500SH" on nameplate located on valve block. | |
| 1 | | | CASE, CYLINDER | 1 |
| 2 | | | ROD, CYLINDER | 1 |
| 3 | | | PISTON | 1 |
| 4 | | | GLAND, HEAD | 1 |
| 5 | | | NUT, LOCK | 1 |
| 6 | 04-035401 | | BUSHING | 4 |
| 7 | 04-032601 | | SEAL KIT | 1 |
| 8 | | | WIPER, ROD | 1 |
| 9 | | | SEAL, ROD | 1 |
| 10 | | | "O"-RING | 1 |
| 11 | | | RING, BACKUP | 1 |
| 12 | | | RING, PISTON WEAR | 1 |
| 13 | | | "O"-RING | 1 |
| 14 | | | SEAL, PISTON | 1 |
| 15 | | | "O"-RING | 1 |
| 16 | | | WASHER, BACKUP | 1 |
| 17 | 04-028202 | | CARTRIDGE, HOLDING VALVE (Cartridge is stamped "RDDA-3250 PSI-N") | 2 |
| 18 | 04-028204 | | SEAL KIT, HOLDING VALVE | 1 |

| | | | |
|---|---|---|---|
| TITLE | MASTER LEVEL CYLINDER, 17-3/4" (.45 M) STROKE | | |
| PLATE NO. D10.14 | **SIMON AERIALS INC.** | NEW 27 APR., 1994 | PART NO. 04-035500 |




| TITLE | MASTER LEVEL CYLINDER, 17-3/4" (.45 M) STROKE | | |
|---|---|---|---|
| **SIMON AERIALS INC.** NEW 27 APR., 1994 | | PART NO. 04-035500 | PLATE NO. D10.14 |

# PARTS LIST

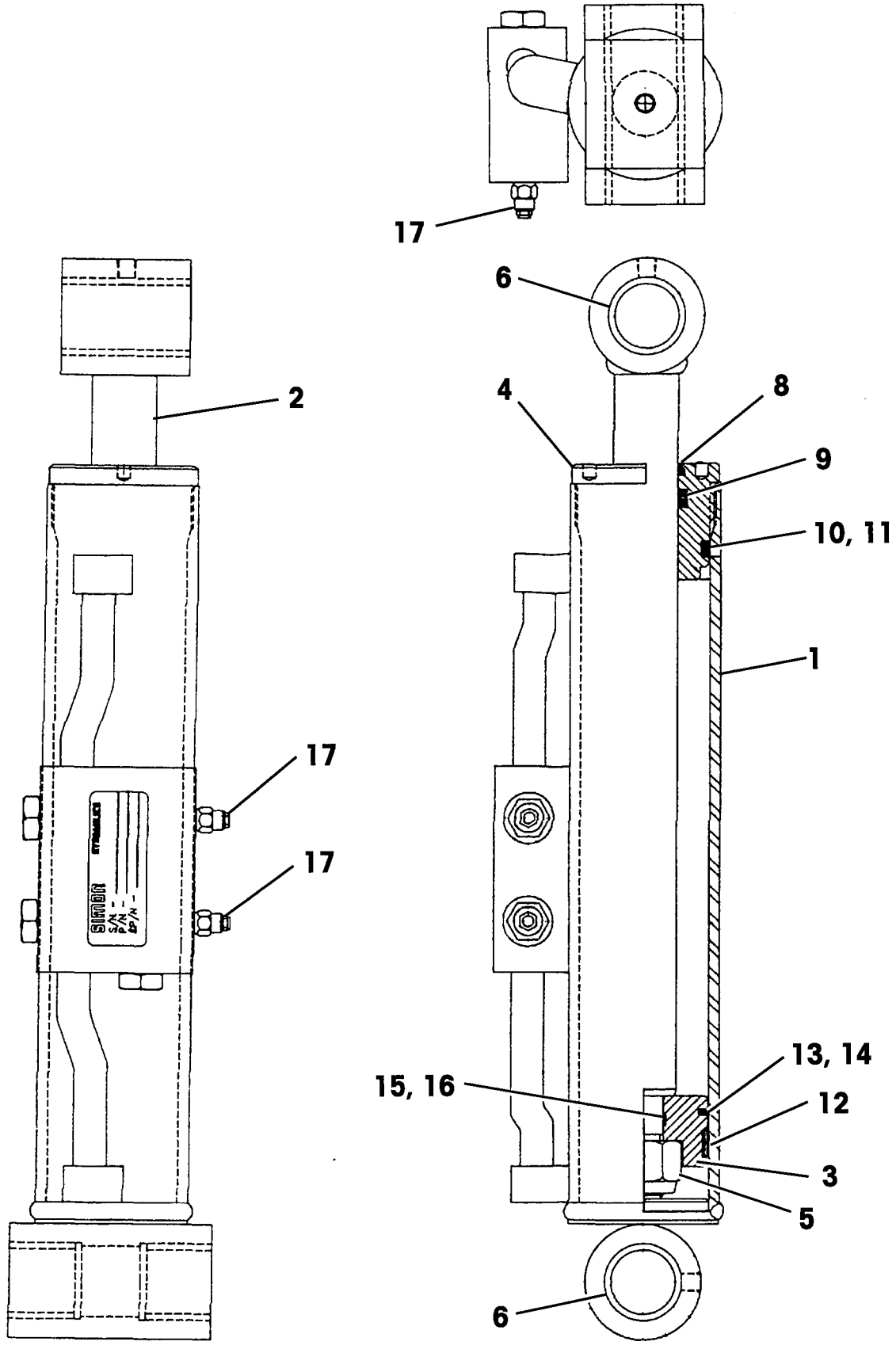
| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | Cylinder can be identified by Part Number "04032600SH" on nameplate located on valve block. | |
| 1 | | | CASE, CYLINDER | 1 |
| 2 | 04-032605 | | ROD, CYLINDER | 1 |
| 3 | 04-032603 | | PISTON | 1 |
| 4 | 04-032604 | | GLAND, HEAD | 1 |
| 5 | 04-032602 | | NUT, LOCK | 1 |
| 6 | 04-032406 | | BUSHING | 4 |
| 7 | 04-032601 | | SEAL KIT | 1 |
| 8 | | | WIPER, ROD | 1 |
| 9 | | | SEAL, ROD | 1 |
| 10 | | | "O"-RING | 1 |
| 11 | | | RING, BACKUP | 1 |
| 12 | | | RING, PISTON WEAR | 1 |
| 13 | | | "O"-RING | 1 |
| 14 | | | SEAL, PISTON | 1 |
| 15 | | | "O"-RING | 1 |
| 16 | | | WASHER, BACKUP | 1 |
| 17 | 04-028202 | | CARTRIDGE, HOLDING VALVE | 2 |
| 18 | 04-028204 | | SEAL KIT, HOLDING VALVE | 1 |

TITLE

MASTER LEVEL CYLINDER, 10" (.25 M) STROKE

| SECTION | PLATE NO. | PAGE | REV. | DATED | PART NO. |
|---|---|---|---|---|---|
| D10. | 101 | 01 | - | 03 DEC., 1992 | 04-032 600 |

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TITLE

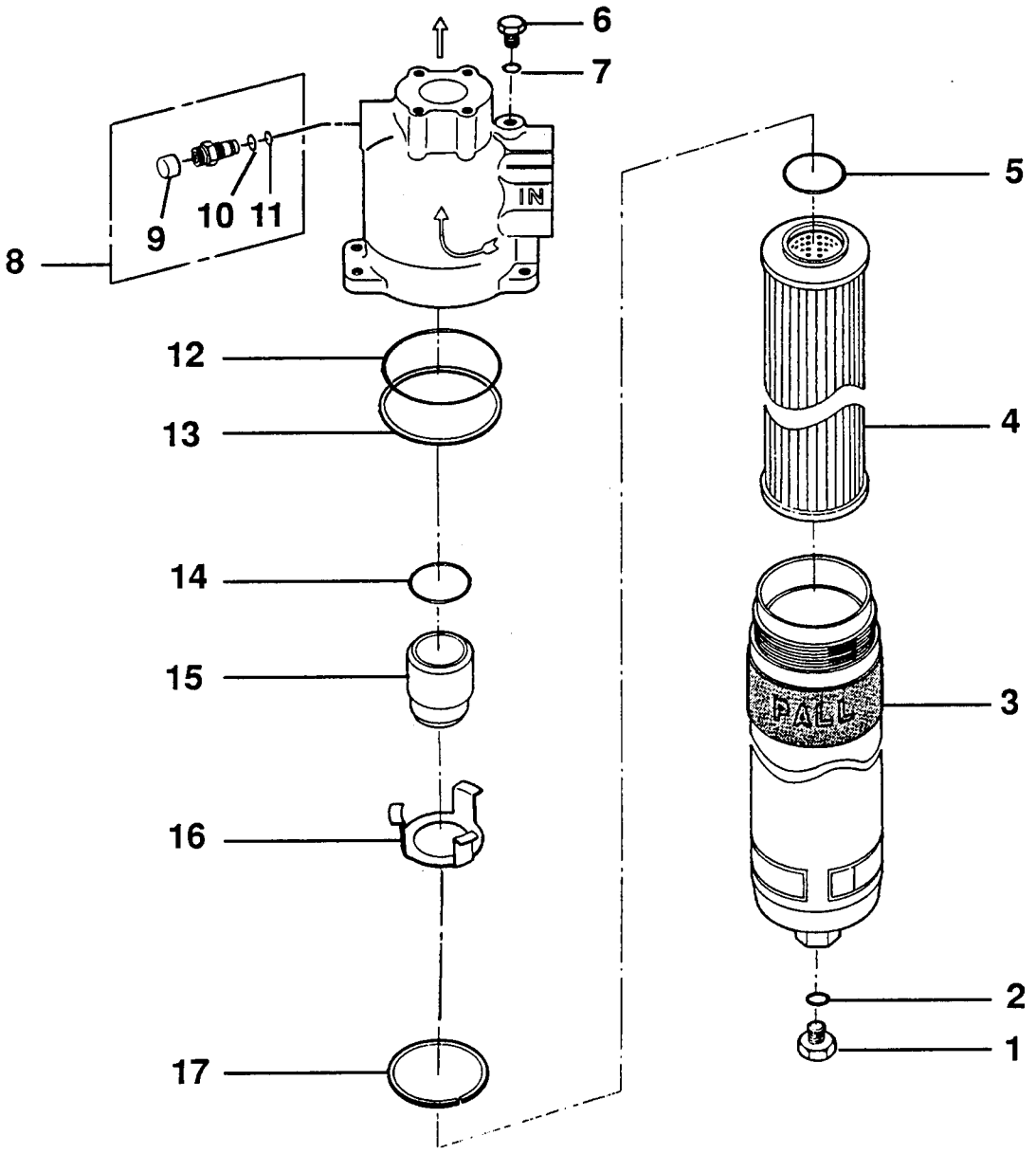
# MASTER LEVEL CYLINDER, 10" (.25 M) STROKE

| PART NO. | REV. | DATED | SECTION | PLATE NO. | PAGE |
|---|---|---|---|---|---|
| 04-032 600 | - | 03 DEC., 1992 | D10. | 101 | 01 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-000639 | | PLUG, BLEED | 1 |
| 2 | 01-000602 | | O-RING | 1 |
| 3 | | | BOWL | 1 |
| 4 | 01-000606 | | ELEMENT, FILTER | 1 |
| 5 | | | O-RING | 1 |
| 6 | | | PLUG, BLEED | 1 |
| 7 | | | O-RING | 1 |
| 8 | 01-000640 | | VISUAL INDICATOR ASSEMBLY | 1 |
| 9 | | | DUST COVER | 1 |
| 10 | | | O-RING | 1 |
| 11 | | | O-RING | 1 |
| 12 | 01-000609 | | O-RING | 1 |
| 13 | 01-000608 | | BACKUP RING | 1 |
| 14 | | | O-RING | 1 |
| 15 | | | NIPPLE | 1 |
| 16 | | | VALVE RETAINING COLLAR | 1 |
| 17 | | | RETAINING RING | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | HIGH PRESSURE FILTER | | | |
| PLATE NO. | D11.02 | **SIMON AERIALS INC.** | REV. 11/09/90 | PART NO. 01-000600 |

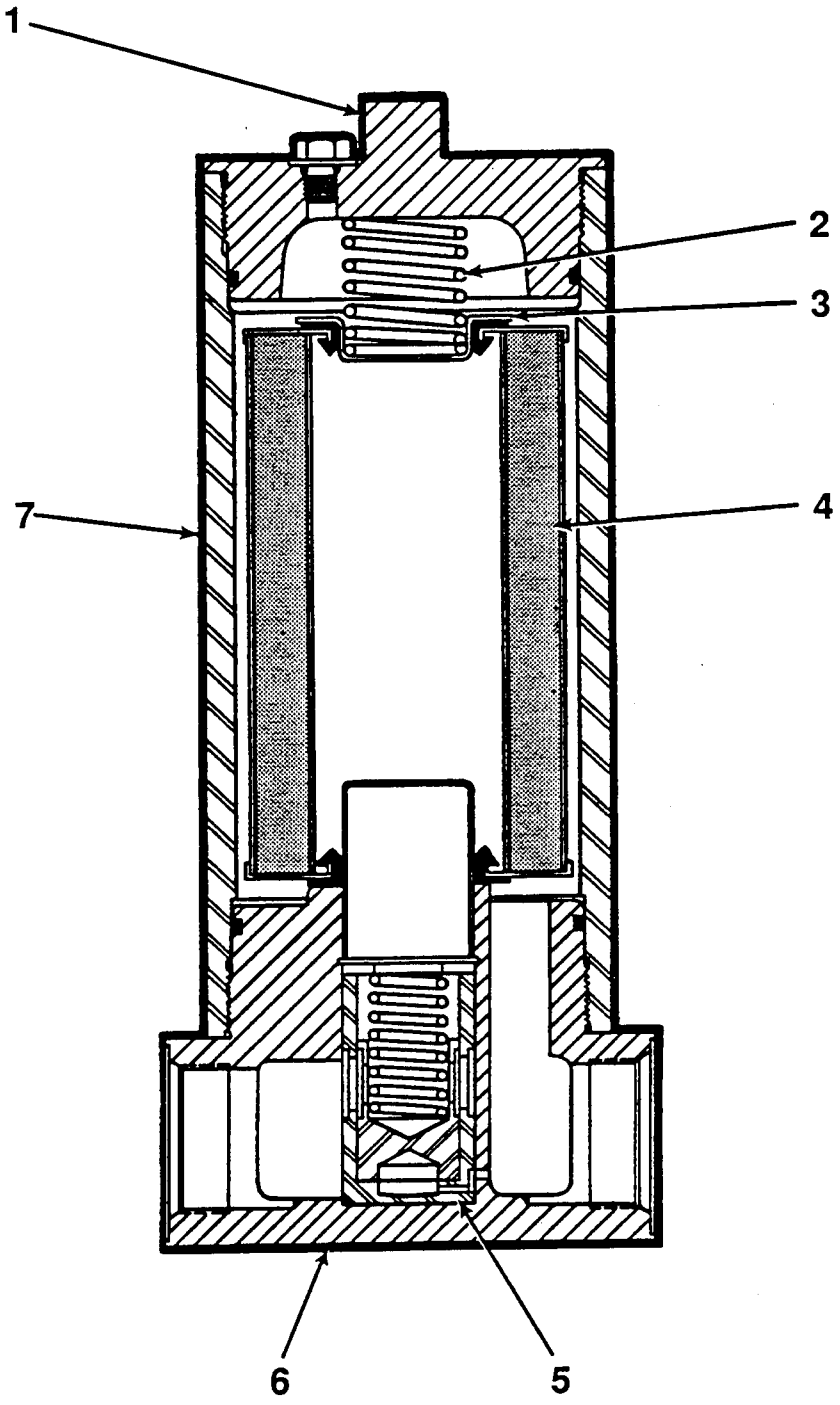



| TITLE | HIGH PRESSURE FILTER | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 11/09/90 | PART NO. 01-000600 | PLATE NO. D11.02 | |

# PARTS LIST

| ITEM | PART NO | SEE SECT. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | PLUG, HOUSING | 1 |
| 2 | 01-014003 | | SPRING, COMPRESSION | 1 |
| 3 | 01-014004 | | CUP, COMPRESSION SPRING | 1 |
| 4 | 01-200700 | | ELEMENT, FILTER (7 micron) | 1 |
| 5 | | | VALVE, BYPASS ASSEMBLY | 1 |
| 6 | | | BLOCK ASSEMBLY | 1 |
| 7 | | | HOUSING | 1 |
| | 01-014002 | | SEAL KIT | 1 |

| TITLE | HIGH PRESSURE FILTER | |
|---|---|---|
| PLATE NO. D11.03 | **SIMON AERIALS INC.** REV. 06/08/90 | PART NO. 01-014000 |

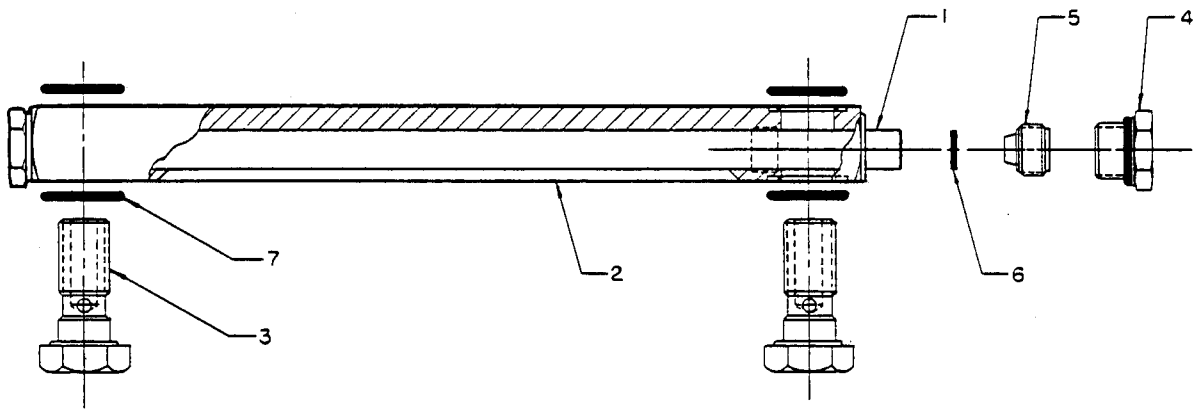



| TITLE | HIGH PRESSURE FILTER | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 06/08/90 | | PART NO. 01-014000 | PLATE NO. D11.03 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | SIGHT GLASS | 1 |
| 2 | | | GAUGE BODY | 1 |
| 3 | | | THRU BOLT | 2 |
| 4 | | | 'O' RING PLUG 9/16 | 2 |
| 5 | | | INTERNAL CAP | 2 |
| 6 | | | INTERNAL SEAL | 2 |
| 7 | | | 'O' RING | 4 |

| DESCRIPTION | PART NO. |
|---|---|
| SIGHT GAUGE 12" | 10-033500 |



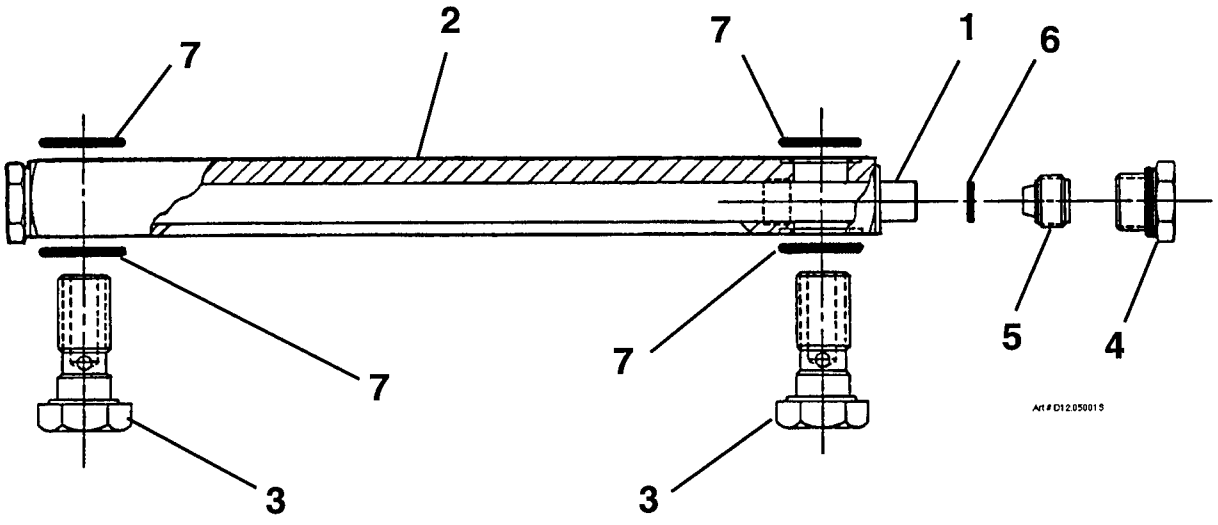

0684/0184

| DESCRIPTION | PART NO. |
| --- | --- |
| SIGHT GAUGE 12" | 10-033500 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | GLASS, SIGHT | 1 |
| 2 | | | BODY, SIGHT GAUGE | 1 |
| 3 | | | BOLT, THRU | 2 |
| 4 | | | PLUG, O-RING (9/16") | 2 |
| 5 | | | CAP, INTERNAL | 2 |
| 6 | | | SEAL, INTERNAL | 2 |
| 7 | | | O-RING | 4 |

| TITLE | SIGHT GAUGE, 14" | |
|---|---|---|
| PLATE NO. D12.05 | **SIMON AERIALS INC.** REV. 05/02/91 | PART NO. 10-033800 |



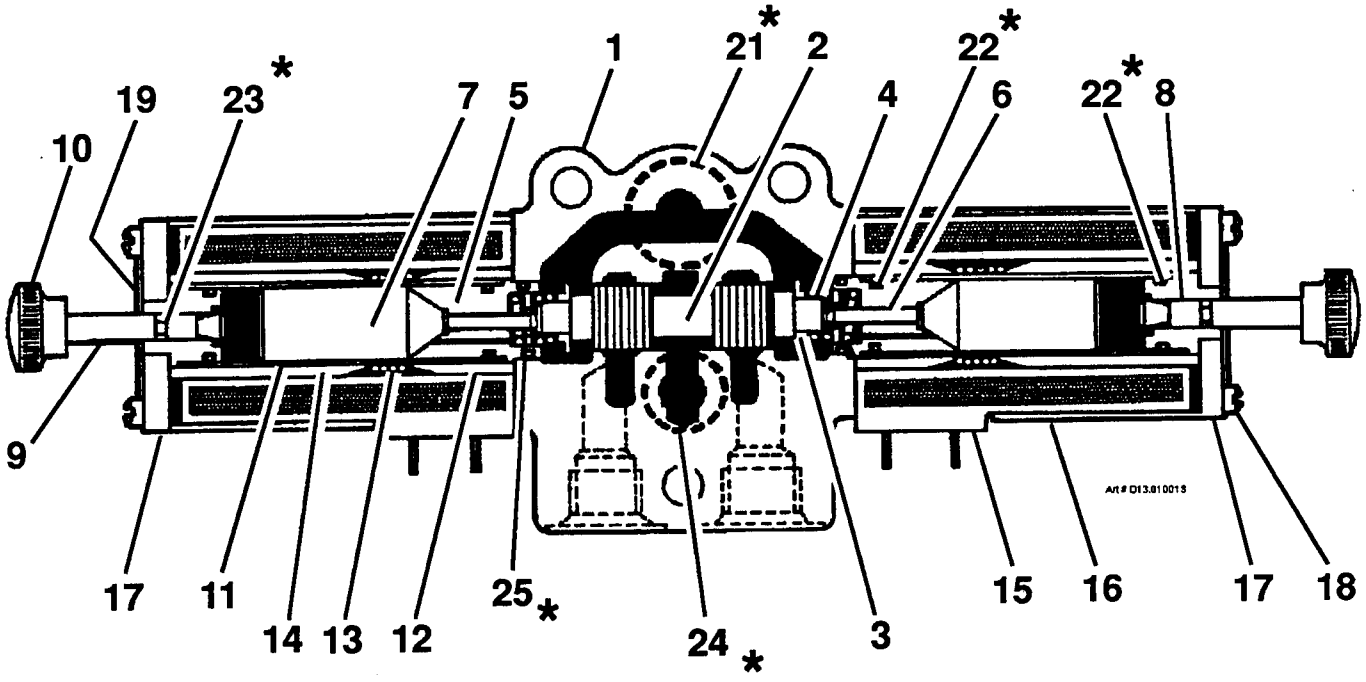

| TITLE | SIGHT GAUGE, 14" | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 05/02/91 | PART NO. 10-033800 | PLATE NO. D12.05 | |

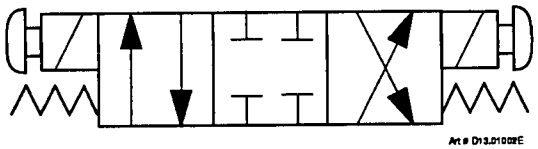
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | BODY, VALVE | 1 |
| 2 | 01-031707 | | SPOOL, VALVE | 1 |
| 3 | 01-031704 | | SEAT, SPRING (Hat washer) | 2 |
| 4 | 01-031714 | | SPRING | 2 |
| 5 | 01-031725 | | CONE, FEMALE | 2 |
| 6 | 01-031719 | | PIN, PUSH | 2 |
| 7 | 01-031721 | | PLUNGER | 2 |
| 8 | 01-031722 | | GUIDE, ACTUATOR PIN | 2 |
| 9 | 01-031706 | | PIN, ACTUATOR | 2 |
| 10 | 01-031705 | | KNOB | 2 |
| 11 | 01-031718 | | TUBE, GUIDE | 2 |
| 12 | 01-031717 | | SLEEVE, FLUX (Inner) | 2 |
| 13 | 01-031715 | | SPRING | 2 |
| 14 | 01-031716 | | SLEEVE, FLUX (Outer) | 2 |
| 15 | 01-031701 | | COIL (12 Volt DC) | 2 |
| | 01-031802 | | COIL (24 Volt DC) | 2 |
| 16 | 01-031713 | | CASE, SOLENOID | 2 |
| 17 | | | PLATE, END | 2 |
| 18 | 01-031724 | | SCREW, FILLISTER HEAD (#10-24 x 3-7/8") | 8 |
| 19 | | | NAMEPLATE | 1 |
| 20 | 01-031712 | | SEAL KIT | 1 |
| | | | **Note:** Items in kit identified by asterisk (*). | |
| 21 | 01-031703 | | RING, QUAD (1-1/16" O.D.) | 1 |
| 22 | 01-031710 | | O-RING | 4 |
| 23 | 01-031709 | | O-RING | 2 |
| 24 | 01-031702 | | RING, QUAD (3/4" O.D.) | 1 |
| 25 | 01-031711 | | O-RING | 2 |

TITLE 4-WAY, 3 POSITION SOLENOID VALVE, CLOSED CENTER SPOOL

PLATE NO. D13.01 | **SIMON AERIALS INC.** REV. 05/29/91 | PART NO. 01-031700



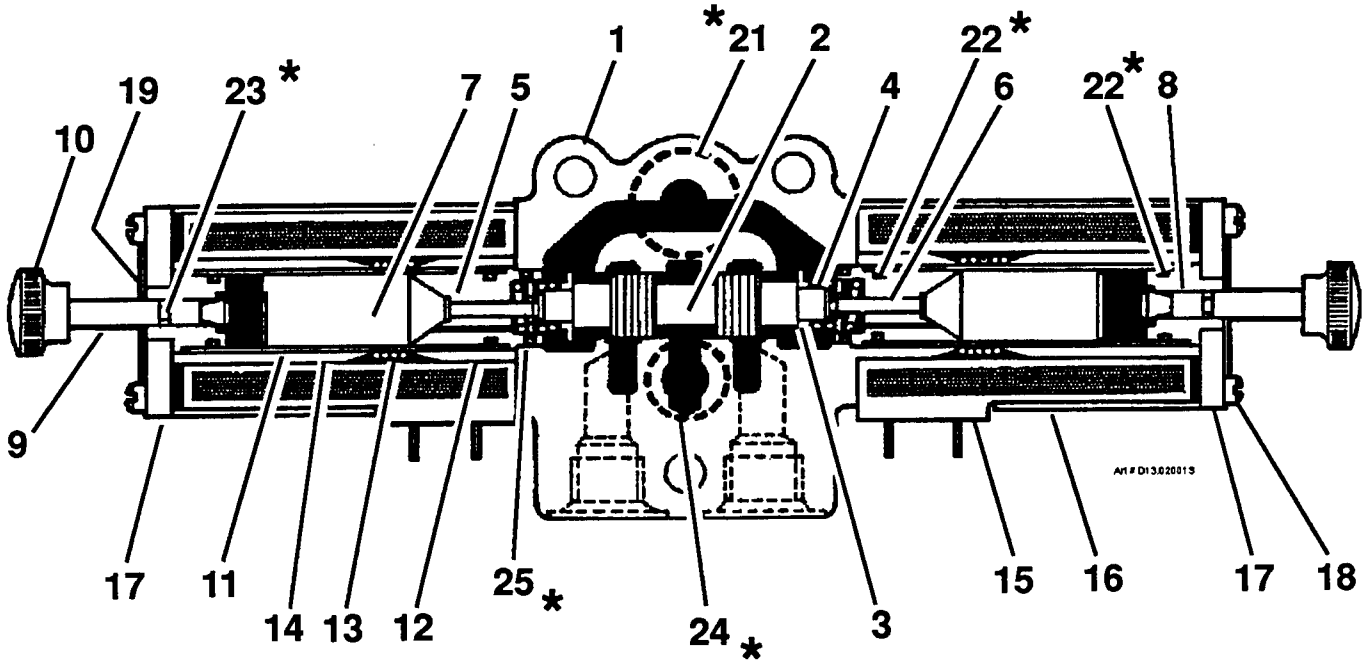

| | | | |
|---|---|---|---|
| TITLE | 4-WAY, 3 POSITION SOLENOID VALVE, CLOSED CENTER SPOOL | | |
| **SIMON AERIALS INC.** | REV. 05/29/91 | PART NO. 01-031700 | PLATE NO. D13.01 |

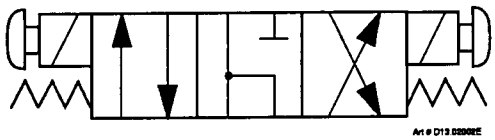
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | BODY, VALVE | 1 |
| 2 | 01-031801 | | SPOOL, VALVE | 1 |
| 3 | 01-031704 | | SEAT, SPRING (Hat washer) | 2 |
| 4 | 01-031714 | | SPRING | 2 |
| 5 | 01-031725 | | CONE, FEMALE | 2 |
| 6 | 01-031719 | | PIN, PUSH | 2 |
| 7 | 01-031721 | | PLUNGER | 2 |
| 8 | 01-031722 | | GUIDE, ACTUATOR PIN | 2 |
| 9 | 01-031706 | | PIN, ACTUATOR | 2 |
| 10 | 01-031705 | | KNOB | 2 |
| 11 | 01-031718 | | TUBE, GUIDE | 2 |
| 12 | 01-031717 | | SLEEVE, FLUX (Inner) | 2 |
| 13 | 01-031715 | | SPRING | 2 |
| 14 | 01-031716 | | SLEEVE, FLUX (Outer) | 2 |
| 15 | 01-031701 | | COIL (12 Volt DC) | 2 |
| | 01-031802 | | COIL (24 Volt DC) | 2 |
| 16 | 01-031713 | | CASE, SOLENOID | 2 |
| 17 | | | PLATE, END | 2 |
| 18 | 01-031724 | | SCREW, FILLISTER HEAD (#10-24 x 3-7/8") | 8 |
| 19 | | | NAMEPLATE | 1 |
| 20 | 01-031712 | | SEAL KIT | 1 |
| | | | **Note:** Items in kit identified by asterisk (*). | |
| 21 | 01-031703 | | RING, QUAD (1-1/16" O.D.) | 1 |
| 22 | 01-031710 | | O-RING | 4 |
| 23 | 01-031709 | | O-RING | 2 |
| 24 | 01-031702 | | RING, QUAD (3/4" O.D.) | 1 |
| 25 | 01-031711 | | O-RING | 2 |

TITLE 4-WAY, 3 POSITION SOLENOID VALVE, OPEN CENTER (MOTORING) SPOOL

PLATE NO. D13.02 | **SIMON AERIALS INC.** REV. 05/29/91 | PART NO. 01-031800



TITLE 4-WAY, 3 POSITION SOLENOID VALVE, OPEN CENTER (MOTORING) SPOOL

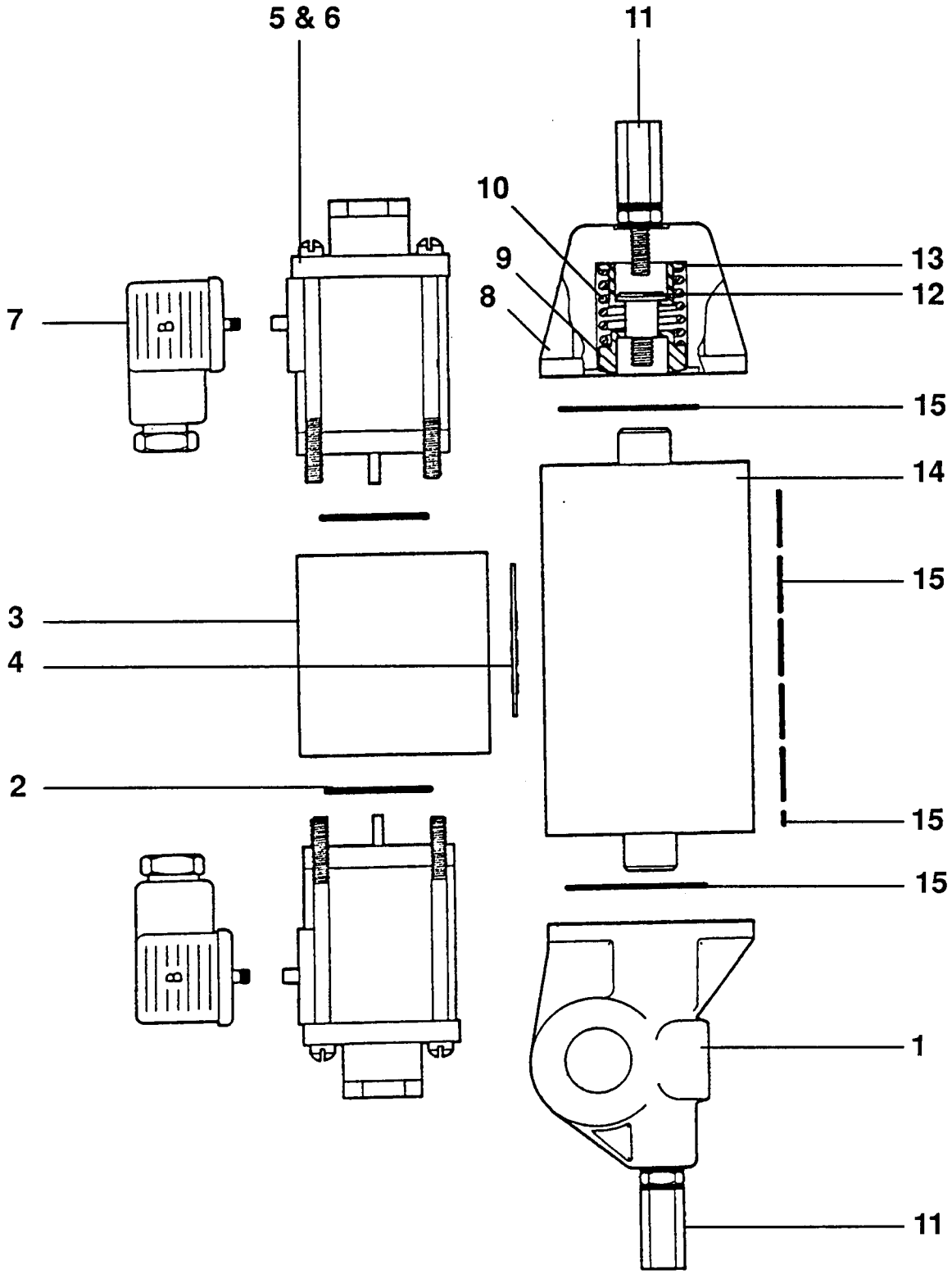
| SIMON AERIALS INC. REV. 05/29/91 | PART NO. 01-031800 | PLATE NO. D13.02 |
|---|---|---|

# PARTS LIST

| ITEM | PART NUMBER | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | LEVER CAP ASSEMBLY | 1 |
| 2 | | | O-RING | 2 |
| 3 | 01-040305 | | PILOT VALVE ASSEMBLY | 1 |
| 4 | | | SEAL PLATE | 1 |
| 5 | 01-040306 | | SOLENOID ASSEMBLY | 2 |
| 6 | 01-040307 | | COIL | 2 |
| 7 | 03-043000 | | CONNECTOR | 2 |
| 8 | | | SPRING CAP ASSEMBLY | 1 |
| 9 | | | SPRING CUP | 1 |
| 10 | | | SPRING | 1 |
| 11 | | | STROKE CONTROL ASSEMBLY | 1 |
| 12 | | | SHOULDER SCREW | 1 |
| 13 | | | SPRING CUP | 1 |
| 14 | | | 4-WAY VALVE ASSEMBLY | 1 |
| 15 | 01-040312 | | VALVE SEAL KIT | 1 |
| 16 | | | COMPLETE VALVE (INCLUDES ALL ABOVE ITEMS) | |
| | 01-040301 | | DRIVE | |
| | 01-040302 | | EXTEND | |
| | 01-040303 | | HOIST | |
| | 01-040304 | | SWING | |

**DESCRIPTION** 4-WAY VALVE ASSEMBLY

**PART NO.** 01-040301 THRU 01-040304

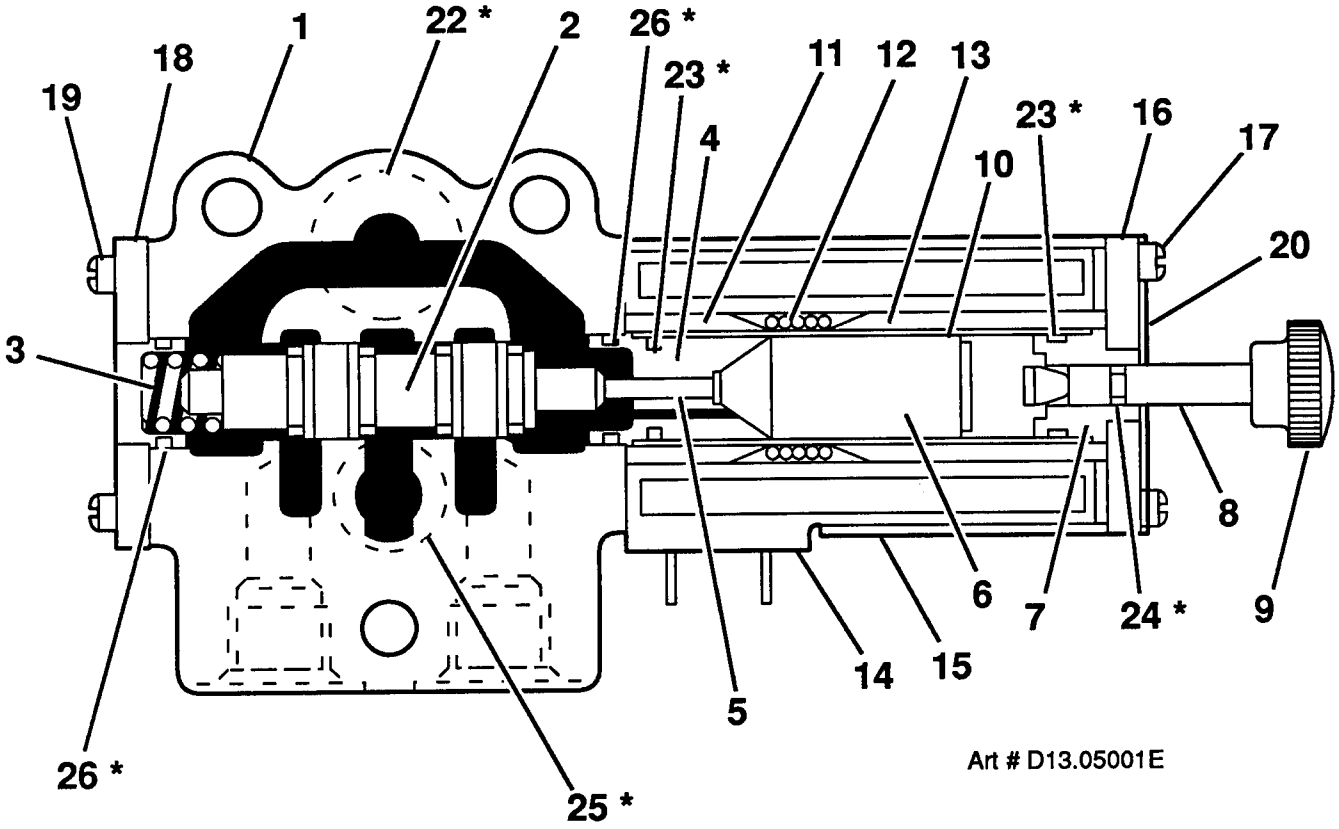



| DESCRIPTION | 4-WAY VALVE ASSEMBLY | PART NO. 01-040301 THRU 01-040304 |
|---|---|---|

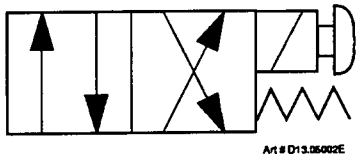
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | BODY, VALVE | 1 |
| 2 | | | SPOOL, VALVE | 1 |
| 3 | 01-031714 | | SPRING | 1 |
| 4 | 01-031725 | | CONE, FEMALE | 1 |
| 5 | 01-031719 | | PIN, PUSH | 1 |
| 6 | 01-031721 | | PLUNGER | 1 |
| 7 | 01-031722 | | GUIDE, ACTUATOR PIN | 1 |
| 8 | 01-031706 | | PIN, ACTUATOR | 1 |
| 9 | 01-031705 | | KNOB | 1 |
| 10 | 01-031718 | | TUBE, GUIDE | 1 |
| 11 | 01-031717 | | SLEEVE, FLUX (Inner) | 1 |
| 12 | 01-031715 | | SPRING | 1 |
| 13 | 01-031716 | | SLEEVE, FLUX (Outer) | 1 |
| 14 | 01-031701 | | COIL (12 Volt DC) | 1 |
| | 01-031802 | | COIL (24 Volt DC) | 1 |
| 15 | 01-031713 | | CASE, SOLENOID | 1 |
| 16 | | | PLATE, END | 1 |
| 17 | 01-031724 | | SCREW, FILLISTER HEAD (#10-24 x 3-7/8") | 4 |
| 18 | | | PLATE, END | 1 |
| 19 | | | SCREW, FILLISTER HEAD (#10-24 x 5/8") | 4 |
| 20 | | | NAMEPLATE | 1 |
| 21 | 01-031712 | | SEAL KIT | 1 |
| | | | **Note:** Items in kit identified by asterisk (*). | |
| 22 | 01-031703 | | RING, QUAD (1-1/16" O.D.) | 1 |
| 23 | 01-031710 | | O-RING (only two required this application) | 4 |
| 24 | 01-031709 | | O-RING (only one required this application) | 2 |
| 25 | 01-031702 | | RING, QUAD (3/4" O.D.) | 1 |
| 26 | 01-031711 | | O-RING (only one required this application) | 2 |

| | | | | |
|---|---|---|---|---|
| TITLE | 4-WAY, 2 POSITION SOLENOID VALVE | | | |
| PLATE NO. D13.05 | **SIMON AERIALS INC.** | REV. 06/24/91 | PART NO. | 01-061900 |




Art # D13.05001E



Art # D13.05002E

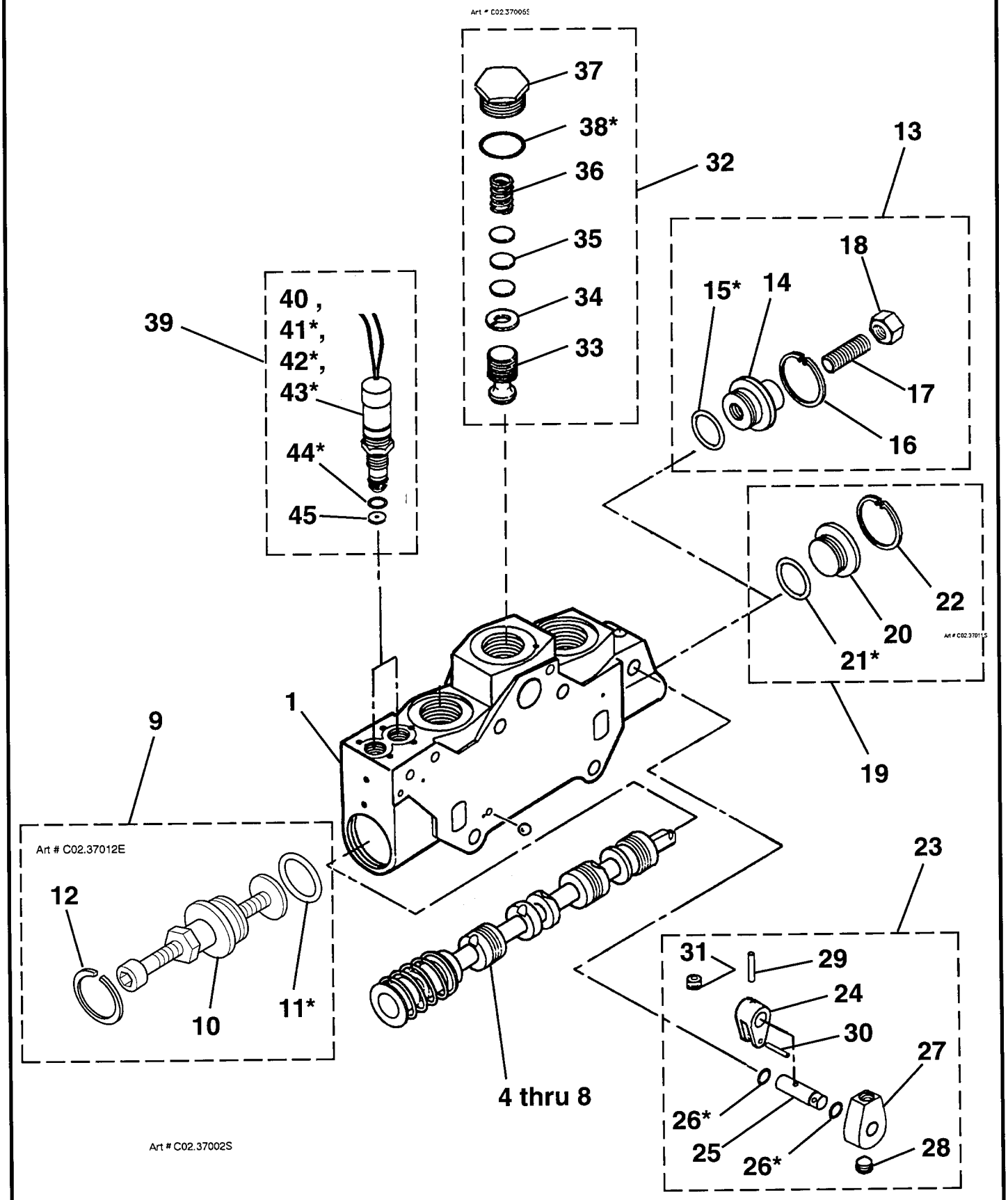
| TITLE | 4-WAY, 2 POSITION SOLENOID VALVE | | |
|---|---|---|---|
| **SIMON AERIALS INC.** NEW 06/24/91 | PART NO. 01-061900 | PLATE NO. D13.05 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | DRIVE VALVE SECTION | 1 |
| | 01-234500 | | for Model RP 46 | |
| | Call Simon | | for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate. | |
| 1 | | | HOUSING, DRIVE VALVE SECTION | 1 |
| 2 | | | SEAL KIT, WORK SEGMENT (incl. all items with asterisk*) | 1 |
| | 01-211026 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 3 | | * | BALL (for housing cross port) | 1 |
| 4 | | | SPOOL KIT, DRIVE VALVE | 1 |
| | Call Simon | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 5 | | | SPOOL, MAIN | 1 |
| 6 | | | GUIDE, SPRING | 2 |
| 7 | | | SPRING, CENTERING | 1 |
| 8 | | | RING, RETAINING | 1 |
| 9 | | | CENTERING PLUG KIT | 1 |
| | 01-216401 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 10 | | | PLUG, CENTERING | 1 |
| 11 | | * | "O"-RING | 1 |
| 12 | | | RING, RETAINING | 1 |
| 13 | | | FLOW LIMITER KIT | |
| | | | (Found on some units. Optional with End plug, Item 19) | 1 |
| | 01-211023 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 14 | | | PLUG, ADJUSTMENT | 1 |
| 15 | | * | "O"-RING | 1 |
| 16 | | | RING, RETAINING | 1 |
| 17 | | | SET SCREW | 1 |
| 18 | | | NUT, SEAL | 1 |
| 19 | | | PLUG KIT, END | |
| | | | (Found on some units. Optional with Flow limiter, Item 13) | 1 |
| | 01-211022 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 20 | | | PLUG | 1 |
| 21 | | * | "O"-RING | 1 |
| 22 | | | RING, RETAINING | 1 |

TITLE DRIVE CONTROL VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2)

| PLATE NO. D13.06 | **SIMON AERIALS INC.** REV. 16 FEB., 1996 | PART NO. |
|---|---|---|




TITLE DRIVE CONTROL VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2)

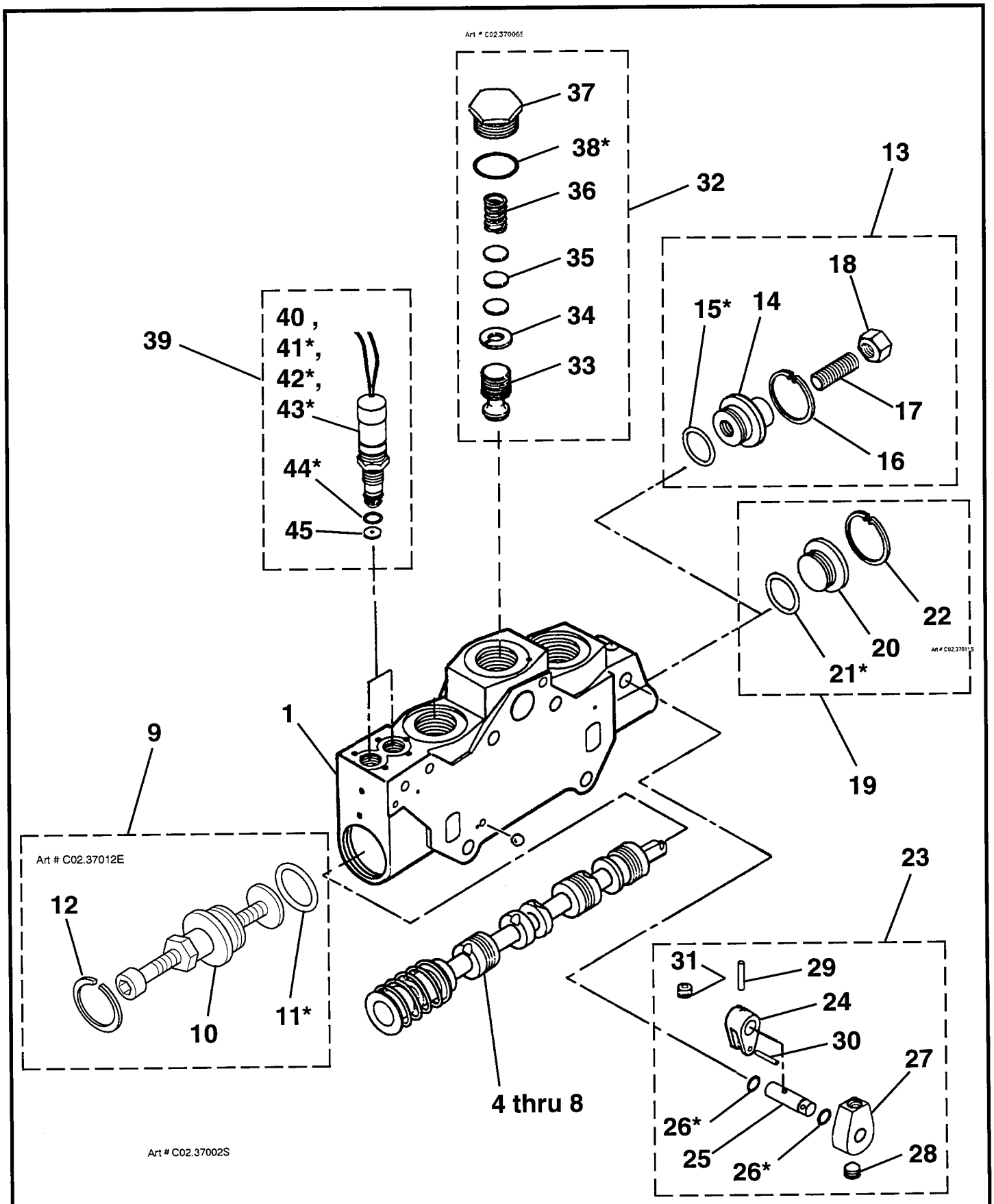
| SIMON AERIALS INC. | REV. 16 FEB., 1996 | PART NO. | PLATE NO. D13.06 |
|---|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 23 | | | MANUAL OPERATOR KIT | 1 |
| | 01-211025 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 24 | | | CLEVIS (has hole for .189" [4.8 mm] pin) | 1 |
| 25 | | | SHAFT (has hole for .189" [4.8 mm] pin) | 1 |
| 26 | | * | "O"-RING | 2 |
| 27 | | | ADAPTER, HANDLE | 1 |
| 28 | | | SET SCREW | 1 |
| 29 | | | PIN, STRAIGHT (.189" [4.8 mm] dia.) | 1 |
| 30 | | | PIN, DOWEL | 1 |
| 31 | | | PLUG | 1 |
| 32 | | | PRESSURE COMPENSATOR KIT | 1 |
| | 01-211024 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 33 | | | SPOOL, COMPENSATOR | 1 |
| 34 | | | RING, RETAINING | 1 |
| 35 | | | SHIM (various thicknesses) | 8 |
| 36 | | | SPRING, COMPENSATOR | 1 |
| 37 | | | PLUG | 1 |
| 38 | | * | "O"-RING | 1 |
| 39 | | | SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector) | 1 |
| | 01-211001 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 40 | | | SOLENOID, PULSAR (12 Volt) | 1 |
| 41 | | * | "O"-RING | 1 |
| 42 | | * | SCREEN, SOLENOID FILTER | 1 |
| 43 | | * | "O"-RING (special) | 2 |
| 44 | | * | "O"-RING | 2 |
| 45 | | | PLATE, ORIFICE | 1 |

TITLE DRIVE CONTROL VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2)

PLATE NO. D13.06 | **SIMON AERIALS INC.** REV. 16 FEB., 1996 | PART NO.




