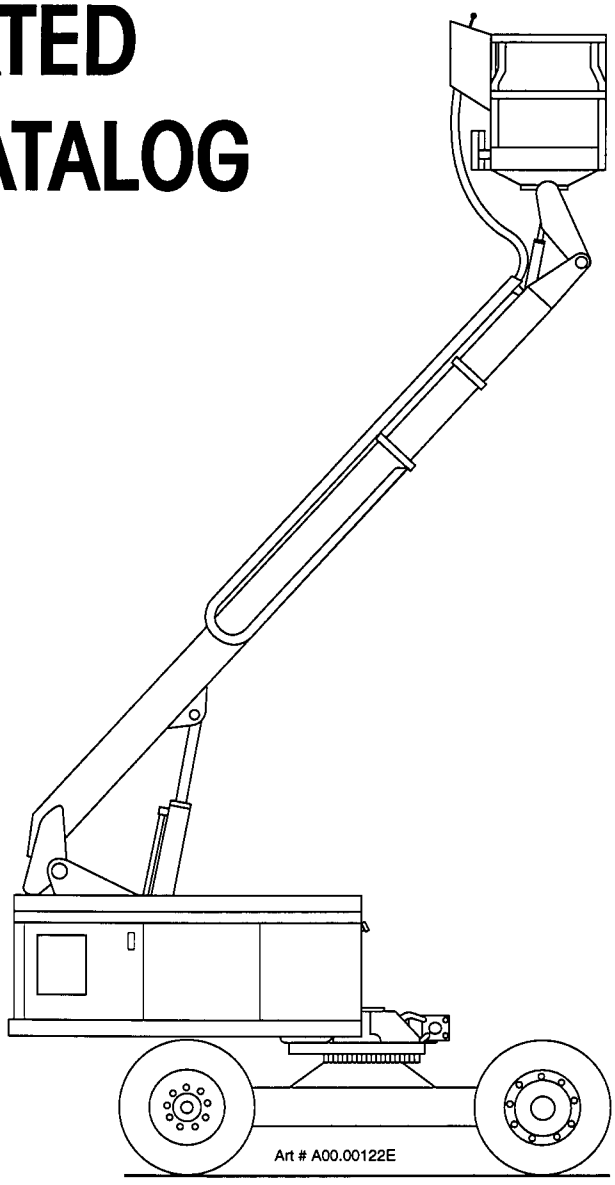
TEREX AERIALS
Milwaukee, Wisconsin

MODEL MPH 60

ILLUSTRATED PARTS CATALOG

FOR MACHINE
SERIAL NUMBER

_____



Part No. 89-162005

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.

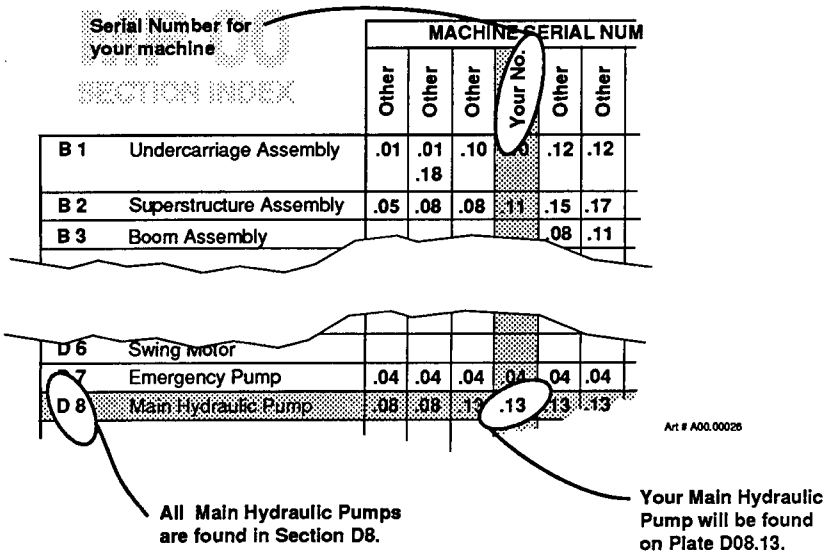
The Parts Catalog is divided into "Sections", numbered from B 1 through F 99. Each section contains the individual parts that make up a major component, assembly or item.

- 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).

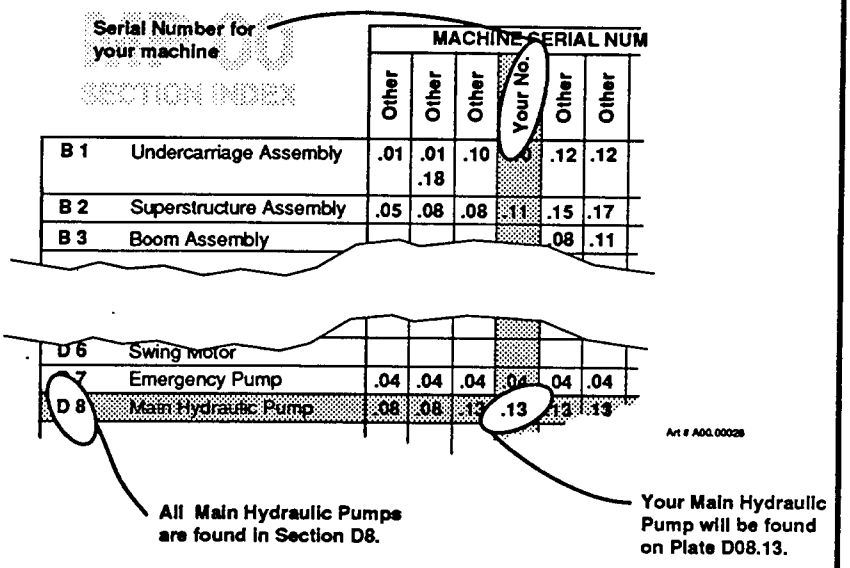


When ordering parts, always give:

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.

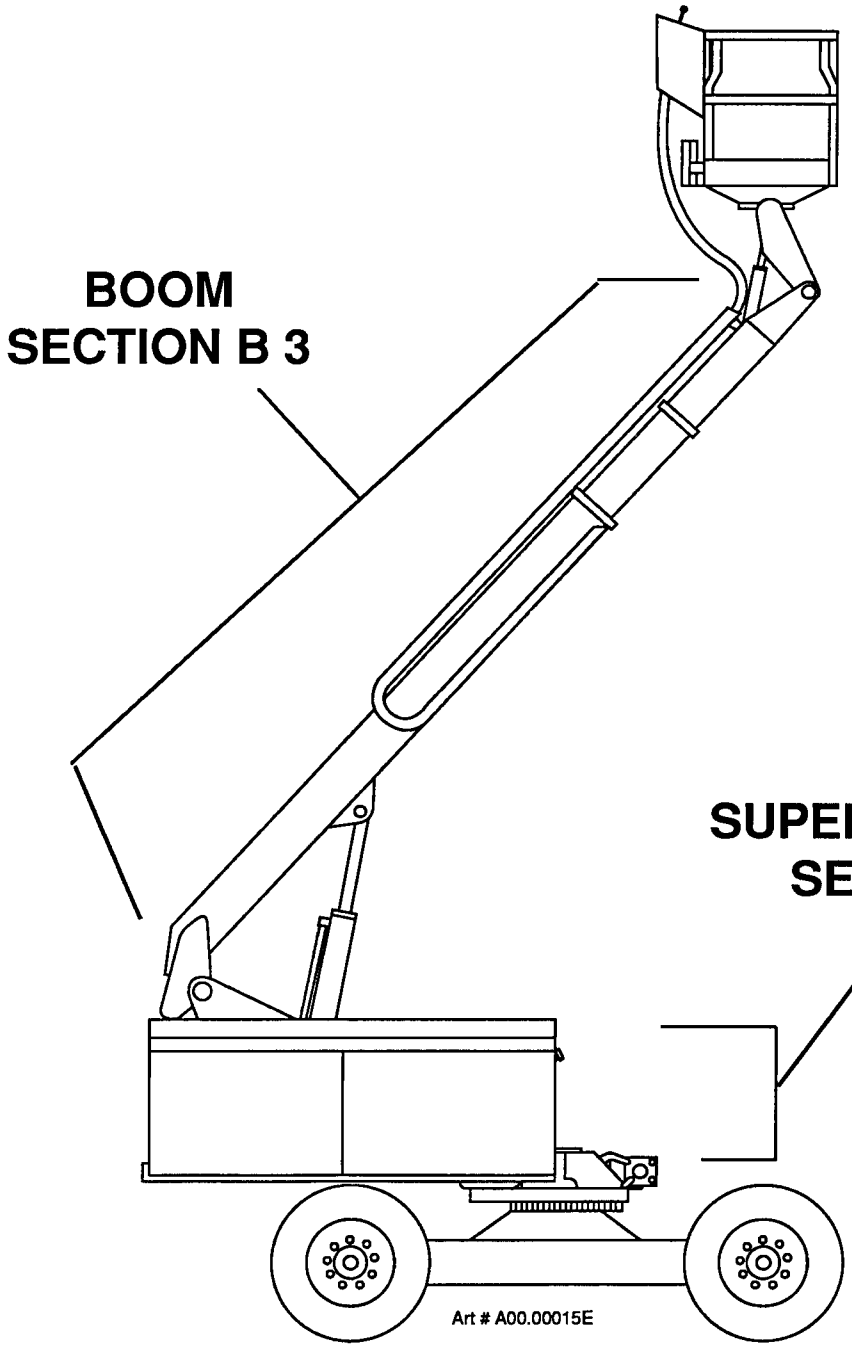
If a part number is not listed for a selected item, please provide this additional information:

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.

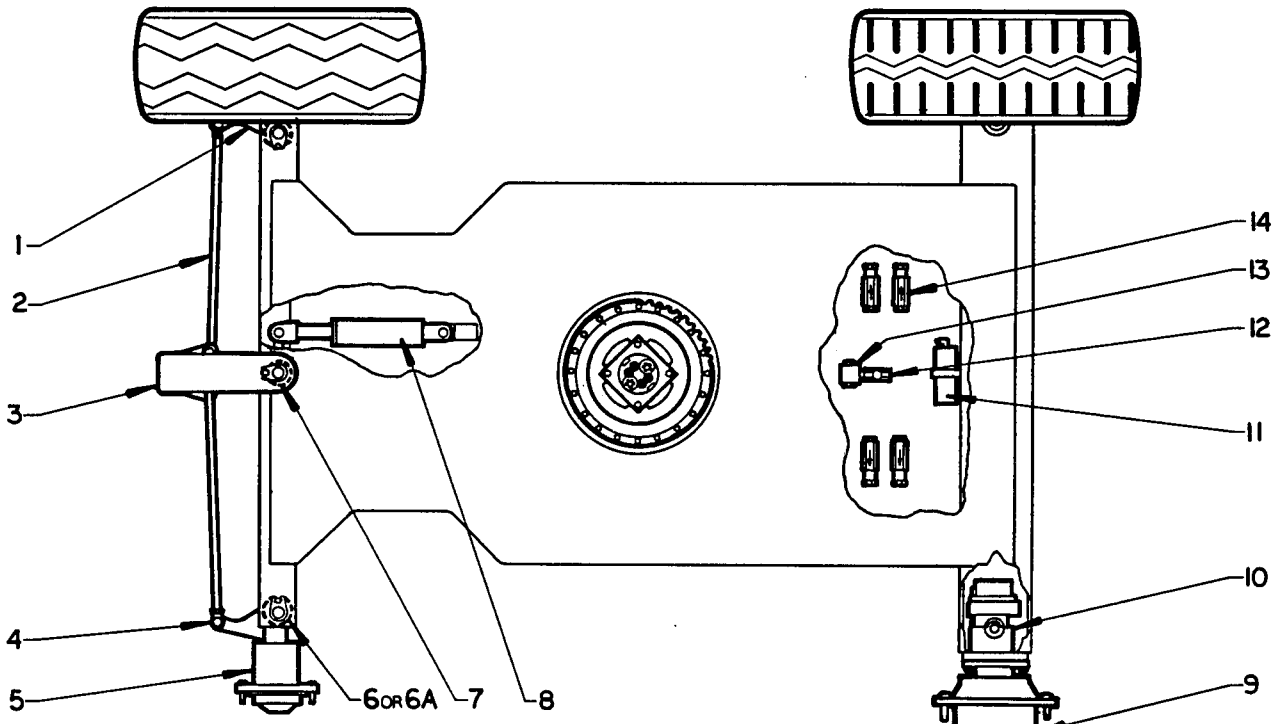


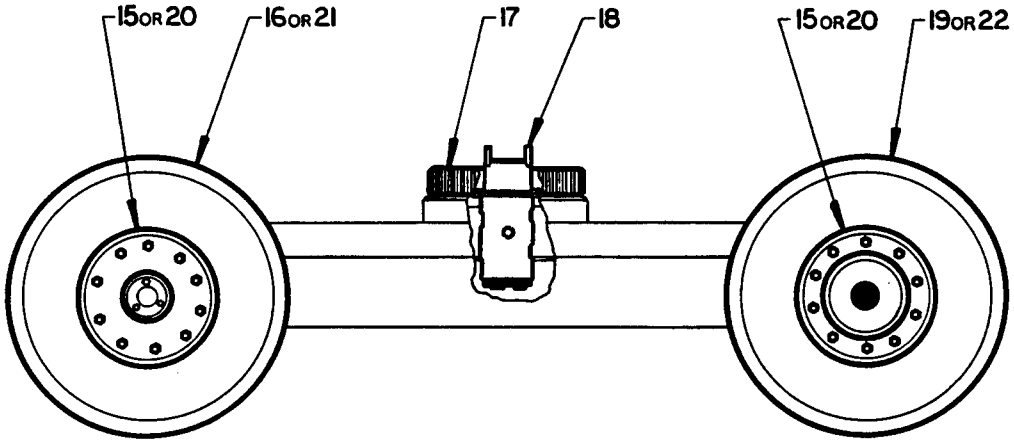
TITLE	PRIMARY MACHINE COMPONENT GROUPS	
SIMON AERIALS INC.	PART NO.	PLATE NO.

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEA-206184-7	C1.5	R.H. SPINDLE ASSEMBLY	1
2	SCA-205108-6		TIE ROD	2
3	SDW-202429-5		CENTER STEER ARM	1
4	08-007100		TIE ROD END	4
5	SEA-206183-4	C1.6	L.H. SPINDLE ASSEMBLY	1
6	08-004200		THRUST WASHER (TO 09/84)	2
6A	08-014100		THRUST WASHER (09/84)	2
7	08-002000		FLANGE BUSHING	2
8	SEE INDEX	D1	STEER CYLINDER	1
9	SEE INDEX	F1	TORQUE HUB	2
10	SEE INDEX	D3	DRIVE MOTOR/BRAKE	2
11	01-001500	D4.1	ACCUMULATOR	1
12	01-000500		NEEDLE VALVE	1
13	01-001400		SHUTTLE VALVE	1
14	01-036100		FLOW CONTROL VALVE, 17 GPM	4
15	SDW-202256-7		RIM WELDMENT-17.5" (TO 02/85)	4
16	02-001500		STEER TIRE-14 X 17.5 (TO 02/85)	2
17	08-009900		SWING BEARING	1
18	SEE INDEX	D2	HYDRAULIC SWIVEL	1
19	02-001400		DRIVE TIRE-14 X 17.5 (TO 02/85)	2
20	02-008400		RIM WELDMENT-19.5" (02/85)	4
21	02-001200		STEER TIRE - 15 X 19.5 (20/85)	2
22	02-008300		DRIVE TIRE - 15 X 19.5 (02/85)	2

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207259-7





NOTE: SEE PAGE B1.11 FOR 4WD COMPONENTS

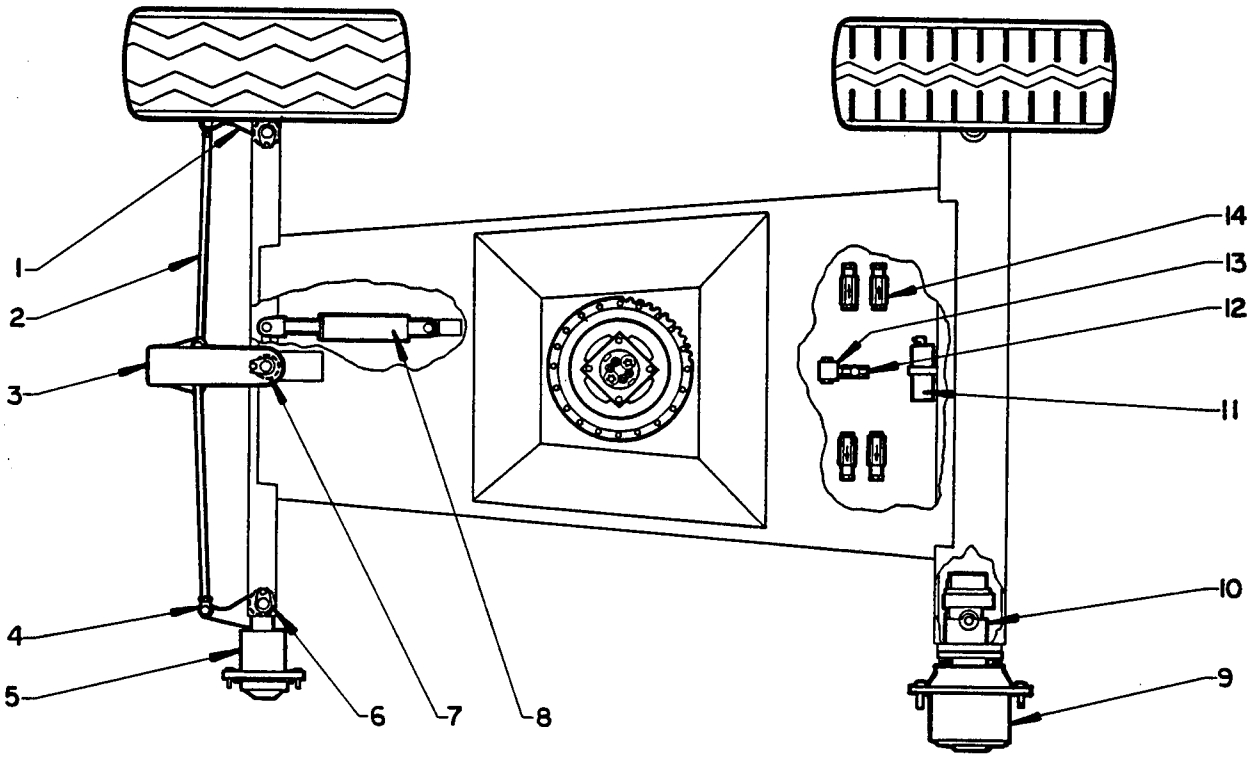
0285

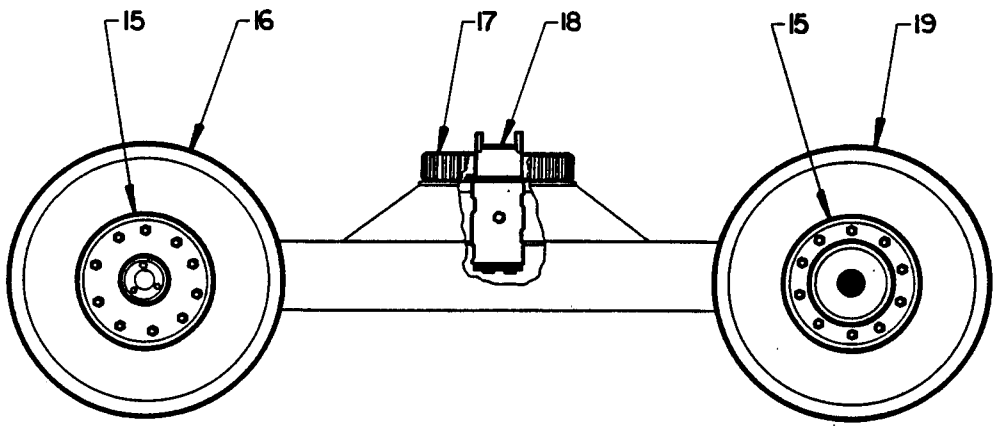
DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207259-7

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEA-206184-7	C1.5	R.H. SPINDLE ASSEMBLY	1
2	SCA-205108-6		TIE ROD	2
3	SDW-202429-5		CENTER STEER ARM	1
4	08-007100		TIE ROD END	4
5	SEA-206183-4	C1.6	L.H. SPINDLE ASSEMBLY	1
6	08-014100		THRUST WASHER	2
7	08-002000		FLANGE BUSHING	2
8	SEE INDEX	D1	STEER CYLINDER	1
9	SEE INDEX	F1	TORQUE HUB	2
10	SEE INDEX	D3	DRIVE MOTOR/BRAKE	2
11	01-001500	D4.1	ACCUMULATOR	1
12	01-000500		NEEDLE VALVE	1
13	01-001400		SHUTTLE VALVE	1
14	01-036100		FLOW CONTROL VALVE, 17 GPM	4
15	02-008400		RIM WELDMENT	4
16	02-001200		STEER TIRE	2
17	08-009900		SWING BEARING	1
18	SEE INDEX	D2	HYDRAULIC SWIVEL	1
19	02-008300		DRIVE TIRE	2

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207260-5





NOTE: SEE PAGE B1.11 FOR 4WD COMPONENTS

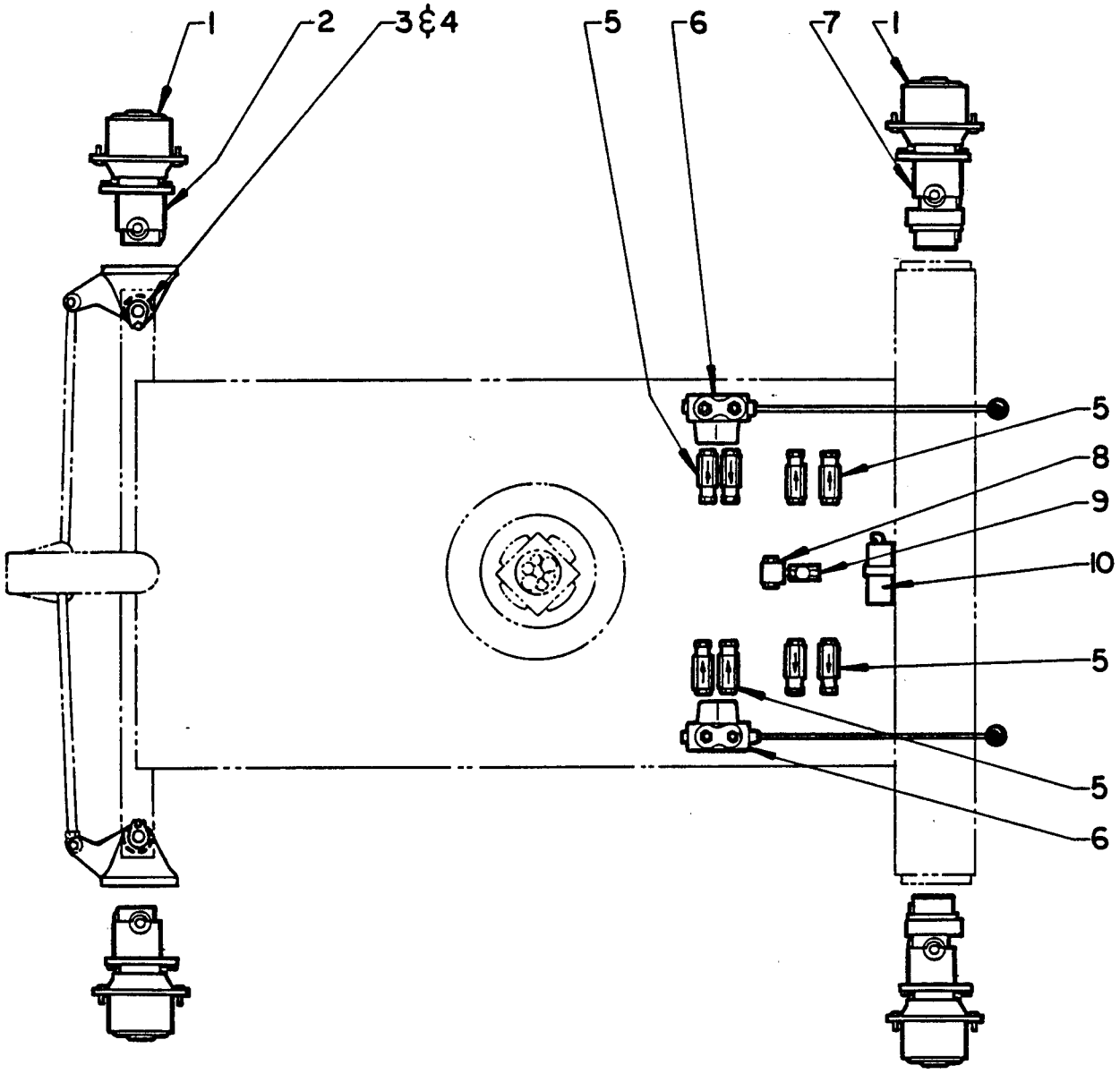
0285

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207260-5

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	F1	TORQUE HUB	4
2	SEE INDEX	D3	DRIVE MOTOR	2
3	08-004200		THRUST WASHER	2
4	SAD-201073-5		SLEEVE BEARING	4
5	01-006700		FLOW CONTROL VALVE, 6 GPM	8
6	01-004500		SELECTOR VALVE	2
7	SEE INDEX	D3	DRIVE MOTOR/BRAKE	2
8	01-001400		SHUTTLE VALVE	1
9	01-000500		NEEDLE VALVE	1
10	01-001500	D4.1	ACCUMULATOR	1

DESCRIPTION	PART NO.
4WD ASSEMBLY	CAA-208472-7



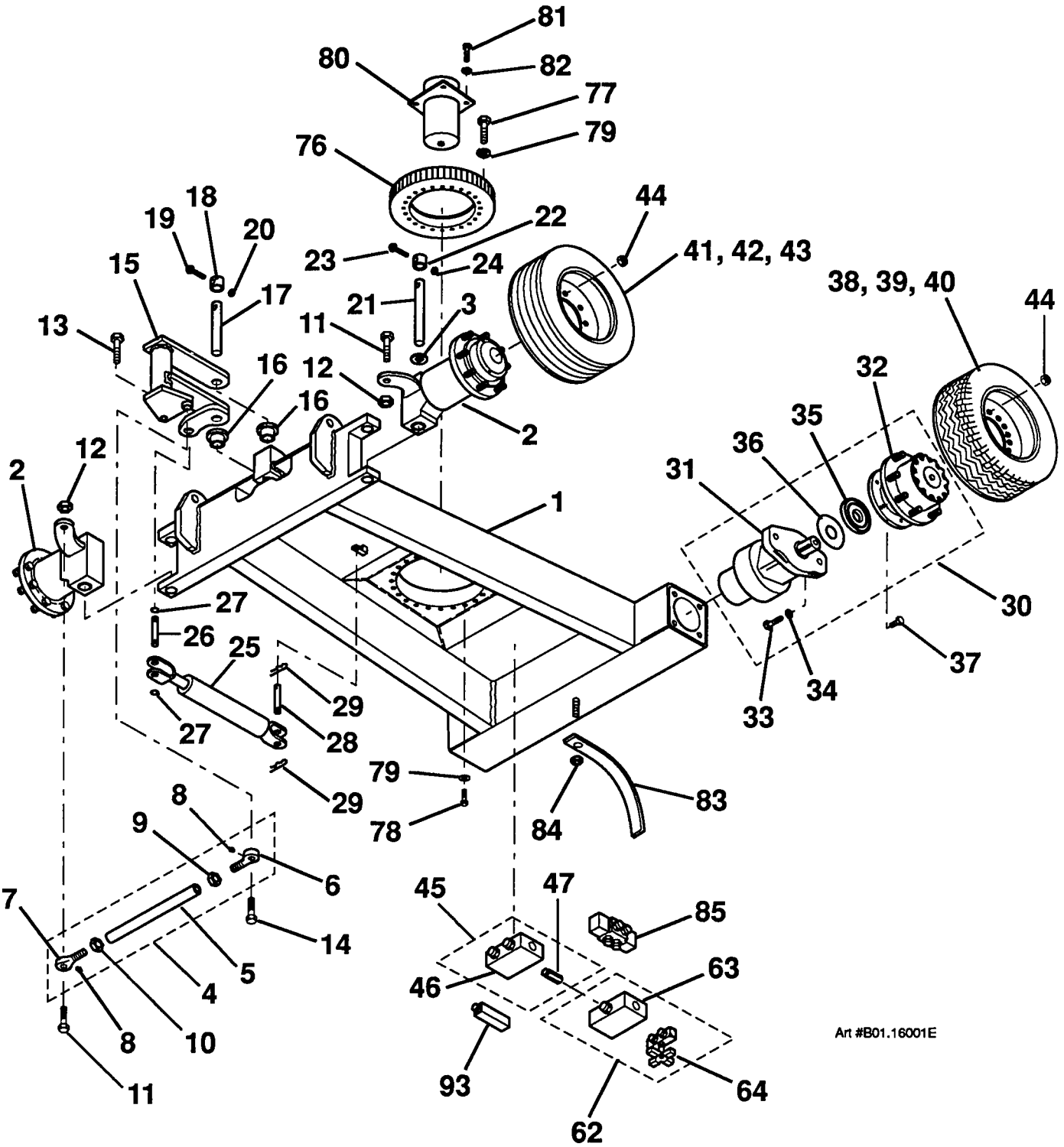
0385

DESCRIPTION	PART NO.
4WD ASSEMBLY	CAA-208472-7

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			This undercarriage for medium reach, std. capacity MP series For 4WD components, see plate B01.18 (for 2WD/ 4WD) or B01.27 (for "Full Time" 4WD).	
1	2124760		UNDERCARRIAGE WELDMENT (for two-wheel drive)	1
2	3502495	C01.14	SPINDLE ASSEMBLY (Right hand) (for two-wheel drive)	1
	3503089	C01.15	SPINDLE ASSEMBLY (Left hand) (for two-wheel drive)	1
3	08-014100		WASHER, THRUST (1-1/2" i.d., 3-1/2" o.d.)	2
4	3511980		TIE ROD ASSEMBLY	2
5	2123220		TIE ROD	1
6	08-007100		END, TIE ROD (R.H. thread)	1
7	08-060600		END, TIE ROD (L.H. thread)	1
8	08-053100		FITTING, GREASE (1/4"-28, Straight)	2
9	07-047122		NUT, JAM (3/4"-16, R.H. thread, Grade 2)	1
10	07-047222		NUT, JAM (3/4"-16, L.H. thread, Grade 2)	1
11	07-004650		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/4", Grade 8)	2
12	07-047122		NUT, HEX JAM (3/4"-16, Grade 2)	2
13	07-004651		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/2", Grade 8)	1
14	07-004655		CAP SCREW, HEX HEAD (3/4"-16 x 3-1/4", Grade 8)	1
15	2004208		ARM, CENTER STEER (without tow package) **(Note:** with tow package, also order part #2103610. Welding required.)	1
16	08-002000		BEARING, FLANGED (1-1/2" i.d.,1-3/4"-2" o.d.,1-1/2" dia.)	2
17	2105980		PIN, STEER ARM (1-1/2" dia. x 11-3/4" long)	1
18	2144330		COLLAR, LOCK (1-1/2")	1
19	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	1
20	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
21	2105980		PIN, SPINDLE (1-1/2" dia. x 11-3/4" long)	2
22	2106320		COLLAR, LOCK (1-1/2")	2
23	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	2
24	07-058400		NUT, LUG (1/2"-13, Grade 8)	2
25	See index	D01.--	CYLINDER, STEER	1
26	2171250		PIN, STEER CYLINDER (1" dia. x 3-7/16") (rod end)	1
27	08-040600		RING, RETAINING (1")	2
28	04-003401		PIN, STEER CYLINDER (1" dia. x 3-1/2" long) (base end)	1
29	04-003404		CLIP, HAIR PIN	2
30			DRIVE HUB ASSEMBLY	2
31	See index	D03.--	MOTOR, HYDRAULIC	1
32	See index	F01.--	HUB, TORQUE	1
33	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	2
34	07-065018		WASHER, HELICAL LOCK (1/2")	2
35	01-030900		SEAL, MOTOR TO TORQUE HUB	1
36	2176980		SPACER, MOTOR TO TORQUE HUB	1
37	07-004087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 8)	12

TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 1 OF 3)			
PLATE NO.	B01.16	**SIMON AERIALS INC.**	REV. 06/03/91	PART NO.

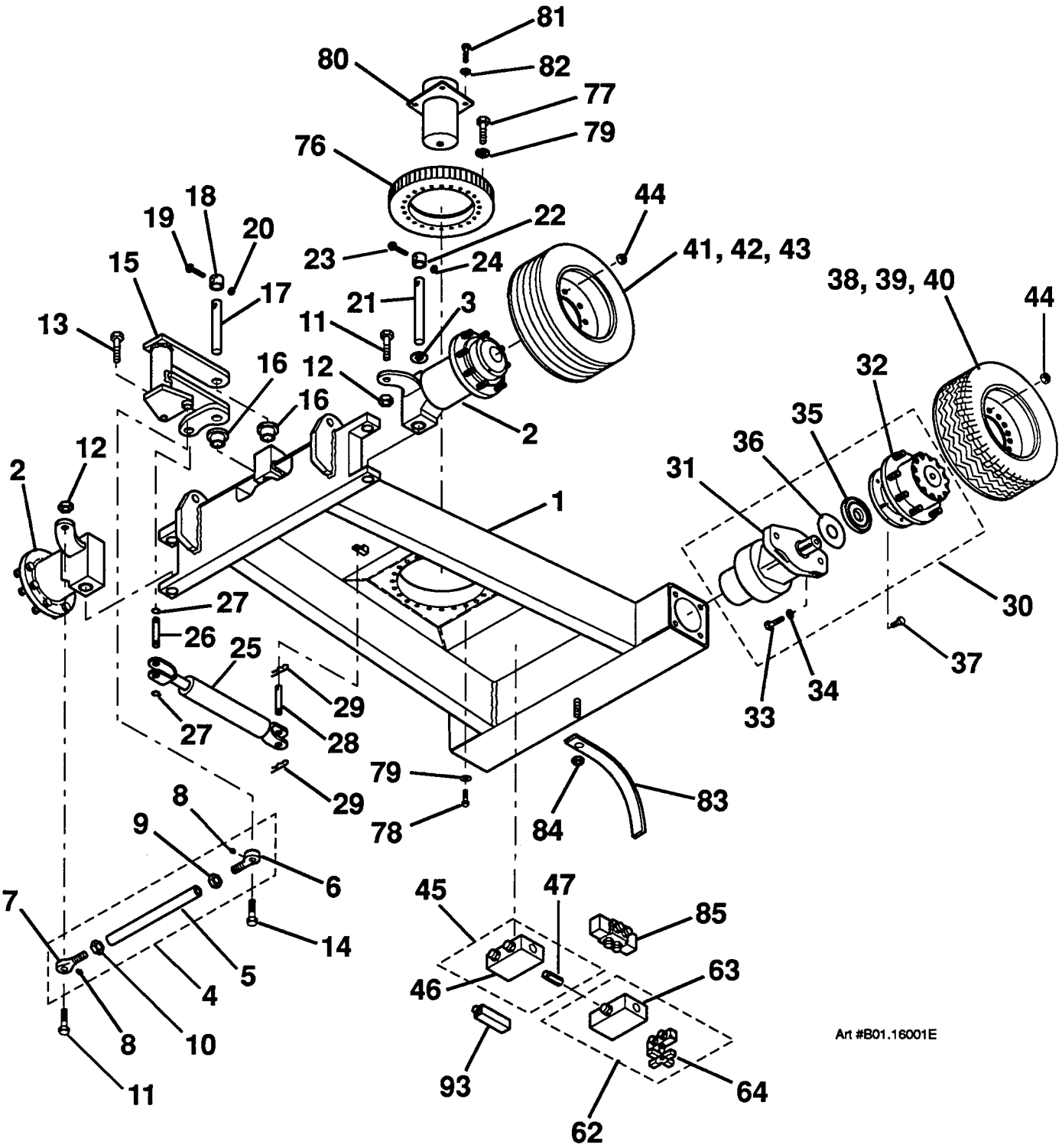


TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 06/03/91	PART NO.	PLATE NO. B01.16

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: When replacing tires, or tire and wheel assemblies, it is important that left and right sides of a single axle match in brand and type. Refer to tire descriptions below:	
38	3515620		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	3515710		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
39	02-024700		TIRE (15-19.5 **"Jumbo Super All Grip"** Tubeless)	1
40	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
38	3503104		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	3508460		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
39	02-001300		TIRE (15-19.5 **"Custom Xtra Grip"** Tubeless)	1
40	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
41	3515630		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
	3515720		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2
42	02-024800		TIRE (15-19.5 **"Jumbo Jet Cargo"** Tubeless)	1
43	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
41	3510016		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
	3508534		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2
42	02-001200		TIRE (15-19.5 **"Custom Hi-Miler"** Tubeless)	1
43	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
44	07-058123		NUT, FLANGED (Self locking) (3/4"-16, Grade 5)	40
45			VALVE ASSEMBLY, MOTION CONTROL	1
46	01-013100		VALVE, MOTION CONTROL (10:1 pilot ratio)	1
47	01-018900		VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports)	1
48	06-021300		TEE, UNION (12 JTX)	1
49	06-039800		CONNECTOR, STRAIGHT THREAD (6 F50X)	1
50	06-041100		CONNECTOR, STRAIGHT THREAD (12-16 F50X)	2
51	06-044500		ELBOW, STRAIGHT THREAD (6-4 C50X)	1
52	06-045600		ELBOW, STRAIGHT THREAD (12-16 C50X)	1
53	06-050000		TEE, STRAIGHT THREAD (6 S50X)	1
54	3507665		TUBE ASSEMBLY	1
55			TUBE	1
56	06-057800		NUT, TUBE (12 BTX)	2
57	06-059300		SLEEVE (12 TX)	2
58	3507867		TUBE ASSEMBLY	1
59			TUBE	1
60	06-057500		NUT, TUBE (6 BTX)	2
61	06-059000		SLEEVE (6 TX)	2

TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 2 OF 3)			
PLATE NO.	B01.16	**SIMON AERIALS INC.**	REV. 06/03/91	PART NO.

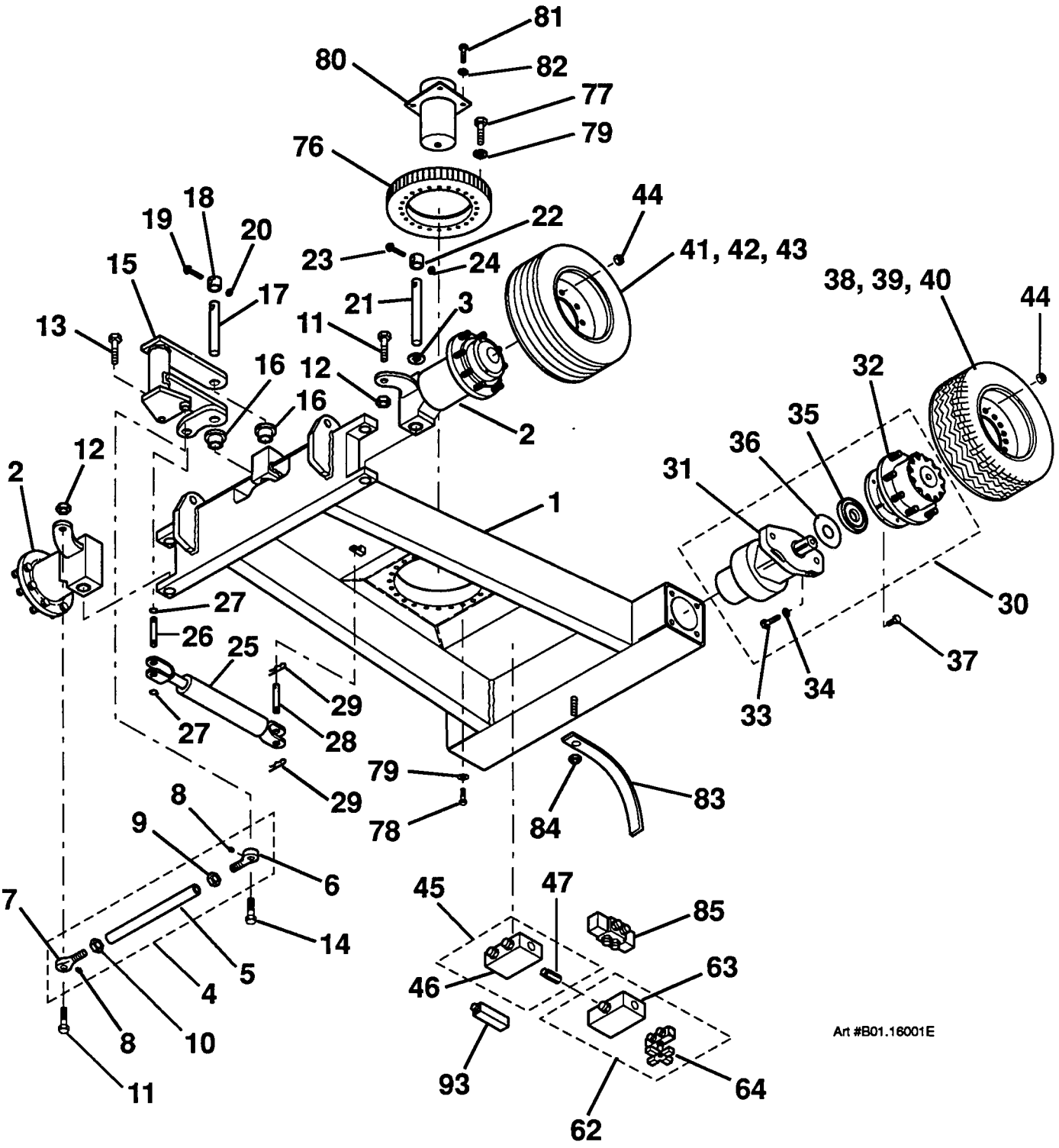


TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 2 OF 3)		
SIMON AERIALS INC.	REV. 06/03/91	PART NO.	PLATE NO. B01.16

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			For 4WD components, see plate B01.18 (for 2WD/ 4WD) or B01.27 (for "Full Time" 4WD).	
62			VALVE ASSEMBLY, FLOW DIVIDER	1
63	01-018300		VALVE, FLOW DIVIDER	1
64	01-034800		VALVE, GLOBE (1/4" NPT Female thread, both ends)	1
65	06-002000		CONNECTOR, MALE (12-16 FTX)	1
66	06-003800		ELBOW, MALE (6 CTX)	2
67	06-012300		RUN TEE, MALE (12 RTX)	2
68	06-051800		ELBOW, SWIVEL NUT (12 C6X)	1
69	06-054800		RUN TEE, SWIVEL NUT (12 R6X)	1
70	06-057800		NUT, TUBE (12 BTX)	2
71	06-060800		REDUCER, TUBE END (12-6 TRTX)	2
72	3507654		TUBE ASSEMBLY	2
73			TUBE	1
74	06-057800		NUT, TUBE (12 BTX)	2
75	06-059300		SLEEVE (12 TX)	2
76	08-057100		SWING BEARING	1
77	07-004655		CAP SCREW, HEX HEAD (3/4"-16 x 3-1/4", Grade 8)	18
78	07-00 4152		CAP SCREW, HEX HEAD (3/4"-16 x 2-3/4", Grade 8)	23
79	07-061022		WASHER, FLAT (3/4" SAE)	41
80	See Index	D02.--	SWIVEL, HYDRAULIC	1
81	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
82	07-065018		WASHER, HELICAL LOCK (1/2")	4
83	03-472100		STRAP, GROUNDING (option)	1
84	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
			Items below used on units with two-speed drive option:	
85			VALVE ASSEMBLY, SELECTOR	1
86	01-062000		VALVE, HI/ LOW SPEED DRIVE (Pilot operated)	1
87	06-040800		CONNECTOR, STRAIGHT THREAD (12 F50X)	3
88	06-044500		ELBOW, STRAIGHT THREAD (6-4 C50X)	1
89	06-045400		ELBOW, STRAIGHT THREAD (12 C50X)	2
90	06-056300		TEE, SWIVEL (12 S6X)	1
91	06-057800		NUT, TUBE (12 BTX)	1
92	06-060800		REDUCER, TUBE END (12-6 TRTX)	1
93	01-011400		VALVE, CARTRIDGE RELIEF	1

TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 3 OF 3)			
PLATE NO.	B01.16	**SIMON AERIALS INC.**	REV. 06/03/91	PART NO.

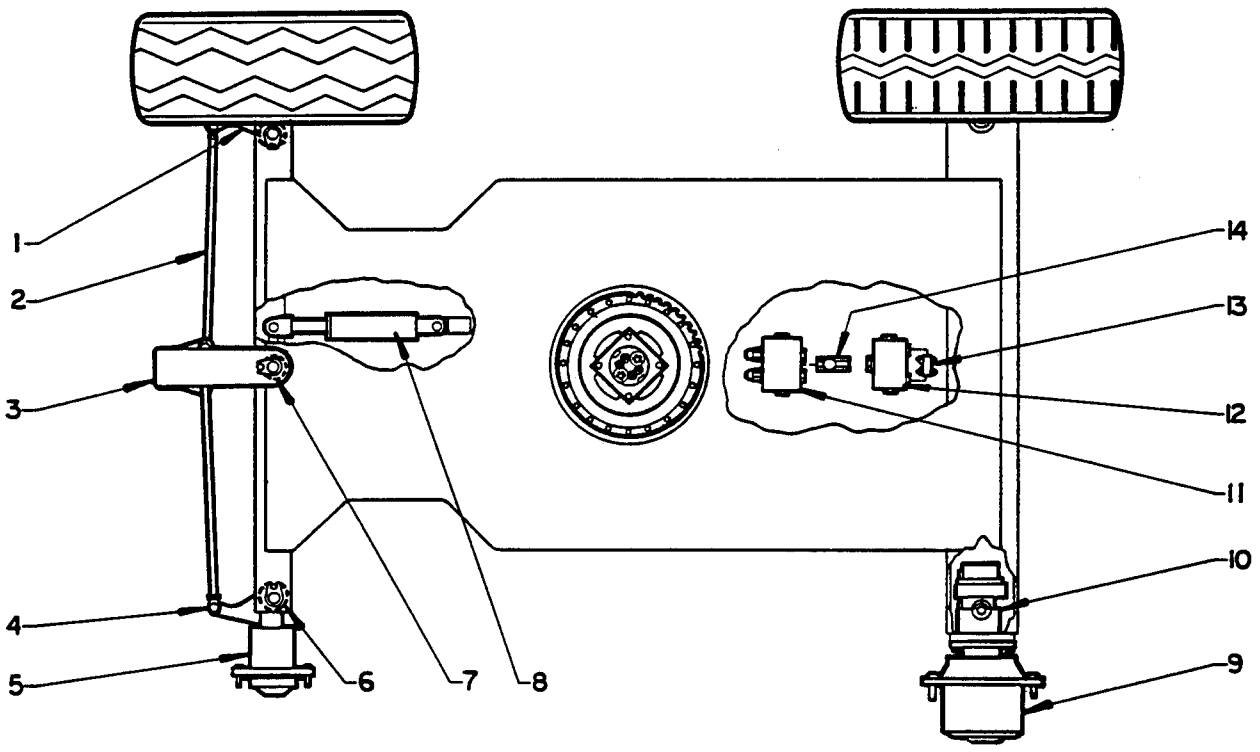


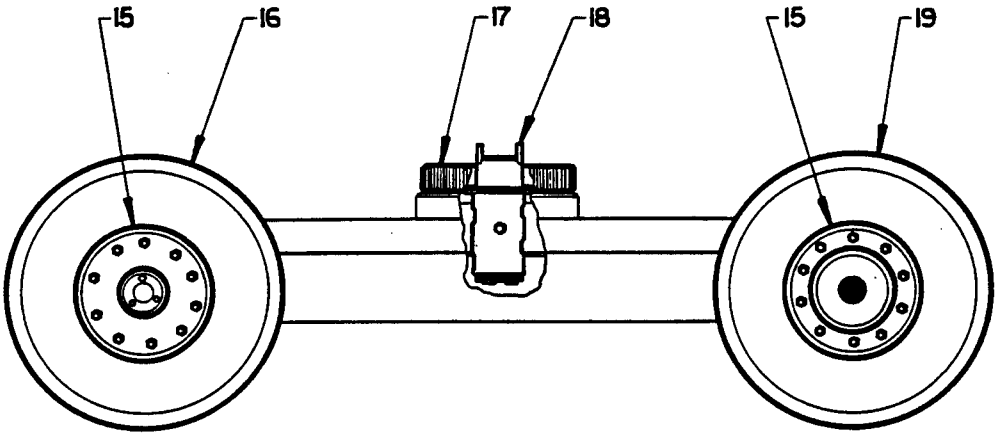
TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 06/03/91	PART NO.	PLATE NO. B01.16

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEA-206184-7	C1.5	R.H. SPINDLE ASSEMBLY	1
2	SCA-205108-6		TIE ROD	2
3	SDW-202429-5		CENTER STEER ARM	1
4	08-007100		TIE ROD END	4
5	SEA-206183-4	C1.6	L.H. SPINDLE ASSEMBLY	1
6	08-014100		THRUST WASHER	2
7	08-002000		FLANGE BUSHING	1
8	SEE INDEX	D1	STEER CYLINDER	1
9	SEE INDEX	F1	TORQUE HUB	2
10	SEE INDEX	D3	DRIVE MOTOR/BRAKE	2
11	01-013100		MOTION CONTROL VALVE	1
12	01-018300		FLOW DIVIDER/COMBINER	1
13	01-034800		GATE VALVE	1
14	01-000500		NEEDLE VALVE	1
15	02-008400		RIM	4
16	02-001200		STEER TIRE	2
17	08-009900		SWING BEARING	1
18	SEE INDEX	D2	HYDRAULIC SWIVEL	1
19	02-008300		DRIVE TIRE	2

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-209802-7





NOTE: SEE PAGE B1.18 FOR 4WD COMPONENTS

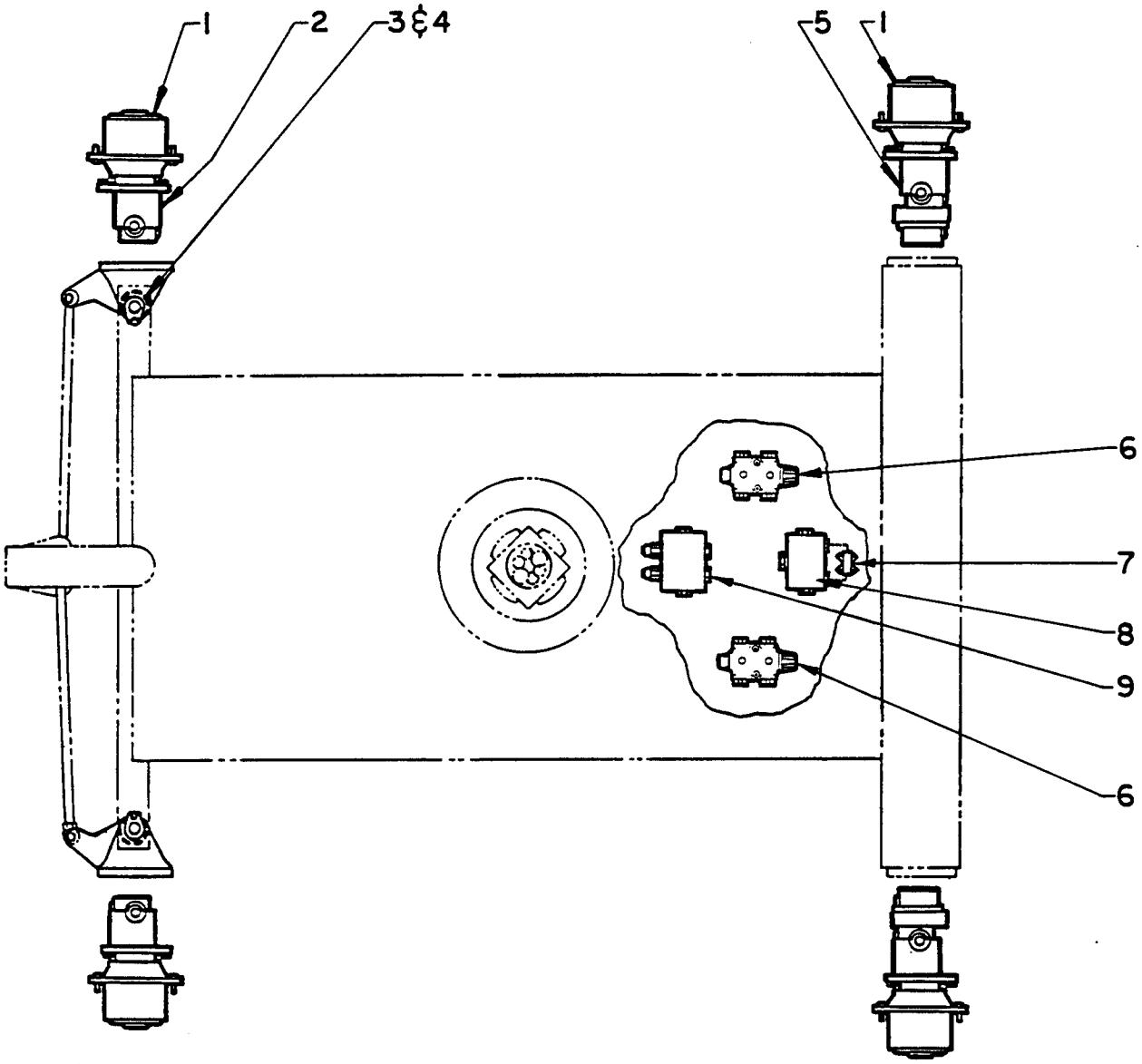
1185/1085

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-209802-7

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	F1	TORQUE HUB	1
2	SEE INDEX	D3	DRIVE MOTOR	2
3	08-004200		THRUST WASHER	2
4	SAD-201073-5		SLEEVE BEARING	2
5	SEE INDEX	D3	DRIVE MOTOR/BRAKE	2
6	01-018100		SELECTOR VALVE	2
7	01-034800		GATE VALVE	1
8	01-018800		FLOW DIVIDER/COMBINER (USED W/PUMPS @ 24GPM & LESS)	1
8	01-018300		FLOW DIVIDER/COMBINER (USED W/PUMPS @ 30GPM & MORE)	1
9	01-012400		MOTION CONTROL VALVE (USED W/PUMPS @ 24GPM & LESS)	1
9	01-013100		MOTION CONTROL VALVE (USED W/PUMPS @ 30GPM & MORE)	1

DESCRIPTION	PART NO.
4WD ASSEMBLY	CAA-209805-4



1185/0885

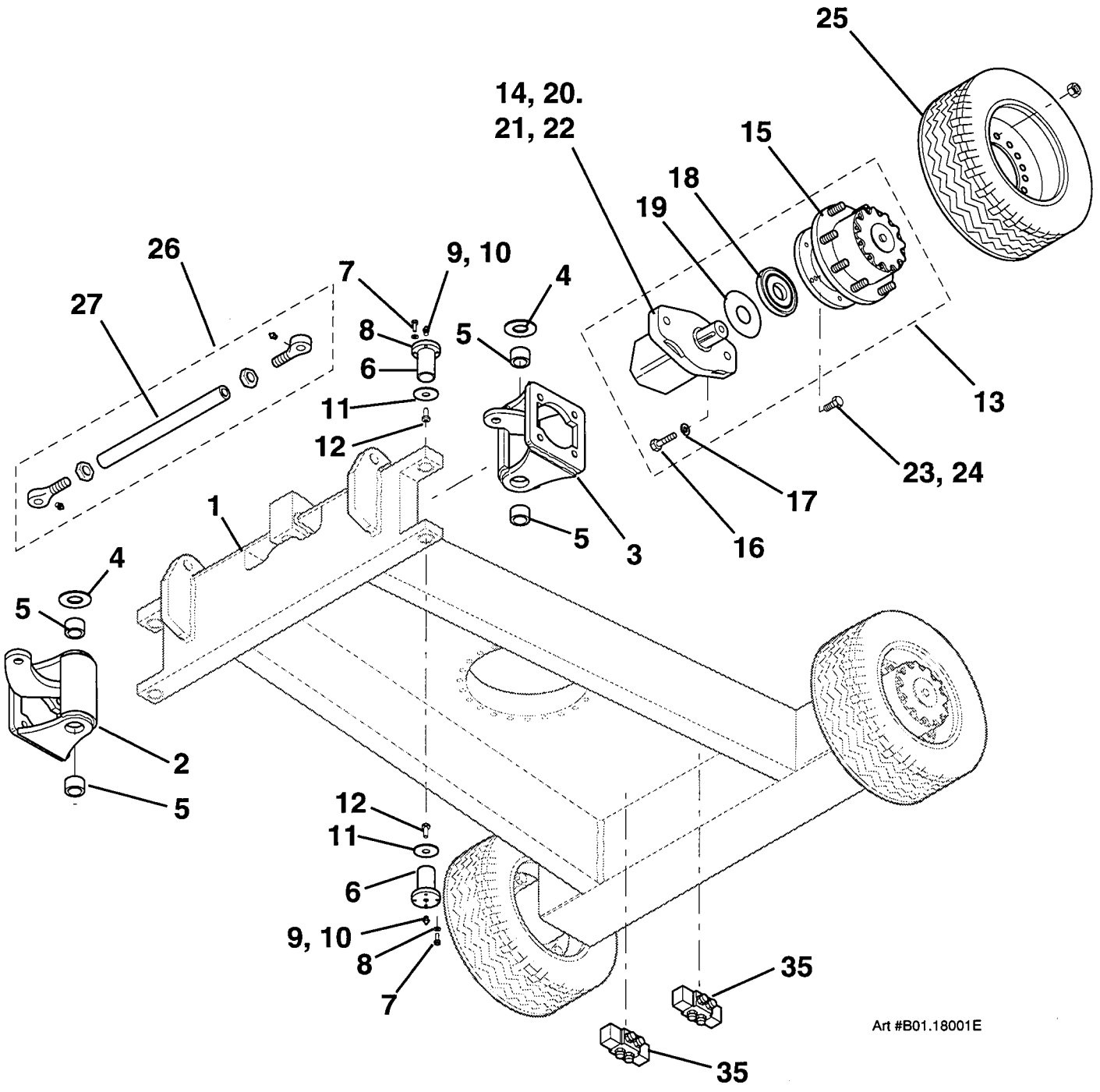
DESCRIPTION	PART NO.
4WD ASSEMBLY	CAA-209805-4

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			This plate identifies items found only on MP's with the **"Two wheel drive/ Four wheel drive" option**. It contains only those items that are used **in addition to** or **in place of** items shown on the "Two wheel drive" Undercarriage parts plate. For items used with the **"Full time four wheel drive" option**, see plate B01.27.	
1			UNDERCARRIAGE WELDMENT	
			(For four-wheel drive. Replaces part shown on 2WD plate.)	1
	207 0913		For model MP 40	
	219 0900		For model MPH 42, MP 50	
	205 4120		For model MP 60, MP 70	
	205 9543		For model MP 60Z, MPH 60, MP 70	
	230 6860		For model MP 80	
2			SPINDLE ASSEMBLY, FRONT DRIVE (Right hand)	
			(For four-wheel drive. Replaces part shown on 2WD plate.)	1
	202 4493		For model MP 40	
	202 2631		For all except MP 40	
3			SPINDLE ASSEMBLY, FRONT DRIVE (Left hand)	
			(For four-wheel drive. Replaces part shown on 2WD plate.)	1
	202 4507		For model MP 40	
	202 2644		For all except MP 40	
4	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
5	201 0735		BEARING, SLEEVE (2-3/8" O.D. x 1-3/4" long)	4
6	234 0700		PIN, STEER (replaces earlier pin 201 4405)	
			(For four-wheel drive. Replaces part shown on 2WD plate.)	4
7	07-008046		CAP SCREW, SOCKET HEAD (3/8"-16 x 1-1/4", Grade 8)	16
8	07-065016		WASHER, HELICAL LOCK (3/8")	16
9	08-051300		FITTING, GREASE (1/8", 90°)	4
10	08-066300		CAP, GREASE FITTING (White plastic)	4
11	214 2180		RETAINER, STEER SPINDLE BUSHING	2
12	07-017083		CAP SCREW, BUTTON HEAD (1/2"-13 x 3/4", Grade 5)	2
13			DRIVE HUB ASSEMBLY (steer wheels)	2
14	See index	D03.--	MOTOR, HYDRAULIC (without brake)	1
15	See index	F01.--	HUB, TORQUE	1
16	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	2
17	07-065018		WASHER, HELICAL LOCK (1/2")	2
18	01-030900		SEAL (used with torque hub having cast housing)	1
19	217 6980		SPACER (used with torque hub having cast housing)	1

TITLE TWO WHEEL/ FOUR-WHEEL DRIVE OPTION, MP (PLATE 1 OF 2)

PLATE NO. B01.18 | **SIMON AERIALS INC.** REV. 11 JUN, 1996 | PART NO.



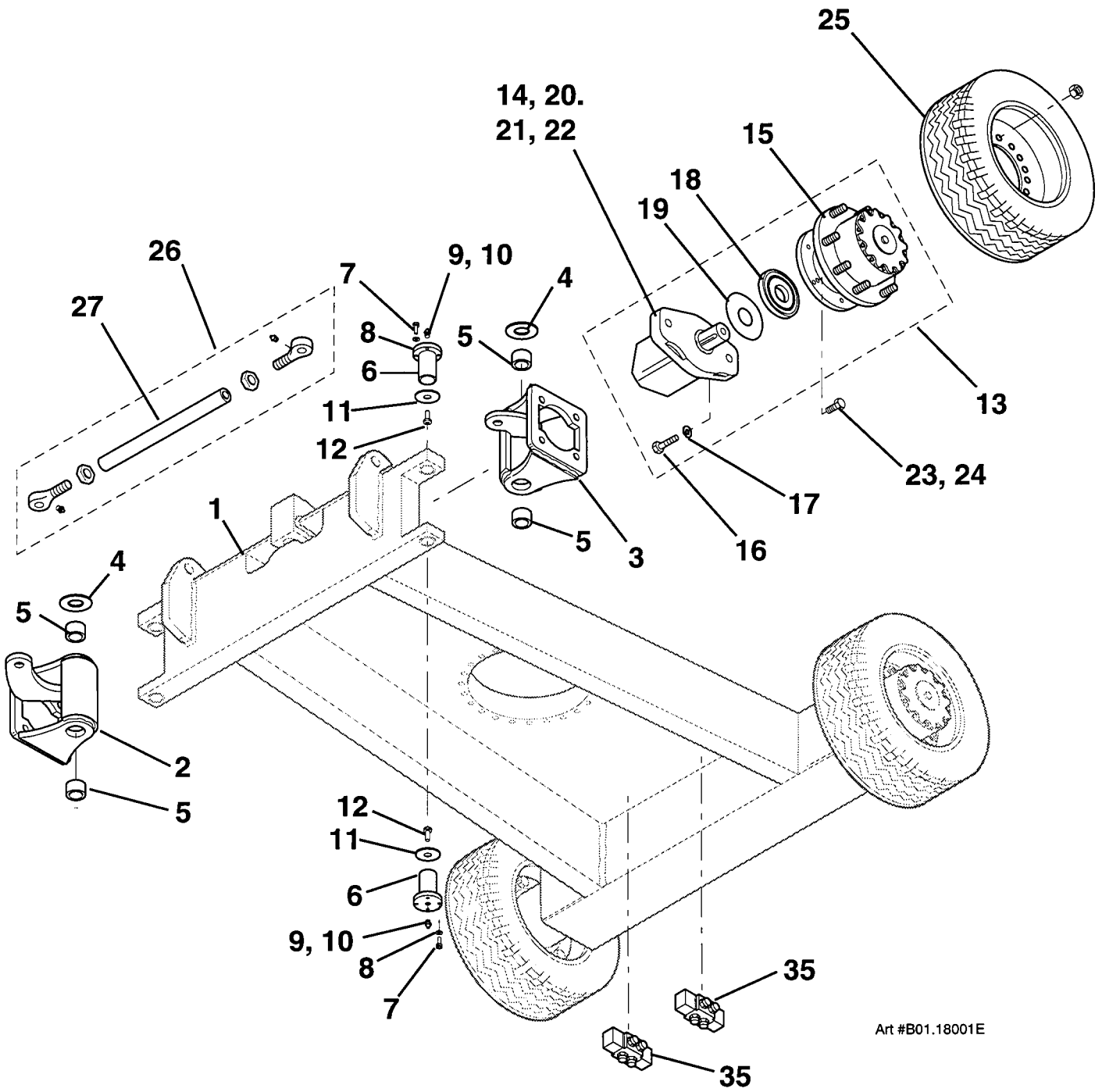
TITLE	TWO WHEEL/ FOUR-WHEEL DRIVE OPTION, MP (PLATE 1 OF 2)		
SIMON AERIALS INC.	REV. 11 JUN, 1996	PART NO.	PLATE NO. B01.18

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
20	06-047400		45° ELBOW, "O"-RING TO 37° (12 V50X-S)	2
21	06-045400		90° ELBOW, "O"-RING TO 37° (12 C50X-S)	2
22	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C50X-S)	2
23			CAP SCREW, HEX HEAD	
	07-004087		1/2"-13 x 1-1/2", Grade 8 (for 6-bolt mount torque hub)	12
	07-004128		5/8"-11 x 1-3/4", Grade 8 (for 8-bolt mount torque hub)	16
24	07-065021		WASHER, HELICAL LOCK (5/8") (for 8-bolt torque hub)	16
25			TIRE AND WHEEL ASSEMBLY, DRIVE (refer to **drive wheel** shown on 2WD plate.)	4
26	351 1990		TIE ROD ASSEMBLY (for Model MP 40, MPH 42, MP 50)	2
27	212 3230		TIE ROD (30.12" [76.5 cm] long)	1
26	351 2000		TIE ROD ASSEMBLY (for Model MP 60)	2
27	212 3240		TIE ROD (29.19" [74 cm] long)	1
26	351 5790		TIE ROD ASSEMBLY (for Model MP 60Z, MPH 60, MP 70, MP 80)	2
27	214 3670		TIE ROD (29.19" [74 cm] long, reinforced)	1
28	208 9148		CLAMP, DRIVE HOSE	10
29	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	8
30	07-062016		WASHER, FLAT (3/8")	8
31	07-003031		CAP SCREW, HEX HEAD (5/16"-18 x 2-1/2", Grade 5)	12
32	07-050015		NUT, HEX STOP (5/16"-18, Grade 5)	12
33	07-062015		WASHER, FLAT (5/16")	24
34	10-150900		SLEEVE, COIL (Plastic, 1" dia.) (Bulk item, order as needed. 8 ft [2.44 M] required this application)	A.R.
35	01-230500		VALVE, SELECTOR (replaces earlier valve 01-018100) (For four-wheel drive. Replaces part shown on 2WD plate.) **Note:** The flow control valve (needle valve) shown on 2WD Undercarriage page plate is not used with 2WD/ 4WD option.	2

TITLE TWO WHEEL/ FOUR-WHEEL DRIVE OPTION, MP (PLATE 2 OF 2)

PLATE NO. B01.18 | **SIMON AERIALS INC.** REV. 11 JUN, 1996 | PART NO.

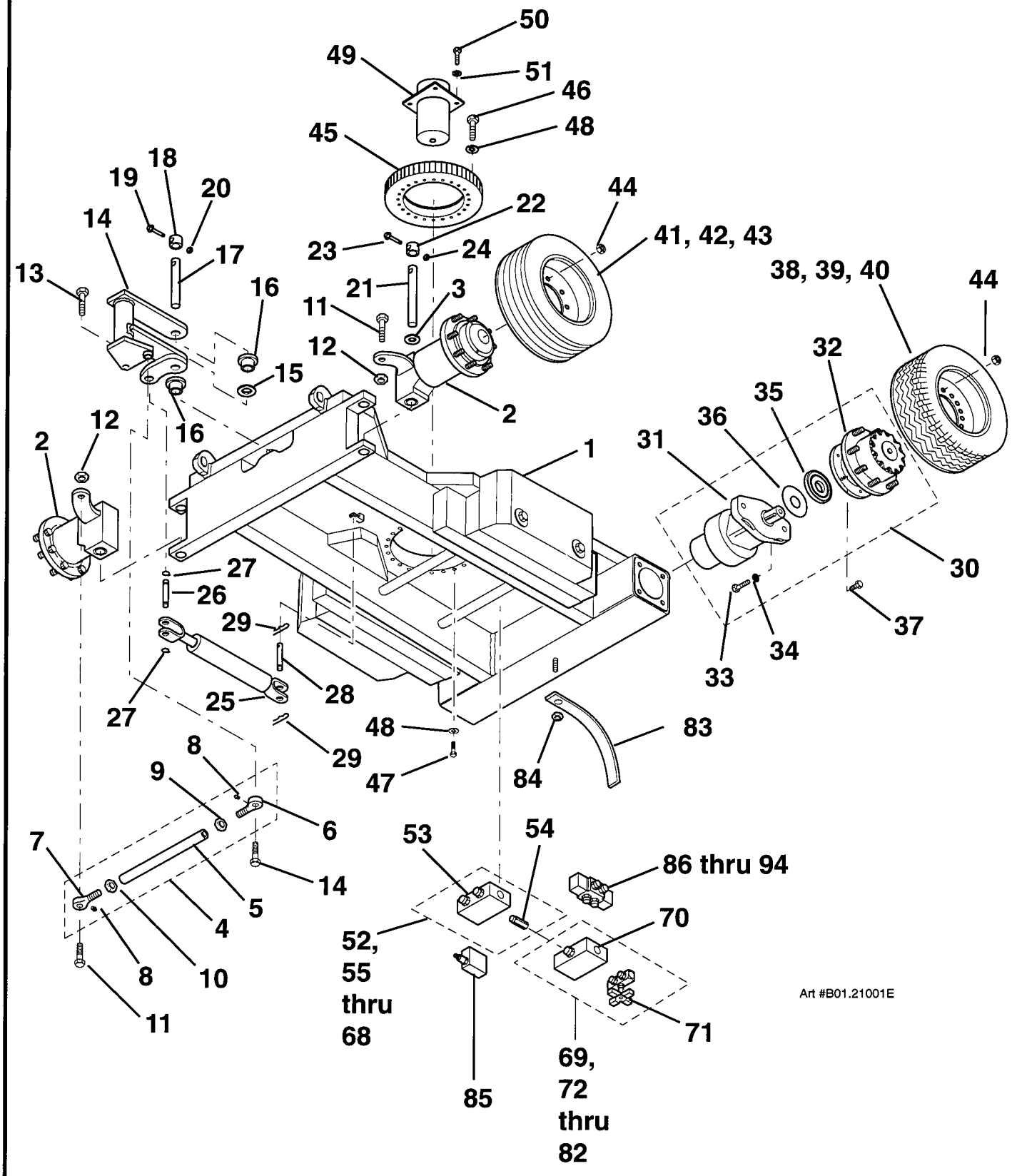


TITLE	TWO WHEEL/ FOUR-WHEEL DRIVE OPTION, MP (PLATE 2 OF 2)		
SIMON AERIALS INC.	REV. 11 JUN, 1996	PART NO.	PLATE NO. B01.18

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			UNDERCARRIAGE WELDMENT (for two-wheel drive)	1
2	See index	C01. - -	SPINDLE ASSEMBLY (Right hand) (for two-wheel drive)	1
	See index	C01. - -	SPINDLE ASSEMBLY (Left hand) (for two-wheel drive)	1
3	08-014100		WASHER, THRUST (1-1/2" I.D., 3-1/2" O.D.)	2
4	351 0483		TIE ROD ASSEMBLY	2
5	210 5110		TIE ROD	1
6	08-007100		END, TIE ROD (R.H. thread)	1
7	08-060600		END, TIE ROD (L.H. thread)	1
8	08-053100		FITTING, GREASE (1/4"-28, Straight)	2
9	07-047122		NUT, JAM (3/4"-16, R.H. thread, Grade 2)	1
10	07-047222		NUT, JAM (3/4"-16, L.H. thread, Grade 2)	1
11	07-004650		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/4", Grade 8)	2
12	07-047122		NUT, HEX JAM (3/4"-16, Grade 2)	2
13	07-004651		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/2", Grade 8)	2
14			ARM, CENTER STEER (without tow package)	1
	200 4208		Steer arm pivot to cylinder dimension is 6.5" (165 mm).	1
	230 2530		Pivot to cylinder dim. 6.84" (174 mm) (later 4WD versions).	1
	210 3610		ARM, CENTER STEER (with tow package)	1
15	200 4277		SPACER, CENTER STEER ARM (7/8" [22 mm] thick)	1
16	08-002000		BEARING, FLANGED (1-1/2" I.D.,1-3/4"-2" O.D.,1-1/2" dia.)	2
17	218 6910		PIN, STEER ARM (1-1/2" dia. x 11-3/4" long)	1
18	214 4330		COLLAR, LOCK (1-1/2")	1
19	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	1
20	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
21	210 5980		PIN, STEER ARM (1-1/2" dia. x 11-3/4" long)	2
22	210 6320		COLLAR, LOCK (1-1/2")	2
23	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	2
24	07-058400		NUT, LUG (1/2"-13, Grade 8)	2
25	See index	D01. - -	CYLINDER, STEER	1
26	217 1250		PIN, STEER CYLINDER (1" dia. x 3-7/16") (rod end)	1
27	08-040600		RING, RETAINING (1")	2
28	04-003401		PIN, STEER CYLINDER (1" dia. x 3-1/2" long) (base end)	1
29	04-003404		CLIP, HAIR PIN	2
30			DRIVE HUB ASSEMBLY	2
31	See index	D03. - -	MOTOR, HYDRAULIC (with brake)	1
32	See index	F01. - -	HUB, TORQUE	1
33	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	2
34	07-065018		WASHER, HELICAL LOCK (1/2")	2
35	01-030900		SEAL, MOTOR TO TORQUE HUB	A.R.
36	217 6980		SPACER, MOTOR TO TORQUE HUB	A.R.
37	07-004087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 8)	12
			For 4WD components, see plate B01.18 or B01.27.	

TITLE UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 1 OF 3)



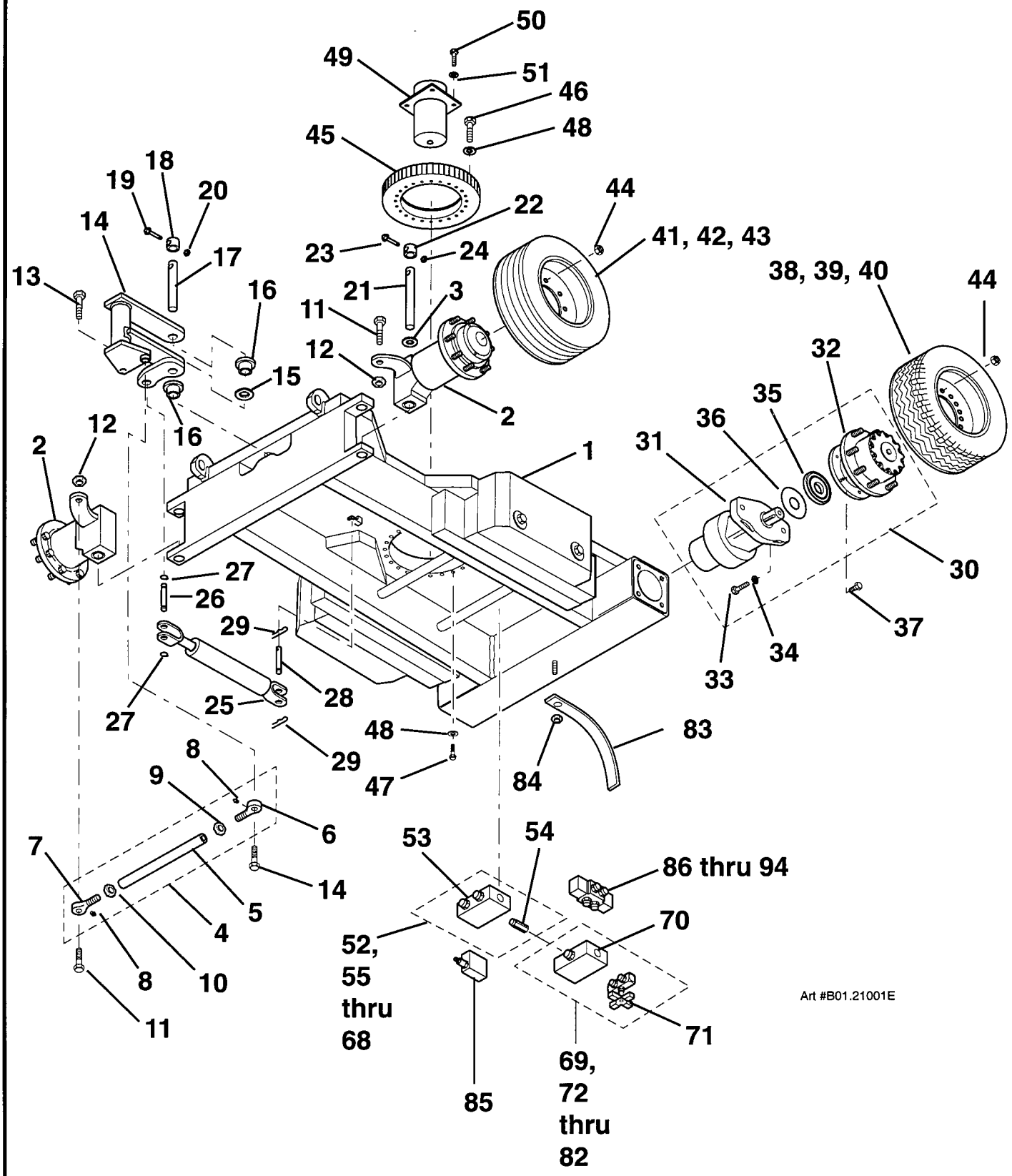
TITLE	UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 02 FEB., 1995	PART NO.	PLATE NO. B01.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: When replacing tires, or tire and wheel assemblies, it is important that left and right sides of a single axle match in brand and type. Refer to tire descriptions below:	
38	351 5620		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	351 5710		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
39	02-024700		TIRE (15-19.5 **"Jumbo Super All Grip"** Tubeless)	1
40	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
38	350 3104		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	350 8460		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
39	02-001300		TIRE (15-19.5 **"Custom Xtra Grip"** Tubeless)	1
40	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
38	354 0830		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	354 0840		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
39	02-047800		TIRE (15-19.5 **"Loader Lug"** 14 Ply Tubeless)	1
40	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
41	351 5630		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
	351 5720		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2
42	02-024800		TIRE (15-19.5 **"Jumbo Jet Cargo"** Tubeless)	1
43	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
41	351 0016		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
	350 8534		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2
42	02-001200		TIRE (15-19.5 **"Custom Hi-Miler"** Tubeless)	1
43	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
44	07-058123		NUT, FLANGED (Self locking) (3/4"-16, Grade 5)	40
45	08-057100		SWING BEARING	1
46	07-004655		CAP SCREW, HEX HEAD (3/4"-16 x 3-1/4", Grade 8)	18
47	07-004152		CAP SCREW, HEX HEAD (3/4"-16 x 2-3/4", Grade 8)	23
48	07-061022		WASHER, FLAT (3/4" SAE)	18
49	See index	D02.--	SWIVEL, HYDRAULIC	1
50	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
51	07-065018		WASHER, HELICAL LOCK (1/2")	4
52	351 8230		VALVE ASSEMBLY, MOTION CONTROL	1
53	01-013100		VALVE, MOTION CONTROL (10:1 pilot ratio)	1
54	01-018900		VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports)	1
55	06-021300		TEE, UNION (12 JTX-S)	1
56	06-039800		CONNECTOR, STRAIGHT THREAD (6 F50X-S)	1

TITLE UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 2 OF 3)

PLATE NO.			PART NO.
B01.21	**SIMON AERIALS INC.**	REV. 02 FEB., 1995	



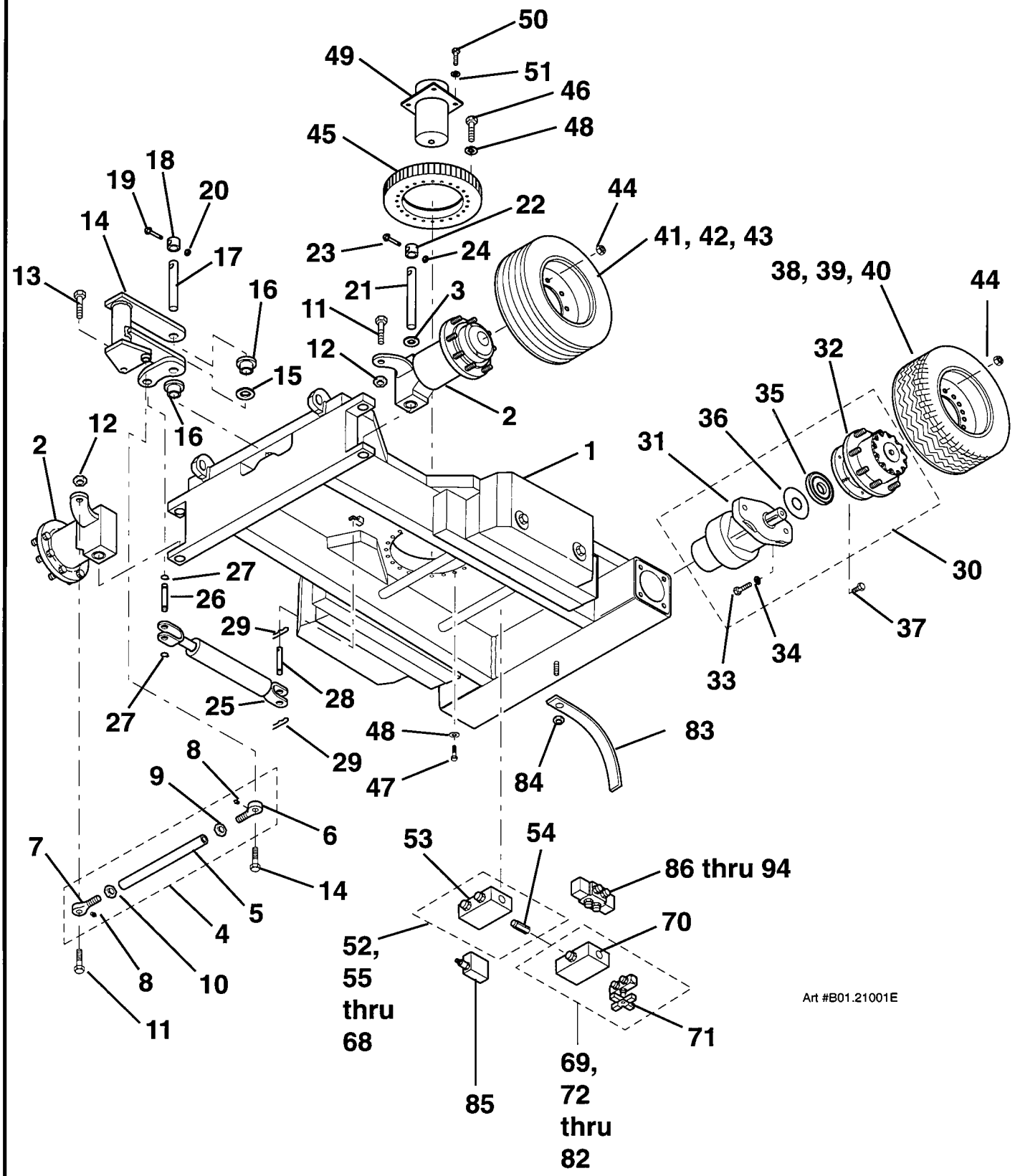
TITLE UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 2 OF 3)

SIMON AERIALS INC. REV. 02 FEB., 1995	PART NO.	PLATE NO. B01.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			VALVE ASSEMBLY, MOTION CONTROL (continued)	1
57	06-041100		CONNECTOR, STRAIGHT THREAD (12-16 F50X-S)	2
58	06-044500		ELBOW, STRAIGHT THREAD (6-4C50X-S)	1
59	06-045600		ELBOW, STRAIGHT THREAD (12-16 C50X-S)	2
60	06-050000		TEE, STRAIGHT THREAD (6 S50X-S)	1
61	350 7665		TUBE ASSEMBLY	1
62	06-057800		NUT, TUBE (12 BTX-S)	2
63	06-059300		SLEEVE (12TX-S)	2
64			TUBE	1
65	350 7867		TUBE ASSEMBLY	1
66	06-057500		NUT, TUBE (6 BTX-S)	2
67	06-059000		SLEEVE (6TX-S)	2
68			TUBE	1
69	351 8250		VALVE ASSEMBLY, FLOW DIVIDER	1
70	01-018300		VALVE, FLOW DIVIDER	1
71	01-034800		VALVE, GLOBE (1/4" NPT Female thread, both ends)	1
72	06-002000		CONNECTOR, MALE (12-16 FTX-S)	1
73	06-003800		ELBOW, MALE (6 CTX-S)	2
74	06-012300		RUN TEE, MALE (12 RTX-S)	2
75	06-051800		ELBOW, SWIVEL NUT (12 C6X-S)	1
76	06-054800		RUN TEE, SWIVEL NUT (12 R6X-S)	2
77	06-057800		NUT, TUBE (12 BTX-S)	2
78	06-060800		REDUCER, TUBE END (12-6 TRTX-S)	2
79	350 7654		TUBE ASSEMBLY	2
80	06-057500		NUT, TUBE (6 BTX-S)	2
81	06-059000		SLEEVE (6TX-S)	2
82			TUBE	1
83	03-472100		STRAP, GROUNDING (optional)	1
84	07-058400		NUT, HEX (1/2") (for grounding strap)	1
85	01-011400		VALVE, CARTRIDGE RELIEF	1
			Items below used on two-wheel drive units with two-speed drive option:	
86	351 8240		VALVE ASSEMBLY, SELECTOR	1
87	01-062000		VALVE, HI/ LOW SPEED DRIVE (Pilot operated)	1
88	01-062001		SEAL KIT, HI/ LOW SPEED DRIVE VALVE	1
89	06-040800		CONNECTOR, STRAIGHT THREAD (12 F50X-S)	3
90	06-044500		ELBOW, STRAIGHT THREAD (6-4 C50X-S)	1
91	06-045400		ELBOW, STRAIGHT THREAD (12 C50X-S)	3
92	06-056300		TEE, SWIVEL (12S6X-S)	1
93	06-057800		NUT, TUBE (12 BTX-S)	1
94	06-060800		REDUCER, TUBE END (12-6 TRTX-S)	1

TITLE UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 3 OF 3)



TITLE UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 3 OF 3)

SIMON AERIALS INC.	REV. 02 FEB., 1995	PART NO.	PLATE NO. B01.21

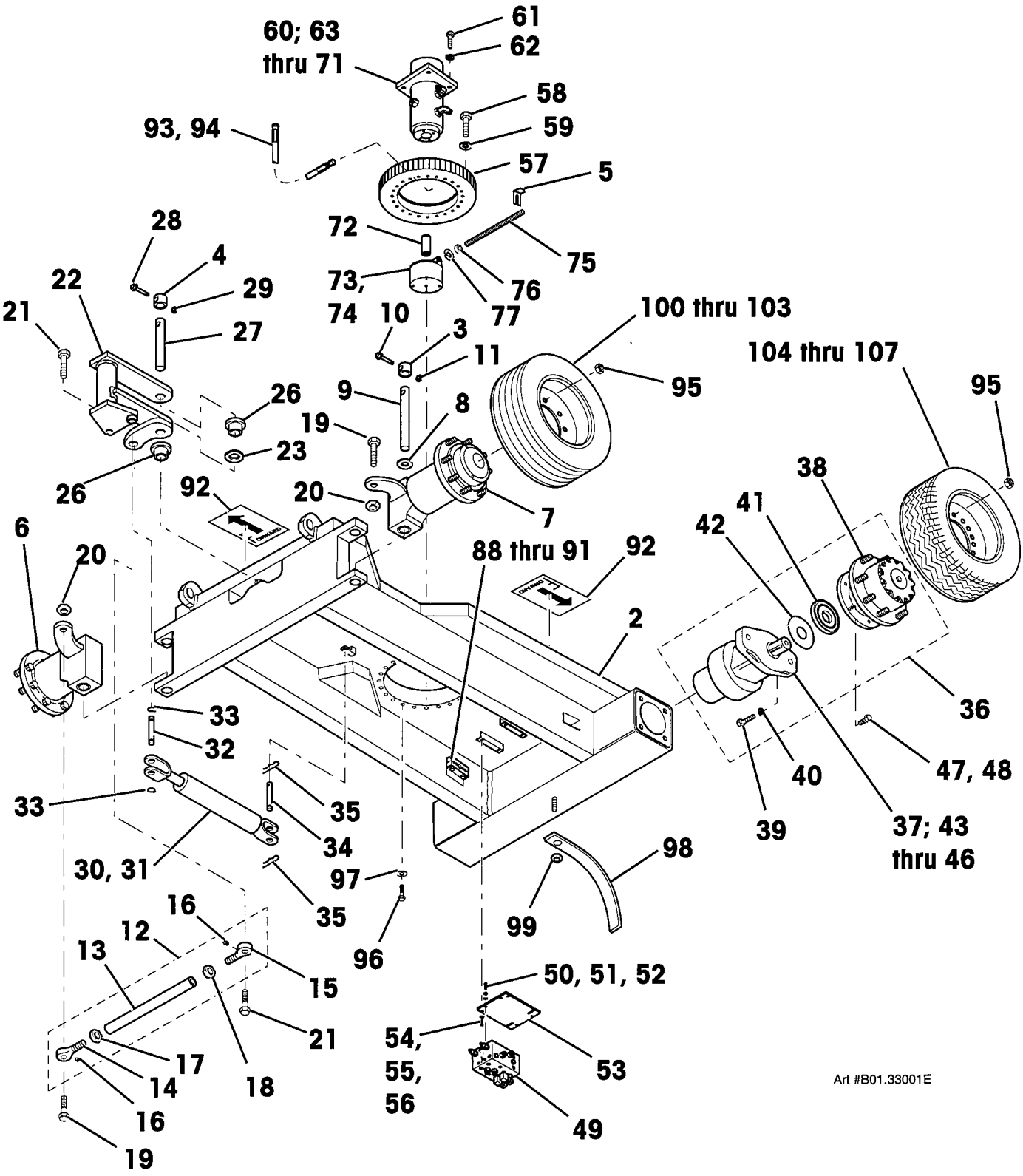
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 9760		UNDERCARRIAGE GROUP (MPH 60, 2WD, with Tri-Flow Manifold)	1
2	237 0730		UNDERCARRIAGE WELDMENT	1
3	210 6320		COLLAR, LOCK (1.5")	2
4	214 4330		COLLAR, LOCK (1.5")	1
5	207 0746		LOCK, ELECTRICAL SWIVEL	1
6	352 9910	C01.19	SPINDLE ASSEMBLY (Right hand)	1
7	352 9920	C01.19	SPINDLE ASSEMBLY (Left hand)	1
8	08-014100		WASHER, THRUST (1.5" I.D., 3.5" O.D.)	2
9	210 5980		PIN, STEER ARM (1.50" dia. x 11.75" long)	2
10	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	2
11	07-058400		NUT, LUG (1/2"-13, Grade 8)	2
12	351 0483		TIE ROD ASSEMBLY	2
13	210 5110		TIE ROD	1
14	08-007100		END, TIE ROD (R.H. thread)	1
15	08-060600		END, TIE ROD (L.H. thread)	1
16	08-053100		FITTING, GREASE (1/4"-28, Straight)	2
17	07-047122		NUT, JAM (3/4"-16, R.H. thread, Grade 2)	1
18	07-047222		NUT, JAM (3/4"-16, L.H. thread, Grade 2)	1
19	07-004650		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/4", Grade 8)	2
20	07-047122		NUT, HEX JAM (3/4"-16, Grade 2)	2
21	07-004651		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/2", Grade 8)	2
22			ARM, CENTER STEER	1
	200 4208		Without tow package	
	210 3610		With optional tow package	
23	200 4277		SPACER, CENTER STEER ARM (0.88" [22 mm] thick)	1
24	08-053100		FITTING, GREASE (1/4"-28, Straight)	1
25	08-066300		CAP, GREASE FITTING (White plastic)	1
26	08-002000		BEARING, FLANGED (1.5" I.D.,1.75"-2.0" O.D.,1.5" long)	2
27	218 6910		PIN, STEER ARM (1.50" dia. x 11.75" long)	1
28	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	1
29	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
30	04-035300	D01.11	CYLINDER, STEER	1
31	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	2
32	217 1250		PIN, STEER CYLINDER (1.0" dia. x 3.44") (rod end)	1
33	08-040600		RING, RETAINING (1")	2
34	04-003401		PIN, STEER CYLINDER (1.0" dia. x 3.50" long) (base end)	1
35	04-003404		CLIP, HAIR PIN	2

TITLE: UNDERCARRIAGE GROUP, MPH 60 (2WD)

SECTION B01. | PLATE NO. 33 | PAGE 01 | REV. - | DATED 31 JAN., 1997 | PART NO. 354 9760

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. 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: UNDERCARRIAGE GROUP, MPH 60 (2WD)					
	PART NO. 354 9760	REV. -	DATED 31 JAN., 1997	SECTION B01.	PLATE NO. 33	PAGE 01

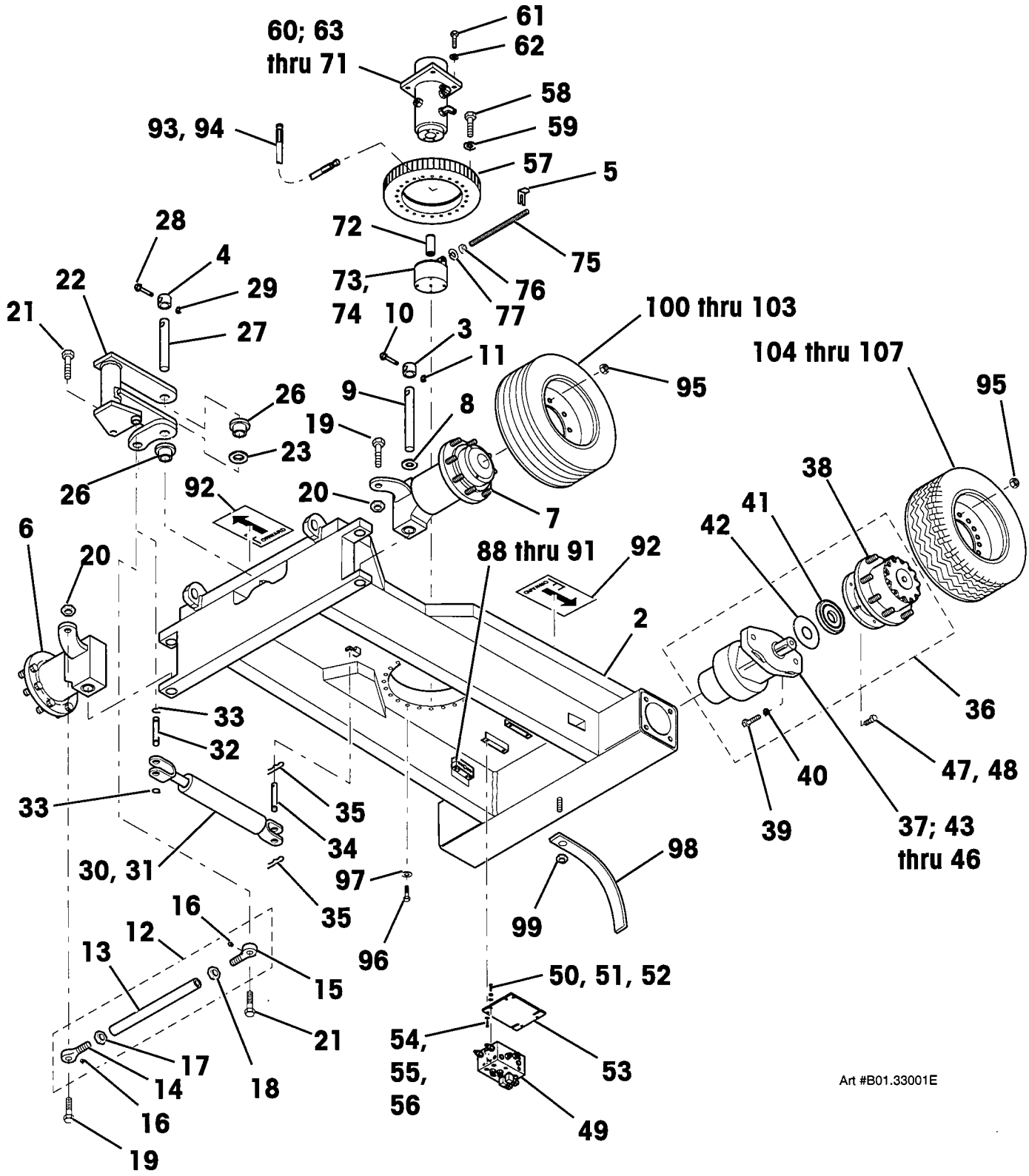
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			UNDERCARRIAGE ASSEMBLY (continued)	
36	354 5330		DRIVE HUB ASSEMBLY	2
37	01-064200	D03.09	MOTOR, HYDRAULIC (with brake)	1
38	02-048500	F01.08	HUB, TORQUE	1
39	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	2
40	07-065018		WASHER, HELICAL LOCK (1/2")	2
41	01-030900		SEAL, MOTOR TO TORQUE HUB	1
42	217 6980		SPACER, MOTOR TO TORQUE HUB	A.R.
43	06-097400		ADAPTER, 90° BENT STEM (4 IT3-12-12)	4
44	06-040800		ADAPTER, "O"-RING TO 37° (12 F5OX-S)	4
45	06-039300		ADAPTER, "O"-RING TO 37° (4 F5OX-S)	2
46	06-043000		ADAPTER (LONG), "O"-RING TO 37° (6 FF5OX-S)	2
47	07-004128		CAP SCREW, HEX HEAD (5/8"-11 x 1-3/4", Grade 8)	16
48	07-061021		WASHER, FLAT (5/8", hardened)	16
49	355 0800	C12.06	VALVE ASSEMBLY, DRIVE	1
50	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
51	07-065016		WASHER, HELICAL LOCK (3/8")	4
52	07-062016		WASHER, FLAT (3/8")	8
53	236 1790		PLATE, VALVE MOUNTING	1
54	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	4
55	07-062016		WASHER, FLAT (3/8")	8
56	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	4
57	08-080600		SWING BEARING	1
58	07-004660		CAP SCREW, HEX HEAD (3/4"-16 x 5-1/2", Grade 8)	18
59	07-061022		WASHER, FLAT (3/4" SAE)	18

TITLE: UNDERCARRIAGE GROUP, MPH 60 (2WD)

SECTION B01. | PLATE NO. 33 | PAGE 02 | REV. - | DATED 31 JAN., 1997 | PART NO. 354 9760

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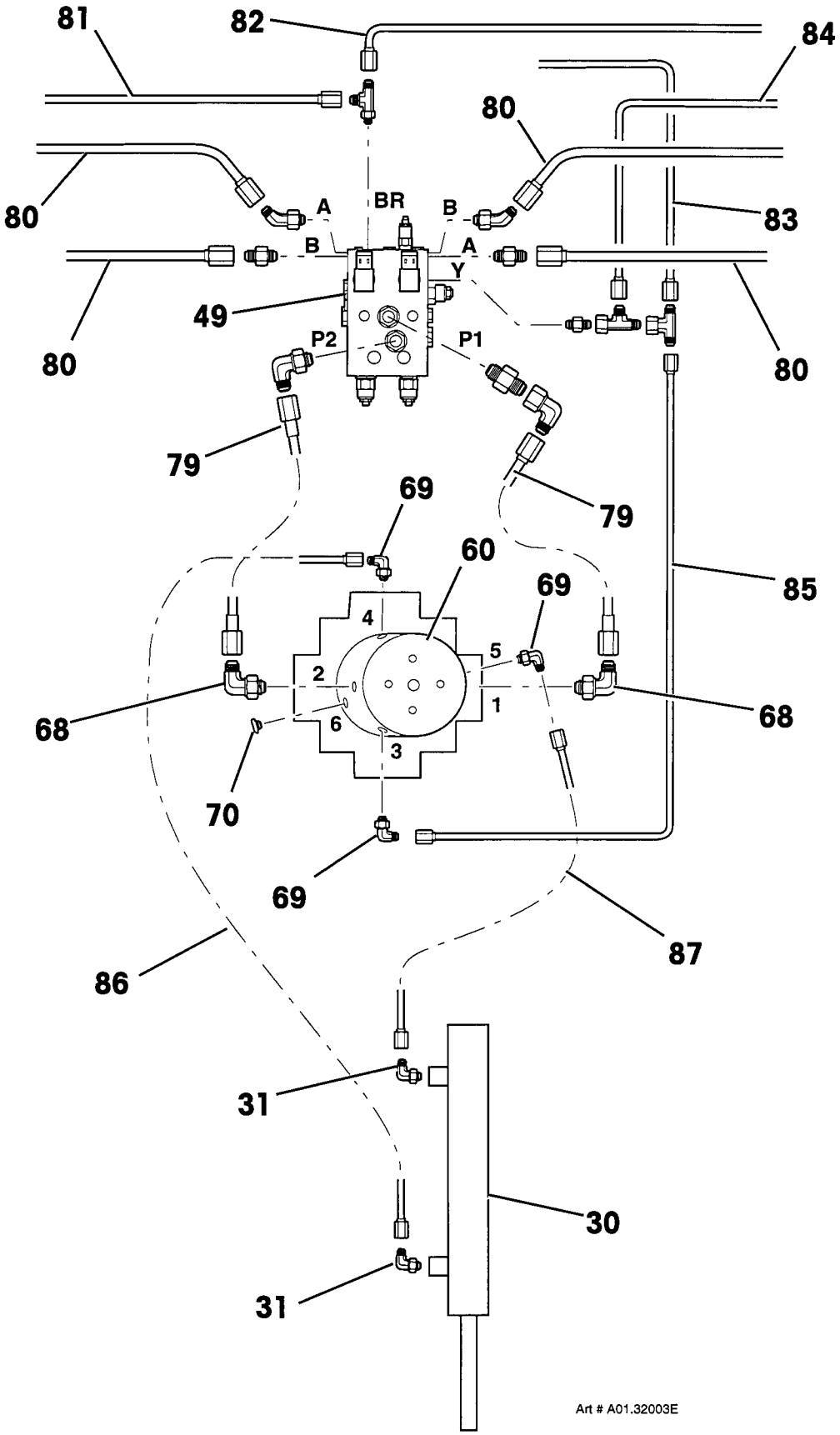
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Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE: UNDERCARRIAGE GROUP, MPH 60 (2WD)					
	PART NO. 354 9760	REV. -	DATED 31 JAN., 1997	SECTION B01.	PLATE NO. 33	PAGE 02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			UNDERCARRIAGE ASSEMBLY (continued)	
60	04-008700	D02.01	SWIVEL, HYDRAULIC	1
61	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	4
62	07-065018		WASHER, HELICAL LOCK (1/2")	4
			Ports 1 and 2, Hydraulic Swivel top section:	
63	06-041400		ADAPTER, "O"-RING TO 37° (16 F5OX-S)	2
			Ports 3, 4 and 5, top section:	
64	06-039900		ADAPTER, "O"-RING TO 37° (6-8 F5OX-S)	3
			Port 6, top section:	
65	06-095100		PLUG, HEX SOCKET "O"-RING (8 HP5ON-S)	1
			Center port, top section:	
66	06-071400		REDUCER, PIPE THREAD (3/4 x 1/2 PTR-S)	1
67	06-001000		CONNECTOR, MALE 37° TO NPT (6-8 FTX-S)	1
			Ports 1 and 2, Hydraulic Swivel bottom section:	
68	06-045800		90° ELBOW, "O"-RING TO 37° (16 C5OX-S)	2
			Ports 3, 4 and 5, bottom section:	
69	06-044700		90° ELBOW, "O"-RING TO 37° (6-8 C5OX-S)	3
			Port 6, bottom section:	
70	06-095100		PLUG, HEX SOCKET "O"-RING (8 HP5ON-S)	1
			Center port, bottom section (for electrical swivel):	
71	11-020010		NIPPLE, PIPE THREAD (3/4 NPT x 2" long)	1
72	206 7559		ADAPTER, ELECTRICAL SWIVEL TO HYDRAULIC SWIVEL	1
73	03-037300		SWIVEL, ELECTRICAL (3 circuit, 15 Amp, 12 Volt DC)	1
74	03-041000		GRIP, CORD (Plastic, 1/2", with .38" to .44" seal)	1
75	11-007006		ROD, THREADED (1/2"-13, Grade 2. 3 ft [.914 m] piece.	
			11.25" [28.6 cm] needed in this application.)	A.R.
76	07-040018		NUT, HEX (1/2"-13, Grade 5)	1
77	07-065018		WASHER, HELICAL LOCK (1/2")	1

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TITLE: UNDERCARRIAGE GROUP, MPH 60 (2WD)

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
354 9760	-	31 JAN., 1997	B01.	33	03

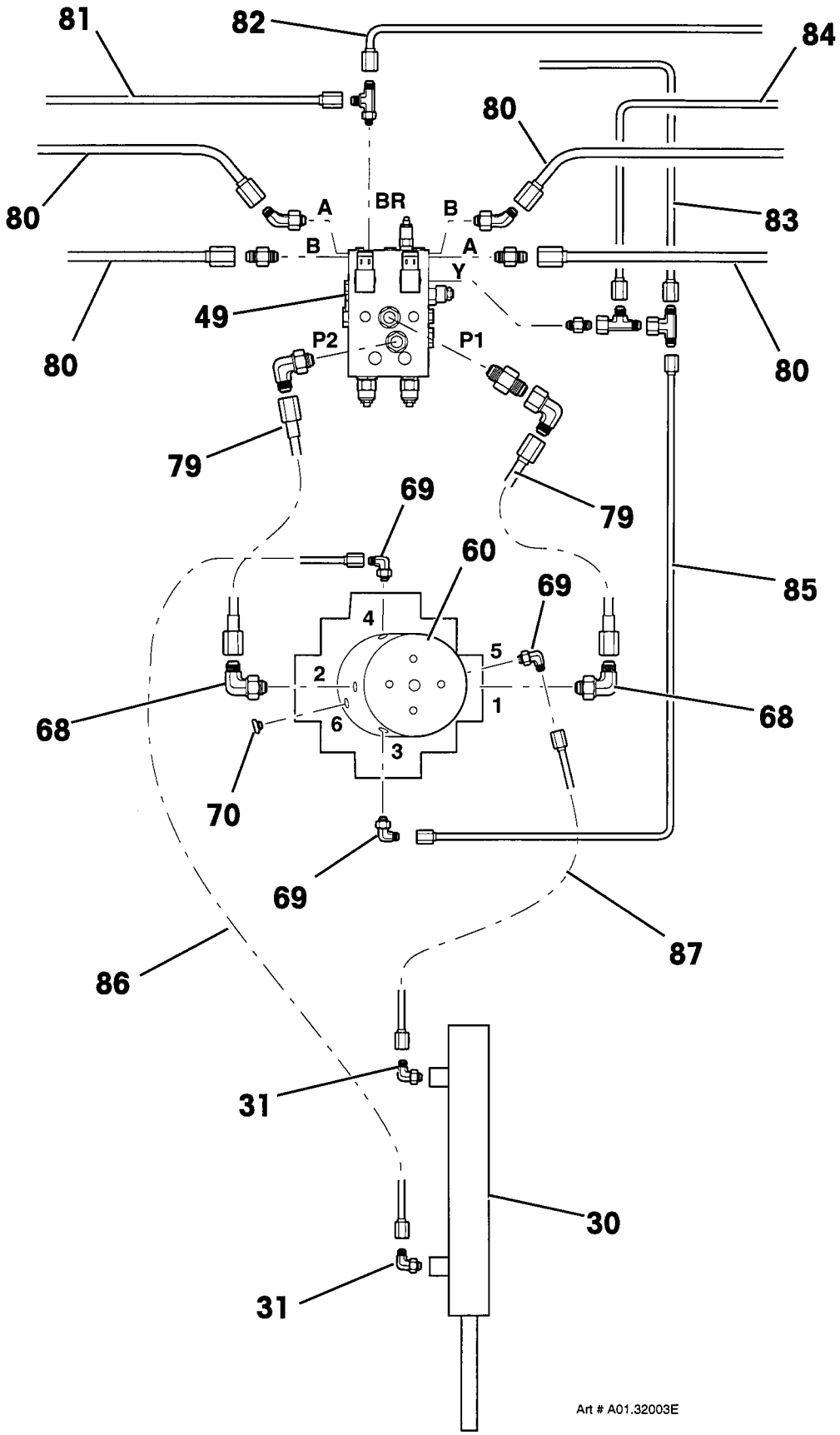
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			UNDERCARRIAGE ASSEMBLY (continued)	
78	355 0790		HOSE KIT, UNDERCARRIAGE (MPH 60, 2WD, with Tri-Flow Valve)	1
79			#16 x 29" (0.73 m) long (Drive Valve, Ports "P1 and "P2"	
			to Hydraulic Swivel, Ports "1" and "2")	2
80			#10 x 36" (0.9 m) long (Drive Valve, Ports "A" and "B" to	
			Wheel Motors)	4
81			#4 x 30" (0.75 m) long (Drive Valve Port "BR" to left	
			Wheel Motor Brake)	1
82			#4 x 39" (0.98 m) long (Drive Valve Port "BR" to right	
			Wheel Motor Brake)	1
83			#6 x 45" (1.12 m) long (Drive Valve Port "Y" to left Wheel	
			Motor Drain)	1
84			#6 x 35" (0.88 m) long (Drive Valve Port "Y" to right Wheel	
			Motor Drain)	1
85			#6 x 42" (1.05 m) long (Drive Valve Port "Y" to	
			Hydraulic Swivel, Port "3")	1
86			#4 x 50" (1.25 m) long (Steer Cylinder, Rod End to	
			Hydraulic Swivel, Port "4")	1
87			#4 x 34" (0.85 m) long (Steer Cylinder, Base End to	
			Hydraulic Swivel, Port "5")	1
88	208 9148		CLAMP, DRIVE HOSE	2
89	07-003031		CAP SCREW, HEX HEAD (5/16"-18 x 2-1/2", Grade 5)	4
90	07-050015		NUT, HEX STOP (5/16"-18, Grade 5)	4
91	07-062015		WASHER, FLAT (5/16")	8
92	10-012900		DECAL, "FORWARD" WITH ARROW	2
93	05-010017		HOSE ASSEMBLY	1
94	08-054000		FITTING, GREASE (1/4", Straight)	1
95	07-058123		NUT, FLANGED (Self locking) (3/4"-16, Grade 5)	40
			The following items **are not** included with the Undercarriage Group:	
96	07-00 4152		CAP SCREW, HEX HEAD (3/4"-16 x 2-3/4", Grade 8)	23
97	07-061022		WASHER, FLAT (3/4" SAE)	23
98	03-472100		STRAP, GROUNDING (option)	1
99	07-058400		NUT, LUG (1/2"-13, Grade 8) (for grounding strap)	1

TITLE: UNDERCARRIAGE GROUP, MPH 60 (2WD)

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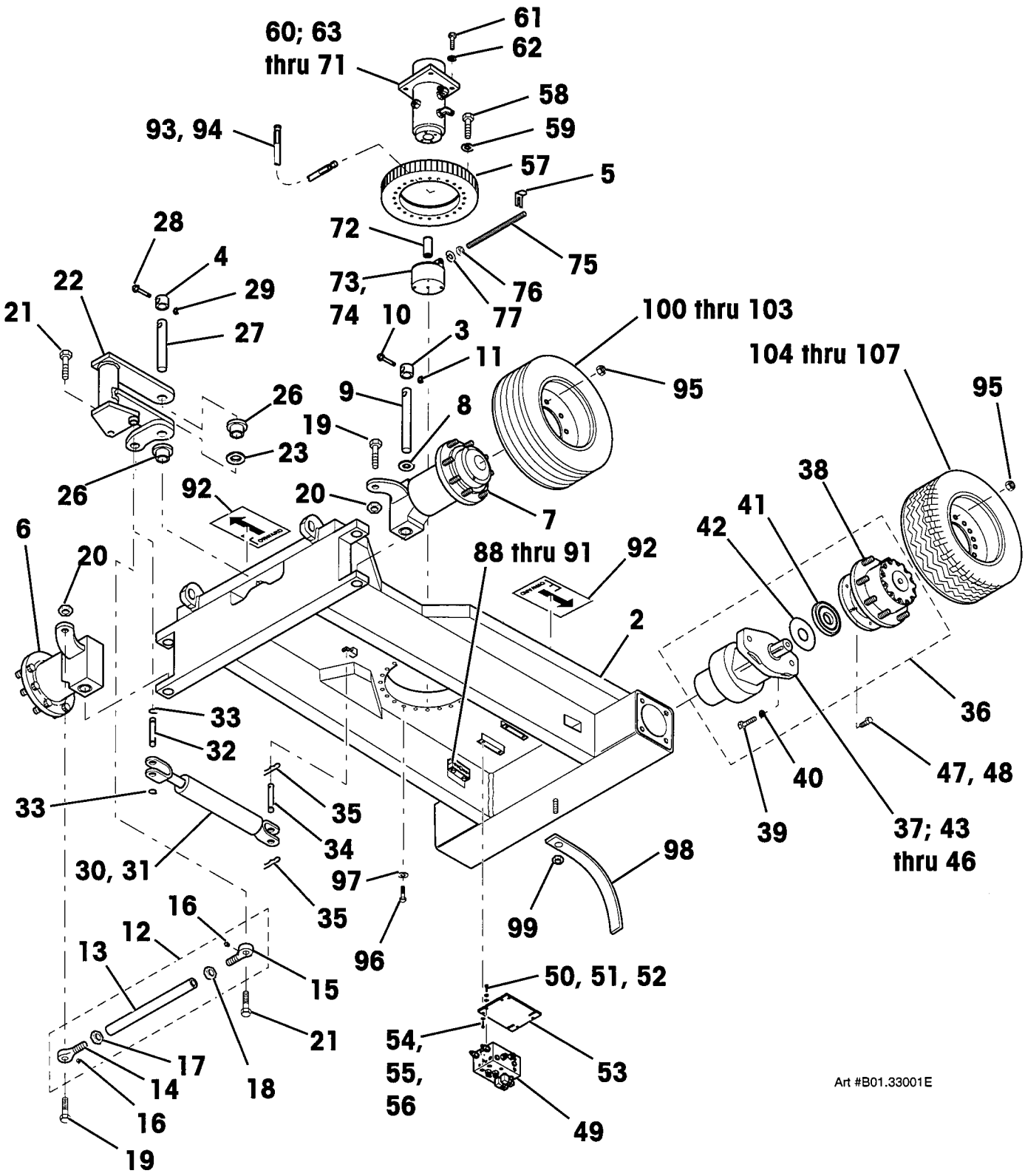
TITLE: UNDERCARRIAGE GROUP, MPH 60 (2WD)

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
354 9760	-	31 JAN., 1997	B01.	33	04

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: Tires should be replaced in axle pairs. When replacing tires, or tire and wheel assemblies, it is important that left and right sides of a single axle match in brand and type. Refer to tire descriptions below:	
100	351 5630		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
101	02-024800		TIRE (15-19.5 **"Jumbo Jet Cargo"** Tubeless)	1
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
103	02-047100		INNER TUBE	1
			Or . . .	
100	351 5720		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2
101	02-024800		TIRE (15-19.5 **"Jumbo Jet Cargo"** Tubeless)	1
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
			Or . . .	
100	354 0830		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
101	02-047800		TIRE (15-19.5 NHS **"Super Agri Loader"** Tubeless, 14 Ply rating)	1
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
103	02-047100		INNER TUBE	1
			Or . . .	
100	354 0840		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2
101	02-047800		TIRE (15-19.5 NHS **"Super Agri Loader"** Tubeless, 14 Ply rating)	1
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
			Or . . .	
100	355 2760		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
101	02-050100		TIRE (15-19.5 **"Wearmaster OTR"** Tubeless, 14 Ply rating)	1
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
103	02-047100		INNER TUBE	1
			Or . . .	
100	355 2770		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2
101	02-050100		TIRE (15-19.5 **"Wearmaster OTR"** Tubeless, 14 Ply rating)	1
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
			For drive tires, see next page.	

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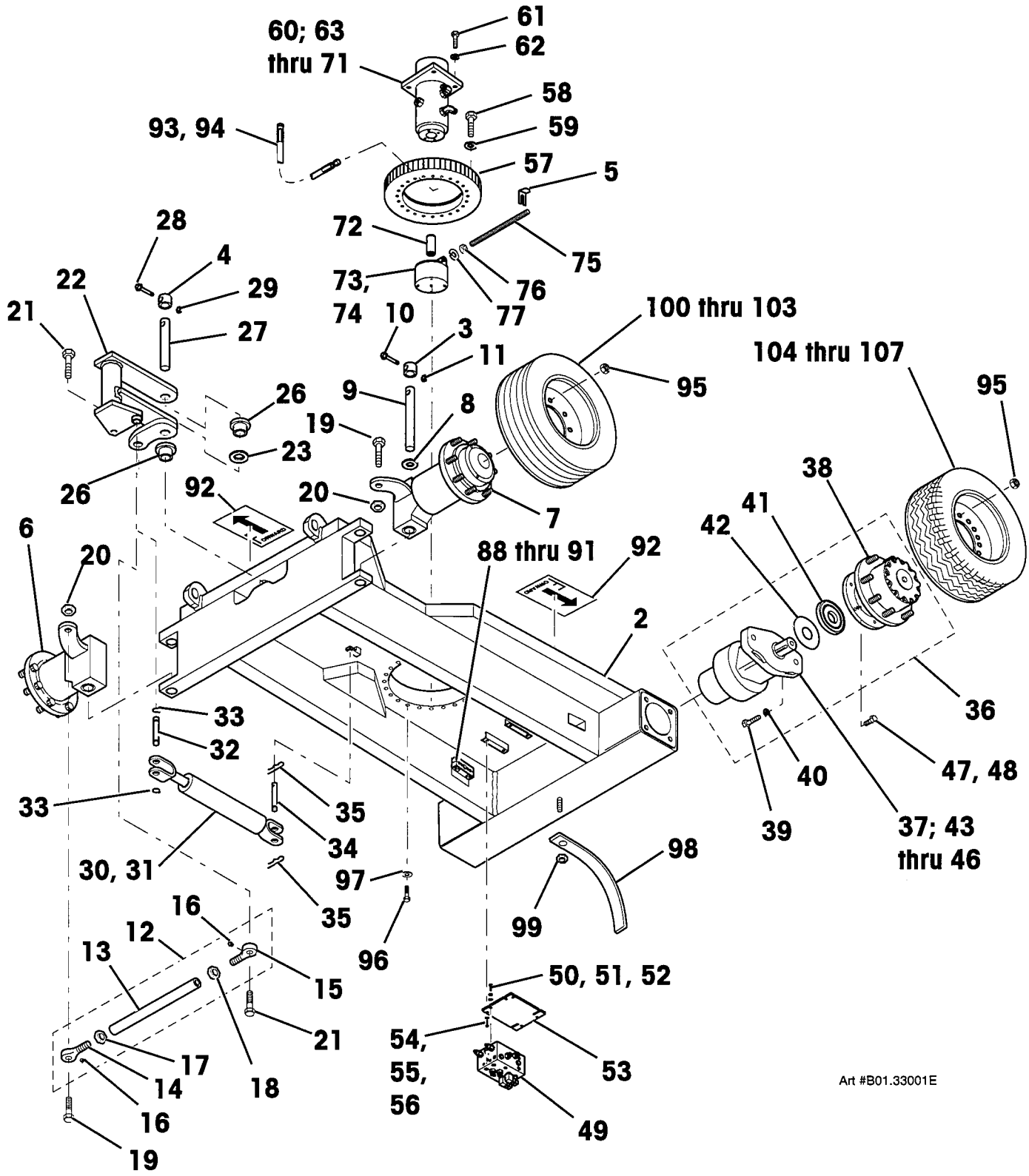


Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE UNDERCARRIAGE GROUP, MPH 60 (2WD)					
	PART NO. 354 9760	REV. -	DATED 31 JAN., 1997	SECTION B01.	PLATE NO. 33	PAGE 05

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			For steer tires, see previous page. **Note:** Tires should be replaced in axle pairs. When replacing tires, or tire and wheel assemblies, it is important that left and right sides of a single axle match in brand and type. Refer to tire descriptions below:	
104	351 5620		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
105	02-024700		TIRE (15-19.5 **"Jumbo Super All Grip"** Tubeless)	1
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
107	02-047100		INNER TUBE	1
			Or . . .	
104	351 5710		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
105	02-024700		TIRE (15-19.5 **"Jumbo Super All Grip"** Tubeless)	1
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
			Or . . .	
104	354 0830		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
105	02-047800		TIRE (15-19.5 NHS **"Super Agri Loader"** Tubeless, 14 Ply rating)	1
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
107	02-047100		INNER TUBE	1
			Or . . .	
104	354 0840		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
105	02-047800		TIRE (15-19.5 NHS **"Super Agri Loader"** Tubeless, 14 Ply rating)	1
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
			Or . . .	
104	355 2760		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
105	02-050100		TIRE (15-19.5 **"Wearmaster OTR"** Tubeless, 14 Ply rating)	1
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
107	02-047100		INNER TUBE	1
			Or . . .	
104	355 2770		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
105	02-050100		TIRE (15-19.5 **"Wearmaster OTR"** Tubeless, 14 Ply rating)	1
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1

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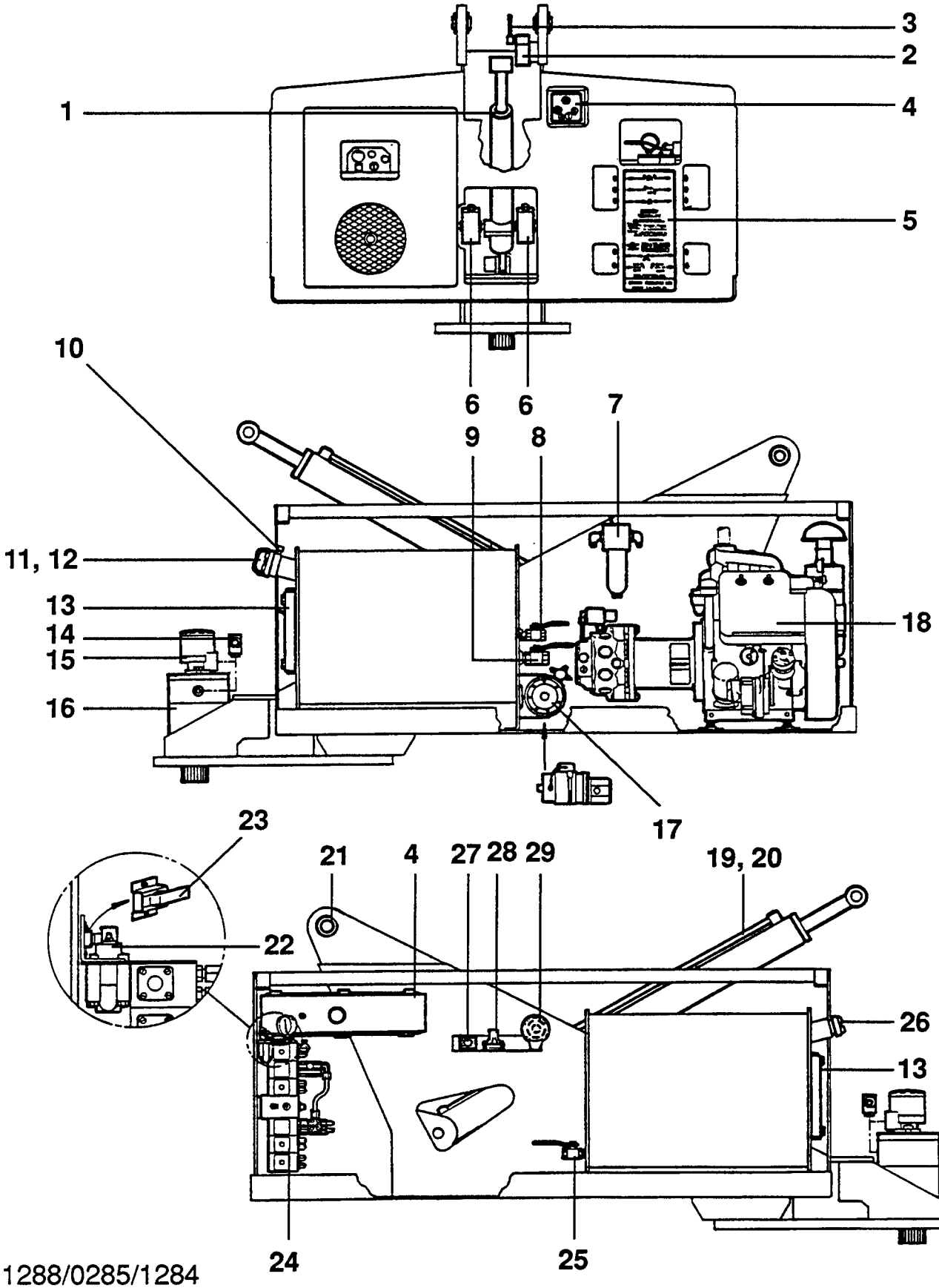


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	PART NO. 354 9760	REV. -	DATED 31 JAN., 1997	SECTION B01.	PLATE NO. 33	PAGE 06

PARTS LIST

ITEM	PART NUMBER	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	D10	MASTER LEVEL CYLINDER	1
2	03-021400		LIMIT SWITCH	1
3	03-026200		LEVER ARM, LIMIT SWITCH	1
4	SEE INDEX	C3	GROUND CONTROL BOX	1
5	10-019400		DECAL, GROUND CONTROLS (500 LB. CAPACITY)	1
6	01-008900		LEVELING RELIEF VALVE	2
7	SEE INDEX	D11	HIGH PRESSURE FILTER	1
8	01-020600		SHUTOFF VALVE, 3/4 INCH	1
9	01-002700		SHUTOFF VALVE, 1-1/4 INCHES	1
10	01-008200		VENT PLUG W/FILTER	1
11	10-002100		FILLER CAP, HYDRAULIC OIL	1
12	10-001000		STRAINER	1
13	SEE INDEX	D12	SIGHT GAUGE	2
14	01-001400		SHUTTLE VALVE	1
15	SEE INDEX	D6	SWING MOTOR	1
16	SEE INDEX	F2	SWING REDUCER	
17	SEE INDEX	D7	EMERGENCY PUMP	1
18	SEE INDEX	C4	ENGINE ASSEMBLY	1
19	SEE INDEX	D9	LIFT CYLINDER	1
20	04-021402		HOLDING VALVE, LIFT CYLINDER	1
21	08-013300		BEARING, BOOM PIVOT	1
22	SEE INDEX	D5	GROUND HPC VALVE	1
23	03-416800		LIMIT SWITCH	1
24	SEE INDEX	C2	VALVE BANK ASSEMBLY	1
25	01-032800		SHUTOFF VALVE, 1/4 INCH	1
26	10-001900		FILLER CAP, FUEL	1
27	03-038300		MOVEMENT ALARM	1
28	03-038100		TILT ALARM	1
29	03-036100		HORN	1

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	CAA-207263-6



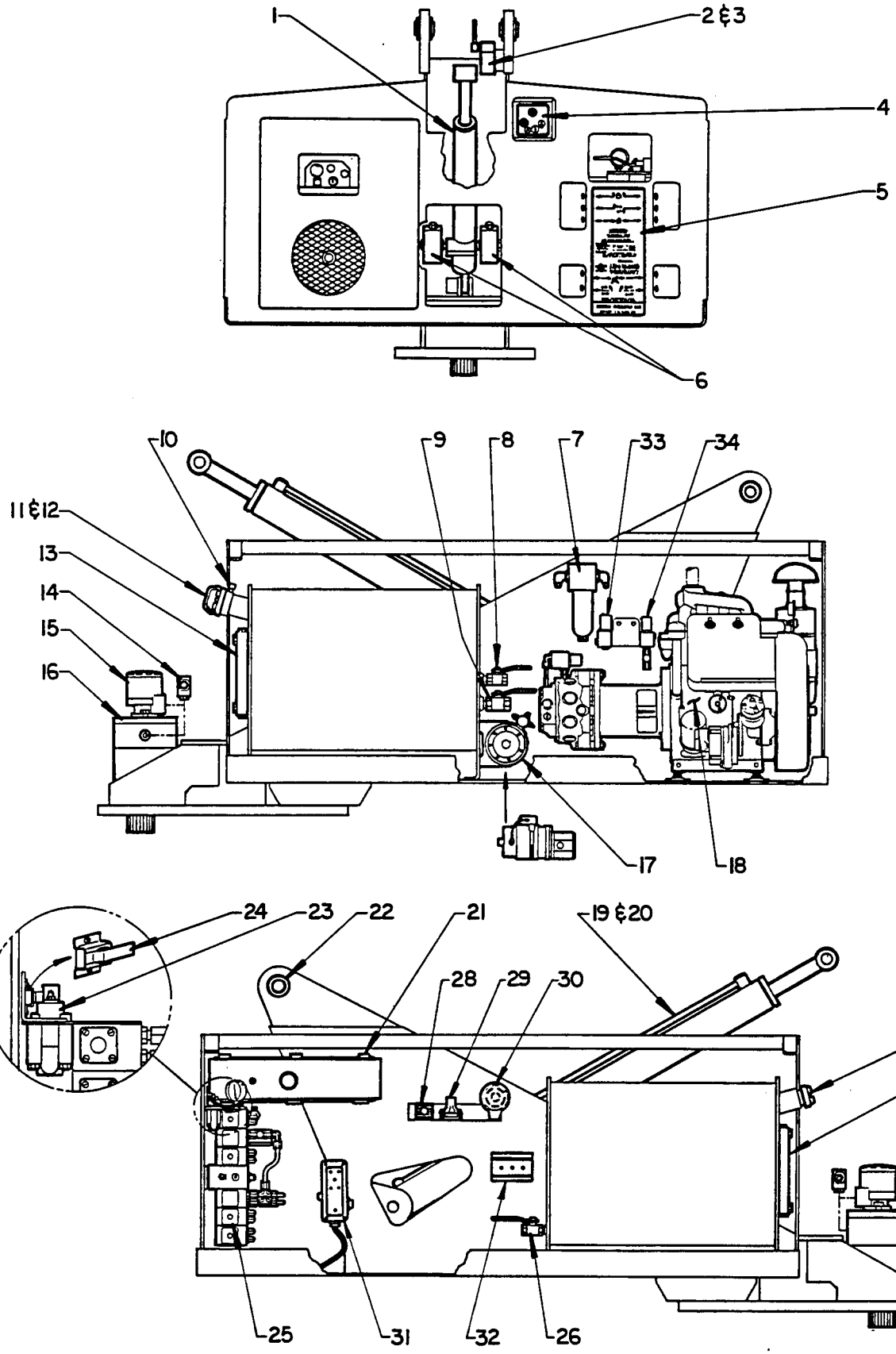
1288/0285/1284

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	CAA-207263-6

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	D10	MASTER LEVEL CYLINDER	1
2	03-021400		LIMIT SWITCH	1
3	03-026200		LEVER ARM, LIMIT SWITCH	1
4				
5	10-019400		DECAL, GROUND CONTROLS (500 LB. CAP.)	1
6	01-008900		LEVELING RELIEF VALVE	2
7	SEE INDEX	D11	HIGH PRESSURE FILTER	1
8	01-020600		SHUTOFF VALVE, 3/4"	1
9	01-002700		SHUTOFF VALVE, 1-1/4"	1
10	01-008200		VENT PLUG W/FILTER	1
11	10-002100		FILLER CAP, HYDRAULIC OIL	1
12	10-001000		STRAINER	1
13	SEE INDEX	D12	SIGHT GAUGE	2
14	01-001400		SHUTTLE VALVE	1
15	SEE INDEX	D6	SWING MOTOR	1
16	SEE INDEX	F2	SWING REDUCER	1
17	SEE INDEX	D7	EMERGENCY PUMP	1
18	SEE INDEX	C4	ENGINE ASSEMBLY	1
19	SEE INDEX	D9	LIFT CYLINDER	1
20	04-021402		HOLDING VALVE, LIFT CYLINDER	1
21	SEE INDEX	C3	GROUND CONTROL BOX	1
22	08-013300		BEARING, BOOM PIVOT	1
23	SEE INDEX	D5	GROUND HPC VALVE	1
24	03-026700		LIMIT SWITCH	1
25	SEE INDEX	C2	VALVE BANK ASSEMBLY	1
26	01-032800		SHUTOFF VALVE, 1/4"	1
27	10-001900		FILLER CAP, FUEL	1
28	03-038300		MOVEMENT ALARM	1
29	03-038100		TILT ALARM	1
30	03-036100		HORN	1
31	SEE INDEX	C6	REMOTE CONTROL (PENDANT)	1
32	03-067600		BATTERY SPLITTER (ISOLATOR)	1
33	01-037100		SOLENOID VALVE, LOW SPEED	1
34	01-034400		SOLENOID VALVE, HI SPEED	1

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	



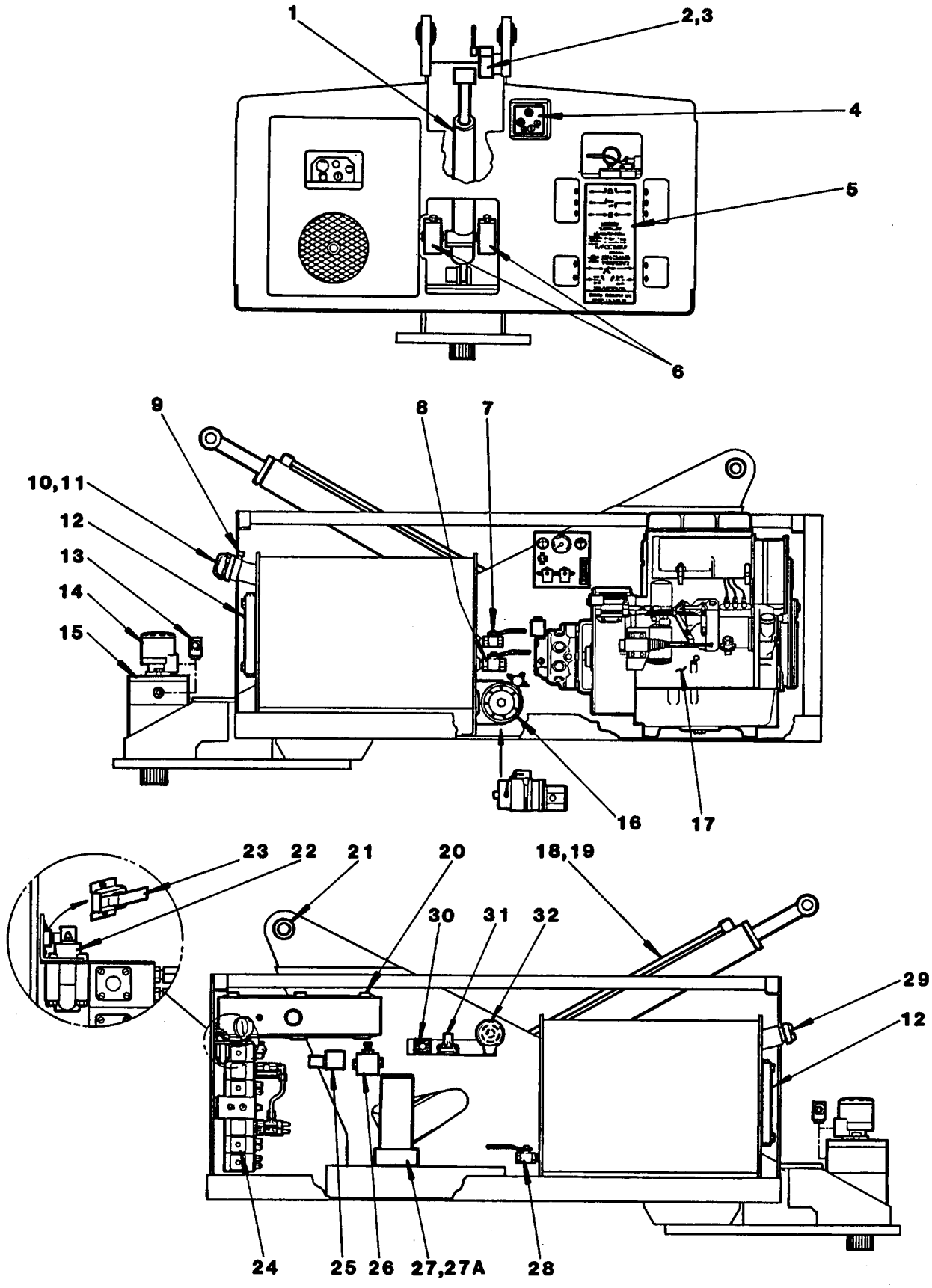
0886/0686

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	D10	MASTER LEVEL CYLINDER	1
2	03-021400		LIMIT SWITCH	1
3	03-026200		LEVER ARM, LIMIT SWITCH	1
4	SEE INDEX	C3	GROUND CONTROL BOX	1
5	10-019400		DECAL, GROUND CONTROLS (500 LB. CAPAC.)	1
6	01-018900		LEVELING RELIEF VALVE	2
7	01-020600		SHUTOFF VALVE, 3/4"	1
8	01-002700		SHUTOFF VALVE, 1-1/4"	1
9	01-008200		VENT PLUG W/FILTER	1
10	10-002100		FILLER CAP, HYDRAULIC OIL	1
11	10-001000		STRAINER	1
12	SEE INDEX	D12	SIGHT GAUGE	1
13	01-013800		SHUTTLE VALVE, #6 SAE PORTS	1
14	SEE INDEX	D6	SWING MOTOR	1
15	SEE INDEX	F2	SWING REDUCER	1
16	SEE INDEX	D7	EMERGENCY PUMP	1
17	SEE INDEX	C4	ENGINE ASSEMBLY	1
18	SEE INDEX	D9	LIFT CYLINDER	1
19	01-023900		HOLDING VALVE, LIFT CYLINDER	1
20	SEE INDEX	C3	GROUND CONTROL BOX	1
21	08-013300		BEARING, BOOM PIVOT	2
22	SEE INDEX	D5	GROUND HPC VALVE	1
23	03-026700		LIMIT SWITCH	1
24	DEE INDEX	C2	VALVE BANK ASSEMBLY	1
25	01-037100		SOLENOID VALVE, HI SPEED DRIVE	1
26	01-012800		PRESSURE REDUCING VALVE	1
27	01-014000		HIGH PRESSURE FILTER	1
27A	01-014001		FILTER ELEMENT, HIGH PRESSURE FILTER	1
28	01-032800		SHUTOFF VALVE, 1/4"	1
29	10-001900		FILLER CAP, FUEL	1
30	03-038300		MOVEMENT ALARM	1
31	03-038100		TILT ALARM	1
32	03-036100		HORN, TILT ALARM	1

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	



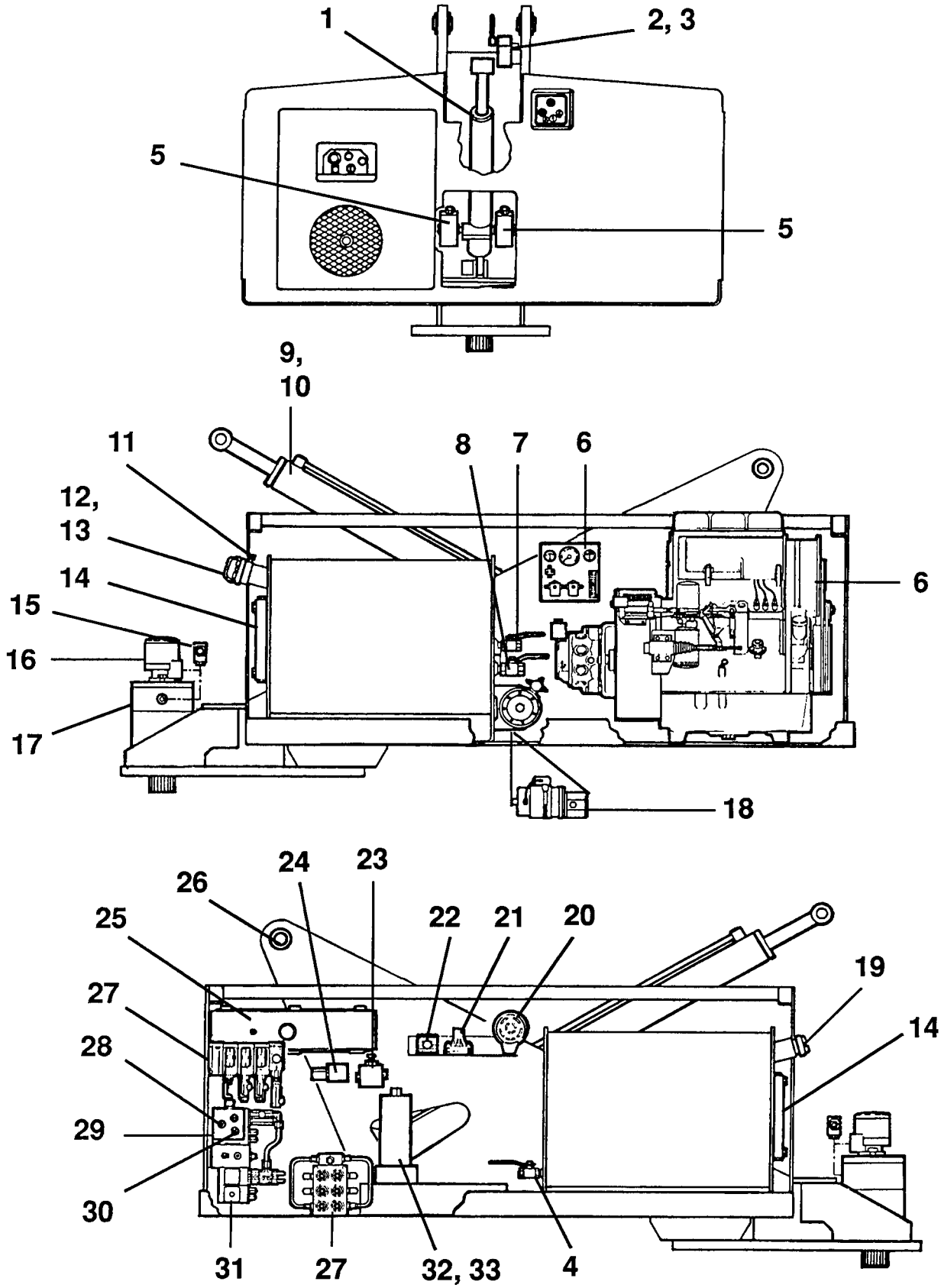
0886/0986

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	See Index	D10	MASTER LEVELING CYLINDER	1
2	03-021400		LIMIT SWITCH	1
3	03-026200		LEVER ARM, LIMIT SWITCH	1
4	01-032800		SHUTOFF VALVE, 1/4 INCH	1
5	01-008900		RELIEF VALVE, LEVELING	2
6	See Index	C4	ENGINE ASSEMBLY	1
7	01-020600		SHUTOFF VALVE, 3/4 INCH	1
8	01-002100		SHUTOFF VALVE, 1-1/4 INCHES	1
9	See Index	D9	LIFT CYLINDER	1
10	04-021402		HOLDING VALVE, LIFT CYLINDER	1
11	01-008200		VENT PLUG W/FILTER	1
12	01-002100		FILLER CAP, HYDRAULIC OIL	1
13	10-001000		STRAINER	1
14	See Inedx	D12	SIGHT GAUGE	2
15	01-013800		SHUTTLE VALVE	1
16	See Index	D6	SWING MOTOR	1
17	See Index	F2	SWING REDUCER	1
18	See Index	D7	EMERGENCY PUMP	1
19	10-001900		FILLER CAP, FUEL	1
20	03-038100		HORN	1
21	03-038100		TILT ALARM	1
22	03-038300		MOVEMENT ALARM	1
23	01-012800		PRESSURE REDUCING VALVE	1
24	01-037100		SOLENOID VALVE, 2-WAY (2 SPEED DRIVE)	1
25	See Index	C3	GROUND CONTROL BOX	1
26	08-013300		BEARING, BOOM PIVOT	2
27	See Index	C2	VALVE BANK ASS'Y. (LIFT, SWING, TELESCOPE)	1
28	03-020600		TOGGLE SWITCH (PUMP - AUX., MAIN)	1
29	03-419000		SWITCH BOX (INCL. 03-419100 COVER)	1
30	03-020500		TOGGLE SWITCH (DRIVE, STEER)	2
31	See Index	C2	VALVE BANK ASSEMBLY (DRIVE, STEER)	1
32	01-014000	D11.3	HIGH PRESSURE FILTER	1
33	01-014001		FILTER ELEMENT, HIGH PRESS. FILTER	1

TITLE	SUPERSTRUCTURE ASSEMBLY (FULL HYDRAULIC)		
PLATE NO. B02.21	**SIMON AERIALS INC.**	REV. 09/24/91	PART NO.

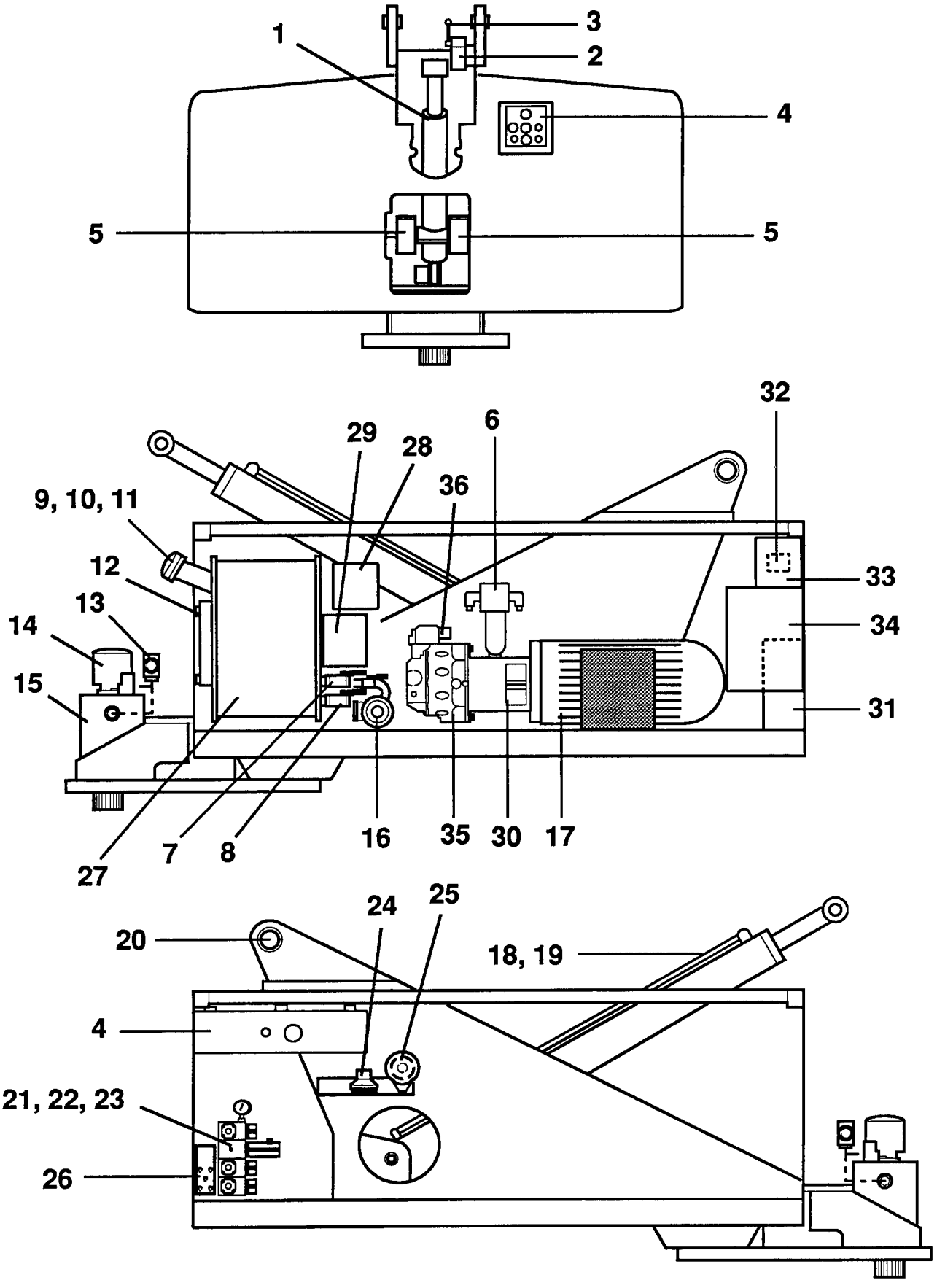


TITLE	SUPERSTRUCTURE ASSEMBLY (FULL HYDRAULIC)		
SIMON AERIALS INC.	REV. 09/24/91	PART NO.	PLATE NO. B02.21

PARTS LIST

ITEM	PART NUMBER	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	D10	MASTER LEVEL CYLINDER	1
2	03-021400		LIMIT SWITCH	1
3	03-026200		LEVER ARM, LIMIT SWITCH	1
4	SEE INDEX	C3	GROUND CONTROL BOX	1
5	01-008900		LEVELING RELIEF VALVE	2
6	SEE INDEX	D11	HIGH PRESSURE FILTER	1
7	01-020600		SHUTOFF VALVE, 3/4 INCH	1
8	01-002700		SHUTOFF VALVE, 1-1/4 INCHES	1
9	10-002100		FILLER CAP, HYDRAULIC OIL	1
10	10-001000		STRAINER	1
11	01-008200		VENT PLUG W/FILTER	1
12	SEE INDEX	D12	SIGHT GAUGE	1
13	01-001400		SHUTTLE VALVE	1
14	SEE INDEX	D6	SWING MOTOR	1
15	SEE INDEX	F2	SWING REDUCER	1
16	SEE INDEX	D7	EMERGENCY PUMP	1
17			MOTOR	1
18	SEE INDEX	D9	LIFT CYLINDER	1
19	04-021402		HOLDING VALVE, LIFT CYLINDER	1
20	08-013300		BEARING, BOOM PIVOT	1
21	SEE INDEX	D5	GROUND HPC VALVE	1
22	03-416800		LIMIT SWITCH	1
23	SEE INDEX	C2	VALVE BANK ASSEMBLY	1
24	03-038100		TILT ALARM	1
25	03-036100		HORN	1
26	SEE INDEX	C6	PENDANT CONTROLLER	1
27			HYDRAULIC TANK	1
28	03-469700		BATTERY CHARGER	1
29			BATTERY	1
30	02-029700		COUPLING	1
31	03-469600		TRANSFORMER	1
32			VOLTAGE CONVERTER	1

DESCRIPTION	PART NO.
MPH60 PEDESTAL SUPERSTUCTURE (SHEET 1 OF 2)	

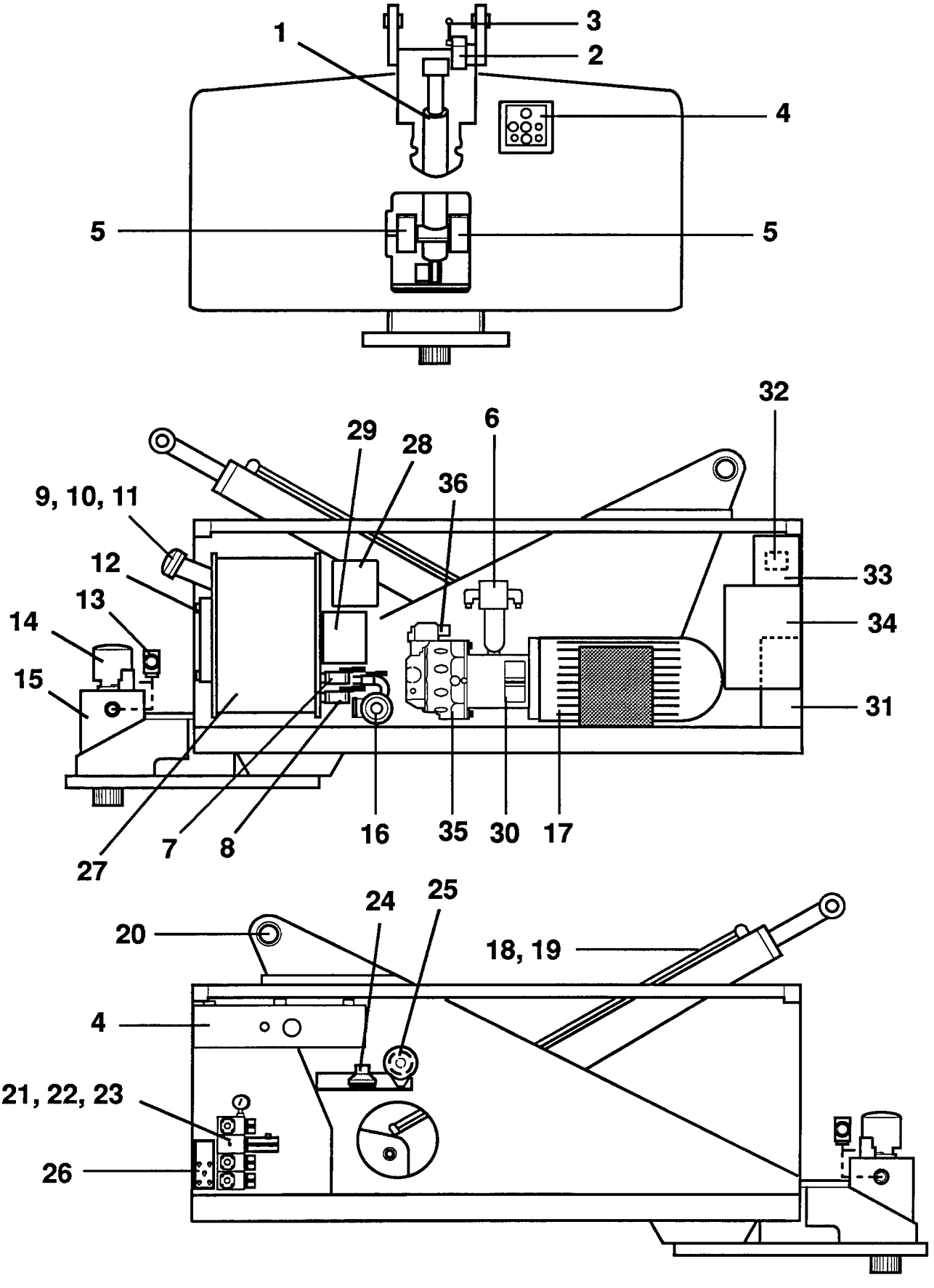


DESCRIPTION	PART NO.
MPH60 PEDESTAL SUPERSTUCTURE (SHEET 1 OF 2)	

PARTS LIST

ITEM	PART NUMBER	SEC.	DESCRIPTION	QTY.
33	03-435000		JUNCTION BOX	1
	03-469800		FUSE HOLDER	3
	03-469900		FUSE, 3 AMP	3
	03-470000		DISTRIBUTION BLOCK, 3 POLE	1
	03-051500		RELAY	2
	03-051600		RELAY BASE	2
34	03-469400		MOTOR STARTER	1
	03-469500		HEATERS, MOTOR STARTER	3
35	SEE INDEX	D8	HYDRAULIC PUMP	1
36	01-013700		SOLENOID VALVE	1

DESCRIPTION	PART NO.
MPH60 PEDESTAL SUPERSTUCTURE (SHEET 2 OF 2)	



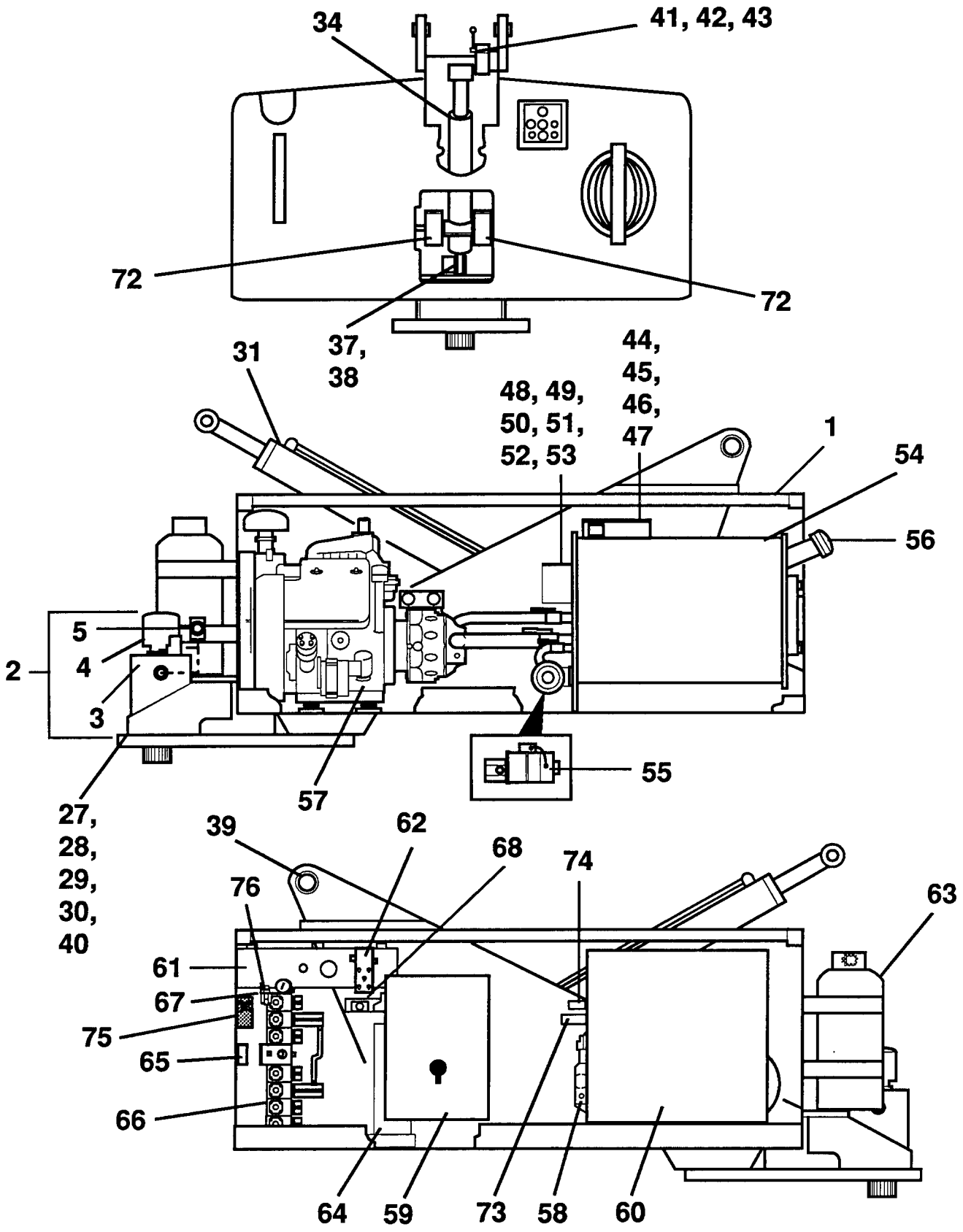
DESCRIPTION	PART NO.
MPH60 PEDESTAL SUPERSTUCTURE (SHEET 2 OF 2)	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2177240		SUPERSTRUCTURE WELDMENT	1
2	3501593		SPEED REDUCER (Swing Drive) ASSEMBLY	1
3	02-006100	F02.04	REDUCER, SWING (Planetary Gear Type)	1
4	01-005700	D06.08	MOTOR, HYDRAULIC SWING (16.4 cu. in.)	1
5	01-013800		VALVE, SHUTTLE	1
6	07-062018		WASHER, FLAT (1/2")	2
7	07-065018		WASHER, HELICAL LOCK (1/2")	2
8	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade %)	2
9	06-039800		CONNECTOR, STRAIGHT THREAD (6 F50X)	2
10	06-044500		ELBOW, STRAIGHT THREAD (6-4 C50X)	1
11	06-044600		ELBOW, STRAIGHT THREAD (6 C50X)	1
12	06-048500		TEE (6 R50X)	2
13	06-051500		ELBOW, SWIVEL (6 C6X)	1
14	06-090800		REDUCER/ EXPANDER (10-6 F50G5)	2
15	3508820		TUBE ASSEMBLY	1
16	06-057500		NUT, TUBE (6 BTX)	2
17	06-059000		SLEEVE (6TX)	2
18			TUBE	1
19	3508835		TUBE ASSEMBLY	1
20	06-057500		NUT, TUBE (6 BTX)	2
21	06-059000		SLEEVE (6TX)	2
22			TUBE	1
23	3508842		TUBE ASSEMBLY	1
24	06-057500		NUT, TUBE (6 BTX)	2
25	06-059000		SLEEVE (6TX)	2
26			TUBE	1
27	2143480		GUARD, SWING PINION GEAR	1
28	2059387		RING, ECCENTRIC	1
29	2070878		LOCK, ECCENTRIC	1
30	2083030		SPACER, SPEED REDUCER SUPPORT	4
31	04-009800	D09.11	CYLINDER, LIFT	1
32	2069166		PIN, LIFT CYLINDER (Base End)	1
33	08-041000		RING, RETAINING (1-3/4")	4
34	04-029700		CYLINDER, MASTER	1
35	08-050000		FITTING, GREASE (1/8", Straight)	1
36	08-051300		FITTING, GREASE (1/8", 90°)	1
37	2068884		PIN, MASTER CYLINDER (Base End)	1
38	08-040700		RING, RETAINING (1-1/4")	2
39	08-013300		BUSHING, SELF ALIGNING (Boom Pivot)	2
40	2109250		BRACKET, RETAINER, HYDRAULIC SWIVEL	1
41	03-021400		SWITCH, LIMIT	1
42	03-026200		LEVER, LIMIT SWITCH	1

TITLE SUPERSTRUCTURE ASSEMBLY, MPH60 PROPANE/AC (PLATE 1 OF 2)

PLATE NO.			PART NO.
B02.36	**SIMON AERIALS INC.**	REV. 03/29/91	



TITLE SUPERSTRUCTURE ASSEMBLY, MPH60 PROPANE/AC (PLATE 1 OF 2)

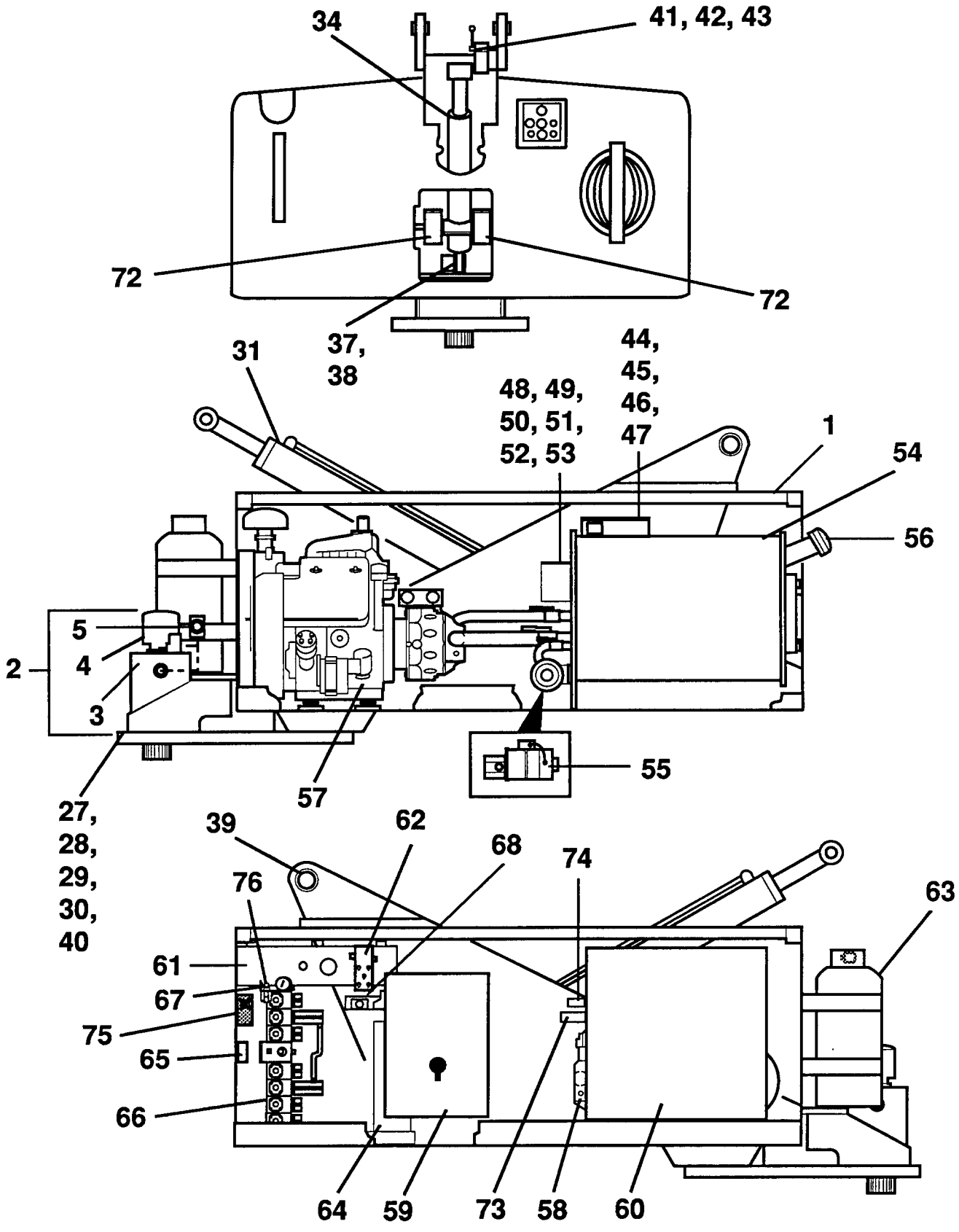
SIMON AERIALS INC. REV. 03/29/91	PART NO.	PLATE NO. B02.36

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
43	2010906		ARM, SWITCH WIRE	1
44	2181890		TRAY, BATTERY CHARGER	1
45	03-477900		CHARGER, BATTERY	1
46	2181900		FRAME, MOUNTING	1
47	07-090111		J-BOLT, (10")	2
48	03-010001		BATTERY, 12 Volt (95 amp)	1
49			CABLE, BATTERY (Black, long)	1
50			CABLE, BATTERY (Red, long)	1
51	03-064300		HOLD DOWN, BATTERY	1
52	07-090111		J-BOLT (10")	2
53	10-112900		PROTECTOR, BATTERY (Neoprene, 7" x 11" x 1/8")	1
54		C10.--	TANK ASSEMBLY, HYDRAULIC	1
55	01-027200	D07.04	PUMP, EMERGENCY	1
56	10-002100		CAP, FILLER (4 PSI)	1
57		C04.--	ENGINE ASSEMBLY, FORD 2.3L, PROPANE	1
58		C05.--	MOTOR ASSEMBLY, ELECTRIC, AC	1
59	2182080	C03.27	CONTROL ASSEMBLY, AC	1
60	2182040	C03.29	CONTROL ASSEMBLY, INTRINSICALLY SAFE	1
61		C03.--	BOX ASSEMBLY, GROUND CONTROL	1
62		C06.--	PENDANT ASSEMBLY, REMOTE CONTROL	1
63			TANK ASSEMBLY, PROPANE	1
64	01-014000	D11.03	FILTER, HYDRAULIC (High Pressure)	1
65			MANIFOLD ASSEMBLY (Drive/ Steer)	1
66		C02.--	VALVE ASSEMBLY, GROUND CONTROL	1
67	03-026700		SWITCH, LIMIT	1
68	3505326		ALARM ASSEMBLY	1
69	03-038100		SENSOR, LEVEL (2 Second Delay)	1
70	03-464600		HORN, LEVEL WARNING (102 db, 12/36 volt)	1
71	03-472000		ALARM, MOVEMENT	1
72	01-018900		VALVE, LEVELING RELIEF	2
73	01-012800		VALVE, PRESSURE REDUCING	1
74	01-037100		VALVE, THREE WAY (includes solenoid)	1
75	01-010900		VALVE, SELECTOR (Drive/ Tow)	1
76		D05.--	VALVE, HPC GROUND	1

TITLE SUPERSTRUCTURE ASSEMBLY, MPH60 PROPANE/AC (PLATE 2 OF 2)

PLATE NO.	B02.36	SIMON AERIALS INC.	REV. 03/29/91	PART NO.



