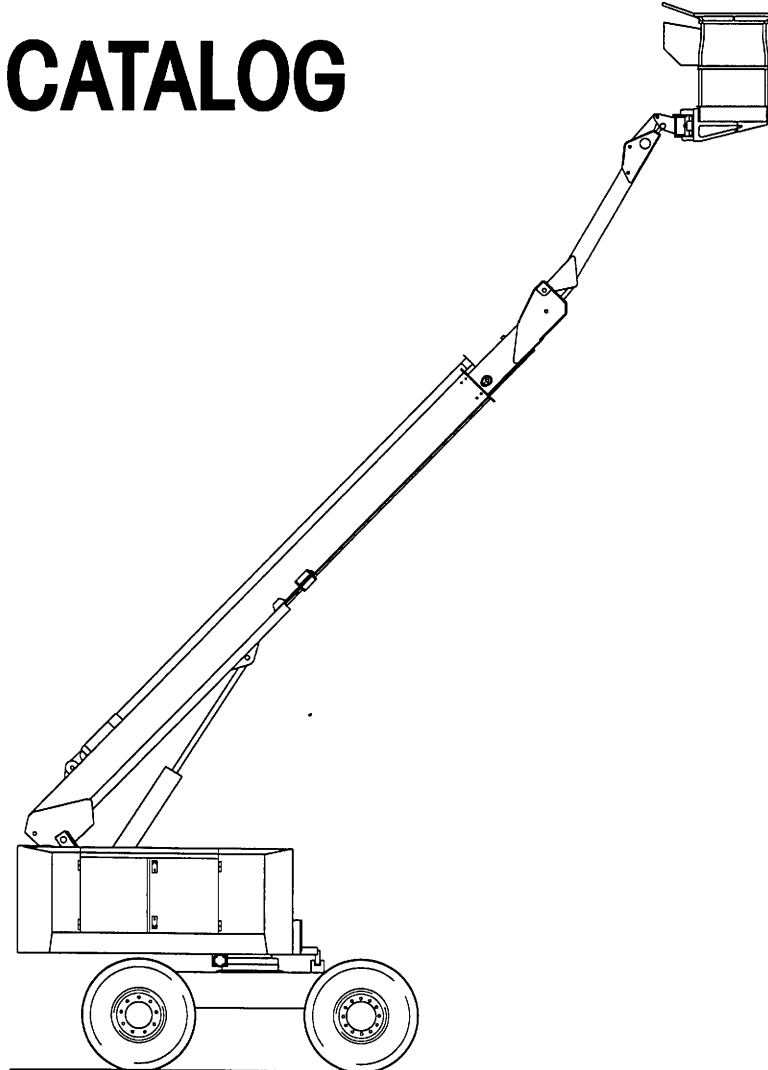


RP 46 "Reach Plus"

ILLUSTRATED PARTS CATALOG

FOR MACHINE
SERIAL NUMBER



Art # A00.00176E

Part No. 89-145005 • Rev. "0.2" dated February 1997 •

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INTRODUCTION

This Illustrated Parts Catalog is designed to help you identify and order the correct replacement parts for use on SIMON RP 46 "REACH PLUS" SELF-PROPELLED AERIAL WORK PLATFORMS. 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 proper OPERATION and reliable 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 "Table of Contents" pages list the specific sections, pages and page titles that are relevant to this model, and contained in this Catalog. Only those pages that refer specifically to RP 46 machines are included in this 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 B01 through F99. Each section contains the individual parts that make up a major component, assembly or item. The first four sections (B01 through B04) contain the major assemblies, or "Primary Machine Component Groups". Sections that follow contain sub-assemblies or components of these "major" assemblies.

If a part number is followed by a plate number in the "SEE SECTION" column, refer to the plate indicated for a further breakdown of components for that part number. Items with indented descriptions are components of the non-indented item directly above.

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 and Description
3. Order Quantity