TITLE DRIVE CONTROL VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2)

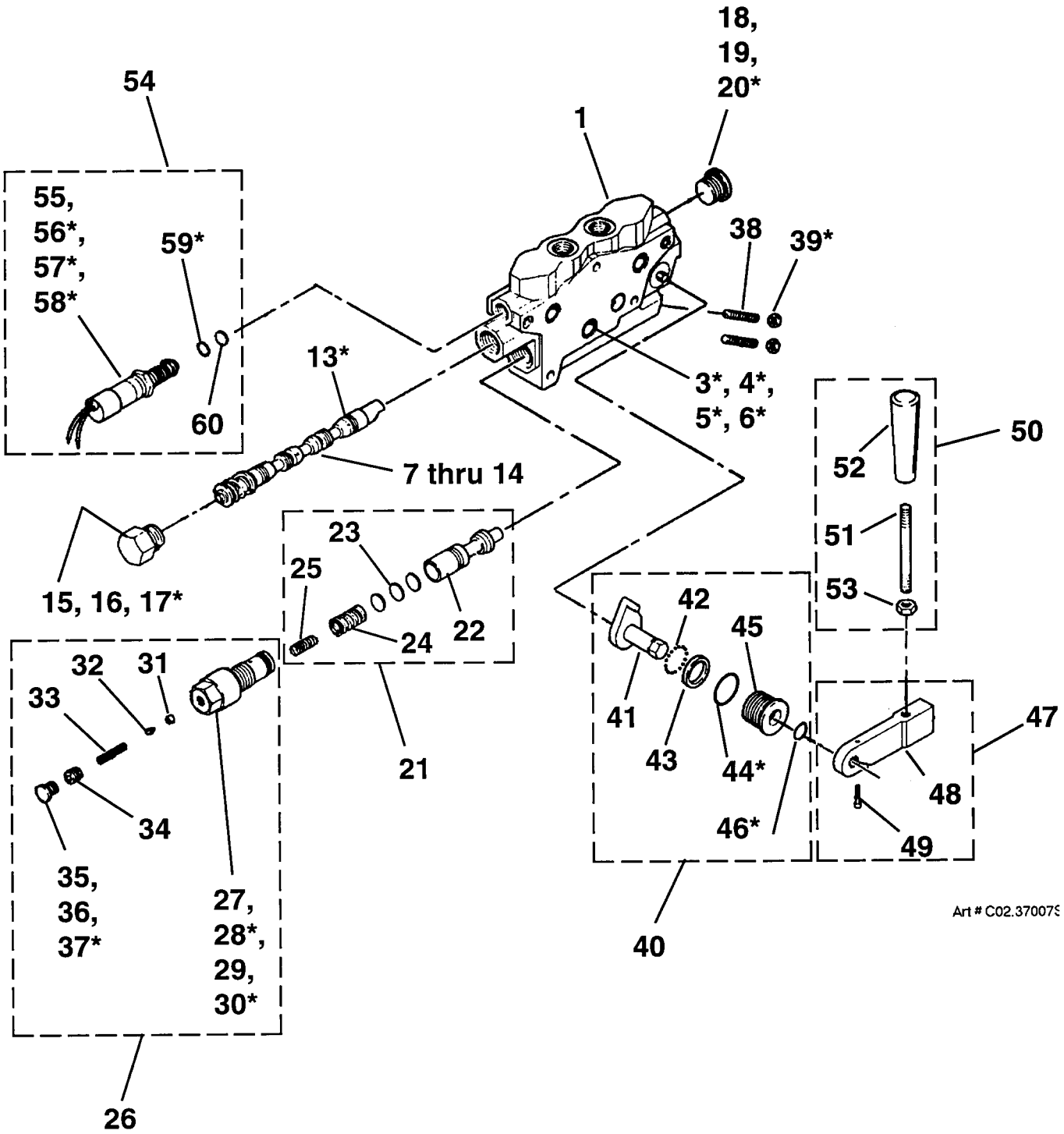
| SIMON AERIALS INC. | REV. 16 FEB., 1996 | PART NO. | PLATE NO. D13.06 |
|---|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | TELESCOPE VALVE SECTION | 1 |
| | 01-231204 | | for Model RP 66 | |
| | Call Simon | | for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate. | |
| 1 | | | HOUSING, TELESCOPE VALVE SECTION | 1 |
| 2 | | | SEAL KIT, WORK SEGMENT | 1 |
| | 01-211004 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| | | | SEAL KIT, WORK SEGMENT . . . includes; | |
| 3 | | | BALL (for housing cross port) | 1 |
| 4 | | | "O"-RING (for housing cross port) | 1 |
| 5 | | | "O"-RING (for housing cross port) | 2 |
| 6 | | | "O"-RING (for housing cross port) | 3 |
| | | | plus all items below marked with an asterisk (*) | |
| 7 | Call Simon | | SPOOL KIT, TELESCOPE VALVE | 1 |
| | | | Please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate. | |
| 8 | | | SPOOL | 1 |
| 9 | | | RING, RETAINING | 1 |
| 10 | | | GUIDE, SPRING | 2 |
| 11 | | | SPRING, CENTERING | 1 |
| 12 | | | SHIM | 1 |
| 13 | | * | "O"-RING | 1 |
| 14 | | | HOOK, OVERRIDE | 1 |
| 15 | | | PLUG, HEX | 1 |
| | 01-211013 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 16 | | | PLUG | 1 |
| 17 | | * | "O"-RING | 1 |
| 18 | | | PLUG, SOCKET | 1 |
| | 01-211009 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 19 | | | PLUG | 1 |
| 20 | | * | "O"-RING | 1 |

**TITLE** TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| D13.07 | **SIMON AERIALS INC.** | REV. 26 JUL., 1994 | |




TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

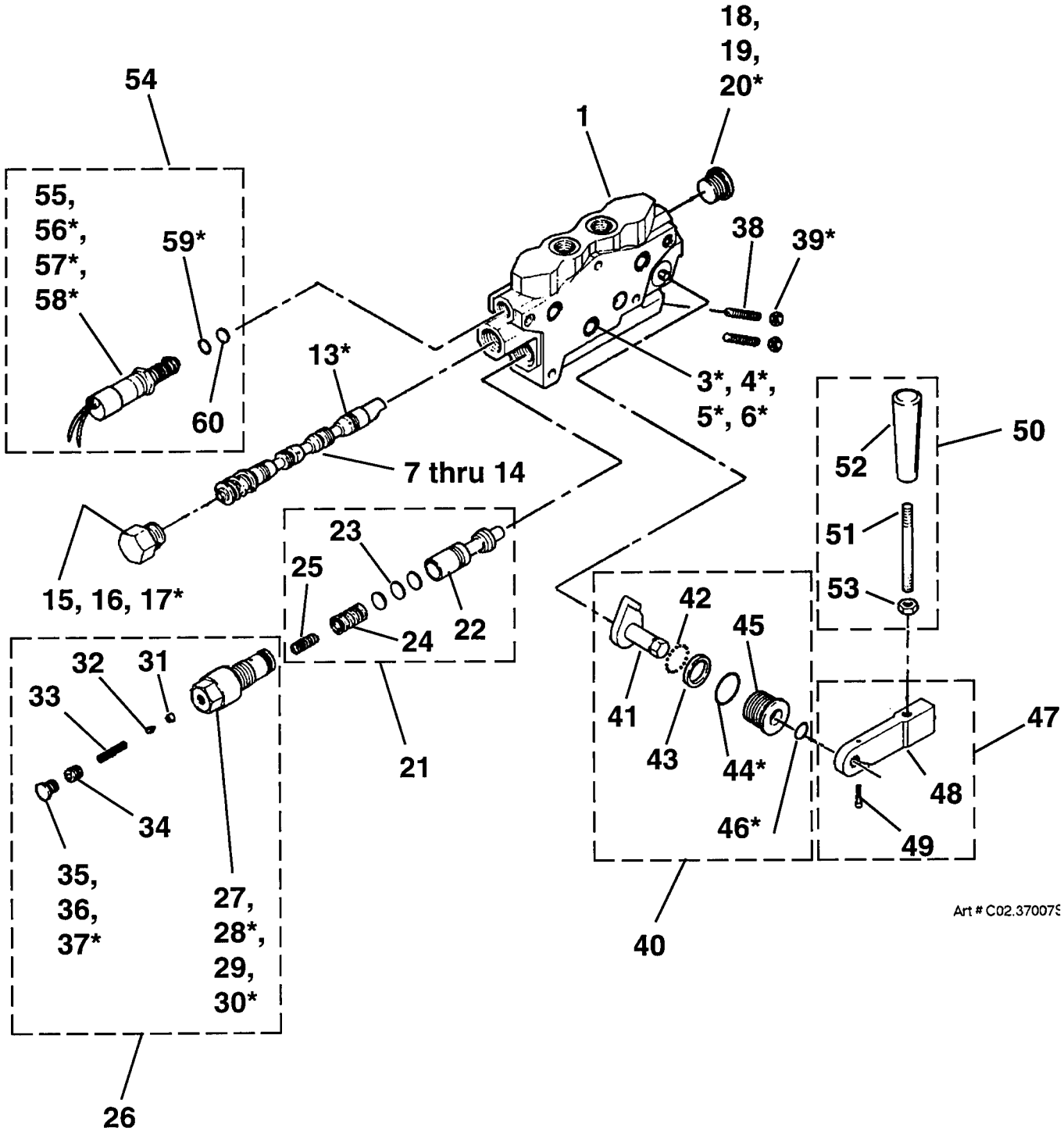
| SIMON AERIALS INC. REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.07 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 21 | | | SPOOL KIT, COMPENSATOR | 1 |
| | Call Simon | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 22 | | | SPOOL, COMPENSATOR | 1 |
| 23 | | | SHIM (.025" [.635 mm]) | 3 |
| | | | SHIM (.008" [.203 mm]) | 3 |
| | | | SHIM (.003" [.076 mm]) | 3 |
| 24 | | | SPRING, COMPENSATOR (outer) | 1 |
| 25 | | | SPRING, COMPENSATOR (inner, | |
| | | | needed for 10 Gal [37.8 Liters]/ Min flow or greater) | 1 |
| 26 | | | CARTRIDGE KIT, PRESSURE LIMITER | 1 |
| | 01-211016 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 27 | | | PLUG, RELIEF | 1 |
| 28 | | * | "O"-RING | 1 |
| 29 | | | RING, BACKUP | 1 |
| 30 | | * | "O"-RING | 1 |
| 31 | | | SEAT | 1 |
| 32 | | | POPPET, RELIEF | 1 |
| 33 | | | SPRING, RELIEF | 1 |
| 34 | | | SCREW, ADJUSTMENT | 1 |
| 35 | | | PLUG, HEX | 1 |
| 36 | | | PLUG | 1 |
| 37 | | * | "O"-RING | 1 |
| 38 | | | SET SCREW | 2 |
| | 01-211010 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 39 | | * | NUT, SEAL | 2 |
| | 01-211011 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 40 | | | HANDLE SHAFT KIT | 1 |
| | 01-211008 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 41 | | | LINK, SHAFT | 1 |
| 42 | | | BALL (Steel) | 17 |
| 43 | | | RETAINER, BEARING | 1 |
| 44 | | * | "O"-RING | 1 |
| 45 | | | PLUG, OVERRIDE | 1 |
| 46 | | * | "O"-RING | 1 |

TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| D13.07 | **SIMON AERIALS INC.** | REV. 26 JUL., 1994 | |




TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

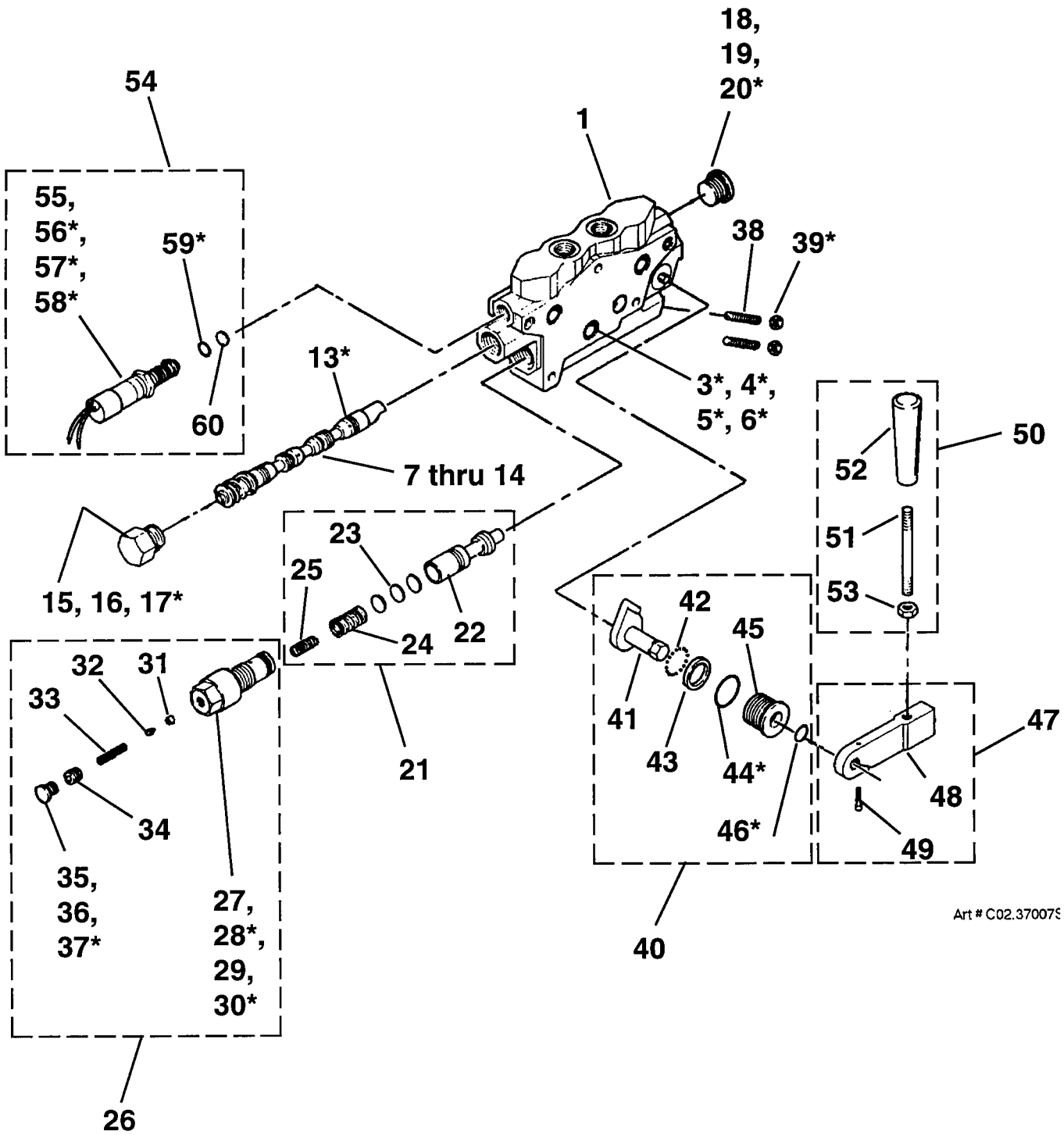
| SIMON AERIALS INC. REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.07 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 47 | | | OPERATOR LINKAGE KIT (fixed) | 1 |
| | 01-211014 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 48 | | | ADAPTER, HANDLE | 1 |
| 49 | | | CAP SCREW | 1 |
| 50 | | | HANDLE KIT | 1 |
| | 01-211003 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 51 | | | ROD, HANDLE | 1 |
| 52 | | | KNOB | 1 |
| 53 | | | NUT, JAM | 1 |
| 54 | | | SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector) | 1 |
| | 01-211001 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 55 | | | SOLENOID, PULSAR (12 Volt) | 1 |
| 56 | | * | "O"-RING | 1 |
| 57 | | * | SCREEN, SOLENOID FILTER | 1 |
| 58 | | * | "O"-RING (special) | 2 |
| 59 | | * | "O"-RING | 2 |
| 60 | | | PLATE, ORIFICE | 1 |

TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

| PLATE NO. D13.07 | **SIMON AERIALS INC.** REV. 26 JUL., 1994 | PART NO. |
|---|---|---|




TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

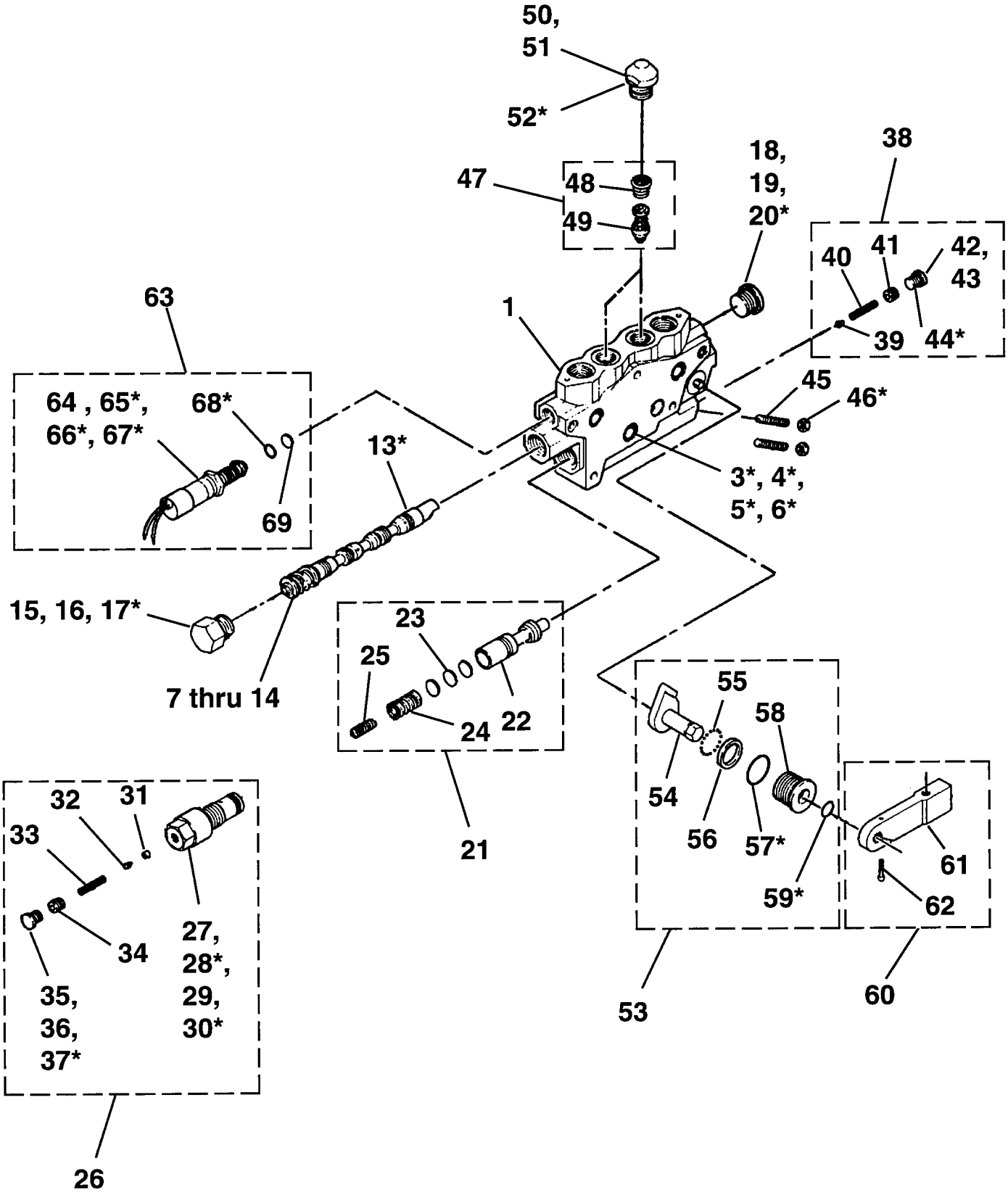
| SIMON AERIALS INC. REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.07 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | **NOTE:** When ordering valve sections or components, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate. | |
| | | | STEER VALVE SECTION | 1 |
| | Call Simon | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 1 | | | HOUSING, STEER VALVE SECTION | 1 |
| 2 | | | SEAL KIT, WORK SEGMENT | 1 |
| | 01-211004 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| | | | SEAL KIT, WORK SEGMENT . . . includes; | |
| 3 | | | BALL (for housing cross port) | 1 |
| 4 | | | "O"-RING (for housing cross port) | 1 |
| 5 | | | "O"-RING (for housing cross port) | 2 |
| 6 | | | "O"-RING (for housing cross port) | 3 |
| | | | plus all items below marked with an asterisk (*) | |
| 7 | | | SPOOL KIT, STEER VALVE | 1 |
| | Call Simon | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 8 | | | SPOOL | 1 |
| 9 | | | RING, RETAINING | 1 |
| 10 | | | GUIDE, SPRING | 2 |
| 11 | | | SPRING, CENTERING | 1 |
| 12 | | | SHIM | 1 |
| 13 | | * | "O"-RING | 1 |
| 14 | | | HOOK, OVERRIDE | 1 |
| 15 | | | PLUG, HEX | 1 |
| | 01-211013 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 16 | | | PLUG | 1 |
| 17 | | * | "O"-RING | 1 |
| 18 | | | PLUG, SOCKET | 1 |
| | Call Simon | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 19 | | | PLUG | 1 |
| 20 | | * | "O"-RING | 1 |

TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

PLATE NO. D13.08 | **SIMON AERIALS INC.** REV. 26 JUL., 1994 | PART NO.




TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

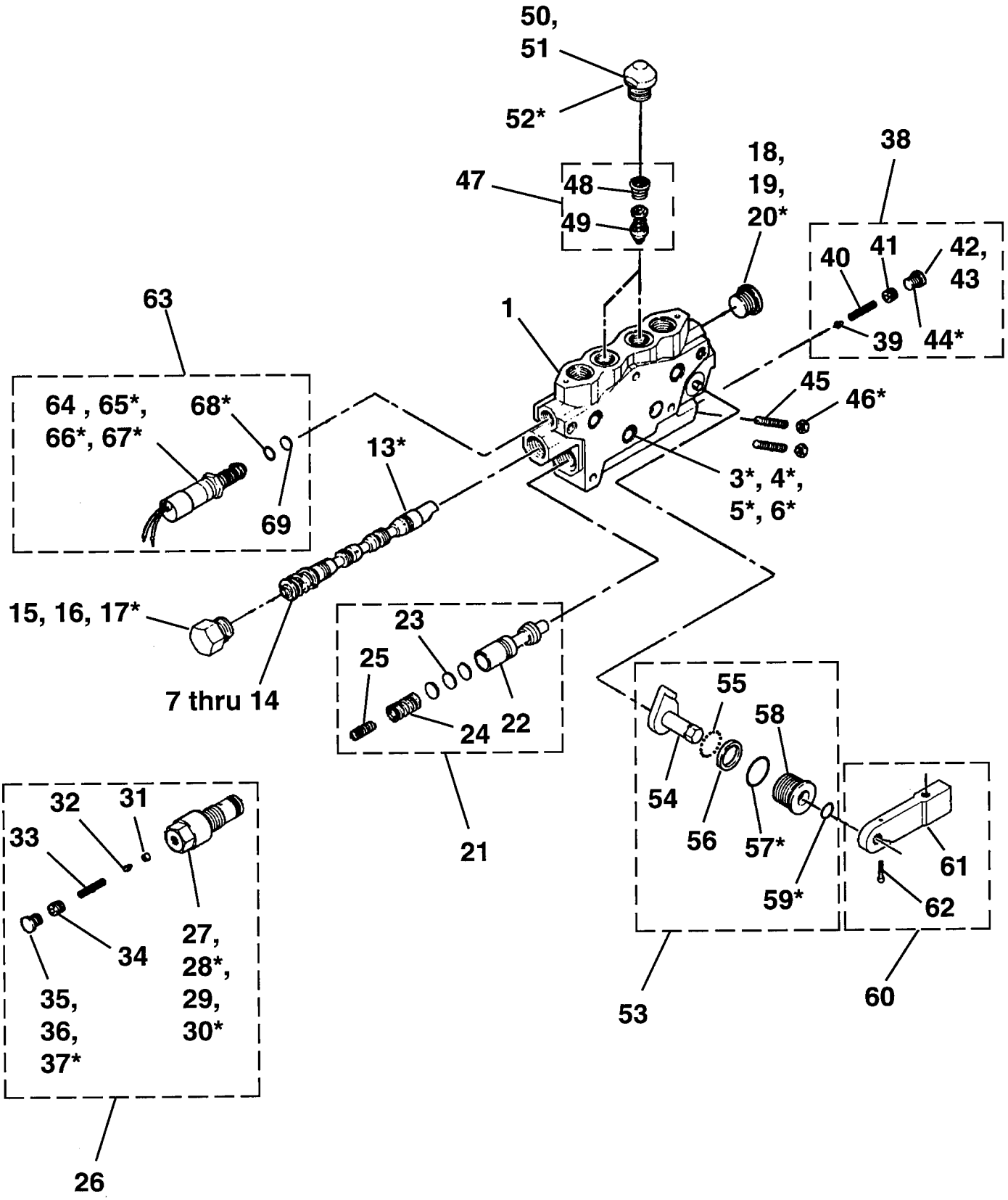
| SIMON AERIALS INC. REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.08 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 21 | | | SPOOL KIT, COMPENSATOR | 1 |
| | 01-211012 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 22 | | | SPOOL, COMPENSATOR | 1 |
| 23 | | | SHIM (.025" [.635 mm]) | 3 |
| | | | SHIM (.008" [.203 mm]) | 3 |
| | | | SHIM (.003" [.076 mm]) | 3 |
| 24 | | | SPRING, COMPENSATOR (outer) | 1 |
| 25 | | | SPRING, COMPENSATOR (inner, | |
| | | | needed for 10 Gal [37.8 Liters]/ Min flow or greater) | 1 |
| 26 | | | CARTRIDGE KIT, PRESSURE LIMITER | 1 |
| | 01-211006 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 27 | | | PLUG, RELIEF | 1 |
| 28 | | * | "O"-RING | 1 |
| 29 | | | RING, BACKUP | 1 |
| 30 | | * | "O"-RING | 1 |
| 31 | | | SEAT | 1 |
| 32 | | | POPPET, RELIEF | 1 |
| 33 | | | SPRING, RELIEF | 1 |
| 34 | | | SCREW, ADJUSTMENT | 1 |
| 35 | | | PLUG, HEX | 1 |
| 36 | | | PLUG | 1 |
| 37 | | * | "O"-RING | 1 |
| 38 | | | PRESSURE LIMITER KIT | 1 |
| | 01-211005 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 39 | | | POPPET, PRESSURE LIMITER | 1 |
| 40 | | | SPRING, PRESSURE LIMITER | 1 |
| 41 | | | SCREW, ADJUSTMENT | 1 |
| 42 | | | PLUG, SOCKET HEAD | 1 |
| 43 | | | PLUG | 1 |
| 44 | | * | "O"-RING | 1 |
| 45 | | | SET SCREW | 2 |
| | 01-211010 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 46 | | * | NUT, SEAL | 2 |
| | 01-211011 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |

TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| D13.08 | **SIMON AERIALS INC.** | REV. 26 JUL., 1994 | |




TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

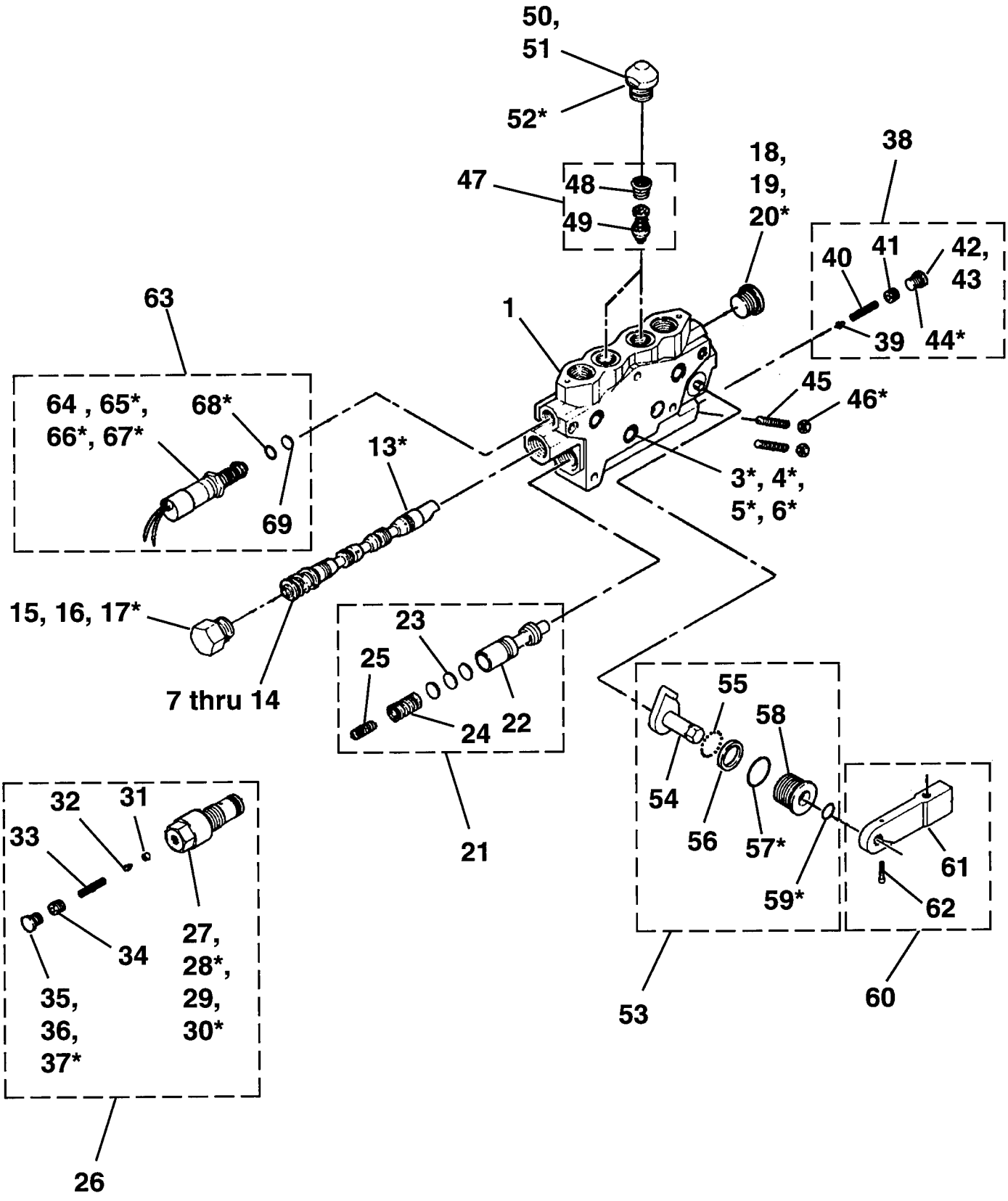
| SIMON AERIALS INC. REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.08 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 47 | | | RELIEF KIT (with anti-cavitation valve) | 2 |
| | 01-211007 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 48 | | | CARTRIDGE ASSEMBLY | 1 |
| 49 | | | SPRING | 1 |
| 50 | | | PLUG, WORK PORT | 1 |
| | Call Simon | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 51 | | | PLUG | 1 |
| 52 | | * | "O"-RING | 1 |
| 53 | | | HANDLE SHAFT KIT | 1 |
| | 01-211008 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 54 | | | LINK, SHAFT | 1 |
| 55 | | | BALL (Steel) | 17 |
| 56 | | | RETAINER, BEARING | 1 |
| 57 | | * | "O"-RING | 1 |
| 58 | | | PLUG, OVERRIDE | 1 |
| 59 | | * | "O"-RING | 1 |
| 60 | | | OPERATOR LINKAGE KIT (fixed) | 1 |
| | 01-211014 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 61 | | | ADAPTER, HANDLE | 1 |
| 62 | | | CAP SCREW | 1 |
| 63 | | | SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector) | 1 |
| | 01-211001 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 64 | | | SOLENOID, PULSAR (12 Volt) | 1 |
| 65 | | * | "O"-RING | 1 |
| 66 | | * | SCREEN, SOLENOID FILTER | 1 |
| 67 | | * | "O"-RING (special) | 2 |
| 68 | | * | "O"-RING | 2 |
| 69 | | | PLATE, ORIFICE | 1 |

TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

PLATE NO. D13.08 | **SIMON AERIALS INC.** REV. 26 JUL., 1994 | PART NO.




TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

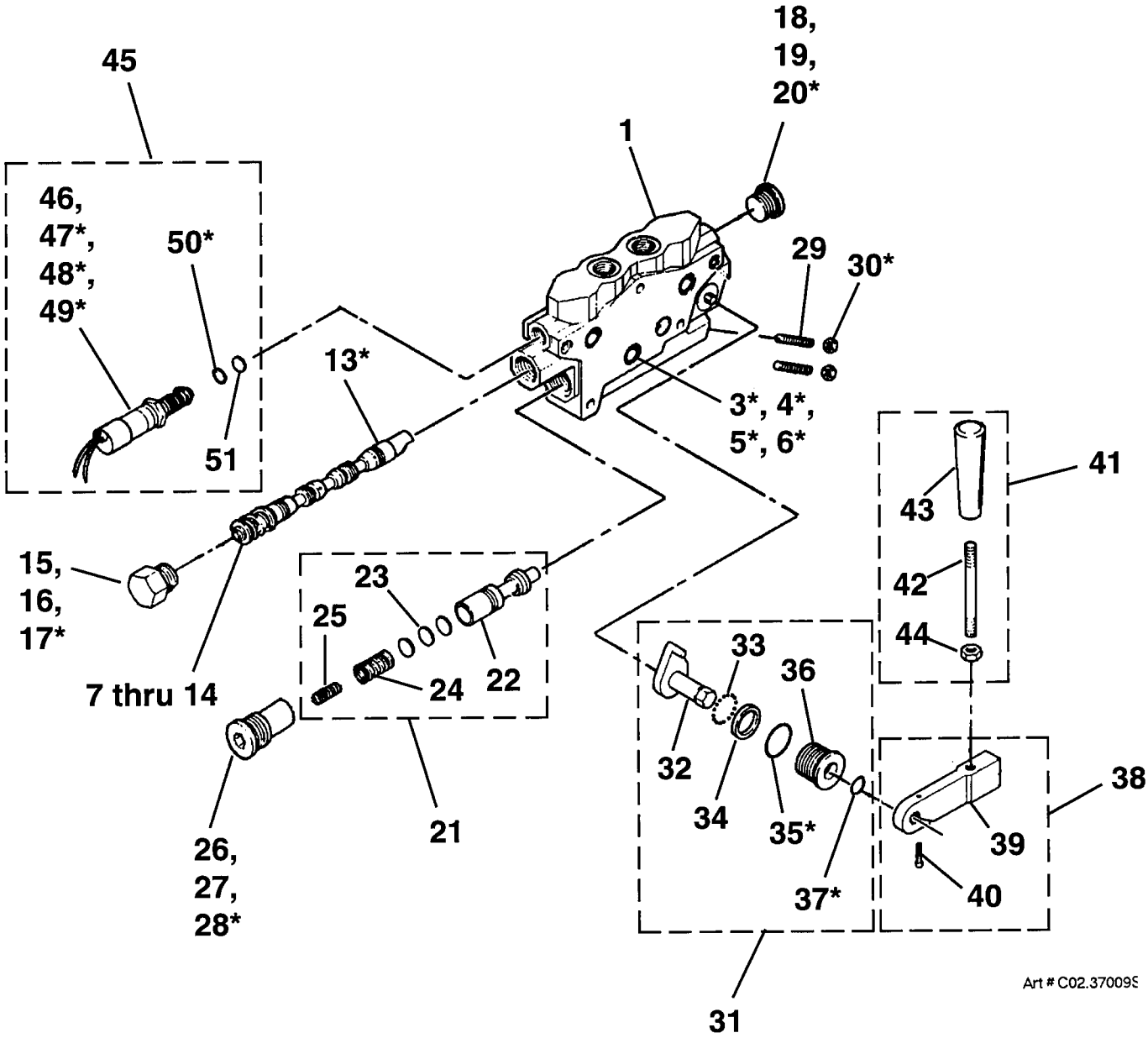
| SIMON AERIALS INC. REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.08 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | BOOM RAISE/ LOWER VALVE SECTION | 1 |
| | 01-231205 | | for Model RP 66 **main** boom | |
| | 01-231203 | | for Model RP 66 **jib** boom | |
| | Call Simon | | for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate. | |
| 1 | | | HOUSING, BOOM RAISE/ LOWER VALVE SECTION | 1 |
| 2 | | | SEAL KIT, WORK SEGMENT . . . includes; | 1 |
| | 01-211004 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 3 | | | BALL (for housing cross port) | 1 |
| 4 | | | "O"-RING (for housing cross port) | 1 |
| 5 | | | "O"-RING (for housing cross port) | 2 |
| 6 | | | "O"-RING (for housing cross port) | 3 |
| | | | plus all items below marked with an asterisk (*) | |
| 7 | | | SPOOL KIT, BOOM RAISE/ LOWER VALVE | 1 |
| | 01-210901 | | For Model MP 95 or MP 110 (6.5 Gal/ Min [24.6 Liter/ Min]) | 1 |
| | Call Simon | | For all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate. If for **RP** Series, also specify if for **main** or **jib** boom. | |
| 8 | | | SPOOL | 1 |
| 9 | | | RING, RETAINING | 1 |
| 10 | | | GUIDE, SPRING | 2 |
| 11 | | | SPRING, CENTERING | 1 |
| 12 | | | SHIM | 1 |
| 13 | | * | "O"-RING | 1 |
| 14 | | | HOOK, OVERRIDE | 1 |
| 15 | | | PLUG, HEX | 1 |
| | 01-211013 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 16 | | | PLUG | 1 |
| 17 | | * | "O"-RING | 1 |
| 18 | | | PLUG, SOCKET | 1 |
| | 01-211009 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 19 | | | PLUG | 1 |
| 20 | | * | "O"-RING | 1 |

TITLE BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

PLATE NO. D13.09 | **SIMON AERIALS INC.** REV. 26 JUL., 1994 | PART NO.



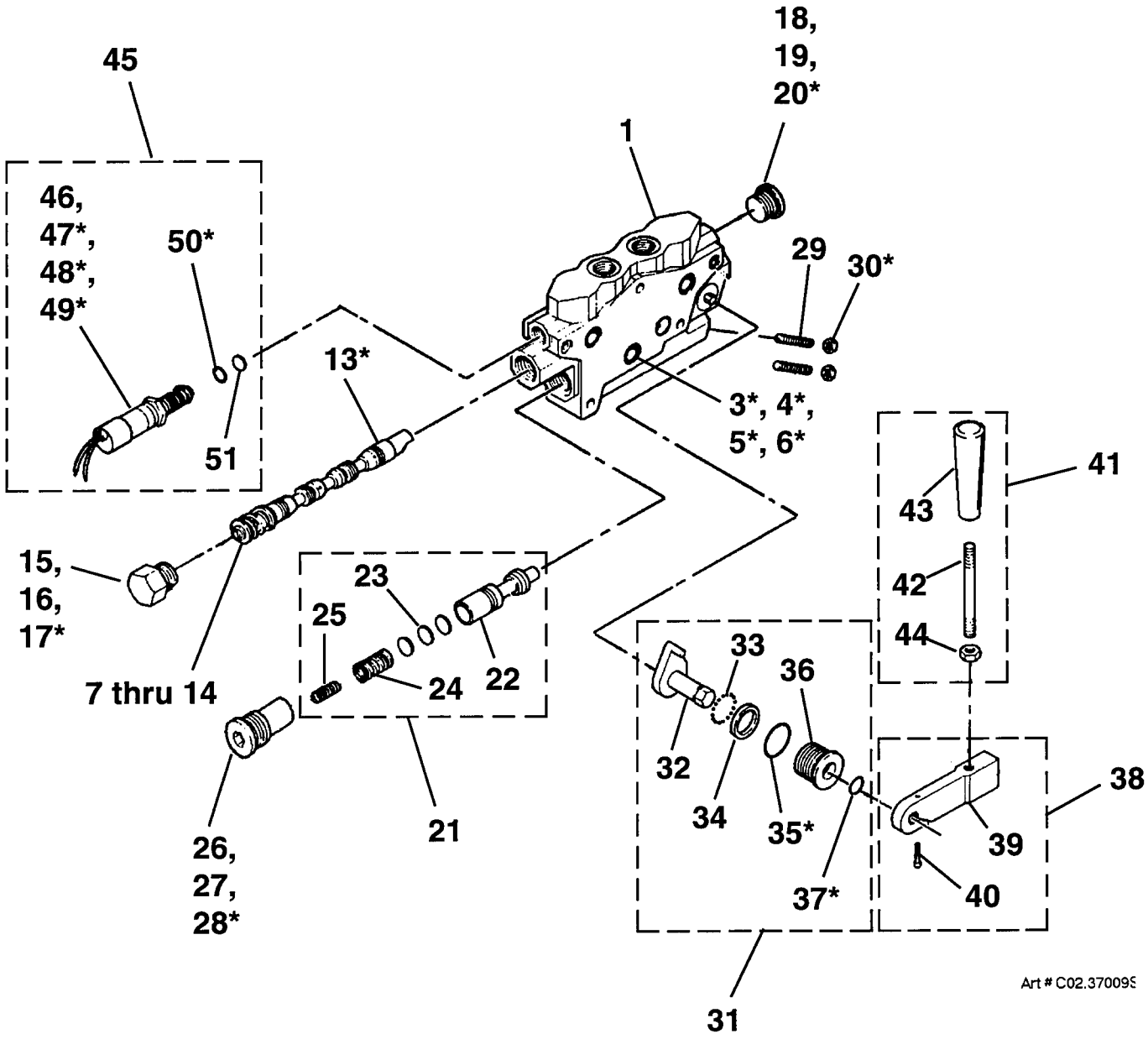

| TITLE | BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.09 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 21 | | | SPOOL KIT, COMPENSATOR | 1 |
| | 01-211012 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 22 | | | SPOOL, COMPENSATOR | 1 |
| 23 | | | SHIM (.025" [.635 mm]) | 3 |
| | | | SHIM (.008" [.203 mm]) | 3 |
| | | | SHIM (.003" [.076 mm]) | 3 |
| 24 | | | SPRING, COMPENSATOR (outer) | 1 |
| 25 | | | SPRING, COMPENSATOR (inner, | |
| | | | needed for 10 GPM [37.8 LPM] flow or greater) | 1 |
| 26 | | | PLUG, COMPENSATOR | 1 |
| | 01-211015 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 27 | | | PLUG | 1 |
| 28 | | * | "O"-RING | 1 |
| 29 | | | SET SCREW | 2 |
| | 01-211010 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 30 | | * | NUT, SEAL | 2 |
| | 01-211011 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 31 | | | HANDLE SHAFT KIT | 1 |
| | 01-211008 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 32 | | | LINK, SHAFT | 1 |
| 33 | | | BALL (Steel) | 17 |
| 34 | | | RETAINER, BEARING | 1 |
| 35 | | * | "O"-RING | 1 |
| 36 | | | PLUG, OVERRIDE | 1 |
| 37 | | * | "O"-RING | 1 |
| 38 | | | OPERATOR LINKAGE KIT (fixed) | 1 |
| | 01-211014 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 39 | | | ADAPTER, HANDLE | 1 |
| 40 | | | CAP SCREW | 1 |
| 41 | | | HANDLE KIT | 1 |
| | 01-211003 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 42 | | | ROD, HANDLE | 1 |
| 43 | | | KNOB | 1 |
| 44 | | | NUT, JAM | 1 |

**TITLE** BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| D13.09 | **SIMON AERIALS INC.** | REV. 26 JUL., 1994 | |



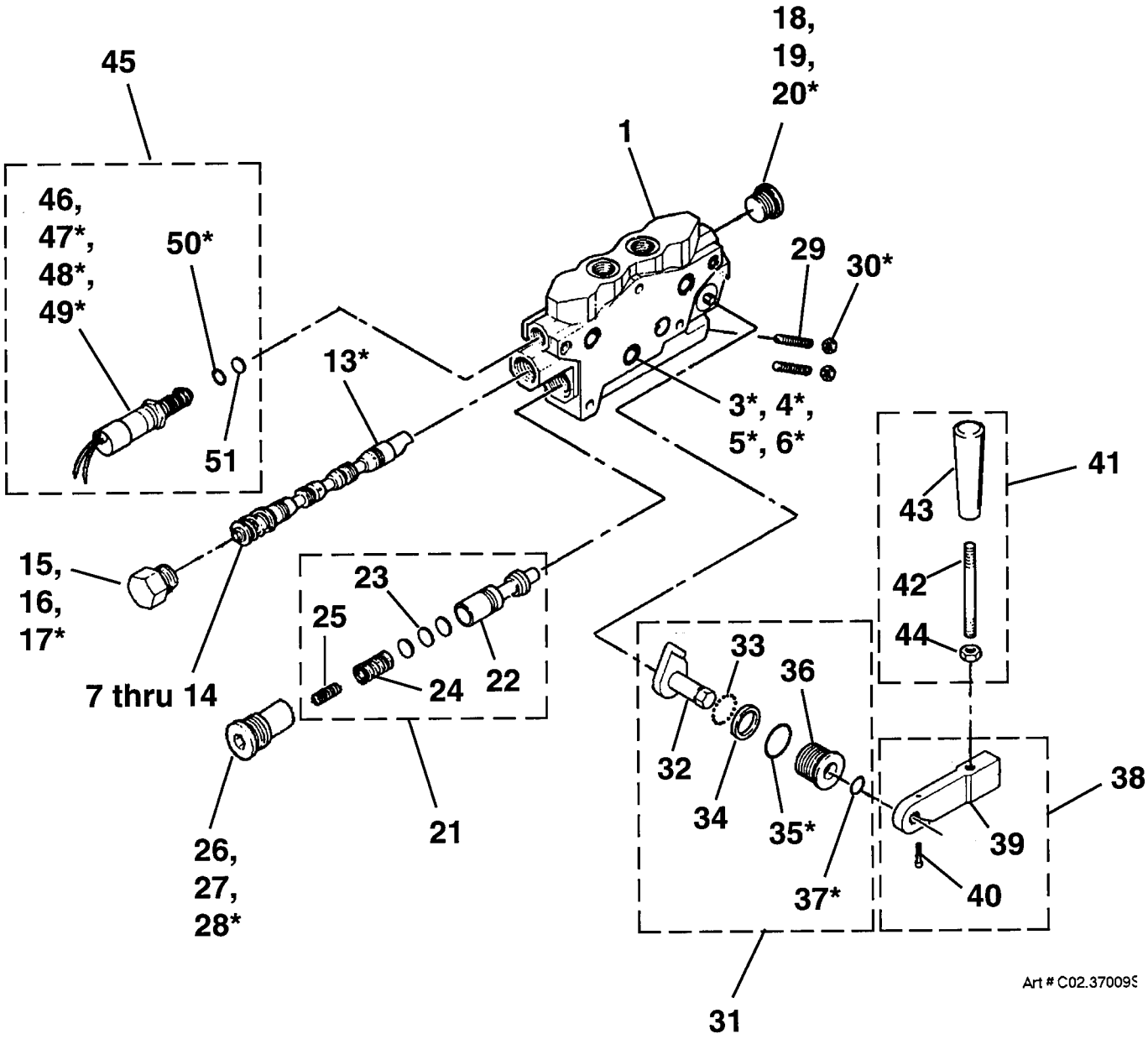

| TITLE | BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 26 JUL., 1994 | | PART NO. | PLATE NO. D13.09 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 45 | 01-211001<br>Call Simon | | SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector)<br>for **first type** valve bank assemblies (MP series only)<br>for **second type MP** and **all RP** valve bank assemblies | 1 |
| 46 | | | SOLENOID, PULSAR (12 Volt) | 1 |
| 47 | | * | "O"-RING | 1 |
| 48 | | * | SCREEN, SOLENOID FILTER | 1 |
| 49 | | * | "O"-RING (special) | 2 |
| 50 | | * | "O"-RING | 2 |
| 51 | | | PLATE, ORIFICE | 1 |

TITLE BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

PLATE NO. D13.09 | **SIMON AERIALS INC.** REV. 26 JUL., 1994 | PART NO.