TITLE SUPERSTRUCTURE ASSEMBLY, MPH60 PROPANE/AC (PLATE 2 OF 2)

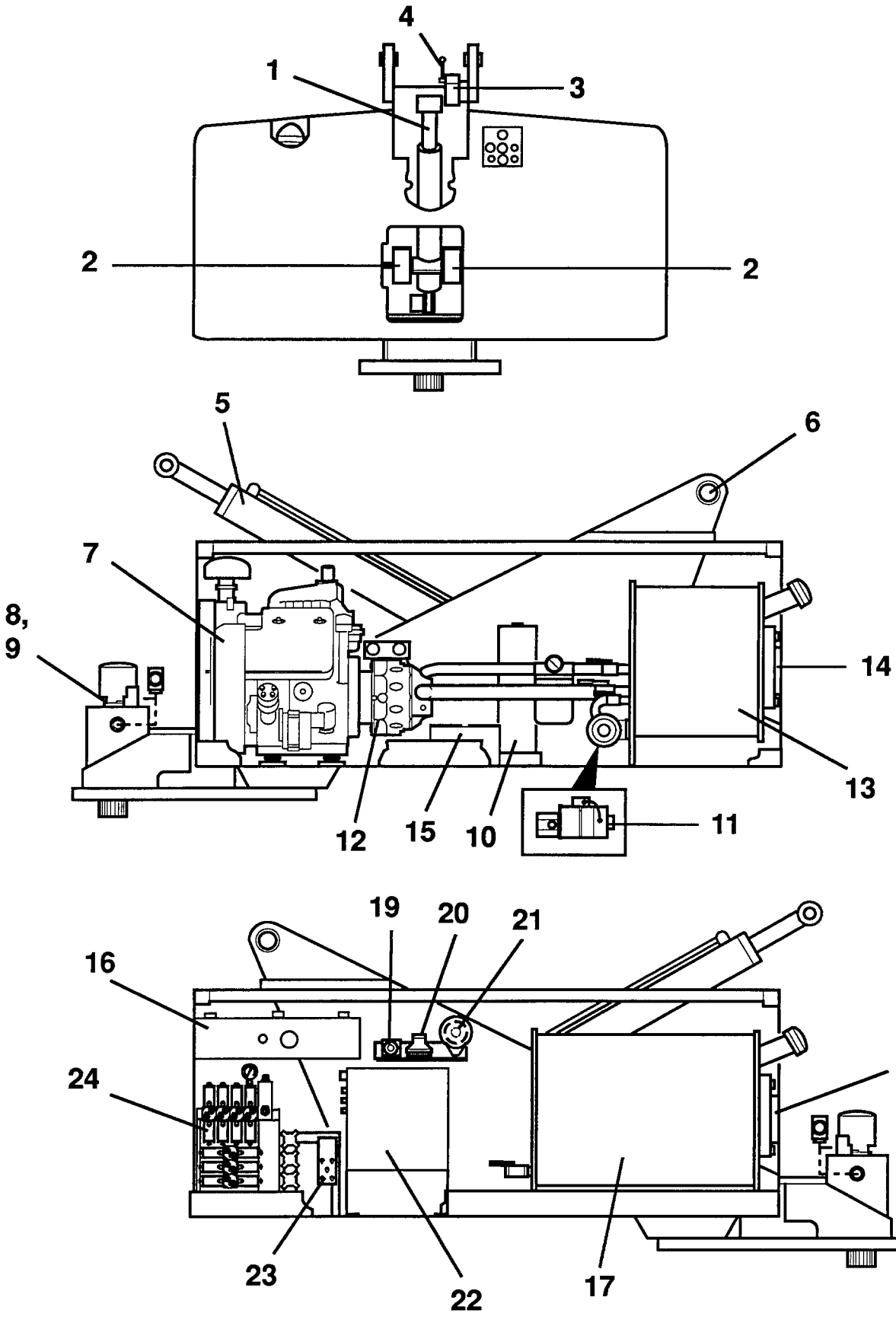
SIMON AERIALS INC. REV. 03/29/91	PART NO.	PLATE NO. B02.36

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, LEVER, LIMIT SWITCH	1
5	See Index	D09	CYLINDER, LIFT	1
6	08-015200		BEARING, BOOM PIVOT	2
7	See Index	C04	ENGINE ASSEMBLY	1
8	See Index	F02	REDUCER, SWING	1
9	See Index	D06	MOTOR, SWING	1
10	See Index	D11	FILTER, HIGH PRESSURE	1
11	See Index	D07	PUMP, EMERGENCY	1
12	See Index	D08	PUMP, HYDRAULIC	1
13	See Index	C10	TANK, HYDRAULIC	1
14	See Index	D12	GAUGE, SIGHT	2
15			BATTERY	1
16	See Index	C03	BOX, GROUND CONTROL	1
17	See Index	C11	TANK, FUEL	1
18	See Index	E08	ALARM PACKAGE	
19	03-038300		ALARM, MOVEMENT	1
20	03-038100		ALARM, TILT	1
21	03-036100		HORN	1
22	See Index	C03	BOX, ELECTRICAL - DRIVE CARD	1
23	See Index	C06	PENDANT, REMOTE CONTROL	1
24	See Index	C02	VALVE, BANK ASSEMBLY	1

TITLE SUPERSTRUCTURE ASSEMBLY, ELECTRO-PROPORTIONAL, MPH 60

PLATE NO. B02.39 | **SIMON AERIALS INC.** REV. 10/03/91 | PART NO.



TITLE SUPERSTRUCTURE ASSEMBLY, ELECTRO-PROPORTIONAL, MPH 60

SIMON AERIALS INC.	REV. 10/03/91	PART NO.	PLATE NO. B02.39

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1*	01-003600		HOLDING VALVE, EXTEND CYLINDER	1
2	SEE INDEX	D19	EXTEND CYLINDER	1
3	SBA-204648-4		SIDE SLIDER PAD	4
4	SBA-204647-9		SLIDER PAD (5" X 9-3/8")	2
5	SEE INDEX	F3	HOSE TRACK	1
6			MOVING ANCHOR	1
7	SEE INDEX	D20	SLAVE LEVELING CYLINDER	1
8	SEE INDEX	D21	HOLDING VALVE, SLAVE LEVEL CYLINDER	2
9			HYDRAULIC HOSE, HPC PRESSURE	1
10			HYDRAULIC HOSE, HPC RETURN	1
11			HYDRAULIC HOSE, LEVEL CYLINDER ROD	1
12			HYDRAULIC HOSE, LEVEL CYLINDER CASE	1
13	03-085000		MULTI CONDUCTOR CABLE, 65'	A.R.
14	08-002200		BUSHING, PLATFORM PIVOT	2

* ITEM 1 IS THE REPLACEMENT FOR TWO PRECEEDING VALVES NO LONGER AVAILABLE; P/N'S 01-001000 AND 01-036900.

ADAPTER BLOCK, P/N SCD-202029-9 IS REQUIRED WITH ITEM 1 WHEN REPLACING EITHER OF THE HOLDING VALVES.

DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-207249-6

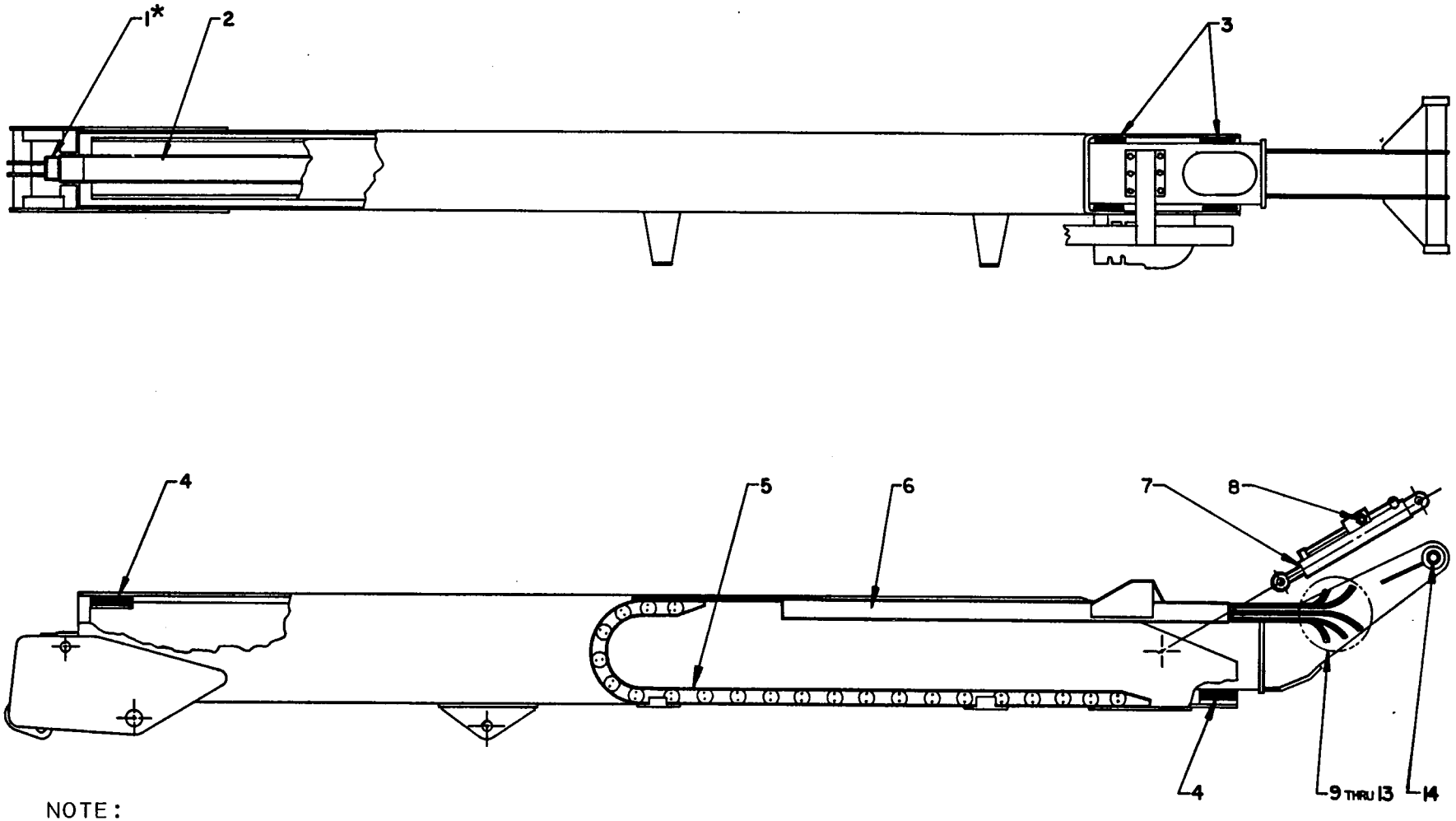
1284/0677

DESCRIPTION

BOOM ASSEMBLY

PART NO.

CAA-207249-6



NOTE:

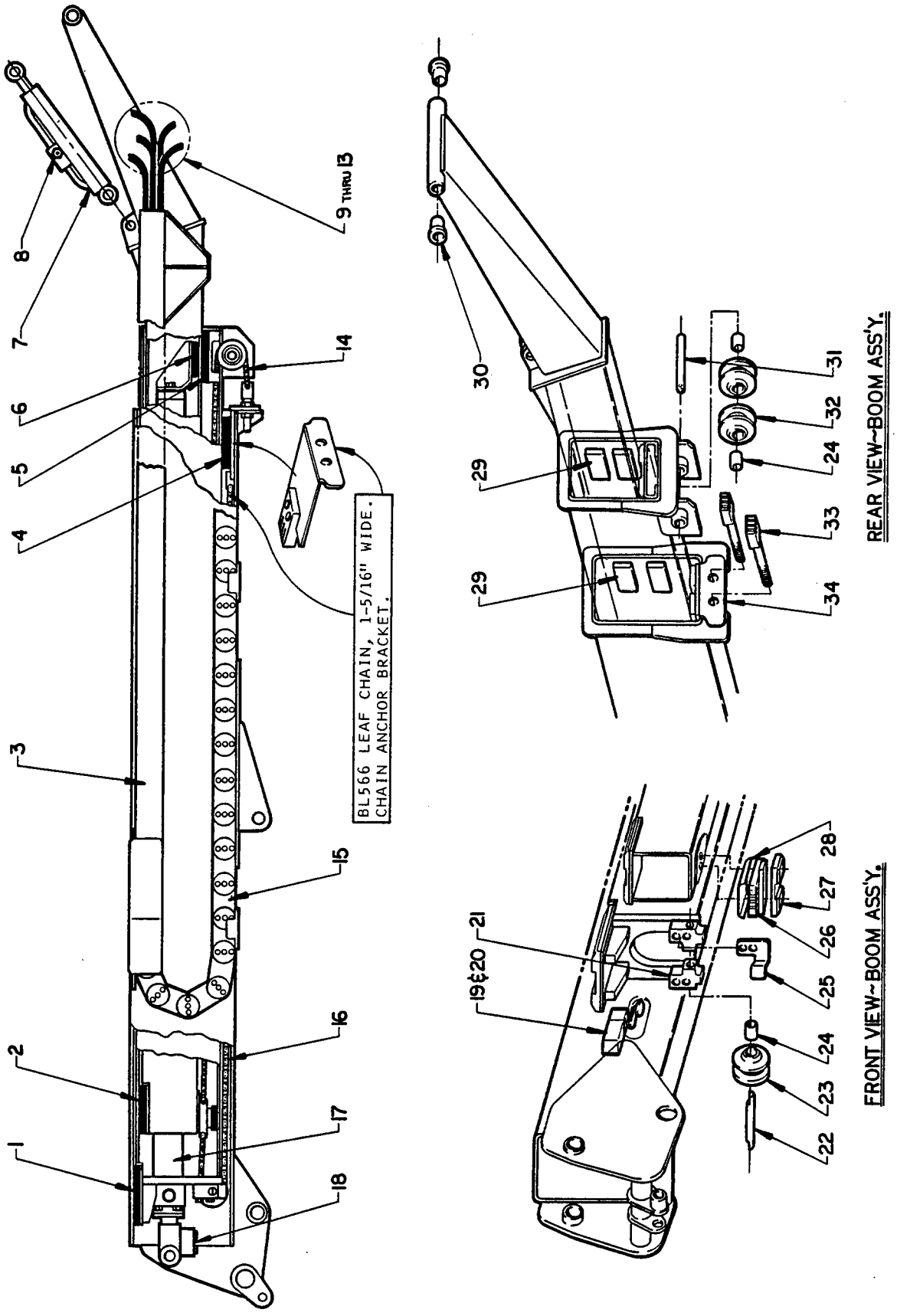
* ITEM 1 IS THE REPLACEMENT FOR TWO PRECEEDING VALVES NO LONGER AVAILABLE; P/N'S 01-001000 AND 01-036900.

ADAPTER BLOCK, P/N SCD-202029-9 IS REQUIRED WITH ITEM 1 WHEN REPLACING EITHER OF THE HOLDING VALVES.

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SCD-204329-6		SLIDER PAD, MID BOOM (TOP-FRONT)	1
2	SCD-204328-9		SLIDER PAD, TIP BOOM (TOP-FRONT)	1
3			MOVING ANCHOR	1
4	SBA-204704-5		SLIDER PAD, BASE BOOM (REAR-BOTTOM)	2
5	SAD-207299-9		SLIDER PAD, MID BOOM (REAR-BOTTOM)	1
6	SBD-201293-3		SLIDER PAD, EXTEND CYLINDER	1
7	SEE INDEX	D20	SLAVE LEVELING CYLINDER	1
8	SEE INDEX	D21	HOLDING VALVE, SLAVE LEVEL CYLINDER	2
9			HYDRAULIC HOSE, HPC PRESSURE	1
10			HYDRAULIC HOSE, HPC RETURN	1
11			HYDRAULIC HOSE, SLAVE CYLINDER ROD	1
12			HYDRAULIC HOSE, SLAVE CYLINDER CASE	1
13	03-085000		MULTI CONDUCTOR CABLE	80FT
14	08-012200		LEAF CHAIN, REAR (OUTSIDE)	2
15	SEE INDEX	F3	HOSE TRACK	1
16	03-012300		LEAF CHAIN, FRONT (INSIDE)	1
17	SEE INDEX	D19	EXTEND CYLINDER	1
18	01-003600		HOLDING VALVE, EXTEND CYLINDER	1
19	03-021400		LIMIT SWITCH	1
20	03-026000		LEVER ARM, LIMIT SWITCH	1
21	SBD-203772-9		ANCHOR BLOCK, CHAIN SHEAVE PIN	2
22	SAD-203763-9		PIN, FRONT CHAIN SHEAVE	1
23	SCD-203802-5		SHEAVE, FRONT CHAIN	1
24	08-009000		SLEEVE BEARING (DRILL GREASE HOLE AT ASSEMBLY)	3
25	SAD-200629-9		GUARD PLATE	1
26	SBW-204198-6		CHAIN ANCHOR BLOCK	1
27	SBD-201293-3		SLIDER PAD, CHAIN ANCHOR	1
28			RETAINER PLATE	1
29	SBA-204648-4		SIDE SLIDER PAD	8
30	08-002200		FLANGE BEARING	2
31	SBD-206980-3		PIN, REAR CHAIN SHEAVE	1
32	SCD-203803-0		SHEAVE, REAR CHAIN	2
33	SBD-203808-5		CHAIN ADJUSTING SCREW	2
34	SCW-206059-6		CHAIN ANCHOR BRACKET	1
35	SAD-203762-4		CHAIN ANCHOR PIN, 4" LG. (NOT SHOWN)	2
36	SAD-203768-4		CHAIN ANCHOR PIN, 2" LG. (NOT SHOWN)	3
37	07-070305		COTTER KEY, CHAIN PIN (NOT SHOWN)	10

DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-207255-9



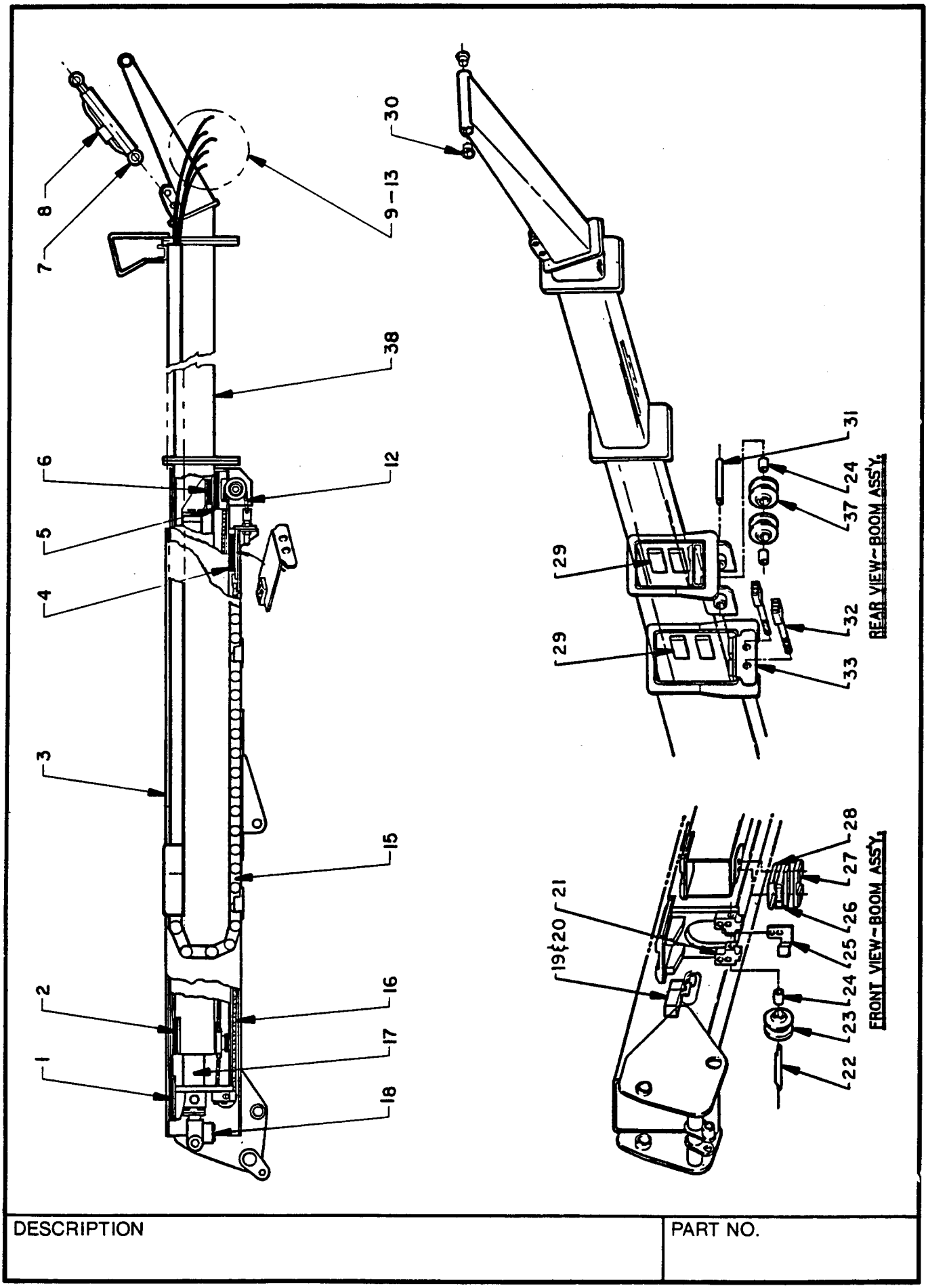
0285

DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-207255-9

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SCD-204329-6		SLIDER PAD, MID BOOM (TOP-FRONT)	1
2	SCD-204328-9		SLIDER PAD, TIP BOOM (TOP-FRONT)	1
3			MOVING ANCHOR	1
4	SBA-204704-5		SLIDER PAD, BASE BOOM (REAR-BOTTOM)	2
5	SAD-207299-9		SLIDER PAD, MID BOOM (REAR-BOTTOM)	1
6	SBD-201293-3		SLIDER PAD, EXTEND CYLINDER	1
7	SEE INDEX	D20	SLAVE LEVELING CYLINDER	1
8	SEE INDEX	D21	HOLDING VALVE, SLAVE LEVEL CYLINDER	2
9			HYDRAULIC HOSE, HPC PRESSURE	1
10			HYDRAULIC HOSE, HPC RETURN	1
11			HYDRAULIC HOSE, SLAVE CYLINDER ROD	1
12			HYDRAULIC HOSE, SLAVE CYLINDER CASE	1
13	03-085000		MULTI CONDUCTOR CABLE	
14	08-014300		LEAF CHAIN, REAR (OUTSIDE)	2
15	SEE INDEX	F3	HOSE TRACK	1
16	03-014200		LEAF CHAIN, FRONT (INSIDE)	1
17	SEE INDEX	D19	EXTEND CYLINDER	1
18	01-003600		HOLDING VALVE, EXTEND CYLINDER	1
19	03-021400		LIMIT SWITCH	1
20	03-026400		LEVER ARM, LIMIT SWITCH	1
21	SBD-203772-9		ANCHOR BLOCK, CHAIN SHEAVE PIN	2
22	SAD-203763-9		PIN, FRONT CHAIN SHEAVE	1
23	SCD-203802-5		SHEAVE, CHAIN	1
24	08-009000		SLEEVE BEARING	3
25	SAD-200629-9		GUARD PLATE	1
26	SBW-205477-3		CHAIN ANCHOR BLOCK	1
27	SBD-201293-3		SLIDER PAD, CHAIN ANCHOR	1
28			RETAINER PLATE	1
29	SBA-204648-4		SIDE SLIDER PAD	8
30	08-002200		FLANGE BEARING	2
31	SBD-205575-8		PIN, REAR CHAIN SHEAVE	1
32	SBD-205122-8		CHAIN ADJUSTING SCREW	2
33	SCW-205425-8		CHAIN ANCHOR BRACKET	1
34	SAD-203762-4		CHAIN ANCHOR PIN, 4" LG. (NOT SHOWN)	2
35	SAD-203768-4		CHAIN ANCHOR PIN, 2" LG. (NOT SHOWN)	3
36	07-070305		COTTER KEY, CHAIN PIN (NOT SHOWN)	10
37	SCD-203803-0		SHEAVE, REAR CHAIN	2
38			FIBERGLASS TIP BOOM SECTION	1

DESCRIPTION	PART NO.
BOOM ASSEMBLY	

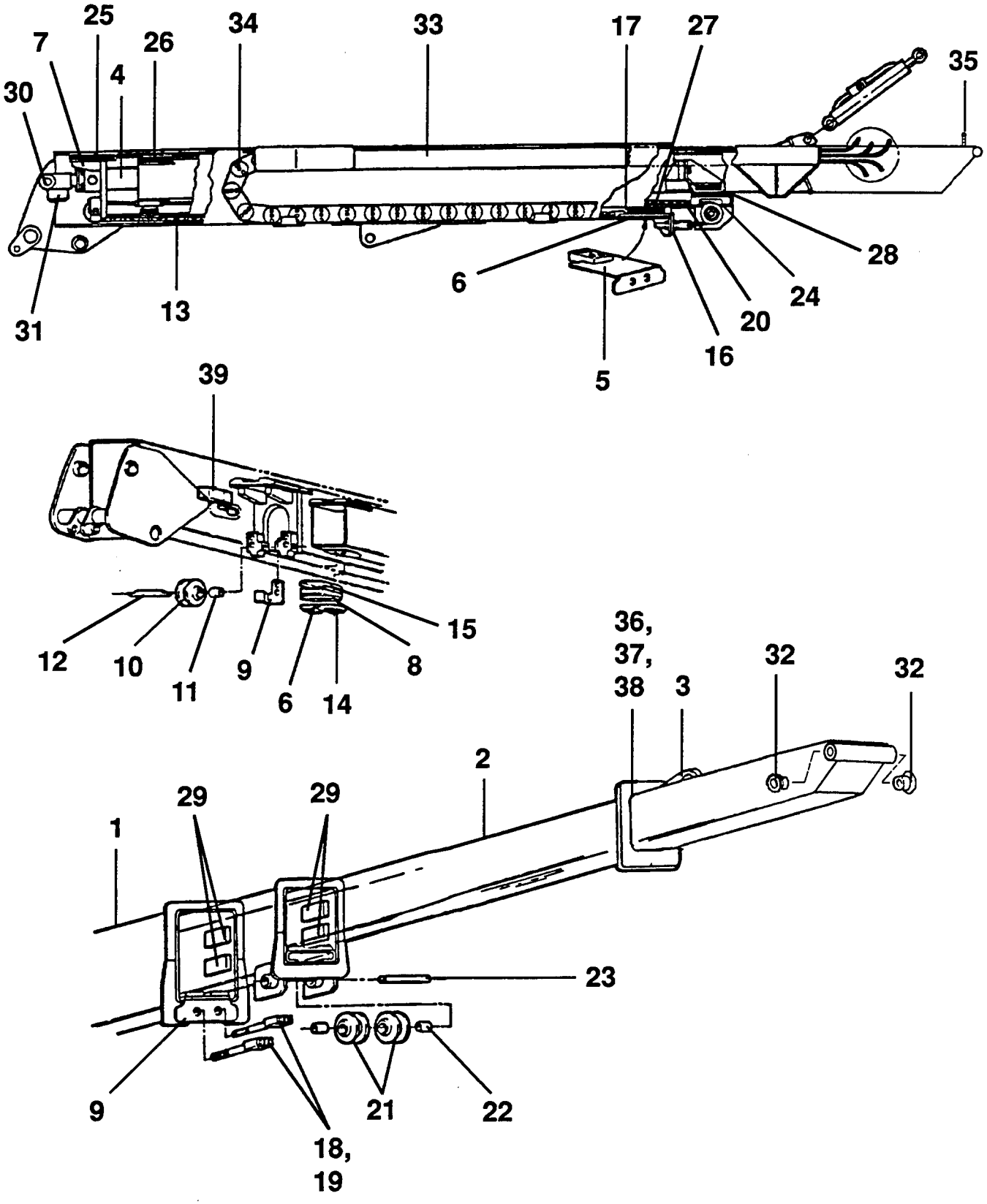


DESCRIPTION	PART NO.

PARTS LIST

ITEM	PART NUMBER	SEC.	DESCRIPTION	QTY.
1	SDW 211835-0		WELDMENT, BASE BOOM	1
2	SDW 211834-0		WELDMENT, MID BOOM	1
3	SDW 211723-0		WELDMENT, TIP BOOM	1
4	04-009400		CYLINDER, EXTEND (3-1/2 INCHES BORE)	1
5	SCW 205871-3		BRACKET, EXTEND CYLINDER	1
6	SBD 215587-0		PAD, WEAR	2
7	SBD 206772-6		BLOCK, CYLINDER MOUNTING	2
8	SBW 204198-6		ANCHOR, CHAIN TIP BOOM	1
9	SBD 203772-9		BLOCK, CHAIN SHEAVE MOUNTING	2
10	SCD 203802-5		SHEAVE	1
11	SAD 203786-8		SPACER	1
12	SAD 203763-9		PIN	1
13	08-012300		CHAIN 5/8 X 373 PITCHES	1
14	SAD 203762-4		PIN	3
15	SCW 211951-0		RETAINER, CHAIN	1
16	SCW 209749-9		ANCHOR, CHAIN BASE BOOM	1
17	SAM 204131-7		SCREW, HEX SOC. HEAD 3/4-10 X 1-1/2	2
18	SBD 203808-5		ANCHOR, CHAIN	2
19	SAD 203768-4		PIN, CHAIN	2
20	08-012200		CHAIN, 5/8 X 379 PITCHES	2
21	SCD 203803-0		SHEAVE, CHAIN	2
22	SAD 203783-9		SPACER	1
23	SBD 206980-3		PIN	1
24	SCW 210661-0		BRACKET, WEAR PAD	1
25	SBD 215588-0		PAD, WEAR	1
26	SBD 215589-0		PAD, WEAR	1
27	SBD 215590-0		PAD, WEAR	1
28	SBD 215591-0		PAD, WEAR	1
29	SBD 215592-0		PAD, WEAR	8
30	SBD 206774-4		PIN, CYLINDER MOUNTING	1
31	01-003600		VALVE, COUNTER BALANCE	1
32	08-002200		BUSHING, FLANGE	2

DESCRIPTION	PART NO.
MPH 60 BOOM ASSEMBLY, PEDESTAL (SHEET 1 OF 2)	SEA-215570-0

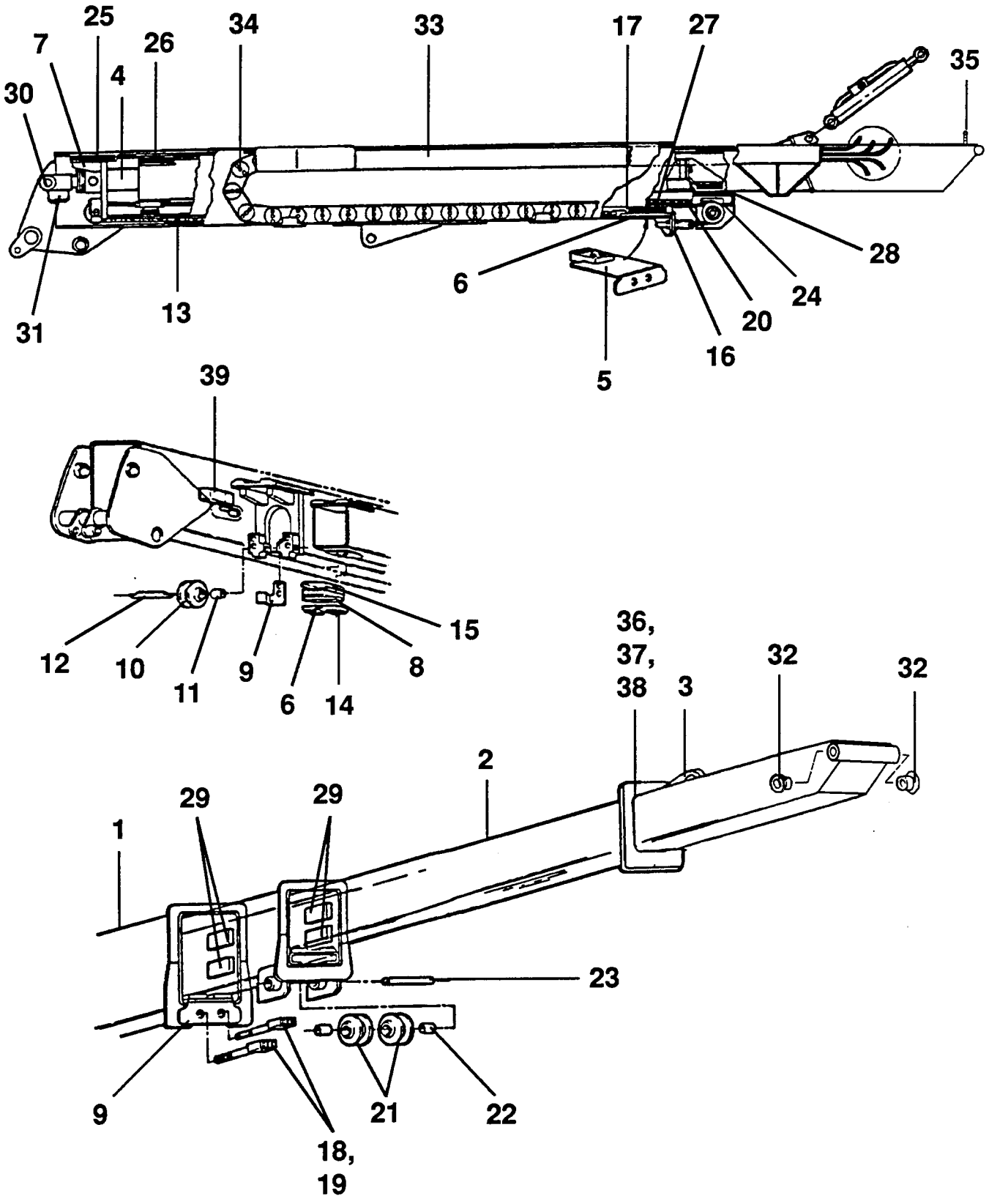


DESCRIPTION	PART NO.
MPH 60 BOOM ASSEMBLY, PEDESTAL (SHEET 1 OF 2)	SEA-215570-0

PARTS LIST

ITEM	PART NUMBER	SEC.	DESCRIPTION	QTY.
33	SDW 214057-0		ANCHOR, MOVING	1
34	08-015100		CATRACK #45 (45 LINKS)	1
35	SBA 215593-0		CLAMP, HOSE AND WIRE	5
36	SBD 209468-1		BRACKET, MOVING ANCHOR GUIDE	1
37	SCD 215594-0		PAD, MOVING ANCHOR GUIDE	1
38	SBD 215595-0		PAD, TOP BAR	1
39			LIMIT SWITCH	1
40			CABLE, 24 CONDUCTOR (NOT SHOWN)	1

DESCRIPTION	PART NO.
MPH 60 BOOM ASSEMBLY, PEDESTAL (SHEET 2 OF 2)	SEA-215570-0



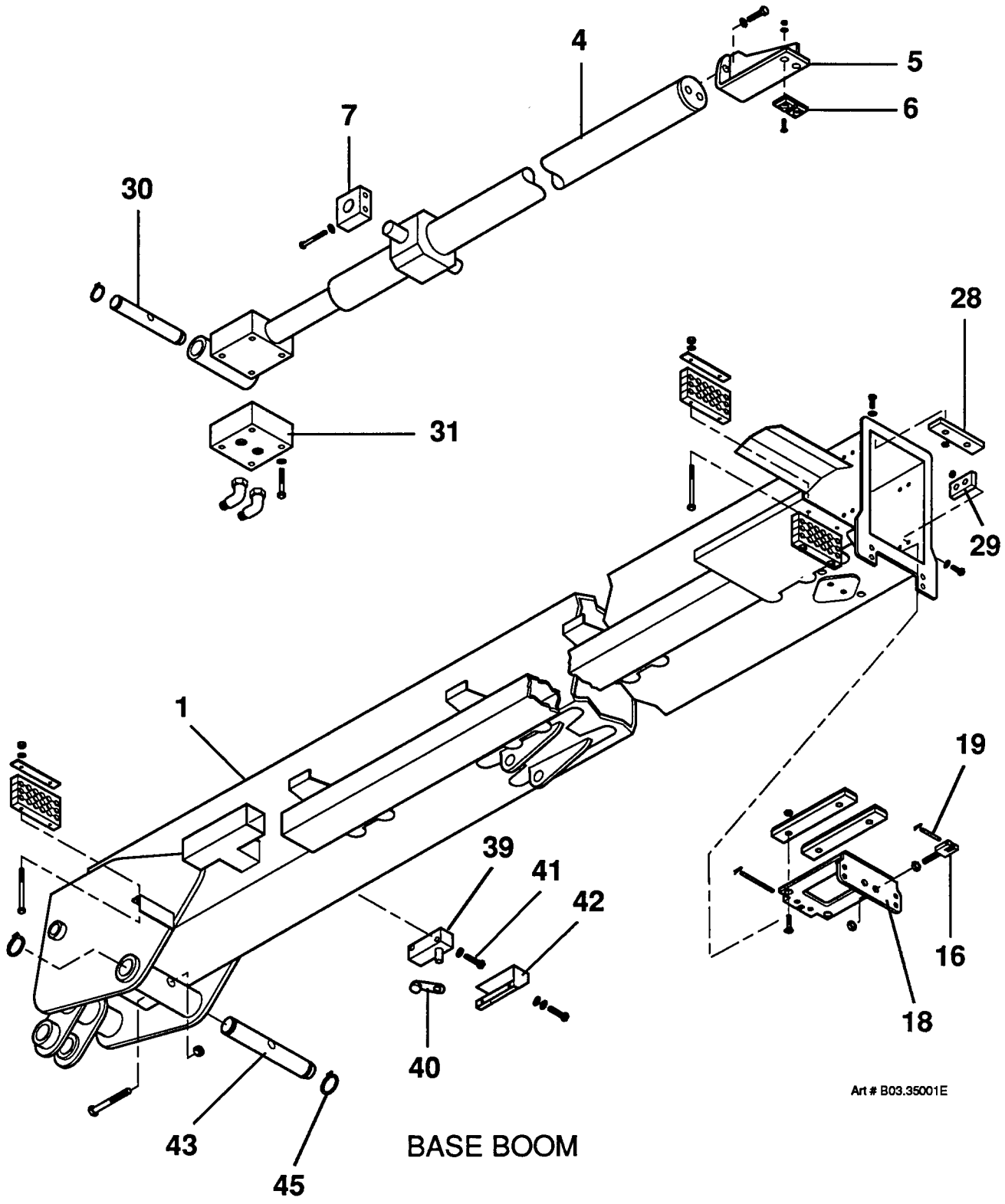
DESCRIPTION	PART NO.
MPH 60 BOOM ASSEMBLY, PEDESTAL (SHEET 2 OF 2)	SEA-215570-0

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2177250		BOOM, BASE WELDMENT	1
2	2118340		BOOM, MID WELDMENT	1
3	2141170		BOOM, TIP WELDMENT	1
4	04-009400		CYLINDER, EXTEND (3-1/2" Bore, 180" Stroke)	1
5	2058713		BRACKET, TELESCOPE CYLINDER WEAR PAD	1
6	2012933		PAD, TELESCOPE CYLINDER WEAR	
			[5-1/4" (133 mm) x 3" (76 mm)]	2
7	2067726		BLOCK, TELESCOPE CYLINDER	2
8	2041986		ANCHOR, CHAIN, TIP BOOM	1
9	2037729		BLOCK, CHAIN SHEAVE MOUNTING	2
10	2038025		SHEAVE (3-1/4" O. D., for 5/8" pitch leaf chain)	1
11	2037868		SPACER, CHAIN SHEAVE	1
12	2037639		PIN, CHAIN SHEAVE (1" x 9")	1
13	08-012300		CHAIN (5/8" pitches, 373 links)	1
14	2037624		PIN	3
15	2119510		RETAINER, CHAIN	1
16	2097499		ANCHOR, CHAIN, BASE BOOM	1
17	2041317		SCREW, HEX SOCKET HEAD (3/4-10 x 1-1/2")	2
18	2038085		ANCHOR, CHAIN	2
19	2037684		PIN, CHAIN	2
20	08-012200		CHAIN (5/8" pitches, 379 links)	2
21	2038030		SHEAVE, CHAIN	2
22	2037839		SPACER	1
23	2069803		PIN	1
24	2106610		BRACKET, WEAR PAD	1
25	2043296		PAD, WEAR	1
26	2043289		PAD, WEAR	1
27	2083717		PAD, WEAR	1
28	2118320		PAD, WEAR	1
29	2070357		PAD, WEAR	8
30	2067744		PIN, CYLINDER MOUNTING	1
31	01-003600		VALVE, HOLDING	1
32	08-002200		BUSHING, FLANGE	2
33	2140570		ANCHOR, MOVING	1
34	08-015100	F03.39	CARRIER, HOSE (Hose Track) (45 Links)	1
35	2043199		CLAMP, HOSE AND WIRE	5
36	2094681		BRACKET, MOVING ANCHOR GUIDE	1
37	2102190		PAD, MOVING ANCHOR GUIDE	1
38	2136280		PAD, TOP BAR	1
39	03-021400		SWITCH, LIMIT	1
40	03-026000		LEVER, LIMIT SWITCH	1
41	07-008355		SCREW, HEX SOCKET HEAD (#10-24 x 1-1/2")	2

TITLE BOOM ASSY, MPH 60 (STRAIGHT TIP) (END MOUNT PLTFM) (PLATE 1 OF 2)

PLATE NO.	B03.36	SIMON AERIALS INC.	REV. 04/07/91	PART NO.	3522650



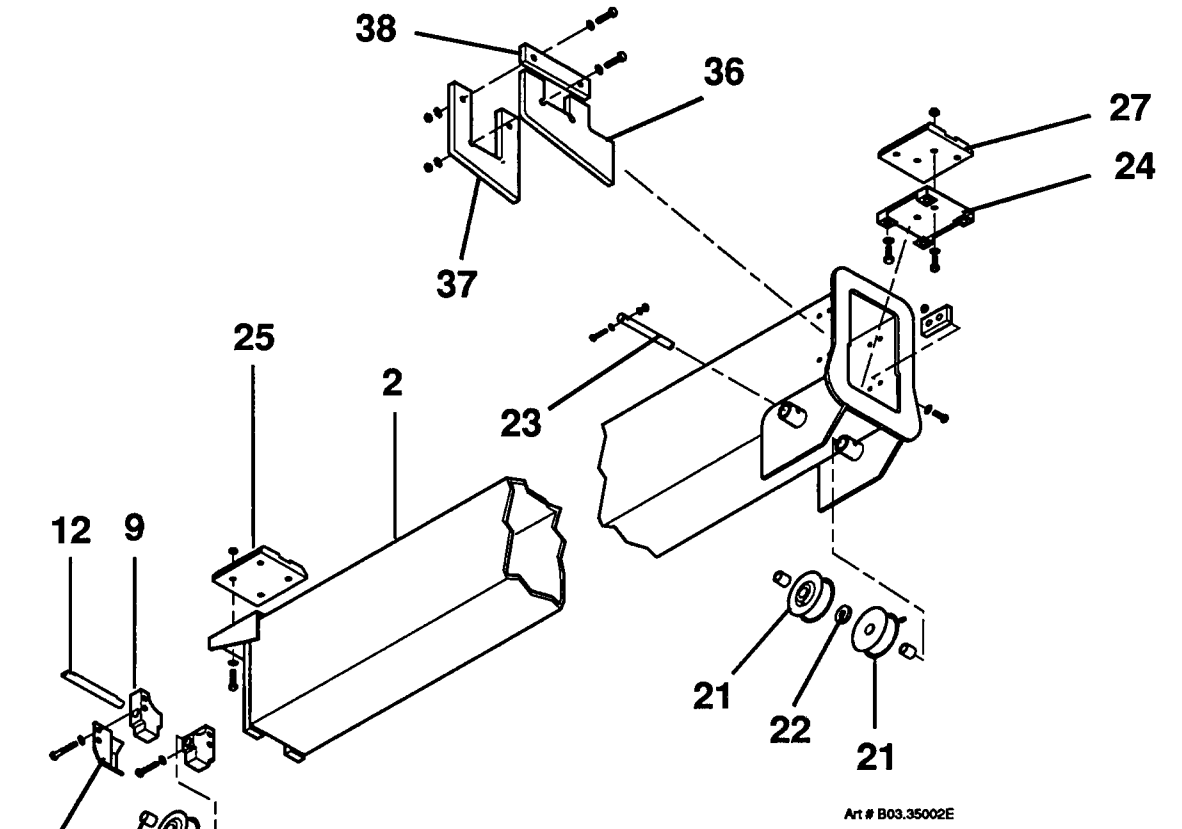
TITLE BOOM ASSY, MPH 60 (STRAIGHT TIP) (END MOUNT PLTFM) (PLATE 1 OF 2)			
SIMON AERIALS INC. REV. 04/07/91	PART NO. 3522650	PLATE NO. B03.36	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
42	2009322		COVER, LIMIT SWITCH	1
43	2142410		PIN, MASTER CYLINDER (Rod End)	1
44	2068879		PIN, SLAVE CYLINDER (Base End)	1
45	08-040700		RING, SNAP (1-1/4")	4
46	2069155		PIN, LIFT CYLINDER (Rod End) (Not Shown)	1
47	08-041000		RING, SNAP (1-3/4") (Not Shown)	2
48	03-085000		CABLE, 24 CONDUIT (Not Shown)	AR

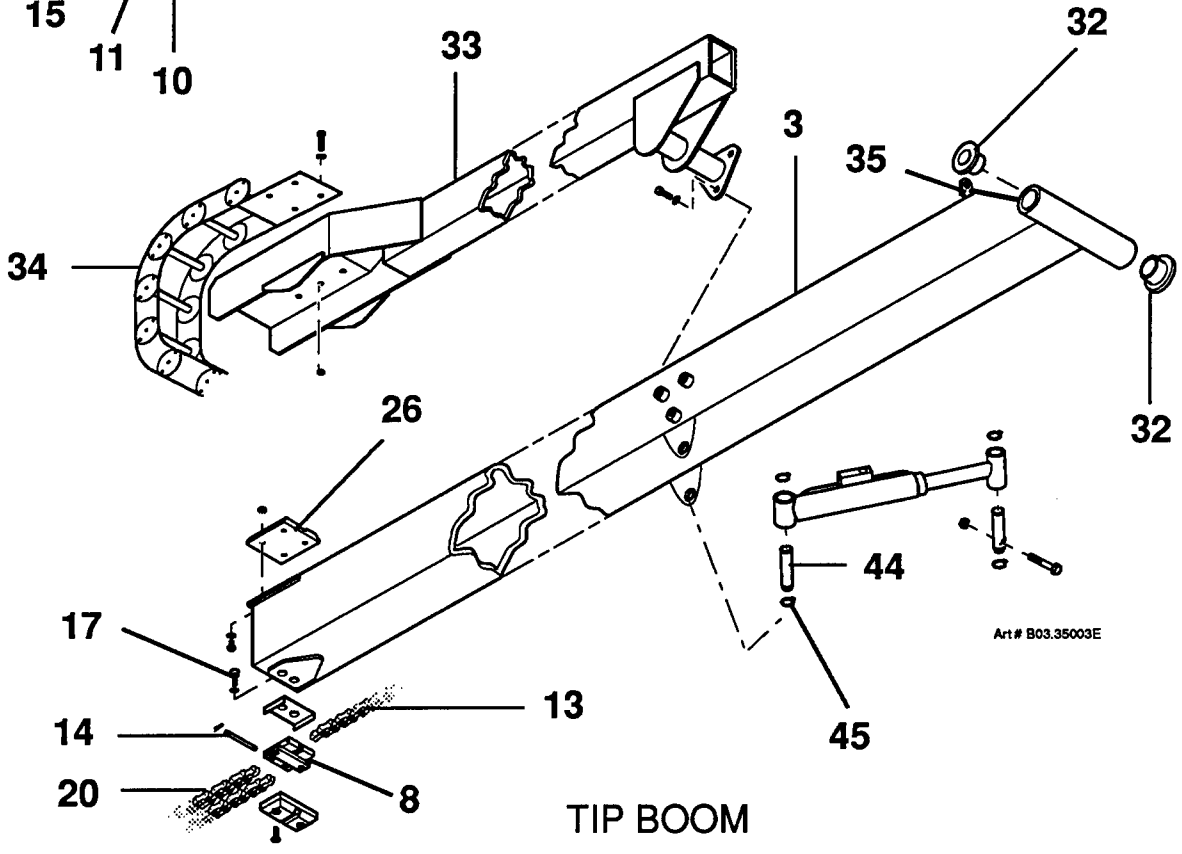
TITLE BOOM ASSY, MPH 60 (STRAIGHT TIP) (END MOUNT PLTFM) (PLATE 2 OF 2)

PLATE NO. B03.36 | **SIMON AERIALS INC.** REV. 04/07/91 | PART NO. 3522650



Art # B03.35002E

MID BOOM



Art # B03.35003E

TIP BOOM

TITLE BOOM ASSY, MPH 60 (STRAIGHT TIP) (END MOUNT PLTFM) (PLATE 2 OF 2)			
SIMON AERIALS INC.	REV. 04/07/91	PART NO. 3522650	PLATE NO. B03.36

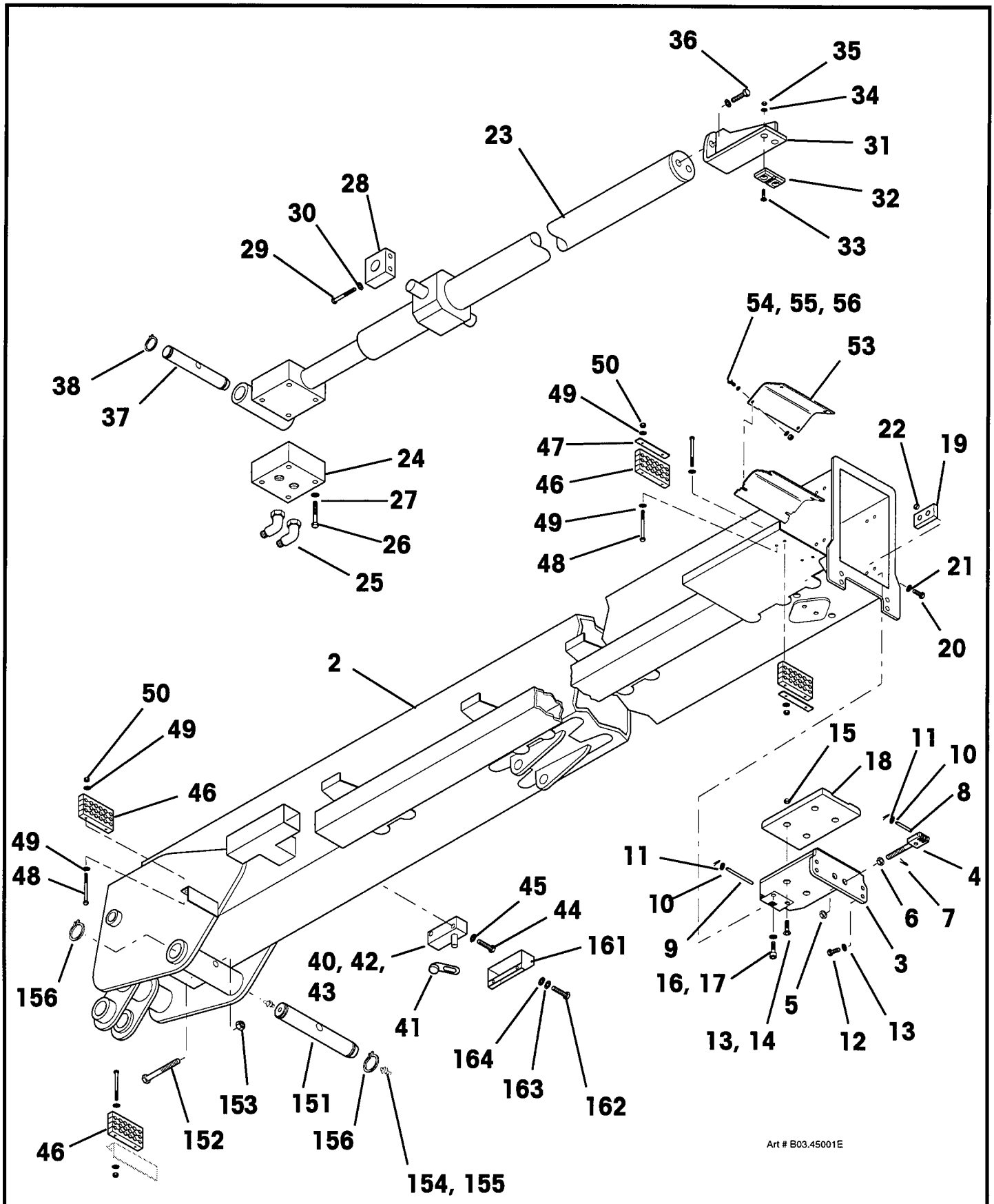
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BOOM ASSEMBLY	1
	353 3120		With "Full Hydraulic" controls	
	353 7130		With "Electro-Proportional" controls	
	355 0810		For S/N AXA 00974, 975, 976 (Special version without platform, and with "Simcon" controls)	
2			BOOM WELDMENT, BASE	1
	211 8350		Standard version	
	232 5730		For S/N AXA 00974, 975, 976 (Special version w/o platform)	
3	209 7499		BRACKET, CHAIN AND WEAR PAD MOUNTING (rear)	1
4	203 8085		ANCHOR, CHAIN	2
5	07-047123		NUT, HEX JAM (7/8"-14, Grade 5)	4
6	07-040123		NUT, HEX (7/8"-14, Grade 5)	2
7	07-070506		PIN, COTTER (1/8" x 1-1/4")	6
8	203 7684		PIN, LEAF CHAIN ANCHOR (2" long, for 5/8" pitch chain)	2
9	203 7624		PIN, LEAF CHAIN ANCHOR (4" long, for 5/8" pitch chain)	1
10	07-060014		WASHER, FLAT (1/4" SAE)	4
11	07-070305		PIN, COTTER (1/16" x 1")	6
12	07-003127		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 5)	4
13	07-065021		WASHER, HELICAL LOCK (5/8")	8
14	07-003126		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/4", Grade 5)	4
15	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	4
16	204 1317		CAP SCREW, SOCKET HEAD (3/4"-10 x 1-1/2", drilled)	4
17	07-065022		WASHER, HELICAL LOCK (3/4")	4
18	208 3717		PAD, WEAR (Base boom, rear, bottom) (7.0" x 10.0")	1
19	207 0357		PAD, SIDE WEAR (4.5" x 2.5" [11.4 x 6.35 cm])	4
20	07-003084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 5)	8
21	07-065018		WASHER, HELICAL LOCK (1/2")	8
22	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	8
23			CYLINDER, TELESCOPE	1
	04-036100	D19.39	Earlier version	
	04-057400	D19.48	Later version	
24	01-003600		VALVE, HOLDING	1
25	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	2
26	07-003011		CAP SCREW, HEX HEAD (1/4"-20 x 2-1/2", Grade 5)	4
27	07-065014		WASHER, HELICAL LOCK (1/4")	4
28	206 7726		BLOCK, TELESCOPE CYLINDER	2
29	07-004138		CAP SCREW, HEX HEAD (5/8"-11 x 4-1/2", Grade 8)	4
30	07-065021		WASHER, HELICAL LOCK (5/8")	4

TITLE: BOOM ASSEMBLY, MPH 60

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Simon Aerials Inc.
10600 West Brown Deer Road
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Fax 414-355-3172



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 BOOM ASSEMBLY, MPH 60					
	PART NO.	REV. -	DATED 16 APR., 1997	SECTION B03.	PLATE NO. 45	PAGE 01

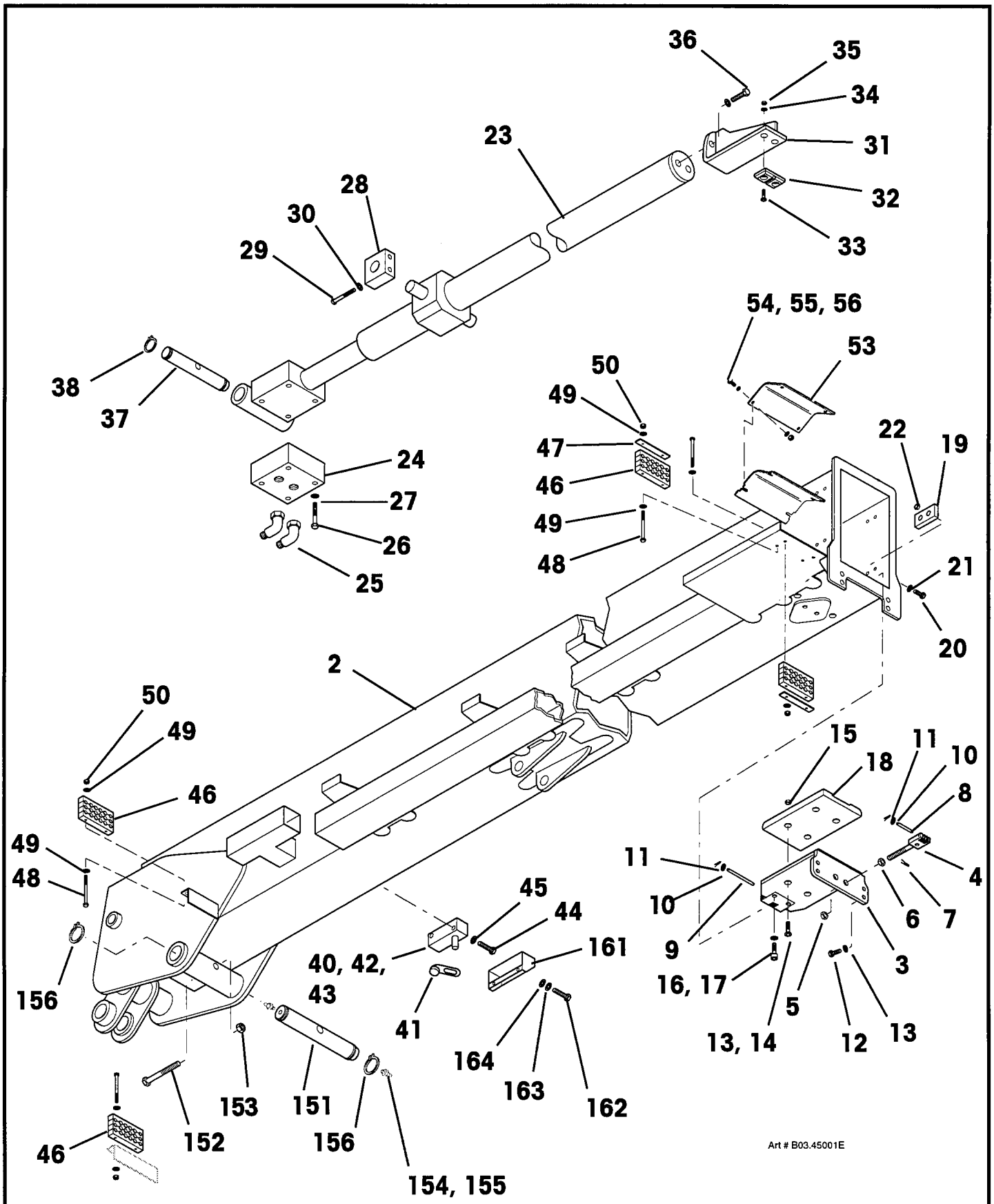
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			BOOM ASSEMBLY (continued)	
31	205 8713		SHOE, TELESCOPE CYLINDER	1
32	201 2933		PAD, TELESCOPE CYLINDER WEAR	
			(5.2" x 3.0" [13.3 x 7.6 cm])	1
33	07-015129		MACHINE SCREW, FLAT HEAD (5/8"-11 x 2", Grade 5)	2
34	07-065021		WASHER, HELICAL LOCK (5/8")	2
35	07-040021		NUT, HEX (5/8"-11, Grade 5)	2
36	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	2
37	206 7744		PIN, TELESCOPE CYLINDER (1.50" x 12.94")	1
38	08-040900		RING, RETAINING (1.5")	2
39	351 8520		SWITCH ASSEMBLY, LIMIT (double pole)	1
40	03-493800		SWITCH, LIMIT (2 N.O., 2 N.C contacts)	1
41	03-494000		ARM, LIMIT SWITCH (2" fixed roller)	1
42	03-085700		CABLE, ELECTRICAL (4 conductor, #16 AWG)	
			(Bulk item. 15 ft [4.57 m] needed here)	A.R.
43	03-041000		GRIP, CORD (Plastic, 1/2", with .38" to .44" seal)	1
44	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8	2
45	07-065011		WASHER, HELICAL LOCK (#10)	2
46			CLAMP, HOSE	5
	218 5280		13 holes, 4.6" x 2.9" (with "Electro-Proportional" controls)	
	218 5280		13 holes, 4.6" x 2.9" (with "Simcon" controls)	
	213 0670		18 holes, 6.0" x 3.4" (with "Full Hydraulic" controls)	
47	218 1180		BAR, HOSE CLAMP COMPRESSION (holes not countersunk)	2
48			CAP SCREW, HEX HEAD	8
	07-003055		3/8"-16 x 3-1/2", Grade 5 (for 2.9" high clamps)	
	07-003057		3/8"-16 x 4", Grade 5 (for 3.4" high clamps)	
49	07-062016		WASHER, FLAT (3/8")	16
50	07-050016		NUT, LOCK (3/8"-16, Grade 5)	8
51	07-062015		WASHER, FLAT (5/16")	2
52	07-050015		NUT, LOCK (5/16"-18, Grade 5)	2
53	230 1010		PAD, WEAR (Moving anchor) (8.5" x 11" x .12")	1
54	07-017046		CAP SCREW, BUTTON HEAD (3/8"-16 x 1-1/4", Grade 5)	4
55	07-062016		WASHER, FLAT (3/8")	8
56	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	4

TITLE: BOOM ASSEMBLY, MPH 60

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Simon Aerials Inc.
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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 BOOM ASSEMBLY, MPH 60					
	PART NO.	REV. -	DATED 16 APR., 1997	SECTION B03.	PLATE NO. 45	PAGE 02

PARTS LIST

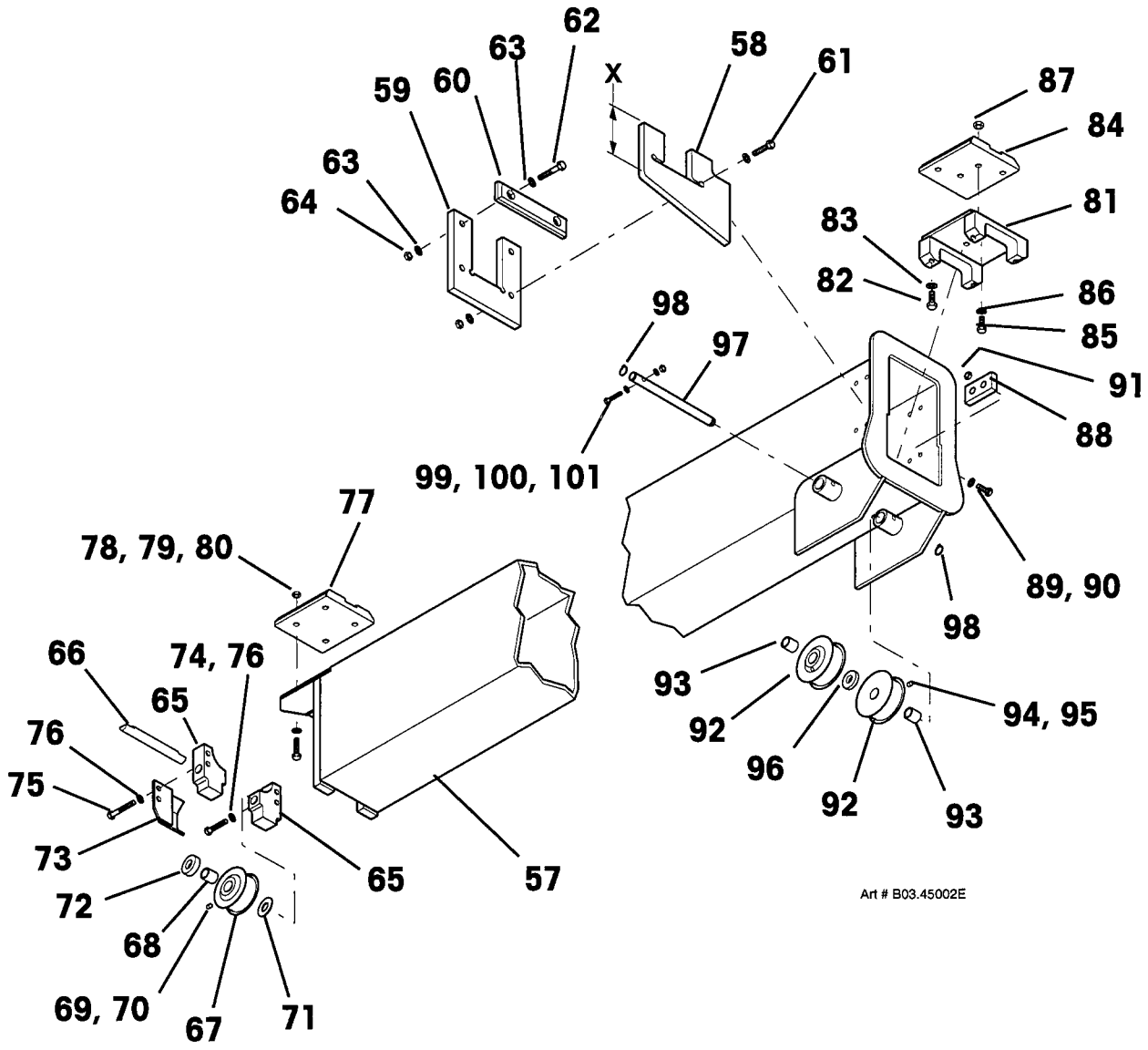
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			BOOM ASSEMBLY (continued)	
57	211 8340		BOOM WELDMENT, MID (does not include Bracket, Item 58)	1
58			BRACKET, MOVING ANCHOR GUIDE	1
	231 2860		Standard version (Ref. dimension "X" = 4.8" [12 cm])	
	232 5980		For S/N AXA 00974, 975, 976 (Special version w/o platform) (Ref. dimension "X" = 8.4" [21 cm])	
59	210 2190		GUIDE, MOVING ANCHOR (bottom/ side)	1
60	215 8770		GUIDE, MOVING ANCHOR (top)	1
61	07-003089		CAP SCREW, HEX HEAD (1/2"-13 x 2", Grade 5)	2
62	07-003091		CAP SCREW, HEX HEAD (1/2"-13 x 2-1/2", Grade 5)	2
63	07-062018		WASHER, FLAT (1/2")	8
64	07-058400		NUT, HEX (1/2"-13, Grade 5)	4
65	218 5540		BLOCK, CHAIN SHEAVE MOUNTING (replaces 203 7729)	2
66	203 7639		PIN, CHAIN SHEAVE (1.0" x 9.0") (replaces 231 9610)	1
67	203 8025		SHEAVE (3.25" O.D., for 5/8 pitch leaf chain)	1
68	08-009000		BEARING, SLEEVE	1
69	08-053100		FITTING, GREASE (1/4"-28, straight)	1
70	08-066300		CAP, GREASE FITTING (White plastic)	1
71	07-060024		WASHER, FLAT (1" SAE)	1
72	203 7868		SPACER, SHEAVE	1
73	211 9510		RETAINER, CHAIN	1
74	07-004133		CAP SCREW, HEX HEAD (5/8"-11 x 3", Grade 8)	2
75	07-004134		CAP SCREW, HEX HEAD (5/8"-11 x 3-1/4", Grade 8)	2
76	07-065021		WASHER, HELICAL LOCK (5/8")	4
77	204 3296		PAD, WEAR (Mid boom, top front) (7" x 9.2" [18 x 23.5 cm])	1
78	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 4-1/2", Grade 5)	2
79	07-065021		WASHER, HELICAL LOCK (5/8")	2
80	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	2

TITLE

BOOM ASSEMBLY, MPH 60

SECTION B03. | PLATE NO. 45 | PAGE 03 | REV. - | DATED 16 APR., 1997 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
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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	BOOM ASSEMBLY, MPH 60						
	PART NO.	REV. -	DATED 16 APR., 1997	SECTION B03.	PLATE NO. 45	PAGE 03		

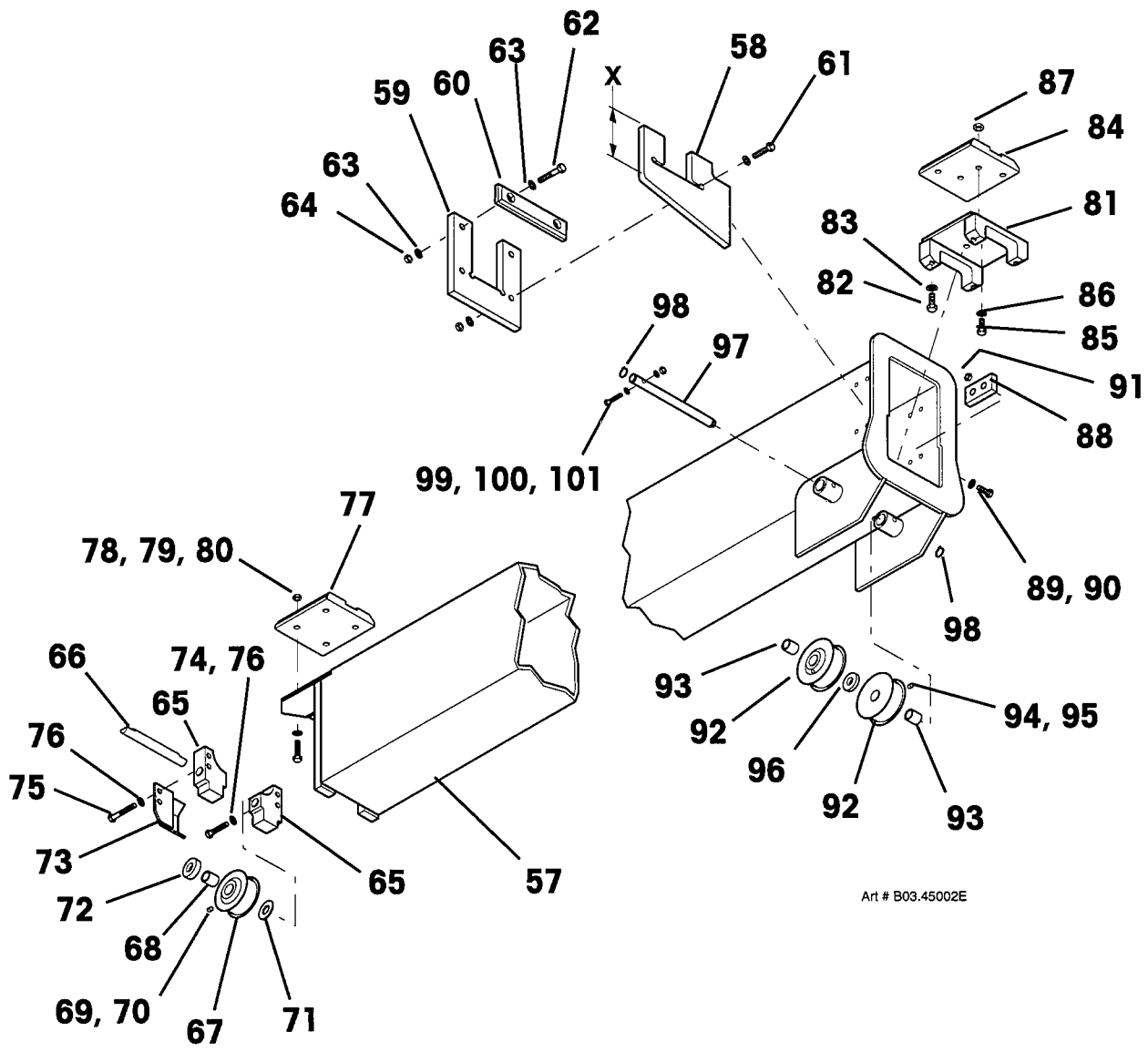
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			BOOM ASSEMBLY (continued)	
81	210 6610		BRACKET, WEAR PAD	1
82	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	4
83	07-065018		WASHER, HELICAL LOCK (1/2")	4
84	211 8320		PAD, WEAR (Mid boom, bottom rear) (8.0" x 6.2" [20 x 16 cm])	1
85	07-008084		CAP SCREW, SOCKET HEAD (1/2"-13 x 7/8", Grade 5)	2
86	07-065018		WASHER, HELICAL LOCK (1/2")	2
87	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	2
88	207 0357		PAD, SIDE WEAR (4.5" x 2.5" [11.4 x 6.35 cm])	4
89	07-003084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 5)	8
90	07-065018		WASHER, HELICAL LOCK (1/2")	8
91	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	8
92	203 8030		SHEAVE (4.0" O.D., for 5/8 pitch leaf chain)	2
93	08-009000		BEARING, SLEEVE	2
94	08-053100		FITTING, GREASE (1/4"-28, straight)	2
95	08-066300		CAP, GREASE FITTING (White plastic)	2
96	203 7839		SPACER, SHEAVE	1
97	206 9803		PIN, CHAIN SHEAVE (1.0" x 12.19")	1
98	08-040600		RING, RETAINING (1.0")	2
99	07-003052		CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5)	1
100	07-062016		WASHER, FLAT (3/8")	2
101	07-050015		NUT, LOCK (3/8"-16, Grade 5)	1

TITLE: BOOM ASSEMBLY, MPH 60

SECTION B03. | PLATE NO. 45 | PAGE 04 | REV. - | DATED 16 APR., 1997 | PART NO.

Simon Aerials Inc.
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Fax 414-355-3172



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	BOOM ASSEMBLY, MPH 60					
	PART NO.	REV. -	DATED 16 APR., 1997	SECTION B03.	PLATE NO. 45	PAGE 04	

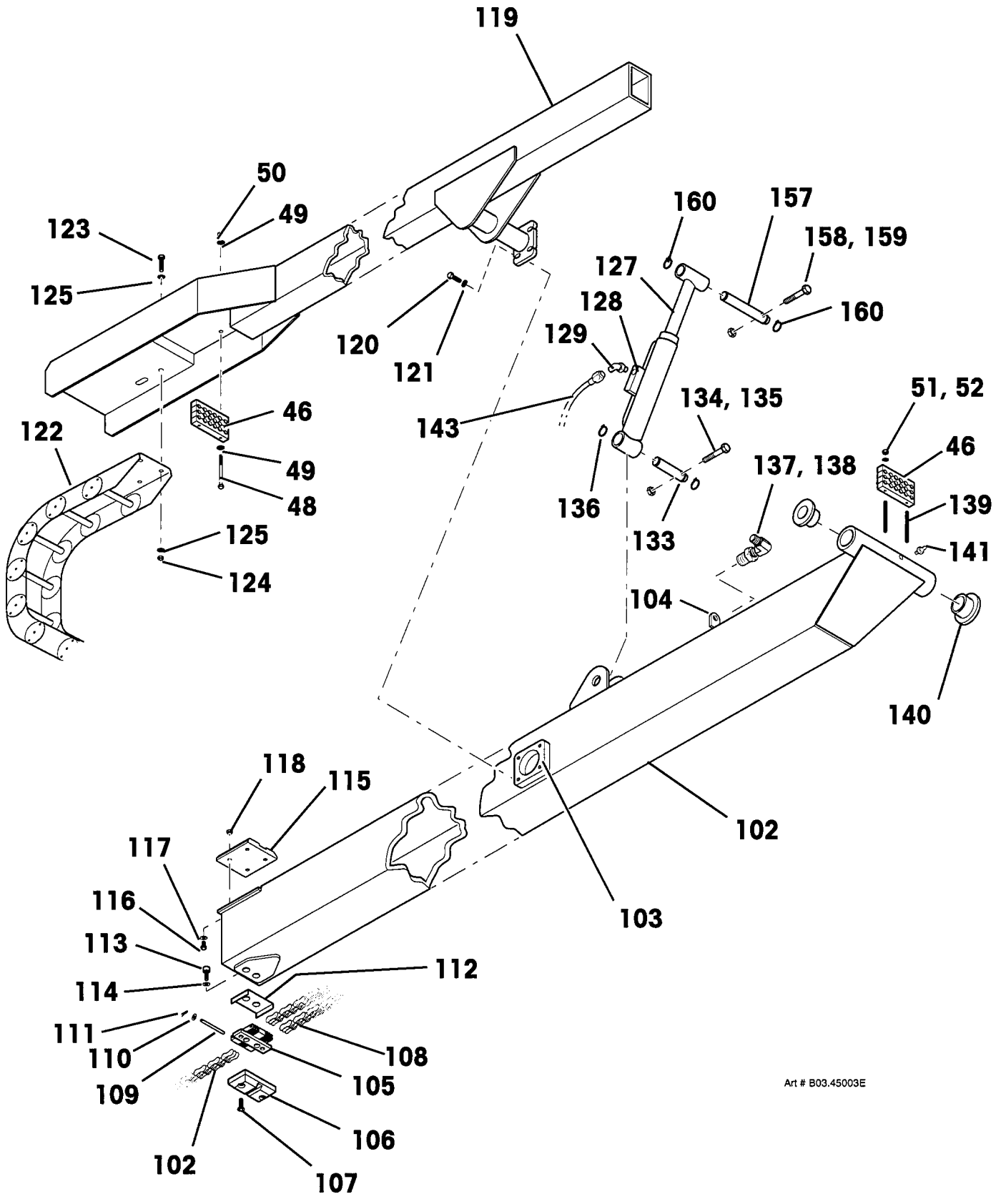
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			BOOM ASSEMBLY (continued)	
102	211 7230		BOOM WELDMENT, TIP (does not include #103 or #104, below)	1
103	204 4626		PLATE, MOVING ANCHOR MOUNTING	1
104	07-062017		WASHER, FLAT (7/16")	2
105	204 1986		ANCHOR, CHAIN	1
106	201 2933		PAD, WEAR (Chain anchor)	1
107	07-015125		MACHINE SCREW, FLAT HEAD (5/8"-11 x 1", Grade 5)	2
108	08-011000		CHAIN, LEAF (5/8" pitch, 557 P)	3
109	203 7624		PIN, LEAF CHAIN ANCHOR (4" long, for 5/8" pitch chain)	2
110	07-060014		WASHER, FLAT (1/4" SAE)	4
111	07-070305		PIN, COTTER (.06" x 1.0")	4
112	205 9031		PLATE, ANCHOR CHAIN BLOCK LOCKING	1
113	204 1317		CAP SCREW (socket head, modified 3/4"-10 x 1-1/2", Grade 8)	2
114	07-065022		WASHER, HELICAL LOCK (3/4")	2
115	204 3289		PAD, WEAR (Tip boom top front) (7.0" x 7.38")	1
116	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	2
117	07-065021		WASHER, HELICAL LOCK (5/8")	2
118	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	2
119	232 5940		ANCHOR WELDMENT, MOVING	1
120	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	4
121	07-065021		WASHER, HELICAL LOCK (5/8")	4
122	08-076600		CARRIER, HOSE (Hose track)	1
123	07-017045		CAP SCREW, BUTTON HEAD (3/8"-16 x 1", Grade 5)	8
124	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	8
125	07-062016		WASHER, FLAT (3/8")	16
126	352 9740		CYLINDER ASSEMBLY, SLAVE LEVEL	1
127			CYLINDER, SLAVE LEVEL	1
	04-035400	D20.16	Earlier version	
	04-056600	D20.20	Later version	
128	01-227200		VALVE, COUNTERBALANCE (CB-CB-LHN)	2
129	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C5OX-S)	2
130	08-050500		FITTING, GREASE (1/8" NPT, 45°)	1
131	08-051300		FITTING, GREASE (1/8" NPT, 90°)	1
132	08-066300		CAP, GREASE FITTING (White plastic)	2
133	206 8884		PIN, SLAVE CYLINDER (1.25" x 4.88") (base end)	1
134	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1
135	07-058400		NUT, LOCK (1/2"-13, Grade 5)	1
136	08-040700		RING, RETAINING (1.25")	2
137	06-033300		90° ELBOW, BULKHEAD UNION (4 WETX-WLN-S) (left side)	1
138	06-031800		UNION, BULKHEAD (4 WTX-S) (right side)	1
139	214 1160		ROD, THREADED (5/16"-18 x 5.5" long)	2

TITLE: BOOM ASSEMBLY, MPH 60

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
B03.	45	05	-	16 APR., 1997	

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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 BOOM ASSEMBLY, MPH 60					
	PART NO.	REV. -	DATED 16 APR., 1997	SECTION B03.	PLATE NO. 45	PAGE 05

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			BOOM ASSEMBLY (continued)	
140	08-002200		BEARING, FLANGED (1.25" I.D., 1.50" O.D., 2" flange)	2
141	08-050000		FITTING, GREASE (1/8" NPT, straight)	1
142	08-066300		CAP, GREASE FITTING (White plastic)	1
143			HOSE, BOOM	
			(**Note:** Part number shown is for **hose only**, pre-cut to specific	
			length shown. Must be trimmed to proper length after routing through boom hose track and carrier tubes, prior to installation of correct **end fittings** as indicated on charts on opposite page):	
			for "**Electro-Proportional**" or "**Simcon**" units, (pre-cut to 84 ft [25.6 m]):	
	05-083400		#4 hose (see chart on opposite page for correct fittings)	
			For standard version	4
			For special version without platform	6
	350 7995		16 inches (0.406 m) long, with (2) 4-4 FJX fittings	2
	351 4310		106 inches (2.692 m) long, with (2) 4-4 FJX fittings	1
	351 4320		111 inches (2.819 m) long, with (2) 4-4 FJX fittings	1
	351 4330		131 inches (3.327 m) long, with (2) 6-6 FJX fittings	2
			for "**Full Hydraulic**" units, (pre-cut to 84 ft [25.6 m]):	
	05-083400		#4 hose (see chart on opposite page for correct fittings)	5
	05-083500		#6 hose (see chart on opposite page for correct fittings)	4
	05-083600		#8 hose (see chart on opposite page for correct fittings)	2
	352 4550		8.5 ft (2.591 m) long, with (2) 4-4 FJX fittings	1
	352 4560		8.9 ft (2.713 m) long, with (2) 4-4 FJX fittings	1
144			PROTECTOR, HOSE (rubber sheet) (not shown)	3
	10-113200		6" x 9" x 1/8" thick	
145	10-113000		8" x 12" x 1/8" thick	
146	03-085900		CABLE, ELECTRICAL (3 conductor, 12 AWG)	
			(Bulk item, order as needed)	A.R.
147	03-085700		CABLE, ELECTRICAL (4 conductor, 16 AWG)	
			(Bulk item, order as needed)	A.R.
148	03-488900		CABLE, ELECTRICAL (24 conductor, 16 AWG)	
			(Bulk item, order as needed)	A.R.
149	03-066400		TIE, CABLE (20" [508 mm] long) for Full Hydraulic	8
	03-064700		TIE, CABLE (14.5 [368 mm] long) for Electro-Proportional	24
150	10-060600		CLAMP, LOOP (G6, 3/8")	2

TITLE: BOOM ASSEMBLY, MPH 60

SECTION B03. | PLATE NO. 45 | PAGE 06 | REV. - | DATED 16 APR., 1997 | PART NO.

Simon Aerials Inc.
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143 HOSE, BOOM, for "**Electro-Proportional**" or "**Simcon**" units:

05-083400 #4 hose, pre-cut to 84 ft [25.6 m] length (4) (6 for special version)

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)
For Special Version	06-213100 (4M3 KPC-S)	06-144500 (4-6 FJX-S)	06-144300 (4-4 FJX-S)

HOSE, BOOM, for "**Full Hydraulic**" units:

05-083400 #4 hose, pre-cut to 84 ft [25.6 m] length (5)

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)
7, 8, & 10	06-213100 (4M3 KPC-S)	06-144500 (4-6 FJX-S)	06-144500 (4-6 FJX-S)

05-083500 #6 hose, pre-cut to 84 ft [25.6 m] length (4)

For hoses marked:	Ferrule (for each end):	Fitting:	
		Lower end:	Upper end:
D, E, R and 9	06-213200 (6PC1F-M2-S)	06-144900 (6-6 FJX-S)	06-144900 (6-6 FJX-S)

05-083600 #8 hose, pre-cut to 84 ft [25.6 m] length (2)

For hoses marked:	Ferrule (for each end):	Fitting:	
		Lower end:	Upper end:
P and R2	06-213300 (8M3 KPC-S)	06-145500 (8-8 FJX-S)	06-145500 (8-8 FJX-S)

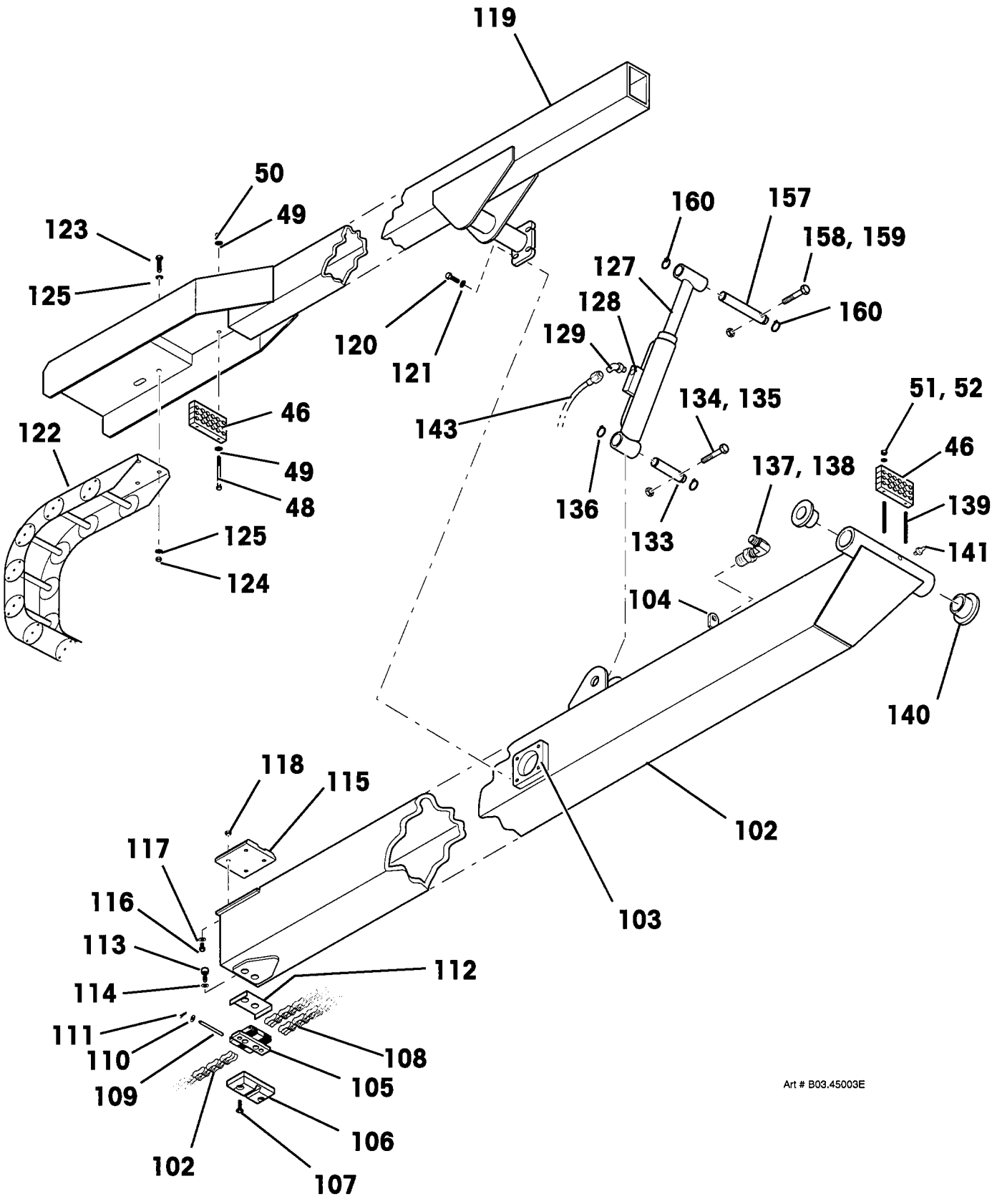
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items **are not** included with the Boom Assembly:	
151	206 9146		PIN, BOOM PIVOT (2-1/4" x 17") (replaces 219 4590)	1
152	07-004102		CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 8)	1
153	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
154	08-050000		FITTING, GREASE (1/8", straight)	2
155	08-066300		CAP, GREASE FITTING (White plastic)	2
156	08-043200		RING, RETAINING (2.25")	2
157	2068879		PIN, SLAVE CYLINDER (1.25" x 7.38") (rod end)	1
158	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1
159	07-058400		NUT, LOCK (1/2"-13, Grade 5)	1
160	08-040700		RING, RETAINING (1-1/4")	2
161	200 9322		COVER, LIMIT SWITCH (option)	1
162	07-003022		CAP SCREW, HEX HEAD (5/16"-18 x 5/8", Grade 5)	2
163	07-065015		WASHER, HELICAL LOCK (5/16")	2
164	07-062014		WASHER, FLAT (1/4")	2

TITLE: BOOM ASSEMBLY, MPH 60

SECTION B03. | PLATE NO. 45 | PAGE 07 | REV. - | DATED 16 APR., 1997 | PART NO.

Simon Aerials Inc.
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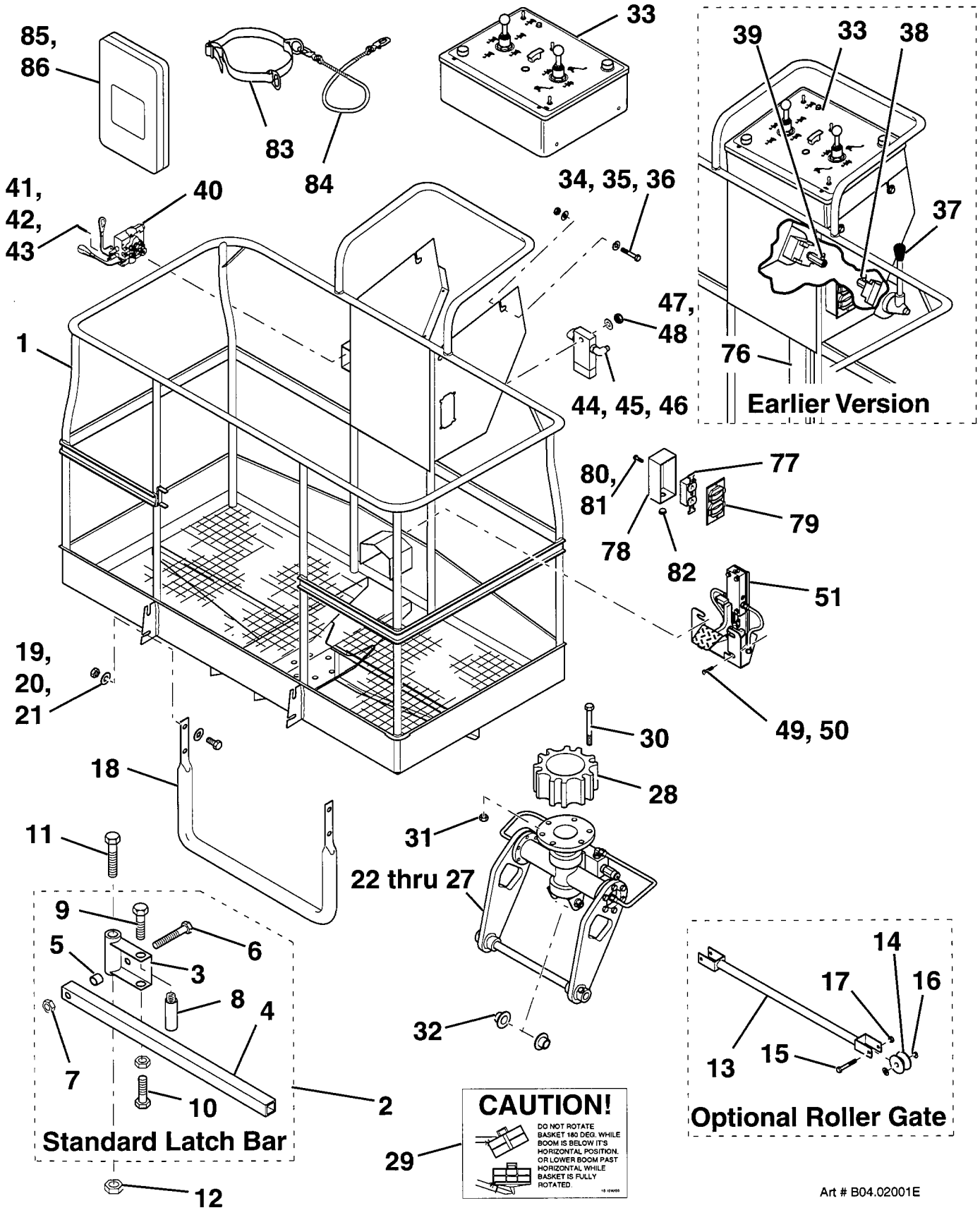
Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE BOOM ASSEMBLY, MPH 60					
	PART NO.	REV. -	DATED 16 APR., 1997	SECTION B03.	PLATE NO. 45	PAGE 07

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

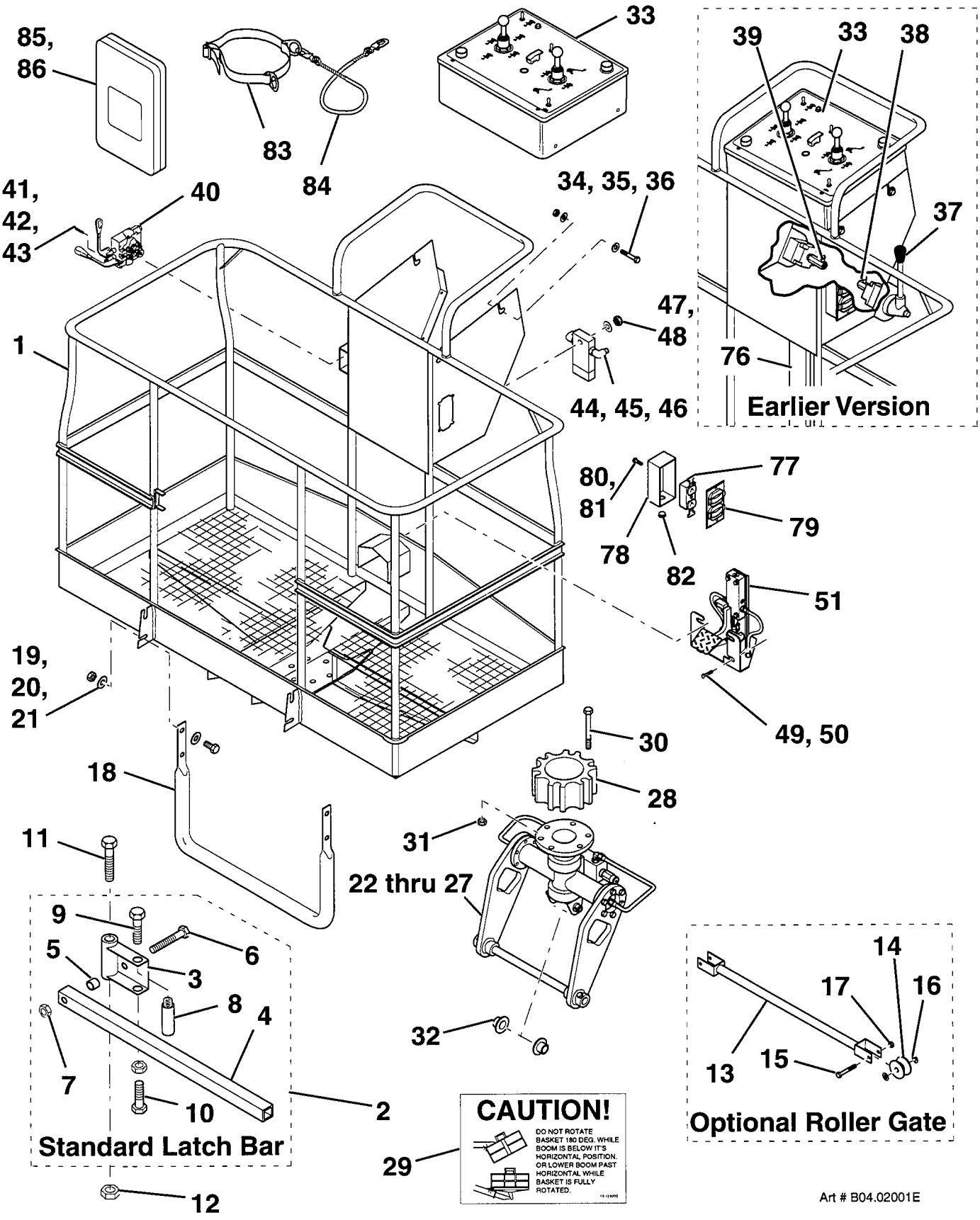


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 4)		
SIMON AERIALS INC.	REV. 07 DEC., 1994	PART NO.	PLATE NO. B04.02

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

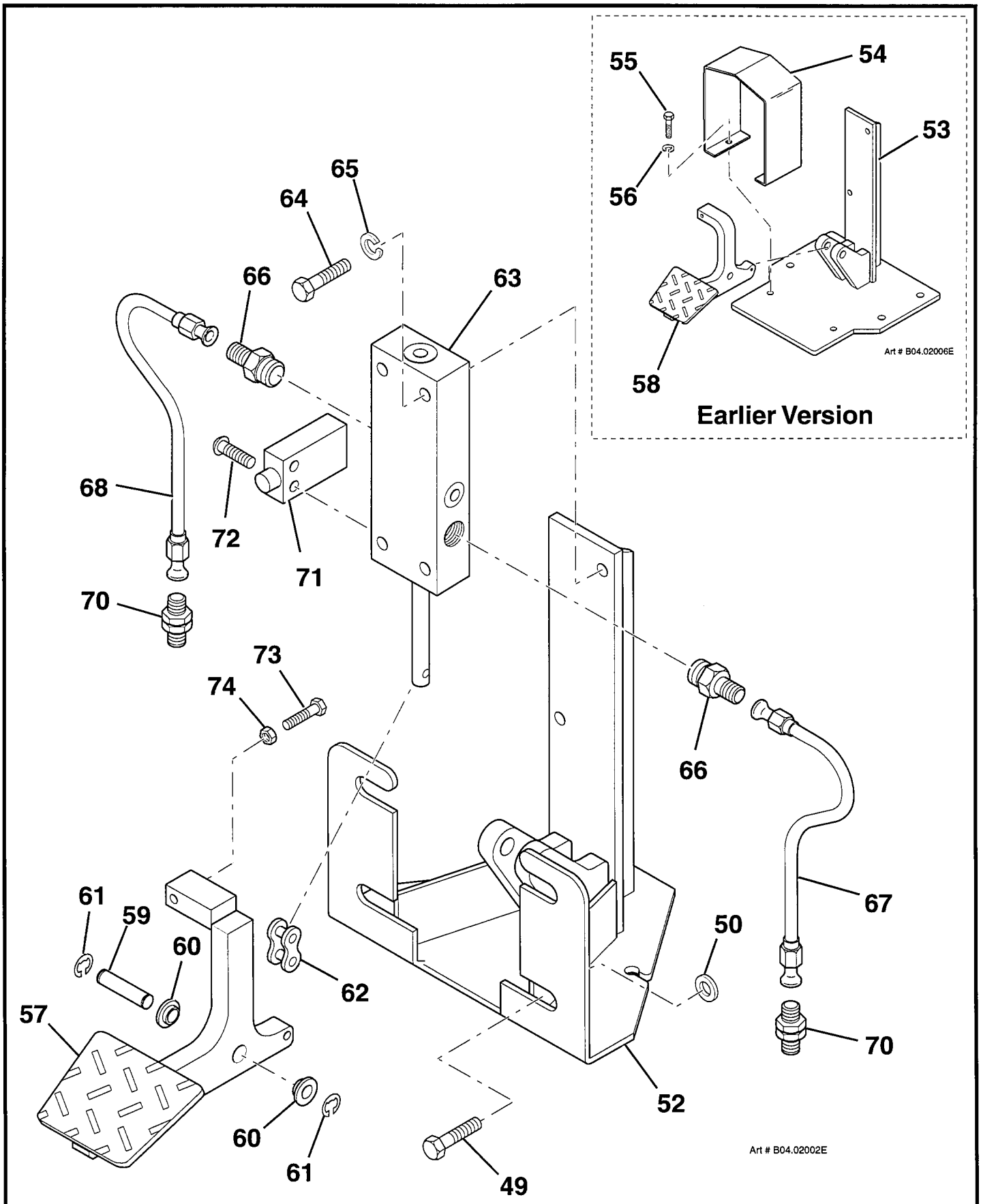


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 4)		
SIMON AERIALS INC.	REV. 07 DEC., 1994	PART NO.	PLATE NO. B04.02

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.

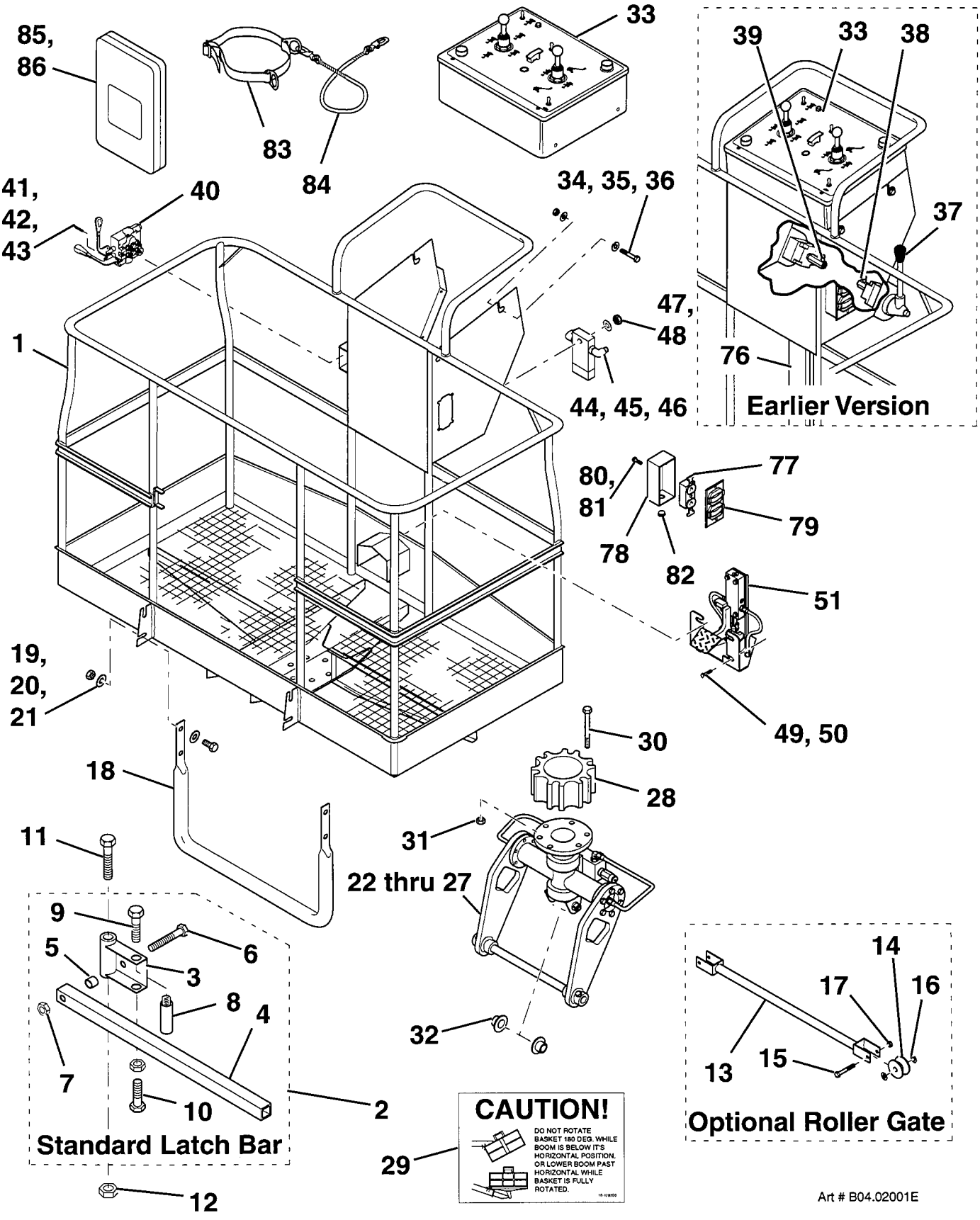


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 4)		
SIMON AERIALS INC.	REV. 07 DEC., 1994	PART NO.	PLATE NO. B04.02

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



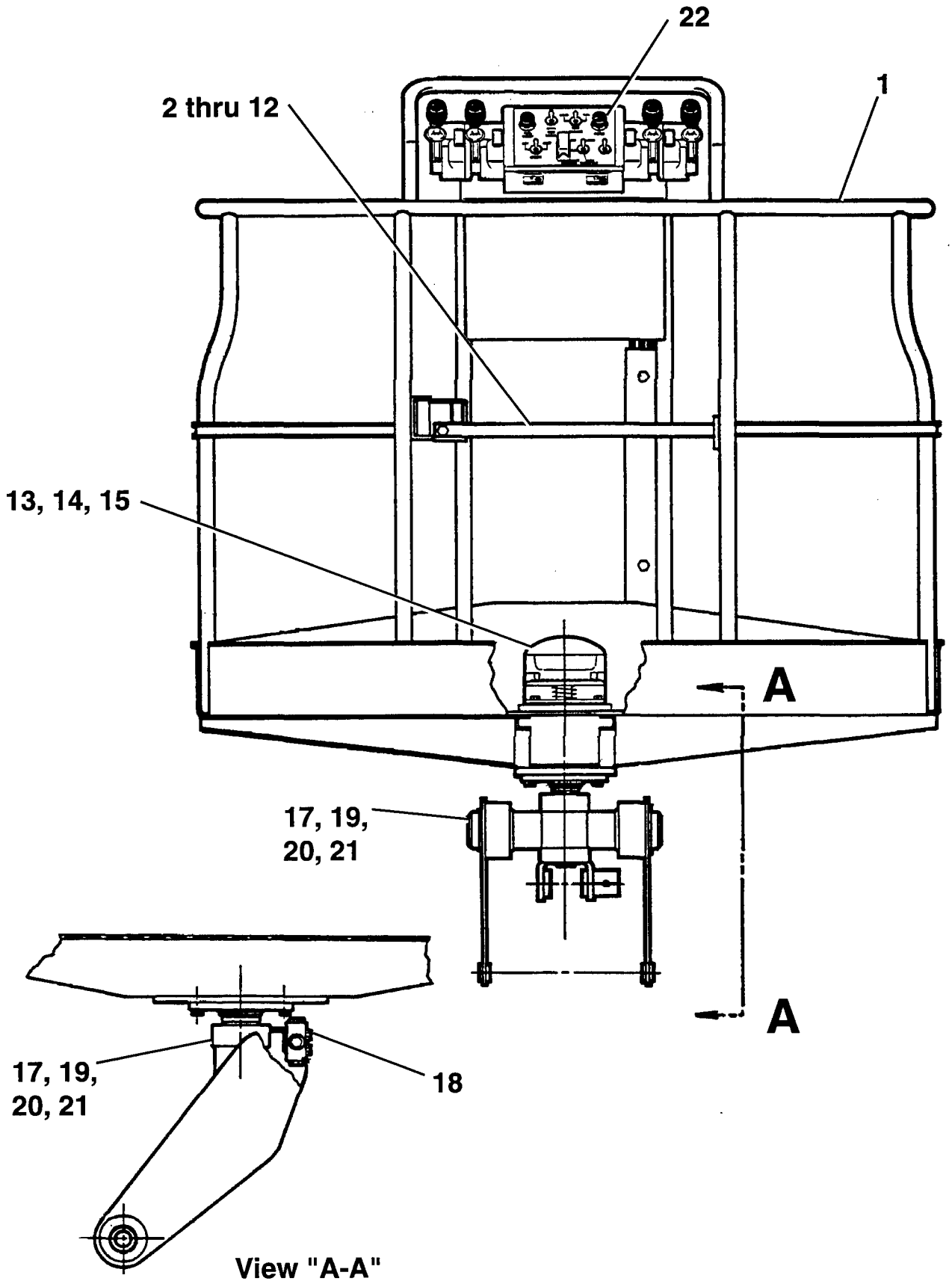
Art # B04.02001E

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 (Standard type, with Rotary Actuator mounted **under** floor) 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 (Earlier versions. No cartridges protrude from block.)	1
	01-202000		MANIFOLD, RELIEF/ CHECK VALVE (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.

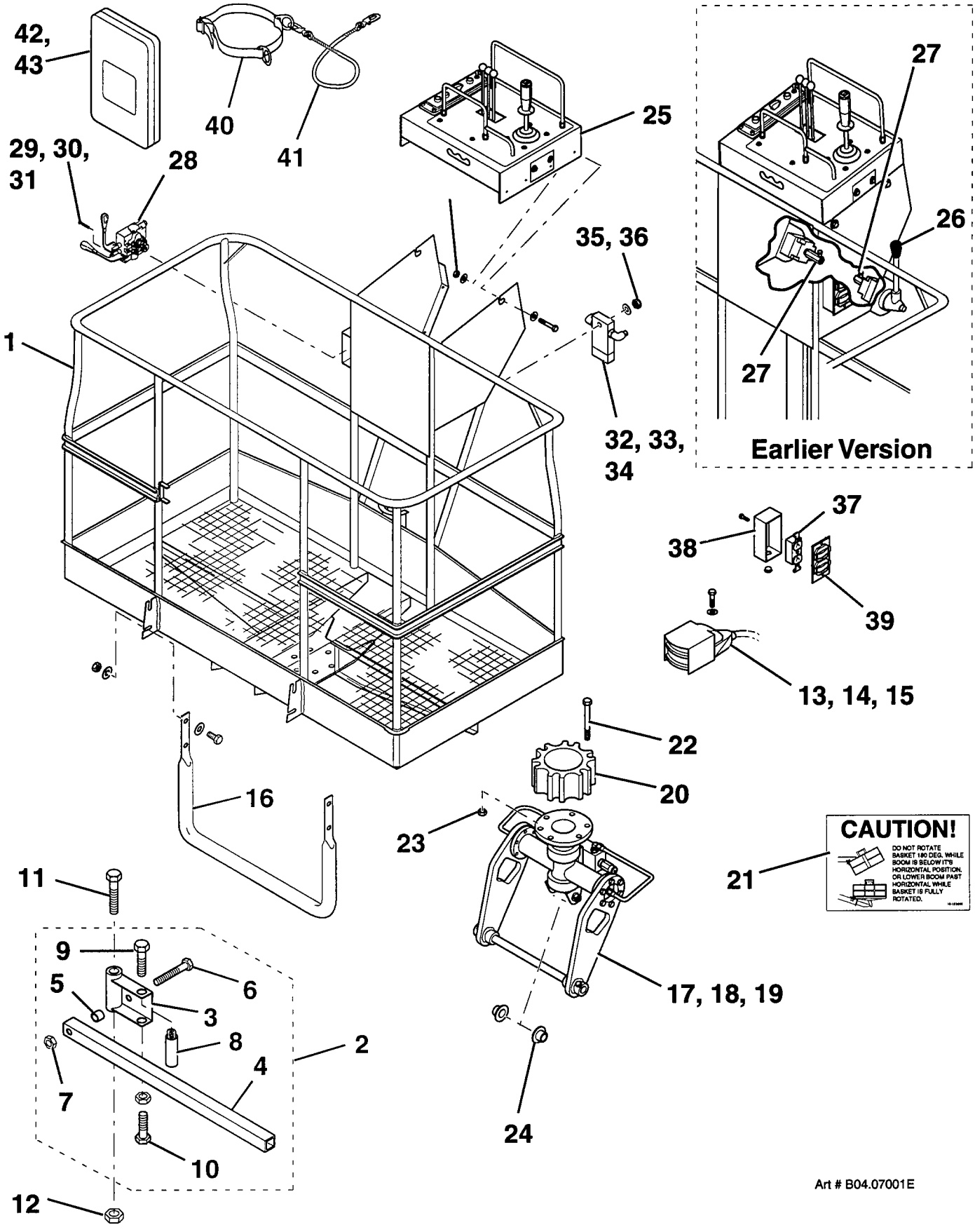


TITLE	PLATFORM ASSEMBLY, MP SERIES		
SIMON AERIALS INC. REV. 01 DEC., 1994		PART NO.	PLATE NO. B04.06

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PLATFORM WELDMENT	
			(Standard type, with Rotary Actuator mounted **under** floor)	1
			For **Full Hydraulic** controls (4 "Joysticks"):	
			Earlier style, with Platform Rotate valve on left, and Platform Level valve on right side of console:	
	209 6054		**MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**)	
	211 4440		**MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**)	
	210 1450		**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 5300		**MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**)	
	230 5330		**MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**)	
	230 5270		**MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**)	
	230 6920		**Special Application** (30" x 60" [.76 M x 1.52 M])	
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	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)	1
17	See Index .	D24. - -	ACTUATOR, ROTARY (Helical type, 180°)	1
18	01-001900		VALVE, DOUBLE LOCK	
			(Earlier versions. No cartridges protrude from block.)	1
19	01-202000		MANIFOLD, RELIEF/ CHECK VALVE	
			(Later versions. Two cartridges protrude from block.)	1
20			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)	
21	10-129200		DECAL, "CAUTION, DO NOT ROTATE . . ." (found on some earlier versions having 96" platform, but no spacer)	1

TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 2)		
PLATE NO. B04.07	**SIMON AERIALS INC.**	NEW 01 DEC., 1994	**PART NO.**

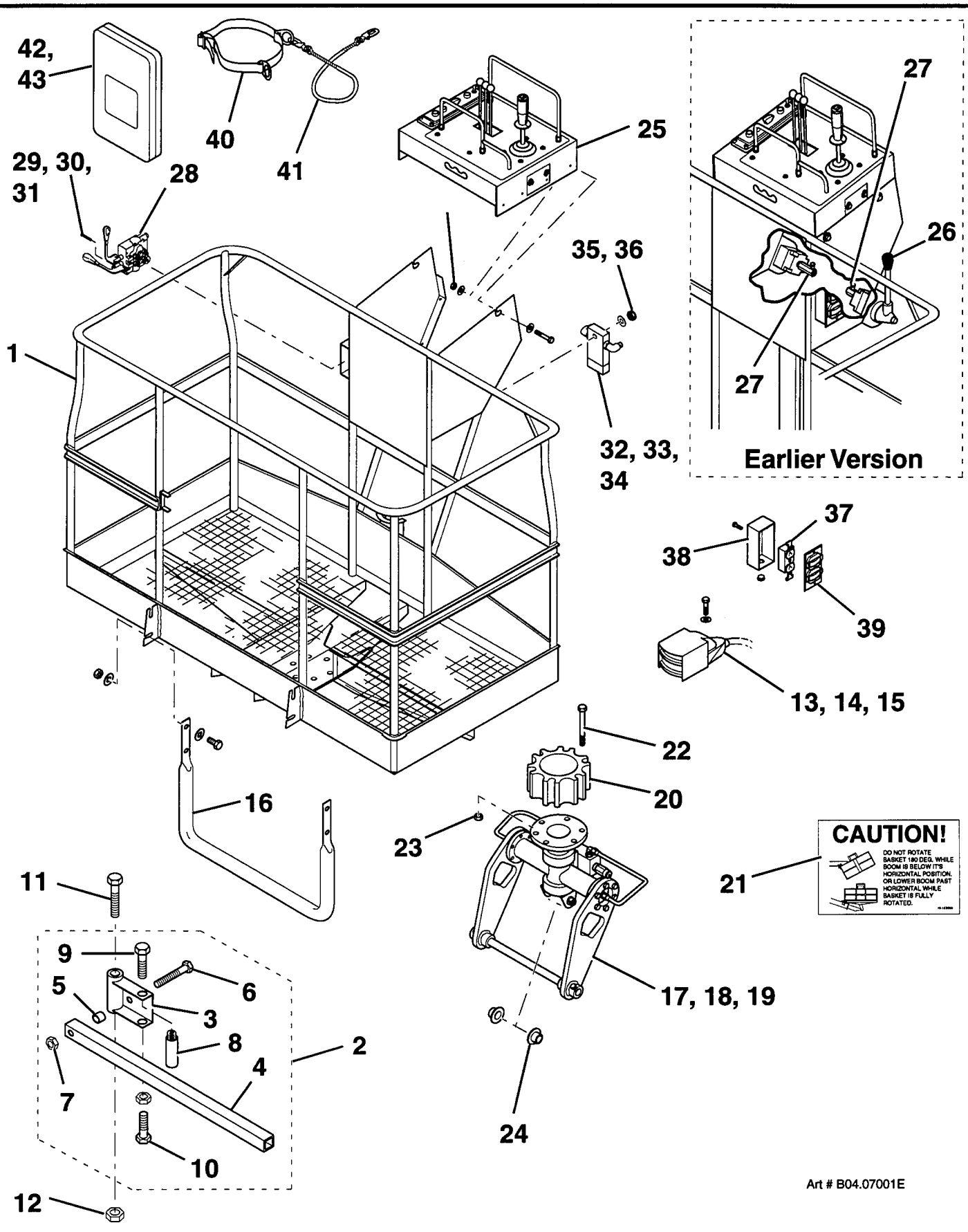


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 2)		
SIMON AERIALS INC.	NEW 01 DEC., 1994	**PART NO.**	**PLATE NO.** B04.07

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
22			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**	
23	07-058400		NUT, LOCK (1/2"-13, Grade 8)	6
24	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
25	See Index . .	C08. - -	PLATFORM CONTROL CONSOLE ASSEMBLY	1
26	See Plate . .	D14. - -	VALVE, 4-WAY MANUAL (Platform level or rotate)	
			(Earlier versions)	2
27	01-018900		VALVE, NEEDLE (#6 SAE Ports)	2
28	See Plate . .	D14. - -	VALVE, PLATFORM LEVEL AND ROTATE (Later versions)	1
29	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
30	07-060014		WASHER, FLAT (1/4", SAE)	2
31	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
32	01-001900		VALVE, CHECK (Pilot operated)	1
33	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	2
34	06-044400		90° ELBOW, STRAIGHT THREAD (4-6 C50X-S)	2
35	07-040015		NUT, HEX (5/16"-18, Grade 5)	2
36	07-065015		WASHER, HELICAL LOCK (5/16")	2
37	03-067000		OUTLET, DUPLEX (20 Amp, 110 Volt AC)	1
38	03-062100		BOX, DUPLEX OUTLET (Weatherproof)	1
39	03-062200		COVER, DUPLEX OUTLET (Weatherproof)	1
40	10-034000		BELT, SAFETY	1
41	10-033900		LANYARD, SAFETY BELT	1
42	11-085200		BOX, TECHNICAL MANUAL STORAGE	1
43	07-029365		SCREW, HEX WASHER HEAD	
			(#12 x 1", Self drilling, with rubber seal)	2
44	10-159100		COVER, CONSOLE CONTROLS (black vinyl) (option)	1
45	10-163800		STUD, BUTTON SNAP (stainless steel)	A.R.
46	07-099300		RIVET, BLIND (1/8" x 1/8", stainless steel)	A.R.
47	Call Simon		HOSE KIT, PLATFORM (Full Hydraulic)	1

TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 2)		
PLATE NO. B04.07	**SIMON AERIALS INC.** NEW 01 DEC., 1994	PART NO.	

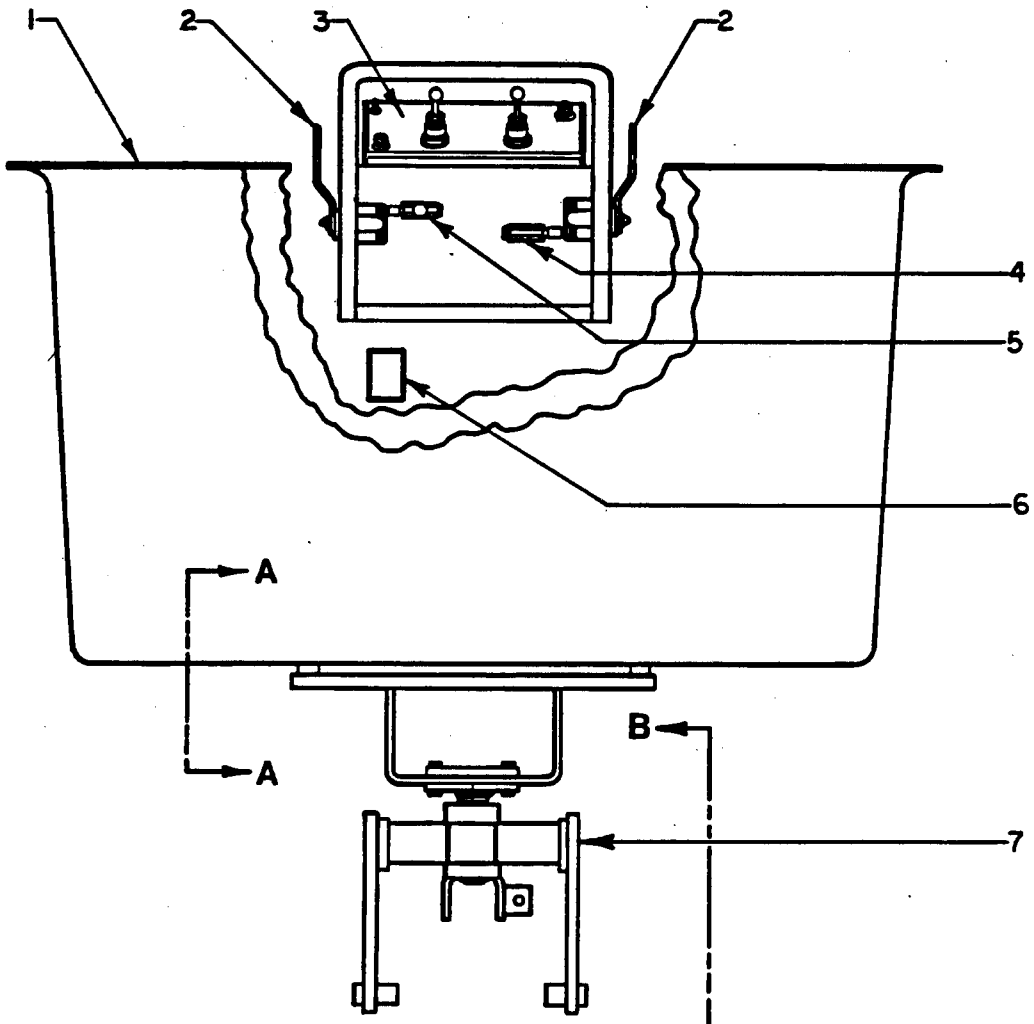


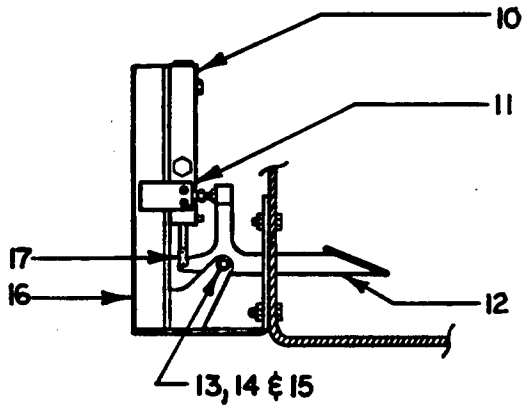
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 2)		
SIMON AERIALS INC. NEW 01 DEC., 1994		PART NO.	PLATE NO. B04.07

PARTS LIST

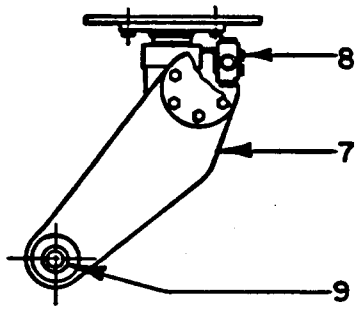
ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SDA-2061164		FIBERGLASS PLATFORM	1
2	01-008000	D14.1	MANUAL VALVE, 4-WAY	2
3	SEE INDEX	C8	PLATFORM CONTROL CONSOLE	1
4	01-020800		CHECK VALVE	1
5	01-018900		NEEDLE VALVE, #6 SAE PORTS	1
6			GEL CELL BATTERY	1
7	02-010600	D24.6	ROTARY ACTUATOR	1
8	01-001900		DOUBLE LOCK VAVLE	1
9	08-002500		SLEEVE BUSHING	2
10	SEE INDEX	D5	HPC VALVE	1
11	03-026600		LIMIT SWITCH	1
12	SCD-2005146		FOOT PEDAL	1
13	SAD-2033893		PIN	1
14	08-047000		SNAP RING	2
15	08-010500		FLANGE BEARING	2
16	SBW-2056920		MOUNTING BRACKET, FOOT PEDAL	1
17	08-010200		LINK ASSEMBLY	1

DESCRIPTION	PART NO.
INSULATED PLATFORM ASSEMLBY	A-D3509849





VIEW 'A'-'A'



VIEW 'B'-'B'

0486/0386

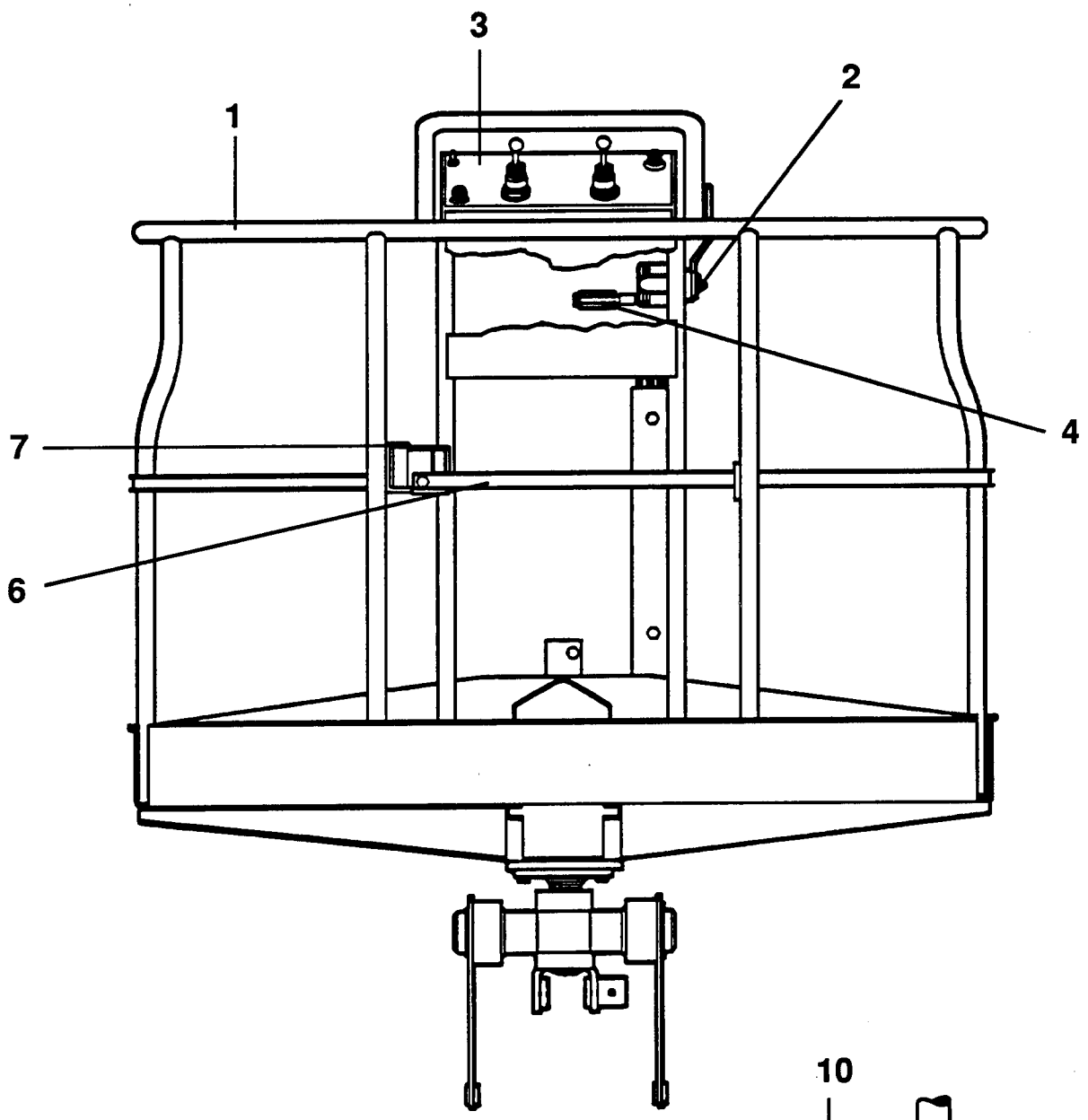
DESCRIPTION	PART NO.
INSULATED PLATFORM ASSEMBLY	A-D3509849

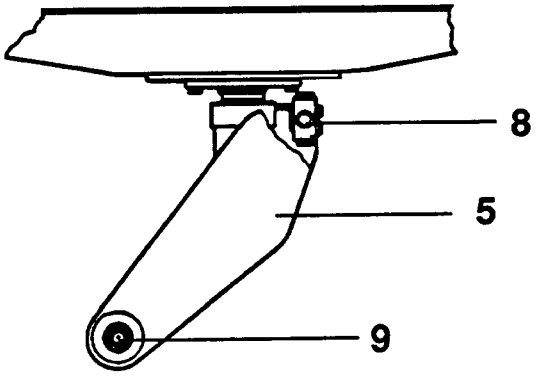
PARTS LIST

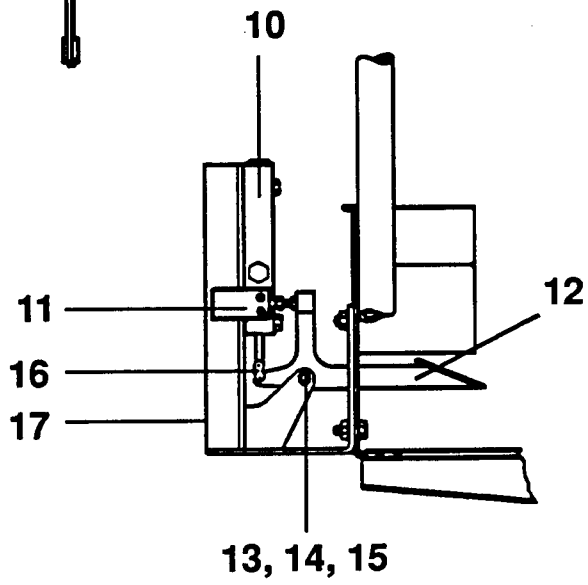
ITEM	PART NUMBER	SEC.	DESCRIPTION	QTY.
1			PLATFORM WELDMENT	1
2	SEE INDEX	D14	4-WAY MANUAL VALVE	1
3	SEE INDEX	C8	PLATFORM CONTROL CONSOLE ASSEMBLY	1
4	01-020800		CHECK VALVE	1
5	SCW 215586		FIXED ROTATOR WELDMENT	1
6	SBD 204166-9		GATE	1
7	08-010100		SPRING	1
8	01-001900		DOUBLE LOCK VALVE	1
9	08-002500		SLEEVE BEARING	2
10	SEE INDEX	D5	HPC VALVE	1
11	03-026600		LIMIT SWITCH	1
12	SCD 200514-6		FOOT PEDAL	1
13	SAD 203389-3		PIN	1
14	08-047000		SNAP RING	2
15	08-010500		FLANGE BEARING	2
16	08-010200		LINK ASSEMBLY	1
17	SBW 205692-0		MOUNTING BRACKET, FOOT PEDAL	1

DESCRIPTION
FIXED PLATFORM ASSEMBLY (HYDRAPORT)

PART NO.







DESCRIPTION	PART NO.
FIXED PLATFORM ASSEMBLY (HYDRAPORT)	

PARTS LIST

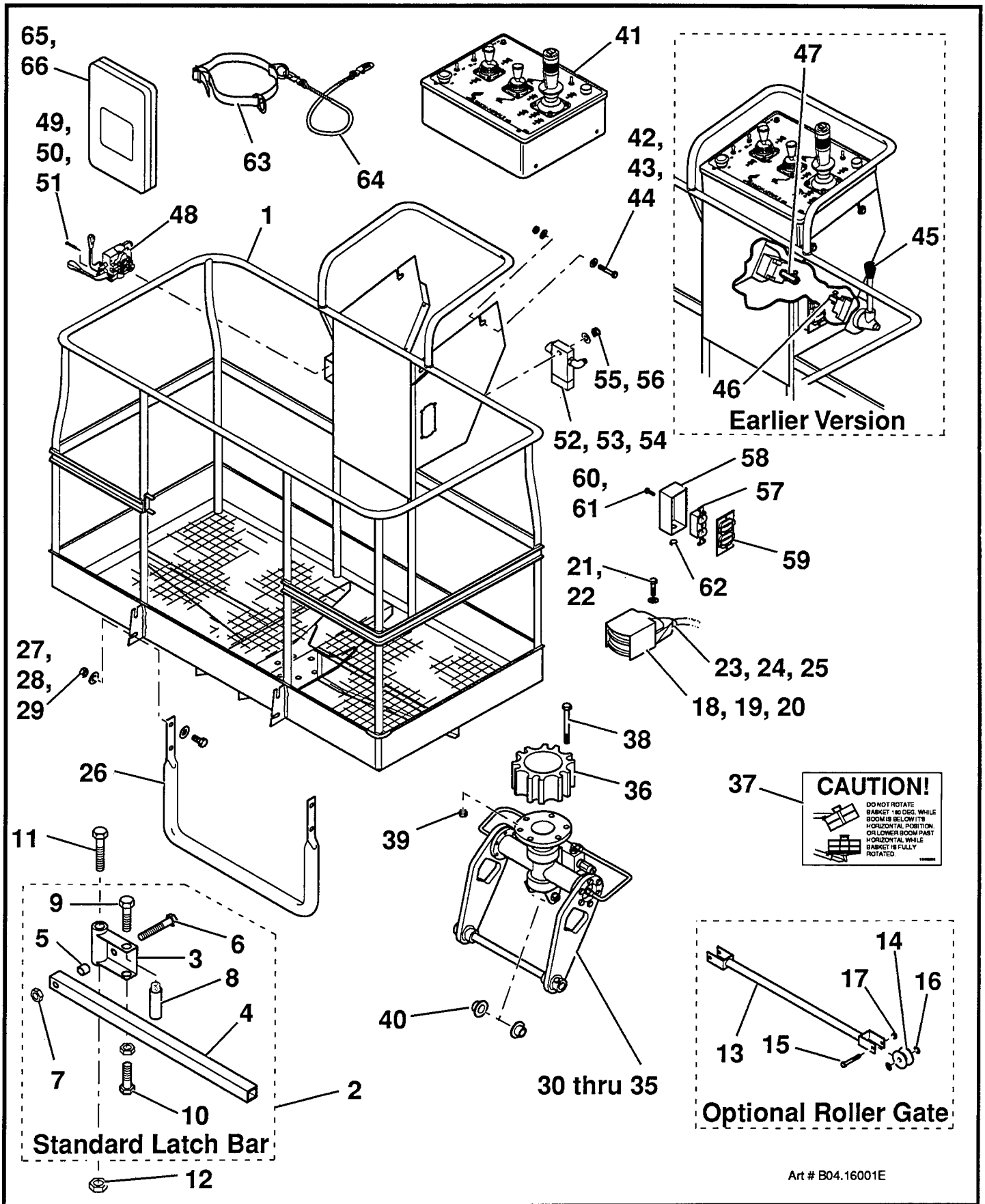
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PLATFORM WELDMENT	
			(Standard type, with Rotary Actuator mounted **under** floor)	1
			For **"Type 2" Electro-Proportional** controls (with 3	
			"Joystick" controls):	
			Earlier style, with Platform Rotate valve on left, and Platform Level valve on right 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

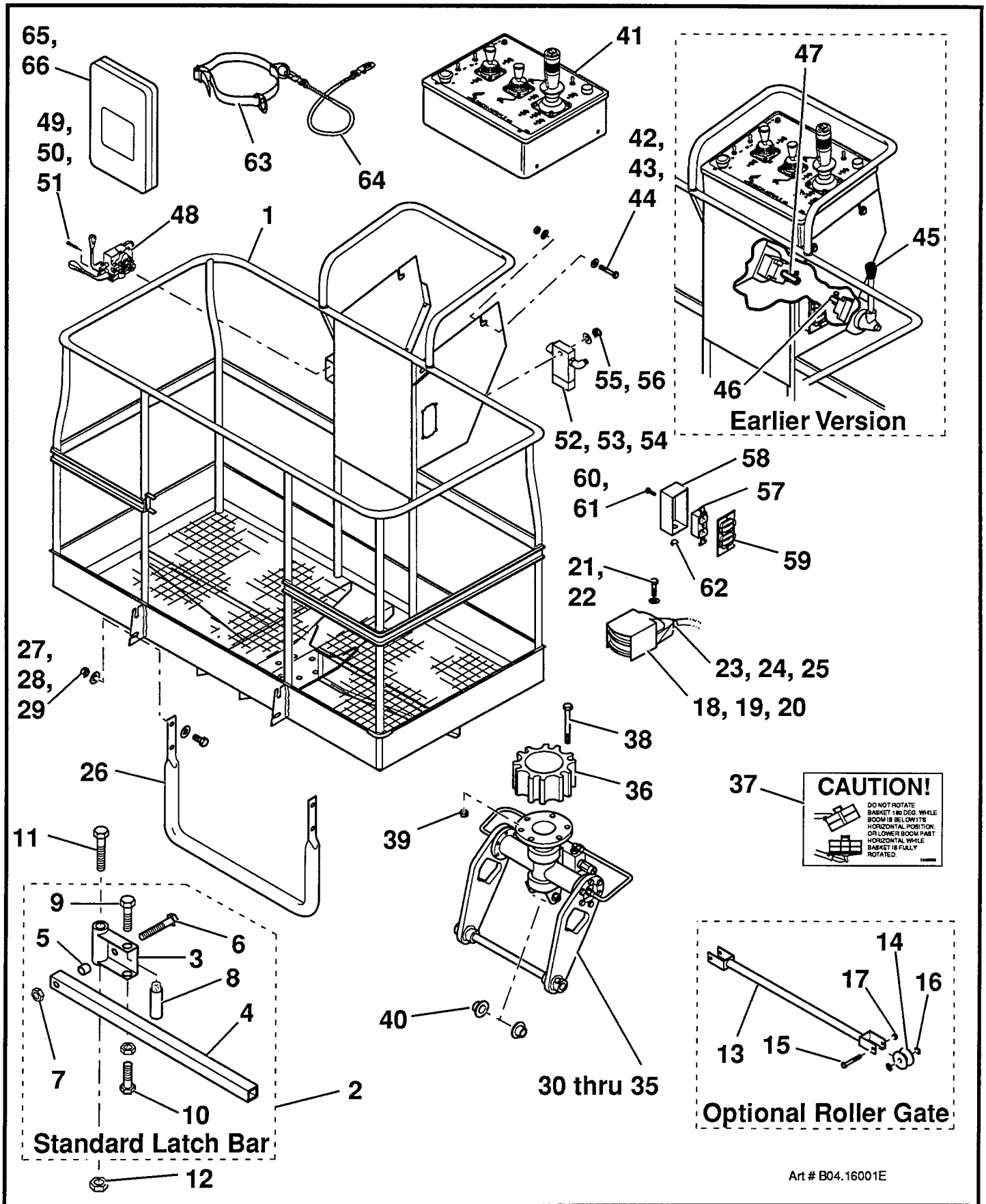
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3)		
SIMON AERIALS INC.	NEW 01 DEC., 1994	PART NO.	PLATE NO. B04.16

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.

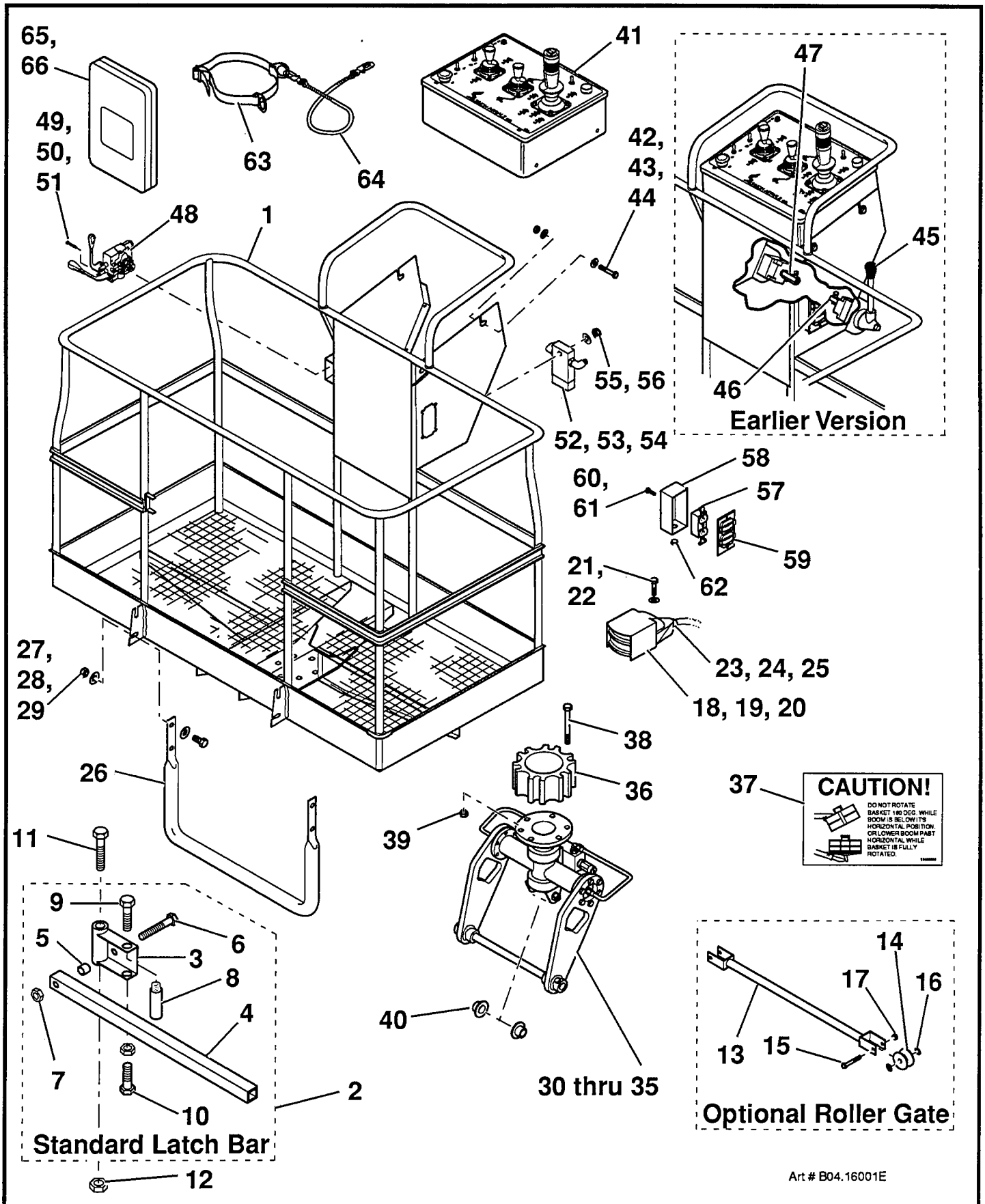


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 3)		
SIMON AERIALS INC. NEW 01 DEC., 1994		PART NO.	PLATE NO. B04.16

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.

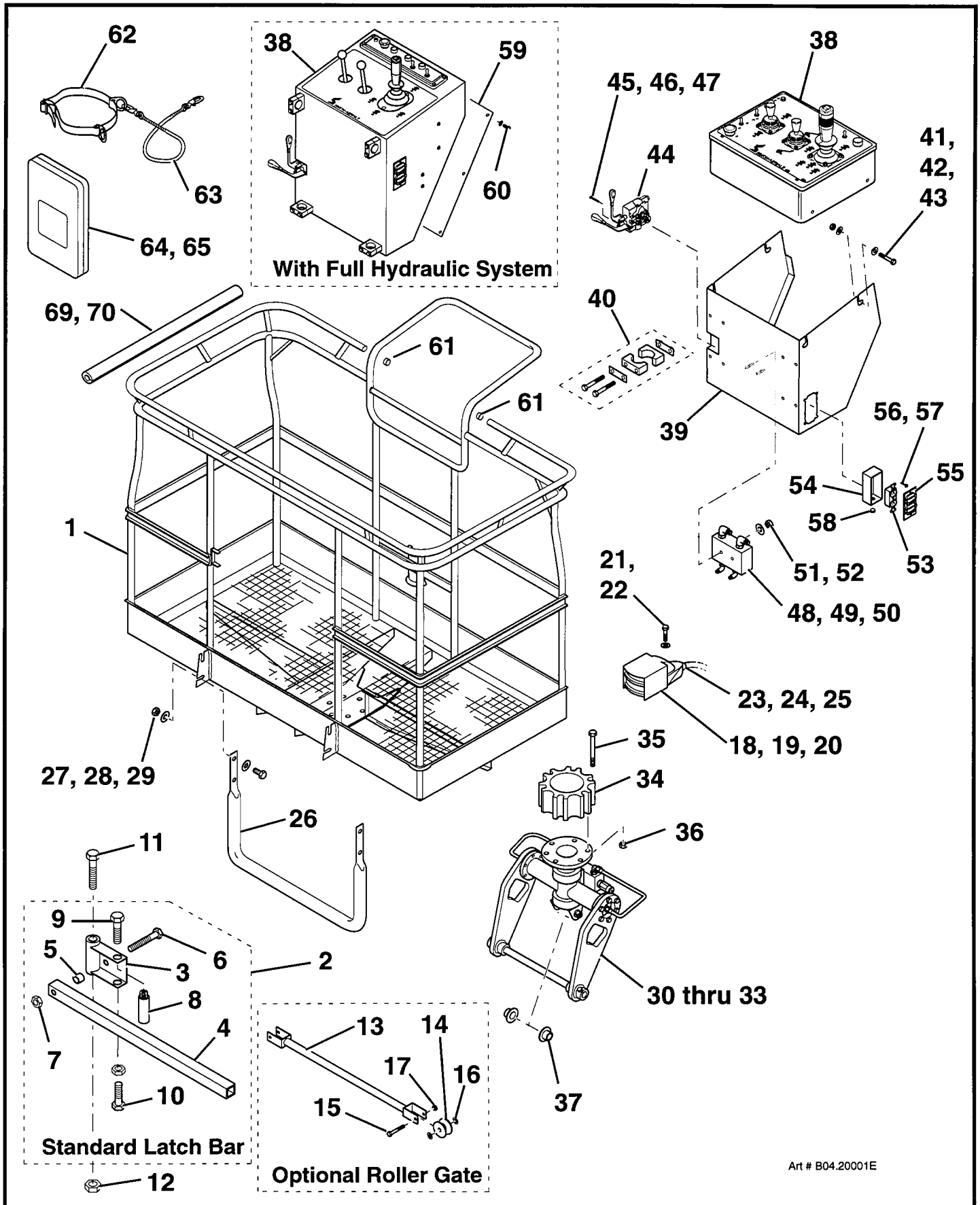


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3)		
SIMON AERIALS INC.	NEW 01 DEC., 1994	PART NO.	PLATE NO. B04.16

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.**

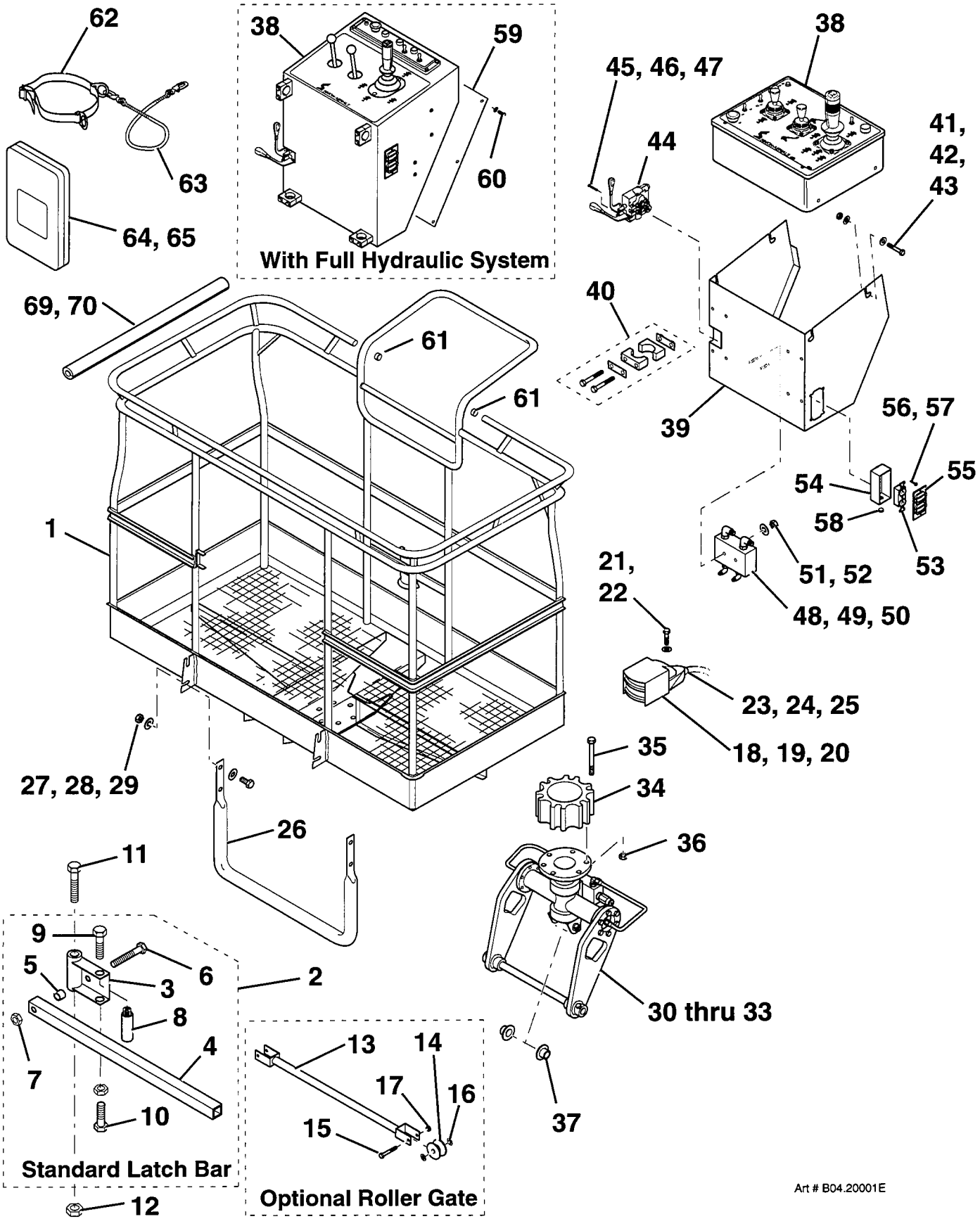


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3)		
SIMON AERIALS INC. REV. 28 FEB., 1995		PART NO.	PLATE NO. B04.20

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.

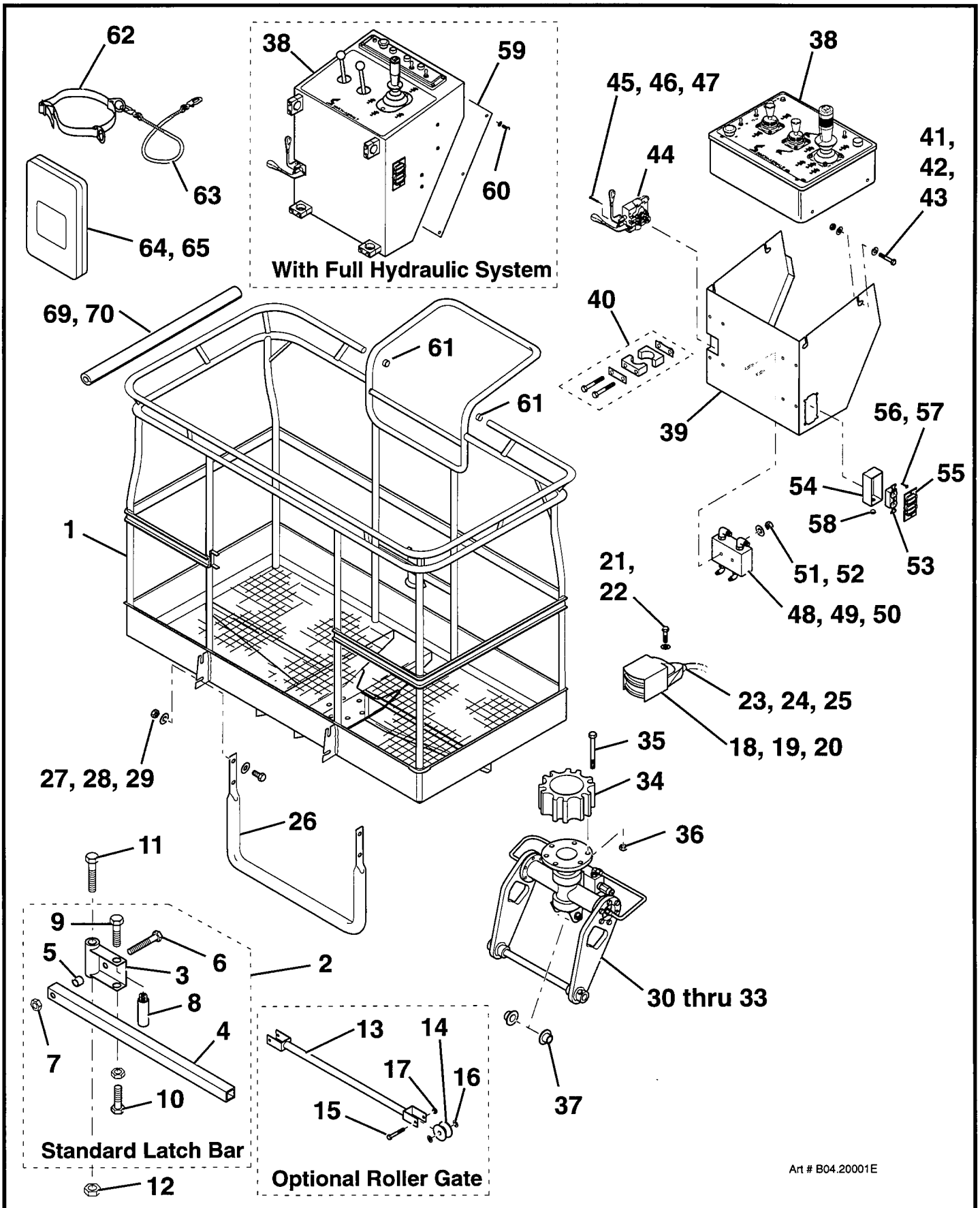


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 3)		
SIMON AERIALS INC. REV. 28 FEB., 1995		PART NO.	PLATE NO. B04.20

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.

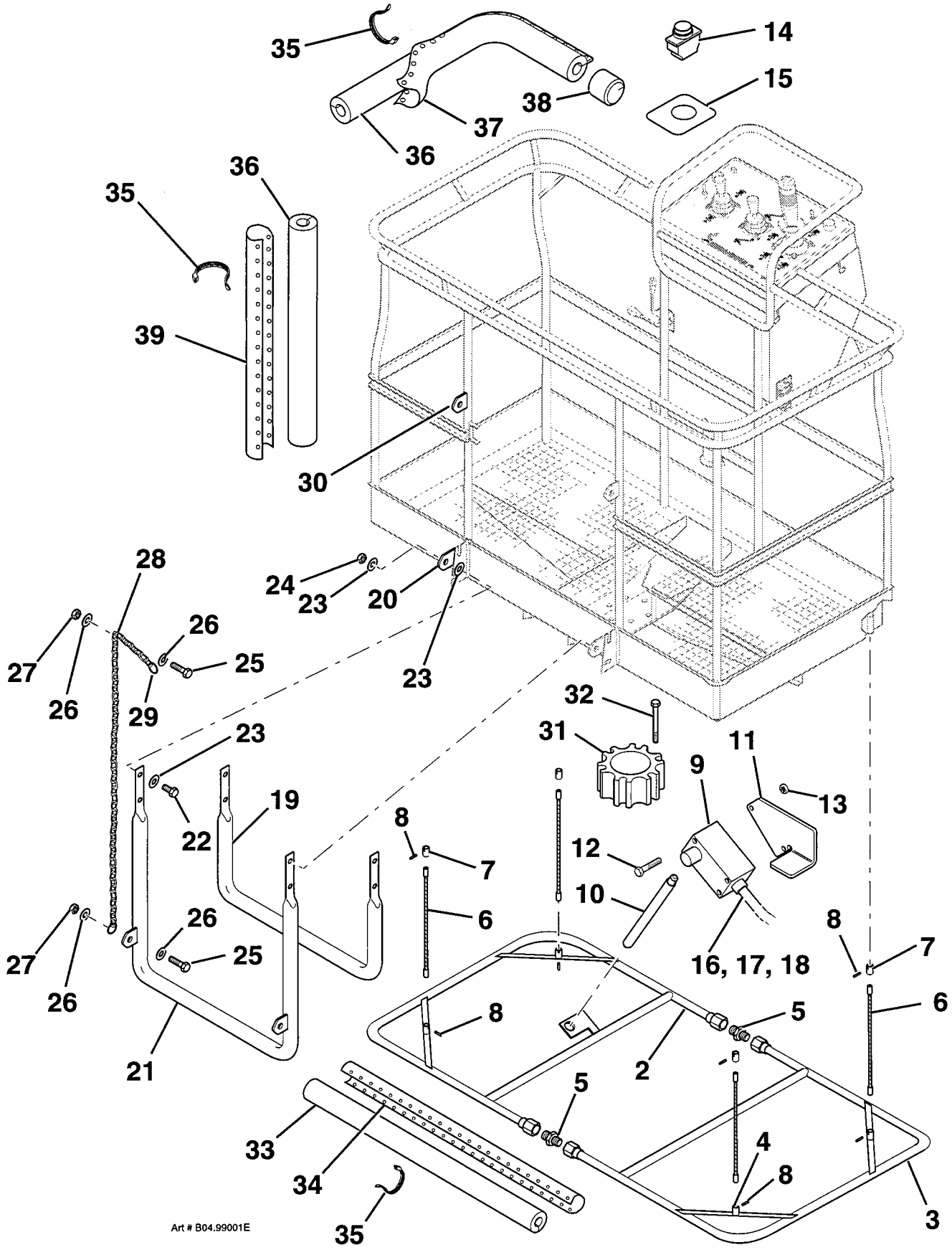


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 28 FEB., 1995	PART NO.	PLATE NO. B04.20

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			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.