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

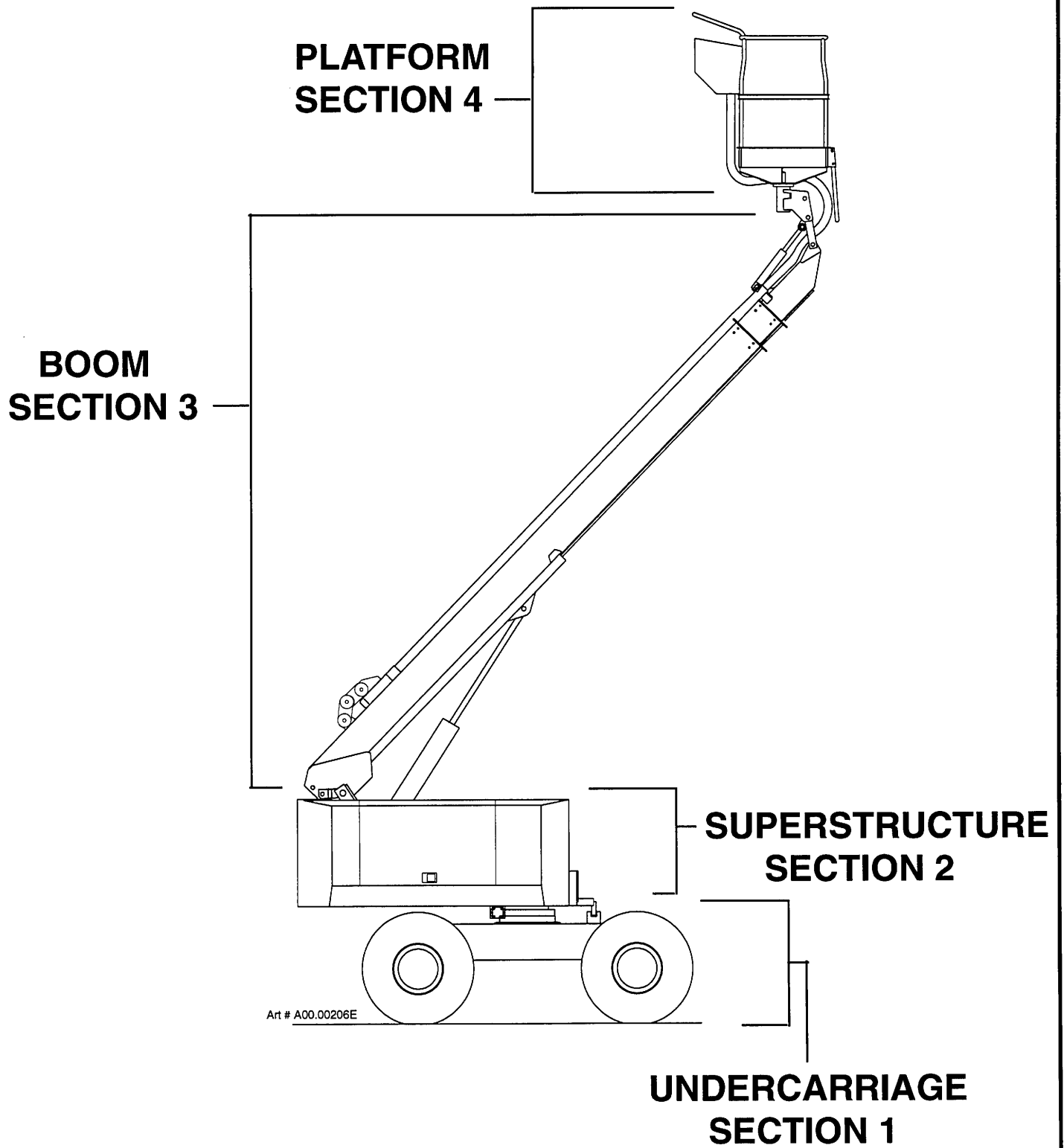
4. Parts Plate number, Item Number and Description of the desired item, OR
5. Part Number of the next assembly (Parent Part), if the desired item is not listed.

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.

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). All dimensions are in inches unless otherwise specified.

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

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



TITLE

PRIMARY MACHINE COMPONENT GROUPS

SIMON AERIALS INC.

PART
NO.

PLATE
NO.