TITLE BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

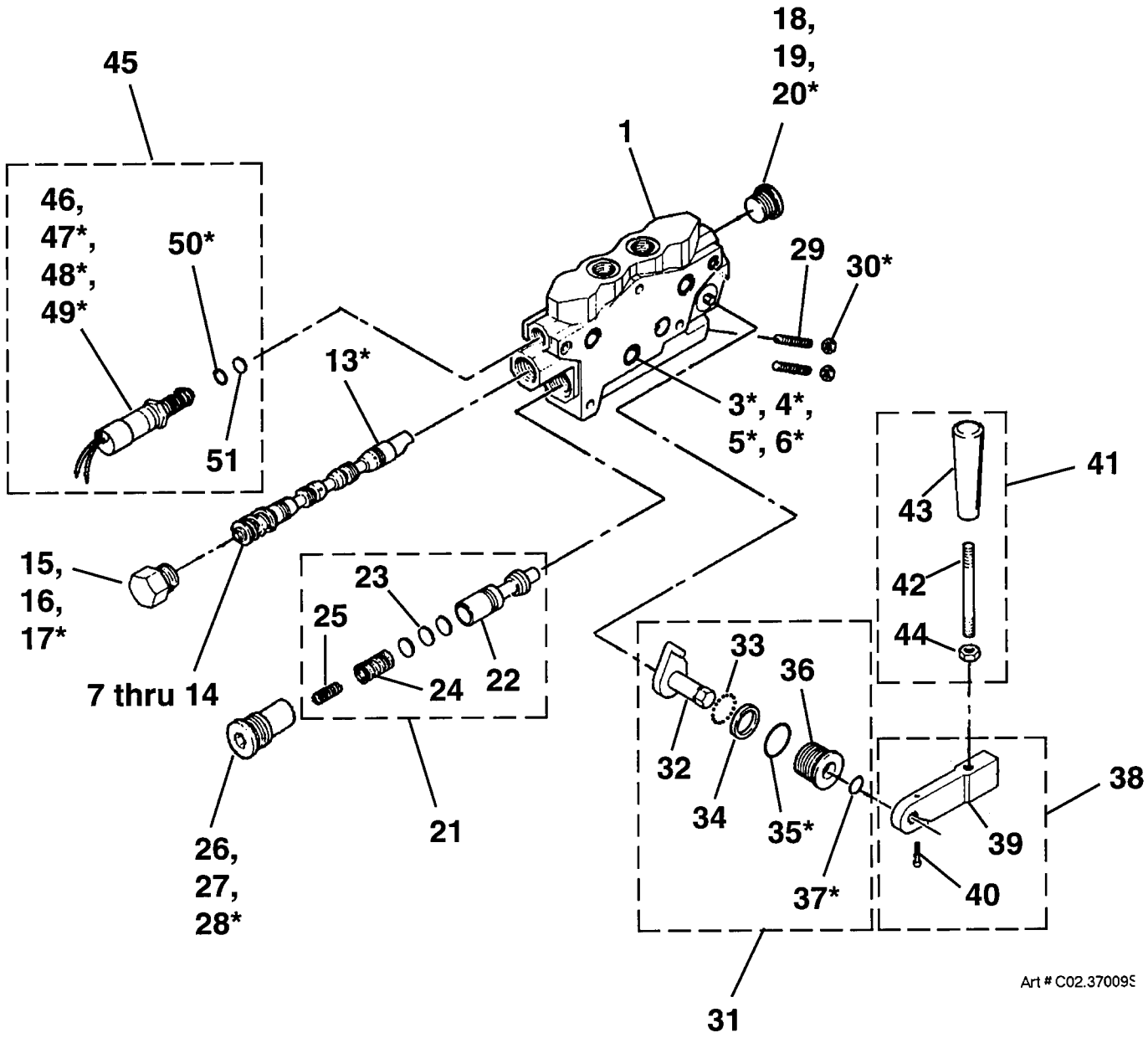
| SIMON AERIALS INC. REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.09 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | SWING VALVE SECTION | 1 |
| | 01-231206 | | for Model RP 66 | |
| | Call Simon | | for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate. | |
| 1 | | | HOUSING, SWING VALVE SECTION | 1 |
| 2 | | | SEAL KIT, WORK SEGMENT . . . includes; | 1 |
| | 01-211004 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 3 | | | BALL (for housing cross port) | 1 |
| 4 | | | "O"-RING (for housing cross port) | 1 |
| 5 | | | "O"-RING (for housing cross port) | 2 |
| 6 | | | "O"-RING (for housing cross port) | 3 |
| | | | plus all items below marked with an asterisk (*) | |
| 7 | Call Simon | | SPOOL KIT, SWING VALVE | 1 |
| | | | Please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate. | |
| 8 | | | SPOOL | 1 |
| 9 | | | RING, RETAINING | 1 |
| 10 | | | GUIDE, SPRING | 2 |
| 11 | | | SPRING, CENTERING | 1 |
| 12 | | | SHIM | 1 |
| 13 | | * | "O"-RING | 1 |
| 14 | | | HOOK, OVERRIDE | 1 |
| 15 | | | PLUG, HEX | 1 |
| | 01-211013 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 16 | | | PLUG | 1 |
| 17 | | * | "O"-RING | 1 |
| 18 | | | PLUG, SOCKET | 1 |
| | 01-211009 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 19 | | | PLUG | 1 |
| 20 | | * | "O"-RING | 1 |

TITLE SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (1 OF 3)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| D13.10 | **SIMON AERIALS INC.** | REV. 26 JUL., 1994 | |

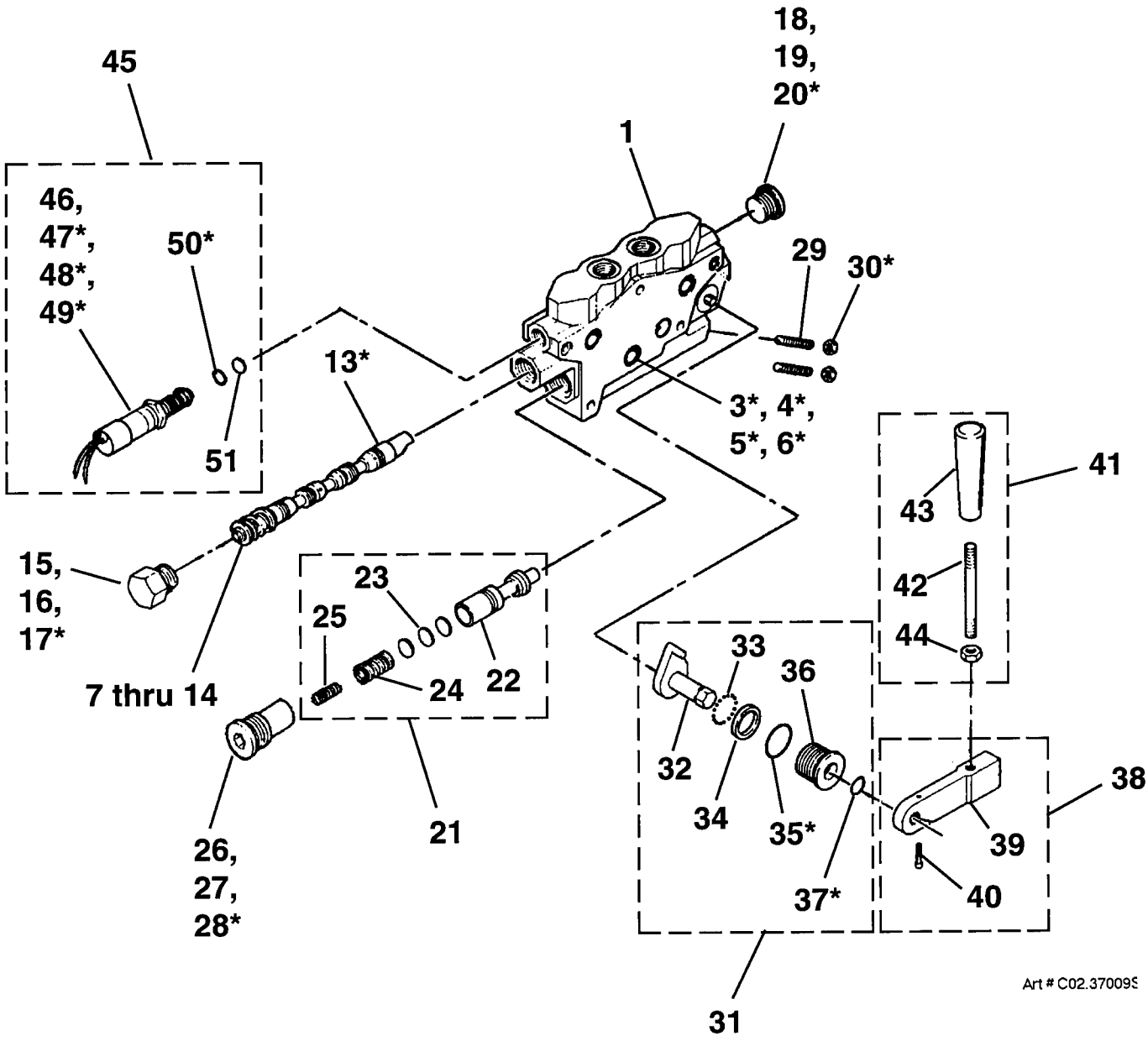



| | | | |
|---|---|---|---|
| TITLE | SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (1 OF 3) | | |
| **SIMON AERIALS INC.** | REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.10 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 21 | | | SPOOL KIT, COMPENSATOR | 1 |
| | 01-211012 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 22 | | | SPOOL, COMPENSATOR | 1 |
| 23 | | | SHIM (.025" [.635 mm]) | 3 |
| | | | SHIM (.008" [.203 mm]) | 3 |
| | | | SHIM (.003" [.076 mm]) | 3 |
| 24 | | | SPRING, COMPENSATOR (outer) | 1 |
| 25 | | | SPRING, COMPENSATOR (inner, | |
| | | | needed for 10 Gal [37.8 Liter]/ Min flow or greater) | 1 |
| 26 | | | PLUG, COMPENSATOR | 1 |
| | 01-211015 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 27 | | | PLUG | 1 |
| 28 | | * | "O"-RING | 1 |
| 29 | | | SET SCREW | 2 |
| | 01-211010 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 30 | | * | NUT, SEAL | 2 |
| | 01-211011 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 31 | | | HANDLE SHAFT KIT | 1 |
| | 01-211008 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 32 | | | LINK, SHAFT | 1 |
| 33 | | | BALL (Steel) | 17 |
| 34 | | | RETAINER, BEARING | 1 |
| 35 | | * | "O"-RING | 1 |
| 36 | | | PLUG, OVERRIDE | 1 |
| 37 | | * | "O"-RING | 1 |
| 38 | | | OPERATOR LINKAGE KIT (fixed) | 1 |
| | 01-211014 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 39 | | | ADAPTER, HANDLE | 1 |
| 40 | | | CAP SCREW | 1 |
| 41 | | | HANDLE KIT | 1 |
| | 01-211003 | | for **first type** valve bank assemblies (MP series only) | |
| | Call Simon | | for **second type MP** and **all RP** valve bank assemblies | |
| 42 | | | ROD, HANDLE | 1 |
| 43 | | | KNOB | 1 |
| 44 | | | NUT, JAM | 1 |

TITLE SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (2 OF 3)

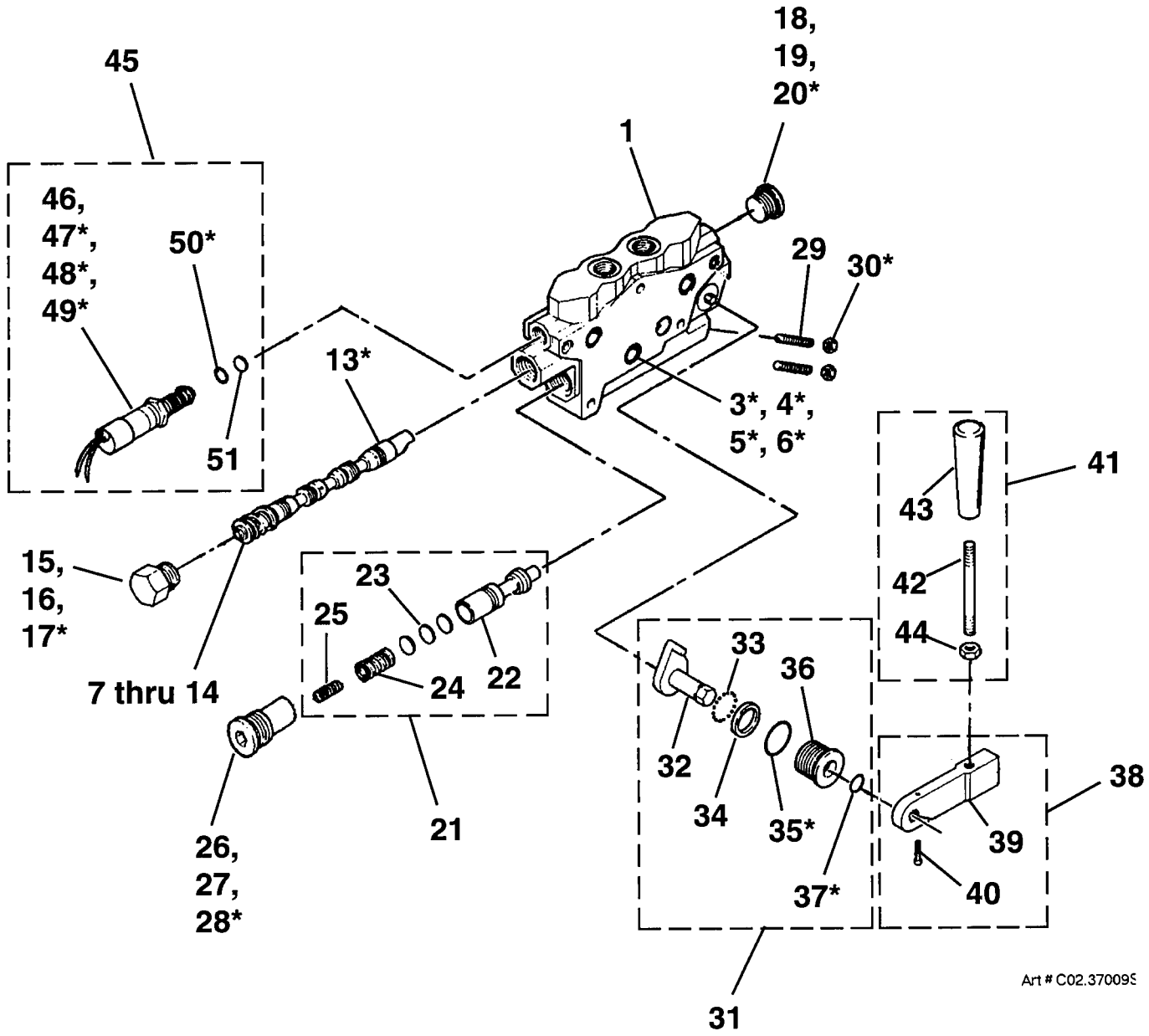



| | | | |
|---|---|---|---|
| TITLE | SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (2 OF 3) | | |
| **SIMON AERIALS INC.** | REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.10 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 45 | 01-211001<br>Call Simon | | SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector)<br>for **first type** valve bank assemblies (MP series only)<br>for **second type MP** and **all RP** valve bank assemblies | 1 |
| 46 | | | SOLENOID, PULSAR (12 Volt) | 1 |
| 47 | | * | "O"-RING | 1 |
| 48 | | * | SCREEN, SOLENOID FILTER | 1 |
| 49 | | * | "O"-RING (special) | 2 |
| 50 | | * | "O"-RING | 2 |
| 51 | | | PLATE, ORIFICE | 1 |

| TITLE | SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (3 OF 3) | |
|---|---|---|
| PLATE NO. D13.10 | **SIMON AERIALS INC.** REV. 26 JUL., 1994 | PART NO. |

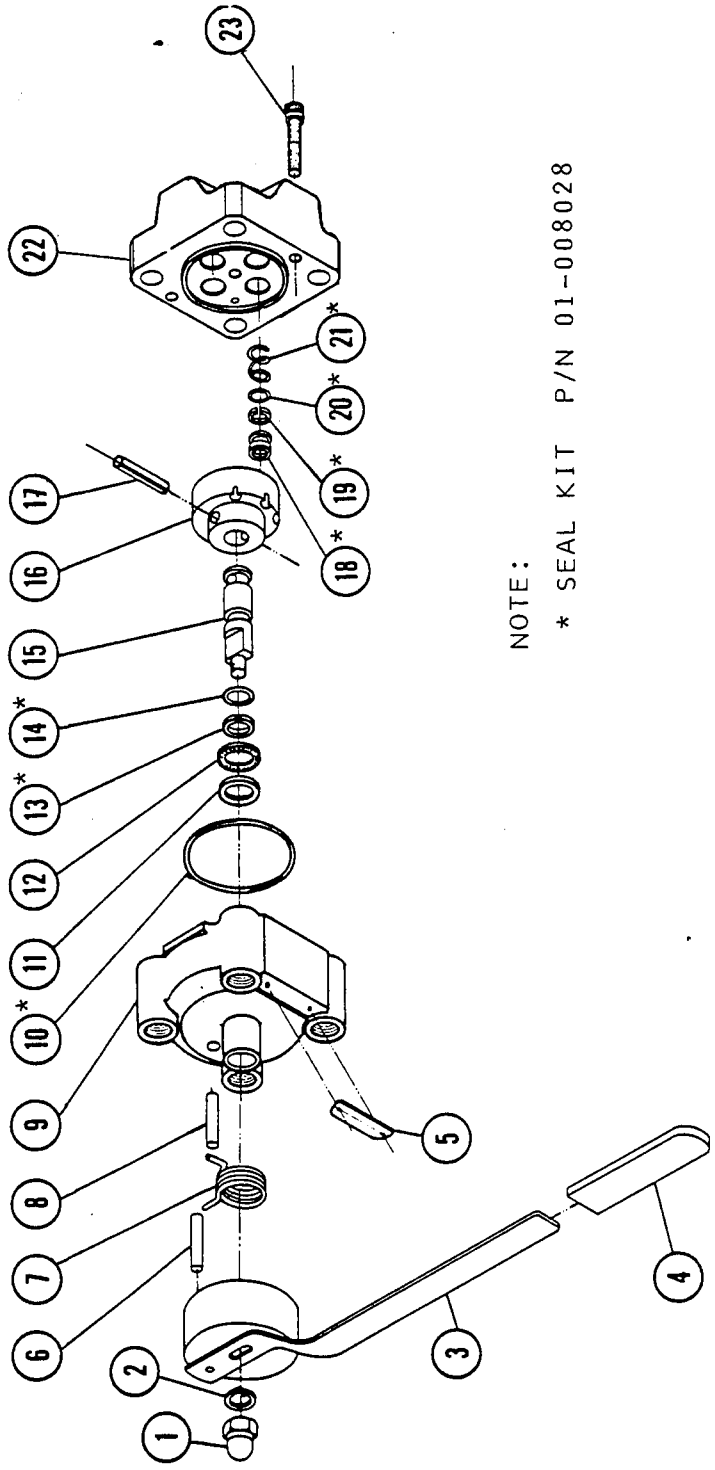



| TITLE | SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (3 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.10 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | ACORN NUT | 1 |
| 2 | | | LOCKWASHER | 1 |
| 3 | 01-008001 | | HANDLE | 1 |
| 4 | 01-008002 | | HANDLE GRIP | 1 |
| 5 | | | NAMEPLATE | 1 |
| 6 | | | HUB DOWEL PIN | 1 |
| 7 | 01-008003 | | TORSION SPRING | 1 |
| 8 | | | HOUSING ROLL PIN | 1 |
| 9 | | | HOUSING | 1 |
| 10* | | | HOUSING 'O' RING | 1 |
| 11 | 01-008007 | | THRUST WASHER | 1 |
| 12 | 01-008006 | | THRUST BEARING | 1 |
| 13* | | | SHAFT BACKUP RING | 1 |
| 14* | | | SHAFT 'O' RING | 1 |
| 15 | 01-008004 | | SHAFT | 1 |
| 16 | 01-008005 | | ROTOR | 1 |
| 17 | | | ROTOR ROLL PIN | 1 |
| 18* | | | SEAL | 3 |
| 19* | | | BACK-UP RING | 3 |
| 20* | 01-008006 | | 'O' RING | 3 |
| 21* | | | SPRING | 3 |
| 22 | | | BODY | 1 |
| 23 | | | CAP SCREW | 4 |
| * | 1-008028 | | SEAL KIT | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| 4-WAY MANUAL VALVE | 01-008000 |



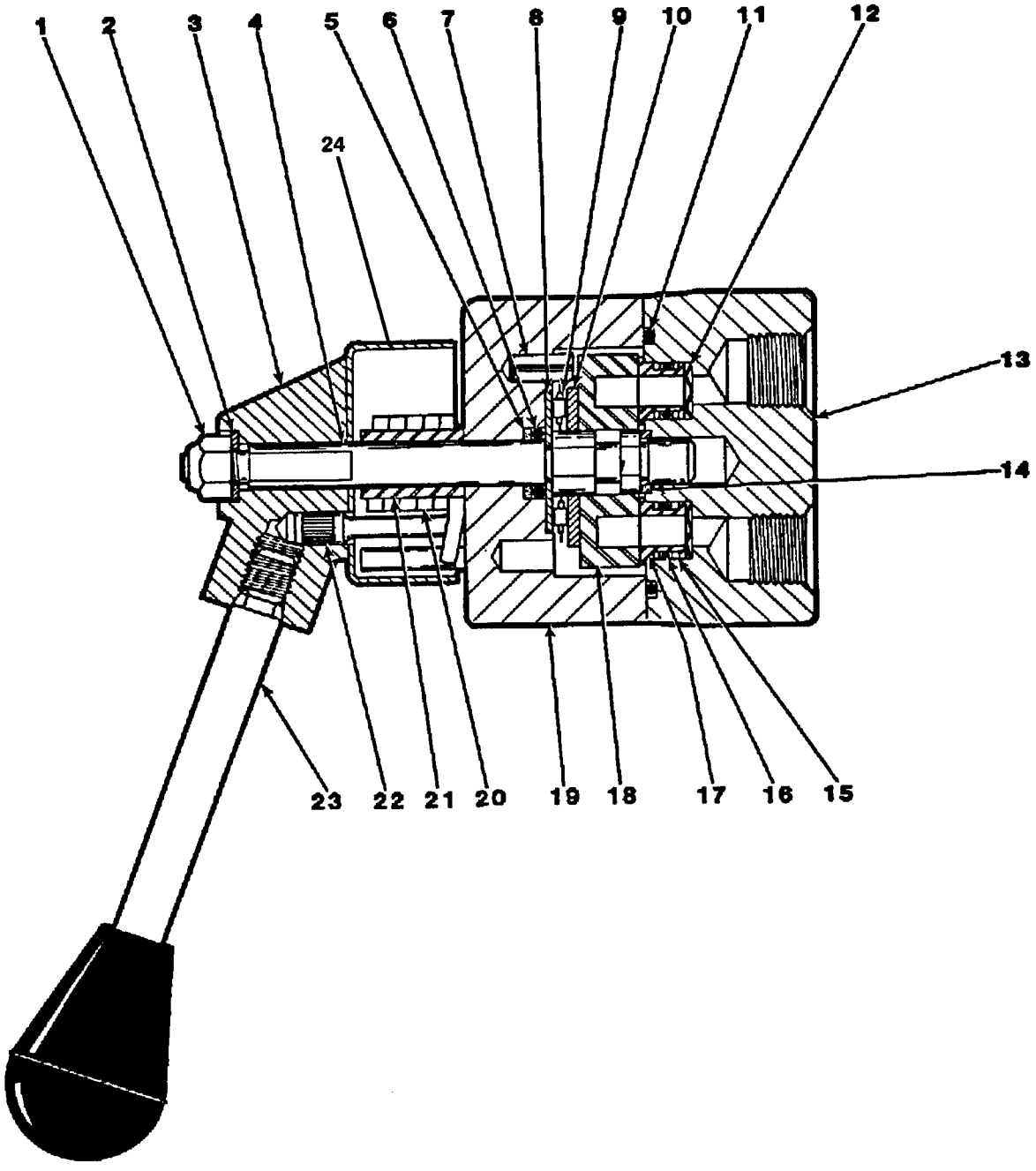

1283/0677

| DESCRIPTION | PART NO. |
|---|---|
| 4-WAY MANUAL VALVE | 01-008000 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 01-069802 | | NUT, LOCK (1/4"-28) | 1 |
| 2 | 01-069803 | | WASHER, HANDLE | 1 |
| 3 | 01-069801 | | HANDLE ASSEMBLY (includes Handle, item 23) | 1 |
| 4 | 01-069804 | | SHAFT, VALVE HANDLE | 1 |
| 5 | 01-069805 | | RING, BACK-UP | 1 |
| 6 | 01-069806 | | "O"-RING | 1 |
| 7 | 01-069807 | | PIN, ROLL | 2 |
| 8 | 01-069808 | | RACE, BEARING | 1 |
| 9 | 01-069809 | | BEARING, THRUST | 1 |
| 10 | 01-069810 | | PLATE, STOP | 1 |
| 11 | 01-069811 | | "O"-RING | 1 |
| 12 | 01-069812 | | SPRING, SEAL | |
| 13 | 01-069901 | | BODY, VALVE | 1 |
| 14 | 01-069814 | | WASHER, SHAFT | 1 |
| 15 | 01-069815 | | RING, BACK-UP | 4 |
| 16 | 01-069816 | | "O"-RING | 2 |
| 17 | 01-069817 | | SEAL | 2 |
| 18 | 01-069902 | | DISK ASSEMBLY | 1 |
| 19 | 01-069819 | | CAP | 1 |
| 20 | 01-069820 | | SPRING | 1 |
| 21 | 01-069821 | | BUSHING | 1 |
| 22 | 01-069822 | | PIN (5/16" diameter) | 1 |
| | 01-069824 | | PIN (3/8" diameter) | 1 |
| 23 | | | HANDLE (comes with Handle Assembly, item 3) | 1 |
| 24 | 01-069823 | | HUB ASSEMBLY | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | 4-WAY MANUAL CONTROL VALVE | | | |
| PLATE NO. | D14.03 | SIMON AERIALS INC. | REV. 26 APR., 1993 | PART NO. 01-069900 |




1086/1286

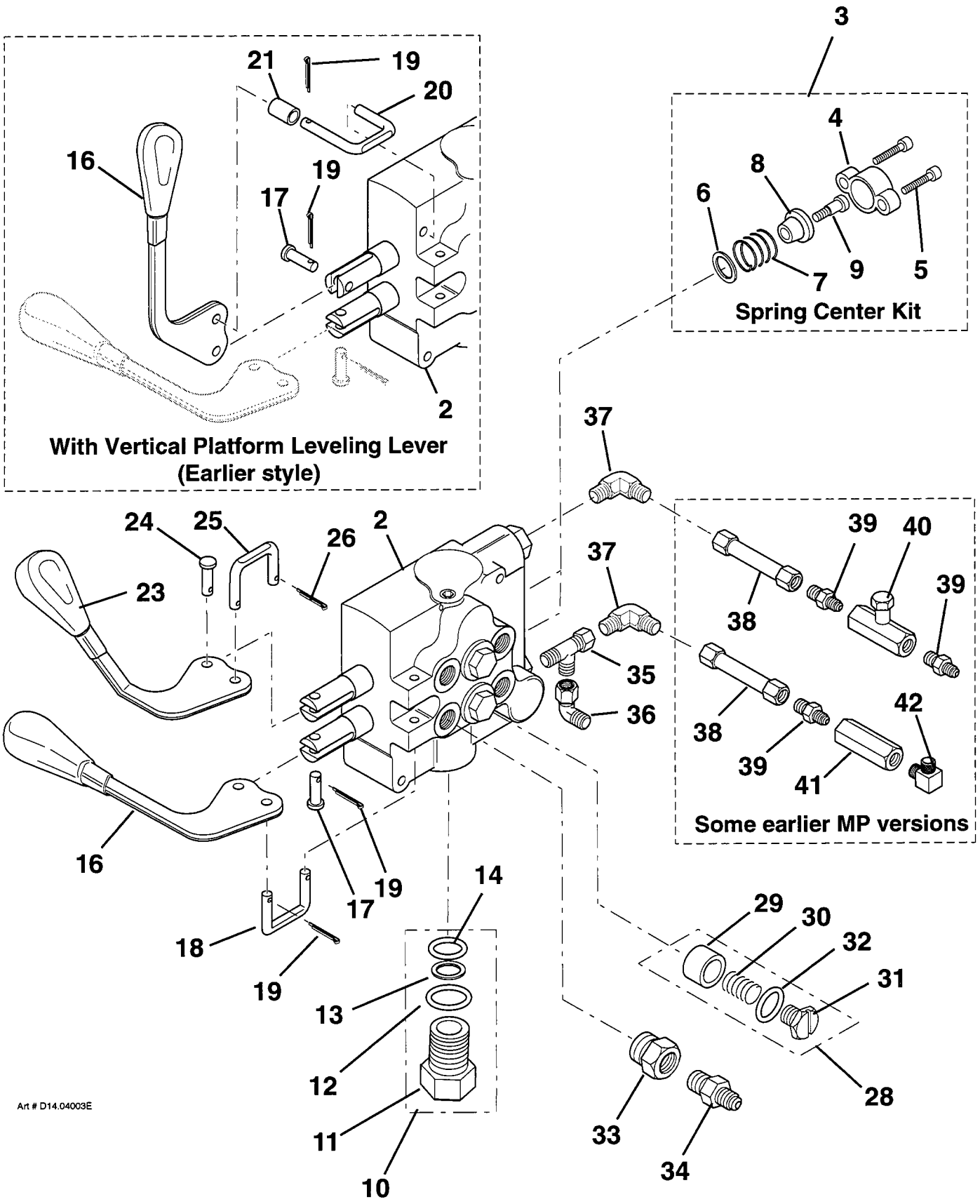
| TITLE | 4-WAY MANUAL CONTROL VALVE | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 26 APR., 1993 | PART NO. 01-069900 | PLATE NO. D14.03 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | VALVE ASSEMBLY, PLATFORM ROTATE AND LEVEL | 1 |
| | 352 4590 | | for MP Series **except MP 110** | |
| | 352 4590 | | for RP "Reach Plus" **except RP 120** | |
| | | | for Model **MP 110, RP 120** "Reach Plus", or Trailblazer **40:** | |
| | 353 0750 | | Early style (Platform leveling lever is **mounted vertically**) | |
| | 353 1480 | | Later style (Platform leveling lever is **bent 45° upward**) | |
| | 353 3920 | | for Trailblazer **60** | |
| 1 | | | VALVE, PLATFORM ROTATE AND LEVEL | |
| | | | (Modified two spool valve 01-207100) | 1 |
| | 218 1260 | | Early style (Platform leveling lever **mounted vertically**) | |
| | 230 0610 | | Later style (Platform leveling lever is **bent 45° upward**) | |
| 2 | | | SPOOL AND BODY ASSEMBLY | |
| 3 | 01-207103 | | SPRING CENTER KIT | 2 |
| 4 | | | CAP, END | 1 |
| 5 | | | SCREW (with lock washer) | 2 |
| 6 | | | WASHER | 1 |
| 7 | | | SPRING, RETURN | 1 |
| 8 | | | SPACER | 1 |
| 9 | | | BOLT, SHOULDER | 1 |
| 10 | | | BUSHING KIT, POWER BEYOND | 1 |
| 11 | | | BUSHING, POWER BEYOND | 1 |
| 12 | | | "O"-RING | 1 |
| 13 | | | RING, BACKUP | 1 |
| 14 | | | "O"-RING | 1 |
| 15 | 01-207102 | | HANDLE KIT (Straight handle) | A.R. |
| 16 | 01-207105 | | HANDLE | 1 |
| 17 | 01-098403 | | PIN, CLEVIS | 1 |
| 18 | 01-207104 | | "C"-HOOK | 1 |
| 19 | 01-207106 | | PIN, COTTER | 3 |
| 20 | 218 0880 | | PIN, PIVOT (For earlier style platform leveling lever. Replaces "C"-hook in handle kit above.) | 1 |
| 21 | 218 0900 | | SPACER, VALVE PIVOT PIN | |
| | | | (For earlier style vertical platform leveling lever) | 1 |
| 22 | 01-207107 | | HANDLE KIT (45° angled handle, for later style platform leveling lever.) | 1 |
| 23 | 01-207108 | | HANDLE | 1 |
| 24 | 01-098403 | | PIN, CLEVIS | 1 |
| 25 | 01-207104 | | "C"-HOOK | 1 |
| 26 | 01-207106 | | PIN, COTTER | 3 |

TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 1 OF 2)

PLATE NO. D14.04 | **SIMON AERIALS INC.** REV. 29 NOV., 1995 | PART NO.




TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 1 OF 2)

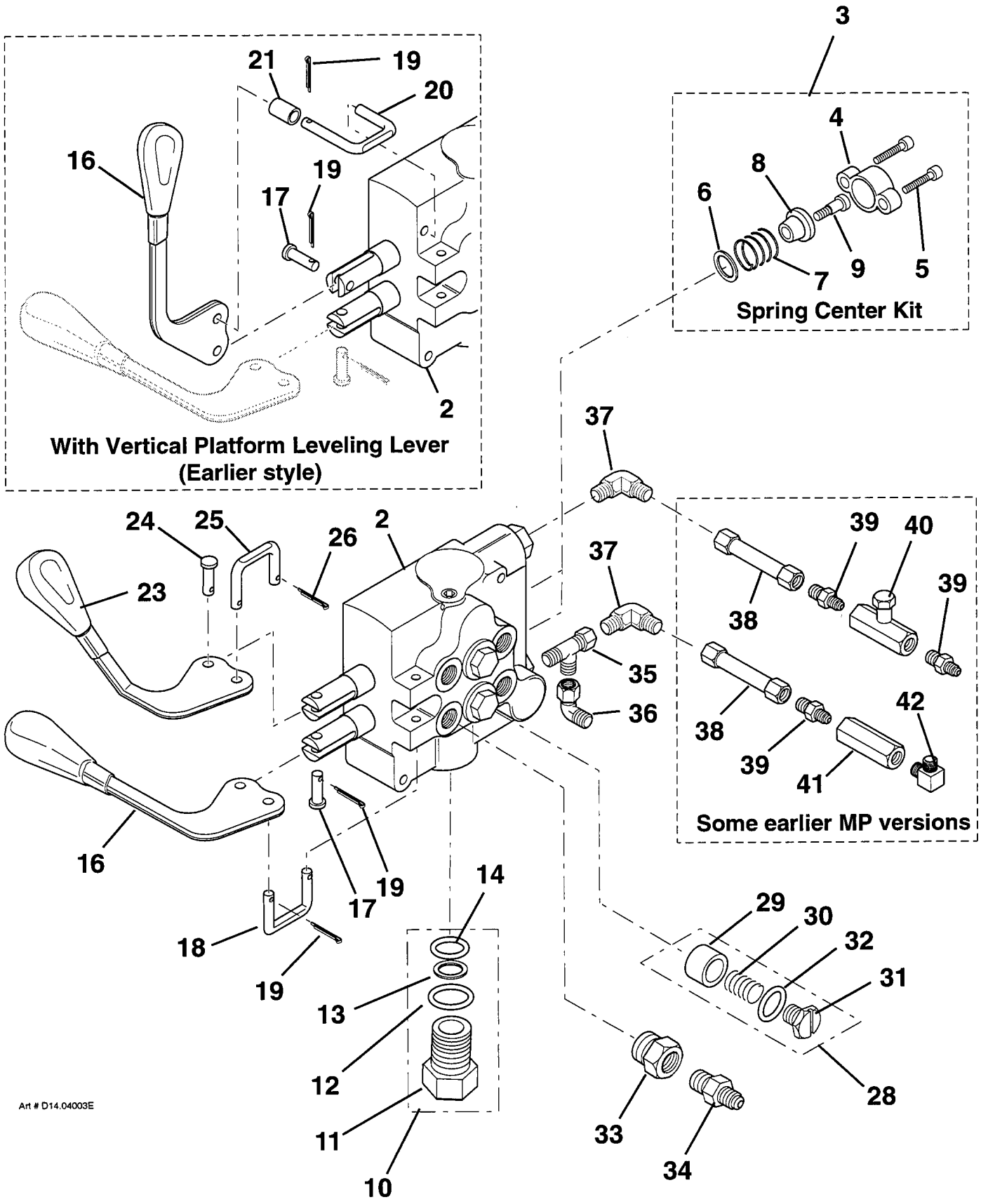
| SIMON AERIALS INC. REV. 29 NOV., 1995 | PART NO. | PLATE NO. D14.04 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | The following items **are not** part of Valve assembly 218 1260 or 230 0610: | |
| 27 | 01-207101 | | SEAL KIT | 1 |
| 28 | | | VALVE KIT, LOAD CHECK (used in some applications) | 2 |
| 29 | | | POPPET, LOAD CHECK | 1 |
| 30 | | | SPRING | 1 |
| 31 | | | PLUG, HEX HEAD | 1 |
| 32 | | | "O"-RING | |
| 33 | | | FITTING, ORIFICED (either of these may be fitted) | 4 |
| | 218 9010 | | Modified **4-6** F5OX-S (Optional. Item 34 **is not** required.) | |
| | 219 0800 | | Modified **4** F5OX-S (Optional. Item 34 **is also** required.) | |
| 34 | 06-090300 | | REDUCER/ EXPANDER (6-4 F5OG5-S) (required with connector **219 0800**, Item 33 above) | 4 |
| 35 | 06-054500 | | RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S) (for Assembly **353 3920 [Trailblazer 60]** only) | 1 |
| 36 | 06-051500 | | 90° ELBOW, SWIVEL NUT (6 C6X-S) (for Assembly **353 3920 [Trailblazer 60]** only) | 1 |
| 37 | 06-044600 | | 90° ELBOW, STRAIGHT THREAD (6 C5OX-S) | 2 |
| | | | Items 38 through 42 were used in some earlier MP Series applications: | |
| 38 | 350 7867 | | TUBE ASSEMBLY | 2 |
| 39 | 06-039800 | | CONNECTOR, STRAIGHT THREAD (6 F5OX-S) | 3 |
| 40 | 01-018900 | | VALVE, FLOW CONTROL (#6 SAE ports) | 1 |
| 41 | 01-020800 | | VALVE, POPPET CHECK (3 PSI) | 1 |
| 42 | 06-044400 | | ELBOW, STRAIGHT THREAD (4-6 C5OX-S) | 1 |
| | | | Items 43 through 45 are used for mounting the valve assembly *in most applications:* | |
| 43 | 07-003009 | | CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5) | 2 |
| 44 | 07-062014 | | WASHER, FLAT (1/4") | 4 |
| 45 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 2 |

TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 2 OF 2)

PLATE NO. D14.04 | **SIMON AERIALS INC.** REV. 29 NOV., 1995 | PART NO.




TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 2 OF 2)

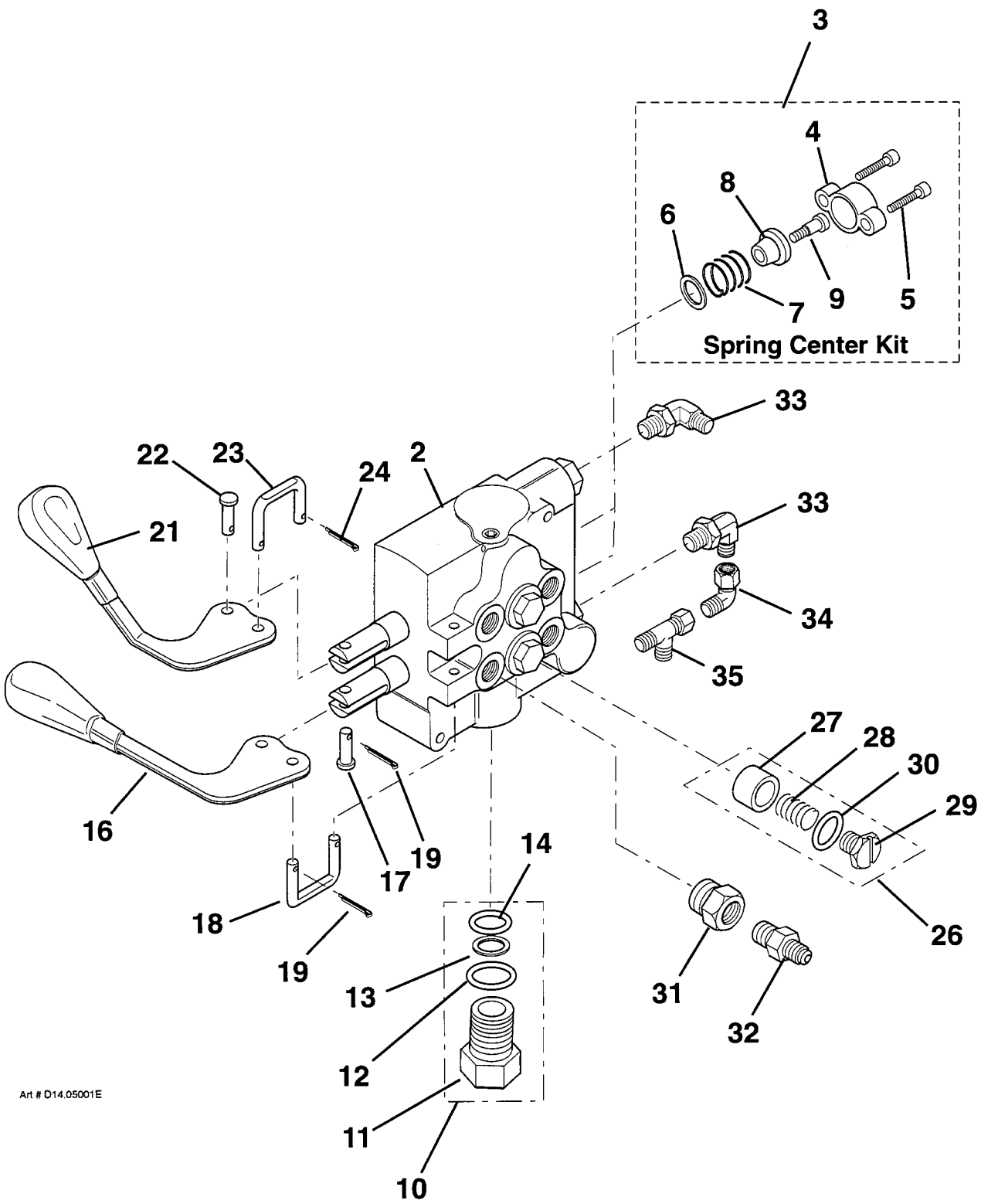
**SIMON AERIALS INC.** REV. 29 NOV., 1995 | PART NO. | PLATE NO. D14.04

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | 354 4120 | | VALVE ASSEMBLY, PLATFORM ROTATE AND LEVEL | 1 |
| 1 | 230 0610 | | VALVE, PLATFORM ROTATE AND LEVEL | |
| | | | (Modified two spool valve 01-207100) | 1 |
| 2 | | | SPOOL AND BODY ASSEMBLY | |
| 3 | 01-207103 | | SPRING CENTER KIT | 2 |
| 4 | | | CAP, END | 1 |
| 5 | | | SCREW (with lock washer) | 2 |
| 6 | | | WASHER | 1 |
| 7 | | | SPRING, RETURN | 1 |
| 8 | | | SPACER | 1 |
| 9 | | | BOLT, SHOULDER | 1 |
| 10 | | | BUSHING KIT, POWER BEYOND | 1 |
| 11 | | | BUSHING, POWER BEYOND | 1 |
| 12 | | | "O"-RING | 1 |
| 13 | | | RING, BACKUP | 1 |
| 14 | | | "O"-RING | 1 |
| 15 | 01-207102 | | HANDLE KIT (Straight handle) | 1 |
| 16 | 01-207105 | | HANDLE | 1 |
| 17 | 01-098403 | | PIN, CLEVIS | 1 |
| 18 | 01-207104 | | "C"-HOOK | 1 |
| 19 | 01-20710 | | PIN, COTTER | 3 |
| 20 | 01-207107 | | HANDLE KIT (45° angled handle) | 1 |
| 21 | 01-207108 | | HANDLE | 1 |
| 22 | 01-098403 | | PIN, CLEVIS | 1 |
| 23 | 01-207104 | | "C"-HOOK | 1 |
| 24 | 01-207106 | | PIN, COTTER | 3 |

TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 1 OF 2)

PLATE NO. D14.05 | **SIMON AERIALS INC.** NEW 09 SEP., 1995 | PART NO. 354 4120



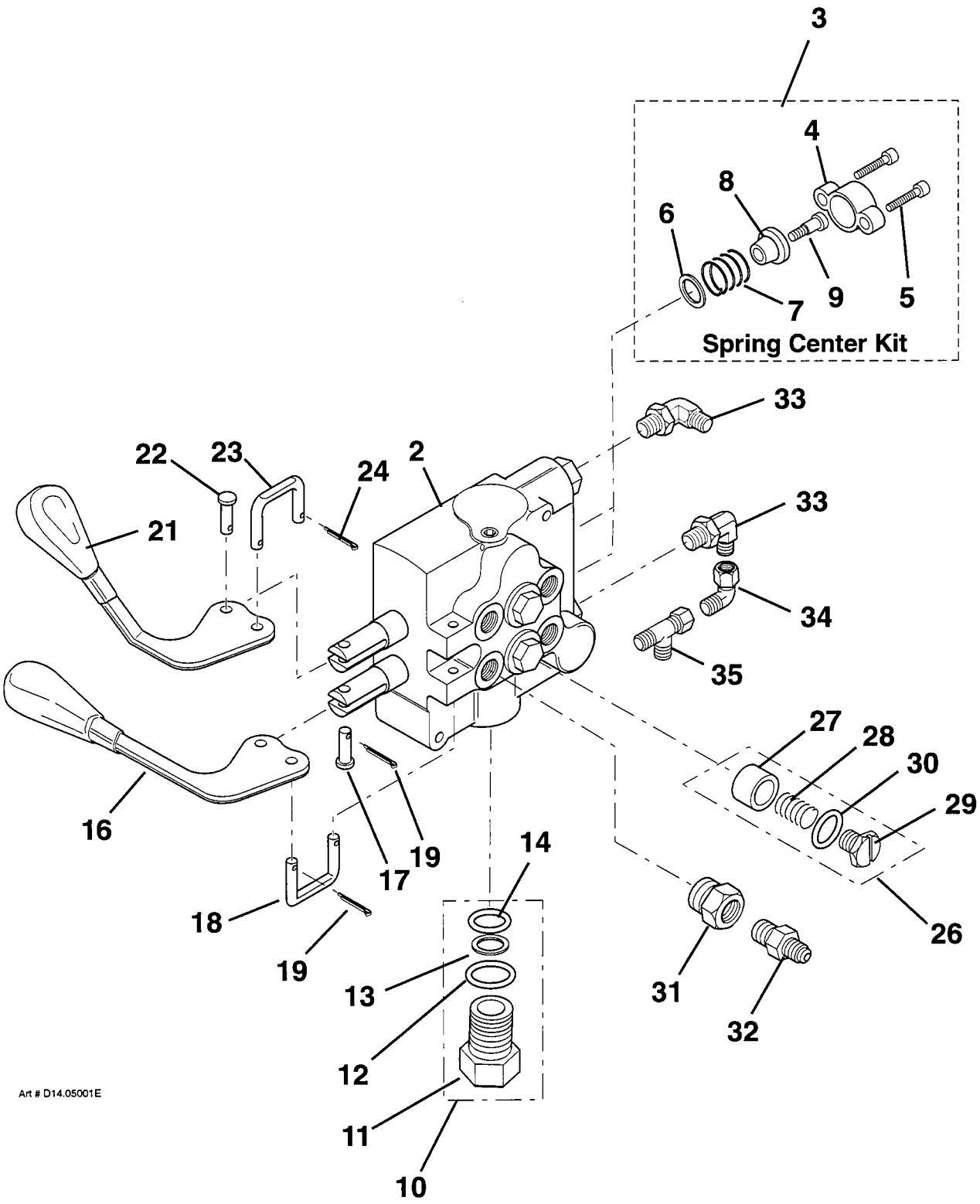

| | | | |
|---|---|---|---|
| TITLE | PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 1 OF 2) | | |
| **SIMON AERIALS INC.** | NEW 09 SEP., 1995 | PART NO. 354 4120 | PLATE NO. D14.05 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | The following items **are not** part of Valve 230 0610: | |
| 25 | 01-207101 | | SEAL KIT | 1 |
| 26 | | | VALVE KIT, LOAD CHECK (used in some applications) | 2 |
| 27 | | | POPPET, LOAD CHECK | 1 |
| 28 | | | SPRING | 1 |
| 29 | | | PLUG, HEX HEAD | 1 |
| 30 | | | "O"-RING | |
| 31 | | | FITTING, ORIFICED (either of these may be fitted) | 4 |
| | 218 9010 | | Modified **4-6** F5OX-S (Optional. Item 32 **is not** required.) | |
| | 219 0800 | | Modified **4** F5OX-S (Optional. Item 32 **is also** required.) | |
| 32 | 06-090300 | | REDUCER/ EXPANDER (6-4 F5OG5-S) | |
| | | | (required with connector **219 0800**, Item 31 above) | 4 |
| 33 | 06-044600 | | 90° ELBOW, "O"-RING TO 37° (6 C5OX-S) | 2 |
| 34 | 06-051500 | | 90° ELBOW, SWIVEL NUT (6 C6X-S) | 1 |
| 35 | 06-054500 | | RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S) | 1 |
| | | | Items 36 through 38 are used for mounting the valve assembly *in most applications:* | |
| 36 | 07-003009 | | CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5) | 2 |
| 37 | 07-062014 | | WASHER, FLAT (1/4") | 4 |
| 38 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 2 |

TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 2 OF 2)

PLATE NO. D14.05 | **SIMON AERIALS INC.** NEW 09 SEP., 1995 | PART NO. 354 4120

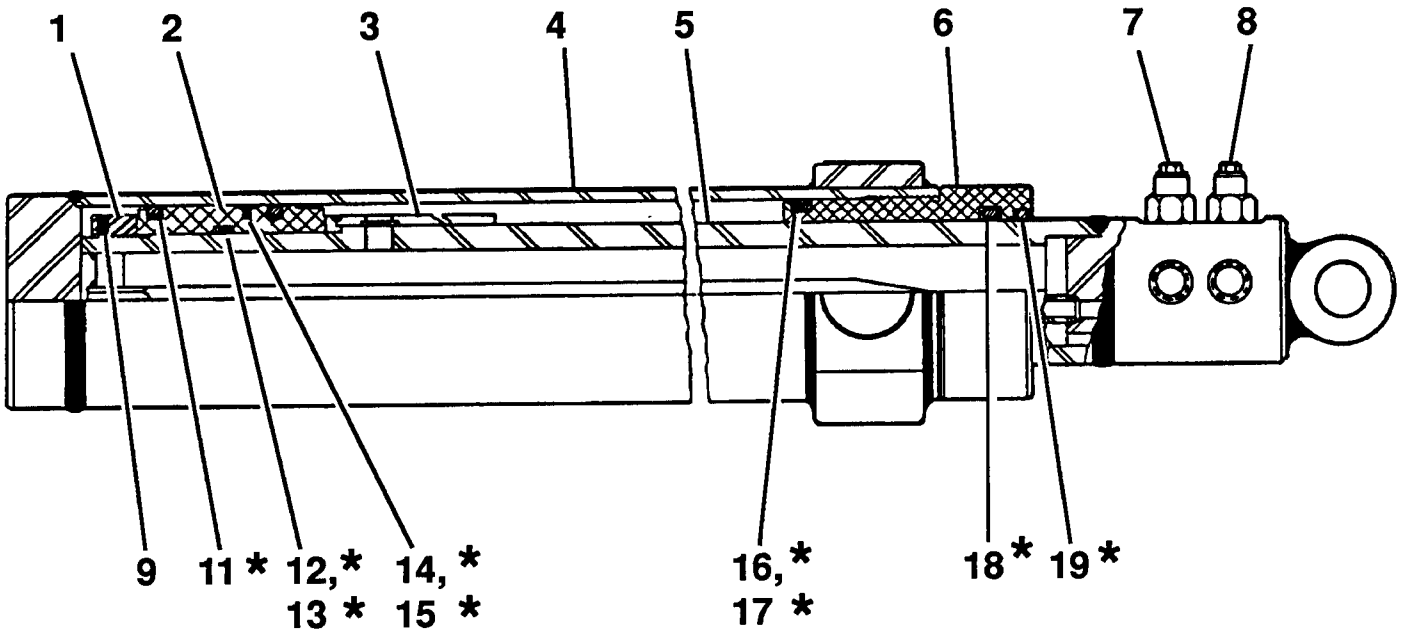



| | | | |
|---|---|---|---|
| TITLE | PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 2 OF 2) | | |
| **SIMON AERIALS INC.** | NEW 09 SEP., 1995 | PART NO. 354 4120 | PLATE NO. D14.05 |

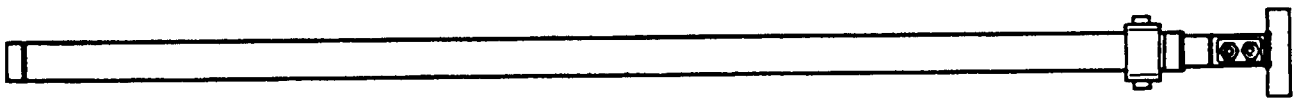
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | NUT, RING | 1 |
| 2 | | | PISTON | 1 |
| 3 | | | SPACER | 1 |
| 4 | | | CASE | 1 |
| 5 | | | ROD | 1 |
| 6 | | | GLAND, HEAD | 1 |
| 7 | 04-011302 | | VALVE, HOLDING (Extend) | 1 |
| 8 | 04-011303 | | VALVE, HOLDING (Retract) | 1 |
| 9 | | | SCREW, SET | 1 |
| 10 | 04-011301 | | SEAL KIT (includes items 10 thru 19) | 1 |
| 11 | | | RING, PISTON | 2 |
| 12 | | | "O"-RING | 1 |
| 13 | | | RING, BACKUP | 2 |
| 14 | | | SEAL, PISTON | 1 |
| 15 | | | "O"-RING | 1 |
| 16 | | | RING, BACKUP | 1 |
| 17 | | | "O"-RING | 1 |
| 18 | | | SEAL, ROD | 1 |
| 19 | | | WIPER | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | TELESCOPE (EXTEND) CYLINDER | | | |
| PLATE NO. | D19.28 | **SIMON AERIALS INC.** | REV. 09 JAN., 1992 | PART NO. 04-011300 |




**Note: Items in seal kit (Item 10) identified by asterisk (*).**

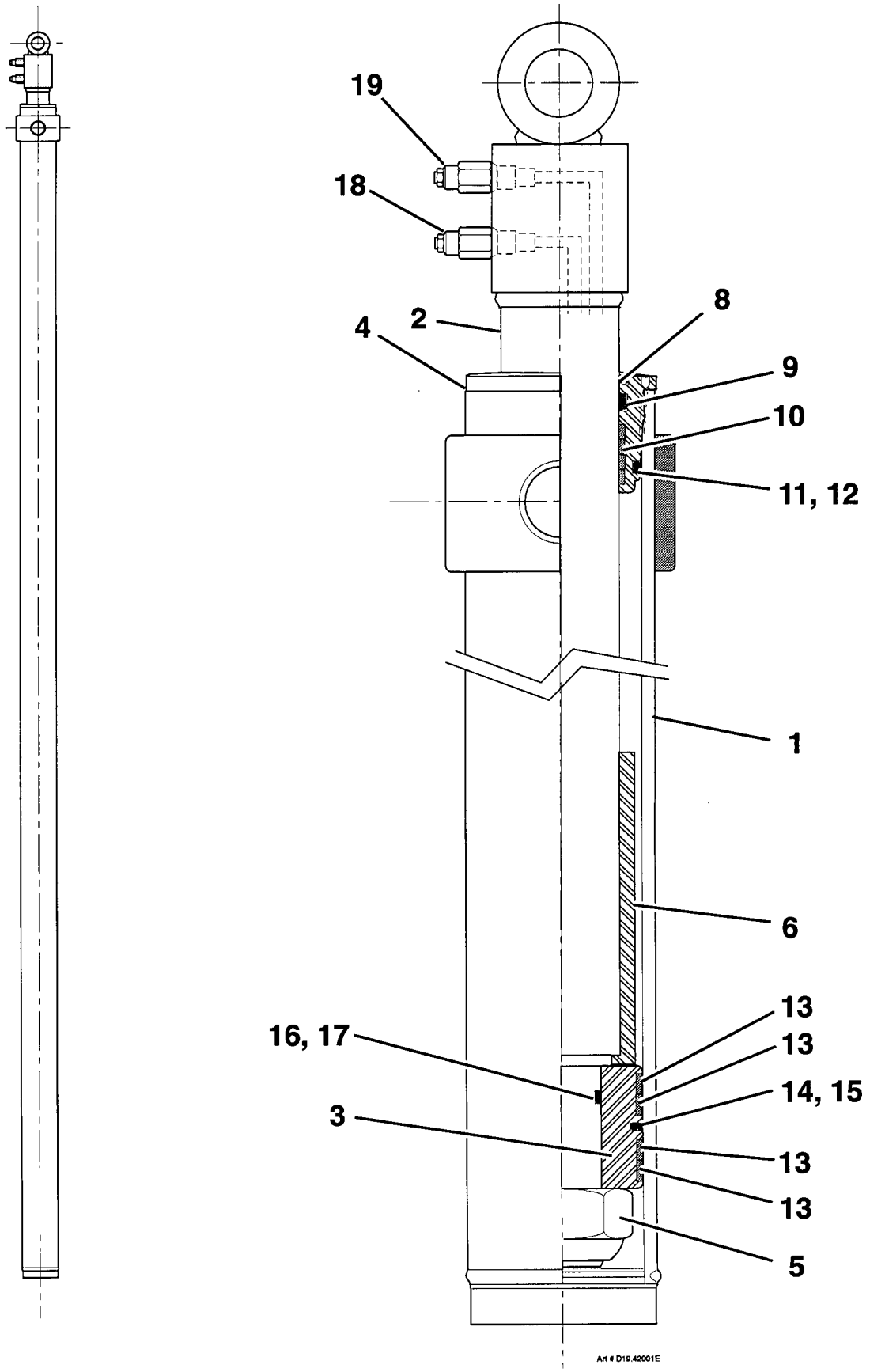


| TITLE | TELESCOPE (EXTEND) CYLINDER | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 09 JAN., 1992 | | PART NO. 04-011300 | PLATE NO. D19.28 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | Cylinder can be identified by Part Number "04036600SH" on nameplate located on cylinder case. | |
| 1 | | | CASE, CYLINDER | 1 |
| 2 | | | ROD, CYLINDER | 1 |
| 3 | | | PISTON | 1 |
| 4 | | | GLAND, HEAD | 1 |
| 5 | | | NUT, LOCK | 1 |
| 6 | | | SPACER | 4 |
| 7 | 04-036601 | | SEAL KIT | 1 |
| 8 | | | WIPER, ROD | 1 |
| 9 | | | SEAL, ROD | 1 |
| 10 | | | RING, ROD WEAR | 4 |
| 11 | | | "O"-RING | 1 |
| 12 | | | RING, BACKUP | 1 |
| 13 | | | RING, PISTON WEAR | 4 |
| 14 | | | "O"-RING | 1 |
| 15 | | | SEAL, PISTON | 1 |
| 16 | | | "O"-RING | 1 |
| 17 | | | WASHER, BACKUP | 1 |
| 18 | 04-036503 | | VALVE, HOLDING (Extend) [factory set at 3900 PSI (269 Bar) (274.2 Kg/ $cm^2$)] | 1 |
| 19 | 04-036502 | | VALVE, HOLDING (Retract) [factory set at 1300 PSI (89.6 Bar) (91.4 Kg/ $cm^2$)] | 1 |

| TITLE | TELESCOPE CYLINDER, 274" (6.96 M) STROKE | |
|---|---|---|
| PLATE NO. D19.42 | **SIMON AERIALS INC.** NEW 19 JUL., 1994 | PART NO. 04-036600 |