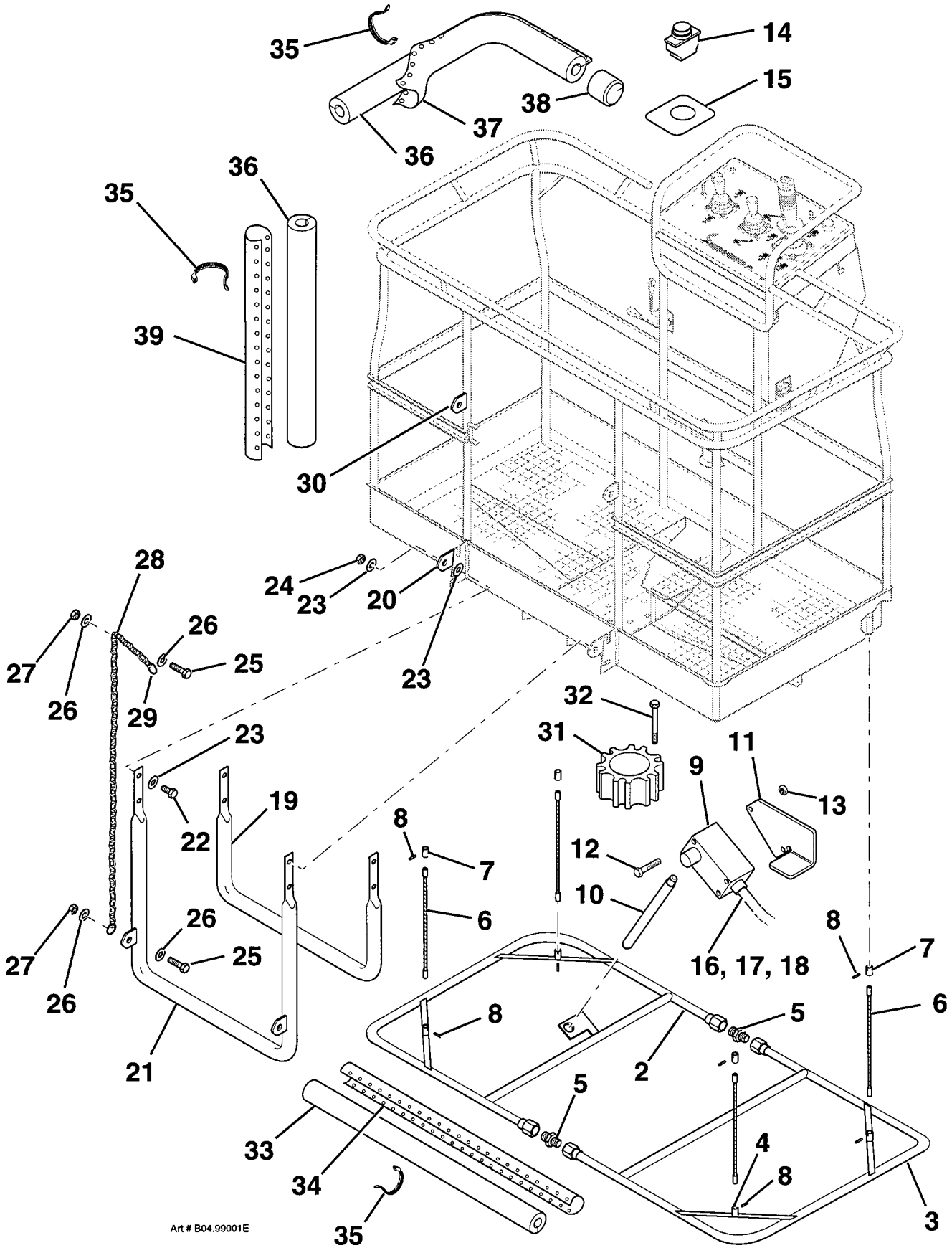


TITLE	PLATFORM SENSOR RING ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC. NEW 23 MAR., 1995		**PART NO.**	**PLATE NO.** B04.99

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.

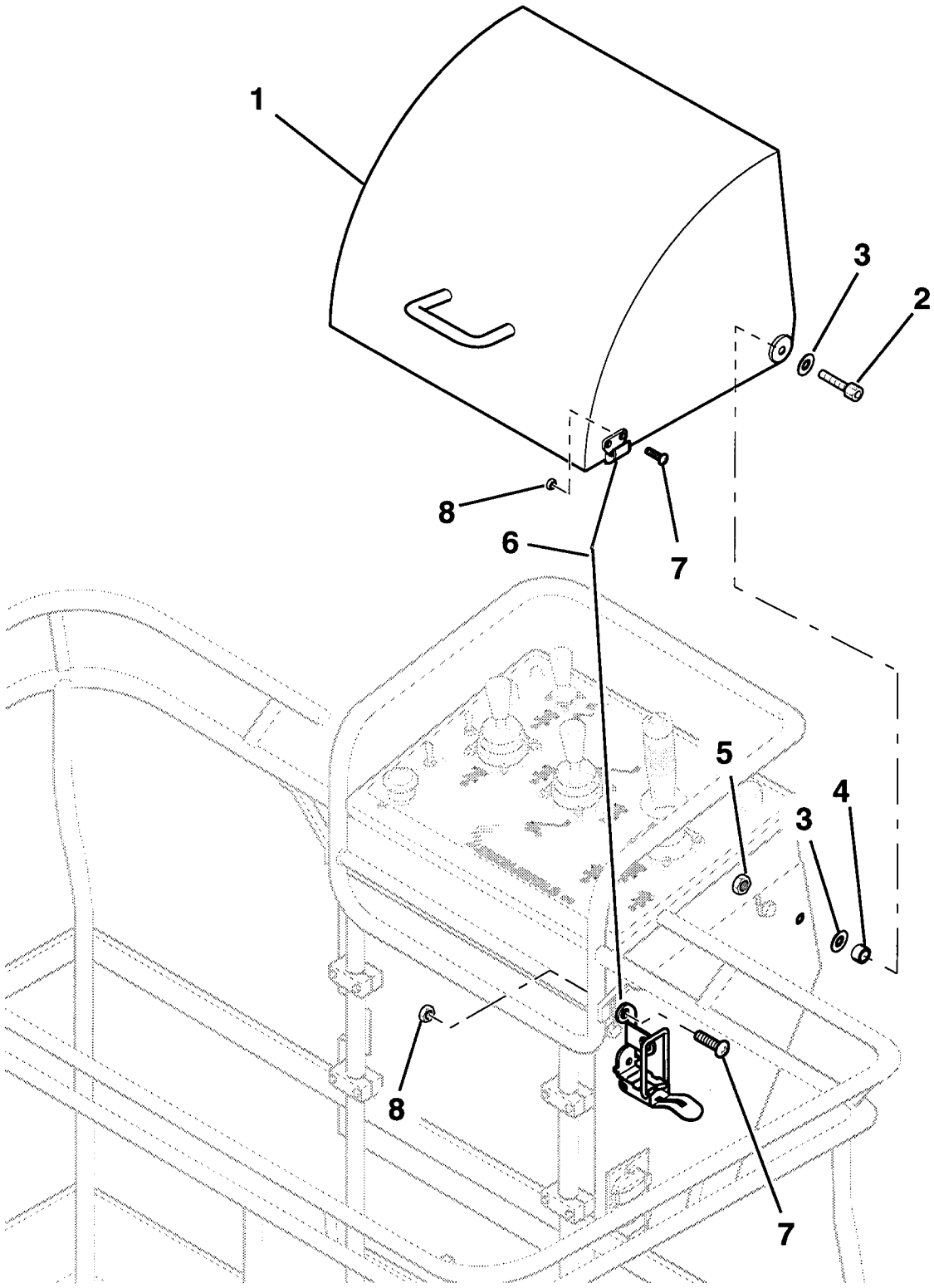


TITLE	PLATFORM SENSOR RING ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC.	NEW 23 MAR., 1995	PART NO.	PLATE NO. B04.99

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
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



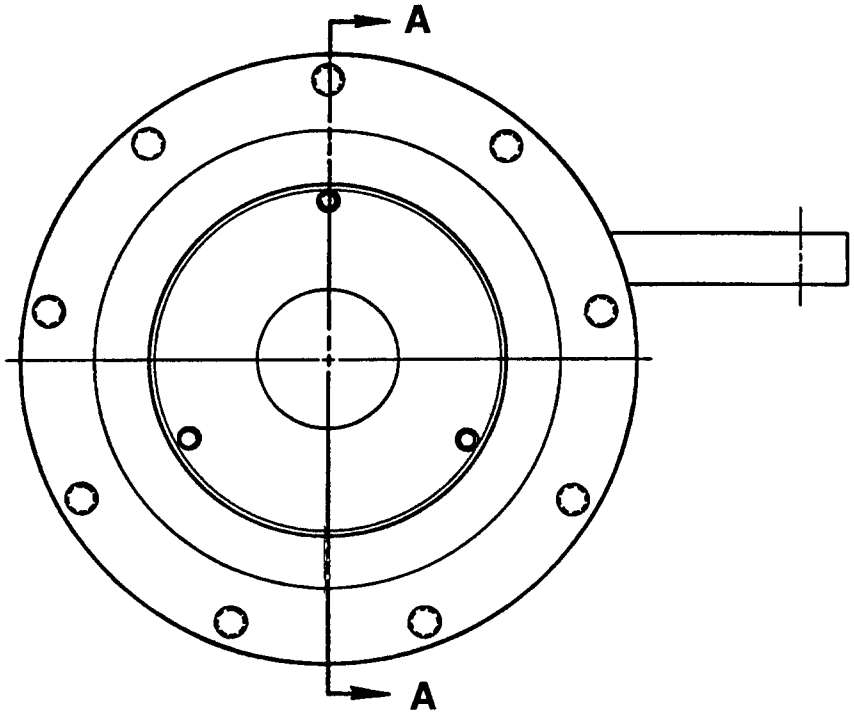
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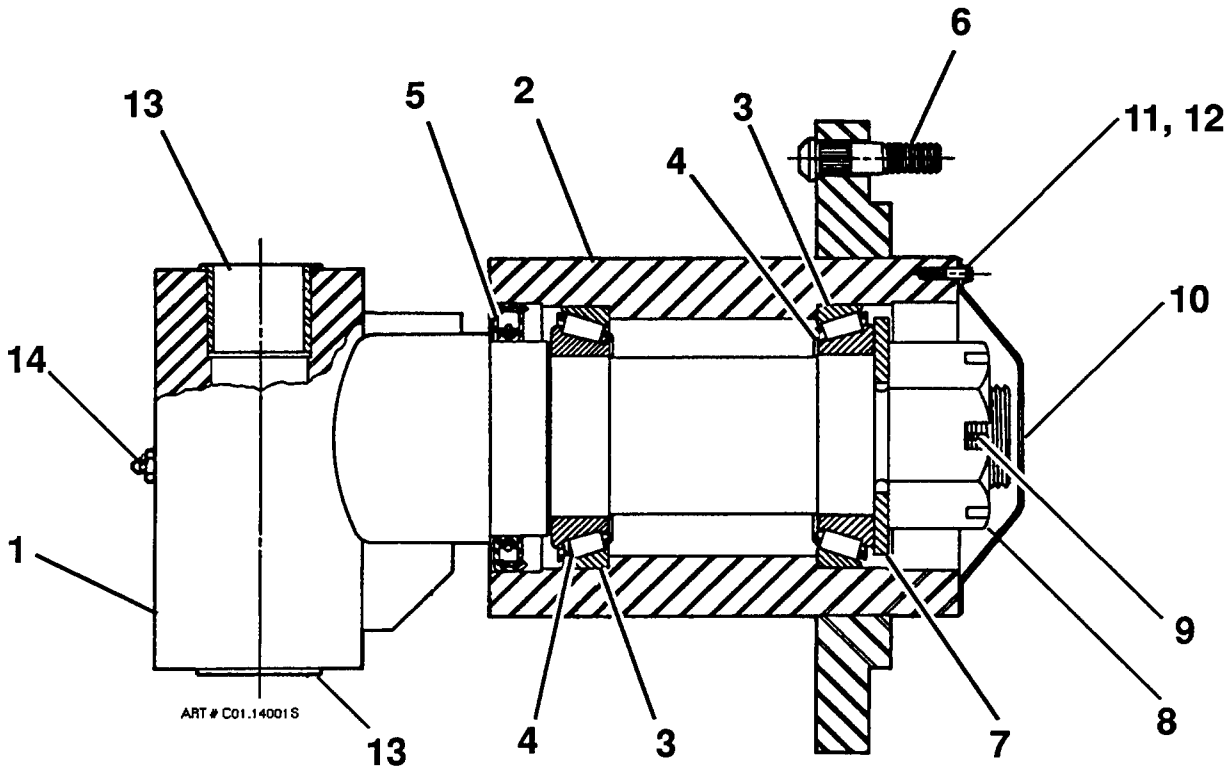
TITLE	PLATFORM CONSOLE COVER ASSEMBLY, MP/ RP SERIES		
SIMON AERIALS INC.	REV. 27 OCT., 1994	PART NO. 2326440	PLATE NO. B04.299

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SPINDLE ASSEMBLY (Right)	1
	2061847		Type 1 (see note at item 1)	1
	3502495		Type 2 (see note at item 1)	1
			Note: the **"Type 1"** or **"Type 2"** spindle is original equipment on:	
			all Model MPN 55 and MPN 60, earlier Model MP 50, all Model MP 60 and MP 70, and earlier Model MP 80 (serial numbers under AEA 01427).	
			On a **"Type 1"** or **"Type 2"** spindle, the seal (item 5) has an outside diameter of 4-1/2" (114 mm).	
1	2024390		SPINDLE (Right) (Type 1)	1
			Note: the **"Type 1"** spindle consists of three pieces (spindle, pin tube and steering arm) welded together.	
	2070702		SPINDLE (Right) (Type 2)	1
			Note: the **"Type 2"** spindle consists of two pieces welded together (pin housing and spindle are machined from one block of metal, with steering arm welded to it).	
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	08-002000		BEARING, FLANGED (used prior to September 1984)	
			(1-1/2" I.D., 1-3/4" O.D., 1-1/2" long, 2" dia. x 3/32" flange)	2
	08-014000		BEARING SLEEVE (used beginning September 1984)	
			(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. C01.05	**SIMON AERIALS INC.**	REV. 12 MAR., 1993	PART NO.





SECTION "A" - "A"

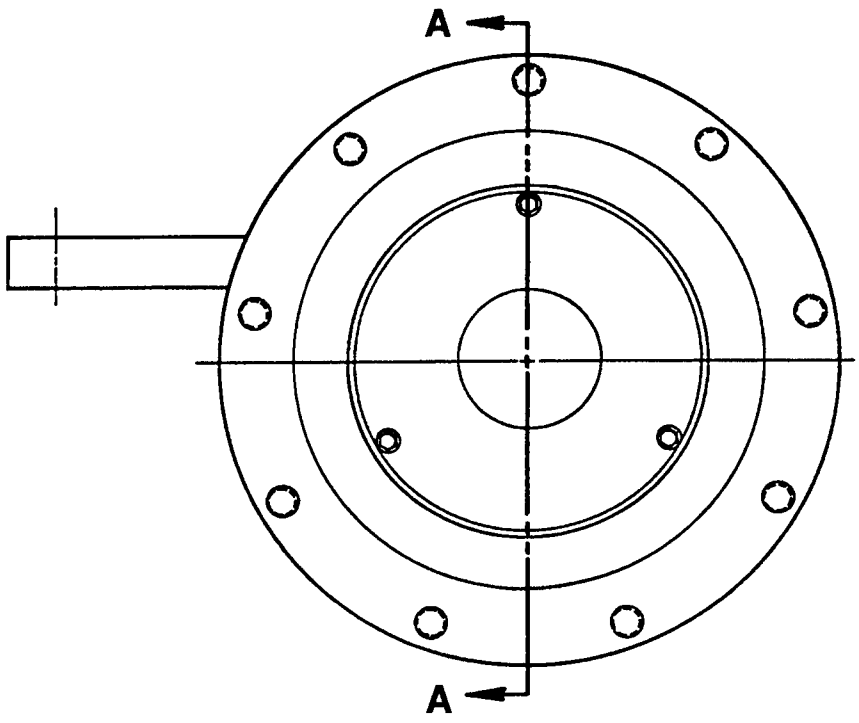
TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
SIMON AERIALS INC. REV. 12 MAR., 1993		PART NO.	PLATE NO. C01.05

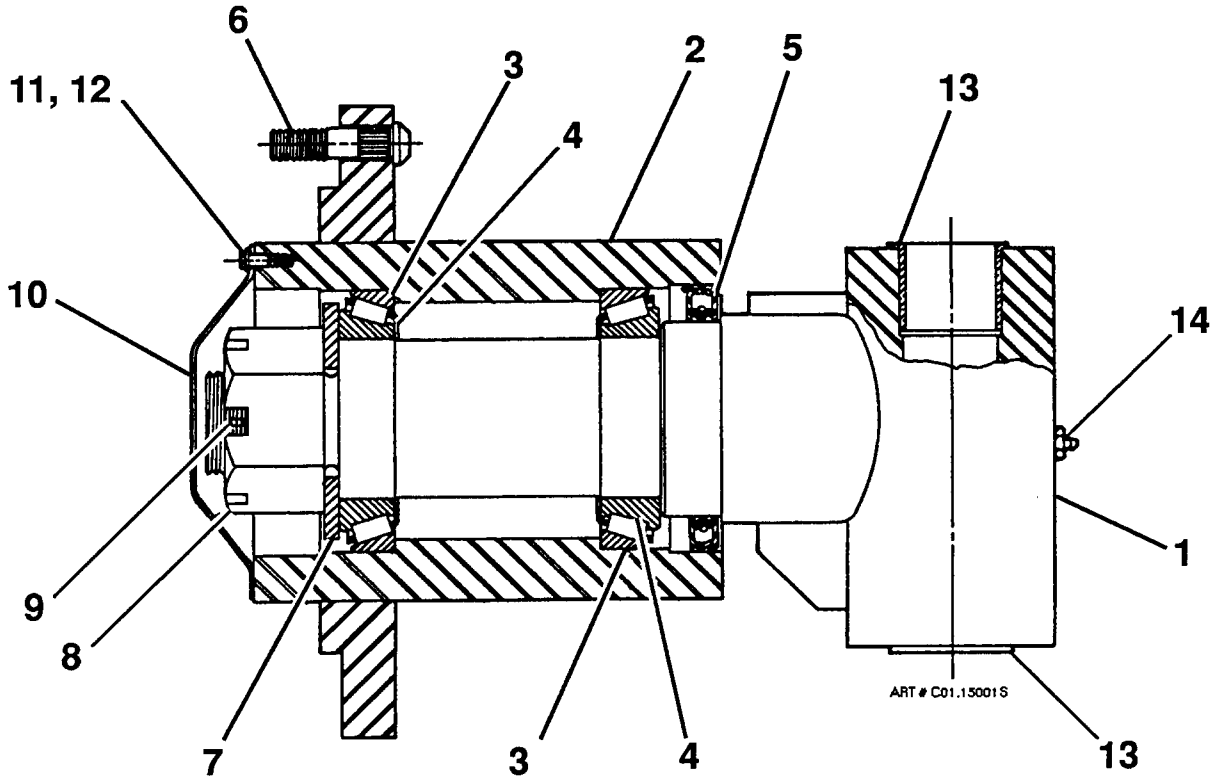
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SPINDLE ASSEMBLY (Left)	1
	2061834		Type 1 (see note at item 1)	1
	3503089		Type 2 (see note at item 1)	1
			Note: the **"Type 1"** or **"Type 2"** spindle is original equipment on:	
			all Model MPN 55 and MPN 60,	
			earlier Model MP 50,	
			all Model MP 60 and MP 70, and	
			earlier Model MP 80 (serial numbers under AEA 01427).	
			On a **"Type 1"** or **"Type 2"** spindle, the seal (item 5) has an outside diameter of 4-1/2" (114 mm).	
1	2024408		SPINDLE (Left) (Type 1)	1
			Note: the **"Type 1"** spindle consists of three pieces (spindle, pin tube and steering arm) welded together.	
	2070711		SPINDLE (Left) (Type 2)	1
			Note: the **"Type 2"** spindle consists of two pieces welded together (pin housing and spindle are machined from one block of metal, with steering arm welded to it).	
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	08-002000		BEARING, FLANGED (used prior to September 1984)	
			(1-1/2" I.D., 1-3/4" O.D., 1-1/2" long; 2" dia. x 3/32" flange)	2
	08-014000		BEARING SLEEVE (used beginning September 1984)	
			(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. C01.06 | **SIMON AERIALS INC.** REV. 12 MAR., 1993 | PART NO.





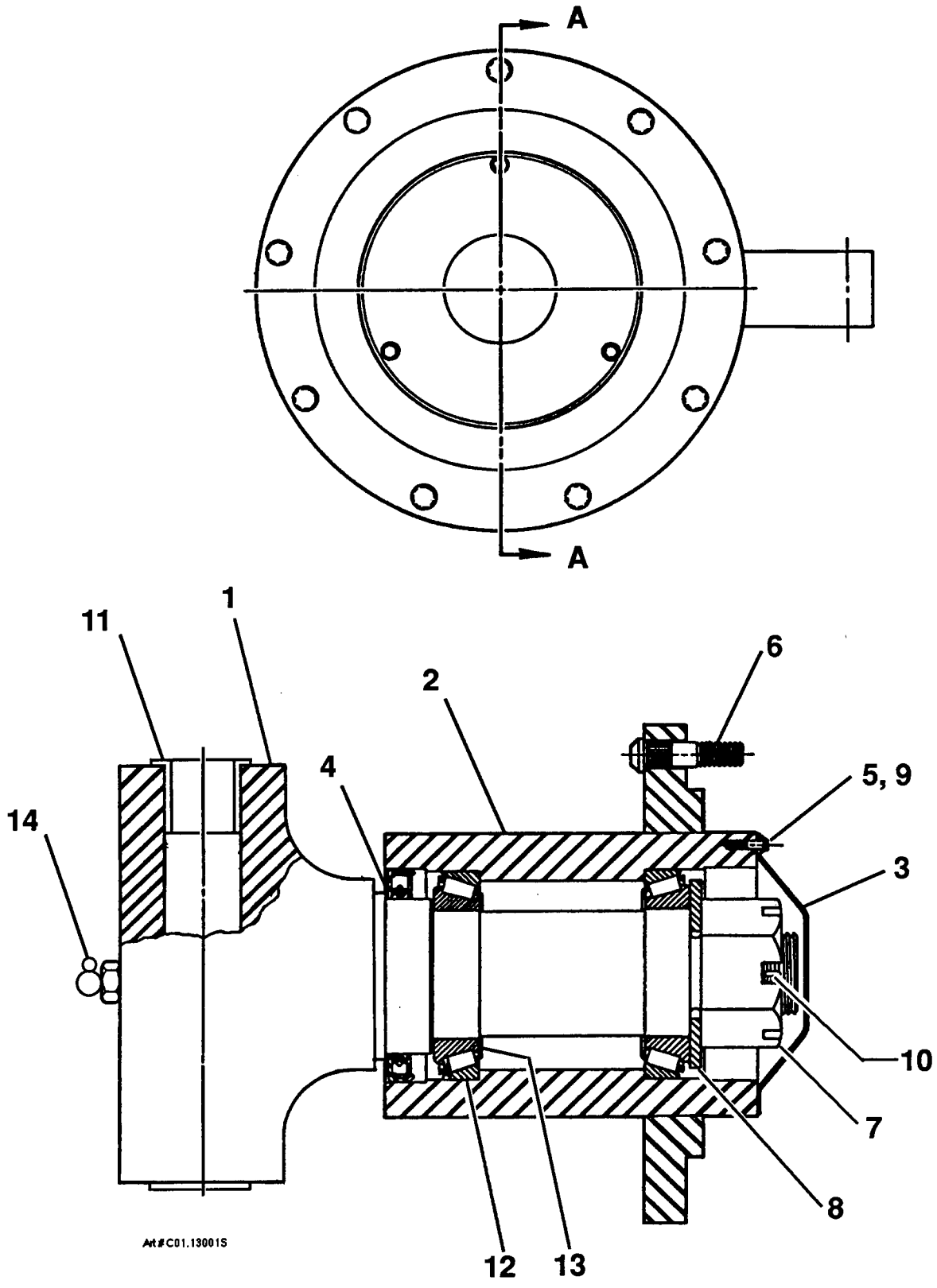
SECTION "A" - "A"

TITLE	SPINDLE ASSEMBLY, LEFT HAND		
SIMON AERIALS INC. REV. 12 MAR., 1993		PART NO.	PLATE NO. C01.06

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	2097952		SPINDLE ASSEMBLY (left and right) (Type 1, without bushings or grease fitting) (order Type 2)	2
	3509869		SPINDLE ASSEMBLY (left and right) (Type 2, with bushings and grease fitting)	2
1	2090775		SPINDLE	1
2	2026457		HUB, SPINDLE (for Type 1 assembly)	1
	2022585		HUB, SPINDLE (for Type 2 assembly)	1
3	2021131		PLATE, SPINDLE END COVER	1
4	01-030700		SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.)	1
5	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
6	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
7	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
8	07-062027		WASHER, FLAT (1-3/4")	1
9	07-065014		WASHER, HELICAL LOCK (1/4")	3
10	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
11	08-014000		BEARING, SLEEVE (1-1/2" I.D., 1-3/4" O.D., 1-1/2" long) (for Type 2 assembly only)	2
12	08-003400		CUP, BEARING (4.437" O.D.)	2
13	08-003500		CONE, ROLLER BEARING (2.750" I.D.)	2
14	08-051300		FITTING, GREASE (1/8", 90°) (for Type 2 assembly only)	1

TITLE	SPINDLE ASSEMBLY, RIGHT AND LEFT HAND	
PLATE NO. C01.13	**SIMON AERIALS INC.** REV. 10/24/91	PART NO.



Section "A-A"

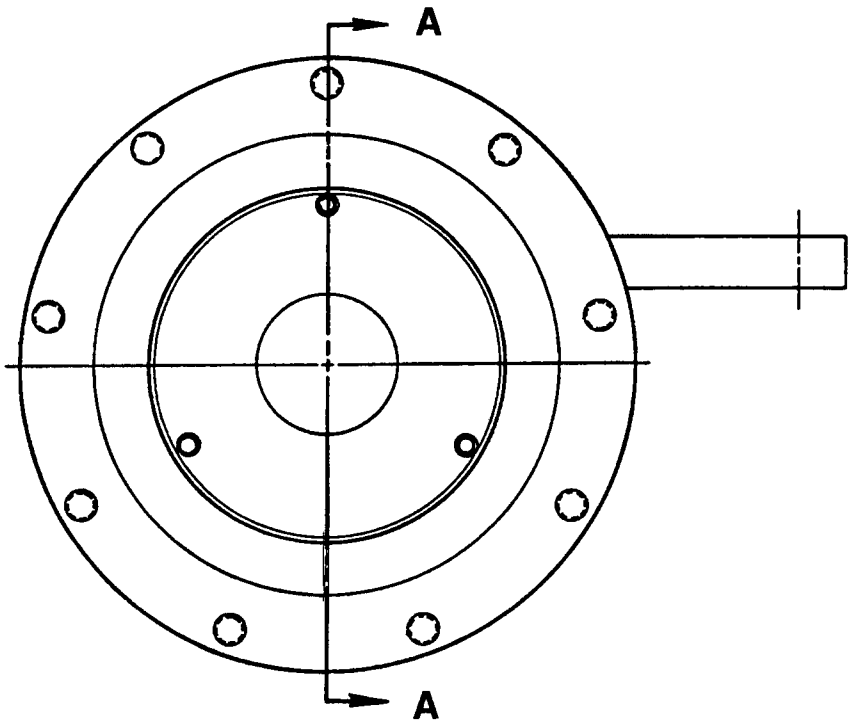
TITLE	SPINDLE ASSEMBLY, RIGHT AND LEFT HAND		
SIMON AERIALS INC. REV. 10/24/91		PART NO.	PLATE NO. C01.13

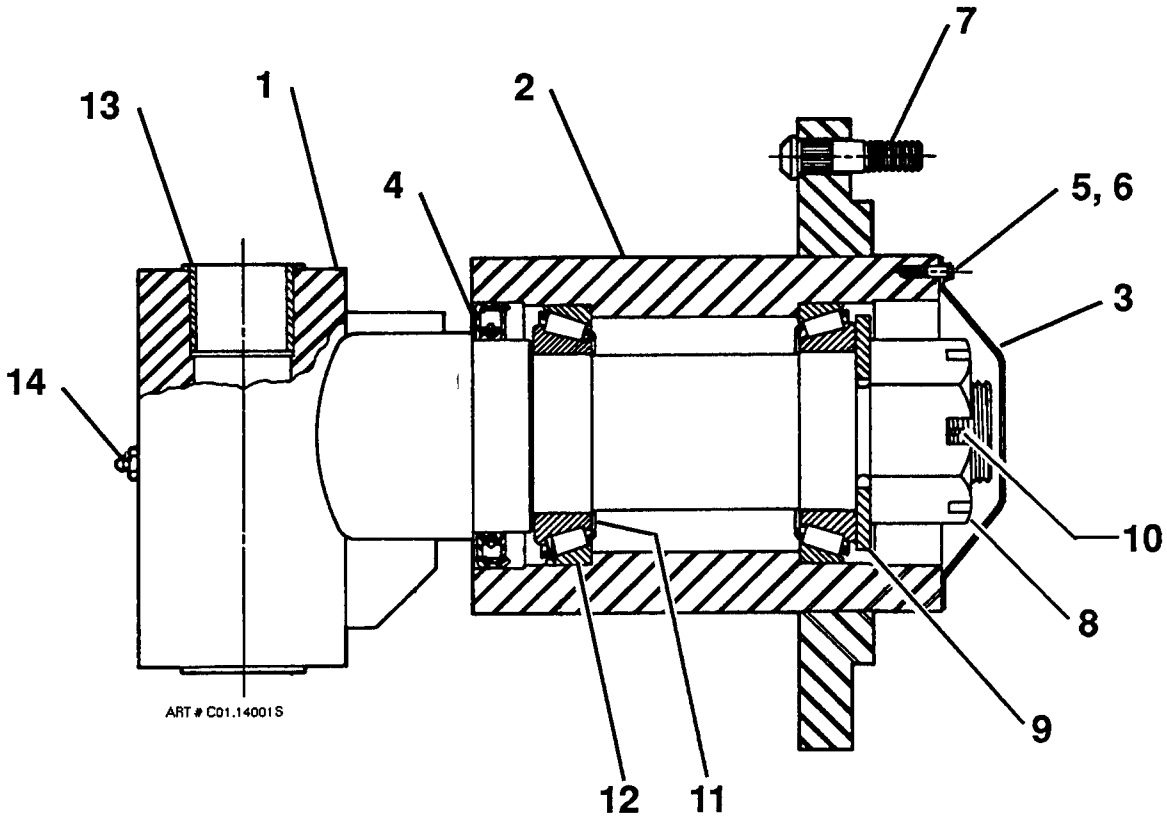
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2020702		SPINDLE (Right hand)	1
2	2022585		HUB, SPINDLE	1
3	01-030700		SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.)	1
4	2021131		PLATE, SPINDLE END COVER	1
5	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
6	07-065014		WASHER, HELICAL LOCK (1/4")	3
7	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
8	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
9	07-062027		WASHER, FLAT (1-3/4")	1
10	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
11	08-003500		CONE, ROLLER BEARING (2.750" I.D.)	2
12	08-003400		CUP, BEARING (4.437" O.D.)	2
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

TITLE: SPINDLE ASSEMBLY, RIGHT HAND

PLATE NO. C01.14 | **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. 3502495





Section "A-A"

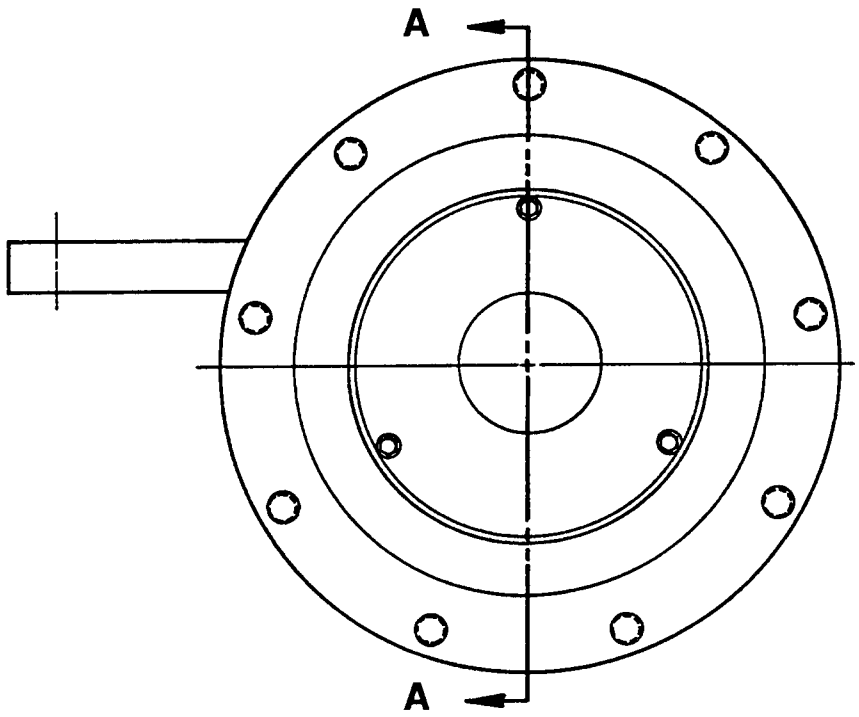
TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
SIMON AERIALS INC. REV. 10/01/90	PART NO. 3502495	PLATE NO. C01.14	

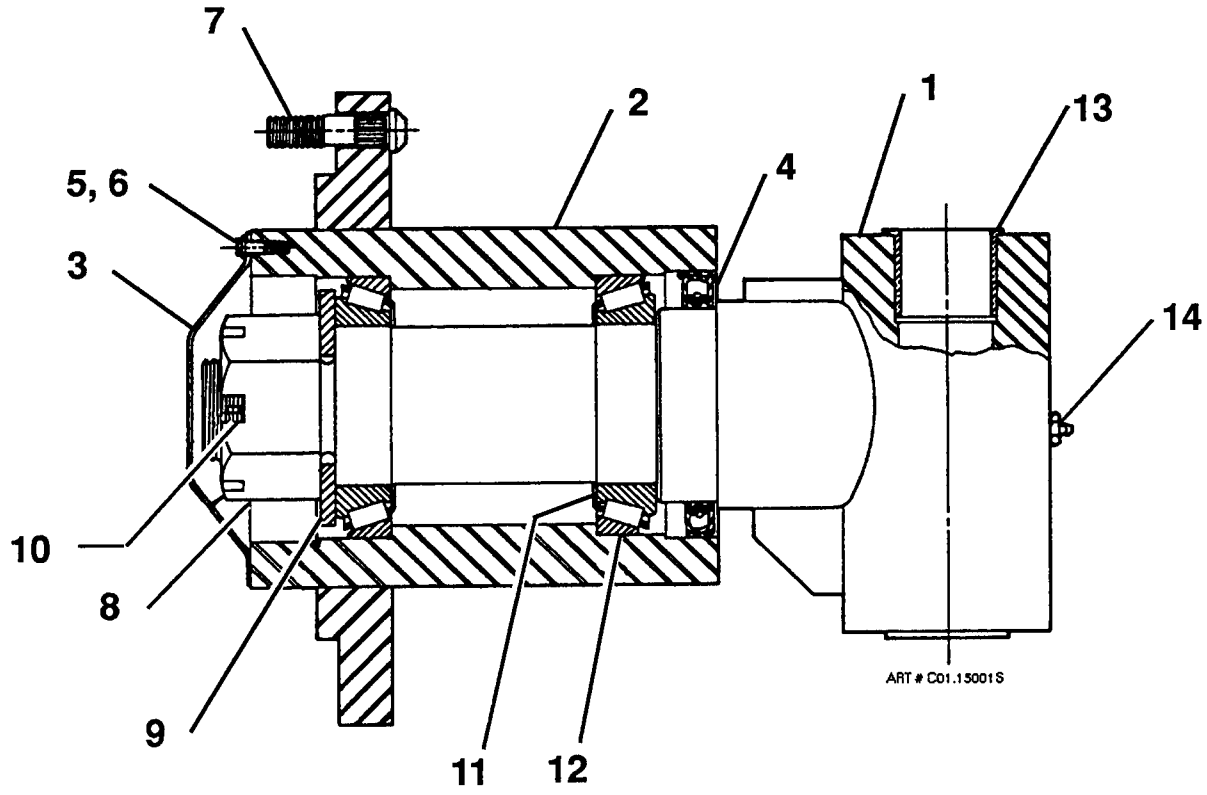
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2020711		SPINDLE (Left hand)	1
2	2022585		HUB, SPINDLE	1
3	01-030700		SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.)	1
4	2021131		PLATE, SPINDLE END COVER	1
5	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
6	07-065014		WASHER, HELICAL LOCK (1/4")	3
7	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
8	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
9	07-062027		WASHER, FLAT (1-3/4")	1
10	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
11	08-003500		CONE, ROLLER BEARING (2.750" I.D.)	2
12	08-003400		CUP, BEARING (4.437" O.D.)	2
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

TITLE: SPINDLE ASSEMBLY, LEFT HAND

PLATE NO. C01.15 | **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. 3503089





Section "A-A"

TITLE	SPINDLE ASSEMBLY, LEFT HAND		
SIMON AERIALS INC. REV. 10/01/90		PART NO. 3503089	PLATE NO. C01.15

PARTS LIST

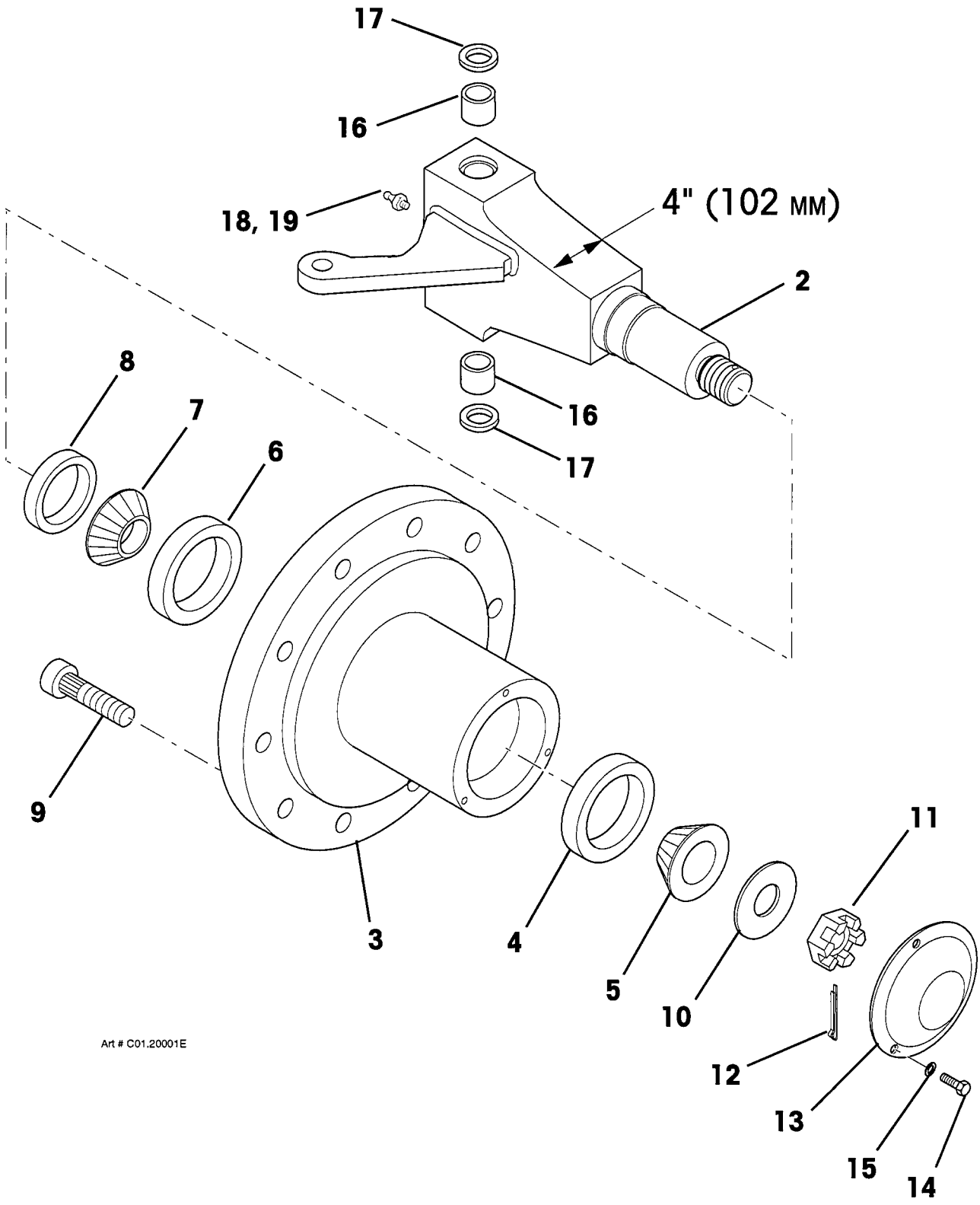
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			SPINDLE ASSEMBLY (Right)	1
	352 9910		Standard type, with **no seals** at spindle pin	
	354 4060		Optional type, **with seals** at spindle pin	
			SPINDLE ASSEMBLY (Left)	1
	352 9920		Standard type, with **no seals** at spindle pin	
	354 4070		Optional type, **with seals** at spindle pin	
			Note: this spindle is original equipment on model MP 80 with serial numbers AEA 01427 and up, and later versions of MPH 60,	
			MPN 60, MP 60Z, and MP 70. The spindle **assembly** can also be used as a replacement on earlier units; however, the **components** of the earlier spindle are different.	
			To identify this style of spindle, measure the seal (item 7), which has an outside diameter of 5" (127 mm). The distance from the	
			spindle pin centerline to the end of the threads is 14.5" (36.8 cm). The width of the spindle weldment (see illustration) is 4" (102mm). The inner bearing has a larger diameter than the outer bearing.	
			Refer to Parts Plates C01.05 and C01.06, or C01.14 and C01.15 for **components** of the earlier spindles.	
2			SPINDLE (Right)	1
	219 8570		Standard type (**no counterbore** for seals at spindle pin)	
	235 0700		Optional type (**with counterbore** for seals at spindle pin)	
			SPINDLE (Left)	1
	219 8580		Standard type (**no counterbore** for seals at spindle pin)	
	235 0690		Optional type (**with counterbore** for seals at spindle pin)	
3	219 7900		HUB, SPINDLE	1
4	08-003400		CUP, BEARING (Outer) (4.437" [113 mm] O.D.)	1
5	08-003500		CONE AND ROLLER, BEARING (Outer) (2.750" [70 mm] I.D.)	1
6	08-070500		CUP, BEARING (Inner) (5.000" [127 mm] O.D.)	1
7	08-070600		CONE AND ROLLER, BEARING (Inner) (3.000" [76 mm] I.D.)	1
8	01-217500		SEAL, SHAFT OIL (3-3/4" [95 mm] I.D., 5" [127 mm] O.D.)	1

TITLE

SPINDLE ASSEMBLY, RIGHT AND LEFT HAND

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
C01.	19	01	A	14 FEB., 1997	

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.
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

SPINDLE ASSEMBLY, RIGHT AND LEFT HAND

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	A	14 FEB., 1997	C01.	19	01

PARTS LIST

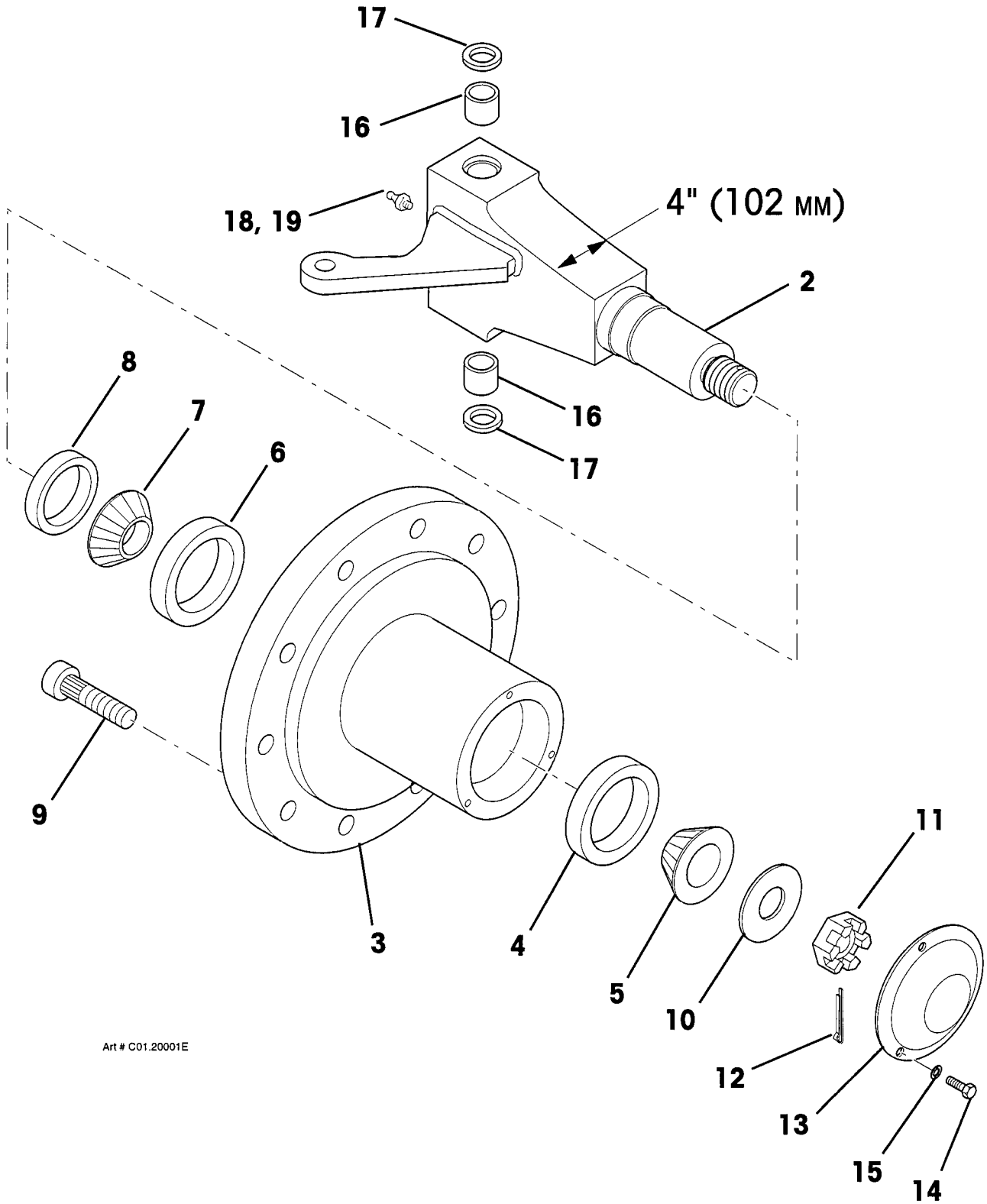
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SPINDLE ASSEMBLY (continued)	
9	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
10	07-062027		WASHER, FLAT (1-3/4")	1
11	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
12	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
13	202 1131		PLATE, SPINDLE END COVER	1
14	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
15	07-065014		WASHER, HELICAL LOCK (1/4")	3
16	08-014000		BEARING, SLEEVE (1-1/2" [38 mm] I.D., 1-3/4" [44.5 mm] O.D., 1-1/2" [38 mm] long)	2
17	10-164100		SEAL, SPINDLE PIN OIL (With option. Fits counterbored spindle, see Item 1) (1-1/2" [38 mm] I.D., 2" [51 mm] O.D.)	2
18	08-051300		FITTING, GREASE (1/8", 90°)	1
19	08-066300		CAP, GREASE FITTING (White plastic)	1

TITLE

SPINDLE ASSEMBLY, RIGHT AND LEFT HAND

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
C01.	19	02	A	14 FEB., 1997	

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



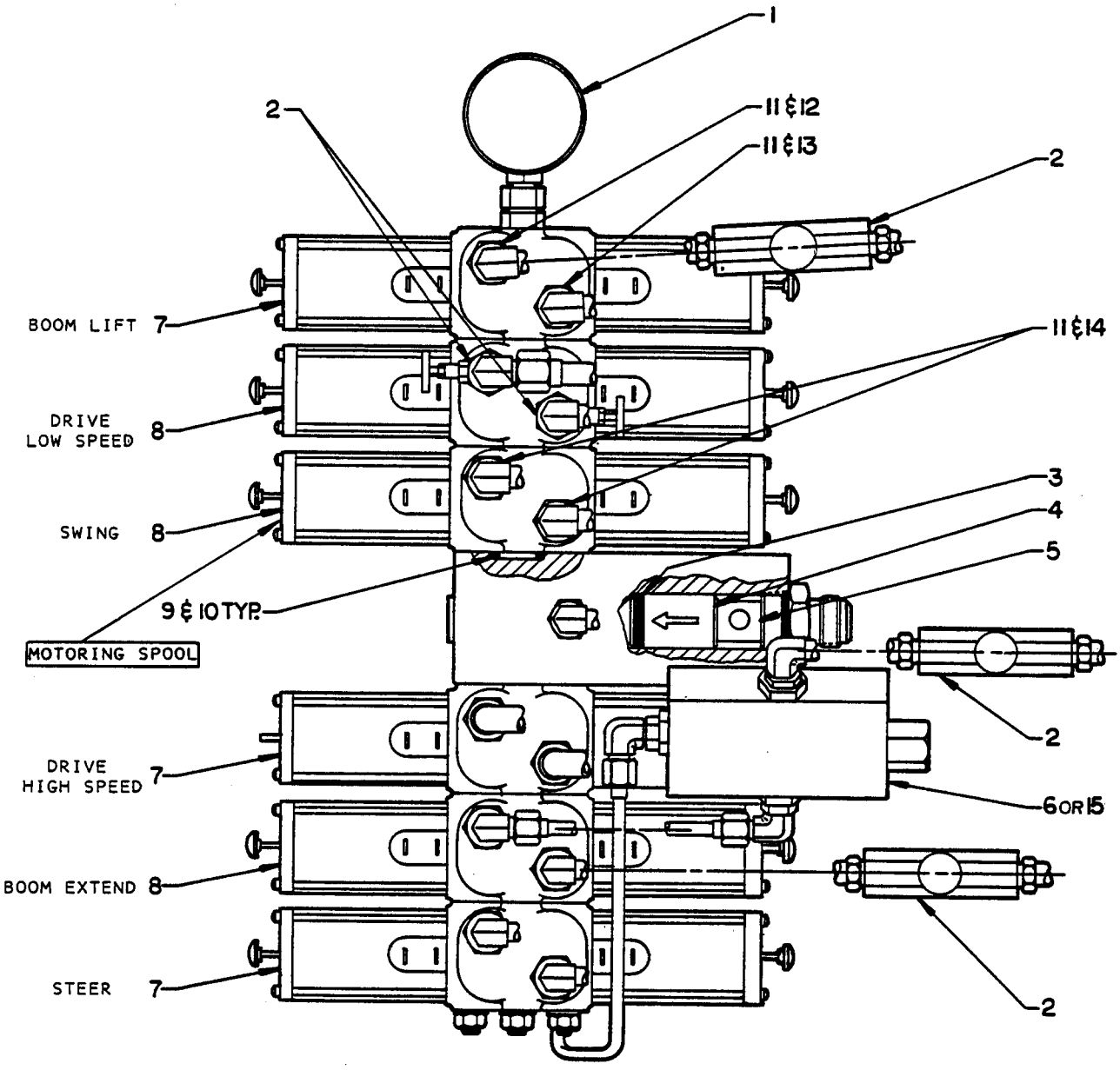
Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE SPINDLE ASSEMBLY, RIGHT AND LEFT HAND					
	PART NO.	REV. A	DATED 14 FEB., 1997	SECTION C01.	PLATE NO. 19	PAGE 02

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-021000		PRESSURE GAUGE	1
2	01-032700		NEEDLE VALVE	5
3	01-034200		'O' RING	1
4	01-034100		CHECK VALVE	1
5	SBD-201510-9		SPACER	1
6	01-008900		RELIEF VALVE (SHOWN)	1
7	01-031700	D13.1	SOLENOID CONTROL VALVE, 4-WAY	3
8	01-031800	D13.2	SOLENOID CONTROL VALVE, 4-WAY	3
9	01-031703		'O' RING 1 1/16 O.D.	6
10	01-031702		'O' RING 3/4 O.D.	6
11	04-060014		WASHER, 1/4 LIGHT	4
12	SBD-201507-9		FLOW DISC .078	1
13	SBD-203410-2		FLOW DISC .052	1
14	SBD-201508-4		FLOW DISC .047	2
15	01-012800		PRESSURE REDUCING VALVE (NOT SHOWN)	1

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	CAA-206253-2

C2.6



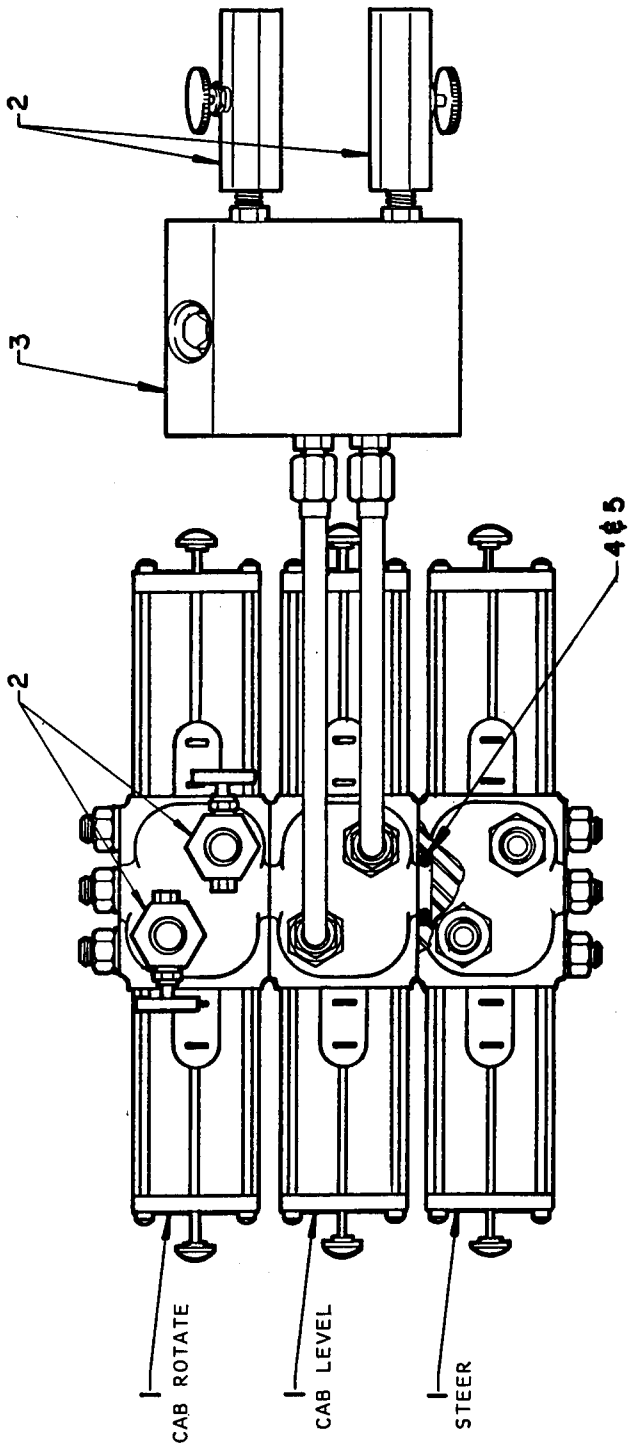
0684

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	CAA-206253-2

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-208489-5



0785/0785

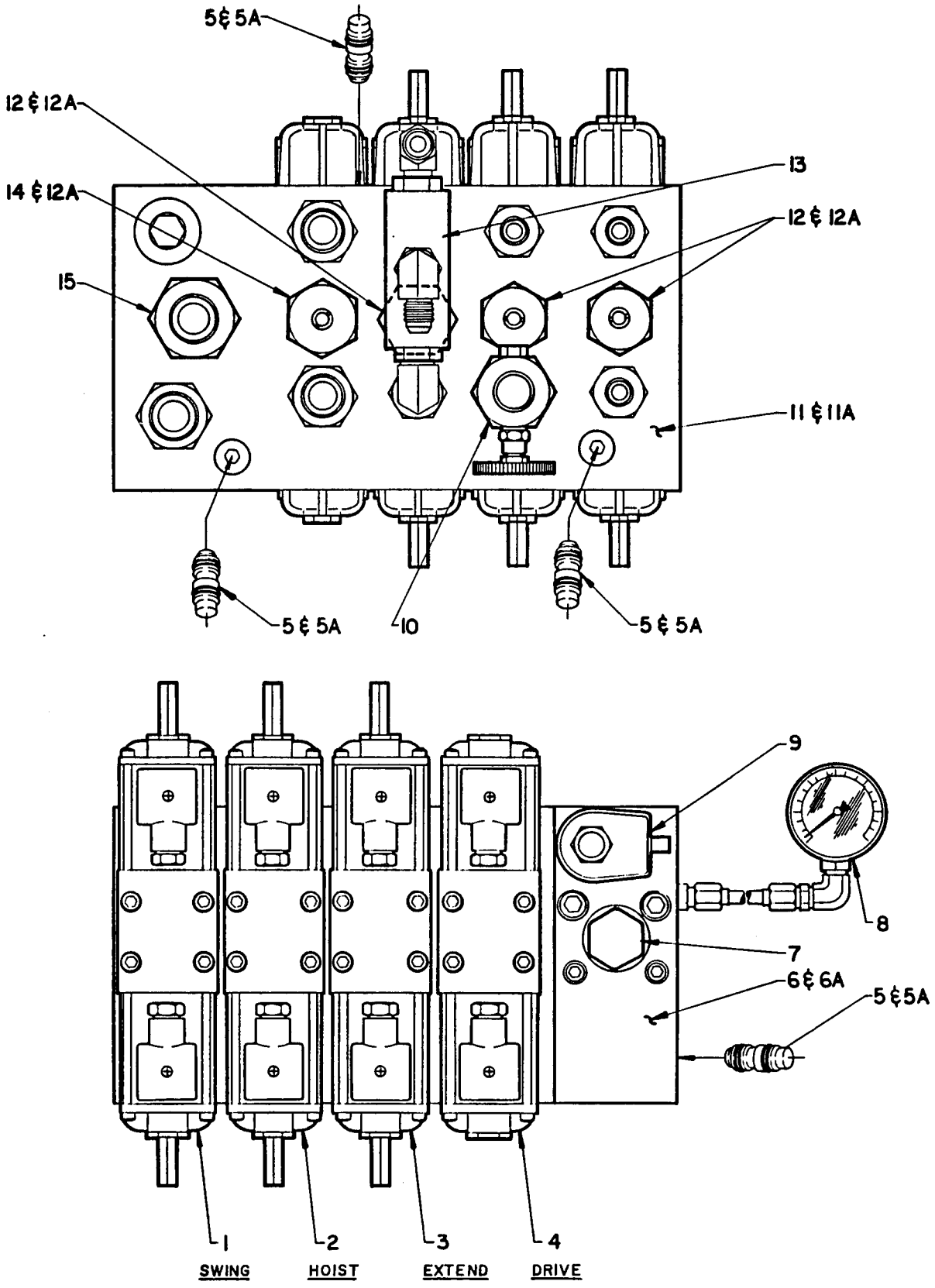
DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY (CAB LEVEL & ROTATE, STEER)	CAA-208489-5

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-017501	D13.4	SOLENOID CONTROL VALVE, SWING	1
2	01-017502	D13.4	SOLENOID CONTROL VALVE, HOIST	1
3	01-040302	D13.3	SOLENOID CONTROL VALVE, EXTEND	1
4	01-017504	D13.4	SOLENOID CONTROL VALVE, DRIVE	1
5			SHUTTLE VALVE	4
5A			SEAL KIT, SHUTTLE VALVE	4
6			AUXILIARY MANIFOLD BODY	1
6A			SEAL KIT, AUXILIARY MANIFOLD	1
7			FLOW CONTROL VALVE, 4 GPM	1
8	01-021000		PRESSURE GAUGE	1
9	01-040308		SOLENOID CONTROL VALVE, 3-WAY	1
10	01-032700		NEEDLE VALVE	1
11			MANIFOLD BODY	1
11A			SEAL KIT, MANIFOLD	1
12			CARTRIDGE COMPESATOR, SERIES 10	3
12A			SEAL KIT, CARTRIDGE COMPENSATOR	4
13	01-012800		PRESSURE REDUCING VALVE	1
14			CARTRIDGE COMPENSATOR, SERIES 10	1
15	01-018200		CHECK VALVE	1

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

c 2.20

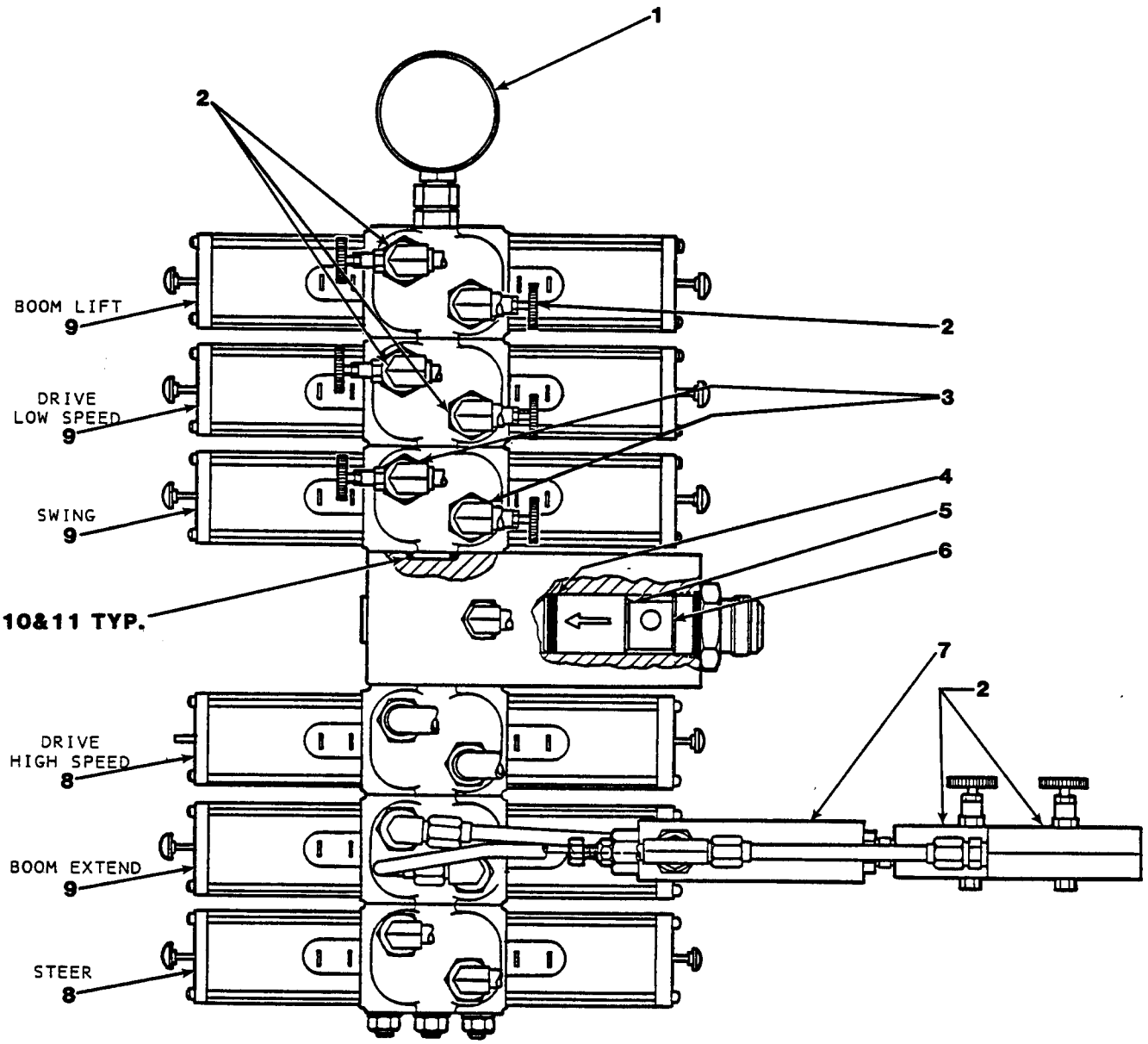


DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY (DRIVE, EXTEND, HOIST, SWING)	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-021000		PRESSURE GAUGE	1
2	01-019000		NEEDLE VALVE, #8 SAE PORTS	6
3	01-018900		NEEDLE VALVE, #6 SAE PORTS	2
4	01-034200		'O' RING	1
5	01-034200		CHECK VALVE	1
6	SBD-201510-9		SPACER	1
7	01-012800		PRESSURE REDUCING VALVE	1
8	01-031700	D13.1	SOLENOID CONTROL VALVE, 4-WAY	2
9	01-031800	D13.2	SOLENOID CONTROL VALVE, 4-WAY	4
10	01-031703		'O' RING, 1-1/16 O.D.	6
11	01-031702		'O' RING, 3/4 O.D.	6

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	



0786/0486

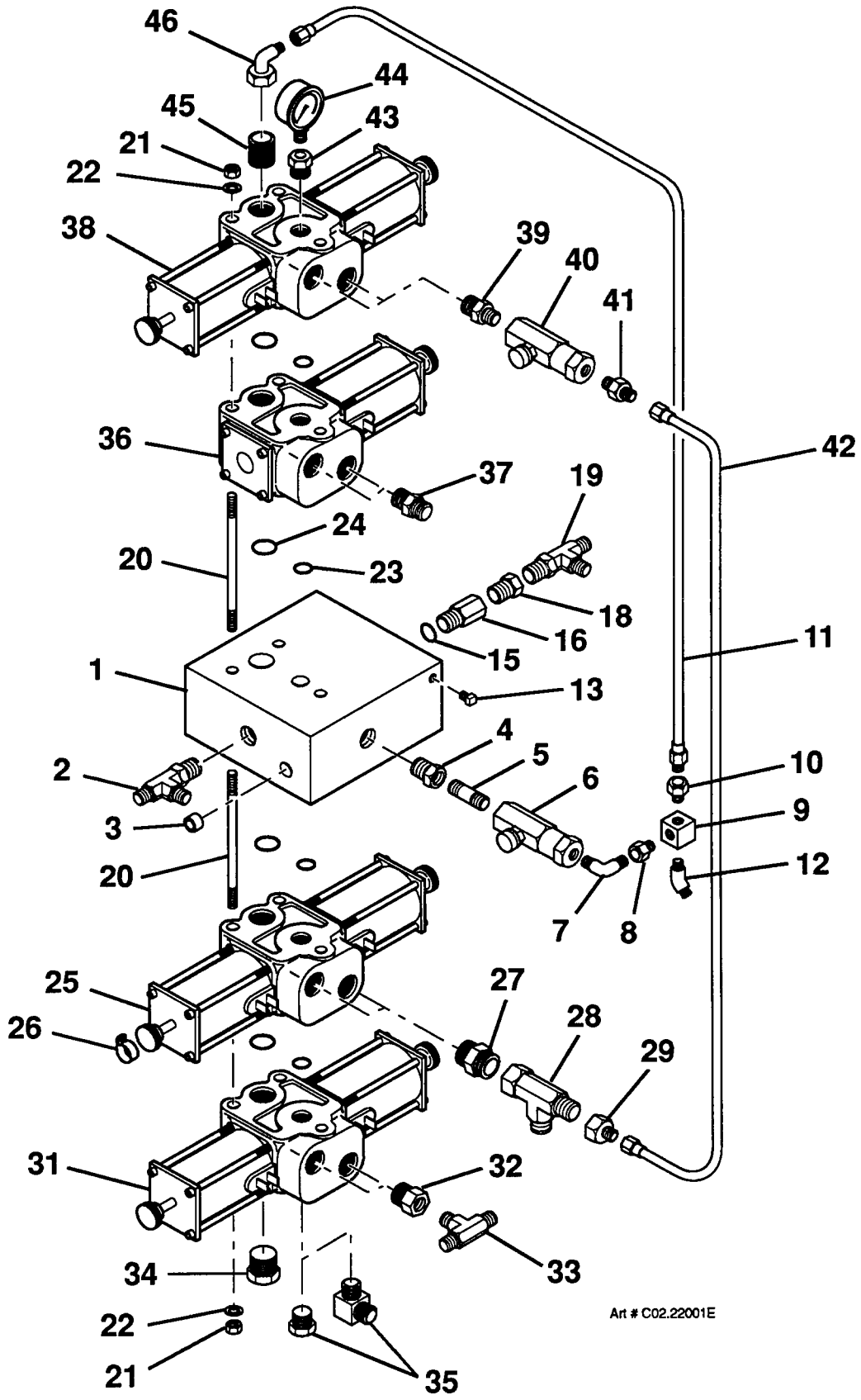
DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2025214		MANIFOLD, CONTROL VALVE	1
2	06-044800		ELBOW, STRAIGHT THREAD (8 C50X) (used on models **without** steering relief valves)	1
			TEE, STRAIGHT THREAD (used on models **with** steering relief valves)	1
3	06-095100		PLUG, HOLLOW HEX (8 HP50N)	1
4	06-086800		ADAPTER, FEMALE PIPE (8-1/4 F50G)	1
5	06-076900		NIPPLE, PIPE THREAD ADAPTER (PH 1/4 FF)	1
6	01-012300		VALVE, FLOW CONTROL	1
7	06-082500		ELBOW, PIPE THREAD (1/4 CR)	1
8	06-086600		ADAPTER, FEMALE PIPE (6-1/4 F50G)	1
9	01-013800		VALVE, SHUTTLE	1
10			FITTING (6 F50X)	1
11	3516800		TUBE ASSEMBLY (Shuttle valve return line)	1
12	06-047000		ELBOW, 45° STRAIGHT THREAD (6 V50X)	1
13	06-000003		PLUG, HEX HEAD (1/4 HP)	1
14	06-041100		CONNECTOR, STRAIGHT THREAD (12-16 F50X) (not shown)	1
15	01-034200		"O"-RING (1.051" I.D.)	1
16	01-034100		VALVE, CARTRIDGE CHECK (3,000 PSI)	1
17	2015109		SPACER, CHECK VALVE (not shown)	1
18	06-040800		CONNECTOR, STRAIGHT THREAD (12 F50X)	1
19			TEE	1
20	2096568		ROD, THREADED (3/8"-16 x 6-1/4")	6
21	07-040016		NUT, HEX (3/8"-16, Grade 5)	6
22	07-065016		WASHER, HELICAL LOCK (3/8")	6
23	01-031702		"O"-RING (3/4" O.D.)	4
24	01-031703		"O"-RING (1-1/16" O.D.)	4
25	01-031700	D13.01	VALVE, DIRECTIONAL (High speed valve) (Solenoid operated, 4 way, 3 position, closed center)	1
26			BAND (to prevent manual operation of high speed valve)	2
27	06-040900		CONNECTOR, STRAIGHT THREAD (12-8 F50X)	2
28	06-054800		RUN TEE, SWIVEL NUT (12 R6X)	2
29	06-057800		NUT, TUBE (12 BTX)	2
30	06-060900		REDUCER, TUBE END (12-8 TRTX) (not shown)	2
31	01-031700	D13.01	VALVE, DIRECTIONAL (Steer valve) (Solenoid operated, 4 way, 3 position, closed center)	1
32			REDUCER	2
33	06-044700		ELBOW, STRAIGHT THREAD (6-8 C50X) (used on models **without** steering relief valves)	2
			TEE, STRAIGHT THREAD (used on models **with** steering relief valves)	2

TITLE MANIFOLD ASSEMBLY, DRIVE/ STEER (FULL HYDRAULIC) (PLATE 1 OF 2)

PLATE NO. C02.22 | **SIMON AERIALS INC.** REV. 06/26/91 | PART NO. 3511020



TITLE MANIFOLD ASSEMBLY, DRIVE/ STEER (FULL HYDRAULIC) (PLATE 1 OF 2)

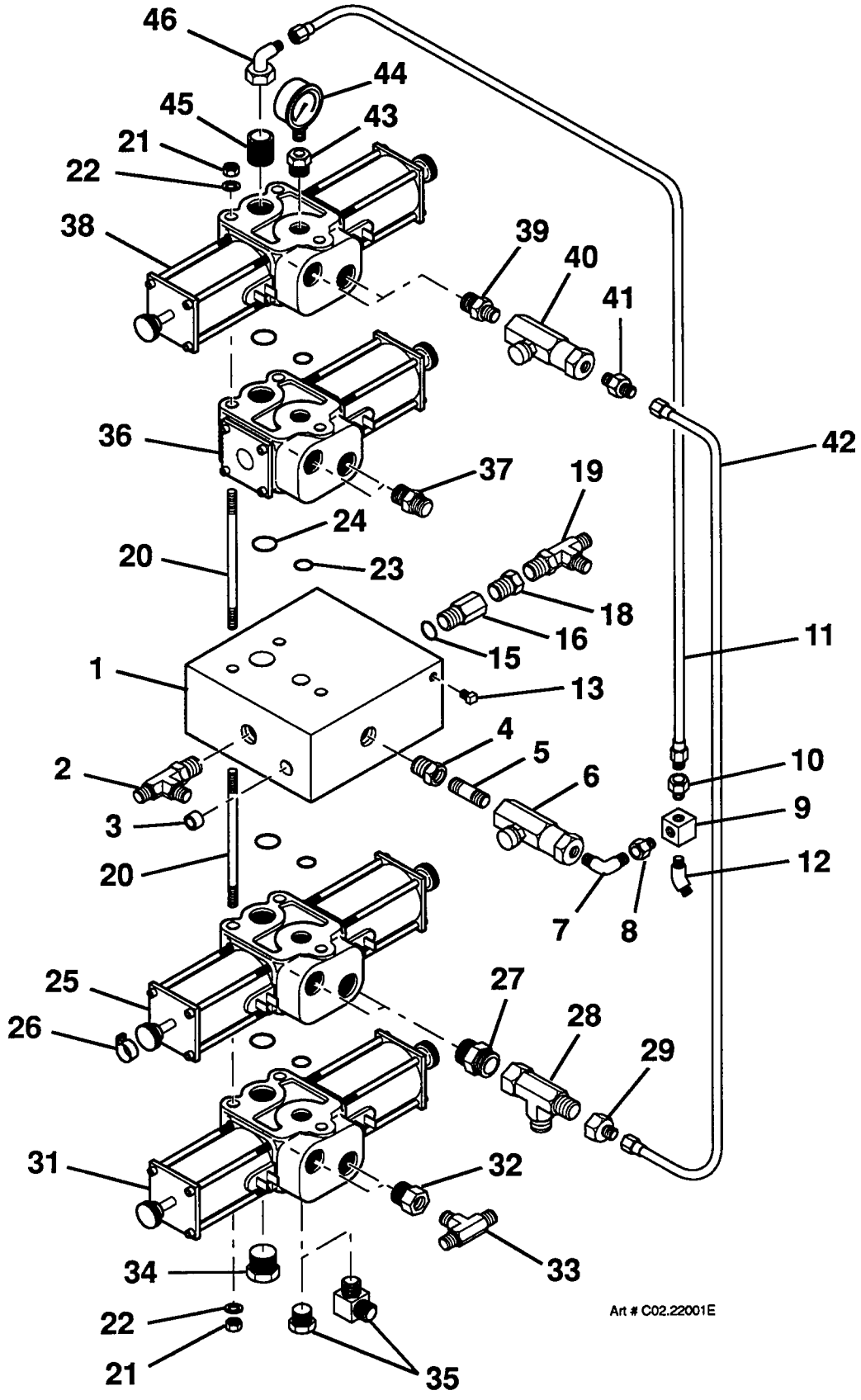
SIMON AERIALS INC.	REV. 06/26/91	PART NO. 3511020	PLATE NO. C02.22

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
34	06-040500		CONNECTOR, STRAIGHT THREAD (10-8 F50X)	1
35	06-095000		PLUG, HOLLOW HEX (6 HP50N)	
			(used on models **without** 2 speed drive or 4WD)	1
	06-044600		ELBOW, STRAIGHT THREAD (6 C50X)	
			(used on models **with** 2 speed drive or 4WD)	1
36	01-061900		VALVE, DIRECTIONAL (Diverter valve)	
			(Solenoid operated, 4 way, 2 position)	1
37	06-040100		CONNECTOR, STRAIGHT THREAD (8 F50X)	2
38	01-031800	D13.02	VALVE, DIRECTIONAL (Low speed valve)	
			(Solenoid operated, 4 way, 3 position, open center)	1
39	06-096200		UNION (8 F50 F50)	2
40	01-019000		VALVE, FLOW CONTROL	2
41	06-040100		CONNECTOR, STRAIGHT THREAD (8 F50X)	1
42	3511050		TUBE ASSEMBLY (Low speed valve to high speed valve)	2
43	06-086600		ADAPTER, FEMALE PIPE (6-4 F50)	1
44	01-021000		GAUGE, HYDRAULIC PRESSURE (0-4000 PSI)	1
45	06-039900		CONNECTOR, STRAIGHT THREAD (6-8 F50X)	1
46	06-051500		CONNECTOR (6 C6X)	1
47	03-426000		HARNESS, WIRE (not shown)	1

TITLE MANIFOLD ASSEMBLY, DRIVE/ STEER (FULL HYDRAULIC) (PLATE 2 OF 2)

PLATE NO.	SIMON AERIALS INC.	REV. 06/26/91	PART NO.
C02.22			3511020



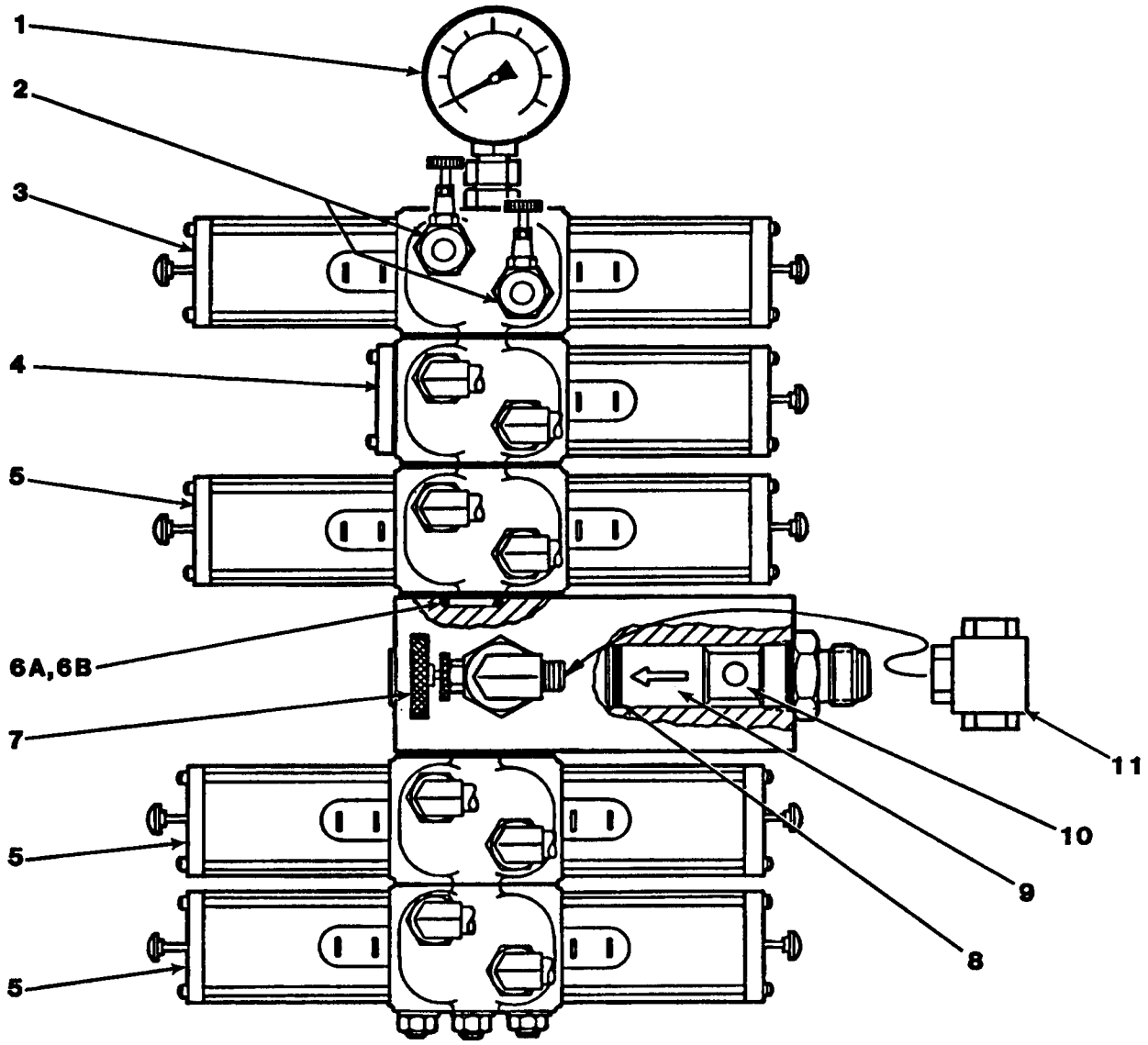
TITLE MANIFOLD ASSEMBLY, DRIVE/ STEER (FULL HYDRAULIC) (PLATE 2 OF 2)

SIMON AERIALS INC. REV. 06/26/91 | PART NO. 3511020 | PLATE NO. C02.22

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-021000		GAUGE, PRESSURE (0-4000 lb/in^2, 1/4" NPT)	1
2	01-019000		VALVE, NEEDLE FLOW CONTROL (#8 SAE ports)	2
3	01-031800	D13.02	VALVE, SOL. CONT., 4-WAY (low speed drive)	1
4	01-061900		VALVE, SOL. CONT., 4-WAY (diverter)	1
5	01-031700	D13.01	VALVE, SOL. CONT., 4-WAY (high speed drive, steer)	3
5A	01-031701		COIL, SOLENOID VALVE	3
5B	01-031712		SEAL KIT (for solenoid valve)	1
6A	01-031703		O-RING, 1-1/16" O.D.	10
6B	01-031702		O-RING, 3/4" O.D.	10
7	01-012300		VALVE, PRESSURE COMPENSATED NEEDLE	1
8	01-034200		O-RING	1
9	01-034100		VALVE, CHECK	1
10	20151090		SPACER	1
11	01-013800		VALVE, SHUTTLE	1
12	01-071200		SEAL KIT (for shuttle valve)	1

TITLE	VALVE BANK ASSEMBLY (DRIVE AND STEER)	
PLATE NO. C02.23	**SIMON AERIALS INC.** REV. 11/30/90	PART NO. 3511020

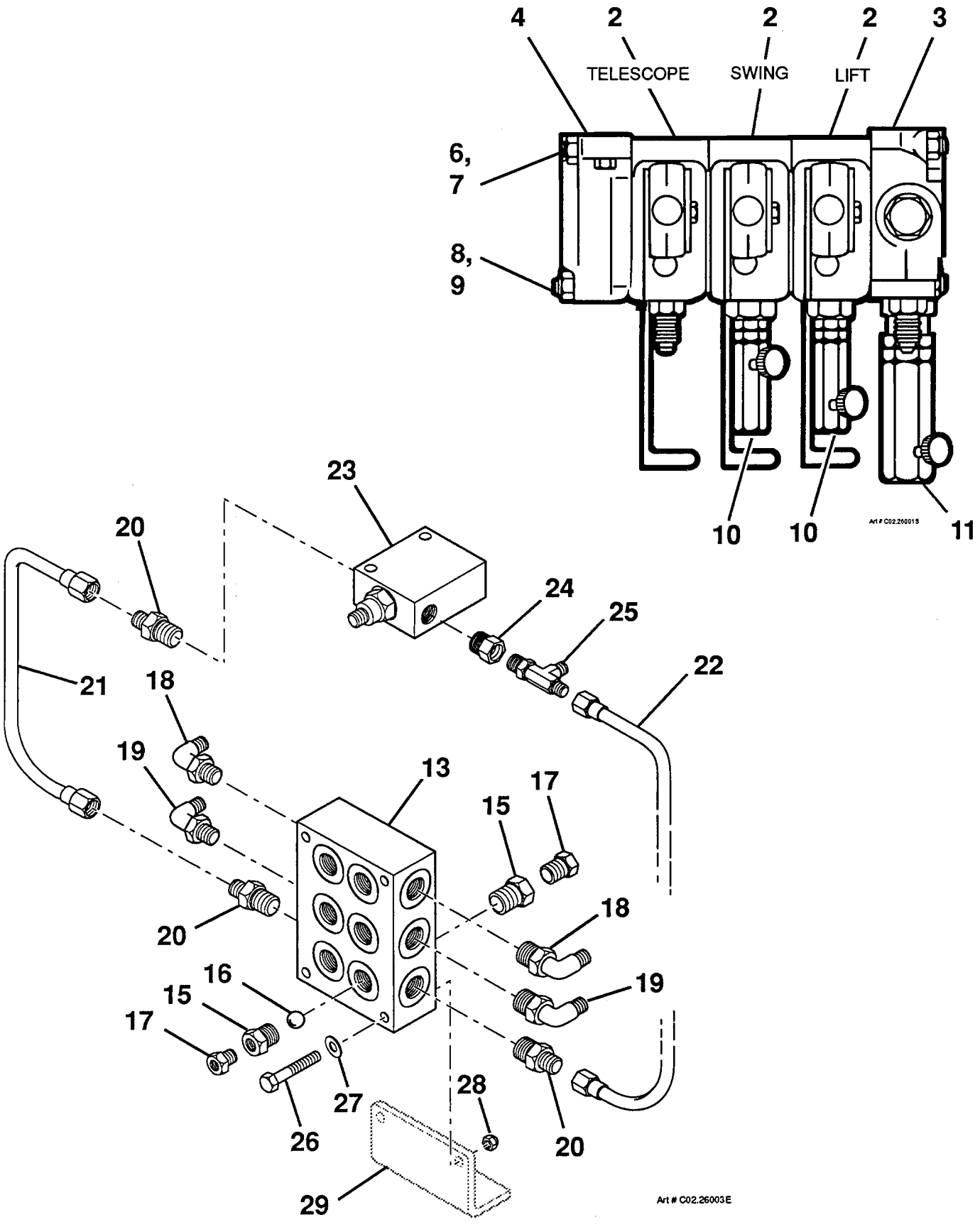


TITLE	VALVE BANK ASSEMBLY (DRIVE AND STEER)		
SIMON AERIALS INC. REV. 11/30/90	PART NO. 3511020	PLATE NO. C02.23	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			VALVE BANK ASSEMBLY, GROUND (Lift, swing, telescope)	1
2	01-067701	D14.02	VALVE SECTION, 4-WAY MANUAL	3
3	01-067704		VALVE SECTION, INLET	1
4	01-067705		END SECTION, VALVE	1
5			TIE ROD KIT	1
6			TIE ROD (5/16"-11 X 6-3/4" long)	2
7			NUT, HEX (5/16"-11)	4
8			TIE ROD (3/8"-24 X 6-3/4" long)	1
9			NUT, HEX (3/8"-24)	2
10	01-018900		VALVE, NEEDLE (#6 SAE ports)	3
11	01-019000		VALVE, NEEDLE (#8 SAE ports)	1
12	3511030		SHUTTLE VALVE ASSEMBLY (for MP 70 and smaller)	1
	3517640		SHUTTLE VALVE ASSEMBLY (for MP 80 and larger)	1
13	01-071300		BLOCK, SHUTTLE VALVE	1
14	01-071200		VALVE KIT, SHUTTLE	6
15			SEAT (with "O"-Ring)	2
16			BALL	1
17	06-039900		CONNECTOR, STRAIGHT THREAD (6-8 F50X)	12
18	06-044800		ELBOW, STRAIGHT THREAD (8 C50X)	2
19	06-044700		ELBOW, STRAIGHT THREAD (6-8 C50X)	2
20	06-040100		CONNECTOR, STRAIGHT THREAD (8 F50X)	3
21	3515610		TUBE ASSEMBLY (left hand)	1
22	3515600		TUBE ASSEMBLY (right hand)	1
23			VALVE, PRESSURE REDUCING	
	01-012800		(100 to 3,000 PSI, 10 GPM) (for assembly 3511030)	1
	01-082400		(100 to 3,000 PSI, 20 GPM) (for assembly 3517640)	1
24	06-090400		REDUCER/ EXPANDER (6-8 F50G5)	1
25	06-048600		RUN TEE, STRAIGHT THREAD (8 R50X)	1
26	07-003013		CAP SCREW, HEX HEAD (1/4"-20 x 3")	2
27	07-060014		WASHER, FLAT (1/4" SAE)	4
28	07-050014		NUT, STOP (1/4"-20)	2
29	2126710		BRACKET, SHUTTLE VALVE MOUNTING (ref.)	1

TITLE	VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE)			
PLATE NO.	C02.26	**SIMON AERIALS INC.**	REV. 08/26/91	PART NO.

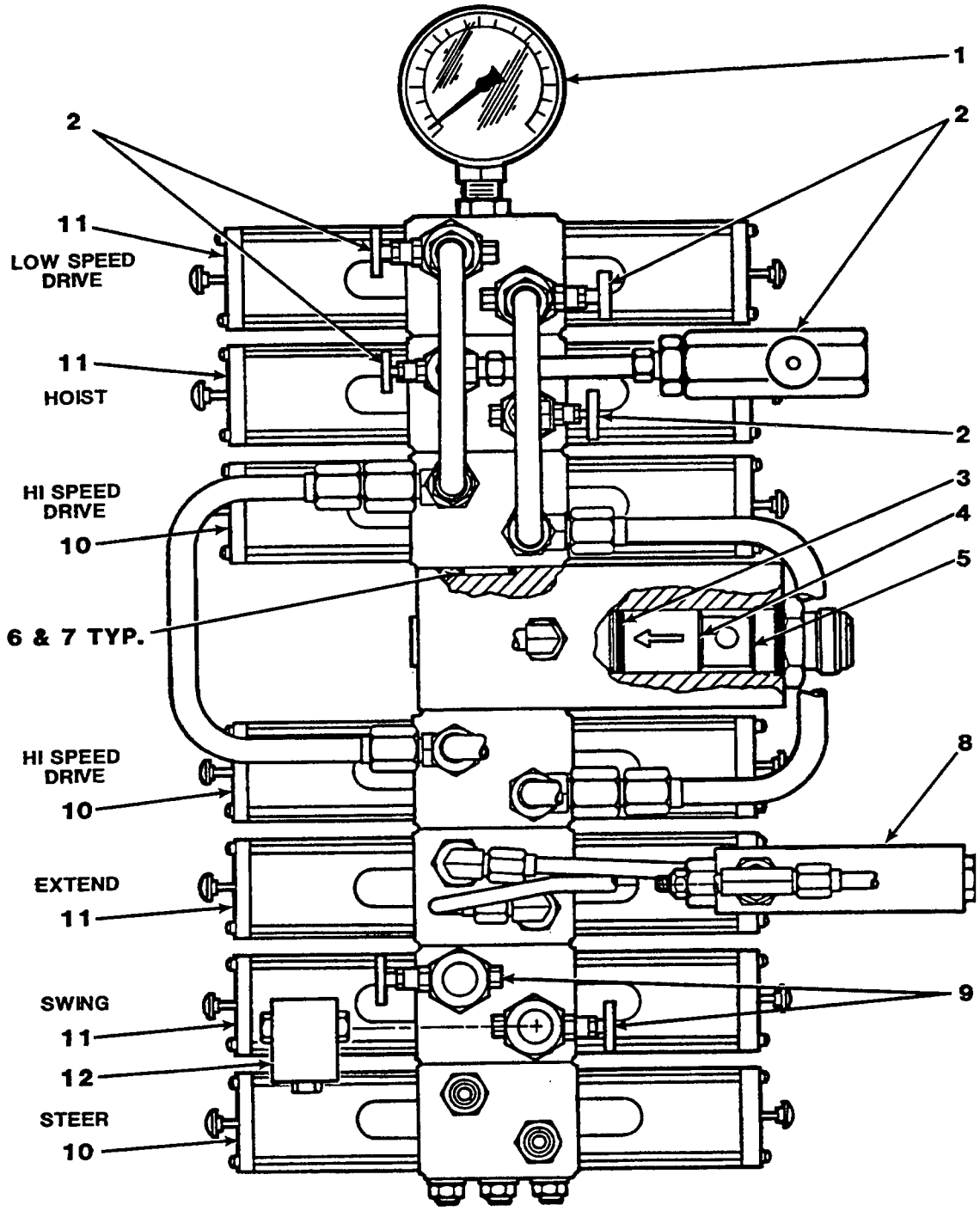


TITLE	VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE)		
SIMON AERIALS INC.	REV. 08/26/91	PART NO.	PLATE NO. C02.26

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	



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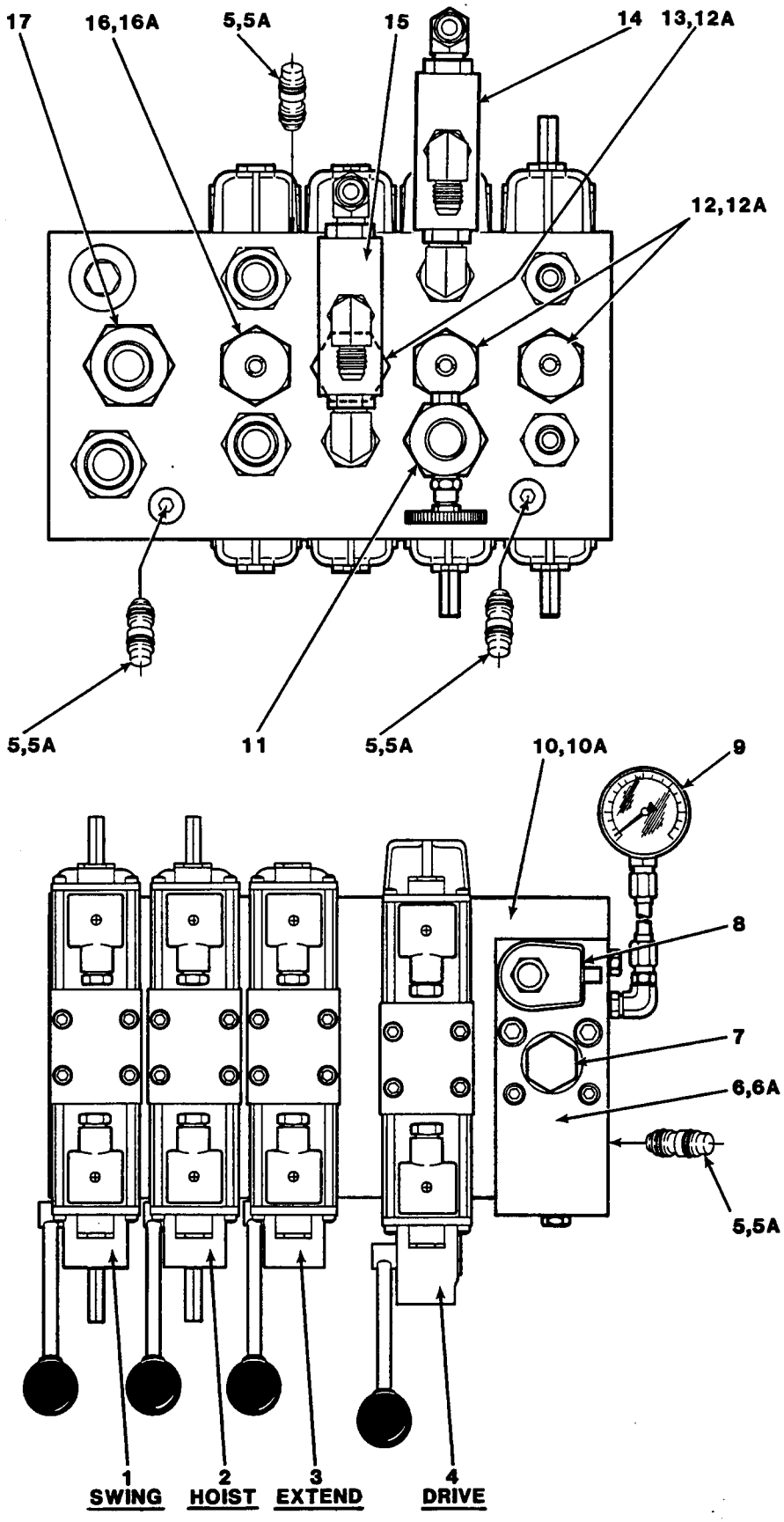
DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	

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.



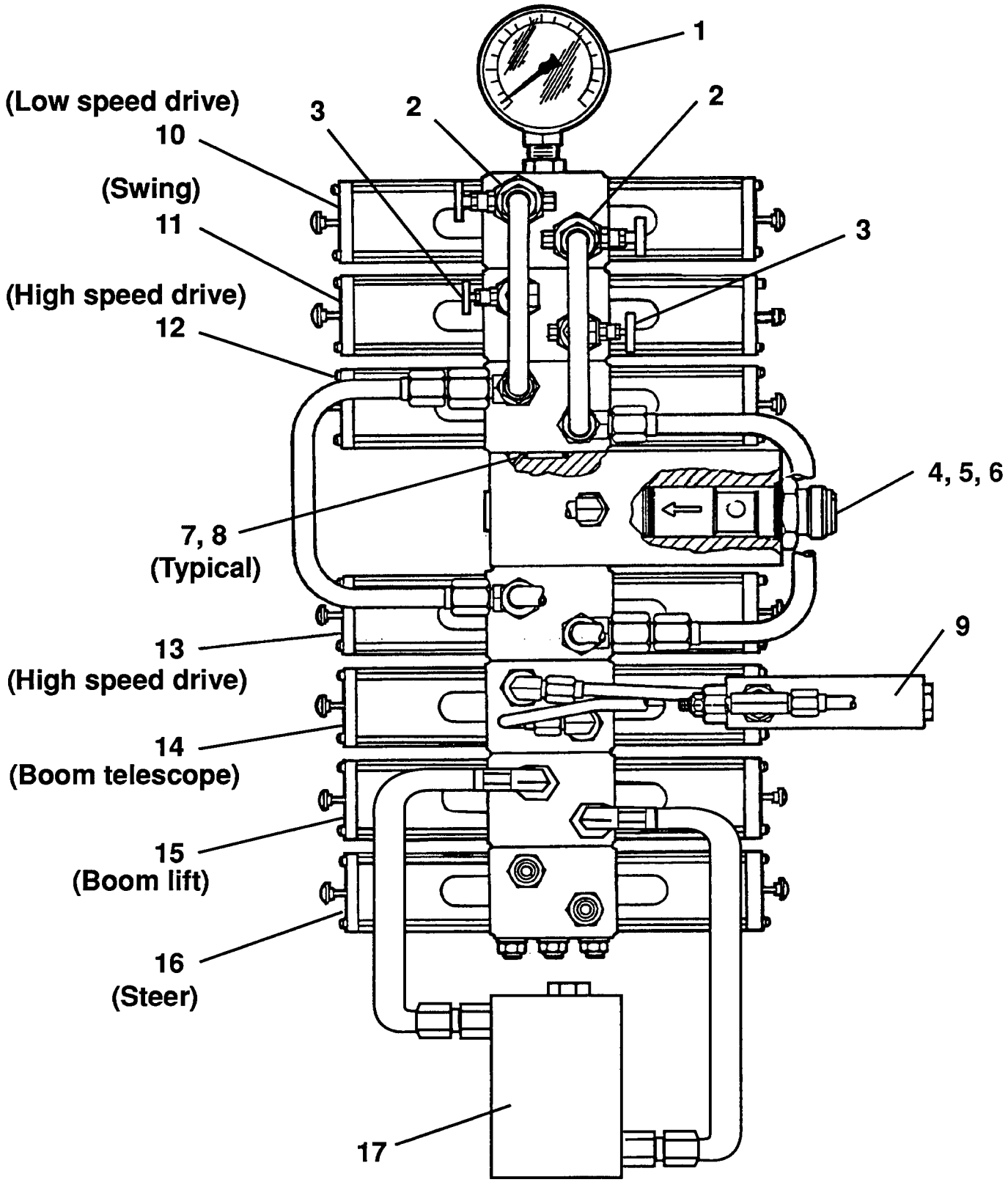
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DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY (SWING, HOIST, EXTEND, DRIVE)	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-021000		GAUGE, PRESSURE	1
2	01-019000		VALVE, NEEDLE (#8 SAE port) (two not shown)	4
3	01-018900		VALVE, NEEDLE (#6 SAE port)	2
4	01-034200		"O"-RING [1.051" (26.695 mm) I.D.]	A.R.
5	01-034100		VALVE, CHECK	1
6	2015109		SPACER	1
7	01-031702		"O"-RING [3/4" (19 mm) O.D.]	7
8	01-031703		"O"-RING [1-1/16" (27 mm) O.D.]	7
9	01-082400		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) (Swing)	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) (Boom lift)	1
16	01-031800	D13.02	VALVE, SOLENOID CONTROL (4-way, motoring spool) (Steer)	1
17	01-068200		VALVE, CHECK (Pilot operated)	1

TITLE	VALVE BANK ASSEMBLY		
PLATE NO. C02.29	**SIMON AERIALS INC.**	REV. 10/15/90	PART NO.



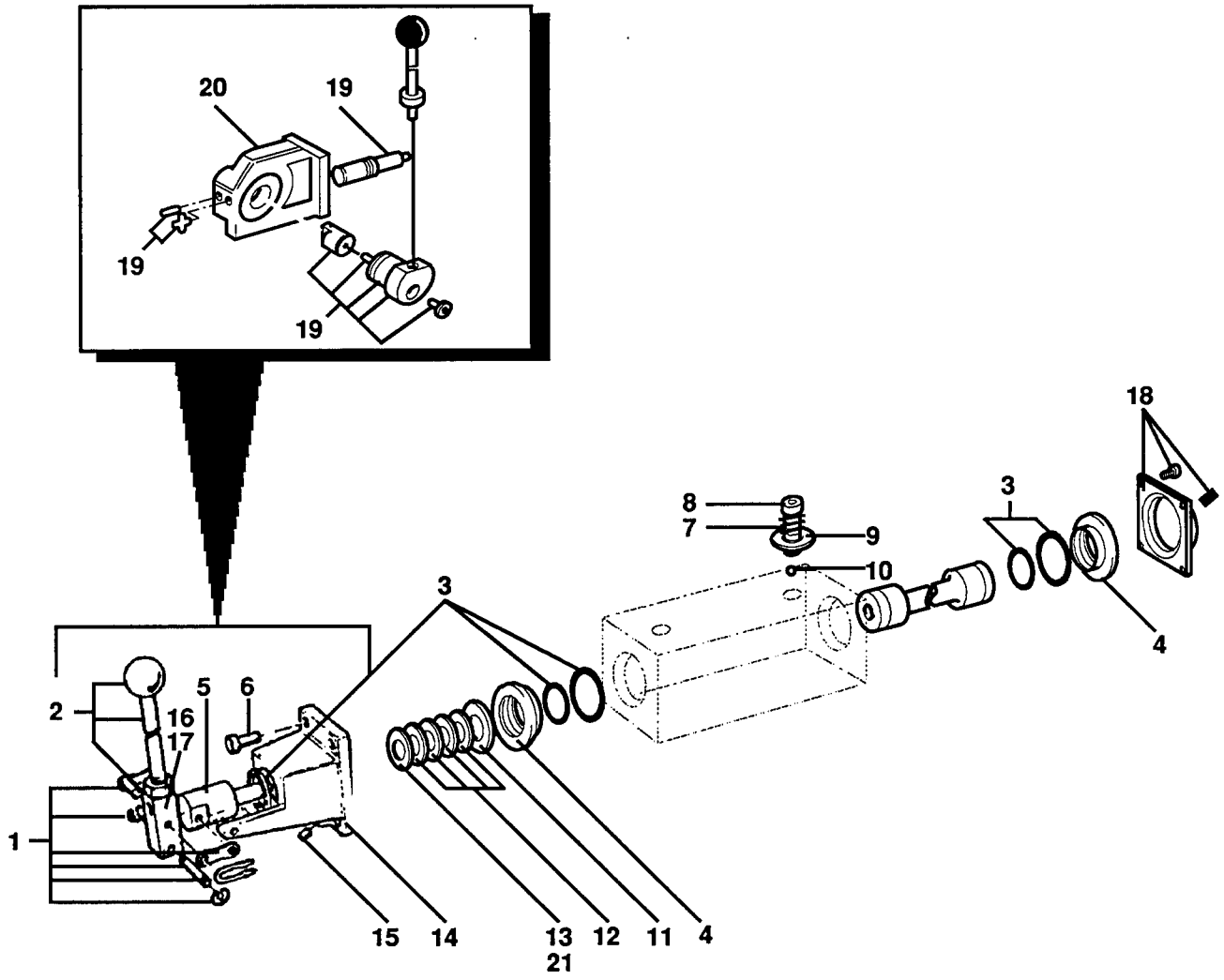
TITLE	VALVE BANK ASSEMBLY		
SIMON AERIALS INC. REV. 10/15/90		PART NO.	PLATE NO. C02.29

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-061717		CONNECTOR ASSEMBLY	1
2	01-061701		LEVER ASSEMBLY	1
3	01-061716		SEALING KIT	1
4	01-061708		SEAL RING KIT	1
5	01-061702		BOLT	1
6	01-061703		SCREW	2
7	01-061704		SPRING, PRESSURE	2
8	01-061705		SCREW	2
9	01-061706		RING, SEAL	2
10	01-061707		BALL	2
11	01-061709		SPACER	1
12	01-061710		PLATE, SPRING	10
13	01-061711		WASHER	1
14	01-061712		HOUSING	1
15	01-061713		PIN, THREAD	1
16	01-061714		BRACKET	1
17	01-061715		BRACKET	1
18	01-061718		COVER ASSEMBLY	1
19*	01-061723		PIVOT ASSEMBLY	1
20*	01-061719		HOUSING	1
21*	01-061724		RING, CENTERING	1
			*USED ON EARLIER MODELS	
			NOTE: ITEMS WHICH ARE NOT LISTED CANNOT BE ORDERED SEPARATELY; ORDER COMPLETE ASSEMBLY IF REPLACEMENT IS REQUIRED.	

TITLE	VALVE BANK ASSEMBLY (FULL HYDRAULIC)		
PLATE NO. C02.30	**SIMON AERIALS INC.**	REV. 11/30/90	PART NO. 01-061700

USED ON EARLIER MODELS



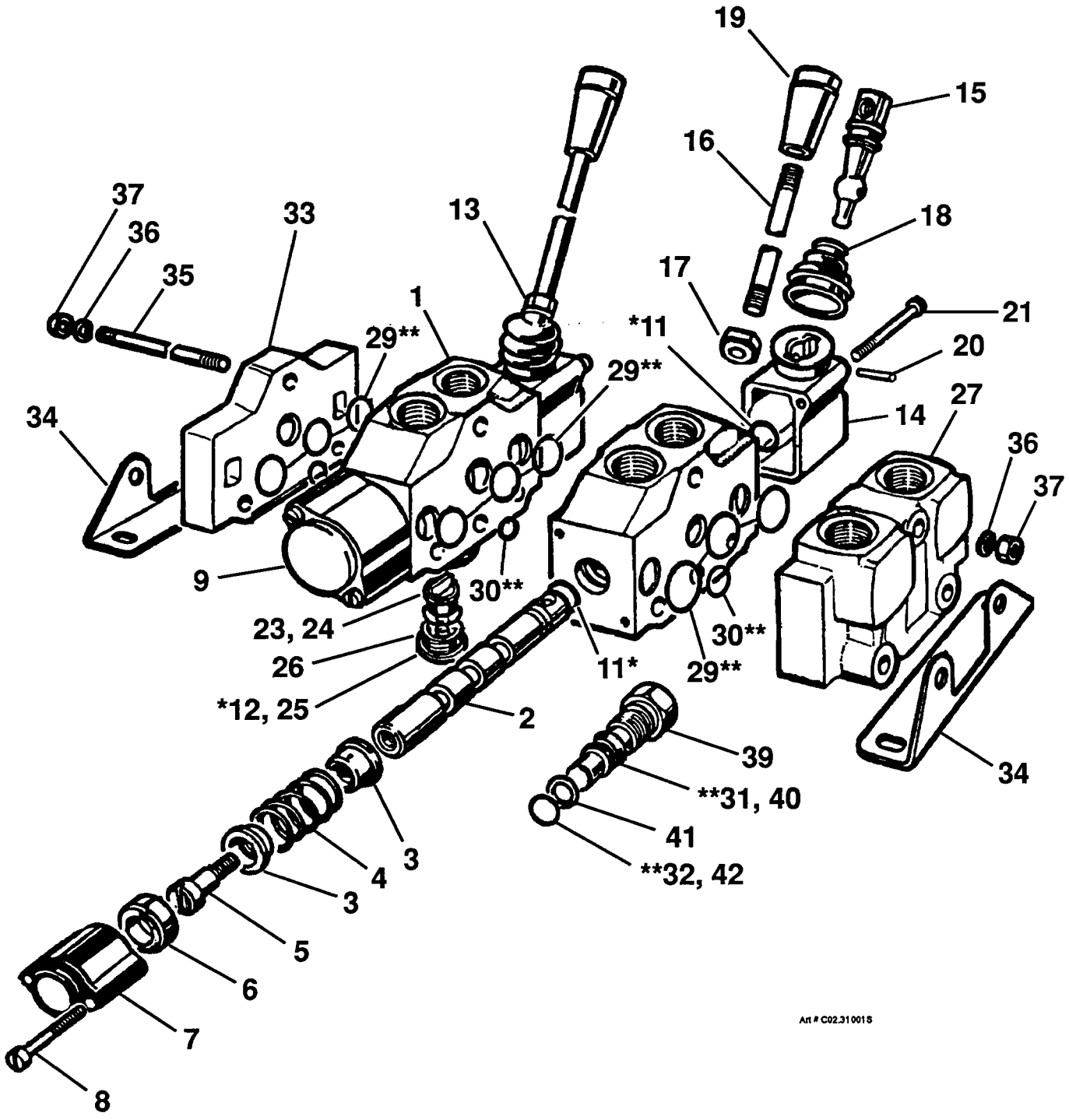
TITLE	VALVE BANK ASSEMBLY (FULL HYDRAULIC)		
SIMON AERIALS INC. REV. 11/30/90		PART NO. 01-061700	PLATE NO. C02.30

PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1			BODY, VALVE SECTION	3
2			SPOOL ASSEMBLY (HDS 130, Type "A")	3
3			WASHER, SPRING (front)	6
4			SPRING, POSITIONER	3
5			PIN, SPRING	3
6			HEAD, SPACER	3
7			HEAD, CAP	3
8			SCREW, SLOTTED	3
9			POSITIONER	3
10	01-099502		SEAL KIT, BODY SECTION (can use with water glycol fluid)	3
			Note: Items in seal kit identified by one asterisk (*).	
11*			O-RING, SPOOL	2
12*			O-RING, CHECK VALVE (also p.o. check valve, item 22)	1
13	01-099503		LEVER ASSEMBLY	3
14			CAP, HANDLE	1
15			TERMINAL (for horizontal lever)	1
16			HANDLE	1
17			NUT, HEX	1
18			BOOT, HANDLE	1
19			KNOB, HANDLE	1
20			PIN	3
21			SCREW, SLOTTED	6
22			VALVE, CHECK	3
23			SPRING	3
24			POPPET	3
25*			O-RING, CHECK VALVE (also p.o. seal kit, item 10)	1
26			WASHER, CHECK VALVE	3
27			HEAD, INLET/ OUTLET	1
28	01-099501		SEAL KIT, INLET/ OUTLET (can use with water glycol fluid)	1
			Note: Items in seal kit identified by two asterisks (**).	
29**			O-RING	9
30**			O-RING	3
31**			O-RING (also part of Relief Valve, item 38)	1
32**			O-RING (also part of Relief Valve, item 38)	1
33			COVER, END (standard)	1
34			BRACKET	2
35			ROD, TIE	3
36			WASHER, SPRING	6
37			NUT, HEX	6

TITLE VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE) (PLATE 1 OF 2)

PLATE NO. C02.31 | **SIMON AERIALS INC.** REV. 06/18/91 | PART NO. 01-099500



TITLE VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE) (PLATE 1 OF 2)

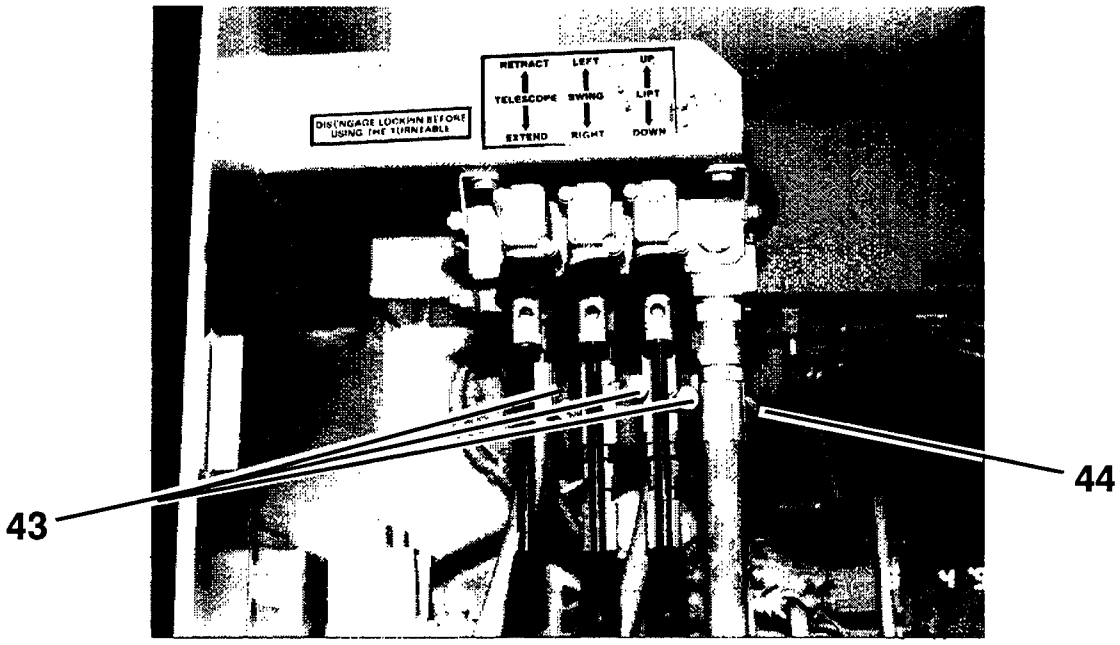
SIMON AERIALS INC.	ORIGIN 07/16/90	PART NO. 01-099500	PLATE NO. C02.31

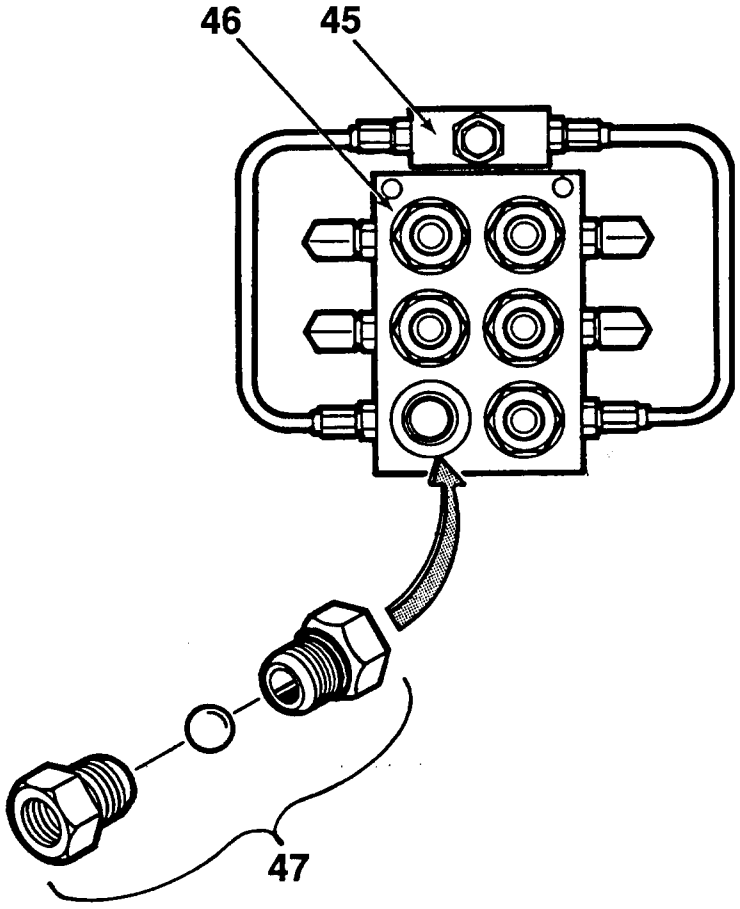
PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
38			VALVE, RELIEF (closed)	1
39			PLUG, CARTRIDGE	1
40**			O-RING	1
41			RING, BACK-UP	1
42**			O-RING	1
43	01-018900		VALVE, NEEDLE (#6 SAE ports)	3
44	01-019000		VALVE, NEEDLE (#8 SAE ports)	1
45	01-012800		VALVE, PRESSURE REDUCING	1
46	01-071300		BLOCK, SHUTTLE VALVE	1
47	01-071200		SHUTTLE ASSEMBLY	6

TITLE VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE) (PLATE 2 OF 2)

PLATE NO. C02.31 | **SIMON AERIALS INC.** REV. 06/18/91 | PART NO. 01-099500





SHUTTLE VALVE BLOCK ASSEMBLY

TITLE VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE) (PLATE 2 OF 2)

SIMON AERIALS INC. ORIGIN 06/18/91	PART NO. 01-099500	PLATE NO. C02.31

PARTS LIST

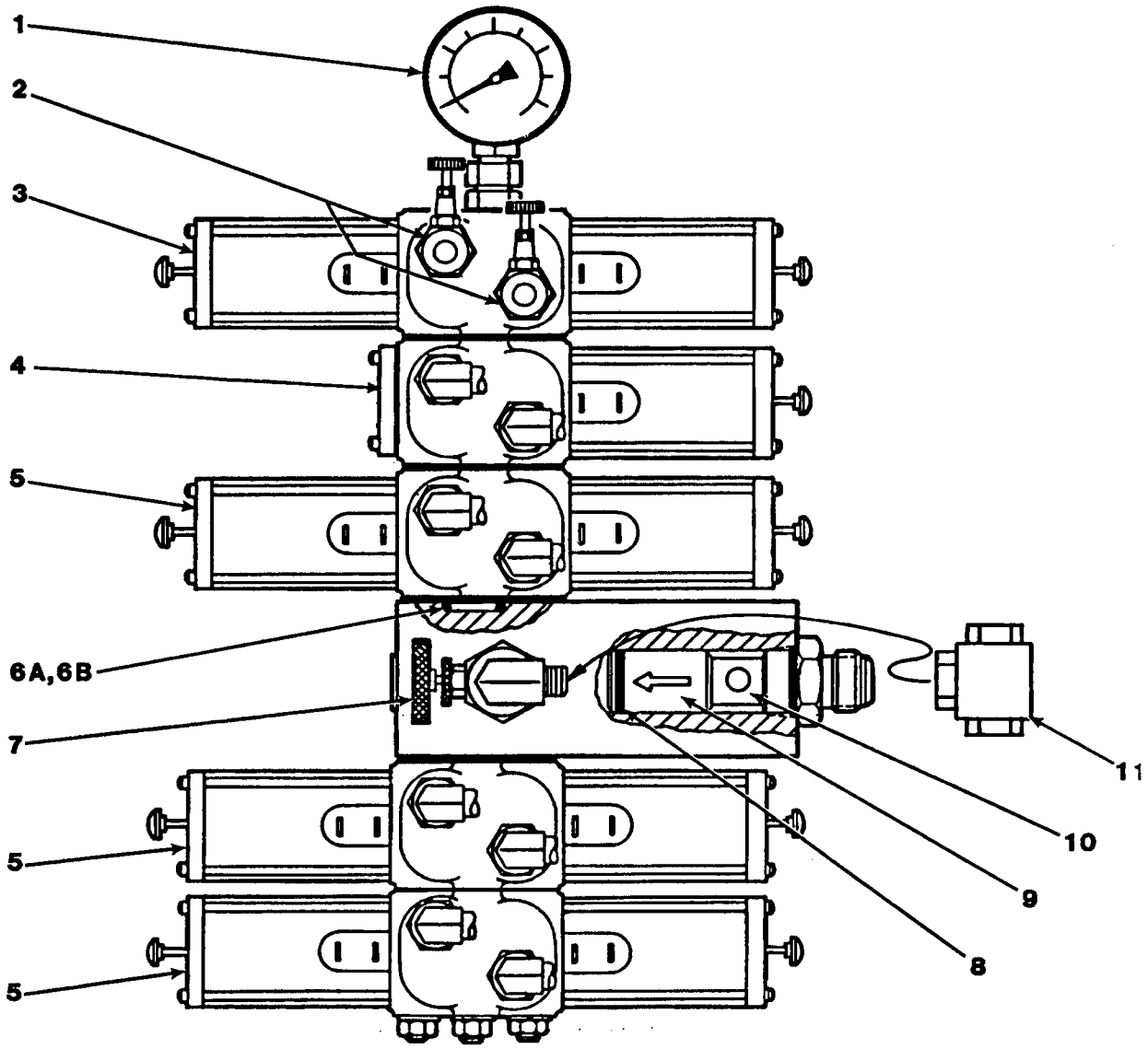
ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1	01-021000		GAUGE, PRESSURE (0-4000 lb/in^2, 1/4" NPT)	1
2	01-019000		VALVE, NEEDLE FLOW CONTROL (#8 SAE ports)	2
3	01-031800	D13.02	VALVE, SOL. CONT., 4-WAY (low speed drive)	1
4	01-061900		VALVE, SOL. CONT., 4-WAY (diverter)	1
5	01-031700	D13.01	VALVE, SOL. CONT., 4-WAY (high speed drive, steer)	3
5A	01-031701		COIL, SOLENOID VALVE	3
5B	01-031712		SEAL KIT (for solenoid valve)	1
6A	01-031703		O-RING, 1-1/16" O.D.	10
6B	01-031702		O-RING, 3/4" O.D.	10
7	01-012300		VALVE, PRESSURE COMPENSATED NEEDLE	1
8	01-034200		O-RING	1
9	01-200600		VALVE, CHECK	1
10	20151090		SPACER	1
11	01-013800		VALVE, SHUTTLE	1
12	01-071200		SEAL KIT (for shuttle valve)	1

TITLE: VALVE BANK ASSEMBLY (DRIVE AND STEER)

PLATE NO. C02.32

SIMON AERIALS INC. ORIGIN 07/20/90

PART NO.



TITLE	VALVE BANK ASSEMBLY (DRIVE AND STEER)		
SIMON AERIALS INC. ORIGIN 07/20/90		PART NO.	PLATE NO. C02.32

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) (Swing)	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	01-031700	D13.01	VALVE, SOLENOID CONTROL (4-way, closed spool) (Boom lift)	1
15	01-031700	D13.01	VALVE, SOLENOID CONTROL (4-way, closed spool) (Boom telescope)	1
16	01-031700	D13.01	VALVE, SOLENOID CONTROL (4-way, closed spool) (Steer)	1

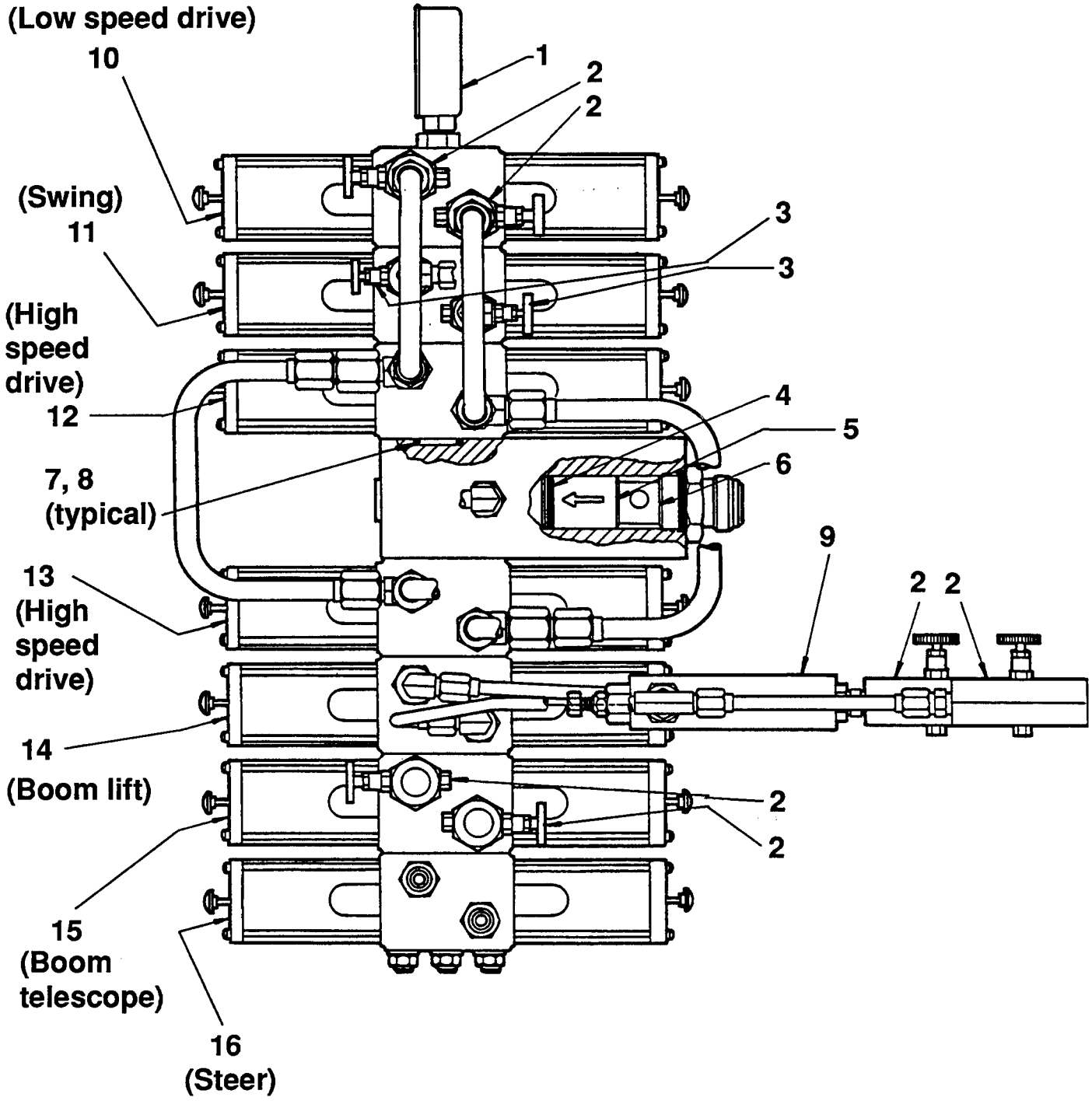
TITLE: VALVE BANK ASSEMBLY

PLATE NO. C02.33

SIMON AERIALS INC.

NEW 10/01/90

PART NO.



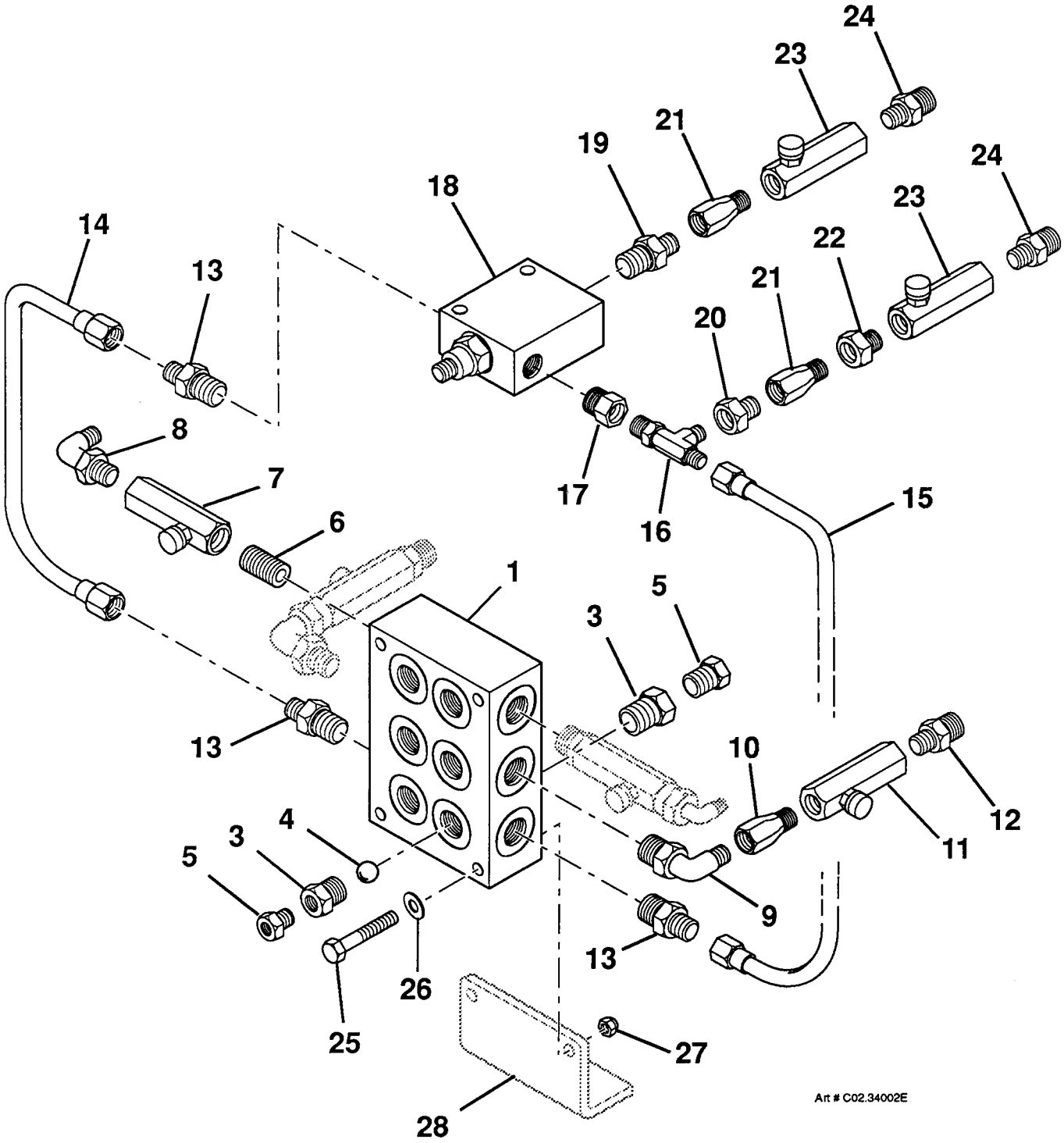
TITLE	VALVE BANK ASSEMBLY		
SIMON AERIALS INC. NEW 10/01/90		PART NO.	PLATE NO. C02.33

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	3524470		SHUTTLE VALVE ASSEMBLY (MP 70 and smaller, with Ground control C02.35)	1
			SHUTTLE VALVE ASSEMBLY (MP 80 and larger, with Ground control C02.35)	1
1	01-071300		BLOCK, SHUTTLE VALVE	1
2	01-071200		VALVE KIT, SHUTTLE	6
3			SEAT (with "O"-Ring)	2
4			BALL	1
5	06-039900		CONNECTOR, STRAIGHT THREAD (6-8 F50X)	12
6	06-096200		UNION (8 F50 F50)	2
7	01-019000		VALVE, FLOW CONTROL (Needle valve) (#8 SAE Ports)	2
8	06-044800		ELBOW, STRAIGHT THREAD (8 C50X)	2
9	06-044700		ELBOW, STRAIGHT THREAD (6-8 C50X)	2
10	06-079000		ADAPTER, PIPE THREAD (6 F65X)	2
11	01-018900		VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports)	2
12	06-039800		CONNECTOR, STRAIGHT THREAD (6 F50X)	2
13	06-040100		CONNECTOR, STRAIGHT THREAD (8 F50X)	3
14	3515610		TUBE ASSEMBLY (left hand)	1
15	3515600		TUBE ASSEMBLY (right hand)	1
16	06-048600		RUN TEE, STRAIGHT THREAD (8 R50X)	1
17	06-090400		REDUCER/ EXPANDER (6-8 F50G5)	1
18			VALVE, PRESSURE REDUCING	
	01-012800		(100 to 3,000 PSI, 10 GPM) (MP 70 and smaller)	1
	01-082400		(100 to 3,000 PSI, 20 GPM) (MP 80 and larger)	1
19	06-039900		CONNECTOR, STRAIGHT THREAD (6-8 F50X)	1
20	06-057600		NUT, TUBE (8 BTX) (MP 70 and smaller)	1
	06-057800		NUT, TUBE (12 BTX) (MP 80 and larger)	1
21	06-079000		ADAPTER, PIPE THREAD (6 F65X)	2
22	06-060300		REDUCER, TUBE END (8-6 TRTX)	1
23			VALVE, FLOW CONTROL (Needle valve)	
	01-018900		(#6 SAE Ports) (MP 70 and smaller)	2
	01-019000		(#8 SAE Ports) (MP 80 and larger)	2
24	06-039800		CONNECTOR, STRAIGHT THREAD (6 F50X)	2
25	07-003013		CAP SCREW, HEX HEAD (1/4"-20 x 3")	2
26	07-060014		WASHER, FLAT (1/4" SAE)	2
27	07-050014		NUT, STOP (1/4"-20)	2
28	2126710		BRACKET, SHUTTLE VALVE MOUNTING (ref.)	1

TITLE: SHUTTLE VALVE ASSEMBLY, MP (FULL HYDRAULIC)

PLATE NO. C02.34 | **SIMON AERIALS INC.** NEW 08/26/91 | PART NO.



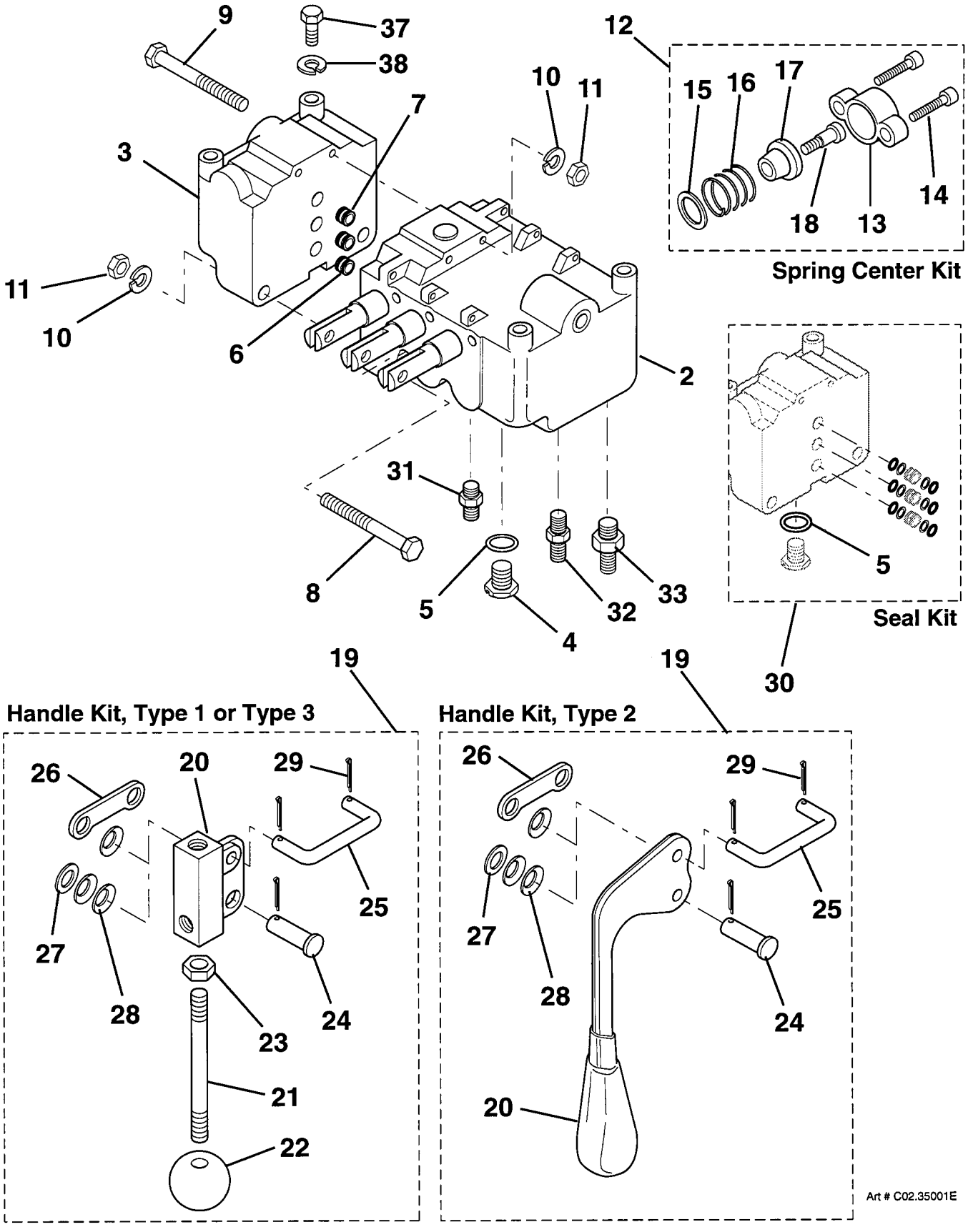
TITLE	SHUTTLE VALVE ASSEMBLY, MP (FULL HYDRAULIC)		
SIMON AERIALS INC.	NEW 08/26/91	PART NO.	PLATE NO. C02.34

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			GROUND VALVE BANK ASSEMBLY	
	352 4480		with "Type 1" or "Type 2" Handle (Item19)	
	353 4260		with "Type 3" Handle (Item19)	
	354 4270		for special MP 70 application	
1			VALVE BANK ASS'Y., GROUND CONTROL (3 Spool)	1
	01-207000		with "Type 1" or "Type 2" Handle (Item19)	
	01-226600		with "Type 3" Handle (Item19)	
2	01-207006		INLET SECTION, 3 SPOOL	1
3			END SECTION	1
4			PLUG, HEX HEAD	1
5			"O"-RING (also part of Seal Kit, item 30)	1
6	01-098416		TUBE ASSEMBLY, FEEDER (11/16" O.D.)	1
7	01-098415		TUBE ASSEMBLY, FEEDER (3/4" O.D.)	2
8			CAP SCREW, HEX HEAD (1/4"-20 x 2-1/4", Grade 5)	2
9	07-003013		CAP SCREW, HEX HEAD (1/4"-20 x 3", Grade 5)	2
10			WASHER, HELICAL LOCK (1/4")	4
11			NUT, HEX (1/4"-20, Grade 5)	4
12	01-207005		SPRING CENTER KIT	4
13			CAP, END	1
14			SCREW	2
15			WASHER	1
16			SPRING, RETURN	1
17			SPACER	1
18			BOLT, SHOULDER	1

TITLE VALVE BANK ASSEMBLY, GROUND (LIFT, SWING, TELESCOPE) (1 OF 2)

PLATE NO. C02.35 | **SIMON AERIALS INC.** REV. 14 SEP, 1995 | PART NO.



TITLE VALVE BANK ASSEMBLY, GROUND (LIFT, SWING, TELESCOPE) (1 OF 2)

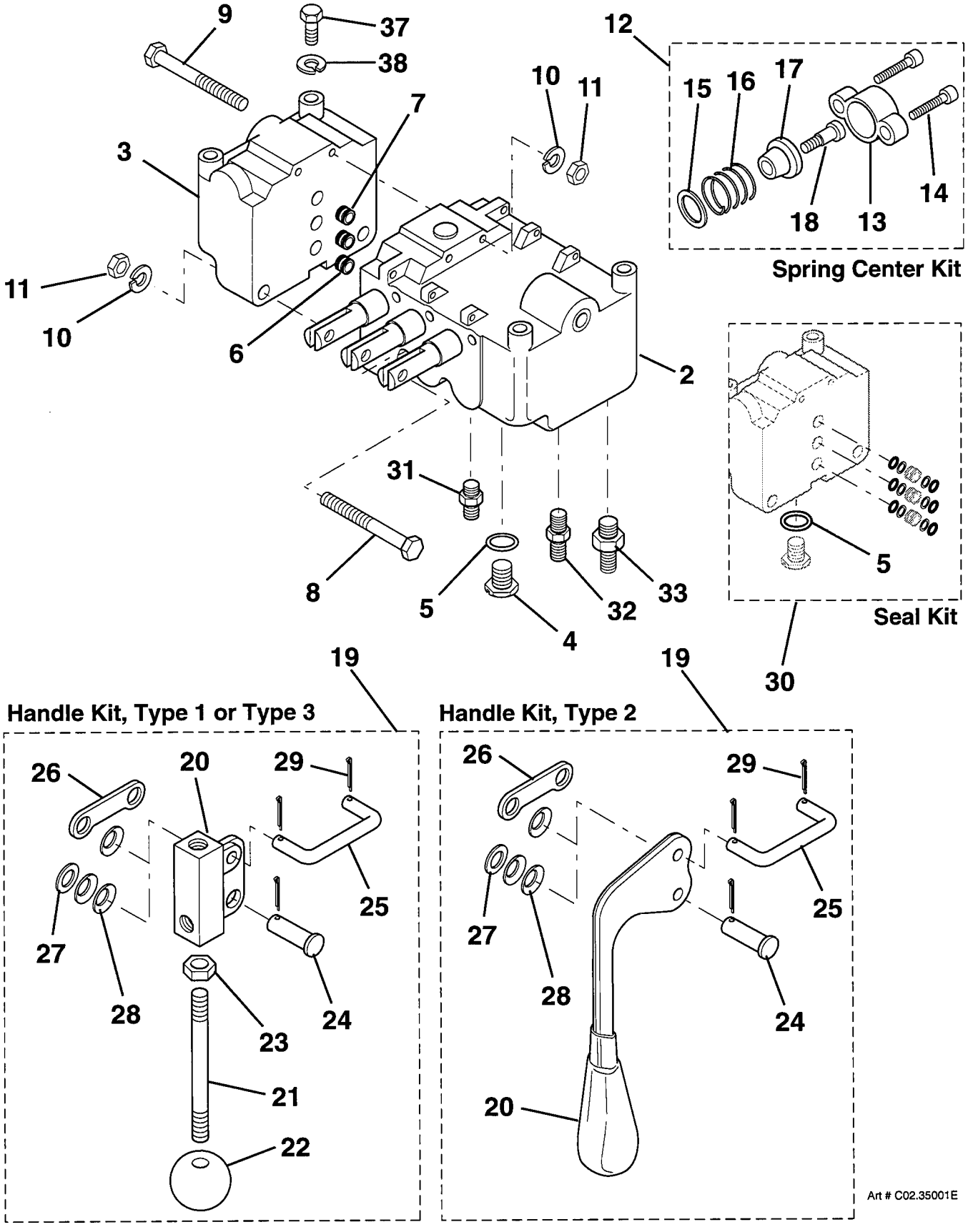
SIMON AERIALS INC.	REV. 14 SEP, 1995	PART NO.	PLATE NO. C02.35

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
19			HANDLE KIT	3
	01-098701		Type 1 (handle is a 3" [76 mm] long threaded rod, with a separate ball knob)	
	01-207002		Type 2 (has a one-piece handle)	
	01-098902		Type 3 (handle is a 5-3/4" [146 mm] long threaded rod, with a separate ball knob)	
20	01-098402		BLOCK, PIVOT (for Type 1 or Type 3 handle)	1
	01-207003		HANDLE (for Type 2 only)	1
21			ROD, HANDLE	1
	01-098406		3" (76 mm) long	
	01-098503		5-3/4" (146 mm) long	
22	01-098407		KNOB, BALL (Plastic)	1
23	01-098408		NUT, JAM	1
24	01-098403		PIN, CLEVIS	1
25	01-098413		"C"-HOOK	1
26	01-098414		LINK	2
27	01-098411		WASHER, FLAT	1
28	01-098409		WASHER, SPRING (use 1 with link, 2 without link)	A.R.
29	01-207004		PIN, COTTER	3
30	01-207001		SEAL KIT	1
31	06-039900		ADAPTER, "O"-RING TO 37° (6-8 F5OX-S)	6
32	06-040000		ADAPTER, "O"-RING TO 37° (6-10 F5OX-S)	1
33	06-041000		ADAPTER, "O"-RING TO 37° (12-10 F5OX-S)	1
34	01-018900		VALVE, FLOW CONTROL (Needle valve) #6 SAE Ports)	
			(not used on assembly 354 4270)	1
35	06-047000		45° ELBOW, "O"-RING TO 37° (6 V5OX-S)	
			(not used on assembly 354 4270)	1
36	06-079000		CONNECTOR, SWIVEL NUT (6 F65OX-S)	
			(not used on assembly 354 4270)	1
37			CAP SCREW, HEX HEAD	4
	07-003449		5/16"-24 x 1/2" (some versions)	
	07-003450		5/16"-24 x 3/4" (some versions), used with . . .	
	07-062015		WASHER, FLAT (5/16")	4
38	07-065015		WASHER, HELICAL LOCK (5/16")	4

TITLE VALVE BANK ASSEMBLY, GROUND (LIFT, SWING, TELESCOPE) (2 OF 2)

PLATE NO.	C02.35	SIMON AERIALS INC.	REV. 14 SEP. 1995	PART NO.



TITLE VALVE BANK ASSEMBLY, GROUND (LIFT, SWING, TELESCOPE) (2 OF 2)

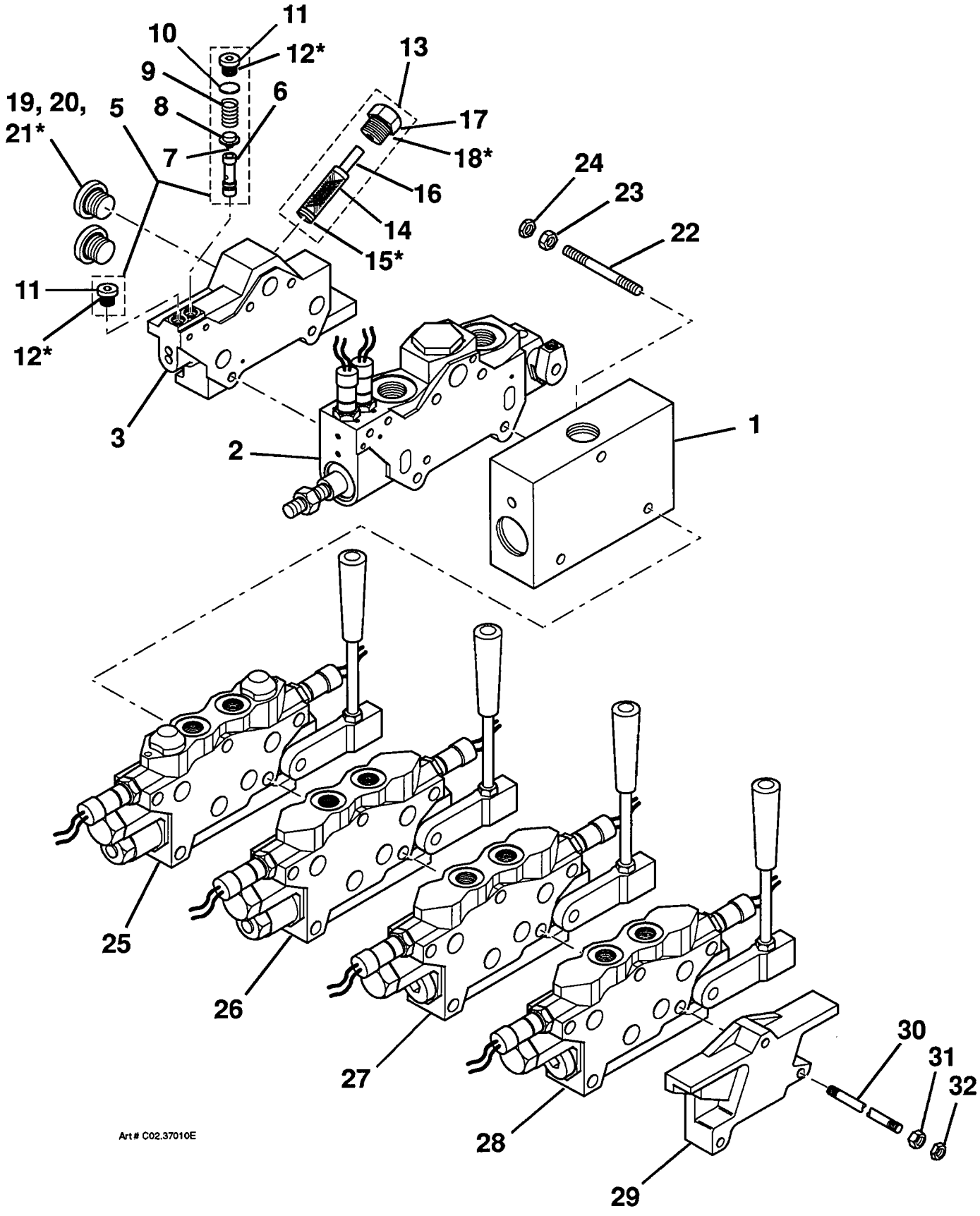
SIMON AERIALS INC. REV. 14 SEP, 1995 | PART NO. | PLATE NO. C02.35

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			GROUND VALVE BANK ASSEMBLY,	
	01-215300		For Model MP 40 or MPN 40	1
	01-207800		For Model MP 60	1
	01-210500		For Model MPN 60 or MP 60 Z	1
	01-210600		For Model MP 80	1
	01-210900		For Model MP 95	1
	01-211000		For Model MP 110	1
1			MANIFOLD, ADAPTER	1
2	See plate . .	D13.06	VALVE SEGMENT, DRIVE CONTROL	1
3	01-211017		INLET, LOAD SENSING	1
4	01-211020		SEAL KIT, INLET (includes all items marked with asterisk*)	1
5	01-211018		PILOT REDUCING KIT	1
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	01-211002		INLET FILTER KIT	1
14			FILTER	1
15		*	"O"-RING	1
16			TUBE, FILTER EXTENSION	1
17			PLUG, SOCKET	1
18		*	"O"-RING	1
19	01-211019		PLUG, SAE PORT	2
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	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, TYPE 2)

PLATE NO. C02.37 | **SIMON AERIALS INC.** REV. 05 JUN., 1992 | PART NO.



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

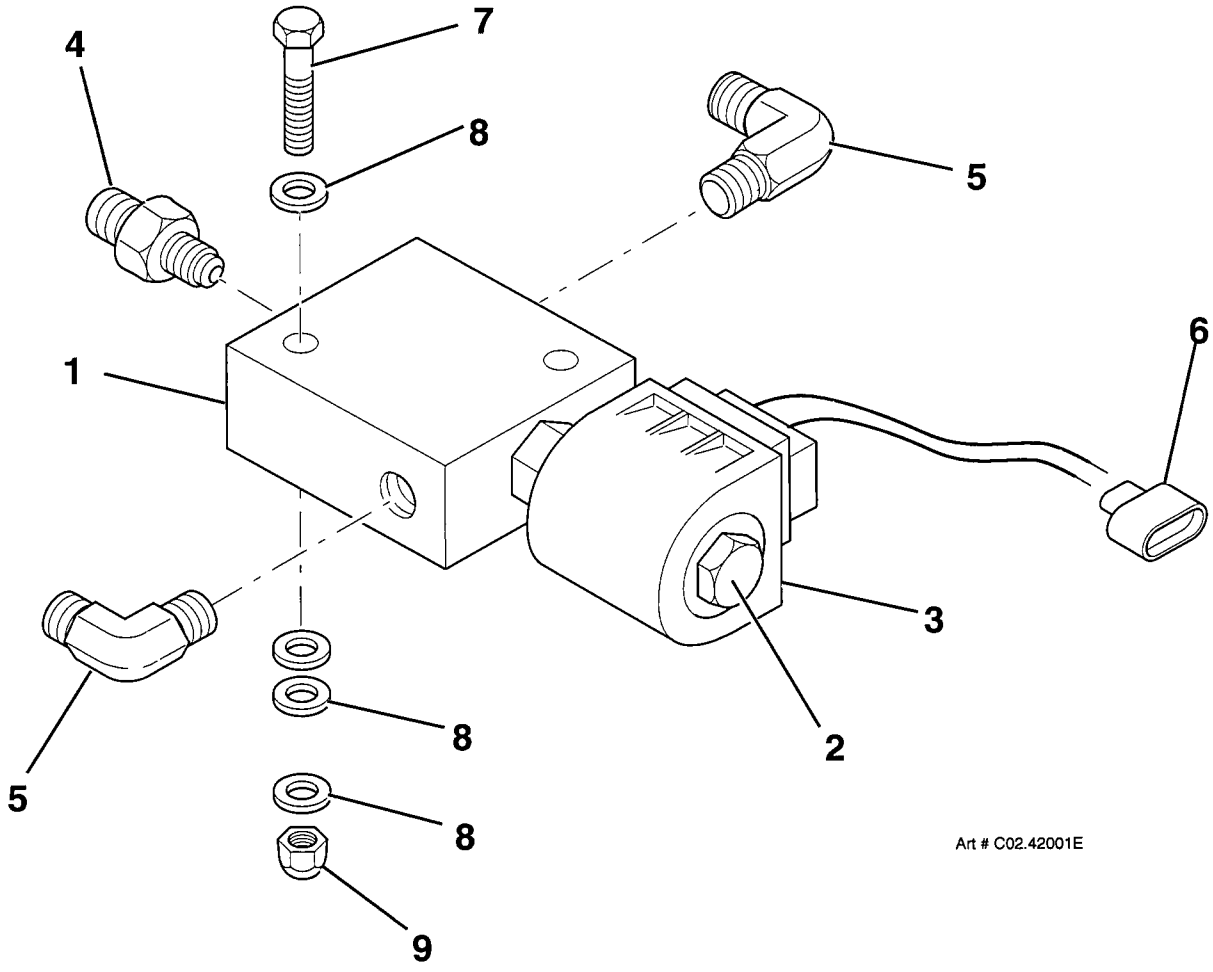
SIMON AERIALS INC. REV. 05 JUN., 1992	PART NO.	PLATE NO. C02.37

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)

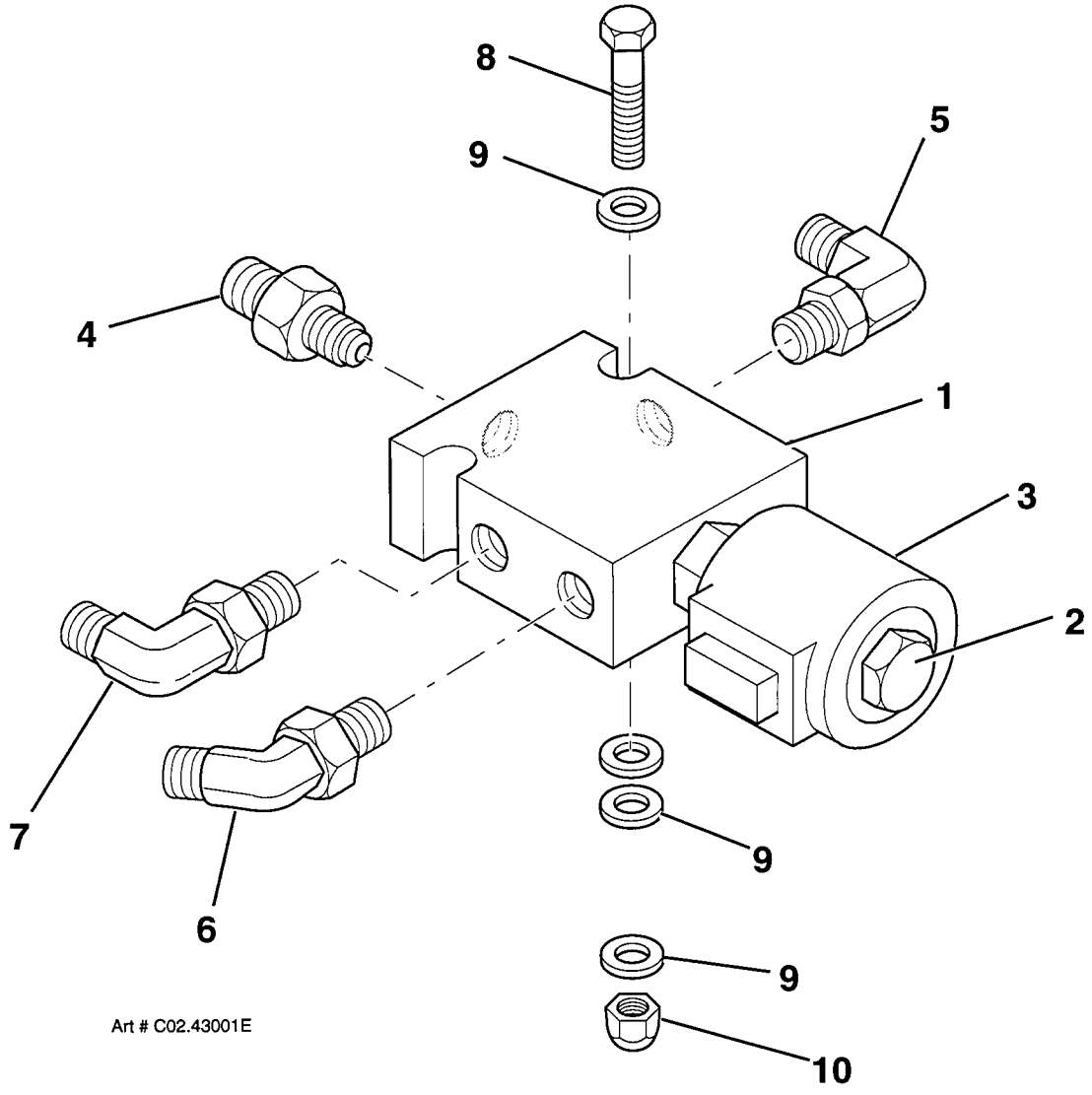
SIMON AERIALS INC. NEW 06 SEP., 1995	PART NO. 354 4170	PLATE NO. C02.42

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

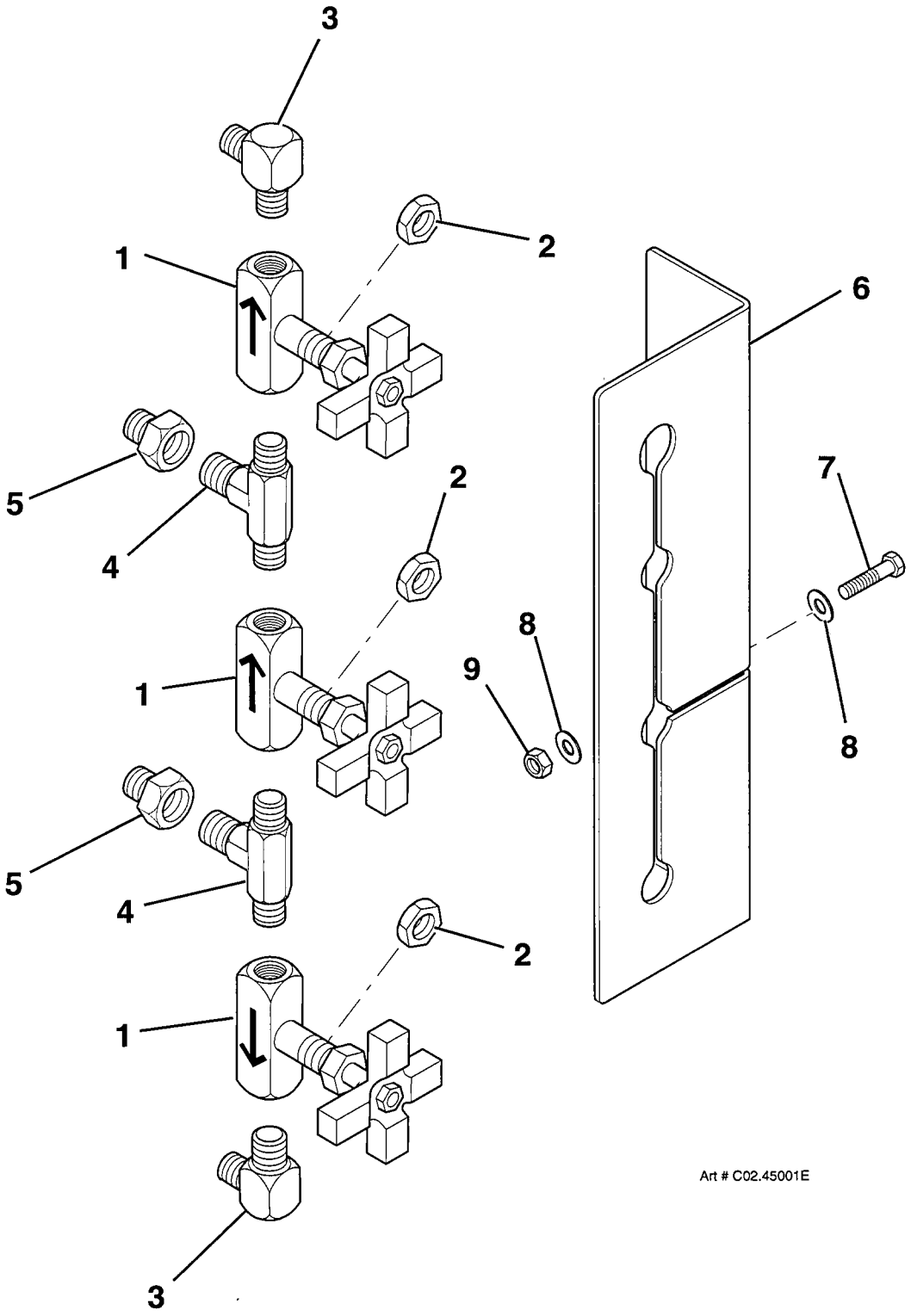
TITLE TWO-SPEED VALVE ASSEMBLY (MP SERIES, WITH FOUR WHEEL DRIVE)

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

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	354 4720		MANUAL DESCENT VALVE ASSEMBLY With option, MP 40 through MP 80	1
1	01-034800		VALVE, NEEDLE (1/4" NPT)	3
2	07-047121		NUT, HEX JAM (5/8"-18, Grade 5)	3
3	06-003800		90° ELBOW, MALE 37° TO NPT (6 CTX-S)	2
4	06-196500		TEE, MALE PIPE (4 RRS-S)	2
5	06-196600		CONNECTOR, FEMALE 37° TO NPT (6 GTX-S)	2
6	231 3070		BRACKET, VALVE MOUNTING	1
7	07-003005		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	2
8	07-062014		WASHER, FLAT (1/4")	4
9	07-050014		NUT, STOP (1/4"-20)	2
			The following item is not shown, but is required with manual descent valves. It mounts to the Boom Lift Cylinder:	
10	205 5644		FITTING, ORIFICED (4 C5OX-S with .032" orifice)	

TITLE	MANUAL DESCENT VALVE ASSEMBLY		
PLATE NO. C02.45	**SIMON AERIALS INC.**	NEW 05 SEP., 1995	PART NO.