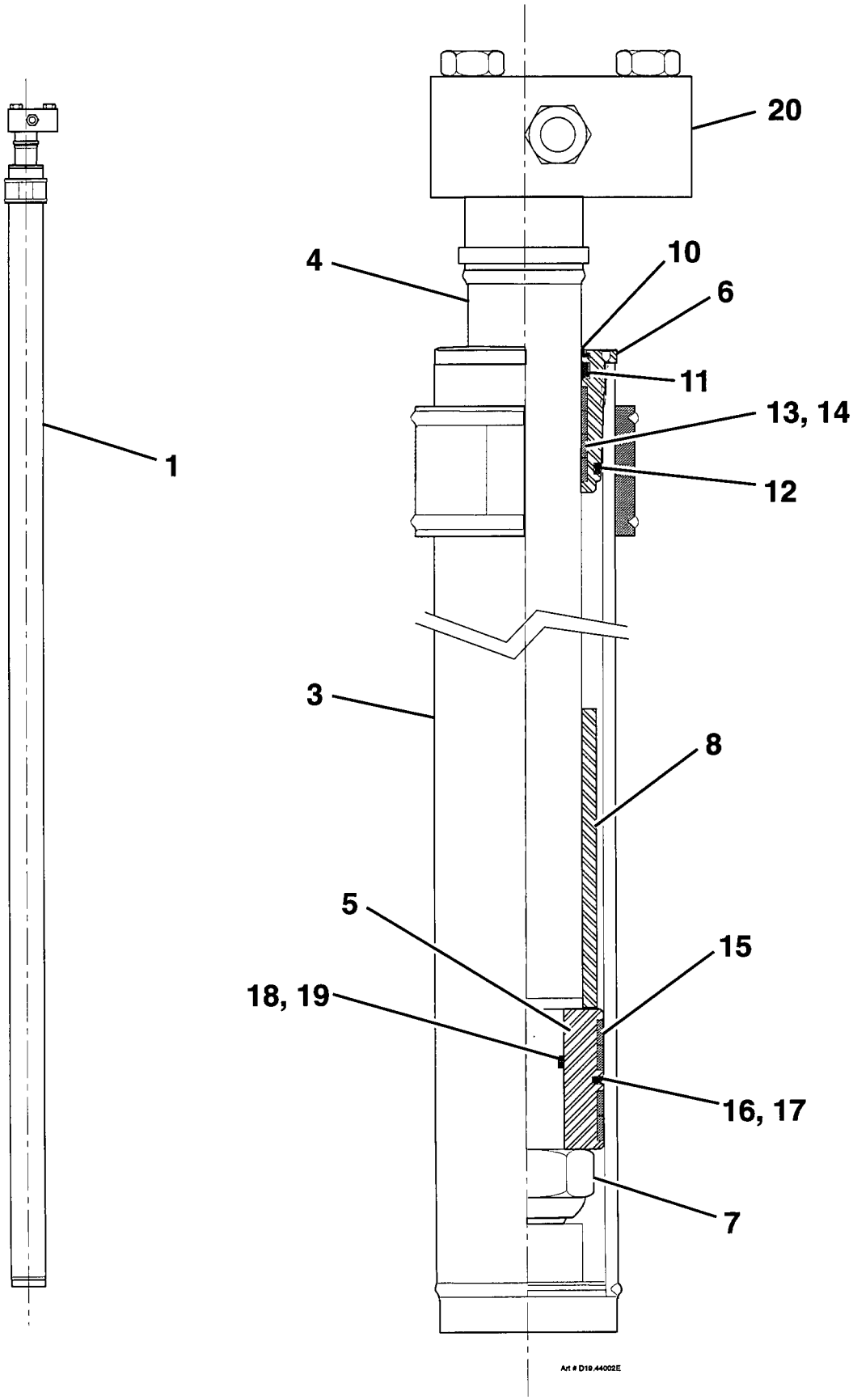



| TITLE | TELESCOPE CYLINDER, 274" (6.96 M) STROKE | | |
|---|---|---|---|
| **SIMON AERIALS INC.** NEW 19 JUL., 1994 | | PART NO. 04-036600 | PLATE NO. D19.42 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | CYLINDER ASSEMBLY, TELESCOPE | 1 |
| 1 | | | CYLINDER, TELESCOPE | 1 |
| 2 | 04-053600 | | CYLINDER, TELESCOPE (Cylinder can be identified by Part Number "540-30162SH" on nameplate located on cylinder case) | 1 |
| 3 | | | CASE, CYLINDER | 1 |
| 4 | | | ROD, CYLINDER | 1 |
| 5 | | | PISTON | 1 |
| 6 | | | GLAND, HEAD | 1 |
| 7 | | | NUT, LOCK | 1 |
| 8 | | | SPACER | 4 |
| 9 | 04-053601 | | SEAL KIT | 1 |
| 10 | | | WIPER, ROD | 1 |
| 11 | | | SEAL, ROD | 1 |
| 12 | | | RING, ROD WEAR | 4 |
| 13 | | | "O"-RING | 1 |
| 14 | | | RING, BACKUP | 1 |
| 15 | | | RING, PISTON WEAR | 4 |
| 16 | | | "O"-RING | 1 |
| 17 | | | SEAL, PISTON | 1 |
| 18 | | | "O"-RING | 1 |
| 19 | | | WASHER, BACKUP | 1 |
| 20 | 04-053602 | | VALVE BLOCK | 1 |
| 21 | | | CAP SCREW, SOCKET HEAD (1/2"-13 x 3-1/2", Grade 8) | 4 |
| 22 | | | "O"-RING | 2 |
| 23 | 04-053603 | | VALVE, COUNTERBALANCE (stamped "CA**EA**-LHN", pre-set to 3000 PSI [206.9 bar] [210.9 Kg/ $cm^2$]) | 1 |
| 24 | 04-053604 | | VALVE, COUNTERBALANCE (stamped "CA**CA**-LHN", pre-set to 3000 PSI [206.9 bar] [210.9 Kg/ $cm^2$]) | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | TELESCOPE CYLINDER ASSEMBLY (PLATE 1 OF 2) | | | |
| PLATE NO. | D19.44 | **SIMON AERIALS INC.** | NEW 04 AUG., 1994 | PART NO. |

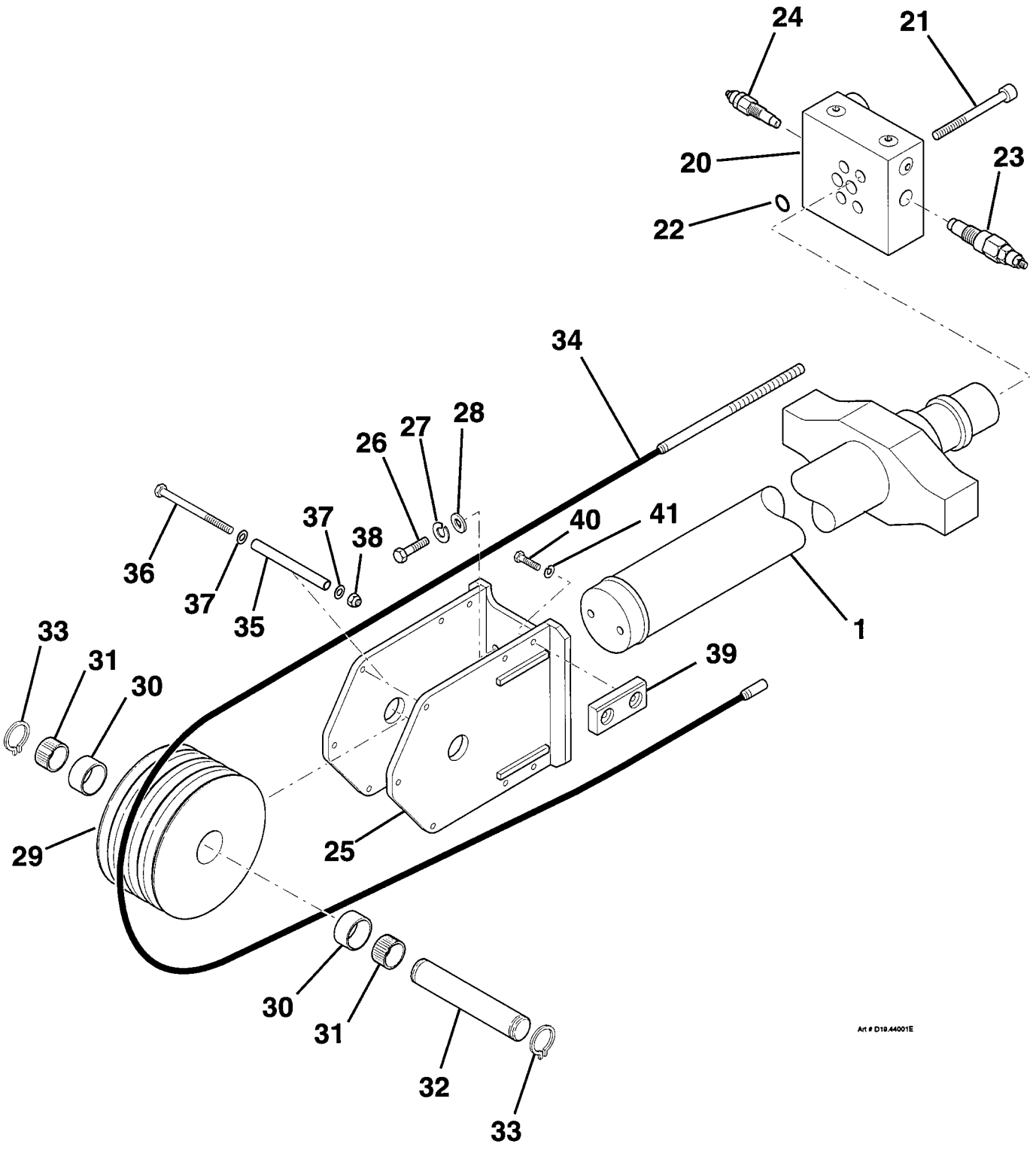



| | | | |
|---|---|---|---|
| TITLE | TELESCOPE CYLINDER ASSEMBLY (PLATE 1 OF 2) | | |
| **SIMON AERIALS INC.** NEW 04 AUG., 1994 | | PART NO. | PLATE NO. D19.44 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 25 | | | BRACKET, EXTEND SHEAVE | 1 |
| 26 | 07-090006 | | CAP SCREW, HEX HEAD (3/4"-10 x 2", Grade 5) | 2 |
| 27 | 07-065022 | | WASHER, HELICAL LOCK (3/4") | 2 |
| 28 | 07-060022 | | WASHER, FLAT (3/4" SAE) | 2 |
| 29 | | | SHEAVE, FOUR ROPE (for 7/16" dia. rope) | 1 |
| 30 | | | RACE, BEARING OUTER | 2 |
| 31 | | | RACE, BEARING INNER | 2 |
| 32 | | | SHAFT, EXTEND SHEAVE (1-3/8" dia.) | 1 |
| 33 | | | RING, RETAINING | 2 |
| 34 | | | WIRE ROPE | 4 |
| 35 | | | SPACER | 3 |
| 36 | | | CAP SCREW, HEX HEAD (5/16"-18 x 5-1/2") | 3 |
| 37 | 07-062015 | | WASHER, FLAT (5/16") | 6 |
| 38 | | | NUT, HEX TOP LOCK (5/16"-18) | 3 |
| 39 | | | PAD, WEAR | 2 |
| 40 | 07-003025 | | CAP SCREW, HEX HEAD (5/16"-18 x 1", Grade 5) | 4 |
| 41 | 07-065015 | | WASHER, HELICAL LOCK (5/16") | 4 |

| | | | |
|---|---|---|---|
| TITLE | TELESCOPE CYLINDER ASSEMBLY (PLATE 2 OF 2) | | |
| PLATE NO. D19.44 | **SIMON AERIALS INC.** | NEW 04 AUG., 1994 | PART NO. |

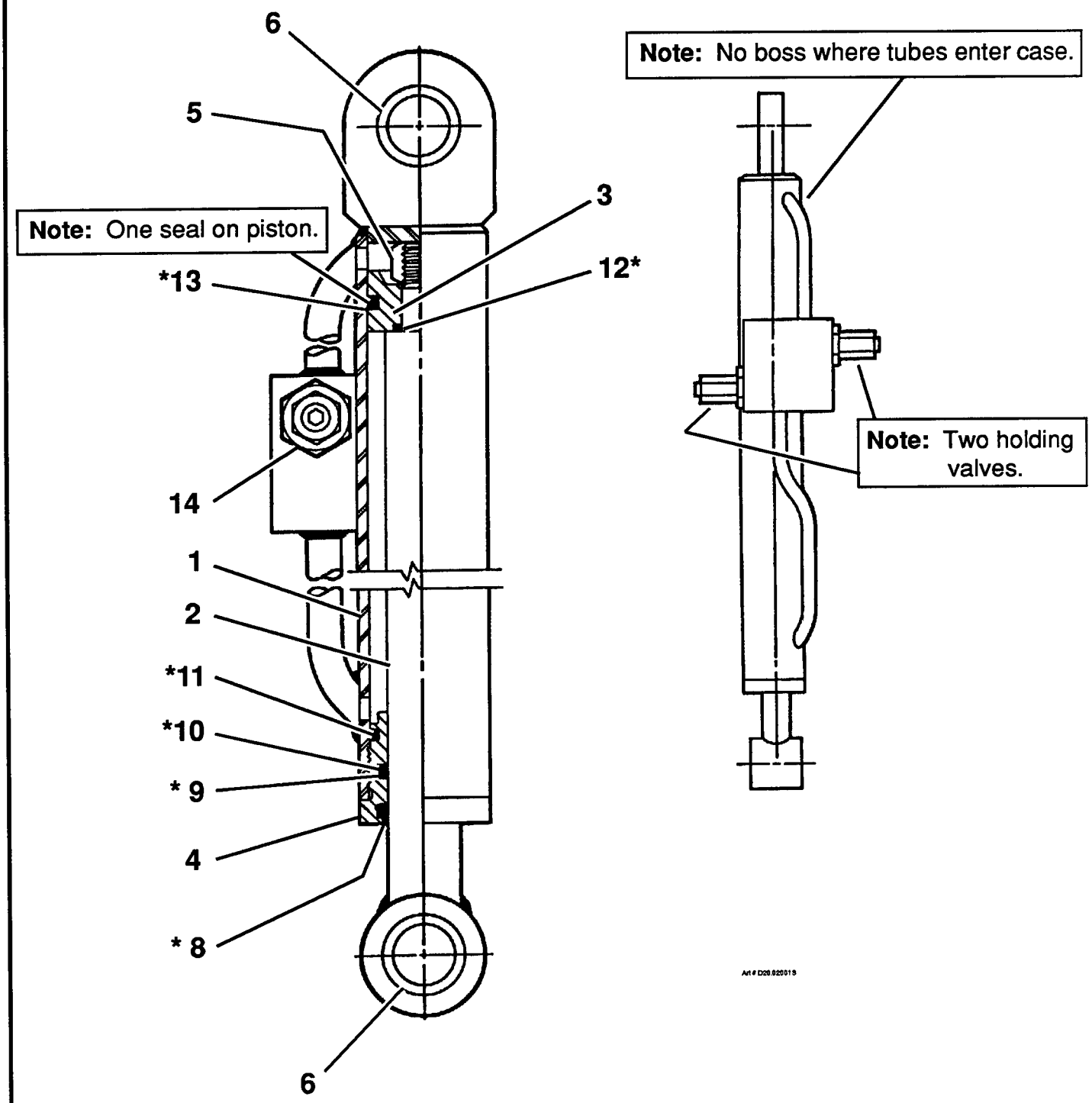



| | | | |
|---|---|---|---|
| TITLE | TELESCOPE CYLINDER ASSEMBLY (PLATE 2 OF 2) | | |
| **SIMON AERIALS INC.** | NEW 04 AUG., 1994 | PART NO. | PLATE NO. D19.44 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | Identifying features of cylinder 04-007300: | |
| | | | 1. No boss where tubes enter case, | |
| | | | 2. Two holding valves, | |
| | | | 3. One seal on piston. | |
| 1 | | | CASE, CYLINDER | 1 |
| 2 | 04-004501 | | ROD, CYLINDER | 1 |
| 3 | | | PISTON | 1 |
| 4 | | | GLAND, HEAD | 1 |
| 5 | | | NUT, PISTON ROD (3/4"-16) | 1 |
| 6 | 04-007102 | | BUSHING | 3 |
| 7 | 04-007101 | | SEAL KIT (not for use with water-glycol hydraulic fluid) | 1 |
| | | | **Note:** Items in kit identified by asterisk (*). | |
| 8 | | | WIPER, ROD | 1 |
| 9 | | | "O"-RING | 1 |
| 10 | | | WASHER, BACKUP | 1 |
| 11 | | | "O"-RING | 1 |
| 12 | | | SEAL | 1 |
| 13 | | | SEAL, PISTON | 1 |
| | | | The following items **are not** part of the cylinder assembly: | |
| 14 | 01-032500 | D21.01 | VALVE, HOLDING | 2 |

| | | | | |
|---|---|---|---|---|
| TITLE | SLAVE LEVELING CYLINDER, 17.8" (.45 M) STROKE | | | |
| PLATE NO. | D20.02 | **SIMON AERIALS INC.** | REV. 05/02/91 | PART NO. 04-007300 |

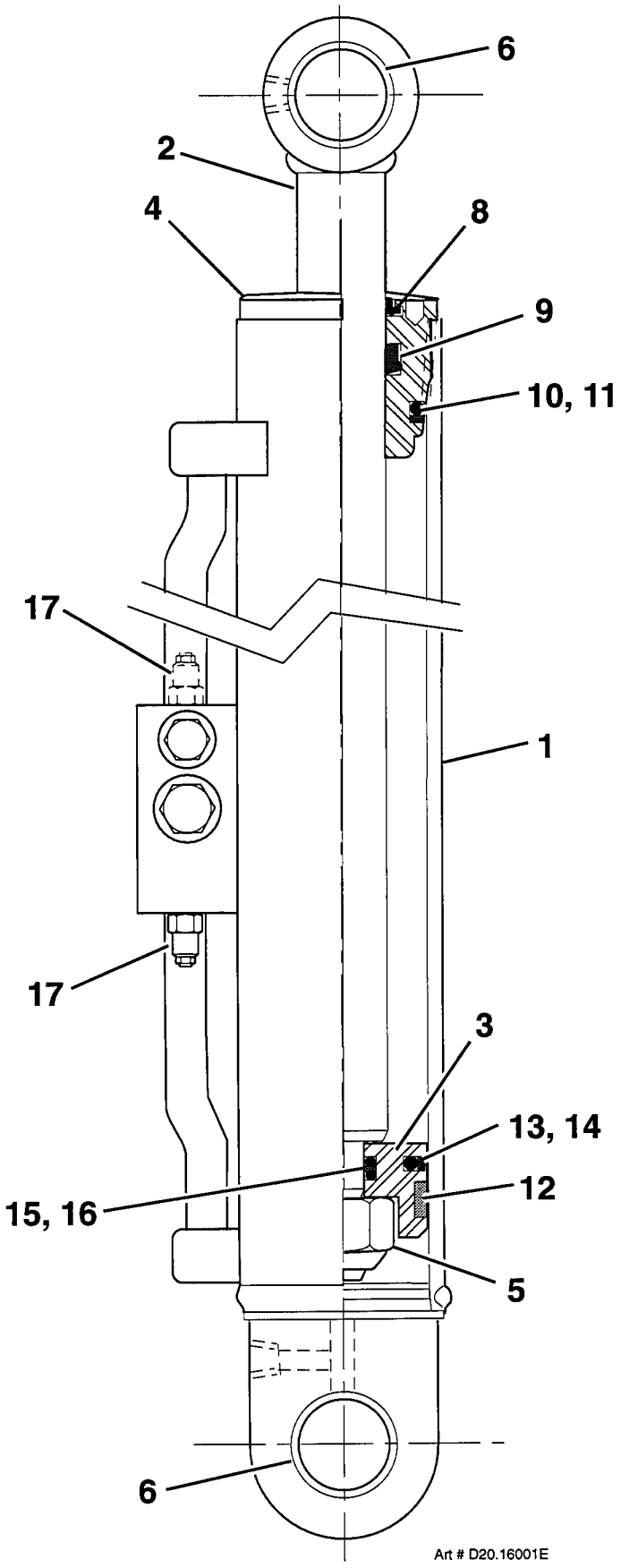



| TITLE | SLAVE LEVELING CYLINDER, 17.8" (.45 M) STROKE | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 05/02/91 | PART NO. 04-007300 | PLATE NO. D20.02 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | Cylinder can be identified by Part Number "04035400SH" on nameplate located on valve block. | |
| 1 | | | CASE, CYLINDER | 1 |
| 2 | | | ROD, CYLINDER | 1 |
| 3 | | | PISTON | 1 |
| 4 | | | GLAND, HEAD | 1 |
| 5 | | | NUT, LOCK | 1 |
| 6 | 04-035401 | | BUSHING | 4 |
| 7 | 04-032601 | | SEAL KIT | 1 |
| 8 | | | WIPER, ROD | 1 |
| 9 | | | SEAL, ROD | 1 |
| 10 | | | "O"-RING | 1 |
| 11 | | | RING, BACKUP | 1 |
| 12 | | | RING, PISTON WEAR | 1 |
| 13 | | | "O"-RING | 1 |
| 14 | | | SEAL, PISTON | 1 |
| 15 | | | "O"-RING | 1 |
| 16 | | | WASHER, BACKUP | 1 |
| 17 | | | VALVE, COUNTERBALANCE | |
| | 04-028302 | | Type 1 (Valve is stamped "CB-C**G**-L**J**N") | 2 |
| | 01-227200 | | Type 2 [Valve is stamped "CB-C**B**-L**H**N", and set at 3,000 PSI (207 Bar) (211 Kg/ $cm^2$)] | 2 |
| | | | **Note:** "Type 1" and "Type 2" valves are directly interchangeable, but **must be replaced in pairs.** When ordering a replacement valve, **(2) of "Type 2"** will be supplied unless otherwise specified. | |
| 18 | | | SEAL KIT, COUNTERBALANCE VALVE | |
| | 04-028303 | | (for "Type 1" Valve) | 1 |
| | 01-227201 | | (for "Type 2" Valve) | 1 |

| | | | |
|---|---|---|---|
| TITLE | SLAVE LEVEL CYLINDER, 17-3/4" (.45 M) STROKE | | |
| PLATE NO. D20.16 | **SIMON AERIALS INC.** | NEW 27 APR., 1994 | PART NO. 04-035400 |




| TITLE | SLAVE LEVEL CYLINDER, 17-3/4" (.45 M) STROKE | | |
|---|---|---|---|
| **SIMON AERIALS INC.** NEW 27 APR., 1994 | | PART NO. 04-035400 | PLATE NO. D20.16 |

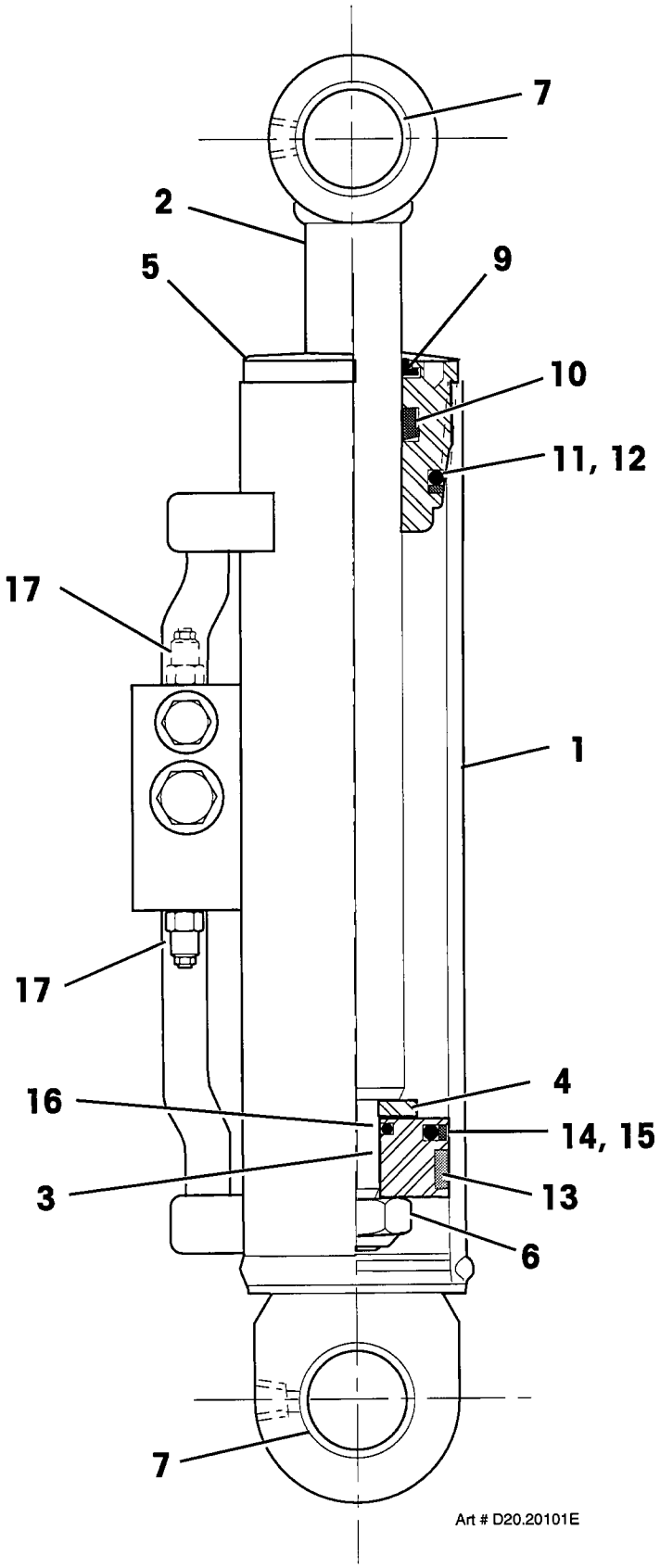
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | Cylinder can be identified by Part Number "04039000SH" on nameplate located on valve block. | |
| 1 | | | CASE, CYLINDER | 1 |
| 2 | | | ROD, CYLINDER | 1 |
| 3 | | | PISTON | 1 |
| 4 | | | SPACER | 1 |
| 5 | | | GLAND, HEAD | 1 |
| 6 | | | NUT, LOCK | 1 |
| 7 | | | BUSHING | 4 |
| 8 | 04-039001 | | SEAL KIT | 1 |
| 9 | | | WIPER, ROD | 1 |
| 10 | | | SEAL, ROD | 1 |
| 11 | | | "O"-RING | 1 |
| 12 | | | RING, BACKUP | 1 |
| 13 | | | RING, PISTON WEAR | 1 |
| 14 | | | "O"-RING | 1 |
| 15 | | | SEAL, PISTON | 1 |
| 16 | | | "O"-RING | 1 |
| 17 | | | VALVE, COUNTERBALANCE | |
| | 04-028302 | | Type 1 (Valve is stamped "CB-C**G**-LJN") | 2 |
| | 01-227200 | | Type 2 (Valve is stamped "CB-C**B**-LH**N**", and set at 3,000 PSI [207 Bar] [211 Kg/ $cm^2$]) | 2 |
| | | | **Note:** "Type 1" and "Type 2" valves are directly interchangeable, but **must be replaced in pairs.** When ordering a replacement valve, **(2) of "Type 2"** will be supplied unless otherwise specified. | |
| 18 | | | SEAL KIT, COUNTERBALANCE VALVE | |
| | 04-028303 | | for "Type 1" Valve | 1 |
| | 01-227201 | | for "Type 2" Valve | 1 |

TITLE SLAVE LEVEL CYLINDER, 7" (17.8 CM) STROKE

SECTION D20. | PLATE NO. 201 | PAGE 01 | REV. - | DATED 22 JUN., 1994 | PART NO. 04-039000

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172




Art # D20.20101E

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172

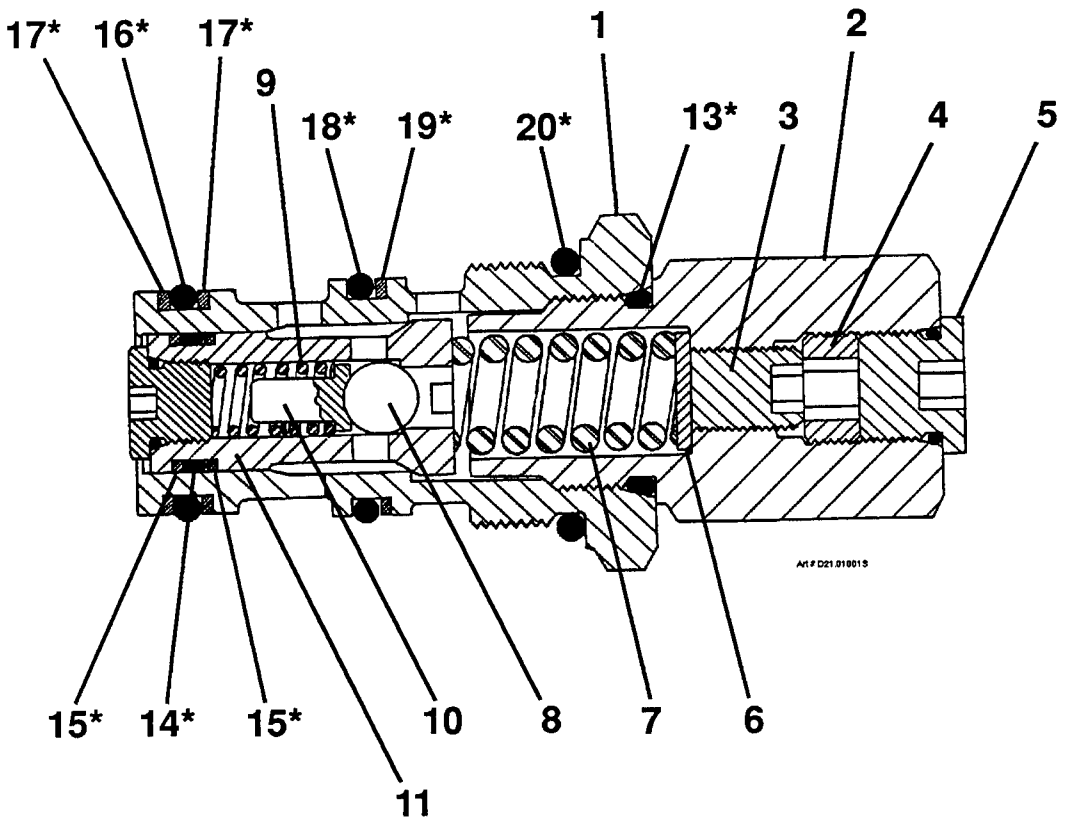
TITLE: SLAVE LEVEL CYLINDER, 7" (17.8 CM) STROKE

| PART NO. | REV. | DATED | SECTION | PLATE NO. | PAGE |
|---|---|---|---|---|---|
| 04-039000 | - | 22 JUN., 1994 | D20. | 201 | 01 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | BODY, VALVE | 1 |
| 2 | | | CAP, HOLDING VALVE | 1 |
| 3 | | | SCREW, ADJUSTING | 1 |
| 4 | | | SCREW, LOCK | 1 |
| 5 | | | PLUG | 1 |
| 6 | | | WASHER | 1 |
| 7 | | | SPRING | 1 |
| 8 | | | BALL, CHECK | 1 |
| 9 | | | SPRING | 1 |
| 10 | | | PIN, STOP | 1 |
| 11 | | | SPOOL, PILOT | 1 |
| 12 | 01-032501 | | SEAL KIT | 1 |
| | | | **Note:** Items in kit identified by asterisk (*). | |
| 13 | | | "O"-RING | 1 |
| 14 | | | "O"-RING | 1 |
| 15 | | | RING, BACKUP | 2 |
| 16 | | | "O"-RING | 1 |
| 17 | | | RING, BACKUP | 2 |
| 18 | | | "O"-RING | 1 |
| 19 | | | RING, BACKUP | 1 |
| 20 | | | "O"-RING | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | HOLDING VALVE, SLAVE LEVELING CYLINDER | | | |
| PLATE NO. | D21.01 | **SIMON AERIALS INC.** | REV. 05/02/91 | PART NO. 01-032500 |

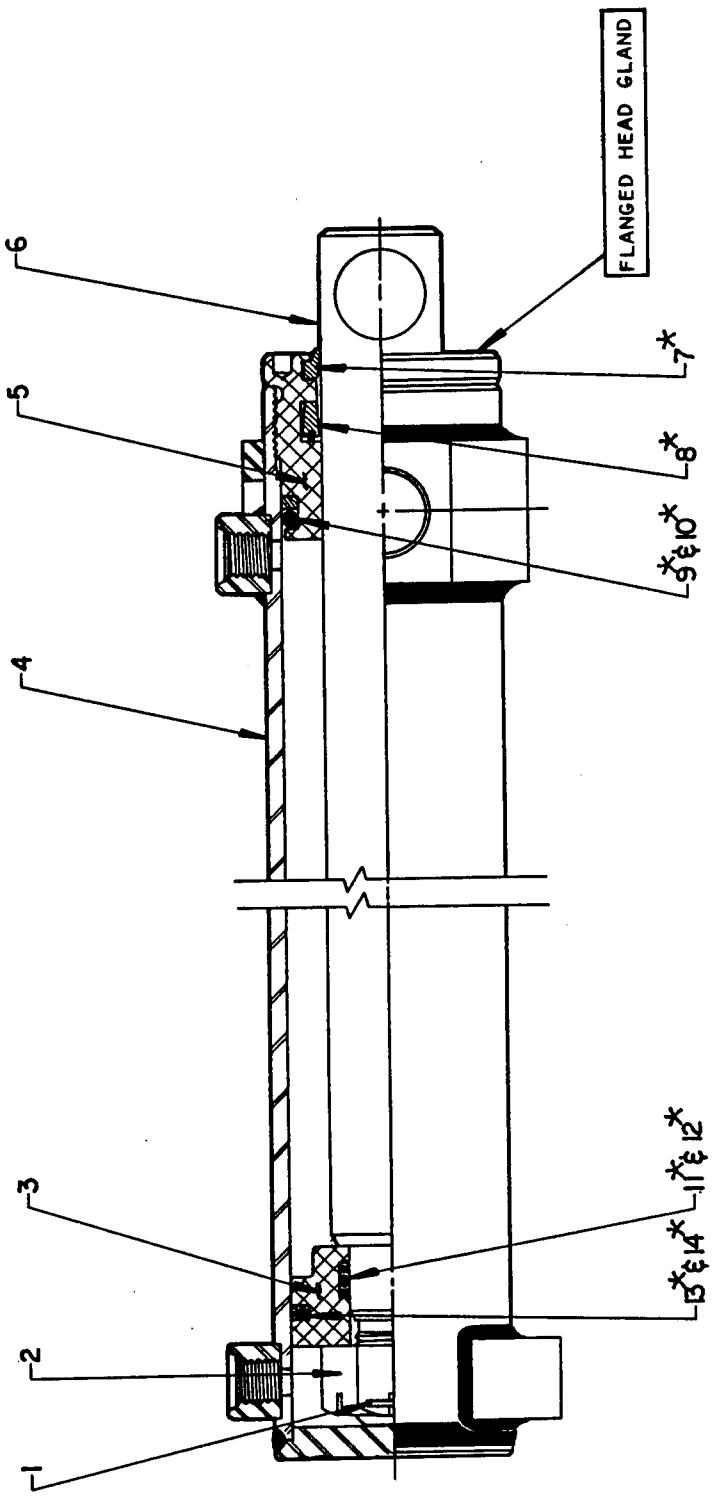


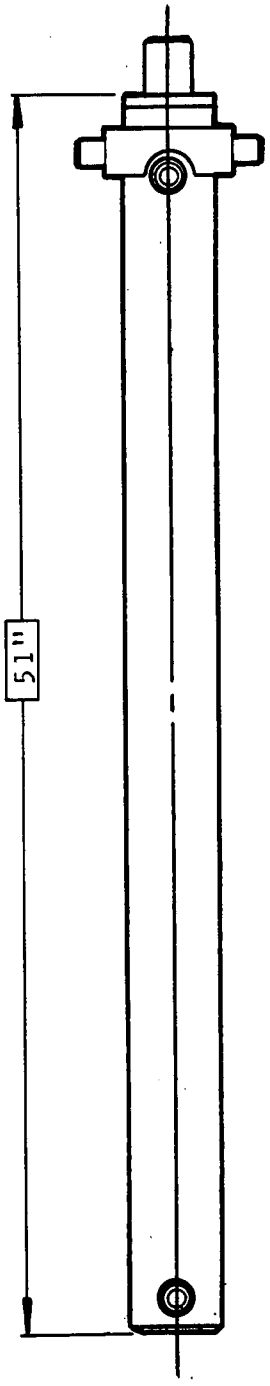

| TITLE | HOLDING VALVE, SLAVE LEVELING CYLINDER | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 05/02/91 | PART NO. 01-032500 | PLATE NO. D21.01 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | COTTER KEY | 1 |
| 2 | | | PISTON NUT | 1 |
| 3 | | | PISTON | 1 |
| 4 | | | CASE | 1 |
| 5 | 04-000601 | | HEAD GLAND | 1 |
| 6 | 04-000602 | | ROD | 1 |
| 7 * | | | WIPER | 1 |
| 8 * | | | ROD SEAL | 1 |
| 9 * | | | 'O' RING | 1 |
| 10 * | | | BACK-UP RING | 1 |
| 11 * | | | 'O' RING | 1 |
| 12 * | | | BACK-UP RING | 2 |
| 13 * | | | 'O' RING | 1 |
| 14 * | | | PISTON SEAL | 1 |
| * | 04-000501 | | SEAL KIT | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| AXLE EXTEND CYLINDER | 04-000600 |




NOTE:
* SEAL KIT P/N 04-000501

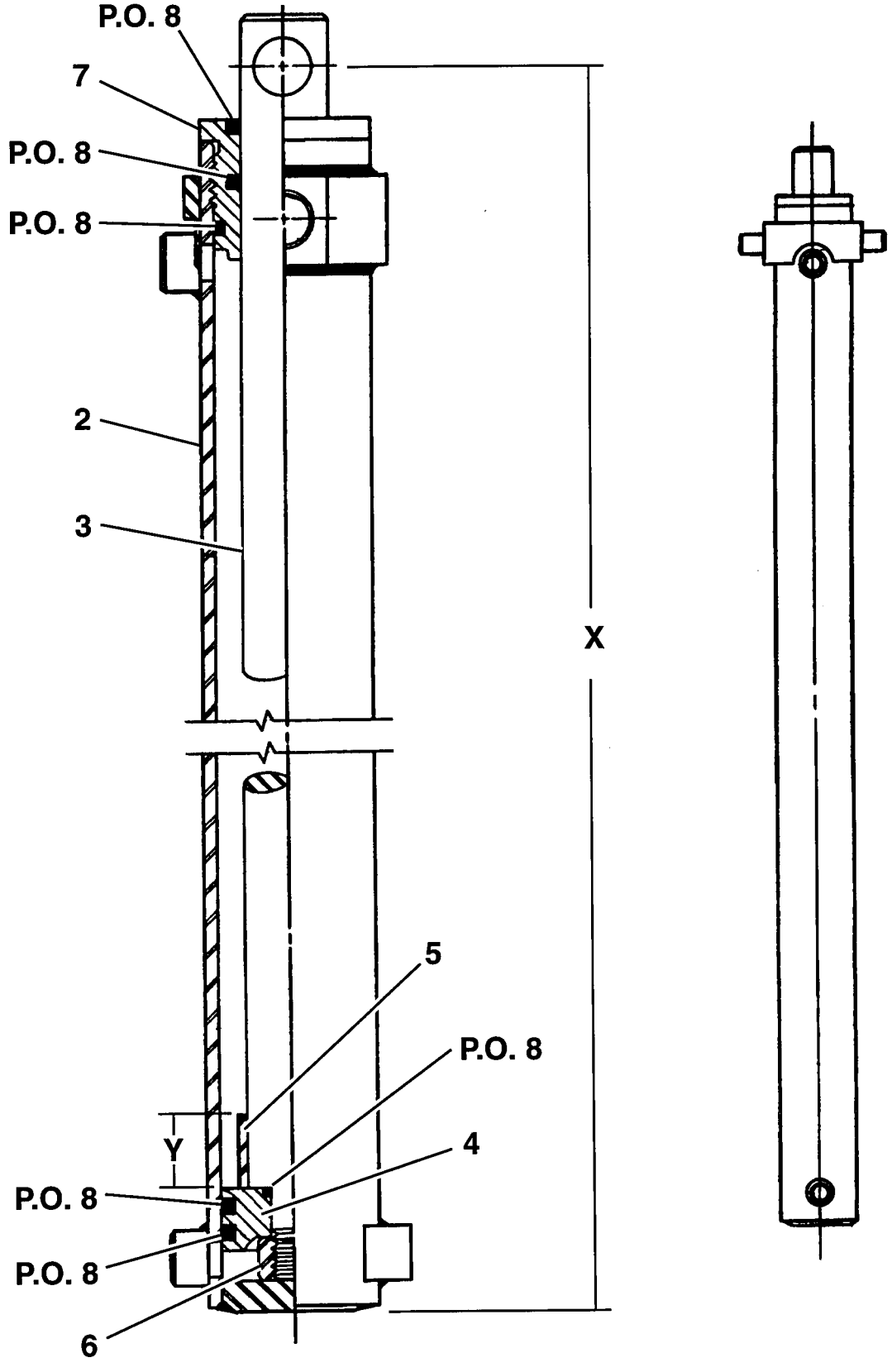
0585/0278

| DESCRIPTION | PART NO. |
|---|---|
| AXLE EXTEND CYLINDER | 04-000600 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 04-005100 | | CYLINDER ASSEMBLY, AXLE EXTEND<br>Cylinder has 44" (1.12 M) stroke.<br>Ref. length "X" = 49-7/8" (1.27 M) fully retracted. | |
| | | | **Note:** This cylinder used on MPE 60, MP 80, MPE 95, MP 110 and RP 120 models except as listed below. It replaces earlier cylinders 04-000800 (Parts plate D22.4), 04-000600 (Plate D22.1) and 04-002700 (Plate D22.02). | 1 |
| | 04-007000 | | Cylinder has 34" (.86 M) stroke.<br>Ref. length "X" = 40-3/8" (1.03 M) fully retracted. | |
| | | | **Note:** This cylinder was used on **some** earlier versions of the MP 110. | 1 |
| 2 | | | CASE, CYLINDER (Tube weldment) | 1 |
| 3 | | | ROD, CYLINDER (Shaft) | 1 |
| 4 | | | PISTON | 1 |
| 5 | | | SPACER (Stroke block)<br>Length "Y" = 3/4" (19 mm), used on cylinder 04-005100<br>Length "Y" = 1-1/4" (32 mm), for cylinder 04-007000 | <br>1<br>1 |
| 6 | | | NUT, PISTON (3/4"-16 locknut) | 1 |
| 7 | | | GLAND, HEAD (End gland) | 1 |
| 8 | 04-005101 | | SEAL KIT | 1 |

| TITLE | AXLE EXTEND CYLINDER | |
|---|---|---|
| PLATE NO. D22.03 | **SIMON AERIALS INC.** REV. 07 JUN., 1994 | PART NO. |



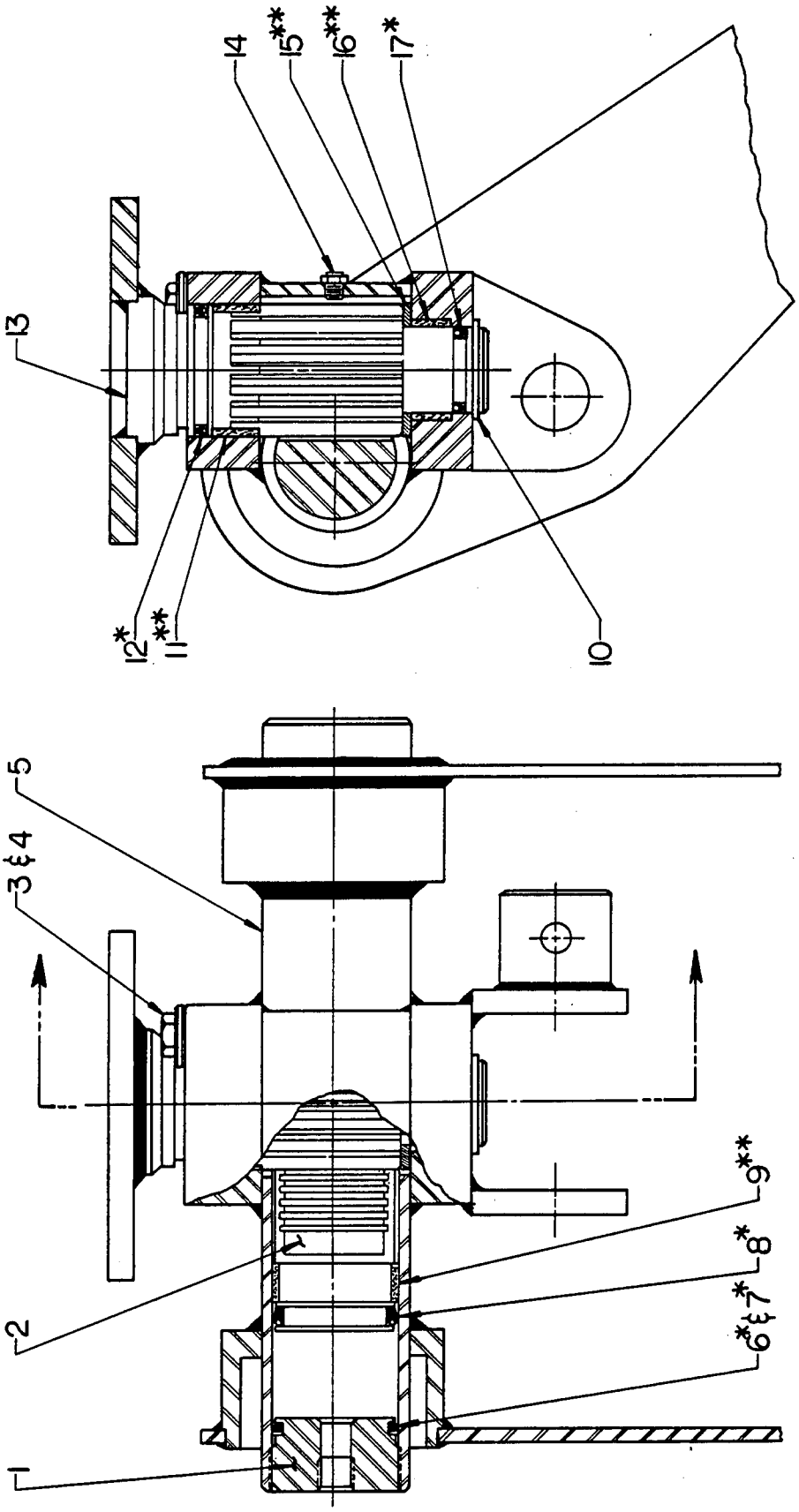

Note Double
Piston Seal

| TITLE | AXLE EXTEND CYLINDER | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 07 JUN., 1994 | | PART NO. | PLATE NO. D22.03 |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | END CAP | 2 |
| 2 | 02-004904 | | RACK | 1 |
| 3 | | | SAFETY BOLT | 1 |
| 4 | | | SAFETY WASHER | 1 |
| 5* | | | HOUSING | 1 |
| 6 | | | "O"-RING | 2 |
| 7* | | | BACK-UP RING | 2 |
| 8* | | | RACK SEAL | 2 |
| 9** | | | RACK WEARSTRIP | 2 |
| 10 | | | SNAP RING | 1 |
| 11** | | | PINION SHAFT WEARSTRIP | 1 |
| 12* | | | PINION SHAFT SEAL | 1 |
| 13 | 02-04903 | | PINION | 1 |
| 14 | | | RELIEF VALVE | 1 |
| 15** | | | THRUST RING | 1 |
| 16** | | | PINION SHAFT WEARSTRIP | 1 |
| 17* | | | PINION SHAFT SEAL | |
| * | 02-004901 | | SEAL KIT | 1 |
| ** | 02-004902 | | BEARING KIT | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| PLATFORM ROTARY ACTUATOR | SDW-207045-4 |




NOTE:
SEAL KIT P/ N 02-004901
BEARING KIT P/N 02-004902

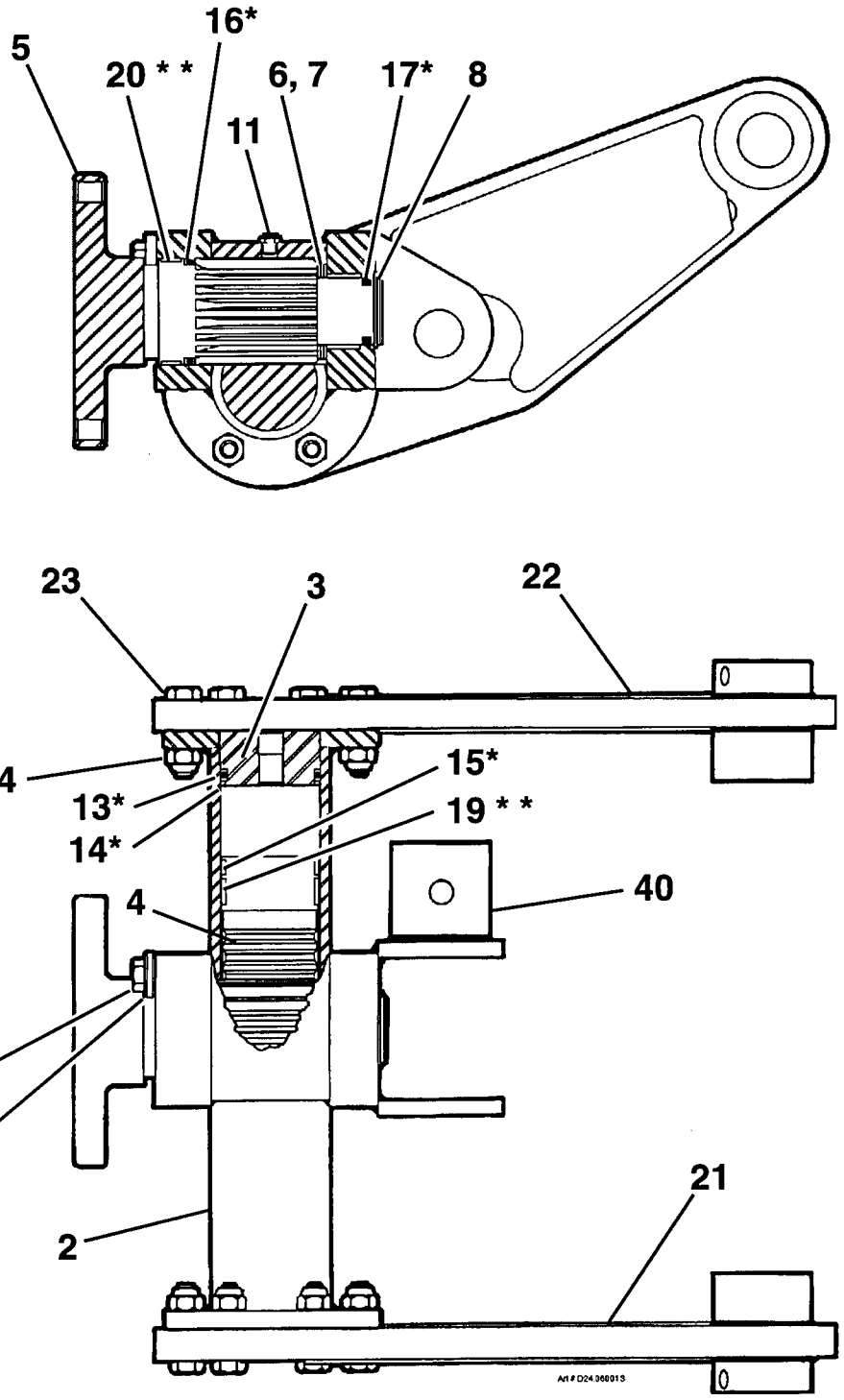
0584/0384

| DESCRIPTION | PART NO. |
|---|---|
| PLATFORM ROTARY ACTUATOR | SDW-207045-4 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | ACTUATOR ASSEMBLY, ROTARY (includes "Type 1" arms) | |
| | | | ["Type 1" arms are 1" (25.4 mm) thick steel, and have a large cutout covered by metal plates on each side.] | 1 |
| | 3523560 | | for MP series with "bent tip" boom | |
| | 3523570 | | for MP series with "straight tip" boom | |
| | 3525120 | | for MPN series with "bent tip" boom | |
| | 3523580 | | for MPN series with "straight tip" boom | |
| | | | ACTUATOR ASSEMBLY, ROTARY (includes "Type 2" arms) | |
| | | | ["Type 2" arms are 3/4" (19 mm) thick steel, and have a small cutout on the side which is not covered.] | 1 |
| | 3530020 | | for MP series with "bent tip" boom | |
| | 3530030 | | for MP series with "straight tip" boom | |
| | 3530040 | | for MPN series with "straight tip" boom | |
| 1 | 02-010600 | | ACTUATOR ASSEMBLY, ROTARY (without arms) | 1 |
| 2 | 02-010605 | | HOUSING, ROTARY ACTUATOR | 1 |
| 3 | 02-010612 | | CAP, END | 2 |
| 4 | 02-010609 | | RACK | 1 |
| 5 | 02-010607 | | SHAFT, PINION | 1 |
| 6 | 02-010604 | | WASHER | 4 |
| 7 | 02-010603 | | BEARING, NEEDLE | 2 |
| 8 | 02-010608 | | SNAP RING | 1 |
| 9 | | | BOLT, SAFETY | 1 |
| 10 | | | WASHER, SAFETY | 1 |
| 11 | 02-010606 | | VALVE, RELIEF | 1 |
| 12 | | | SEAL KIT | |
| | 02-010601 | | for actuators with serial number below 13233. | 1 |
| | 02-010610 | | for actuators with serial number 13233 and up. | 1 |
| | | | **Note:** These seal kits not for water-glycol fluid. Items in seal kit are identified by asterisk (*). | |
| 13 | | | "O"-RING | 2 |
| 14 | | | RING, BACK-UP | 2 |
| 15 | | | SEAL, RACK | 2 |
| 16 | | | SEAL, PINION SHAFT (upper) | 1 |
| 17 | | | SEAL, PINION SHAFT (lower) | 1 |
| 18 | | | BEARING KIT | |
| | 02-010602 | | for actuators with serial number below 13233. | 1 |
| | 02-010611 | | for actuators with serial number 13233 and up. | 1 |
| | | | **Note:** Items in kit identified by double asterisk (* *). | |
| 19 | | | WEAR STRIP, RACK | 2 |
| 20 | | | WEAR STRIP, PINION SHAFT | 1 |

| | | | | | |
|---|---|---|---|---|---|
| TITLE | PLATFORM ROTARY ACTUATOR (PLATE 1 OF 3) | | | | |
| PLATE NO. | D24.06 | **SIMON AERIALS INC.** | REV. 02 MAY, 1994 | PART NO. | 02-010600 |

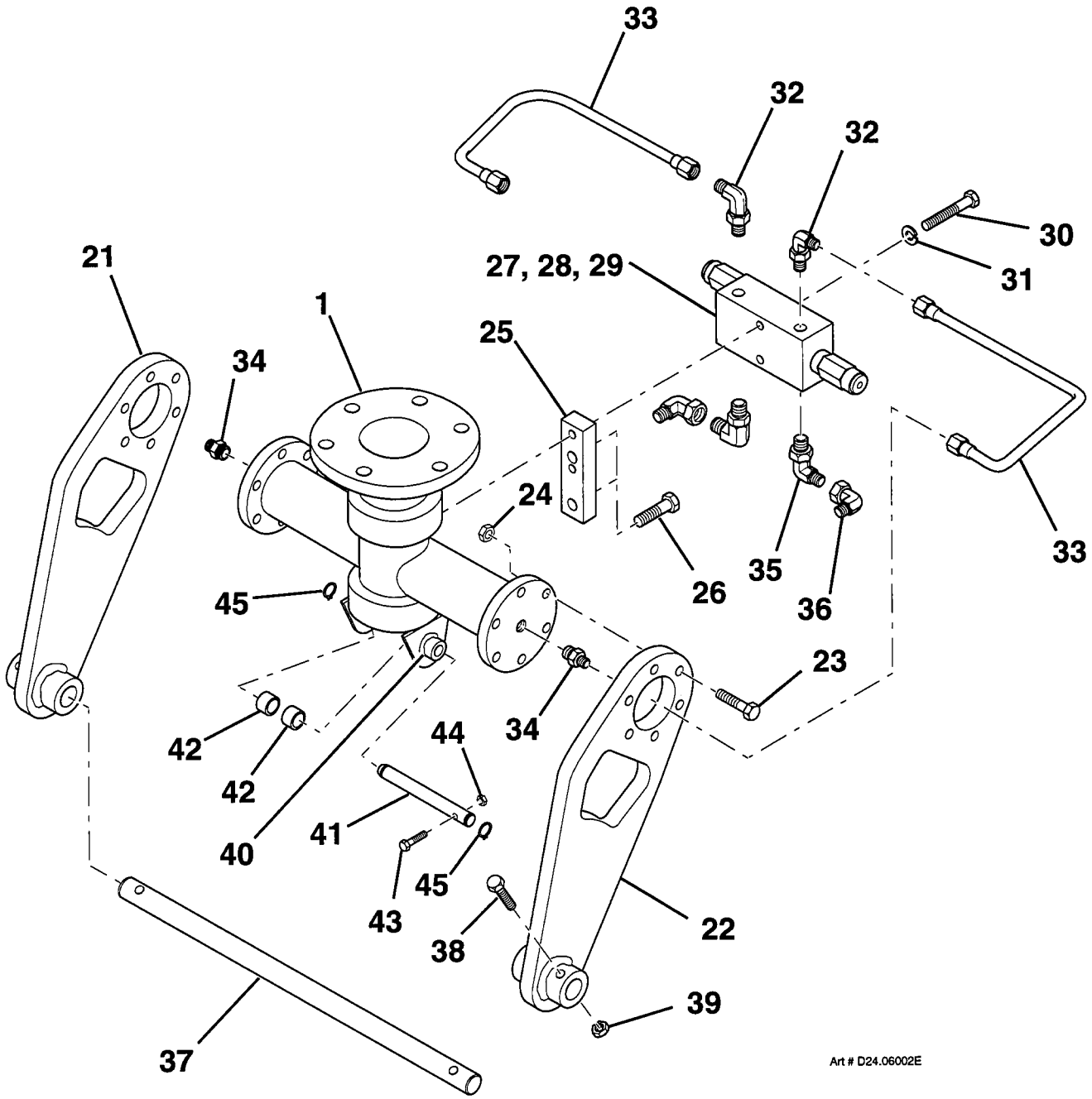



| TITLE | PLATFORM ROTARY ACTUATOR (PLATE 1 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 22 NOV., 1994 THIS SHEET ONLY | PART NO. 02-010600 | PLATE NO. D24.06 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 21 | | | ARM, ROTARY ACTUATOR (right) ("Type 1") | |
| | | | ["Type 1" arms are 1" (25.4 mm) thick steel, and have a large cutout covered by metal plates on each side.] | |
| | | | **Note:** "Type 1" arms are illustrated on previous page. | 1 |
| | 2103090 | | MP series with "bent tip" boom | 1 |
| | 2109500 | | MP series with "straight tip" boom | 1 |
| | 2103330 | | MPN series with "bent tip" boom | 1 |
| | 2109590 | | MPN series with "straight tip" boom | 1 |
| | | | ARM, ROTARY ACTUATOR (right) ("Type 2") | |
| | | | ["Type 2" arms are 3/4" (19 mm) thick steel, and have a small cutout on the side which is not covered.] | |
| | | | **Note:** "Type 2" arms are illustrated on facing page. | 1 |
| | 2199260 | | MP series with "bent tip" boom | 1 |
| | 2300660 | | MP series with "straight tip" boom | 1 |
| | 2191370 | | MPN series with "straight tip" boom | 1 |
| 22 | | | ARM, ROTARY ACTUATOR (left) ("Type 1") | |
| | | | ["Type 1" arms are 1" (25.4 mm) thick steel, and have a large cutout covered by metal plates on each side.] | |
| | | | **Note:** "Type 1" arms are illustrated on previous page. | 1 |
| | 2103010 | | MP series with "bent tip" boom | 1 |
| | 2109510 | | MP series with "straight tip" boom | 1 |
| | 2103320 | | MPN series with "bent tip" boom | 1 |
| | 2109580 | | MPN series with "straight tip" boom | 1 |
| | | | ARM, ROTARY ACTUATOR (left) ("Type 2") | |
| | | | ["Type 2" arms are 3/4" (19 mm) thick steel, and have a small cutout on the side which is not covered.] | |
| | | | **Note:** "Type 2" arms are illustrated on facing page. | 1 |
| | 2199270 | | MP series with "bent tip" boom | 1 |
| | 2300670 | | MP series with "straight tip" boom | 1 |
| | 2191380 | | MPN series with "straight tip" boom | 1 |

| | | | | |
|---|---|---|---|---|
| **TITLE** | PLATFORM ROTARY ACTUATOR (PLATE 2 OF 3) | | | |
| **PLATE NO.** D24.06 | **SIMON AERIALS INC.** | REV. 02 MAY, 1994 | **PART NO.** | 02-010600 |

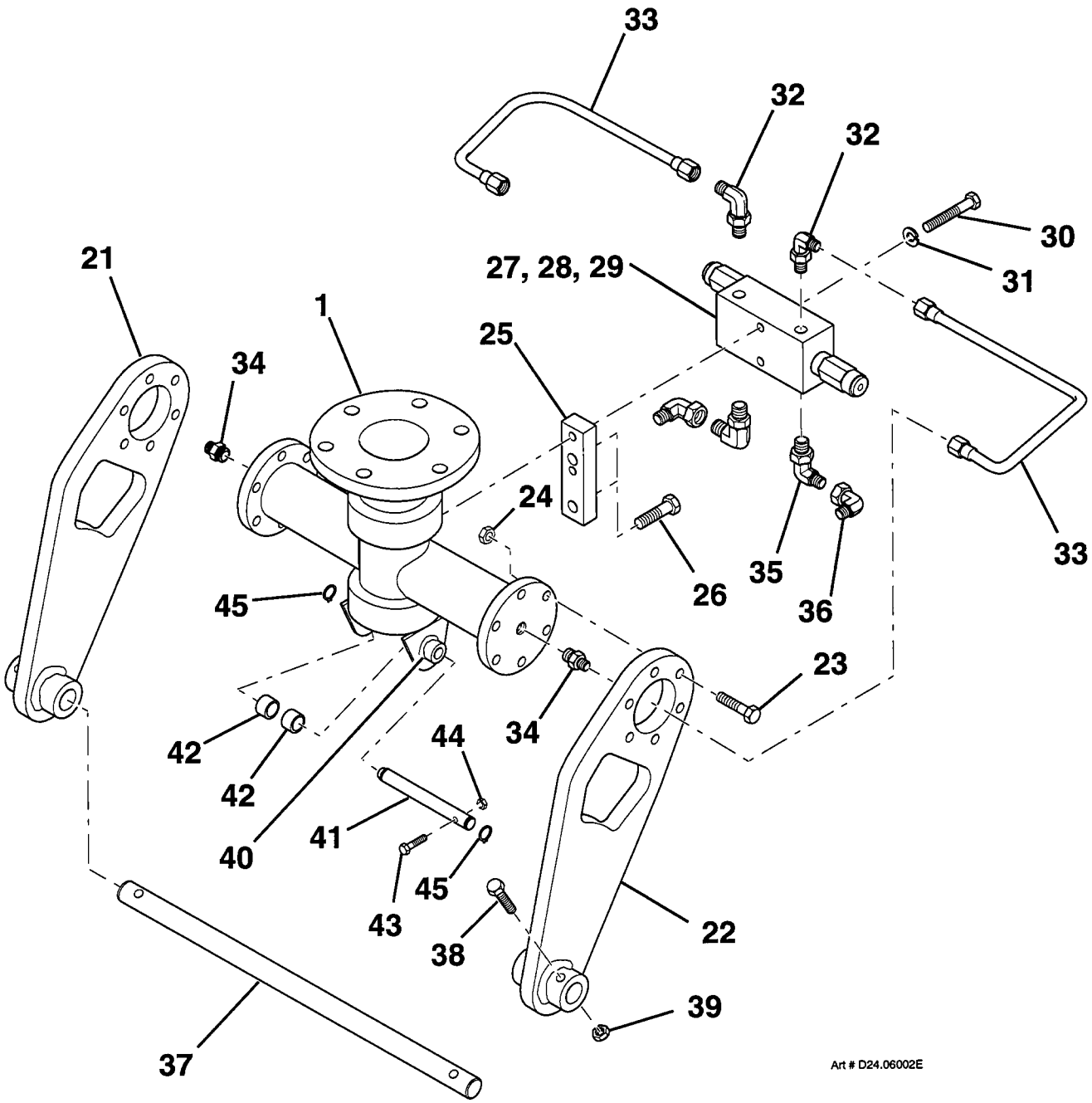



| TITLE | PLATFORM ROTARY ACTUATOR (PLATE 2 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 02 MAY, 1994 | PART NO. 02-010600 | PLATE NO. D24.06 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 23 | | | CAP SCREW, HEX HEAD | |
| | 07-003090 | | (1/2"-13 x 2-1/4", Grade 5. For "Type 1" arm) | 12 |
| | 07-003089 | | (1/2"-13 x 2", Grade 5. For "Type 2" arm) | 12 |
| 24 | 07-058400 | | NUT, HEX LOCK (1/2"-13, Grade 8) | 12 |
| 25 | 2111850 | | SPACER, RELIEF/ CHECK VALVE MOUNTING | 1 |
| 26 | 07-008043 | | CAP SCREW, SOCKET HEAD (3/8"-16 x 3/4", Grade 8) | 2 |
| 27 | 01-202000 | | MANIFOLD, RELIEF/ CHECK VALVE | 1 |
| 28 | 01-202001 | | CARTRIDGE, RELIEF VALVE | 1 |
| 29 | 01-202002 | | CARTRIDGE, CHECK VALVE | 1 |
| 30 | 07-003049 | | CAP SCREW, HEX HEAD (3/8"-16 x 2", Grade 5) **Or** | 2 |
| | 07-003052 | | CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5) **Or** | 2 |
| | 07-003053 | | CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5) | 2 |
| 31 | 07-065016 | | WASHER, HELICAL LOCK (3/8") | 2 |
| 32 | 06-044600 | | 90° ELBOW, STRAIGHT THREAD (6 C50X-S) | 2 |
| 33 | 3530460 | | TUBE ASSEMBLY | 2 |
| 34 | 06-039900 | | ADAPTER, "O"-RING TO 37° (6-8 F50X-S) | 2 |
| 35 | 06-044400 | | 90° ELBOW, STRAIGHT THREAD (4-66 C50X-S) | 2 |
| 36 | 06-051300 | | 90° ELBOW, SWIVEL NUT (4 C6X-S) | 2 |
| 37 | | | PIN, PLATFORM PIVOT (1-1/4" x 20") | |
| | 2102940 | | except Canada | 1 |
| | 2194480 | | CSA standards | 1 |
| 38 | 07-003049 | | CAP SCREW, HEX HEAD (3/8"-16 x 2", Grade 5) **Or** | 2 |
| | 07-003052 | | CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5) **Or** | 2 |
| | 07-003053 | | CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5) | 2 |
| 39 | 07-050016 | | NUT, HEX LOCK (3/8"-1, Grade 5) | 2 |
| 40 | 2080459 | | TUBE, PIN RETAINER | 1 |
| 41 | | | PIN, SLAVE CYLINDER (Rod end) (1-1/4" x 4-7/8") | |
| | 2068884 | | except Canada | 1 |
| | 2194500 | | CSA standards | 1 |
| 42 | 2068444 | | SPACER, SLAVE CYLINDER | 2 |
| 43 | 07-003093 | | CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5) | 1 |
| 44 | 07-058400 | | NUT, HEX LOCK (1/2"-13, Grade 8) | 1 |
| 45 | 08-040700 | | RING, SNAP (1-1/4") | 2 |

| | | | | |
|---|---|---|---|---|
| **TITLE** | PLATFORM ROTARY ACTUATOR (PLATE 3 OF 3) | | | |
| **PLATE NO.** D24.06 | **SIMON AERIALS INC.** | REV. 22 NOV., 1994 THIS SHEET ONLY | **PART NO.** | 02-010600 |




| TITLE | PLATFORM ROTARY ACTUATOR (PLATE 3 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 02 MAY, 1994 | PART NO. 02-010600 | PLATE NO. D24.06 | |

# PARTS LIST

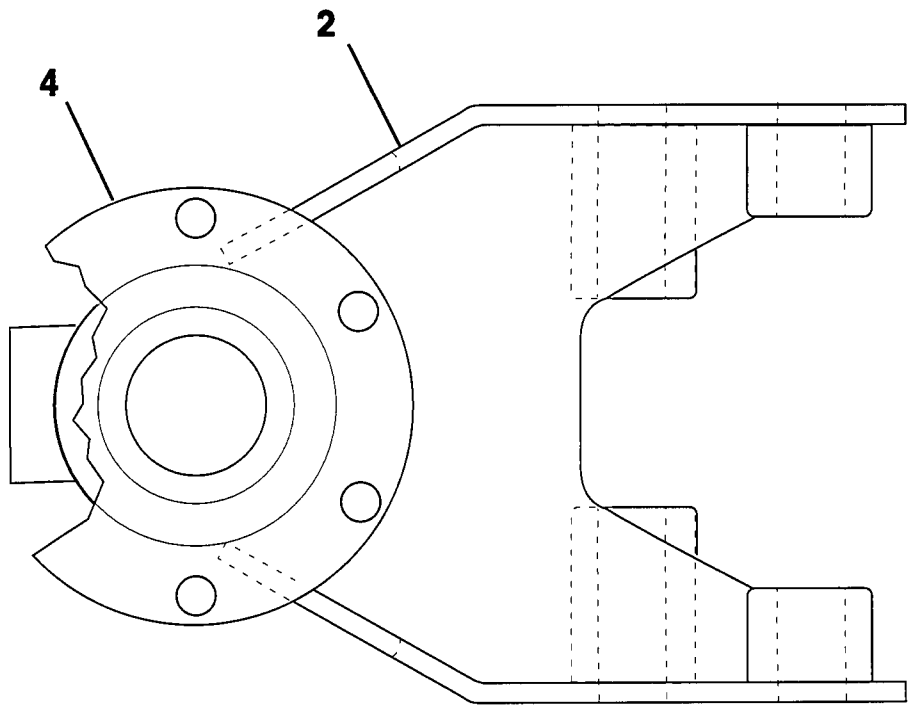
| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 02-042700 | | ACTUATOR ASSEMBLY, ROTARY | 1 |
| 2 | | | HOUSING, ROTARY ACTUATOR (includes arms) | 1 |
| 3 | | | CAP, END | 1 |
| 4 | | | SHAFT | 1 |
| 5 | 02-042702 | | BEARING KIT | 1 |
| | | | **Note:** Items in kit identified by double asterisk (* *). | |
| 6 | | | WASHER, THRUST | 2 |
| 7 | | | BEARING, SHAFT | 1 |
| 8 | | | BEARING, CAP | 1 |
| 9 | | | PISTON AND SLEEVE ASSEMBLY | 1 |
| 10 | | | PLUG, PORT | 2 |
| 11 | | | SET SCREW | 2 |
| 12 | | | SET SCREW | 2 |
| 13 | 02-042701 | | SEAL KIT | 1 |
| | | | **Note:** Items in kit identified by asterisk (*). | |
| 14 | | | SEAL | 1 |
| 15 | | | RING, BACK-UP | 1 |
| 16 | | | SEAL, PISTON | 1 |
| 17 | | | PACKING, ROD | 1 |
| 18 | | | PACKING, PISTON | 1 |
| 19 | | | PACKING, BEARING | 1 |

TITLE

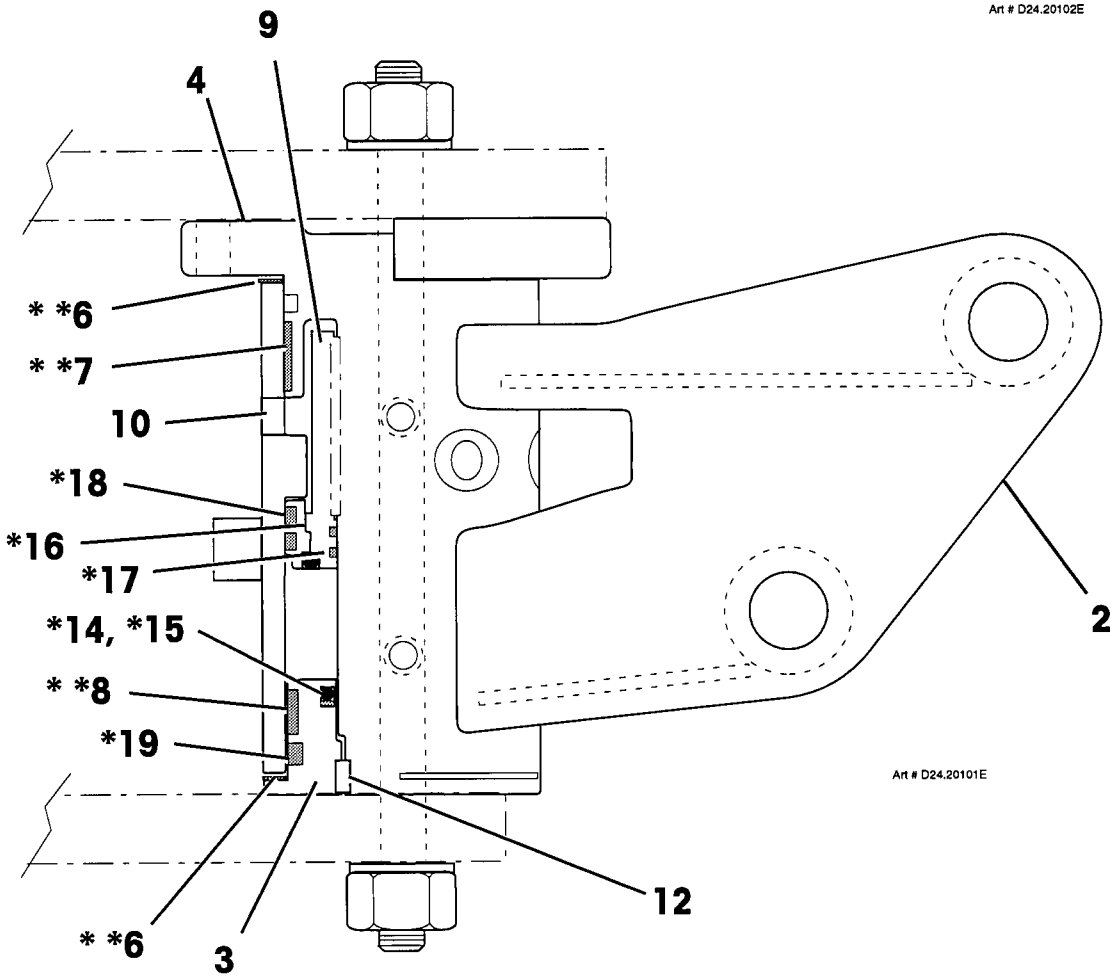
PLATFORM ROTARY ACTUATOR

| SECTION | PLATE NO. | PAGE | REV. | DATED | PART NO. |
|---|---|---|---|---|---|
| D24. | 201 | 01 | - | 14 JUL., 1994 | 02-042700 |

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172




Art # D24.20102E




Art # D24.20101E

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172

TITLE

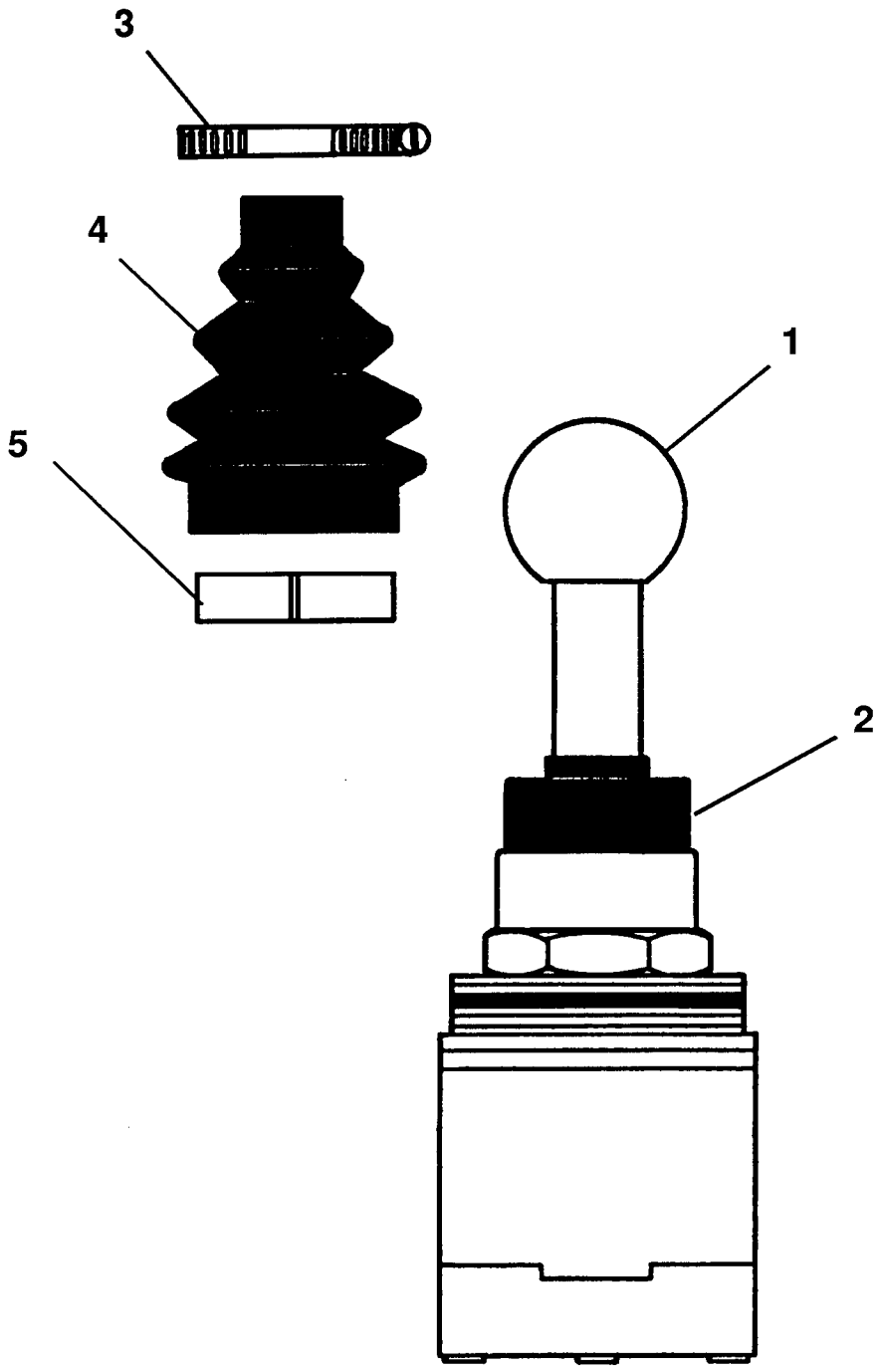
# PLATFORM ROTARY ACTUATOR

| PART NO. | REV. | DATED | SECTION | PLATE NO. | PAGE |
|---|---|---|---|---|---|
| 02-042700 | - | 14 JUL., 1994 | D24. | 201 | 01 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-021801 | | KNOB | 1 |
| 2 | 03-021802 | | BOOT | 1 |
| 3 | | | BOOT CLAMP (Optional) | 1 |
| 4 | 03-022702 | | BOOT W/ CLAMP (Optional) | 1 |
| 5 | 200183-8 | | RING (Optional) | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | JOYSTICK CONTROLLER (5 POSITION) | | | |
| PLATE NO. E01.03 | **SIMON AERIALS INC.** | REV. 08/08/91 | PART NO. | 03-021800 |

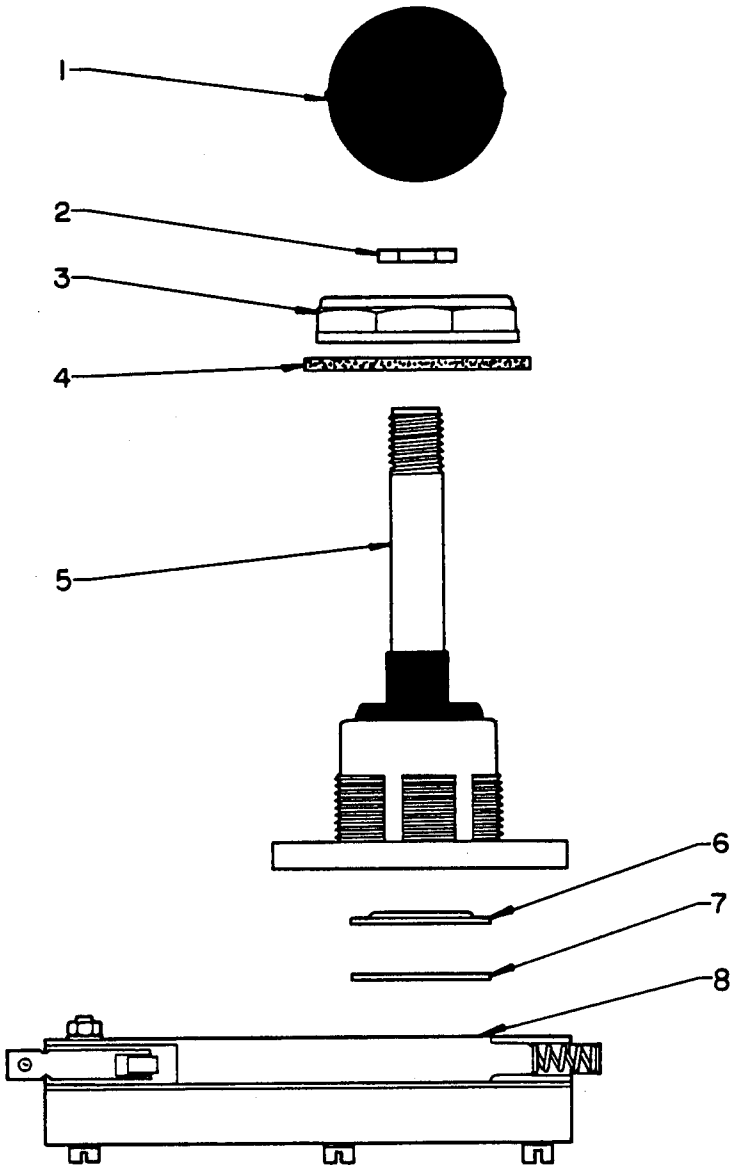



| TITLE | JOYSTICK CONTROLLER (5 POSITION) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 08/08/91 | PART NO. 03-021800 | PLATE NO. E01.03 | |

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-061601 | | KNOB | 1 |
| 2 | | | JAM NUT | 1 |
| 3 | | | RETAINING NUT | 1 |
| 4 | | | GASKET | 1 |
| 5 | | | HANDLE | 1 |
| 6 | | | COMMON GATE | 1 |
| 7 | | | POSITION GATE (8 POSITION) | 1 |
| 8 | | | MECHANISM | 1 |

| DESCRIPTION | PART NO. |
|---|---|
| JOYSTICK (8 POSITION) | 03-061600 |




0784/ 0983

| DESCRIPTION | PART NO. |
|---|---|
| JOYSTICK (8 POSITION) | 03-061600 |

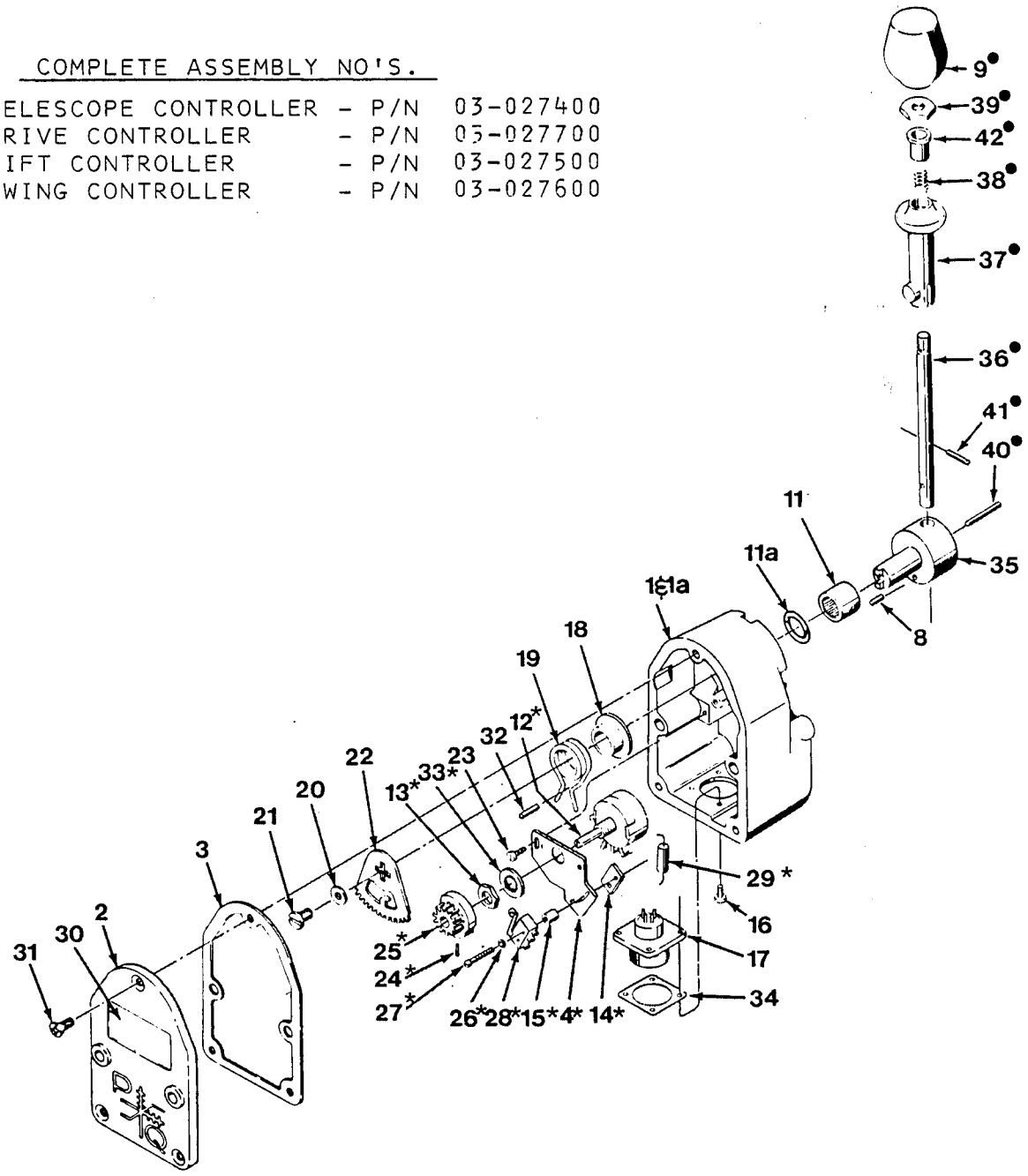
# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-027226 | | HOUSING (DRIVE, TELESCOPE) | 1 |
| 1A | 03-027227 | | HOUSING (LIFT, SWING) | 1 |
| 2 | | | COVER (DRIVE & TELESCOPE ONLY) | 1 |
| 2A | | | LATHE CUT GROMMET (NOT SHOWN) | 1 |
| 3 | | | HOUSING GASKET | 1 |
| 4* | | | MOUNTING PLATE | 1 |
| 8 | | | GROOVE PIN | 1 |
| 9● | 03-027220 | | BALL KNOB | 1 |
| 11 | | | BEARING | 1 |
| 11A | | | 'O' RING | 1 |
| 12* | | | POTENTIOMETER | 1 |
| 13* | | | HEX NUT | 1 |
| 14* | | | FASTENER PLATE | 1 |
| 15* | | | SPACER | 2 |
| 16 | | | PAN HEAD MACHINE SCREW | 4 |
| 17 | | | MS RECEPTACLE | 1 |
| 18 | | | SPRING GUIDE | 1 |
| 19 | 03-027232 | | TORSION SPRING | 1 |
| 20 | | | SAE FLATWASHER | 1 |
| 21 | | | PAN HEAD MACHINE SCREW | 1 |
| 22 | | | SECTOR GEAR | 1 |
| 23 | | | FILLISTER HEAD MACHINE SCREW | 1 |
| 24* | | | HEX SOCKET SET SCREW | 1 |
| 25* | | | SPUR GEAR & CAM | 1 |
| 26* | | | LOCKWASHER | 2 |
| 27* | | | FILLISTER HEAD MACHINE SCREW | 2 |
| 28* | 03-027217 | | ROLLER LEVER SWITCH | 1 |
| 29* | | | RESISTOR | 1 |
| 30 | | | I.D. TAG | 1 |
| 31 | | | FLAT HEAD MACHINE SCREW | 3 |
| 32 | | | GROOVE PIN | 1 |
| 33* | | | INTERNAL TOOTH LOCKWASHER | 1 |
| 34 | | | MS CONNECTOR GASKET | 1 |
| 35 | | | CONTROL HANDLE | 1 |
| 36● | | | CONTROL HANDLE EXTENSION | 1 |
| 37● | 03-027221 | | CONTROL HANDLE SLIDE LOCK | 1 |
| 38● | 03-027215 | | COMPRESSION SPRING | 1 |
| 39● | | | HEX NUT | 1 |
| 40● | | | GROOVE PIN | 1 |
| 41● | 03-027218 | | GROOVE PIN | 1 |
| 42● | 03-027219 | | SLEEVE | 1 |
| ● | 03-027207 | | HANDLE ASSEMBLY (ALL CONTROLLERS) | |
| * | 03-027208 | | ELECTRICAL ASSEMBLY, TLSCP. CONTROLLER | |
| * | 03-027209 | | ELECTRICAL ASSEMBLY, DRIVE CONTROLLER | |
| * | 03-027210 | | ELECTRICAL ASSEMBLY, LIFT CONTROLLER | |
| * | 03-027211 | | ELECTRICAL ASSEMBLY, SWING CONTROLLER | |

| DESCRIPTION | PART NO. |
|---|---|
| JOYSTICK CONTROLLER | 03-027202 THRU 03-027205 |

COMPLETE ASSEMBLY NO'S.

| | | |
|---|---|---|
| TELESCOPE CONTROLLER | - P/N | 03-027400 |
| DRIVE CONTROLLER | - P/N | 03-027700 |
| LIFT CONTROLLER | - P/N | 03-027500 |
| SWING CONTROLLER | - P/N | 03-027600 |



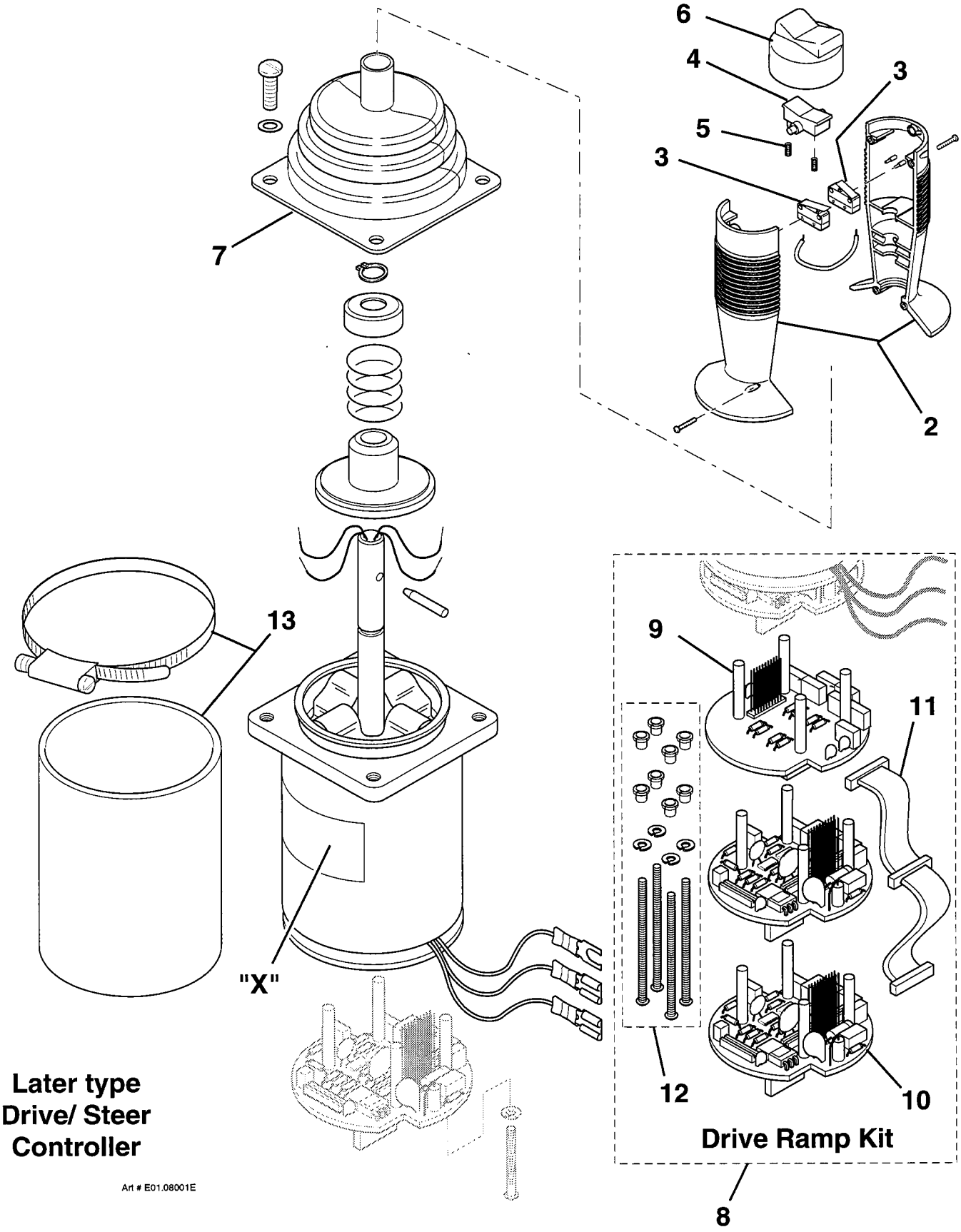

0485/0385

| DESCRIPTION | PART NO. |
|---|---|
| JOYSTICK CONTROLLER | 03-027202 THRU 03-027205 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-491200 | | CONTROLLER ASSEMBLY, SINGLE AXIS<br>(12 Volt, 33 Hz, with rocker switch in hand grip)<br>(**Later** type, identified on nameplate "X" as "**MJ 4020-1043**". | 1 |
| | | | **Note:** Some earlier versions of **this type** controller were marked "**MJ 4121-1043**", but these were modified by the removal of a driver board [shown in phantom on the illustration] and are identical to MJ 4020-1043.)<br>Both versions of the later type are illustrated on this page.<br>For earlier type, see next page. | |
| 2 | 03-491204 | | HANDLE (includes two halves and assembling hardware) | 1 |
| 3 | 03-491205 | | MICRO SWITCH | 2 |
| 4 | 03-491202 | | ROCKER, SWITCH | 1 |
| 5 | | | SPRING, SWITCH RETURN | 2 |
| 6 | 03-491201 | | BOOT, ROCKER SWITCH | 1 |
| 7 | 03-491001 | | BOOT, HANDLE (Gaiter) | 1 |
| | | | The following items **are not** included with Controller 03-491200, but **are** available for aftermarket installation: | |
| 8 | 03-702100 | | RAMP KIT, DRIVE | 1 |
| 9 | 03-494800 | | RAMP CARD | 1 |
| 10 | 03-494900 | | DRIVE BOARD | 2 |
| 11 | 03-495300 | | CABLE, JUMPER | 1 |
| 12 | 03-702200 | | MOUNTING HARDWARE, DRIVE RAMP KIT | 1 |
| 13 | 03-499500 | | COVER KIT, CONTROLLER (includes boot and clamp) | 1 |

TITLE DRIVE/ STEER CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2



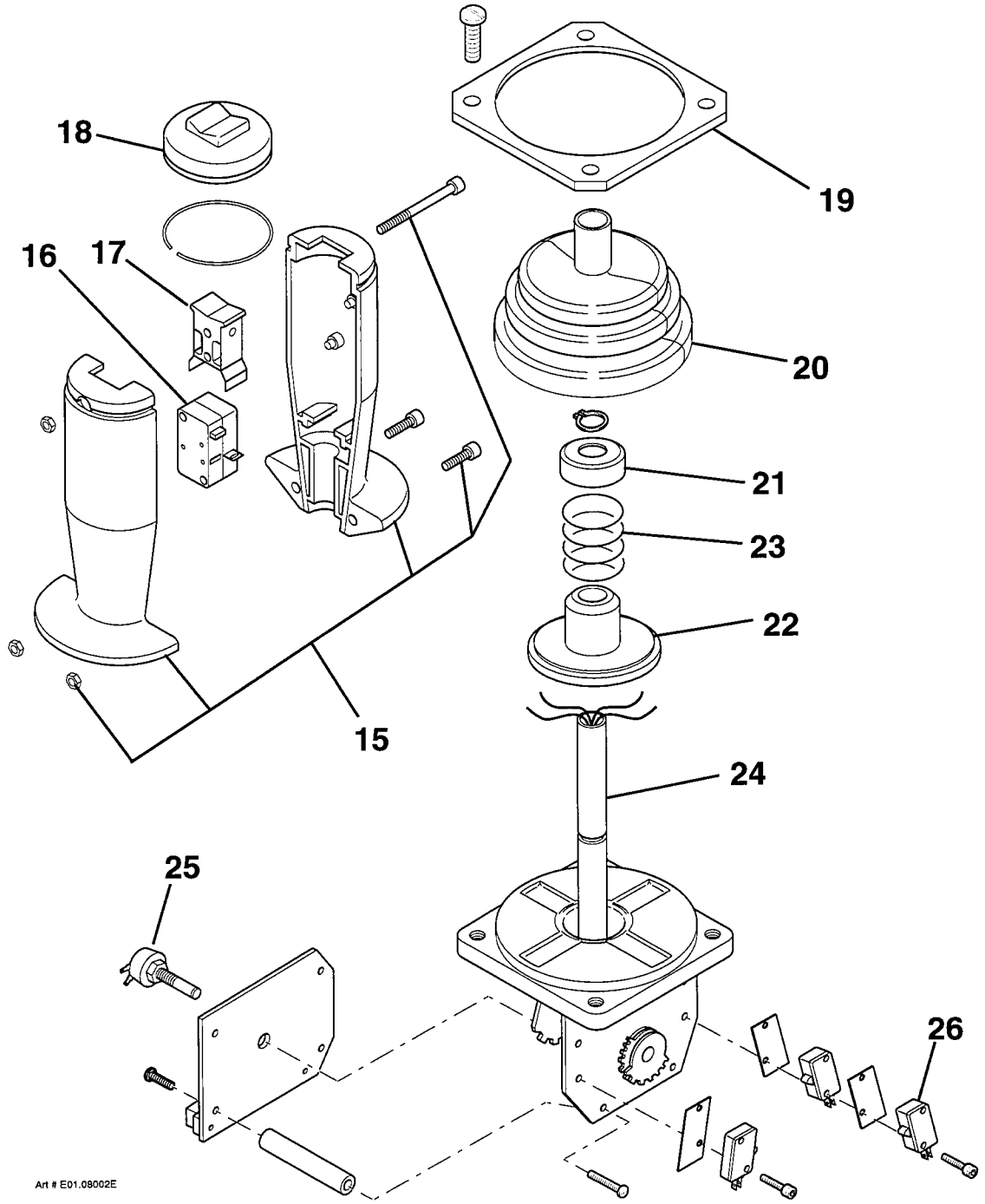

TITLE DRIVE/ STEER CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

| SIMON AERIALS INC. REV. 01 FEB., 1996 | PART NO. | PLATE NO. E01.08 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 14 | 03-481900 | | CONTROLLER ASSEMBLY, SINGLE AXIS<br>(12 Volt, 33 Hz, with rocker switch in hand grip)<br>(**Earlier** type, identified on nameplate as "**MS4 M6941**") | 1 |
| | | | **Note:** Earlier type is illustrated on this page. For later type, see previous page. | |
| 15 | 03-481905 | | HANDLE (includes two halves and assembling hardware)<br>(also includes gasket) | 1 |
| 16 | 03-483008 | | MICRO SWITCH | 1 |
| 17 | 03-483001 | | ROCKER, SWITCH | 1 |
| 18 | 03-483009 | | BOOT, ROCKER SWITCH | 1 |
| 19 | 03-481706 | | CLAMP, BOOT | 1 |
| 20 | 03-481901 | | BOOT, HANDLE (Gaiter) | 1 |
| 21 | 03-491004 | | CAP, HANDLE (Upper) | 1 |
| 22 | 03-491005 | | CAP, HANDLE (Lower) | 1 |
| 23 | 03-481707 | | SPRING, HANDLE | 1 |
| 24 | 03-481903 | | SHAFT, HANDLE (includes gear) | 1 |
| 25 | 03-481902 | | POTENTIOMETER | 1 |
| 26 | 03-481904 | | MICRO SWITCH (Heavy duty) | 3 |

TITLE DRIVE/ STEER CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2




**Earlier type Drive/ Steer Controller**

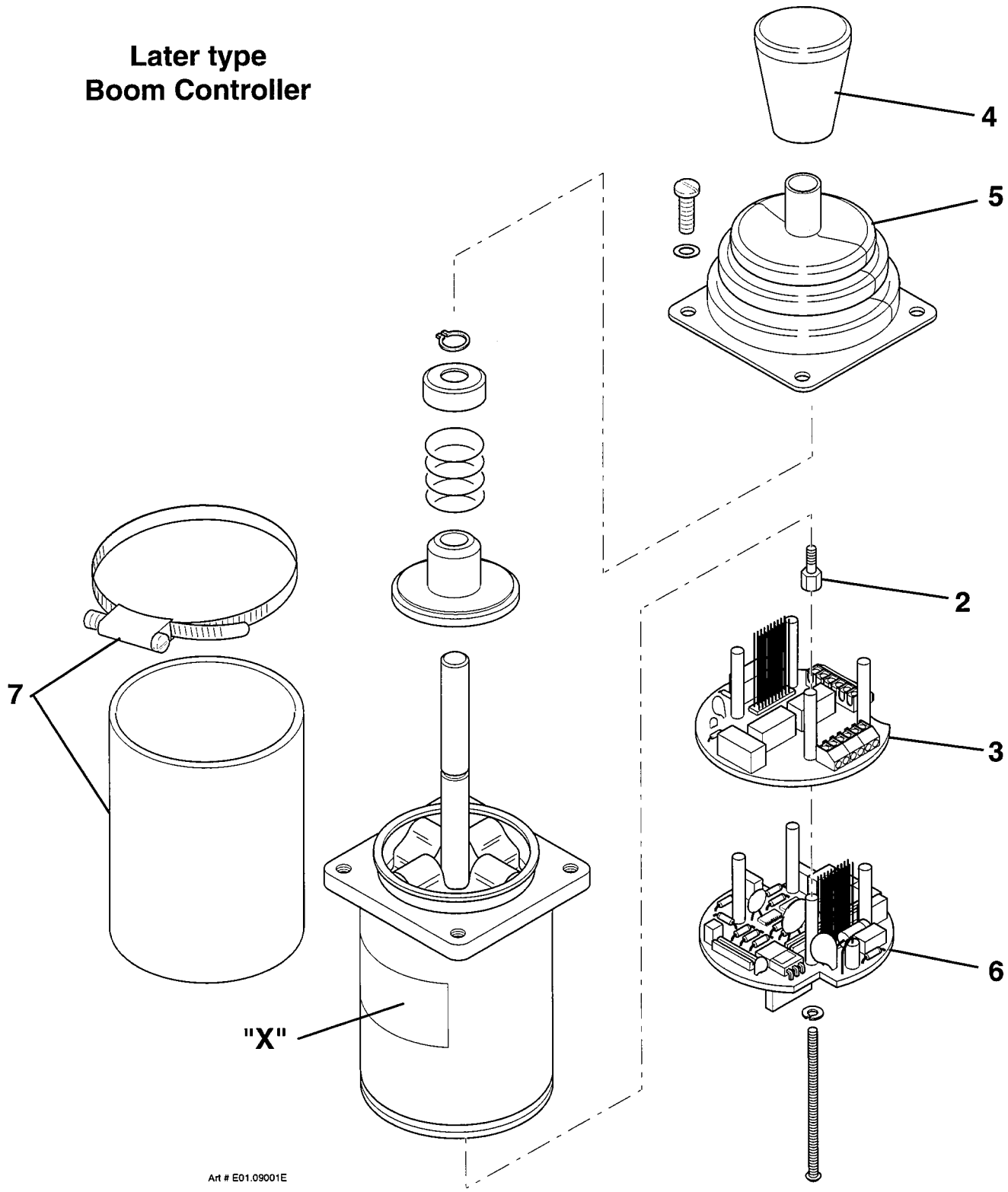
| | | | |
|---|---|---|---|
| TITLE DRIVE/ STEER CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2 | | | |
| **SIMON AERIALS INC.** | REV. 01 FEB., 1996 | PART NO. | PLATE NO. E01.08 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-491000 | | CONTROLLER ASSEMBLY, SINGLE AXIS (12 Volt, 33 Hz) (**Later** type, identified on nameplate "X" as "**MJ 9001-0301**". | 1 |
| | | | **Note:** Some earlier versions of **this type** controller were marked "**MJ 4121-1020**", but these were modified and are identical to MJ 9001-0301.) | |
| | | | Both versions of the later type are illustrated on this page. For earlier type, see next page. | |
| 2 | 03-495500 | | SPACER, STAND OFF | 4 |
| 3 | 03-493600 | | SWITCH BOARD (for alarm functions) | 1 |
| 4 | 03-491002 | | KNOB (Handle) | 1 |
| 5 | 03-491001 | | BOOT, HANDLE (Gaiter) | 1 |
| 6 | 03-491003 | | BOARD, DRIVER | 1 |
| | | | The following item **is not** included with Controller 03-491000: | |
| 7 | 03-499500 | | COVER KIT, CONTROLLER (includes boot and clamp) | 1 |

| | | | |
|---|---|---|---|
| TITLE | BOOM CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2 | | |
| PLATE NO. E01.09 | **SIMON AERIALS INC.** | REV. 01 FEB., 1996 | PART NO. |

**Later type**
**Boom Controller**




| | | | |
|---|---|---|---|
| TITLE | BOOM CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2 | | |
| **SIMON AERIALS INC.** | REV. 01 FEB., 1996 | PART NO. | PLATE NO. E01.09 |

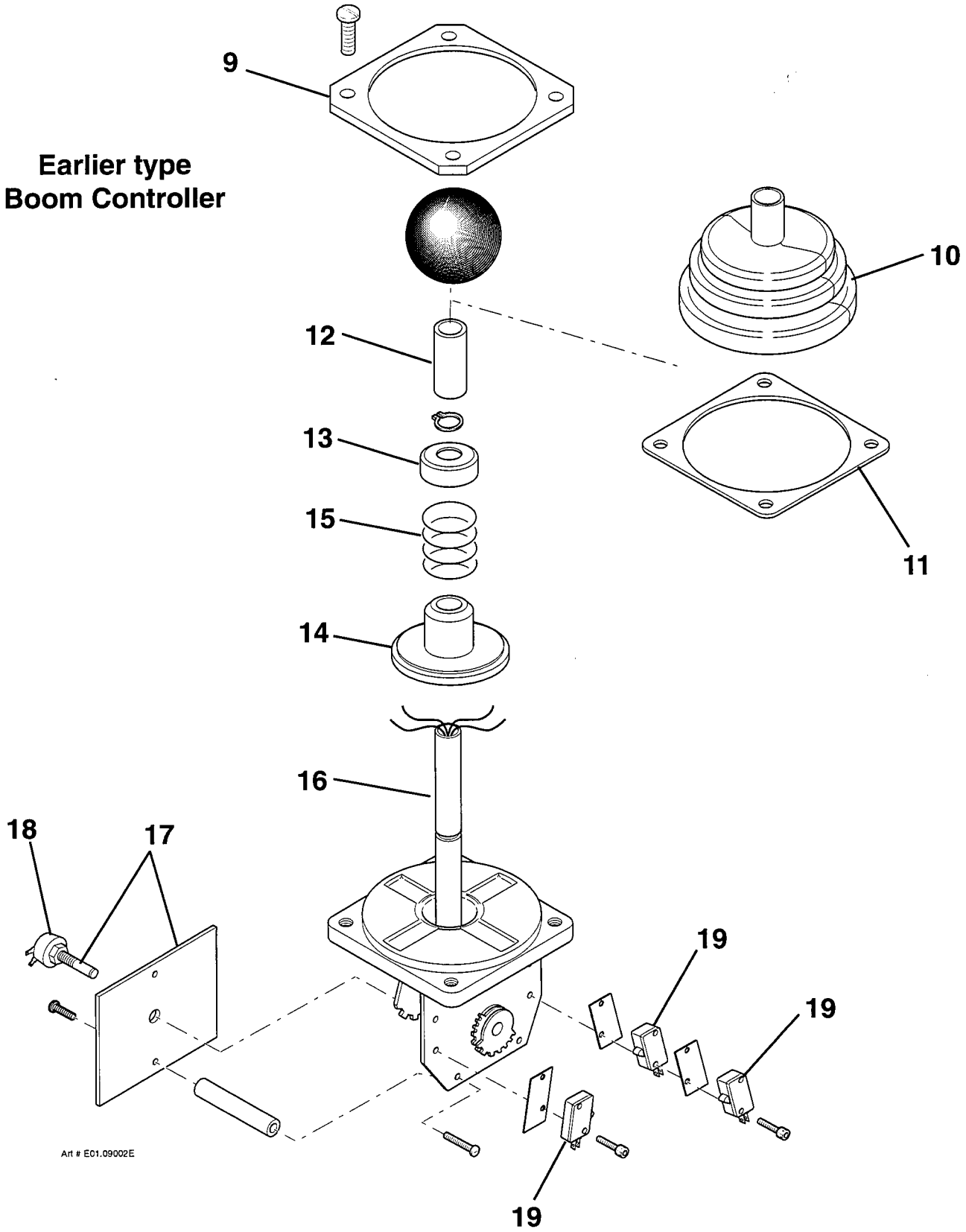
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 8 | 03-481700 | | CONTROLLER ASSEMBLY, SINGLE AXIS (12 Volt, 33 Hz) (**Earlier** type, identified on nameplate as "**EMS4M6351**") **Note:** Earlier type is illustrated on this page. For later type, see previous page. | 1 |
| 9 | 03-481706 | | CLAMP, BOOT | 1 |
| 10 | 03-481701 | | BOOT, HANDLE (Gaiter) | 1 |
| 11 | 03-481708 | | GASKET, MOUNTING | 1 |
| 12 | 03-481705 | | TUBE, INTERLOCK | 1 |
| 13 | 03-491004 | | CAP, HANDLE (Upper) | 1 |
| 14 | 03-491005 | | CAP, HANDLE (Lower) | 1 |
| 15 | 03-481707 | | SPRING, HANDLE | 1 |
| 16 | 03-481703 | | SHAFT, HANDLE (includes gear) | 1 |
| 17 | 03-481702 | | BOARD, PRINTED CIRCUIT (with Potentiometer) | 1 |
| 18 | 03-481902 | | POTENTIOMETER | 1 |
| 19 | 03-483008 | | MICRO SWITCH | 3 |

TITLE BOOM CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

PLATE NO. E01.09 | **SIMON AERIALS INC.** REV. 01 FEB., 1996 | PART NO.