Art # C02.45001E

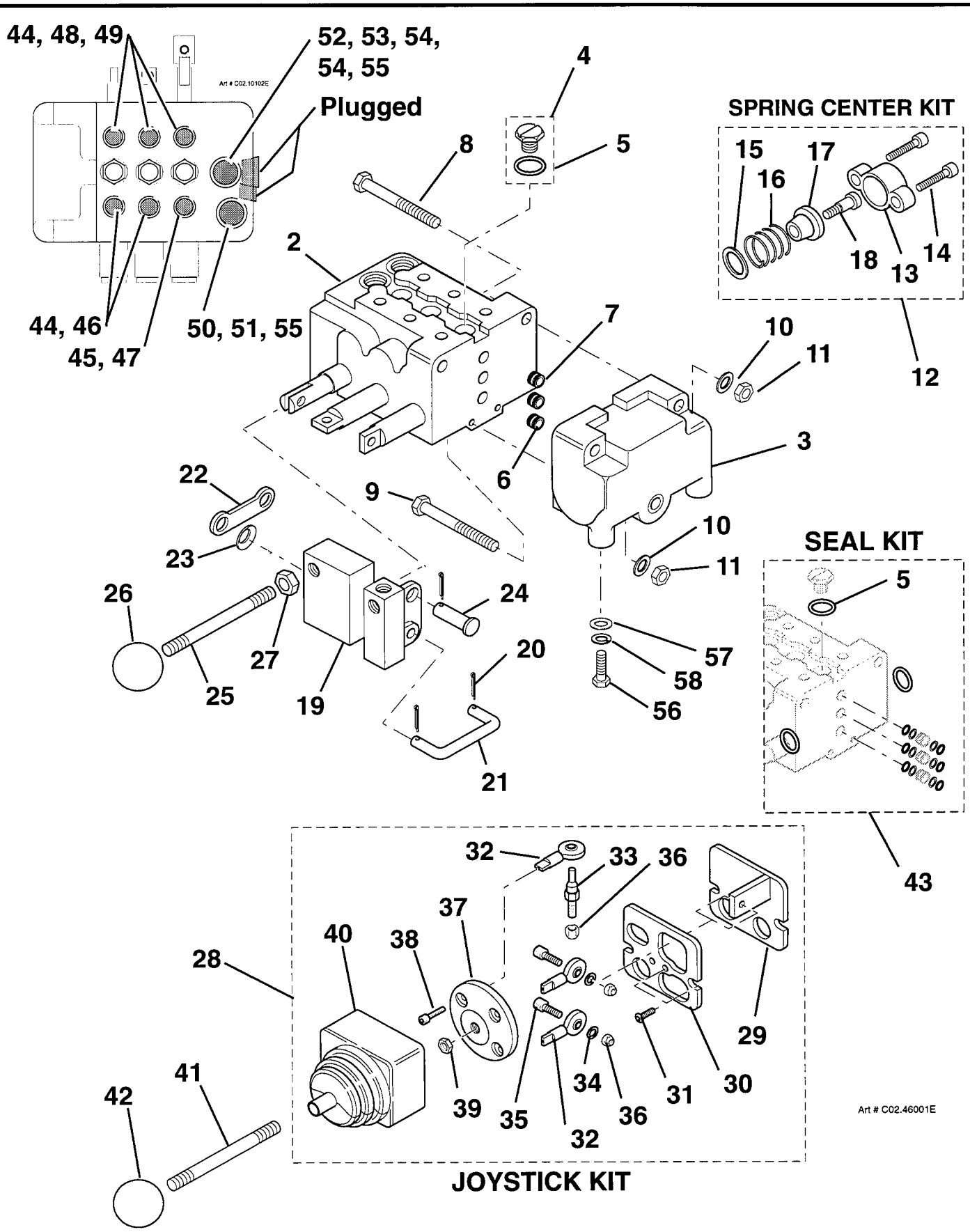
TITLE	MANUAL DESCENT VALVE ASSEMBLY		
SIMON AERIALS INC. NEW 05 SEP., 1995		PART NO.	PLATE NO. C02.45

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	354 4110		VALVE BANK ASSEMBLY, PLATFORM CONTROL for MP Series	1
1	219 9300		VALVE BANK, PLATFORM CONTROL (3 spool) (modified 01-216000)	1
2			INLET SECTION, 3 SPOOL	1
3			END PLATE	1
4			PLUG, HEX HEAD	3
5			"O"-RING (also part of Seal Kit, item 43)	1
6	01-098415		TUBE ASSEMBLY, FEEDER (3/4" O.D.)	2
7	01-098416		TUBE ASSEMBLY, FEEDER (11/16" O.D.)	1
8			BOLT, HEX HEAD (1/4"-20 x 2-1/4", Grade 5)	2
9			BOLT, HEX HEAD (1/4"-20 x 3", Grade 5)	2
10			WASHER, SPLIT LOCK (1/4")	4
11			NUT, HEX (1/4"-20, Grade 5)	4
12	01-216003		SPRING CENTER KIT	3
13			CAP, END	1
14			SCREW	2
15			WASHER	1
16			SPRING, RETURN	1
17			SPACER	1
18			BOLT, SHOULDER	1
19	219 9301		BLOCK, PIVOT	1
20	01-098403		PIN, CLEVIS	1
21	01-098413		"C"-HOOK	1
22	01-098414		LINK	1
23	01-098409		WASHER, SPRING	1
24	01-098412		PIN, COTTER	3
25	01-098503		ROD, HANDLE (5-3/4" [146 mm] long)	1
26	01-098407		KNOB, BALL (Plastic)	1
27	01-098408		NUT, JAM	1

TITLE PLATFORM VALVE BANK ASSEMBLY, 3 SPOOL (PLATE 1 OF 2)

PLATE NO. C02.46 | **SIMON AERIALS INC.** REV. 14 JAN., 1996 | PART NO.



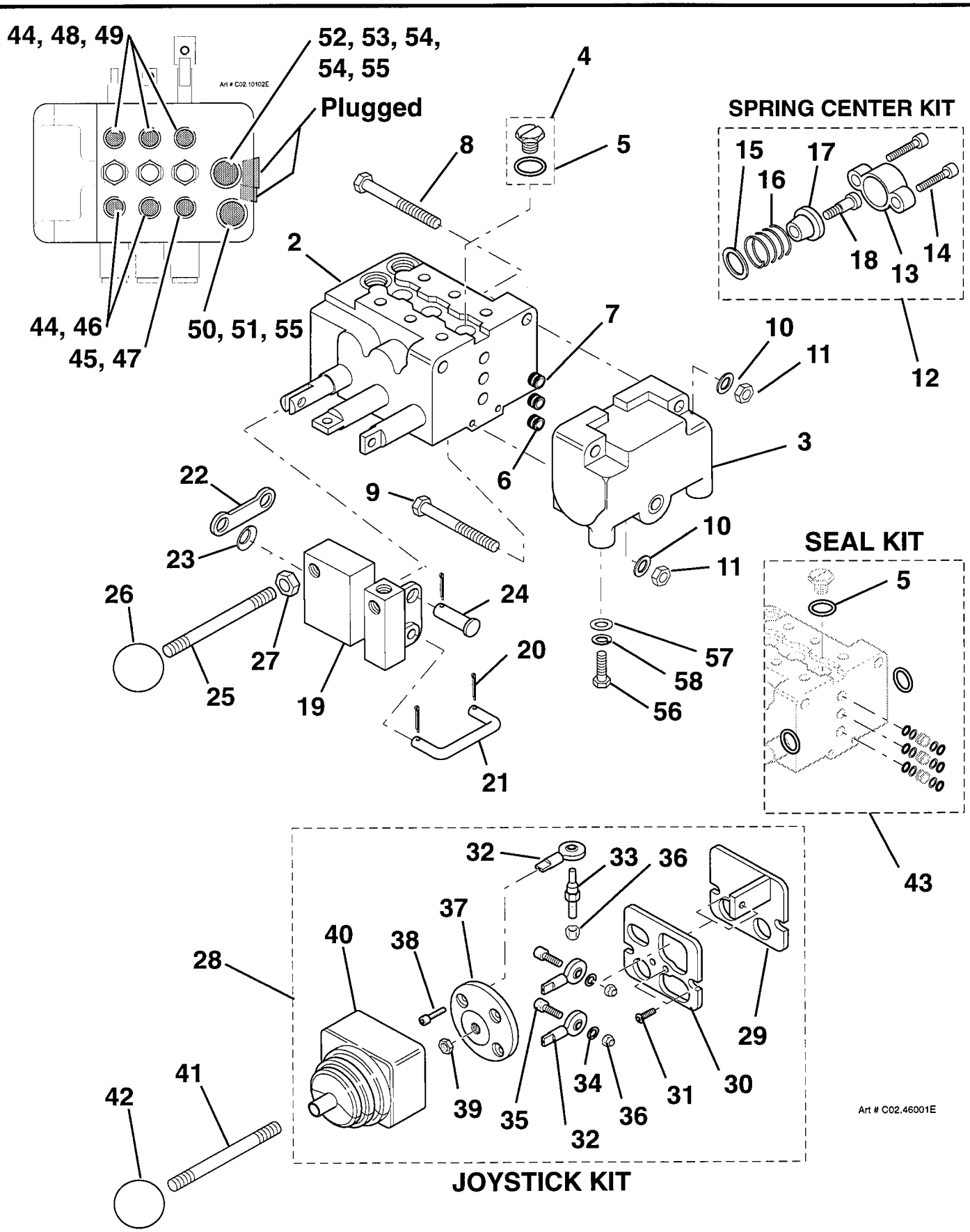
TITLE	PLATFORM VALVE BANK ASSEMBLY, 3 SPOOL (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 14 JAN., 1996		PART NO.	PLATE NO. C02.46

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			VALVE BANK, PLATFORM CONTROL (continued)	
28	01-216002		JOYSTICK KIT	1
29			BRACKET ASSEMBLY	1
30			PLATE, BOOT RETAINING	1
31			SCREW, BUTTON HEAD (1/2" long)	2
32			ROD END	3
33			STUD, ACTUATOR	1
34			SPACER	2
35			CAP SCREW, SOCKET HEAD (1" long)	2
36			NUT, JAM	3
37			ADAPTER, HANDLE	1
38			CAP SCREW, SOCKET HEAD (3/4" long)	3
39			NUT, JAM	1
40	01-216004		BOOT, JOYSTICK	1
41	01-098503		ROD, HANDLE (5-3/4" [146 mm] long)	1
42	01-098407		KNOB, BALL (Plastic)	1
			The following items **are not** included with the Valve Bank (Item 1), but **are** included with the Valve Bank **Assembly**:	
43	01-216001		SEAL KIT (will service 3 Spools)	1
44	06-090600		REDUCER/ EXPANDER (8-6 F5OG5-S)	5
45	06-040100		ADAPTER, "O"-RING TO 37° (8 F5OX-S)	1
46	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	2
47	06-051600		90° ELBOW, SWIVEL NUT (8 C6X-S)	1
48	06-043000		ADAPTER (LONG), "O"-RING TO 37° (6 FF5OX-S)	3
49	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	3
50	06-045000		90° ELBOW, "O"-RING TO 37° (8-10 C5OX-S)	1
51	06-054600		RUN TEE, 37° FEMALE SWIVEL NUT (8 R6X-S)	1
52	06-040300		ADAPTER, "O"-RING TO 37° (8-10 F5OX-S)	1
53	06-054600		RUN TEE, 37° FEMALE SWIVEL NUT (8 R6X-S)	1
54	06-051600		90° ELBOW, SWIVEL NUT (8 C6X-S)	2
55	06-053100		45° ELBOW, SWIVEL NUT (8 V6X-S)	2
56	07-003450		CAP SCREW, HEX HEAD (5/16"-24 x 3/4", Grade 5)	4
57	07-062015		WASHER, FLAT (5/16")	4
58	07-065015		WASHER, HELICAL LOCK (5/16")	4

TITLE PLATFORM VALVE BANK ASSEMBLY, 3 SPOOL (PLATE 2 OF 2)

PLATE NO. C02.46 | **SIMON AERIALS INC.** REV. 14 JAN., 1996 | PART NO.

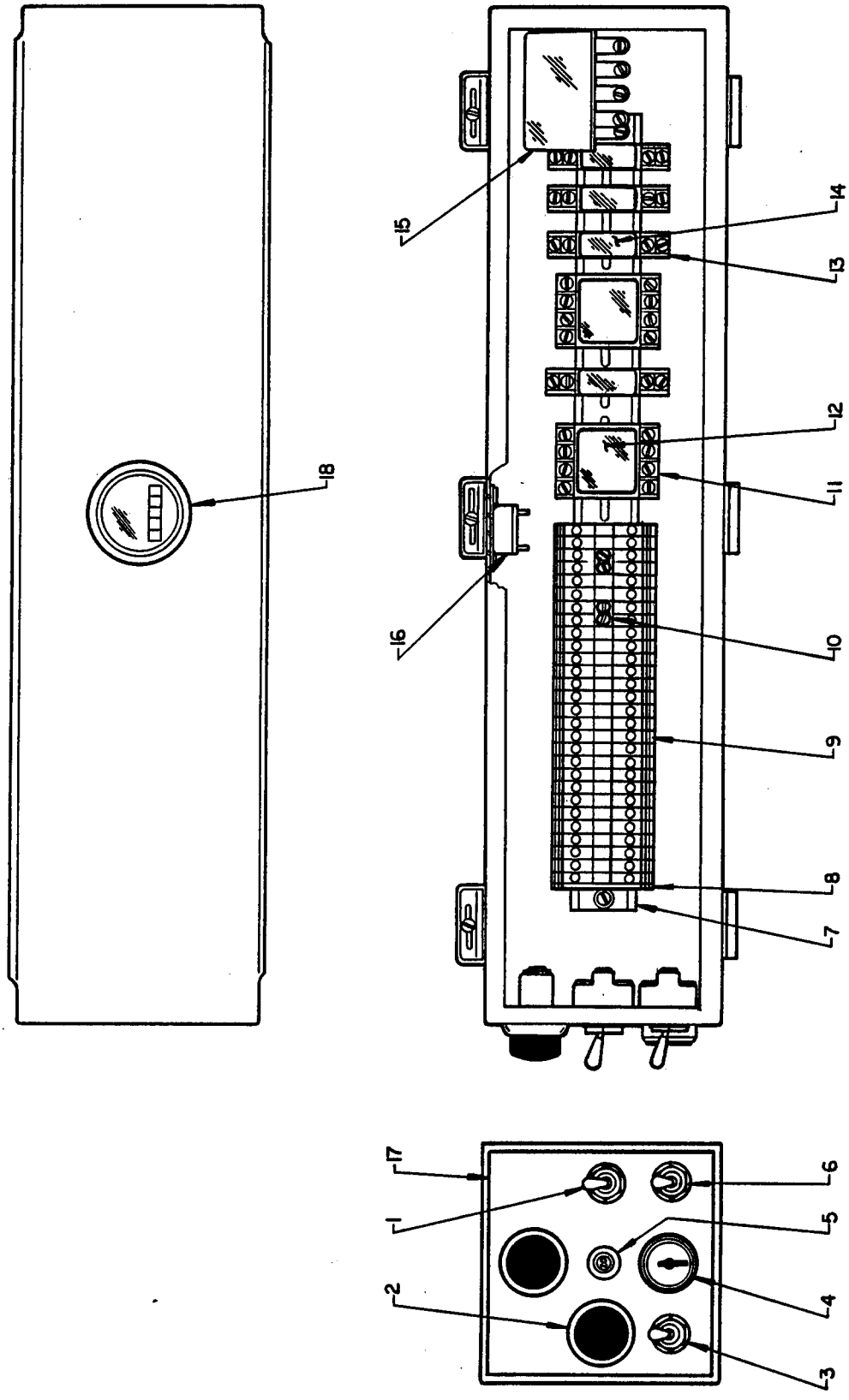


TITLE	PLATFORM VALVE BANK ASSEMBLY, 3 SPOOL (PLATE 2 OF 2)
SIMON AERIALS INC. REV. 14 JAN., 1996	PART NO. / PLATE NO. C02.46

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	10-026000		DECAL	1
18	03-030500		HOURMETER	1

DESCRIPTION	PART NO.
GROUND CONTROL BOX (DIESEL ENGINE)	CAA-207265-0



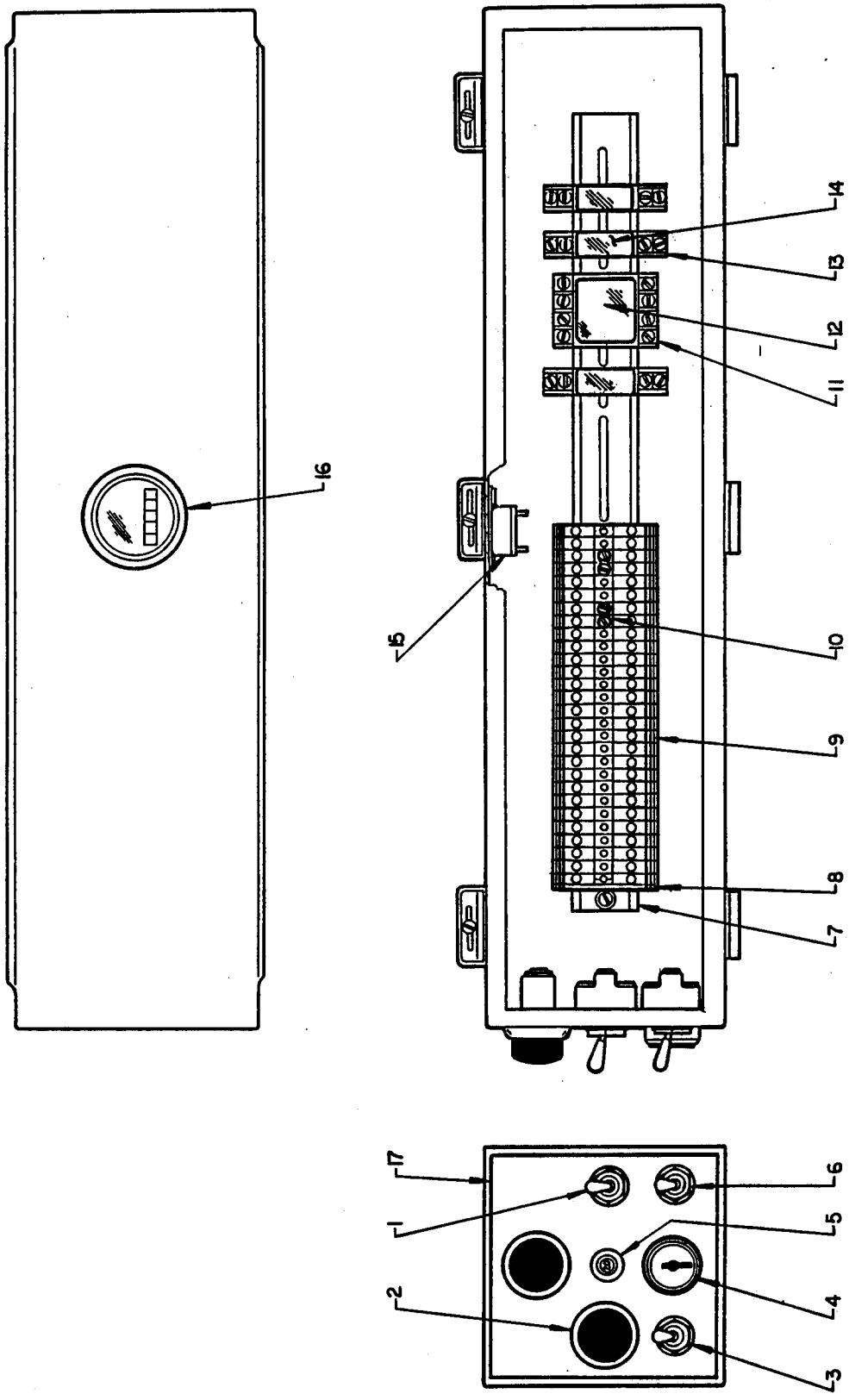
0385/1184

DESCRIPTION	PART NO.
GROUND CONTROL BOX (DIESEL ENGINE)	CAA-207265-0

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	03-024700		CIRCUIT BREAKER, 20 AMP	1
16	03-030500		HOURMETER	1
17	10-026000		DECAL	1

DESCRIPTION	PART NO.
GROUND CONTROL BOX (GAS ENGINE)	CAA-208463-9



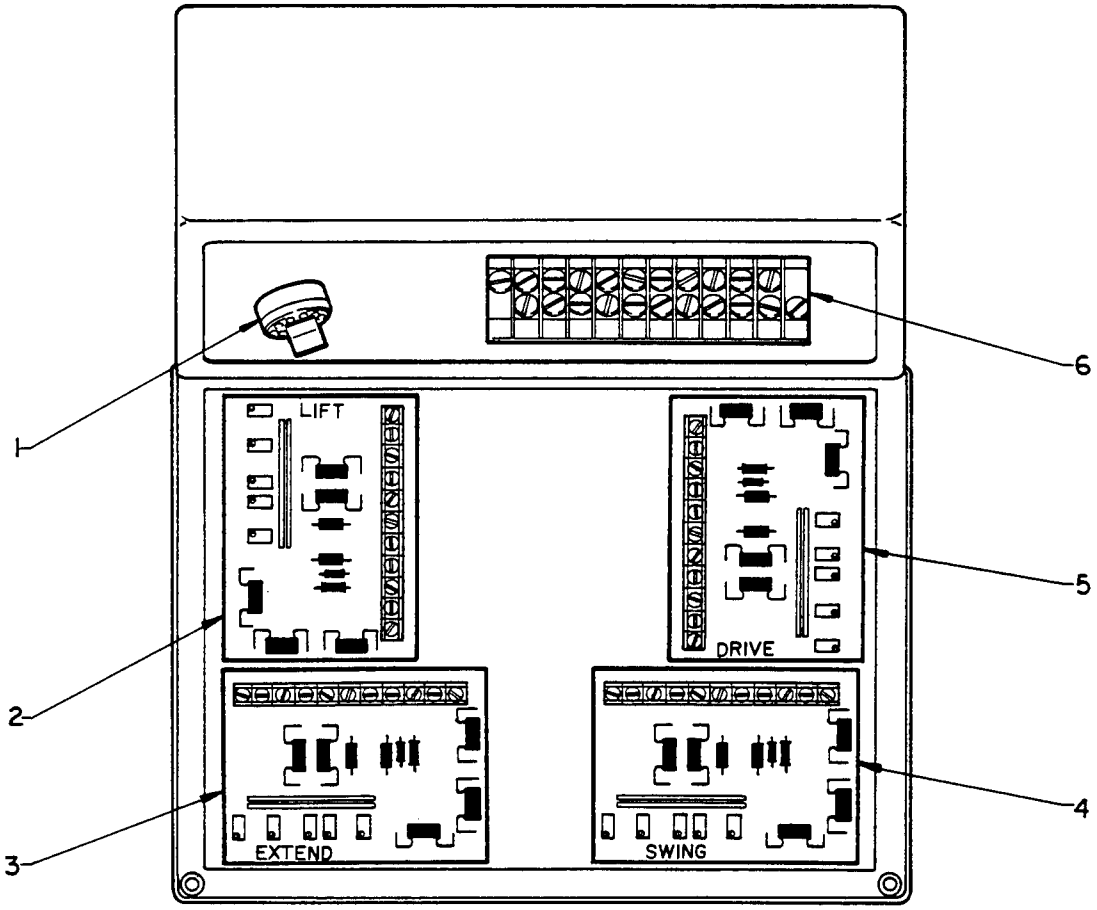
0385/1184

DESCRIPTION	PART NO.
GROUND CONTROL BOX (GAS ENGINE)	CAA-208463-9

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

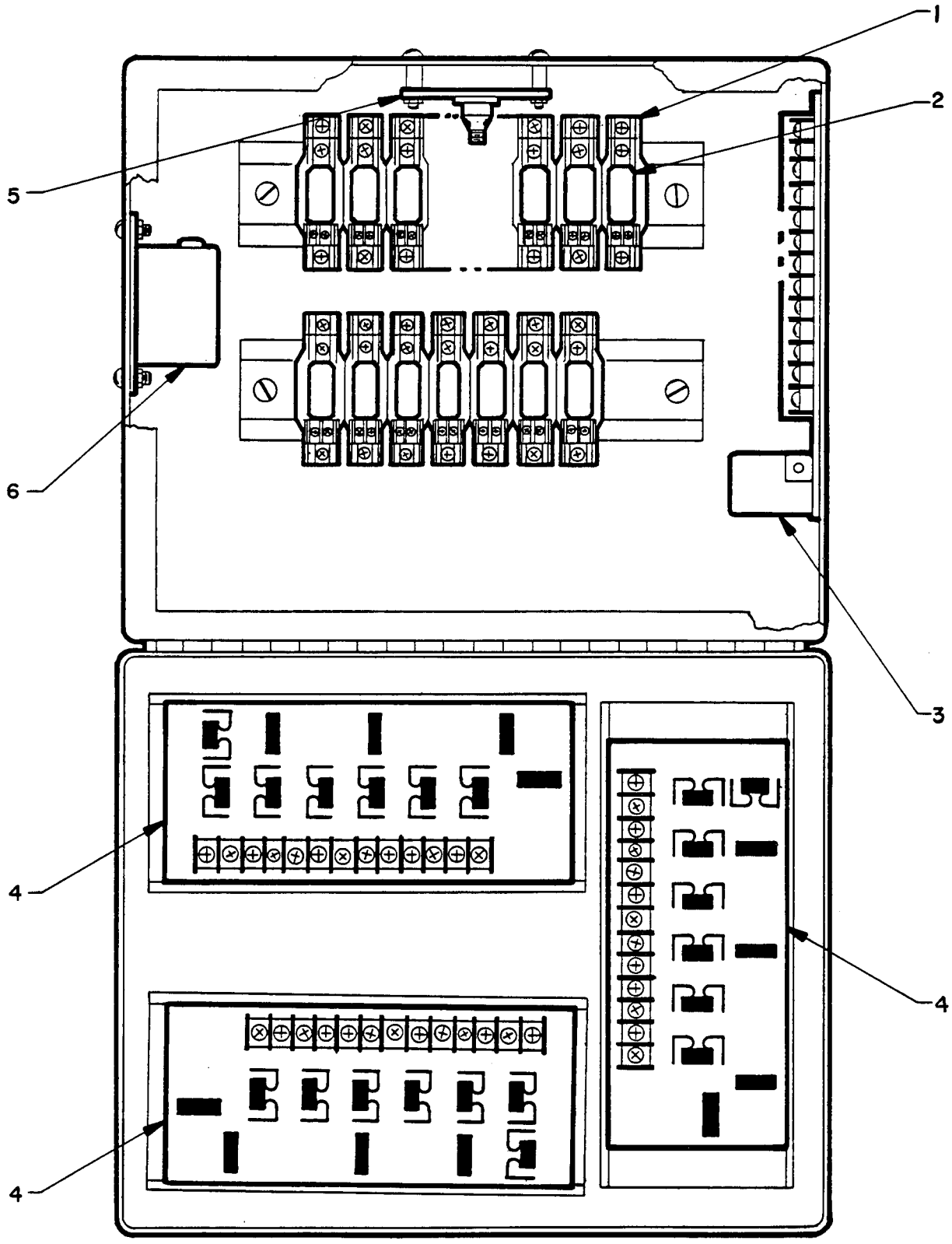
DESCRIPTION	PART NO.
GROUND CONTROL BOX (PROPROTIONAL CONTROLS)	CAA-208493-4

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-051600		RELAY BASE	15
2	03-051500		RELAY, DPST	15
3	03-039800		RECEIVER BOARD	1
4	03-039700		OUTPUT BOARD	3
5	03-039801		AMPLIFIER CARD	1
6	03-408100		NOISE SUPRESSOR	1

DESCRIPTION	PART NO.
GROUND CONTROL BOX - FIBER OPTIC CONTROLS	

C3.17



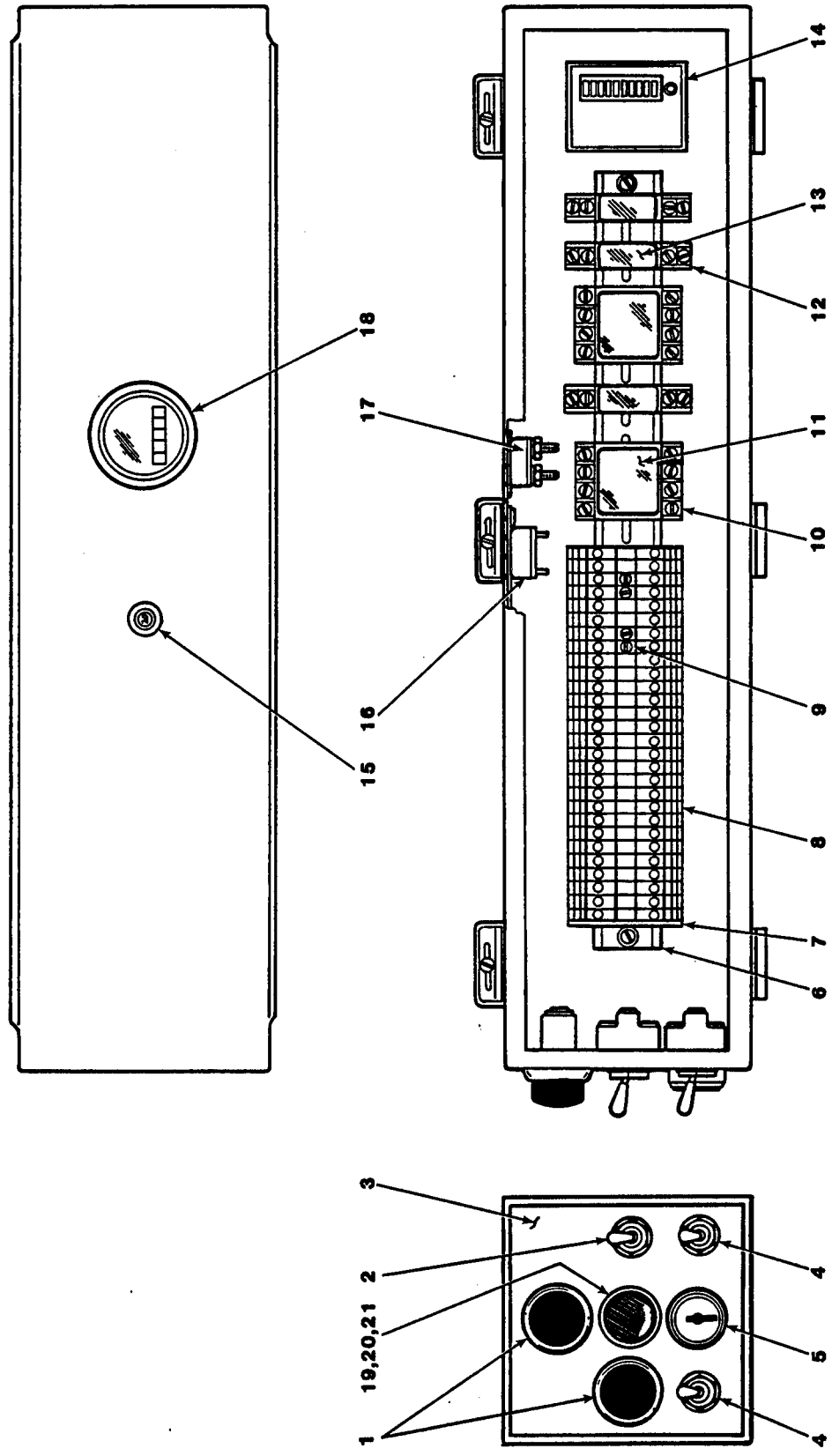
0386

DESCRIPTION	PART NO.
GROUND CONTROL BOX - FIBER OPTIC CONTROLS	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-020300		PUSH BUTTON (ENGINE START, EMG. POWER)	2
2	03-020700		TOGGLE SWITCH, 4PDT (GROUND OVERRIDE)	1
3	10-026000		DECAL	1
4	03-020400		TOGGLE SWITCH, SPST (IGNITION, RPM)	2
5	03-021000		KEYSWITCH	1
6	03-051900		MOUNTING RAIL	14"
7	03-066100		END PLATE	1
8	03-066200		TERMINAL BLOCK	30
9	03-066300		LINE JUMPER	2
10	03-051800		RELAY BASE	2
11	03-050100		CONTROL RELAY, DPDT	2
12	03-051600		RELAY BASE	3
13	03-051500		CONTROL RELAY, SPST	3
14	03-052800		CONTROL RELAY, TIME DELAY	1
15	03-024000		CIRCUIT BREAKER, 20 AMP	1
16	03-024700		CIRCUIT BREAKER, 20 AMP	1
17	03-024100		CIRCUIT BREAKER, 10 AMP	1
18	03-030500		HOURMETER	1
19	03-402500		CHOKE SWITCH, DPST	1
20	03-402600		BEZEL, CHOKE SWITCH OPERATOR	1
21	03-402800		SWITCH OPERATOR, CHOKE	1

DESCRIPTION	PART NO.
GROUND CONTROL BOX	



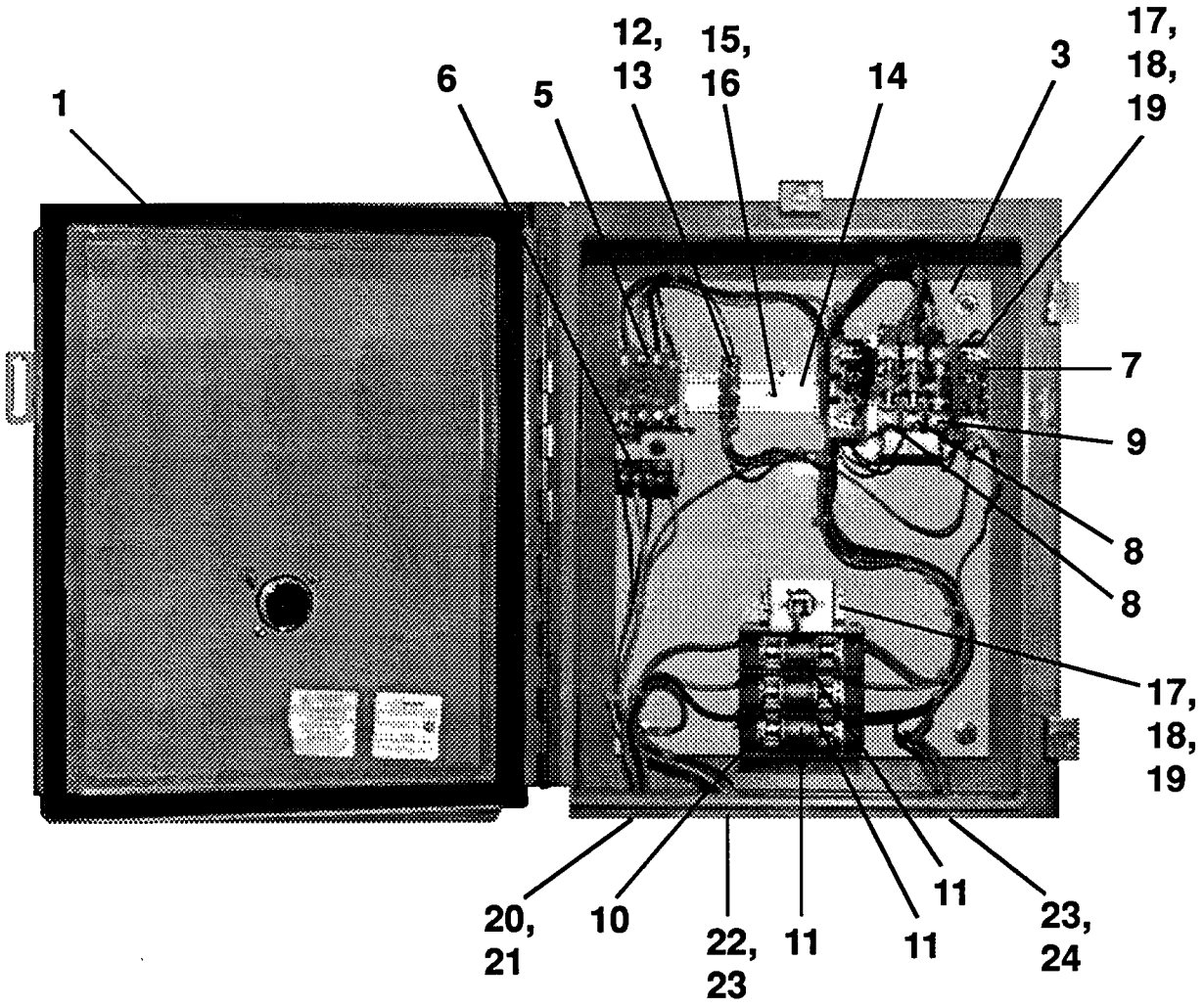
0586/0486

DESCRIPTION	PART NO.
GROUND CONTROL BOX	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2182050		ENCLOSURE, CONTROL ASSEMBLY, AC	1
2	03-478600		ENCLOSURE	1
3	2182060		PANEL	1
4	03-478700		PANEL	1
5	03-477700		STARTER, MOTOR	1
6	03-477701		RELAY, OVERLOAD	1
7	03-478000		TRANSFORMER	1
8	03-470500		FUSE, 1 AMP	2
9	03-470600		FUSE, 2 1/2 AMP	1
10	03-477600		DISCONNECT, FUSED	1
11	03-478100		FUSE, 15 AMP	3
12	03-051600		BASE, RELAY	1
13	03-051500		RELAY	1
14	2178190		TRACK	1
15	07-011335		SCREW, ROUND HEAD (#6-32 X 1/2")	2
16	07-050007		NUT, HEX LOCK (#6-32)	2
17	07-003002		SCREW, CAP HEX HEAD (1/4"-20 X 5/8")	8
18	07-065014		WASHER, LOCK (1/4")	8
19	07-040014		NUT, HEX (1/4"-20)	8
20	03-063200		CORD GRIP (3/4")	1
21	03-055600		NUT, CONDUIT (3/4")	1
22	03-041000		CORD GRIP (1/2")	2
23	03-055500		NUT, CONDUIT (1/2")	3
24	03-062900		CONNECTOR	1
25	10-118900		DECAL, 2 1/2 AMP (Not Shown)	1
26	10-118800		DECAL, 1 AMP (Not Shown)	2
27	10-118700		DECAL 15 AMP (Not Shown)	3
28	10-119400		DECAL, 575 VOLT (Not Shown)	1
29	2182070		DECAL, AC BOX (Not Shown)	1
30	03-478800		CABLE, 4 CONDUCTOR, 14 GAUGE (bulk, order in feet) (Not Shown)	55'

TITLE	AC CONTROL ASSEMBLY		
PLATE NO. C03.27	**SIMON AERIALS INC.**	REV. 04/5/91	PART NO. 2182080

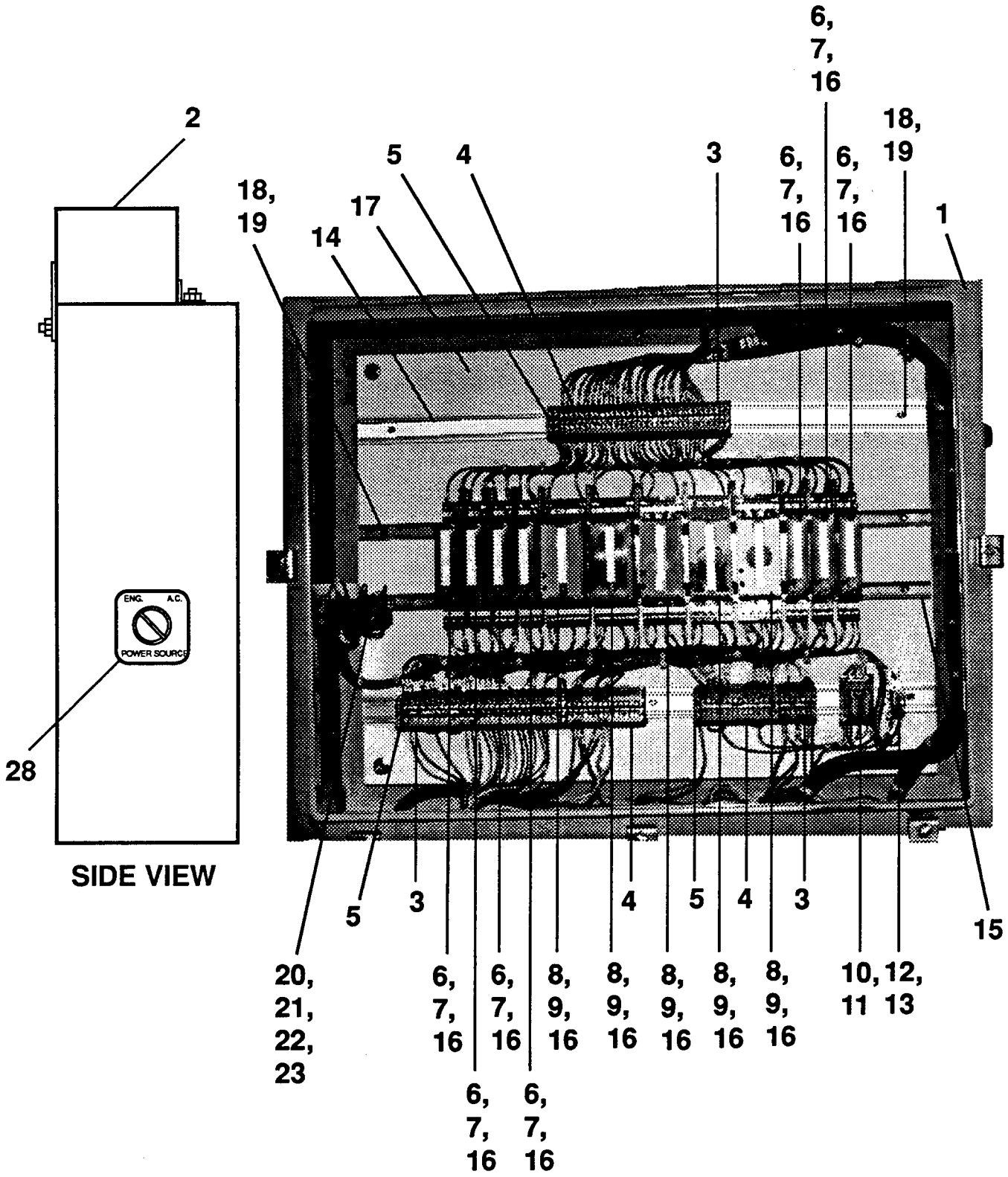


TITLE	AC CONTROL ASSEMBLY		
SIMON AERIALS INC. REV. 04/5/91	PART NO. 2182080	PLATE NO. C03.27	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2181930		ENCLOSURE	1
2	03-039000		POWER INVERTER	1
3	03-039100		TERMINAL BLOCK, GROUNDING	10
4	03-066200		TERMINAL BLOCK	96
5	03-066100		PLATE, END	3
6	03-052300		BASE, RELAY	7
7	03-052400		RELAY	7
8	03-052100		BASE, RELAY	5
9	03-052200		RELAY	5
10	03-037500		BASE, RELAY	1
11	03-479400		RELAY, DOUBLE POLE SINGLE THROW	1
12	03-051600		BASE, RELAY	1
13	03-479500		RELAY, SINGLE POLE SINGLE THROW	1
14	03-036600		RAIL	2
15	03-052700		RAIL	2
16	03-052600		NUT, SPRING	24
17	2182010		PANEL	1
18	07-011335		SCREW, ROUND HEAD (#6-32" x 1/2")	12
19	07-050007		NUT, HEX LOCK (#6-32")	12
20	03-410000		SWITCH, 2 POSITION ROTARY (Power Control)	1
21	03-454900		BASE, SWITCH	1
22	03-437200		CONTACT, NORMALLY OPEN	2
23	03-437300		CONTACT, NORMALLY CLOSED	4
24	03-063200		GRIP, CORD (3/4") (Not Shown)	3
25	03-045500		GRIP, CORD (1/2") (Not Shown)	3
26	03-055600		NUT, CONDUIT (3/4") (Not Shown)	3
27	03-055500		NUT, CONDUIT (1/2") (Not Shown)	3
28	10-119300		DECAL, "POWER SOURCE"	1
29	2182020		DECAL, CONTROL BOX (Parts Diagram) (Not Shown)	1
30	03-066300		JUMPER, 2 GANG (Not Shown)	6
31	03-067500		JUMPER, 3 GANG (Not Shown)	4
32	2182170		BRACKET, ANGLE (Not Shown)	2
33	2182180		BRACKET, MOUNTING (Not Shown)	1

TITLE	CONTROL ASSEMBLY, INTRINSICALLY SAFE			
PLATE NO.	C03.29	**SIMON AERIALS INC.**	REV. 03/29/91	PART NO. 2182040

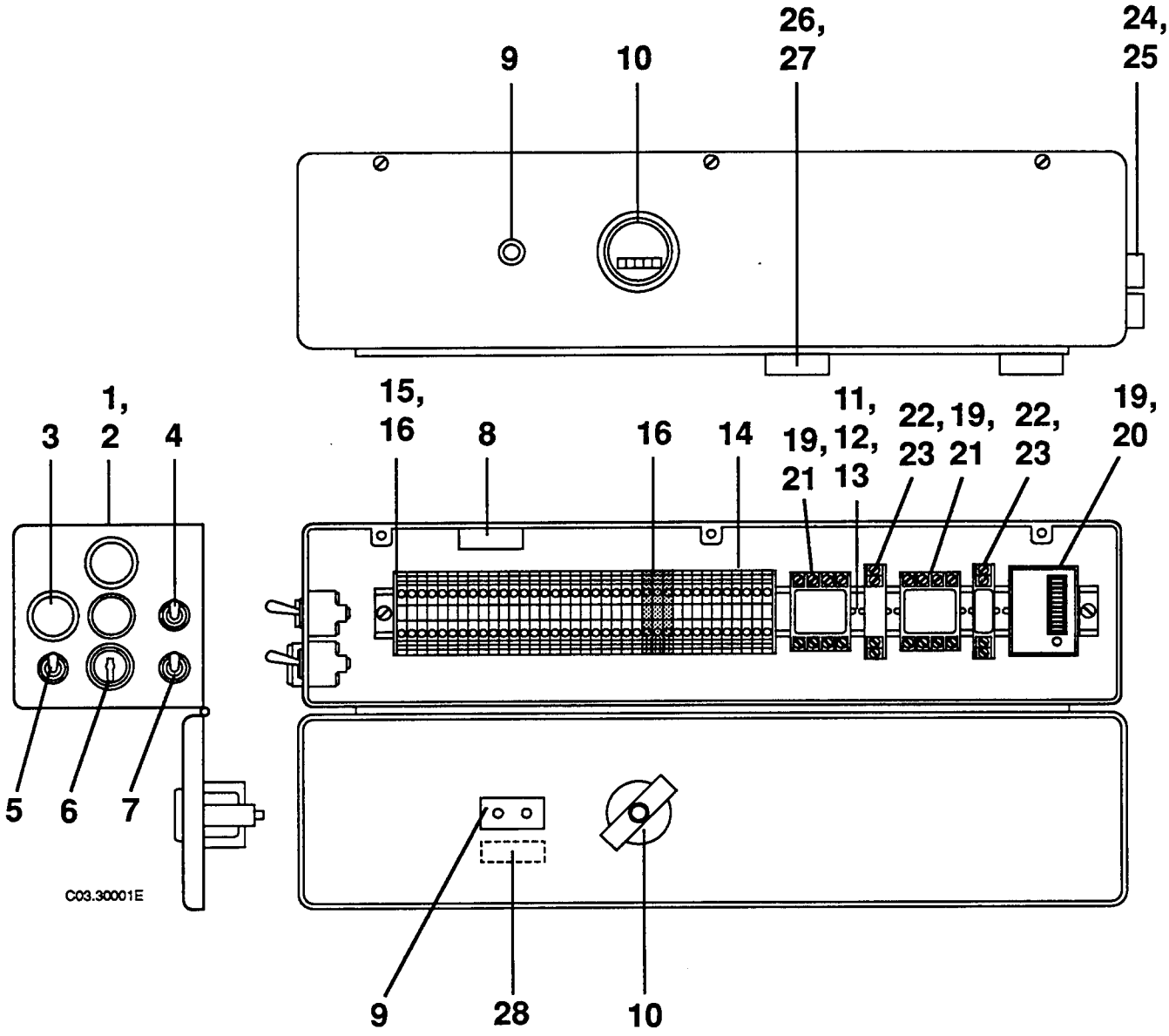


TITLE	CONTROL ASSEMBLY, INTRINSICALLY SAFE		
SIMON AERIALS INC. REV. 03/29/91	PART NO. 2182040	PLATE NO. C03.29	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2105550		ENCLOSURE	1
2	10-117200		DECAL	1
3	03-020300		BUTTON, PUSH (Engine Start)	1
4	03-020700		SWITCH, TOGGLE (Grd. override) (2 Pos, maintained, 4PDT)	1
5	03-020400		SWITCH, THROTTLE (Ignition) (2 pos., maintained, SPST)	1
6	03-021000		SWITCH, KEY OPERATED	1
7	03-020400		SWITCH, TOGGLE (Engine RPM) (2 pos., maintained, SPST)	1
8	03-024000		CIRCUIT BREAKER (20 Amp,pushbutton reset)	1
9	03-024700		CIRCUIT BREAKER (20 Amp, thermal break)	1
10	03-030500		METER, HOUR (12 Volt DC)	1
11	03-036600		RAIL, CARRIER	1
12	07-011335		SCREW, ROUND HEAD (#6-32 x 1/2")	4
13	07-050007		NUT, HEX LOCK (#6-32)	4
14	03-066200		BLOCK, TERMINAL	34
15	03-066100		PLATE, TERMINAL BLOCK END	1
16	03-039100		BLOCK, TERMINAL, GROUNDING	4
17	03-066300		JUMPER (2 Gang) (Not Shown)	2
18	03-067500		JUMPER (3 Gang) (Not Shown)	1
19	03-037500		BASE, RELAY (8 Pin)	3
20	03-052800		RELAY, CONTROL (Time Delay) (12 VOLT DC)	1
21	03-050100		RELAY, CONTROL (Double Pole, Double Throw, 12 Volt DC)	2
22	03-051600		BASE, RELAY, BLADE	2
23	03-051500		RELAY (Single Pole, Single Throw, 12 Volt DC)	2
24	03-045500		CORD GRIP (1/2")	2
25	03-055500		NUT, CONDUIT (1/2")	2
26	03-063200		CORD GRIP (3/4")	2
27	03-055600		NUT, CONDUIT (3/4")	2
28	10-024500		DECAL, 20 AMP FUSE	1
29	03-087800		WIRE, RED (16 Gauge) (Not Shown)	AR
30	03-087600		WIRE, BLACK (16 Gauge) (Not Shown)	AR

TITLE	GROUND CONTROL ASSEMBLY, MPH60 PROPANE/AC				
PLATE NO.	C03.30	SIMON AERIALS INC.	REV. 03/28/91	PART NO.	2179790

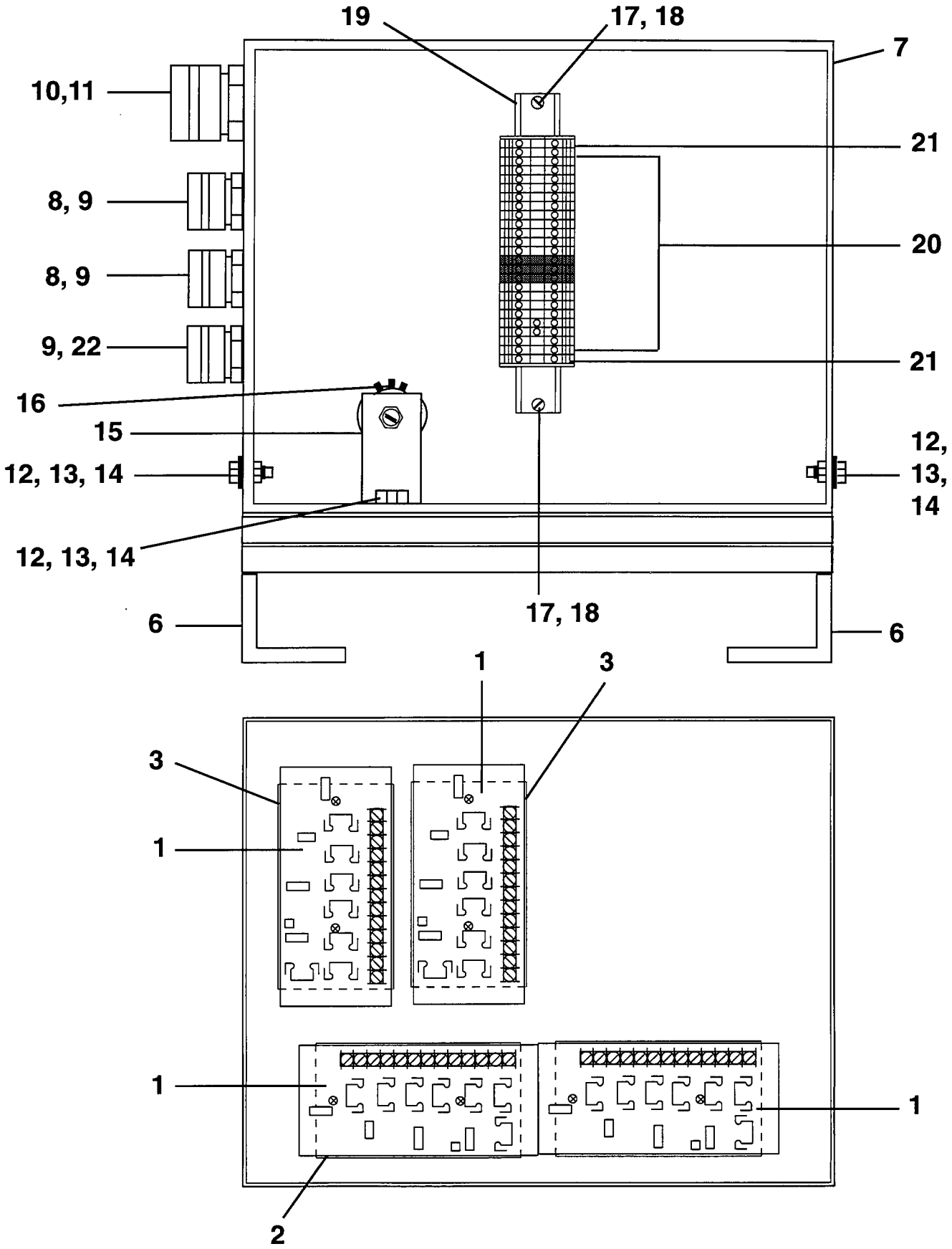


TITLE	GROUND CONTROL ASSEMBLY		
SIMON AERIALS INC. REV. 03/28/91	PART NO. 2179790	PLATE NO. C03.30	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-027201		BOARD, DRIVE	1
2	2143240		CHANNEL, MOUNTING (10" long)	1
3	2150130		CHANNEL, MOUNTING (4" long)	2
4	07-011352		SCREW, ROUND MACHINE HEAD (#10-24 x 3/8")	6
5	07-050011		NUT, LOCK (#10-24) (Not Shown)	6
6	2097255		BRACKET, MOUNTING	2
7	2150050		CABINET, DRIVE CARDS	1
8	03-041000		GRIP, CORD	2
9	03-055500		NUT, LOCK, CONDUIT (1/2")	3
10	03-063200		GRIP, CORD, SOLENOID (3/4")	1
11	03-055600		NUT, LOCK, CONDUIT (3/4")	1
12	07-003045		BOLT (3/8"-16 x 1")	5
13	07-062016		WASHER, FLAT (3/8")	5
14	07-050016		NUT, STOP (3/8"-16)	5
15	2114210		MOUNT, POTENTIOMETER	1
16	03-403100		POTENTIOMETER (25 K)	1
17	07-011335		SCREW, ROUND MACHINE HEAD (#6-32 x 1/2")	2
18	07-050007		NUT, LOCK (#6-32)	2
19	2150140		TRACK, MOUNTING (9")	1
20	03-066200		BLOCK, TERMINAL	23
21	03-039100		GROUND, TERMINAL BLACK	2
22	03045500		GRIP, CORD (1/2")	1

TITLE	ELECTRICAL BOX ASSEMBLY - DRIVE CARDS			
PLATE NO.	C03.32	**SIMON AERIALS INC.**	REV. 10/01/91	PART NO. 2150110



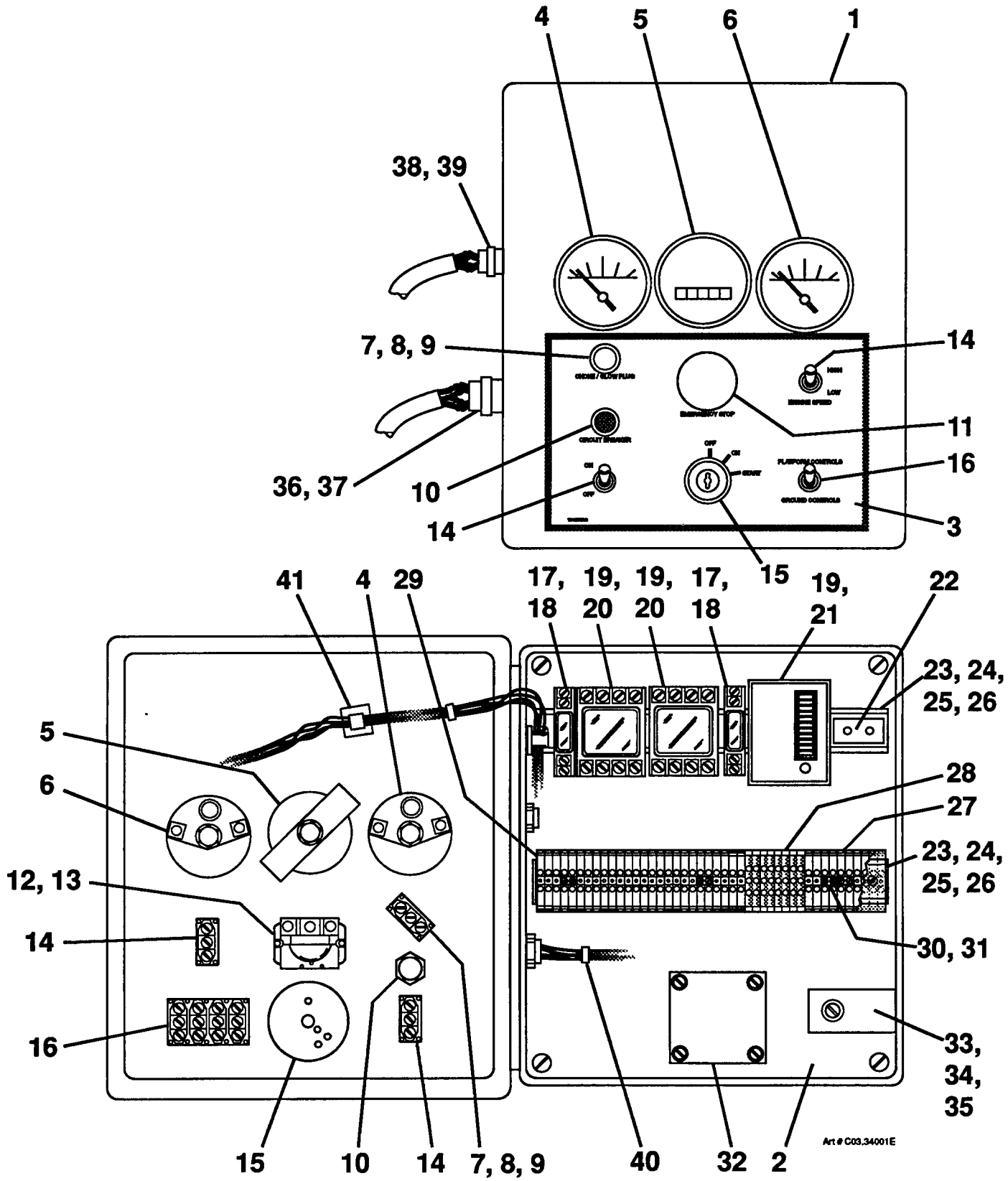
TITLE	ELECTRICAL BOX ASSEMBLY - DRIVE CARDS		
SIMON AERIALS INC. REV. 10/01/91		PART NO. 2150110	PLATE NO. C03.32

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			This control box assembly for MP 80 and smaller with "Type 2" 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	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)	2
18	03-051500		RELAY, PLUG IN (12 Volt DC, single pole)	2
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)	1
23	03-051700		RAIL, TERMINAL [1M (39.37") long section] [11" (283 mm) long piece needed for this application]	2
24	07-011335		MACHINE SCREW, PAN HEAD (#6-32 x 1/2")	4
25	07-050007		NUT, HEX LOCK (#6-32, Grade 5)	4
26	07-062009		WASHER, FLAT (#8)	4
27	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire)	36
28	03-039100		BLOCK, TERMINAL (Grounding, for #12 Gauge wire)	8
29	03-066100		PLATE, TERMINAL BLOCK END	1
30	03-066300		JUMPER, LINE (Double)	4
31	03-067500		JUMPER, LINE (Triple)	1

TITLE GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 2)

PLATE NO. C03.34 | **SIMON AERIALS INC.** NEW 28 APR., 1992 | PART NO.

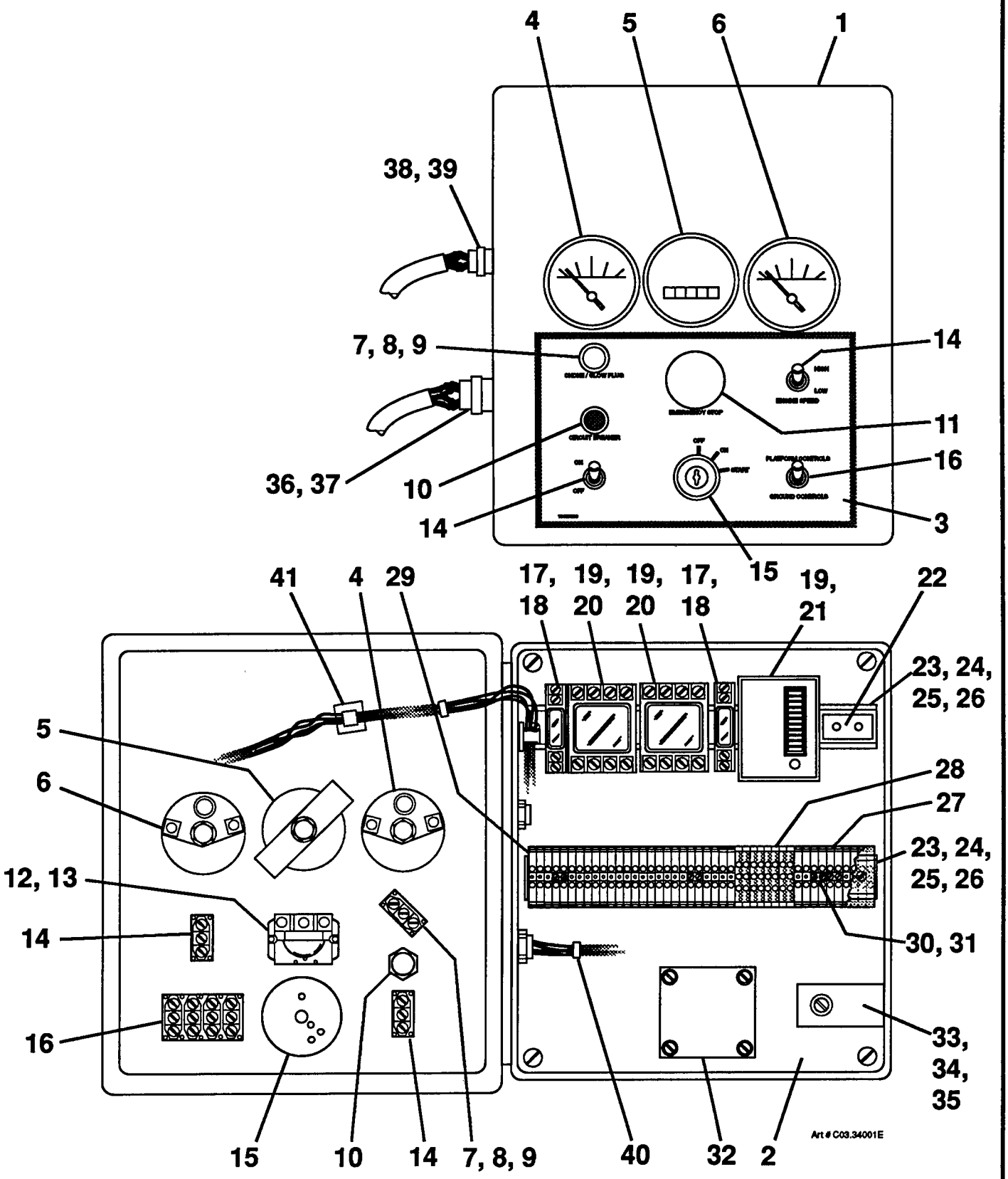


TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC. NEW 28 APR., 1992		PART NO.	PLATE NO. C03.34

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
32	03-481600		MODULE, CONTROL (Low speed drive, nameplate marked "MC 31000036")	1
33	03-027231		POTENTIOMETER (10 K Ohm)	1
34	03-044900		LOCK, SHAFT	1
35	2196540		BRACKET, POTENTIOMETER MOUNTING	1
36	03-063200		GRIP, CORD (3/4")	3
37	03-055600		NUT, CONDUIT (3/4")	3
38	03-041000		GRIP, CORD (1/2")	3
39	03-055500		NUT, CONDUIT (1/2")	3
40	03-064000		TIE, CABLE	A.R.
41	03-064100		MOUNT, CABLE TIE (Adhesive backed)	A.R.
			The following hardware items are used in making electrical connections in ground control boxes:	
42	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	A.R.
43	03-092300		COUPLING, INSULATED (Female, blue nylon, #14-16 AWG)	A.R.
44	03-096000		TERMINAL, END (Blue, "piggyback") (#14-16 AWG)	A.R.
45	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	A.R.
46	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	A.R.
47	03-098400		TERMINAL, END (Blue, #14-16 AWG)	A.R.
48	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	A.R.
49	03-098100		TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG)	A.R.
50	03-095500		TERMINAL, RING (Yellow, #10 AWG, #6 stud)	A.R.
51	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	A.R.
52	03-099100		CONNECTOR, BUTT (Yellow, #10-12 AWG)	A.R.
53	03-095900		TERMINAL, RING (Red, #8 stud)	A.R.
54	03-066800		LOOM, WIRE (1/2")	A.R.
55	03-066900		LOOM, WIRE (3/4")	A.R.
56	03-405200		TUBING, HEAT SHRINK (Clear, 3/16")	A.R.
57	03-403800		DIODE	A.R.

TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 2)		
PLATE NO. C03.34	**SIMON AERIALS INC.** NEW 28 APR., 1992	PART NO.	

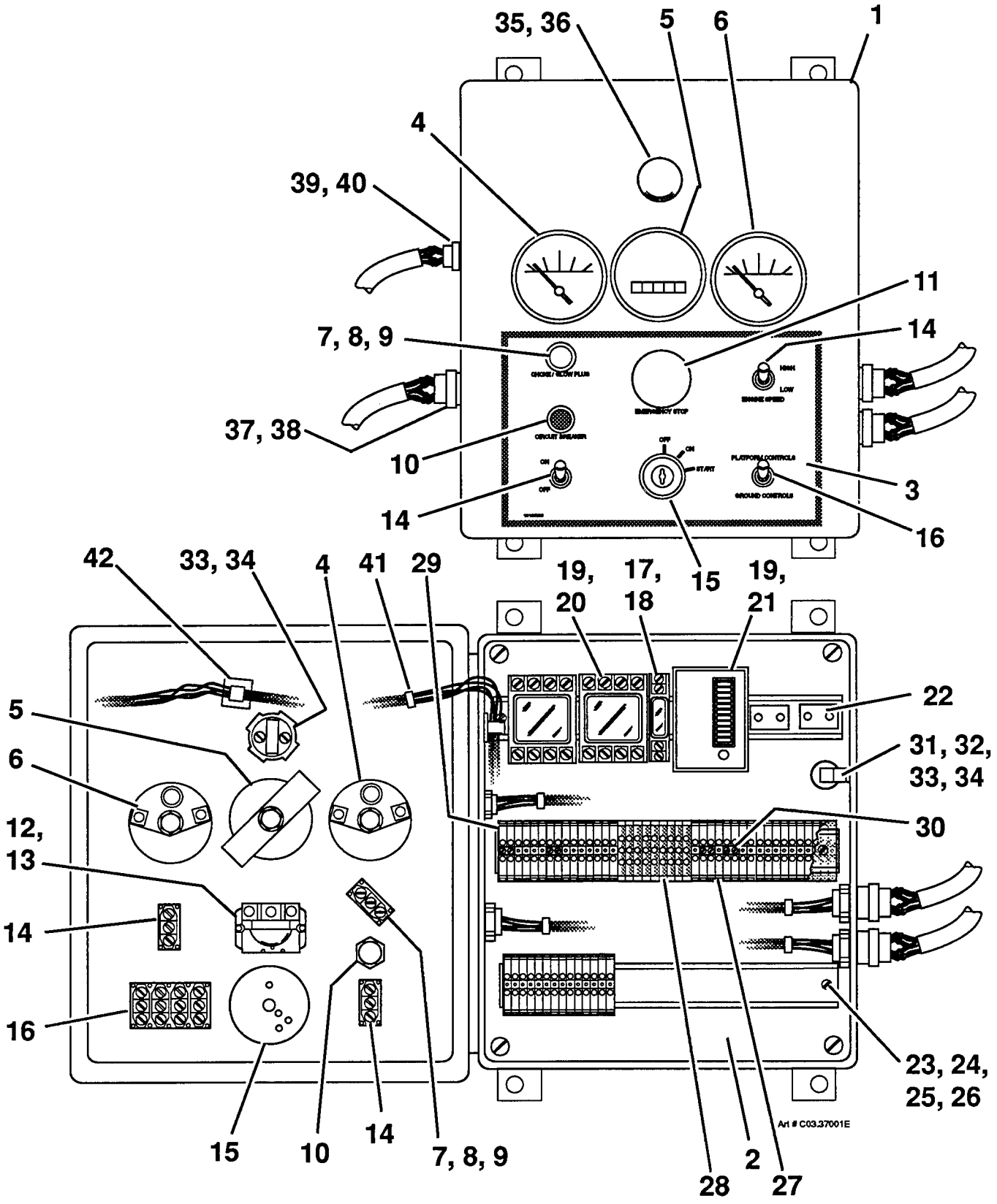


TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC.	NEW 28 APR., 1992	PART NO.	PLATE NO. C03.34

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.



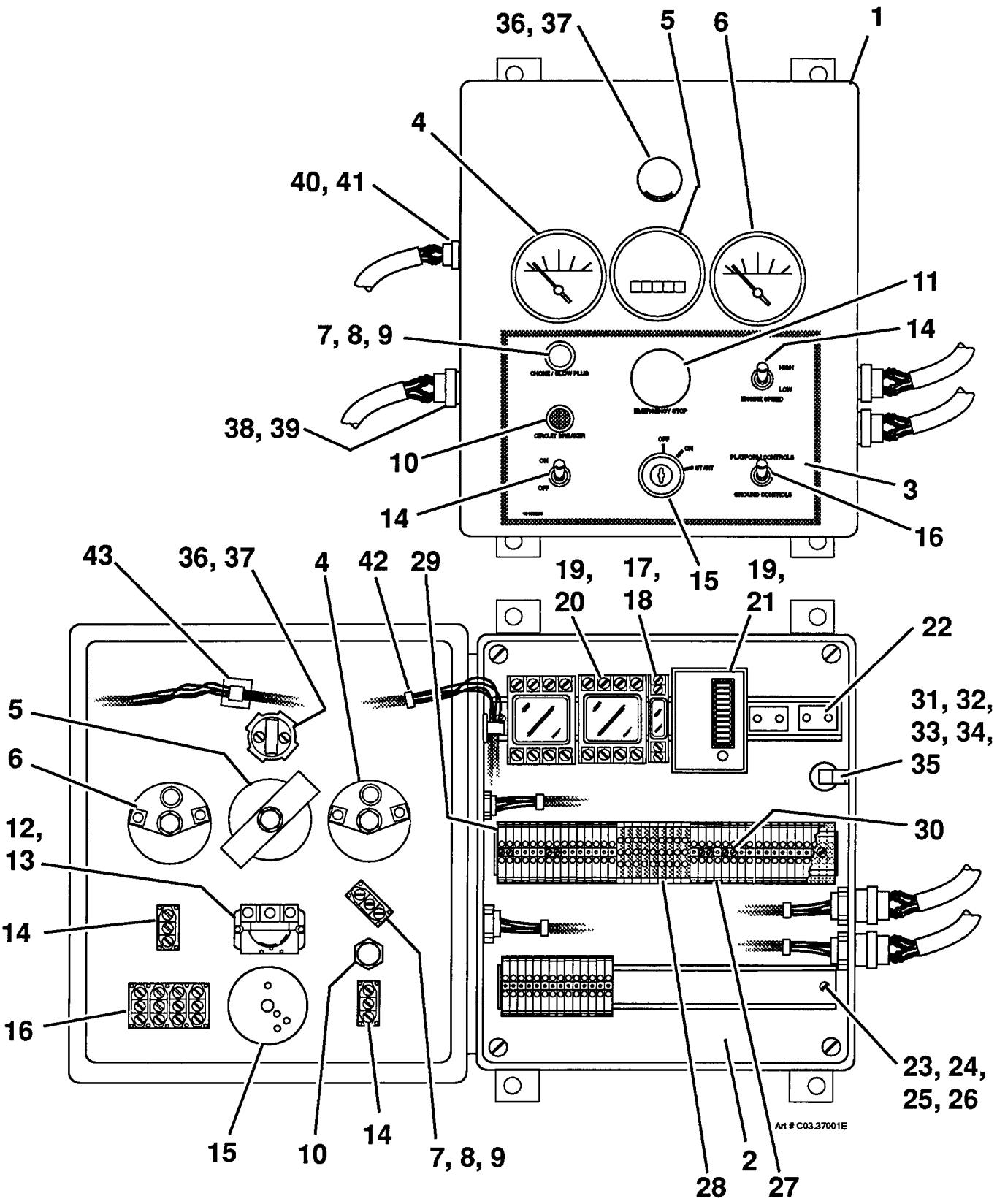
TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC. NEW 13 DEC., 1993		PART NO.	PLATE NO. C03.37

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.

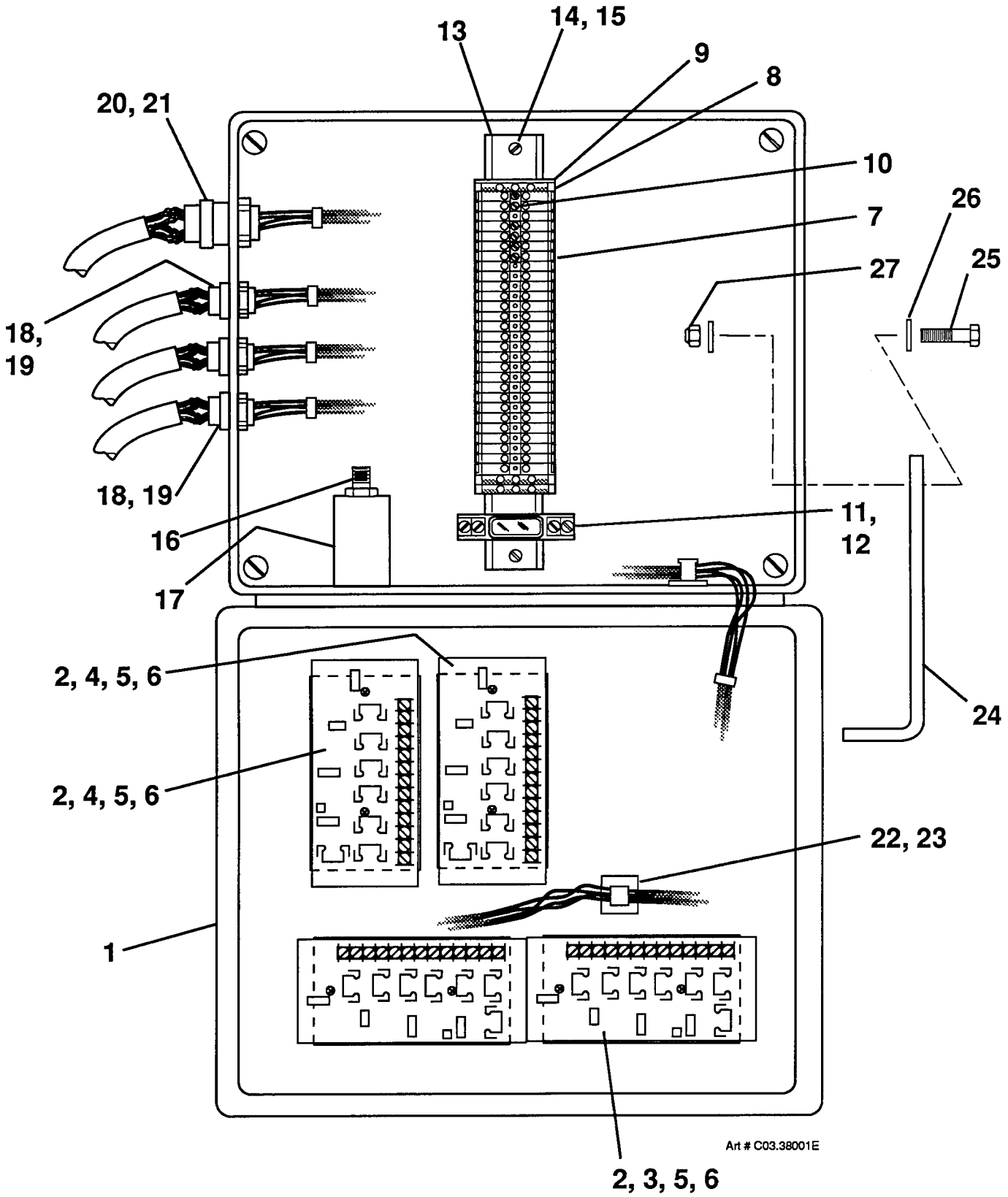


TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC. NEW 13 DEC., 1993		PART NO.	PLATE NO. C03.37

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.	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

PARTS LIST

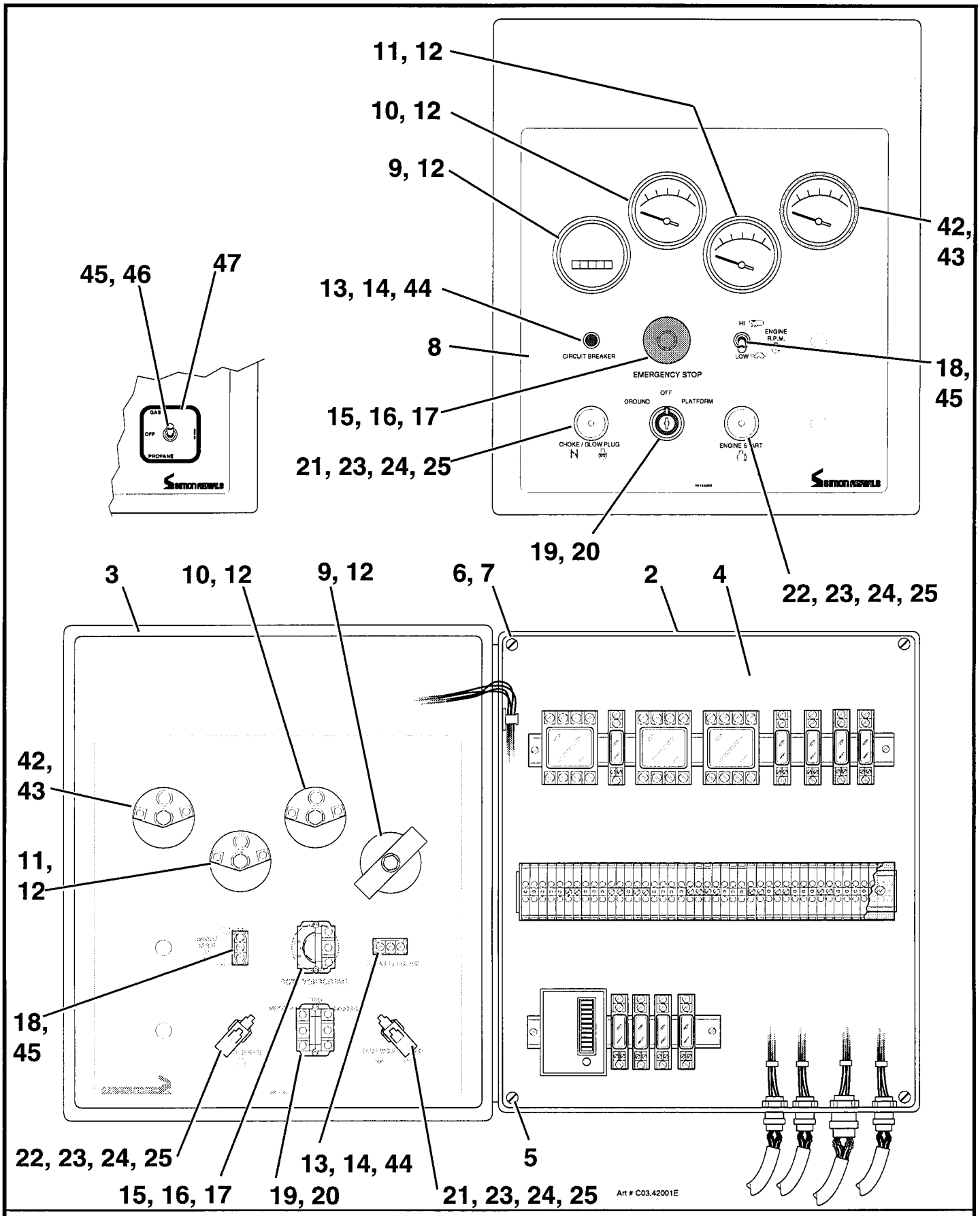
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			GROUND CONTROL BOX ASSEMBLY	
	353 2870		MP 40 through MP 80, with Full Hydraulic control system	
	353 2870		MP 40 through MP 80, with Hydraport control system	
	354 4310		MP 70, Special application	
2	231 0430		BOX, GROUND CONTROL (Drilled. Includes cover) (12-1/4" x 14-1/4" x 6" deep [311 x 362 x 152 mm])	1
3	10-129100		WEATHERSTRIPPING (3/16" x 3/4" x 50 ft roll. 5 ft [1.5 M] required this application)	A.R.
4	219 6530		SUB PLATE, MOUNTING	1
5	07-013411		MACHINE SCREW, ROUND HD (#10-32 x 5/16", Gr. 2)	2
6	07-013414		MACHINE SCREW, ROUND HD (#10-32 x 1/2", Grade 2)	2
7	07-117600		WASHER, EXTERNAL TOOTH (#10)	2
8	10-144300		DECAL, GROUND CONTROL	1
9	03-492300		METER, HOUR (Solid state, 12 to 24 Volt DC)	1
10	03-492200		METER, VOLT (12 Volt DC, 8 to 18 Volt range)	1
11			GAUGE, ENGINE OIL PRESSURE (12 Volt DC)	1
	03-492400		0 to 100 psi (690 kPa) (comes with Control Box Ass'y.)	
	03-496400		0 to 40 psi (276 kPa) (needed for some applications)	
12	01-225700		"O"-RING (1.989" I.D., .070" thick) (Meter seal to panel)	3
13	03-024000		BREAKER, CIRCUIT (20 Amp @ 120 Volt AC, push to reset)	1
14	01-037400		"O"-RING (.351" O.D., .072" thick)	1
15			BUTTON, EMERGENCY STOP	1
	03-496000		Silver and red, pull to reset (earlier version)	
	03-702000		Red, pull to reset (current version)	
16	03-454900		BASE, CONTACT BLOCK (for button 03-702000)	1
17			BLOCK, CONTACT (Normally closed)	1
	03-496300		for earlier button 03-496000	
	03-437300		for current button 03-702000	
18	03-020400		SWITCH, TOGGLE (Engine speed)	
			(2 position, maintained contact, single pole, single throw)	1
19	03-496100		SWITCH, KEY OPERATED (3 position) (includes 2 keys)	1
20	03-496200		BLOCK, CONTACT (Normally open)	2

TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 3)		
PLATE NO. C03.42	**SIMON AERIALS INC.**	REV. 09 FEB., 1996	PART NO.

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-013700		SOLENOID VALVE, PUMP UNLOADING	1
2	SEE INDEX	D8	HYDRAULIC PUMP	1
3	03-051300		RELAY, THROTTLE & STARTER	2
4	09-000401		SOLENOID, THROTTLE	1
5	03-050600		THROTTLE CLEVIS (NOT SHOWN)	1
6	02-011300		COUPLING ASSEMBLY - COMPLETE	1
6A			COUPLING HALF, PUMP	1
6B			COUPLING INSERT	1
6C			COUPLING HALF, ENGINE	1
7	09-006500		MOTOR MOUNT	4
8A	SCW-202135-9		COUPLING HALF, PUMP (EARLY MODEL)	1
8B	02-003300		COUPLING INSERT (EARLY MODEL)	1
8C	02-003200		COUPLING HALF, ENGINE (EARLY MODEL)	1
8D	08-006700		BUSHING	1

DESCRIPTION	PART NO.
GAS ENGINE ASSEMBLY- 65 H.P.	CAA-208485-1



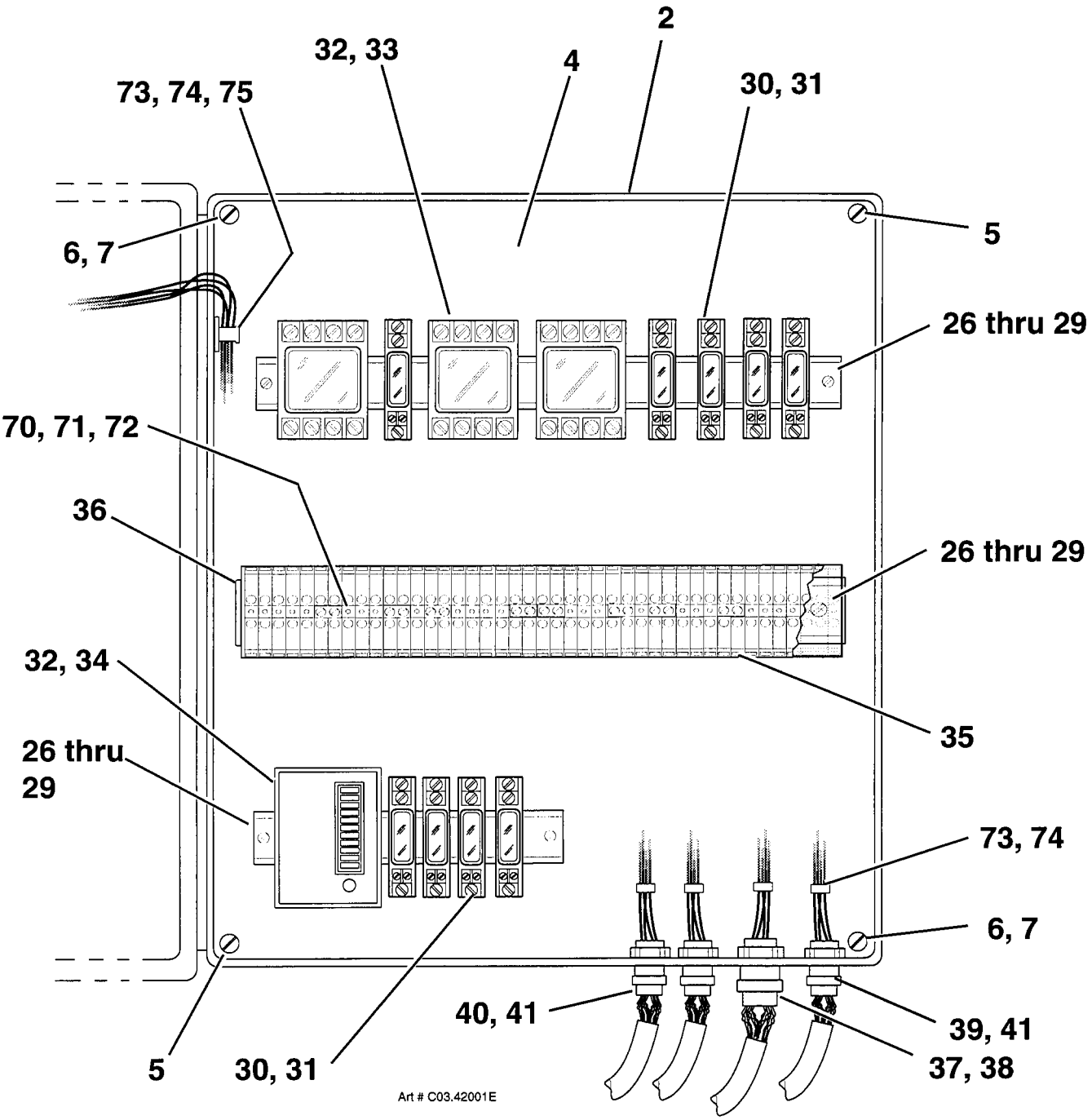
TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.42

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			GROUND CONTROL BOX ASSEMBLY (continued)	
21	03-402500		SWITCH, PUSH BUTTON (10 Amp, 250 Volt AC) (Choke/ Glow Plug) (comes with Control Box 353 2870)	1
	03-497900		PLUG, PLASTIC (for Control Box 354 4310, or versions of Control Box 353 2870 used with Deutz Diesel engine) (1/2" dia., "Panel Seal", to fill unused toggle switch hole)	1
22	03-402500		SWITCH, PUSH BUTTON (10 A, 250 V AC) (Engine start)	1
23	03-402800		BUTTON, PUSH (Blue) (Choke/ Glow plug) (Engine start) (Some earlier versions used Red [03-402700] or Green [03-402900] push buttons. Order 03-402800.)	A.R.
24	03-402600		SEAL, SWITCH BEZEL	A.R.
25	10-151000		CAP, VINYL (Black)	A.R.
26	03-051700		RAIL, TERMINAL (1M [39.37"] long section. Cut to fit)	A.R.
27	07-011335		MACHINE SCREW, PAN HEAD (#6-32 x 1/2")	6
28	07-050007		NUT, HEX LOCK (#6-32, Grade 5)	6
29	07-062009		WASHER, FLAT (#8)	6
30	03-051600		SOCKET, RELAY (Single pole, snap mount)	9
31	03-051500		RELAY, PLUG IN (12 Volt DC, single pole)	9
32	03-037500		SOCKET, RELAY (Double pole, snap mount)	4
33	03-050100		RELAY, PLUG IN (12 Volt DC, double pole)	3
34	03-052800		RELAY, TIME DELAY (.1 to 102.3 second, 12 Volt DC)	1
35	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire)	43
36	03-066100		PLATE, TERMINAL BLOCK END	1
37	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)	3
38	03-055600		NUT, CONDUIT LOCK (3/4")	3
39	03-041000		GRIP, CORD (1/2", with .38" to .44" seal)	A.R.
40	03-045500		GRIP, CORD (1/2", with .31" to .38" seal)	2
41	03-055500		NUT, CONDUIT LOCK (1/2")	A.R.

TITLE GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 3)

PLATE NO. C03.42 | **SIMON AERIALS INC.** REV. 09 FEB., 1996 | PART NO.

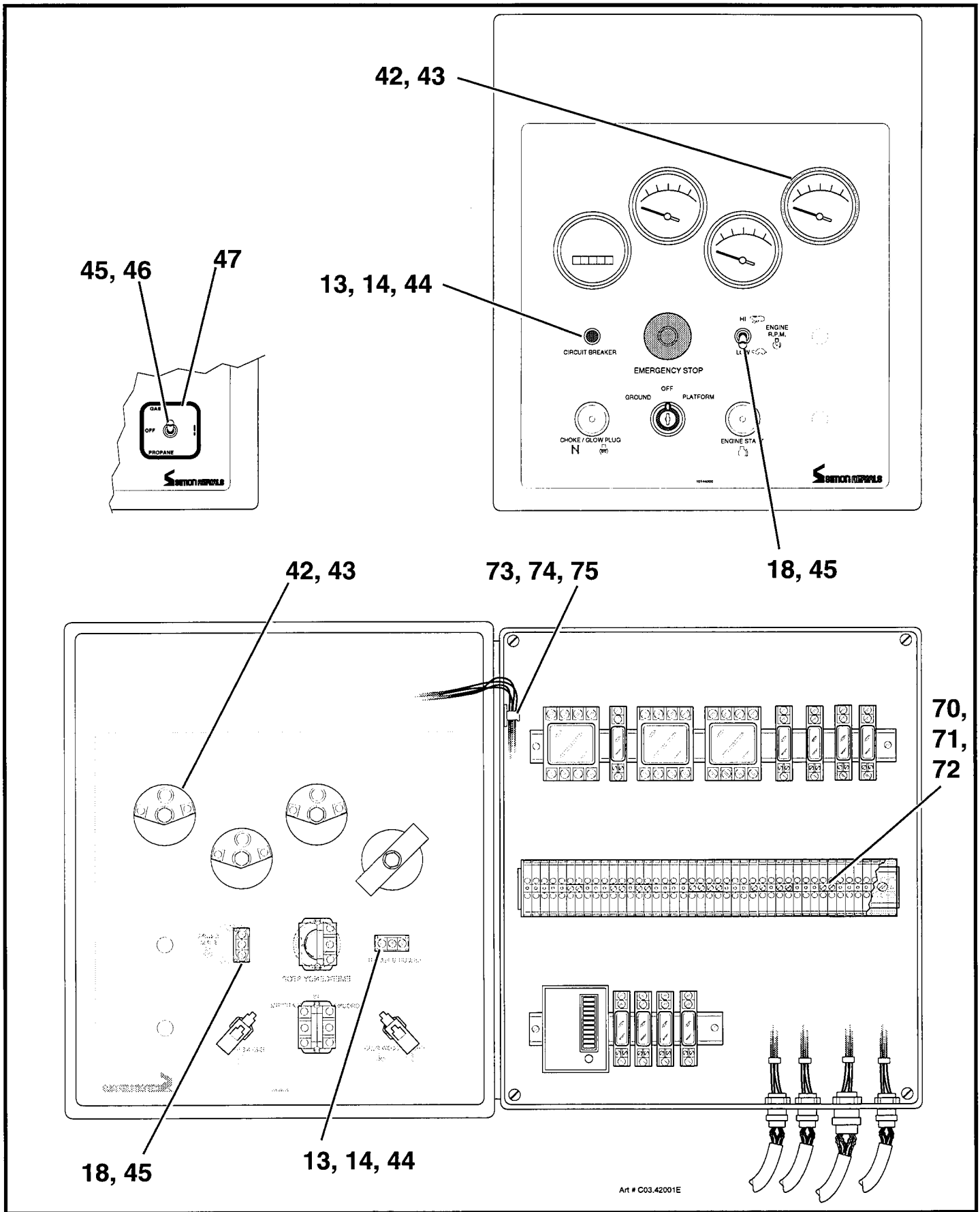


TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 3)		
SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.42

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items **are not** included with the Ground Control Box:	
42	03-493300		GAUGE, ENGINE COOLANT TEMPERATURE (optional with liquid cooled engines)	1
43	01-225700		"O"-RING (1.989" I.D., .070" thick) (Meter seal to panel)	1
44	03-499800		SEAL, CIRCUIT BREAKER BUTTON (option)	1
45	03-506200		SEAL, TOGGLE SWITCH (option)	A.R.
46			SWITCH, TOGGLE (with "Dual Fuel" option)	1
47	10-016800		DECAL, "GAS/ OFF/ PROPANE" (with "Dual Fuel" option)	1
			The following hardware items, listed for your convenience, are **typically** used in Simon electrical control boxes:	
48	03-446100		CABLE, ELECTRICAL (10 conductor, #18 AWG)	
40	03-446800		CABLE, ELECTRICAL (10 conductor, #16 AWG)	
50	03-488800		CABLE, ELECTRICAL (Type F 569, 19 conductor, #16 AWG)	
51	03-088300		WIRE, ELECTRICAL (#14 AWG, Blue, stranded)	
52	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded)	
53	03-087600		WIRE, ELECTRICAL (#16 AWG, Black, stranded)	
54	03-061800		DIODE, RECTIFIER (600 Volt, 6 Amp)	
55	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	
56	03-092300		COUPLING, INSULATED (Female, blue nylon, #14-16 AWG)	
57	03-096000		TERMINAL, END (Blue, "piggyback") (#14-16 AWG)	
58	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	
59	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	
60	03-098400		TERMINAL, END (Blue, #14-16 AWG)	
61	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	
62	03-098100		TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG)	
63	03-095500		TERMINAL, RING (Yellow, #10 AWG, #6 stud)	
64	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	
65	03-099100		CONNECTOR, BUTT (Yellow, #10-12 AWG)	
66	03-095900		TERMINAL, RING (Red, #8 stud)	
67	03-066800		LOOM, WIRE (1/2")	
68	03-066900		LOOM, WIRE (3/4")	
69	03-405200		TUBING, HEAT SHRINK (Clear, 3/16")	
70	03-066300		BAR, JUMPER (2 pole) (Double line jumper)	
71	03-067500		BAR, JUMPER (3 pole) (Triple line jumper)	
72	03-707200		BAR, JUMPER (4 pole) (Quad line jumper)	
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	GROUND CONTROL BOX ASSEMBLY (PLATE 3 OF 3)		
PLATE NO. C03.42	**SIMON AERIALS INC.** REV. 09 FEB., 1996		PART NO.



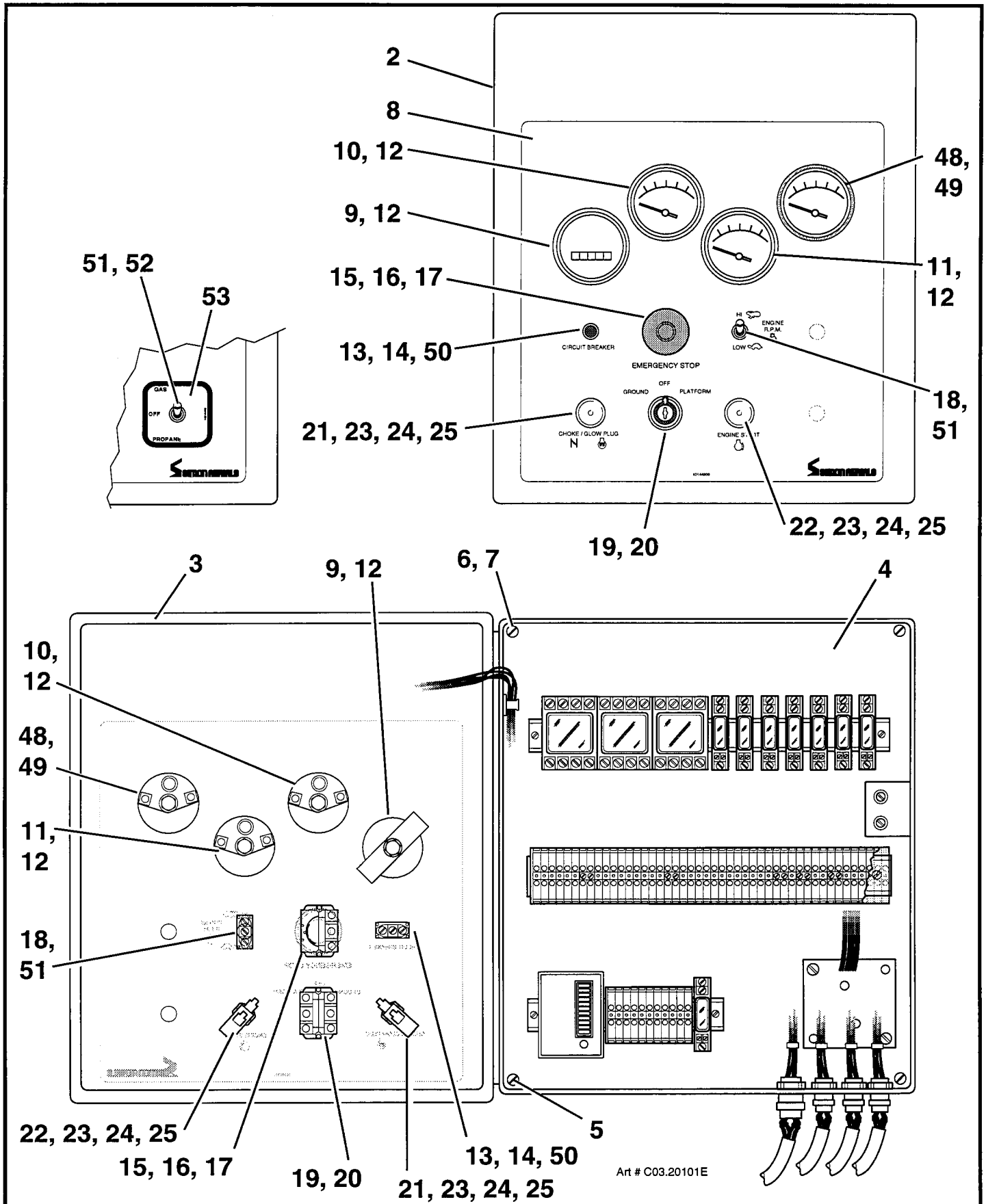
TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 09 FEB., 1996	**PART NO.**	**PLATE NO.** C03.42

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			GROUND CONTROL BOX ASSEMBLY	1
	353 5620		**MP 40 thru MP 80**, with Electro-Proportional control system	
	353 5621		Model **RP 46**	
	353 5620		Model **RP 66**	
2	231 0430		BOX, GROUND CONTROL (Drilled. Includes cover) (12-1/4" x 14-1/4" x 6" deep [311 x 362 x 152 mm])	1
3	10-129100		WEATHERSTRIPPING (3/16" x 3/4" x 50 ft roll. 5 ft [1.5 M] required this application)	A.R.
4	219 6530		SUBPLATE, MOUNTING	1
5	07-013411		MACHINE SCREW, ROUND HD (#10-32 x 5/16", Gr. 2)	2
6	07-013414		MACHINE SCREW, ROUND HD (#10-32 x 1/2", Grade 2)	2
7	07-117600		WASHER, EXTERNAL TOOTH (#10)	2
8	10-144300		DECAL, GROUND CONTROL	1
9	03-492300		METER, HOUR (Solid state, 12 to 24 Volt DC)	1
10	03-492200		METER, VOLT (12 Volt DC, 8 to 18 Volt range)	1
11			GAUGE, ENGINE OIL PRESSURE (12 Volt DC)	1
	03-492400		0 to 100 psi (690 kPa) (comes with Control Box Ass'y.)	
	03-496400		0 to 40 psi (276 kPa) (needed for some applications)	
12	01-225700		"O"-RING (1.989" I.D., .070" thick) (Meter seal to panel)	3
13	03-024000		BREAKER, CIRCUIT (20 Amp @ 120 Volt AC, push to reset)	1
14	01-037400		"O"-RING (.351" I.D., .072" thick)	1
15			BUTTON, EMERGENCY STOP	1
	03-496000		Silver and red, pull to reset (earlier version)	
	03-702000		Red, pull to reset (current version)	
16	03-454900		BASE, CONTACT BLOCK (for button 03-702000)	1
17			BLOCK, CONTACT (Normally closed)	1
	03-496300		for earlier button 03-496000	
	03-437300		for current button 03-702000	
18	03-020400		SWITCH, TOGGLE (Engine speed) (for Ass'y. 353 5620) (2 position, maintained contact, single pole, single throw)	1
	03-497900		PLUG, PLASTIC (for Assembly 353 5621) (1/2" dia., "Panel Seal", to fill unused toggle switch hole)	1
19	03-496100		SWITCH, KEY OPERATED (3 position) (includes 2 keys)	1
20	03-496200		BLOCK, CONTACT (Normally open)	2

TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 1 OF 3)

PLATE NO.			PART NO.
C03.201	**SIMON AERIALS INC.**	REV. 09 FEB., 1996	



TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 1 OF 3)

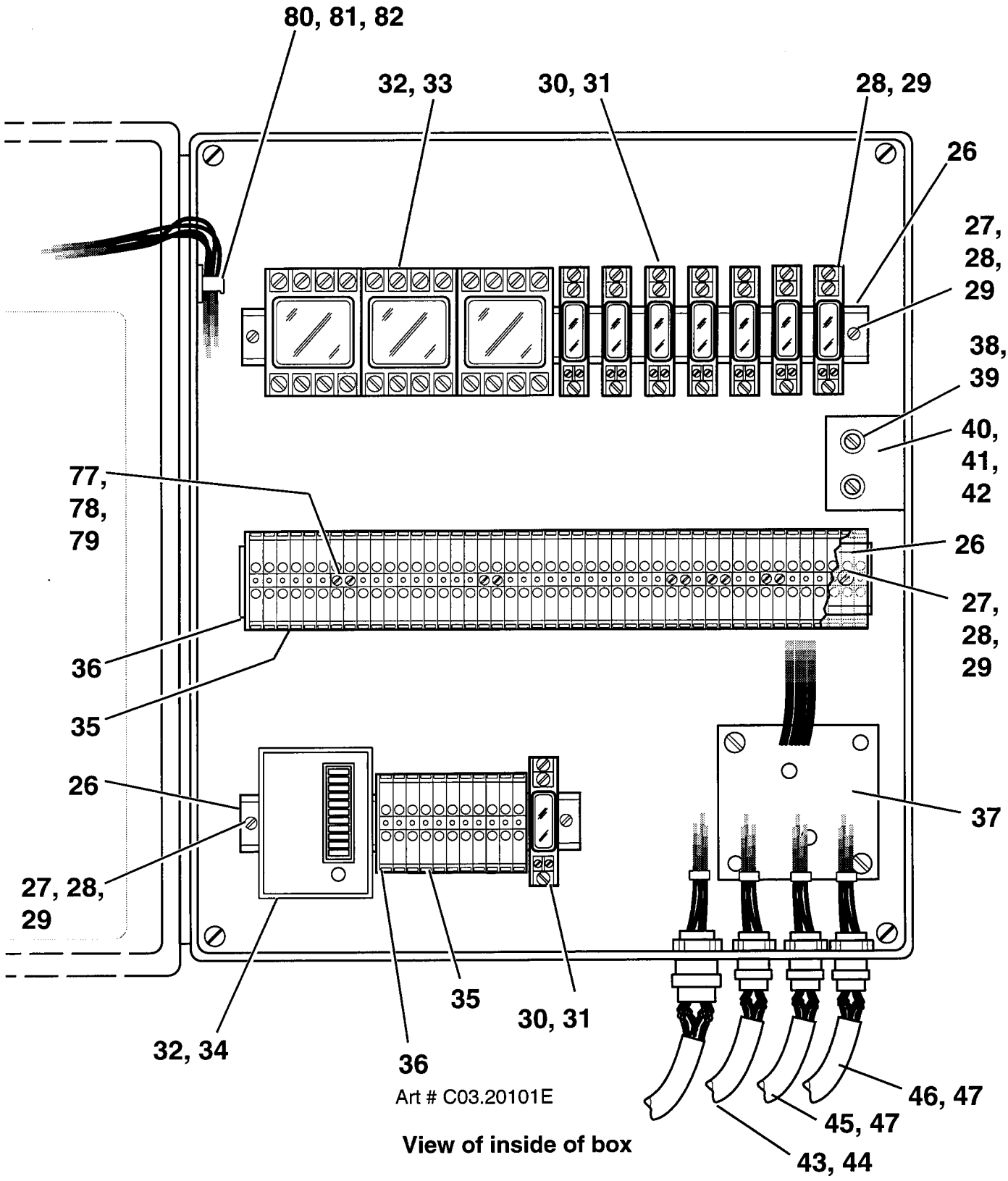
SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.201

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			GROUND CONTROL BOX ASSEMBLY (continued)	
21	03-402500		SWITCH, PUSH BUTTON (10 Amp, 250 Volt AC) (Choke/ Glow Plug) (comes with Control Box Ass'y.)	1
	03-497900		PLUG, PLASTIC (for versions with Deutz Diesel engine) (1/2" dia., "Panel Seal", to fill unused toggle switch hole)	1
22	03-402500		SWITCH, PUSH BUTTON (10 A, 250 V AC) (Engine start)	1
23	03-402800		BUTTON, PUSH (Blue) (Choke/ Glow plug) (Engine start) (Some earlier versions used Red [03-402700] or Green [03-402900] push buttons. Order 03-402800.)	A.R.
24	03-402600		SEAL, SWITCH BEZEL	A.R.
25	10-151000		CAP, VINYL (Black)	A.R.
26	03-051700		RAIL, TERMINAL (1M [39.37"] long section. Cut to fit)	A.R.
27	07-011335		MACHINE SCREW, PAN HEAD (#6-32 x 1/2")	6
28	07-050007		NUT, HEX LOCK (#6-32, Grade 5)	6
29	07-062009		WASHER, FLAT (#8)	6
30	03-051600		SOCKET, RELAY (Single pole, snap mount)	7
31	03-051500		RELAY, PLUG IN (12 Volt DC, single pole)	7
32	03-037500		SOCKET, RELAY (Double pole, snap mount)	4
33	03-050100		RELAY, PLUG IN (12 Volt DC, double pole)	3
34	03-052800		RELAY, TIME DELAY (.1 to 102.3 second, 12 Volt DC)	1
35	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire)	57
36	03-066100		PLATE, TERMINAL BLOCK END	2
37	03-481600		MODULE, CONTROL (Marked "MC 31000036". Controls low speed drive from ground.)	1
38	03-027231		POTENTIOMETER (10 K Ohm)	2
39	03-044900		LOCK, SHAFT	2
40	232 3870		BRACKET, POTENTIOMETER MOUNTING	1
41	07-090156		CAP SCREW, BUTTON HEAD (1/4"-20 x 5/8", Stainless steel)	1
42	07-065014		WASHER, HELICAL LOCK (1/4")	1
43	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)	4
44	03-055600		NUT, CONDUIT (3/4")	4
45	03-041000		GRIP, CORD (1/2", .with 38" to .44" seal)	1
46	03-045500		GRIP, CORD (1/2", .with 31" to .38" seal)	2
47	03-055500		NUT, CONDUIT (1/2")	3

TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 2 OF 3)

PLATE NO.		PART NO.
C03.201	**SIMON AERIALS INC.** REV. 09 FEB., 1996	



Art # C03.20101E

View of inside of box

TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 2 OF 3)

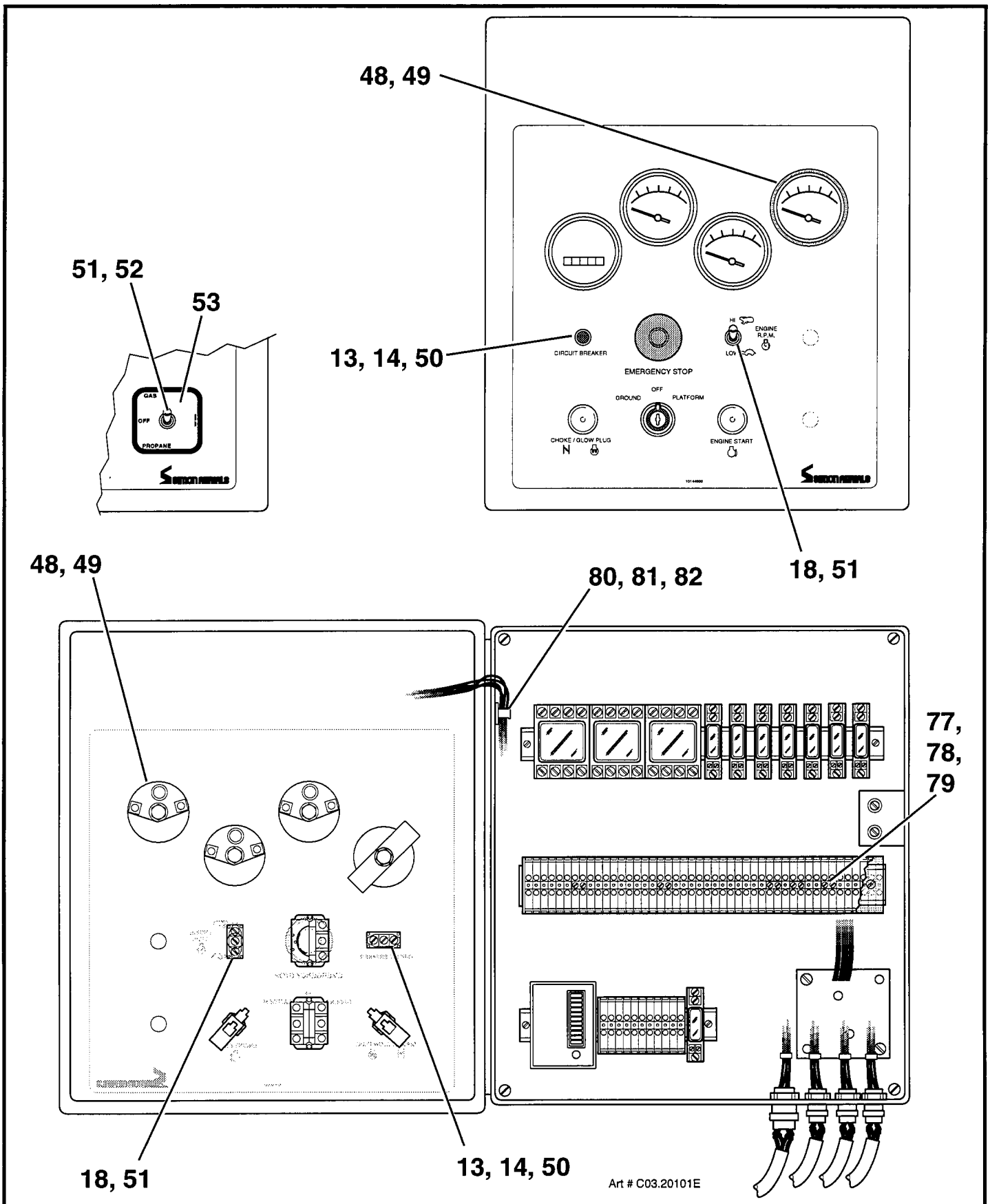
SIMON AERIALS INC. REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.201

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items **are not** included with the Ground Control Box:	
48	03-493300		GAUGE, ENGINE COOLANT TEMPERATURE (optional with liquid cooled engines)	1
49	01-225700		"O"-RING (1.989" I.D., .070" thick) (Meter seal to panel)	1
50	03-499800		SEAL, CIRCUIT BREAKER BUTTON (option)	1
51	03-506200		SEAL, TOGGLE SWITCH (option)	A.R.
52			SWITCH, TOGGLE (with "Dual Fuel" option)	1
53	10-016800		DECAL, "GAS/ OFF/ PROPANE" (with "Dual Fuel" option)	1
			The following hardware items, listed for your convenience, are **typically** used in Simon electrical control boxes:	
54	03-446100		CABLE, ELECTRICAL (10 conductor, #18 AWG)	
55	03-446800		CABLE, ELECTRICAL (10 conductor, #16 AWG)	
56	03-488800		CABLE, ELECTRICAL (Type F 569, 19 conductor, #16 AWG)	
57	03-488900		CABLE, ELECTRICAL (Type F 570, 24 conductor, #16 AWG)	
58	03-088300		WIRE, ELECTRICAL (#14 AWG, Blue, stranded)	
59	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded)	
60	03-087600		WIRE, ELECTRICAL (#16 AWG, Black, stranded)	
61	03-061800		DIODE, RECTIFIER (600 Volt, 6 Amp)	
62	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	
63	03-092300		COUPLING, INSULATED (Female, blue nylon, #14-16 AWG)	
64	03-096000		TERMINAL, END (Blue, "piggyback") (#14-16 AWG)	
65	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	
66	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	
67	03-098400		TERMINAL, END (Blue, #14-16 AWG)	
68	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	
69	03-098100		TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG)	
70	03-095500		TERMINAL, RING (Yellow, #10 AWG, #6 stud)	
71	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	
72	03-099100		CONNECTOR, BUTT (Yellow, #10-12 AWG)	
73	03-095900		TERMINAL, RING (Red, #8 stud)	
74	03-066800		LOOM, WIRE (1/2")	
75	03-066900		LOOM, WIRE (3/4")	
76	03-405200		TUBING, HEAT SHRINK (Clear, 3/16")	
77	03-066300		BAR, JUMPER (2 pole) (Double line jumper)	
78	03-067500		BAR, JUMPER (3 pole) (Triple line jumper)	
79	03-707200		BAR, JUMPER (4 pole) (Quad line jumper)	
80	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	
81	03-064000		TIE, CABLE (7.4" [188 mm] long)	
82	03-064100		MOUNT, CABLE TIE (Adhesive backed)	

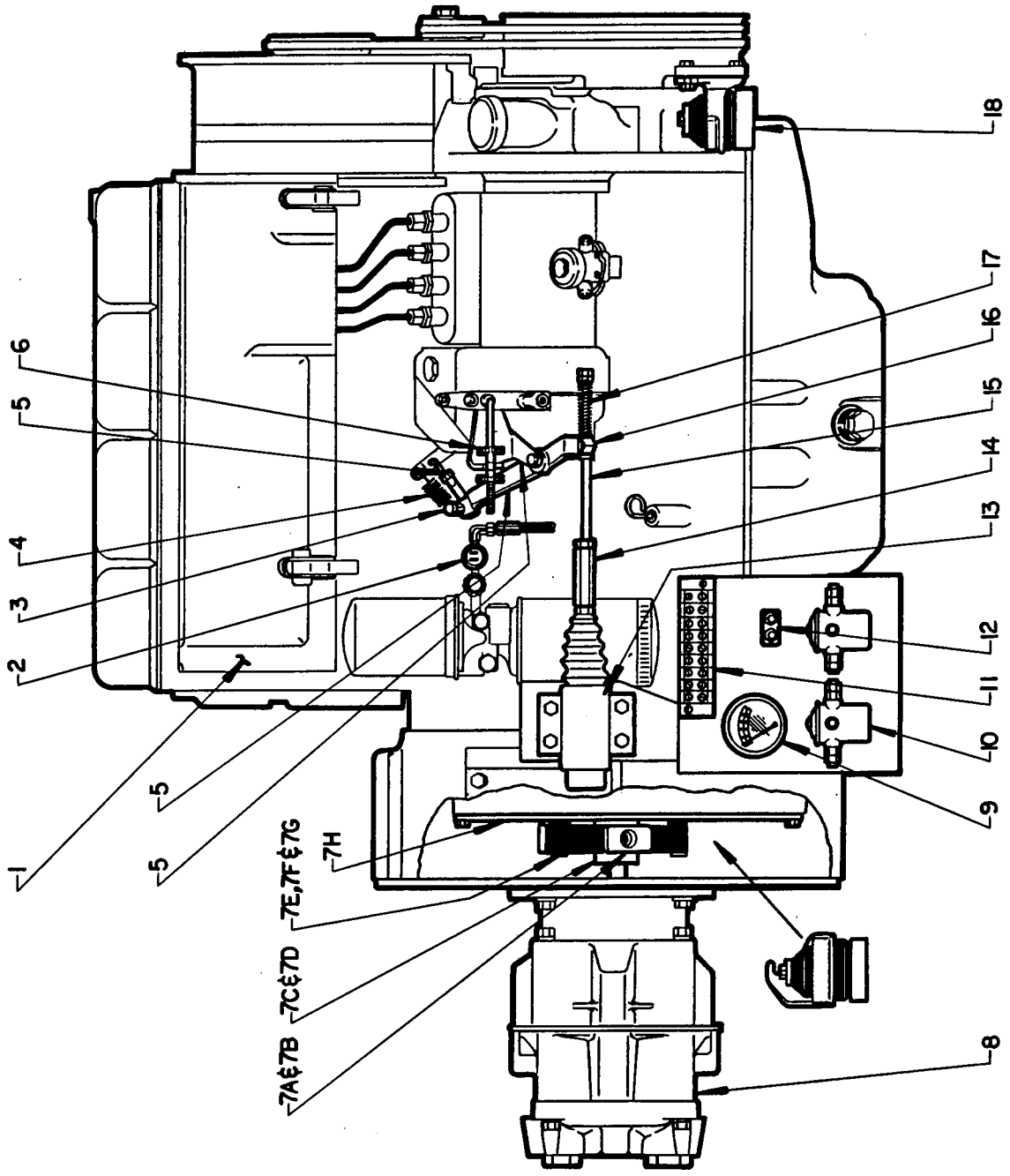
TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 3 OF 3)

PLATE NO.			PART NO.
C03.201	**SIMON AERIALS INC.**	REV. 09 FEB., 1996	



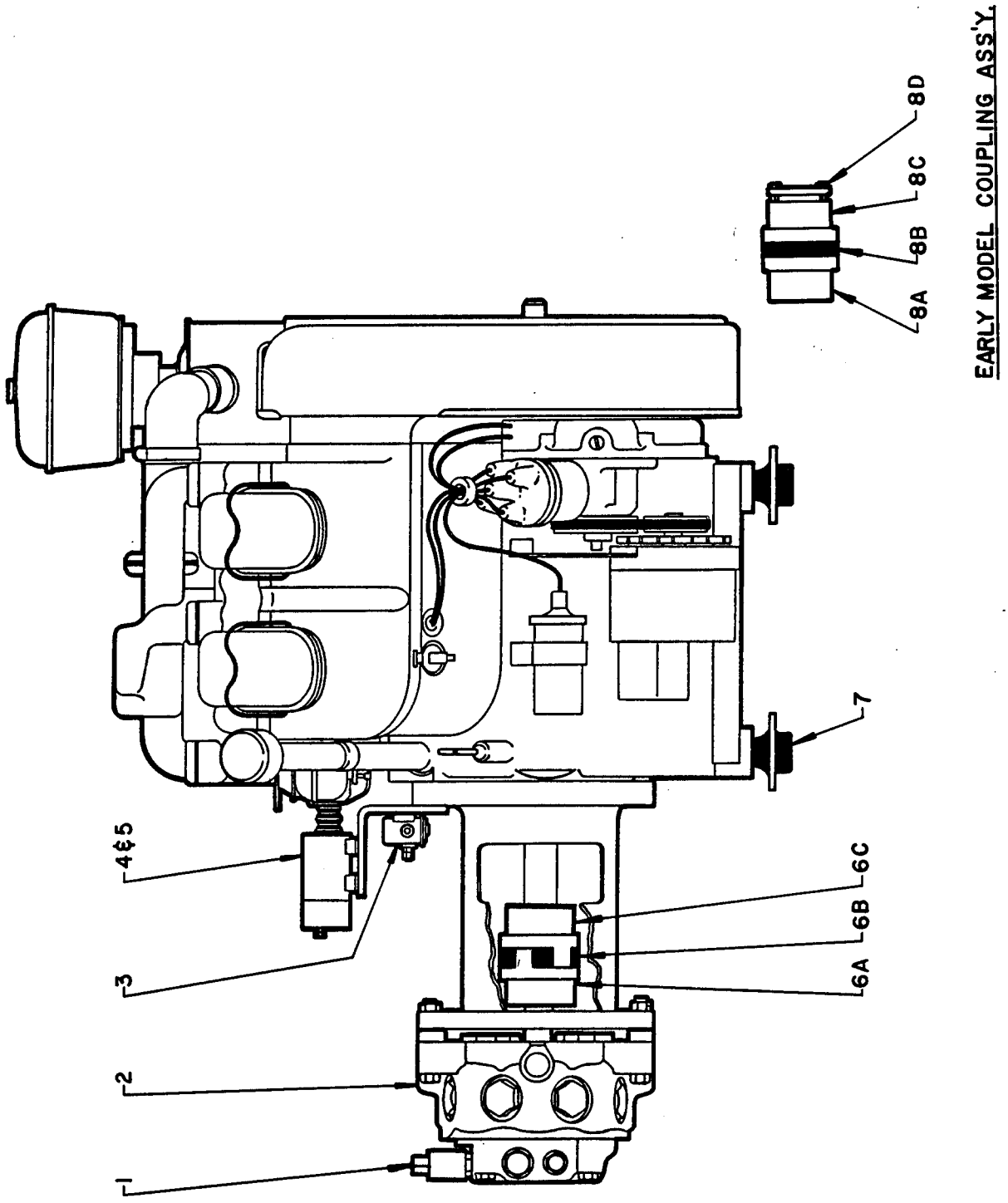
TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 3 OF 3)

SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.201



0385/0385

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



0785/0685

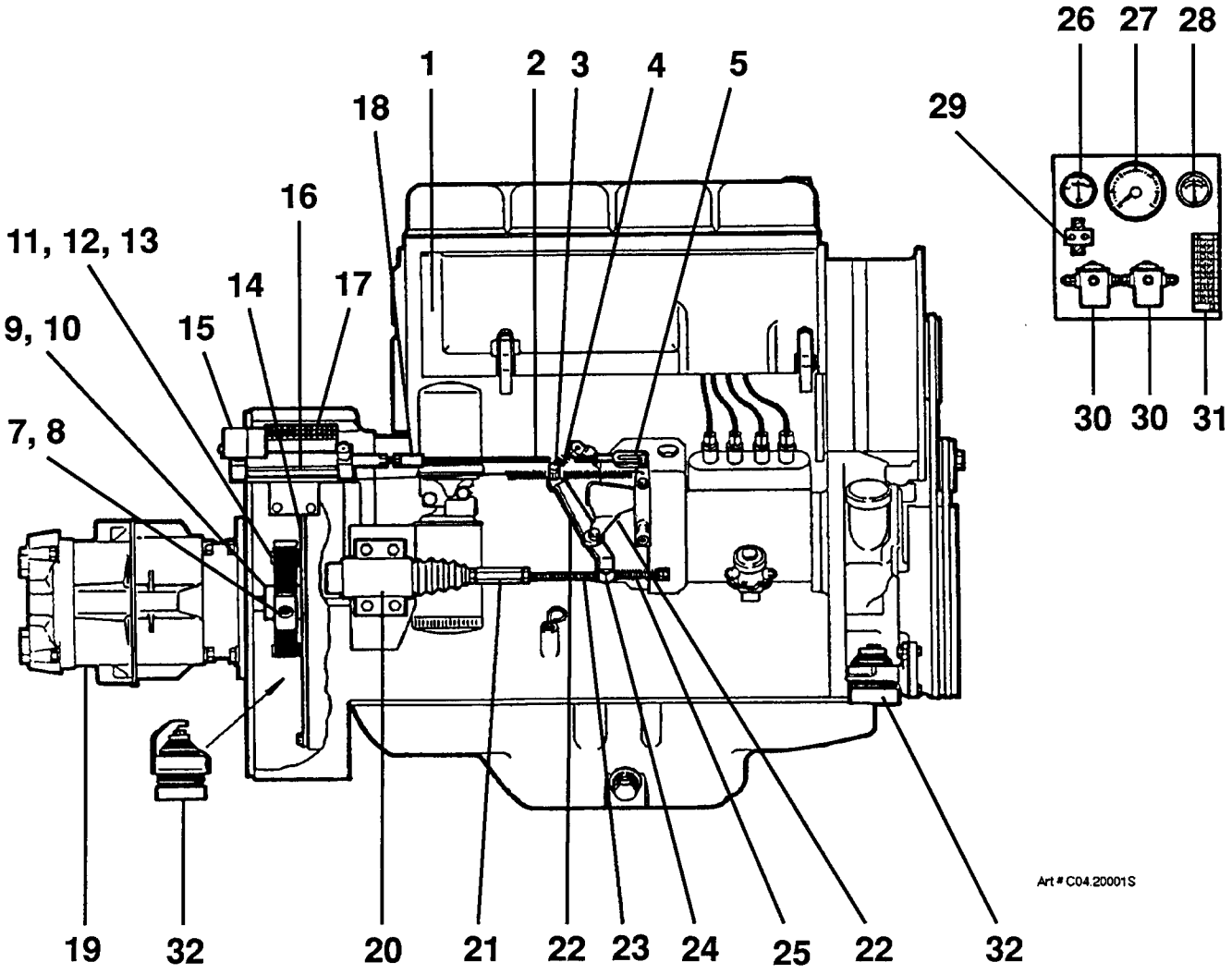
DESCRIPTION	PART NO.
GAS ENGINE ASSEMBLY- 65 H.P.	CAA-208485-1

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

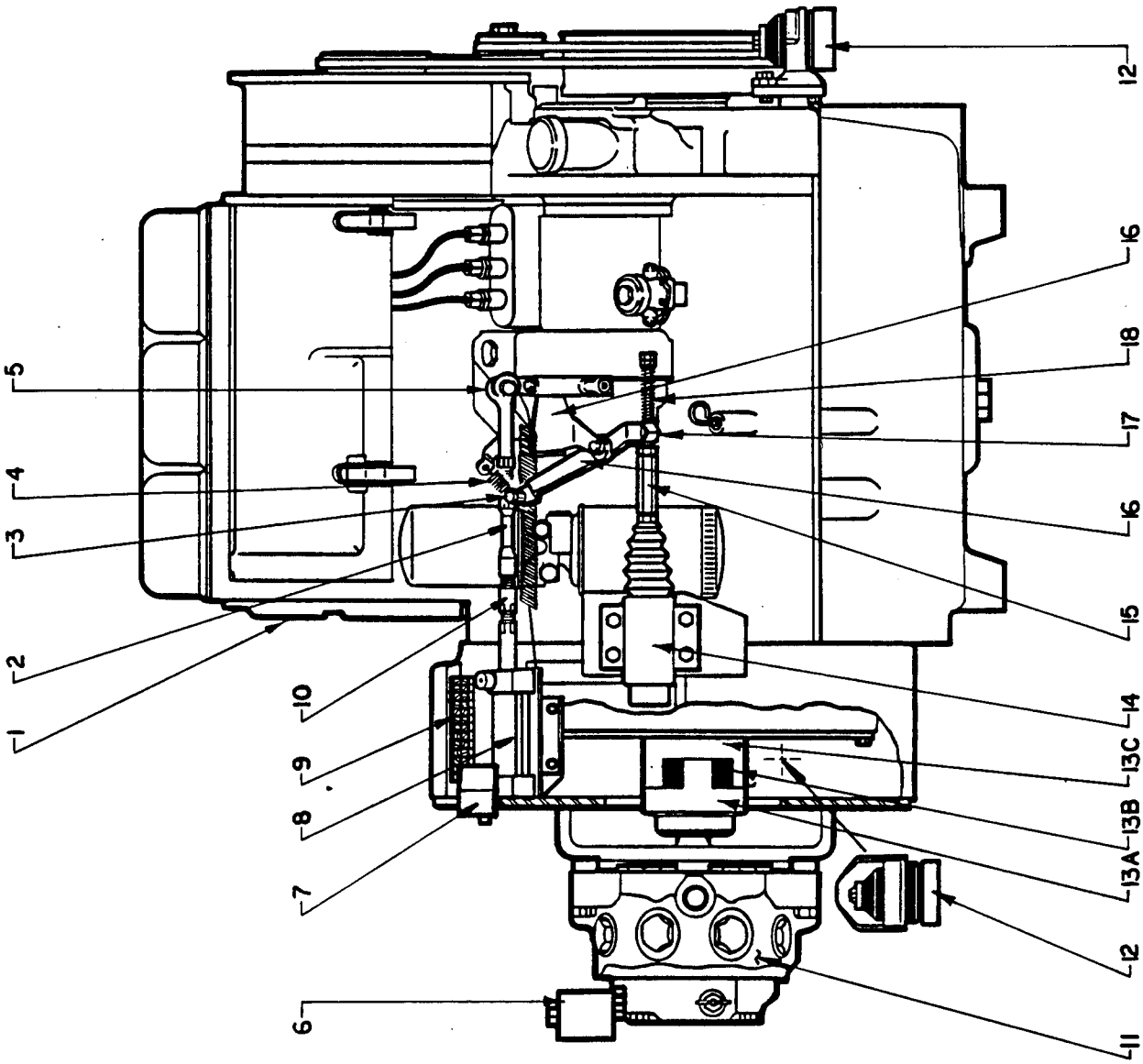


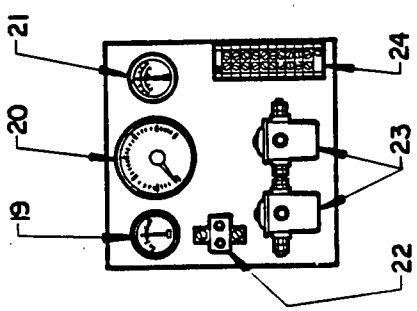
TITLE	DIESEL ENGINE ASSEMBLY, DEUTZ F4L912		
SIMON AERIALS INC. REV. 24 SEP., 1993	PART NO. 2098090	PLATE NO. C04.20	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-001300		DIESEL ENGINE (DEUTZ MODEL #F3L912)	1
2			STRAIGHT U-JOINT	1
3	09-019405		HEX ADAPTER POST	1
4	09-019406		EXTENSION SPRING	1
5			THROTTLE CLEVIS	1
6	01-013700		SOLENOID VALVE, PUMP UNLOADING	1
7	09-000405		SOLENOID VALVE, THROTTLE ADVANCE	1
8	09-000406		THROTTLE CYLINDER (SEAL KIT P/N 09-000412)	1
9	03-068000		TERMINAL BLOCK	1
10			COUPLING	1
11	SEE INDEX	D8	HYDRAULIC PUMP	1
12			MOTOR MOUNT (SUPPLIED W/ENGINE)	4
13	02-012600		COUPLING, COMPLETE	1
13A	02-019200		COUPLING BODY (PUMP HALF)	1
13B	02-008101		SPIDER INSERT	1
13C	02-008503		FLANGE BODY (ENGINE HALF)	1
14	09-000404		SOLENOID, RACK	1
15	09-019401		ROD EXTENSION	1
16	09-019407		PIVOT LEVER ASSEMBLY	1
17	09-019403		HEX SCREW	1
18	09-019404		COMPRESSION SPRING	1
19	03-030400		AMMETER	1
20	09-000407		TACHOMETER	1
21	10-034200		OIL PRESSURE GAUGE	1
22	03-024100		CIRCUIT BREAKER, 10 MAP	1
23	03-051300		RELAY	2
24	03-068000		TERMINAL BLOCK	1

DESCRIPTION	PART NO.
DIESEL ENGINE ASSEMBLY	CAA-209810-2





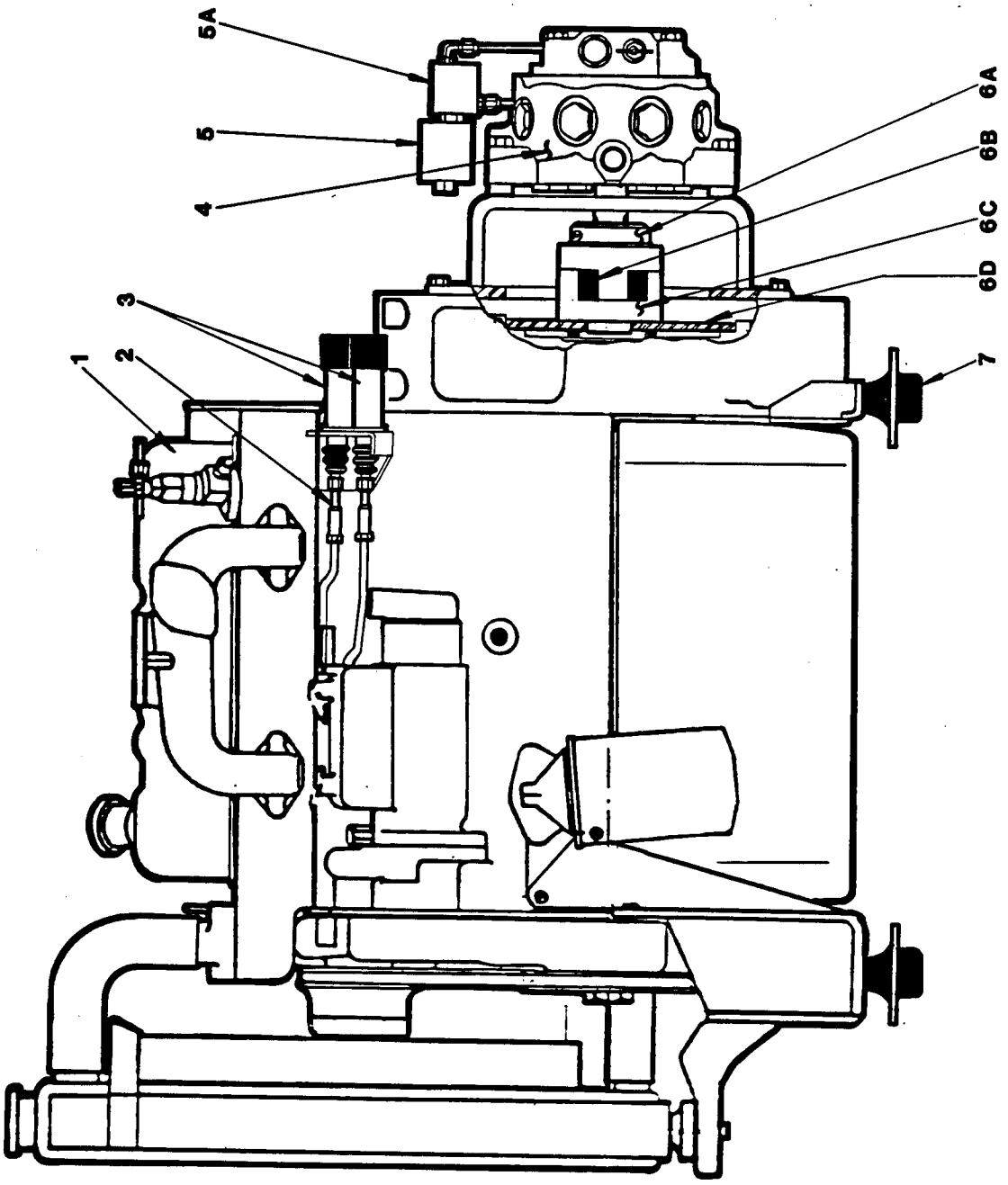
1285/0985

DESCRIPTION	PART NO.
DIESEL ENGINE ASSEMBLY	CAA-209810-2

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	D.8	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	

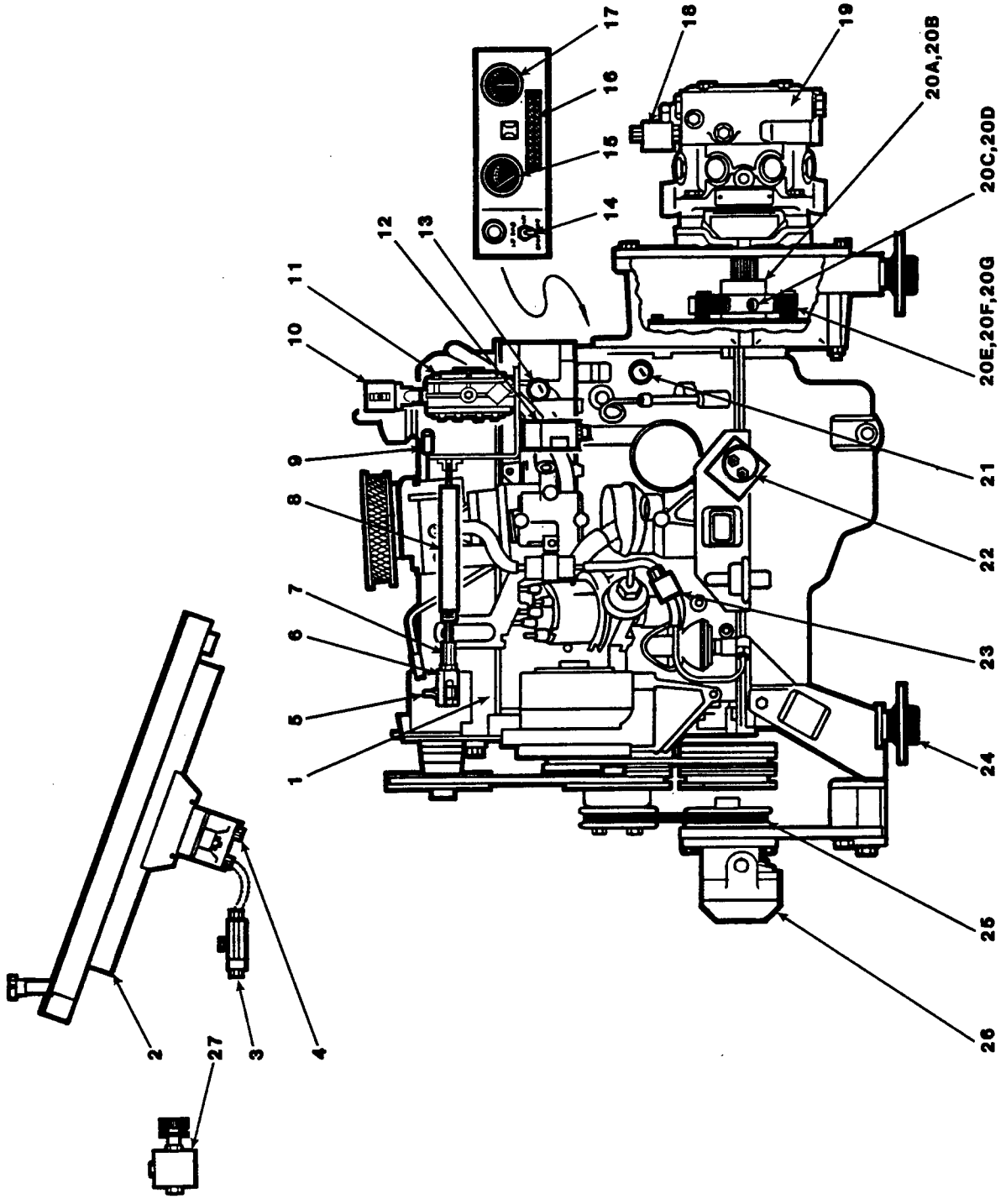


DESCRIPTION	PART NO.
DIESEL ENGINE ASSEMBLY	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-023700		LPG ENGINE, 4CYL. (FORD 2.3L MODEL #423P-423)	1
2	09-025300		RADIATOR	1
3	01-012300		PRESSURE COMPENSATED NEEDLE VALVE	1
4	01-062200		FAN MOTOR, HYDRAULIC	1
5	SBD-211237-0		THROTTLE LINK	1
6	09-028101		CLEVIS	1
7	11-040008		COUPLING, 5/16" NC	1
8	09-028100		THROTTLE CYLINDER, DOUBLE STROKING	1
9	03-414400		CHOKE SOLENOID	1
10			SOLENOID VALVE, PROPANE SHUTOFF	1
11			PROPANE CONVERTER (VAPORIZER)	1
12	09-000405		SOLENOID VALVE, THROTTLE ADVANCE	2
13	03-024300		WATER TEMPERATURE SWITCH	1
14	03-020200		TOGGLE SWITCH, GAS/LPG	1
15	10-034200		OIL PRESSURE GAUGE	1
16	03-068000		TERMINAL STRIP	1
17	03-030400		AMMETER	1
18	01-013700		SOLENOID VALVE, PUMP UNLOADING	1
19	SEE INDEX	D8	HYDRAULIC PUMP, MAIN	1
20	02-011400		PUMP COUPLING, COMPLETE	1
20A			CYLINDRICAL HUB	1
20B			SPLINE LOCK SCREW, CYLINDRICAL HUB	2
20C			RADIAL INSERT	3
20D			SHOULDER SCREW, RADIAL INSERT	3
20E			HYTREL INSERT	1
20F			SHOULDER SCREW, HYTREL INSERT	3
20G			AXIAL DRIVE PIN, HYTREL INSERT	3
21	09-024400		OIL PRESSURE SWITCH	1
22			RELAY, STARTER (SUPPLIED W/ENGINE)	1
23	09-017100		FUEL SHUTOFF VALVE	1
24	09-006500		MOTOR MOUNT	4
25	10-070600		V-BELT	1
26	01-072200		HYDRAULIC PUMP, FAN	1
27	01-011400		CARTRIDGE RELIEF VALVE	1

DESCRIPTION	PART NO.
WATER COOLED GAS ENGINE ASSEMBLY	

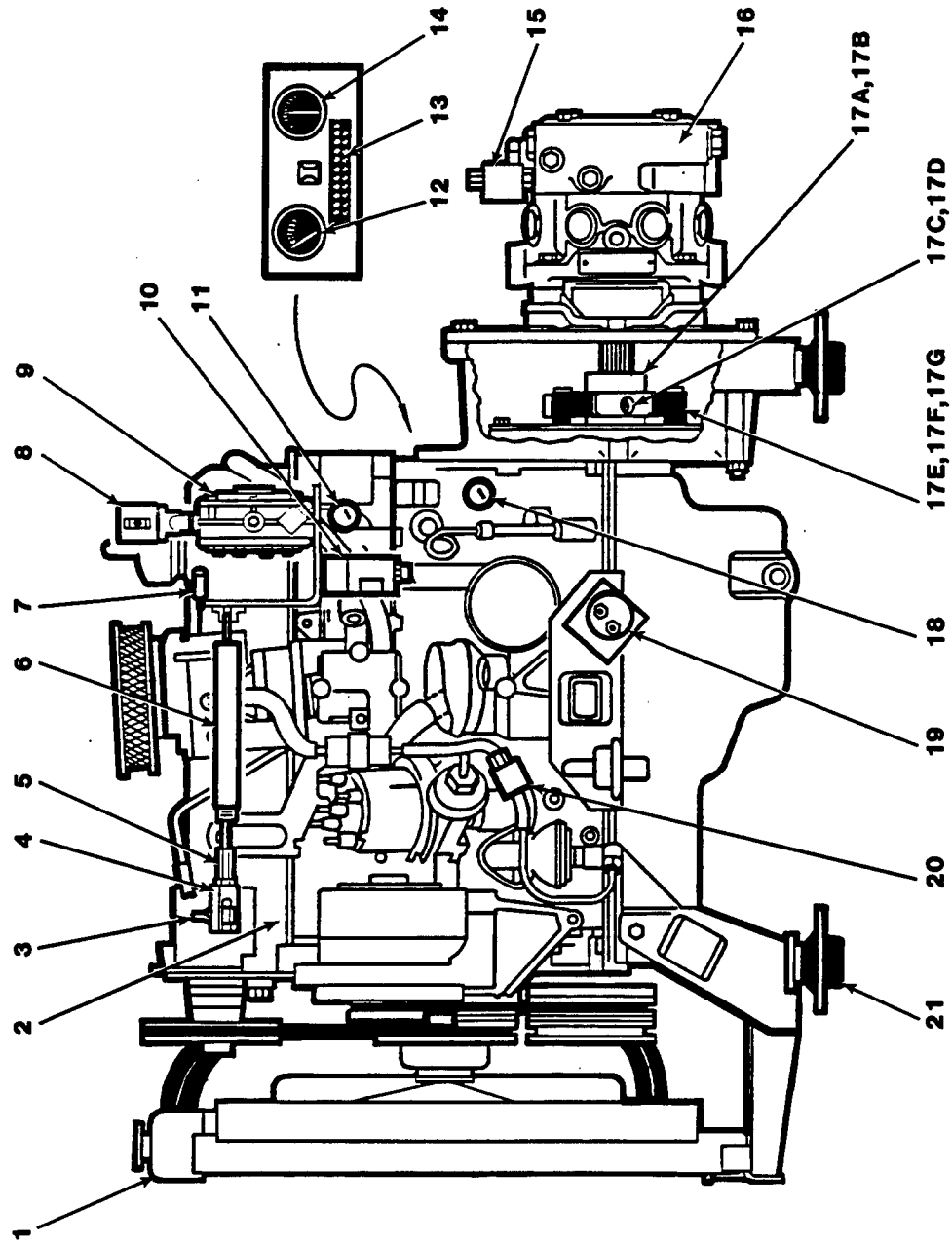


DESCRIPTION	PART NO.
WATER COOLED GAS ENGINE ASSEMBLY	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			RADIATOR (SUPPLIED W/ENGINE)	1
2	09-017800		GAS ENGINE, 4 CYL. (FORD 2.3L MODEL LSG-423)	1
3	SBD-211237-0		THROTTLE LINK	1
4	09-028101		CLEVIS	1
5	11-040008		COUPLING, 5/16NC	1
6	09-028100		THROTTLE CYLINDER, DOUBLE STROKING	1
7	03-414400		CHOKE SOLENOID	1
8			SOLENOID VALVE, PROPANE SHUTOFF	1
9			PROPANE CONVERTER (VAPORIZER)	
10	09-000405		SOLENOID VALVE, THROTTLE ADVANCE	2
11	03-024300		WATER TEMPERATURE SWITCH	1
12	10-034200		OIL PRESSURE GAUGE	1
13	03-068000		TERMINAL STRIP	1
14	03-030400		AMMETER	1
15	01-013700		SOLENOID VALVE, PUMP UNLOADING	1
16	SEE INDEX	D8	HYDRAULIC PUMP	1
17	02-011400		PUMP COUPLING, COMPLETE	1
17A			CYLINDRICAL HUB	1
17B			SPLINE LOCK SCREW, CYLINDRICAL HUB	2
17C			RADIAL INSERT	3
17D			SHOULDER SCREW, RADIAL INSERT	3
17E			HYTREL INSERT	1
17F			SHOULDER SCREW, HYTREL INSERT	3
17G			AXIAL DRIVE PIN, HYTREL INSERT	3
18	09-024400		OIL PRESSURE SWITCH	1
19			STARTER RELAY (SUPPLIED W/ENGINE)	1
20	09-017100		GAS SHUTOFF VALVE	1
21	09-006500		MOTOR MOUNT	4

DESCRIPTION	PART NO.
WATER COOLED GAS ENGINE ASSEMBLY	



0287/0986

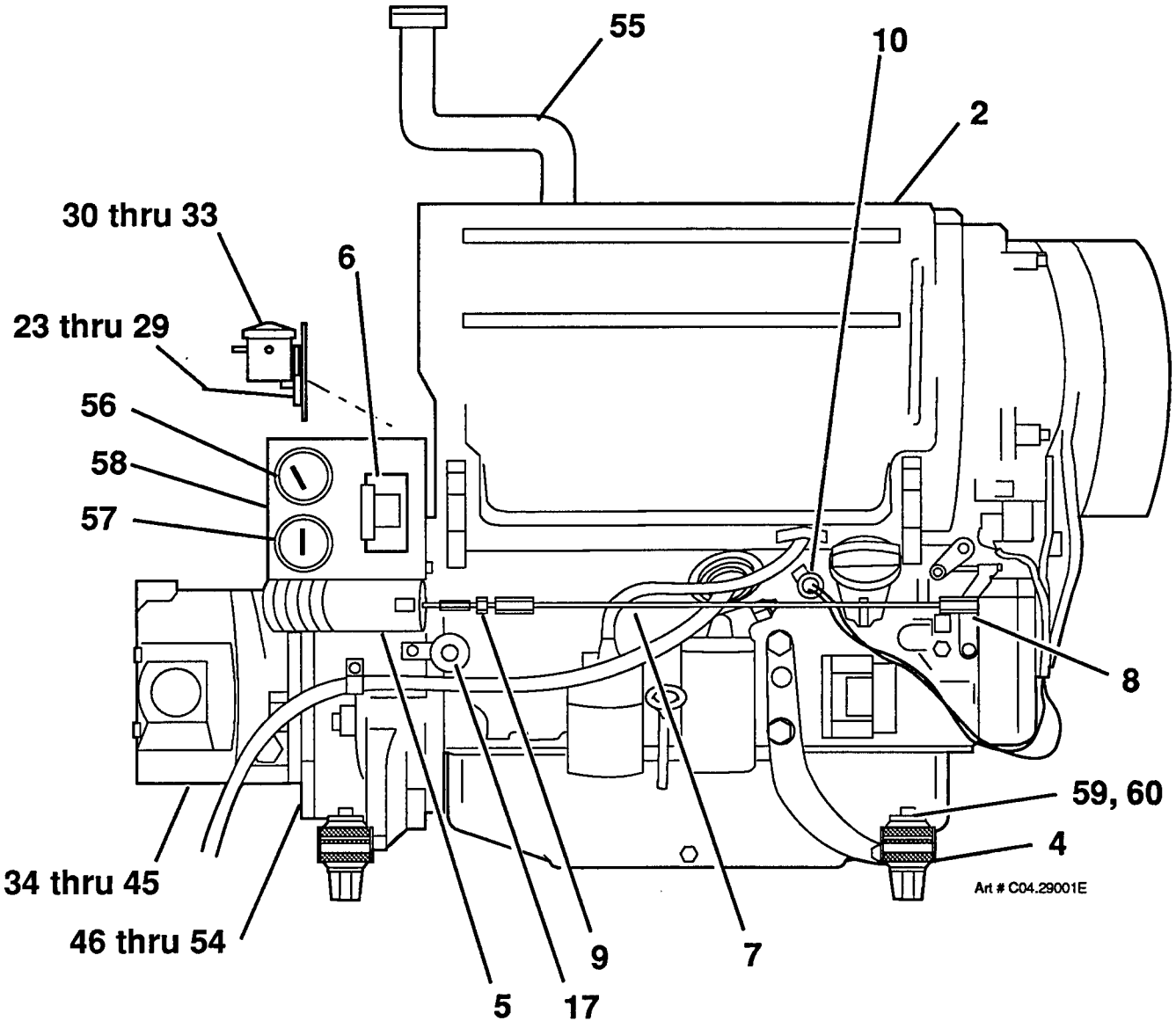
DESCRIPTION	PART NO.
WATER COOLED GAS ENGINE ASSEMBLY	

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.



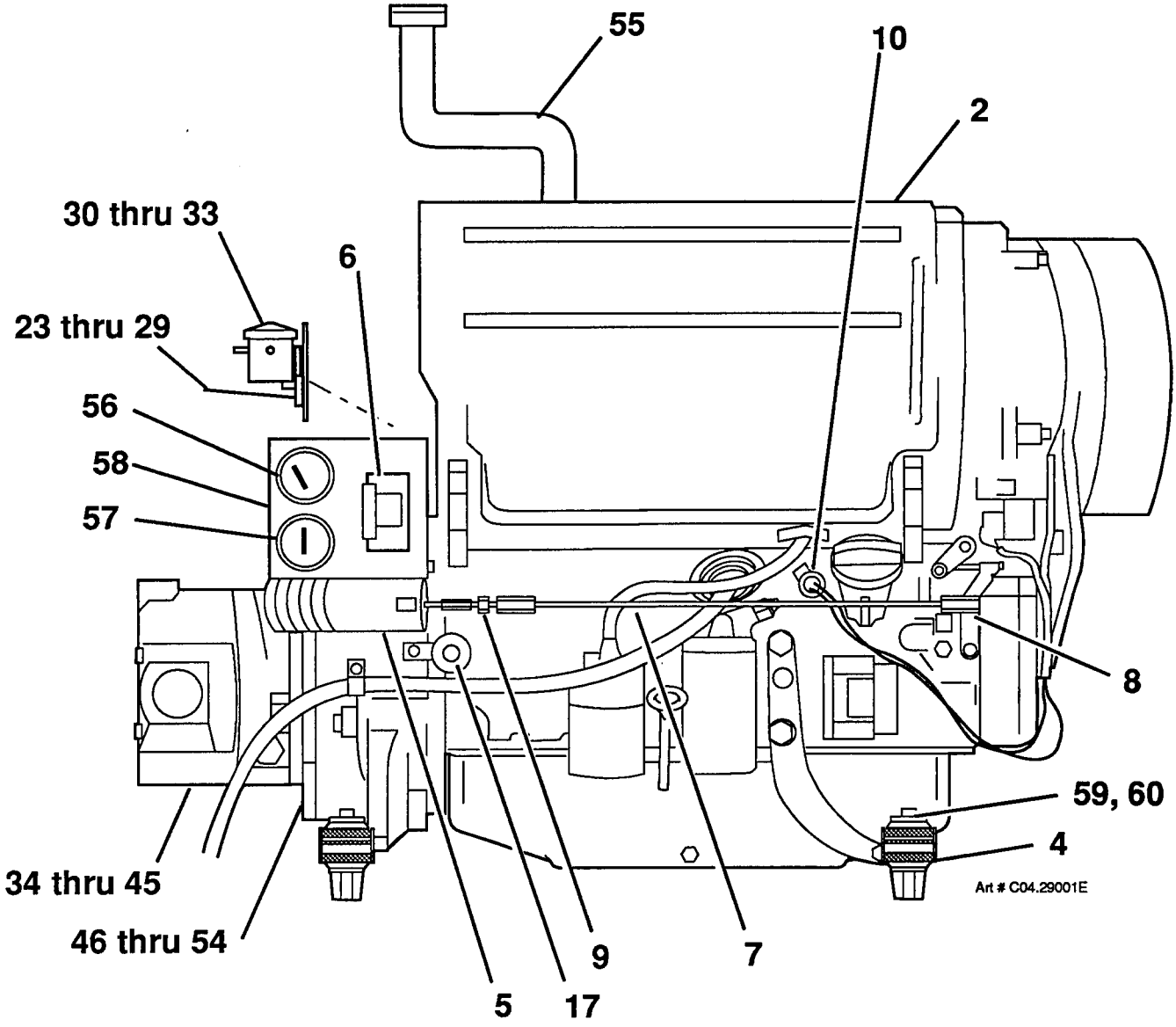
TITLE	ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 27 JAN., 1994	PART NO.	PLATE NO. C04.29

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.			PART NO.
C04.29	**SIMON AERIALS INC.**	REV. 27 JAN., 1994	

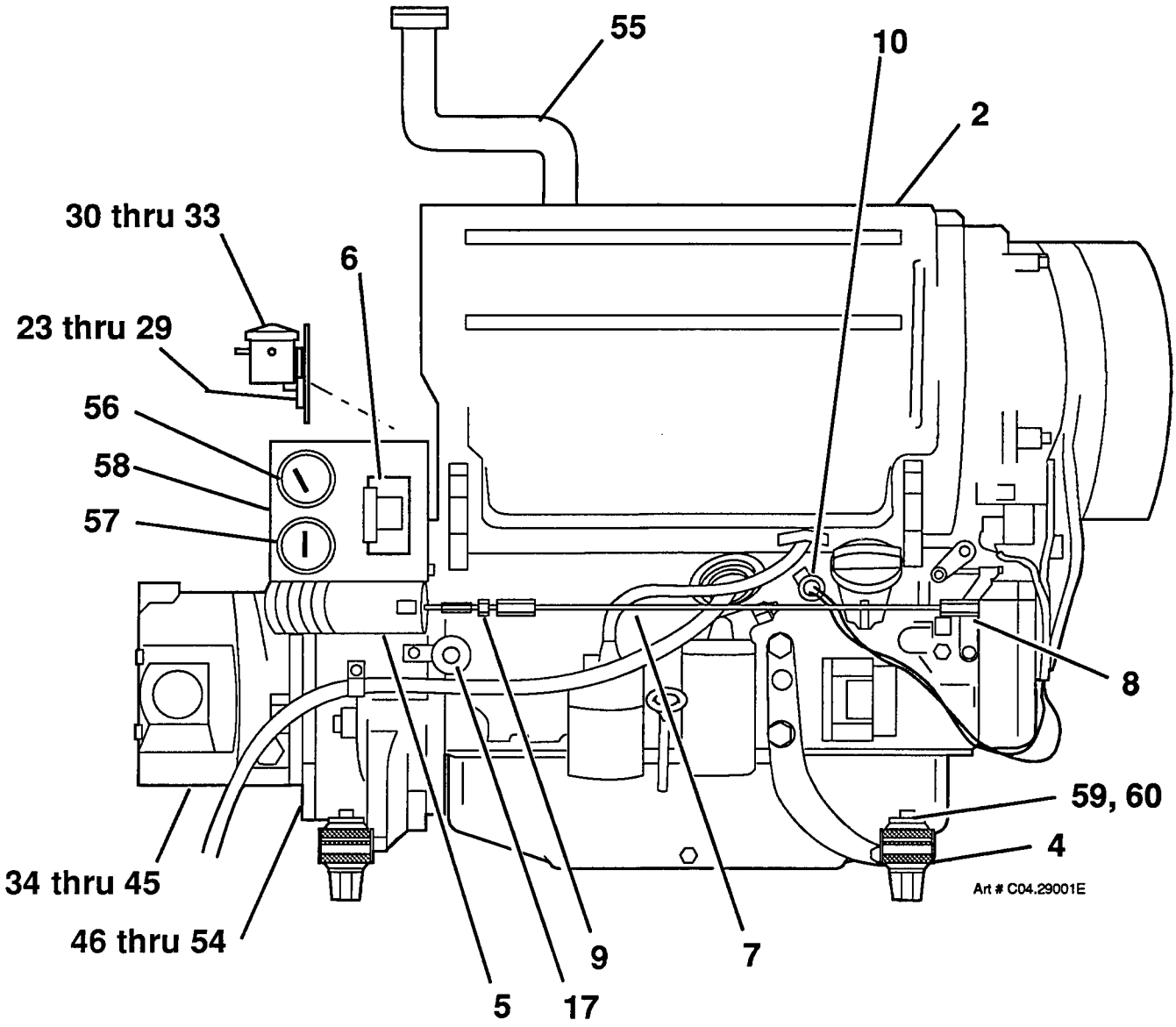


TITLE	ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 2 OF 3)		
SIMON AERIALS INC.	REV. 27 JAN., 1994	PART NO.	PLATE NO. C04.29

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.