**Earlier type**
**Boom Controller**




| TITLE | BOOM CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2 | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 01 FEB., 1996 | PART NO. | PLATE NO. E01.09 |

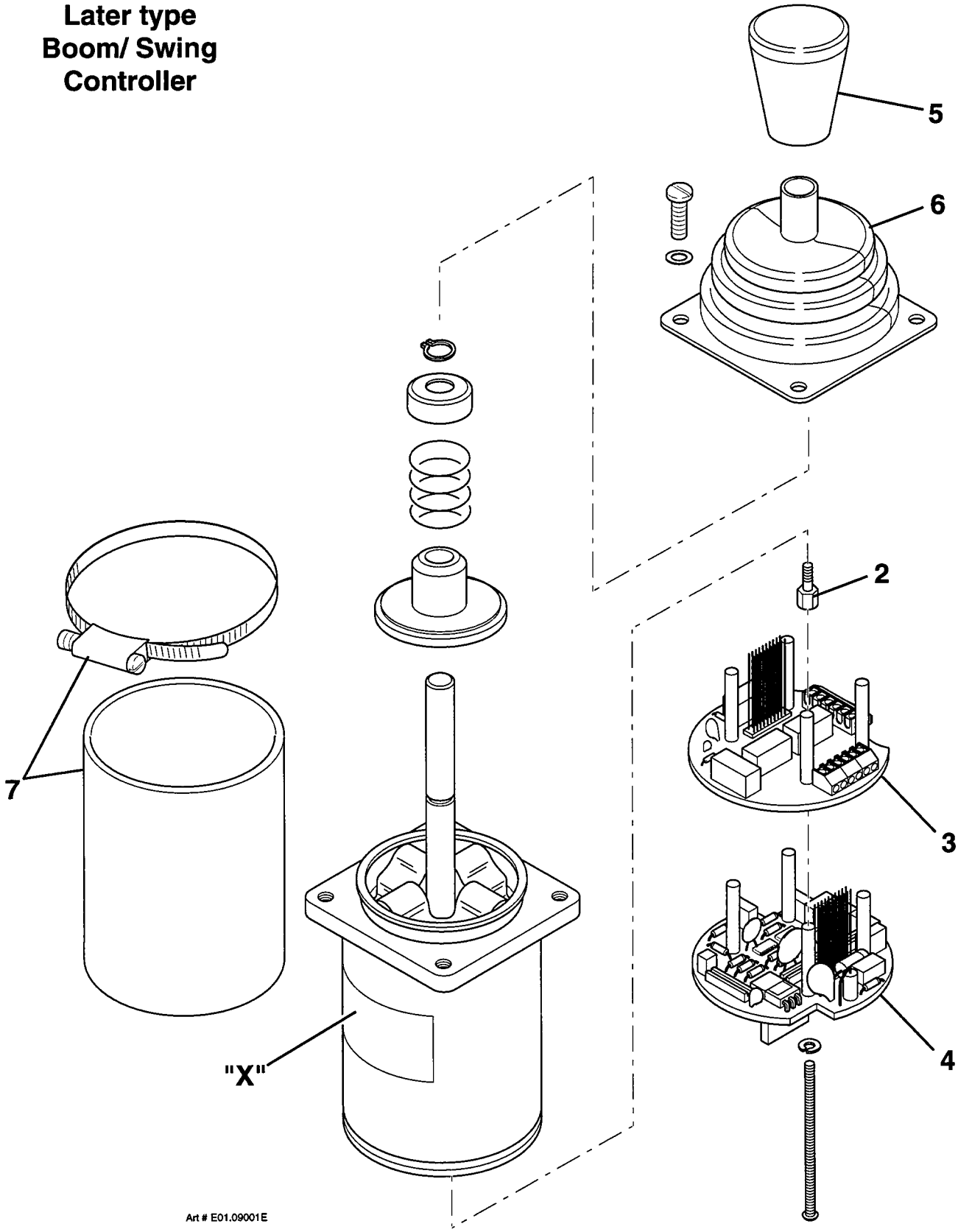
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-491100 | | CONTROLLER ASSEMBLY, DUAL AXIS (12 Volt, 33 Hz)<br>Standard controller, **later** type, identified on nameplate "X" as "**MJ5122-1020**") | 1 |
| | 03-710300 | | **Note:** Later type is illustrated on this page. For earlier type, see next page.<br>Special application, with auxiliary printed circuit board, identified on nameplate "X" as "**MJ5123-1020**") | 1 |
| 2 | | | SPACER, STAND OFF (for Controller 03-710300 only) | 4 |
| 3 | 03-710301 | | AUXILIARY CONTACT BOARD (for Controller 03-710300 only) | 1 |
| 4 | 03-491101 | | DRIVE BOARD | 1 |
| 5 | 03-491002 | | KNOB (Handle) | 1 |
| 6 | 03-491001 | | BOOT, HANDLE (Gaiter) | 1 |
| | | | The following items **are not** included with Controller 03-491100 or 03-710300, but **are** available for aftermarket installation: | |
| 7 | 03-499500 | | COVER KIT, CONTROLLER (includes boot and clamp) | 1 |

TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| E01.10 | **SIMON AERIALS INC.** | REV. 07 NOV., 1994 | |

**Later type Boom/ Swing Controller**




TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

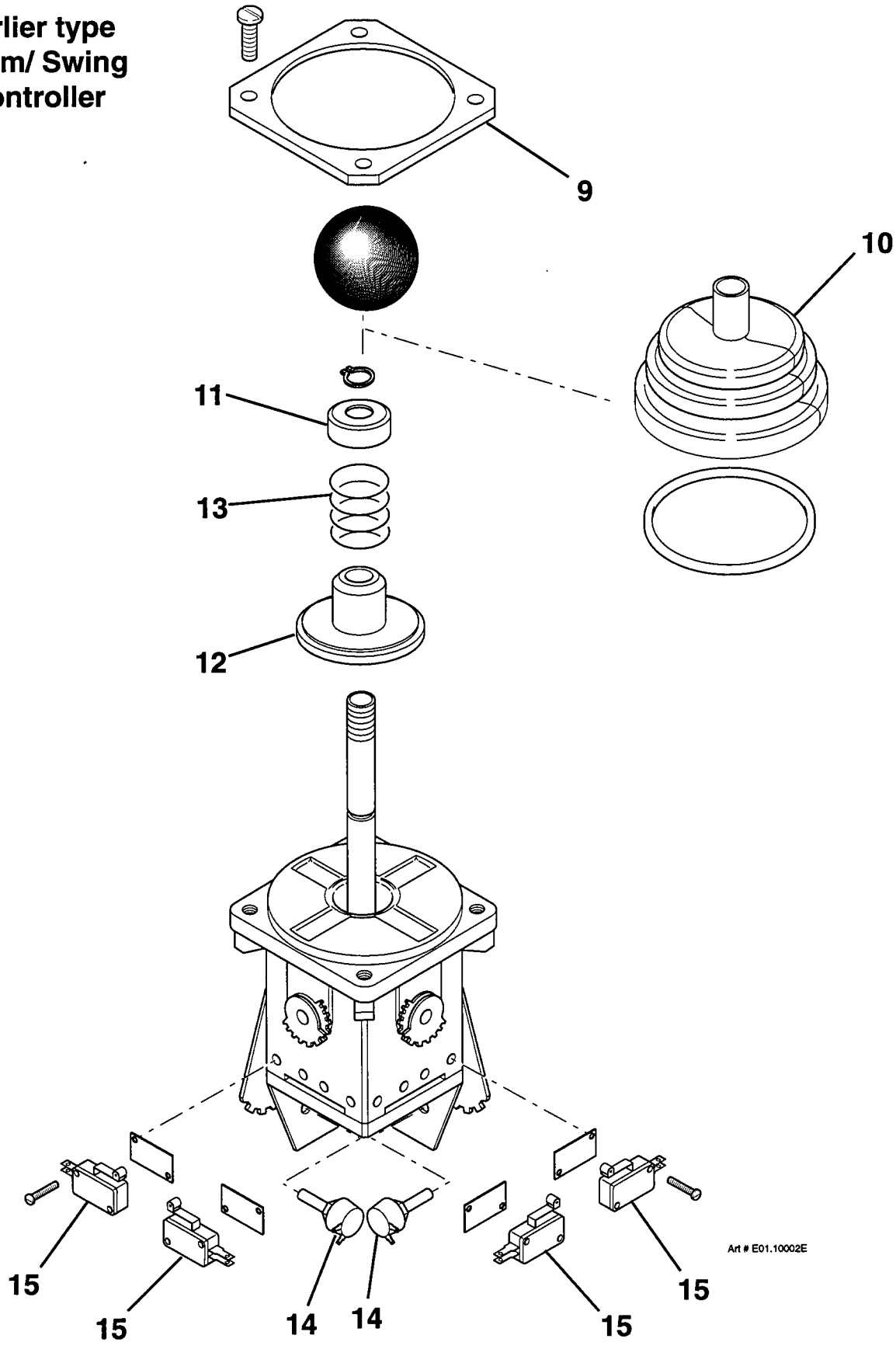
| SIMON AERIALS INC. REV. 07 NOV., 1994 | PART NO. | PLATE NO. E01.10 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 8 | 03-481800 | | CONTROLLER ASSEMBLY, DUAL AXIS (12 Volt, 33 Hz)<br>(**Earlier** type, identified on nameplate "X" as "**JS54 M6539**")<br>**Note:** Earlier type is illustrated on this page. For later type, see previous page. | 1 |
| 9 | 03-481706 | | CLAMP, BOOT | 1 |
| 10 | 03-481801 | | BOOT, HANDLE (Gaiter) | 1 |
| 11 | 03-491004 | | CAP, HANDLE (Upper) | 1 |
| 12 | 03-491005 | | CAP, HANDLE (Lower) | 1 |
| 13 | 03-481707 | | SPRING, HANDLE | 1 |
| 14 | 03-481902 | | POTENTIOMETER (10 K Ohm) | 2 |
| 15 | 03-481802 | | MICRO SWITCH | 4 |

TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

**Earlier type Boom/ Swing Controller**



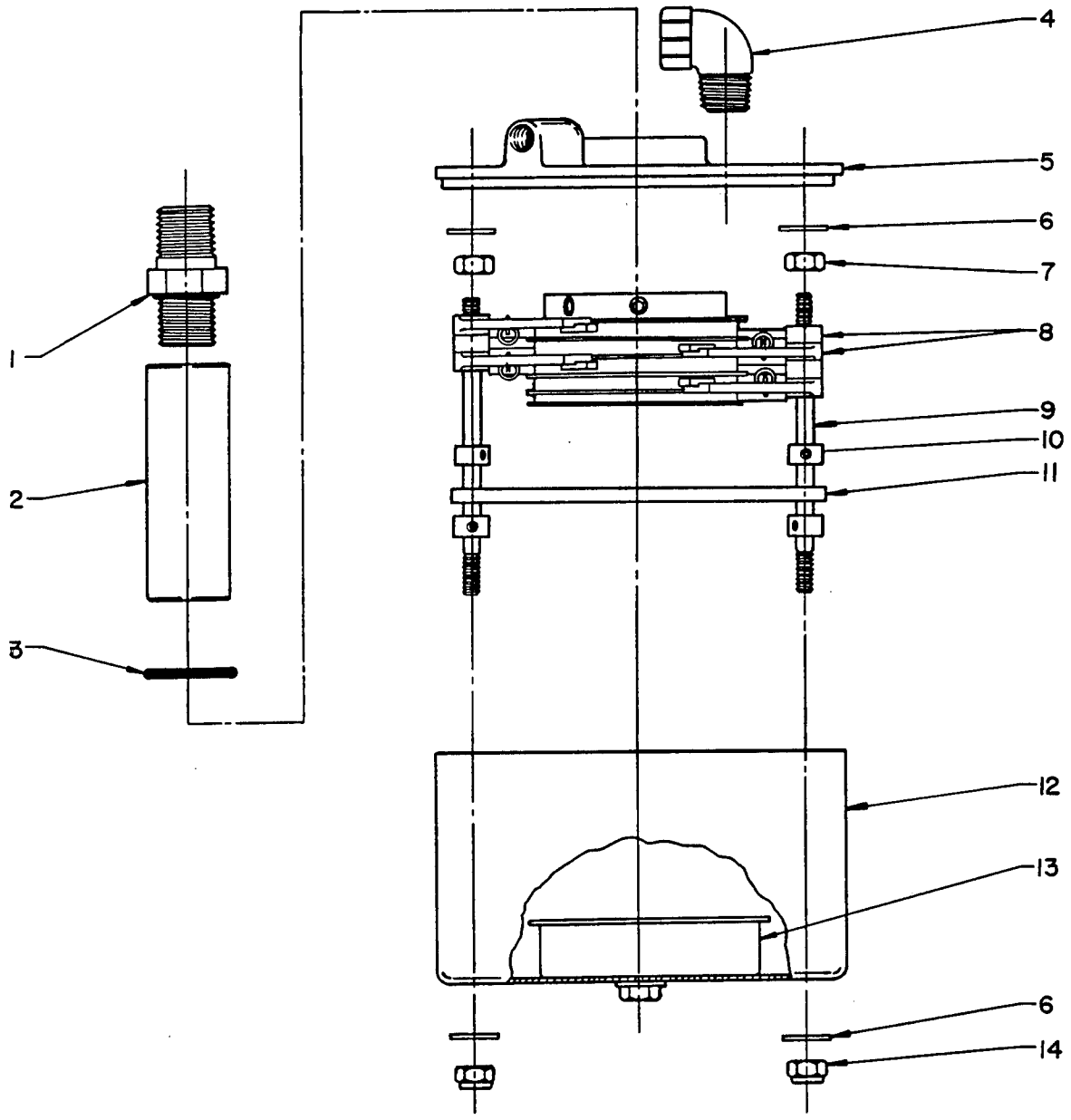

TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

| SIMON AERIALS INC. REV. 07 NOV., 1994 | PART NO. | PLATE NO. E01.10 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO. | SEC. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | MODIFIED CONNECTOR | 1 |
| 2 | SAD-206755-9 | | CONNECTING COLLAR | 1 |
| 3 | | | 'O' RING | |
| 4 | | | CORD GRIP, 90° 3/4" | 1 |
| 5 | | | BASE PLATE | 1 |
| 6 | | | FLATWASHER, 5/16" | 4 |
| 7 | | | HEX NUT, 5/16"-18 | 2 |
| 8 | | | BRUSH ASSEMBLY (INCL. BRUSH, ARMS & SPRING) | 4 |
| 9 | | | BRUSH HOLDING STUD | 2 |
| 10 | | | COLLAR | 4 |
| 11 | | | NYLON BEARING | 1 |
| 12 | | | COVER | 1 |
| 13 | | | RUBBING DISC | 1 |
| 14 | | | LOCKNUT, 5/16"-18 | 2 |

| DESCRIPTION | PART NO. |
|---|---|
| ELECTRICAL SWIVEL, 4 CIRCUIT | |




1085/0985

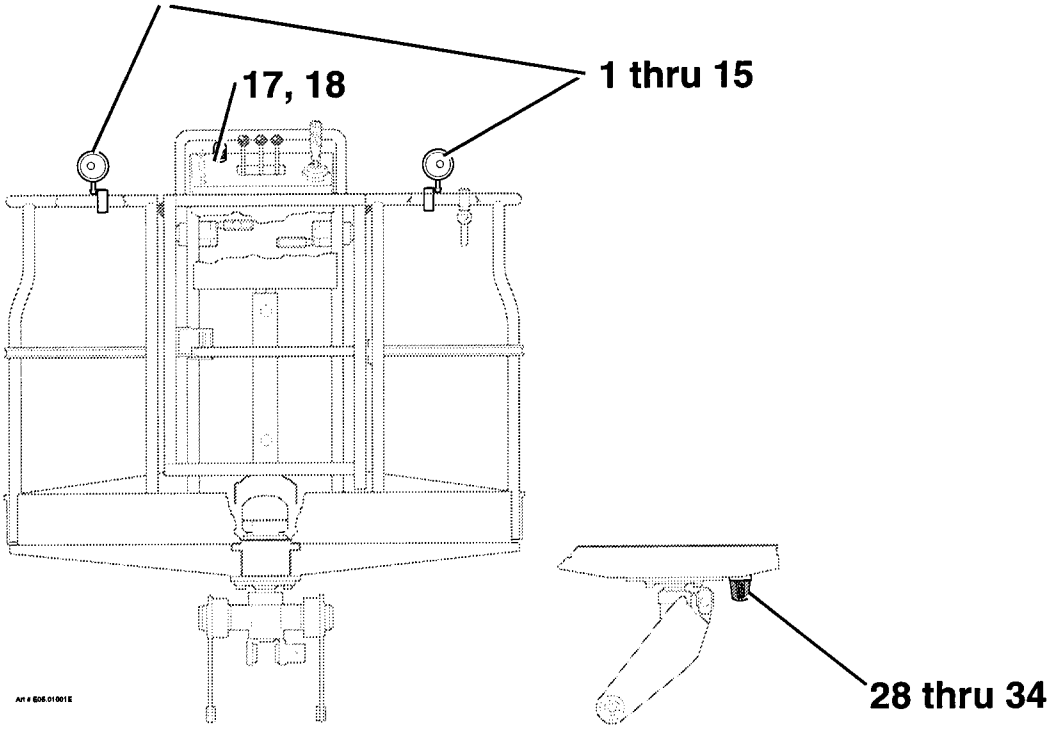
| DESCRIPTION | PART NO. |
|---|---|
| ELECTRICAL SWIVEL, 4 CIRCUIT | 03-038200 |

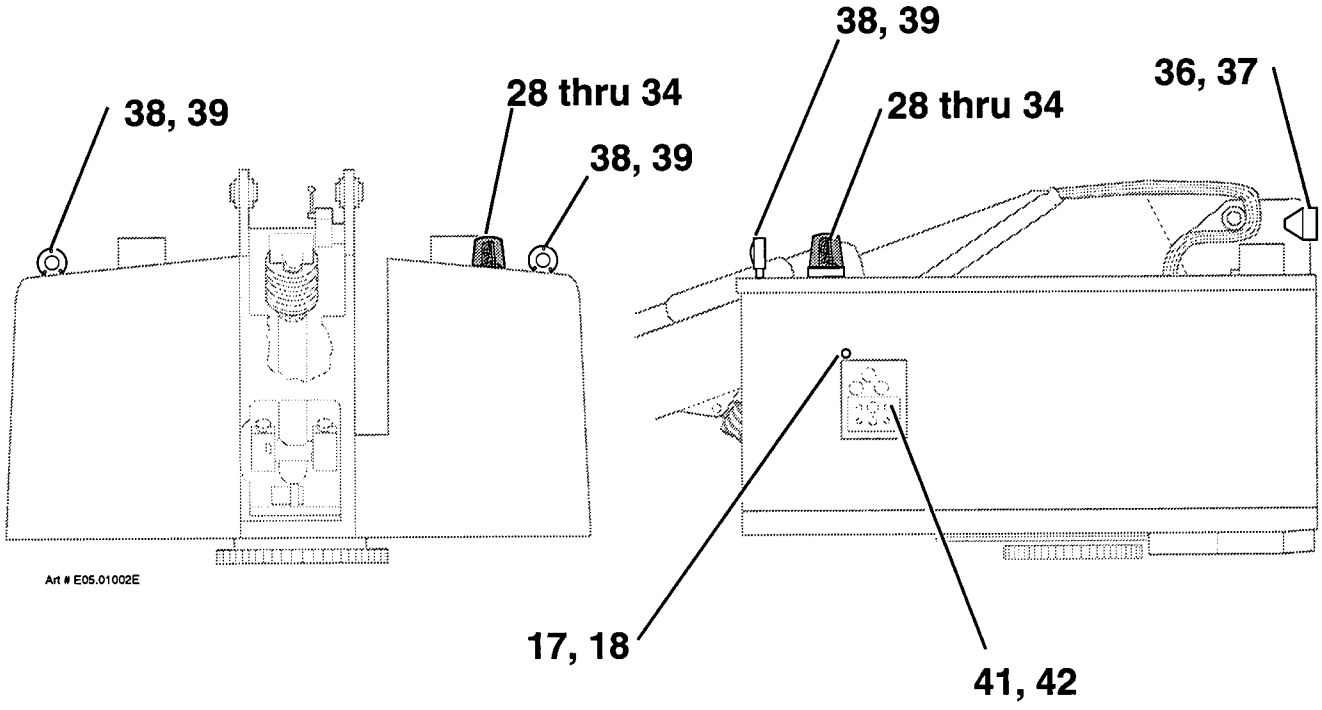
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 353 5050 | | PLATFORM WORK LIGHT PACKAGE | 1 |
| 2 | 03-037900 | | LAMP, TRUCK (12 Volt DC) (includes #4411 flood lamp bulb) | 2 |
| 3 | 03-037902 | | LAMP, FLOOD (Sealed beam replacement bulb) (#4411, 12 Volt DC) (See Item 15 for Spot lamp bulb) | |
| 4 | 210 7370 | | BRACKET, WORK LIGHT MOUNTING | 2 |
| 5 | 10-069600 | | CLAMP, TUBE (1-1/4" O.D.) | 2 |
| 6 | 03-064800 | | GROMMET (Plastic) | 2 |
| 7 | 03-087500 | | WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item, order as needed. 8 Ft [2.4 M] needed here) | A.R. |
| 8 | 03-092300 | | COUPLING, INSULATED (Female, Blue nylon, #14-16 AWG) | 2 |
| 9 | 03-094800 | | TERMINAL, RING (Blue, #14-16 AWG, 3/8" stud) | 2 |
| 10 | 03-408800 | | TUBING, HEAT SHRINK (Black, 1/4") (Bulk item, order as needed. 4 Ft [1.2 M] needed here) | A.R. |
| 11 | 03-064000 | | TIE, CABLE (7.4" [188 mm] long) | 6 |
| 12 | 03-499700 | | BREAKER, CIRCUIT (15 Amp) | 1 |
| 13 | 01-037400 | | "O"-RING (.351" I.D., .072" thick) | 1 |
| 14 | 03-499800 | | SEAL, CIRCUIT BREAKER BUTTON | 1 |
| 15 | 03-037901 | | LAMP, SPOT (Sealed beam replacement bulb) (#H7604, 12 Volt DC, Halogen) (See Item 3 for Flood lamp) | 1 |
| 16 | 353 5010 | | LIGHT PACKAGE (includes lamps for platform control panel, ground control panel, and engine compartment) | 1 |
| 17 | 03-038800 | | LAMP, CONTROL PANEL (hooded) | 2 |
| 18 | 03-418600 | | BULB, PANEL LAMP (#68, 12 Volt DC) | 1 |
| 19 | 03-035500 | | LAMP, DOME (Engine compartment) | 1 |
| 20 | No Part # | | BULB, DOME LAMP (#93, 12 Volt DC) | 1 |
| 21 | 03-087500 | | WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item, order as needed. 6 Ft [1.8 M] needed here) | A.R. |
| 22 | 03-092200 | | COUPLING, INSULATED (Male, Blue nylon, #14-16 AWG) | 2 |
| 23 | 03-092300 | | COUPLING, INSULATED (Female, Blue nylon, #14-16 AWG) | 2 |
| 24 | 03-099000 | | CONNECTOR, BUTT (Blue, #14-16 AWG) | 2 |
| 25 | 07-090100 | | MACHINE SCREW, ROUND HEAD (#10-32 x 3/4") | 6 |
| 26 | 07-062009 | | WASHER, FLAT (#8) | 6 |
| 27 | 07-050111 | | NUT, LOCK (#10-32, Grade 2, with Nylon insert) | 6 |

**TITLE** OPTIONAL LIGHT PACKAGES (PLATE 1 OF 2)

**PLATE NO.** E05.01 | **SIMON AERIALS INC.** REV. 09 NOV., 1994 | **PART NO.**



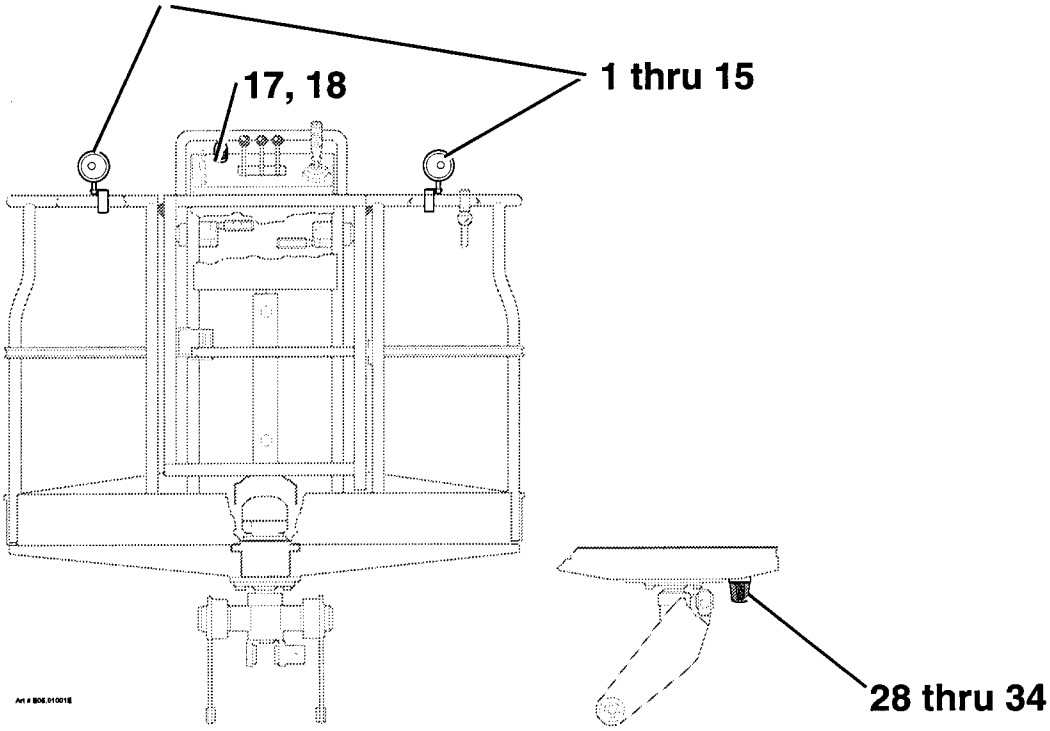



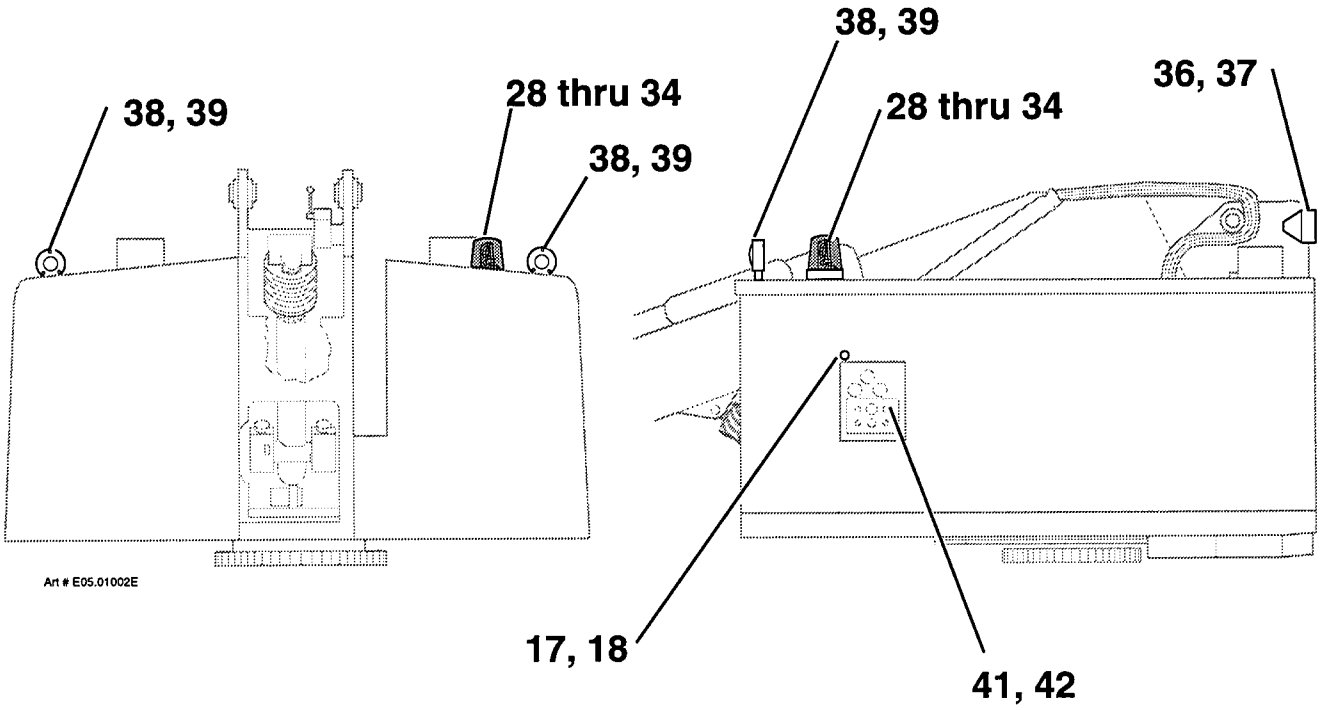

| TITLE | OPTIONAL LIGHT PACKAGES (PLATE 1 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 09 NOV., 1994 | | PART NO. | PLATE NO. E05.01 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 28 | 353 5030 | | ROTARY BEACON PACKAGE (Amber) | 1 |
| 29 | 03-030600 | | BEACON, ROTARY (Amber, 12 Volt DC) | 1 |
| 30 | 03-030601 | | LENS, ROTARY BEACON (Amber) | 1 |
| 31 | No Part # | | BULB, ROTARY BEACON (#1156, 12 Volt DC) | 1 |
| 32 | 03-064800 | | GROMMET (Plastic) | 1 |
| 33 | 03-087500 | | WIRE, ELECTRICAL (#16 AWG, Blue, stranded) | |
| | | | (Bulk item, order as needed. 3 Ft [.91 M] needed here) | A.R. |
| 34 | 03-092200 | | COUPLING, INSULATED | |
| | | | (Male, Blue nylon, #14-16 AWG) | 1 |
| 35 | 353 5040 | | HEAD AND TAIL LIGHT PACKAGE | 1 |
| 36 | 03-038000 | | HEADLAMP (Sealed beam) | 2 |
| 37 | No Part # | | BULB, HEADLAMP (Sealed beam replacement bulb) | |
| | | | (#H 7609, 12 Volt DC, Halogen) (Also see Item 52) | 1 |
| 38 | 03-031200 | | TAIL LAMP | 2 |
| 39 | No Part # | | BULB, TAIL LAMP (#1157, 12 Volt DC) | 1 |
| 40 | 03-020400 | | SWITCH, TOGGLE (2 position, maintained contact, | |
| | | | single pole, single throw) | 1 |
| 41 | 03-037500 | | SOCKET, RELAY (Double pole, snap mount) | 1 |
| 42 | 03-050100 | | RELAY, PLUG IN (12 Volt DC, double pole) | 1 |
| 43 | 03-085200 | | CABLE, ELECTRICAL (Type SJO, 2 cond., #16 AWG) | |
| | | | (Bulk item, order as needed. 20 Ft [6.1 M] needed here) | A.R. |
| 44 | 03-087500 | | WIRE, ELECTRICAL (#16 AWG, Blue, stranded) | |
| | | | (Bulk item, order as needed. 6 Ft [1.8 M] needed here) | A.R. |
| 45 | 03-092200 | | COUPLING, INSULATED | |
| | | | (Male, Blue nylon, #14-16 AWG) | 12 |
| 46 | 03-092300 | | COUPLING, INSULATED | |
| | | | (Female, Blue nylon, #14-16 AWG) | 12 |
| 47 | 07-031001 | | STUD, WELD (1/4"-20 x 3/4") | 28 |
| 48 | 07-050014 | | NUT, LOCK (1/4"-20, Grade 5) | 28 |
| 49 | 07-062015 | | WASHER, FLAT (5/16") | 28 |
| 50 | 10-060600 | | CLAMP, LOOP (3/8" | 28 |
| 51 | 03-497900 | | SEAL, PANEL (for headlamp toggle switch) | 1 |
| 52 | No Part # | | BULB, HEADLAMP (Sealed beam replacement bulb) | |
| | | | (#4419, 12 Volt DC) (Also see Item 37) | 1 |
| 53 | 03-046400 | | TURN SIGNAL | 1 |
| 54 | 03-031300 | | LAMP, MARKER (12 Volt DC) | 1 |

| TITLE | OPTIONAL LIGHT PACKAGES (PLATE 2 OF 2) | |
|---|---|---|
| PLATE NO. E05.01 | **SIMON AERIALS INC.** REV. 09 NOV., 1994 | PART NO. |



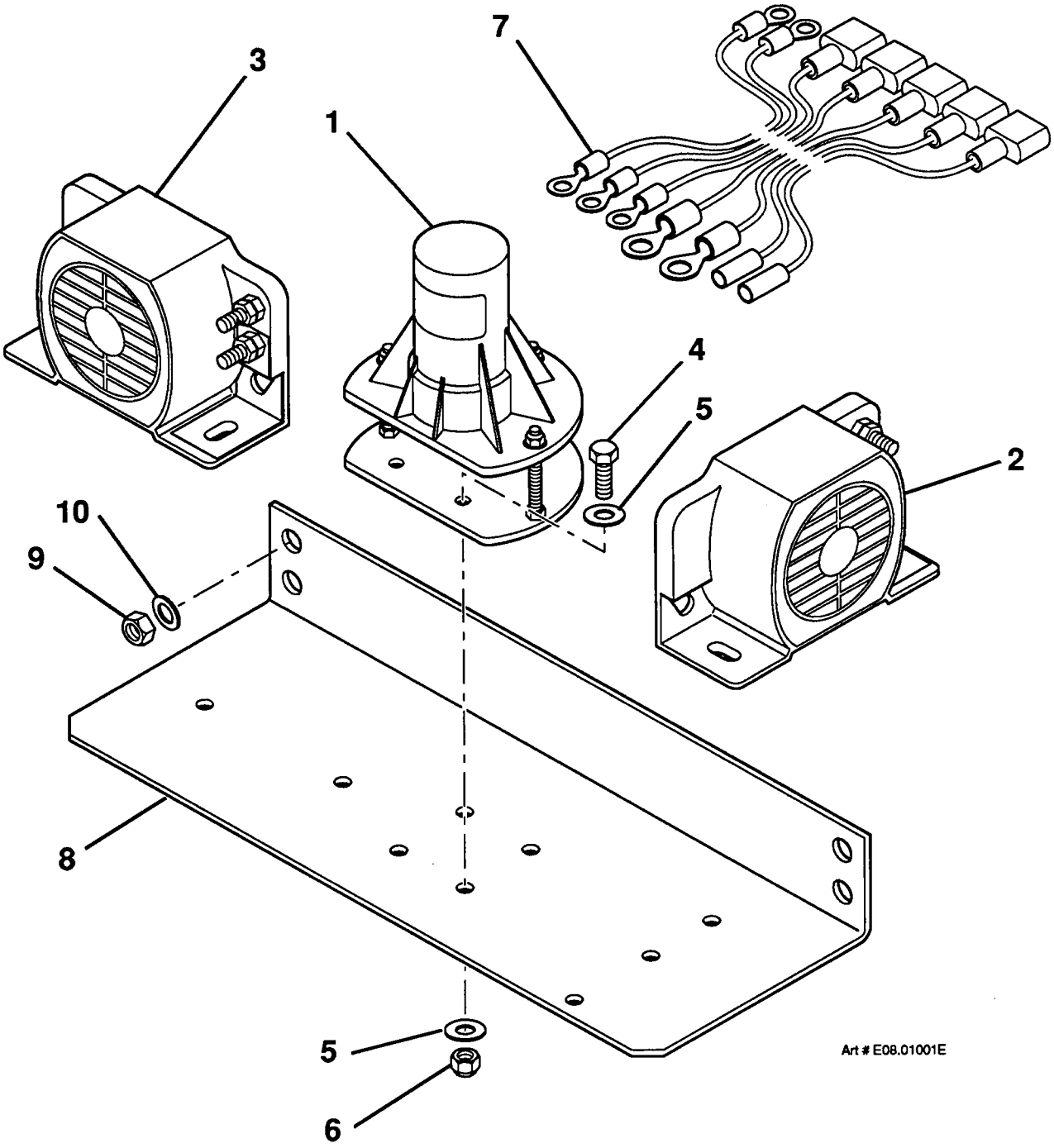




| TITLE | OPTIONAL LIGHT PACKAGES (PLATE 2 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 09 NOV., 1994 | PART NO. | PLATE NO. E05.01 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-038100 | | SENSOR, LEVEL (2 second delay) | 1 |
| 2 | 03-464600 | | HORN, LEVEL WARNING (square, second type) (102 dba, 12/ 24 volt, marked "Model 530" on vendor label) | 1 |
| | 03-036100 | | HORN, LEVEL WARNING (round, first type) | 1 |
| 3 | 03-472000 | | ALARM, MOVEMENT (second type) (97 dba, 12 volt, marked "Model DT 500" on vendor label) | 1 |
| | 03-038300 | | ALARM, MOVEMENT (first type, superceded by 03-472000) (marked "Model 340" on vendor label) | 1 |
| 4 | 07-003003 | | CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5) | 8 |
| 5 | 07-062014 | | WASHER, FLAT (1/4") | 4 |
| 6 | 07-050014 | | NUT, STOP (1/4"-20, Grade 5) | 4 |
| 7 | 03-439400 | | WIRE SET, ALARM | 1 |
| 8 | 2056021 | | BRACKET, ALARM ASSEMBLY | 1 |
| 9 | 07-040014 | | NUT, HEX (1/4"-20, Grade 5) | 4 |
| 10 | 07-060014 | | WASHER, FLAT (1/4", SAE) | 4 |

| | | | | |
|---|---|---|---|---|
| TITLE | ALARM PACKAGE ASSEMBLY, MP | | | |
| PLATE NO. | E08.01 | **SIMON AERIALS INC.** | NEW 03/11/91 | PART NO. 3505326 |

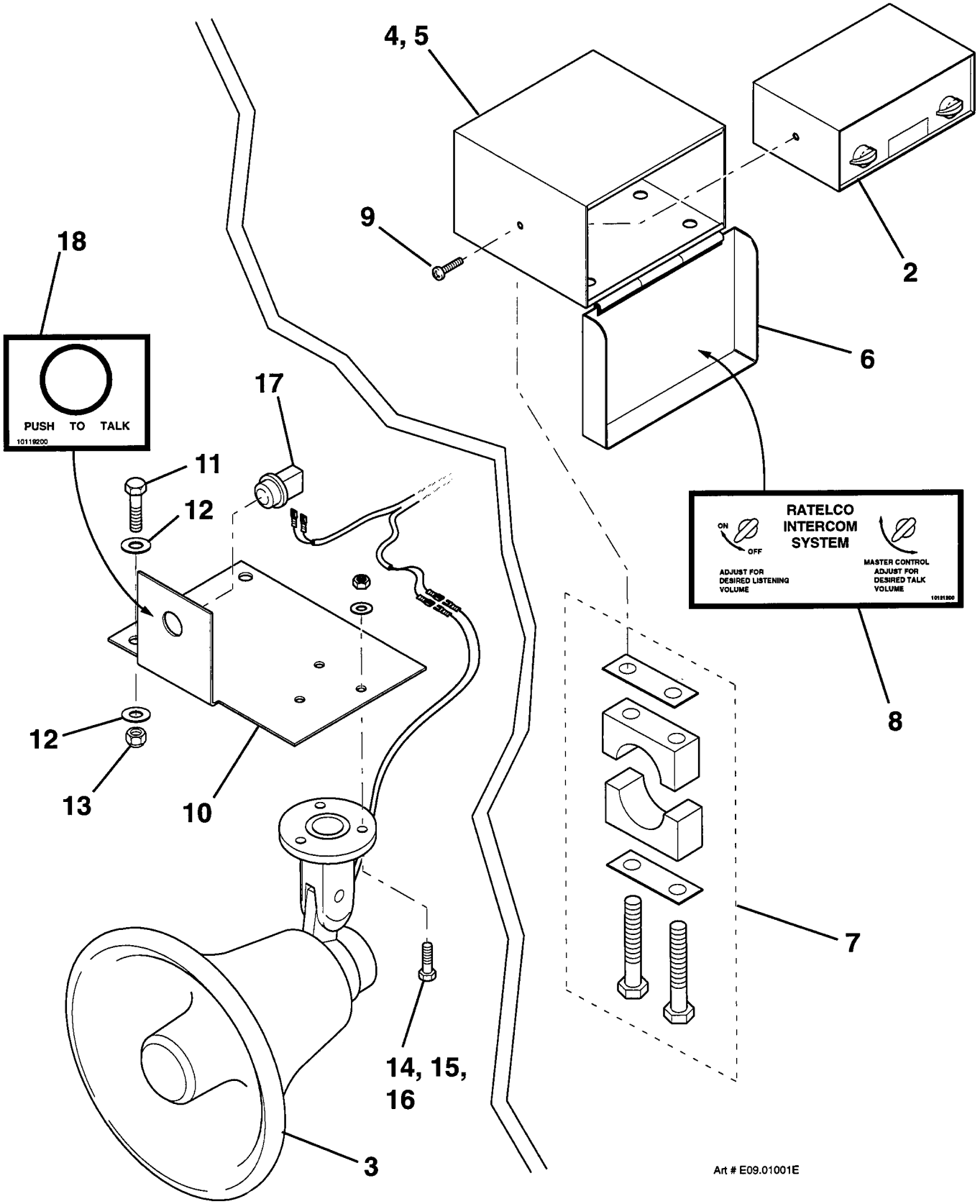



| TITLE | ALARM PACKAGE ASSEMBLY, MP | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | NEW 03/11/91 | PART NO. 3505326 | PLATE NO. E08.01 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 03-473400 | | INTERCOM SYSTEM (IC-10) (includes Master Station at platform, and Talkback Station at ground control panel) | 1 |
| 2 | Ref. | | STATION, INTERCOM MASTER | 1 |
| 3 | Ref. | | STATION, INTERCOM TALKBACK | 1 |
| 4 | No Part # | | ENCLOSURE, INTERCOM MASTER STATION | 1 |
| 5 | 2179950 | | BOX, INTERCOM MASTER STATION | 1 |
| 6 | 2179960 | | DOOR, INTERCOM MASTER STATION | 1 |
| 7 | 10-069600 | | CLAMP, TUBE (1-1/4" O.D.) | 2 |
| 8 | 10-121200 | | DECAL, INTERCOM CONTROL (at platform) | 1 |
| 9 | Ref. | | SCREW, MASTER STATION TO ENCLOSURE | 2 |
| 10 | 2179970 | | BRACKET, TALKBACK SPEAKER MOUNTING (used in some applications) | 1 |
| 11 | Ref. | | SCREW, BRACKET MOUNTING | 2 |
| 12 | Ref. | | WASHER, BRACKET MOUNTING | 4 |
| 13 | Ref. | | NUT, BRACKET MOUNTING | 2 |
| 14 | Ref. | | SCREW, TALKBACK SPEAKER MOUNTING | 3 |
| 15 | Ref. | | WASHER, TALKBACK SPEAKER MOUNTING | 3 |
| 16 | Ref. | | NUT, TALKBACK SPEAKER MOUNTING | 3 |
| 17 | 03-020300 | | SWITCH, PUSH BUTTON (Intercom ground operation) | 1 |
| 18 | 10-119200 | | DECAL, "PUSH TO TALK" | 1 |

| | | | |
|---|---|---|---|
| TITLE | MOBILE INTERCOM SYSTEM (OPTION) | | |
| PLATE NO. E09.01 | **SIMON AERIALS INC.** | NEW 02 MAY., 1994 | PART NO. |

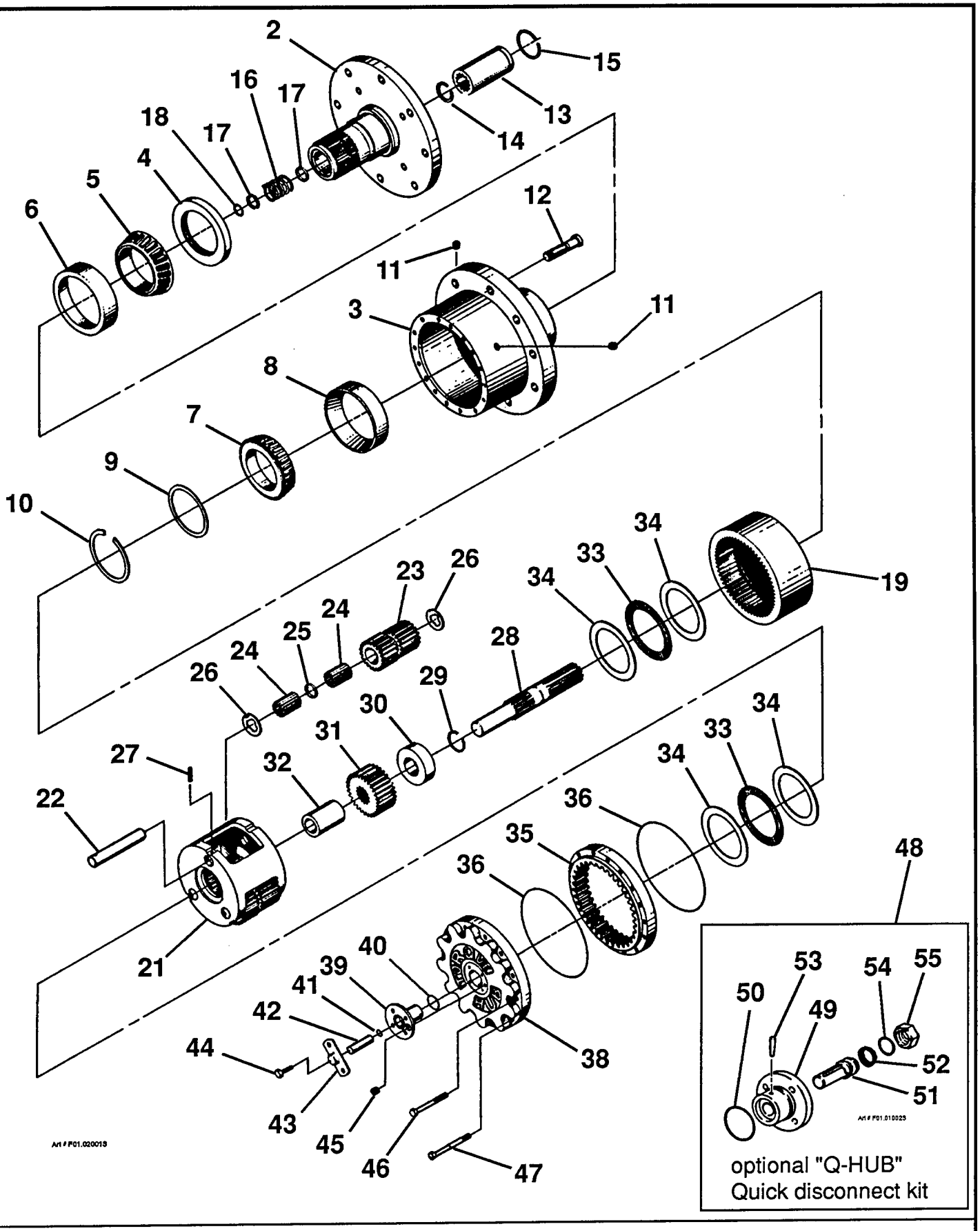



| TITLE | MOBILE INTERCOM SYSTEM (OPTION) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | NEW 02 MAY., 1994 | PART NO. | PLATE NO. E09.01 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | **Note:** Identification tag (on item 34) reads **"W3B110343 ZB"** (some earlier versions may read **"W3BM10343"**.) | |
| 1 | | | HUB AND SPINDLE ASSEMBLY | 1 |
| 2 | 02-000620 | | SPINDLE | 1 |
| 3 | 02-000628 | | HUB [10 hole, 13-3/16" (335 mm) bolt circle] | 1 |
| 4 | 02-000605 | | SEAL, HUB | 1 |
| 5 | 02-000617 | | CONE AND ROLLER, HUB BEARING (inner) | 1 |
| 6 | 02-000632 | | CUP, HUB BEARING (inner) | 1 |
| 7 | 02-000616 | | CONE AND ROLLER, HUB BEARING (outer) | 1 |
| 8 | 02-000633 | | CUP, HUB BEARING (outer) | 1 |
| 9 | 02-000623 | | SPACER, HUB | 1 |
| 10 | 02-000606 | | RING, RETAINING | 1 |
| 11 | | | PLUG, PIPE | 2 |
| 12 | 07-030651 | | STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5) | 10 |
| 13 | 02-000615 | | COUPLING, MOTOR | 1 |
| 14 | 02-000626 | | RING, RETAINING | 1 |
| 15 | 02-000619 | | RING, RETAINING | 1 |
| 16 | 02-000625 | | SPRING | 1 |
| 17 | 02-000627 | | WASHER | 2 |
| 18 | 02-000626 | | RING, RETAINING | 1 |
| 19 | 02-000624 | | GEAR, INTERNAL | 1 |
| 20 | 02-000622 | | CARRIER ASSEMBLY, PLANETARY | 1 |
| 21 | | | CASE, CARRIER | 1 |
| 22 | 02-000635 | | SHAFT, PLANET | 3 |
| 23 | 02-000637 | | GEAR, PLANET | 3 |
| 24 | 02-000630 | | ROLLER, NEEDLE | 84 |
| 25 | 02-000631 | | SPACER | 3 |
| 26 | 02-000629 | | WASHER, THRUST | 6 |
| 27 | 02-000636 | | PIN, ROLL | 3 |
| 28 | 02-000614 | | SHAFT, INPUT | 1 |
| 29 | 02-000619 | | RING, RETAINING | 1 |
| 30 | 02-000611 | | SPACER, THRUST | 1 |
| 31 | 02-000613 | | GEAR, INPUT | 1 |
| 32 | 02-000612 | | SPACER, THRUST | 1 |
| 33 | 02-000610 | | BEARING, THRUST | 2 |
| 34 | 02-000609 | | WASHER, THRUST | 4 |
| 35 | 02-000634 | | GEAR, RING | 1 |
| 36 | 02-000607 | | O-RING | 2 |

| | | | | | |
|---|---|---|---|---|---|
| TITLE | TORQUE HUB (43:1) (PLATE 1 OF 2) | | | | |
| PLATE NO. | F01.02 | **SIMON AERIALS INC.** | REV.05/16/91 | PART NO. | 02-000600 |



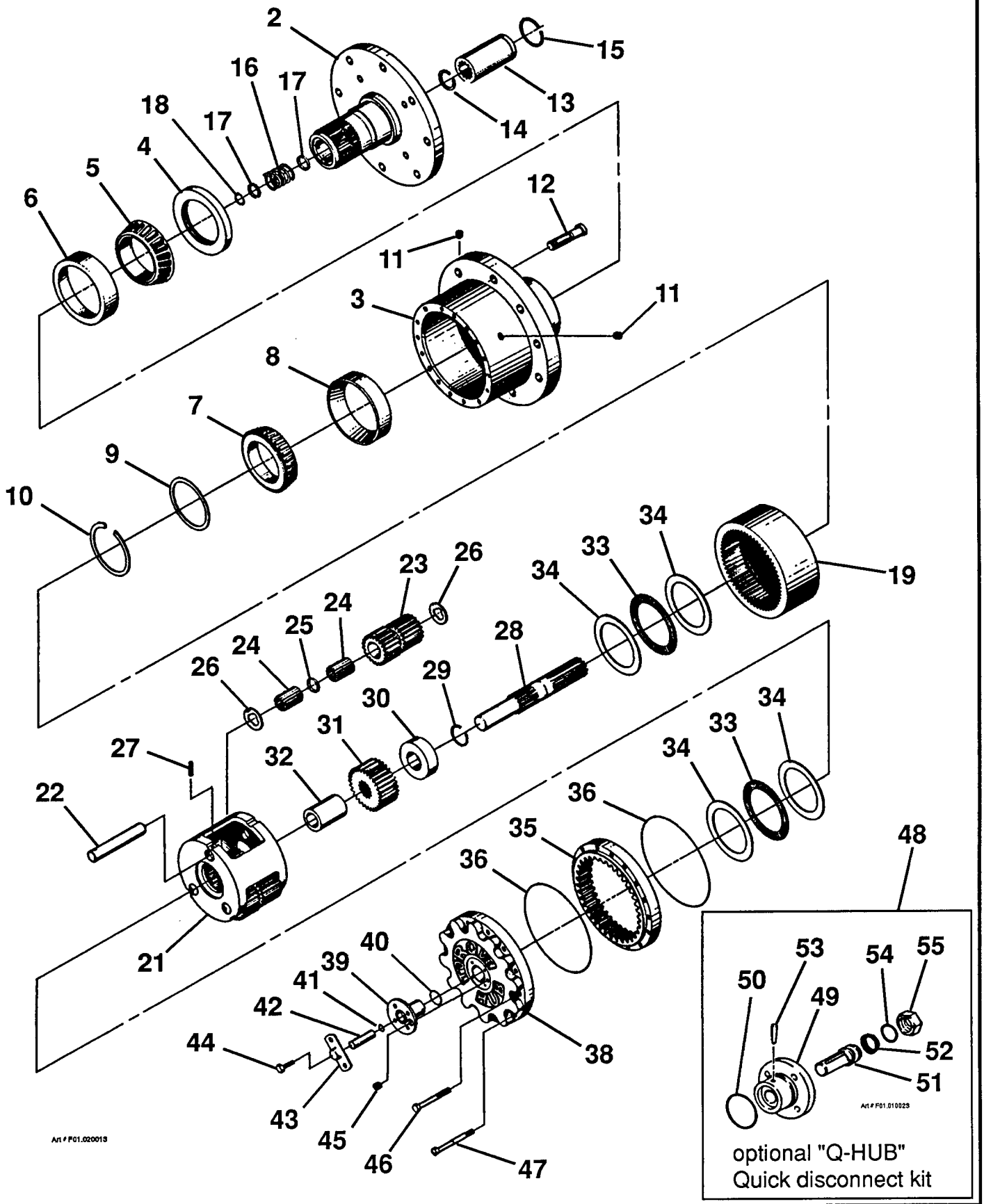

| TITLE | TORQUE HUB (43:1) (PLATE 1 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV.05/16/91 | PART NO. 02-000600 | PLATE NO. F01.02 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 37 | | | COVER ASSEMBLY, HUB | 1 |
| 38 | 02-000618 | | COVER, HUB | 1 |
| 39 | 02-000601 | | CAP, COVER | 1 |
| | | | **Note:** Items 39 through 45 are for units without "Q-hub" quick-disconnect option. | |
| 40 | 02-000608 | | "O"-RING | 1 |
| 41 | 02-000512 | | "O"-RING | 1 |
| 42 | 02-000603 | | ROD, DISCONNECT | 1 |
| 43 | 02-000602 | | CAP, DISCONNECT | 1 |
| 44 | | | BOLT | 4 |
| 45 | | | PLUG, PIPE (Oil level check) | 1 |
| 46 | | | BOLT | 8 |
| 47 | 02-000621 | | BOLT, SHOULDER | 4 |
| | | | The following optional kit may be installed on your hub: | |
| 48 | 02-000604 | | CAP KIT, COVER (quick-disconnect "Q-hub" kit) | 1 |
| 49 | | | CAP, QUICK DISCONNECT | 1 |
| 50 | | | "O"-RING | 1 |
| 51 | | | ROD, DISCONNECT | 1 |
| 52 | | | SEAL, DISCONNECT ROD | 1 |
| 53 | | | PIN, ROLL | 1 |
| 54 | | | "O"-RING | 1 |
| 55 | 02-000519 | | CAP, HEX | 1 |