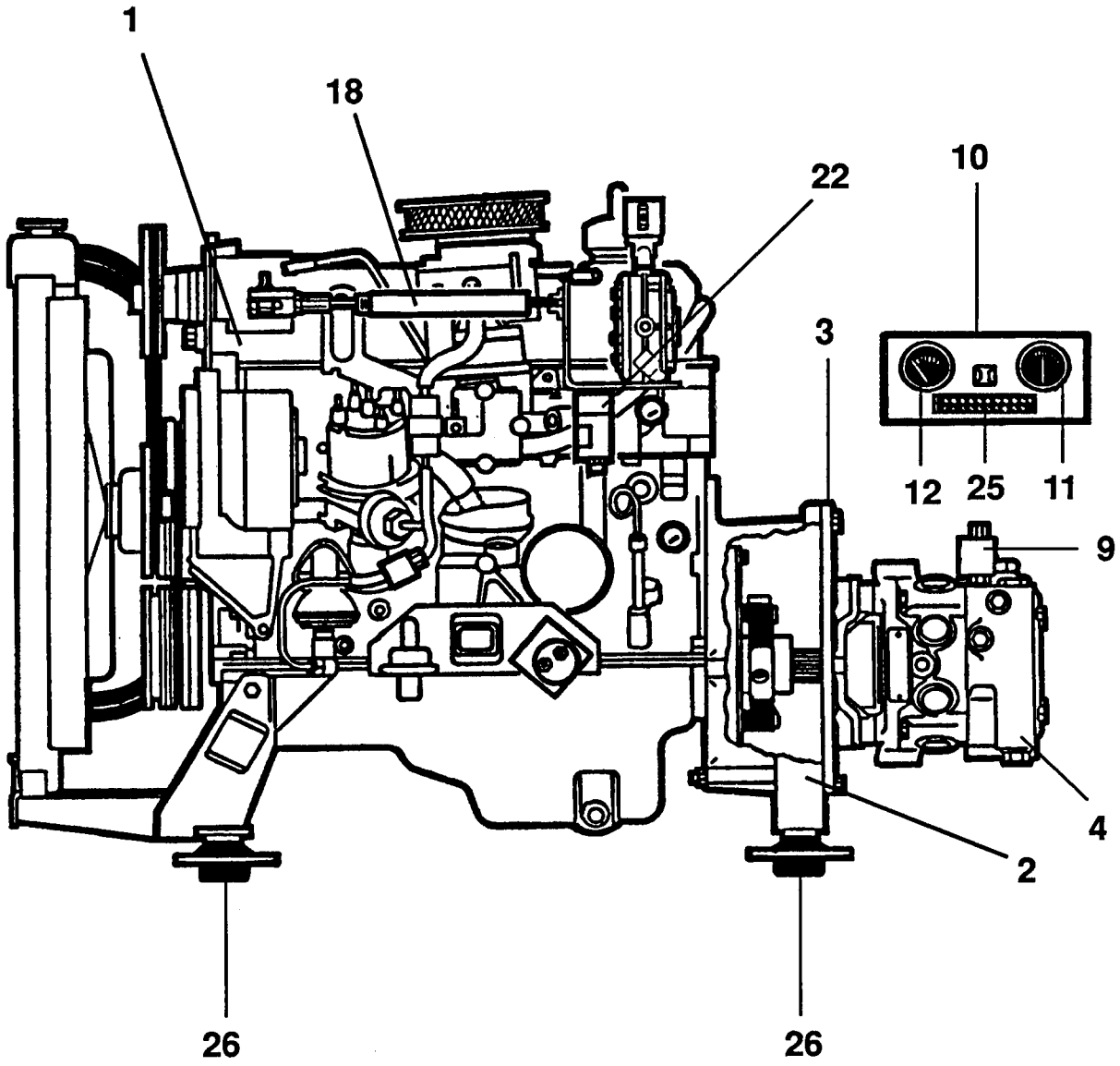


TITLE	ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 27 JAN., 1994	PART NO.	PLATE NO. C04.29

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	09-024500		ENGINE, FORD 2.3L, PROPANE	1
2	02-011400		COUPLING	1
3	02-011500		PLATE, ADAPTER	1
4	01-019500		PUMP, HYDRAULIC	1
5	06-195700		ELBOW, BEADED	1
6	06-202100		FLANGE, ADAPTER	1
7	06-045600		ELBOW (12-16 C50X)	2
8	06-044700		ELBOW (T6-8C 50X)	1
9	01-013700		VALVE, SOLENOID (Pump Stroke)	1
10	2111220		BRACKET, MOUNTING GUAGE	1
11	03-030400		METER, AMP	1
12	10-034200		GUAGE, OIL PRESSURE	1
13	06-203200		TEE (1/8")	1
14	06-081300		ELBOW (1/8" STREET)	2
15	06-199300		CONNECTOR (3/16" TUBE x 1/8" NPT)	4
16	06-201000		BUSHING (3/8" x 1/8")	1
17	06-198700		CONNECTOR (3/16" TUBE x 1/4" NPT)	1
18	09-032000		CYLINDER, THROTTLE	1
19	01-072300		BREATHER (1/8 NPT)	1
20	11-040000		NUT, COUPLER (1/4" - 20)	1
21	2113350		BRACKET, THROTTLE CYLINDER MOUNTING	1
22	09-000405		VALVE, THROTTLE	1
23	06-198600		ELBOW, 90° (3/16" TUBE x 1/4" NPT)	3
24			TUBING (3/16 dia.)	AR
25	03-068000		BLOCK, TERMINAL (10 Conductors)	1
26	09-006500		MOUNT, MOTOR	4
27	09-015800		SWITCH, VACUUM	1
28	03-074000		CABLE, GROUND STRAP	1
29	09-021200		MUFFLER	1
30	10-003900		CAP, RAIN	1
31	09-028000		HOSING, FLEXIBLE, EXHAUST (1-7/8" ID)	18 IN.
32	09-015400		CLAMP, EXHAUST (2")	2
33	2179090		ADAPTER	1
34	11-050001		ELBOW, 90° (2")	1
35	11-076300		NIPPLE, PIPE (2" x 6")	1

TITLE	ENGINE ASSEMBLY, FORD 2.3 L, PROPANE		
PLATE NO. C04.30	**SIMON AERIALS INC.**	REV. 03/29/91	PART NO.

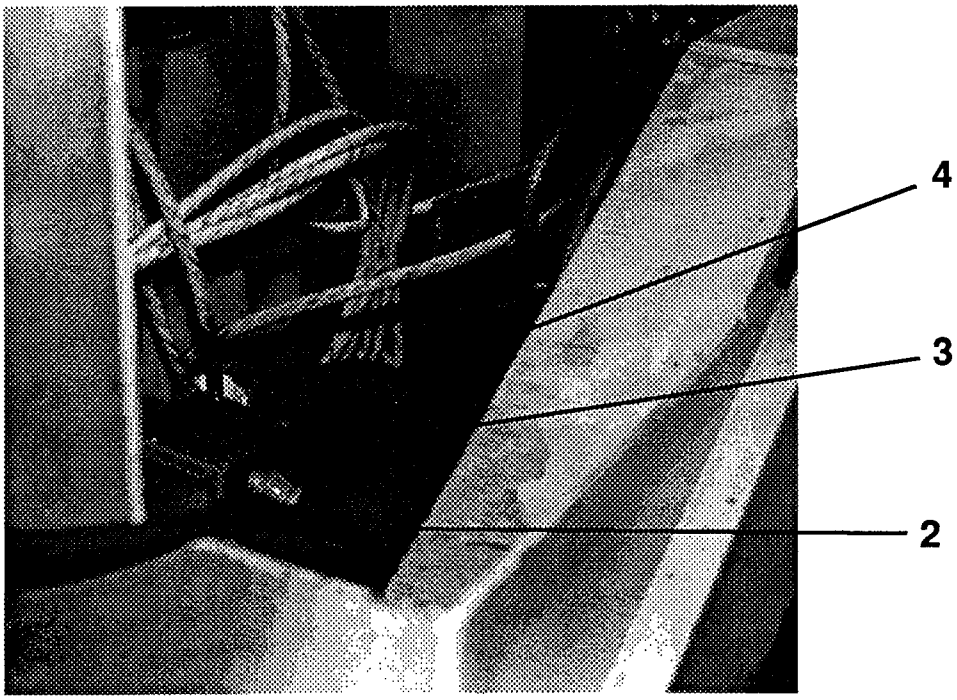


TITLE	ENGINE ASSEMBLY, FORD 2.3 L, PROPANE		
SIMON AERIALS INC. REV. 03/29/91		PART NO.	PLATE NO. C04.30

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2178540		BASE, PUMP/ MOTOR (Not Shown)	1
2	03-038400		MOTOR, ELECTRIC EXPLOSION PROOF (575 Volt)	1
3	02-010100		COUPLING, PUMP/ MOTOR	1
4	01-073100		PUMP, HYDRAULIC (L15, RC)	1
5	09-006500		MOUNT, RUBBER (Not Shown)	4
6	07-003049		CAP SCREW, HEX HEAD (3/8"-16 x 2") (Not Shown)	8
7	07-062016		WASHER, FLAT (3/8") (Not Shown)	8
8	07-050016		NUT, HEX LOCK (3/8"-16) (Not Shown)	8

TITLE	ELECTRIC MOTOR ASSEMBLY, AC	
PLATE NO. C05.03	**SIMON AERIALS INC.** REV. 03/29/91	PART NO.

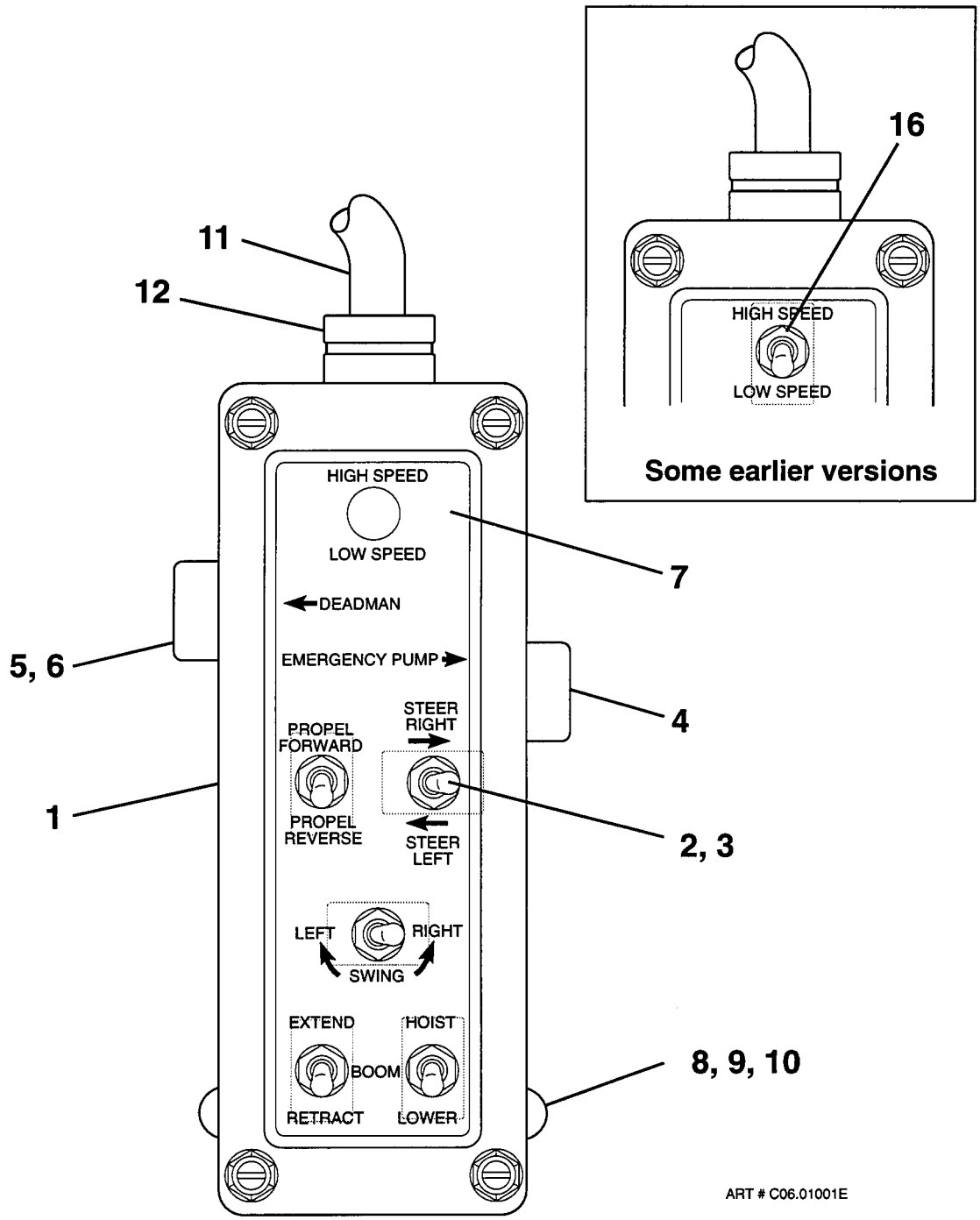


TITLE	ELECTRIC MOTOR ASSEMBLY, AC		
SIMON AERIALS INC.	REV. 03/29/91	PART NO.	PLATE NO. C05.03

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.

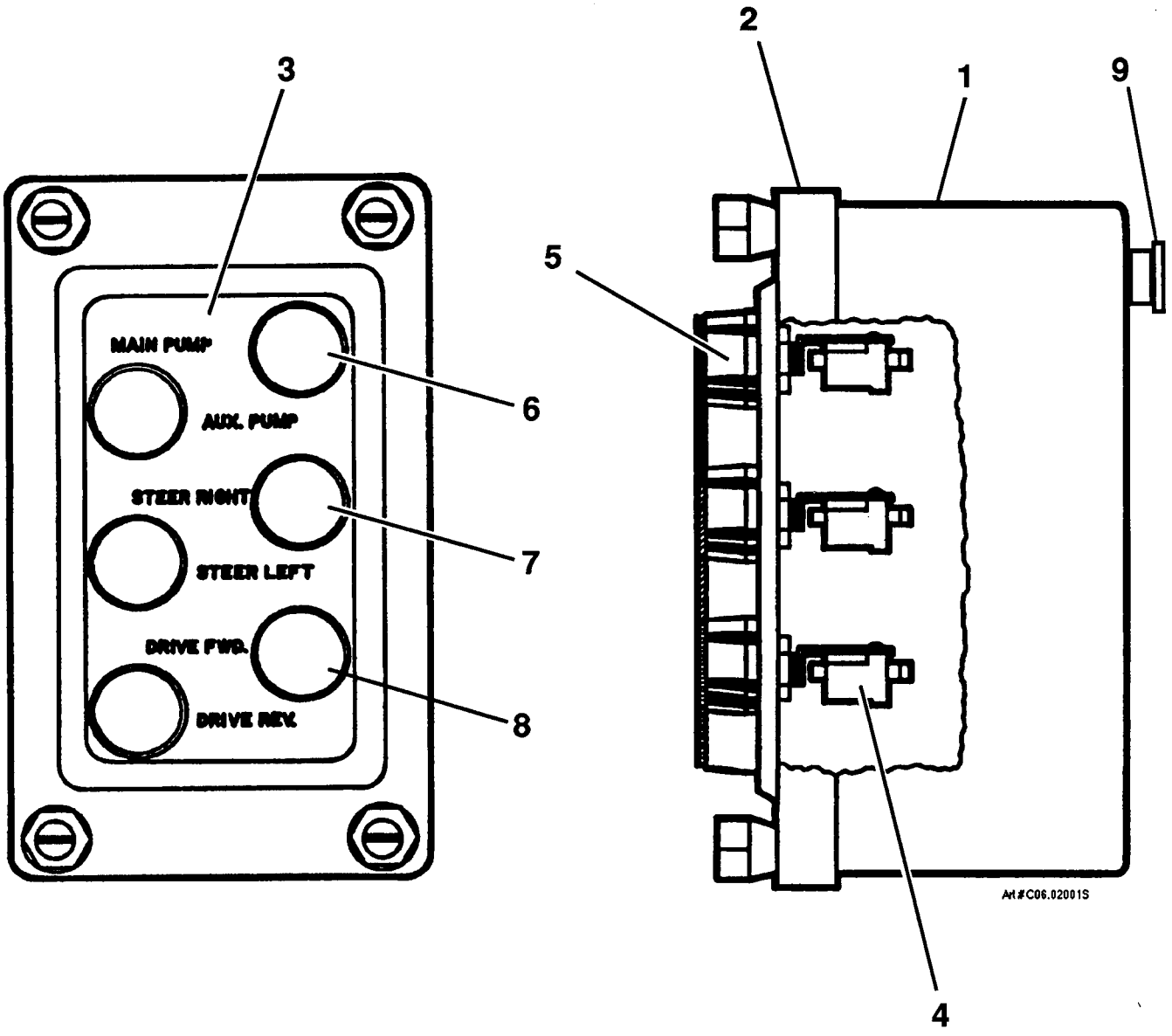


TITLE	REMOTE CONTROL PENDANT ASSEMBLY		
SIMON AERIALS INC. REV. 18 NOV., 1994		PART NO.	PLATE NO. C06.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2113380		BOX, CONTROL, (Drilled. Includes cover)	1
	03-406100		BOX, CONTROL, (Undrilled. Includes cover)	1
2			COVER, CONTROL BOX	1
3	10-067200		DECAL, REMOTE CONTROL PENDANT	1
4	03-402500		SWITCH (10 Amp, 250 Volt AC, Double pole, single throw)	6
5	03-402600		BEZEL, SWITCH OPERATOR (Push button, sealed)	6
6	03-402700		INSERT, PUSH BUTTON (Red) (Main/ Auxiliary Pump)	2
7	03-402900		INSERT, PUSH BUTTON (Green) (Steer Left/ Right)	2
8	03-402800		INSERT, PUSH BUTTON (Blue) (Drive Forward/ Reverse)	2
9	01-031705		KNOB, VALVE (for attachment to bracket)	2
10	03-446100		CABLE, ELECTRICAL (#18 AWG, 10 conductor) [12' (3.66 M) needed for this application]	A.R.
11	03-041000		GRIP, CORD (1/2", sealing)	1

TITLE	PENDANT ASSEMBLY, REMOTE CONTROL		
PLATE NO. C06.02	**SIMON AERIALS INC.** REV. 10 APR., 1992	PART NO. 3510225	



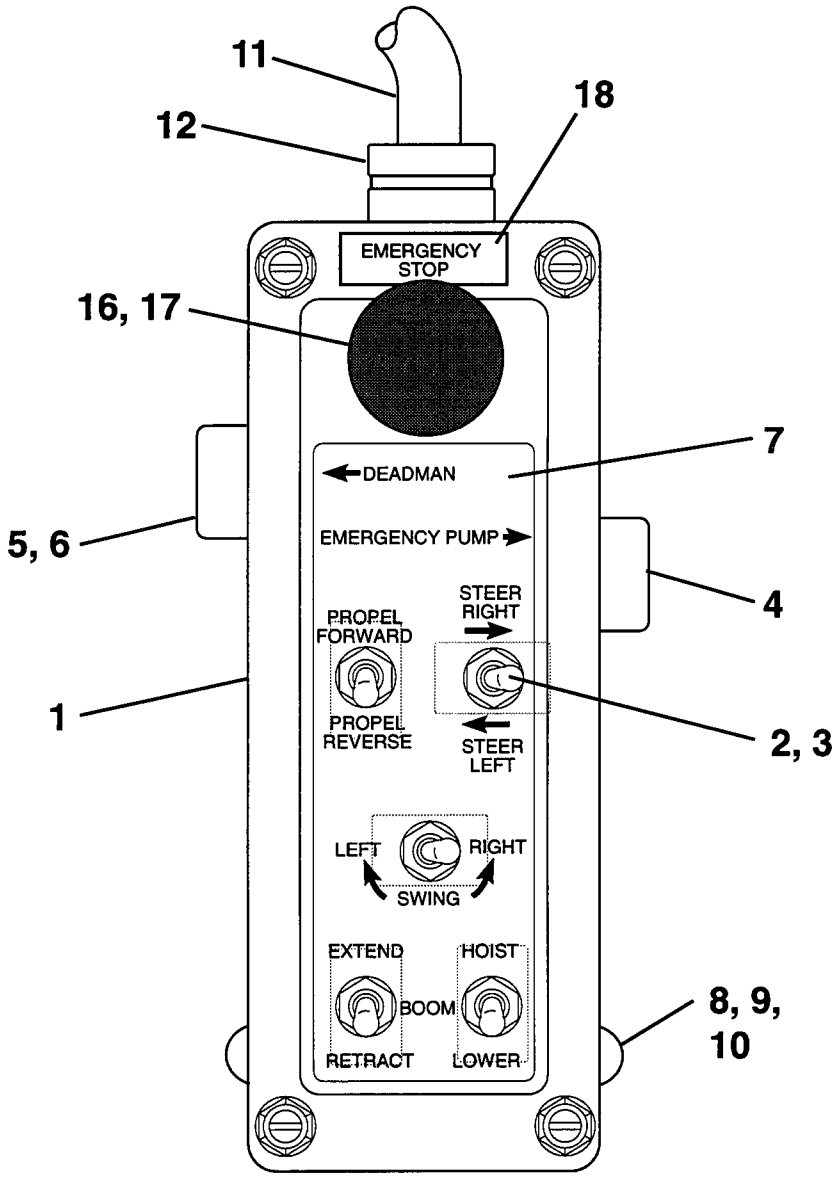
TITLE	PENDANT ASSEMBLY, REMOTE CONTROL		
SIMON AERIALS INC. REV. 10 APR., 1992		PART NO. 3510225	PLATE NO. C06.02

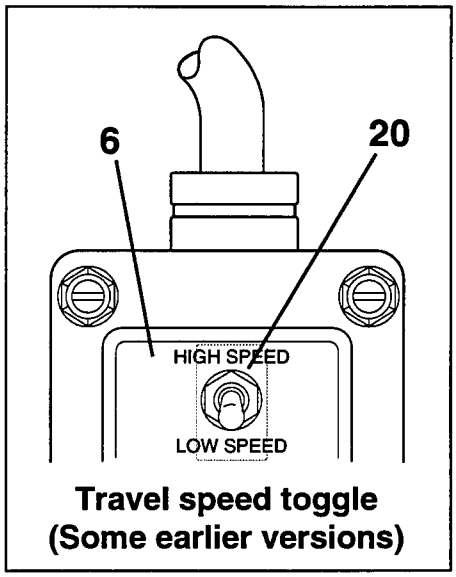
PARTS LIST

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

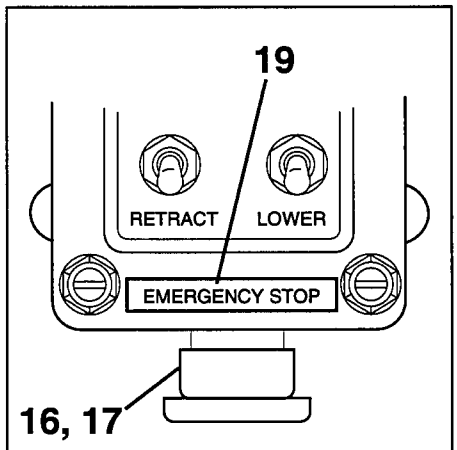
TITLE REMOTE CONTROL PENDANT ASSEMBLY (WITH "EMERGENCY STOP")

PLATE NO.			PART NO.
C06.03	**SIMON AERIALS INC.**	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

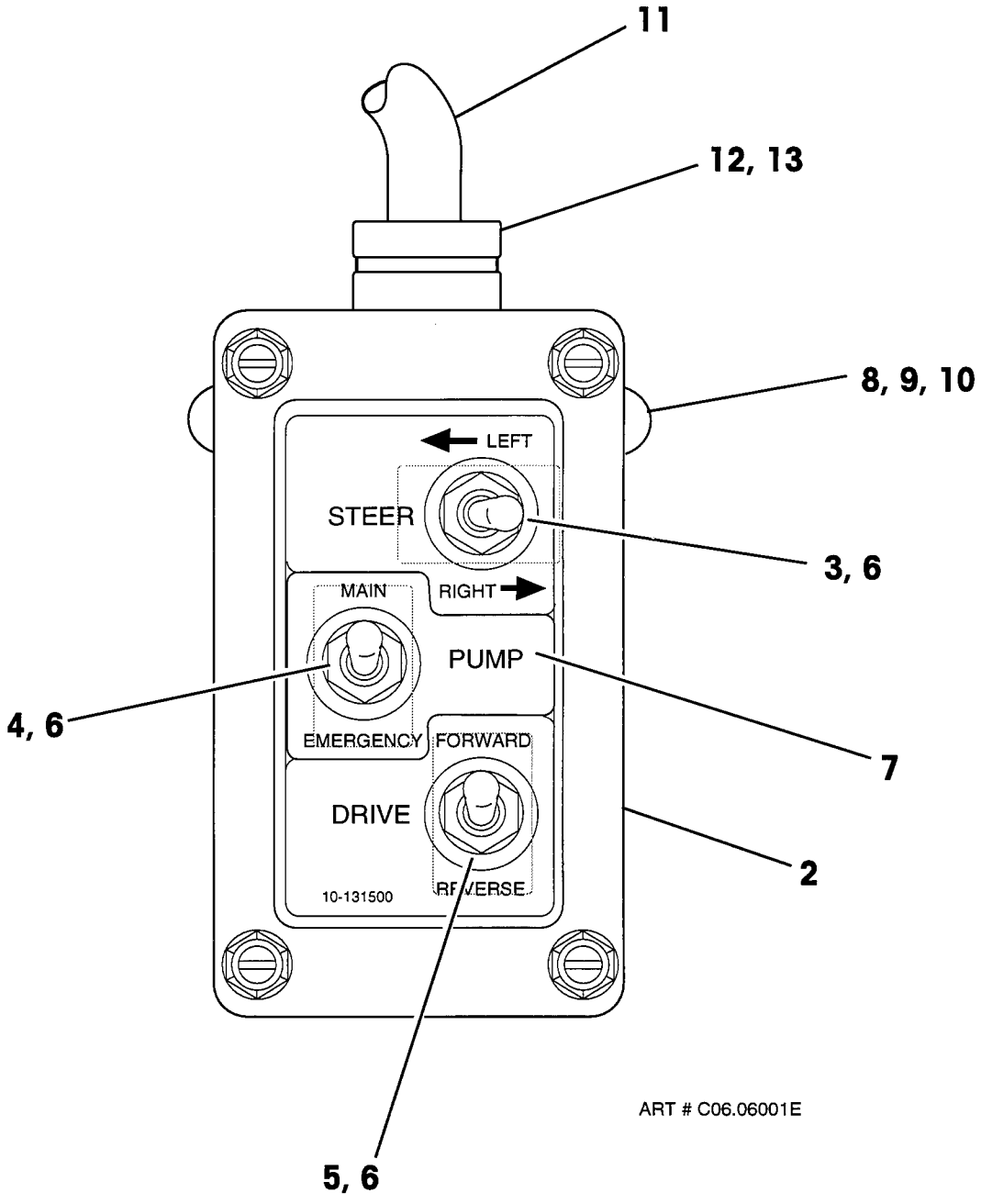
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	352 9370		PENDANT ASSEMBLY, REMOTE CONTROL	1
2			BOX, CONTROL (includes cover)	1
	219 3970		drilled for this application	
	03-406100		undrilled box	
3	03-020500		SWITCH, TOGGLE (Steer) (Three position, momentary contact, single pole, double throw)	1
4			SWITCH, TOGGLE (Pump) (Three position, momentary contact)	1
	03-020500		single pole, double throw (current versions)	
	03-020600		double pole, double throw (some earlier versions)	
5	03-020600		SWITCH, TOGGLE (Drive) (Three position, momentary contact, double pole, double throw)	1
6	03-497900		SEAL, PANEL	3
7	10-131500		DECAL, REMOTE CONTROL PENDANT Current style has White and Red lettering on Black background. Earlier style has Black lettering on a White background.	1
			Appearance change only, current style will be supplied.	
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)	10
11	03-446100		CABLE, ELECTRICAL (#18 AWG, 10 conductor) (10 ft [3.05 m] needed for this application)	A.R.
12	03-041700		GRIP, CORD (3/8", with .31" to .38" seal)	1
13	03-055700		NUT, CONDUIT LOCK (3/8")	1
14	03-091200		TERMINAL, SPADE (Blue, #6 stud, #14-16 AWG)	12
15	03-064000		TIE, CABLE (7.4" [188 mm] long)	5
16	03-064100		MOUNT, CABLE TIE (adhesive backed)	1

TITLE

PENDANT ASSEMBLY, REMOTE CONTROL

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
C06.	06	01	A	14 FEB., 1997	352 9370

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 # C06.06001E

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

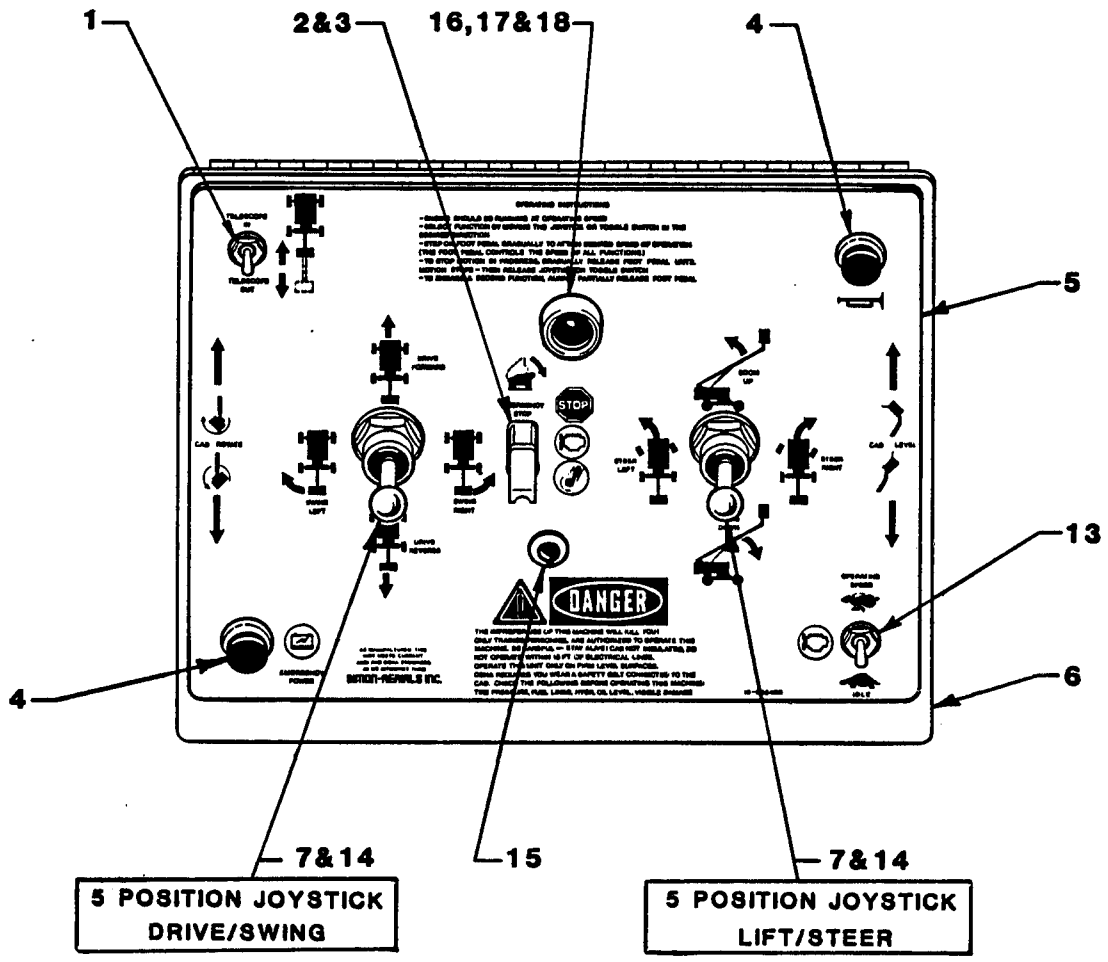
PENDANT ASSEMBLY, REMOTE CONTROL

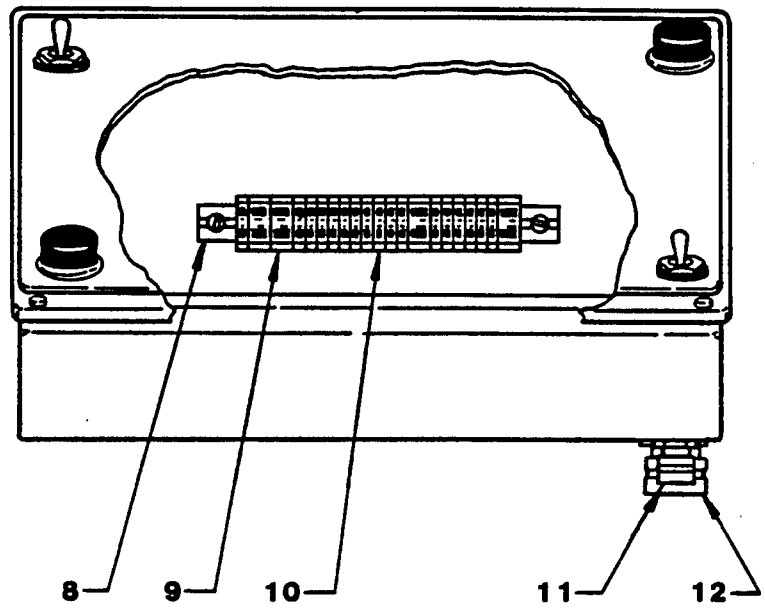
PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
352 9370	A	14 FEB., 1997	C06.	06	01

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 GAURD - EMERG. STOP	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	03-402500		CHOKE SWITCH DPST	1
17	03-402600		BEZEL, CHOKE SWITCH OPERATOR	1
18	03-402800		SWITCH OPERATOR, CHOKE	1

DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE ASSEMBLY	**3508183**





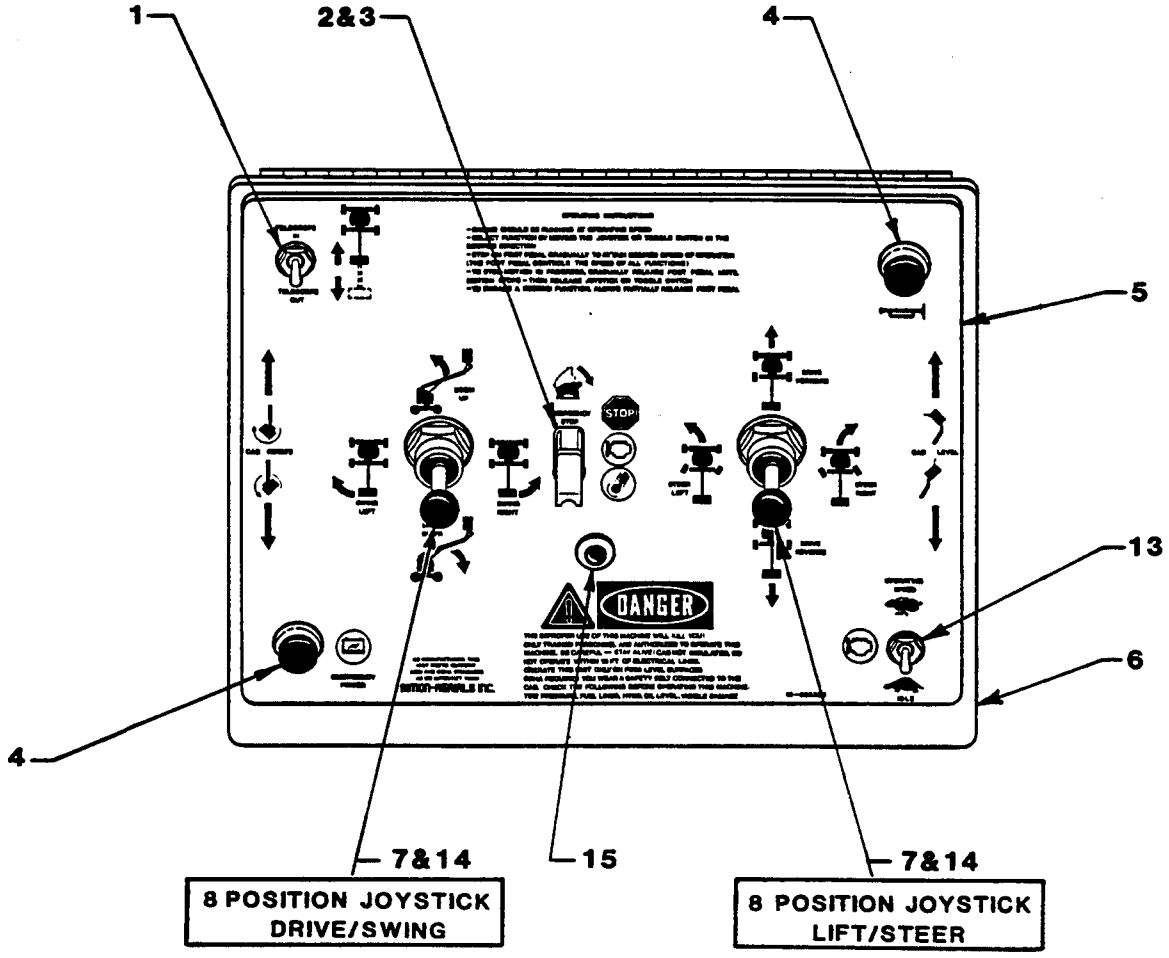
0486/0284

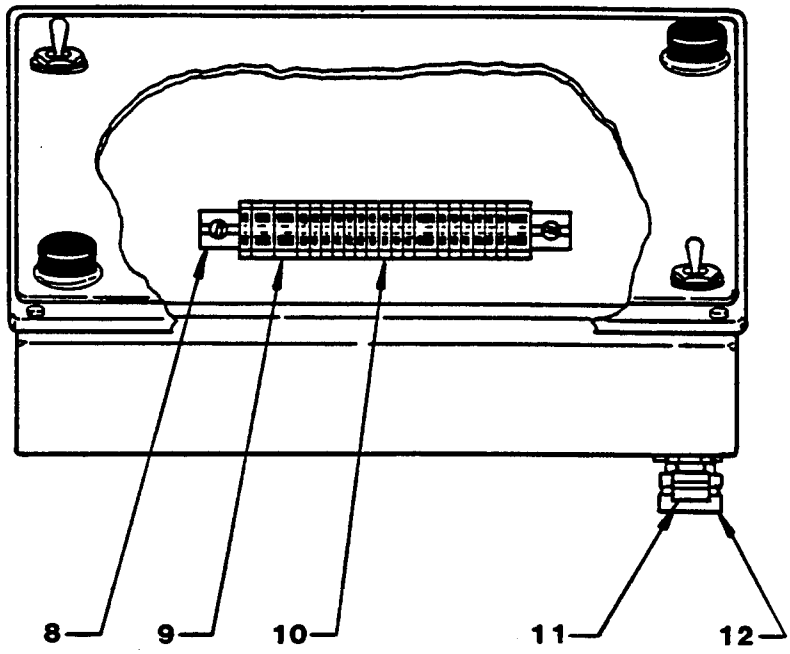
DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE ASSEMBLY	3508183

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**



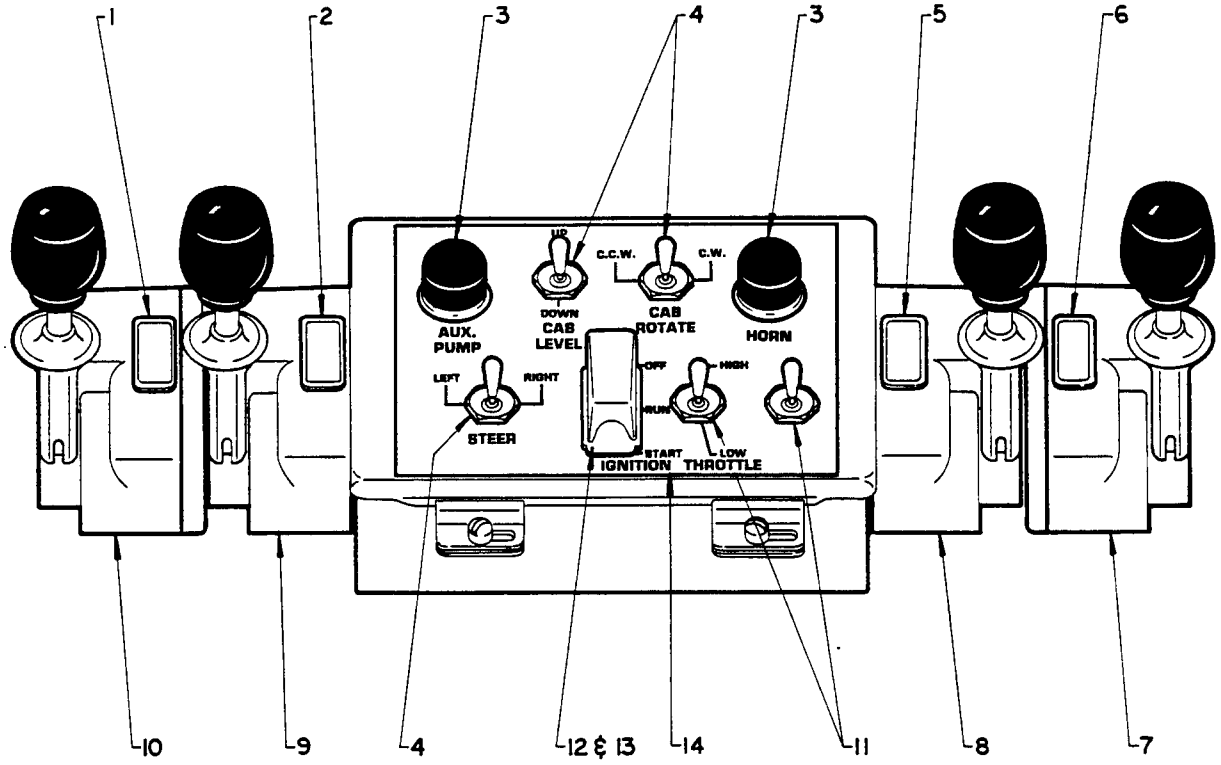


DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE ASSEMBLY	3510401

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



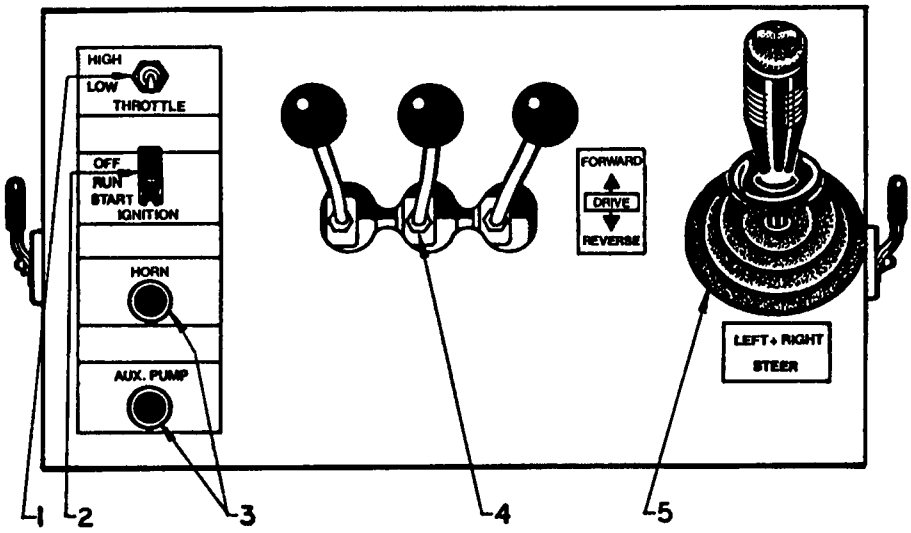
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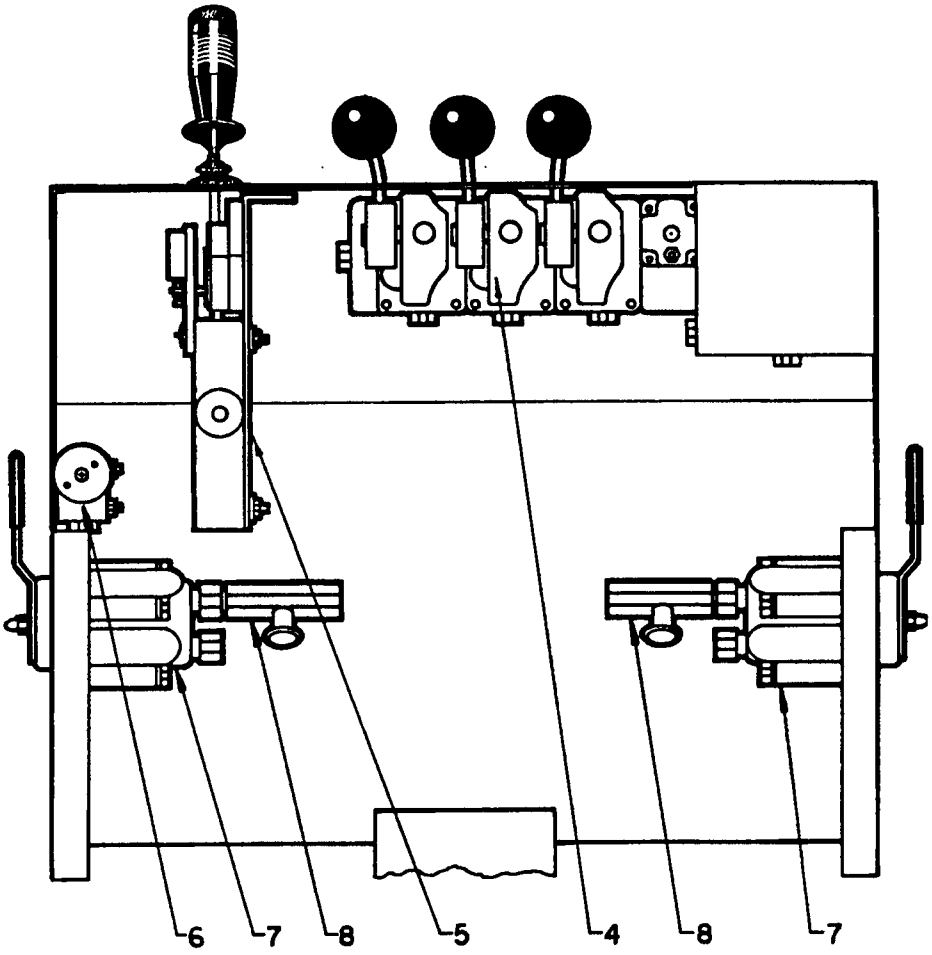
DESCRIPTION	PART NO.
CONTROL CONSOLE (PROPORTIONAL)	CAA-208491-2

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-021400		SWITCH, TOGGLE (throttle)	1
2	03-032600		SWITCH, TOGGLE (ignition/engine start)	1
3	03-020300		SWITCH, PUSHBUTTON (horn/emergency pump)	2
4	01-061700		VALVE BANK, PLATFORM	1
5	3510034	D18.01	VALVE, CONTROL (drive/steer)	1
6	01-034400		VALVE, 2-WAY SOLENOID (to January 1990)	1
	01-201000		VALVE, 2-WAY SOLENOID (replacement for 01-20100)	1
7	01-008000	D14.01	VALVE, 4-WAY MANUAL CONTROL	2
8	01-018900		VALVE, NEEDLE (#6 SAE PORTS)	2

TITLE	CONTROL CONSOLE (FULL HYDRAULIC)	
PLATE NO. C08.08	**SIMON AERIALS INC.** REV. 09/07/90	PART NO.



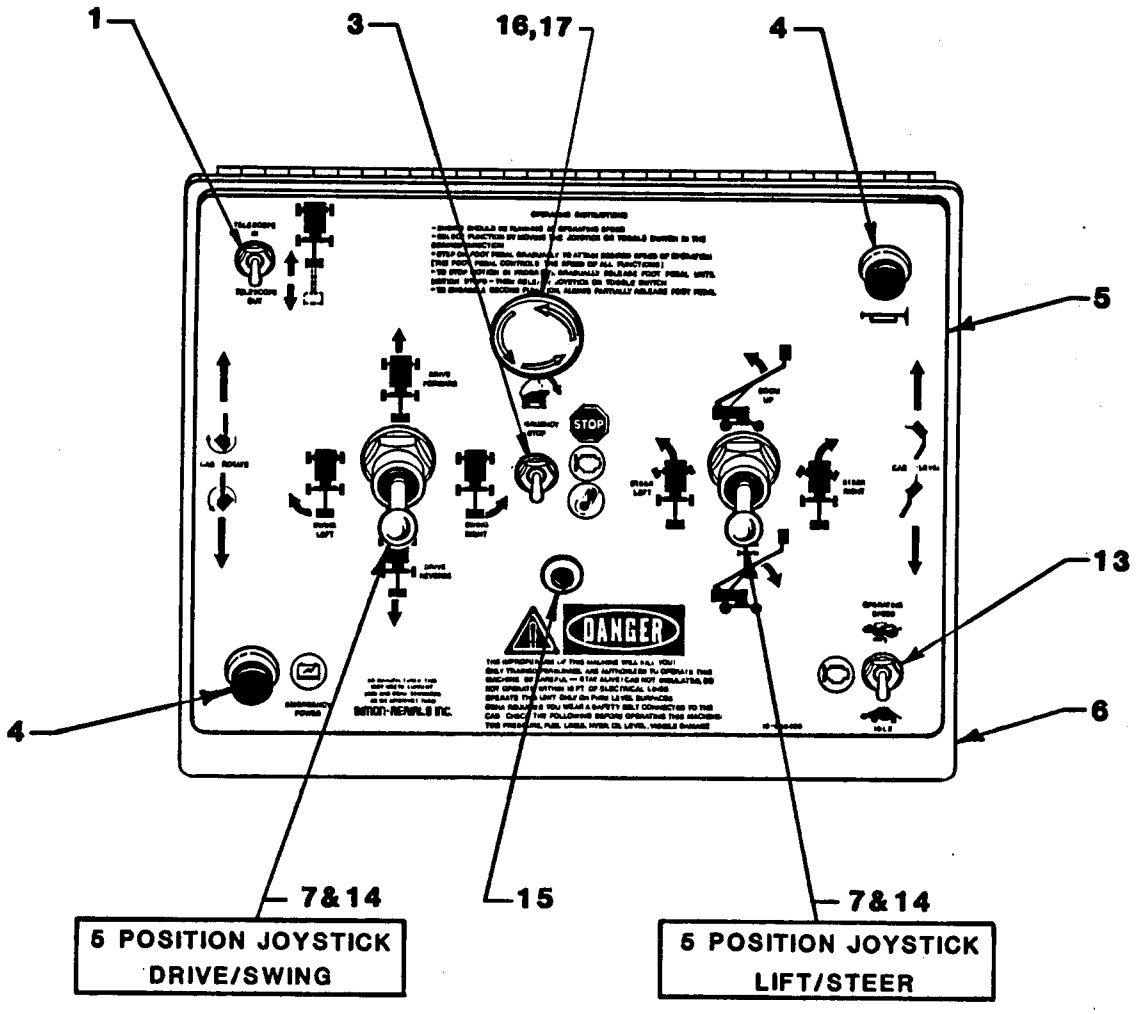


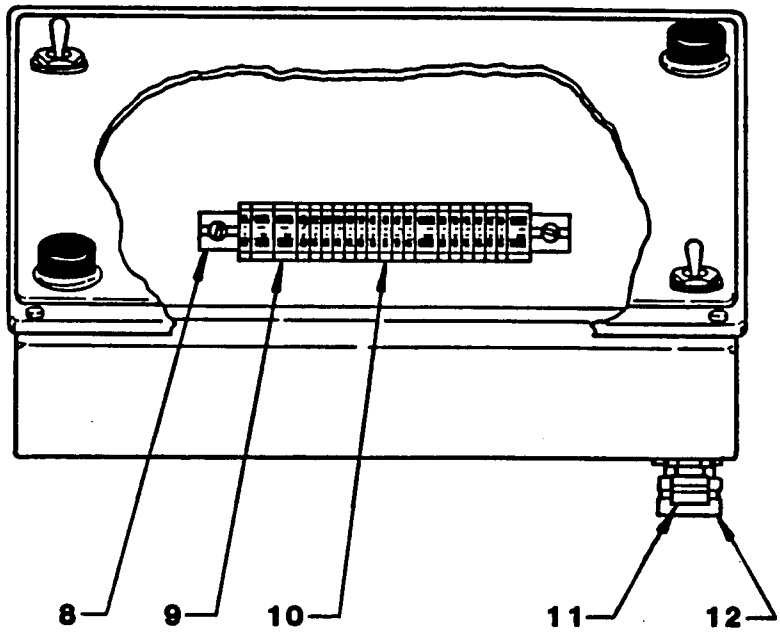
TITLE	CONTROL CONSOLE (FULL HYDRAULIC)		
SIMON AERIALS INC. REV. 09/07/90		PART NO.	PLATE NO. C08.08

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	





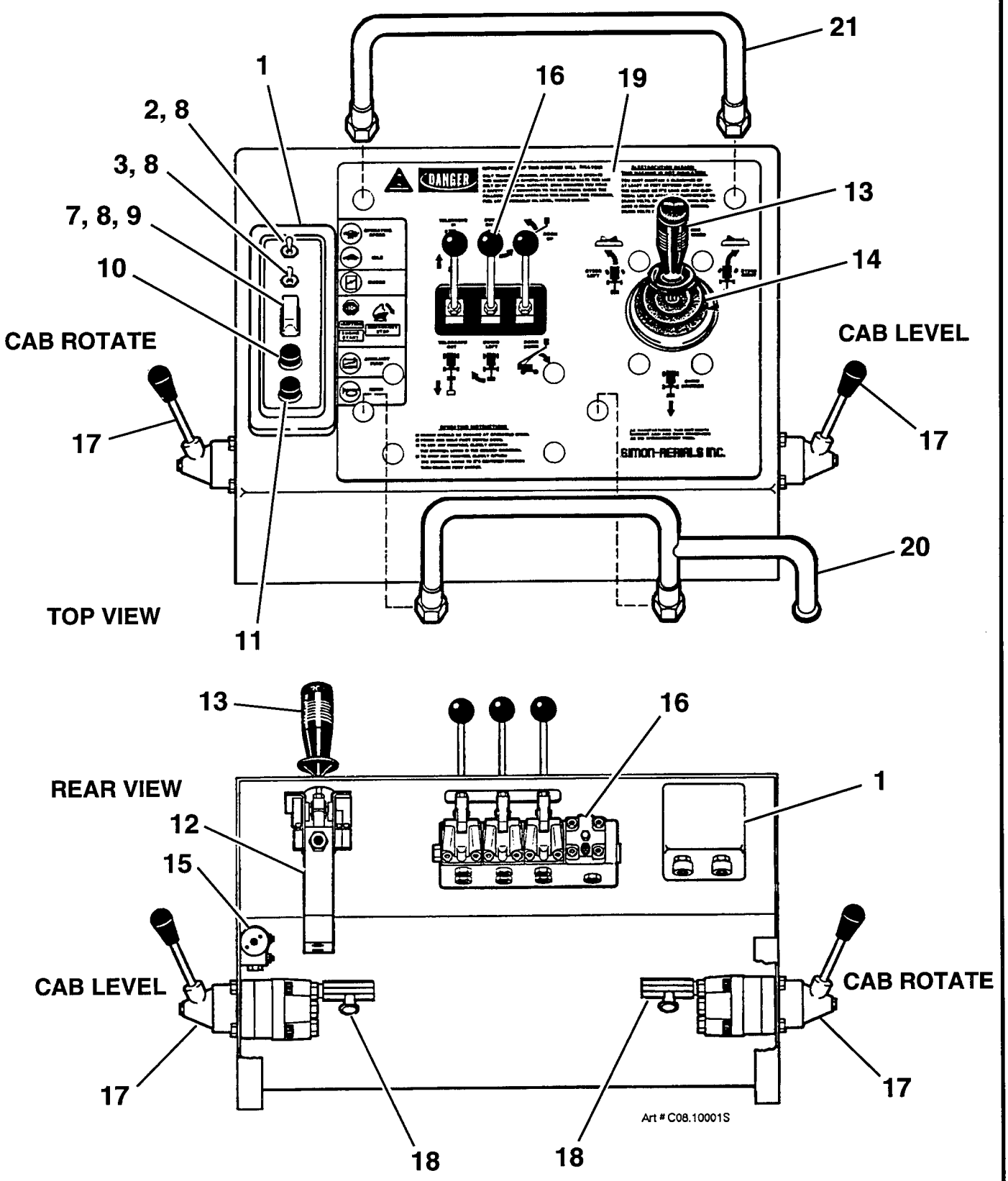
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DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	211 0650		BOX, PLATFORM ELECTRICAL CONTROL	1
2	03-020400		SWITCH, TOGGLE (Engine throttle) (2 position, maintained contact, single pole, single throw)	1
3	03-020500		SWITCH, TOGGLE (Choke) (3 position, intermittent contact, single pole, double throw)	1
4	03-402500		SWITCH, PUSHBUTTON (optional Choke Button) (not shown)	1
5	03-402600		BEZEL, SWITCH (for optional Choke Button)	1
6	03-402800		BUTTON (Blue, for optional Choke Button)	1
7	03-032600		SWITCH, TOGGLE (Engine ignition) (3 position)	1
8	03-497900		SEAL, PANEL	3
9	03-060800		GUARD, SWITCH	1
10	03-020300		SWITCH, PUSHBUTTON (with black cap. Red cap can be supplied for this application. Please indicate on order.)	1
11	03-020300		SWITCH, PUSHBUTTON (with black cap)	1
12	See index . .	D18.02	VALVE, DRIVE CONTROL	1
13	See index . .	E01.07	HANDLE ASSEMBLY, DRIVE CONTROL	1
14	03-402206		BOOT, DRIVE CONTROL HANDLE	1
15	01-034400		VALVE, 2-WAY SOLENOID	1
16	01-061700	C02.30	VALVE BANK ASSEMBLY (Lift, Swing, Telescope) Standard type (**not for use** with water-glycol hydraulic fluid)	1
	01-099500	C02.31	VALVE BANK ASSEMBLY (Lift, Swing, Telescope) Optional type (**can be** used with water-glycol hydraulic fluid)	1
17	See index . .	D14.03	VALVE, 4-WAY MANUAL (Platform level or rotate)	2
18	01-018900		VALVE, FLOW CONTROL (#6 SAE ports)	2
19			DECAL, CONTROL CONSOLE	1
	10-084800		for MP Series	
	10-065300		for MPN Series	
20	211 4320		GRAB BAR (lower)	1
21	211 4310		GRAB BAR (upper)	1
22	03-463700		SWITCH, TOGGLE (for optional 2-Speed Drive) (3 position) (not shown)	1
23	10-091300		DECAL, TWO-SPEED DRIVE (option) (not shown)	1
24	03-022900		LIGHT, PILOT (12 Volt DC) (option) (not shown)	1
25	211 2260		COVER, PLATFORM CONTROLS (option) (not shown)	1

TITLE	CONTROL CONSOLE ASSEMBLY (FULL HYDRAULIC)			
PLATE NO.	C08.10	**SIMON AERIALS INC.**	REV. 06 JUN., 1995	**PART NO.**

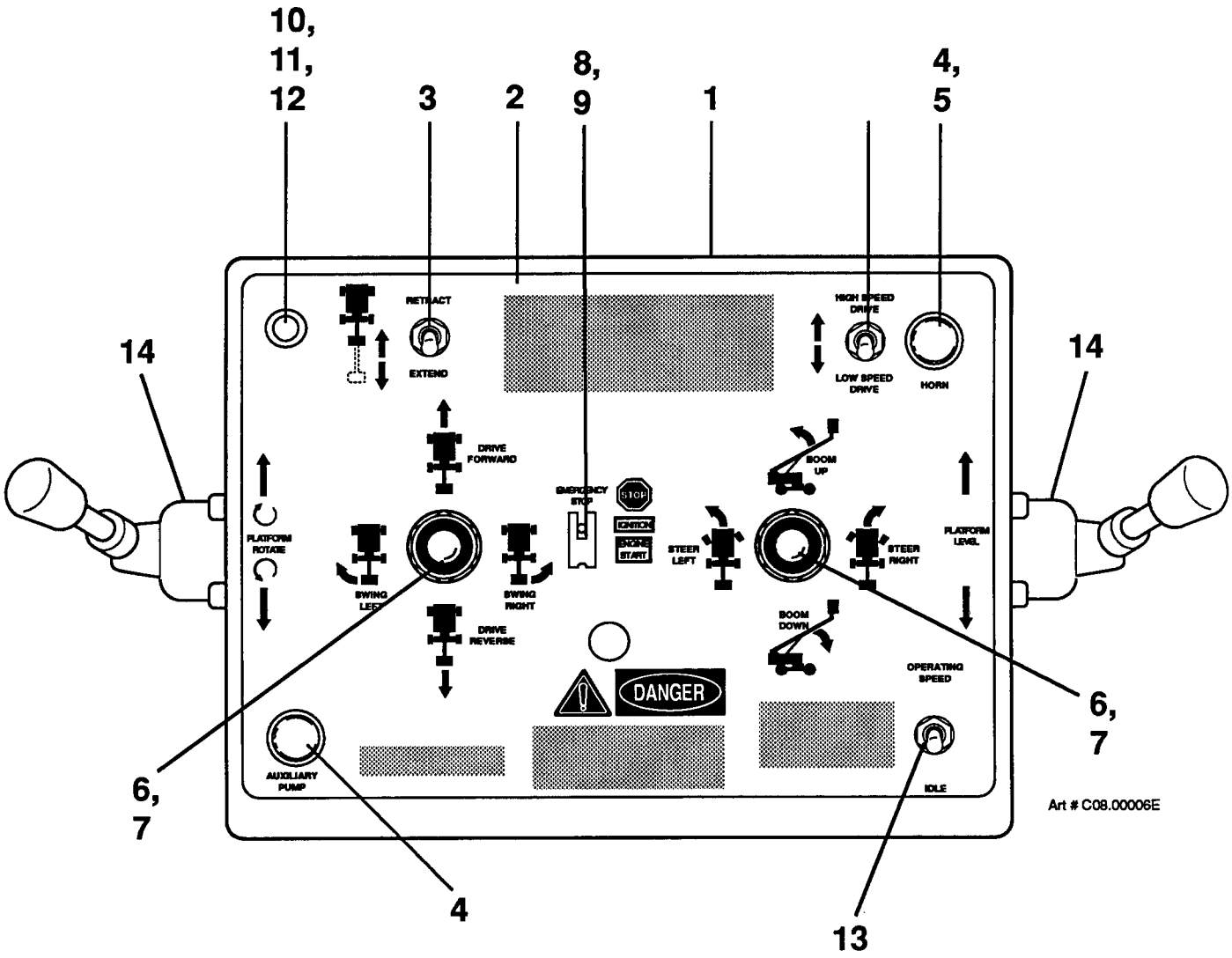


TITLE	CONTROL CONSOLE ASSEMBLY (FULL HYDRAULIC)		
SIMON AERIALS INC.	REV. 06 JUN., 1995	PART NO.	PLATE NO. C08.10

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2105560		ENCLOSURE, ELECTRICAL CONTROL	1
2	10-117100		DECAL	1
3	03-020500		SWITCH, TOGGLE (3 Position Momentary)	1
4	03-020300		SWITCH, PUSH BUTTON	2
5	03-020302		CAP, RED	1
6	03-021800	F01.03	HANDLE, JOY STICK	2
7	03-025300		CONTACT BLOCK (1 Normally Open/ 1 Normally Closed)	4
8	03-032600		SWITCH, TOGGLE (3 Position, Start)	1
9	03-060800		COVER, TOGGLE SWITCH	1
10	03-402500		SWITCH, CHOKE	1
11	03-402600		BEZEL	1
12	03-402900		BUTTON, GREEN	1
13	03-020400		SWITCH, TOGGLE (2 Position, ON-OFF)	2
14		D14.--	VALVE, MANUAL 4-WAY (Rotate, Level)	2
			The following items are not shown on the illustrataion but are inside the control console enclosure or attaching hardware.	
15	03-036600		RAIL	1
16	03-036400		TERMINAL BLOCK	AR
17	03-036700		PLATE, END	1
18	03-063200		CORD GRIP (3/4")	2
19	03-055600		NUT, CONDUIT (3/4")	2
20	03-041000		CORD GRIP (1/2")	1
21	03-055500		NUT, CONDUIT (1/2")	1
22	03-091200		TERMINAL, SPADE (#14-16 AWG, #6 Stud)	12
23	03-091300		TERMINAL, SPADE (#14-16 AWG, #10 Stud)	4
24	03-097200		TERMINAL, QUICK SLIDE (1/4")	2
25	03-064000		TIE, CABLE (6-3/4")	15
26	03-064100		MOUNTING, CABLE TIE	4
27	03-087500		WIRE, BLUE (16 AWG)	38 FT
28	03-087800		WIRE, RED (16 AWG)	11 FT
29	07-011344		SCREW, PHILLIPS HEAD MACHINE (#8-32 x 3/4")	2
30	07-050009		NUT, HEX LOCK (#8-32)	2
31	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1)	4
32	07-062016		WASHER, FLAT (3/8")	4
33	07-050016		NUT, HEX LOCK (3/8"-16)	4

TITLE	PLATFORM CONTROL CONSOLE, HYDRAPORT			
PLATE NO.	C08.15	SIMON AERIALS INC.	REV. 03/28/91	PART NO.



TITLE	PLATFORM CONTROL CONSOLE, HYDRAPORT		
SIMON AERIALS INC. REV. 03/28/91		PART NO.	PLATE NO. C08.15

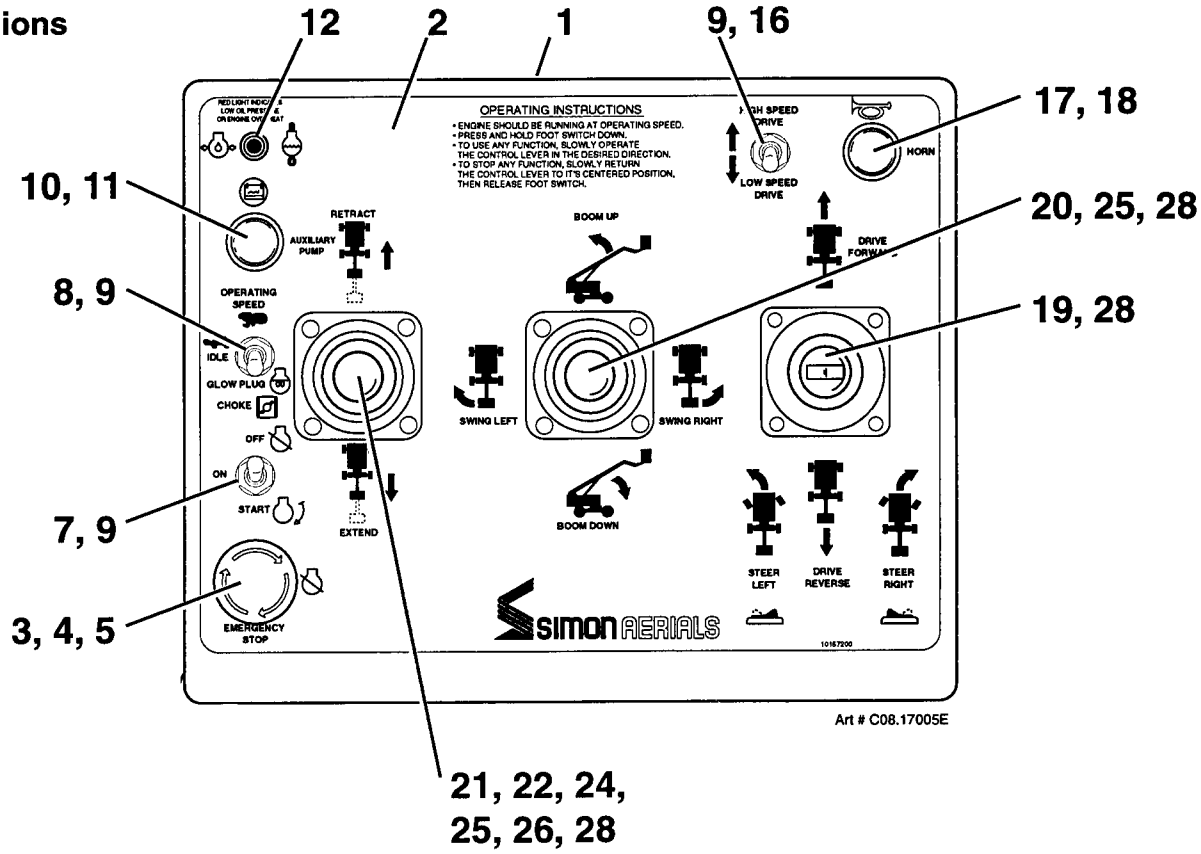
PARTS LIST

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)

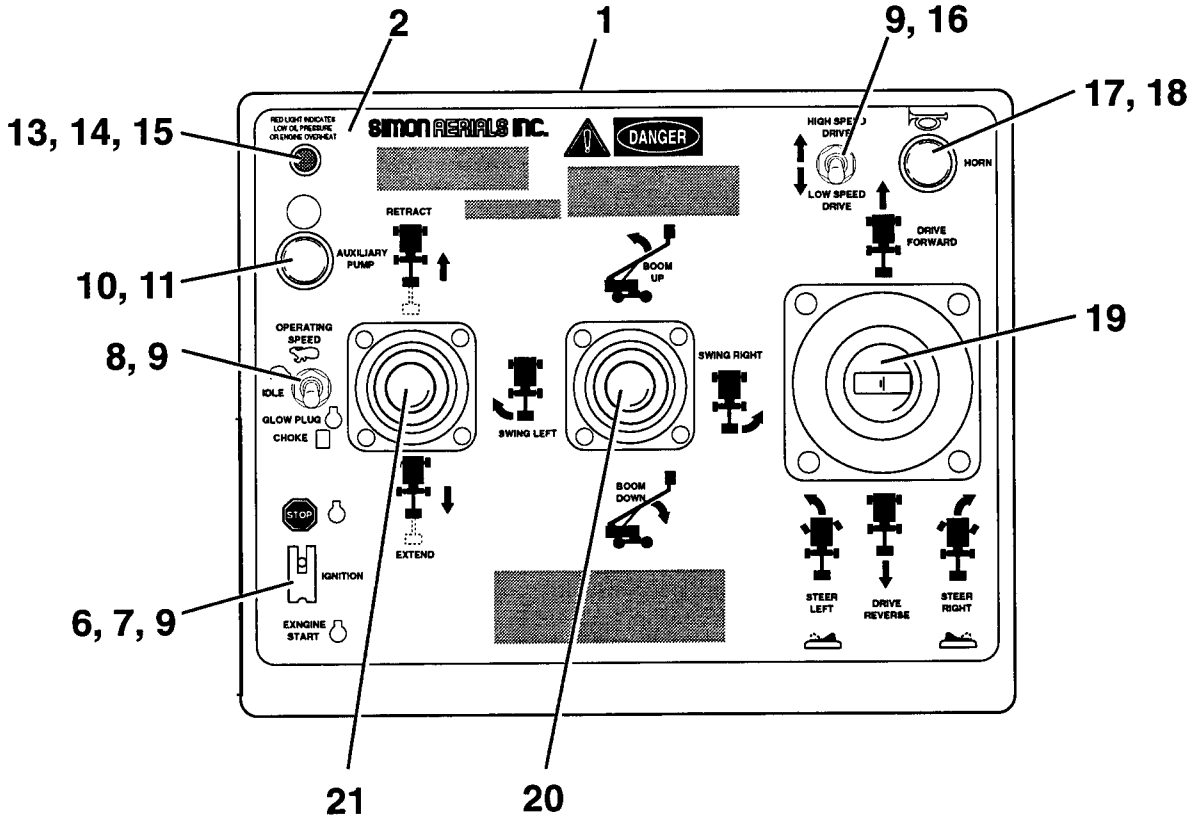
PLATE NO.	SIMON AERIALS INC.	PART NO.
C08.17	NEW 02 DEC., 1994	

Later Versions



Art # C08.17005E

Earlier Versions



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

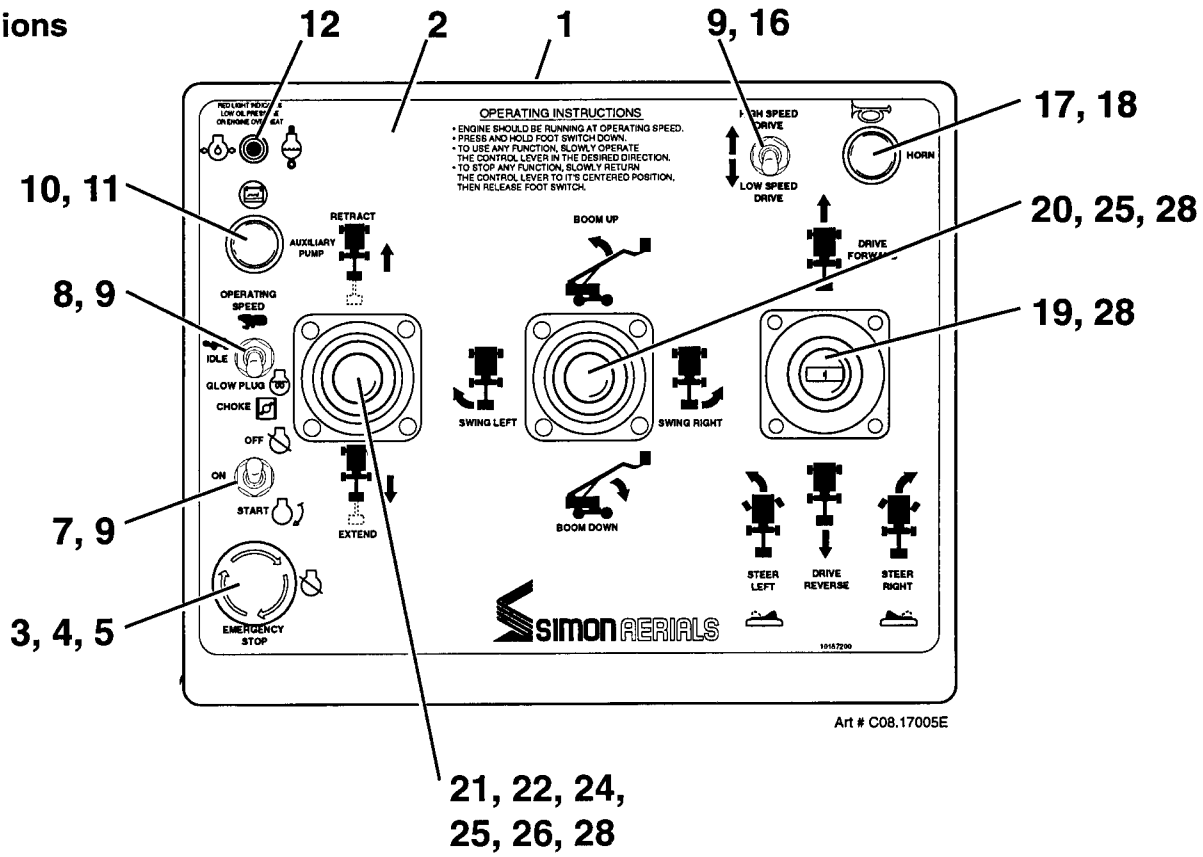
SIMON AERIALS INC.	NEW 02 DEC., 1994	PART NO.	PLATE NO. C08.17

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

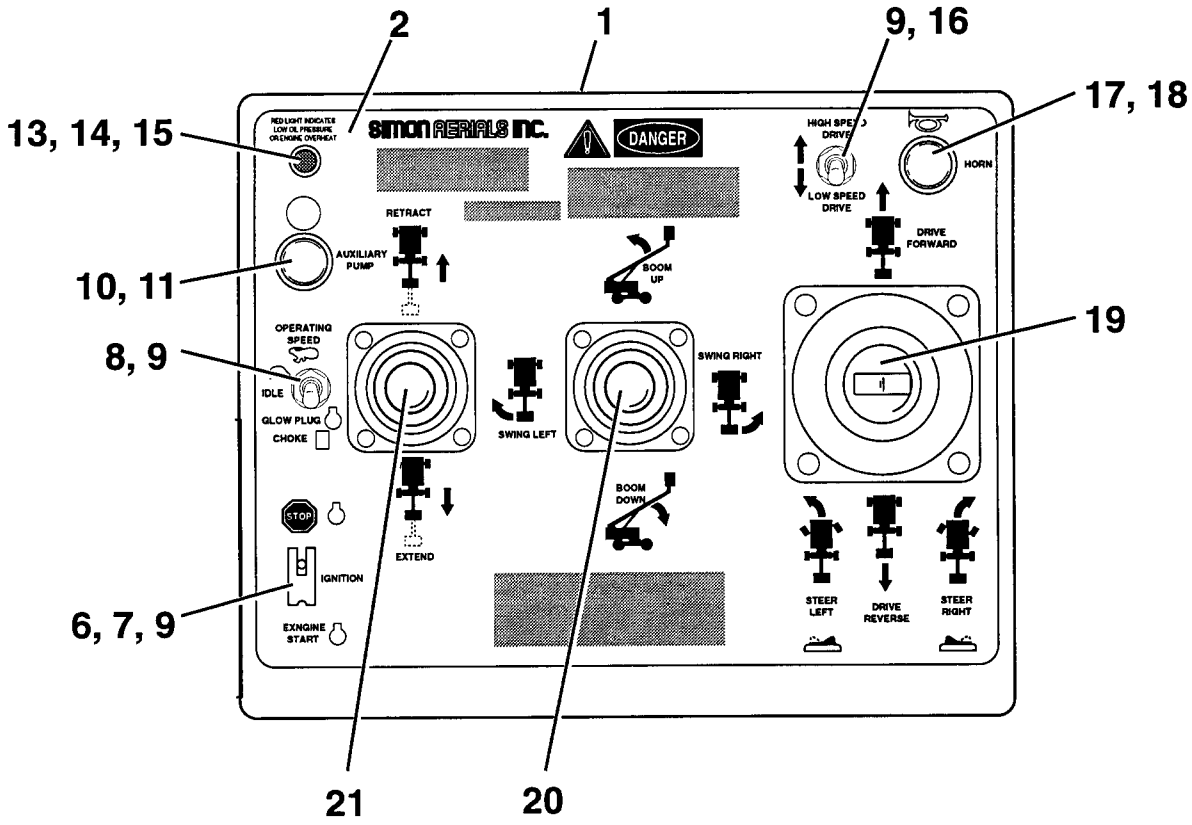
TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (2 OF 4)

Later Versions



Art # C08.17005E

Earlier Versions



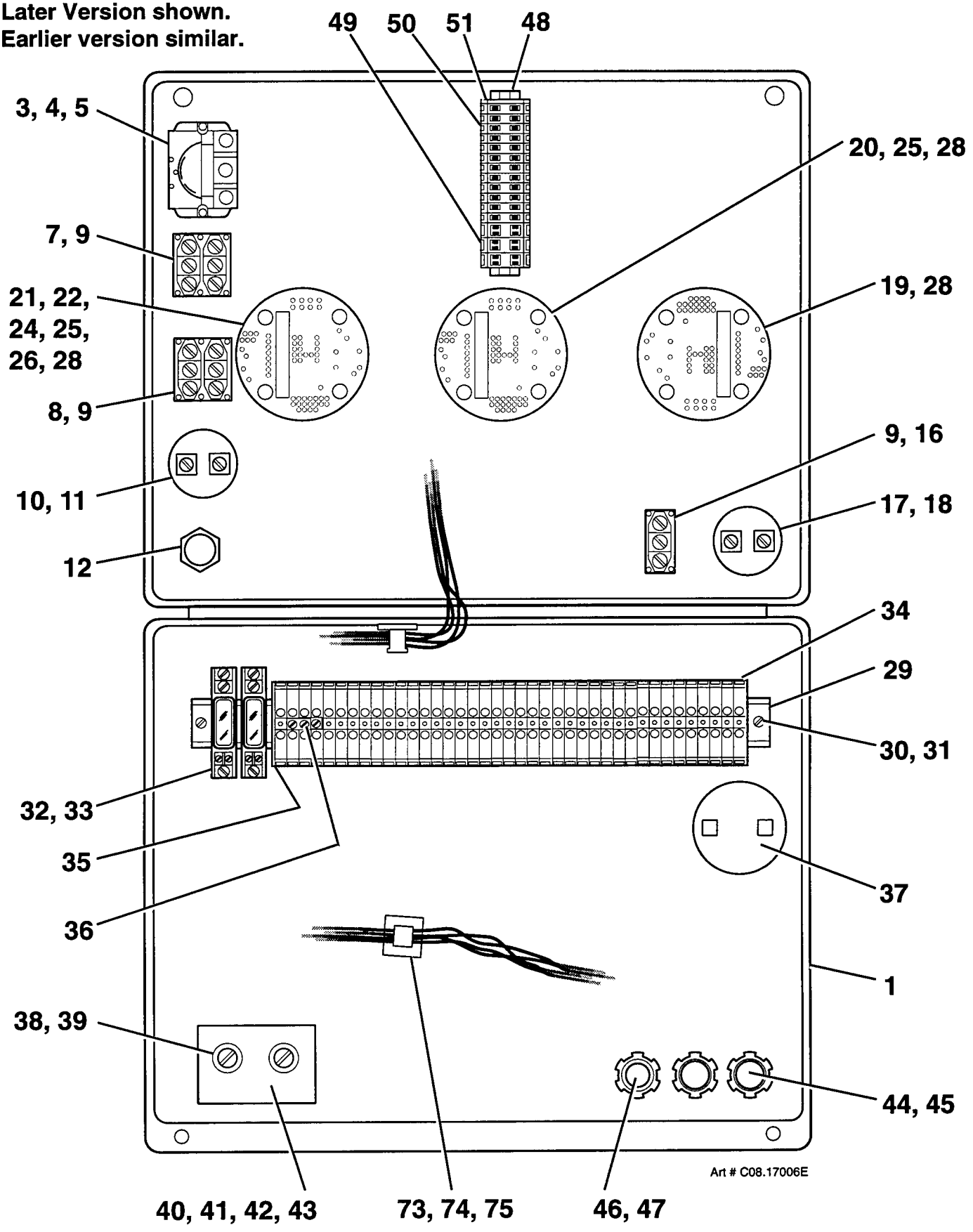
TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (2 OF 4)			
SIMON AERIALS INC.	NEW 02 DEC., 1994	PART NO.	PLATE NO. C08.17

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)

Later Version shown.
Earlier version similar.



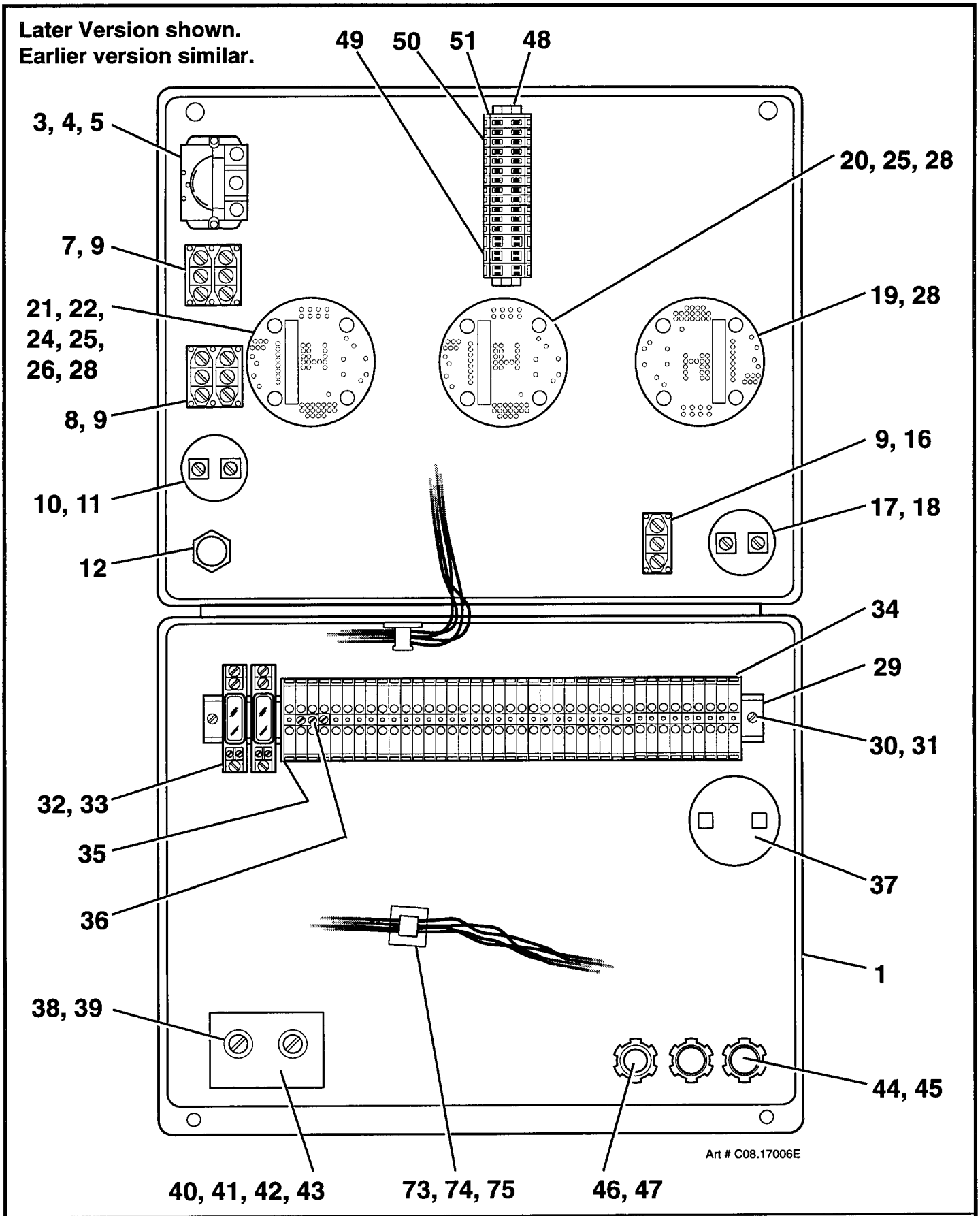
TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (3 OF 4)

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)



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

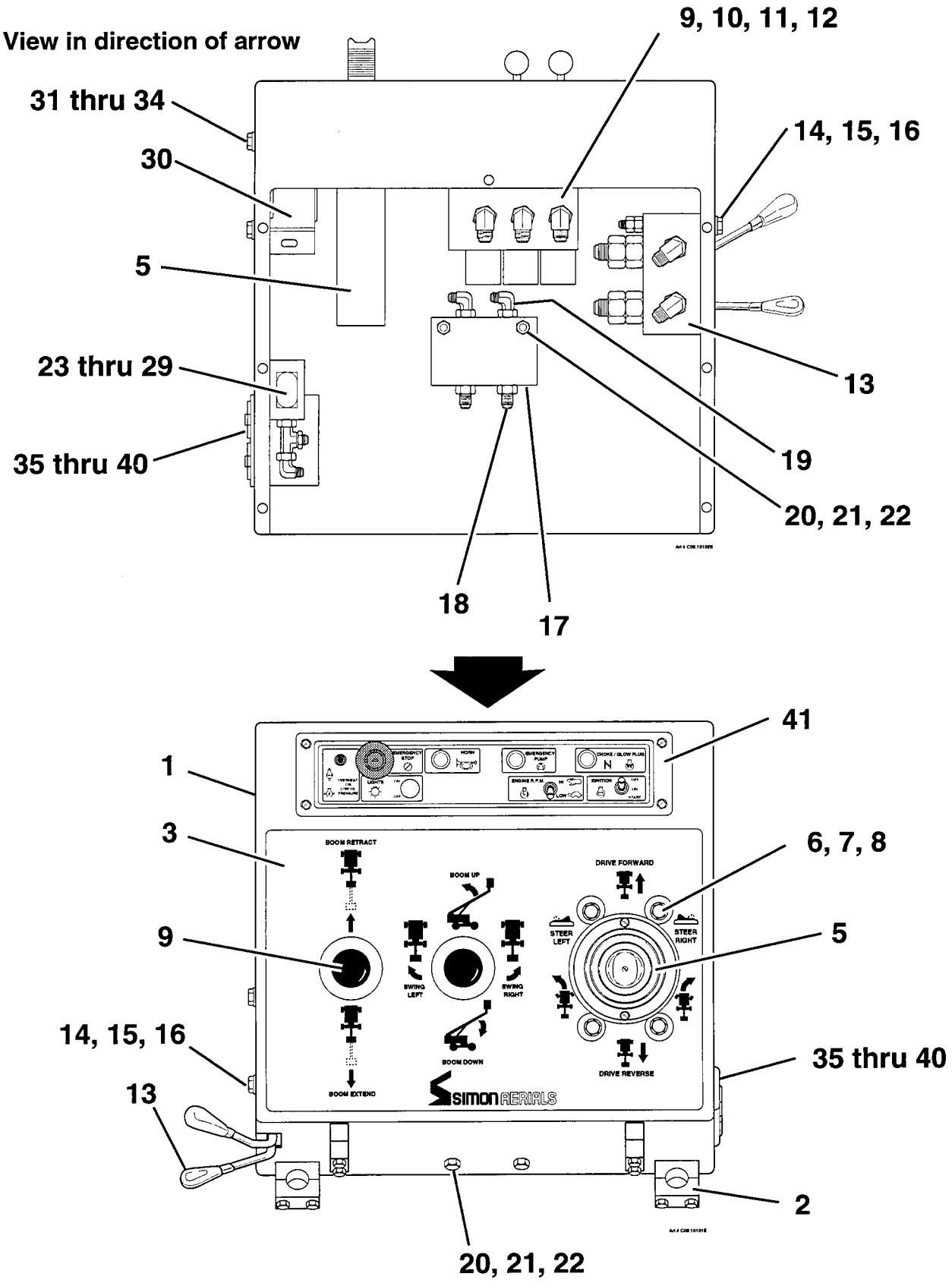
SIMON AERIALS INC. NEW 02 DEC., 1994	PART NO.	PLATE NO. C08.17

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			PLATFORM CONSOLE ASSEMBLY	1
	353 7020		MP's with Full Hydraulic operating system	
	354 4090		Special MP 70 application	
1	219 5570		CONSOLE WELDMENT, PLATFORM	1
2	10-069600		CLAMP, TUBE (1-1/4" O.D.)	4
3			PLACARD, PLATFORM CONTROL	1
	10-145000		Standard (Lexan, as shown. Included in above ass'ys.)	
	10-241100		Optional (Stencil-cut aluminum)	
4	10-241400		SPACER (needed with aluminum control placard)	6
5	See Plate . .	D18.02	VALVE, DRIVE CONTROL	1
6	07-003022		CAP SCREW, HEX HEAD (5/16"-18 x 5/8", Grade 5)	4
7	07-062015		WASHER, FLAT (5/16")	8
8	07-050015		NUT, LOCK (5/16"-18, Grade 5)	4
9	See Plate . .	C02. - -	VALVE BANK, PLATFORM CONTROL	1
10	07-003450		CAP SCREW, HEX HEAD (5/16"-24 x 3/4", Grade 5)	4
11	07-062015		WASHER, FLAT (5/16")	4
12	07-065015		WASHER, HELICAL LOCK (5/16")	4
13	See Plate . .	D14. - -	VALVE, PLATFORM LEVEL AND ROTATE	1
14	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
15	07-062014		WASHER, FLAT (1/4")	4
16	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
17	01-001900		VALVE, CHECK (Pilot operated)	1
18	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	2
19	06-044400		90° ELBOW, STRAIGHT THREAD (4-6 C50X-S)	2
20	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	2
21	07-062016		WASHER, FLAT (3/8")	4
22	07-050016		NUT, LOCK (3/8"-16, Grade 5)	2
23	01-034400		VALVE, 2 WAY (includes coil)	1
24	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	1
25	06-048500		RUN TEE, MALE "O"-RING (6 R50X-S)	1
26	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	2
27	07-003008		CAP SCREW, HEX HEAD (1/4"-20 x 1-3/4", Grade 5)	2
28	07-062014		WASHER, FLAT (1/4")	4
29	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2

TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 1 OF 4)

PLATE NO. C08.21	SIMON AERIALS INC. REV. 15 SEP., 1995	PART NO.



TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 1 OF 4)

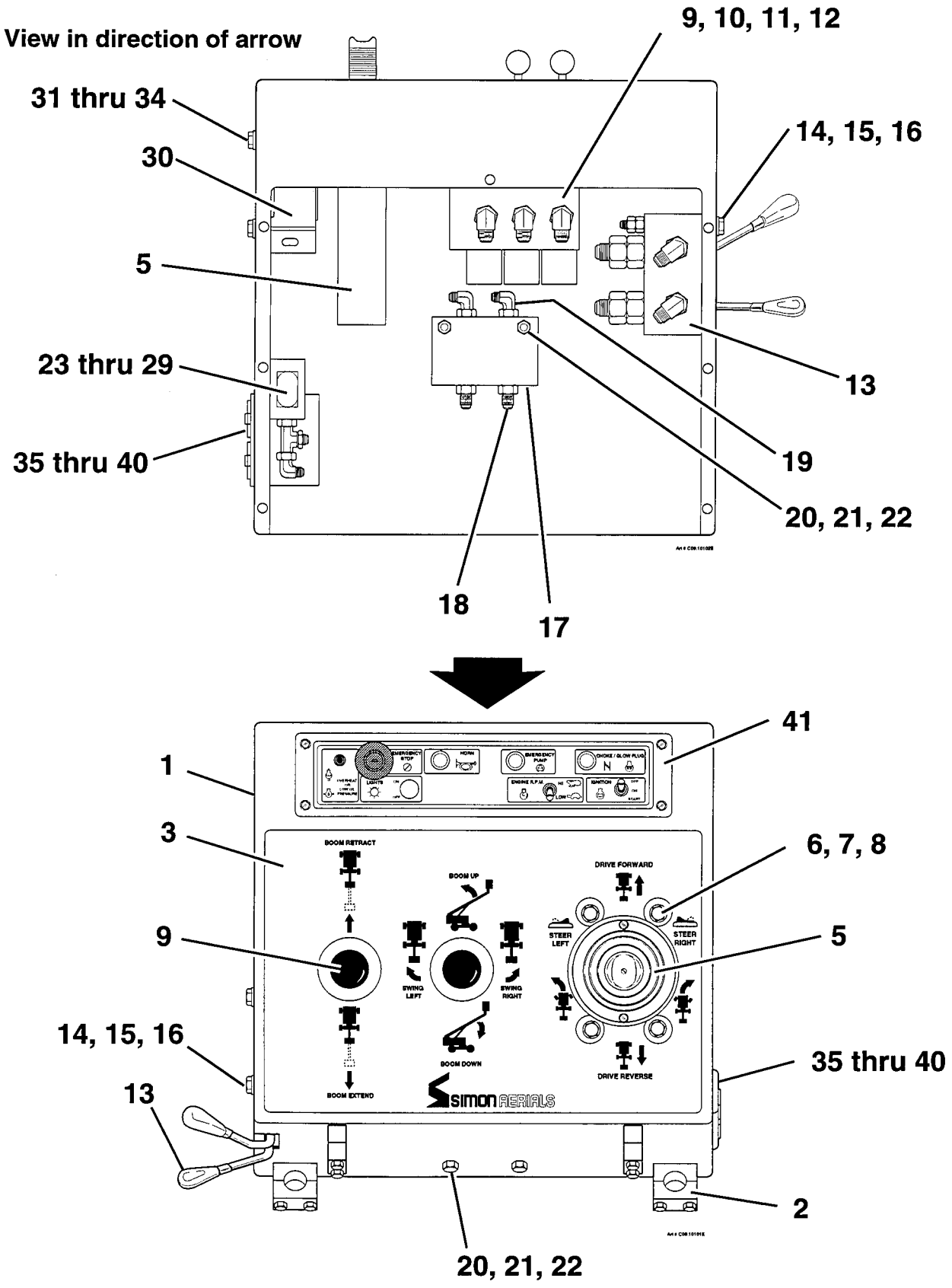
SIMON AERIALS INC. REV. 15 SEP., 1995	PART NO.	PLATE NO. C08.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
30			ALARM, TILT	1
	03-501800		Dual tone (current style)	
	03-464600		Earlier version, prior to 1/1/94 (**Obsolete**, use 03-501800)	
31	234 6890		BRACKET, TILT ALARM	1
32	07-003004		CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5)	2
33	07-062014		WASHER, FLAT (1/4")	2
34	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
35	03-062100		BOX, DUPLEX OUTLET (Weatherproof)	1
36	03-067000		OUTLET, DUPLEX (20 Amp, 110 Volt AC)	1
37	03-062200		COVER, DUPLEX OUTLET (Weatherproof)	1
38	07-011334		MACHINE SCREW, ROUND HEAD (#6-32 x 3/4", Grade 5)	4
39	07-062007		WASHER, FLAT (#6)	4
40	03-042000		CONNECTOR, CABLE (2 screw, 3/8")	1

TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 2 OF 4)

PLATE NO.		PART NO.
C08.21	**SIMON AERIALS INC.** REV. 15 SEP., 1995	



TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 2 OF 4)

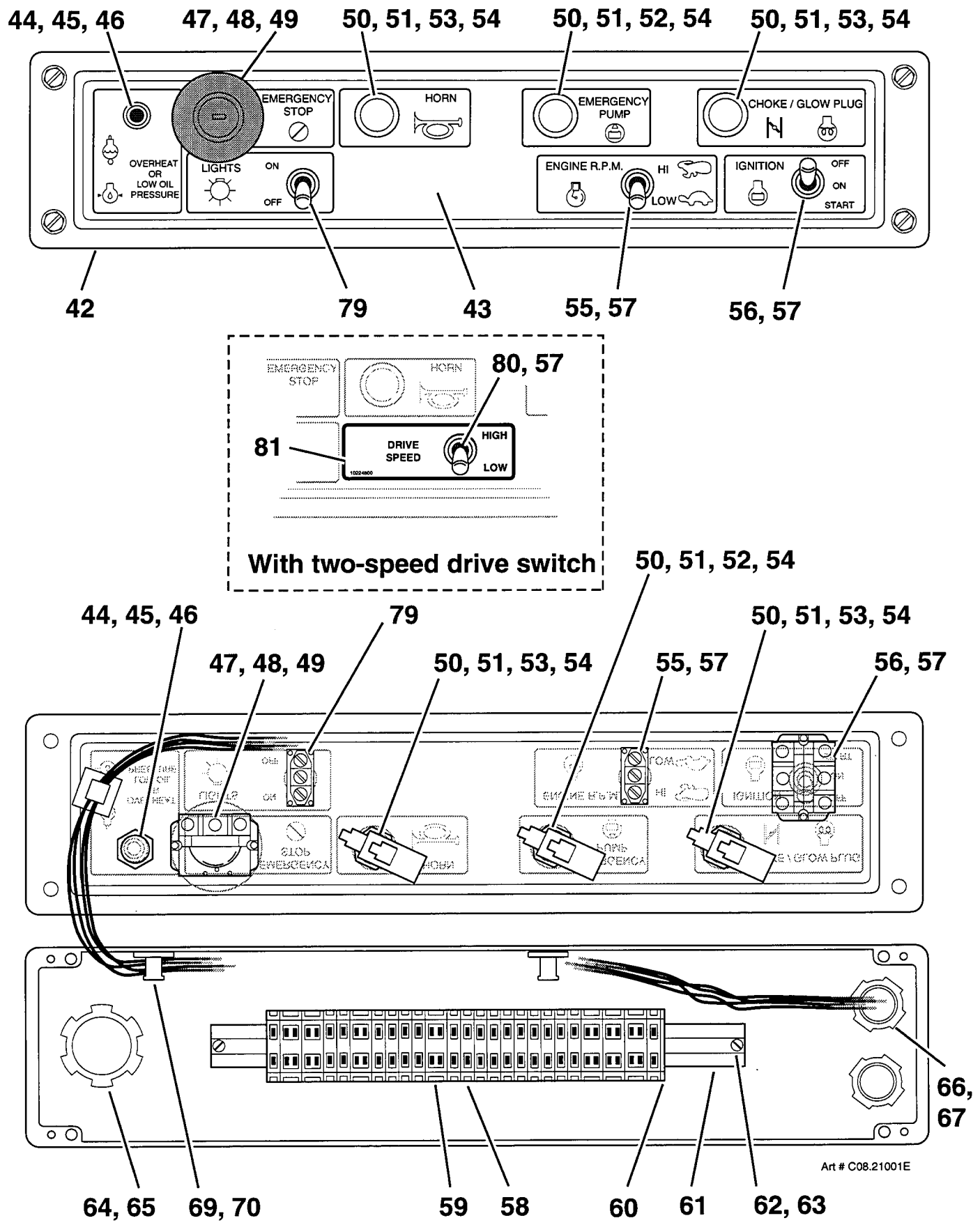
SIMON AERIALS INC. REV. 15 SEP., 1995	PART NO.	PLATE NO. C08.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
41			BOX ASSEMBLY, PLATFORM ELECTRICAL	1
	352 9460		Type 1 (Emergency Stop area is **red with white lettering**)	
			Type 2 (Emergency Stop area is **yellow with red lettering**)	
	353 7250		MP Series	
	354 4190		Special MP 70 application	
42			BOX, ELECTRICAL (Includes cover and screws)	1
	03-436400		Undrilled	
			Drilled, for use with decal having Emergency Stop . . .	
	219 9360		with **red** background (**Type 1**)	
			with **yellow** background (**Type 2**),	
	232 3810		for MP Series	
	235 2000		for special MP 70 application	
43			DECAL, PLATFORM ELECTRICAL BOX	1
			Area surrounding Emergency Stop button has . . .	
	10-145900		**red** background (**Type 1**).	
	10-222300		**yellow** background (**Type 2**).	
44			DIODE, BLINKING (Red L.E.D.) (Engine warning)	1
			for use with decal having having Emergency Stop . . .	
	03-481200		with **red** background (**Type 1**).	
	03-706400		with **yellow** background (**Type 2**).	
45	03-481300		HOLDER, DIODE (used only with "**Type 1**" diode)	1
46	03-481100		RESISTOR (470 Ohm) (used only with "**Type 1**" diode)	1
47			BUTTON, EMERGENCY STOP	1
	03-496000		Red and silver, "pull to release" type (Earlier style)	
	03-702000		Red, "pull to release" type (Later style)	
48	03-454900		BASE, CONTACT BLOCK	1
49			BLOCK, CONTACT (Normally closed)	1
	03-496300		Used with Button 10-496000 (Red and silver)	
	03-437300		Used with Button 10-702000 (Red)	
50	03-402500		SWITCH (10 Amp, 250 Volt AC)	A.R.
51	03-402600		SEAL, SWITCH BEZEL	A.R.
52	03-402700		BUTTON, SWITCH (Red) (Emergency Pump) **or . . .**	1
	03-402800		BUTTON, SWITCH (Blue) (Emergency Pump)	1
53	03-402800		BUTTON, SWITCH (Blue) (Horn) (Choke/ Glow Plug)	A.R.
54	10-151000		CAP (Black vinyl, 3/4" dia. x 1/2" long) (option)	A.R.
55	03-020400		SWITCH, TOGGLE (Engine throttle) (2 position,	
			maintained contact, single pole, single throw)	1
56	03-032600		SWITCH, TOGGLE (Engine start)	
			(3 position, 2 maintained and 1 momentary contact,	
			double pole, double throw)	1
57	03-506200		SEAL, TOGGLE SWITCH (option)	A.R.

TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 3 OF 4)

PLATE NO. C08.21	**SIMON AERIALS INC.** REV. 15 SEP., 1995	PART NO.



TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 3 OF 4)

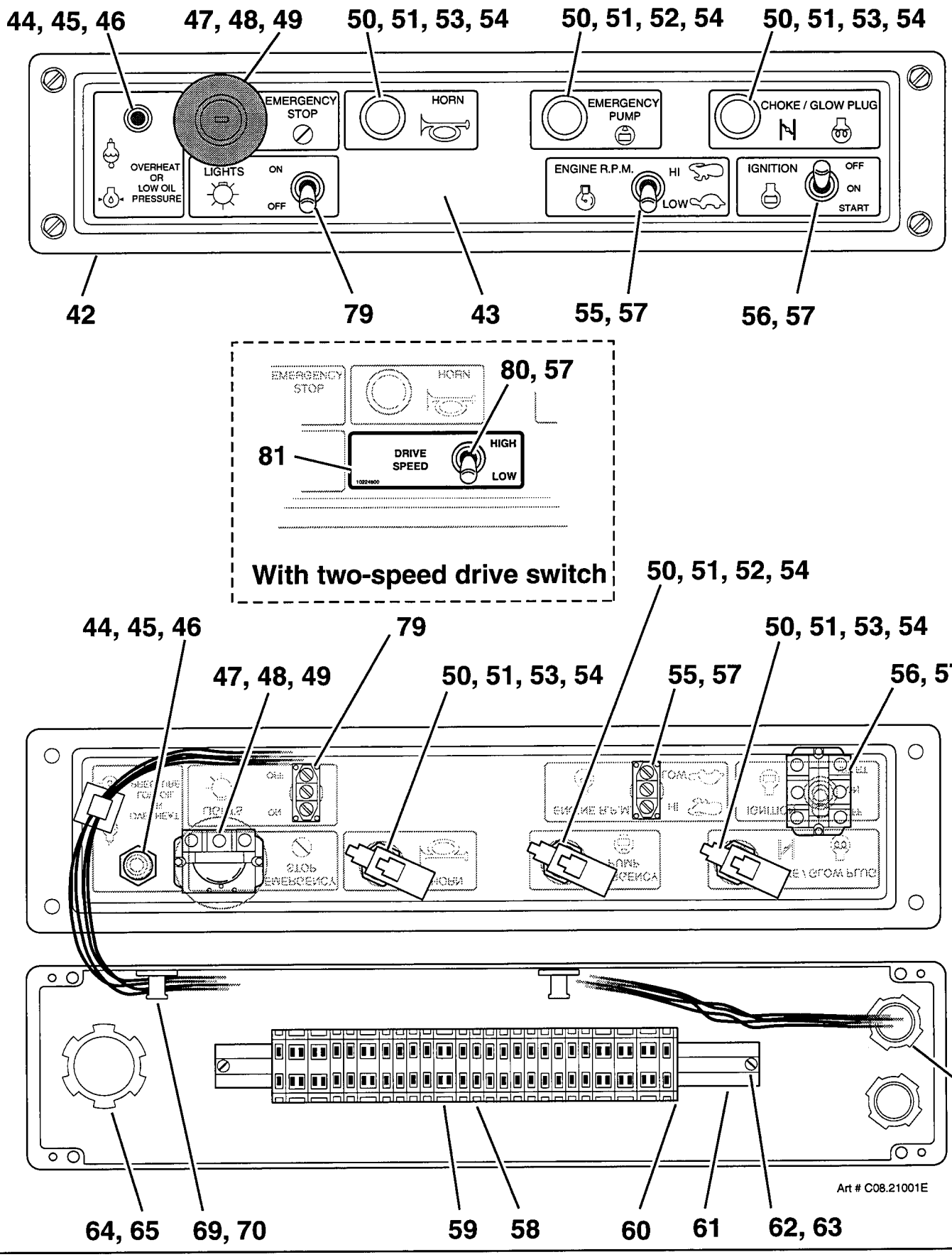
SIMON AERIALS INC. REV. 15 SEP., 1995	PART NO.	PLATE NO. C08.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			BOX ASSEMBLY, PLATFORM ELECTRICAL (continued)	
58	03-036400		BLOCK, TERMINAL (2 conductor, #16-#24 ga. wire)	A.R.
59	03-036500		BLOCK, TERMINAL (4 conductor, #16-#24 ga. wire)	A.R.
60	03-036700		PLATE, TERMINAL BLOCK END	1
61	03-036600		RAIL, TERMINAL (1 M [39.37"] long section) (9" [229 mm] long piece needed for this application)	1
62			MACHINE SCREW,	2
	07-011334		ROUND HEAD (#6-32 x 3/4", Grade 2) **or . . .**	
	07-011344		PAN HEAD (#8-32 x 3/4", Grade 2)	
63	07-050007		NUT, STOP (#6-32, Grade 5) **or . . .**	2
	07-050009		NUT, STOP (#8-32, Grade 5)	2
64	03-063200		GRIP, CORD (3/4", sealing)	1
65	03-055600		NUT, CONDUIT LOCK (3/4")	1
66	03-041700		GRIP, CORD (3/8", with .31" to .38" seal) **or . . .**	2
	03-045500		GRIP, CORD (1/2", with .38" to .50" seal)	2
67	03-055700		NUT, CONDUIT LOCK (3/8") **or . . .**	2
	03-055500		NUT, CONDUIT LOCK (1/2")	2
68	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	2
69	03-064000		TIE, CABLE (6-3/4" [171 mm] long)	20
70	03-064100		MOUNT, CABLE TIE (Adhesive backed)	5
71	03-091200		TERMINAL, SPADE (locking, #6 stud, #14-#16 AWG)	9
72	03-092200		COUPLING, MALE (insulated, #14-#16 AWG)	A.R.
73	03-092300		COUPLING, FEMALE (insulated, #14-#16 AWG)	A.R.
74	03-099000		TERMINAL, BUTT (Blue, #14-#16 AWG)	A.R.
75	03-497900		PLUG, PLASTIC (1/2" dia., "Panel seal", to fill unused toggle switch holes)	A.R.
76			MACHINE SCREW,	2
	07-013414		ROUND HEAD (#10-32 x 1/2", Grade 2) **or . . .**	
	07-015003		FLAT HEAD (1/4"-20 x 3/4", Grade 5)	
77	07-050111		NUT, STOP (#10-32, Grade 5) (when #10 screw is used)	2
78	07-029365		SCREW, TEK (#12-14 x 1", bonded, sealing head)	2
79	03-020400		SWITCH, TOGGLE (for optional lights) (2 position, maintained contact, single pole, single throw)	1
80	03-020400		SWITCH, TOGGLE (Drive speed) (Option) (2 position, maintained contact, single pole, single throw)	1
81	10-224800		DECAL, "DRIVE SPEED . . ." (for models with optional two-speed drive)	1

TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 4 OF 4)

PLATE NO.		PART NO.
C08.21	**SIMON AERIALS INC.** REV. 15 SEP., 1995	



TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 4 OF 4)

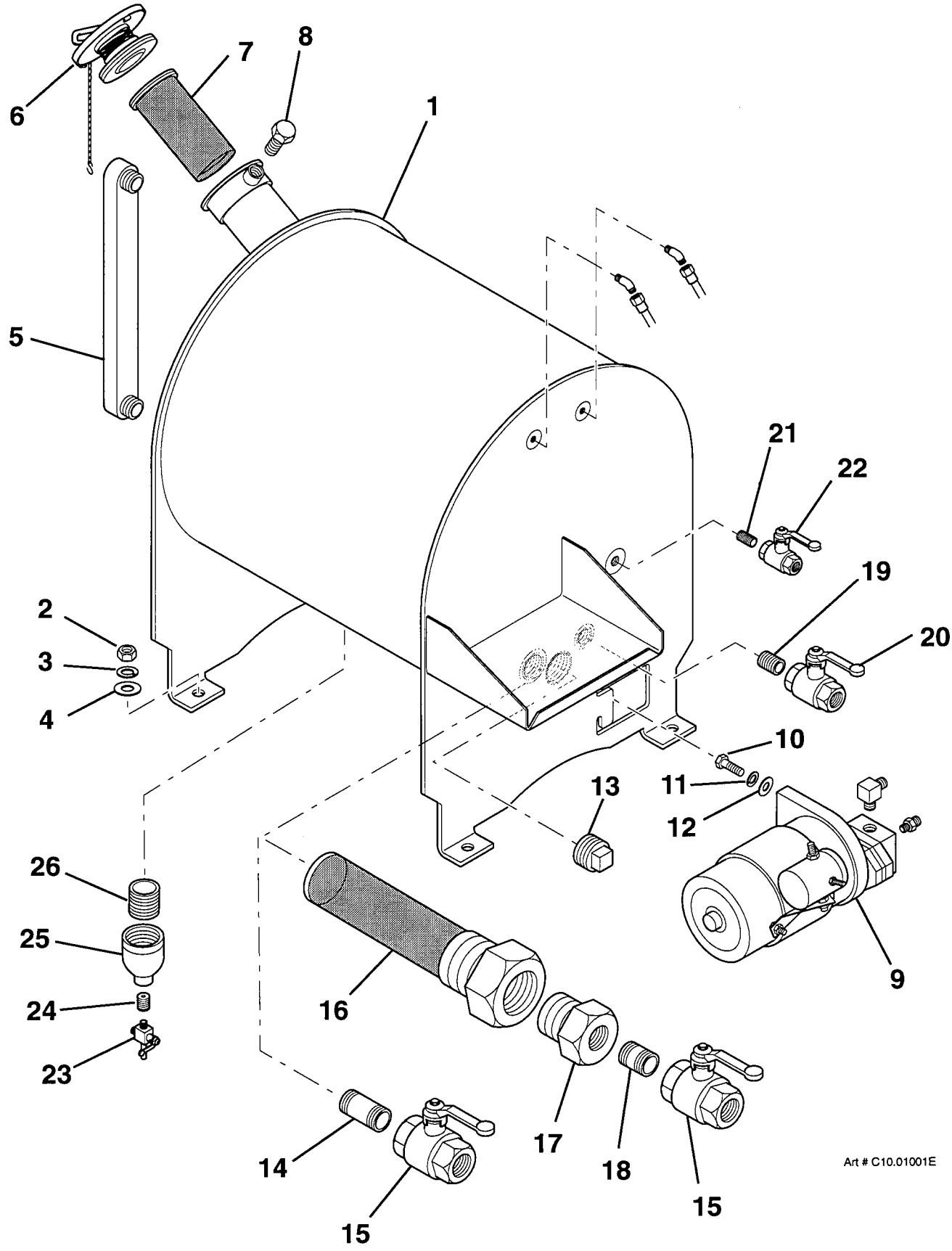
SIMON AERIALS INC.	REV. 15 SEP., 1995	PART NO.	PLATE NO. C08.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			TANK, HYDRAULIC (Capacity 35.3 gallons [133.6 liters])	1
			Standard tank:	
			Tank is 32" (.8 M) high x 24-1/4" (.62 M) long:	
	200 3104		Battery tray measures **7-1/2" x 12-7/8"** (190 x 327 mm).	
			Has **1-1/2" and 2" NPT flanges** under battery tray.	
			Has **no NPT fitting on underside** for drain.	
			Optional tanks:	
			Tank is 32" (.8 M) high x 24-1/4" (.62 M) long:	
	217 7150		Battery tray measures **7-1/2" x 12-7/8"** (190 x 327 mm).	
			Has **(2) 1" and (2) 1-1/2" NPT flanges** under tray.	
			Has **2" NPT fitting on underside** for drain.	
	216 5650		**No battery tray**. Has **(2) 1" and (2) 1-1/2" NPT flanges.**	
			Has **2" NPT fitting on underside** for drain.	
	218 2670		Battery tray measures **8" x 17-3/8"** (203 x 441 mm).	
			Has **4" NPT flange** under tray for optional strainer.	
			Has **2" NPT fitting on underside** for drain.	
			Tank is 25-1/4" (.64 M) high x 24-1/4" (.62 M) long:	
	209 7073		Has **1-1/2" and 2" NPT flanges**. Has **no battery tray**.	
			Has **no NPT fitting on underside** for drain.	
			Tank is 32" (.8 M) high x 18-1/2" (.47 M) long:	
	231 2960		Has **(2) 1-1/2" NPT flanges**. Has **no battery tray**.	
			Has **no NPT fitting on underside** for drain.	
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")	8
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	1
10	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	2
11	07-065016		WASHER, HELICAL LOCK (3/8")	2
12	07-062016		WASHER, FLAT (3/8")	2
13	11-050050		PLUG, SQUARE HEAD (2" NPT) (when 1-1/2" ball valve is used, on tanks without optional suction strainer)	1
	11-075100		PLUG, SQUARE HEAD (1-1/2" NPT) (when 2" ball valve is used, on tanks without optional suction strainer)	1
14	11-075800		NIPPLE, PIPE (1-1/2" NPT, 3" long)	1
	11-020016		NIPPLE, PIPE (2" NPT, 2-1/2" long) (some applications)	1
15	01-063000		VALVE, BALL (Shutoff valve) (1-1/2" NPT)	1
	01-018400		VALVE, BALL (Shutoff valve) (2" NPT) (some applications)	1
16	01-200900		STRAINER, SUCTION (option)	1

TITLE HYDRAULIC TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)

PLATE NO.			PART NO.
C10.01	**SIMON AERIALS INC.**	REV. 08 SEP., 1995	



TITLE HYDRAULIC TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)

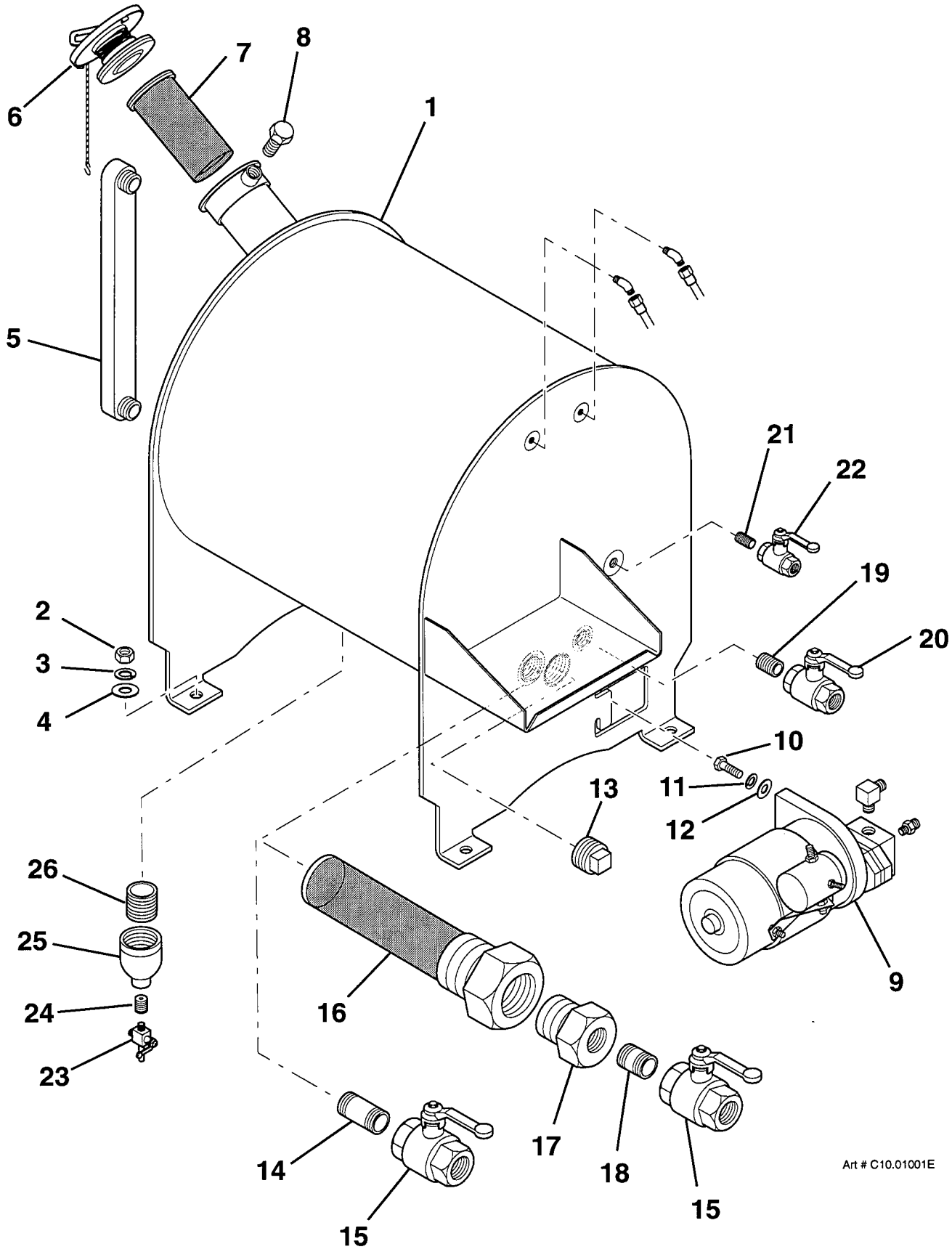
SIMON AERIALS INC. REV. 08 SEP., 1995	PART NO.	PLATE NO. C10.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
17	11-085000		BUSHING, REDUCER (3" to 1-1/2") (with optional strainer)	1
	- - -		BUSHING, REDUCER (3" to 2") (with optional strainer)	1
18	11-071500		CLOSE NIPPLE (1-1/2") (with optional strainer)	1
	11-020017		CLOSE NIPPLE (2") (with optional strainer)	1
19	11-020014		CLOSE NIPPLE, PIPE (1" NPT)	1
20	01-068500		VALVE, BALL (Shutoff valve) (1" NPT)	1
21	11-203200		NIPPLE, PIPE (1/2" x 1-1/8")	1
22	01-002800		VALVE, BALL (Shutoff valve) (1/2" NPT)	1
23	01-015800		DRAIN COCK (Brass, 1/2" NPT) (option)	1
24	11-020019		CLOSE NIPPLE (1/2")	1
25	11-061900		REDUCER, BELL (2" x 1/2")	1
26	11-020017		CLOSE NIPPLE (2")	1
			The following items may be found on a typical installation:	
27	01-226000		FILTER, HIGH PRESSURE (10 micron, #6 SAE ports)	1
28	03-466900		HEATER, TANK (120 Volt AC) (option, not shown)	1
29	06-040500		ADAPTER, "O"-RING TO 37° (10-8 F5OX-S)	1
30	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	1
31	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F5OX-S)	1
32	06-197000		CONNECTOR, HOSE (Beaded) (2" NPT, for 2" hose)	1
33	06-191500		CONNECTOR, HOSE (Beaded) (1-1/2" NPT, 1-1/2" hose)	1
34	06-002000		CONNECTOR, MALE (12-16 FTX-S)	1
35	06-001700		CONNECTOR, MALE (12-8 FTX-S)	1
36	06-001800		CONNECTOR, MALE (12 FTX-S)	1
37	06-079000		CONNECTOR, SWIVEL NUT (6 F65OX-S)	1
38	11-050001		90° ELBOW, FEMALE PIPE (2")	1
39	11-050002		90° ELBOW, FEMALE PIPE (1-1/2")	1
40	11-050023		90° STREET ELBOW (1-1/2")	1
41	06-004100		90° ELBOW, MALE 37° TO NPT (6-8 CTX-S)	1
42	06-003800		90° ELBOW, MALE 37° TO NPT (6 CTX-S)	1
43	06-003500		90° ELBOW, MALE 37° TO NPT (4-4 CTX-S)	1
44	06-045500		90° ELBOW, "O"-RING TO 37° (12-10 C5OX-S)	1
45	06-045100		90° ELBOW, "O"-RING TO 37° (10-8 C5OX-S)	1
46	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	1
47	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C5OX-S)	1
48	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	1
49	06-080500		90° STREET ELBOW (1/2 CD-S)	1
50	11-020017		CLOSE NIPPLE (2")	1
51	11-075300		TEE, FEMALE PIPE THREAD (1-1/2 x 1-1/2 x 3/4)	1
52	06-054800		RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S)	1
53	06-056300		BRANCH TEE, MALE SWIVEL NUT (12 S6X-S)	1
54	06-074900		ADAPTER TEE, PIPE THREAD (1/2 MRO)	1

TITLE HYDRAULIC TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)

PLATE NO.			PART NO.
C10.01	**SIMON AERIALS INC.**	REV. 08 SEP., 1995	



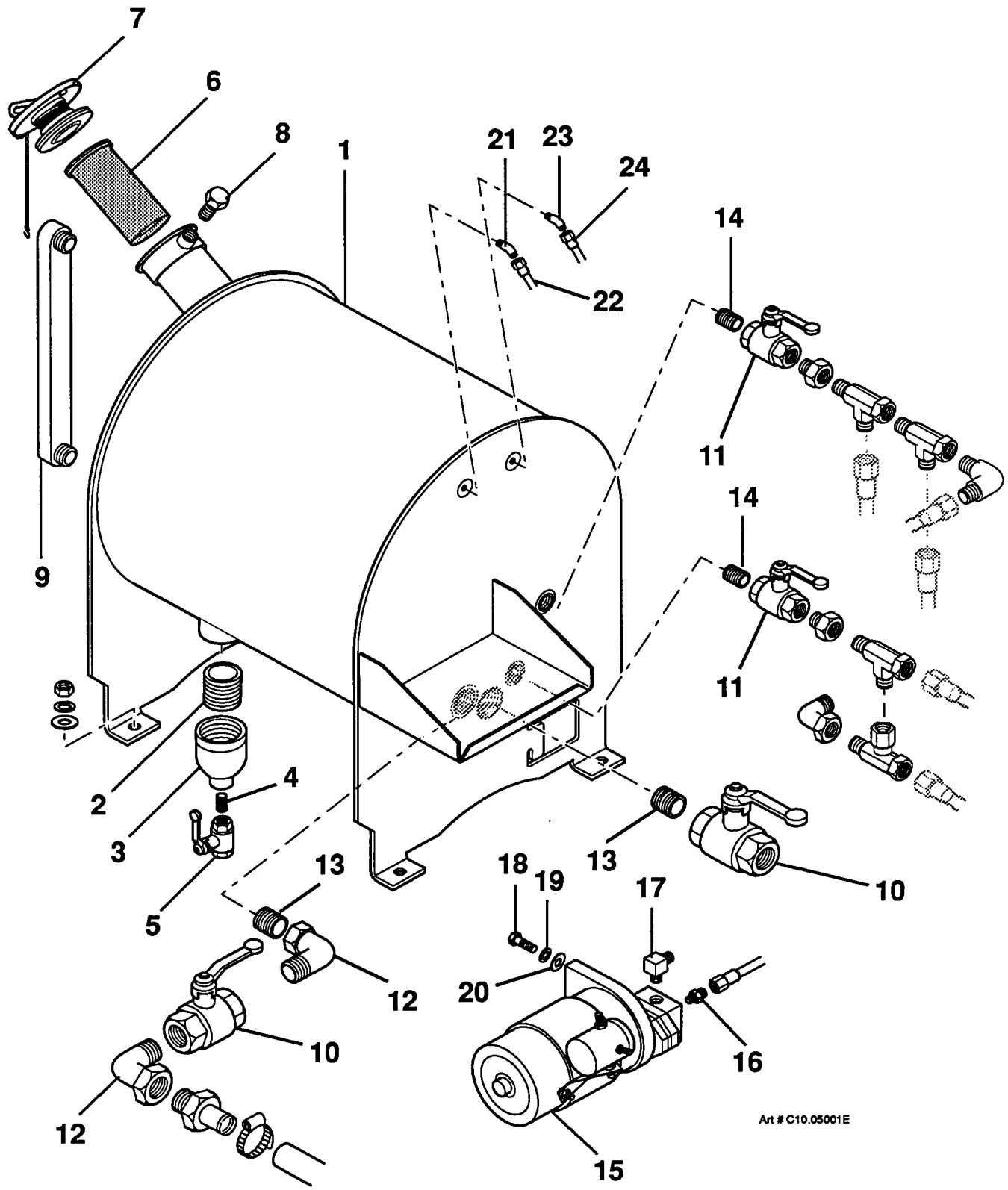
TITLE HYDRAULIC TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)

SIMON AERIALS INC.	REV. 08 SEP., 1995	PART NO.	PLATE NO. C10.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2177150		TANK WELDMENT	1
2	11-020017		NIPPLE, PIPE (2" Close)	1
3	11-061900		REDUCER, BELL PIPE (2" x 1/2")	1
4	11-020019		NIPPLE, PIPE (1/2" Close)	1
5	01-002800		VALVE, BALL (1/2")	1
6	10-001000		STRAINER	1
7	10-002100		CAP, FILLER (4 PSI)	1
8	01-008200		VENT	1
9	01-033800		GAUGE, SIGHT (14")	1
10	01-063000		VALVE, BALL (1-1/2")	2
11	01-068500		VALVE, BALL (1")	2
12	11-050023		ELBOW, 90° STREET (1-1/2")	2
13	11-071500		NIPPLE, PIPE (1-1/2" Close)	2
14	11-020014		NIPPLE, PIPE (1" Close)	2
15	01-027200	D07.04	PUMP, EMERGENCY HYDRAULIC	1
16			CONNECTOR	1
17			ELBOW	1
18	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	2
19	07-065016		WASHER, HELICAL LOCK (3/8")	2
20	07-062016		WASHER, FLAT (3/8")	2
21	06-003500		ELBOW, MALE (4-4 CTX)	1
22			HOSE ASSEMBLY (Main Pump Bearing Relief) (ref.)	1
23	06-044400		ELBOW, STRAIGHT THREAD (4-6 C50X)	1
24			HOSE ASSEMBLY (Master Level Cylinder Relief) (ref.)	1

TITLE	HYDRAULIC TANK ASSEMBLY, MPH60 (PROPANE/AC)			
PLATE NO.	C10.05	**SIMON AERIALS INC.**	REV. 03/29/91	PART NO.



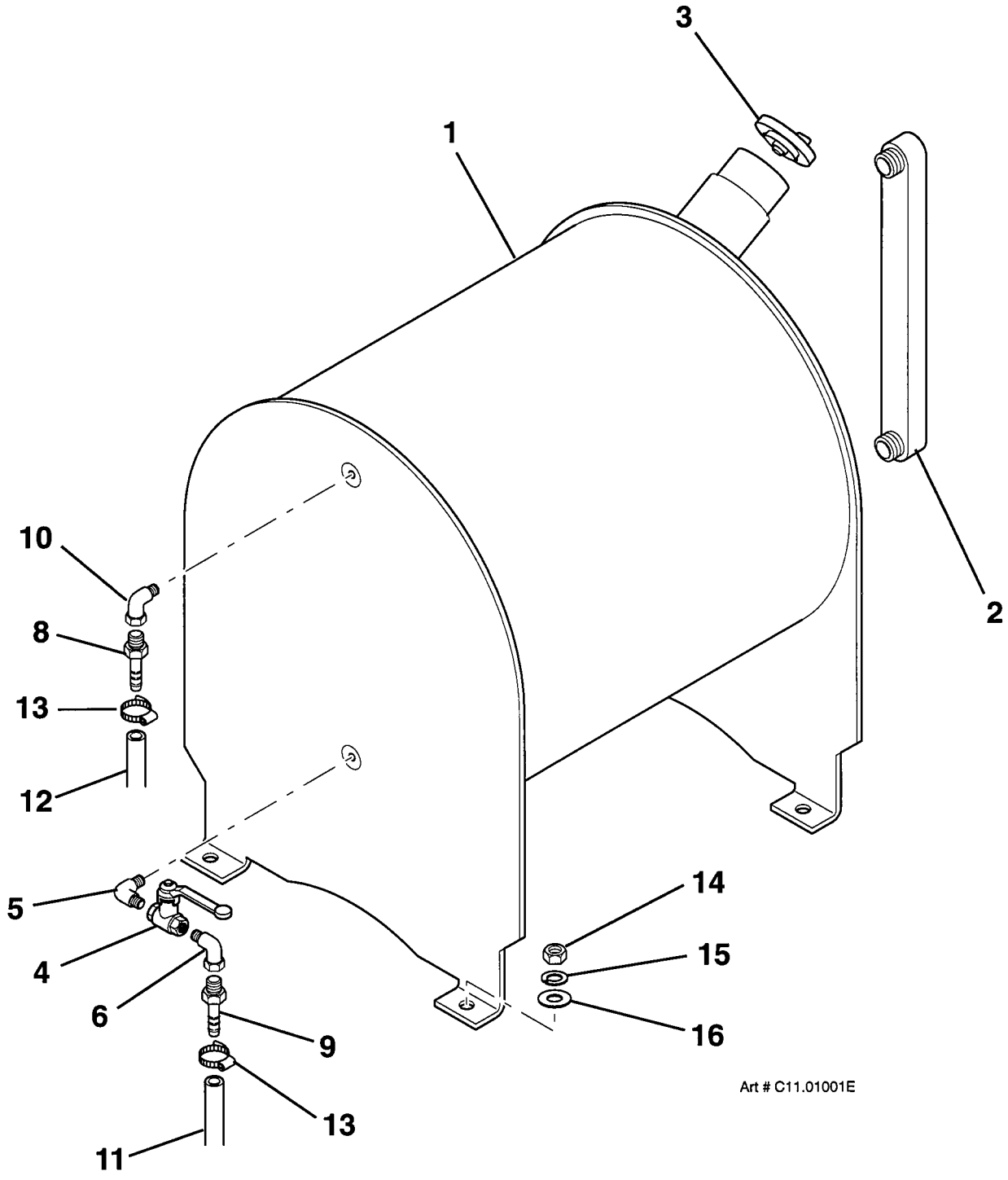
TITLE	HYDRAULIC TANK ASSEMBLY, MPH60 (PROPANE/AC)		
SIMON AERIALS INC.	REV. 03/29/91	PART NO.	PLATE NO. C10.05

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			TANK ASSEMBLY, FUEL	1
	3500763		Standard tank assembly for Gasoline engines	
	3500781		Standard tank assembly for Diesel engines	
1			TANK WELDMENT, FUEL	
			[Capacity 35.3 gallons (133.6 liters)]	1
	2003034		**Standard tank:** overall height is 32" (.81 M)	
	2097060		**Optional tank:** overall height is 25-1/4" (.64 M)	
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		ELBOW, PIPE THREAD ADAPTER (1/4 CR-S)	1
6	06-080200		ELBOW, STRAIGHT/ PIPE THREAD (1/4 CD-S)	1
7	06-000400		CONNECTOR, MALE (4-4 FTX-S)	1
8	11-050401		FITTING, HOSE	
			(Brass, barbed, 1/4" I.D. hose, 1/4" male NPT thread)	1
9	11-050403		FITTING, HOSE	
			(Brass, barbed, 5/16" I.D. hose, 1/4" male NPT thread)	1
10	06-080200		90° STREET ELBOW (1/4 CD-S) (for Diesel engine)	1
			PLUG (except Diesel engine)	1
	11-075400		SQUARE HEAD (1/4" NPT) (option with 06-079800)	
	06-079800		HEX SOCKET NPT (1/4 HHP-S) (option with 11-075400)	
			The items listed below **are not** part of Fuel Tank Assembly:	
11			HOSE, FUEL FEED (5/16" I.D.)	A.R.
12			HOSE, FUEL RETURN (1/4" I.D.)	A.R.
13	09-004600		CLAMP, HOSE (Worm type, 1/4" to 5/8")	2
14	07-040018		NUT, HEX (1/2"-13, Grade 5)	4
15	07-065018		WASHER, LOCK (1/2")	4
16	07-062018		WASHER, FLAT (1/2")	4

TITLE FUEL TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)

PLATE NO.	C11.01	**SIMON AERIALS INC.**	REV. 29 JUN., 1994	PART NO.



TITLE	FUEL TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)		
SIMON AERIALS INC.	REV. 29 JUN., 1994	PART NO.	PLATE NO. C11.01

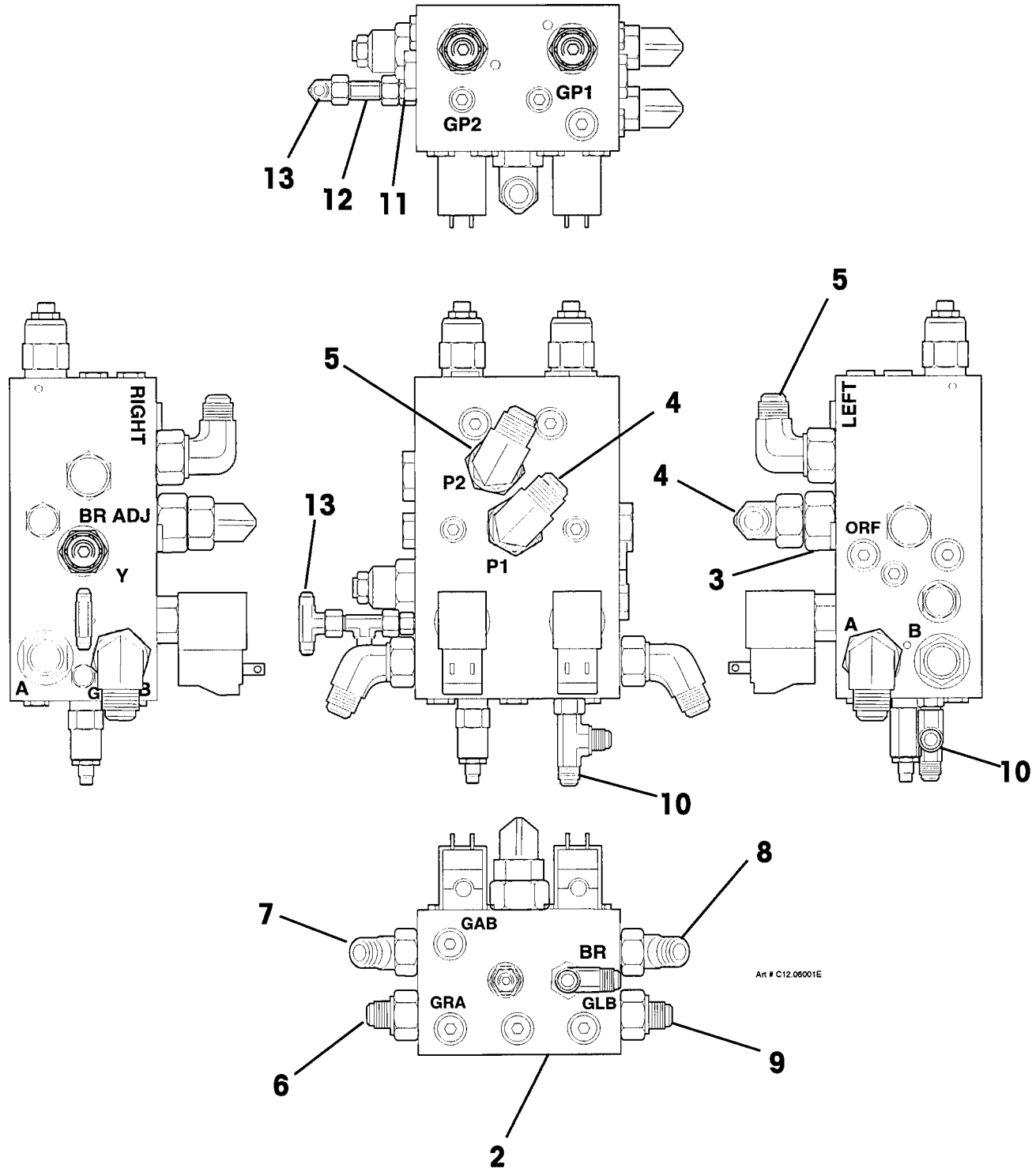
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	355 0800		DRIVE VALVE ASSEMBLY (For Two Wheel Drive versions)	1
2	01-238300		VALVE BLOCK ASSEMBLY, DRIVE	1
			Port "P1":	
3	06-041400		ADAPTER, "O"-RING TO 37° (16 F5OX-S)	1
4	06-052000		90° ELBOW, SWIVEL NUT (16 C6X-S)	1
			Port "P2":	
5	06-045800		90° ELBOW, "O"-RING TO 37° (16 C5OX-S)	1
			Port "A" (Right side):	
6	06-040800		ADAPTER, "O"-RING TO 37° (12 F5OX-S)	1
			Port "B" (Right side):	
7	06-047400		45° ELBOW, "O"-RING TO 37° (12 V5OX-S)	1
			Port "A" (Left side):	
8	06-047400		45° ELBOW, "O"-RING TO 37° (12 V5OX-S)	1
			Port "B" (Left side):	
9	06-040800		ADAPTER, "O"-RING TO 37° (12 F5OX-S)	1
			Port "BR" (Brake):	
10	06-048500		RUN TEE, MALE "O"-RING TO 37° (6 R5OX-S)	1
			Port "Y" (Drain):	
11	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	1
12	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	1
13	06-056000		BRANCH TEE, 37° FEMALE SWIVEL NUT (6 S6X-S)	1
			The following items are not included with the Drive Valve Assembly:	
14	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
15	07-062016		WASHER, FLAT (3/8")	4
16	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4

TITLE: DRIVE VALVE ASSEMBLY (TWO WHEEL DRIVE), MPH 60

SECTION C12. | PLATE NO. 06 | PAGE 01 | REV. - | DATED 28 JAN., 1997 | PART NO. 355 0800

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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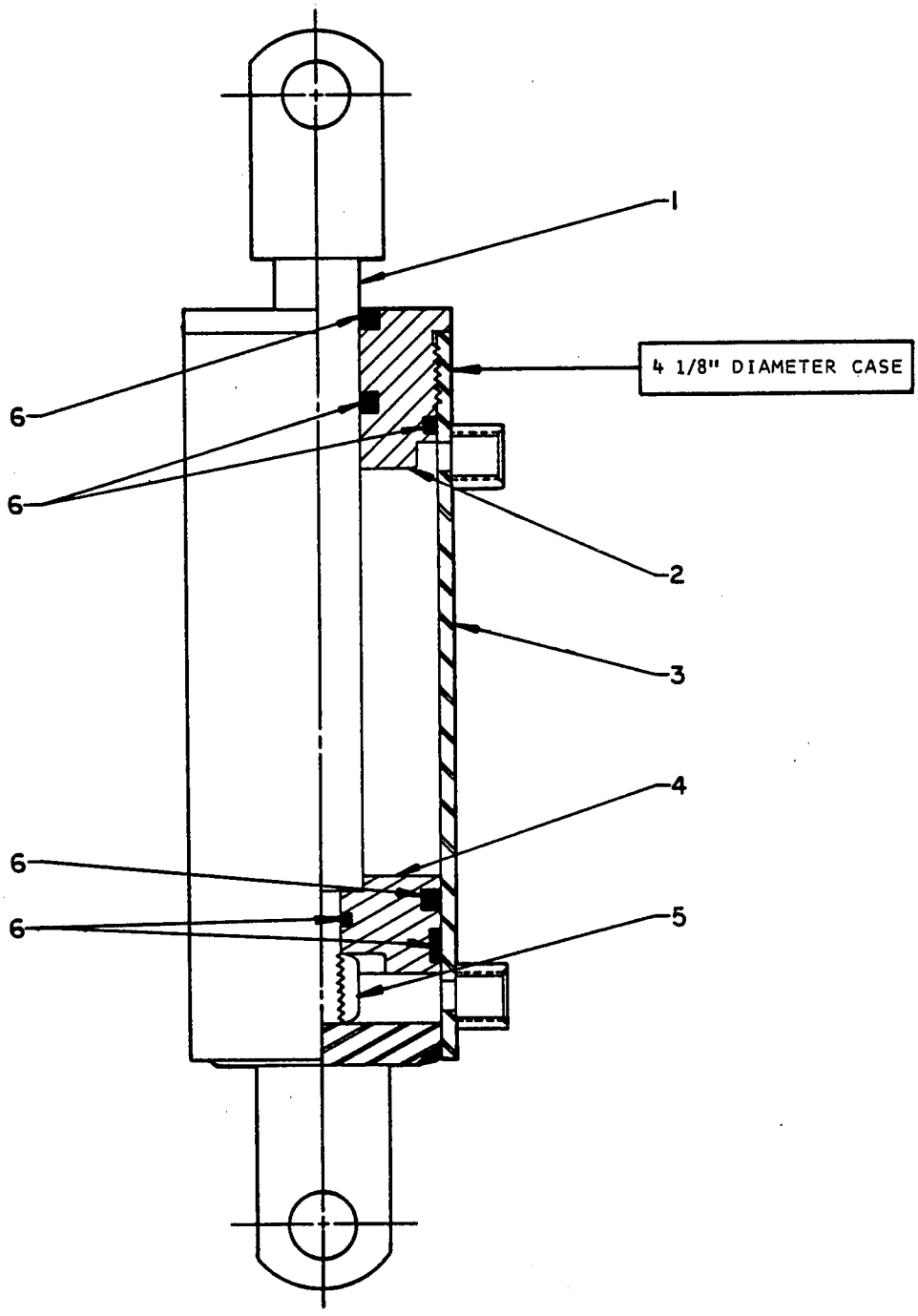
Simon Aerials Inc.
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TITLE	DRIVE VALVE ASSEMBLY (TWO WHEEL DRIVE), MPH 60					
PART NO.	355 0800	REV. -	DATED 28 JAN., 1997	SECTION C12.	PLATE NO. 06	PAGE 01

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	04-008902		ROD W/CLEVIS	1
2	04-008903		HEAD GLAND	1
3			CASE	1
4	04-008904		PISTON	1
5			LOCKNUT	1
6	04-008901		SEAL KIT	1

DESCRIPTION	PART NO.
STEER CYLINDER	04-008900



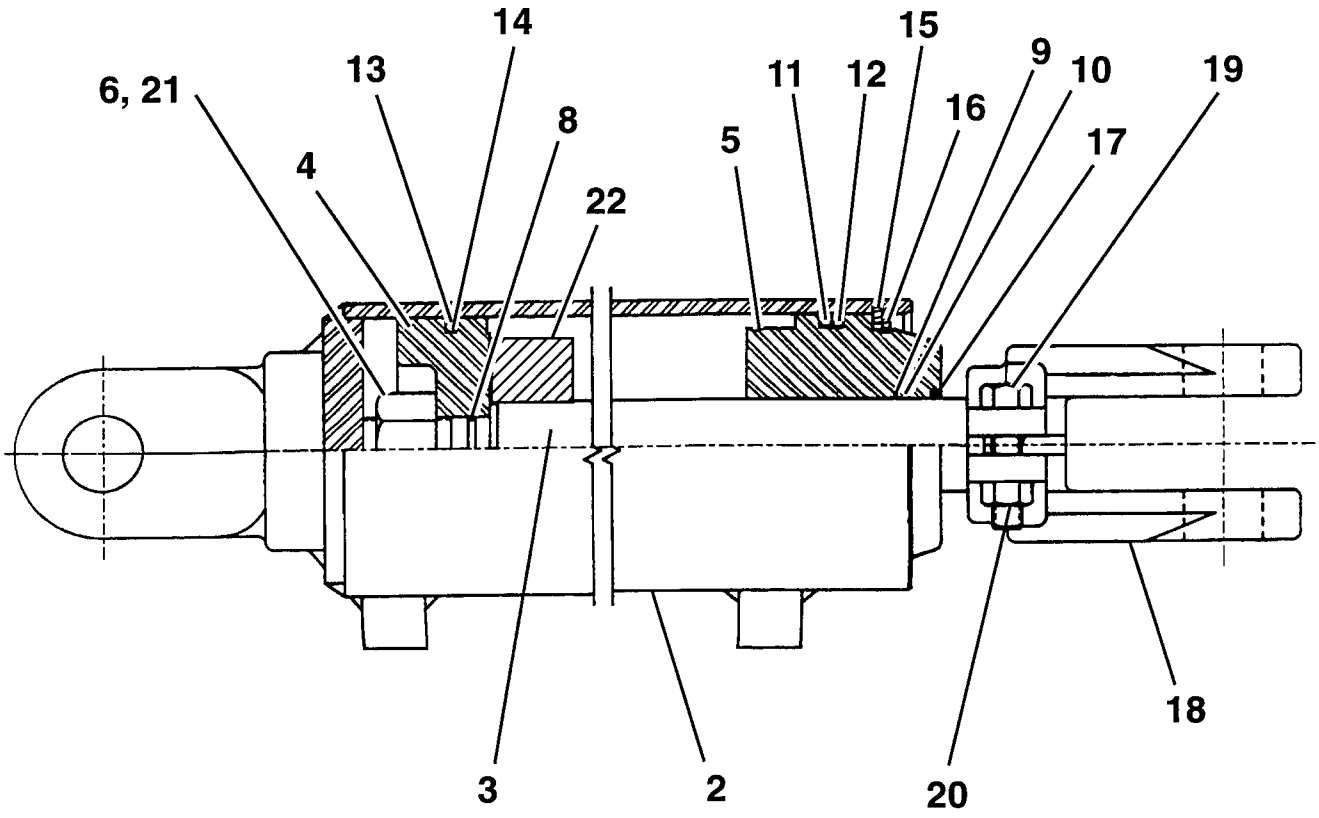
1283/1283

DESCRIPTION	PART NO.
STEER CYLINDER	04-008900

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].	
	04-033200		**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

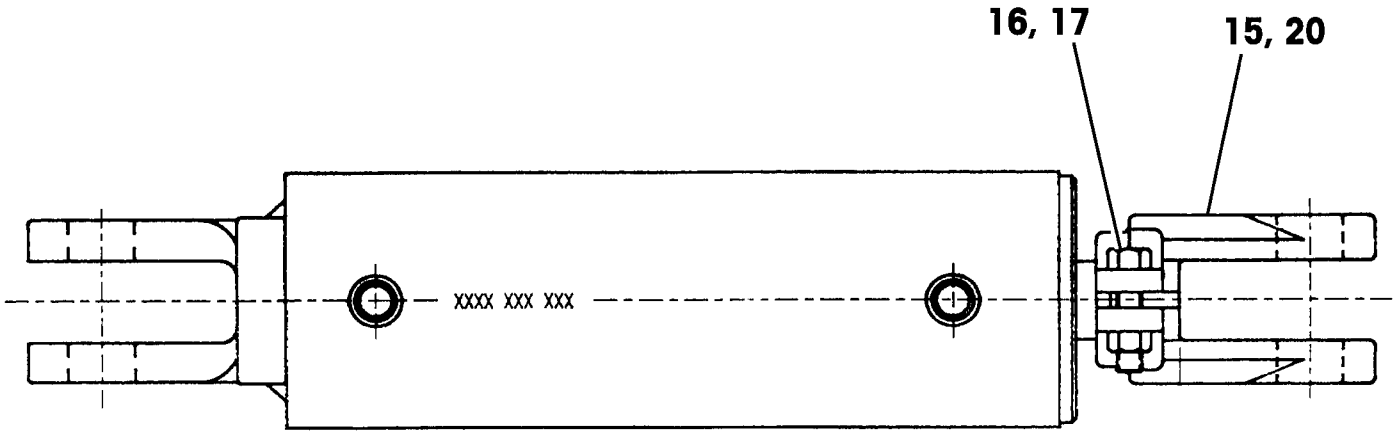
PARTS LIST

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

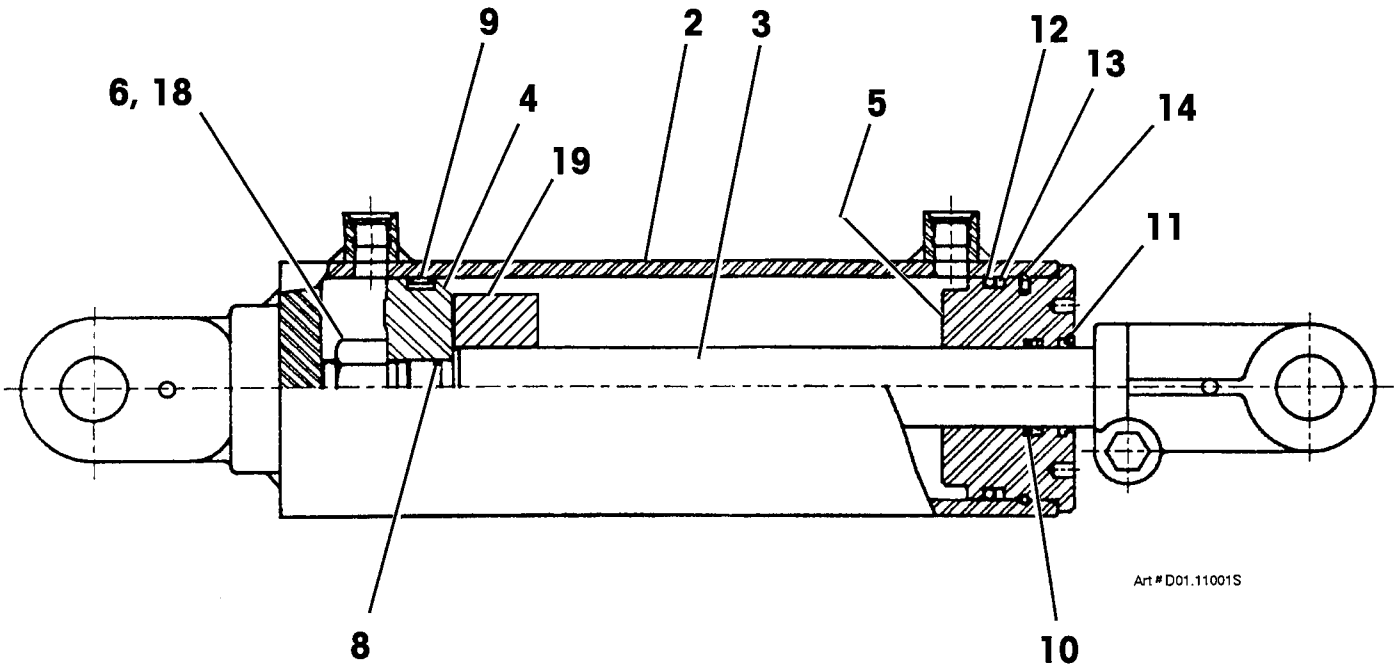
TITLE: STEER CYLINDER

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

Simon Aerials Inc.
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Art # D01.11002S



Art # D01.11001S

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

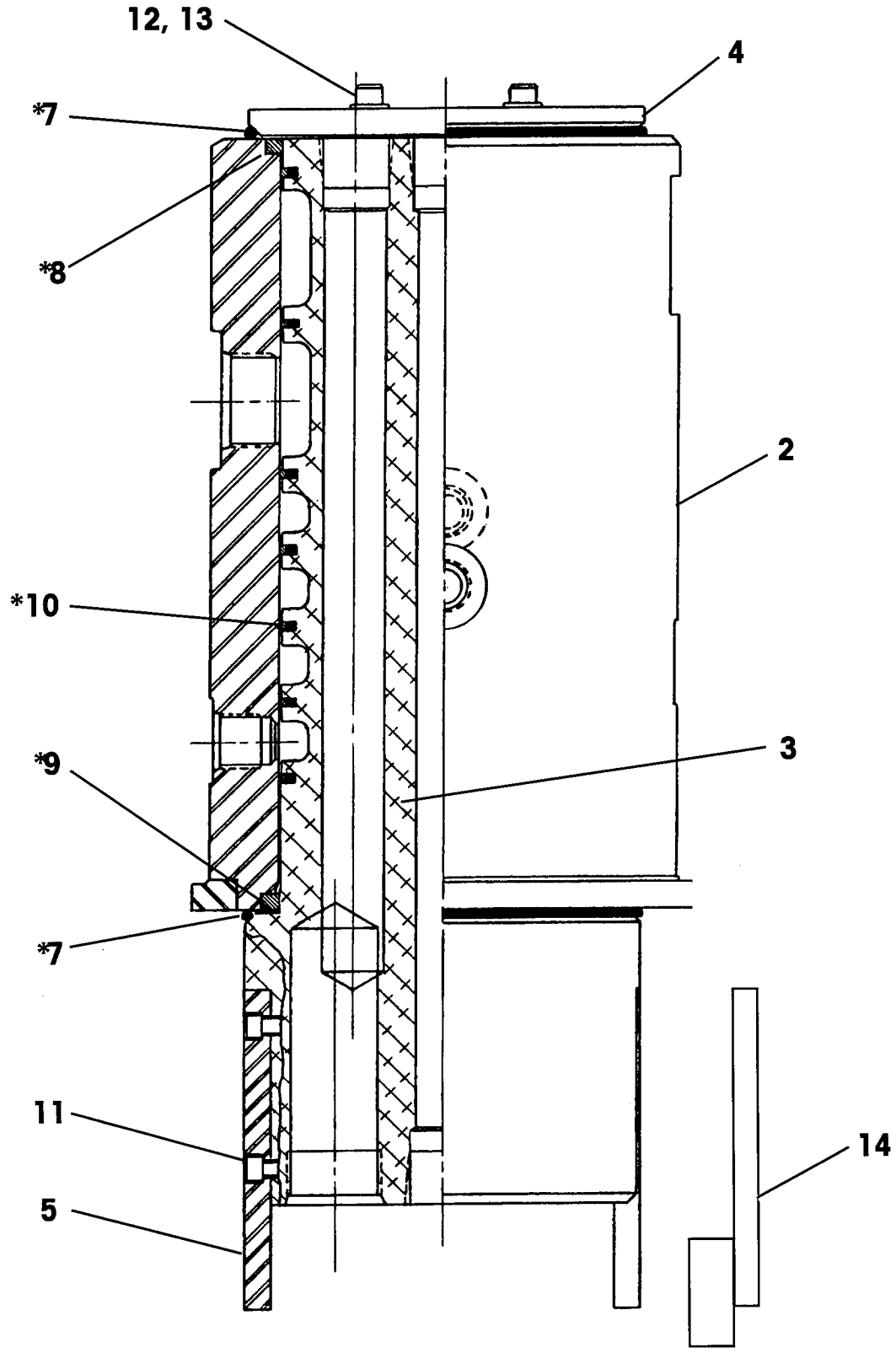
PARTS LIST

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

Simon Aerials Inc.
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Note: Items in service kit identified by asterisk (*)

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TITLE: HYDRAULIC SWIVEL

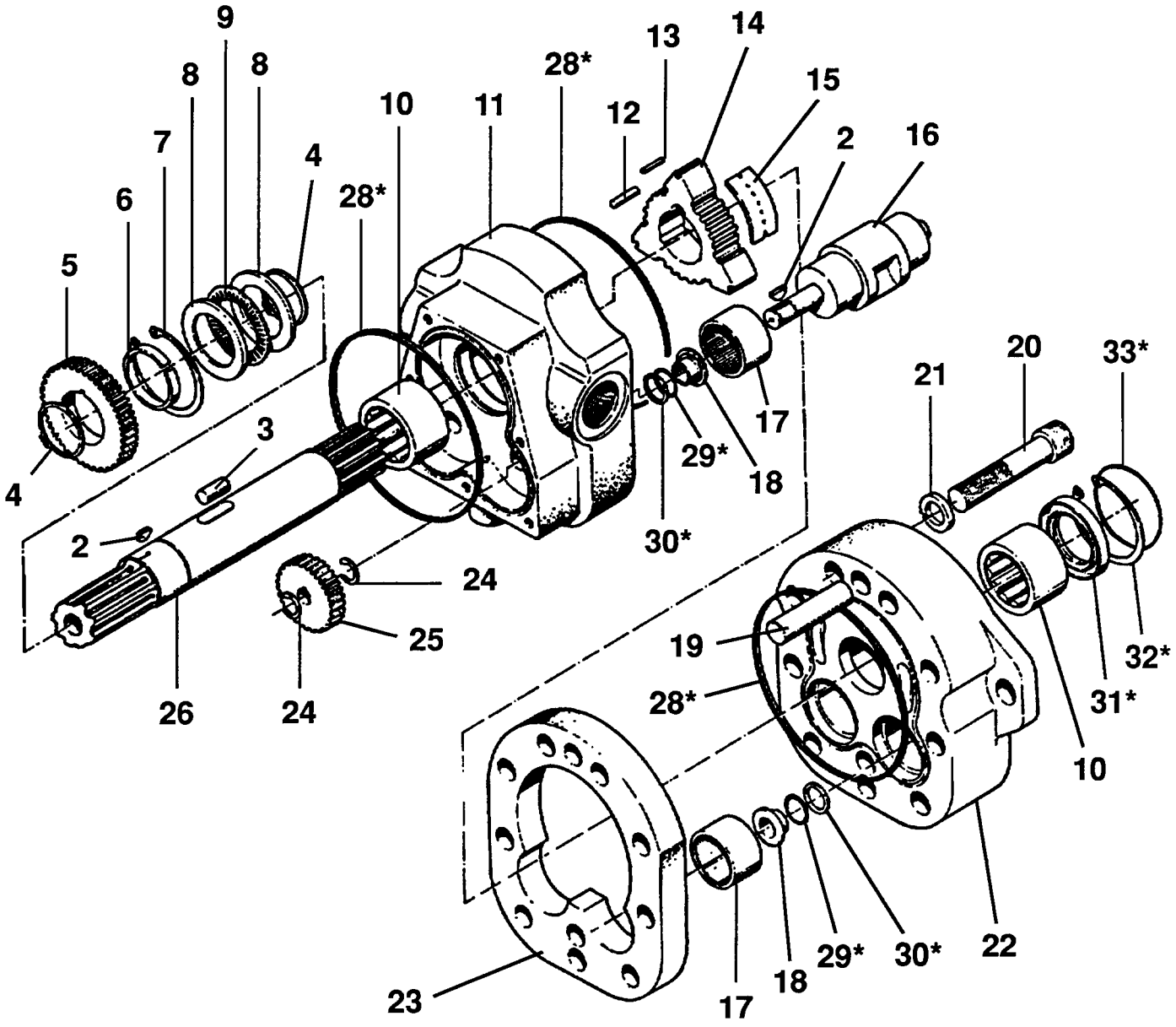
PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	-	22 APR., 1996	D02.	01	01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-000446		MOTOR ASSEMBLY	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
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. 7/12/91 | PART NO. 01-004800



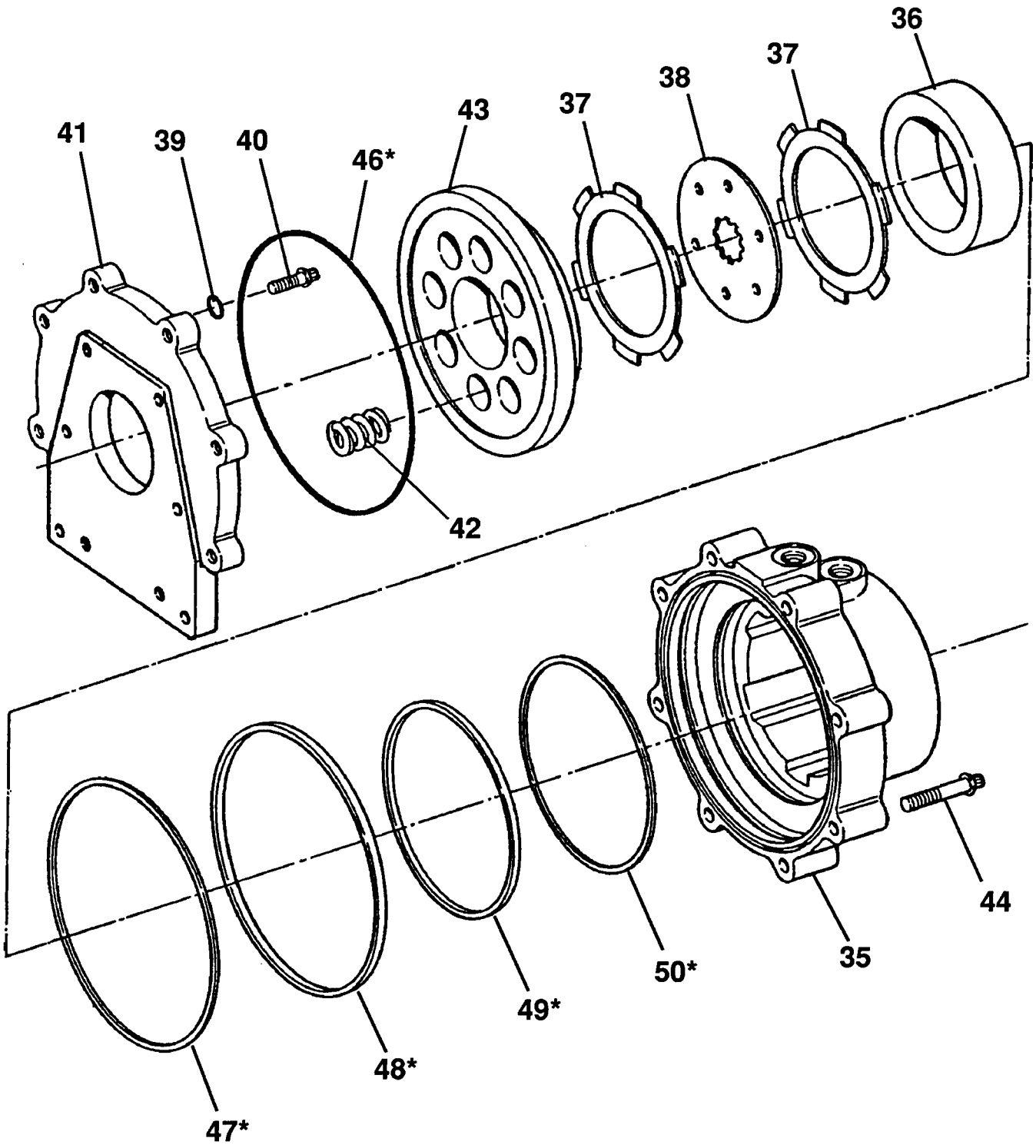
TITLE	WHEEL MOTOR/ BRAKE (MOTOR, 4 IN.^{3}, PLATE 1 OF 2)		
SIMON AERIALS INC.	REV. 7/19/91	PART NO. 01-004800	PLATE NO. D03.02

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



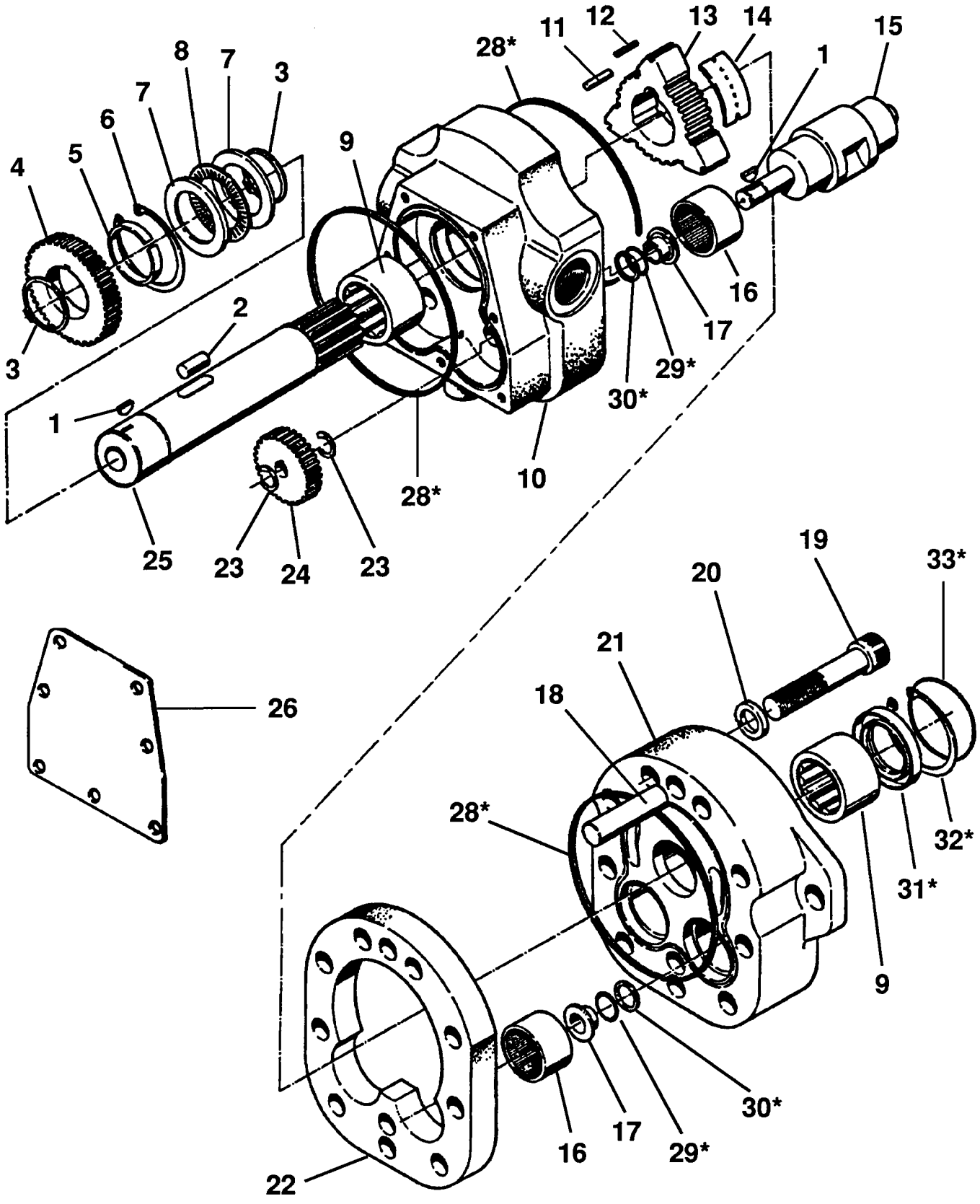
TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 7/19/91	PART NO. 01-004800	PLATE NO. D03.02	

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



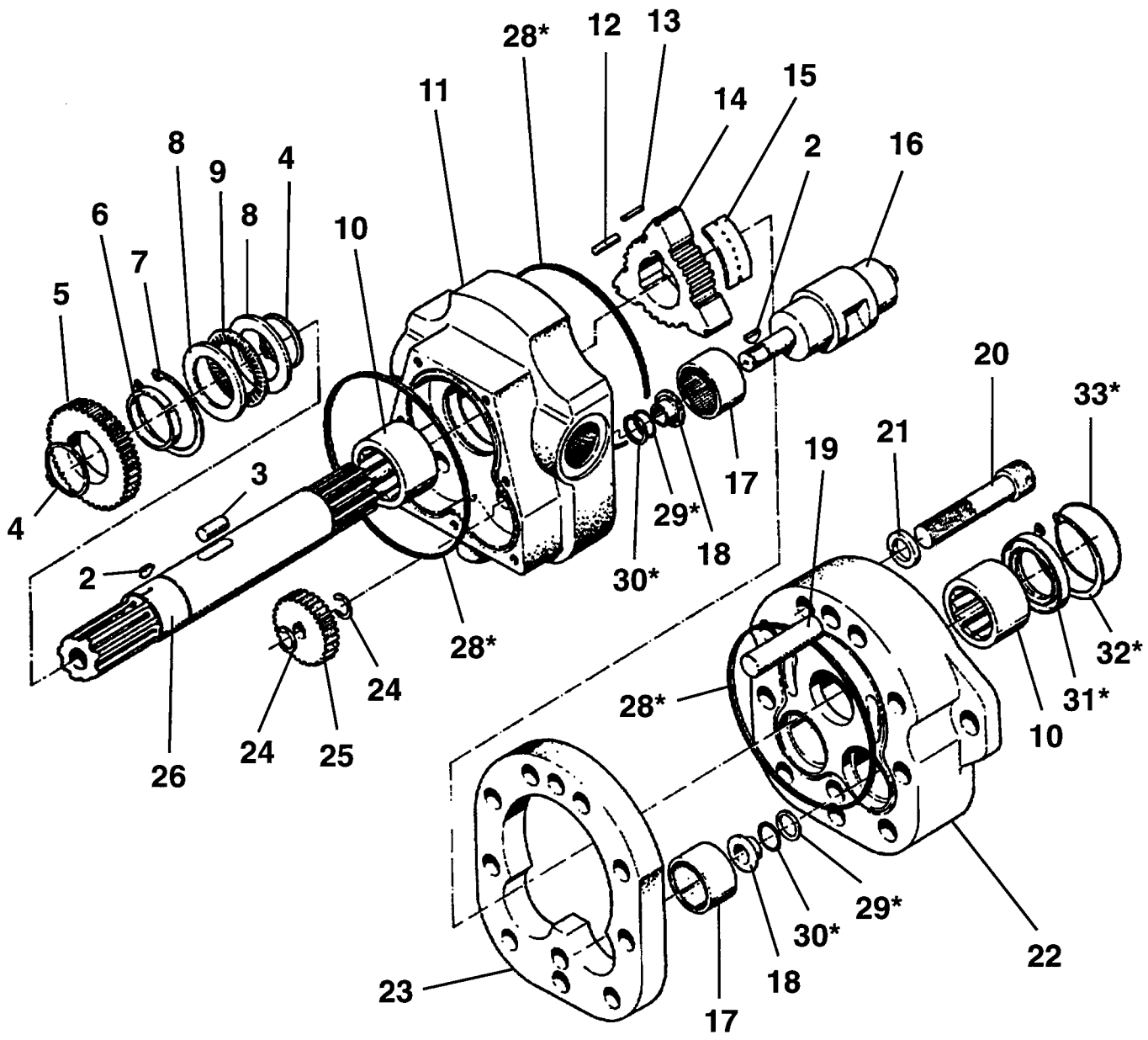
TITLE	WHEEL MOTOR (4 IN.^{3}, USED W/O BRAKE ON 4WD STEER AXLE)		
SIMON AERIALS INC.	REV. 7/19/91	PART NO. 01-003400	PLATE NO. D03.07

PARTS LIST

ITEM	PART NO	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

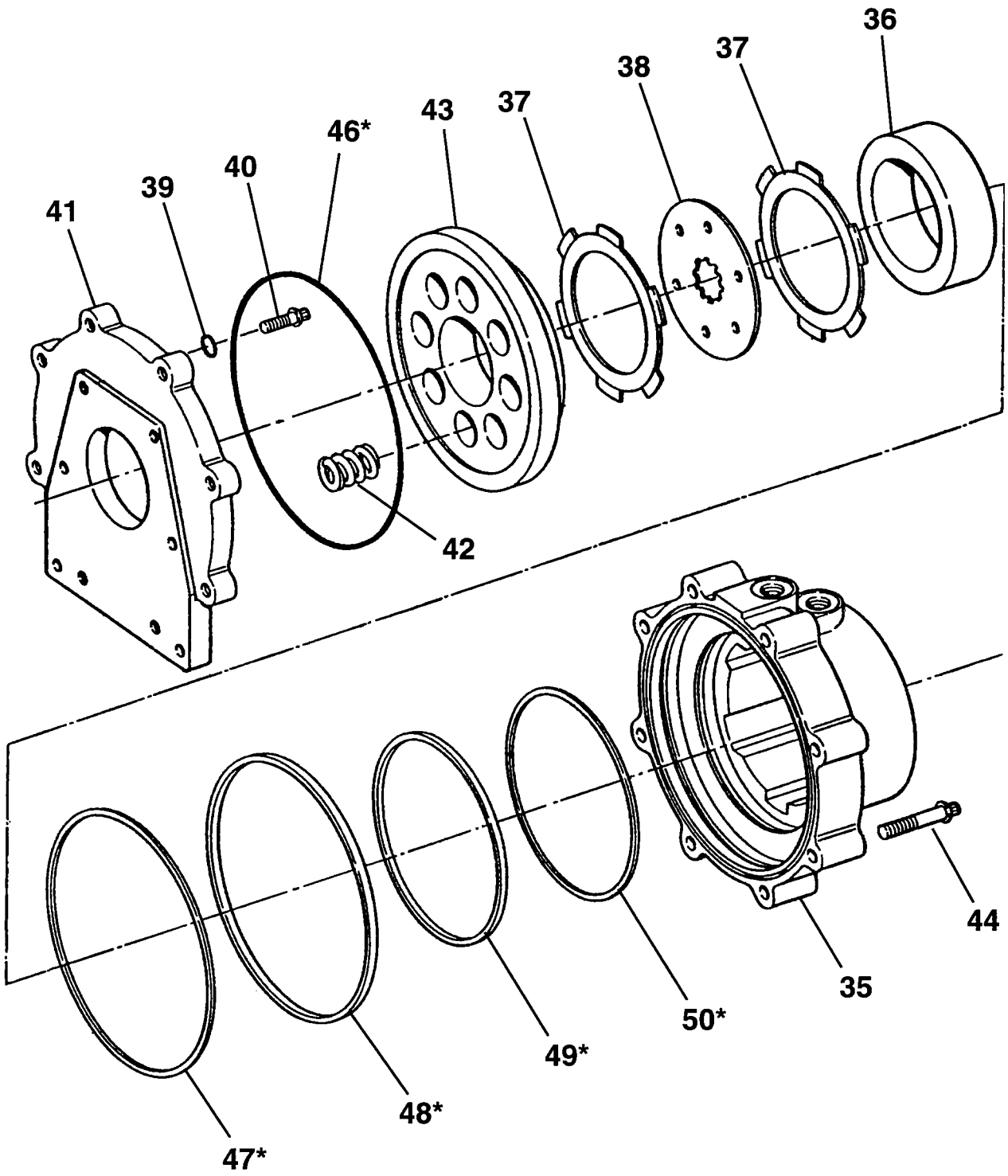


TITLE	WHEEL MOTOR/ BRAKE (MOTOR, 5 IN.^{3}, PLATE 1 OF 2)		
SIMON AERIALS INC.	REV. 14 JUN., 1994	PART NO. 01-064200	PLATE NO. D03.09

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

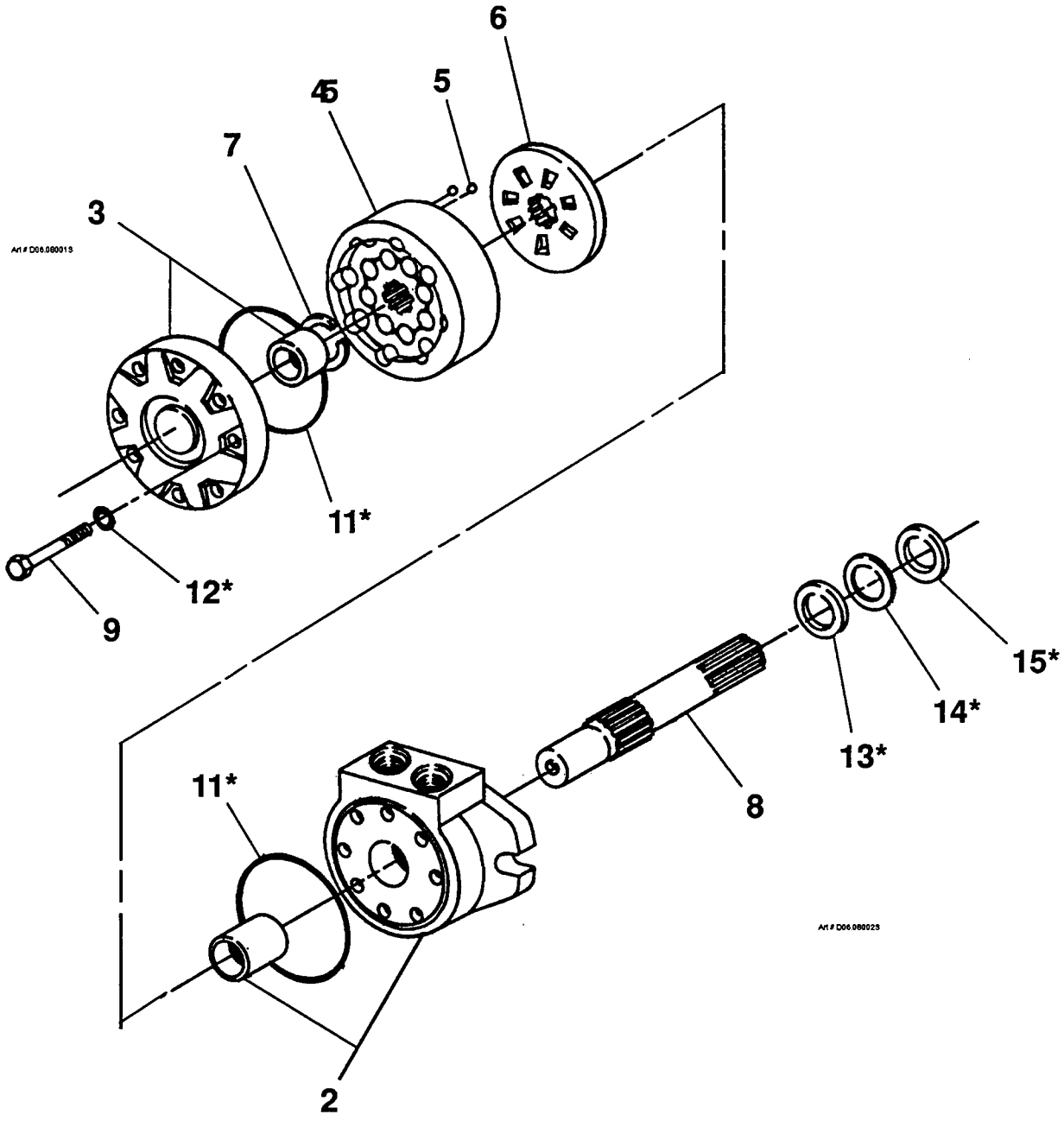


TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 14 JUN., 1994	PART NO. 01-064200	PLATE NO. D03.09	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-016700		MOTOR ASSEMBLY (See plate 2 of 2 for brake)	
2			BODY ASSEMBLY, MOTOR (with bearing)	1
3			COVER ASSEMBLY (with bearing)	1
4			IGR ASSEMBLY (with ring)	1
5			BALL, CHECK VALVE	2
6			VALVE, ROTARY	1
7			RING, SNAP	1
8			SHAFT, MOTOR	1
9			CAP SCREW, SOCKET HEAD	8
10	01-011801		SEAL KIT, MOTOR **Note:** Items included in seal kit marked by asterisk (*)	
11			SEAL, SQUARE RING	2
12			SEAL, WASHER	8
13			SEAL, QUAD RING	1
14			RING, BACK UP	1
15			SEAL, DUST	1

TITLE	WHEEL MOTOR/ BRAKE (MOTOR, PLATE 1 OF 2)			
PLATE NO. D03.10	**SIMON AERIALS INC.**	REV. 7/22/91	PART NO.	01-016700

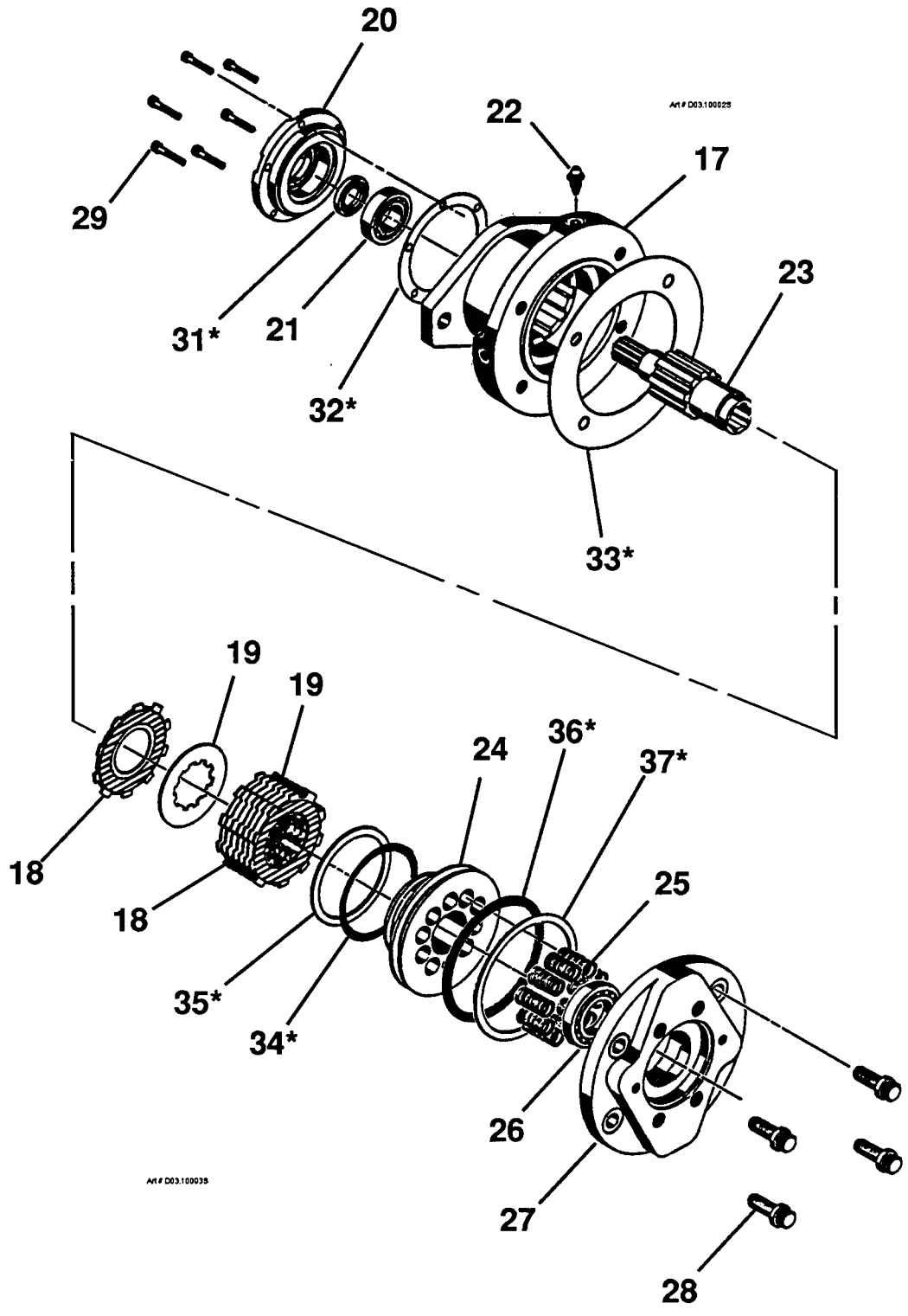


TITLE	WHEEL MOTOR/ BRAKE (MOTOR, PLATE 1 OF 2)		
SIMON AERIALS INC.	REV. 7/22/91	PART NO. 01-016700	PLATE NO. D03.10

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
16	01-018500		BRAKE ASSEMBLY (See plate 1 of 2 for motor)	1
17			CASE	1
18			DISC, FRICTION	8
19			PLATE, SEPARATOR	7
20			PLATE, BASE	1
21			BEARING	1
22			FITTING, PRESSURE BLEED	1
23			SHAFT	1
24			PISTON	1
25			SPRING	10
26			BEARING	1
27			COVER	1
28			CAP SCREW, TWELVE POINT	4
29			CAP SCREW, SOCKET HEAD	6
30	01-012101		SEAL KIT, BRAKE	1
			Note: Items included in seal kit marked by asterisk (*)	
31			SEAL, SHAFT	1
32			GASKET, BASE PLATE	1
33			GASKET, COVER	1
34			"O"-RING	1
35			RING, BACK UP	1
36			"O"-RING	1
37			RING, BACK UP	1

TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)	
PLATE NO. D03.10	**SIMON AERIALS INC.** REV. 7/22/91	PART NO.

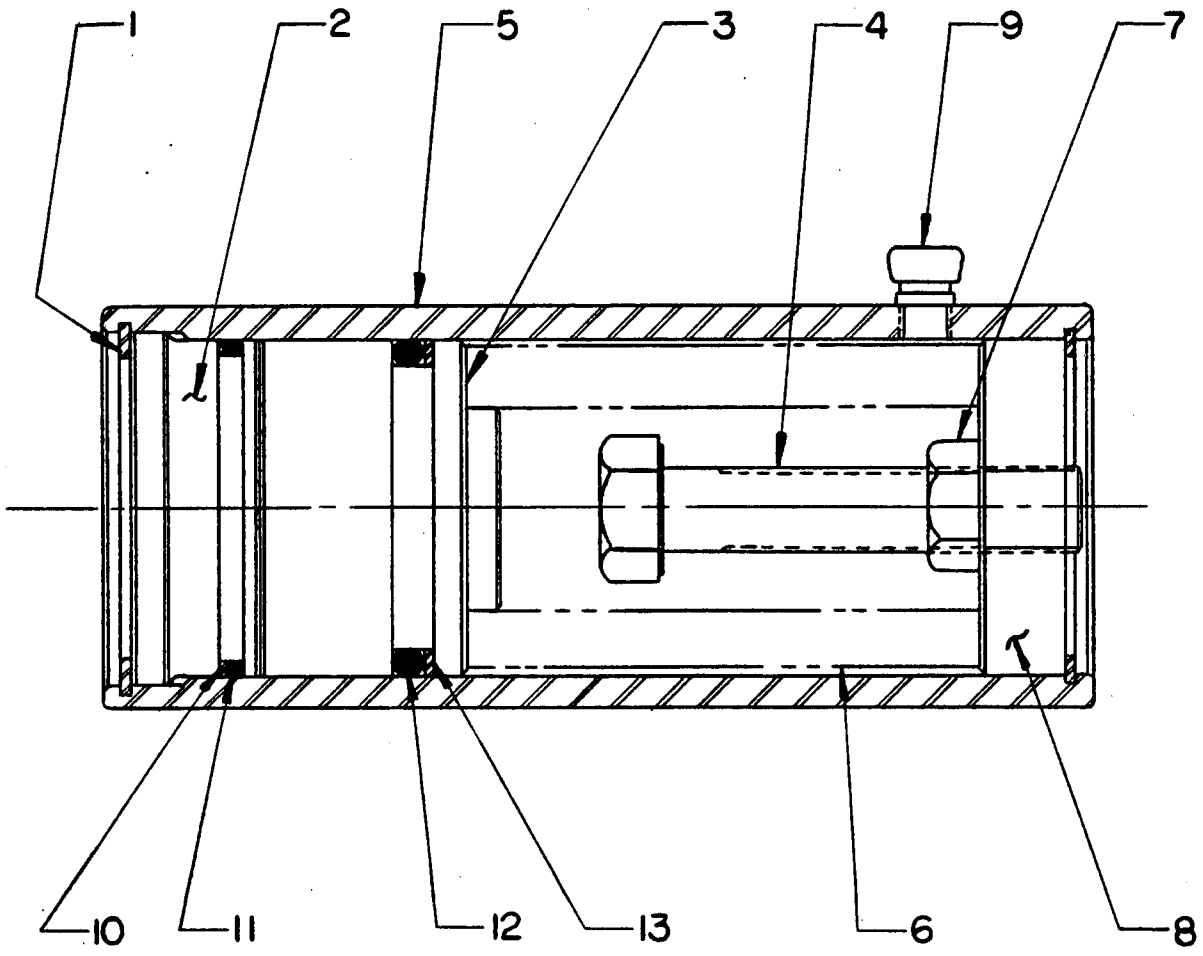


TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 7/22/91		PART NO.	PLATE NO. D03.10

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-001502		RETAINING RING	2
2			PORT CAP	1
3			PISTON	1
4			SCREW	1
5			CYLINDER	1
6			SPRING	1
7			NUT	1
8			CYLINDER CAP	1
9			VENT	1
10			BACK-UP RING	1
11			'O' RING	1
12			'O' RING	1
13			BACK-UP RING	

DESCRIPTION	PART NO.
ACCUMULATOR	01-001500



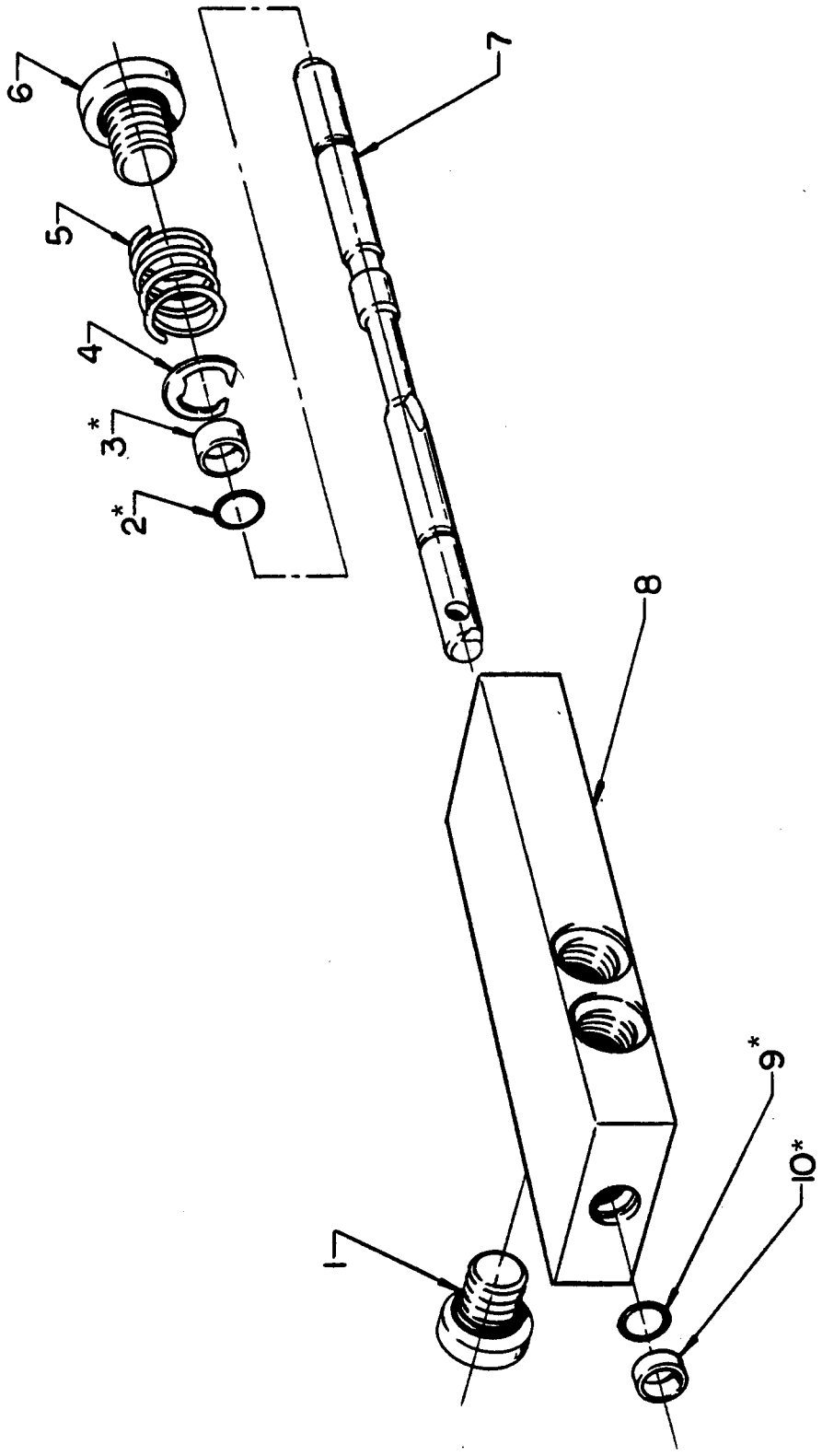
1183/0677

DESCRIPTION	PART NO.
ACCUMULATOR	01-001500

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

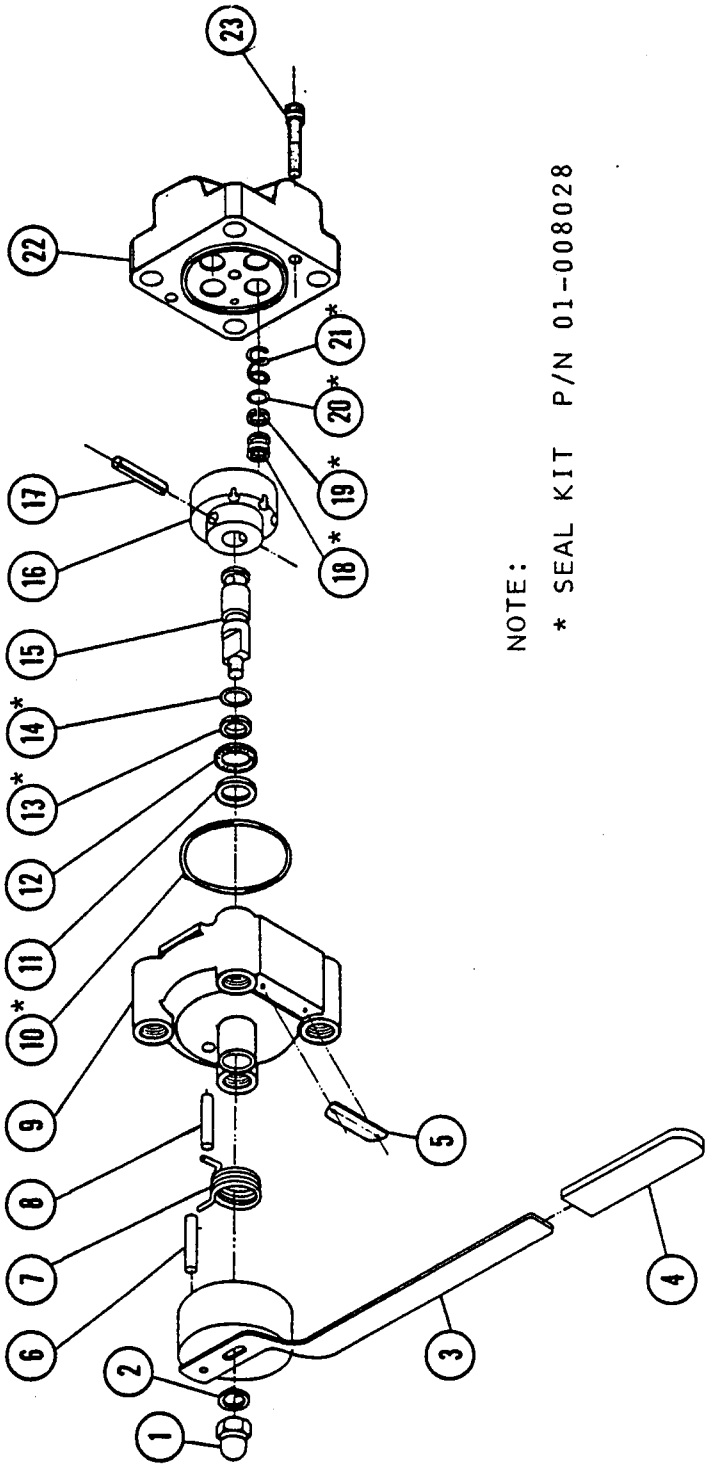
0484/0383

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

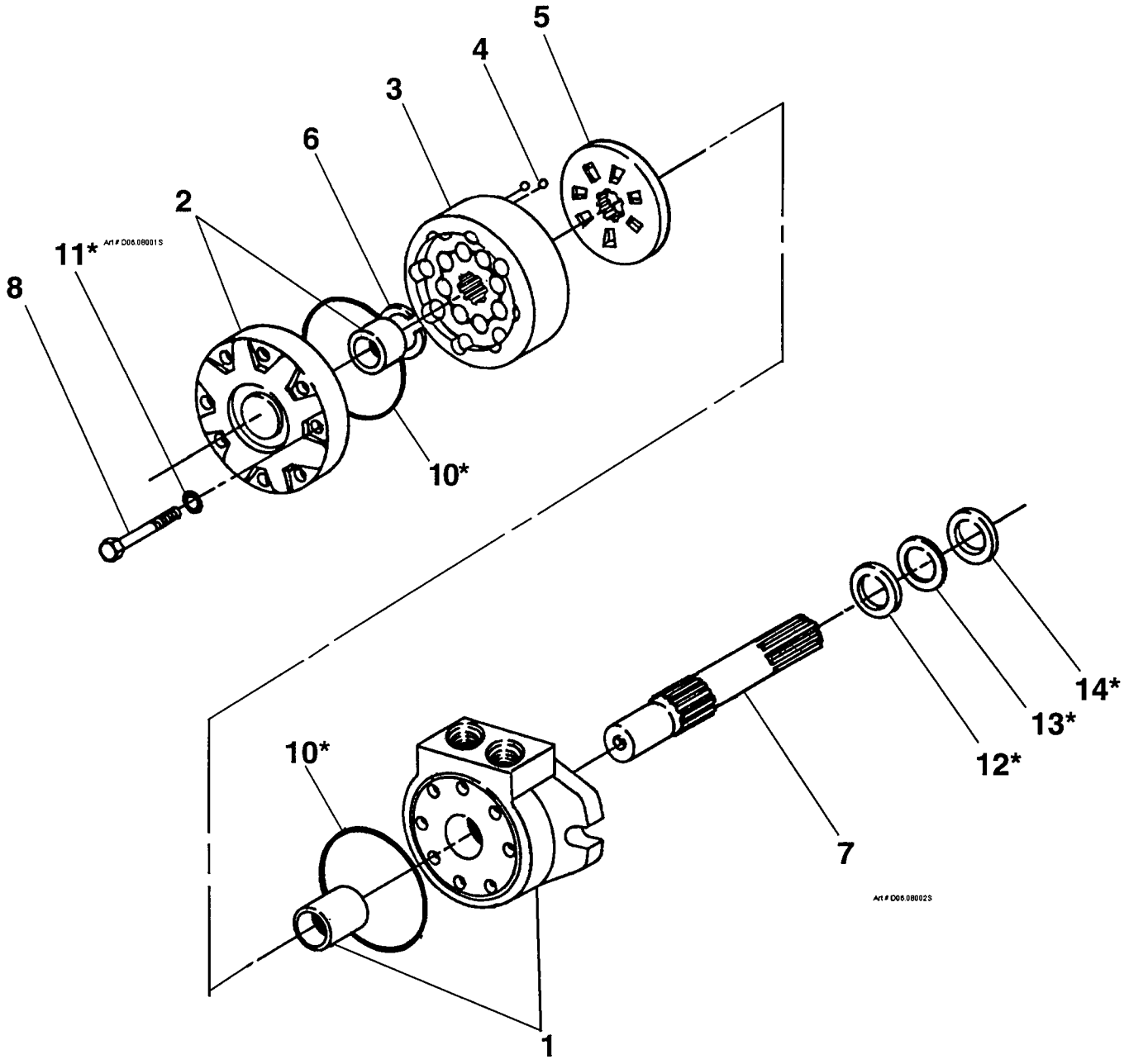
DESCRIPTION	PART NO.
HPC VALVE, GROUND CONTROLS	01-032600

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BODY ASSEMBLY, MOTOR (with bearing)	1
2			COVER ASSEMBLY (with bearing)	1
3	01-005702		IGR ASSEMBLY (with ring)	1
4			VALVE, BALL CHECK	2
5			VALVE, ROTARY	1
6			RING, SNAP	1
7			SHAFT	1
8			CAP SCREW, HEX HEAD	8
9	01-005701		SEAL KIT **Note:** Items in seal kit identified by asterisk (*).	1
10			SEAL, SQUARE RING	2
11			SEAL, WASHER	8
12			SEAL, QUAD RING	1
13			RING, BACKUP	1
14			SEAL, DUST	1

TITLE SWING MOTOR

PLATE NO.			PART NO.
D06.08	**SIMON AERIALS INC.**	REV. 06 JUN., 1995	01-005700



TITLE	SWING MOTOR		
SIMON AERIALS INC. REV. 06 JUN., 1995	PART NO. 01-005700	PLATE NO. D06.08	

PARTS LIST

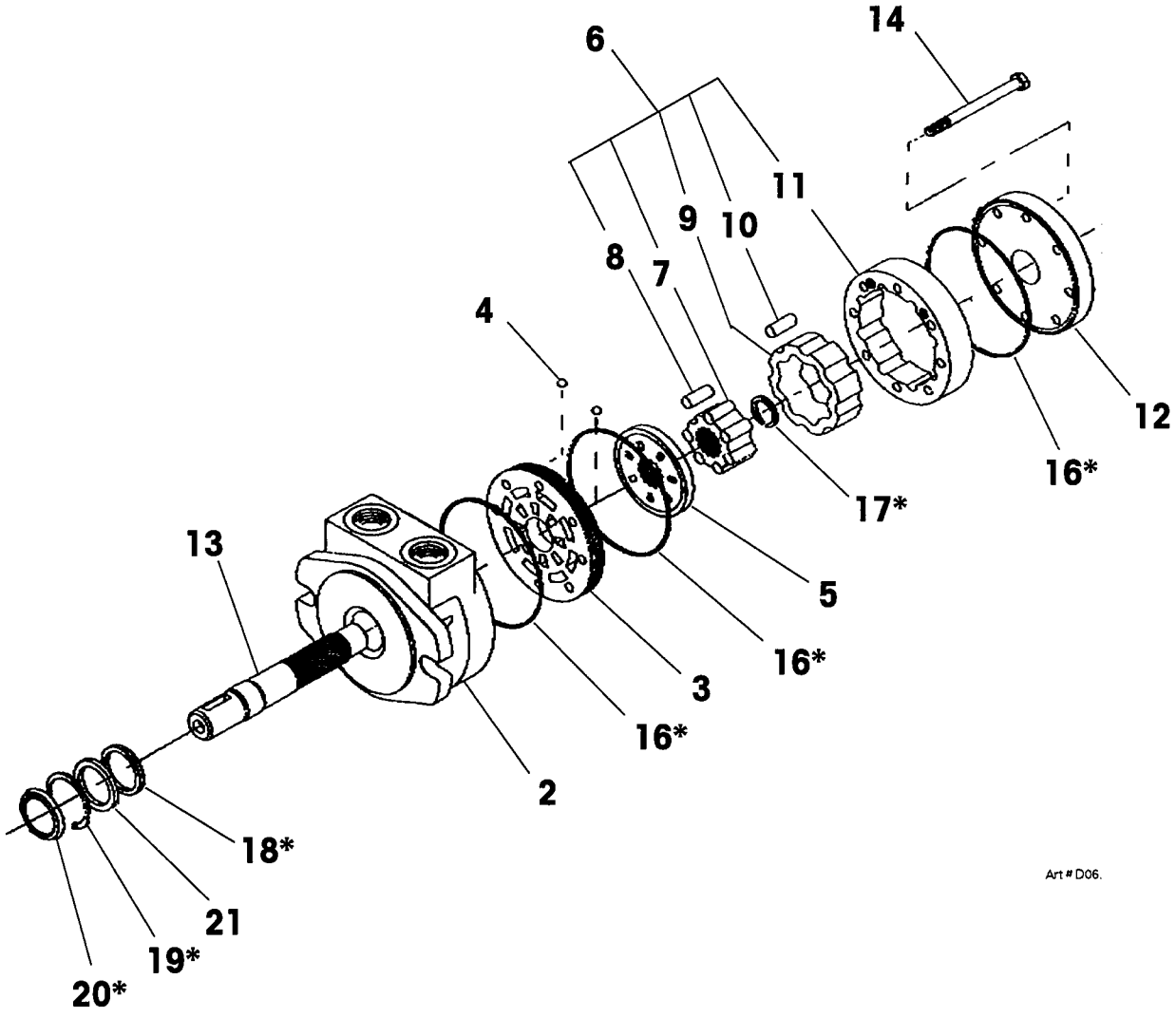
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-215500		MOTOR ASSEMBLY (Motor I.D. tag reads "**111A 164 AS 0**")	
			(16.4 c.i. [269 c.c.]/ rev. displacement)	1
2			BODY ASSEMBLY, MOTOR (with bearing) (SAE "A", 2 bolt)	1
3			PLATE, COMMUTATOR	1
4			BALL, CHECK VALVE	2
5			VALVE, ROTARY	1
6			ROTOR ELEMENT (IGR Assembly)	1
7			ROTOR, INNER	1
8			ROLL, SEALING	A.R.
9			ROTOR, OUTER	1
10			ROLLER, ANTI-ROTATION	A.R.
11			RING, LOCATING	1
12			COVER ASSEMBLY (with bearing)	1
13	01-215502		SHAFT (1" SAE 6B spline)	1
14			CAP SCREW, HEX HEAD (5/16"-24)	8
15	01-215501		SEAL KIT **Note:** Items in seal kit identified by asterisk (*).	1
16			SEAL, SQUARE RING (7/16")	3
17			RING, SNAP	1
18			SEAL, LIP	1
19			RING, SNAP	1
20			SEAL, DUST	1
21			RING, BACKUP	1

TITLE

SWING MOTOR

SECTION D06. | PLATE NO. 12 | PAGE 01 | REV. - | DATED 19 JUL., 1994 | PART NO. 01-215 500

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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TITLE

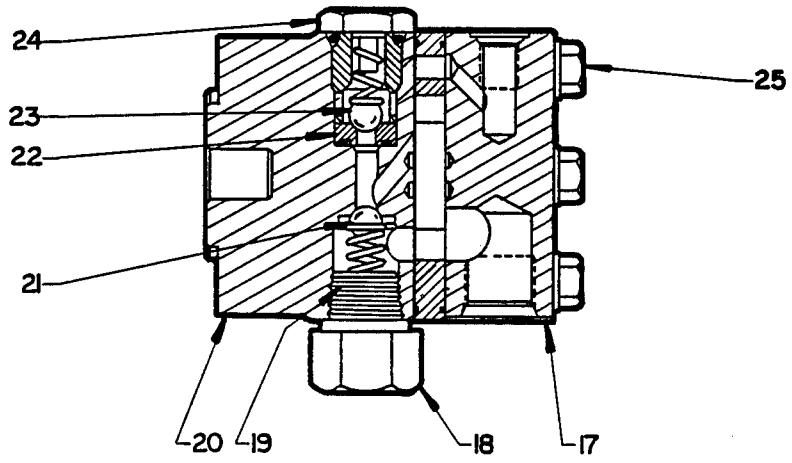
SWING MOTOR

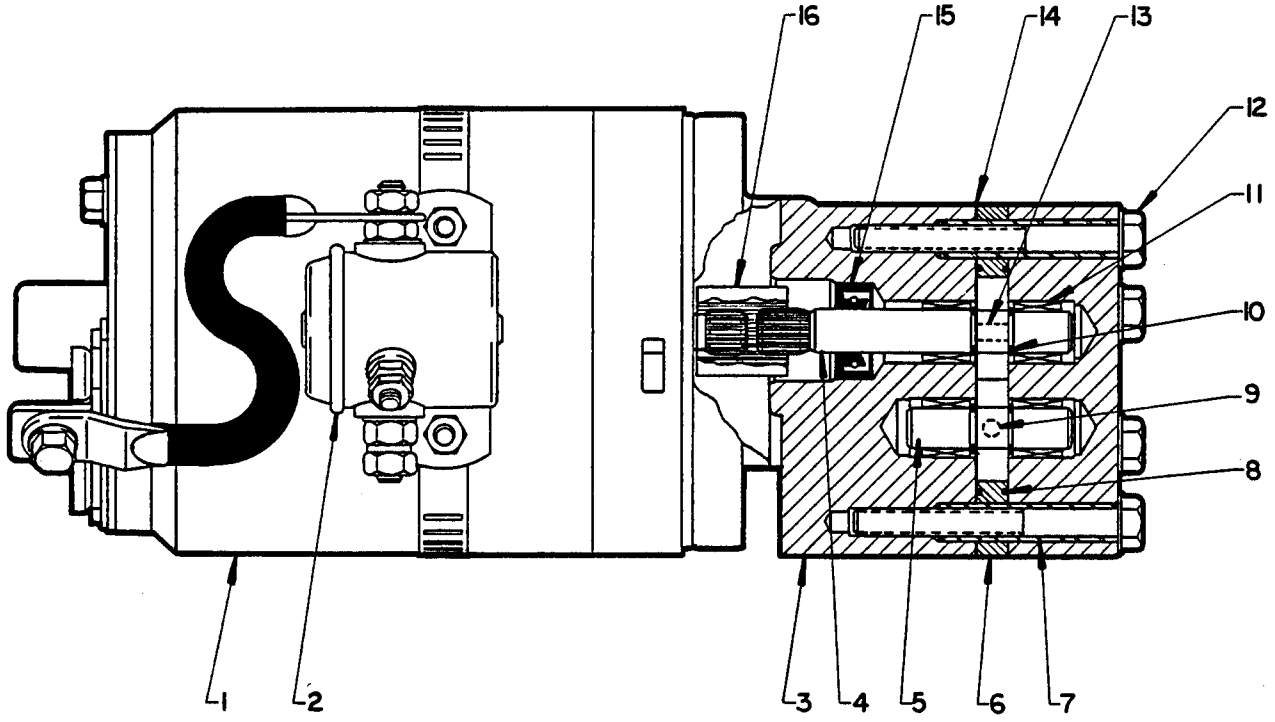
PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
01-215 500	-	19 JUL., 1994	D06.	12	01

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			MOTOR	1
2	01-020201		SOLENOID RELAY	1
3			PUMP ASSEMBLY (COMPLETE)	1
4			DRIVE SHAFT	1
5			IDLER SHAFT	1
6			GEAR & HOUSING SET	1
7			DOWEL PIN	2
8			'O' RING	2
9			.156 DIA. BALL	1
10			RETAINING RING	4
11			NEEDLE BEARING	4
12			H.H.C.S. 5/16-24 X 2½" LG.	2
13			DRIVE PIN	1
14			.001 GASKET	1
15	01-020212		DRIVE SHAFT OIL SEAL	1
16			COUPLING	1
17			BACK COVER	1
18			RELIEF CAP	1
19			ADJUSTING SCREW	1
20			FRONT COVER	1
21	01-020206		SPRING & BALL ASSEMBLY (RELIEF)	1
22			VALVE SEAT ASSEMBLY	1
23			SPRING & BALL ASSEMBLY (CHECK)	1
24			CHECK CAP ASSEMBLY	1
25			H.H.C.S. 5/16-24 X 2" LG.	4

DESCRIPTION	PART NO.
EMERGENCY PUMP	01-027000





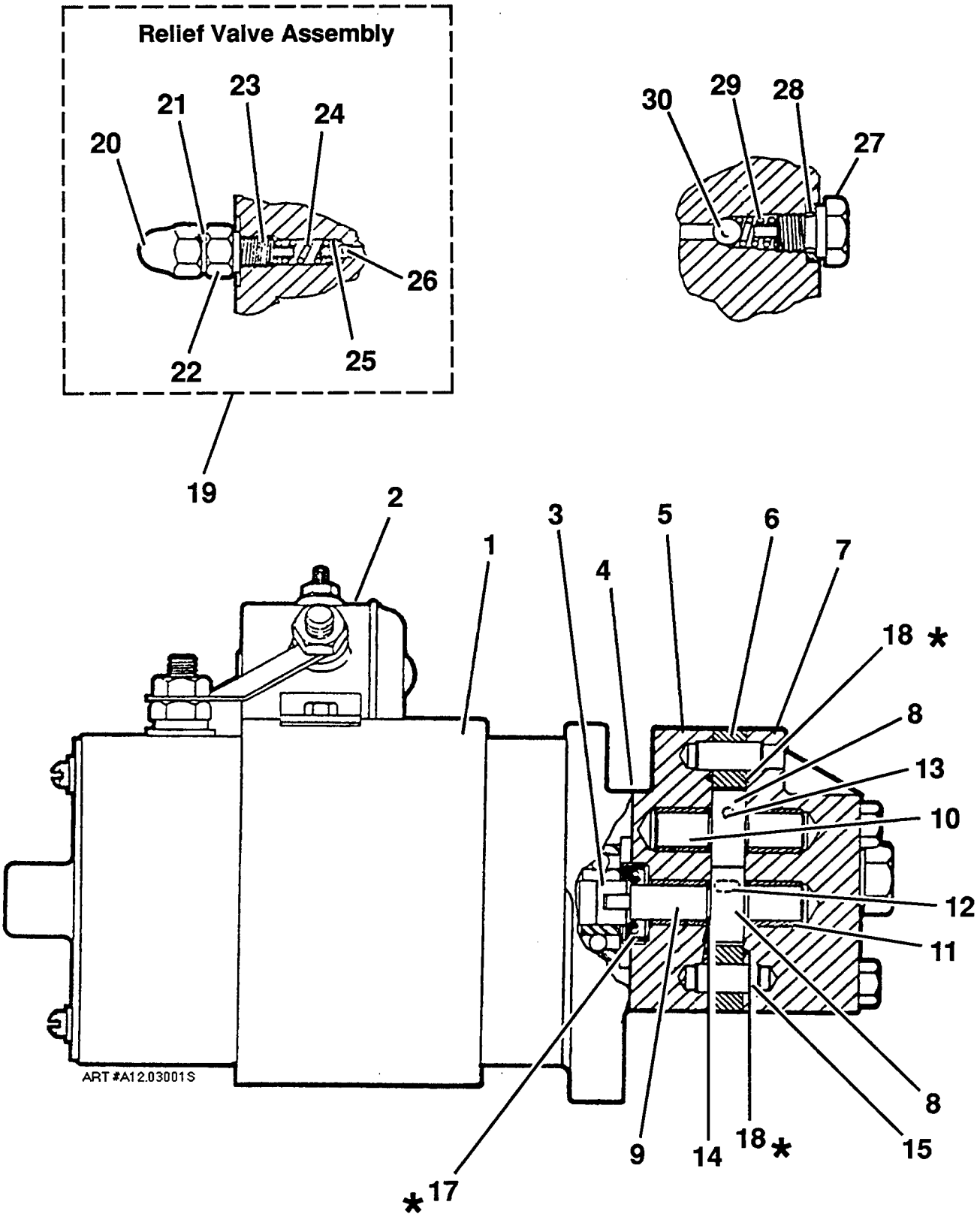
0385/0285

DESCRIPTION	PART NO.
EMERGENCY PUMP	01-027000

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

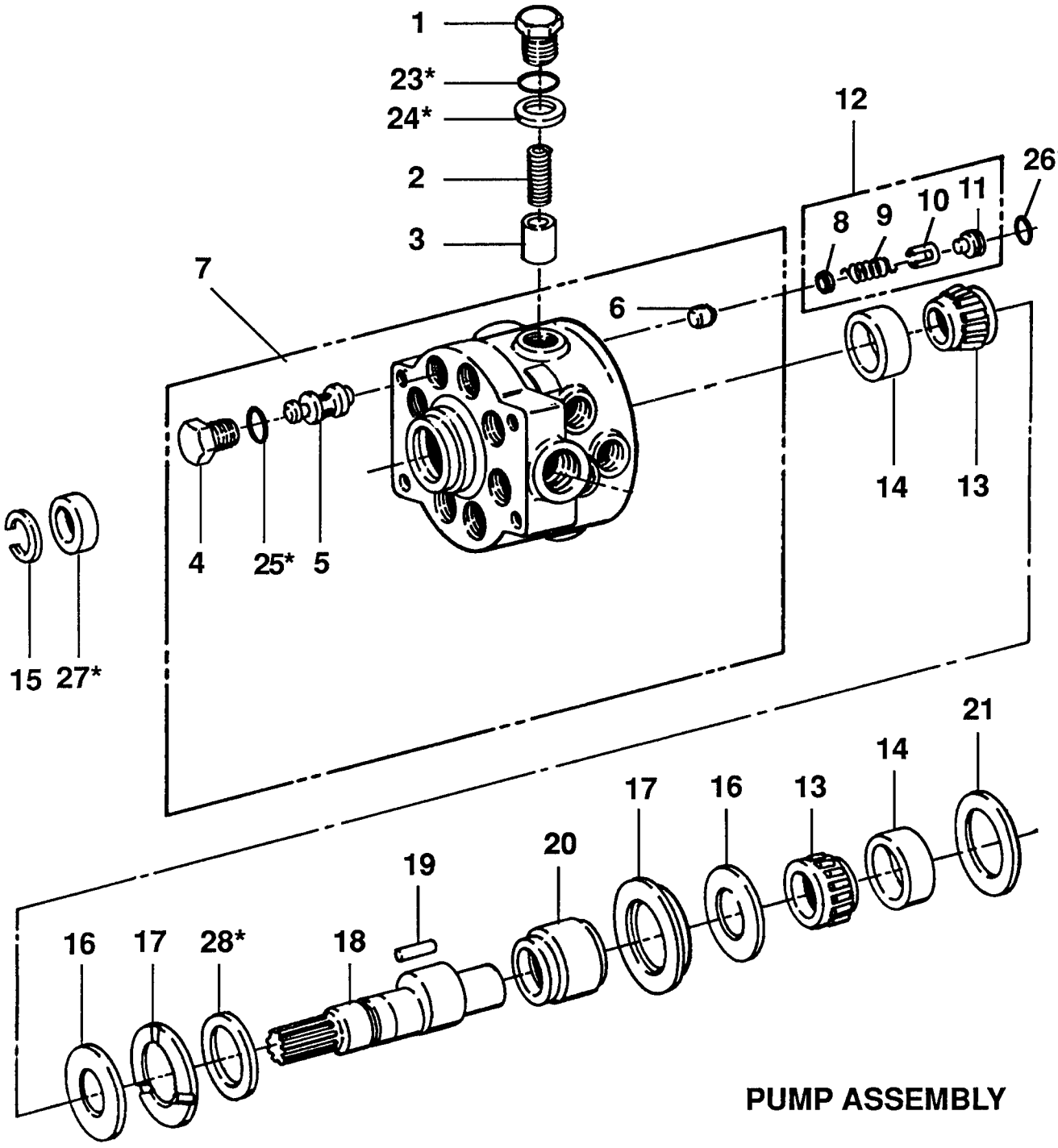
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			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. 9/17/91 | PART NO. 01-007000



PUMP ASSEMBLY

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

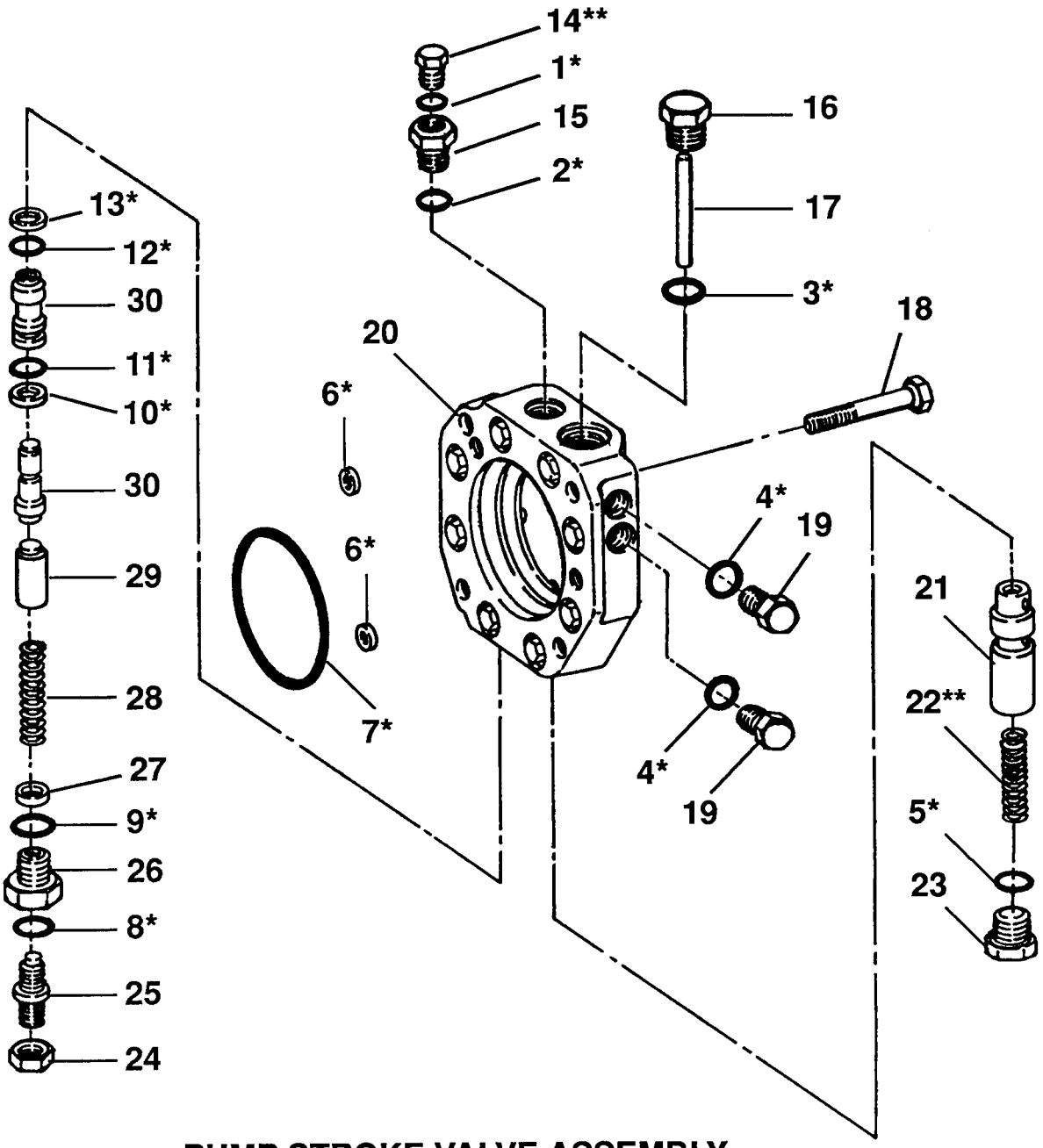
TITLE	HYDRAULIC PUMP (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 9/17/91	PART NO. 01-007000	PLATE NO. D08.01	

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



PUMP STROKE VALVE ASSEMBLY

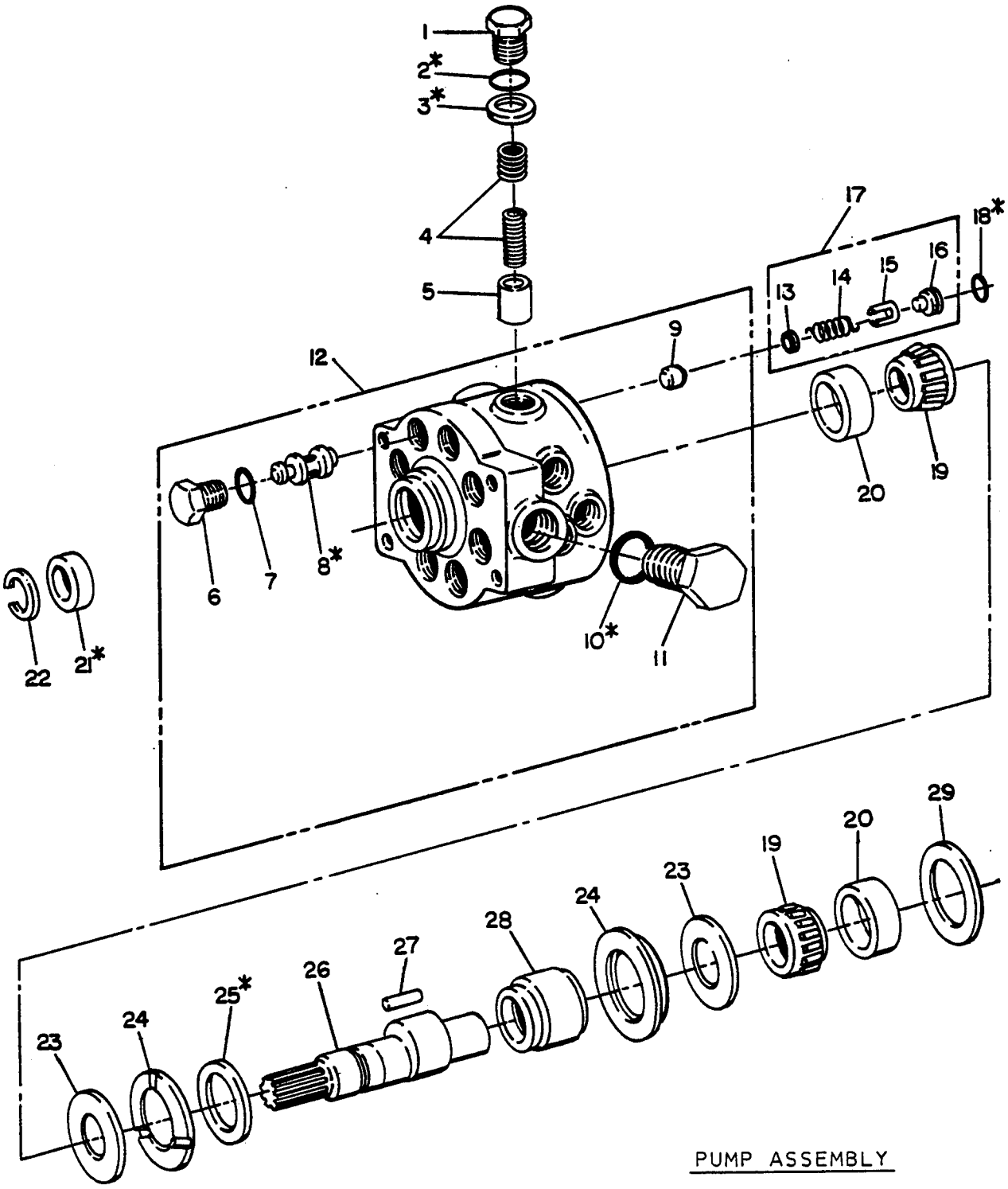
Note: Items in seal kit identified by an asterisk (*).
Item with double asterisk (**) not used, removal required.

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

0684/0983

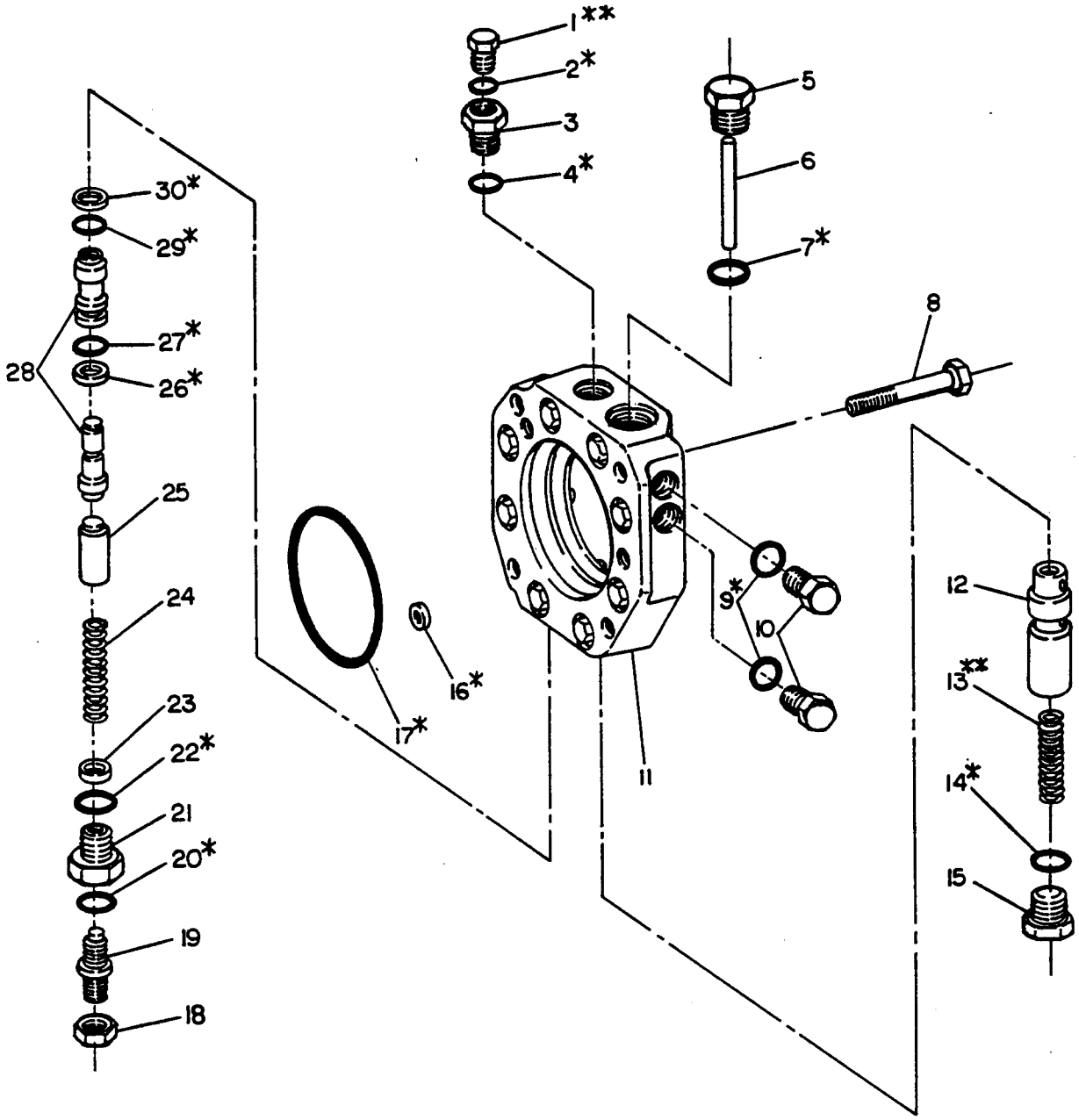
SHEET 1 OF 2

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

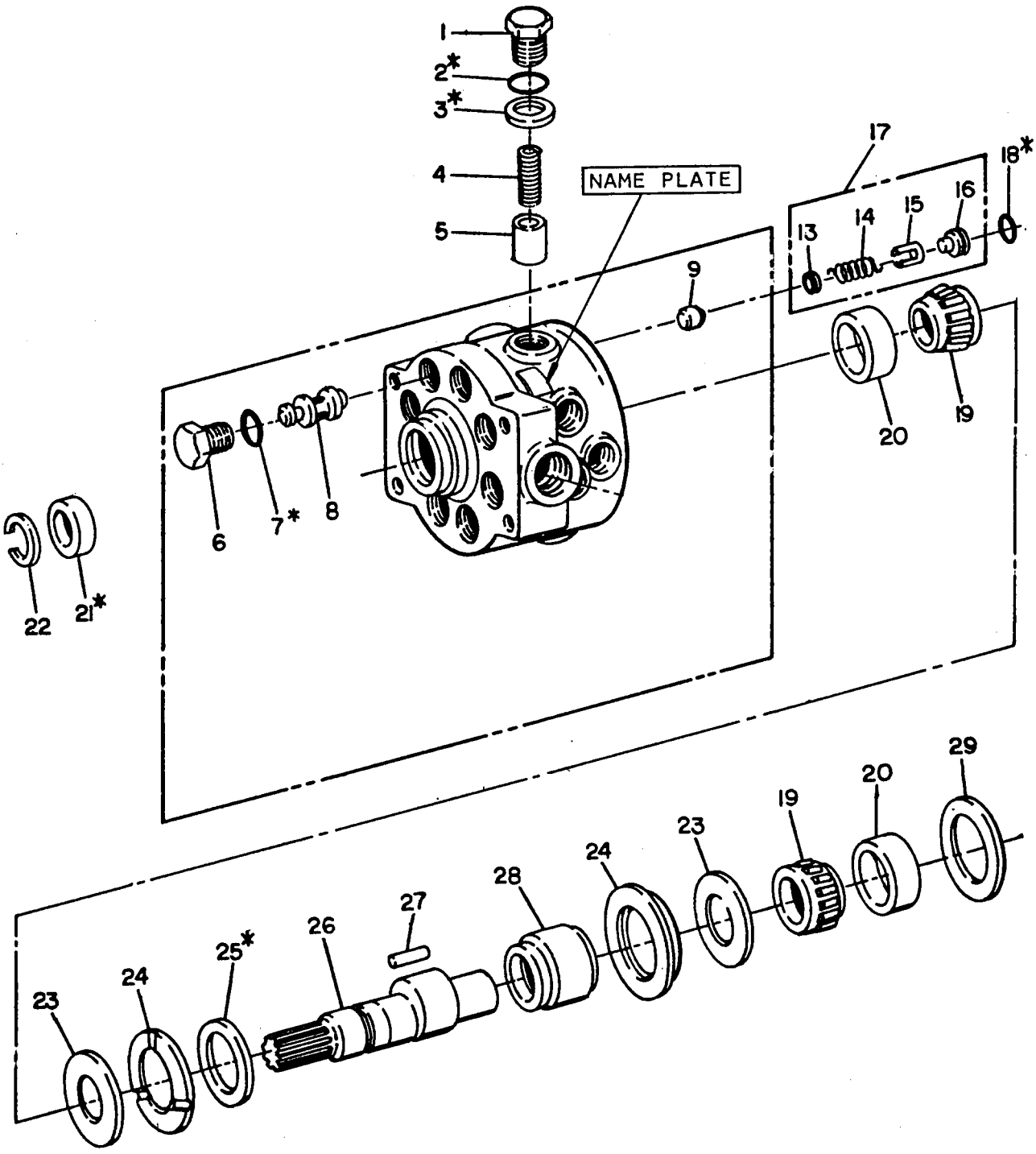
SHEET 2 OF 2

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006600

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-031405		FITTING	8
2*			'O' RING	8
3*			SHIELD	8
4			SPRING	8
5	01-031402		PISTON	8
6			FITTING	8
7*			'O' RING	8
8			INLET VALVE	8
9			BUSHING	8
10				
11				
12			HOUSING	1
13			DISK	8
14			SPRING	8
15			GUIDE	8
16			STOP	8
17			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			RING	1
26			SHAFT	1
27			NEEDLE ROLLER	25
28			BEARING RACE	1
29	01-002624		SHIM (.006)	A.R.
29	01-002625		SHIM (.010)	A.R.
*			SEAL KIT	1

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006900



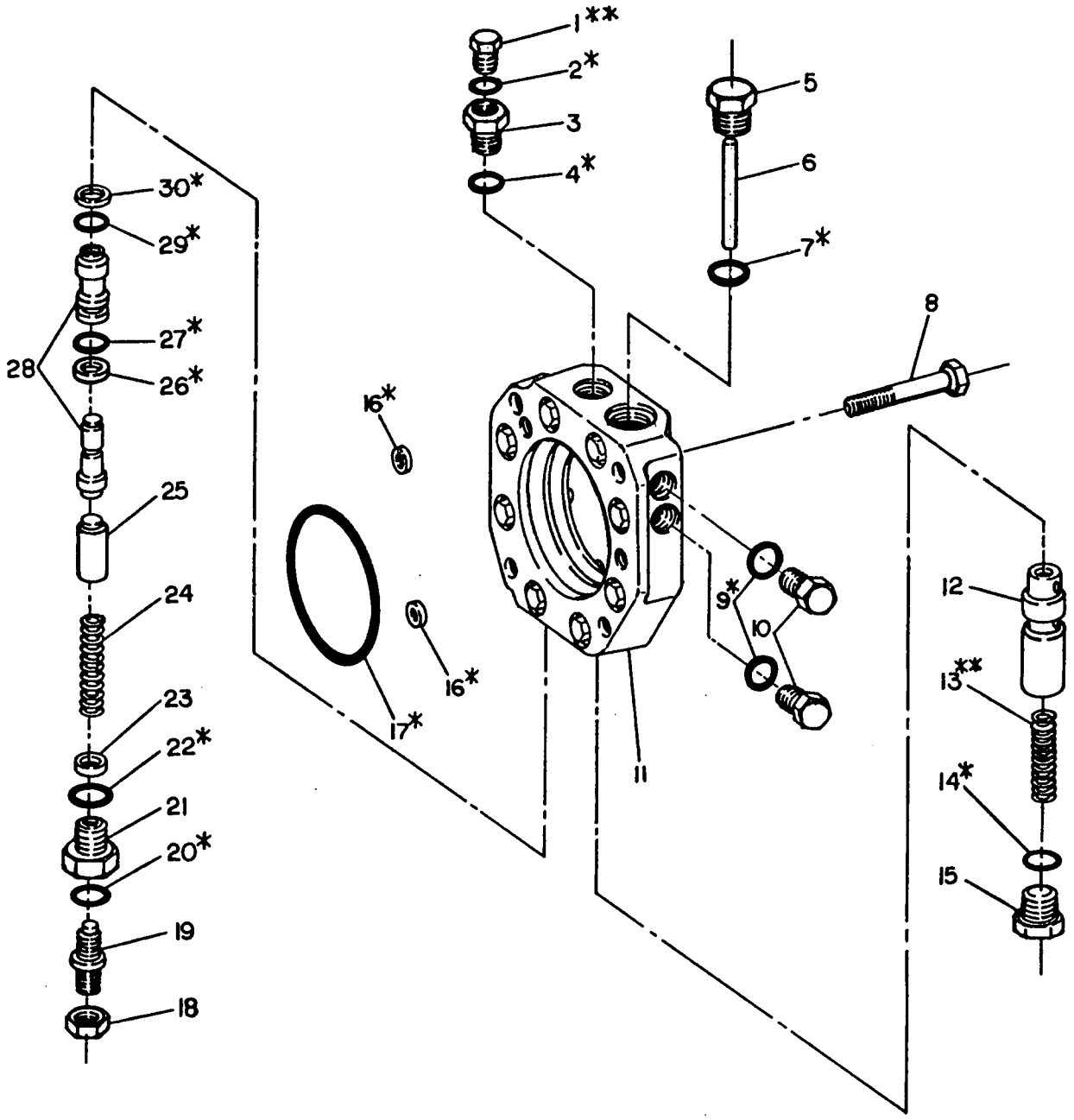
PUMP ASSEMBLY

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006900

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	2
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 (COMPENSATED)	1
29			'O' RING	1
30			BACK-UP RING	1
*			SEAL KIT	1

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006900



PUMP STROKE VALVE ASSEMBLY

NOTE:

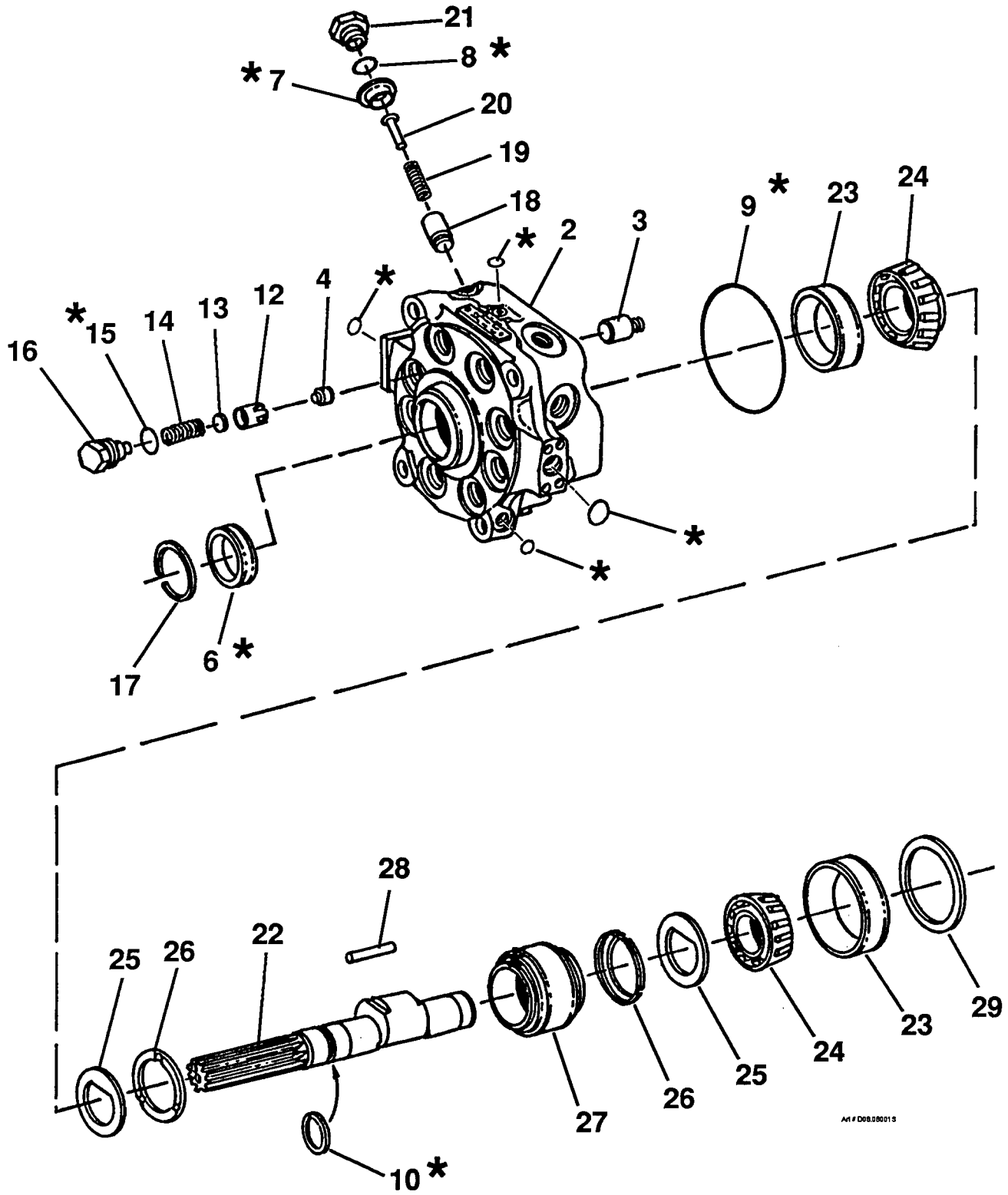
**NOT USED, REQUIRES REMOVAL

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006900

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	01-018600		PUMP ASSEMBLY, HYDRAULIC (HPR 50) Pump is marked "2472 R115311" **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 asterisks, 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



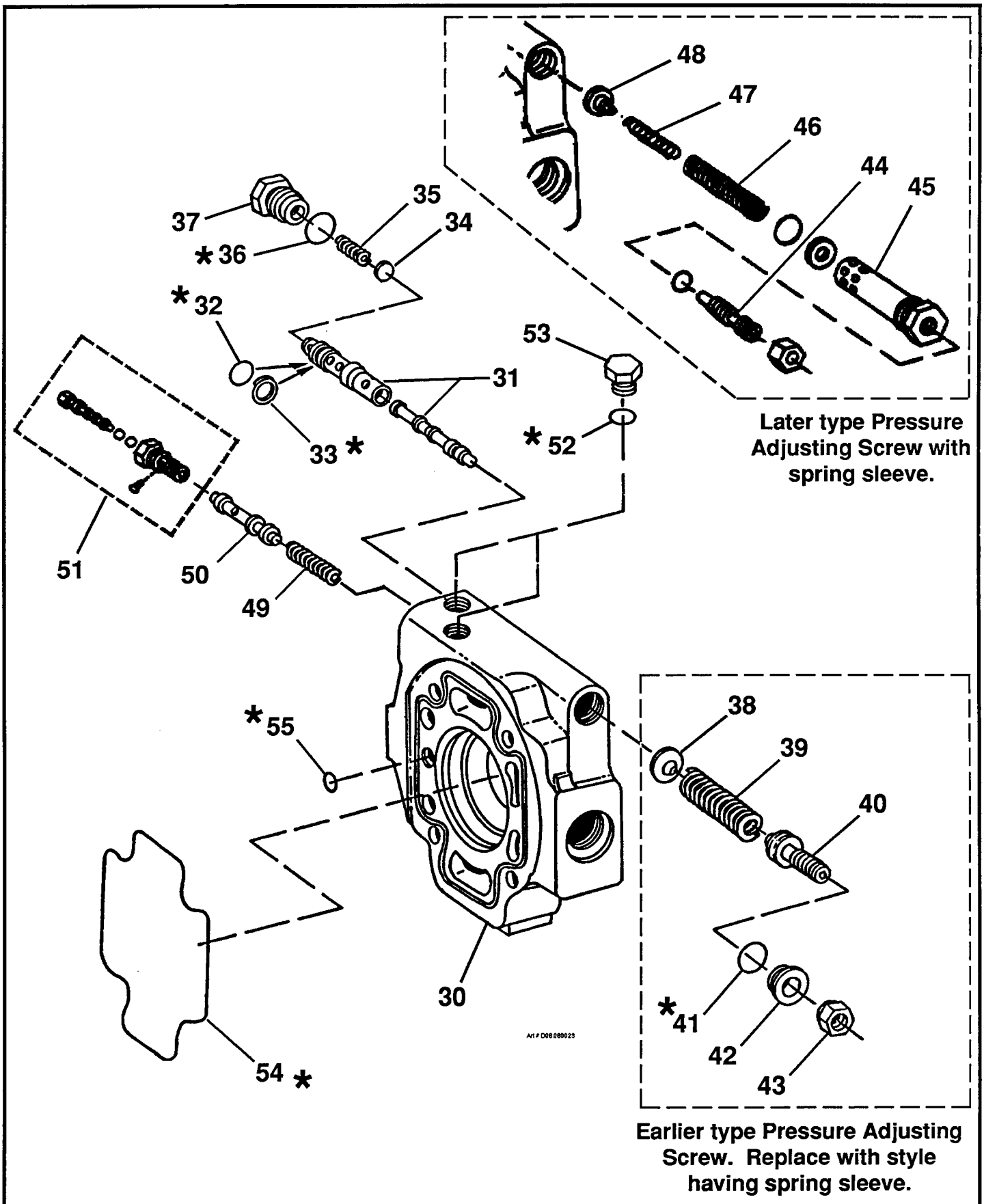
TITLE	HYDRAULIC PUMP ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 09/27/91	PART NO. 01-018600	PLATE NO. D08.08	

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



Later type Pressure Adjusting Screw with spring sleeve.

Earlier type Pressure Adjusting Screw. Replace with style having spring sleeve.

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

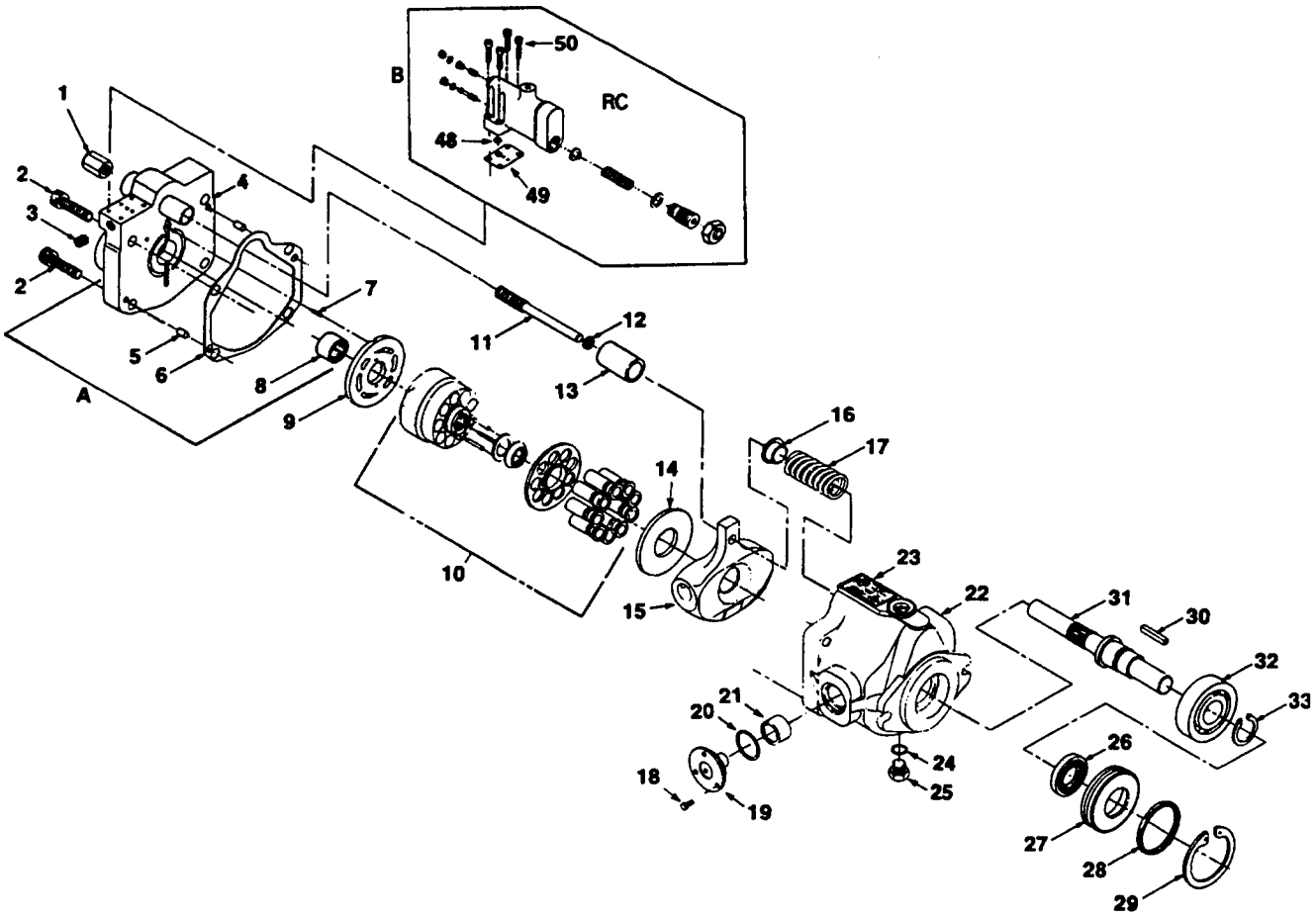
SIMON AERIALS INC.	REV. 09/27/91	PART NO. 01-018600	PLATE NO. D08.08

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			NUT, LOCK	1
2			BOLT, SOCKET HEAD	4
3			PLUG	1
A			END CAP KIT	1
4			CAP, END	1
5			PIN, END CAP LOCATING	2
6			GASKET, END CAP	1
7			PIN, VALVE PLATE LOCATING	1
8			BEARING, REAR	1
9			PLATE, VALVE	1
10			CYLINDER BLOCK KIT	1
11			SCREW, FLOW ADJUSTMENT	1
12			O-RING	1
13			CYLINDER, CONTROL	1
14			PLATE, THRUST	1
15			SWASHPLATE	1
16			RETAINER, SPRING	1
17			SPRING	1
18			BOLT, SOCKET HEAD	6
19			TRUNNION	2
20			O-RING	2
21			BEARING, JOURNAL	2
22			HOUSING	1
23			PLATE, NAME	1
24			O-RING	1
25			PLUG	1
26			SEAL, SHAFT LIP	1
27			RETAINER, SEAL	1
28			O-RING	1
29			RING, RETAINING	1
30			KEY	1
31			SHAFT	1
32			BEARING, FRONT	1
33			RING, RETAINING	1
B			CONTROL VALVE KIT	1
48			O-RING	1
49			GASKET	1
50			BOLT, SOCKET HEAD	4

TITLE: HYDRAULIC PUMP, SUNDSTRAND L15

PLATE NO. D08.10 | **SIMON AERIALS INC.** ORIGIN 08/29/90 | PART NO. 01-099600



TITLE	HYDRAULIC PUMP, SUNDSTRAND L15		
SIMON AERIALS INC. ORIGIN 08/29/90		PART NO. 01-099600	PLATE NO. D08.10

PARTS LIST

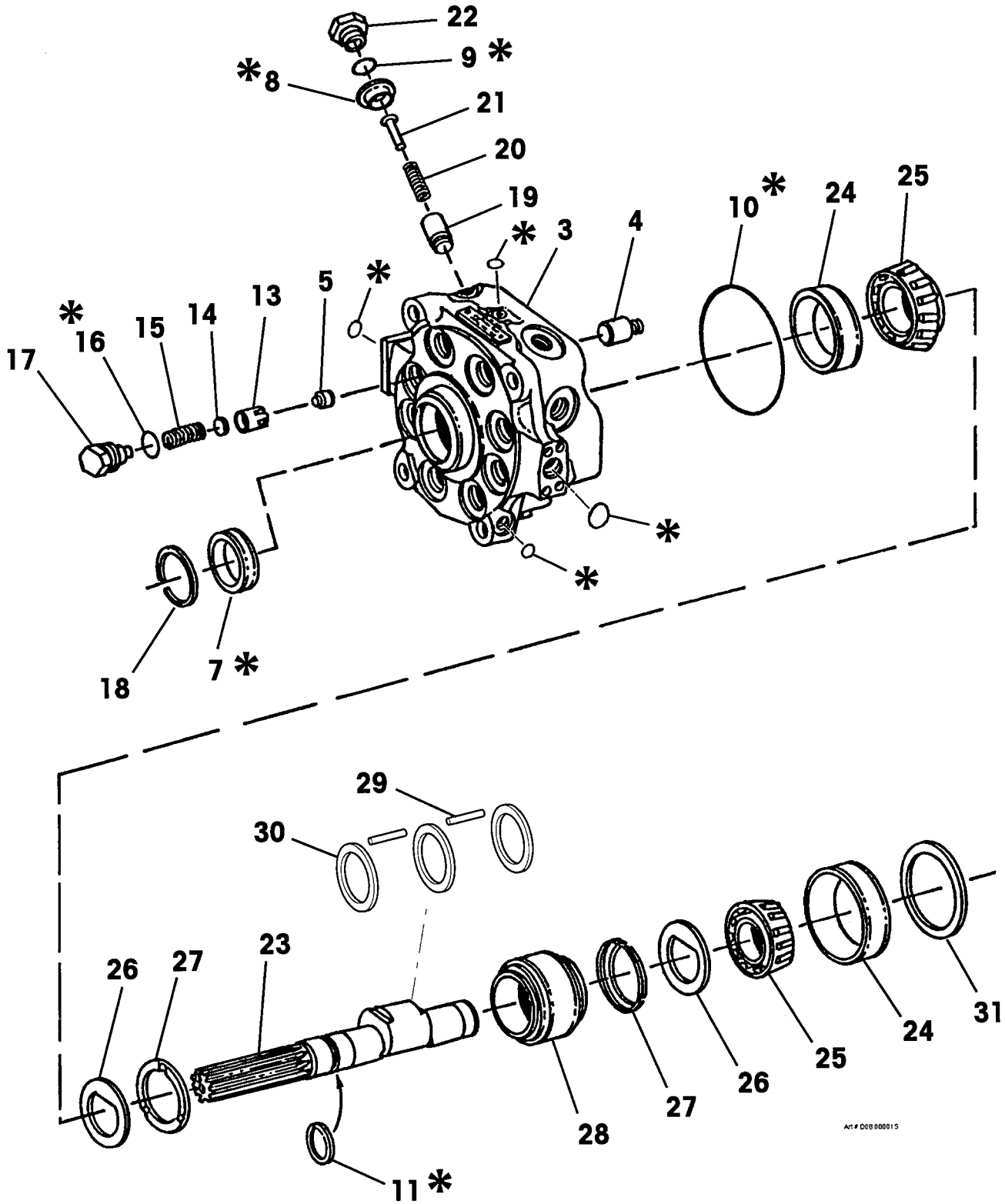
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PUMP ASSEMBLY, HYDRAULIC	1
			Note: These are "Type 2" pumps, with unitized control valve design.	
	01-206900		HPR 40 (marked "*ROPV **312** XXXXXX*" and "24 **71** R11531")	
	01-019500		HPR 50 (marked "*ROPV **322** XXXXXX*" and "24 **72** R11531")	
	01-018700		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. 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 HYDRAULIC PUMP ASSEMBLY					
PART NO.	REV. A	DATED 08 OCT., 1996	SECTION D08.	PLATE NO. 13	PAGE 01	

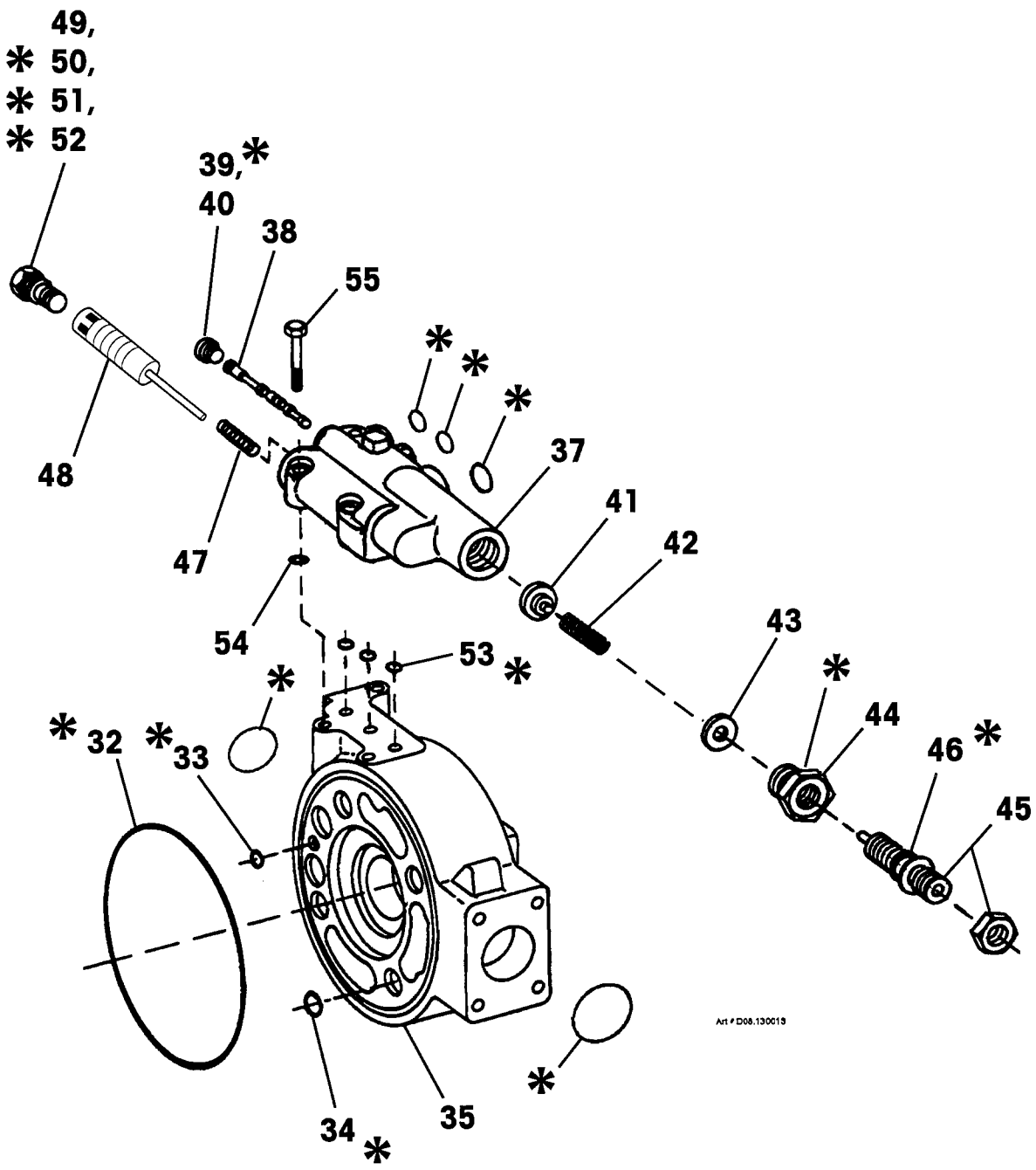
PARTS LIST

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 D08. | PLATE NO. 13 | PAGE 02 | REV. A | DATED 08 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. 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 HYDRAULIC PUMP ASSEMBLY (UNITIZED CONTROL VALVE)					
	PART NO.	REV. A	DATED 08 OCT., 1996	SECTION D08.	PLATE NO. 13	PAGE 02

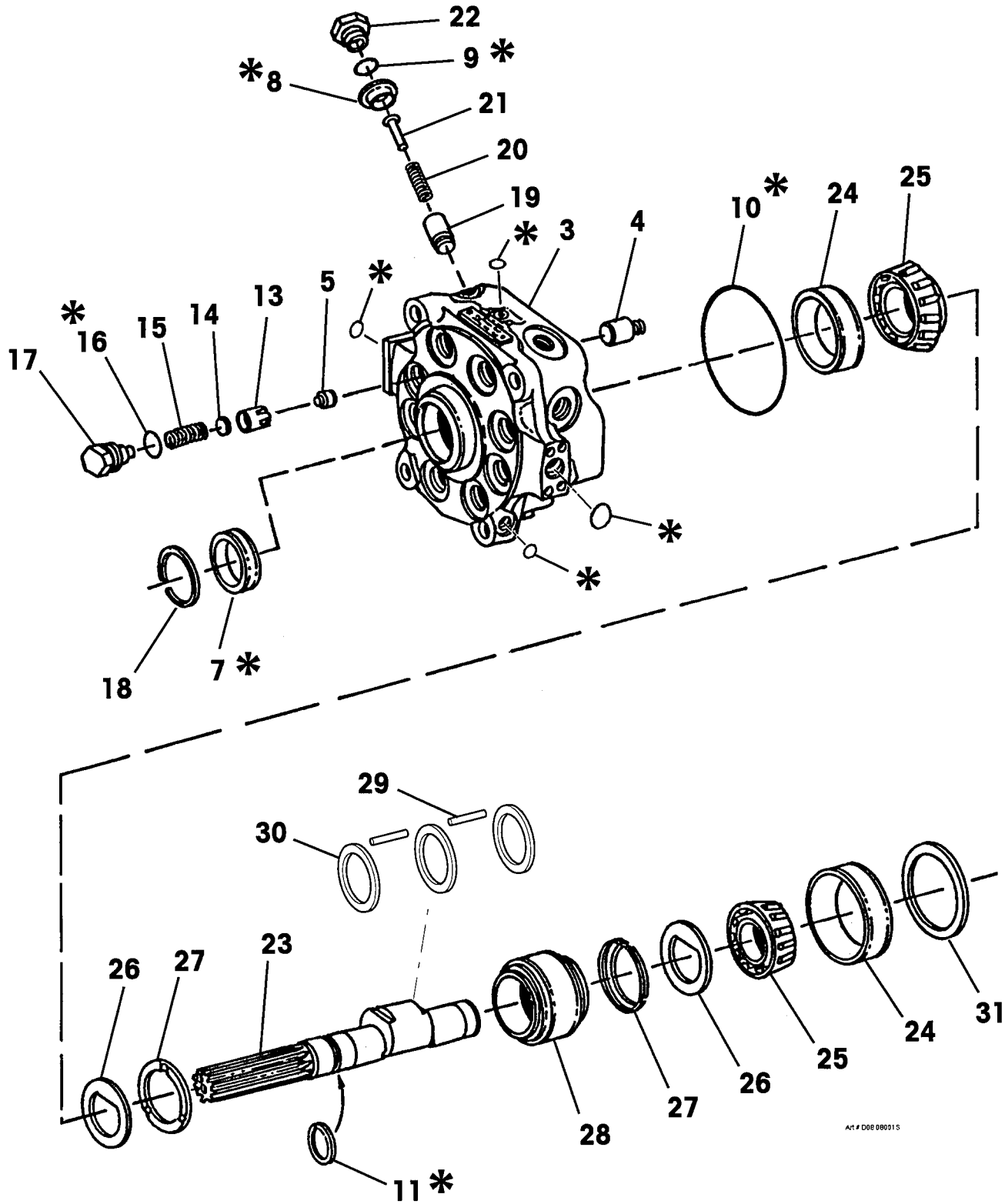
PARTS LIST

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) (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) (**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) (**Obsolete**. Use 06-216200 and 06-214400.)	
			Pressure Fittings:	
58	06-213800		FLANGE KIT, PRESSURE FITTING (16 CFHS-87989) (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 D08. | PLATE NO. 13 | PAGE 03 | REV. A | DATED 08 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



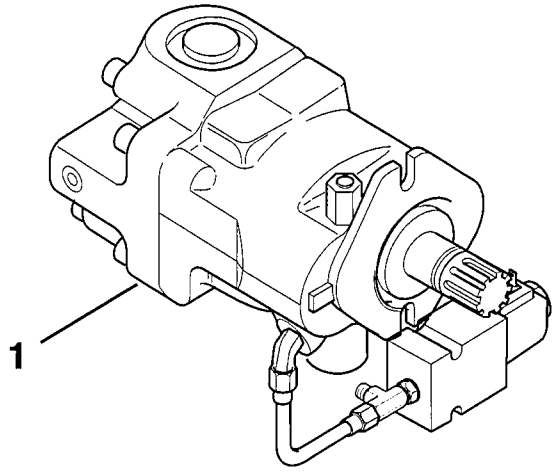
Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE HYDRAULIC PUMP ASSEMBLY					
	PART NO.	REV. A	DATED 08 OCT., 1996	SECTION D08.	PLATE NO. 13	PAGE 03

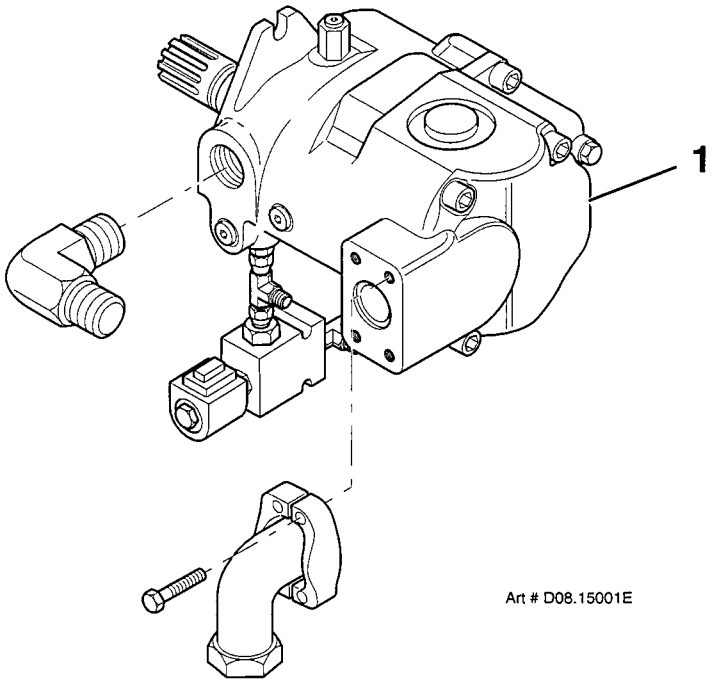
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PUMP ASSEMBLY, HYDRAULIC	1
	01-236900		50 c.c./ rev. output (Nameplate is marked "PAVC 65 X **3224**")	
	01-237800		65 c.c./ rev. output (Nameplate is marked "PAVC 65 X **3232**")	
	01-239800		65 c.c./ rev. output , 3500 psi capacity (Nameplate is marked "PAVC 65 X **3266**")	

TITLE HYDRAULIC PUMP ASSEMBLY

PLATE NO.			PART NO.
D08.15	**SIMON AERIALS INC.**	NEW 24 JAN., 1996	





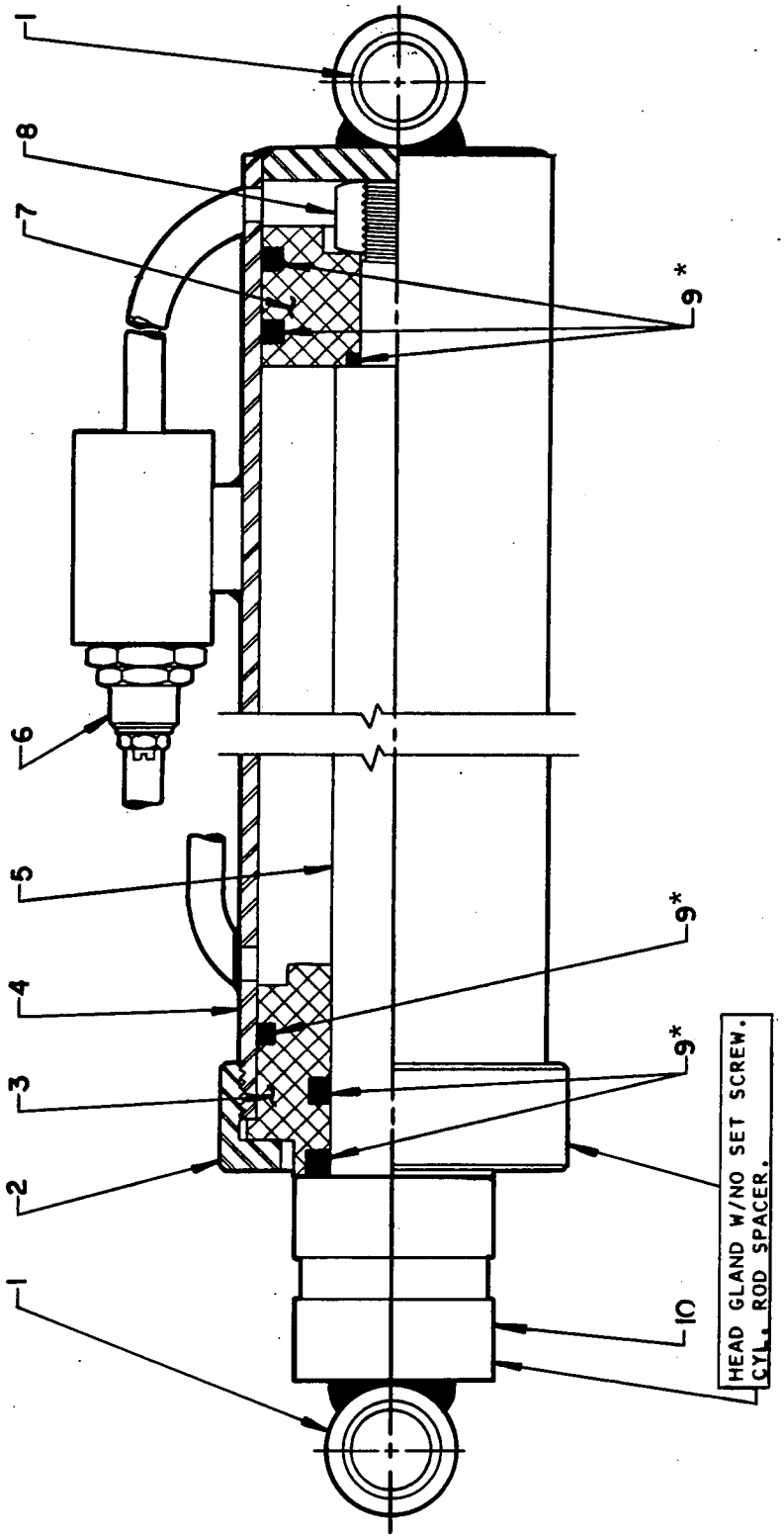
Art # D08.15001E

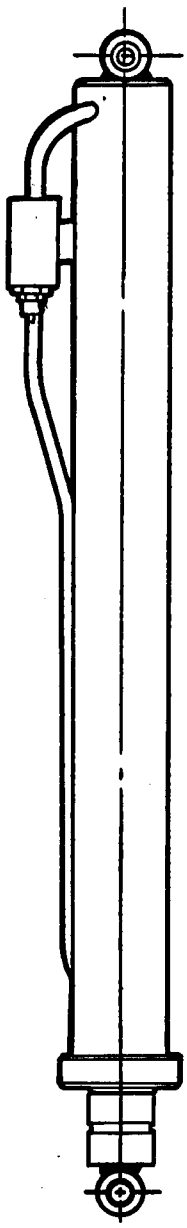
TITLE	HYDRAULIC PUMP ASSEMBLY	
SIMON AERIALS INC. NEW 24 JAN., 1996	PART NO.	PLATE NO. D08.15

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			BUSHING	4
2			RETAINING NUT	1
3			HEAD GLAND	1
4			CASE	1
5			ROD	1
6	04-021402		HOLDING VALVE	1
7			PISTON	1
8			PISTON NUT	1
9	04-004201		SEAL KIT	1
10	SBD-205891-5		SPACER	1

DESCRIPTION	PART NO.
LIFT CYLINDER	04-004200-1





NOTE:
* SEAL KIT P/N 04-004201

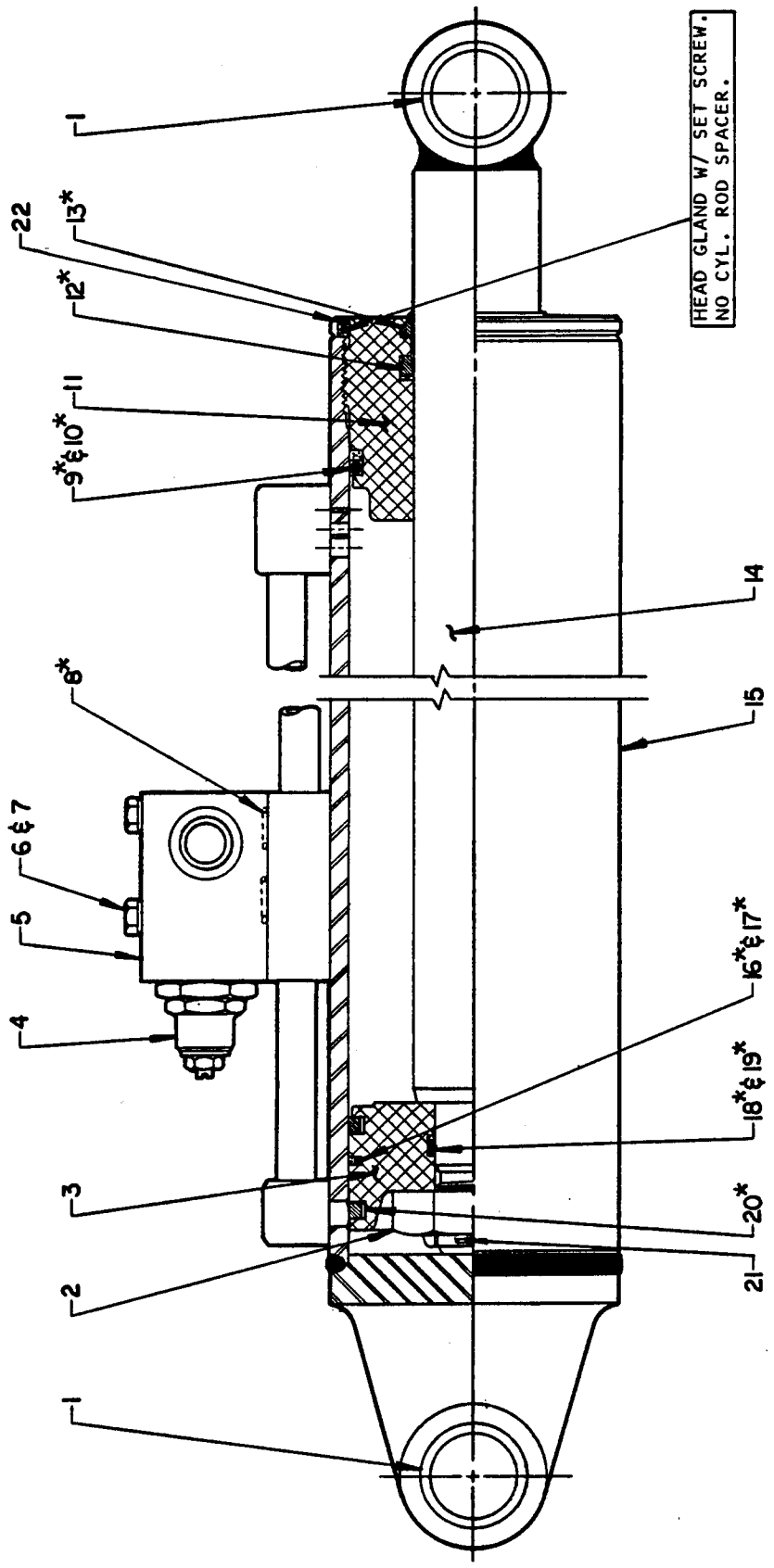
0284/0281

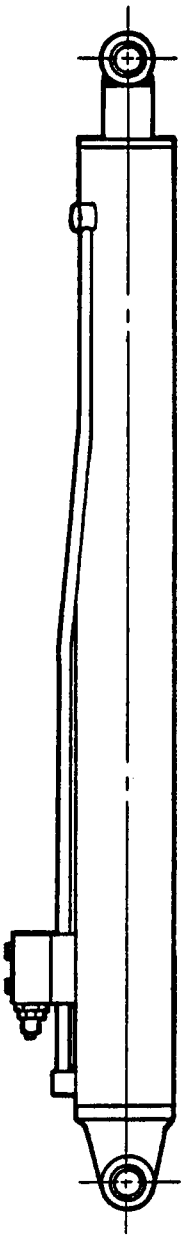
DESCRIPTION	PART NO.
LIFT CYLINDER	04-004200-1

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			BUSHING	4
2			PISTON NUT	1
3			PISTON	1
4	04-021402		HOLDING VALVE	1
5			VALVE BLOCK	1
6			HEX HEAD CAP SCREW	4
7			LOCKWASHER	4
8*			'O' RING	2
9*			'O' RING	1
10*			BACK-UP RING	1
11			HEAD GLAND	1
12*			ROD SEAL	1
13*			WIPER	1
14			ROD	1
15			CASE	1
16*			PISTON SEAL	1
17*			'O' RING	1
18*			'O' RING	1
19*			BACK-UP RING	1
20*			PISTON RING	2
21			COTTER KEY	1
22			SET SCREW	1
*	04-009801		SEAL KIT	1

DESCRIPTION	PART NO.
LIFT CYLINDER	04-009800





NOTE:
* SEAL KIT P/N 04-009801

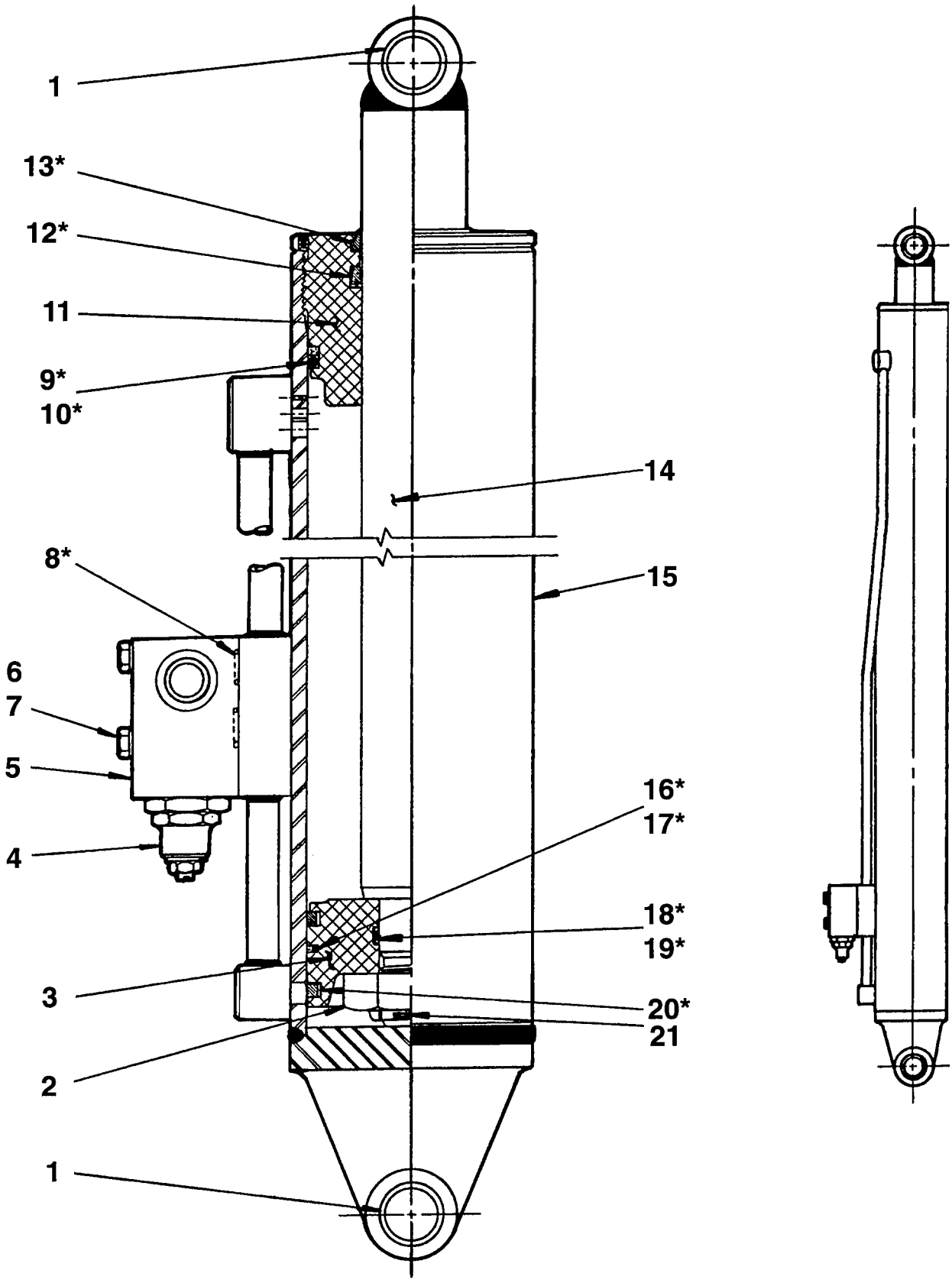
0284/0284

DESCRIPTION	PART NO.
LIFT CYLINDER	04-009800

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BUSHING	4
2			NUT, PISTON	1
3			PISTON	1
4			VALVE, HOLDING	1
5			VALVE BLOCK ASSEMBLY	1
6			CAPSCREW, HEX HEAD	4
7			WASHER, LOCK	4
8*			O-RING	2
9*			O-RING	1
10*			RING, BACK-UP	1
11			GLAND, HEAD	1
12*			SEAL, ROD	1
13*			WIPER	1
14			ROD	1
15			CASE	1
16*			SEAL, PISTON	1
17			O-RING	1
18*			O-RING	1
19*			RING, BACK-UP	1
20*			RING, PISTON	2
21			KEY, COTTER	1
*	04-001801		SEAL KIT	1

TITLE	LIFT CYLINDER		
PLATE NO. D09.14	**SIMON AERIALS INC.**	REV. 11/30/90	PART NO. 04-008800

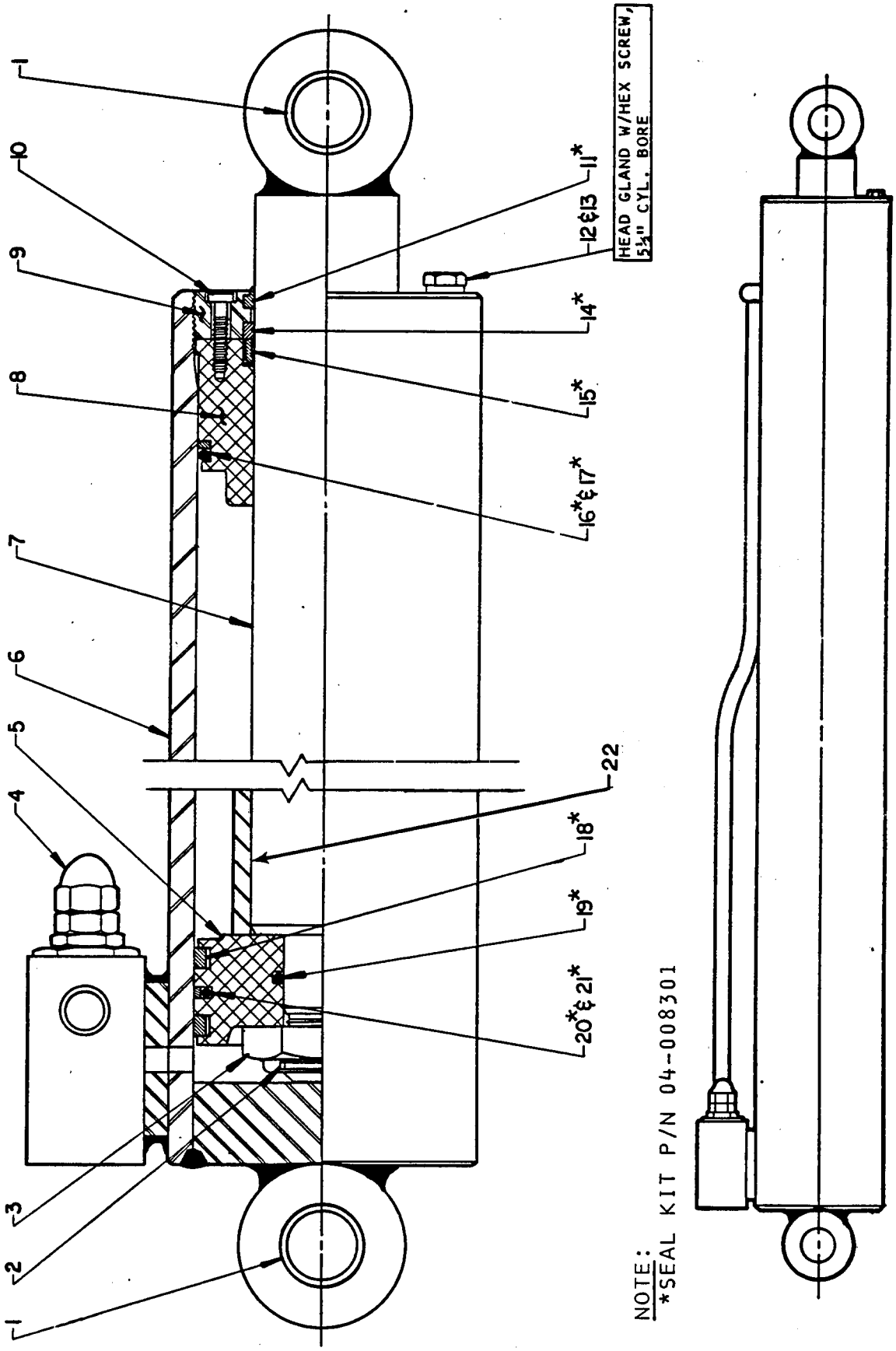


TITLE			
LIFT CYLINDER			
SIMON AERIALS INC. REV. 11/30/90	PART NO. 04-008800	PLATE NO. D09.14	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	04-002318		BUSHING	4
2			COTTER KEY	1
3			PISTON NUT	1
4	01-023900		HOLDING VALVE	1
5	01-008305		PISTON	1
6			CASE	1
7			ROD	1
8	04-008306		HEAD GLAND	1
9			THREAD RING	1
10			SOCKET HEAD CAP SCREW	2
11*			WIPER	1
12			HEX HEAD CAP SCREW	1
13			LOCKWASHER	1
14*			PHENOLIC RING	1
15*			ROD SEAL	1
16*			'O' RING	1
17*			BACK-UP RING	1
18*			PISTON RING	2
19*			'O' RING	1
20*			'O' RING	1
21*			PISTON SEAL	1
22			SPACER	1
*	04-008301		SEAL KIT	1

DESCRIPTION	PART NO.
LIFT CYLINDER	04-008300-1



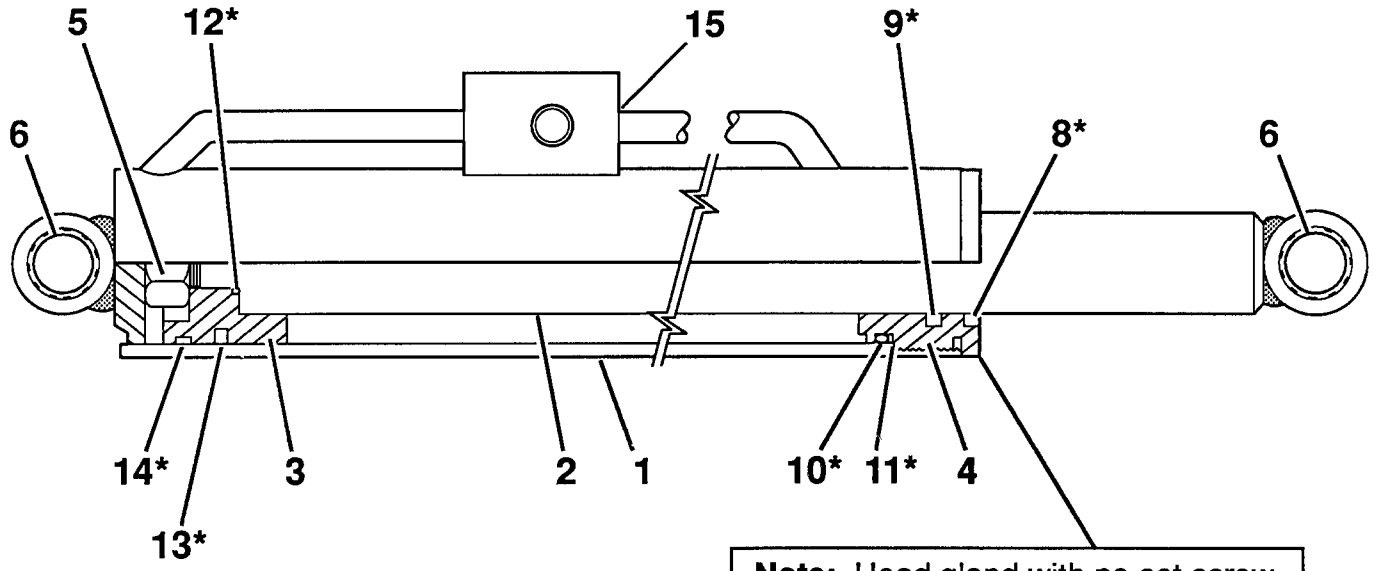
0887/0887

DESCRIPTION	PART NO.
LIFT CYLINDER	04-008300-1

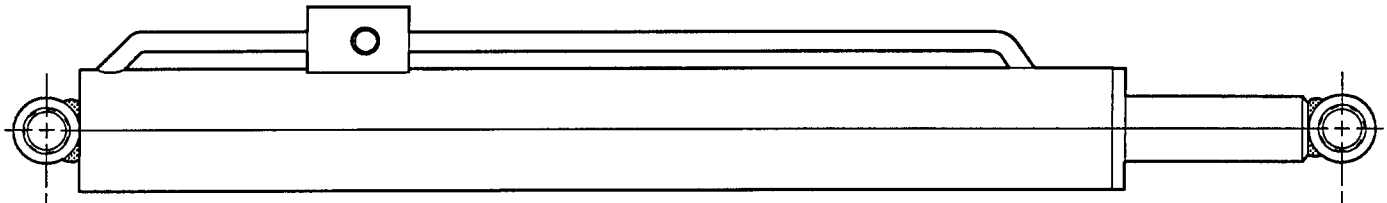
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Identifying features of cylinder 04-027900: 1. Head gland with no set screw.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, PISTON ROD (1-1/2"-12)	1
6			BUSHING	4
7	04-027801		SEAL KIT (not for use with water-glycol hydraulic fluid)	1
			Note: Items in kit identified by asterisk (*).	
8			WIPER, ROD	1
9			SEAL, ROD	1
10			"O"-RING	1
11			WASHER, BACKUP	1
12			"O"-RING	1
13			SEAL, PISTON	1
14			SEAL, PISTON	1
			The following items **are not** part of the cylinder assembly:	
15	04-027902		VALVE, HOLDING (stamped "**CBEA-CAN**", and factory set at 300 PSI [206.8 Bar] [211 Kg/ cm2])	1

TITLE	LIFT CYLINDER, 48.5" (1.23 M) STROKE			
PLATE NO. D09.36	**SIMON AERIALS INC.**	REV. 24 AUG., 1994 THIS SHEET ONLY	PART NO. 04-027800	



Note: Head gland with no set screw.



67.5" (1.71 M) fully retracted,
116" (2.95 M) fully extended (ref.)

Art # D09.34001E

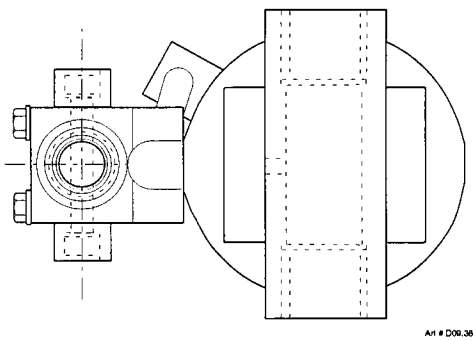
TITLE	LIFT CYLINDER, 48.5" (1.23 M) STROKE		
SIMON AERIALS INC. NEW 10/04/91	PART NO. 04-027800	PLATE NO. D09.36	

PARTS LIST

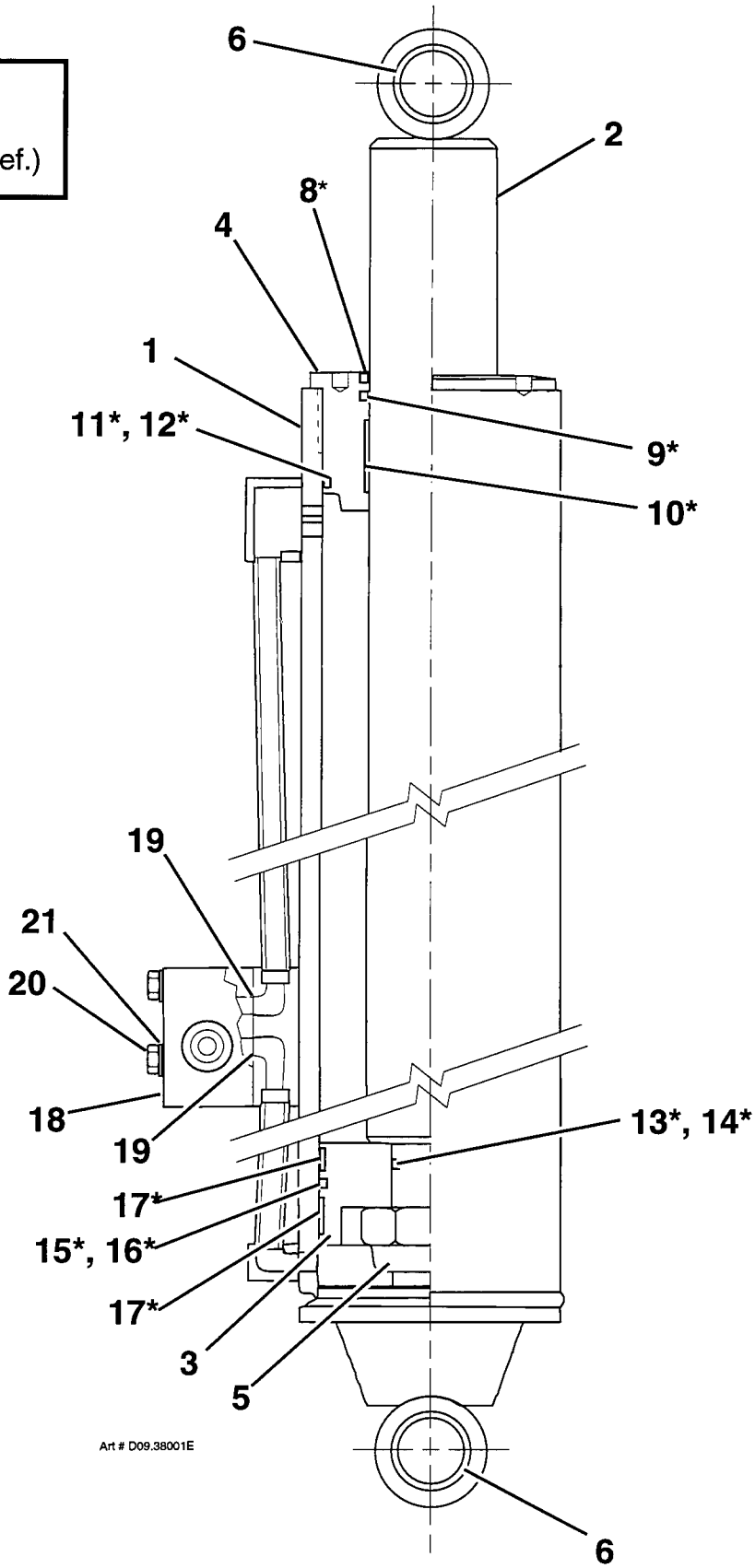
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, PISTON ROD	1
6	04-032906		BUSHING	4
7	04-035701		SEAL KIT (not for use with water-glycol hydraulic fluid)	1
			Note: Items in kit identified by asterisk (*).	
8			WIPER, ROD	1
9			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	3
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			VALVE, COUNTERBALANCE (Holding valve)	1
	01-222000		10:1 (Factory set at 4900 PSI [338 Bar] [344.5 Kg/ cm^2])	
			(For units built after approximately 10 December 1992.	
			Supercedes 04-021402 as replacement on earlier units.)	
	04-021402		25:1 Ratio (Originally supplied on units built through about	
			10 December 1992. Has been superceded by 01-222000.)	

TITLE	LIFT CYLINDER, 48.0" (1.22 M) STROKE			
PLATE NO.	D09.38	**SIMON AERIALS INC.**	REV. 15 FEB., 1995	**PART NO.** 04-035700

Note:
68" (1.73 M) fully retracted,
116" (2.95 M) fully extended (ref.)



View of Base End



TITLE	LIFT CYLINDER, 48.0" (1.22 M) STROKE		
SIMON AERIALS INC. REV. 15 FEB., 1995		PART NO. 04-035700	PLATE NO. D09.38

PARTS LIST

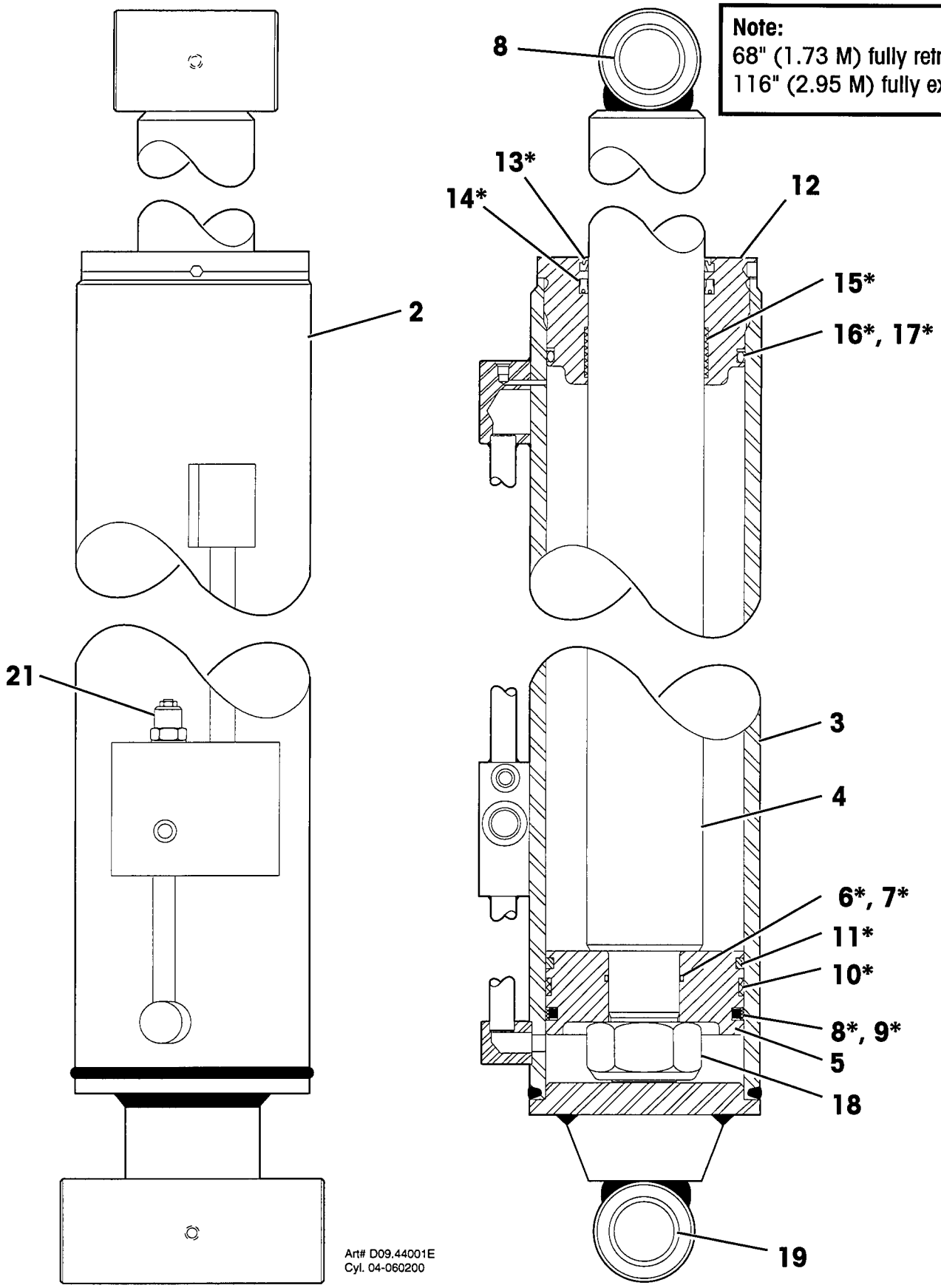
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			LIFT CYLINDER ASSEMBLY	1
2	04-060200		LIFT CYLINDER	1
3			CASE, CYLINDER (Barrel Assembly)	1
4			ROD , CYLINDER	1
5			PISTON ASSEMBLY	1
6	*		"O"-RING	1
7	*		RING, BACKUP	1
8	*		"O"-RING	1
9	*		SEAL, PISTON	1
10	*		RING, PISTON WEAR	1
11	*		RING, PISTON WEAR	1
12			GLAND, HEAD (Rod Bearing Assembly)	1
13	*		WIPER, ROD	1
14	*		SEAL, ROD	1
15	*		RING, ROD WEAR	1
16	*		"O"-RING	1
17	*		RING, BACKUP	1
18			NUT, PISTON ROD	1
19			BUSHING	4
			The following items **are not** part of the cylinder assembly:	
20	04-060201		SEAL KIT (not for use with water-glycol hydraulic fluid) **Note:** Items in kit identified by asterisk (*).	1
21	04-060202		VALVE, COUNTERBALANCE (Holding valve) (marked "CBCH-LJN") (factory set at 5000 psi [345 bar] [351.6 kg/ cm^2])	1

TITLE

LIFT CYLINDER, 48.0" (1.22 M) STROKE

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
D09.	44	01	-	30 APR., 1997	04-060200

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.
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

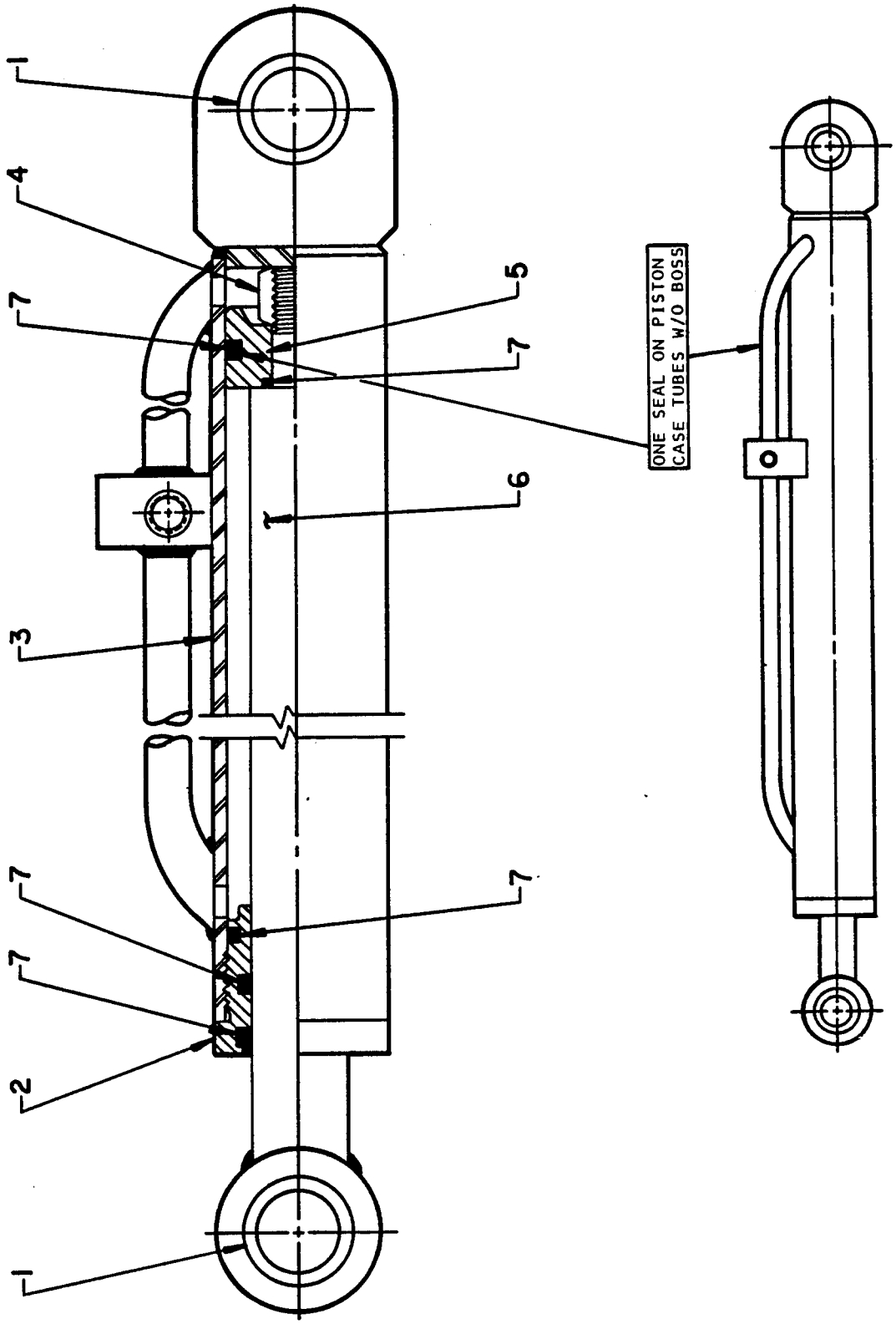
LIFT CYLINDER, 48.0" (1.22 M) STROKE

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
04-060200	-	30 APR., 1997	D09.	44	01

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			BUSHING	3
2			HEAD GLAND	1
3			CASE	1
4			PISTON NUT	1
5			PISTON	1
6			ROD	1
7	04-007101		SEAL KIT	

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-007400



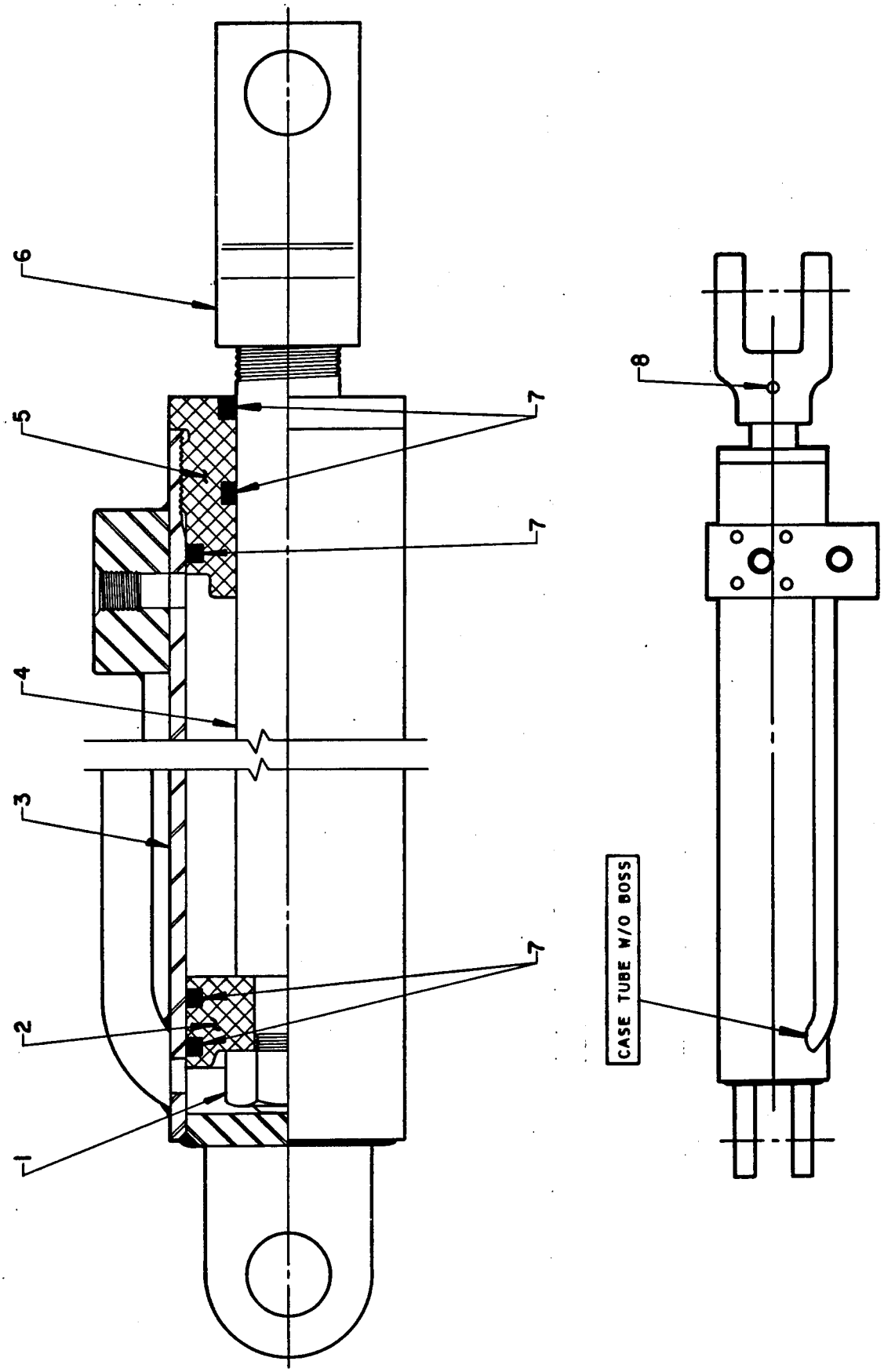
0484/0383

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-007400

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	04-005403		PISTON NUT	1
2			PISTON	1
3			CASE	1
4	04-005402		ROD	1
5			HEAD GLAND	1
6			CLEVIS	1
7	04-005401		SEAL KIT	1
8	07-023003		SOCKET HEAD SET SCREW	1

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-005400



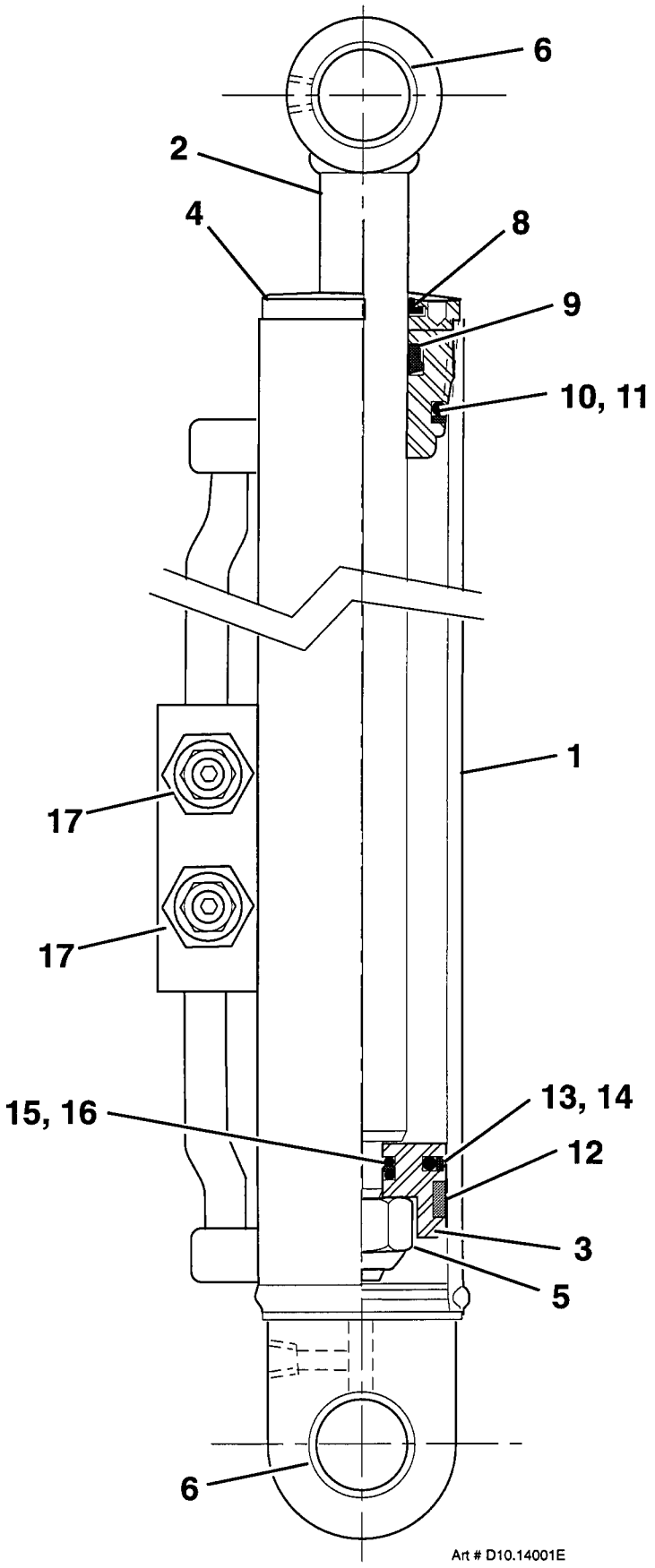
0585/0282

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-005400

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



Art # D10.14001E

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

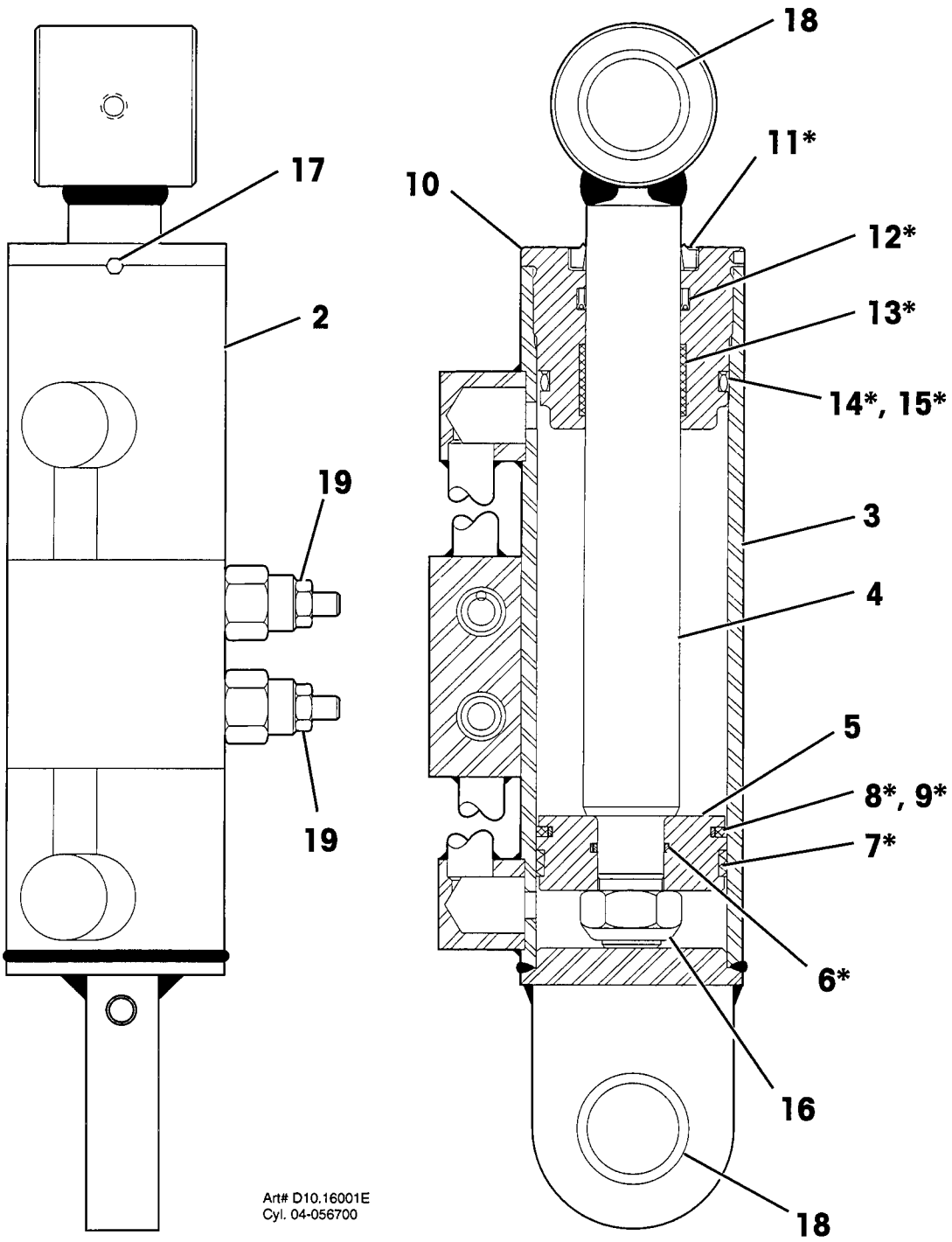
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04056700" stamped on cylinder wall.	
1			MASTER LEVEL CYLINDER ASSEMBLY	1
2	04-056700		MASTER LEVEL CYLINDER	1
3			CASE, CYLINDER (Barrel Assembly)	1
4			ROD, CYLINDER	1
5			PISTON ASSEMBLY	1
6	*		"O"-RING	1
7	*		RING, PISTON WEAR	1
8	*		SEAL, PISTON	1
9	*		WASHER, BACKUP	1
10			GLAND, HEAD (Rod Bearing Assembly)	1
11	*		WIPER, ROD	1
12	*		SEAL, ROD	1
13	*		RING, ROD WEAR	1
14	*		"O"-RING	1
15	*		RING, BACKUP	1
16			NUT, PISTON ROD	1
17			SCREW, ROD BEARING LOCKING	1
18			BUSHING	4
19	04-056302		VALVE, RELIEF (marked "RDDA-LAN") (factory set at 3000 psi [207 bar] [211 kg/ cm^2])	2
			The following item **is not** part of the cylinder assembly:	
20	04-056301		SEAL KIT (not for use with water-glycol hydraulic fluid)	1
			Note: Items in kit identified by asterisk (*).	