TITLE: TORQUE HUB (43:1) (PLATE 2 OF 2)

PLATE NO. F01.02 | **SIMON AERIALS INC.** | REV.06/28/91 THIS SHEET ONLY | PART NO. 02-000600

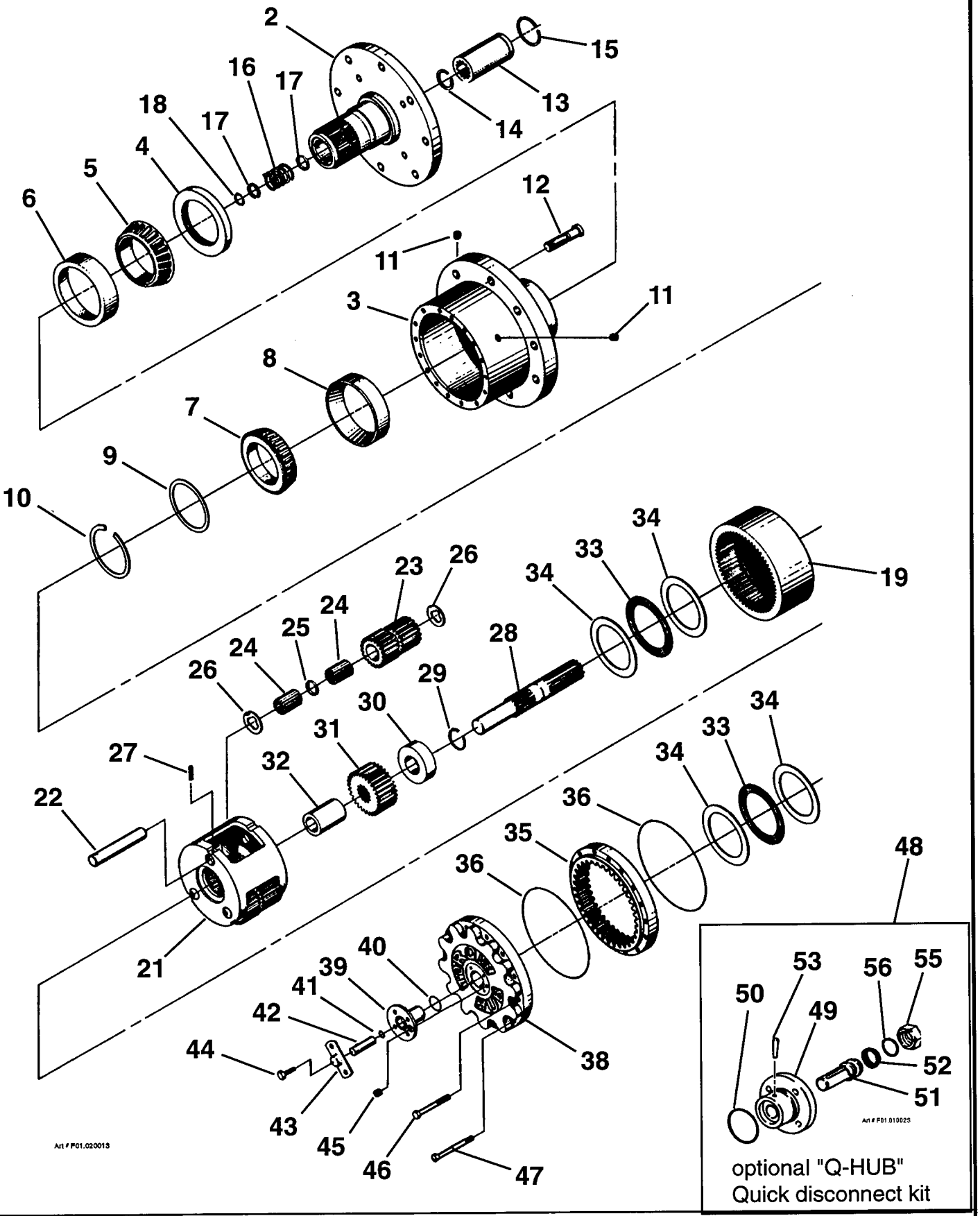



| TITLE | TORQUE HUB (43:1) (PLATE 2 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV.05/16/91 | PART NO. 02-000600 | PLATE NO. F01.02 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| | | | **Note:** Identification tag (on item 34) reads "**W3BX50354 ZB**" | |
| 1 | | | HUB AND SPINDLE ASSEMBLY | 1 |
| 2 | 02-010504 | | SPINDLE | 1 |
| 3 | 02-010503 | | HUB | 1 |
| 4 | 02-000605 | | SEAL, HUB | 1 |
| 5 | 02-000617 | | CONE AND ROLLER, HUB BEARING (inner) | 1 |
| 6 | 02-000632 | | CUP, HUB BEARING (inner) | 1 |
| 7 | 02-000616 | | CONE AND ROLLER, HUB BEARING (outer) | 1 |
| 8 | 02-000633 | | CUP, HUB BEARING (outer) | 1 |
| 9 | 02-000623 | | SPACER, HUB | 1 |
| 10 | 02-000606 | | RING, RETAINING | 1 |
| 11 | | | PLUG, PIPE | 2 |
| 12 | 02-010502 | | STUD, WHEEL MOUNTING | 10 |
| 13 | 02-000615 | | COUPLING, MOTOR | 1 |
| 14 | 02-000626 | | RING, RETAINING | 1 |
| 15 | 02-000619 | | RING, RETAINING | 1 |
| 16 | 02-000625 | | SPRING | 1 |
| 17 | 02-000627 | | WASHER | 2 |
| 18 | 02-000626 | | RING, RETAINING | 1 |
| 19 | 02-000624 | | GEAR, INTERNAL | 1 |
| 20 | 02-010501 | | CARRIER ASSEMBLY, PLANETARY | 1 |
| 21 | | | CASE, CARRIER | 1 |
| 22 | 02-000635 | | SHAFT, PLANET | 3 |
| 23 | 02-000637 | | GEAR, PLANET | 3 |
| 24 | 02-000630 | | ROLLER, NEEDLE | 84 |
| 25 | 02-010506 | | SPACER | 3 |
| 26 | 02-010505 | | WASHER, THRUST | 6 |
| 27 | 02-000636 | | PIN, ROLL | 3 |
| 28 | 02-004801 | | SHAFT, INPUT | 1 |
| 29 | 02-000619 | | RING, RETAINING | 1 |
| 30 | | | SPACER, THRUST | 1 |
| 31 | 02-004803 | | GEAR, INPUT | 1 |
| 32 | 02-004802 | | SPACER, THRUST | 1 |
| 33 | 02-000610 | | BEARING, THRUST | 2 |
| 34 | 02-000609 | | WASHER, THRUST | 4 |
| 35 | 02-000634 | | GEAR, RING | 1 |
| 36 | 02-000607 | | O-RING | 2 |

| | | | | |
|---|---|---|---|---|
| **TITLE** | TORQUE HUB (54:1) (PLATE 1 OF 2) | | | |
| **PLATE NO.** | F01.07 | **SIMON AERIALS INC.** | REV. 07 JUN., 1994 | **PART NO.** 02-010500 |

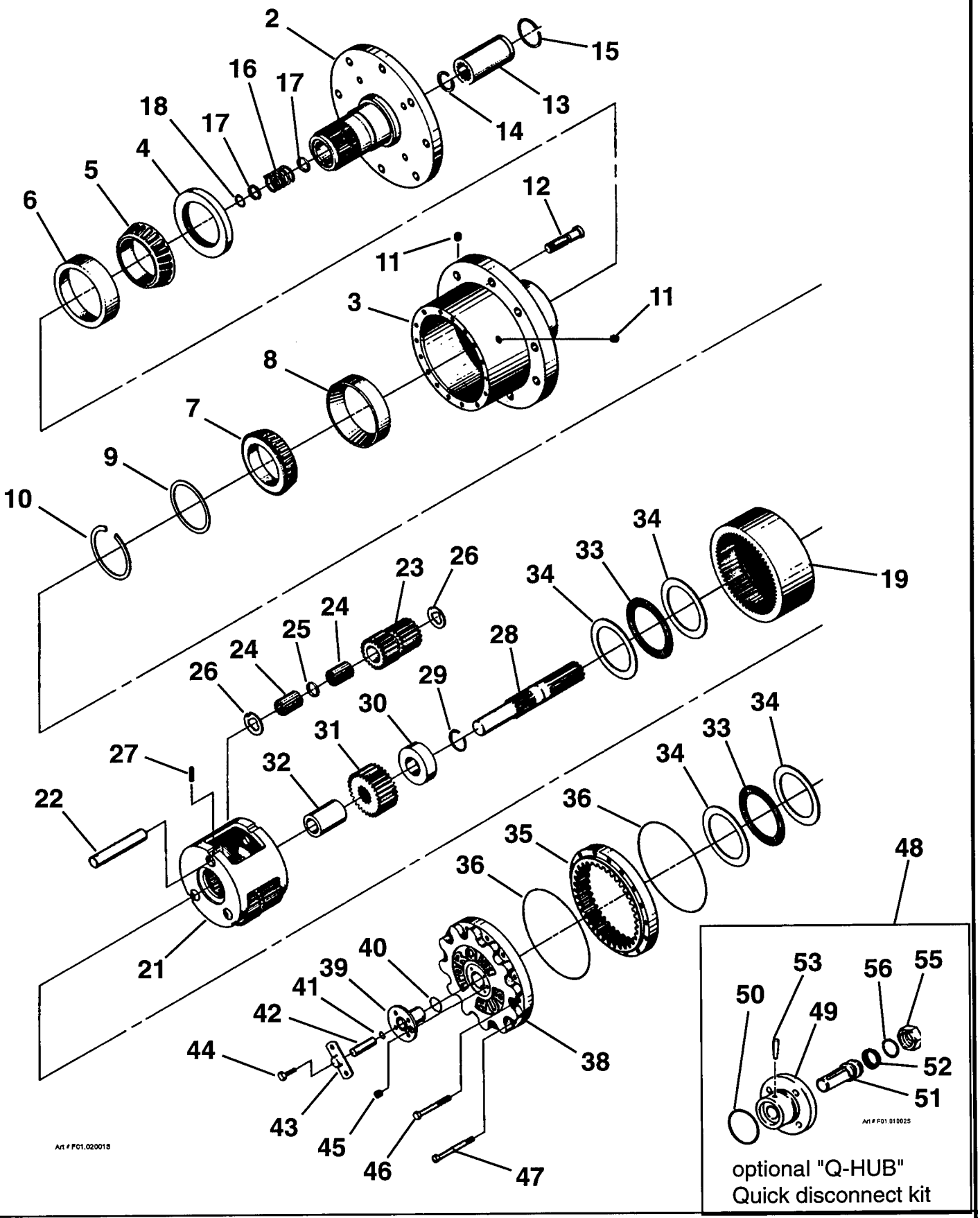



| TITLE | TORQUE HUB (54:1) (PLATE 1 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 07 JUN., 1994 | PART NO. 02-010500 | PLATE NO. F01.07 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 37 | | | COVER ASSEMBLY, HUB | 1 |
| 38 | 02-000618 | | COVER, HUB | 1 |
| 39 | 02-000601 | | CAP, COVER | 1 |
| | | | **Note:** Items 39 through 45 are for units without "Q-hub" quick-disconnect option. | |
| 40 | 02-000608 | | "O"-RING | 1 |
| 41 | 02-000512 | | "O"-RING | 1 |
| 42 | 02-000603 | | ROD, DISCONNECT | 1 |
| 43 | 02-000602 | | CAP, DISCONNECT | 1 |
| 44 | | | BOLT | 4 |
| 45 | | | PLUG, PIPE (Oil level check) | 1 |
| 46 | | | BOLT | 8 |
| 47 | 02-000621 | | BOLT, SHOULDER | 4 |
| | | | The following optional kit may be installed on your hub: | |
| 48 | 02-000604 | | CAP KIT, COVER (quick-disconnect "Q-hub" kit) | 1 |
| 49 | | | CAP, QUICK DISCONNECT | 1 |
| 50 | 02-000608 | | "O"-RING | 1 |
| 51 | | | ROD, DISCONNECT | 1 |
| 52 | 02-000523 | | SEAL, DISCONNECT ROD | 1 |
| 53 | 02-000639 | | PIN, ROLL | 1 |
| 54 | 02-000519 | | CAP, COVER | 1 |
| 55 | 02-000514 | | CAP, HEX | 1 |
| 56 | 02-000513 | | "O"-RING | 1 |

| TITLE | TORQUE HUB (54:1) (PLATE 2 OF 2) | | |
|---|---|---|---|
| PLATE NO. F01.07 | **SIMON AERIALS INC.** | REV. 07 JUN., 1994 | PART NO. 02-010500 |

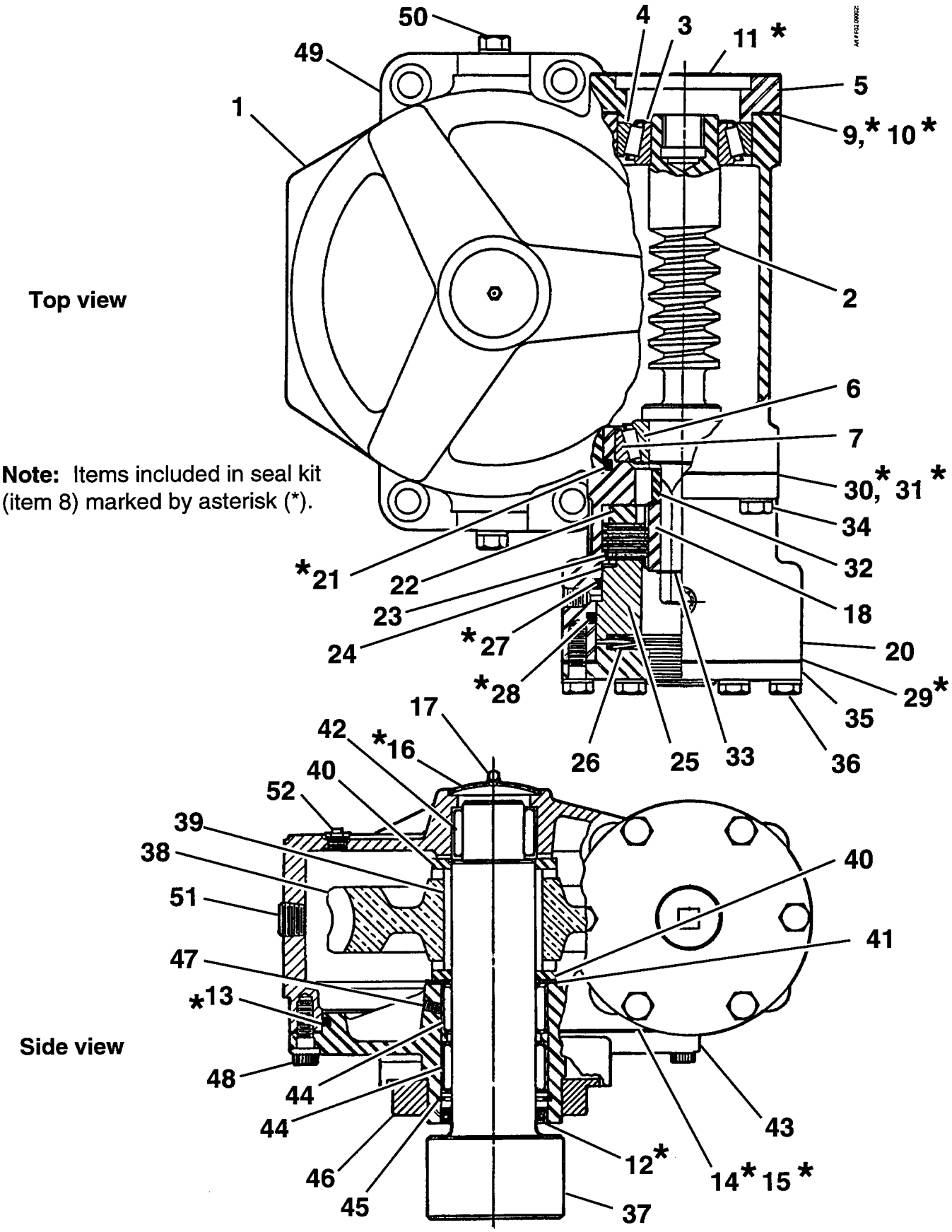



| TITLE | TORQUE HUB (54:1) (PLATE 2 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 07 JUN., 1994 | PART NO. 02-010500 | PLATE NO. F01.07 | |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | HOUSING, SWING REDUCER | 1 |
| 2 | | | SHAFT, WORM | 1 |
| 3 | 02-000423 | | CONE AND ROLLER, BEARING (1-5/8" [41 mm] bore) | 2 |
| 4 | | | CUP, BEARING | 2 |
| 5 | | | RETAINER, INPUT BEARING | 1 |
| 6 | 02-000421 | | CONE AND ROLLER, BEARING (1" [25 mm] bore) | 2 |
| 7 | | | CUP, BEARING | 2 |
| 8 | 02-009101 | | SEAL KIT, SWING REDUCER<br>(Some items in seal kit are also part of brake assembly. | |
| | | | Items in kit indicated by asterisks [*]) | 1 |
| 9 | 02-000409 | * | GASKET, BEARING RETAINER [1/64" (0.4 mm)] | 1 |
| 10 | 02-000410 | * | GASKET, BEARING RETAINER [1/32" (0.8 mm)] | 1 |
| 11 | | * | GASKET, MOTOR MOUNTING | 1 |
| 12 | | * | SEAL, OUTPUT SHAFT | 1 |
| 13 | 02-000430 | * | "O"-RING, COVER | 1 |
| 14 | 02-000411 | * | GASKET, COVER (1/64" [0.4 mm] red fiber) | A.R. |
| 15 | 02-000412 | * | GASKET, COVER (1/32" [0.8 mm] red fiber) | A.R. |
| 16 | 02-000414 | * | PLUG, EXPANSION (drilled for grease fitting) | 1 |
| 17 | | | FITTING, GREASE | 1 |
| 18 | | | DRIVER, BRAKE | 1 |
| 19 | 02-009110 | | BRAKE ASSEMBLY | 1 |
| 20 | | | HOUSING, BRAKE | 1 |
| 21 | 02-000429 | * | "O"-RING, BRAKE HOUSING | 1 |
| 22 | | | SPACER, BRAKE | 1 |
| 23 | 02-005104 | | PLATE, DRIVER | 5 |
| 24 | 02-005103 | | DISC, BRAKE | 6 |
| 25 | 02-009107 | | PISTON | 1 |
| 26 | 02-009109 | | SPRING | 2 |
| 27 | 02-009140 | * | "O"-RING | 1 |
| 28 | 02-009141 | * | "O"-RING | 1 |
| 29 | | * | GASKET, BRAKE COVER [1/32" (0.8 mm)] | 1 |
| 30 | 02-000409 | * | GASKET, BRAKE HOUSING (1/64" [0.4 mm]) | 1 |
| 31 | 02-000410 | * | GASKET, BRAKE HOUSING [1/32" (0.8 mm)] | 1 |
| 32 | | | SPACER, BRAKE DRIVER | 1 |
| 33 | | | RING, SNAP | 2 |
| 34 | | | CAP SCREW, HEX HEAD (7/16"-14 x 1-1/2" long) | 4 |
| 35 | | | COVER, BRAKE | 1 |
| 36 | | | CAP SCREW, HEX HEAD (7/16"-14 x 1-1/4" long) | 6 |

| | | | | | |
|---|---|---|---|---|---|
| TITLE | SWING REDUCER (PLATE 1 OF 2) | | | | |
| PLATE NO. | F02.09 | **SIMON AERIALS INC.** | REV. 25 AUG., 1994 | PART NO. | 02-009100 |

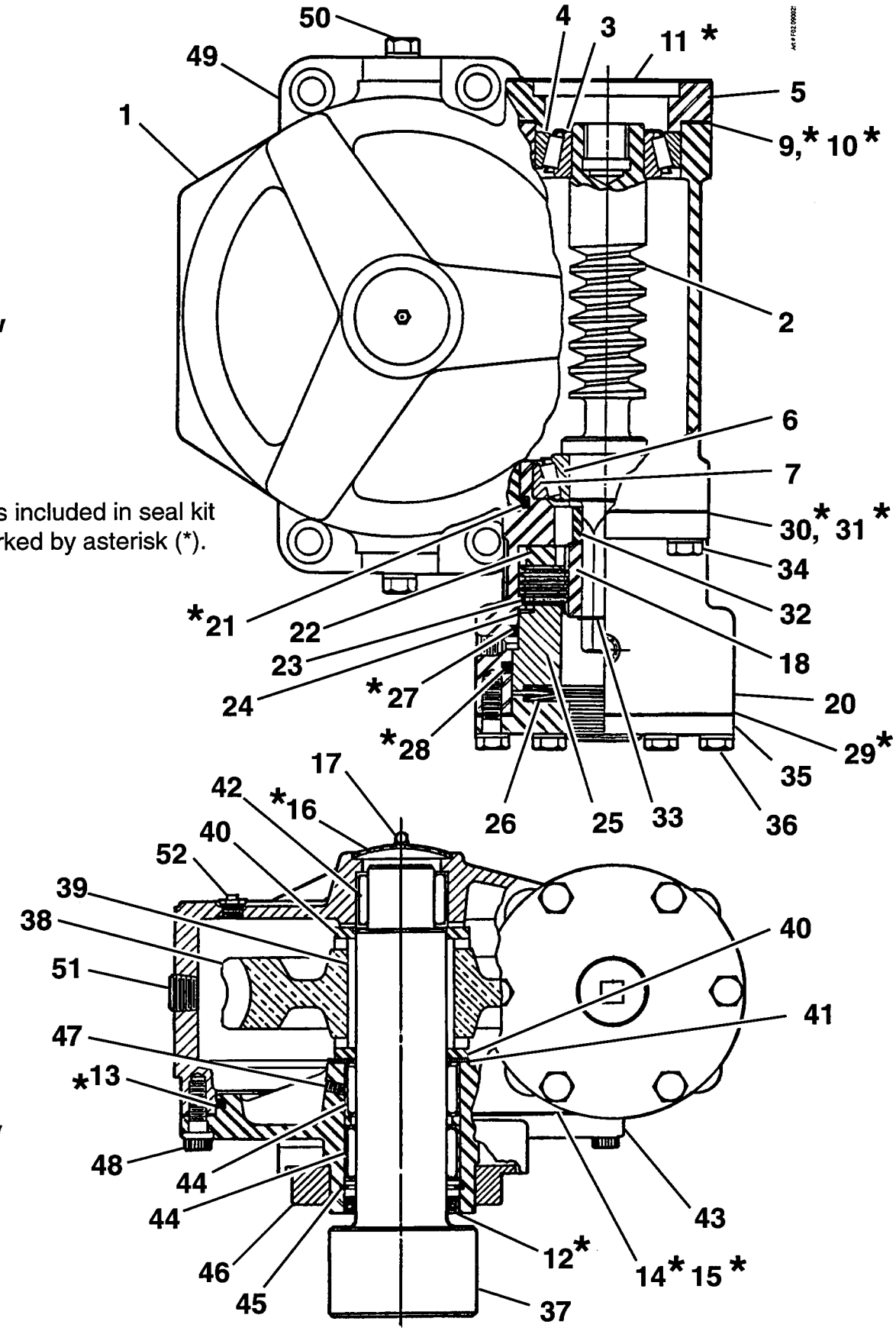



| TITLE | SWING REDUCER (PLATE 1 OF 2) | |
|---|---|---|
| **SIMON AERIALS INC.** REV. 25 AUG., 1994 | PART NO. 02-009100 | PLATE NO. F02.09 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 37 | 02-009103 | | SHAFT, OUTPUT | 1 |
| 38 | | | GEAR, WORM | 1 |
| 39 | | | KEY | 2 |
| 40 | 02-009111 | | RING, THRUST | 2 |
| 41 | 02-009102 | | SPACER | 1 |
| 42 | 02-000427 | | BEARING, ROLLER (1-1/2" [38 mm] I.D.) | 1 |
| 43 | 02-009108 | | COVER, SWING REDUCER | 1 |
| 44 | | | BEARING, ROLLER | 2 |
| 45 | | | RING, SNAP | 1 |
| 46 | | | RING, ECCENTRIC | 1 |
| 47 | | | SET SCREW (not used) | |
| 48 | | | CAP SCREW (Ferry, 7/16"-14 x 1" long) | 6 |
| 49 | | | BRACKET | 1 |
| 50 | | | CAP SCREW, HEX HEAD (7/16"-14 x 1" long) | 4 |
| 51 | | | PLUG, PIPE | 1 |
| 52 | 02-000439 | | PLUG, VENT | 1 |

| | | | | |
|---|---|---|---|---|
| TITLE | SWING REDUCER (PLATE 2 OF 2) | | | |
| PLATE NO. | F02.09 | **SIMON AERIALS INC.** | REV. 25 AUG., 1994 | PART NO. 02-009100 |




| TITLE | SWING REDUCER (PLATE 2 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 25 AUG., 1994 | PART NO. 02-009100 | PLATE NO. F02.09 | |

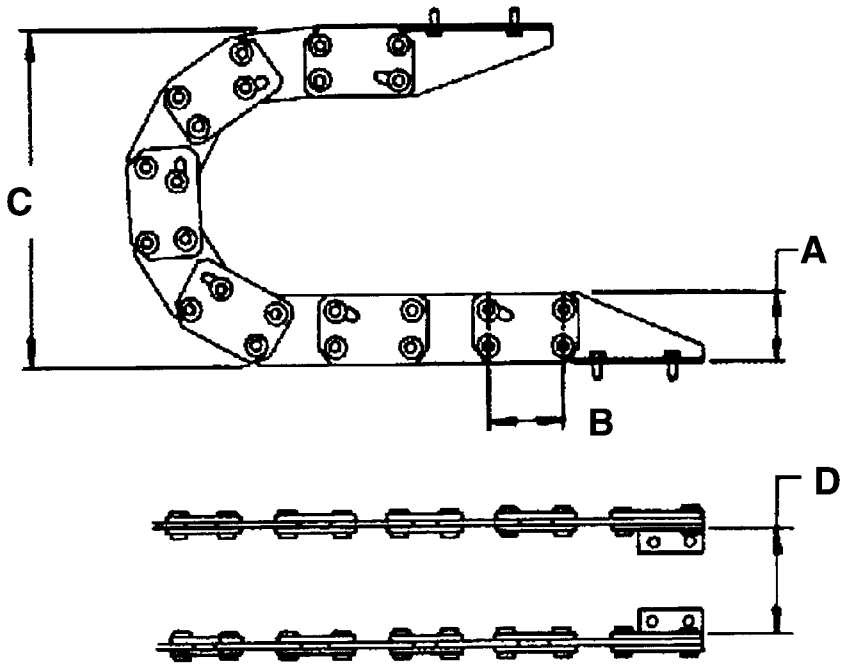
# PARTS LIST

| Section Number | Part Number | Track Style | Ref. Dimension "A" | "B" | "C" | "D" | No. of Links | Model Usage (ref. only) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Gemco Hose Track:** | | | | | | | | | |
| F 3.1 | 08-000600 | EE | 2-3/4" | 3" | 13-1/4" | 6" | 97 | | not current production |
| - - - - - | 08-000601 | EE | 2-3/4" | 3" | 13-1/4" | 6" | - - - | | **3' section of style "EE"** |
| F 3.2 | 08-001000 | CC | 2-3/4" | 3" | 13-1/4" | 6" | 93 | | not current production |
| F 3.3 | 08-001600 | 2A | 1-3/4" | 2-1/2" | 13-1/4" | 6" | 65 | | not current production |
| - - - - - | 08-001615 | 2A | 1-3/4" | 2-1/2" | 13-1/4" | 6" | - - - | | **3' section of style "2A"** |
| F 3.4 | 08-003600 | 2A | 1-3/4" | 2-1/2" | 13-1/4" | 6" | 77 | | not current production |
| - - - - - | 08-003700 | 3CM | 4" | 6" | 13-1/4" | 6" | 19 | | not current production |
| F 3.5 | 08-005000 | EE | 2-3/4" | 3" | 13-1/4" | 6" | 93 | | not current production |
| F 3.6 | 08-010400 | EE | 2-3/4" | 3" | 13-1/4" | 6" | 63 | | not current production |
| **Gleason Type 25, 35, 45 Hose Track:** | | | | | | | | | |
| F 3.25 | 08-000400 | 25 | 1-3/4" | 2-1/2" | 13" | 6" | 76 | | |
| F 3.26 | 08-000700 | 25 | 1-3/4" | 2-1/2" | 13" | 4" | 44 | MP 40 Elec.Prop.<br>MP 40 Hydraport | |
| - - - - - | 08-000701 | 25 | 1-3/4" | 2-1/2" | 13" | 4" | - - - | | **3' section of style "25" (when dim. "C" = 13" and dim. "D" = 4")** |
| F 3.27 | 08-000900 | 25 | 1-3/4" | 2-1/2" | 13" | 6" | 14 | | |
| F 3.28 | 08-008900 | 45 | 3-3/4" | 5" | 16" | 6" | 65 | | |
| F 3.29 | 08-009100 | 25 | 1-3/4" | 2-1/2" | 13" | 4" | 66 | | |
| F 3.30 | 08-009500 | 45 | 3-3/4" | 5" | 16" | 6" | 48 | | |
| F 3.31 | 08-009800 | 45 | 3-3/4" | 5" | 16" | 6" | 53 | | |
| F 3.32 | 08-011800 | 25 | 1-3/4" | 2-1/2" | 8-5/8" | 4" | 29 | | |
| - - - - - | 08-011801 | 25 | 1-3/4" | 2-1/2" | 8-5/8" | 4" | - - - | | **3' section of style "25" (with dim. "C" = 8-5/8" and dim. "D" = 4")** |

**Gleason Type 25, 35, 45, continued on next sheet**

**TITLE** HOSE TRACK ASSEMBLIES (PLATE 1 OF 3)

**PLATE NO.** F03 ALL | **SIMON AERIALS INC.** REV. 17 FEB., 1994 | **PART NO.**




**GEMCO**

**for Gleason Type 25, 35, 45, see next sheet**

| TYPE | LINK CONSTRUCTION | | TYPE | LINK CONSTRUCTION | |
|---|---|---|---|---|---|
| 1A | | Not used | FF | | Not used |
| 2A | | | GG | | Not used |
| BB | | Not used | 2CM | | Not used |
| CC | | | 3CM | | |
| EE | | | | | |

**NOTE:**

Three (3) foot repair sections of most styles are available; refer to the shaded sections of the chart. Three (3) foot repair sections of styles not shown are available upon request; please refer to the part number and type matching your requirements when ordering.

To select hose track that is not specifically identified in the chart:

(1) Determine the make, type and size of link construction.

(2) Refer to the parts list and match the type to the overall height (C), width (D) and number of links.

| TITLE | HOSE TRACK ASSEMBLIES (PLATE 1 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 17 FEB., 1994 | | PART NO. | PLATE NO. F03 ALL |

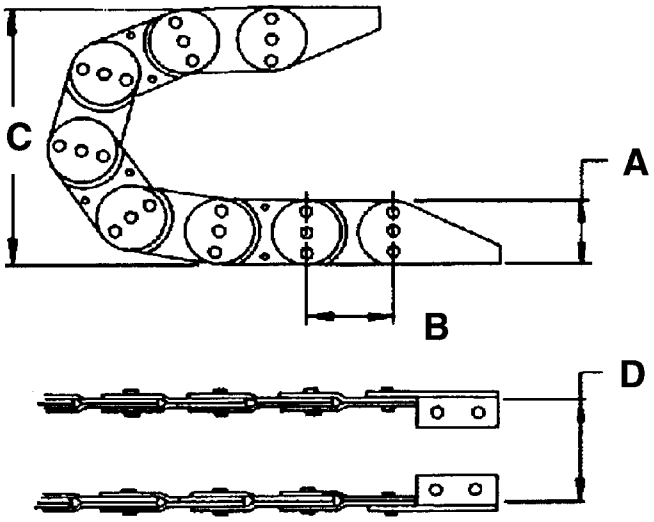
# PARTS LIST

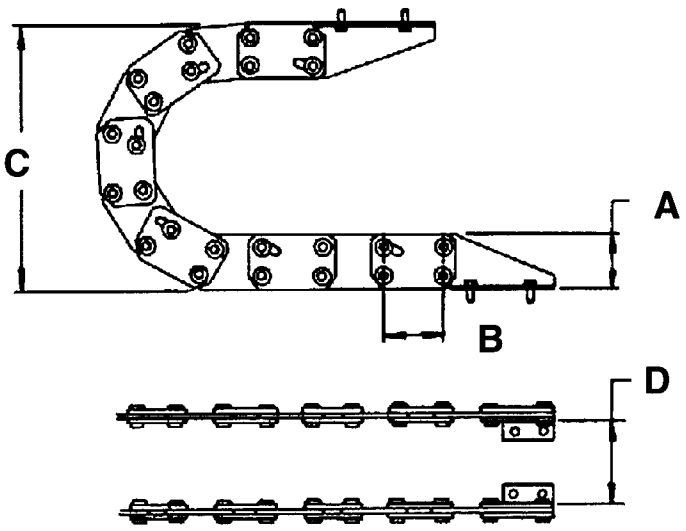
| Section Number | Part Number | Track Style | Ref. Dimension "A" | "B" | "C" | "D" | No. of Links | Model Usage (ref. only) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Gleason Type 25, 35, 45 Hose Track (continued):** | | | | | | | | | |
| F 3.33 | 08-011900 | 45 | 3-3/4" | 5" | 16" | 6" | 43 | MPH 60 Full Hyd. | not current production |
| | | | | | | | | MPH 60 Hydraport | not current production |
| - - - - - | 08-011901 | 45 | 3-3/4" | 5" | 16" | 6" | - - - | | **3' section of style "45" (when dim. "C" = 16")** |
| F 3.34 | 08-012400 | 45 | 3-3/4" | 5" | 16" | 6" | 63 | MP 70 Full Hyd. | not current production |
| | | | | | | | | MP 70 Hydraport | not current production |
| | | | | | | | | MP 80 All | not current production |
| | | | | | | | | MPH 80 Full Hyd. | not current production |
| | | | | | | | | MP 95 All | not current production |
| | | | | | | | | MP 110 (Inner) All | not current production |
| F 3.35 | 08-013000 | 25 | 1-3/4" | 2-1/2" | 8-5/8" | 4" | 44 | | |
| F 3.36 | 08-013400 | 25 | 1-3/4" | 2-1/2" | 8-5/8" | 4" | 69 | | |
| F 3.37 | 08-013500 | 25 | 1-3/4" | 2-1/2" | 8-5/8" | 4" | 39 | | |
| F 3.38 | 08-014900 | 25 | 1-3/4" | 2-1/2" | 8-5/8" | 4" | 81 | | |
| F 3.39 | 08-015100 | 45 | 3-3/4" | 5" | 16" | 6" | 45 | | |
| F 3.40 | 08-056000 | 35 | 2-5/8" | 3-3/4" | 26" | 6" | 96 | | |
| - - - - - | 08-056001 | 35 | 2-5/8" | 3-3/4" | 26" | 6" | - - - | | **3' section of style "35" (when dim. "C" = 26")** |
| F 3.41 | 08-056100 | 45 | 3-3/4" | 5" | 27" | 6" | 39 | MP 110 (Outer) All | not current production |
| - - - - - | 08-056101 | 45 | 3-3/4" | 5" | 27" | 6" | - - - | | **3' section of style "45" (when dim. "C" = 27")** |
| **A and A "Gortite" Hose Track:** | | | | | | | | | |
| - - - - - | 08-056200 | | 2" | 2-1/2" | 9-7/8" | 4" | 83 | | not current production |
| - - - - - | 08-056201 | | 2" | 2-1/2" | 9-7/8" | 4" | 15 | | **3' section, style "A+A"** |
| **Gleason Type 25, 35, 45 Hose Track (continued):** | | | | | | | | | |
| F 3.42 | 08-056700 | 35 | 2-5/8" | 3-3/4" | 15" | 6" | 55 | | |
| F 3.43 | 08-058300 | 35 | 2-5/8" | 3-3/4" | 15" | 6" | 29 | MP 40 Full Hyd. | not current production |
| | | | | | | | | Trailblazer 40 | current production |
| - - - - - | 08-058301 | 35 | 2-5/8" | 3-3/4" | 15" | 6" | - - - | | **3' section of style "35" (when dim. "C" = 15")** |
| F 3.44 | 08-058400 | 35 | 2-5/8" | 3-3/4" | 15" | 6" | 56 | MP 60 Full Hyd. | not current production |
| F 3.45 | 08-060200 | 25 | 1-3/4" | 2-1/2" | 13" | 6" | 81 | MP 60, MPN 60, and MP 60 Z Electro-Prop. or Hydraport | |
| - - - - - | 08-060201 | 25 | 1-3/4" | 2-1/2" | 13" | 6" | - - - | | **3' section of style "25" (when dim. "C" = 13" and dim. "D" = 6")** |
| F 3.46 | 08-062100 | 35 | 2-5/8" | 3-3/4" | 15" | 6" | 58 | | |
| - - - - - | 08-063500 | 35 | 2-5/8" | 3-3/4" | 15" | 6" | 19 | | |
| - - - - - | 08-069100 | 35 | 2-5/8" | 3-3/4" | 15" | 6" | 33 | | |
| - - - - - | 08-070200 | | | | | | | MPN 40 Full Hyd. (with 3 Pc. Boom) | not current production |

**for Gleason Type 25E, 35E, 45E, see next sheet**

**TITLE** HOSE TRACK ASSEMBLIES (PLATE 2 OF 3)

**PLATE NO.** F03 ALL | **SIMON AERIALS INC.** REV. 17 FEB., 1994 | **PART NO.**




**for Gleason Type 35E, 45E, see next sheet**

**GLEASON** **A AND A**

| TYPE | LINK CONSTRUCTION |
|---|---|
| 25 |  |
| 35 |  |
| 45 |  |

| TYPE | LINK CONSTRUCTION |
|---|---|
| |  |
| | |

**NOTE:**

Three (3) foot repair sections of most styles are available; refer to the shaded sections of the chart. Three (3) foot repair sections of styles not shown are available upon request; please refer to the part number and type matching your requirements when ordering.

To select hose track that is not specifically identified in the chart:

(1) Determine the make, type and size of link construction.

(2) Refer to the parts list and match the type to the overall height (C), width (D) and number of links.

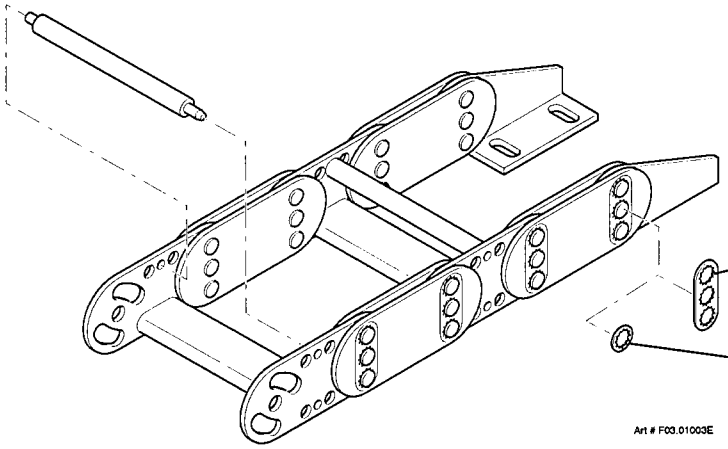
| TITLE | HOSE TRACK ASSEMBLIES (PLATE 2 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 17 FEB., 1994 | | PART NO. | PLATE NO. F03 ALL |

# PARTS LIST

| Section Number | Part Number | Track Style | Ref. Dimension "A" | "B" | "C" | "D" | No. of Links | Model Usage (ref. only) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Gleason Type 25E, 35E, 45E Hose Track:** | | | | | | | | | |
| - - - - - | 08-072600 | 35E | 2-3/4" | 3-3/4" | 13-1/8" | 6" | 29 | MP 40 Full Hyd. Trailblazer 40 | |
| - - - - - | 08-072602 | 35E | 2-3/4" | 3-3/4" | 13-1/8" | 6" | - - - | | 3' section, style 35E |
| - - - - - | 08-072700 | 35E | 2-3/4" | 3-3/4" | 13-1/8" | 6" | 55 | MP 60, MPN 60, and MP 60 Z Full Hydraulic | |
| - - - - - | 08-072701 | 35E | - - - | - - - | - - - - | - - - | - - - | for Field Service | Pushnut (single type) |
| - - - - - | 08-072800 | 45E | 3-3/4" | 5" | 15-1/8" | 6" | 61 | MP 80 All | |
| - - - - - | 08-072801 | 45E | - - - | - - - | - - - - | - - - | - - - | for Field Service | Pushnut (single type) |
| - - - - - | 08-072802 | 45E | 3-3/4" | 5" | 15-1/8" | 6" | - - - | | 3' section, style 45E |
| - - - - - | 08-072900 | 35E | 2-3/4" | 3-3/4" | 13-1/8" | 6" | 58 | Trailblazer 60 | Mounting one end |
| - - - - - | 08-073000 | 35E | 2-3/4" | 3-3/4" | 13-1/8" | 6" | 32 | MPH 42 Full Hyd. | |
| - - - - - | 08-073100 | 35E | 2-3/4" | 3-3/4" | 13-1/8" | 6" | 35 | MPN 40 Full Hyd. (with 3 Pc. Boom) | |
| - - - - - | 08-073200 | 35E | 2-3/4" | 3-3/4" | 13-1/8" | 6" | 39 | MP 50 Full Hyd. | |
| - - - - - | 08-073300 | 45E | 3-3/4" | 5" | 15-1/8" | 6" | 45 | MPH 60 Full Hyd. MP 70 Hydraport | |
| - - - - - | 08-073400 | 45E | 3-3/4" | 5" | 15-1/8" | 6" | 54 | MP 70 Full Hyd. MP 70 Hydraport | |
| - - - - - | 08-073500 | 45E | 3-3/4" | 5" | 15-1/8" | 6" | 59 | MPH 80 Full Hyd. MPH 80 Hydraport | |
| - - - - - | 08-073600 | 45E | 3-3/4" | 5" | 15-1/8" | 6" | 64 | MP 110 (Inner) | All without Keel Boom |
| - - - - - | 08-073700 | 45E | 3-3/4" | 5" | 15-1/8" | 6" | 69 | MP 95 All | |
| - - - - - | 08-076700 | 25E | 1-3/4" | 2-1/2" | 13-1/8" | 4" | 44 | MP 40 Hydraport or Electro-Prop. | |
| - - - - - | 08-076800 | 25E | 1-3/4" | 2-1/2" | 13-1/8" | 4" | 54 | MP 50 Hydraport or Electro-Prop. | |
| - - - - - | 08-076900 | 25E | 1-3/4" | 2-1/2" | 13-1/8" | 4" | 81 | MP 60, MPN 60, and MP 60 Z Hydraport or Electro-Prop. | |
| - - - - - | Call Simon | 25E | - - - | - - - | - - - - | - - - | - - - | for Field Service | Pushnut (single type) |
| - - - - - | Call Simon | 25E | 1-3/4" | 2-1/2" | 13-1/8" | 4" | - - - | | 3' section, style 25E |
| - - - - - | 08-077000 | 45E | 3-3/4" | 5" | 15-1/8" | 6" | 39 | MP 110 (Outer) | All without Keel Boom |
| - - - - - | 08-077200 | 45E | 3-3/4" | 5" | 26-1/8" | 4" | 39 | MP 110 (Outer) | All with Keel Boom |
| - - - - - | 08-077300 | 45E | 3-3/4" | 5" | 15-1/8" | 4" | 64 | MP 110 (Inner) | All with Keel Boom |

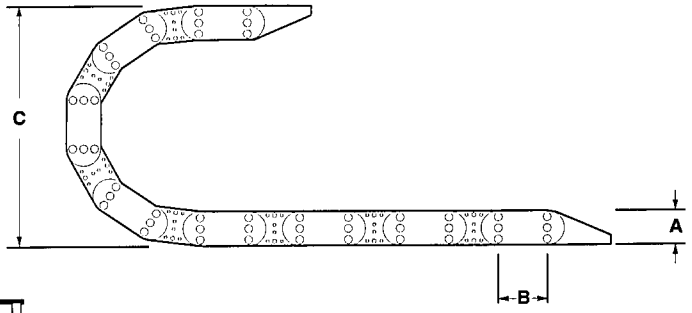
**TITLE** HOSE TRACK ASSEMBLIES (PLATE 3 OF 3)

**PLATE NO.** F03 ALL | **SIMON AERIALS INC.** | REV. 26 AUG., 1994 THIS SHEET ONLY | **PART NO.**



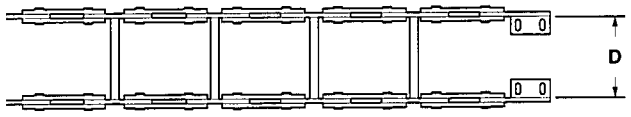

**Triple Pushnut used for factory installation only.**

**Single Pushnut is available for service. See chart.**




## GLEASON

| TYPE | LINK CONSTRUCTION |
|---|---|
| 35E | |
| 45E | |
| | |




Art # F03.01002E

**NOTE:**

Three (3) foot repair sections of most styles are available; refer to the shaded sections of the chart. Three (3) foot repair sections of styles not shown are available upon request; please refer to the part number and type matching your requirements when ordering.

To select hose track that is not specifically identified in the chart:

(1) Determine the make, type and size of link construction.

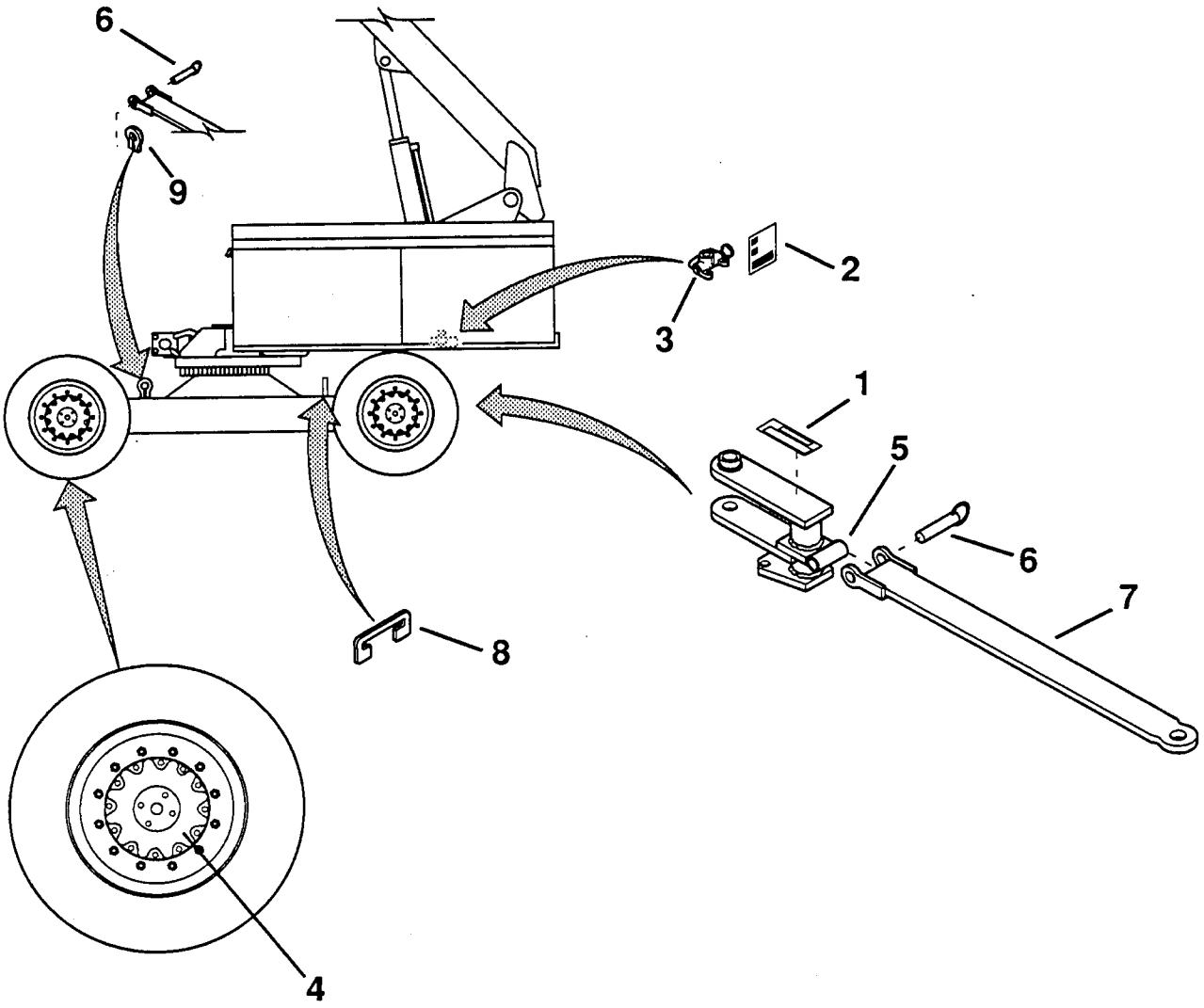
(2) Refer to the parts list and match the type to the overall height (C), width (D) and number of links.

| TITLE | HOSE TRACK ASSEMBLIES (PLATE 3 OF 3) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** REV. 17 FEB., 1994 | | PART NO. | PLATE NO. F03 ALL |

# PARTS LIST

| ITEM | PART NO | SEE SECT. | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 10-012700 | | DECAL (towing instructions) | 2 |
| 2 | 10-107200 | | DECAL (pull out to disengage steer system) | 2 |
| 3 | 01-010900 | | VALVE, SELECTOR (3/8"-18 NPT, 3000 lb/in$^2$ at 20 gpm) | 1 |
| 4 | 02-000604 | | HUB QUICK DISCONNECT ASSEMBLY | 2 |
| 5 | 2103600 | | TUBE, CENTER STEER ARM (weld to center steer arm) | 1 |
| 6 | 2108970 | | PIN, TOW BAR | 1 |
| 7 | 2098450 | | BAR, TOW | 1 |
| 8 | 2014357 | | BRACKET, TOW BAR STORAGE (weld to undercarriage) | 1 |
| 9 | 2014368 | | BRACKET, TOW BAR STORAGE (weld to undercarriage) | 2 |
| 10 | 3510920 | | HOSE ASSEMBLY (not shown) | 1 |
| 11 | 3516930 | | HOSE ASSEMBLY (not shown) | 2 |

| | | | |
|---|---|---|---|
| TITLE | TOWING EQUIPMENT (OPTIONAL) | | |
| PLATE NO. F05.01 | **SIMON AERIALS INC.** | ORIGIN 07/12/90 | PART NO. 3519960 |




| TITLE | TOWING EQUIPMENT (OPTIONAL) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** ORIGIN 07/12/90 | PART NO. 3519960 | PLATE NO. F05.01 | |

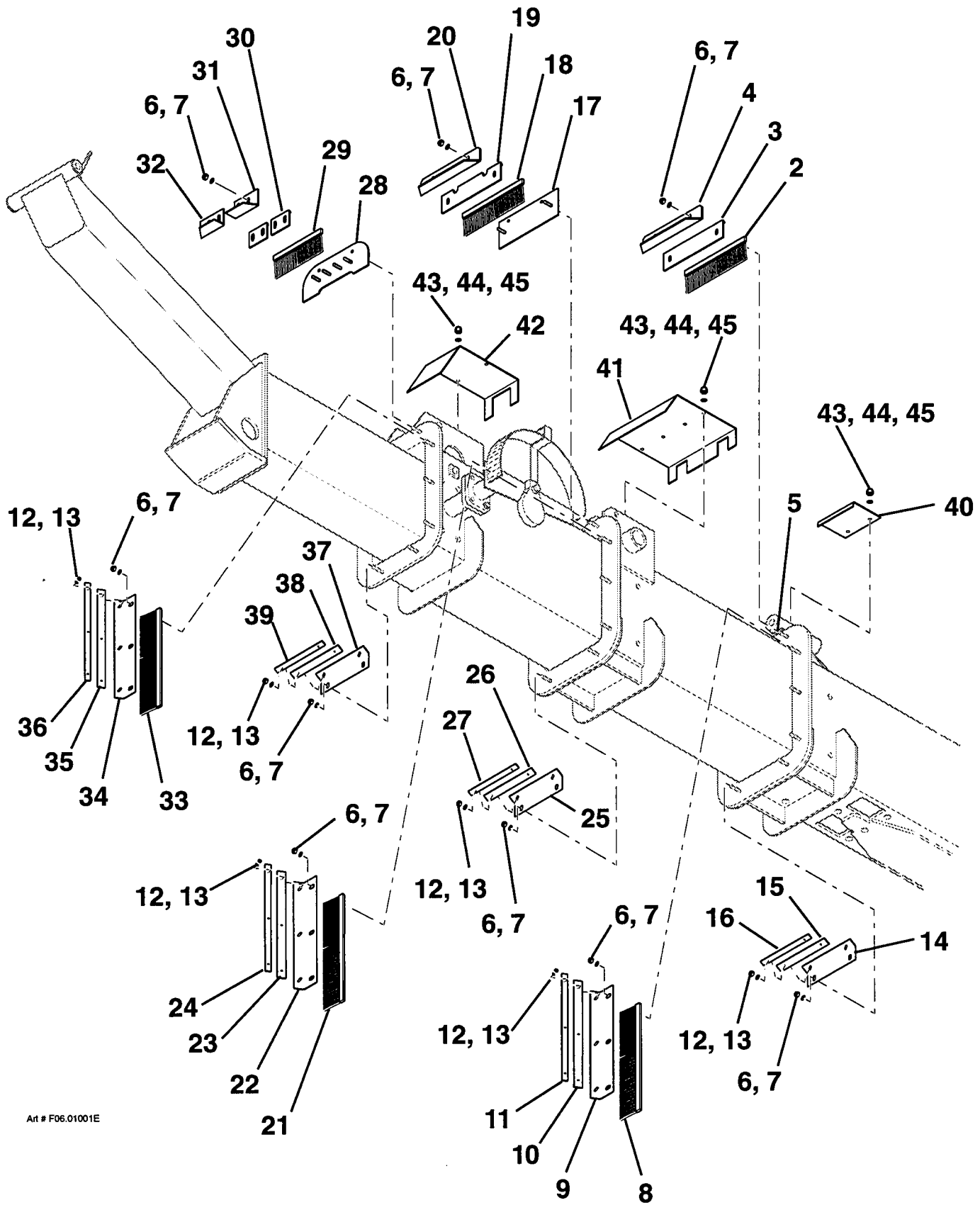
# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 3513980 | | BRUSH PACKAGE, MP 110 (except with Keel Boom) | 1 |
| 2 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. Cut to fit. 16" (406 mm) wide piece needed here.) | 1 |
| 3 | 2098800 | | CLAMP, BRUSH (Steel, 16" [406 mm] wide) | 1 |
| 4 | 2098820 | | SCRAPER, BOOM SEAL (Inner mid boom, top) (Brass, 16" [406 mm] wide) | 1 |
| 5 | 07-031011 | | STUD, WELD (1/2"-13 x 1-1/2") | 32 |
| 6 | 07-050018 | | NUT, LOCK (1/2"-13) | 32 |
| 7 | 07-062018 | | WASHER, FLAT (1/2") | 32 |
| 8 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. Cut to fit. 23" [584 mm] wide piece needed here.) | 2 |
| 9 | 2098700 | | CLAMP, BRUSH (Steel, 23" [584 mm] wide) | 2 |
| 10 | 2098480 | | WIPER, BOOM SEAL (Inner mid boom, side) (Rubber, 23" [584 mm] wide) | 2 |
| 11 | 2098510 | | CLAMP, BOOM SEAL WIPER (23" ]584 mm[ long) | 2 |
| 12 | 07-050016 | | NUT, STOP (3/8"-16) | 28 |
| 13 | 07-062016 | | WASHER, FLAT (3/8") | 28 |
| 14 | 2098680 | | BRACKET, BOOM SEAL WIPER (12" [305 mm] long) | 1 |
| 15 | 2098390 | | WIPER, BOOM SEAL (Inner mid boom, bottom) (Rubber, 12" [305 mm] wide) | 1 |
| 16 | 2098540 | | CLAMP, BOOM SEAL WIPER (12" [305 mm] long) | 1 |
| 17 | 2098780 | | EXTENSION, OUTER MID BOOM TOP | 1 |
| 18 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. Cut to fit. 14" [356 mm] wide piece needed here.) | 1 |
| 19 | 2131690 | | CLAMP, BRUSH (Steel, 16" [406 mm] wide) | 1 |
| 20 | 2098810 | | SCRAPER, BOOM SEAL (Outer mid boom, top) (Brass, 14" [356 mm] wide) | 1 |
| 21 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. Cut to fit. 19" [483 mm] wide piece needed here.) | 2 |
| 22 | 2098690 | | CLAMP, BRUSH (Steel, 19" [483 mm] wide) | 2 |
| 23 | 2098470 | | WIPER, BOOM SEAL (Outer mid boom, side) (Rubber, 19" [483 mm] wide) | 2 |
| 24 | 2098500 | | CLAMP, BOOM SEAL WIPER (19" [483 mm] long) | 2 |
| 25 | 2131760 | | BRACKET, BOOM SEAL WIPER (10" [254 mm] long) | 1 |
| 26 | 2131740 | | WIPER, BOOM SEAL (Outer mid boom, bottom) (Rubber, 10" [254 mm] wide) | 1 |
| 27 | 2131750 | | CLAMP, BOOM SEAL WIPER (10" [254 mm] long) | 1 |

(Brush Package continues on next page)

TITLE HOSTILE ENVIRONMENT PACKAGE OPTION, MP 110 (PLATE 1 OF 3)

PLATE NO. F06.01 | **SIMON AERIALS INC.** NEW 10 OCT., 1994 | PART NO.