TITLE

MASTER LEVEL CYLINDER, 17-3/4" (.45 M) STROKE

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
D10.	16	01	-	30 APR., 1997	04-056700

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

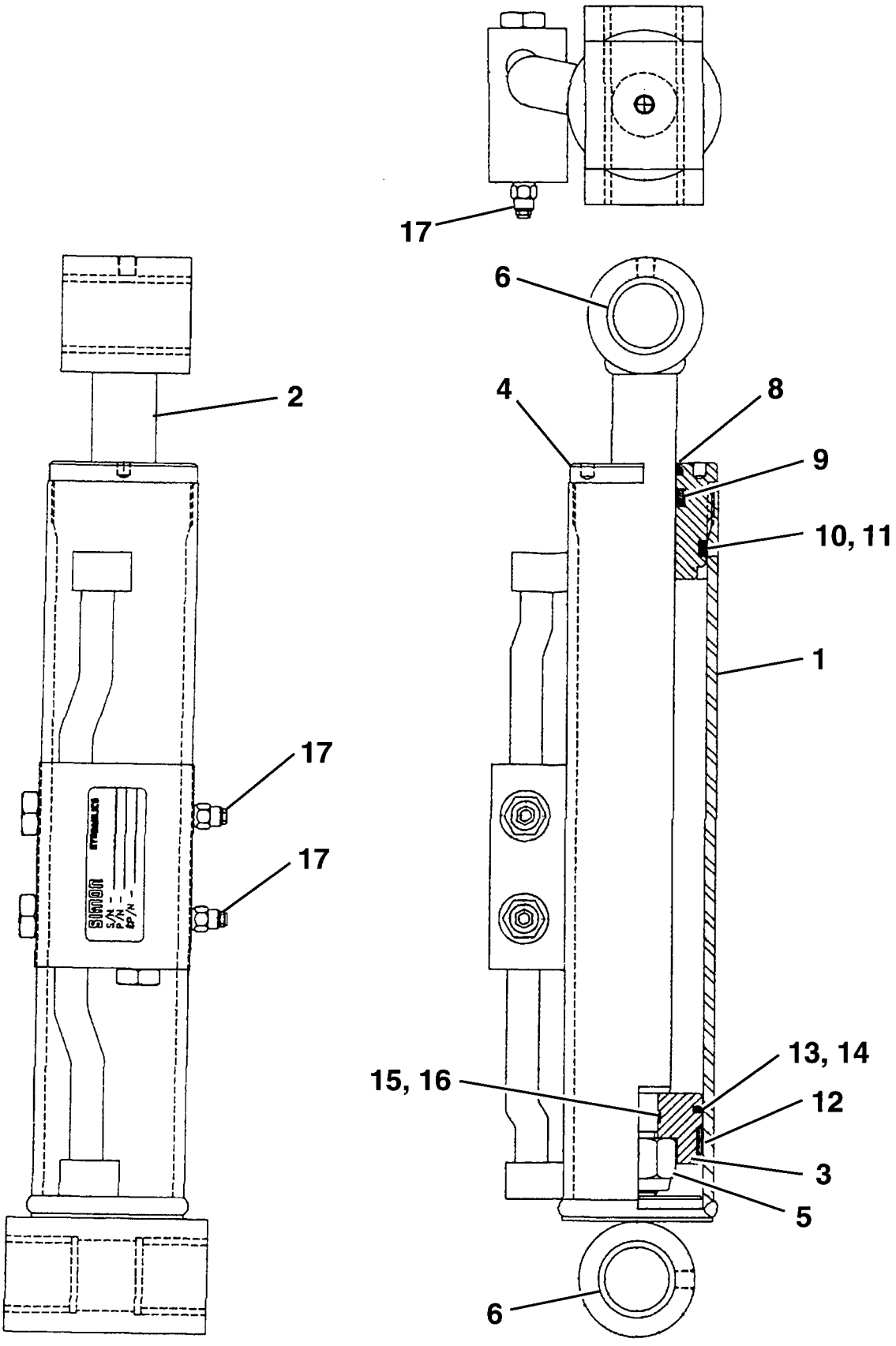


Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE MASTER LEVEL CYLINDER, 17-3/4" (.45 M) STROKE					
	PART NO. 04-056700	REV. -	DATED 30 APR., 1997	SECTION D10.	PLATE NO. 16	PAGE 01

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			
PLATE NO. D10.101	**SIMON AERIALS INC.**	NEW 03 DEC., 1992	PART NO.	04-032600

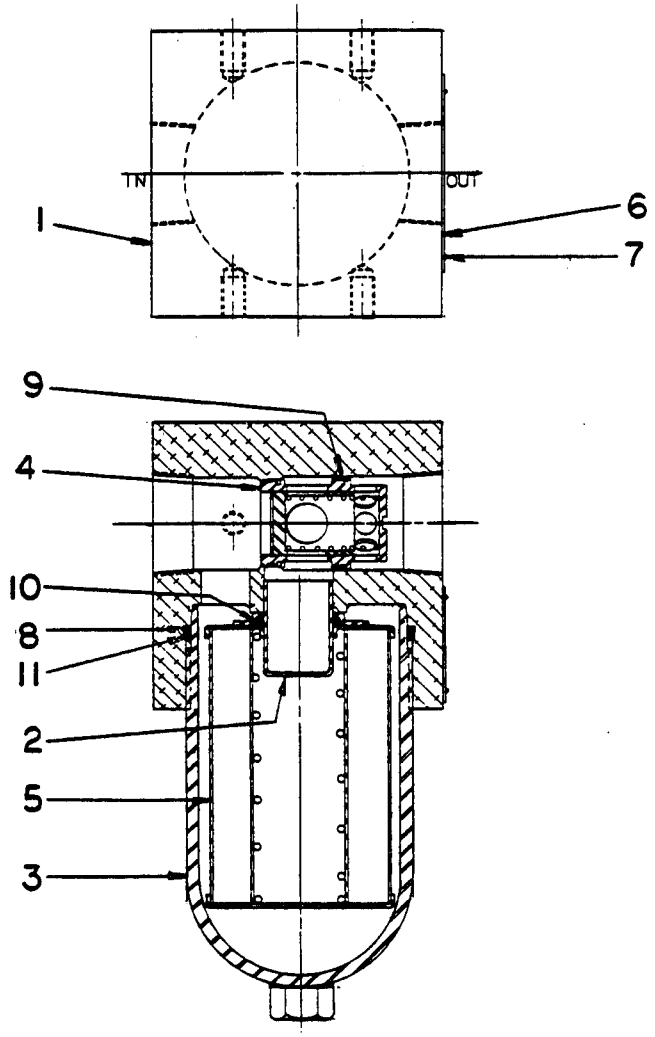


TITLE	MASTER LEVEL CYLINDER, 10" (.25 M) STROKE		
SIMON AERIALS INC. NEW 03 DEC., 1992	PART NO. 04-032600	PLATE NO. D10.101	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			FILTER HEAD	1
2			ELEMENT BUSHING	1
3			BOWL ASSEMBLY	1
4			NON-BYPASS VALVE ASSEMBLY	1
5	01-033813		ELEMENT	1
6			NAMEPLATE	1
7			DRIVE STUDS	4
8			'O' RING	1
9			'O' RING	1
10			'O' RING	1
11			BACK-UP RING	1
	01-033802		SEAL KIT	

DESCRIPTION	PART NO.
HIGH PRESSURE FILTER	01-035100



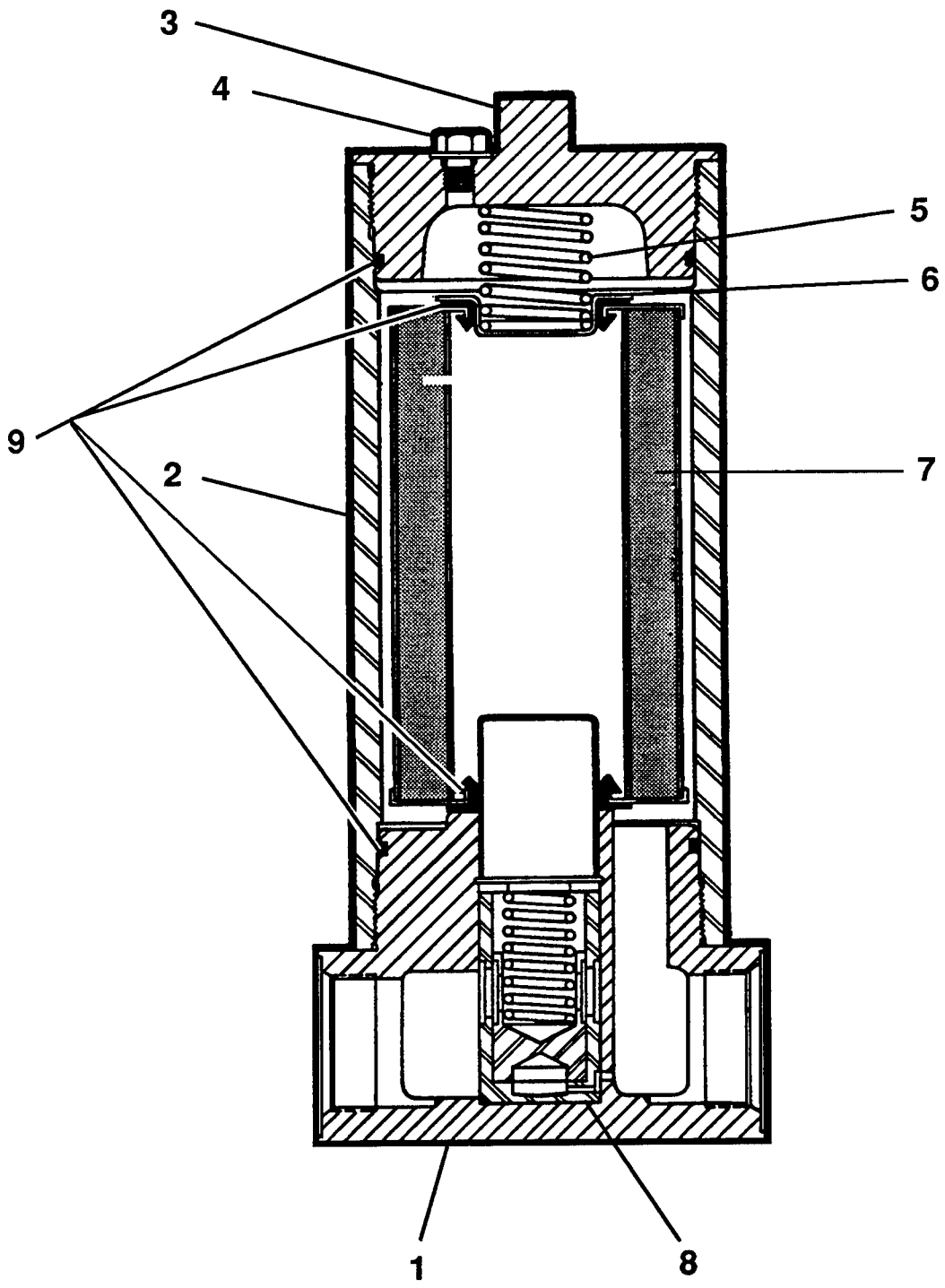
1283

DESCRIPTION	PART NO.
HIGH PRESSURE FILTER	01-035100

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-014006		BLOCK ASSEMBLY, FILTER	1
2			HOUSING, FILTER	1
3			CAP, FILTER HOUSING	1
4			PLUG, AIR BLEED (7/16"-20)	1
5	01-014003		SPRING, COMPRESSION	1
6	01-014004		CUP, COMPRESSION SPRING	1
7	01-014001		ELEMENT, FILTER (10 micron, paper) (Standard element, supplied with filter assembly) **Note: not suitable** for use with water glycol fluid	1
	01-014005		ELEMENT, FILTER (3 micron, paper) (Option) **Note: not suitable** for use with water glycol fluid	1
	01-200700		ELEMENT, FILTER (synthetic material) (Option) **Note: suitable** for use with water glycol fluid	1
8			VALVE ASSEMBLY, NON-BYPASS	1
9	01-014002		SEAL KIT, HIGH PRESSURE FILTER	1

TITLE	HIGH PRESSURE FILTER	
PLATE NO. D11.03	**SIMON AERIALS INC.** REV. 06/25/91	PART NO. 01-014000

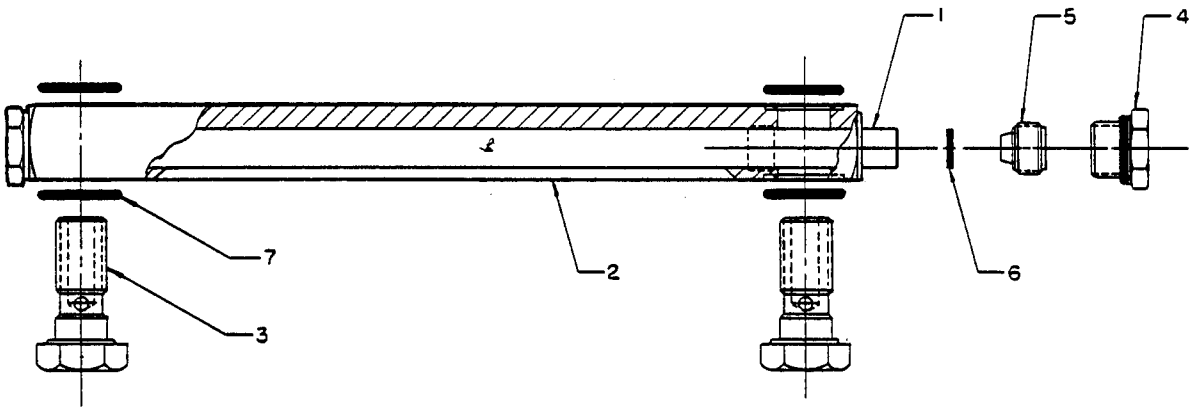


TITLE	HIGH PRESSURE FILTER		
SIMON AERIALS INC. REV. 06/25/91	PART NO. 01-014000	PLATE NO. D11.03	

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



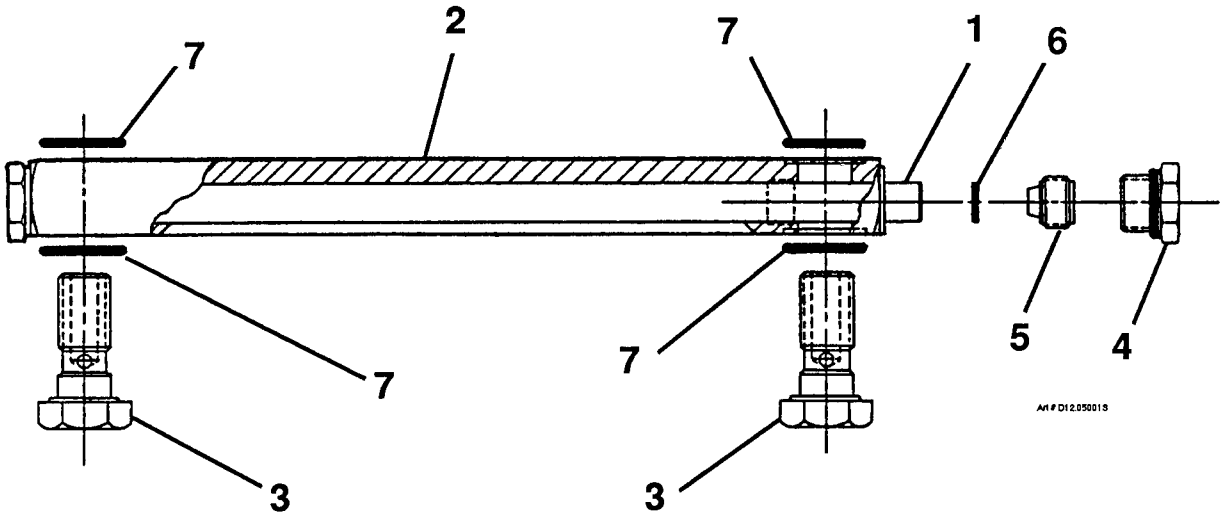
0684/0184

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

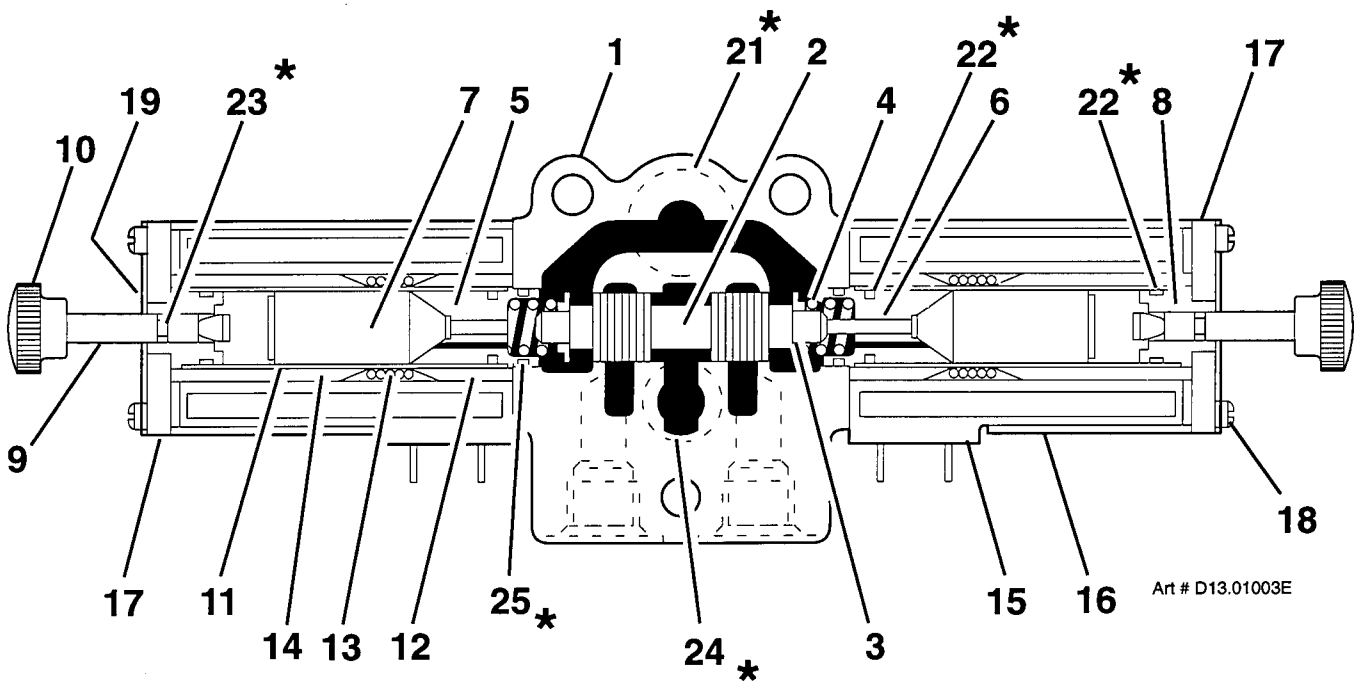


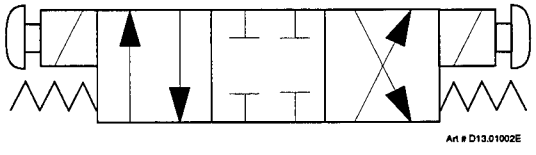
TITLE	SIGHT GAUGE, 14"		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 10-033800	PLATE NO. D12.05	

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. 20 SEP., 1995	PART NO. 01-031700





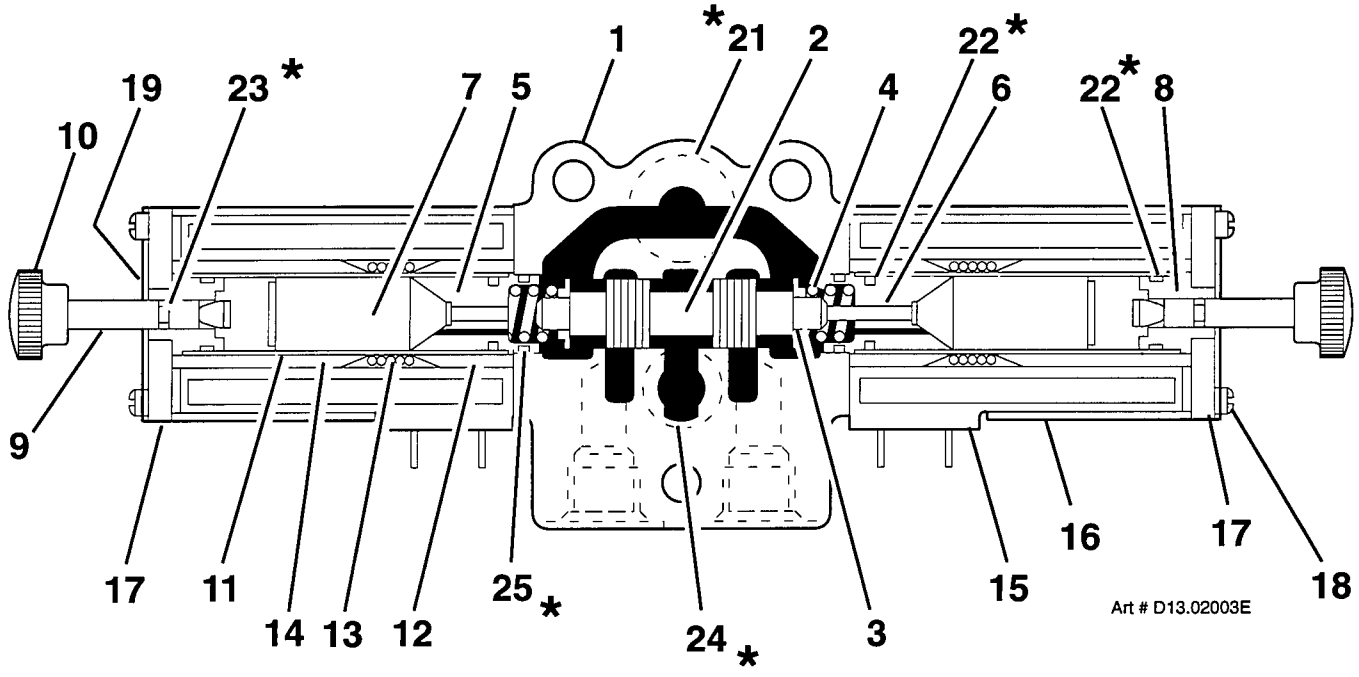
TITLE	4-WAY, 3 POSITION SOLENOID VALVE, CLOSED CENTER SPOOL				
SIMON AERIALS INC.	REV. 20 SEP., 1995	PART NO.	01-031700	PLATE NO.	D13.01

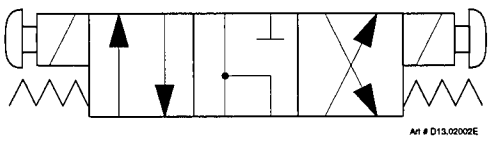
PARTS LIST

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. 20 SEP., 1995 | PART NO. 01-031800





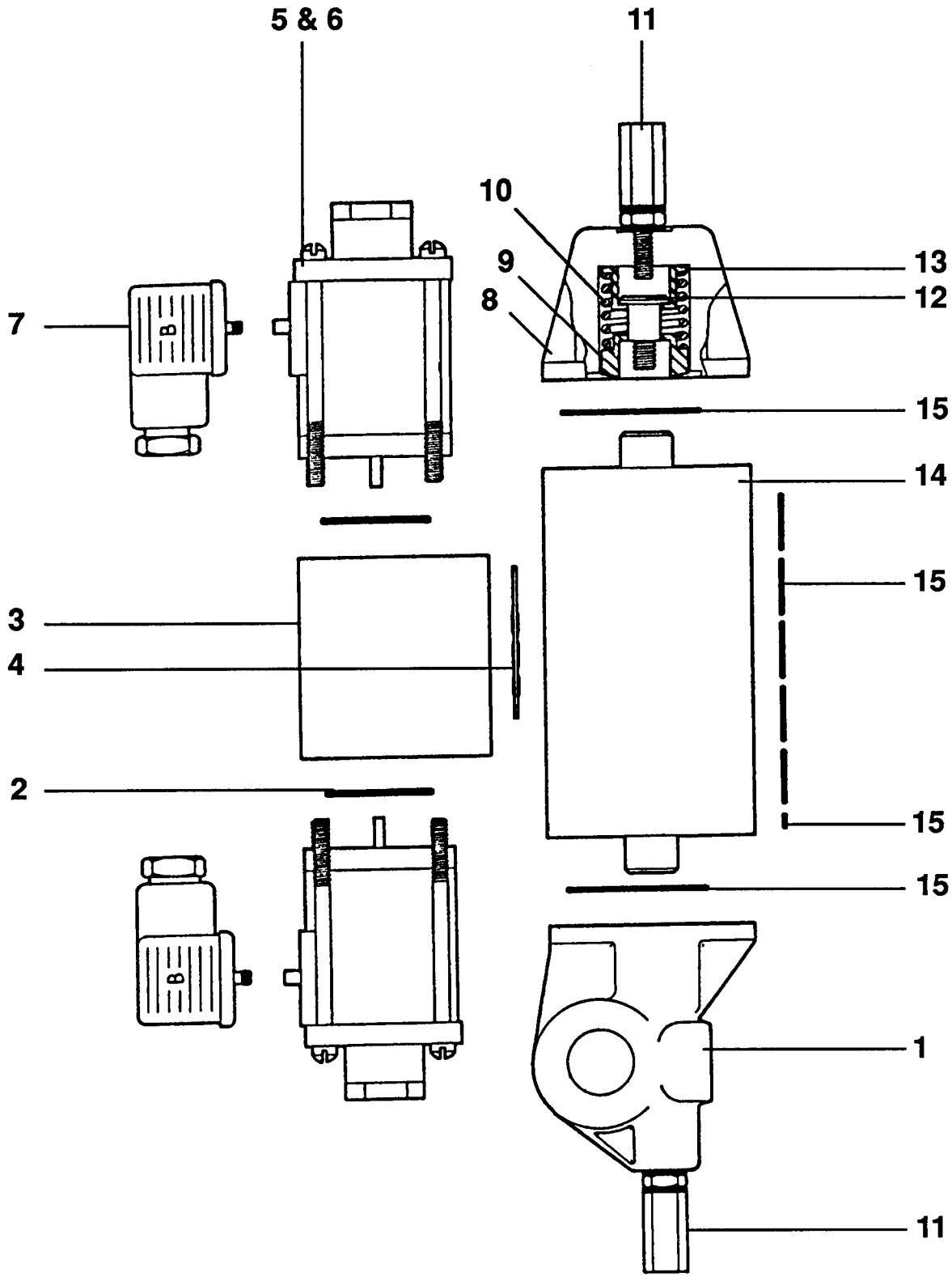
TITLE 4-WAY, 3 POSITION SOLENOID VALVE, OPEN CENTER (MOTORING) SPOOL

SIMON AERIALS INC.	REV. 20 SEP., 1995	PART NO. 01-031800	PLATE NO. D13.02

PARTS LIST

ITEM	PART NO	SEE SECTION	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	

TITLE	4-WAY VALVE ASSEMBLY			
PLATE NO.	D13.03	**SIMON AERIALS INC.**	REV. 13/08/91	PART NO. 01-040301 THRU 01-040304

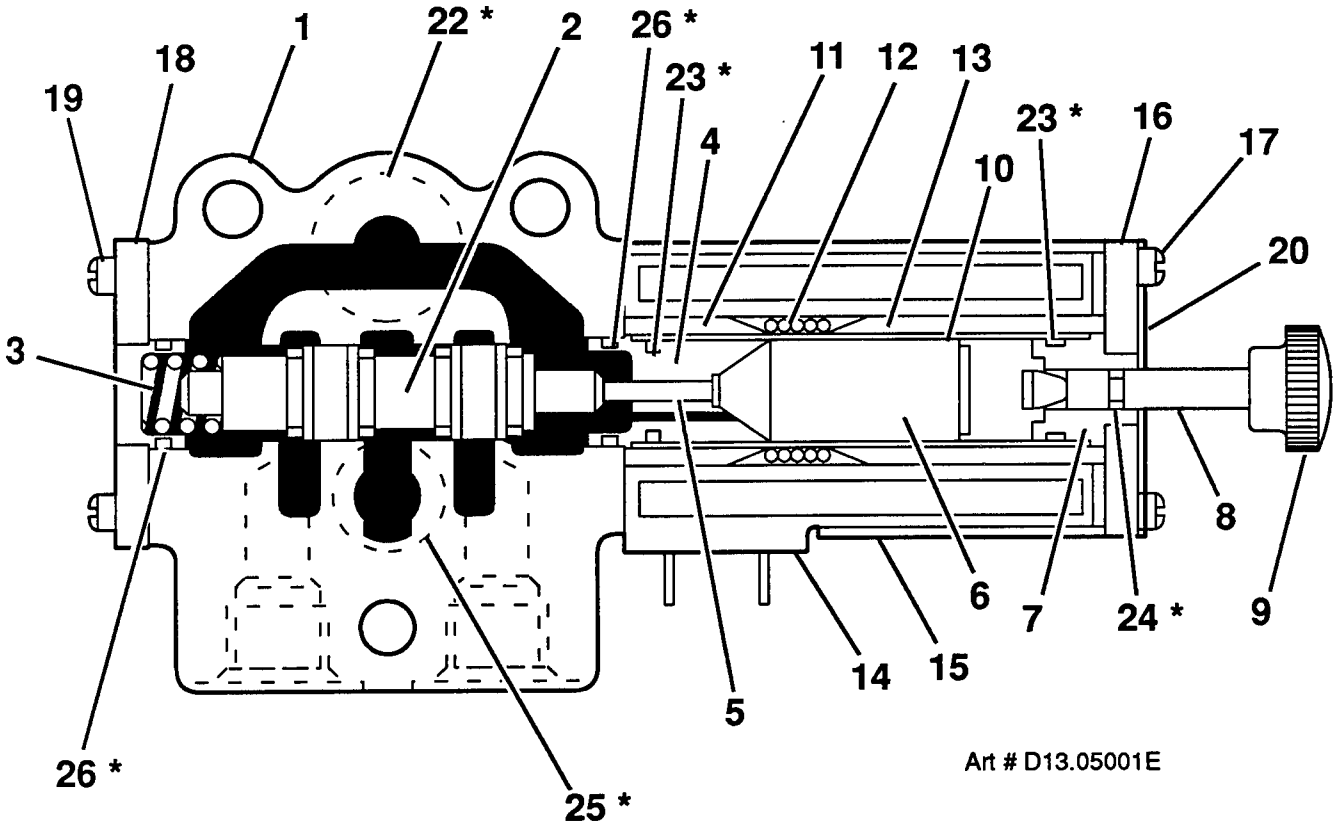


TITLE	4-WAY VALVE ASSEMBLY		
SIMON AERIALS INC. REV. 13/08/91		PART NO. 01-040301 THRU 01-040304	PLATE NO. D13.03

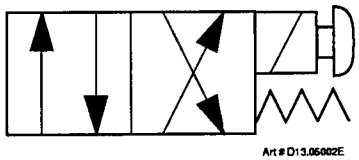
PARTS LIST

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

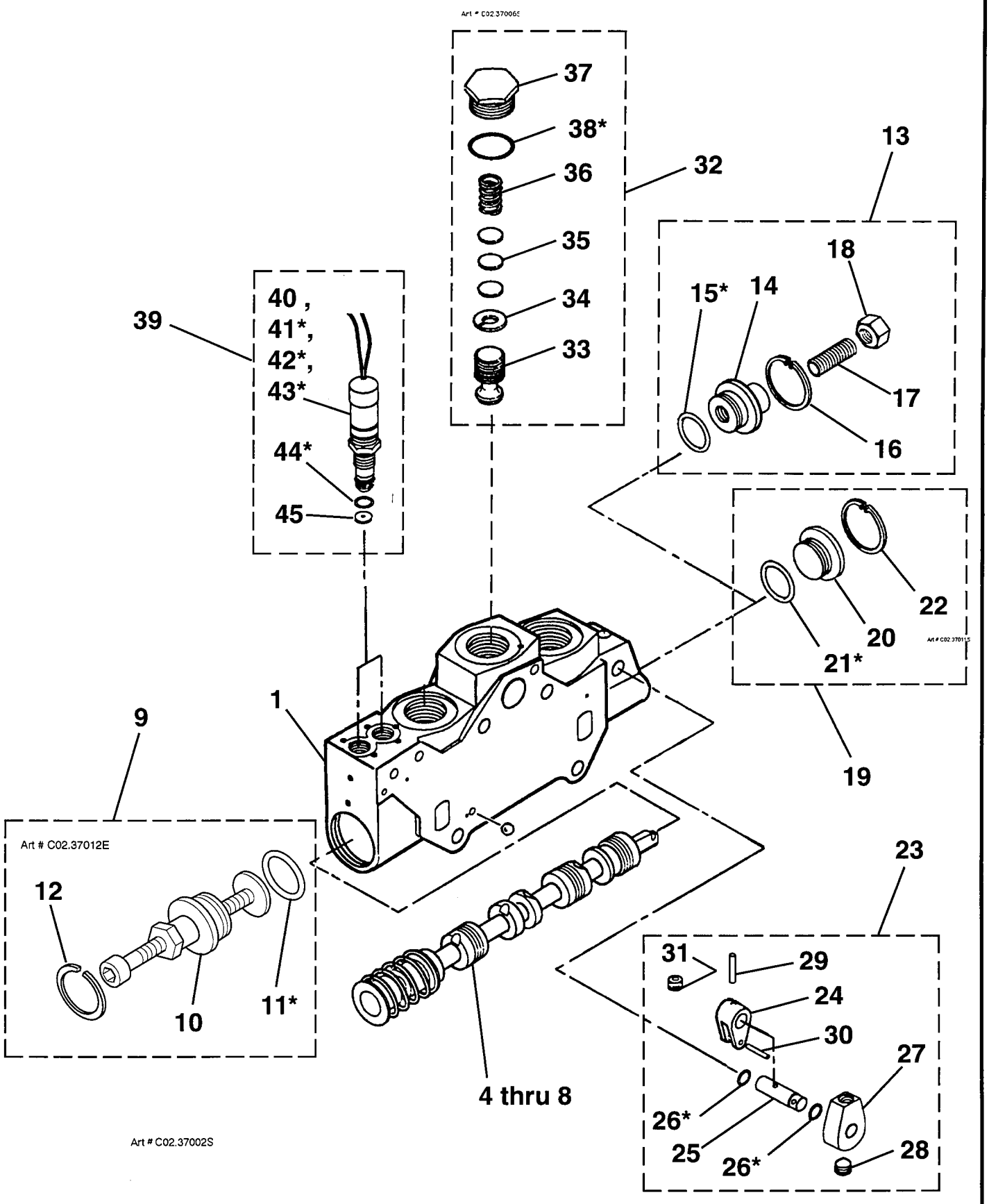
TITLE	4-WAY, 2 POSITION SOLENOID VALVE		
SIMON AERIALS INC. NEW 06/24/91		PART NO. 01-061900	PLATE NO. D13.05

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



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

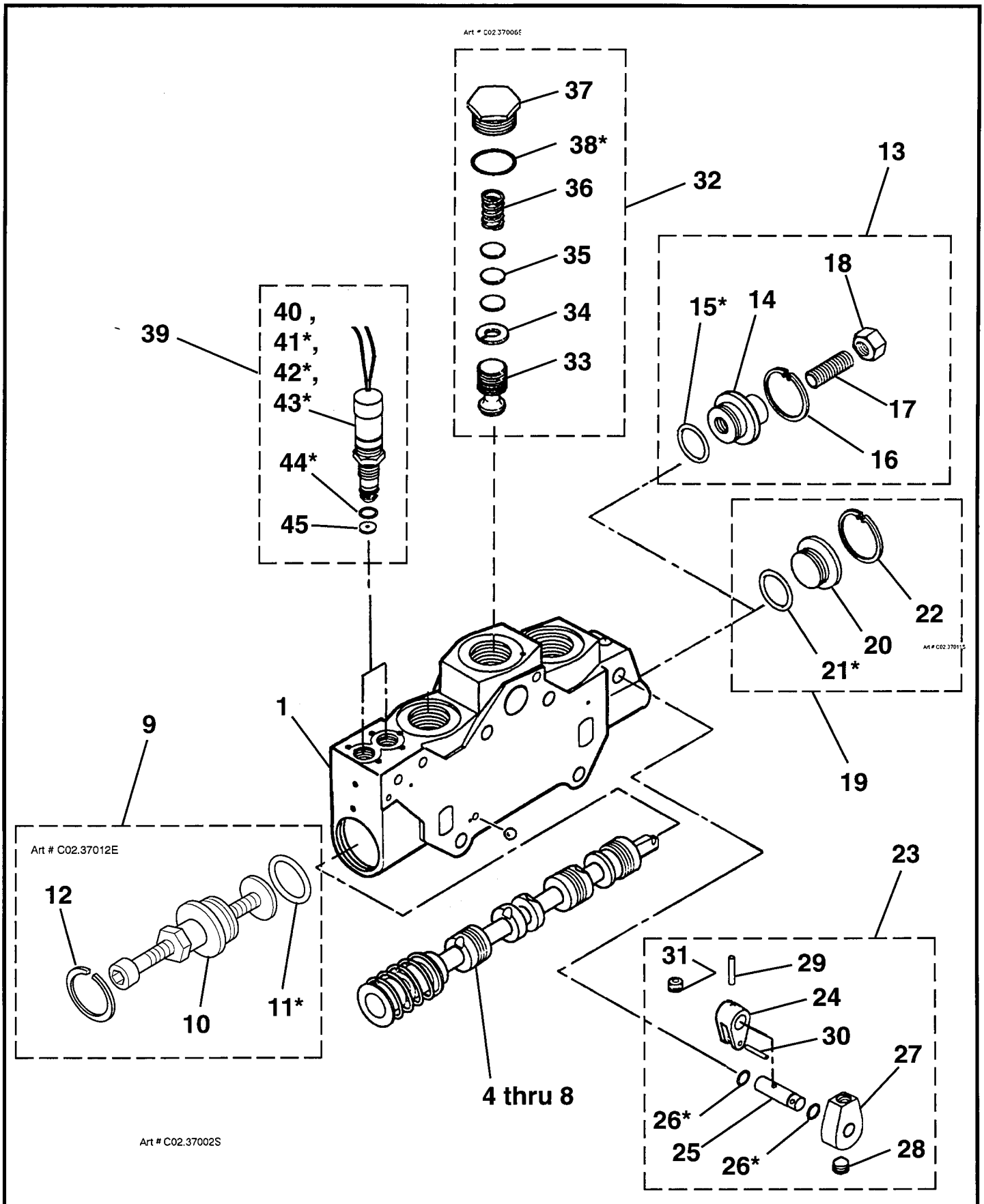
SIMON AERIALS INC.	REV. 16 FEB., 1996	PART NO.	PLATE NO. D13.06

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)

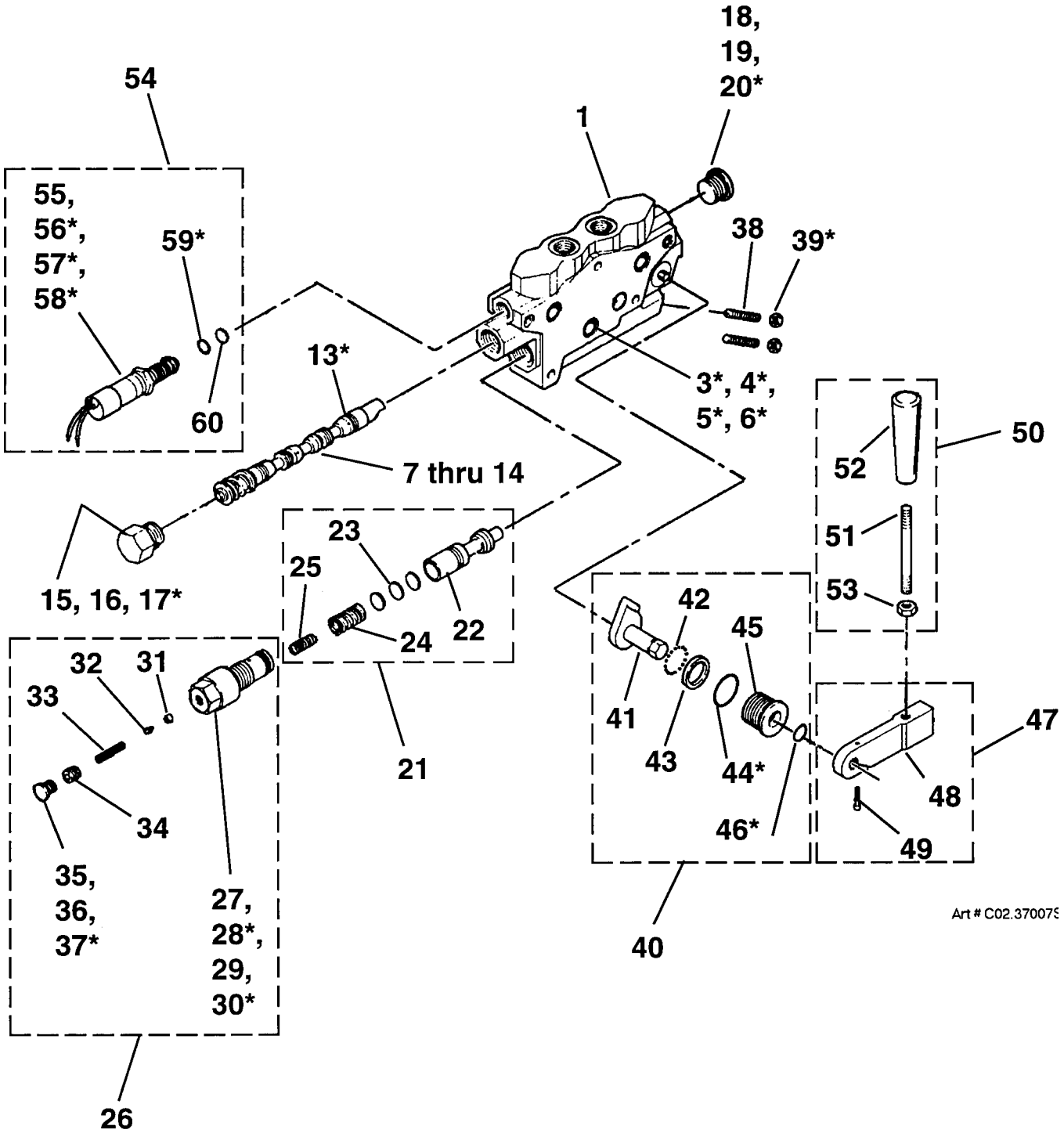
SIMON AERIALS INC.	REV. 16 FEB., 1996	PART NO.	PLATE NO. D13.06

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)

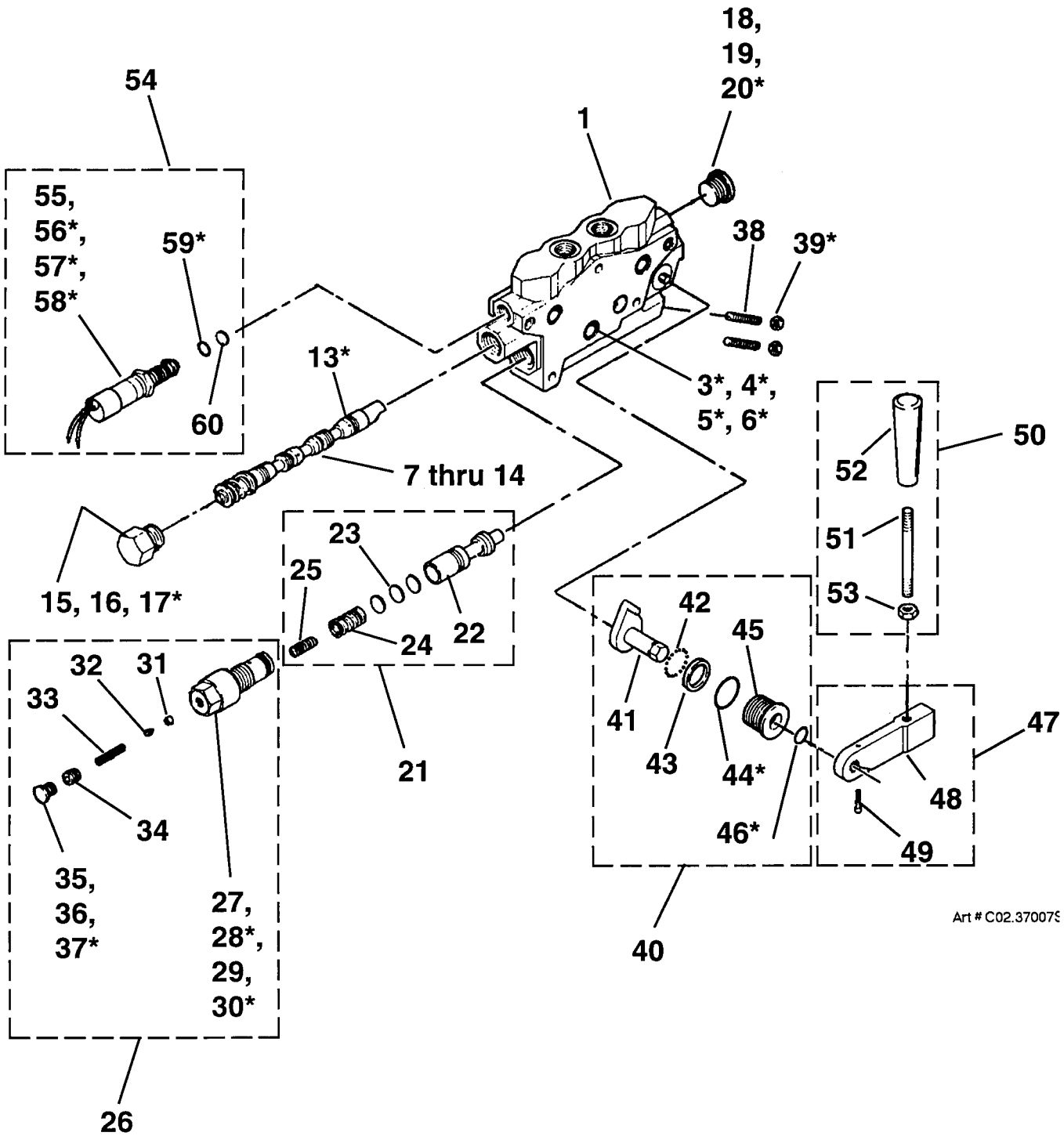
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.07

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)

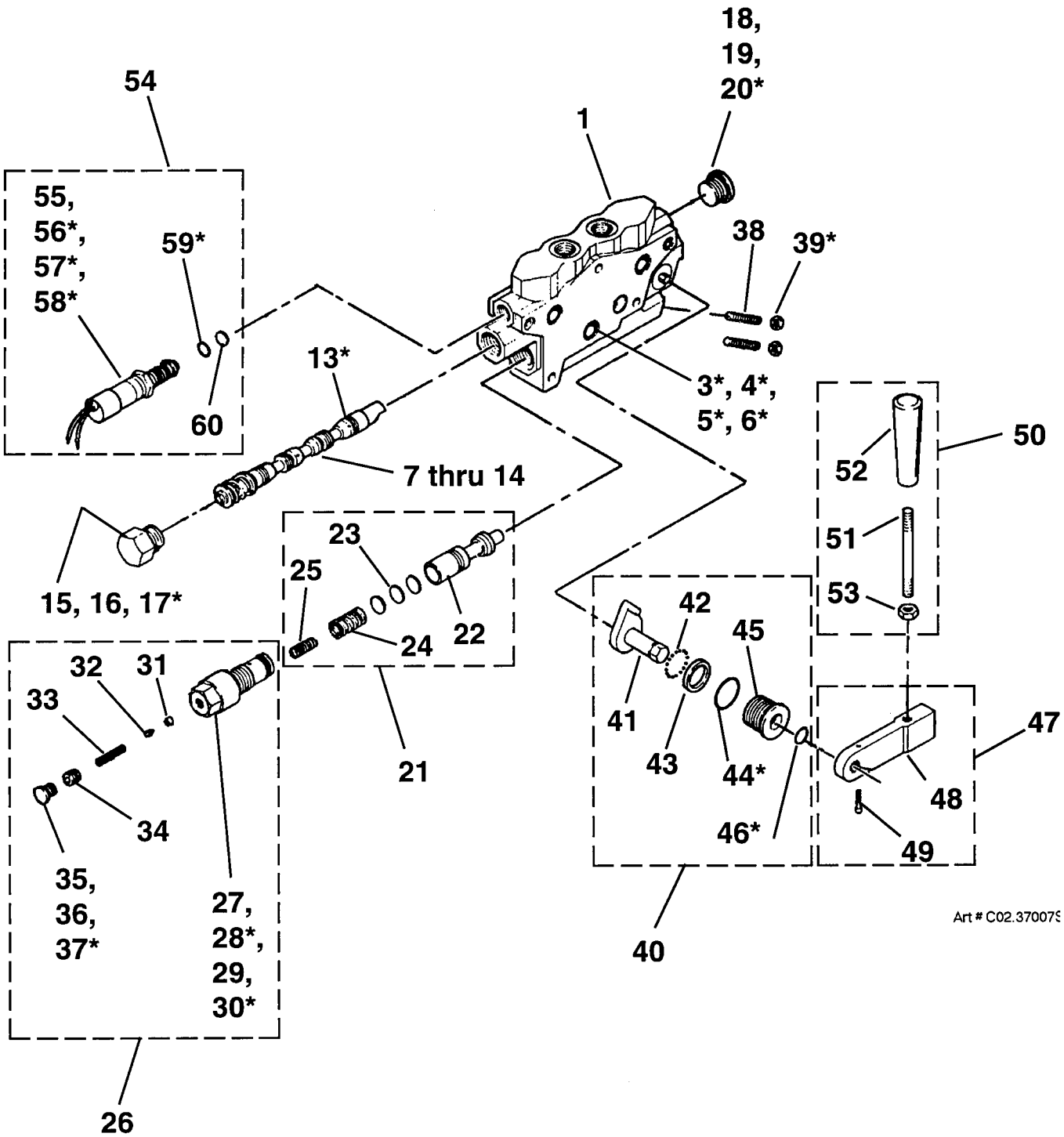
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.07

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



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

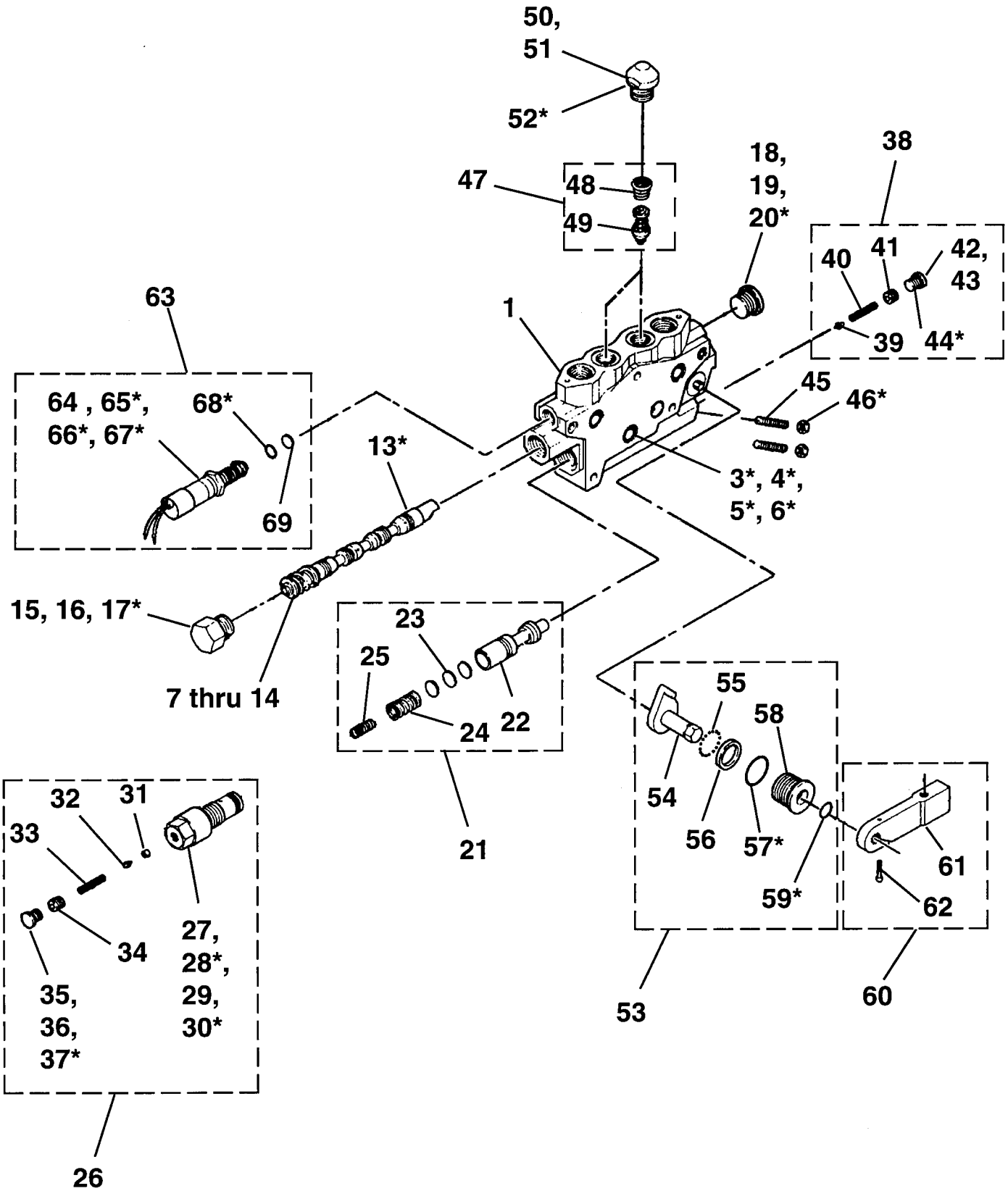
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.07

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



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

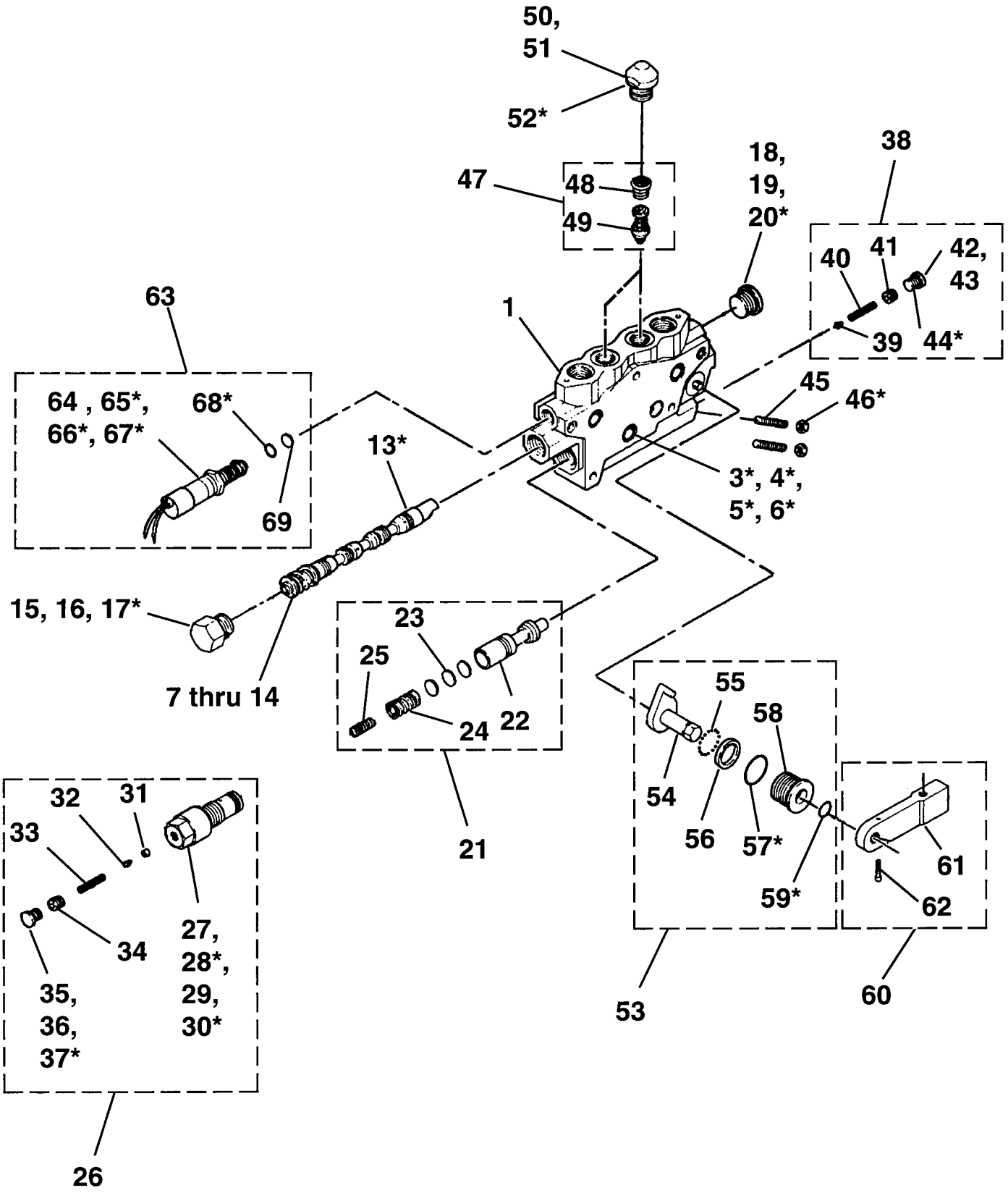
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.08

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)

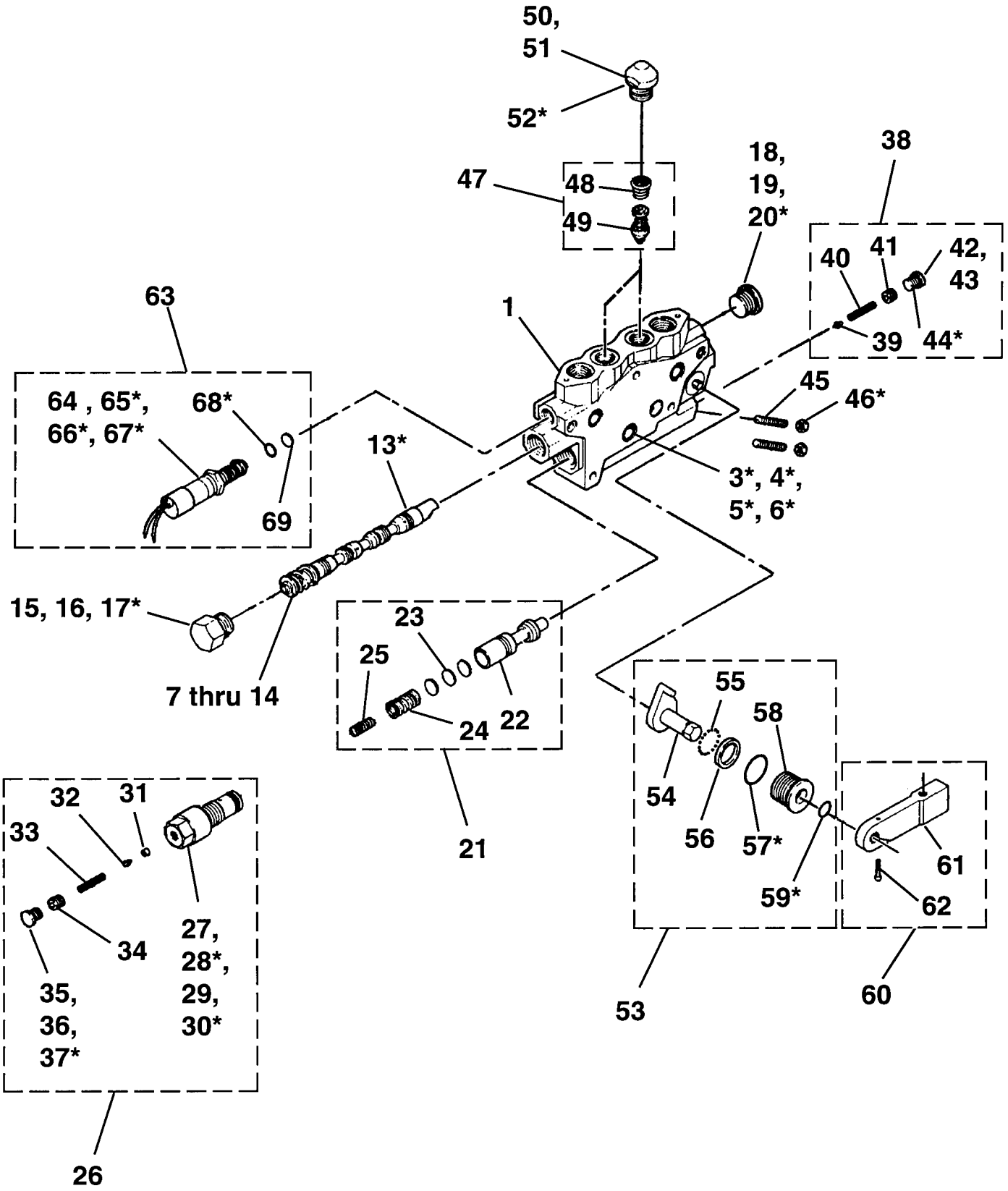
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.08

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



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

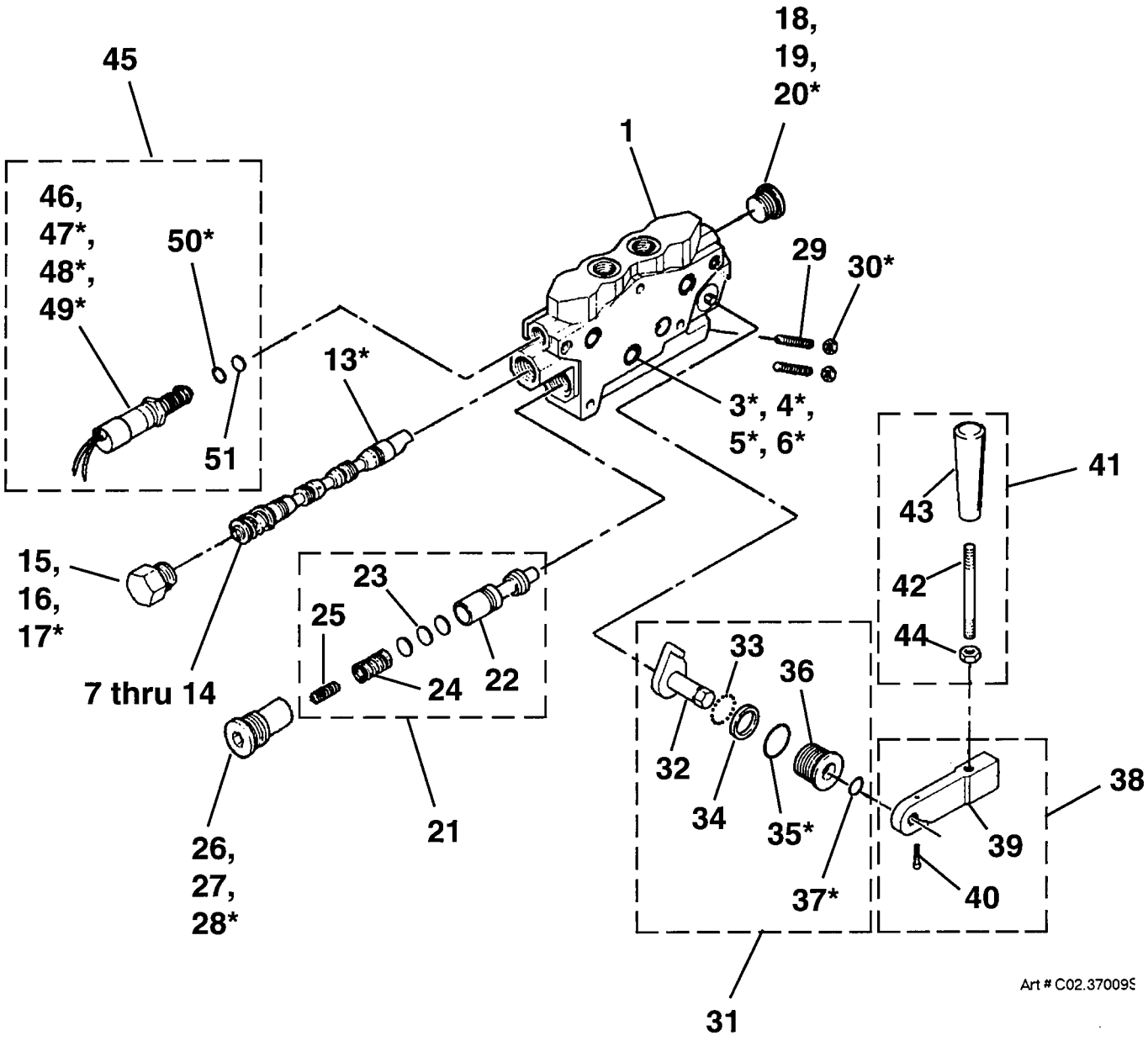
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.08

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



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

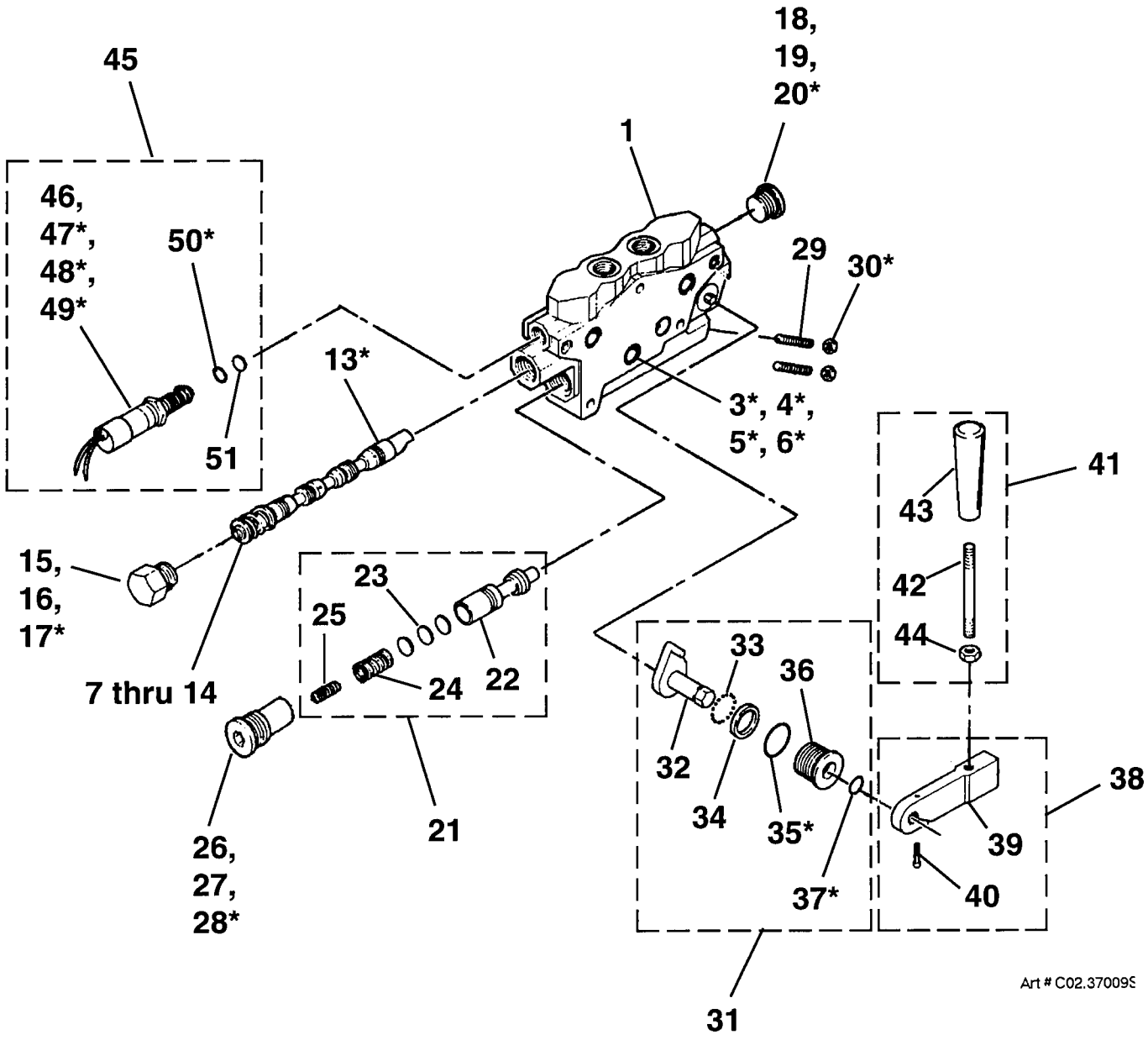
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.09

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)

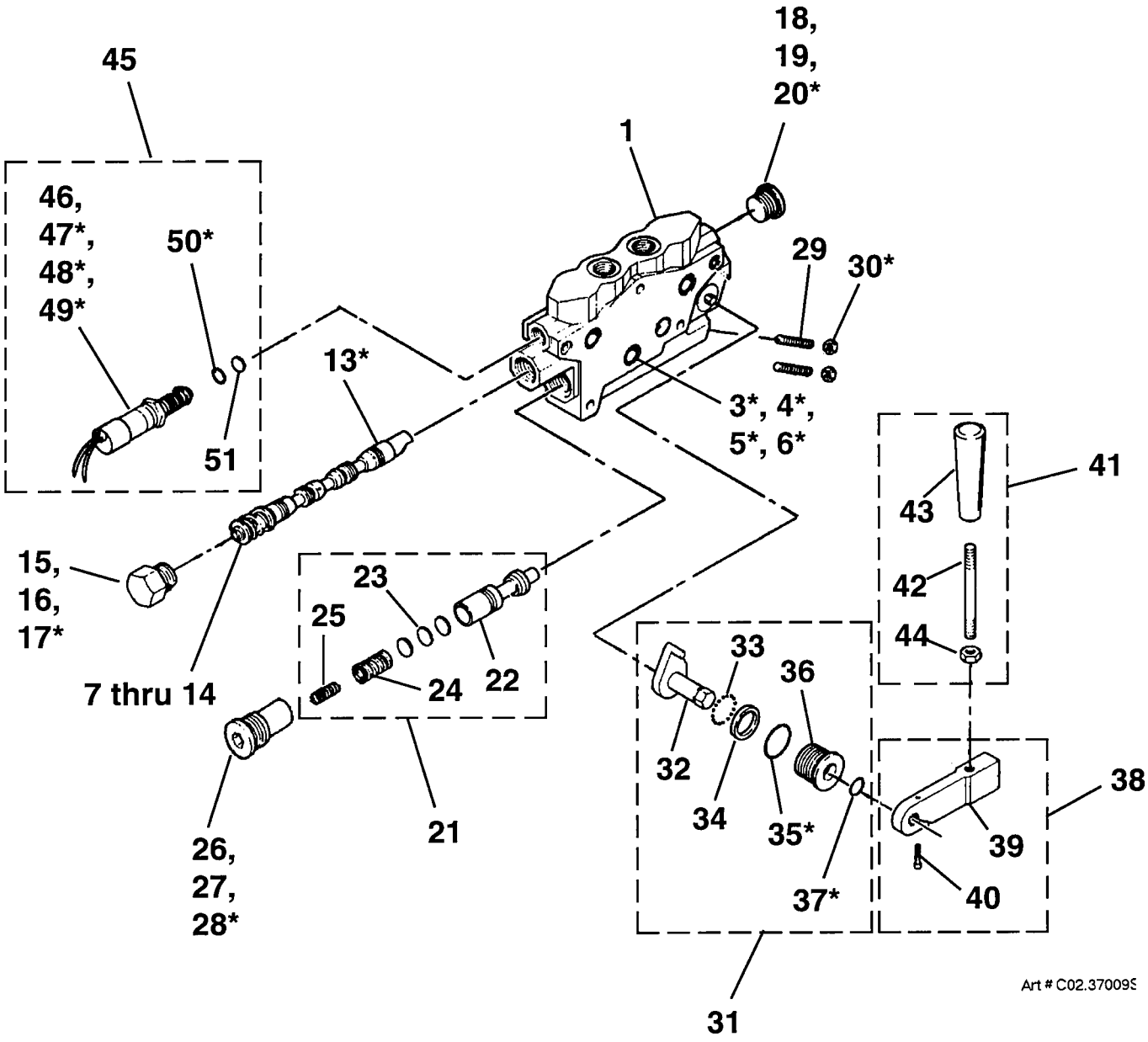
SIMON AERIALS INC. REV. 26 JUL., 1994 | PART NO. | PLATE NO. D13.09

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
45	01-211001 Call Simon		SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector) for **first type** valve bank assemblies (MP series only) 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.		PART NO.
D13.09	**SIMON AERIALS INC.** REV. 26 JUL., 1994	



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

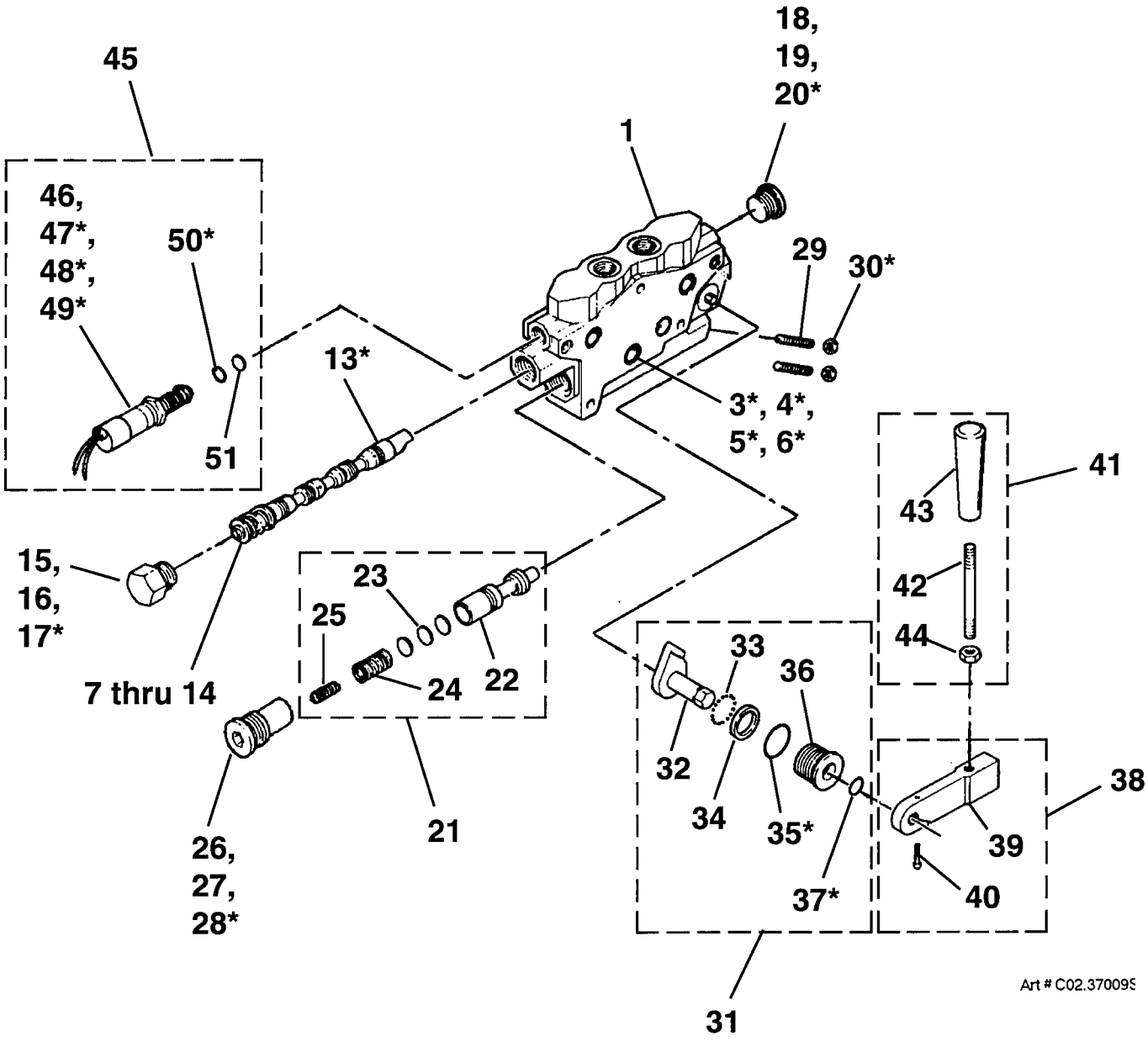
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.09

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	

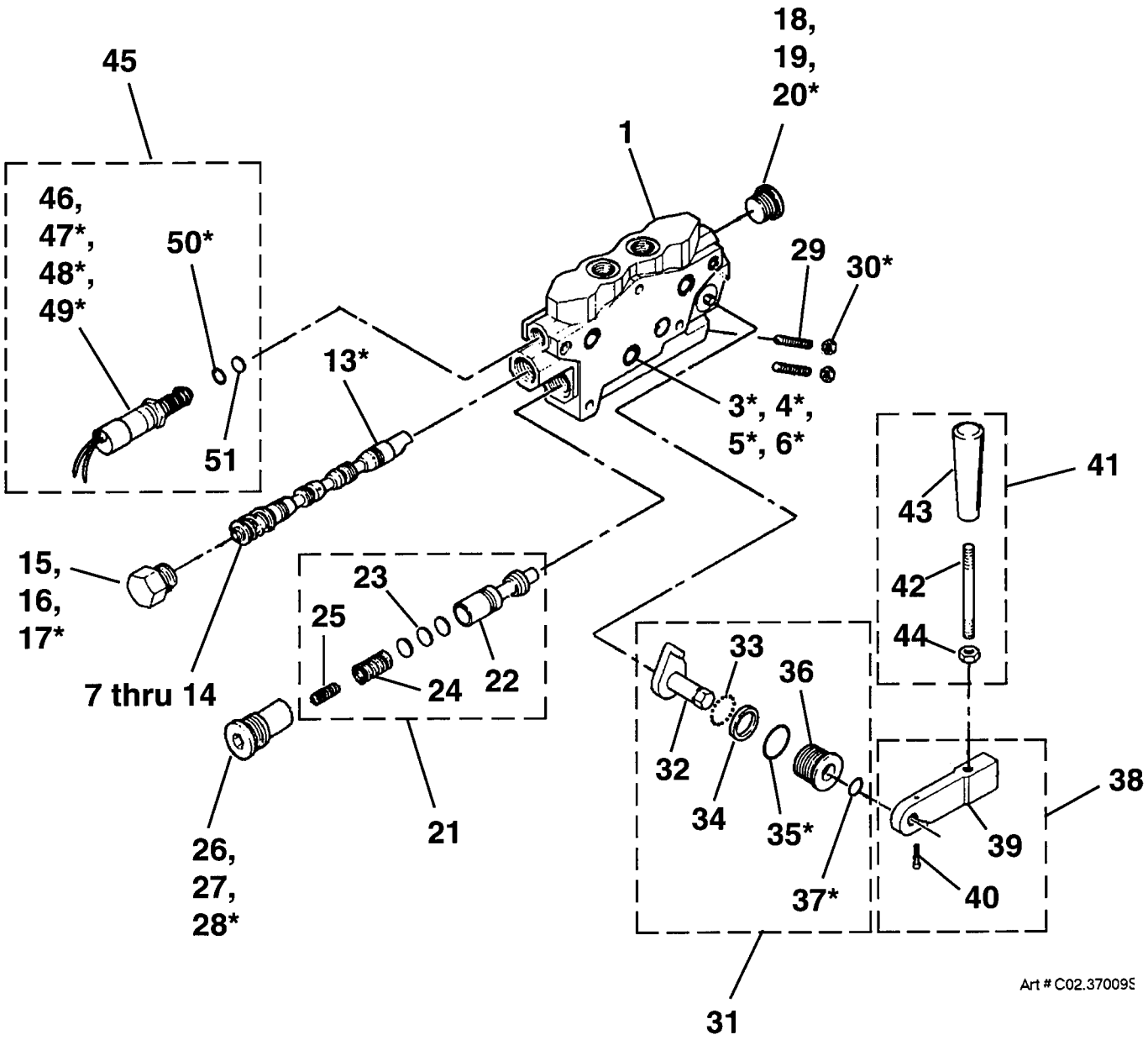


TITLE	SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (1 OF 3)		
SIMON AERIALS INC.	REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.10

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)

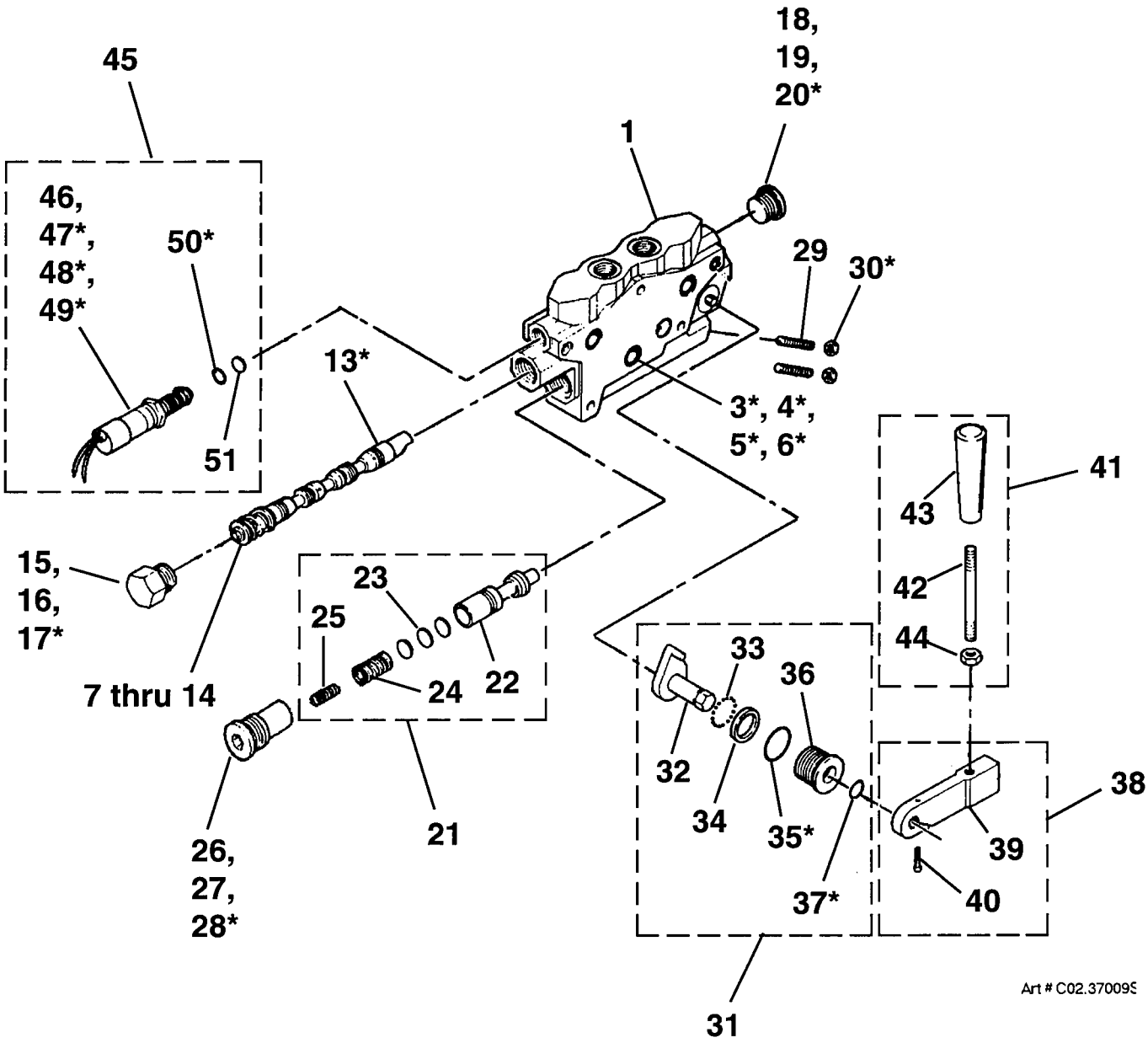


TITLE	SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (2 OF 3)		
SIMON AERIALS INC.	REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.10

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
45	01-211001 Call Simon		SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector) for **first type** valve bank assemblies (MP series only) 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.	

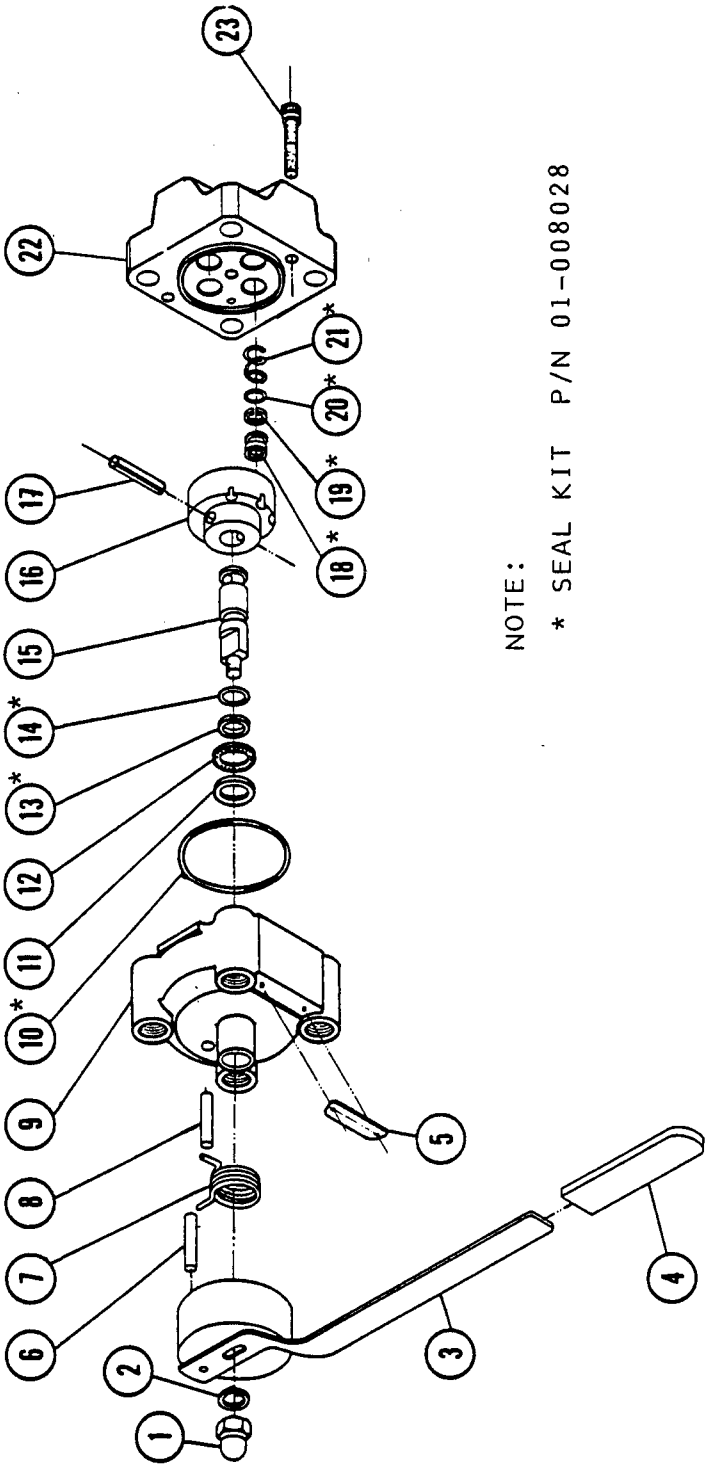


TITLE	SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (3 OF 3)		
SIMON AERIALS INC.	REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.10

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



NOTE:
* SEAL KIT P/N 01-008028

1283/0677

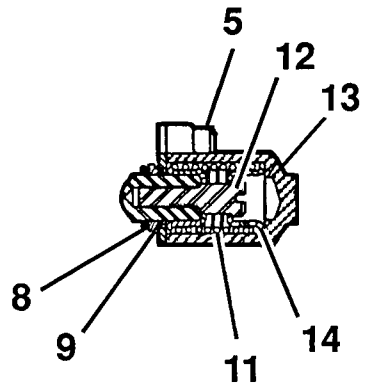
DESCRIPTION	PART NO.
4-WAY MANUAL VALVE	01-008000

PARTS LIST

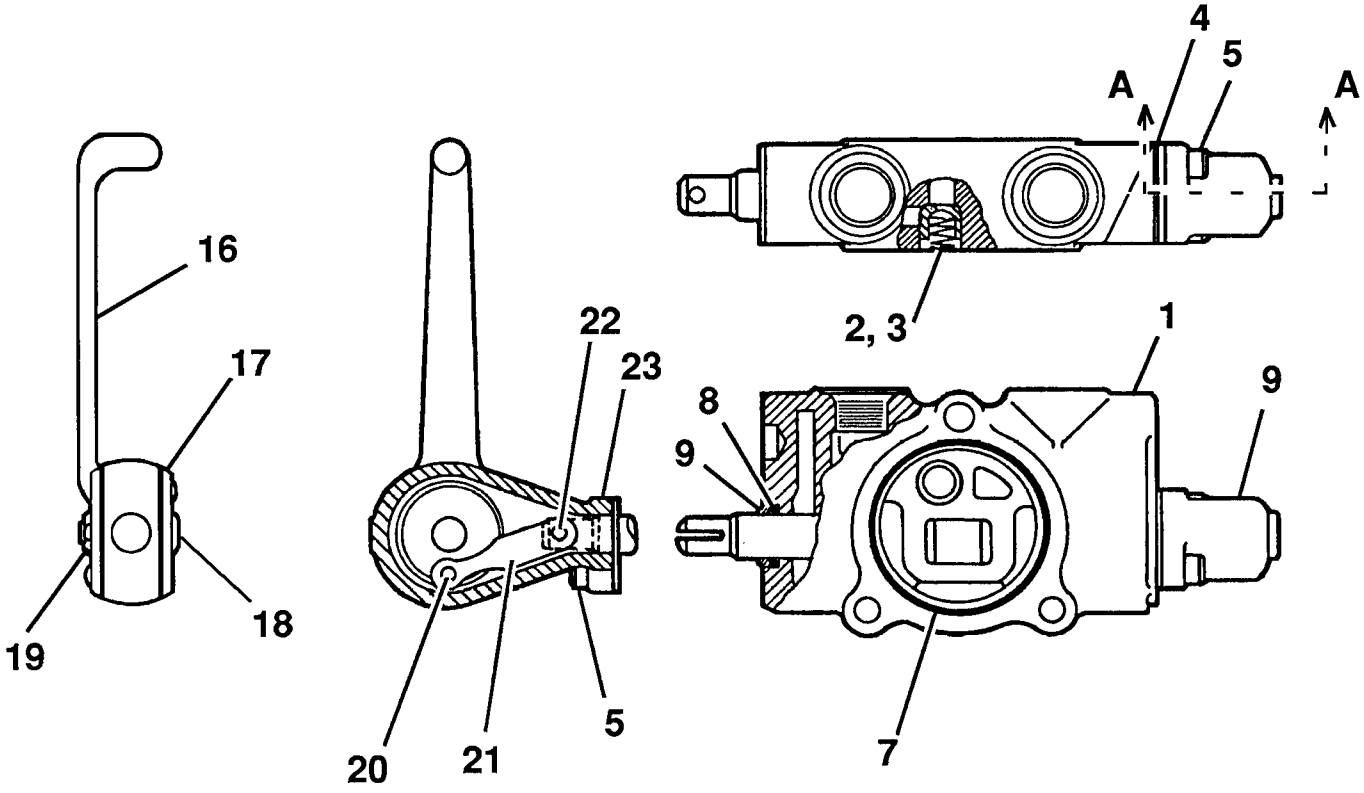
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-067701		VALVE ASSEMBLY, 4-WAY MANUAL **Important**: Part No. 01-067701 includes items 1 through 14 only. To get a complete valve assembly you must order 01-067701 and 01-067702 (item 15).	1
2			POPPET, CHECK VALVE	1
3			SPRING, CHECK VALVE POPPET	1
4			PLATE, SEAL	2
5			CAP SCREW	4
6	01-067708		SEAL KIT, 4-WAY MANUAL VALVE ASSEMBLY	1
7	01-067707		"O"-RING (section seal)	1
8			"O"-RING (plunger seal)	2
9			SEAL, WIPER (molded)	2
10	01-067703		END CAP ASSEMBLY, PLUNGER	1
11			SPRING	1
12			SHOULDER SCREW	1
13			HOUSING	1
14			CAP, SPRING	2
			Note: The following items are not part of Valve Assembly 01-067701:	
15	01-067702		LEVER ASSEMBLY	1
16	01-067709		LEVER	1
17			HUB	2
18			BOLT	1
19			NUT	1
20			DOWEL PIN	1
21			LINK	1
22			ROLL PIN	1
23			BRACKET, LEVER	1

TITLE: 4-WAY MANUAL VALVE, MOTORING SPOOL

PLATE NO. D14.02 | **SIMON AERIALS INC.** REV. 26 APR., 1993 | PART NO. 01-067701



Section "A-A"

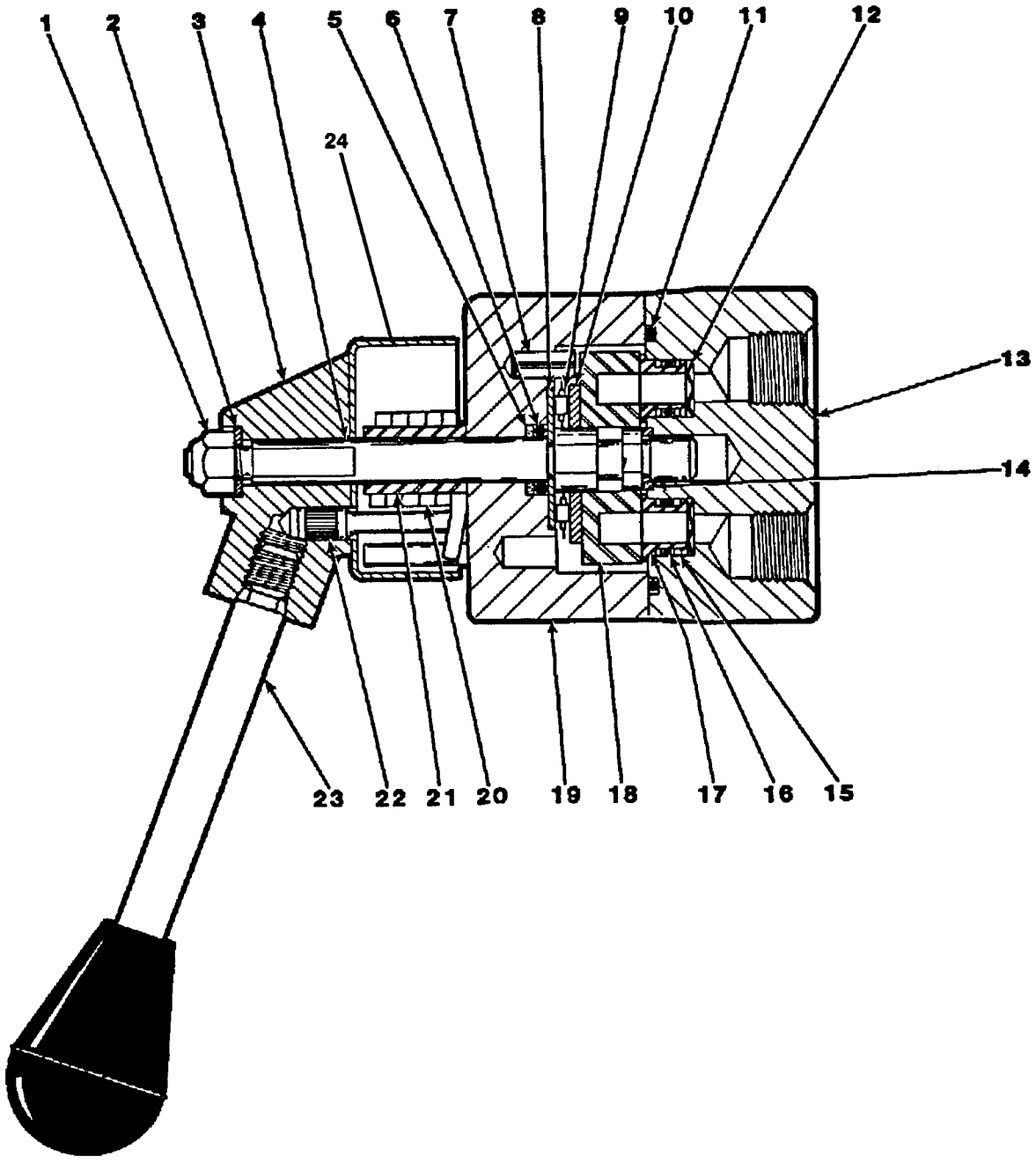


TITLE	4-WAY MANUAL VALVE, MOTORING SPOOL		
SIMON AERIALS INC. REV. 26 APR., 1993	PART NO. 01-067701	PLATE NO. D14.02	

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

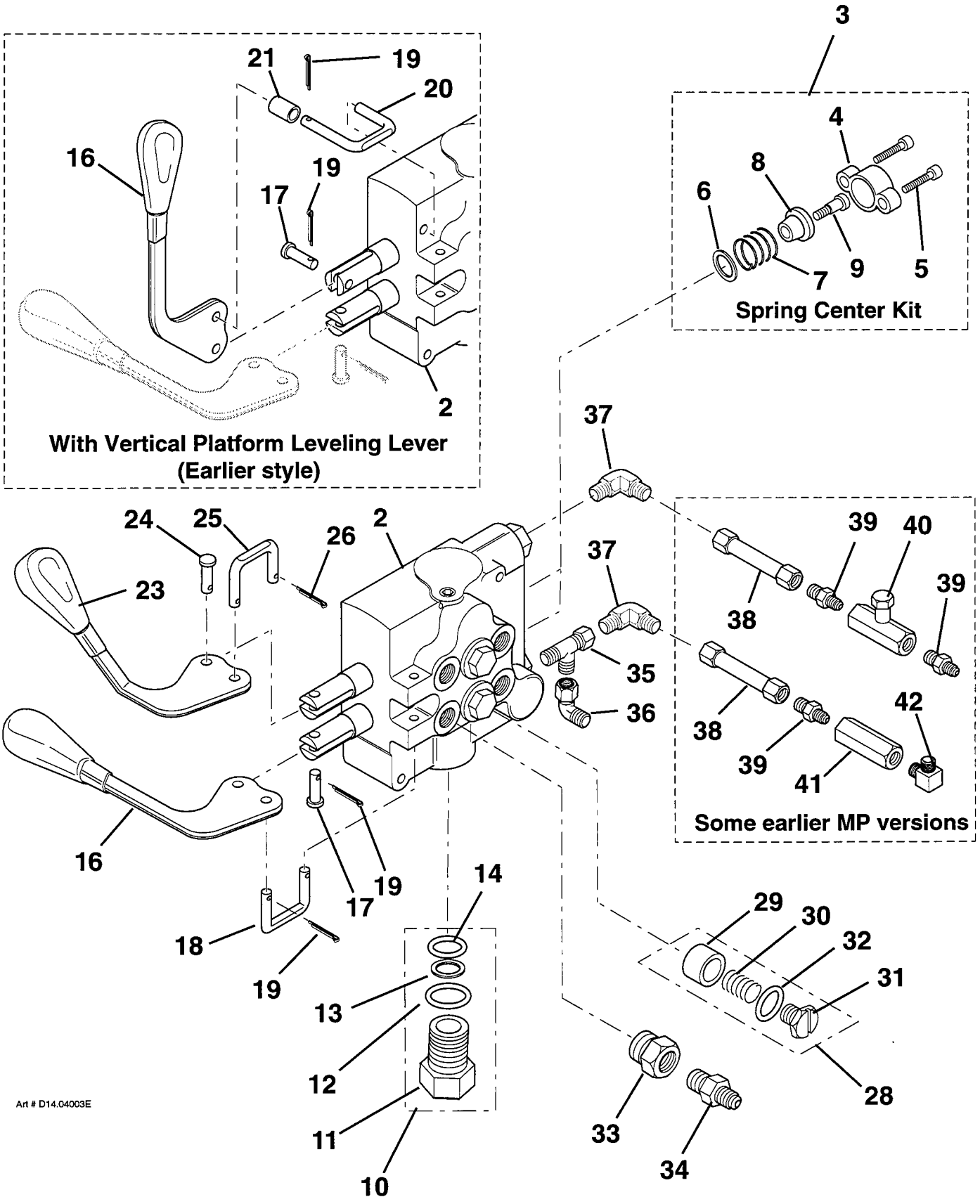
TITLE	4-WAY MANUAL CONTROL VALVE		
SIMON AERIALS INC. REV. 26 APR., 1993	PART NO. 01-069900	PLATE NO. D14.03	

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)

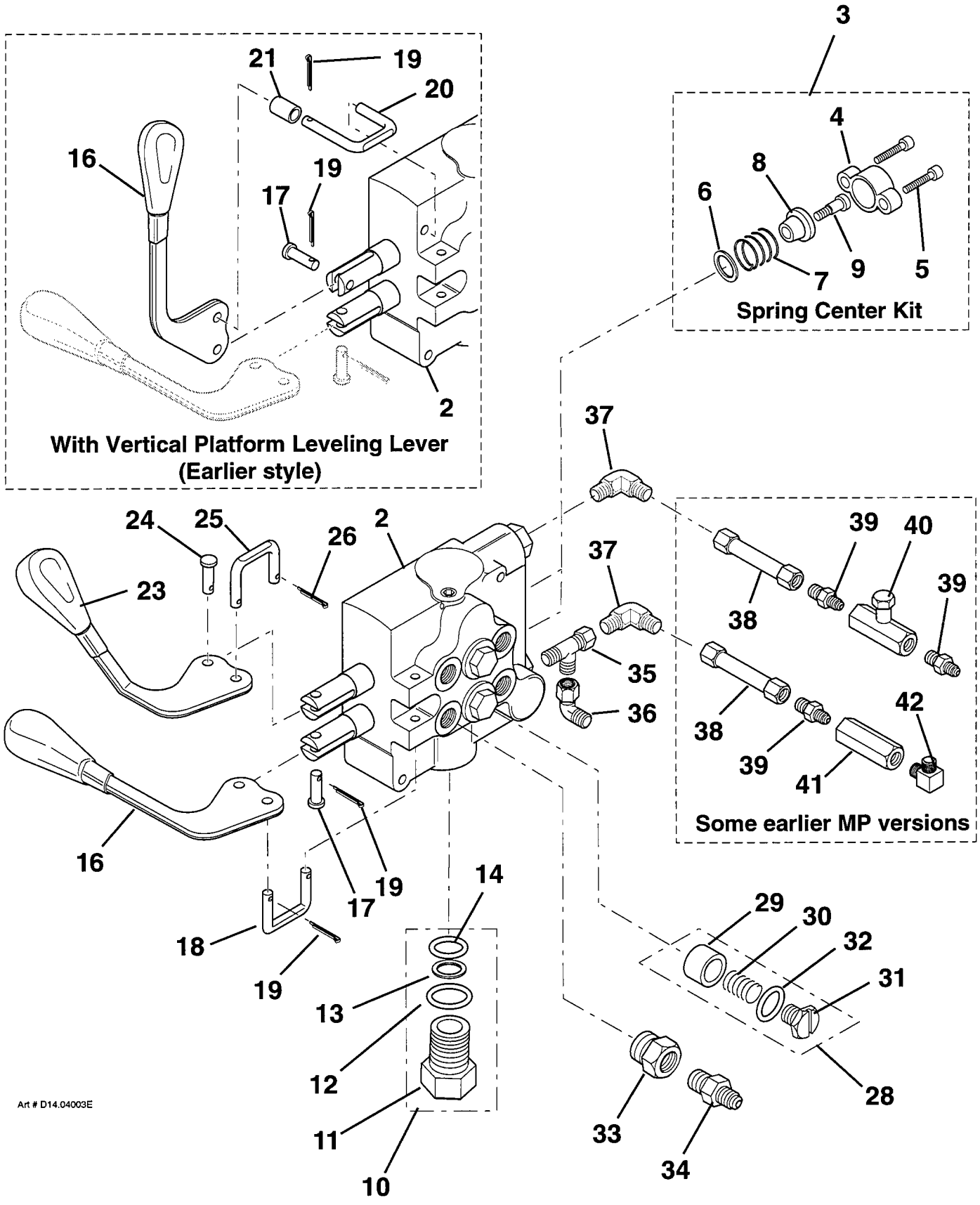
SIMON AERIALS INC. REV. 29 NOV., 1995	PART NO.	PLATE NO. D14.04

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



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

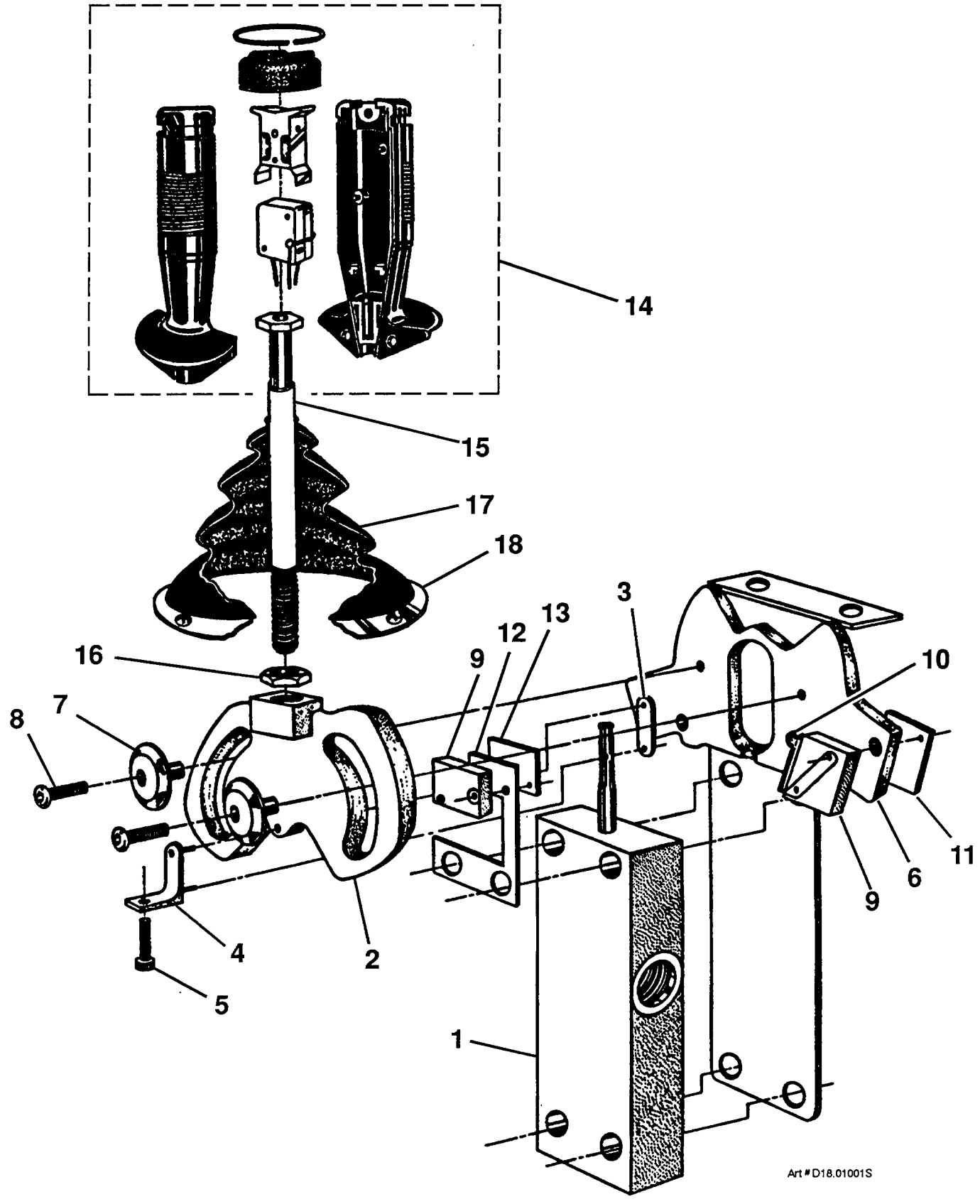
SIMON AERIALS INC.	REV. 29 NOV., 1995	PART NO.	PLATE NO. D14.04

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-004700	D05.02	VALVE, 2-WAY (Flow control valve)	1
2	2103190		ACTUATOR, FLOW CONTROL VALVE	1
3	08-010600		LINK, CHAIN CONNECTING	1
4	2103170		BRACKET, SWITCH ACTUATOR	1
5	07-008352		SCREW, SOCKET HEAD ("10-24 x 3/4", Grade 5)	1
6	2103200		BASE, VALVE	1
7	2102610		BUSHING, FLANGED	2
8	07-017003		SCREW, BUTTON HEAD (1/4"-20 x 3/4")	2
9	03-065000		MICRO SWITCH (includes roller lever actuator)	
			Note: Actuator not needed for one switch.	3
10	03-026500		ACTUATOR, BOLT ON (Roller lever)	1
11	2103140		PLATE, SWITCH MOUNTING	2
12	2102640		BRACKET, MICRO SWITCH	1
13	2103150		PLATE, SWITCH MOUN TING	1
			The following items **are not** part of the Drive Control Valve Assembly:	
14	03-402200	E01.07	HANDLE ASSEMBLY, DRIVE CONTROL	1
15	2112760		SHAFT, HANDLE	1
16	07-040015		NUT, HEX (5/16"-18, Grade 5)	1
17	03-020805		BOOT, RUBBER	1
18	2102540		RING, RUBBER BOOT CLAMP	1

TITLE: DRIVE/ STEER CONTROL VALVE ASSEMBLY

PLATE NO. D18.01 | **SIMON AERIALS INC.** REV. 08/13/91 | PART NO. 3510034

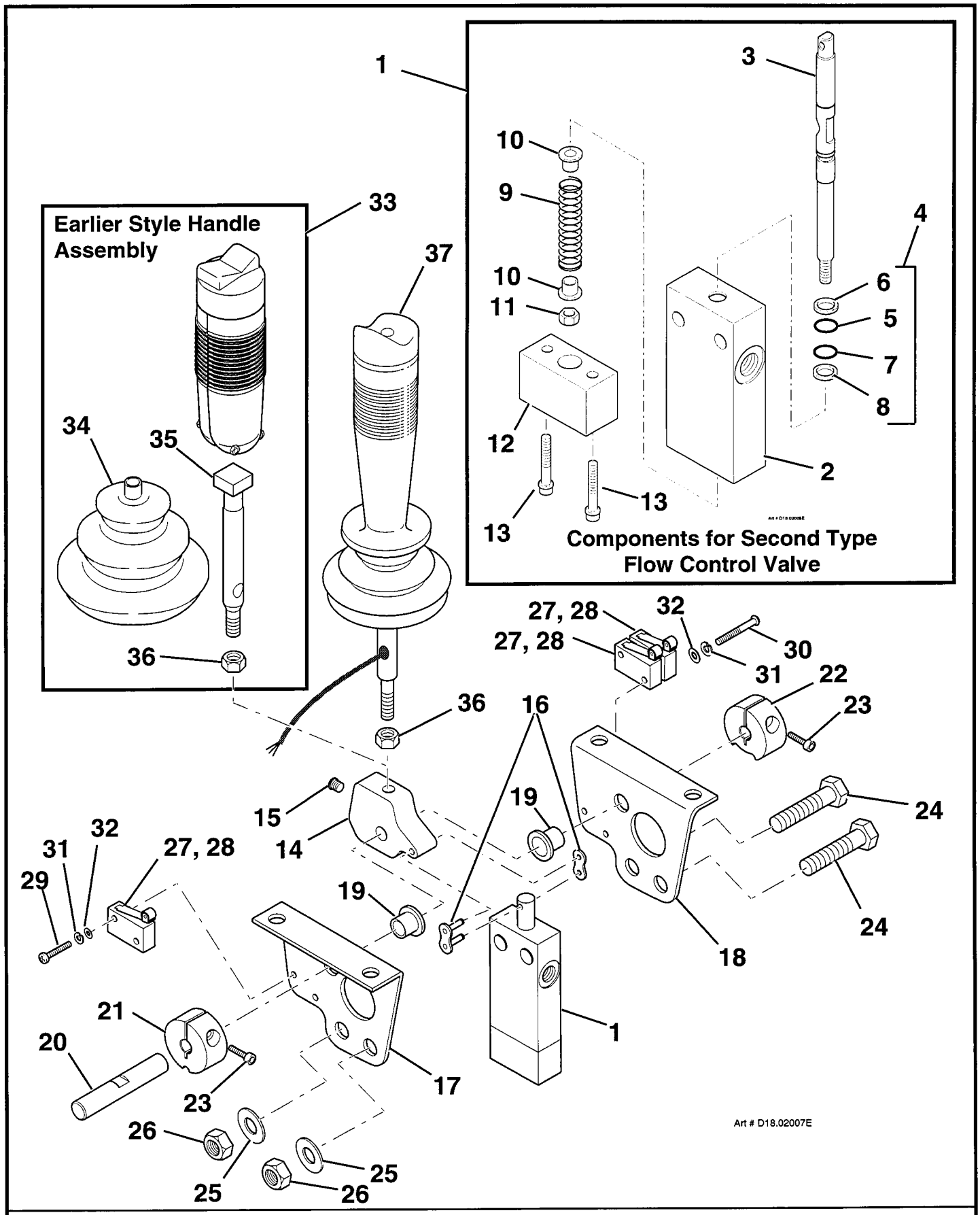


TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY		
SIMON AERIALS INC.	REV. 08/13/91	PART NO. 3510034	PLATE NO. D18.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			VALVE ASSEMBLY, DRIVE CONTROL (First type shown)	1
	01-072400		First type (**Not** for use with Water Glycol hydraulic fluid)	
	01-201400		First type (Can be used with Water Glycol hydraulic fluid)	
	353 5630		Second type (Single cam [Item 21] has **three** detents)	
	353 5640		Second type (Single cam [Item 21] has **one** detent)	
1			VALVE, FLOW CONTROL (1 tooth)	1
	- - -		For "**first type**" assembly (Valve is not available separately)	
	01-230800		For "**second type**" assembly	
2	231 5530		BODY, FLOW CONTROL VALVE	1
3	231 5540		SPOOL, FLOW CONTROL VALVE	1
4	01-000901		SEAL KIT, FLOW CONTROL VALVE	1
5	01-000902		"O"-RING (12 mm)	1
6	01-000904		RING, BACKUP (12 mm)	1
7	01-000903		"O"-RING (10 mm)	1
8	01-000905		RING, BACKUP (10 mm)	1
9	231 5560		SPRING	1
10	231 5550		BUSHING, SPRING RETAINER	2
11	07-050014		NUT, LOCK (1/4"-20, Grade 5)	1
12	231 5520		CAP, VALVE BODY	1
13	07-008354		CAP SCREW, HEX SOCKET HEAD	
			(#10-24 x 1-1/4", Grade 8)	2
14			ARM, ROCKER	1
	212 1810		used with "**first type**" valve	
	232 3270	shown	used with "**second type**" valve	
15	07-023059		SET SCREW, SOCKET HEAD (3/8"-16 x 3/8", Grade 5)	
			(used with **"second type"** valve)	1
16	08-010200		LINK KIT, CONNECTING	1
17	212 1780		BRACKET, VALVE (right) (single switch side)	1
18	212 1790		BRACKET, VALVE (left) (double switch side)	1
19	212 1800		BUSHING, FLANGED	2
20	212 1740		SHAFT, CAM	1
21			CAM, SWITCH (single)	1
	212 1760		Cam has three detents (for **all except** 353 5640)	1
	232 3420	shown	Cam has one detent (for 353 5640)	1
22	212 1770		CAM, SWITCH (double)	1
23	07-008352		CAP SCREW, HEX SOCKET HEAD (#10-24 x 3/4", Grade 8)	2
24	07-003028		CAP SCREW, HEX HEAD (5/16"-18 x 1-3/4", Grade 5)	2
25	07-062015		WASHER, FLAT (5/16")	2
26	07-050015		NUT, STOP (5/16"-18, Grade 5)	2

TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY (PLATE 1 OF 2)		
PLATE NO. D18.02	**SIMON AERIALS INC.**	REV. 16 JAN., 1996	PART NO.

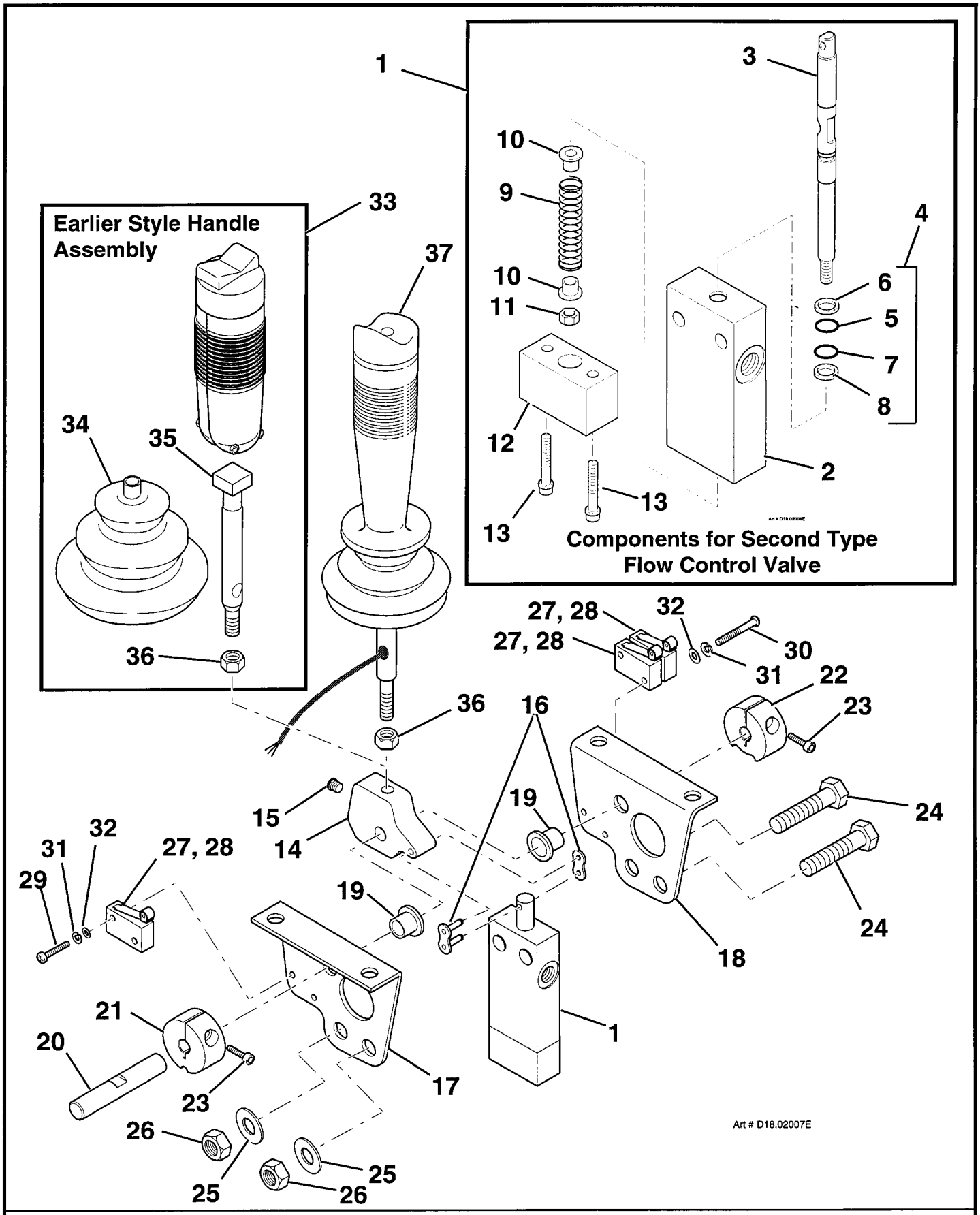


TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC.	REV. 16 JAN., 1996	PART NO.	PLATE NO. D18.02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
27	03-065000		MICRO SWITCH (includes roller lever actuator)	3
28	03-026500		ACTUATOR, BOLT ON (Roller lever)	1
29	07-013383		MACHINE SCREW, ROUND HEAD (#4-40 x 3/4", Grade 2)	2
30	07-013386		MACHINE SCREW, ROUND HEAD (#4-40 x 1-1/8", Grade 2)	2
31	07-065003		WASHER, HELICAL LOCK (#4)	4
32	07-062003		WASHER, FLAT (#4)	4
			The following **are not** part of the Drive Control Valve Ass'y:	
33	03-402200	E01.07	HANDLE ASSEMBLY, DRIVE CONTROL (Earlier style) (Note style of rocker switch on top. Comes with boot)	1
34	03-402206		BOOT, DRIVE CONTROL HANDLE	1
35	211 2760		SHAFT, HANDLE (for earlier style handle)	1
36	07-040016		NUT, HEX (3/8"-16, Grade 5)	1
37	353 0010	E01.14	HANDLE ASSEMBLY, DRIVE CONTROL (Later style) (Note style of rocker switch on top. Includes shaft and boot)	1
38	06-039300		ADAPTER, "O"-RING TO 37° (4 F5OX-S)	1
39	06-044500		90° ELBOW, "O"-RING TO 37° (6-4 C5OX-S)	1

TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY (PLATE 2 OF 2)		
PLATE NO. D18.02	**SIMON AERIALS INC.**	REV. 16 JAN., 1996	PART NO.

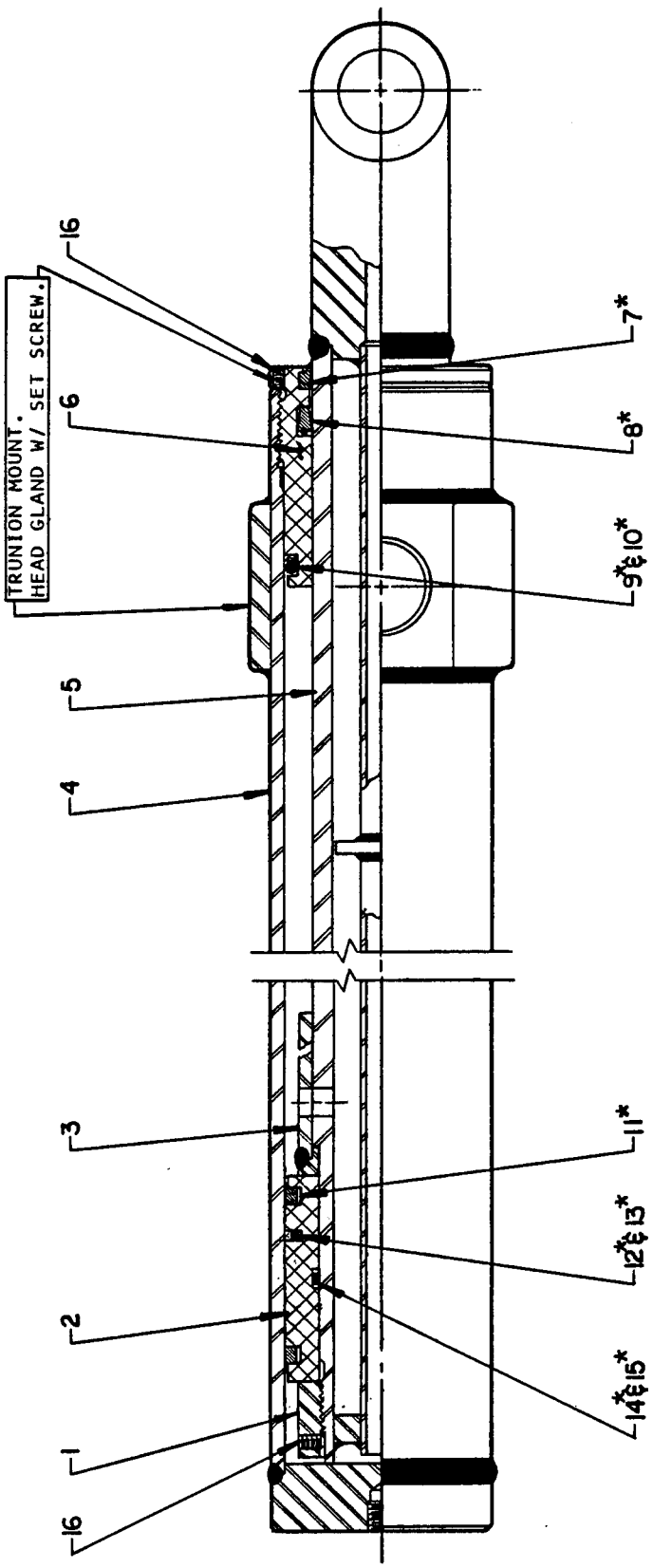


TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC.	REV. 16 JAN., 1996	PART NO.	PLATE NO. D18.02

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PISTON NUT	1
2			PISTON	1
3			SPACER	1
4			CASE	1
5	04-009402		ROD	1
6			HEAD GLAND	1
7*			WIPER	1
8*			ROD SEAL	1
9*			'O' RING	1
10*			BACK-UP RING	1
11*			PISTON RING	2
12*			PISTON SEAL	1
13*			'O' RING	1
14*			'O' RING	1
15*			BACK-UP RING	2
16			SET SCREW	3
*	04-009401		SEAL KIT	1

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009400





NOTE:
* SEAL KIT P/N 04-009401

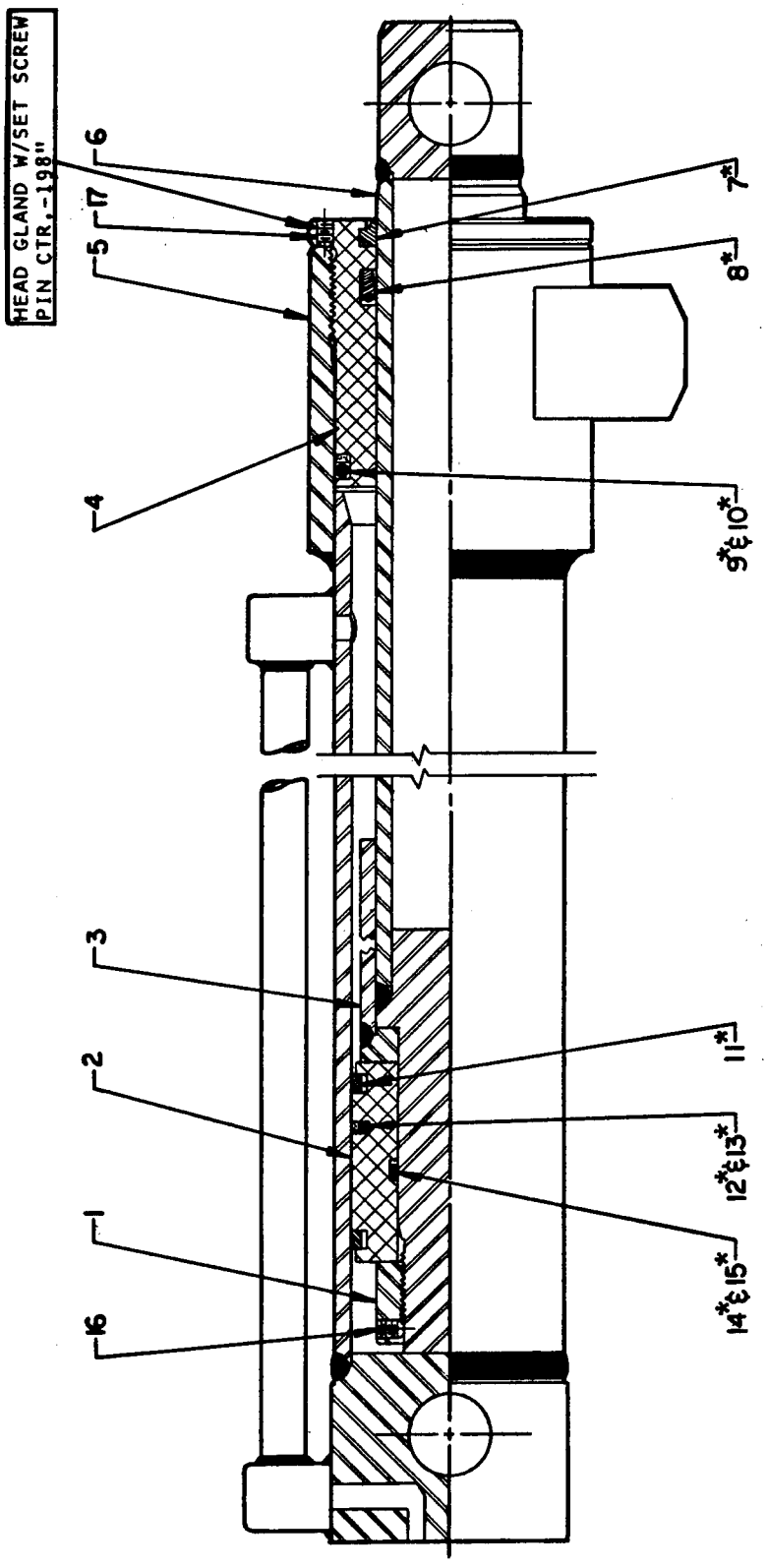
0284/1183

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009400

PARTS LIST

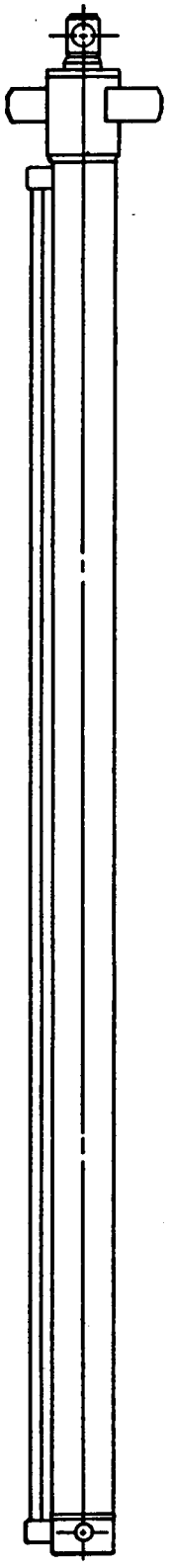
ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	04-002203		PISTON NUT	1
2	04-002205		PISTON	1
3	04-002202		SPACER	1
4	04-002204		HEAD GLAND	1
5			CASE	1
6			ROD	1
7*			WIPER	1
8*			ROD SEAL	1
9*			'O' RING	1
10*			BACK-UP RING	1
11*			PISTON RING	2
12*			PISTON SEAL	1
13*			'O' RING	1
14*			'O' RING	1
15*			BACK UP RING	2
16			SET SCREW	1
17			SET SCREW	1
*	04-002201		SEAL KIT	1

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009700



NOTE:

* SEAL KIT P/N 04-002201
OLD STYLE CYLINDER #04-002200 IS REPLACED BY CYLINDER #04-009700 WHICH ALSO REQUIRES USE OF #01-003600 HOLDING VALVE.



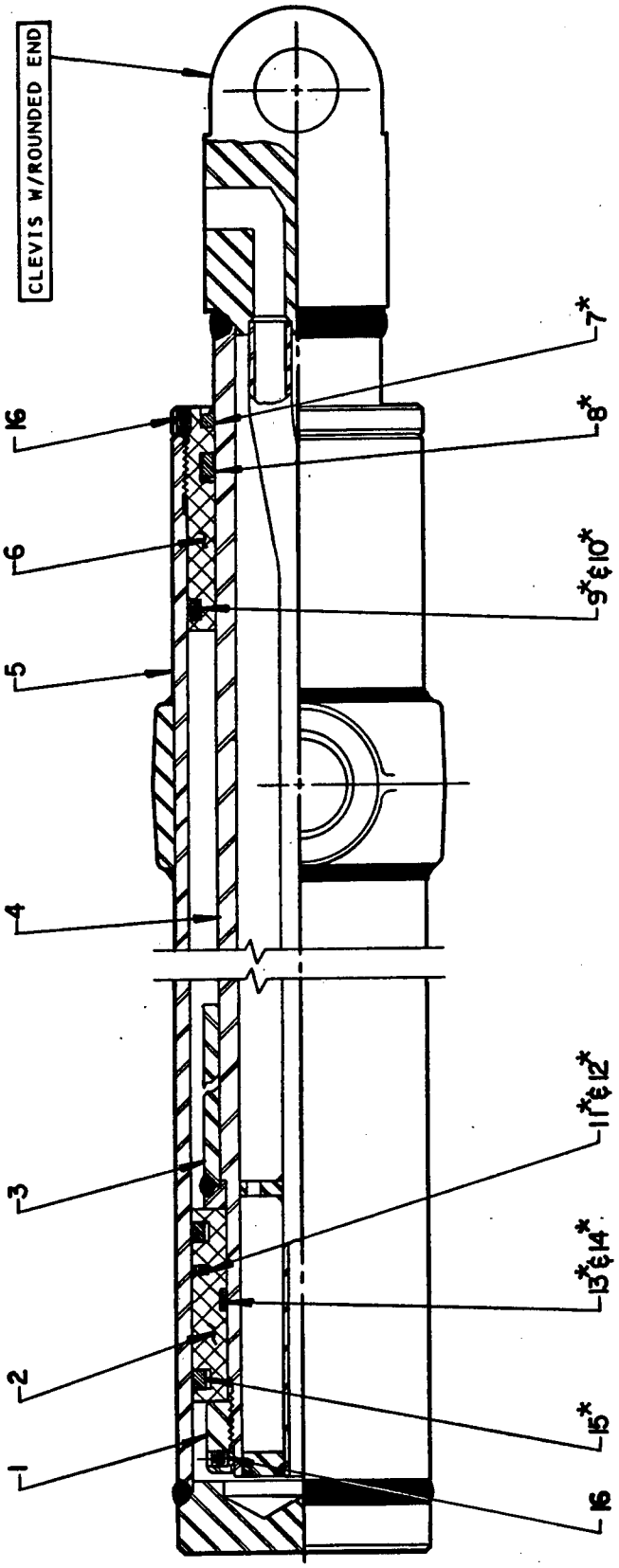
1184/0677

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009700

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PISTON NUT	1
2			PISTON	1
3			SPACER	1
4			ROD	1
5			CASE	1
6	04-001302		HEAD GLAND	1
7*			WIPER	1
8*			ROD SEAL	1
9*			'O' RING	1
10*			BACK-UP RING	1
11*			'O' RING	1
12*			PISTON SEAL	1
13*			'O' RING	1
14*			BACK-UP RING	2
15*	04-001303		PISTON RING	2
16			SET SCREW	2
*	04-001301		SEAL KIT	1

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-001300



NOTE:
*SEAL KIT P/N 04-001301



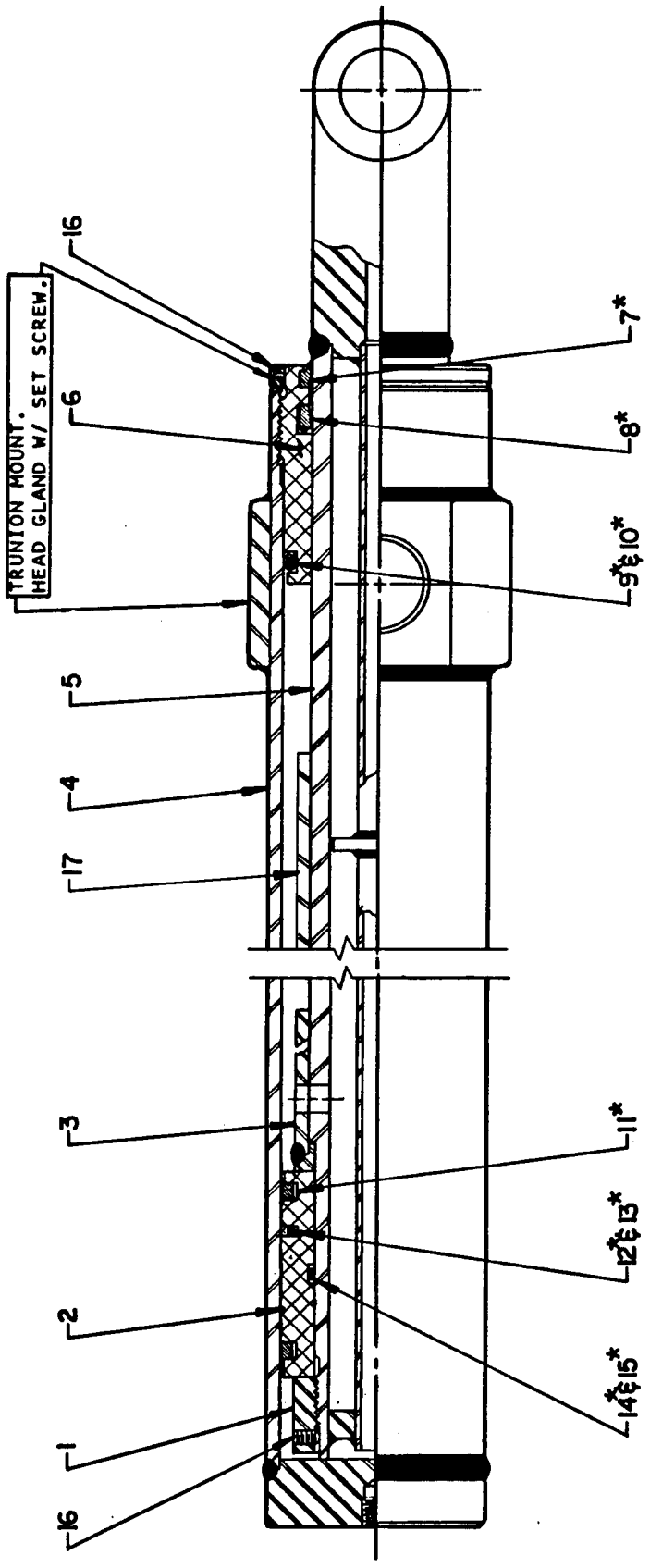
0585/0378

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-001300

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PISTON NUT	1
2			PISTON	1
3			SPACER	1
4			CASE	1
5	04-009402		ROD	1
6			HEAD GLAND	1
7*			WIPER	1
8*			ROD SEAL	1
9*			'O' RING	1
10*			BACK-UP RING	1
11*			PISTON RING	2
12*			PISTON SEAL	1
13*			'O' RING	1
14*			'O' RING	1
15*			BACK-UP RING	2
16			SET SCREW	3
17 .	SBD-2102320		SPACER	1
*	04-009401		SEAL KIT	

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009400-3





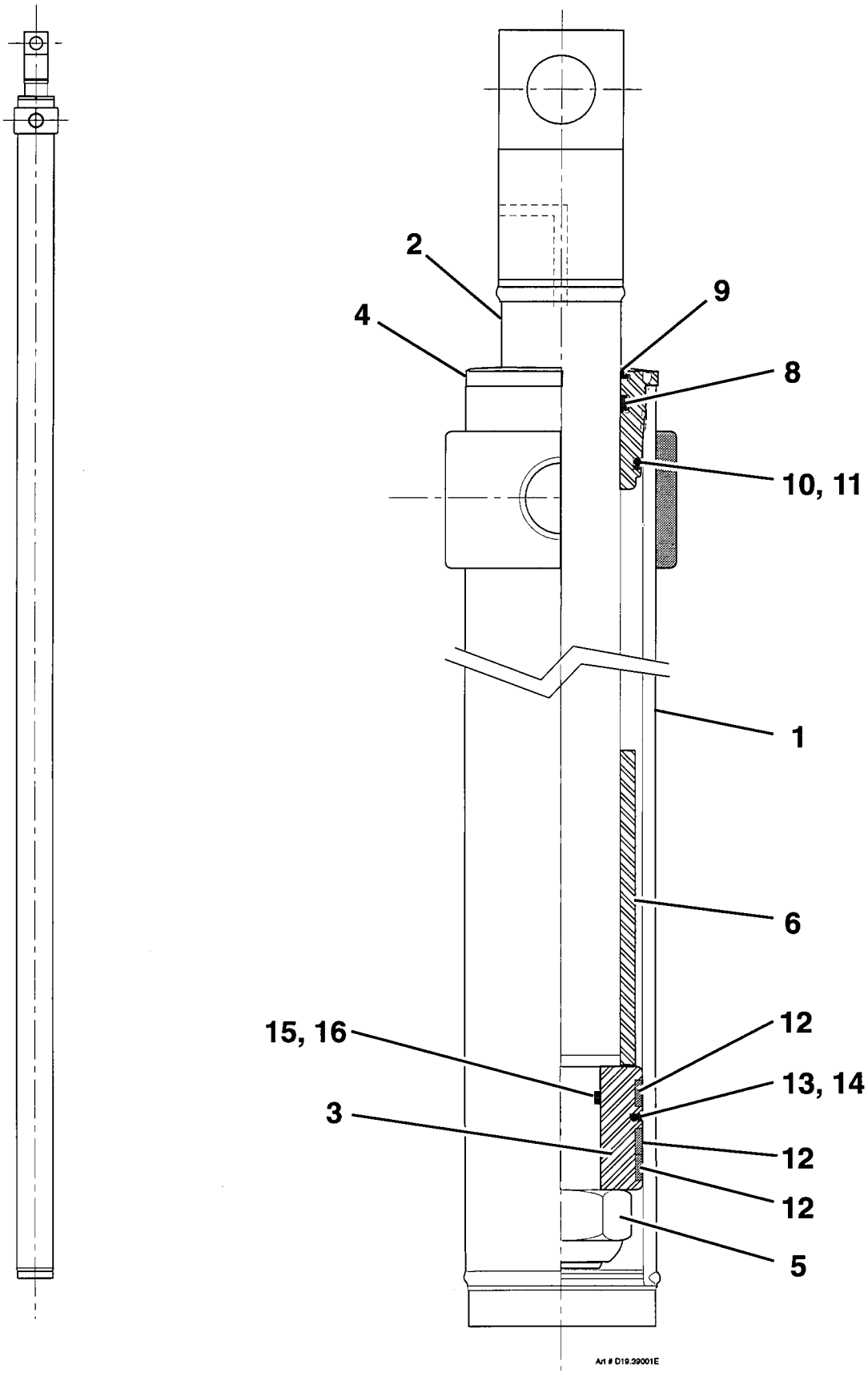
NOTE:
* SEAL KIT P/N 04-009401

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009400-3

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04036100SH" 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	04-036101		SEAL KIT	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			"O"-RING	1
11			RING, BACKUP	1
12			RING, PISTON WEAR	3
13			"O"-RING	1
14			SEAL, PISTON	1
15			"O"-RING	1
16			WASHER, BACKUP	1

TITLE	TELESCOPE CYLINDER, 180" (4.57 M) STROKE	
PLATE NO. D19.39	**SIMON AERIALS INC.** NEW 27 APR., 1994	PART NO. 04-036100

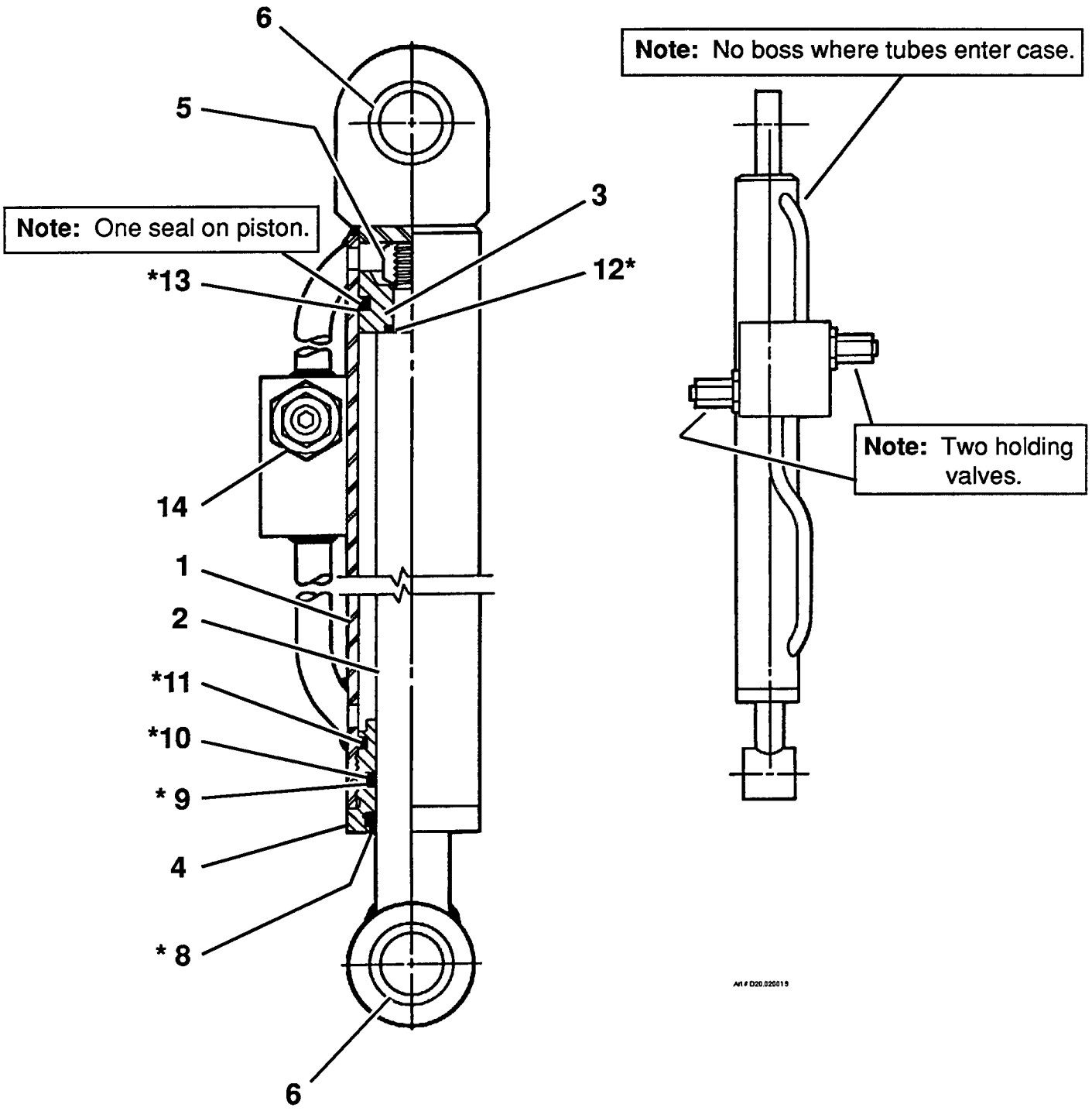


TITLE	TELESCOPE CYLINDER, 180" (4.57 M) STROKE		
SIMON AERIALS INC. NEW 27 APR., 1994	PART NO. 04-036100	PLATE NO. D19.39	

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

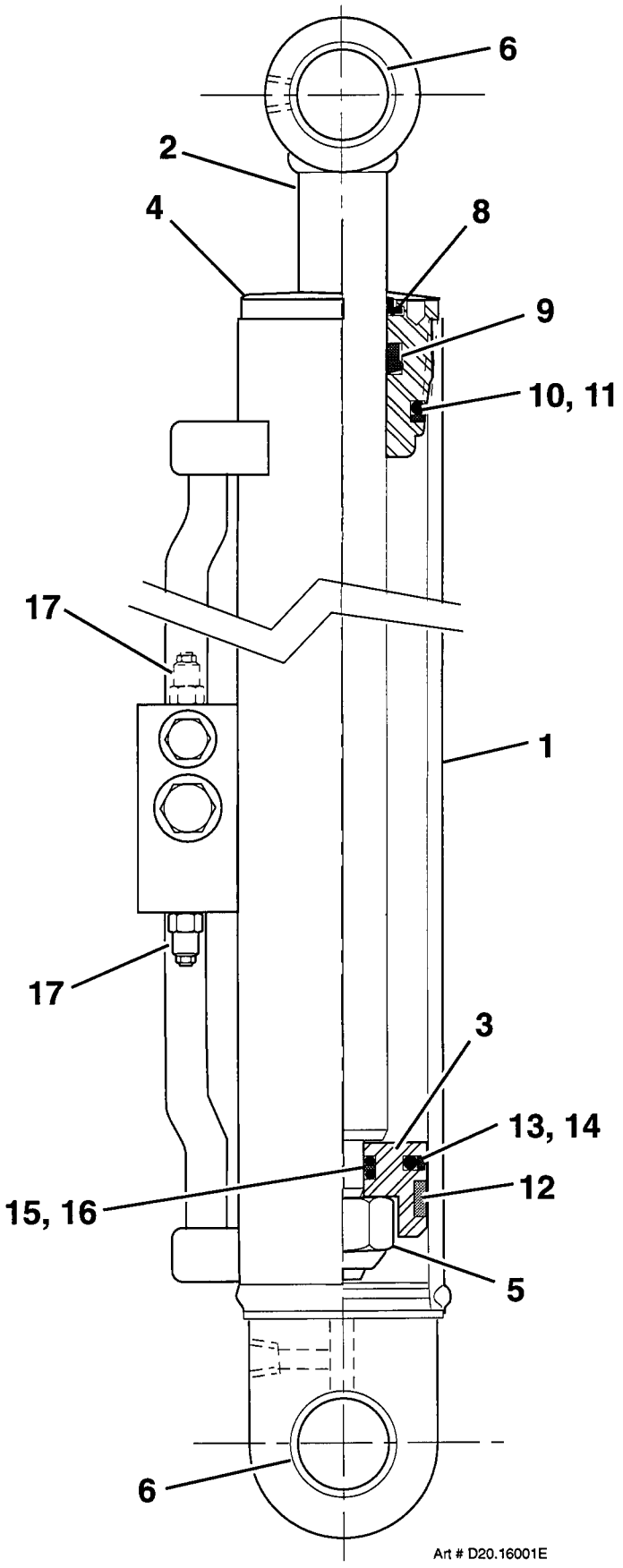


TITLE	SLAVE LEVELING CYLINDER, 17.8" (.45 M) STROKE		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 04-007300	PLATE NO. D20.02	

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

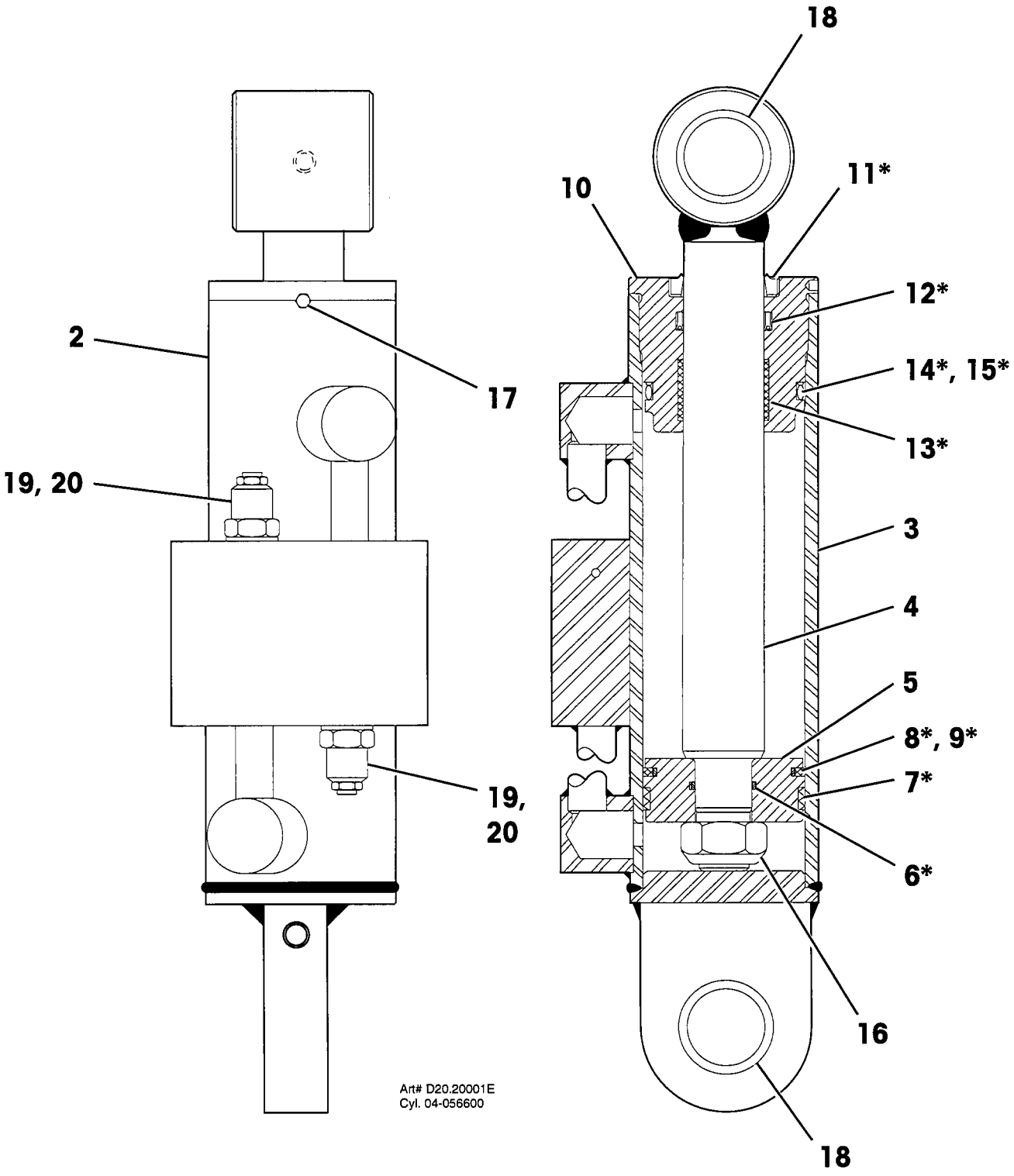
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04056600" stamped on cylinder wall.	
1			SLAVE LEVEL CYLINDER ASSEMBLY	1
2	04-056600		SLAVE LEVEL CYLINDER	1
3			CASE, CYLINDER (Barrel Assembly)	1
4			ROD, CYLINDER	1
5			PISTON ASSEMBLY	1
6	*		"O"-RING	1
7	*		RING, PISTON WEAR	1
8	*		SEAL, PISTON	1
9	*		WASHER, BACKUP	1
10			GLAND, HEAD (Rod Bearing Assembly)	1
11	*		WIPER, ROD	1
12	*		SEAL, ROD	1
13	*		RING, ROD WEAR	1
14	*		"O"-RING	1
15	*		RING, BACKUP	1
16			NUT, PISTON ROD	1
17			SCREW, ROD BEARING LOCKING	1
18			BUSHING	4
19	01-227200		VALVE, COUNTERBALANCE (marked "CBCB-LHN") (factory set at 3000 psi [207 bar] [211 kg/ cm^2])	2
20	01-227201		SEAL KIT, COUNTERBALANCE VALVE	1
			The following item **is not** part of the cylinder assembly:	
21	04-056301		SEAL KIT (not for use with water-glycol hydraulic fluid) **Note:** Items in kit identified by asterisk (*).	1

TITLE

SLAVE LEVEL CYLINDER, 17-3/4" (.45 M) STROKE

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
D20.	20	01	-	30 APR., 1997	04-056600

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.
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

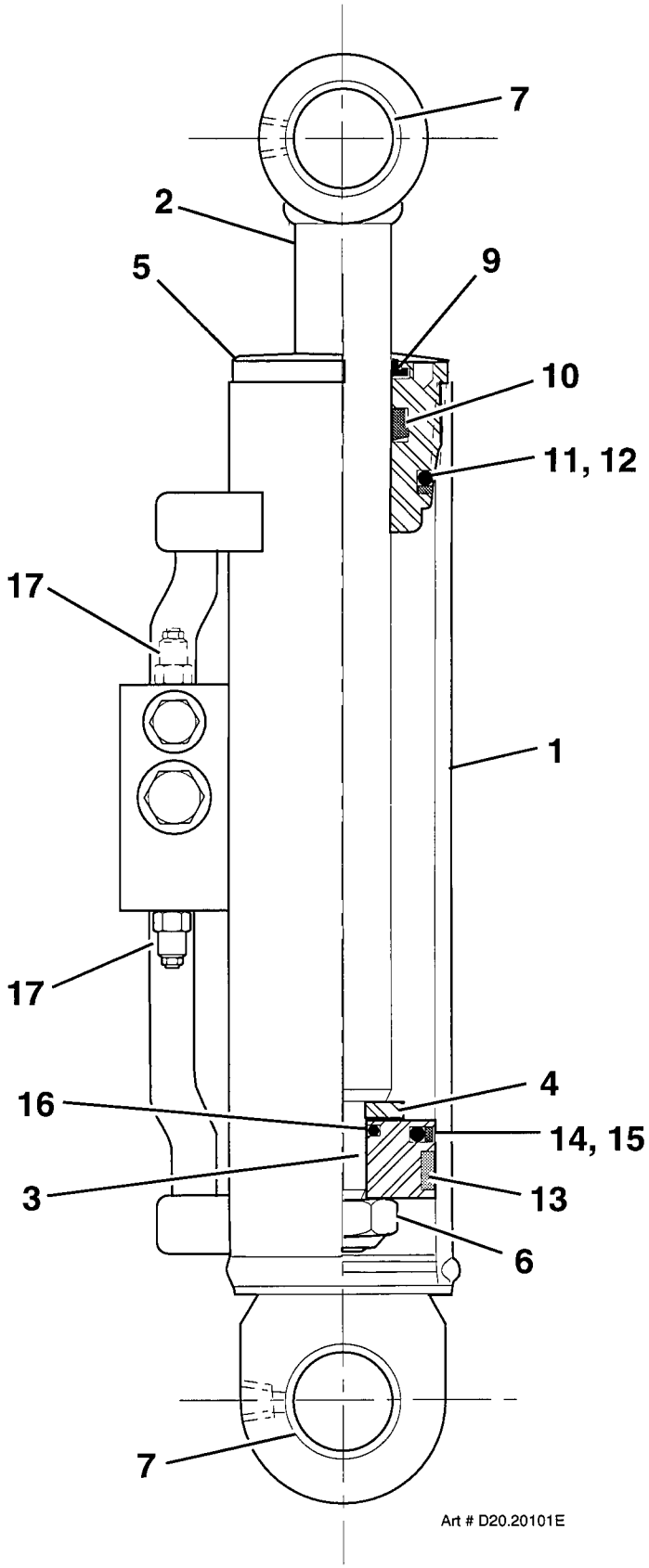
SLAVE LEVEL CYLINDER, 17-3/4" (.45 M) STROKE

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
04-056600	-	30 APR., 1997	D20.	20	01

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**-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, 7" (17.8 CM) STROKE		
PLATE NO. D20.201	**SIMON AERIALS INC.**	NEW 22 JUN., 1994	PART NO. 04-039000

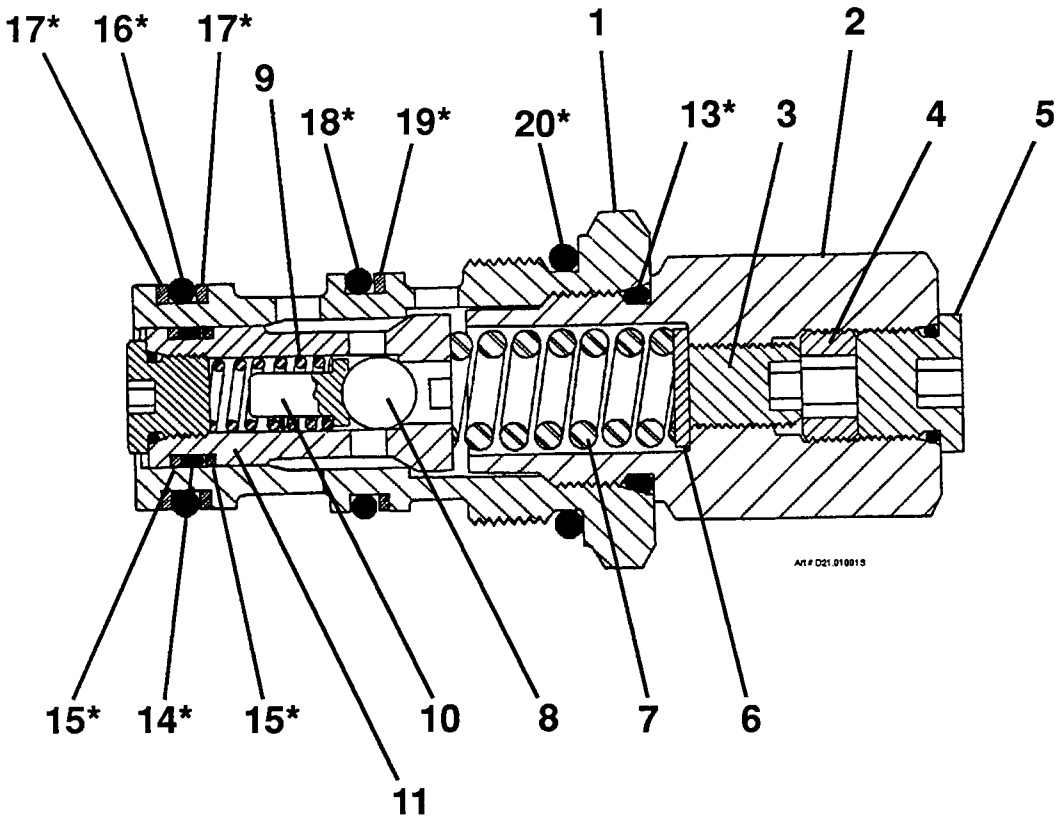


TITLE	SLAVE LEVEL CYLINDER, 7" (17.8 CM) STROKE		
SIMON AERIALS INC. NEW 22 JUN., 1994		PART NO. 04-039000	PLATE NO. D20.201

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

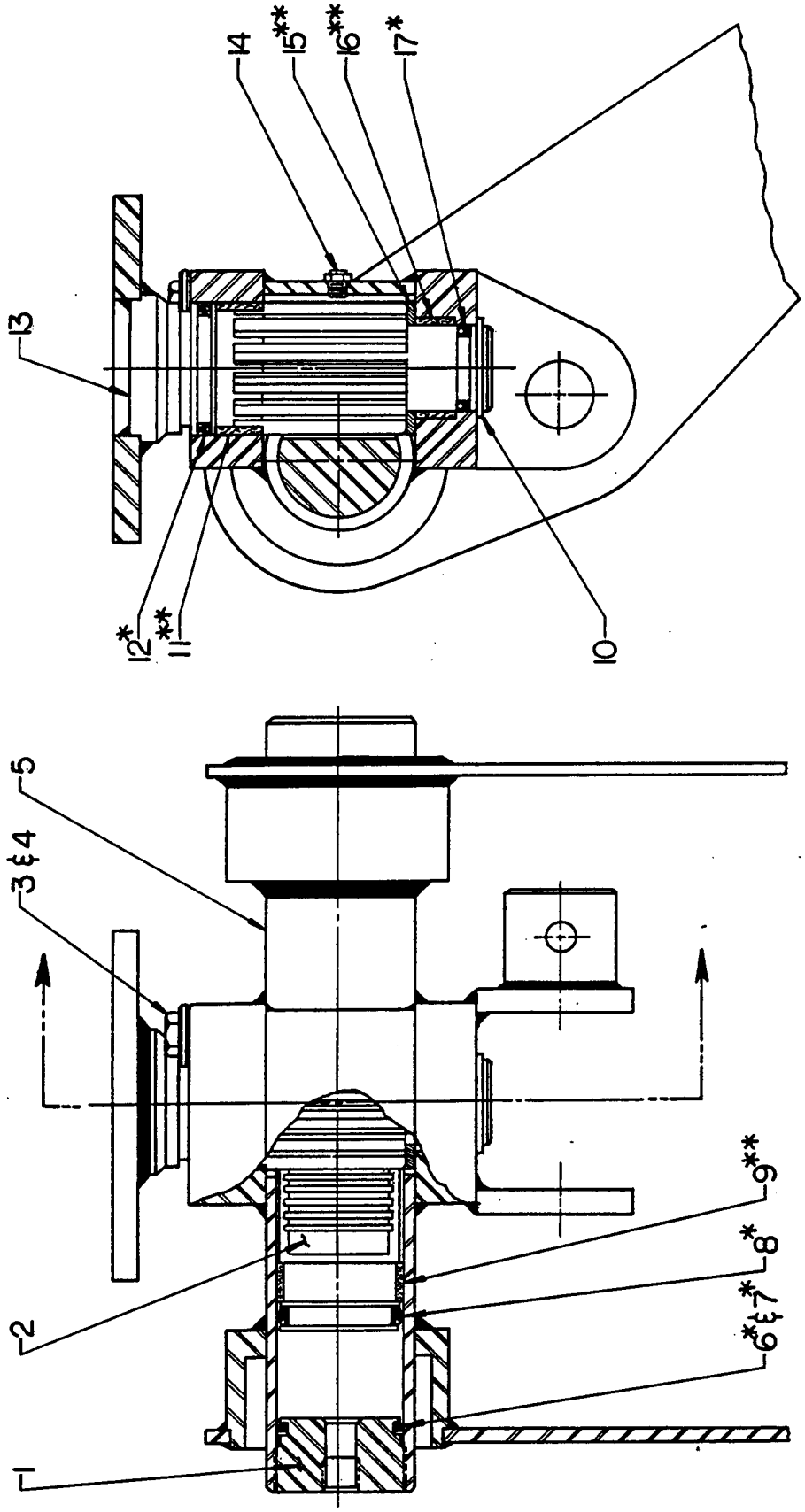


TITLE	HOLDING VALVE, SLAVE LEVELING CYLINDER		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 01-032500	PLATE NO. D21.01	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			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

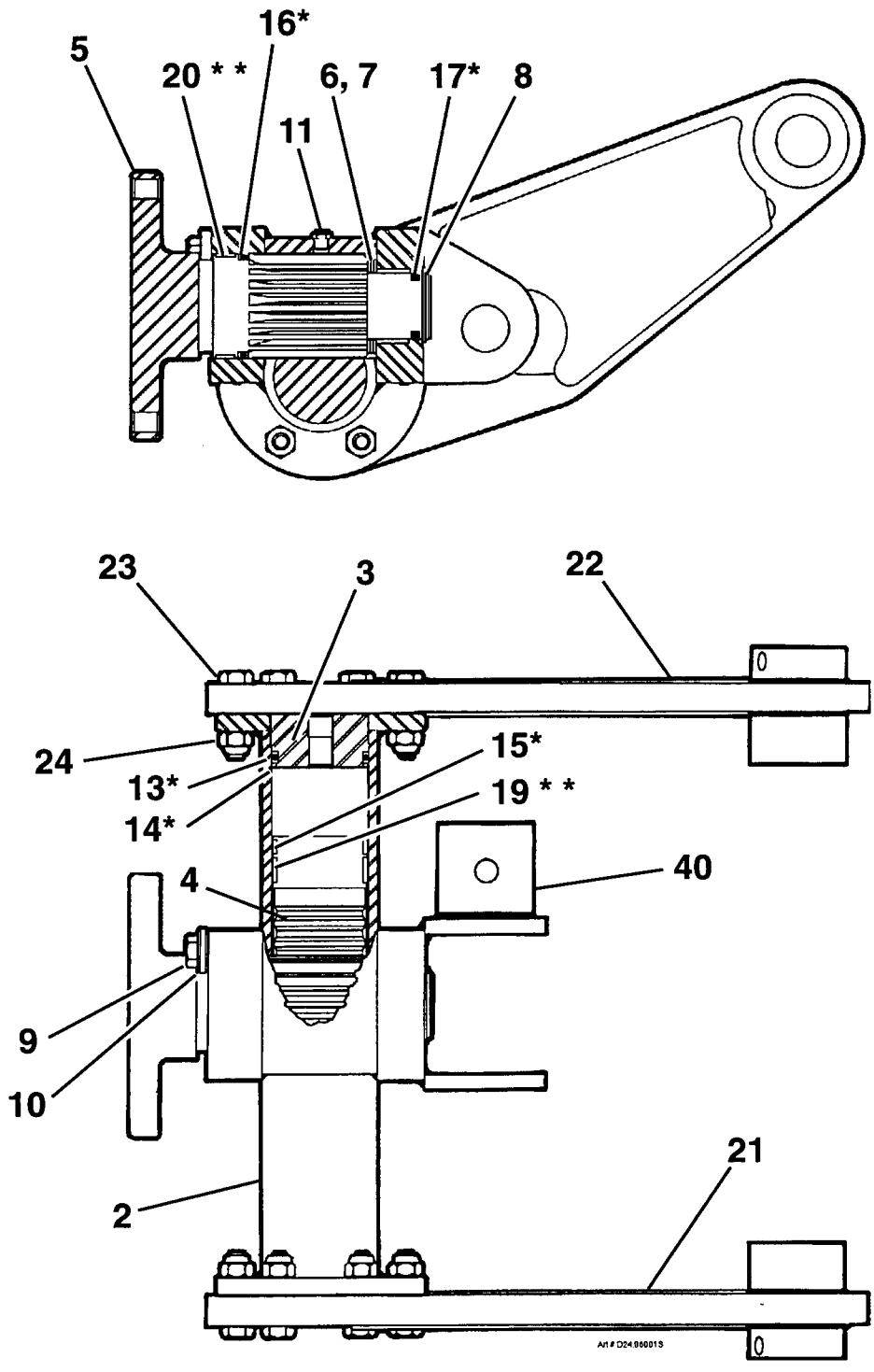
0584/0384

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



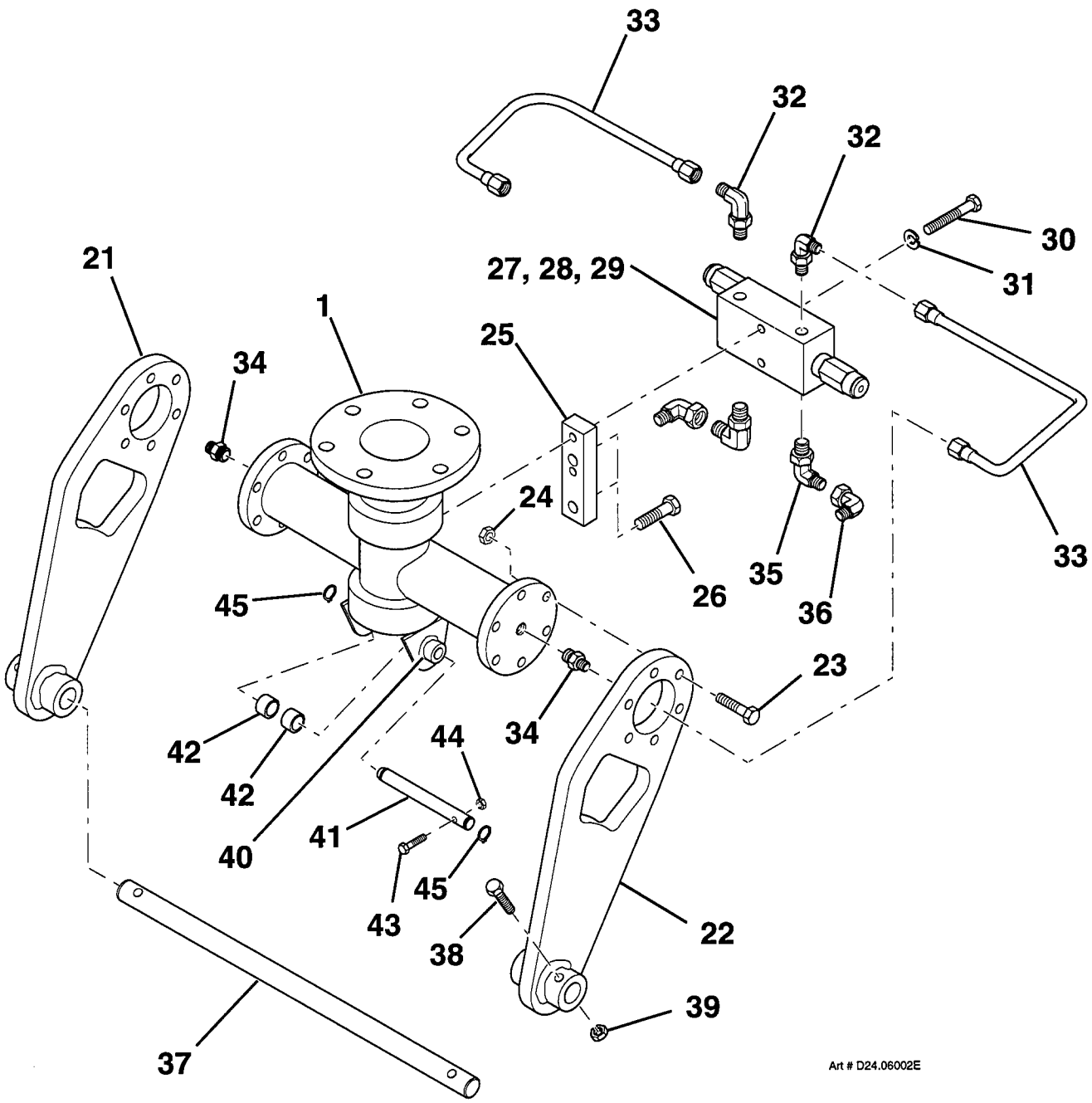
TITLE	PLATFORM ROTARY ACTUATOR (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 22 NOV., 1994 THIS SHEET ONLY	PART NO. 02-010600	PLATE NO. D24.06