TITLE HOSTILE ENVIRONMENT PACKAGE OPTION, MP 110 (PLATE 1 OF 3)

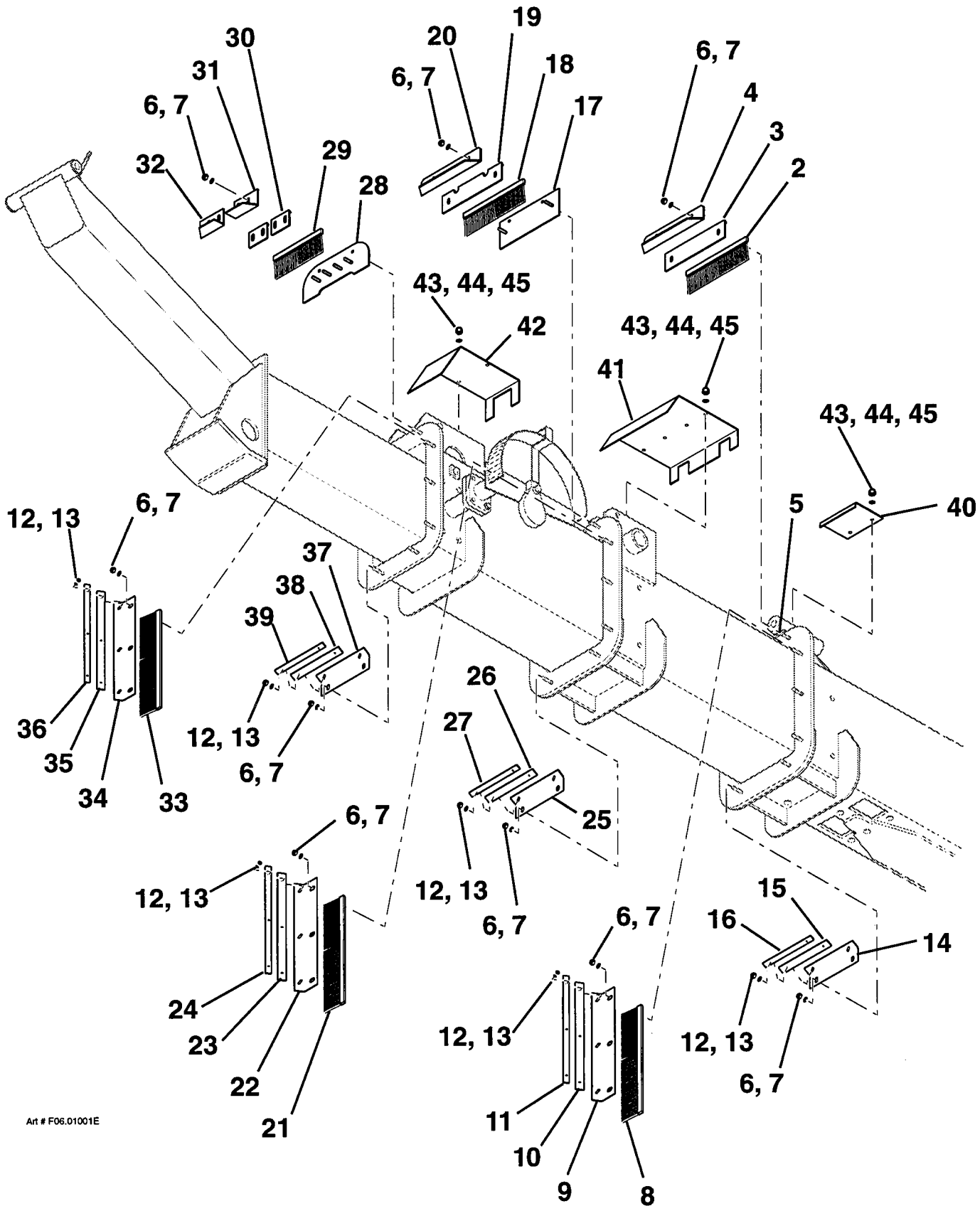
| SIMON AERIALS INC. NEW 10 OCT., 1994 | PART NO. | PLATE NO. F06.01 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | BRUSH PACKAGE, MP 110 (except Keel Boom) (continued) | |
| 28 | 2098880 | | EXTENSION, TIP BOOM TOP | 1 |
| 29 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. | |
| | | | Cut to fit. 12" [305 mm] wide piece needed here.) | 1 |
| 30 | 2098900 | | CLAMP, BRUSH (Steel, 4" [102 mm] wide) | 2 |
| 31 | 2098910 | | SCRAPER, BOOM SEAL (Tip boom, top, right) | |
| | | | (Brass, 5-3/4" [146 mm] wide) | 1 |
| 32 | 2100260 | | SCRAPER, BOOM SEAL (Tip boom, top, left) | |
| | | | (Brass, 5-3/4" [146 mm] wide) | 1 |
| 33 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. | |
| | | | Cut to fit. 14-1/2" [368 mm] wide piece needed here.) | 2 |
| 34 | 2098710 | | CLAMP, BRUSH (Steel, 14-1/2" [368 mm] wide) | 2 |
| 35 | 2098490 | | WIPER, BOOM SEAL (Tip boom, side) | |
| | | | (Rubber, 14-1/2" [368 mm] wide) | 2 |
| 36 | 2098520 | | CLAMP, BOOM SEAL WIPER (14-1/2" [368 mm] long) | 2 |
| 37 | 2098670 | | BRACKET, BOOM SEAL WIPER (8" [203 mm] long) | 1 |
| 38 | 2098400 | | WIPER, BOOM SEAL (Tip boom, bottom) | |
| | | | (Rubber, 8" [203 mm] wide) | 1 |
| 39 | 2098530 | | CLAMP, BOOM SEAL WIPER (8" [203 mm] long) | 1 |
| 40 | 2131980 | | COVER, CABLE (Base boom, top) (6-1/2" [165 mm] wide) | 1 |
| 41 | 2100690 | | COVER, CABLE (Inner mid boom, top) | |
| | | | (13-1/4" [337 mm] wide) | 1 |
| 42 | 2100660 | | COVER, CABLE (Outer mid boom, top) | |
| | | | (6-1/4" [159 mm] wide) | 1 |
| 43 | 07-031011 | | STUD, WELD (1/2"-13 x 1-1/2") | 32 |
| 44 | 07-062014 | | WASHER, FLAT (1/4") | 18 |
| 45 | 07-044014 | | NUT, ACORN (1/4"-20) | 18 |
| | | | (Brush Package continues on next page) | |

TITLE HOSTILE ENVIRONMENT PACKAGE OPTION, MP 110 (PLATE 2 OF 3)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| F06.01 | **SIMON AERIALS INC.** | NEW 10 OCT., 1994 | |




TITLE HOSTILE ENVIRONMENT PACKAGE OPTION, MP 110 (PLATE 2 OF 3)

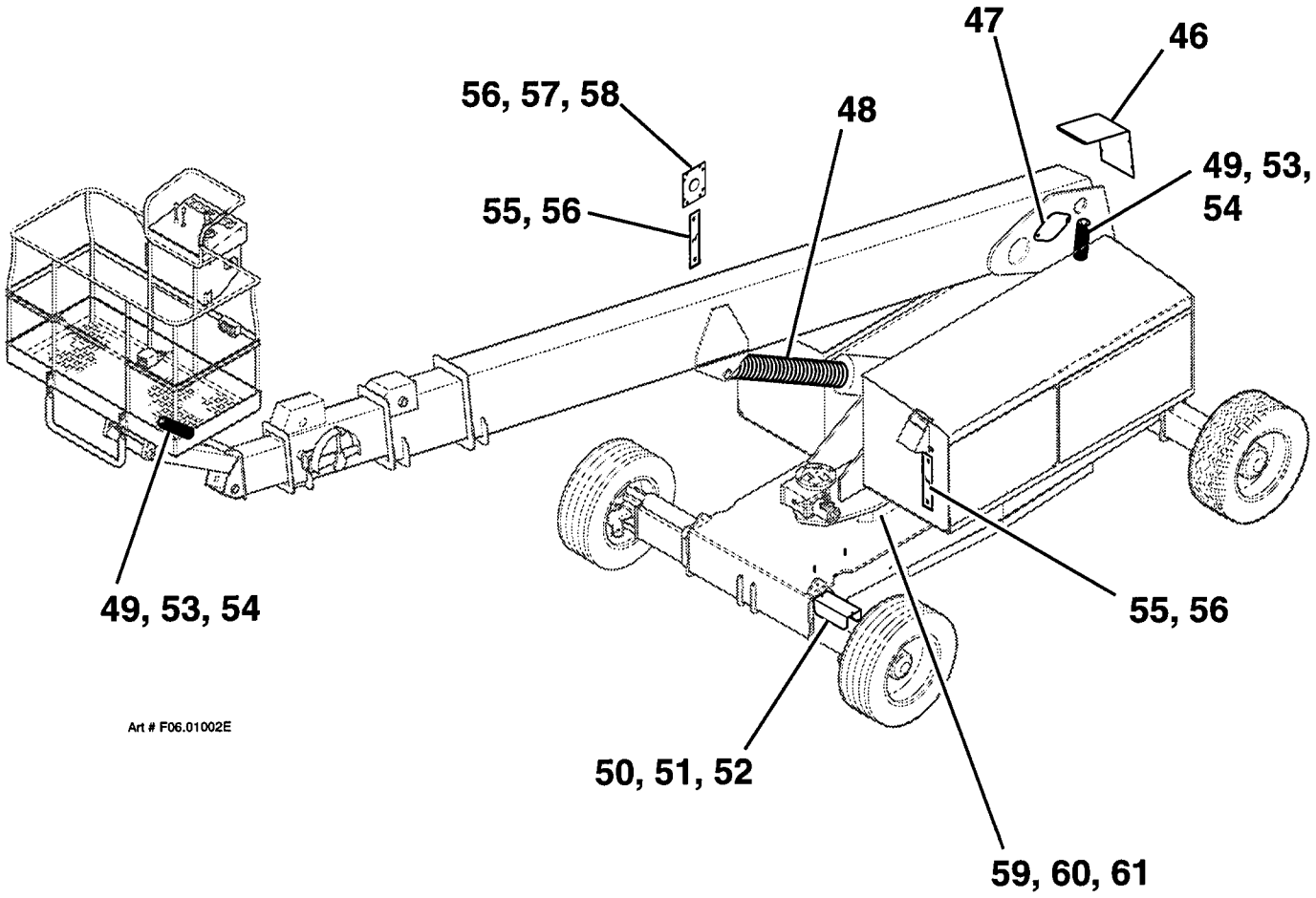
| SIMON AERIALS INC. NEW 10 OCT., 1994 | PART NO. | PLATE NO. F06.01 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | BRUSH PACKAGE, MP 110 (except Keel Boom) (continued) | |
| 46 | 2100210 | | COVER, BASE BOOM END | 1 |
| 47 | 2131990 | | COVER, TELESCOPE CYLINDER TRUNNION OPENING | 2 |
| 48 | | | BOOT, LIFT CYLINDER | |
| | 10-042600 | | 4" I.D., 8-1/2" O.D., 68" extended length | 1 |
| | 10-043100 | | 4-1/2"ID, 10-1/2"OD, 62" extended length | 1 |
| 49 | 10-040900 | | BOOT, PLATFORM LEVEL CYLINDER (1-1/2" I.D., 5-1/2" O.D., 20" extended length) | 2 |
| 50 | 10-042700 | | BOOT, STEER CYLINDER (3" I.D., 4-1/2" O.D., 10" extended length) | 1 |
| | | | The following items **are not** part of the Brush Package, but are sold separately: | |
| 51 | 2117190 | | COVER, AXLE EXTEND CYLINDER ROD | 2 |
| 52 | 07-090046 | | NUT, WING (1/4"-20) | 4 |
| 53 | 09-008400 | | CLAMP, HOSE (1-3/4") | 2 |
| 54 | 09-015000 | | CLAMP, HOSE (2-1/2") | 2 |
| 55 | 2170760 | | COVER, SIGHT GAUGE | 2 |
| 56 | 07-090012 | | CAP SCREW, HEX WASHER HEAD (#10 x 1/2", self tapping) | 20 |
| 57 | 2340160 | | SEAL, FUEL FILLER | 1 |
| 58 | 2340150 | | CLAMP, FUEL FILLER SEAL | 1 |
| 59 | 2088419 | | PAN, SWING BEARING OIL | 1 |
| 60 | 10-00550 | | SEAL, BEARING (Bulk item, order as needed. 17' [5.2 M] used in this application) | A.R. |
| 61 | 01-040400 | | "O"-RING | 18 |

**TITLE** HOSTILE ENVIRONMENT PACKAGE OPTION, MP 110 (PLATE 3 OF 3)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| F06.01 | **SIMON AERIALS INC.** | NEW 10 OCT., 1994 | |




TITLE HOSTILE ENVIRONMENT PACKAGE OPTION, MP 110 (PLATE 3 OF 3)

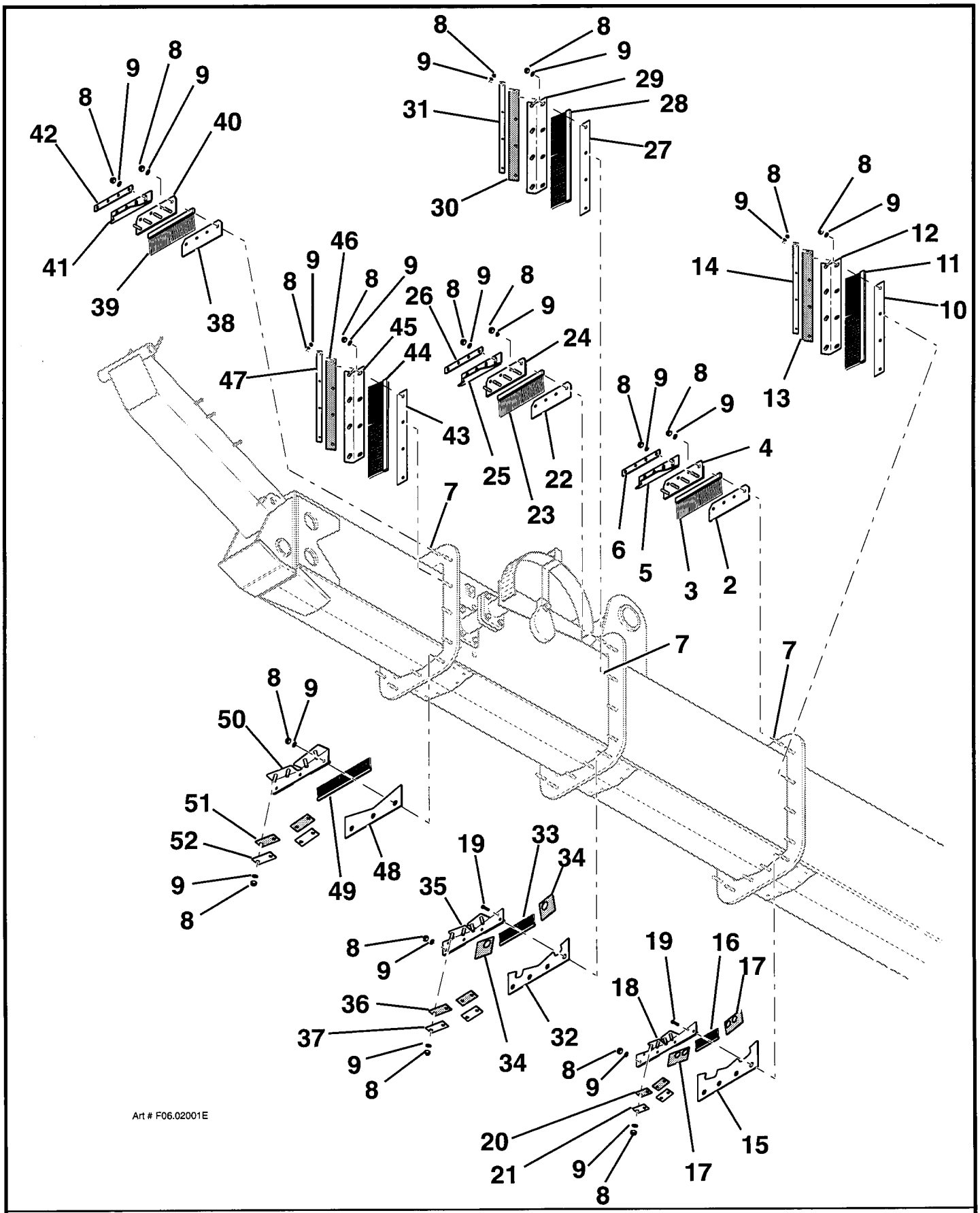
| SIMON AERIALS INC. NEW 10 OCT., 1994 | PART NO. | PLATE NO. F06.01 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 3538160 | | BRUSH PACKAGE, MP 110 KEEL BOOM | 1 |
| 2 | 2331460 | | BACKUP SHEET, INNER MID BOOM TOP | 1 |
| 3 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. | |
| | | | Cut to fit. 20" [508 mm] wide piece needed here.) | 1 |
| 4 | 2331590 | | BRACKET, INNER MID BOOM TOP | 1 |
| 5 | 2331490 | | SCRAPER, BOOM SEAL (Inner mid boom, top) | |
| | | | (Brass, 20-1/2" [521 mm] wide) | 1 |
| 6 | 2331620 | | CLAMP (Inner mid boom, top) | |
| | | | (Steel, 20-1/2" [521 mm] wide) | 1 |
| 7 | 07-031023 | | STUD, WELD (3/8"-16 x 1-1/2") | 49 |
| 8 | 07-050016 | | NUT, LOCK (3/8"-16) | 86 |
| 9 | 07-062016 | | WASHER, FLAT (3/8") | 86 |
| 10 | 2331470 | | BACKUP SHEET, INNER MID BOOM SIDE | 2 |
| 11 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. | |
| | | | Cut to fit. 22-1/2" [572 mm] wide piece needed here.) | 2 |
| 12 | 2331600 | | BRACKET, INNER MID BOOM SIDE | 2 |
| 13 | 2331830 | | WIPER, BOOM SEAL (Inner mid boom, side) | |
| | | | (Rubber, 22-1/2" [572 mm] wide) | 2 |
| 14 | 2331630 | | CLAMP, BRUSH (Inner mid boom, side) | |
| | | | (Steel, 22-1/2" [572 mm] wide) | 2 |
| 15 | 2331480 | | BACKUP SHEET, INNER MID BOOM BOTTOM | 1 |
| 16 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. | |
| | | | Cut to fit. 6-3/4" [171 mm] wide piece needed here.) | 1 |
| 17 | 2331980 | | WIPER, BOOM SEAL (Inner mid boom, bottom) | |
| | | | (Rubber, 2-7/8" x 5" [73 mm x 127 mm]) | 2 |
| 18 | 2331960 | | BRACKET, INNER MID BOOM BOTTOM | 1 |
| 19 | 07-003004 | | CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5) | 4 |
| 20 | 2329720 | | WIPER, BOOM SEAL (Inner mid boom, bottom) | |
| | | | (Rubber, 2-1/2" x 3" [64 mm x 76 mm] wide) | 2 |
| 21 | 2329780 | | CLAMP (Outer mid boom, bottom) | |
| | | | (Steel, 3" [76 mm] wide) | 2 |
| 22 | 2331500 | | BACKUP SHEET, OUTER MID BOOM TOP | 1 |
| 23 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. | |
| | | | Cut to fit. 18" [457 mm] wide piece needed here.) | 1 |
| 24 | 2331640 | | BRACKET, OUTER MID BOOM TOP | 1 |
| 25 | 2331530 | | SCRAPER, BOOM SEAL (Outer mid boom, top) | |
| | | | (Brass, 18-1/2" [470 mm] wide) | 1 |
| 26 | 2331670 | | CLAMP (Outer mid boom, top) | |
| | | | (Steel, 18-1/2" [470 mm] wide) | 1 |
| | | | (Brush Package continues on next page) | |

TITLE HOSTILE ENVIRONMENT PACKAGE, MP 110 KEEL BOOM (PLATE 1 OF 3)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| F06.02 | **SIMON AERIALS INC.** | NEW 10 OCT., 1994 | |




TITLE HOSTILE ENVIRONMENT PACKAGE, MP 110 KEEL BOOM (PLATE 1 OF 3)

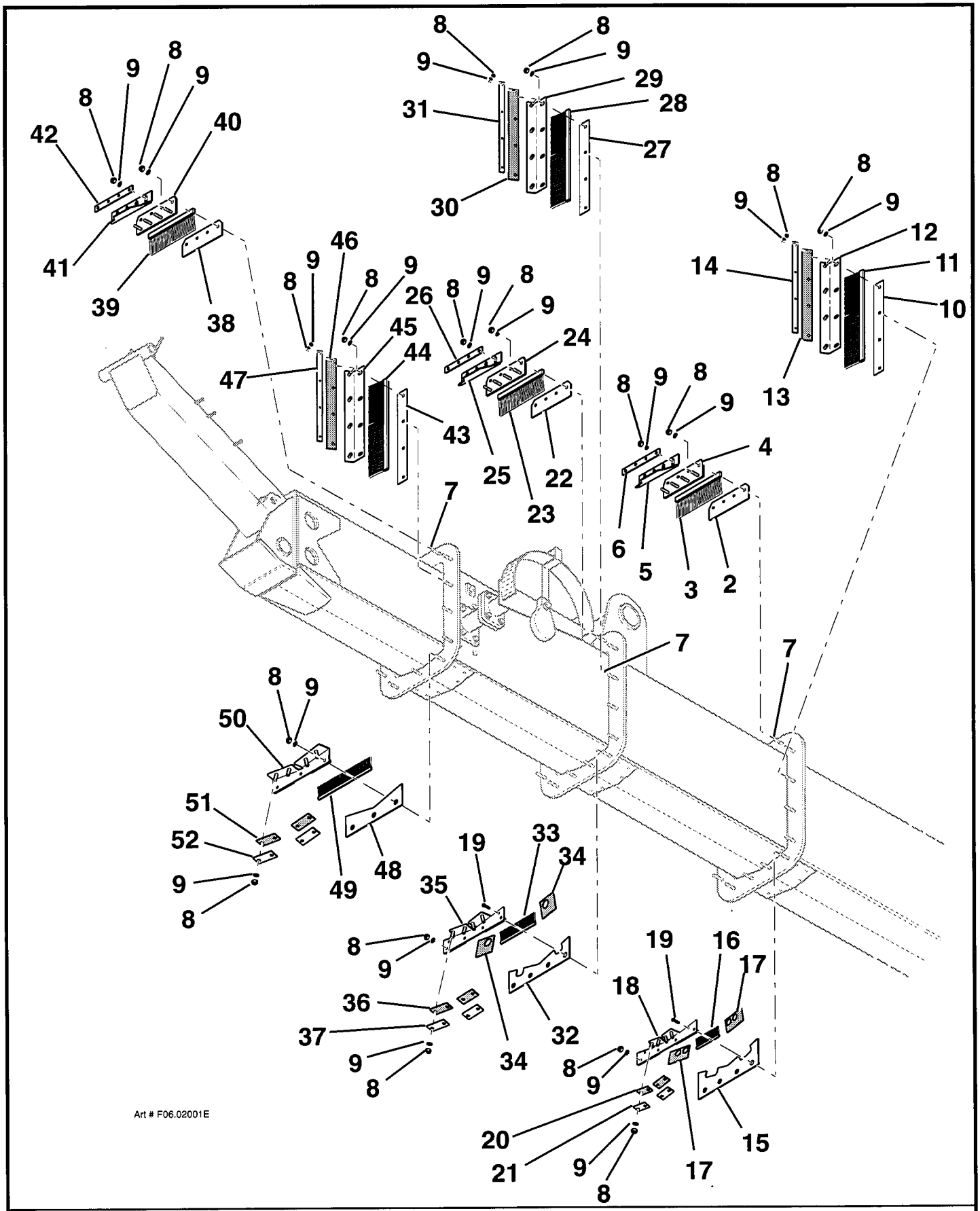
| SIMON AERIALS INC. NEW 10 OCT., 1994 | PART NO. | PLATE NO. F06.02 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | BRUSH PACKAGE, MP 110 KEEL BOOM (continued) | |
| 27 | 2331510 | | BACKUP SHEET, OUTER MID BOOM SIDE | 2 |
| 28 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. | |
| | | | Cut to fit. 19-1/2" [495 mm] wide piece needed here.) | 2 |
| 29 | 2331650 | | BRACKET, OUTER MID BOOM SIDE | 2 |
| 30 | 2331840 | | WIPER, BOOM SEAL (Outer mid boom, side) | |
| | | | (Rubber, 19-1/2" [495 mm] wide) | 2 |
| 31 | 2331680 | | CLAMP, BRUSH (Outer mid boom, side) | |
| | | | (Steel, 19-1/2" [495 mm] wide) | 2 |
| 32 | 2331520 | | BACKUP SHEET, OUTER MID BOOM BOTTOM | 1 |
| 33 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. | |
| | | | Cut to fit. 9" [229 mm] wide piece needed here.) | 1 |
| 34 | 2331950 | | WIPER, BOOM SEAL (Outer mid boom, bottom) | |
| | | | (Rubber, 2-7/8" [73 mm] square) | 2 |
| 35 | 2331930 | | BRACKET, OUTER MID BOOM BOTTOM | 1 |
| 36 | 2329710 | | WIPER, BOOM SEAL (Outer mid boom, bottom) | |
| | | | (Rubber, 4" [102 mm] wide) | 2 |
| 37 | 2329770 | | CLAMP (Outer mid boom, bottom) | |
| | | | (Steel, 4" [102 mm] wide) | 2 |
| 38 | 2331540 | | BACKUP SHEET, TIP BOOM TOP | 1 |
| 39 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. | |
| | | | Cut to fit. 15-3/4" [400 mm] wide piece needed here.) | 1 |
| 40 | 2331690 | | BRACKET, TIP BOOM TOP | 1 |
| 41 | 2331570 | | SCRAPER, BOOM SEAL (Tip boom, top) | |
| | | | (Brass, 16-1/4" [413 mm] wide) | 1 |
| 42 | 2331720 | | CLAMP (Tip boom, top) (Steel, 16-1/4" [413 mm] wide) | 1 |
| 43 | 2331550 | | BACKUP SHEET, TIP BOOM SIDE | 2 |
| 44 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. | |
| | | | Cut to fit. 16-1/2" [419 mm] wide piece needed here.) | 2 |
| 45 | 2331700 | | BRACKET, TIP BOOM SIDE | 2 |
| 46 | 2331850 | | WIPER, BOOM SEAL (Tip boom, side) | |
| | | | (Rubber, 16-1/2" [419 mm] wide) | 2 |
| 47 | 2331730 | | CLAMP, BRUSH (Tip boom, side) | |
| | | | (Steel, 16-1/2" [419 mm] wide) | 2 |
| 48 | 2331560 | | BACKUP SHEET, TIP BOOM BOTTOM | 1 |
| 49 | 10-041100 | | BRUSH ASSEMBLY, BOOM (36" [.914 M] long section. | |
| | | | Cut to fit. 13" [330 mm] wide piece needed here.) | 1 |
| 50 | 2331900 | | BRACKET, TIP BOOM BOTTOM | 1 |
| 51 | 2317800 | | WIPER, BOOM SEAL (Tip boom, bottom) | |
| | | | (Rubber, 6" [152 mm] wide) | 2 |
| 52 | 2331920 | | CLAMP (Tip boom, bottom) (Steel, 6" [152 mm] wide) | 2 |

TITLE HOSTILE ENVIRONMENT PACKAGE, MP 110 KEEL BOOM (PLATE 2 OF 3)

| PLATE NO. | | | PART NO. |
|---|---|---|---|
| F06.02 | **SIMON AERIALS INC.** | NEW 10 OCT., 1994 | |




TITLE HOSTILE ENVIRONMENT PACKAGE, MP 110 KEEL BOOM (PLATE 2 OF 3)

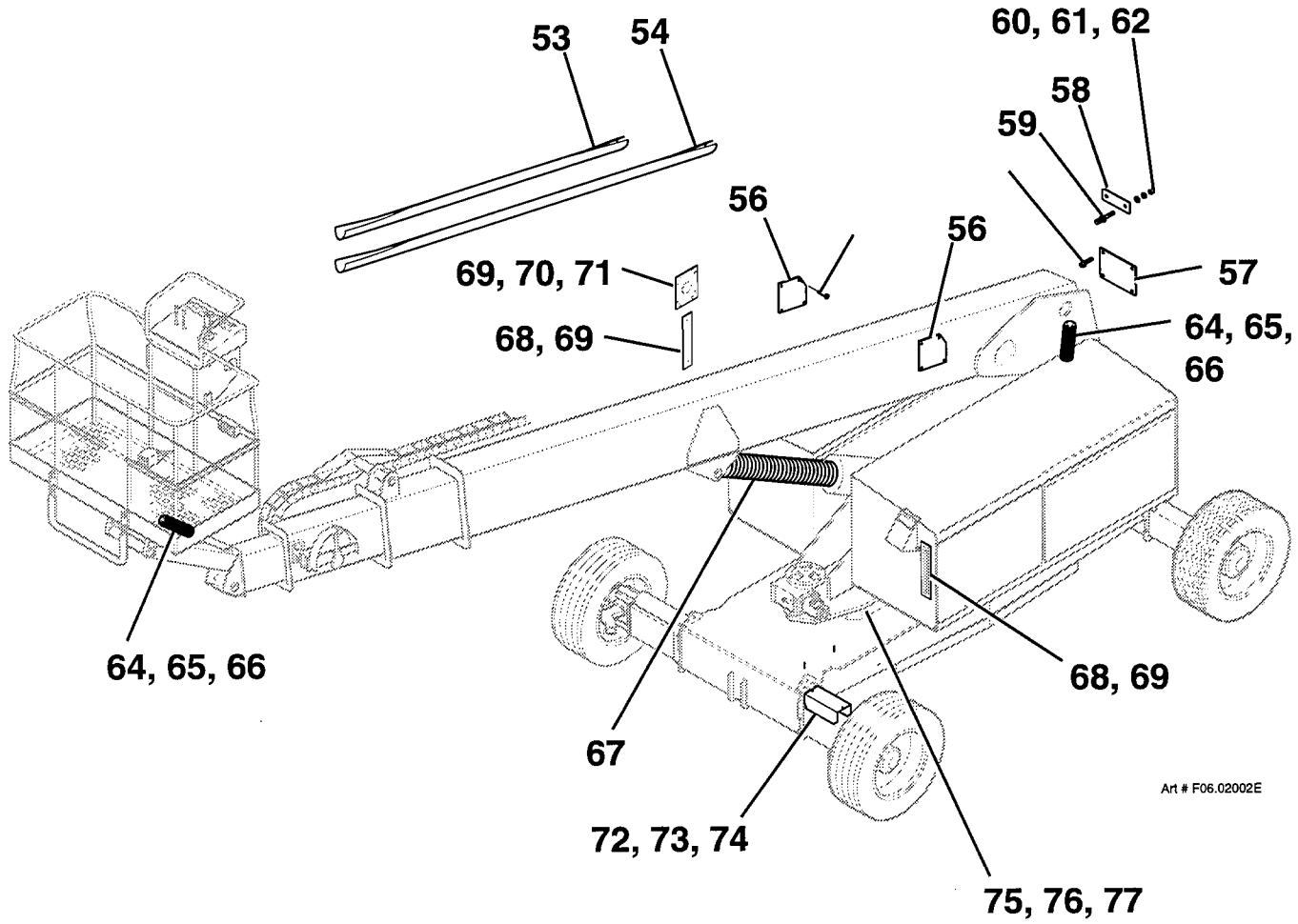
| SIMON AERIALS INC. NEW 10 OCT., 1994 | PART NO. | PLATE NO. F06.02 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 53 | 10-229900 | | COVER, CATRAC HOSE (zippered fiberglass cloth, 18 Ft [5.5 M] long, for inner mid boom) | 1 |
| 54 | 10-240100 | | COVER, CATRAC HOSE (zippered fiberglass cloth, approx. 28 Ft [8.5 M] long, for outer mid and tip booms) | 1 |
| 55 | 2332480 | | COVER KIT, BASE BOOM | 1 |
| 56 | 2332490 | | COVER, BASE BOOM SIDE | 2 |
| 57 | 2332500 | | COVER, BASE BOOM FOOT (lower) | 1 |
| 58 | 2332510 | | COVER, BASE BOOM FOOT (upper) | 1 |
| 59 | 07-031001 | | STUD, WELD (1/4"-20 x 3/4") | 14 |
| 60 | 07-044014 | | NUT, ACORN (1/4"-20, stainless steel, low crown) | 14 |
| 61 | 07-040014 | | NUT, HEX (1/4"-20, Grade 5) | 14 |
| 62 | 07-062014 | | WASHER, FLAT (1/4") | 14 |
| 63 | 3538150 | | BOOT KIT, MASTER AND SLAVE CYLINDER | 1 |
| 64 | 10-103000 | | BOOT, CYLINDER (for platform leveling master or slave cylinder) | 2 |
| 65 | 09-008400 | | CLAMP, HOSE (1-3/4") | 2 |
| 66 | 09-008500 | | CLAMP, HOSE (3-1/2") | 2 |
| 67 | 10-043100 | | BOOT, LIFT CYLINDER (4-1/2" I.D., 10-1/2" O.D., 62" extended length) | 1 |
| 68 | 2170760 | | COVER, SIGHT GAUGE | 2 |
| 69 | 07-090012 | | CAP SCREW, HEX WASHER HEAD (#10 x 1/2", self tapping) | 20 |
| 70 | 2340160 | | SEAL, FUEL FILLER | 1 |
| 71 | 2340150 | | CLAMP, FUEL FILLER SEAL | 1 |
| 72 | 2117190 | | COVER, AXLE EXTEND CYLINDER ROD | 2 |
| 73 | 07-090046 | | NUT, WING (1/4"-20) | 4 |
| 74 | 10-042700 | | BOOT, STEER CYLINDER (3" I.D., 4-1/2" O.D., 10" extended length) | 1 |
| 75 | 2088419 | | PAN, SWING BEARING OIL | 1 |
| 76 | 10-00550 | | SEAL, BEARING (Bulk item, order as needed. 17' [5.2 M] used in this application) | A.R. |
| 77 | 01-040400 | | "O"-RING | 18 |

TITLE HOSTILE ENVIRONMENT PACKAGE, MP 110 KEEL BOOM (PLATE 3 OF 3)

| PLATE NO. | | PART NO. |
|---|---|---|
| F06.02 | **SIMON AERIALS INC.** NEW 10 OCT., 1994 | |



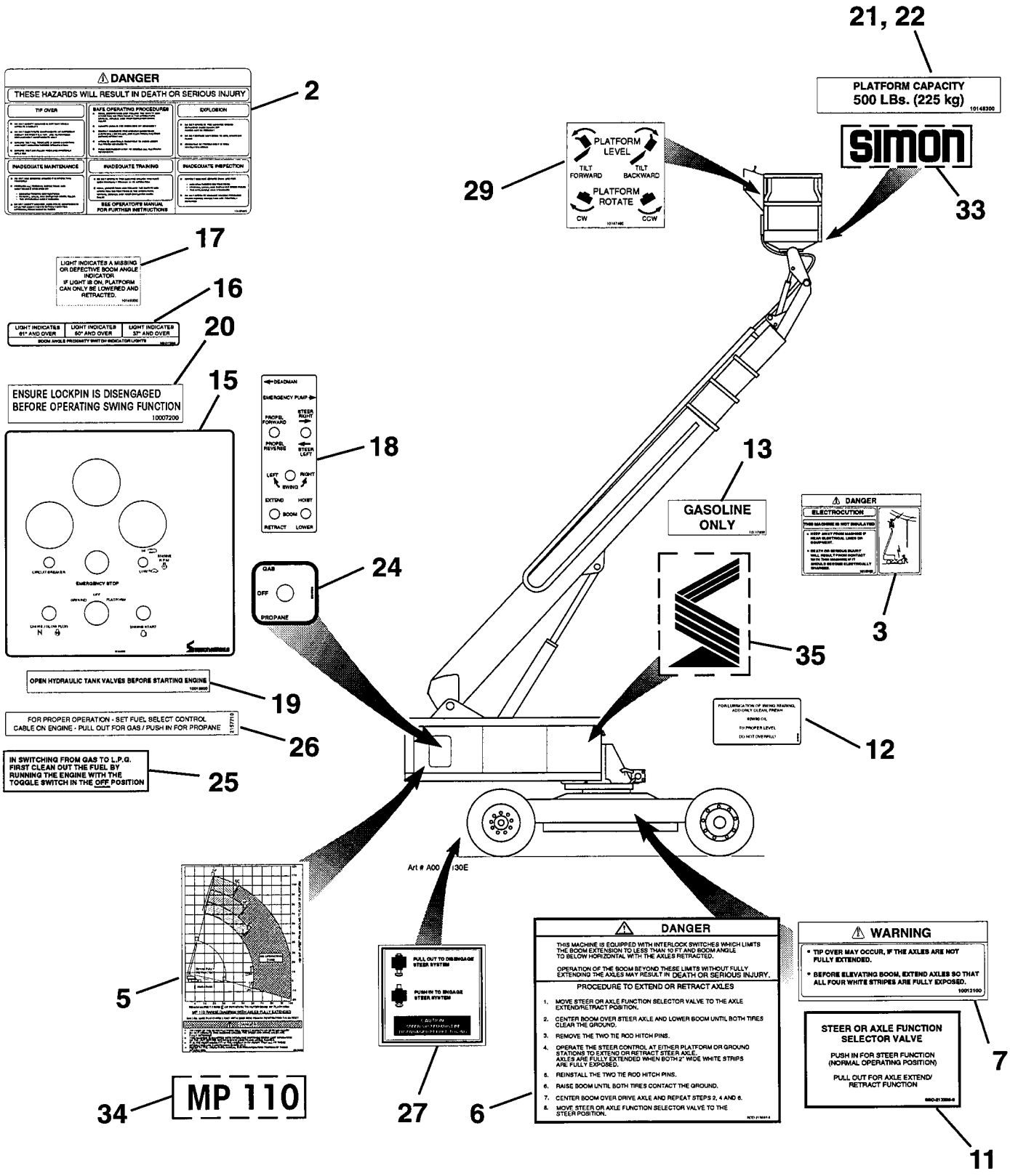

TITLE HOSTILE ENVIRONMENT PACKAGE, MP 110 KEEL BOOM (PLATE 3 OF 3)

| SIMON AERIALS INC. NEW 10 OCT., 1994 | PART NO. | PLATE NO. F06.02 |
|---|---|---|

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | | | DECAL KIT, MP 110<br>(Not available. Purchase decals individually) | |
| 2 | 10-130600 | | DECAL, "DANGER" (Hazard listing, at Ground controls) | 1 |
| 3 | 10-145100 | | DECAL, "DANGER" (Electrocution) | 2 |
| 4 | 10-142100 | | DECAL, "DANGER" (Hazard listing, at Platform controls) | 1 |
| 5 | 10-161600 | | DECAL, "DANGER" (MP 110 Range diagram, 500# platform) | 2 |
| 6 | 213 2070 | | DECAL, "DANGER" (Axle extend instructions) | 1 |
| 7 | 10-013100 | | DECAL, "WARNING" (current version will be supplied) | |
| | | | ("Tipover may occur . . . ") (Current version) | 2 |
| | | | ("To assure full axle extension . . . ") (Obsolete) | 2 |
| 8 | 10-094700 | | DECAL, "CAUTION, HOT WATER . . ." | |
| | | | (for versions with liquid cooled engine) | 1 |
| 9 | 10-094900 | | DECAL, "CAUTION, ROTATING FAN . . ." | |
| | | | (for versions with liquid cooled engine) | 1 |
| 10 | 10-025400 | | DECAL, ENGINE MAINTENANCE (decal is marked "F3-6L912" and "2973582") (used with Deutz 912 engine) | 1 |
| 11 | 213 2080 | | DECAL, "STEER OR AXLE FUNCTION . . ." | 1 |
| 12 | 10-135100 | | DECAL, "FOR LUBRICATION OF SWING BEARING . . ." | |
| | | | (with optional oil bath swing bearing) | 1 |
| 13 | | | PLACARD, FUEL | 1 |
| | 10-117900 | | "GASOLINE ONLY" (Black type on white) | |
| | 10-151100 | | "DIESEL FUEL ONLY" (Black type on white) | |
| 14 | 10-151300 | | PLACARD, "HYDRAULIC FLUID ONLY" | 1 |
| 15 | 10-144300 | | DECAL, GROUND ELECTRICAL CONTROLS | 1 |
| 16 | 217 3550 | | DECAL, BOOM ANGLE LIGHT | |
| | | | ("Light indicates 61° and over . . .") | 1 |
| 17 | 10-145200 | | DECAL, BOOM ANGLE INDICATOR | |
| | | | ("Light indicates a missing or defective . . .") | 1 |
| 18 | 10-016400 | | PLACARD, REMOTE CONTROL PENDANT | |
| | | | (modify to remove "High/ Low speed" switch hole at top) | 1 |
| 19 | 10-012600 | | DECAL, "OPEN HYDRAULIC TANK VALVES . . ." | 1 |
| 20 | 10-007200 | | DECAL, "ENSURE LOCK PIN IS DISENGAGED . . ." | 2 |
| 21 | 10-148300 | | DECAL, "Platform capacity 500 Lbs (225 Kg)" | |
| | | | (4-1/2" [114 mm] wide, black letters on white background) | |
| | | | (2 used on earlier versions, 4 on later versions ) | A.R. |
| 22 | 10-145300 | | DECAL, "Platform capacity 500 Lbs (225 Kg)" | |
| | | | (18-1/4" [464 mm] wide, black cutout letters) | |
| | | | (Was used on some earlier versions) | 1 |

| | | | |
|---|---|---|---|
| TITLE | DECALS, MP 110 (PLATE 1 OF 2) | | |
| PLATE NO. F99.08 | **SIMON AERIALS INC.** | REV. 17 FEB., 1995 | PART NO. |



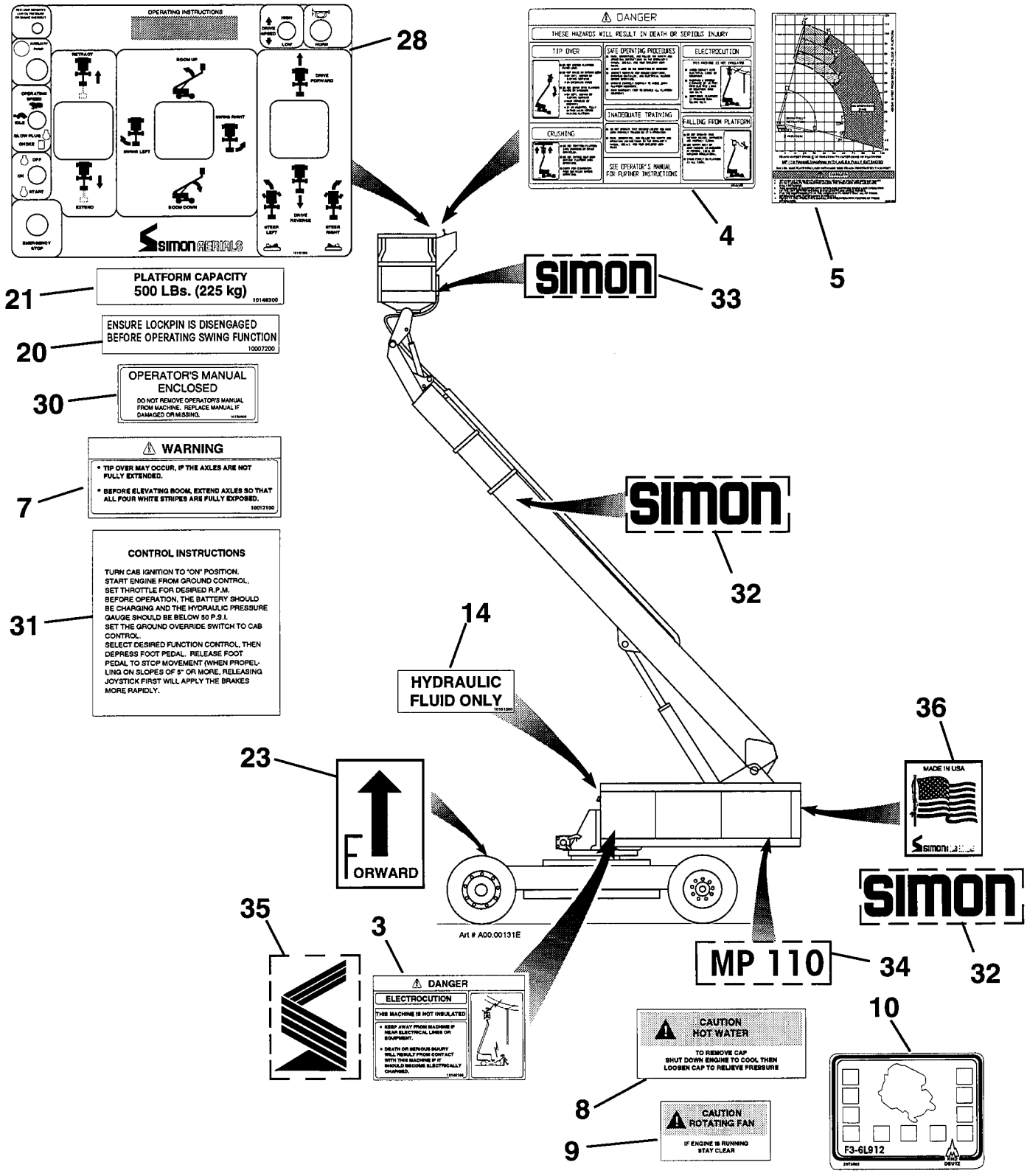

**Left (Control) side. See following page for illustration of Right side decals.**

| TITLE | DECALS, MP 110 (PLATE 1 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 17 FEB., 1995 | PART NO. | PLATE NO. F99.08 |

# PARTS LIST

| ITEM | PART NO | SEE SECTION | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 23 | 10-012900 | | DECAL, "FORWARD" WITH ARROW | 2 |
| 24 | 10-016800 | | DECAL, "GAS/ OFF/ PROPANE" | |
| | | | (for some "Dual fuel" versions) | 1 |
| 25 | 10-025000 | | DECAL, "IN SWITCHING FROM GAS TO PROPANE . . ." | |
| | | | (for some "Dual fuel" versions) | 1 |
| 26 | 2157710 | | DECAL, "FOR PROPER OPERATION - SET FUEL . . ." | |
| | | | (for some "Dual fuel" versions) | 1 |
| 27 | 10-107200 | | DECAL, "CAUTION" ("Steer system must be disengaged ...") | |
| | | | (for versions with optional tow package) | 1 |
| 28 | | | PLACARD, PLATFORM CONTROLS | 1 |
| | | | With **"Electro-Proportional"** controls: | |
| | | | Standard version. Electrical controls down left side. | |
| | | | Left hand "**Telescope**" lever. Right hand "**Drive/ Steer**": | |
| | 10-157200 | shown | Standard ("Oil pressure/ Overheat" indicator at top left) | |
| | 10-161800 | | Fiber optic controls ("Low voltage" indicator at top left) | |
| | 10-151500 | | Insulated ("Low voltage" indicator at top left, | |
| | | | "Emergency stop" to right of "Off/ On/ Start" switch) | |
| | 10-225400 | | Special version. Electrical controls across top and bottom | |
| | | | Left hand "**Telescope/ Steer**" lever. Right hand "**Drive**". | |
| | | | With **"Hydraport"** controls: | |
| | 10-065400 | | **Black lettering** on White. Two control levers. | |
| | 10-225000 | | **White lettering** on Black. Three control levers. | |
| 29 | | | PLACARD, PLATFORM LEVEL AND ROTATE CONTROLS | 1 |
| | 10-147400 | shown | Standard (Lexan) | |
| | 10-241200 | | Optional (Stencil-cut aluminum) | |
| | 10-241400 | | SPACER (needed with aluminum control placard) | 4 |
| 30 | 10-139800 | | DECAL, "OPERATOR'S MANUAL ENCLOSED" | 1 |
| 31 | 10-012000 | | DECAL, "CONTROL INSTRUCTIONS . . ." | |
| | | | (With **"Hydraport"** controls) | 1 |
| 32 | 10-017100 | | DECAL, "SIMON" NAME (Black, 7" [178 mm] high) | 2 |
| 33 | 10-105900 | | DECAL, "SIMON" NAME (White, 5" [127 mm] high) | 1 |
| 34 | 10-132400 | | DECAL, MODEL "MP 110" | 2 |
| 35 | 10-131900 | | DECAL, SIMON "S" LOGO | |
| | | | (Orange/ Gray, 9" [229 mm] wide x 13-1/2" [344 mm]) | 2 |
| 36 | 10-121600 | | DECAL, "MADE IN U.S.A." | 1 |
| 37 | 10-126800 | | DECAL, STRIPE ([4] Orange stripes, 3-3/4" [95 mm] wide) | |
| | | | (Bulk item, order as needed) (28 Ft [8.5 M] used here) | A.R. |
| 38 | 10-126900 | | DECAL, STRIPE ([3] Dk Gray stripes, 2-1/8" [54 mm] wide) | |
| | | | (Bulk item, order as needed) (14 Ft [4.3 M] used here) | A.R. |
| 39 | 10-031000 | | "SAF STEP" (Black) | |
| | | | (4" [102 mm] wide x 60 Ft [18.3 M] long roll) | A.R. |

| TITLE | DECALS, MP 110 (PLATE 2 OF 2) | |
|---|---|---|
| PLATE NO. F99.08 | **SIMON AERIALS INC.** REV. 17 FEB., 1995 | PART NO. |




**Right (Engine) side. See previous page for illustration of Left side decals.**

| TITLE | DECALS, MP 110 (PLATE 2 OF 2) | | |
|---|---|---|---|
| **SIMON AERIALS INC.** | REV. 17 FEB., 1995 | PART NO. | PLATE NO. F99.08 |