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

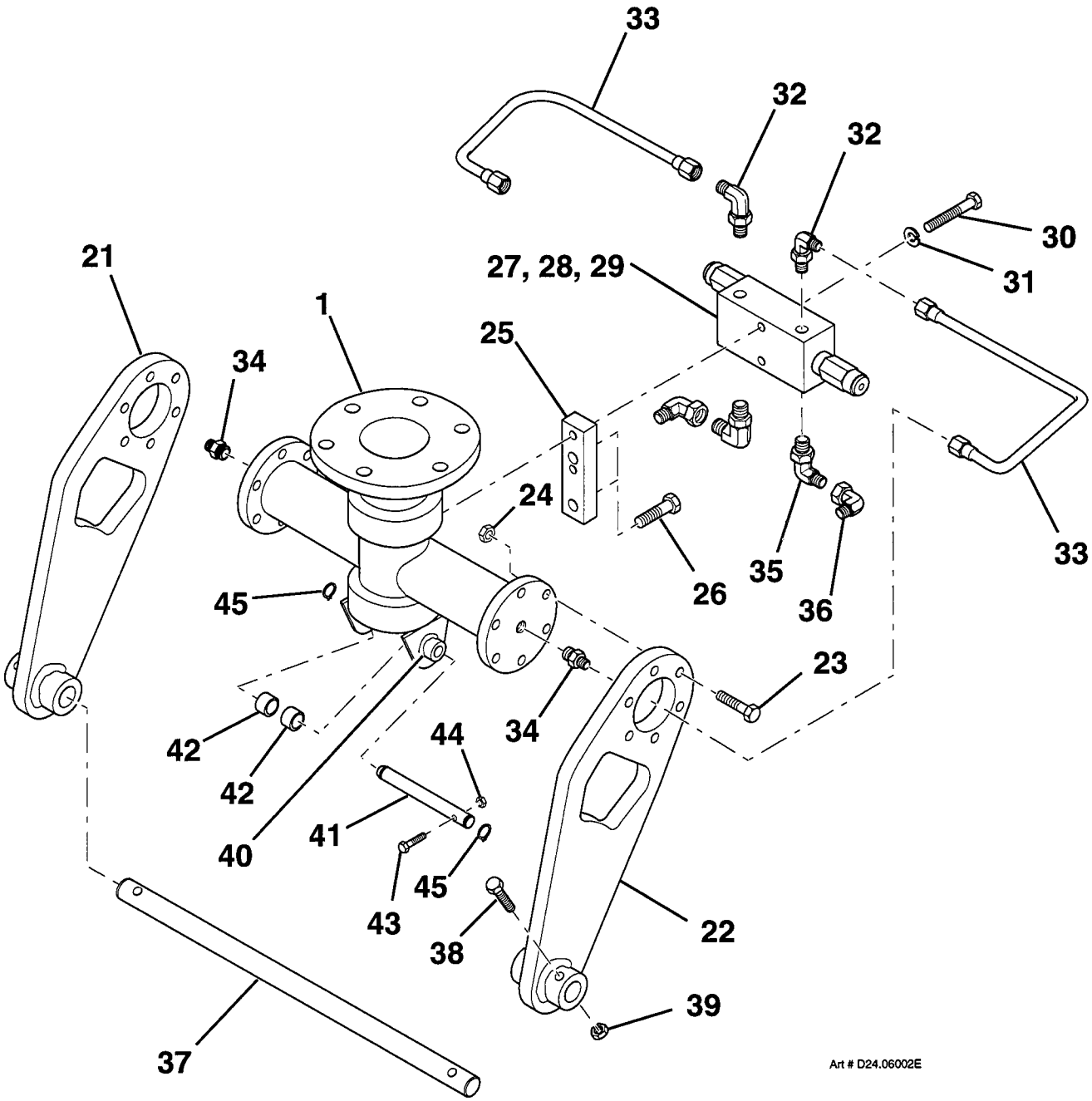


TITLE	PLATFORM ROTARY ACTUATOR (PLATE 2 OF 3)		
SIMON AERIALS INC. REV. 02 MAY, 1994	PART NO. 02-010600	PLATE NO. D24.06	

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

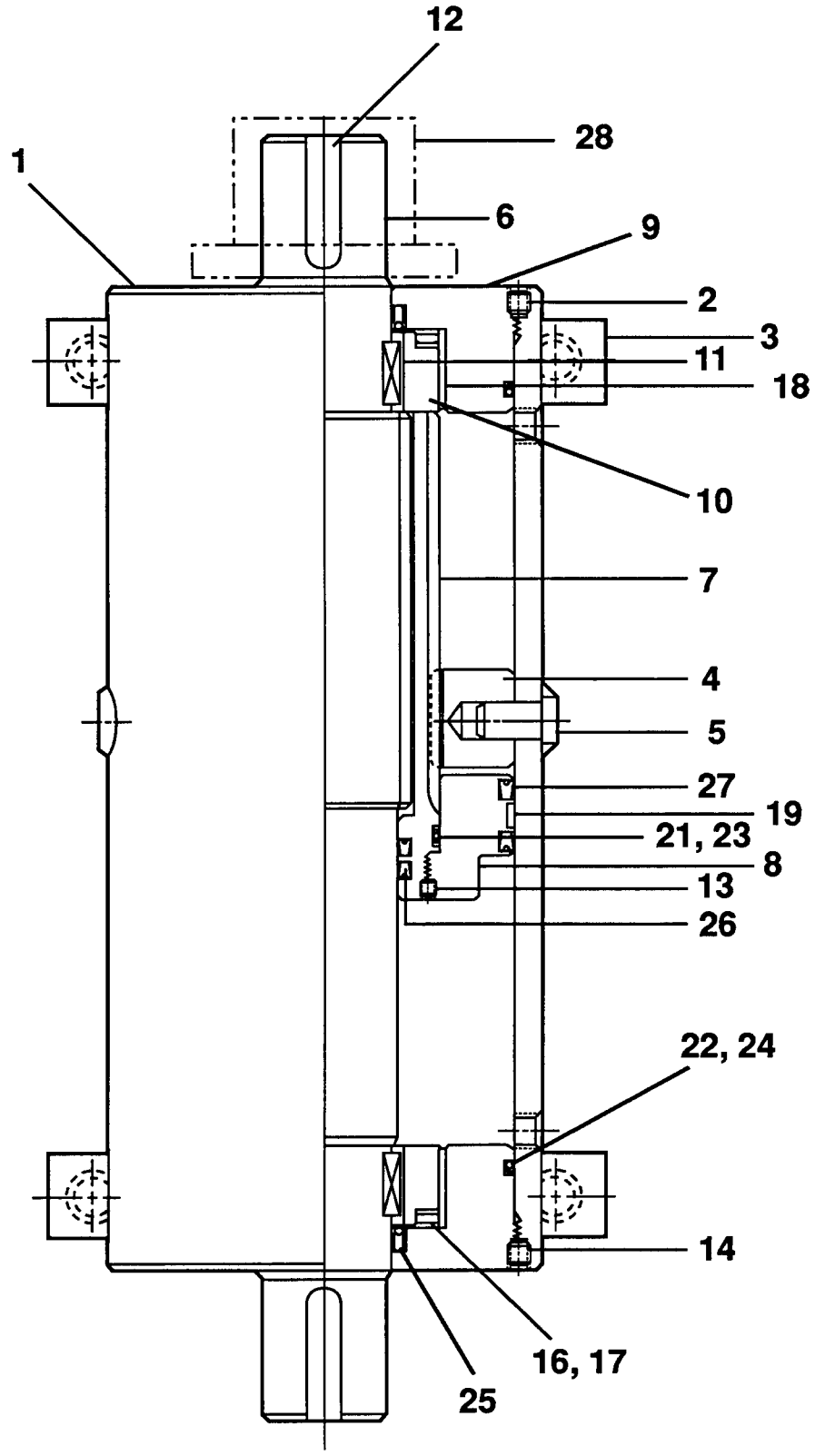


TITLE	PLATFORM ROTARY ACTUATOR (PLATE 3 OF 3)		
SIMON AERIALS INC. REV. 02 MAY, 1994		PART NO. 02-010600	PLATE NO. D24.06

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			ROTARY ACTUATOR ASSEMBLY	1
2			HOUSING	1
3			FOOT 2	
4			RING GEAR	1
5			PIN 6	
6			SHAFT	1
7			SLEEVE	1
8			PISTON	1
9			END CAP	2
10			BEARING	2
11			KEY 2	
12			DRIVE KEY	2
13			SET SCREW	1
14			SET SCREW	2
15			BEARING KIT (INCLUDES ITEMS 16, 17, 18)	
16			THRUST BEARING	2
17			THRUST RACE	4
18			BEARING STRIP	2
19			WEAR STRIP	1
20			SEAL KIT (INCLUDES ITEMS 21 THRU 24)	
21			PISTON SEAL	1
22			CAP SEAL	2
23			PISTON BACKUP RING	2
24			CAP BACKUP RING	2
25			SHAFT PACKING	2
26			ROD PACKING	2
27			PISTON PACKING	2
28			SPLIT TAPER BUSHING	2

TITLE	ROTARY ACTUATOR				
PLATE NO.	D24.08	SIMON AERIALS INC.	REV. 11/21/90	PART NO.	02-007800



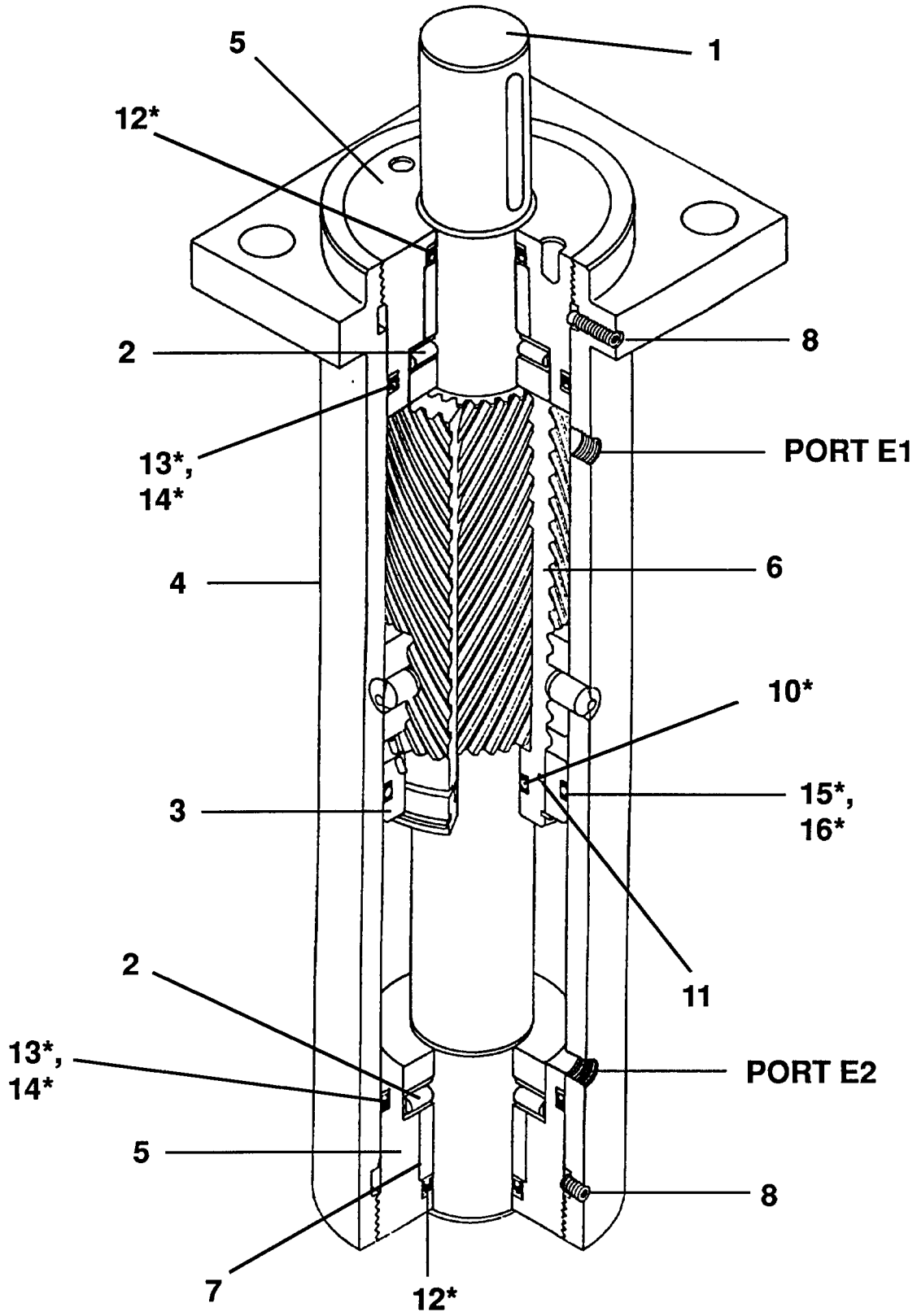
TITLE	ROTARY ACTUATOR		
SIMON AERIALS INC. REV. 11/21/90	PART NO. 02-007800	PLATE NO. D24.08	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			SHAFT	1
2			BEARING, NEEDLE THRUST	4
3			PISTON	1
4			HOUSING	1
5			CAP, END	2
6			SLEEVE, PISTON	1
7			BEARING, JOURNAL	2
8			SCREW, SET	4
9	02-007301		KIT, SEAL	1
10			SEAL, ROD	2
11			SEAL, STATIC PISTON	1
12			SEAL, SHAFT	2
13			SEAL, END CAP	2
14			BACK-UP RING, END CAP	2
15			SEAL, PISTON	1
16			BACK-UP RING, PISTON	2

TITLE ROTARY ACTUATOR

PLATE NO. D24.09 **SIMON AERIALS INC.** REV. 10/07/91 PART NO. 02-007300

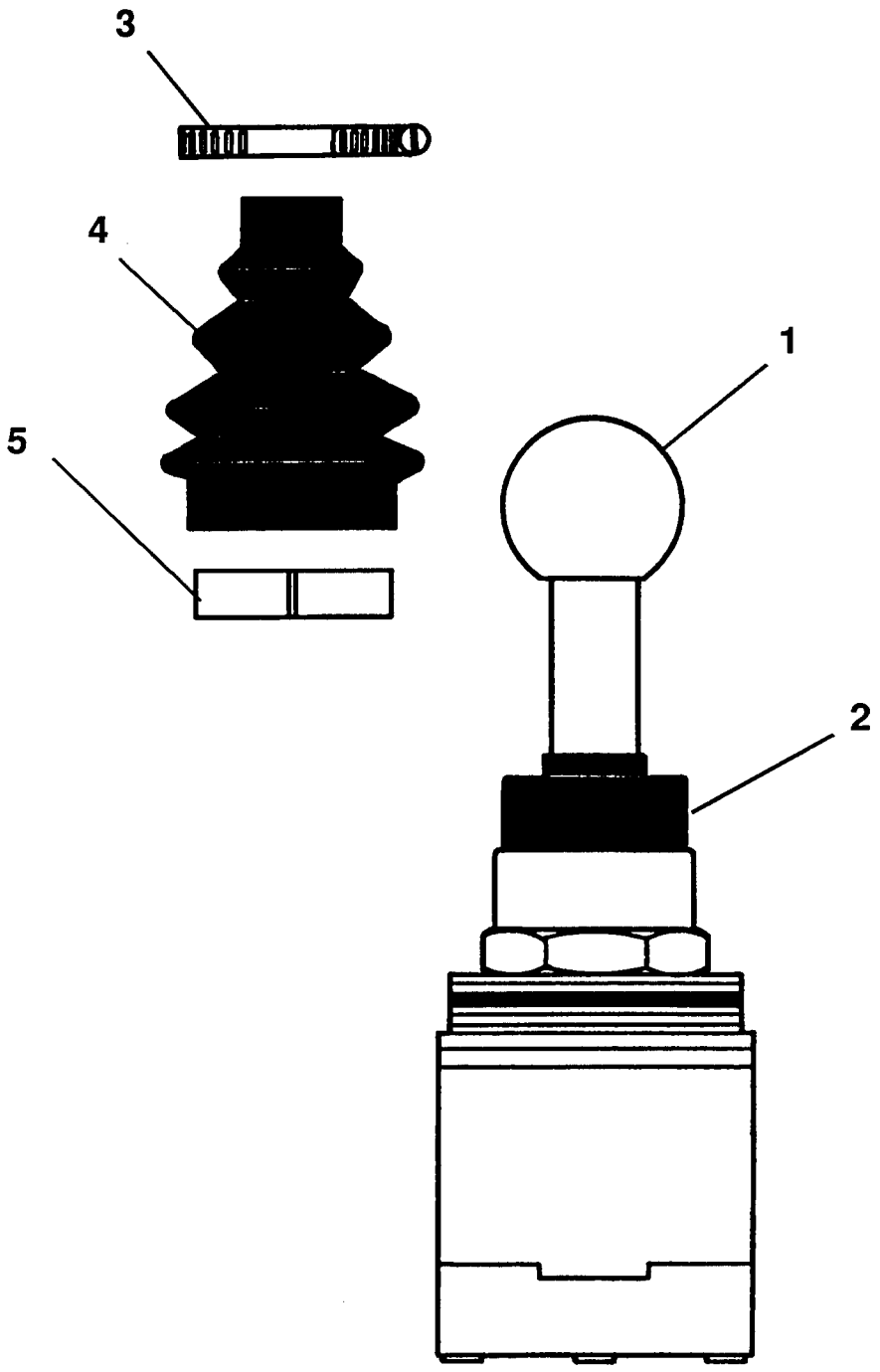


TITLE	ROTARY ACTUATOR		
SIMON AERIALS INC. REV. 10/07/91	PART NO. 02-007300	PLATE NO. D24.09	

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

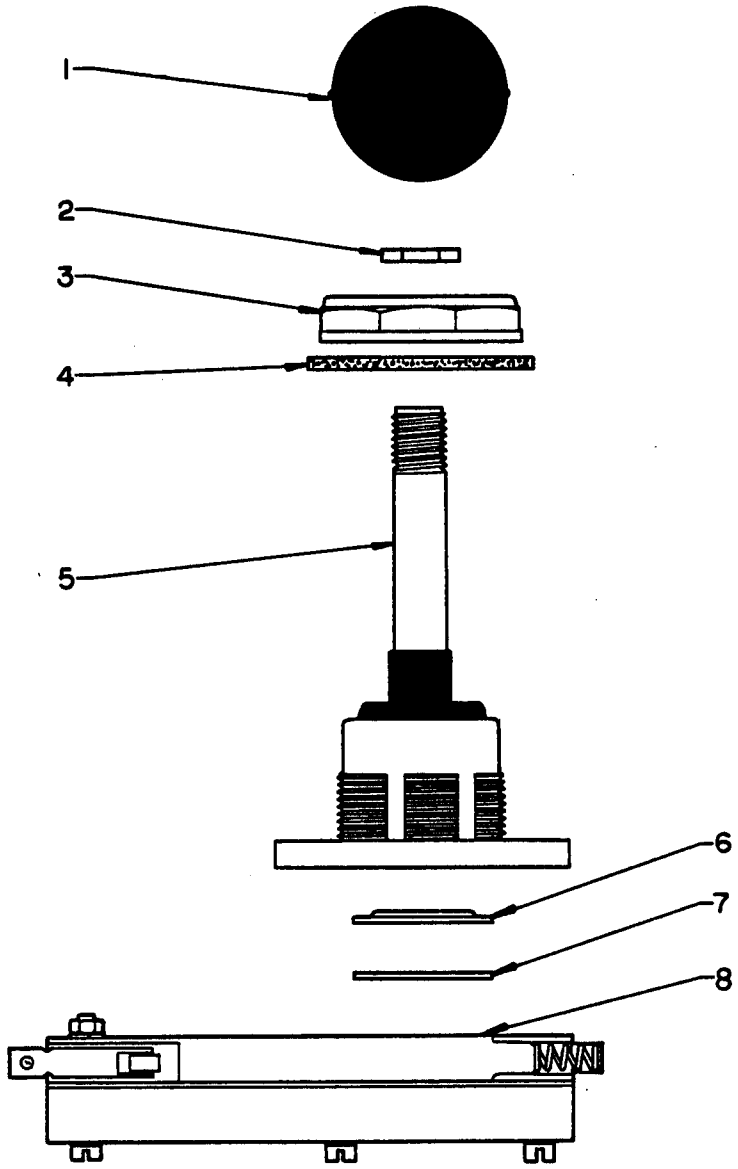


TITLE	JOYSTICK CONTROLLER (5 POSITION)		
SIMON AERIALS INC. REV. 08/08/91	PART NO. 03-021800	PLATE NO. E01.03	

PARTS LIST

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

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



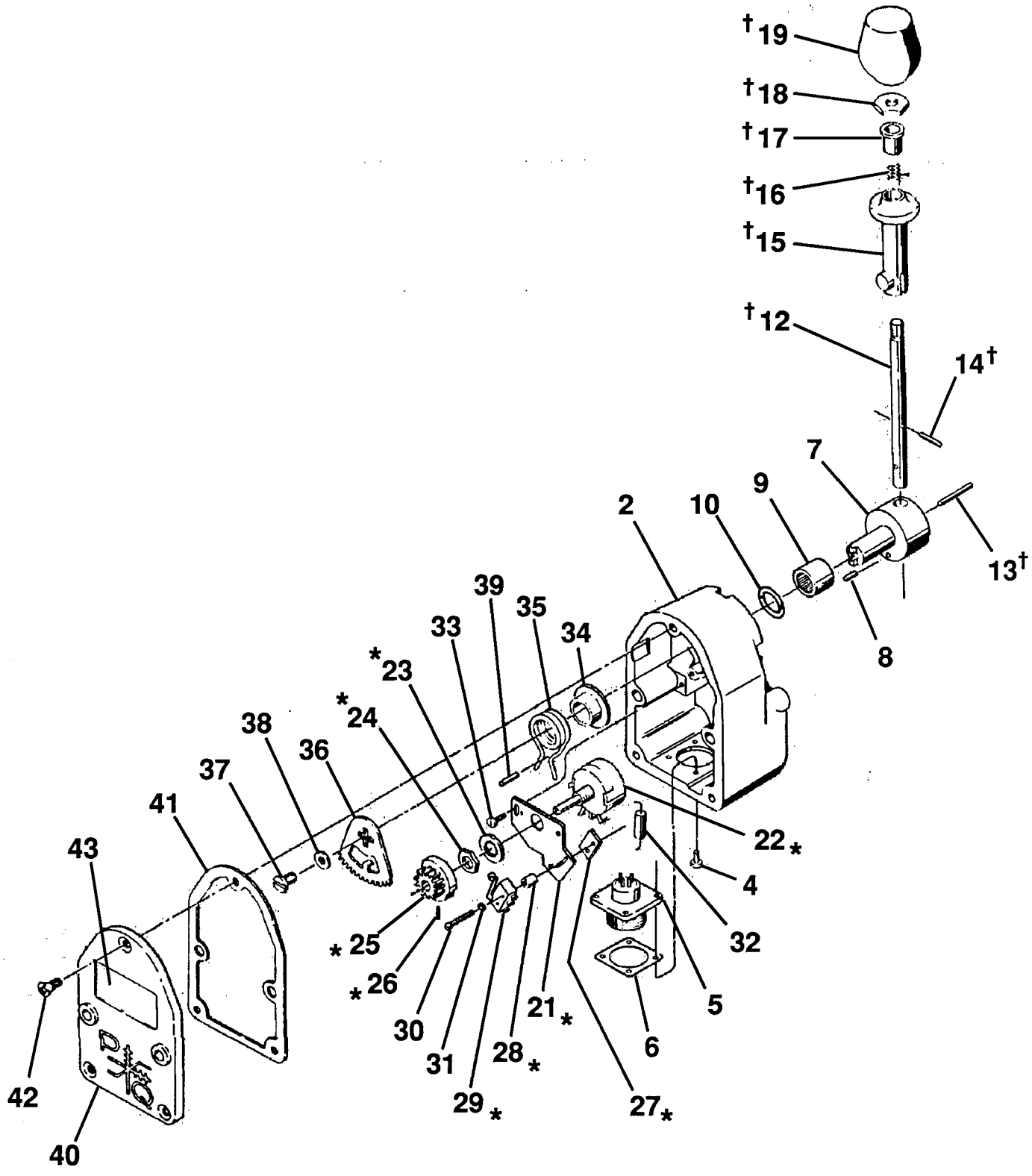
0784/0983

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

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			CONTROLLER ASSEMBLY, JOYSTICK	
	03-027400		Telescope function (supercedes 03-027202)	1
	03-027500		Lift function (supercedes 03-027204)	1
	03-027600		Swing function (supercedes 03-027205)	1
	03-027700		Drive function (supercedes 03-027203)	1
	03-027202		Telescope function (superceded by 03-027400)	1
	03-027204		Lift function (superceded by 03-027500)	1
	03-027205		Swing function (superceded by 03-027600)	1
	03-027203		Drive function (superceded by 03-027700)	1
2			HOUSING, JOYSTICK CONTROLLER	
	03-027226		for Drive or Telescope controller	1
	03-027227		for Lift or Swing controller	1
3			GROMMET, LATHE CUT (not shown)	1
4			MACHINE SCREW, PAN HEAD	4
5			RECEPTACLE, MS	1
6			GASKET, MS CONNECTOR	1
7	03-027230		HANDLE, CONTROL	1
8			PIN, GROOVED	1
9			BEARING	1
10			"O"-RING	1
11	03-027207		HANDLE ASSEMBLY [includes all items with dagger (†)]	1
12	03-027235		EXTENSION, CONTROL HANDLE	1
13			PIN, GROOVED	1
14	03-027218		PIN, GROOVED	1
15	03-027221		SLIDE LOCK, CONTROL HANDLE	1
16	03-027215		SPRING, SLIDE LOCK	1
17	03-027219		SLEEVE, HANDLE	1
18			NUT, HEX	1
19	03-027220		KNOB, BALL	1

TITLE	JOYSTICK CONTROLLER (PLATE 1 OF 2)		
PLATE NO. E01.06	**SIMON AERIALS INC.** REV. 26 APR., 1993		PART NO.



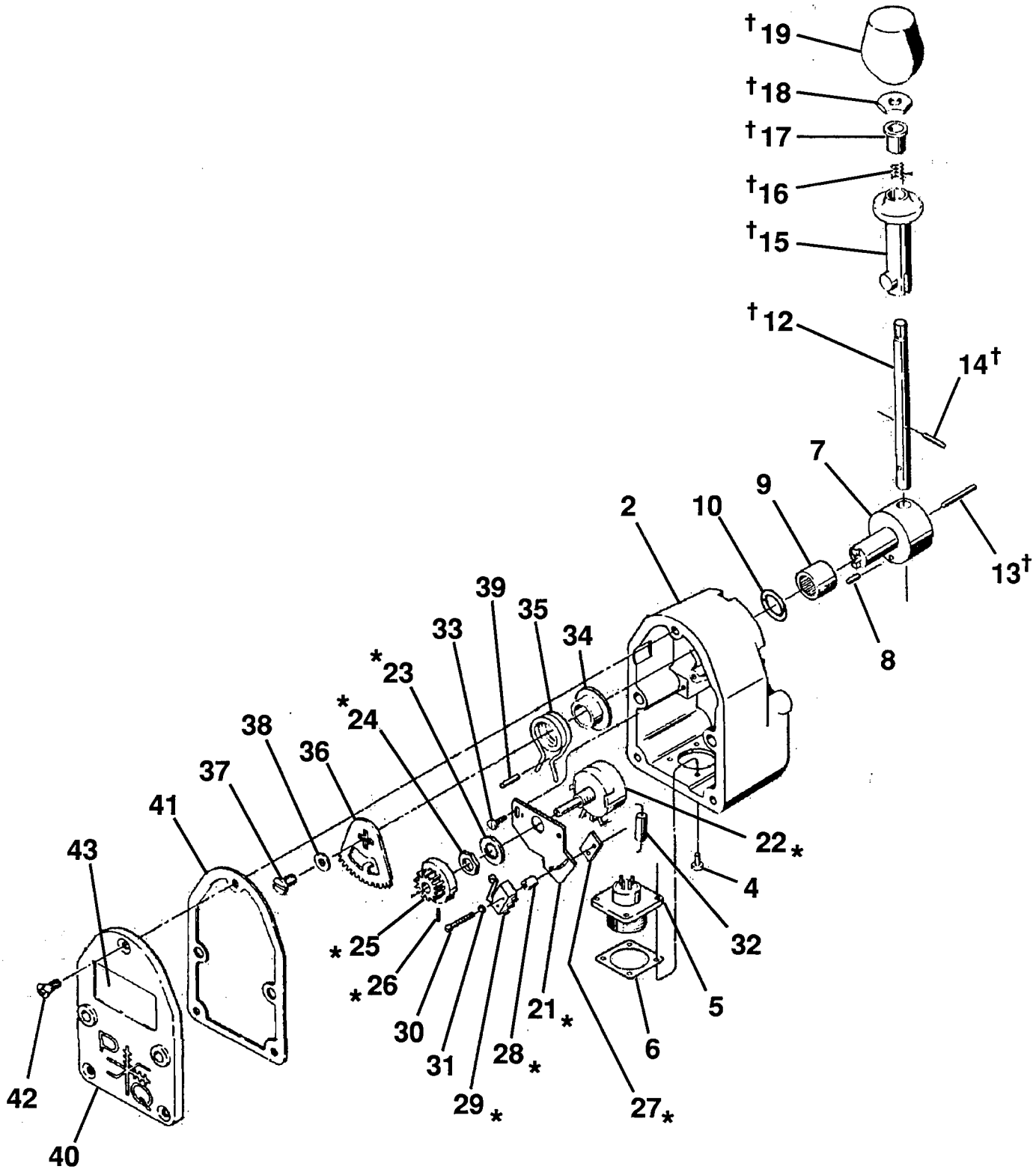
0485 / 0385

TITLE	JOYSTICK CONTROLLER (PLATE 1 OF 2)	
SIMON AERIALS INC. REV. 26 APR., 1993	PART NO.	PLATE NO. E01.06

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
20			ELECTRICAL ASSEMBLY [all items with asterisk (*)]	1
	03-027208		for Telescope controller	1
	03-027209		for Drive controller	1
	03-027210		for Lift controller	1
	03-027211		for Swing controller	1
21			PLATE, POTENTIOMETER MOUNTING	1
22	03-027231		POTENTIOMETER	1
23			LOCK WASHER, INTERNAL TOOTH	1
24			NUT, HEX	1
25			SPUR GEAR AND CAM	1
26			SET SCREW, HEX SOCKET	1
27			PLATE, FASTENER	1
28			SPACER	2
29	03-027217		SWITCH, ROLLER LEVER	1
30			MACHINE SCREW, FILLISTER HEAD	2
31			LOCK WASHER	2
32			RESISTOR	1
33			MACHINE SCREW, FILLISTER HEAD	1
34			GUIDE, SPRING	1
35	03-027232		SPRING, TORSION	1
36			SECTOR, GEAR	1
37			MACHINE SCREW, PAN HEAD	1
38			WASHER, FLAT (SAE)	1
39			PIN, GROOVED	1
40			COVER, END (for Drive or Telescope controller only)	1
41	03-027228		GASKET, HOUSING	1
42			MACHINE SCREW, FLAT HEAD	3
43			TAG, IDENTIFICATION	1

TITLE	JOYSTICK CONTROLLER (PLATE 2 OF 2)		
PLATE NO. E01.06	**SIMON AERIALS INC.** REV. 26 APR., 1993	PART NO.	



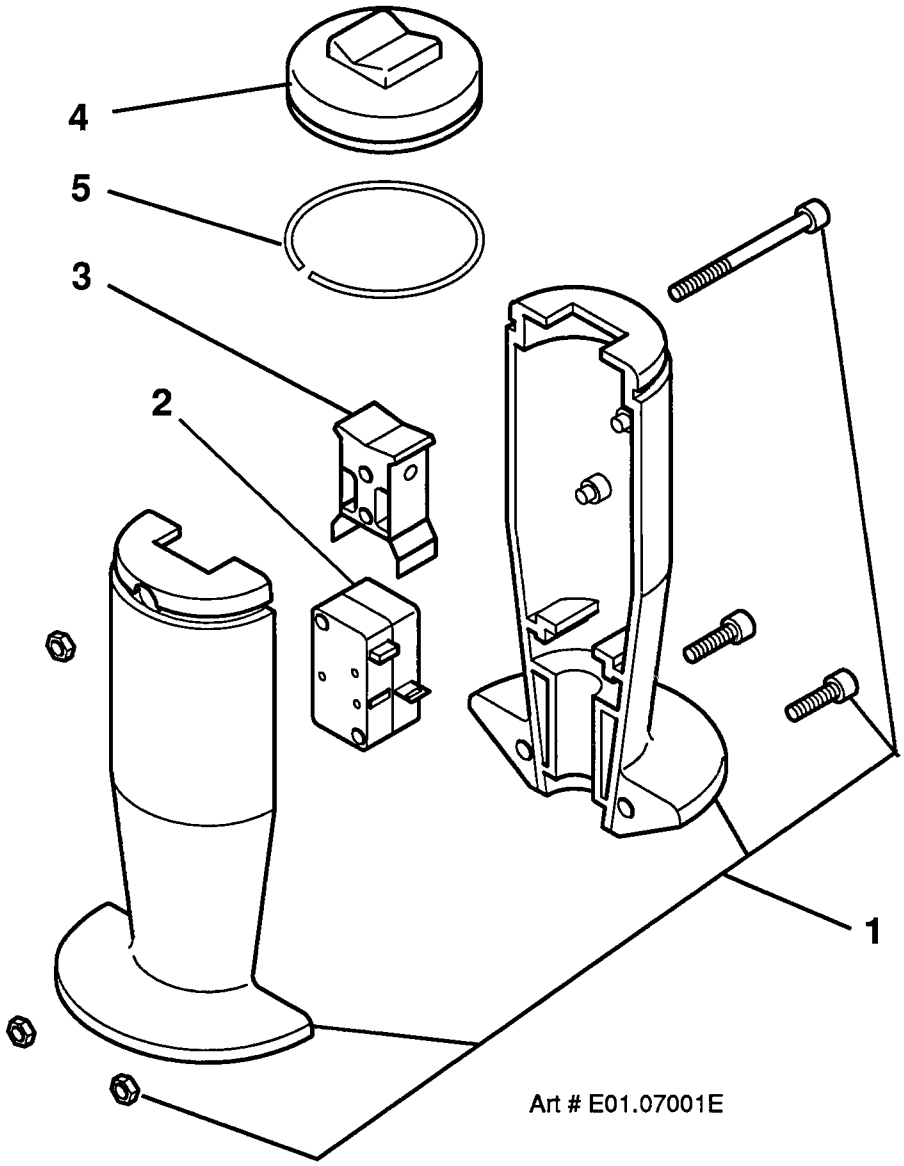
0485 / 0385

TITLE	JOYSTICK CONTROLLER (PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 26 APR., 1993		PART NO.	PLATE NO. E01.06

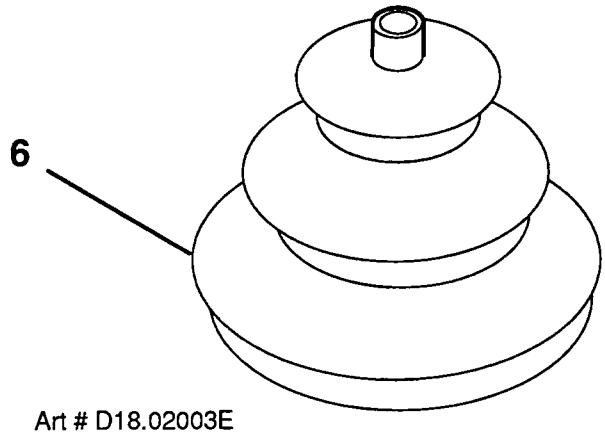
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-402205		HANDLE (includes two halves, screws and nuts)	1
2	03-402204		SWITCH, DRIVE HANDLE (steer switch)	1
3	03-402203		ACTUATOR, DRIVE HANDLE SWITCH (rocker)	1
4	03-402202		BOOT, SWITCH ACTUATOR	1
5	03-402201		RING, BOOT RETAINING	1
6	03-402206		BOOT, DRIVE CONTROL HANDLE	1

TITLE	DRIVE CONTROL HANDLE ASSEMBLY			
PLATE NO. E01.07	**SIMON AERIALS INC.**	REV. 18 FEB., 1993	PART NO.	03-402200



Art # E01.07001E



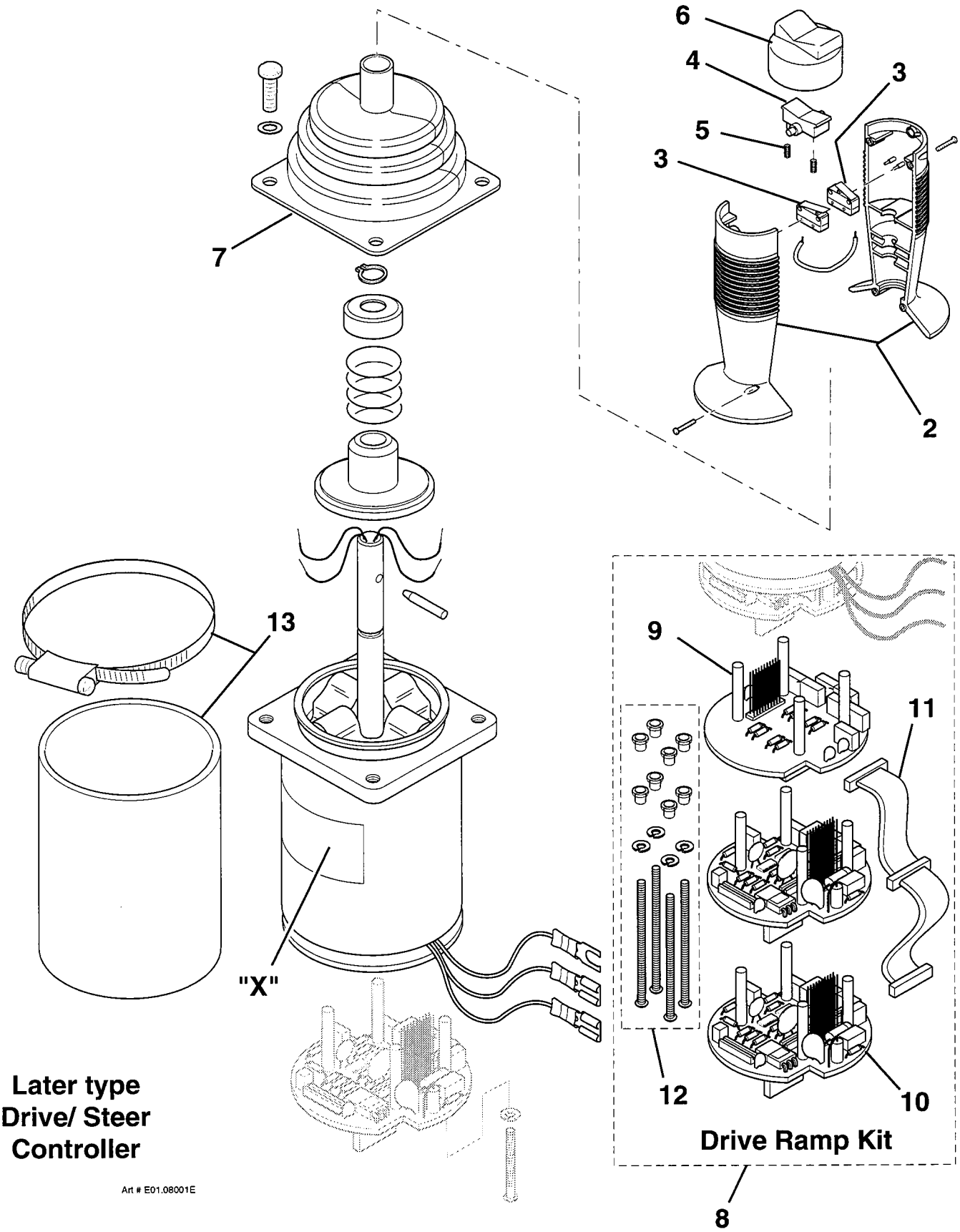
Art # D18.02003E

TITLE			
DRIVE CONTROL HANDLE ASSEMBLY			
SIMON AERIALS INC. REV. 18 FEB., 1993	PART NO. 03-402200	PLATE NO. E01.07	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-491200		CONTROLLER ASSEMBLY, SINGLE AXIS (12 Volt, 33 Hz, with rocker switch in hand grip) (**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.) Both versions of the later type are illustrated on this page. 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



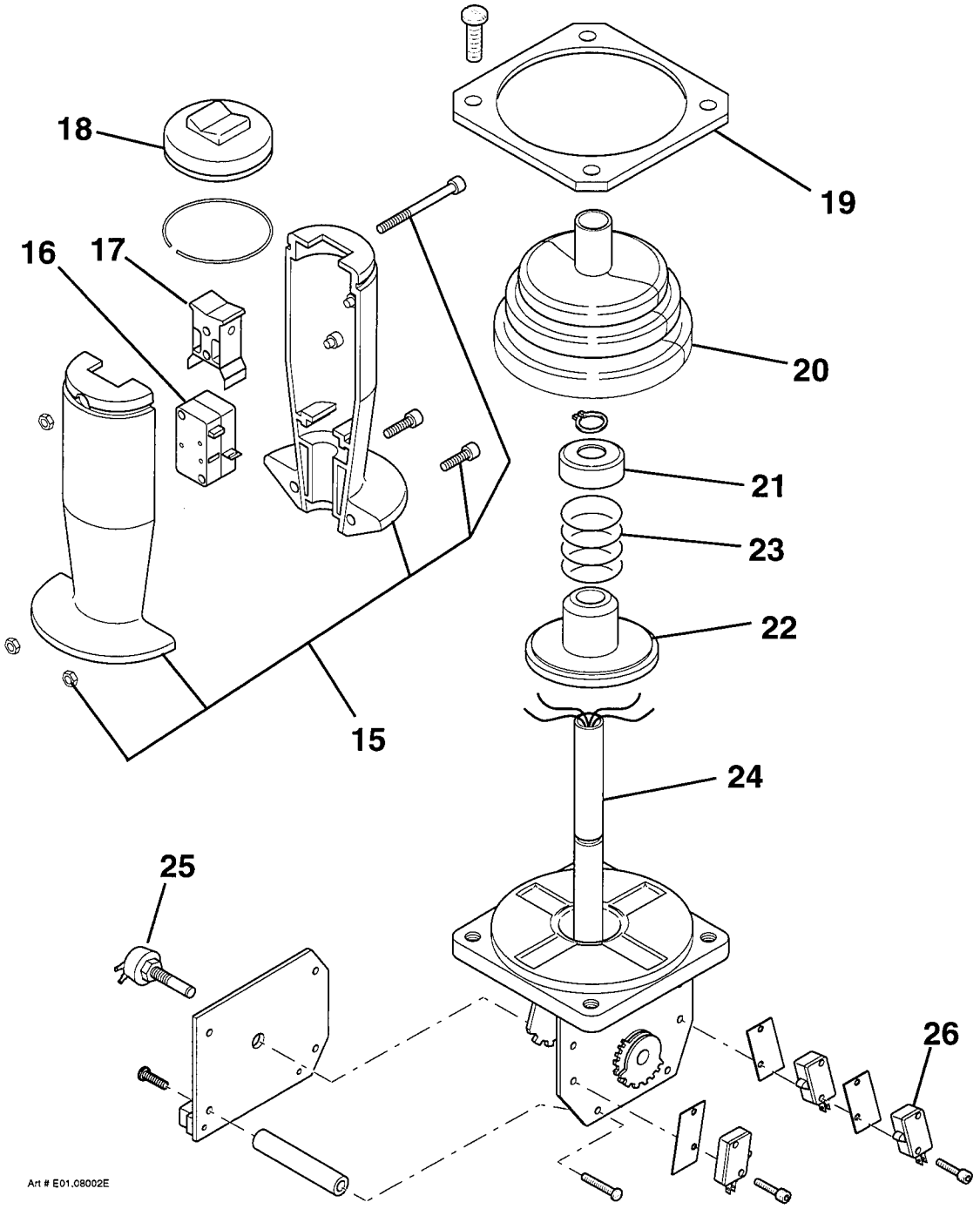
TITLE DRIVE/ STEER CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

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 (12 Volt, 33 Hz, with rocker switch in hand grip) (**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) (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

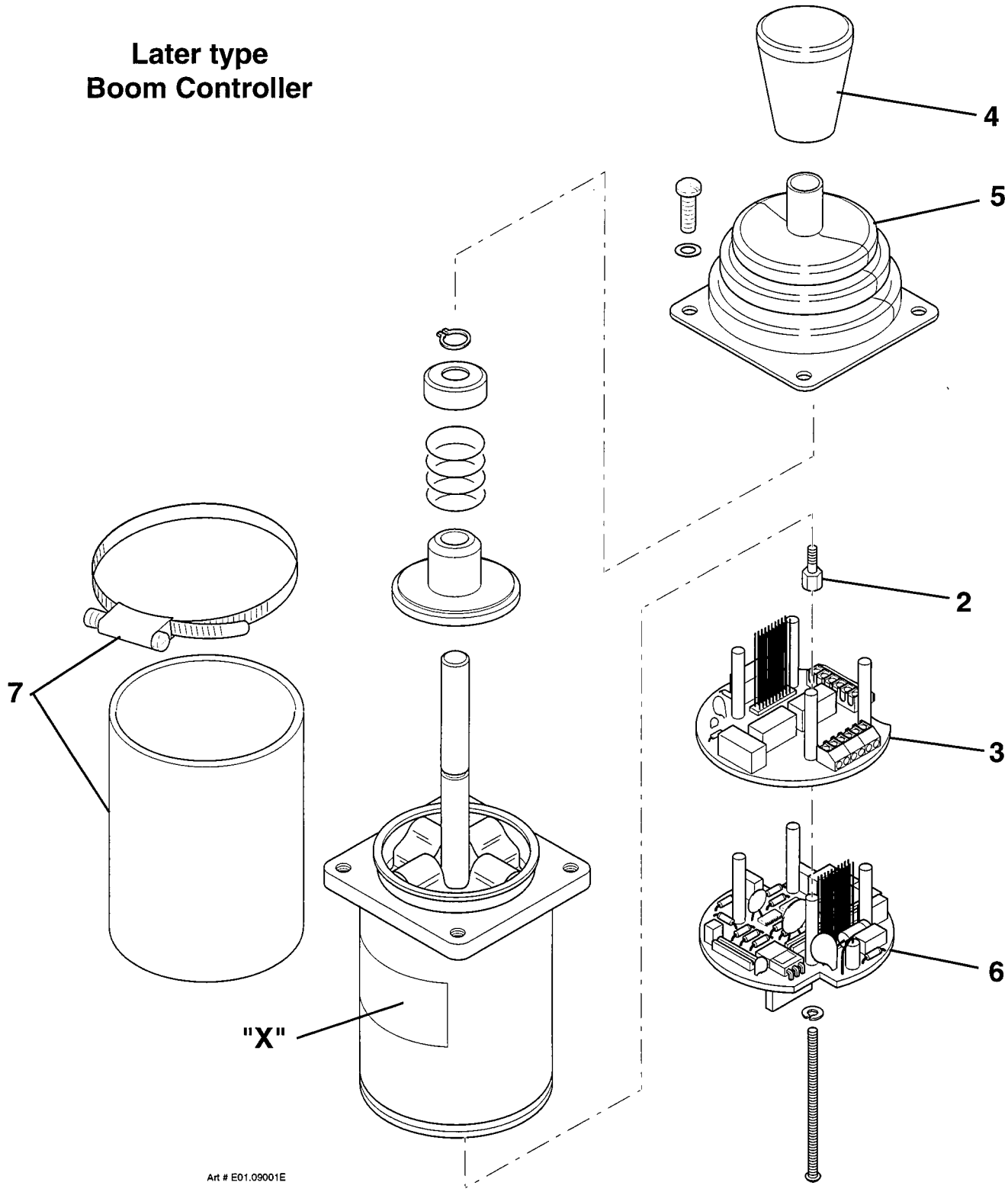
PARTS LIST

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



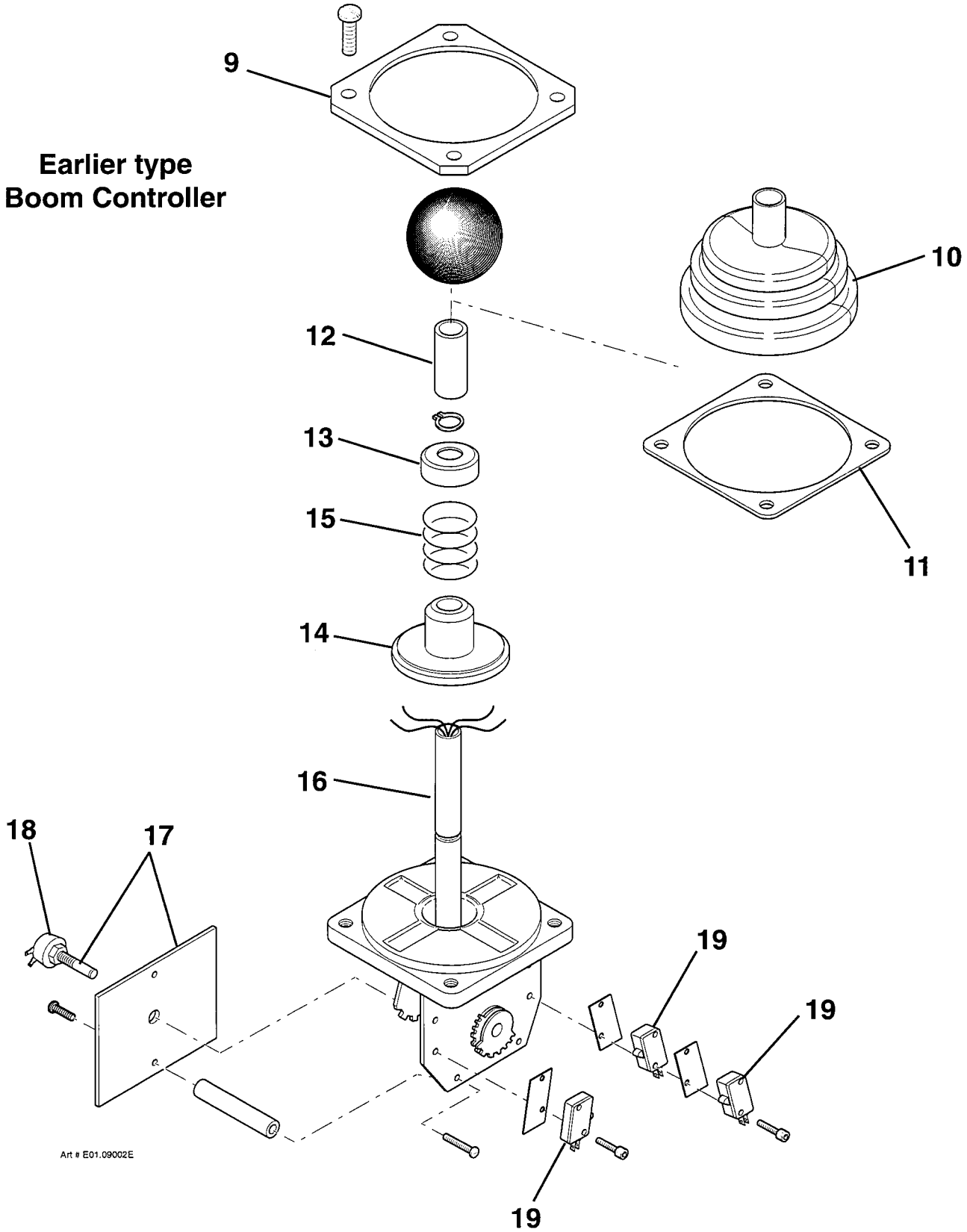
TITLE	BOOM CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2		
SIMON AERIALS INC.	REV. 01 FEB., 1996	PART NO.	PLATE NO. E01.09

ITEM	PART NO	SEE SECTION
8	03-481700	
9	03-481706	
10	03-481701	
11	03-481708	
12	03-481705	
13	03-491004	
14	03-491005	
15	03-481707	
16	03-481703	
17	03-481702	
18	03-481902	
19	03-483008	

TITLE BOOM CONTRC

PLATE NO. E01.09 SIMON

Earlier type
Boom Controller



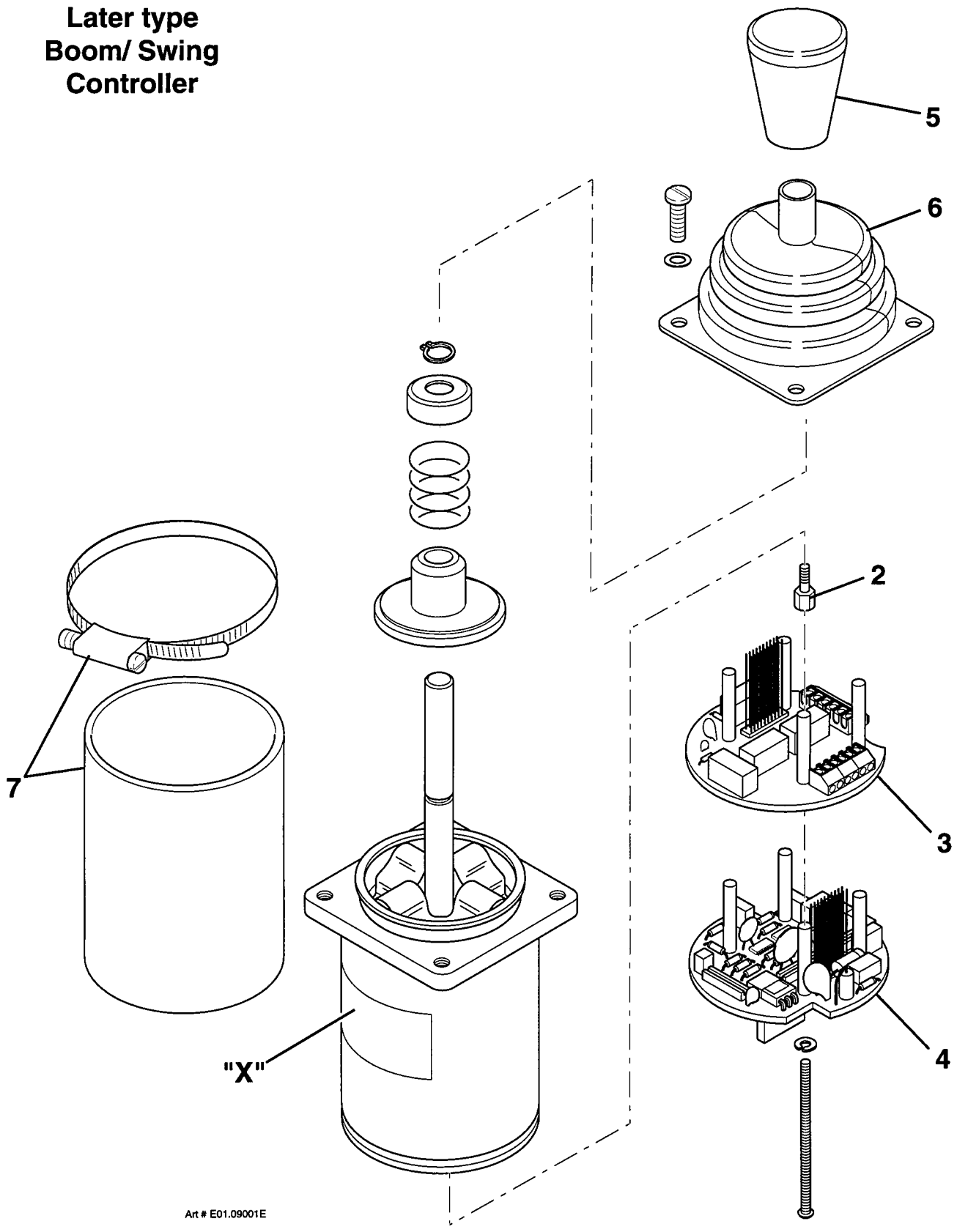
TITLE	BOOM CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2		
SIMON AERIALS INC.	REV. 01 FEB., 1996	PART NO.	PLATE NO. E01.09

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-491100		CONTROLLER ASSEMBLY, DUAL AXIS (12 Volt, 33 Hz) 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. 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

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

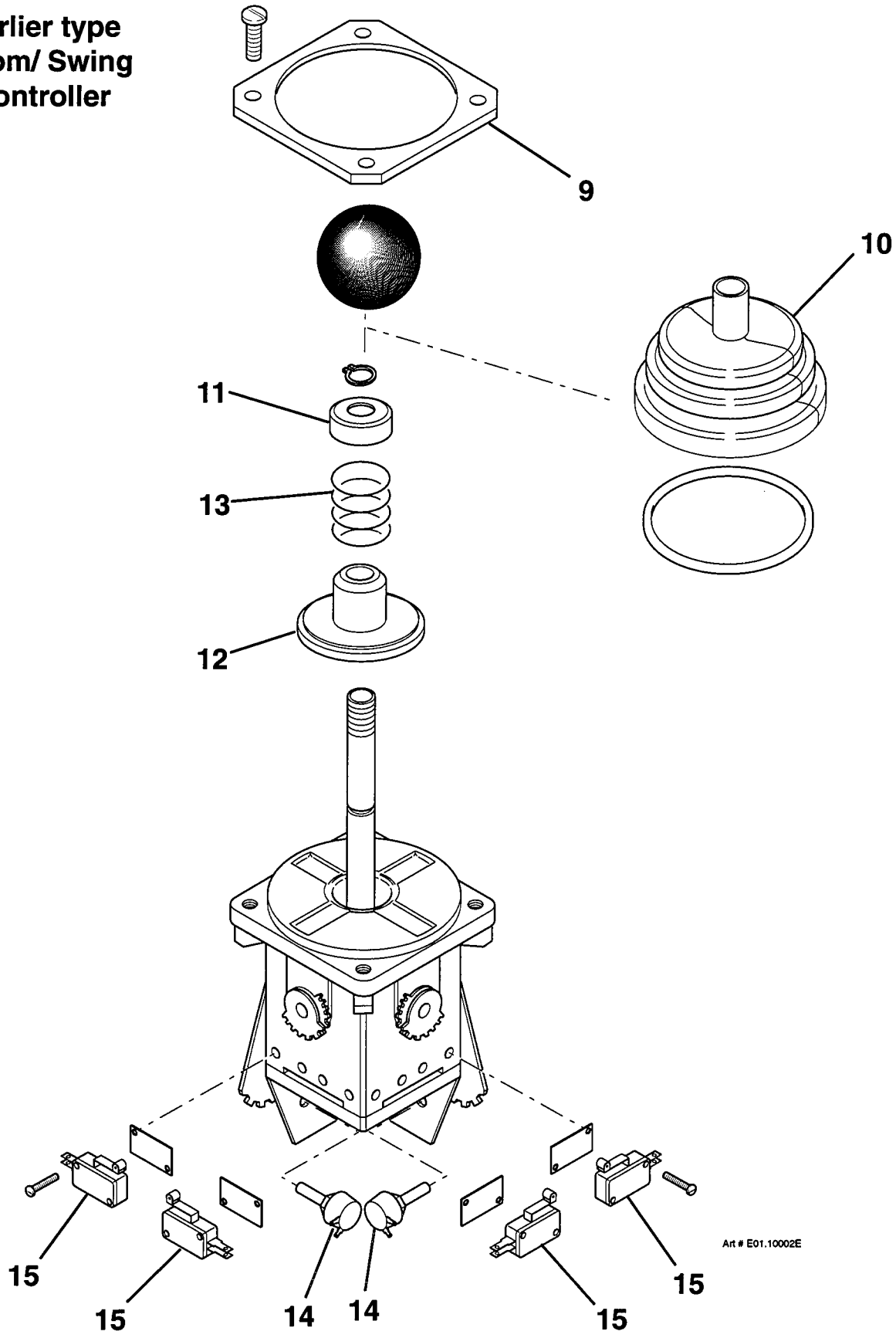
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
8	03-481800		CONTROLLER ASSEMBLY, DUAL AXIS (12 Volt, 33 Hz) (**Earlier** type, identified on nameplate "X" as "**JS54 M6539**") **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

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

Earlier type Boom/ Swing Controller



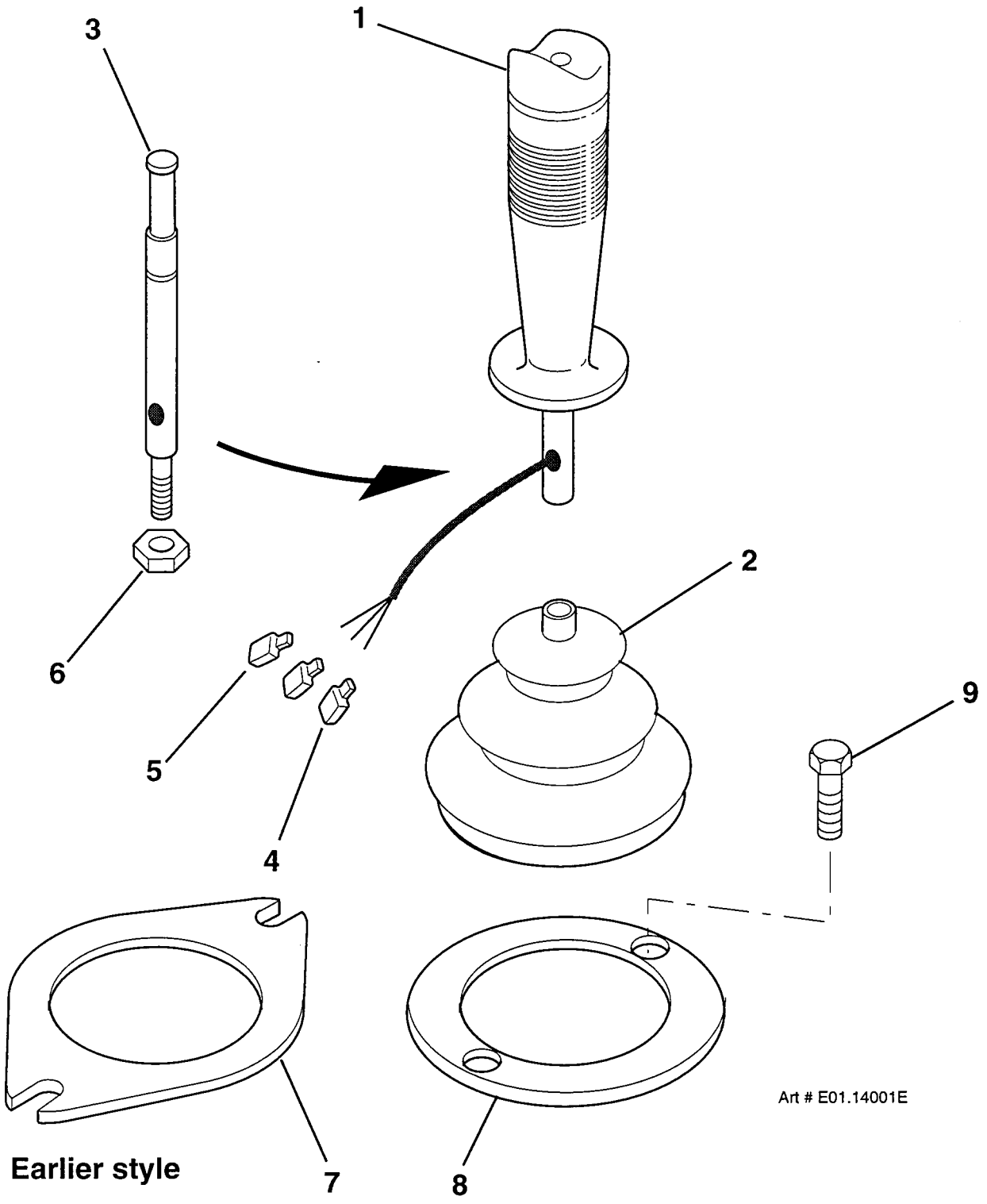
TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

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

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-492700		HANDLE ASSEMBLY, DRIVE CONTROL (with boot) (Must be modified for this application. Discard shaft that comes with handle, and replace with Item 3.)	1
2			BOOT, DRIVE HANDLE (Not available separately. Comes only with handle)	1
3	2199980		SHAFT, DRIVE HANDLE	1
4	03-092000		COUPLING, MALE (Red, insulated, for #18-#22 AWG)	2
5	03-092200		COUPLING, MALE (Blue, insulated, for #14-#16 AWG)	1
			The following items **are not** part of the Drive control handle assembly:	
6	07-040016		NUT, HEX (3/8"-16, Grade 5)	1
7	2112770		RING, BOOT RETAINING (earlier style)	1
8	2323140		RING, BOOT RETAINING (later style)	1
9	07-029365		SCREW, TEK (#12-14 x 1", self tap, bonded sealing head)	2

TITLE	DRIVE CONTROL HANDLE ASSEMBLY		
PLATE NO. E01.14	**SIMON AERIALS INC.**	REV. 01 MAR., 1994	PART NO. 3530010

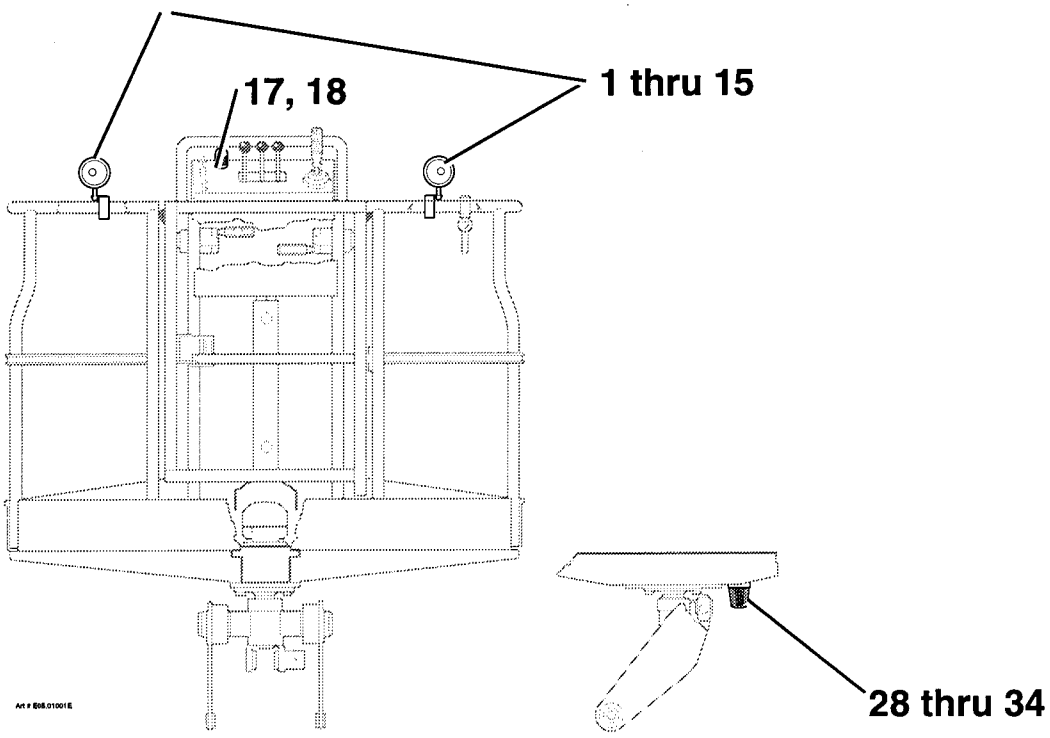


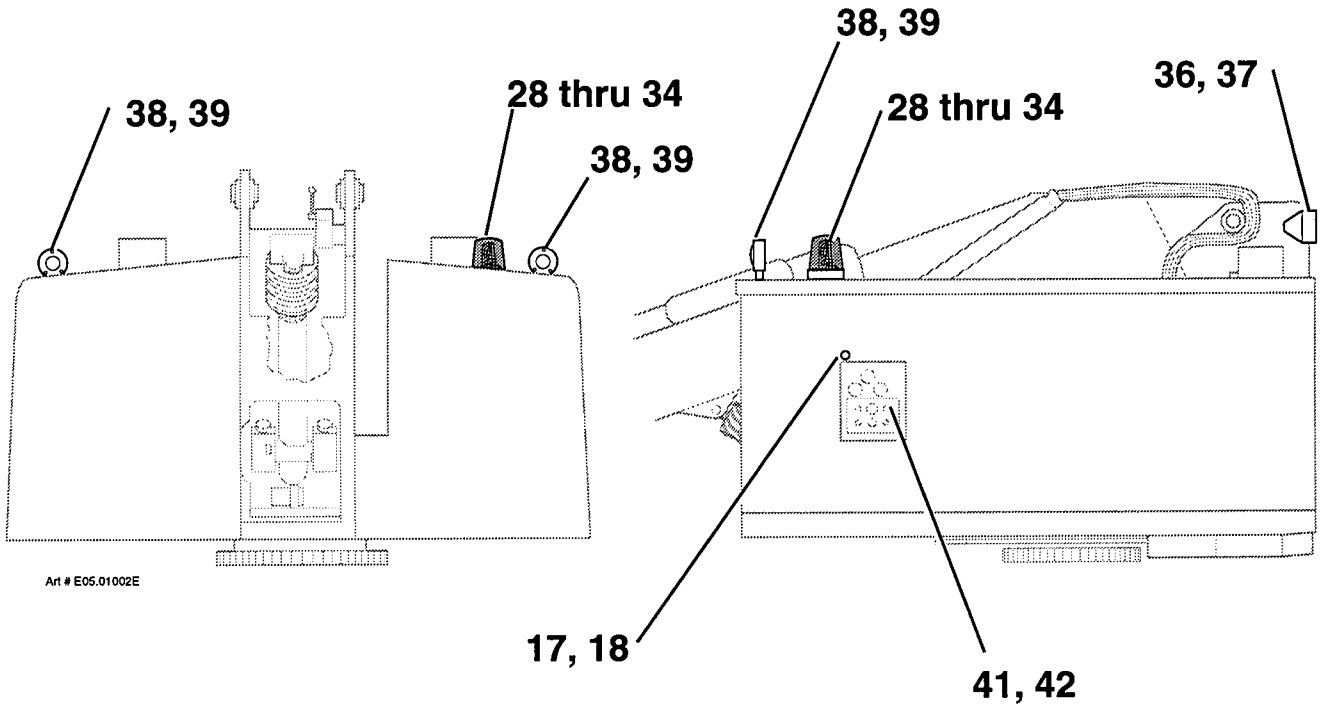
TITLE	DRIVE CONTROL HANDLE ASSEMBLY		
SIMON AERIALS INC. REV. 01 MAR., 1994		PART NO. 3530010	PLATE NO. E01.14

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.



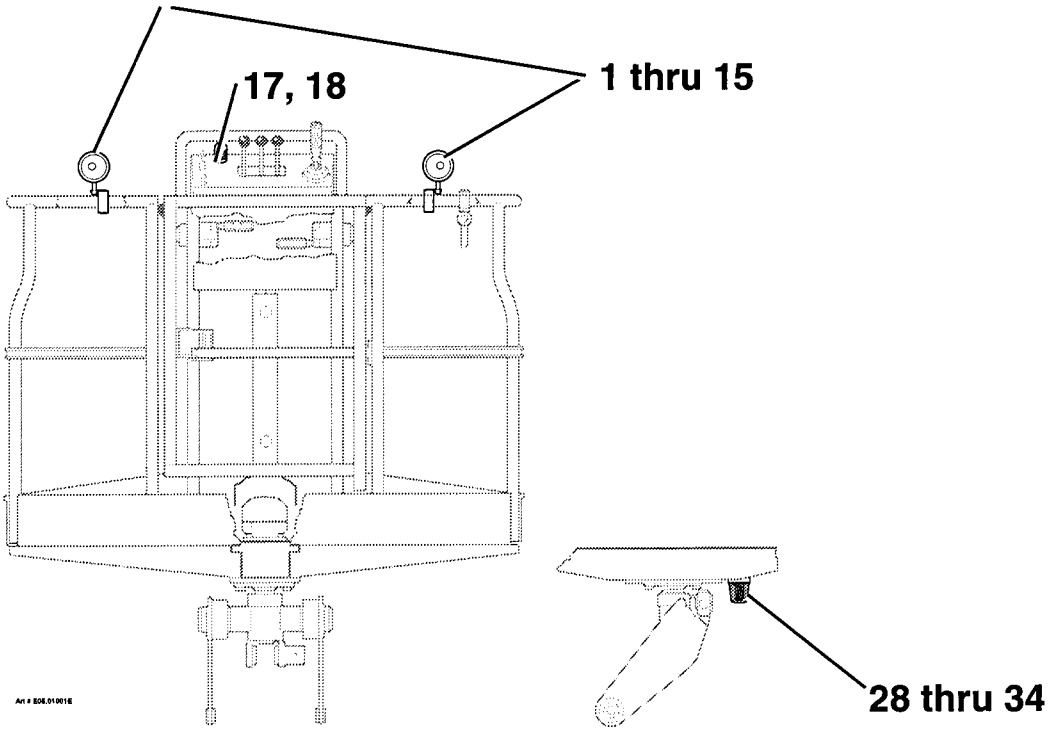


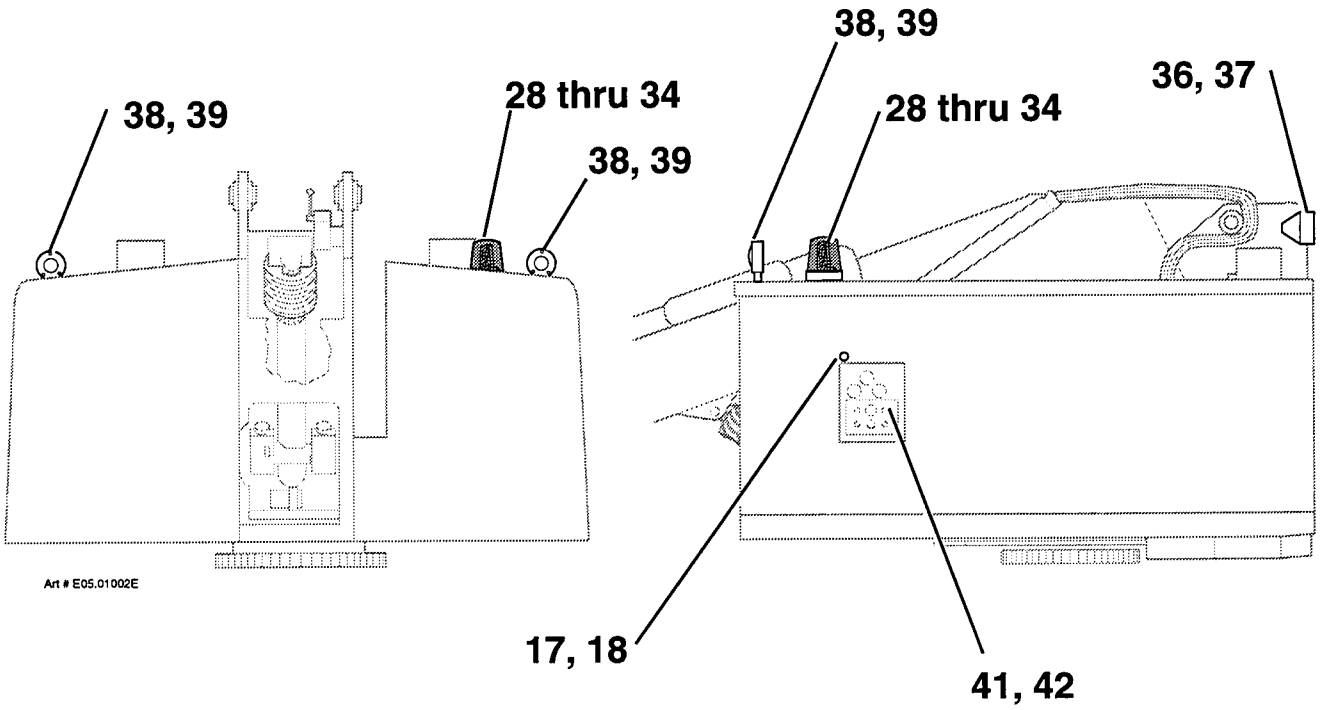
TITLE	OPTIONAL LIGHT PACKAGES (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 09 NOV., 1994		PART NO.	PLATE NO. E05.01

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.



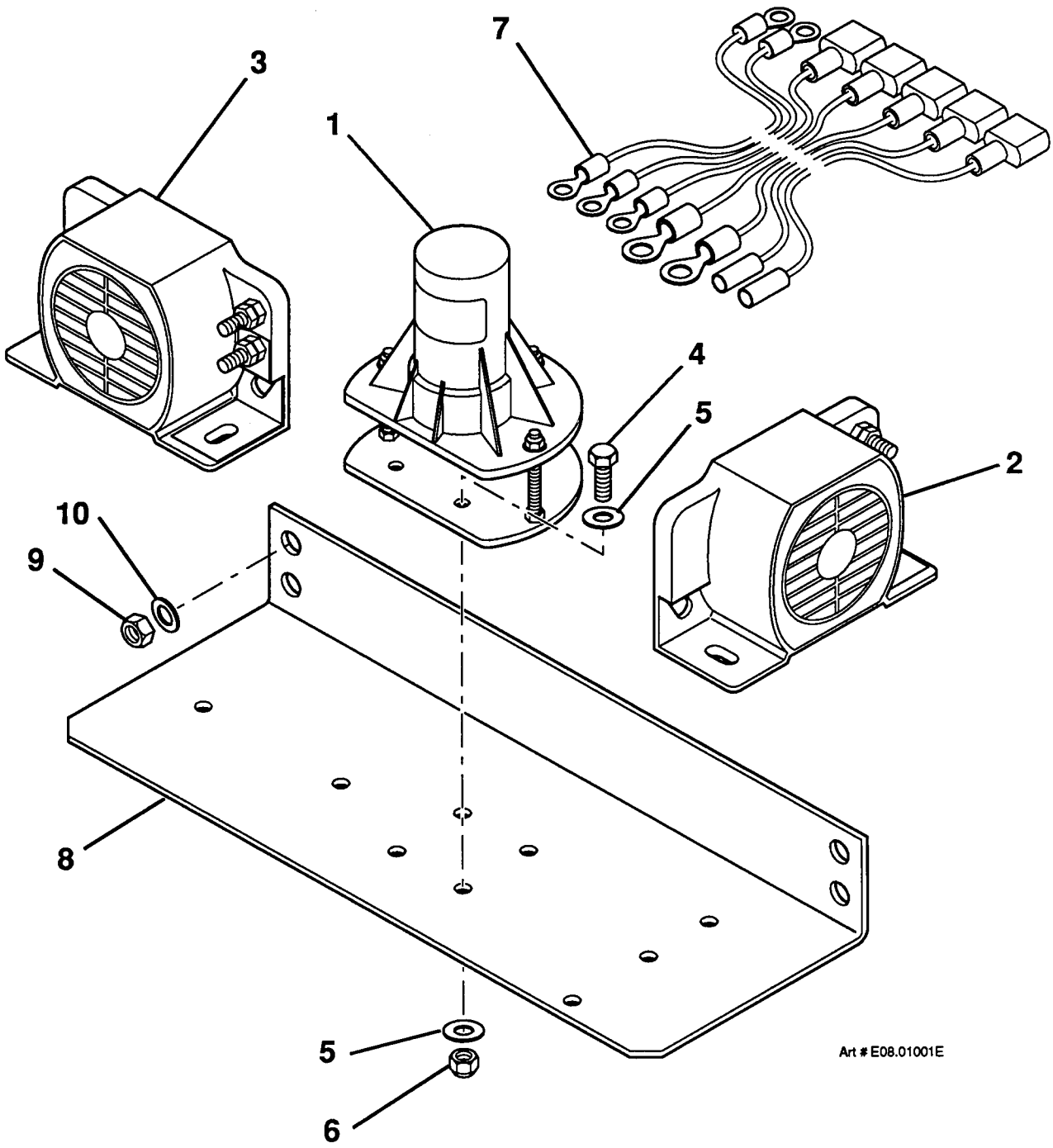


TITLE	OPTIONAL LIGHT PACKAGES (PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 09 NOV., 1994		PART NO.	PLATE NO. E05.01

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

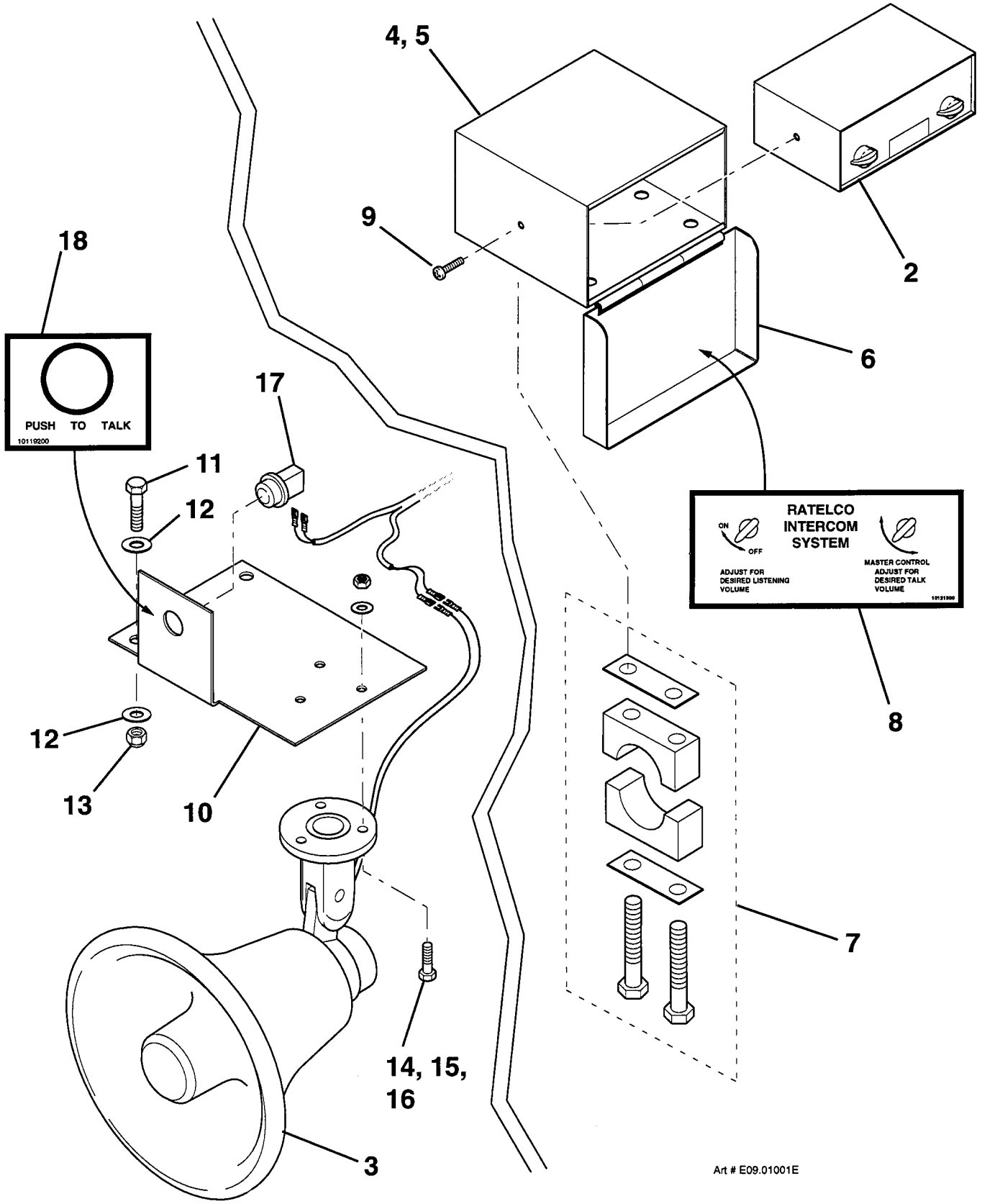


TITLE	ALARM PACKAGE ASSEMBLY, MP		
SIMON AERIALS INC. NEW 03/11/91		PART NO. 3505326	PLATE NO. E08.01

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.

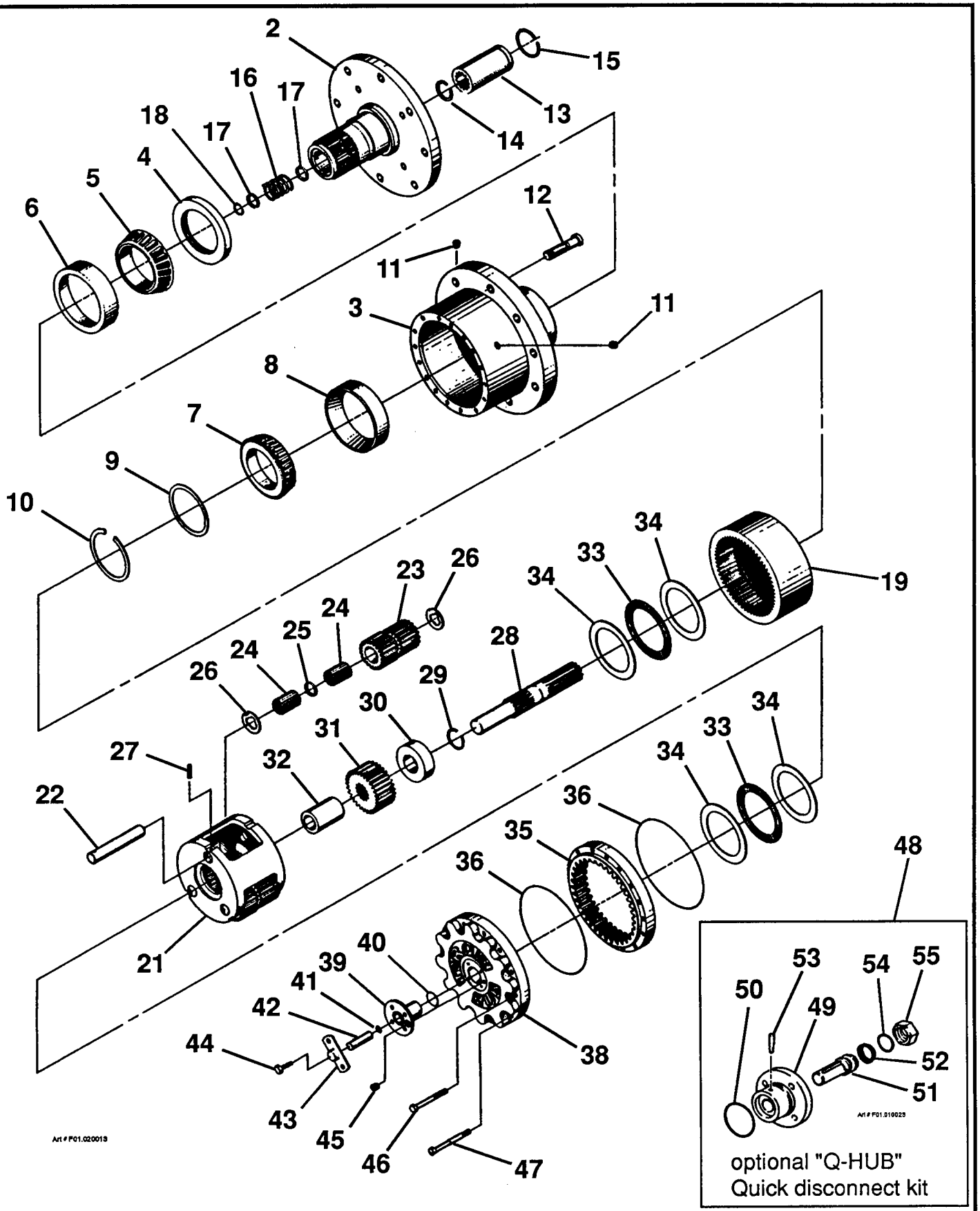


TITLE	MOBILE INTERCOM SYSTEM (OPTION)		
SIMON AERIALS INC. NEW 02 MAY., 1994		PART NO.	PLATE NO. E09.01

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

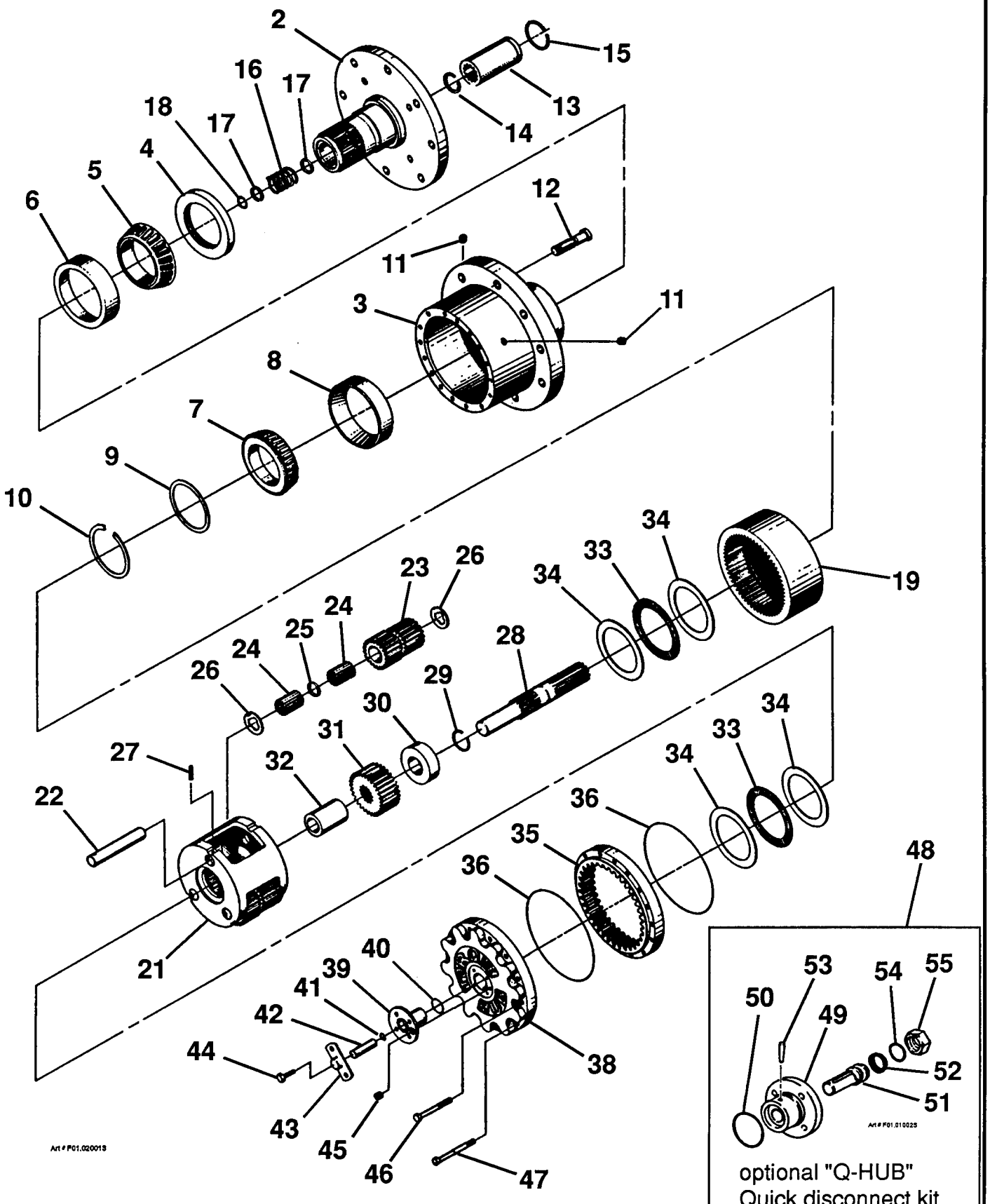


TITLE	TORQUE HUB (43:1) (PLATE 1 OF 2)		
SIMON AERIALS INC. REV.05/16/91	PART NO. 02-000600	PLATE NO. F01.02	

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

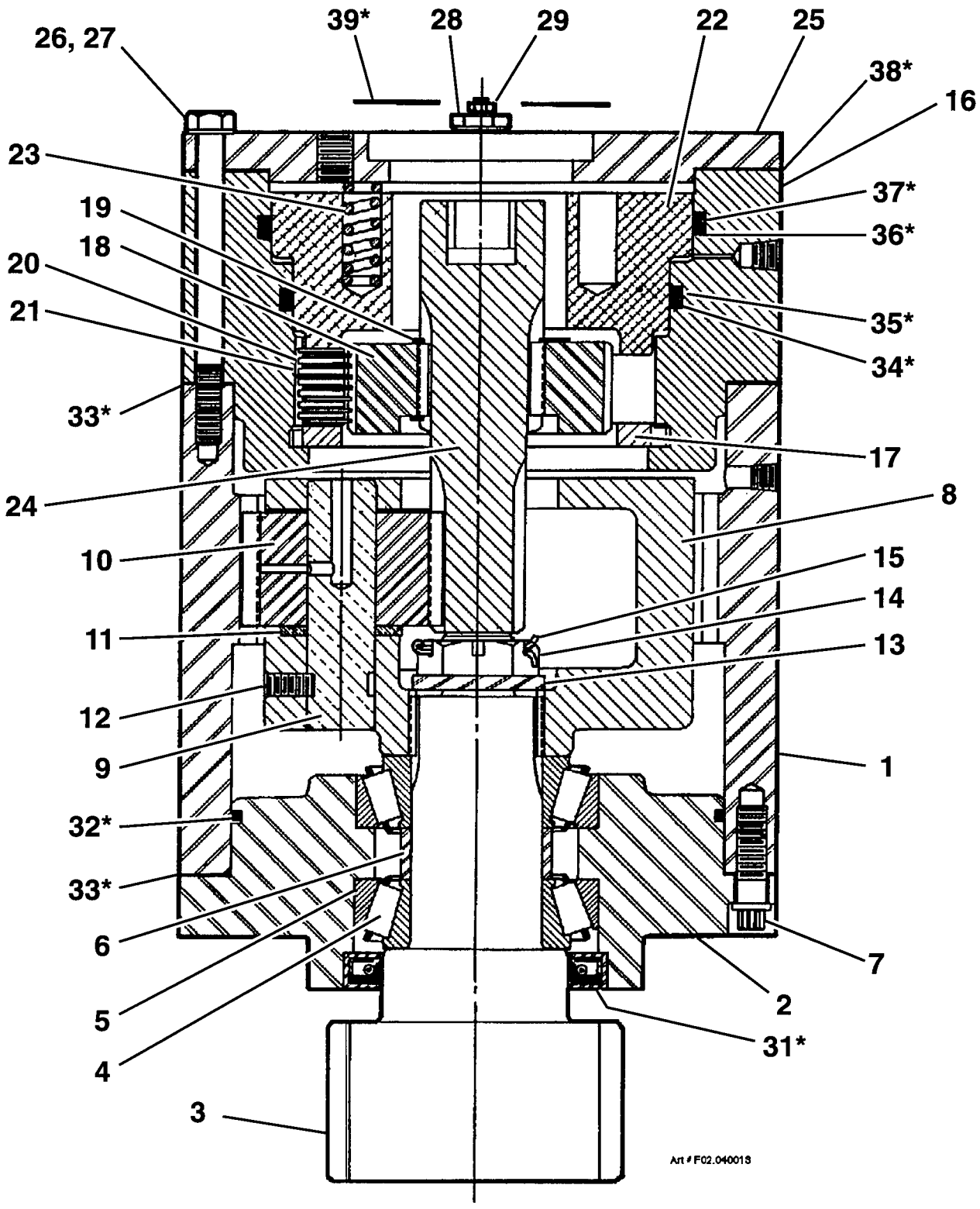


TITLE	TORQUE HUB (43:1) (PLATE 2 OF 2)		
SIMON AERIALS INC. REV.05/16/91	PART NO. 02-000600	PLATE NO. F01.02	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	02-006100		SWING REDUCER ASSEMBLY (Identified on nameplate as "D105-00029-1" or "D105-00036-1")	
1			HOUSING, SWING REDUCER	1
2	02-006111		PLATE, BASE	1
3	02-006102		SHAFT, OUTPUT	1
4	02-005703		CONE AND ROLLER, OUTPUT SHAFT BEARING	2
5	02-006114		CUP, OUTPUT SHAFT BEARING	2
6	02-006107		SPACER, BEARING	1
7	02-006115		CAP SCREW, FERRY (7/16"-14 x 1-1/4")	5
8	02-006117		CARRIER, PLANET	1
9	02-006103		SHAFT, PLANET GEAR	3
10	02-006118		GEAR, PLANET	3
11	02-006119		BEARING, THRUST	3
12	02-006120		SET SCREW, HEX SOCKET (5/16"-18 x 1/2")	3
13	02-006106		WASHER	1
14	02-006108		NUT, CASTLE	1
15			KEY, COTTER	1
16			CYLINDER, BRAKE	1
17			PLATE, BACK-UP	1
18	02-006116		DRIVER, BRAKE	1
19			SNAP RING	2
20	02-006113		DISC, BRAKE (stationary)	7
21	02-006112		DISC, FRICTION (rotating)	7
22	02-006110		PISTON, BRAKE	1
23	02-006109		SPRING, BRAKE	12
24	02-006104		SHAFT, INPUT	1
25	02-006101		COVER	1
26			CAP SCREW, HEX HEAD (3/8"-16 x 4-1/2", Grade 5)	6
27			WASHER, HELICAL LOCK (3/8")	6
28			BUSHING, REDUCER (1/2" to 1/8" NPT)	1
29			PLUG, VENT	1
30	02-005701		SEAL KIT	1
			Note: items in kit identified by asterisk (*).	
31			SEAL, OUTPUT SHAFT	1
32			"O"-RING, BASE PLATE	1
33			GASKET, HOUSING	2
34			O-RING	1
35			RING, BACKUP	1
36			"O"-RING	1
37			RING, BACKUP	1
38			GASKET, COVER	1
39			GASKET, MOTOR	1

TITLE	SWING REDUCER ASSEMBLY				
PLATE NO.	F02.04	**SIMON AERIALS INC.**	REV. 26 AUG., 1994	**PART NO.**	02-006100

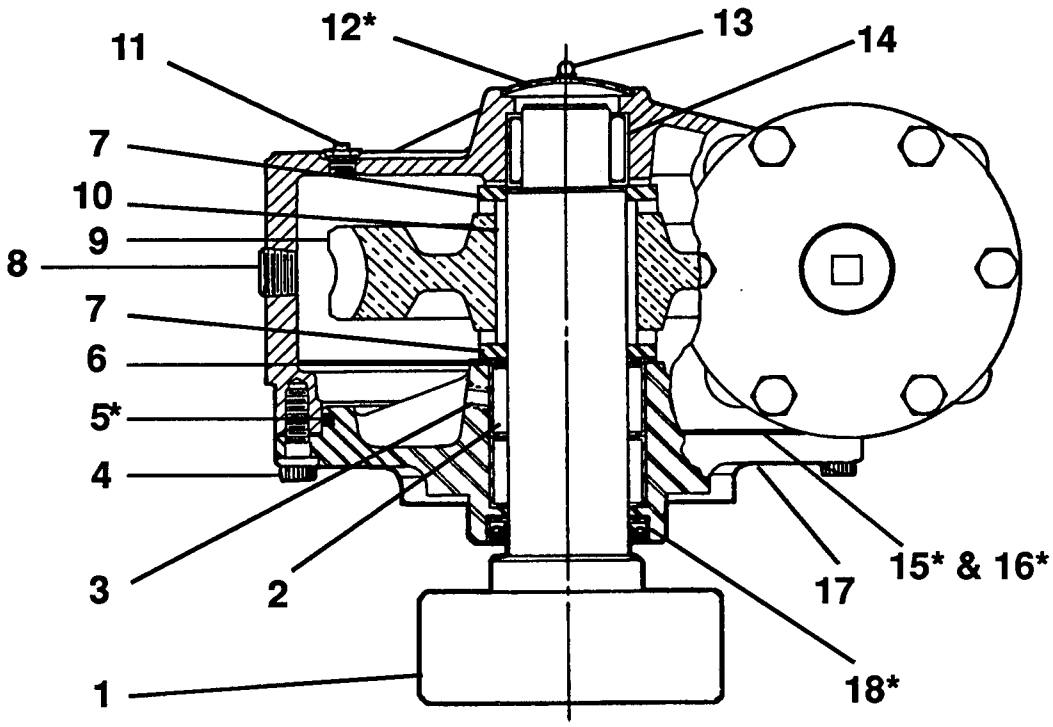


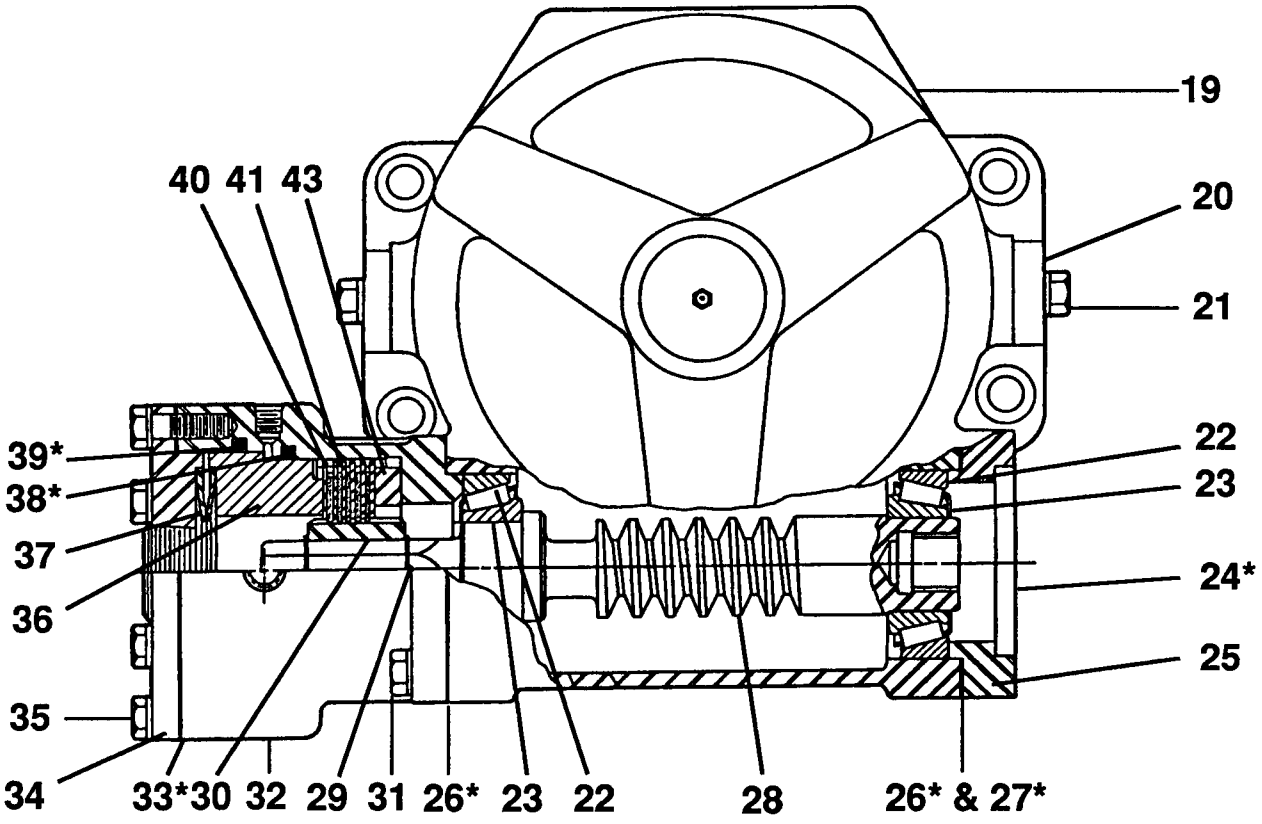
TITLE	SWING REDUCER ASSEMBLY		
SIMON AERIALS INC. REV. 26 AUG., 1994	PART NO. 02-006100	PLATE NO. F02.04	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-000701		SHAFT, OUTPUT	1
2	02-000428		BEARING, ROLLER	2
3			SET SCREW (NOT USED)	
4			CAPSCREW, FERRY (7/16"-14 NC x 1' LONG)	6
5	02-000430	*	O-RING	1
6	02-000408		SPACER	1
7	02-000407		THRUST RING	2
8			PLUG, PIPE	1
9			WORM GEAR	1
10	02-000444		KEY	2
11	02-000439		VENT PLUG	1
12		*	PLUG, EXPANSION	1
13			FITTING, GREASE	1
14	02-000428		BEARING, ROLLER	1
15	02-000411	*	GASKET (1/64")	AR
16	02-000412	*	GASKET (1/32")	AR
17	02-000703		COVER	1
18	02-000432	*	SEAL, SHAFT	1
19			HOUSING	1
20			BRACKET	1
21			CAPSCREW, HEX HEAD (7/16" NC x 1" LONG)	4
22			BEARING CUP	2
23	02-000423		BEARING CONE	2
24		*	GASKET, MOTOR	1
25	02-000406		RETAINER, BEARING	1
26	02-000409	*	GASKET (1/64")	1
27	02-000410	*	GASKET (1/32")	2
28			WORM	1
29			SNAP RING	2
30			BRAKE DRIVER	1
31			CAPSCREW, HEX HEAD (7/16" NC x 1-1/2" LONG)	4
32			HOUSING, BRAKE	1
33		*	GASKET (1/32")	1
34			COVER, BRAKE	1
35			CAPSCREW, HEX HEAD (7/16"-14 NC x 1-1/4" LONG)	6
36			PISTON	1
37			SPRING	2
38		*	O-RING	1
39		*	O-RING	1
40			DISC, BRAKE	6
41			PLATE, DRIVER	5
42			SPACER, BRAKE	1
43	02-005201		SEAL KIT **Note:** Items in seal kit identified by asterisk (*).	1

TITLE	SWING REDUCER		
PLATE NO. F02.07	**SIMON AERIALS INC.**	REV. 11/09/90	PART NO. 02-005200





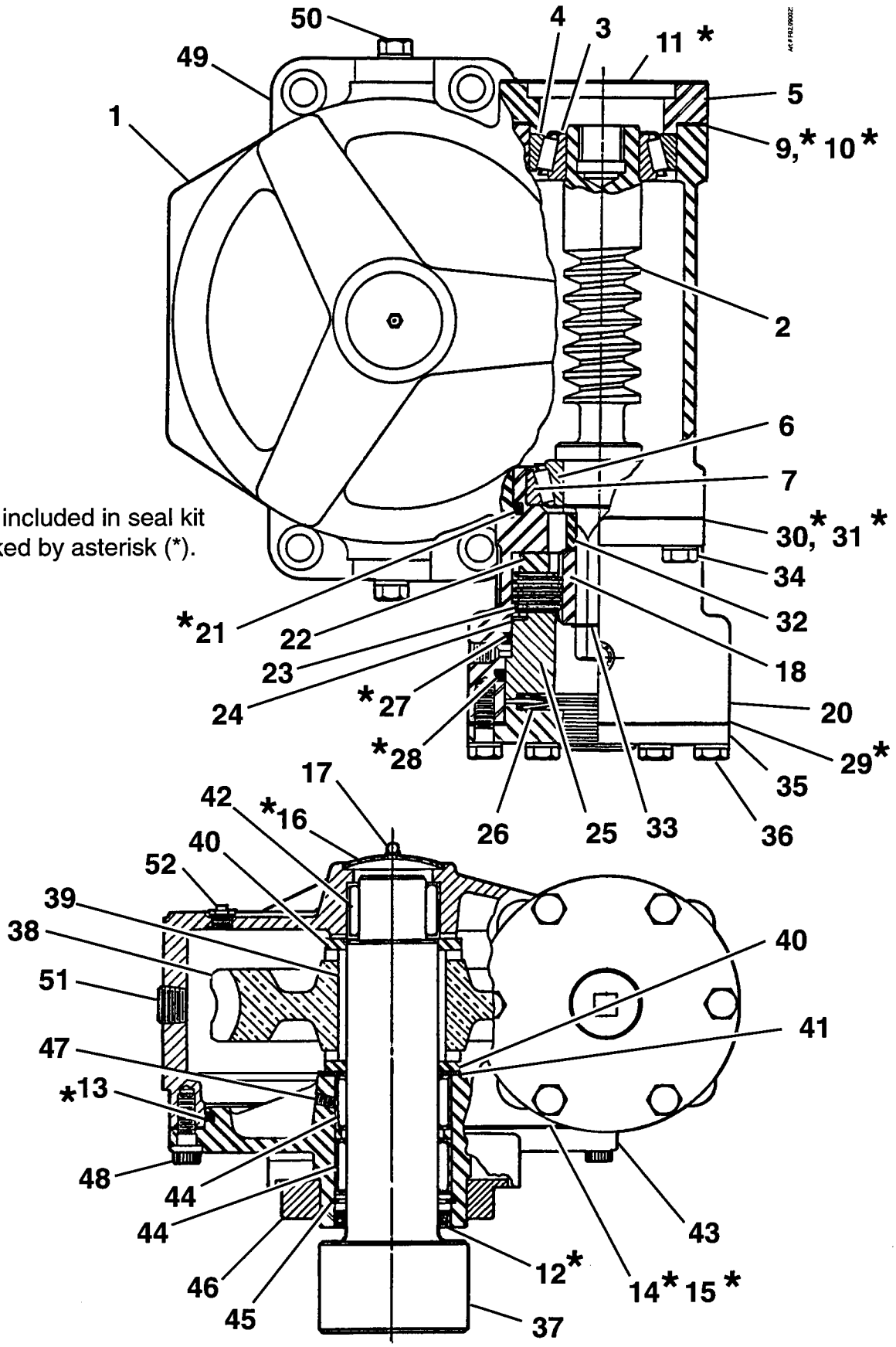
Note: Items included in seal kit (item 43) marked by asterisk (*).

TITLE	SWING REDUCER		
SIMON AERIALS INC.	REV. 11/09/90	PART NO. 02-005200	PLATE NO. F02.07

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 (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

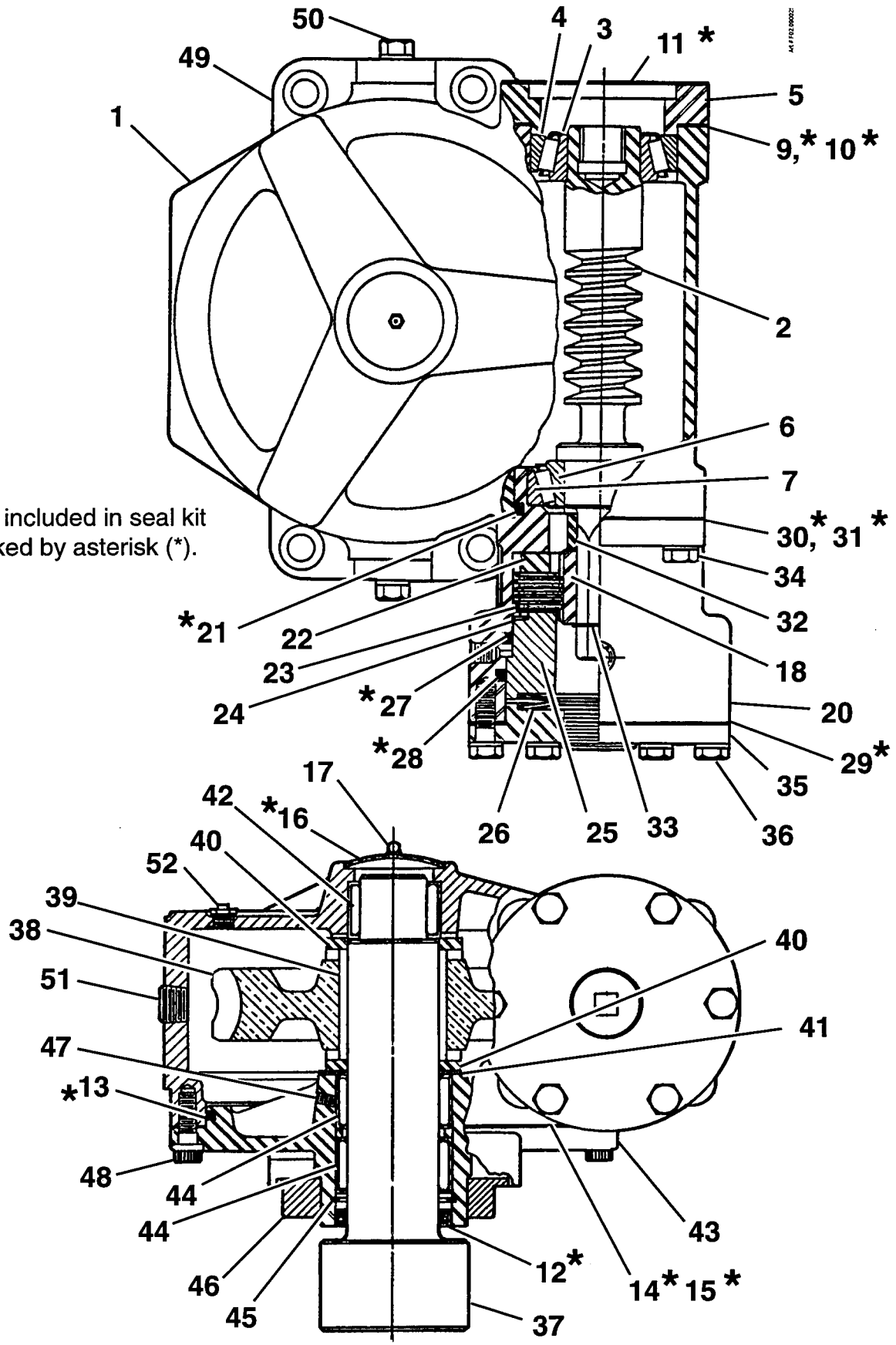


TITLE	SWING REDUCER (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 25 AUG., 1994	PART NO. 02-009100	PLATE NO. F02.09	

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

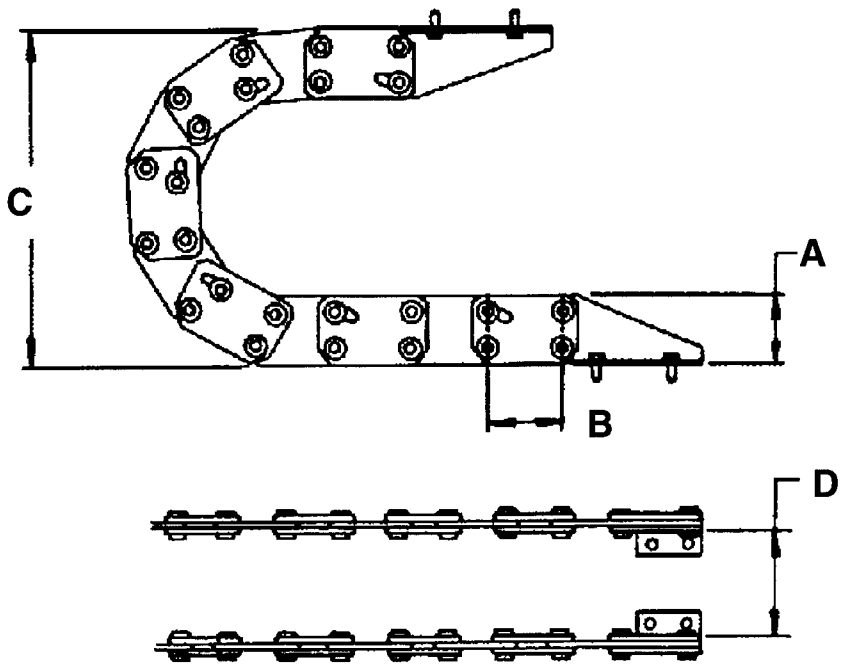
PARTS LIST

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. 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

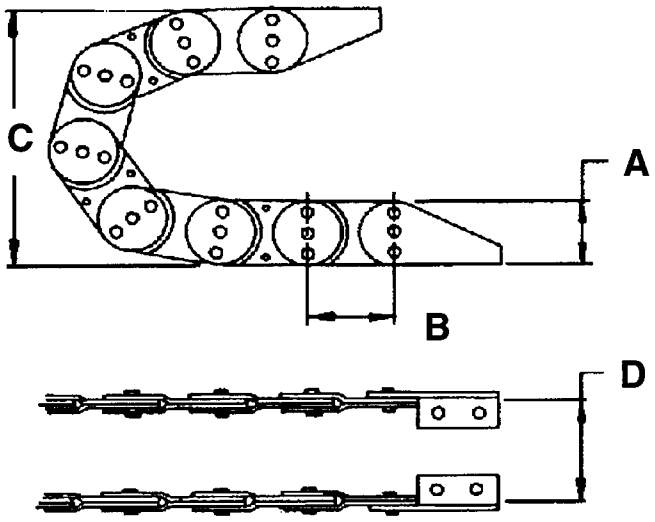
PARTS LIST

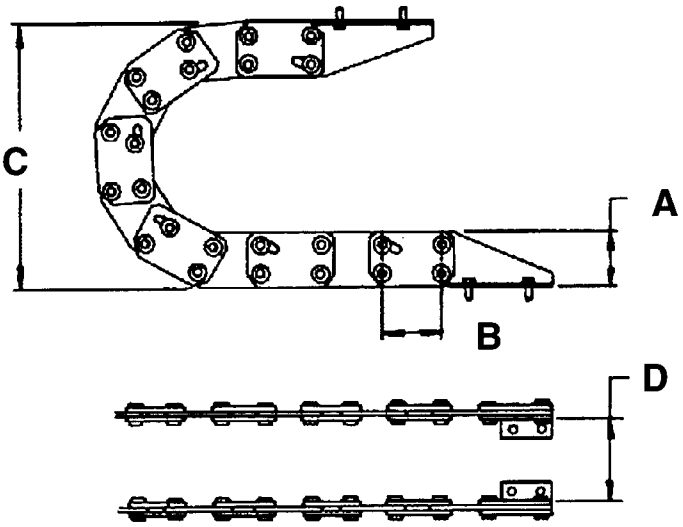
Section Number	Part Number	Track Style	Ref. Dimension "A"	"B"	"C"	"D"	No. of Links	Model Usage (ref. only)	Notes
Gleason Type 25, 35, 45 Hose Track (continued):									
F 3.33	08-011900	45	3-3/4"	5"	16"	6"	43	MPH 60 Full Hyd. MPH 60 Hydraport	not current production not current production
- - - - -	08-011901	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. MP 70 Hydraport MP 80 All MPH 80 Full Hyd. MP 95 All MP 110 (Inner) All	not current production not current production not current production not current production not current production 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. Trailblazer 40	not current production 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.

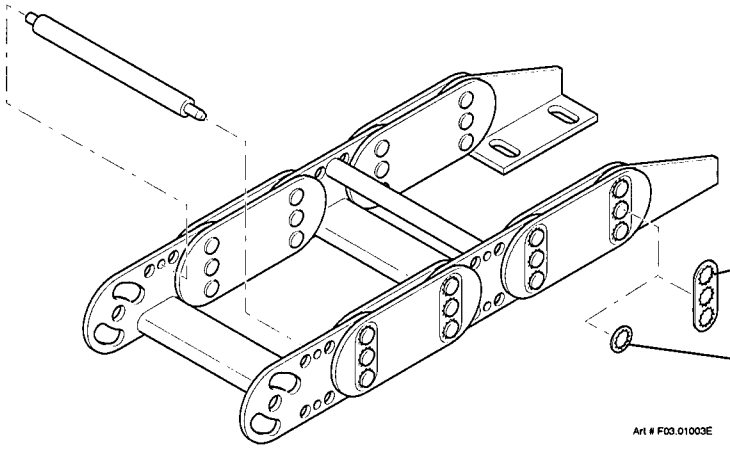
TITLE	HOSE TRACK ASSEMBLIES (PLATE 2 OF 3)		
SIMON AERIALS INC. REV. 17 FEB., 1994		PART NO.	PLATE NO. F03 ALL

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)

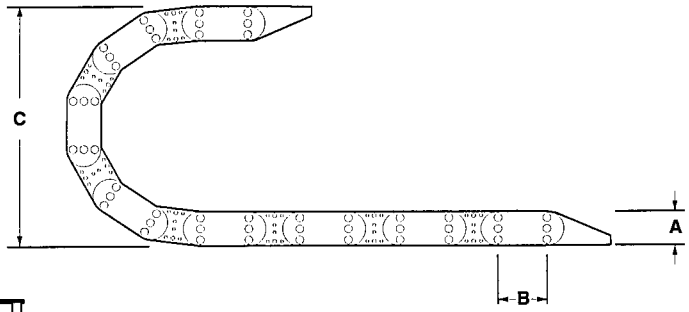
PLATE NO. F03 ALL | **SIMON AERIALS INC.** | REV. 26 AUG., 1994 THIS SHEET ONLY | **PART NO.**



Art # F03.01003E

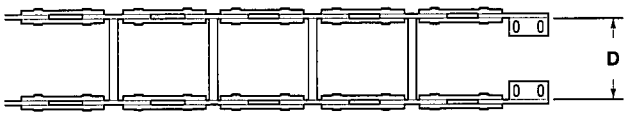
Triple Pushnut used for factory installation only.

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.

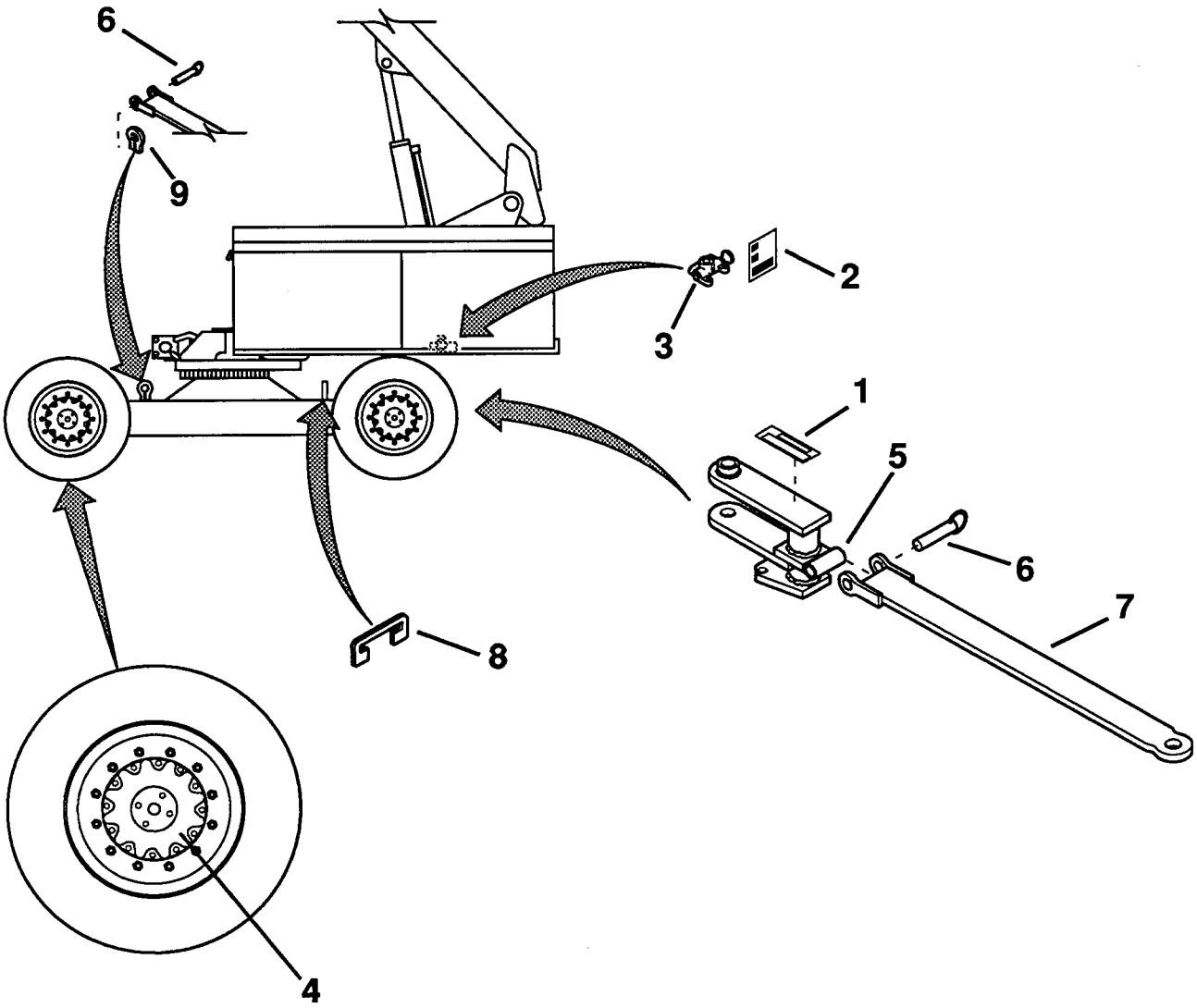
(2) Refer to the parts list and match the type to the overall height (C), width (D) and number of links.

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	

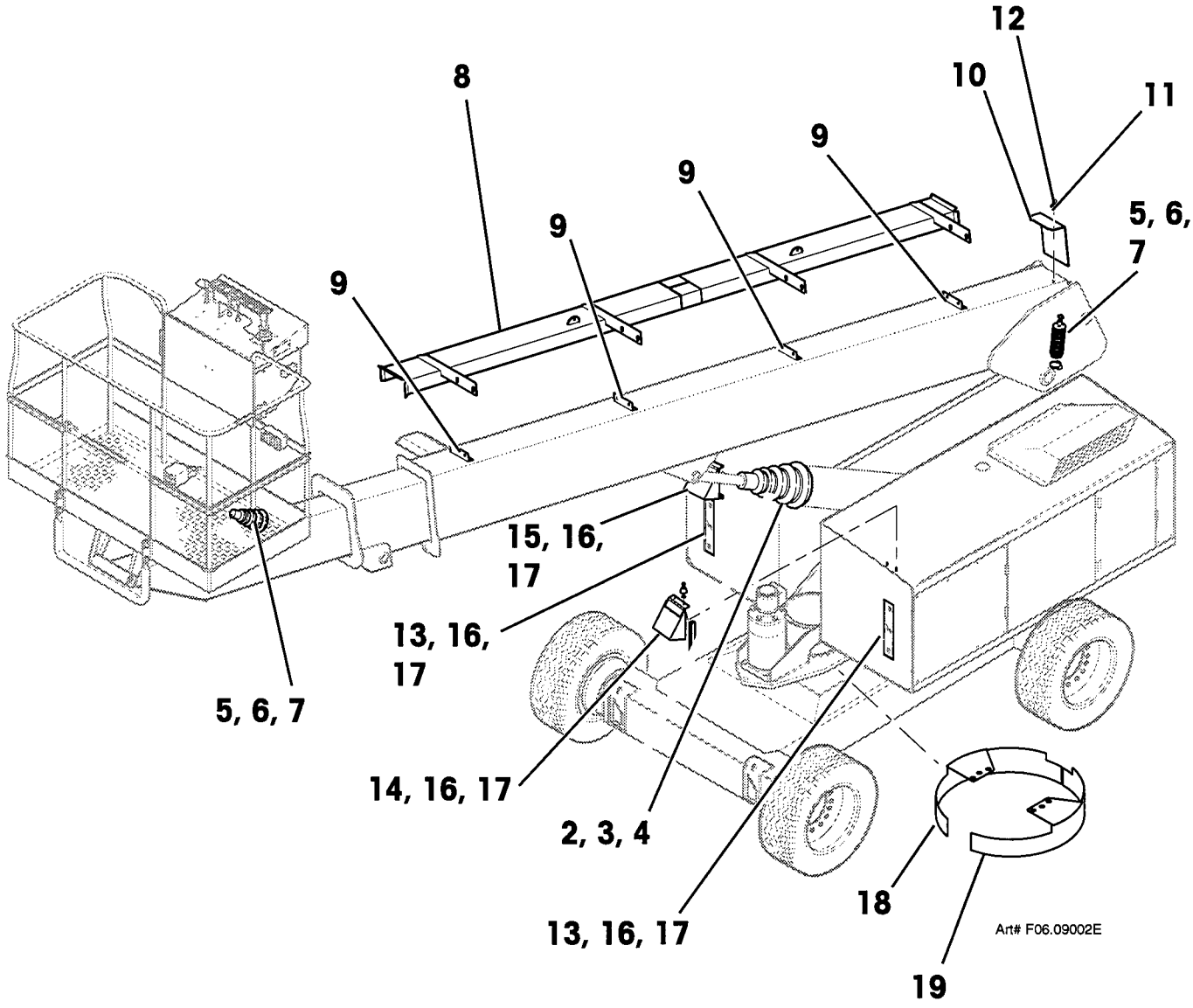
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			HOSTILE ENVIRONMENT PACKAGE	1
2	10-224000		BOOT, BOOM LIFT CYLINDER (with zipper)	1
3	09-011300		CLAMP, HOSE (2-1/4" to 12-1/4")	1
4	09-008700		CLAMP, HOSE (4-1/2")	1
5	10-040900		BOOT, LEVEL CYLINDER (with zipper)	2
6	09-008400		CLAMP, HOSE (1-3/4")	2
7	09-015000		CLAMP, HOSE (2-1/2")	2
8	232 6030		COVER, CATRAC HOSE	1
	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2")	8
	07-062016		WASHER, FLAT (3/8")	16
	07-050016		NUT, LOCK (3/8"-16)	8
9	211 7960		ANGLE (3" x 2" x 1/4" x 6")	4
10	232 5870		COVER, BOOM FOOT	1
11	07-062014		WASHER, FLAT (1/4")	8
12	07-044014		NUT, ACORN (1/4"-20)	8
13	217 0760		COVER, SIGHT GUAGE	2
14	208 1629		COVER, HYDRAULIC TANK FILLER	1
15	219 9690		COVER, FUEL TANK FILLER	1
16	07-062014		WASHER, FLAT (1/4")	8
17	07-044014		NUT, ACORN (1/4"-20)	8
			The following items **are not** part of the Hostile Environment Package, but are sold separately:	
18	237 1680		GUARD, SWING BEARING (Left)	1
19	237 1690		GUARD, SWING BEARING (Right)	1
20	10-159100		COVER, PLATFORM CONTROL CONSOLE (Black vinyl) (not shown)	1
21	232 6050		DOOR, ACCESS (not shown)	1

TITLE: HOSTILE ENVIRONMENT PACKAGE, MPH 60

SECTION F06. | PLATE NO. 09 | PAGE 01 | REV. - | DATED 02 MAY. 1997 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
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TITLE: HOSTILE ENVIRONMENT PACKAGE, MPH 60

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	-	02 MAY. 1997	F06.	09	01

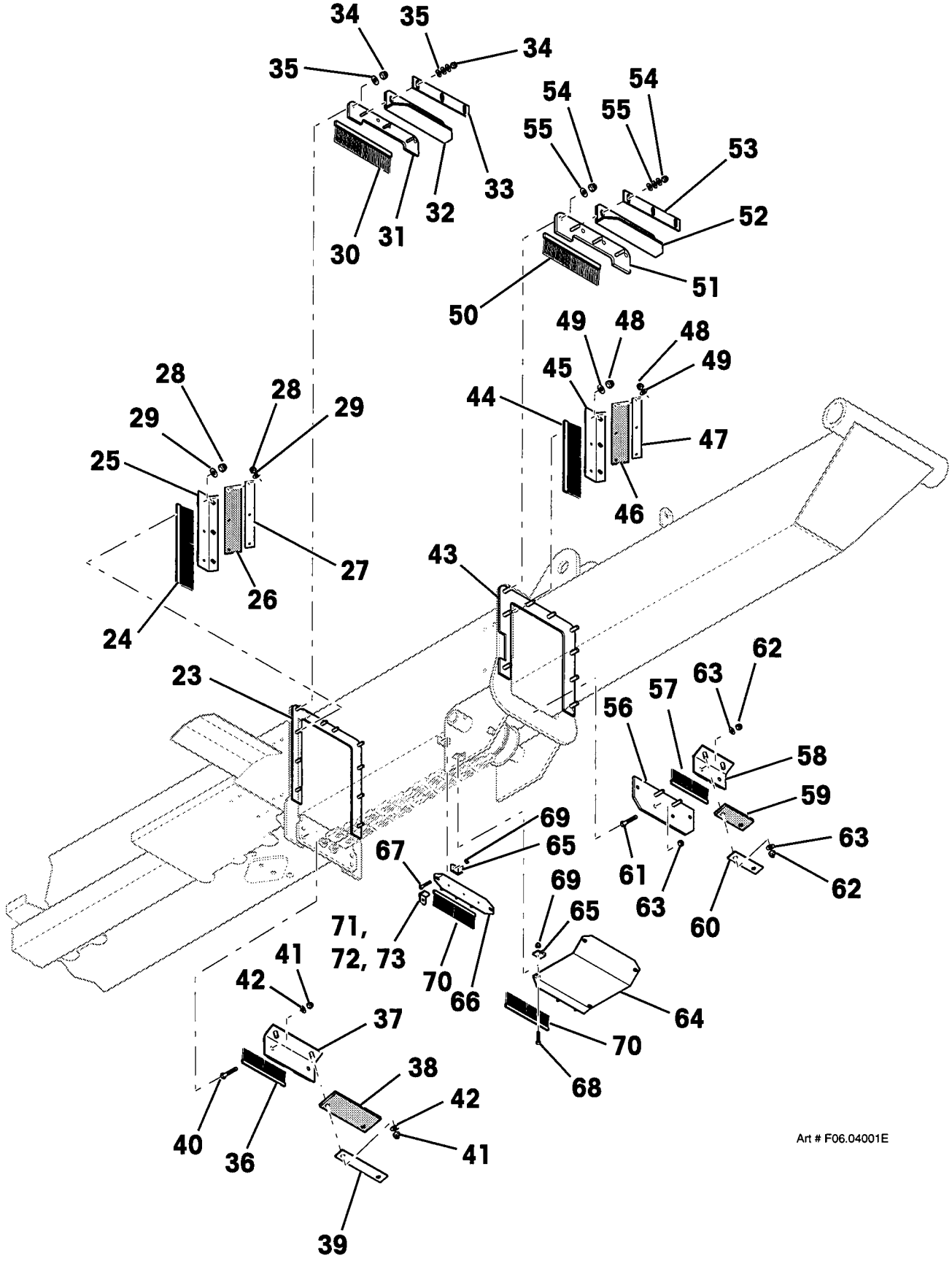
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
22	232 5740		BOOM BRUSH AND WIPER ASSEMBLY	1
23	232 5750		FRAME, MOUNTING	1
24	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section.	
			Cut to fit. 15.5" [39.4 cm] piece [209 3402] used here.)	2
25	232 5770		SEAL PLATE, BASE BOOM SIDE (mounting angle)	2
26	232 5790		WIPER. BOOM SEAL	2
27	232 5800		CLAMP, BOOM SEAL	2
28	07-050016		NUT, LOCK (3/8"-16, Grade 5)	12
29	07-062016		WASHER, FLAT (3/8")	12
30	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section.	
			Cut to fit. 10.5" [26.7 cm] piece [209 3433] used here.)	1
31	231 7460		SEAL PLATE, BASE BOOM TOP (Scraper mounting plate)	1
32	231 7540		SCRAPER, BOOM SEAL	1
33	231 7550		CLAMP, BRUSH	1
34	07-050016		NUT, LOCK (3/8"-16, Grade 5)	7
35	07-062016		WASHER, FLAT (3/8")	7
36	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section.	
			Cut to fit. 8.25" [21.0 cm] piece [217 6690] used here.)	1
37	231 7520		ANGLE, MOUNTING	1
38	231 7750		WIPER, BOOM SEAL	1
39	231 7760		CLAMP, BOOM SEAL	1
40	07-031008		STUD, WELD (3/8"-16 x 1")	2
41	07-050016		NUT, LOCK (3/8"-16, Grade 5)	2
42	07-062016		WASHER, FLAT (3/8")	2
43	231 7700		FRAME, MOUNTING	1
44	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section.	
			Cut to fit. 11.0" [27.9 cm] piece [217 6010] used here.)	2
45	232 5830		SEAL PLATE, BASE BOOM SIDE (mounting angle)	2
46	232 5850		WIPER. BOOM SEAL	2
47	232 5860		CLAMP, BOOM SEAL	2
48	07-050016		NUT, LOCK (3/8"-16, Grade 5)	6
49	07-062016		WASHER, FLAT (3/8")	6
50	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section.	
			Cut to fit. 8.5" [21.6 cm] piece [209 3446] used here.)	1
51	231 7560		SEAL PLATE, MID BOOM TOP (Scraper mounting plate)	1
52	231 7620		SCRAPER, BOOM SEAL	1
53	231 7630		CLAMP, BRUSH	1
54	07-050016		NUT, LOCK (3/8"-16, Grade 5)	3
55	07-062016		WASHER, FLAT (3/8")	A.R.

TITLE: HOSTILE ENVIRONMENT PACKAGE, MPH 60

SECTION F06. | PLATE NO. 09 | PAGE 02 | REV. - | DATED 02 MAY. 1997 | 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

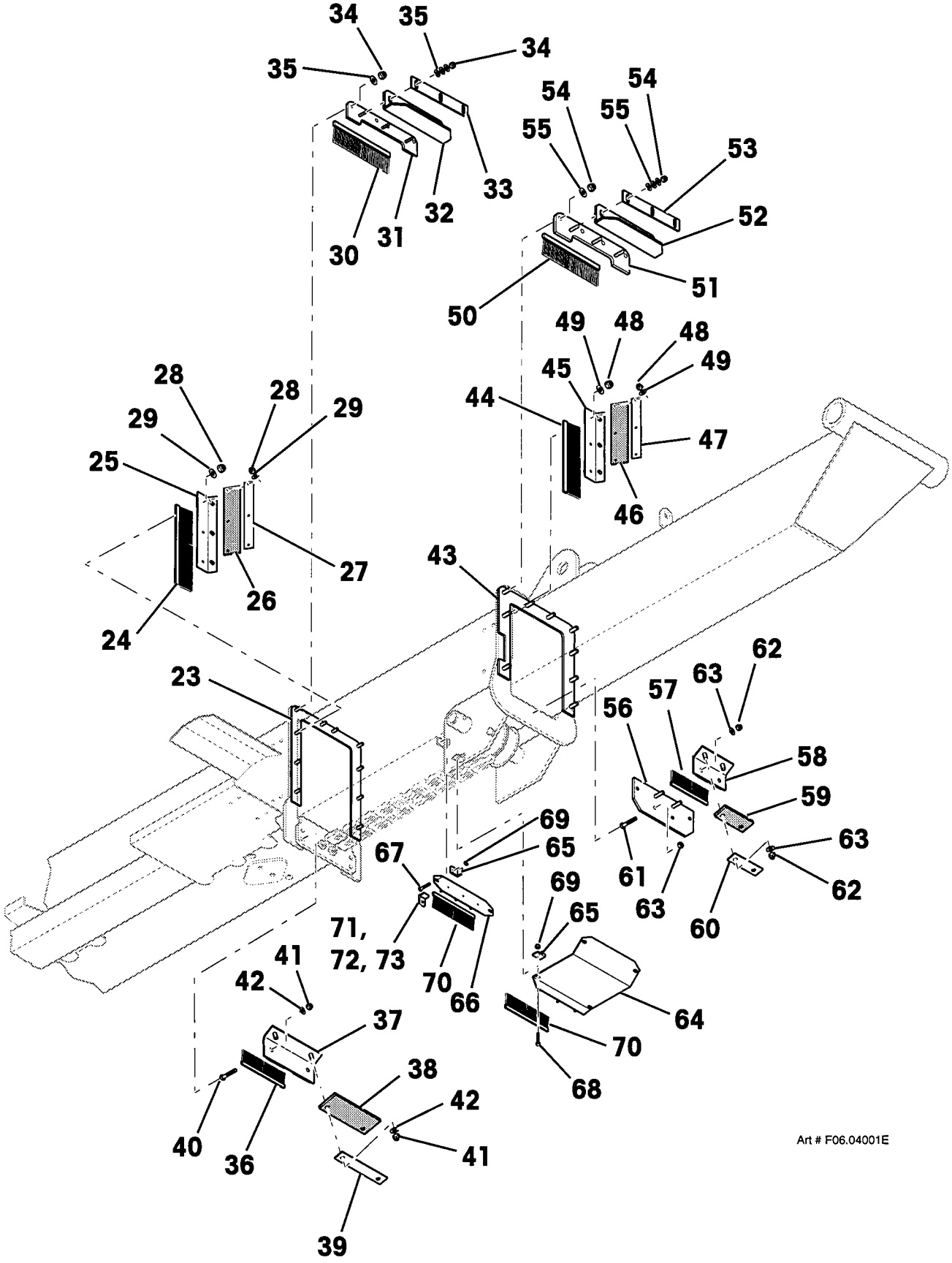


Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE HOSTILE ENVIRONMENT PACKAGE, MPH 60					
	PART NO.	REV. -	DATED 02 MAY. 1997	SECTION F06.	PLATE NO. 09	PAGE 02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			BOOM BRUSH AND WIPER ASSEMBLY (Continued)	
56	231 7850		PLATE, BRUSH MOUNTING	1
57	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section.	
			Cut to fit. 6.25" [15.9 cm] piece [217 6030] used here.)	1
58	231 7600		ANGLE, MOUNTING	1
59	231 7800		WIPER, BOOM SEAL	1
60	231 7810		CLAMP, BOOM SEAL	1
61	07-031008		STUD, WELD (3/8"-16 x 1")	2
62	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
63	07-062016		WASHER, FLAT (3/8")	4
64	209 1075		COVER, BOOM SHEAVES	1
65	209 1136		ANGLE, MOUNTING	6
66	- - -		PLATE, BRUSH MOUNTING	1
67	07-003025		CAP SCREW, HEX HEAD (5/16"-18 x 1")	2
68	07-003023		CAP SCREW, HEX HEAD (5/16"-18 x 3/4")	4
69	07-050015		NUT, LOCK (5/16"-18)	6
70	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section.	
			Cut to fit. 6.25" [15.9 cm] piece [217 6030] used here.)	2
71	204 1739		RETAINER, BRUSH	6
72	07-050014		NUT, LOCK (1/4"-20)	6
73	07-062014		WASHER, FLAT (1/4")	6

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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 HOSTILE ENVIRONMENT PACKAGE, MPH 60					
PART NO.	REV. -	DATED 02 MAY. 1997	SECTION F06.	PLATE NO. 09	PAGE 03	

PARTS LIST

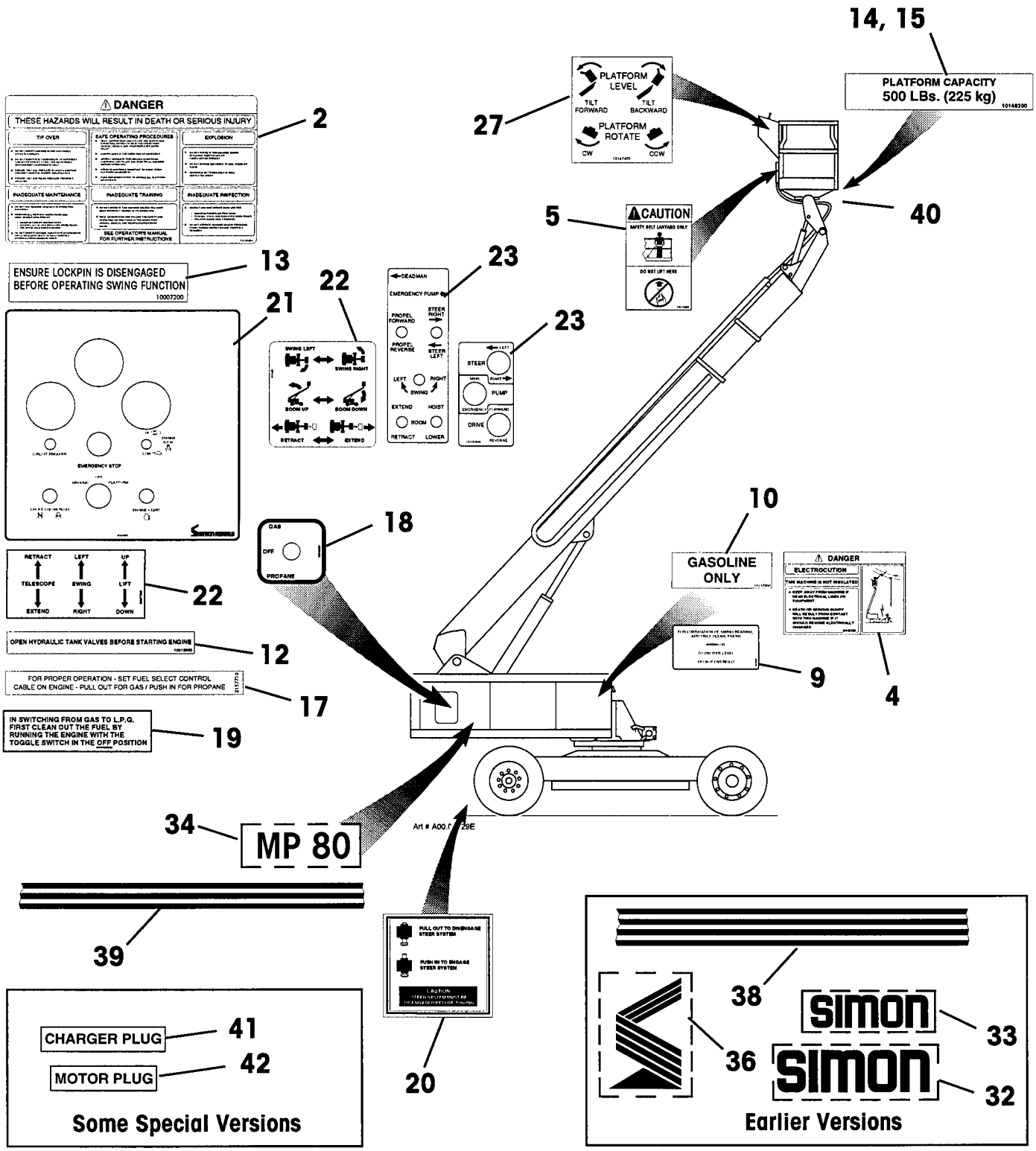
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			DECAL KIT, MP (Not available. Order decals individually)	
2	10-130600		DECAL, "DANGER" (Hazard listing, at Ground controls)	1
3	10-142100		DECAL, "DANGER" (Hazard listing, at Platform controls)	1
4	10-145100		DECAL, "DANGER" (Electrocution)	2
5	10-272600		DECAL, "CAUTION" ("Safety belt lanyard only ...")	2
6	10-094700		DECAL, "CAUTION, HOT WATER ..."	
			(for versions with liquid cooled engine)	1
7	10-094900		DECAL, "CAUTION, ROTATING FAN ..."	
			(for versions with liquid cooled engine)	1
8	10-025400		DECAL, ENGINE MAINTENANCE (decal is marked	
			"F3-6L912" and "2973582") (used with Deutz 912 engine)	1
9	10-135100		DECAL, "FOR LUBRICATION OF SWING BEARING ..."	
			(with optional oil bath swing bearing)	1
10			PLACARD, FUEL	1
	10-117900		"GASOLINE ONLY" (Black type on white)	
	10-151100		"DIESEL FUEL ONLY" (Black type on white)	
11	10-151300		PLACARD, "HYDRAULIC FLUID ONLY"	1
12	10-012600		DECAL, "OPEN HYDRAULIC TANK VALVES ..."	1
13	10-007200		DECAL, "ENSURE LOCK PIN IS DISENGAGED ..."	2
14			DECAL, PLATFORM CAPACITY	
			(4-1/2" [114 mm] wide, black letters on white background)	
			(2 used on earlier versions, 4 on later versions)	A.R.
	10-148300		"Platform capacity 500 LBs (225 kg)"	
	10-149000		"Platform capacity 550 LBs (250 kg)"	
	10-148500		"Platform capacity 650 LBs (300 kg)"	
	10-148700		"Platform capacity 750 LBs (340 kg)"	
	10-149400		"Platform capacity 800 LBs (360 kg)"	
	10-148900		"Platform capacity 1000 LBs (450 kg)"	
15			DECAL, PLATFORM CAPACITY	
			(18-1/4" [464 mm] wide, black cutout letters)	
			(Was used on some earlier versions)	1
	10-145300		"Platform capacity 500 LBs (225 kg)"	
	10-149700		"Platform capacity 550 LBs (250 kg)"	
	10-149800		"Platform capacity 650 LBs (300 kg)"	
	10-216000		"Platform capacity 750 LBs (340 kg)"	
	10-149900		"Platform capacity 800 LBs (360 kg)"	
	10-150000		"Platform capacity 1000 LBs (450 kg)"	
16	10-012900		DECAL, "FORWARD" WITH ARROW	2

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Left side decals (typical version shown). Specific models or options may cause changes in decal location. See following page for illustration of Right side decals.

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DECALS, MP 40 THRU MP 80					
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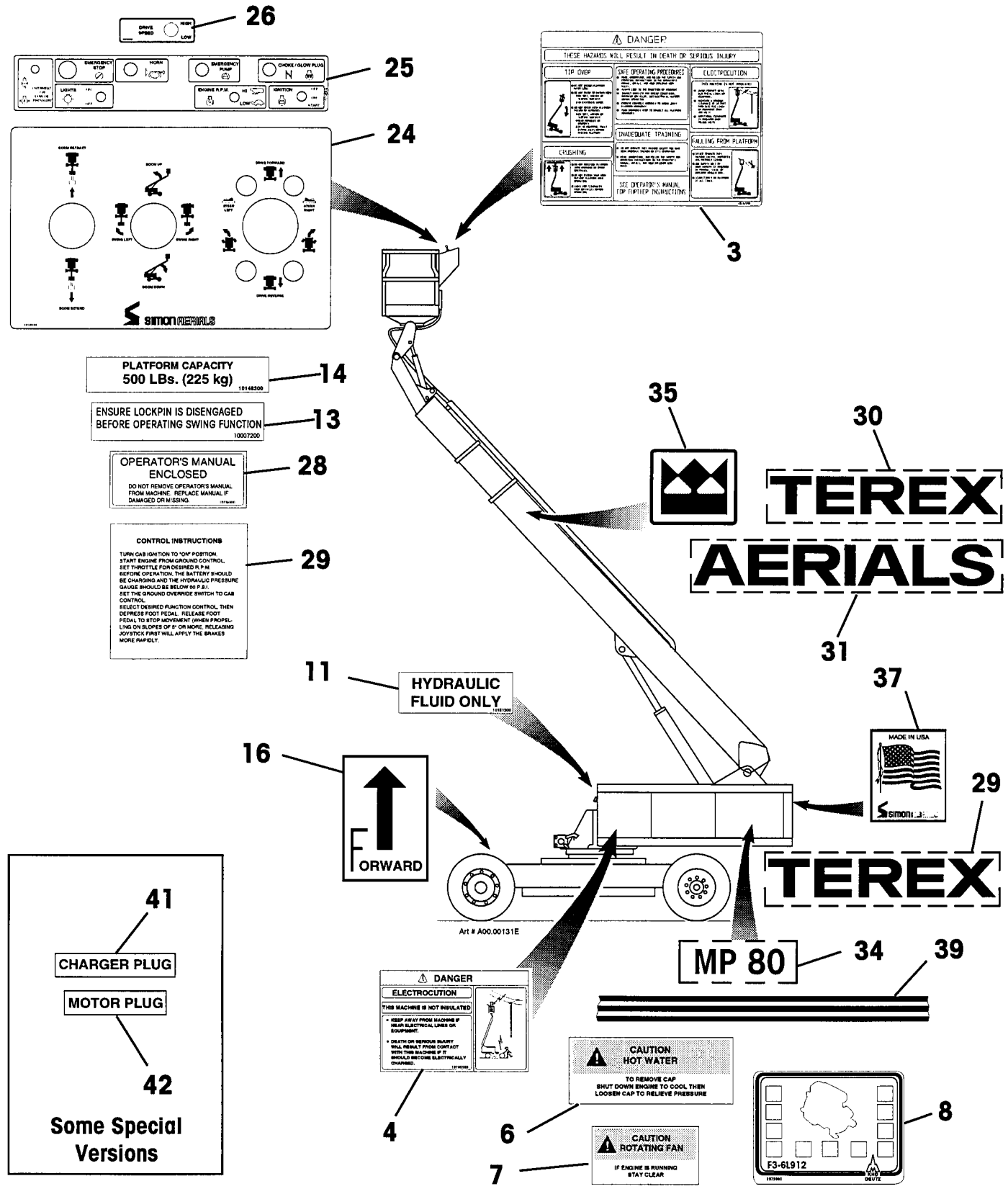
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
17	215 7710		DECAL, "FOR PROPER OPERATION - SET FUEL ..." (for some "Dual fuel" versions) (Decal was marked "215 7710" on some earlier versions)	1
18	10-016800		DECAL, "GAS/ OFF/ PROPANE" (for some "Dual fuel" versions)	1
19	10-025000		DECAL, "IN SWITCHING FROM GAS TO PROPANE ..." (for some "Dual fuel" versions)	1
20	10-107200		DECAL, "CAUTION" ("Steer system must be disengaged ...") (for versions with optional tow package)	1
21			DECAL, GROUND ELECTRICAL CONTROLS	1
	10-144300		Standard (with 3 Gauge cutouts, 6 Switch cutouts)	
	10-259200		Special Electric-powered (with 2 Gauge and 4 Switch cutouts)	
22			DECAL, GROUND CONTROL VALVES	1
	10-087400		With "Full Hydraulic" controls.	
	10-158600		With "Electro-Proportional" controls.	
23			PLACARD, REMOTE CONTROL PENDANT	1
	10-131500		Pendant has 3 toggle switches on front.	
	10-016400		Pendant has 5 toggle switches on front, 2 buttons on side. (modify to remove "High/ Low speed" switch hole at top)	
24			PLACARD, PLATFORM CONTROL VALVES	1
			With **"Electro-Proportional"** controls:	
	10-157200		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)	
	10-258900		Special Electric-powered ("Low voltage" indicator at top left, seven light switches across top, Sensor ring switch.)	
			With **"Full Hydraulic"** controls:	
	10-145000	shown	Standard (Lexan)	
	10-241100		Optional (Stencil-cut aluminum)	
	10-241400		SPACER (needed with aluminum control placard)	6
			With **"Hydraport"** controls:	
	10-065400		**Black lettering** on White. Two control levers.	
	10-225000		**White lettering** on Black. Three control levers.	
25			DECAL, PLATFORM ELECTRICAL CONTROLS	1
			With **"Full Hydraulic"** controls	
	10-222300		**Yellow** background around Emergency stop button	
	10-145900		**Red** background around Emergency stop button	
26	10-224800		DECAL, "DRIVE SPEED ..." (with optional 2 speed drive)	1
27			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

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DECALS, MP 40 THRU MP 80					
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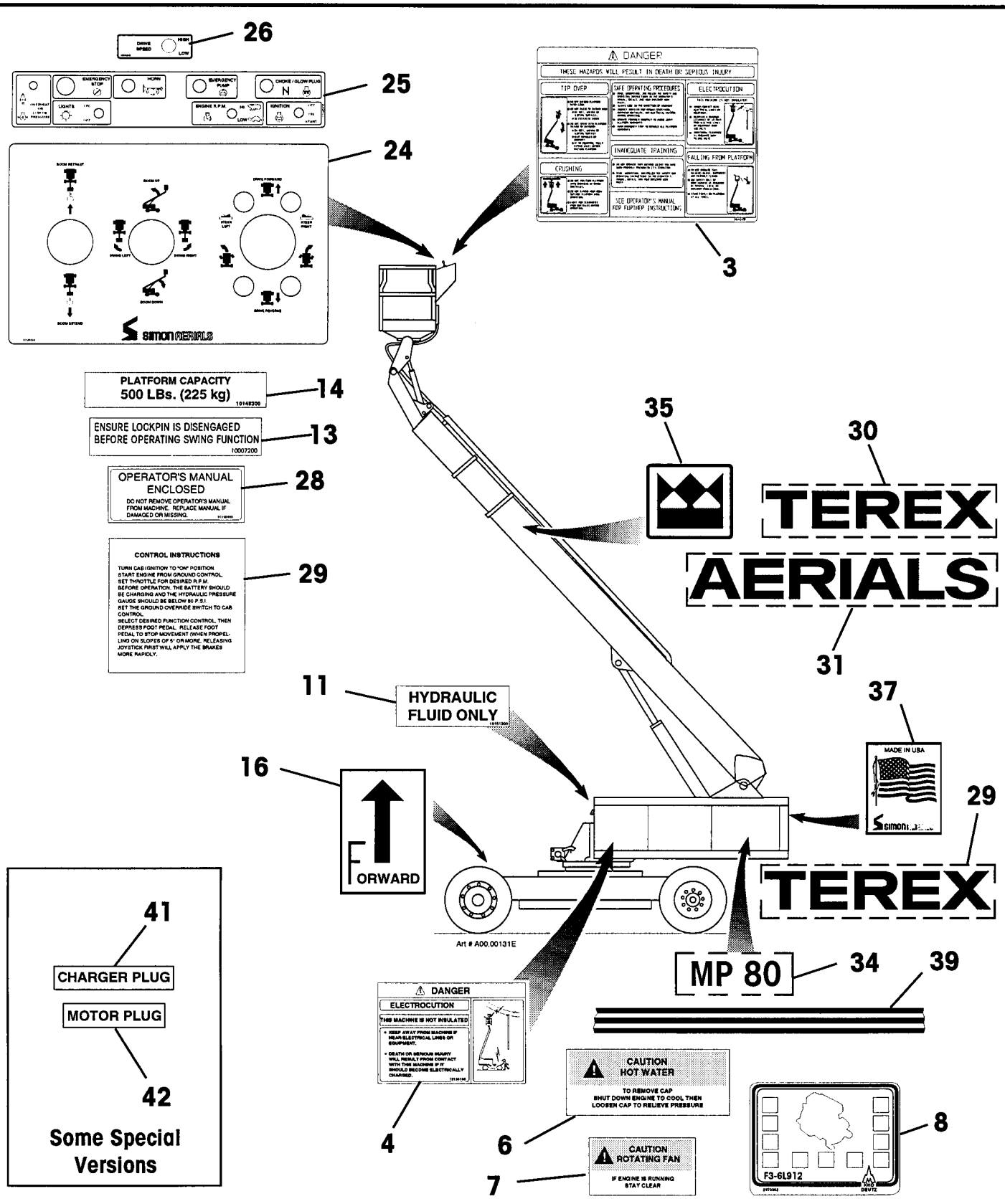
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
28	10-139800		DECAL, "OPERATOR'S MANUAL ENCLOSED"	1
29	10-012000		DECAL, "CONTROL INSTRUCTIONS ..." (with **"Hydraport"** controls)	1
30	10-284302		DECAL, "TEREX" NAME (Black, 5.12" [13 cm] high x 30.5" [77.5 cm] wide)	2
31	10-284402		DECAL, "AERIALS" NAME (Black, 5.12" [13 cm] high x 37.3" [94.8 cm] wide)	1
32	10-017100		DECAL, "SIMON" NAME (Black, 7" [178 mm] high) (earlier versions)	2
33	10-105900		DECAL, "SIMON" NAME (White, 5" [127 mm] high) (earlier versions)	1
34	10-131200		DECAL, MODEL "MP 40"	2
	10-133300		DECAL, MODEL "MPH 42"	2
	10-132000		DECAL, MODEL "MP 50"	2
	10-131100		DECAL, MODEL "MP 60"	2
	10-133400		DECAL, MODEL "MPH 60"	2
	10-132100		DECAL, MODEL "MP 70"	2
	10-132200		DECAL, MODEL "MP 80"	2
35	MK 181 976		DECAL, TEREX "CROWN" (Red/ Black, 9" [23 cm] wide x 7.9" [20 cm] high)	1
36	10-131900		DECAL, SIMON "S" LOGO (earlier versions) (Orange/ Gray, 9" [229 mm] wide x 13-1/2" [344 mm])	2
37	10-121600		DECAL, "MADE IN U.S.A."	1
38	10-126800		DECAL, STRIPE ([4] Orange stripes, 3-3/4" [95 mm] wide) (Bulk item, order as needed) (earlier versions)	A.R.
39	10-126900		DECAL, STRIPE ([3] Dk Gray stripes, 2-1/8" [54 mm] wide) (Bulk item, order as needed)	A.R.
40	10-031000		"SAF STEP" (Black) (4" [102 mm] wide x 60 ft [18.3 m] long roll)	A.R.
			The following items are used on some special versions:	
41	10-123000		DECAL, "CHARGER PLUG"	1
42	10-123100		DECAL, "MOTOR PLUG"	1

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