PARTS LIST

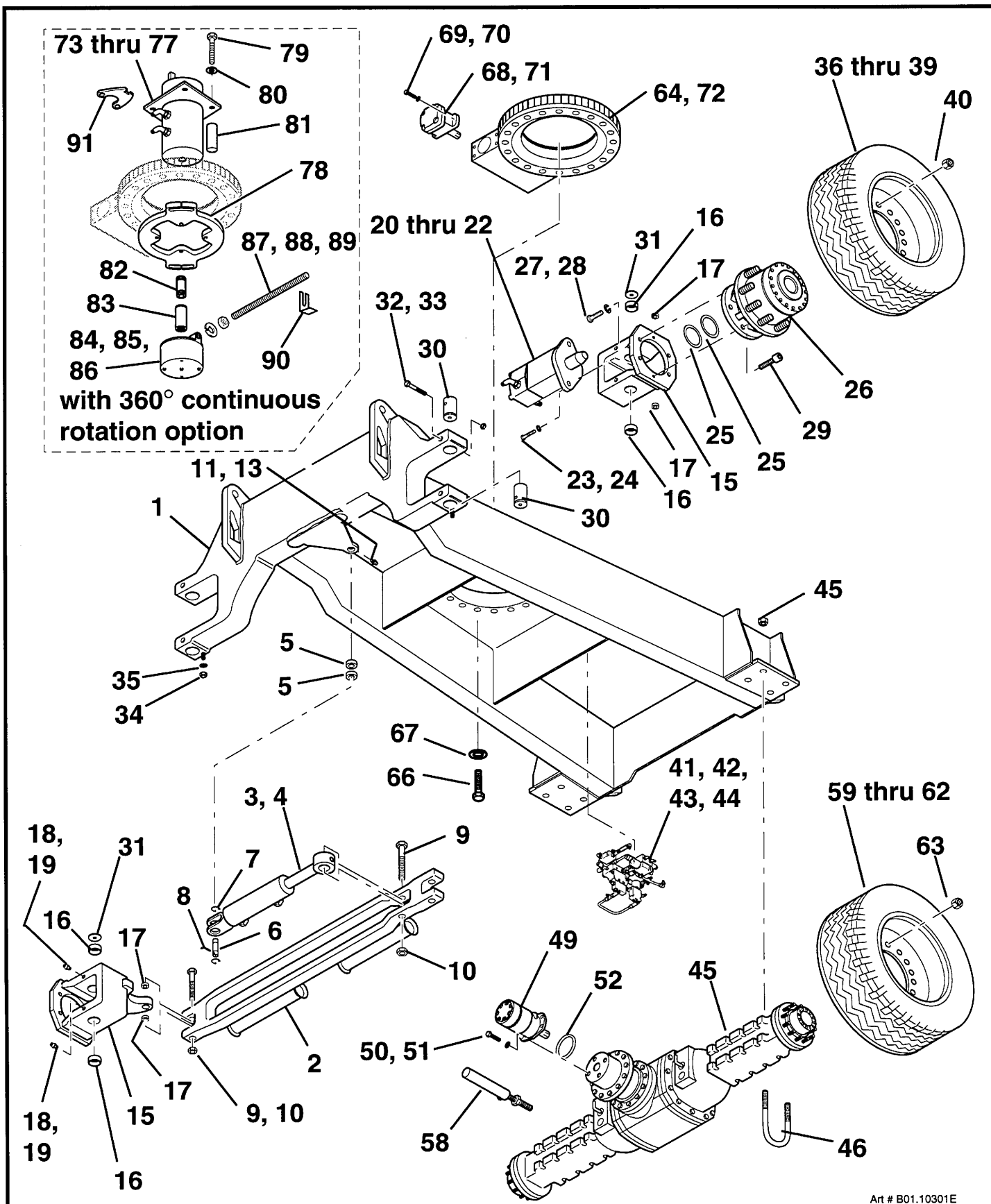
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	353 1540 354 5430		UNDERCARRIAGE ASSEMBLY For units without 360° continuous rotation option. For units with 360° continuous rotation option.	1
1	235 9070		UNDERCARRIAGE WELDMENT For Model RP 46	1
	234 1060		For Model T 50	
	231 6930		For Model T 60	
2	230 0640		ROD, TIE	1
3	04-035200	D01.101	CYLINDER, STEER	1
4	06-039900		ADAPTER, "O"-RING TO 37° (6-8 F5OX-S)	2
5	08-070400		BEARING, SLEEVE (Bronze, 1" I.D., 1-1/4" O.D., 1/2" long)	2
6	219 2580		PIN (1" x 3-9/32") (Steer cylinder, base end)	1
7	08-040600		RING, RETAINING (External, 1")	2
8	219 7360		PIN, "L" (for steer cylinder base end pin)	1
9	07-094300		CAP SCREW, HEX HEAD (1"-8 x 6", Grade 5)	3
10	07-090011		NUT, TOP LOCK (1"-8)	3
11	08-050000		FITTING, GREASE (1/8", Straight)	1
12	08-051300		FITTING, GREASE (1/8", 90°)	1
13	08-066300		CAP, GREASE FITTING (White plastic)	2
14	353 2110		MOTOR HOUSING ASSEMBLY, FRONT (Right)	1
	353 2120		MOTOR HOUSING ASSEMBLY, FRONT (Left)	1
15	230 6130		MOTOR HOUSING, FRONT (Right)	1
	230 6120		MOTOR HOUSING, FRONT (Left)	1
16	219 7350		BEARING, SLEEVE (modified 08-069500) (Bronze, 2" I.D., 2-3/8" O.D., 1-1/2" long)	2
17	08-069600		BEARING, SLEEVE (Bronze, 1" I.D., 1-1/4" O.D., 3/4" long)	2
18	08-050000		FITTING, GREASE (1/8", Straight)	3
19	08-066300		CAP, GREASE FITTING (White plastic)	3
20	01-221900	D03.103	MOTOR, HYDRAULIC (4.9 in ³ [80.3 c.c.]) (incl. lug nuts)	1
21	06-040300		ADAPTER, "O"-RING TO 37° (8-10 F5OX-S)	2
22	06-044500		90° ELBOW, "O"-RING TO 37° (6-4 C5OX-S)	1
23	07-003088		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 8)	2
24	07-065018		WASHER, HELICAL LOCK (1/2")	2
25	01-030900		SEAL (Rubber, 4" O.D., 2-1/2" I.D.)	2
26	02-041100	F01.101	HUB, DRIVE (Identification tag reads " W2B2FZ313 ")	1
27	07-004128		CAP SCREW, HEX HEAD (5/8"-11 x 1-3/4", Grade 8)	4
28	07-061021		WASHER, FLAT (5/8" SAE)	4
29	07-008087		CAP SCREW, SOCKET HEAD (1/2"-13 x 1-3/4", Grade 5)	2

TITLE UNDERCARRIAGE ASSEMBLY; RP 46, T 50, T 60 (PLATE 1 OF 4)

PLATE NO. **B01.103** **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



TITLE UNDERCARRIAGE ASSEMBLY; RP 46, T 50, T 60 (PLATE 1 OF 4)

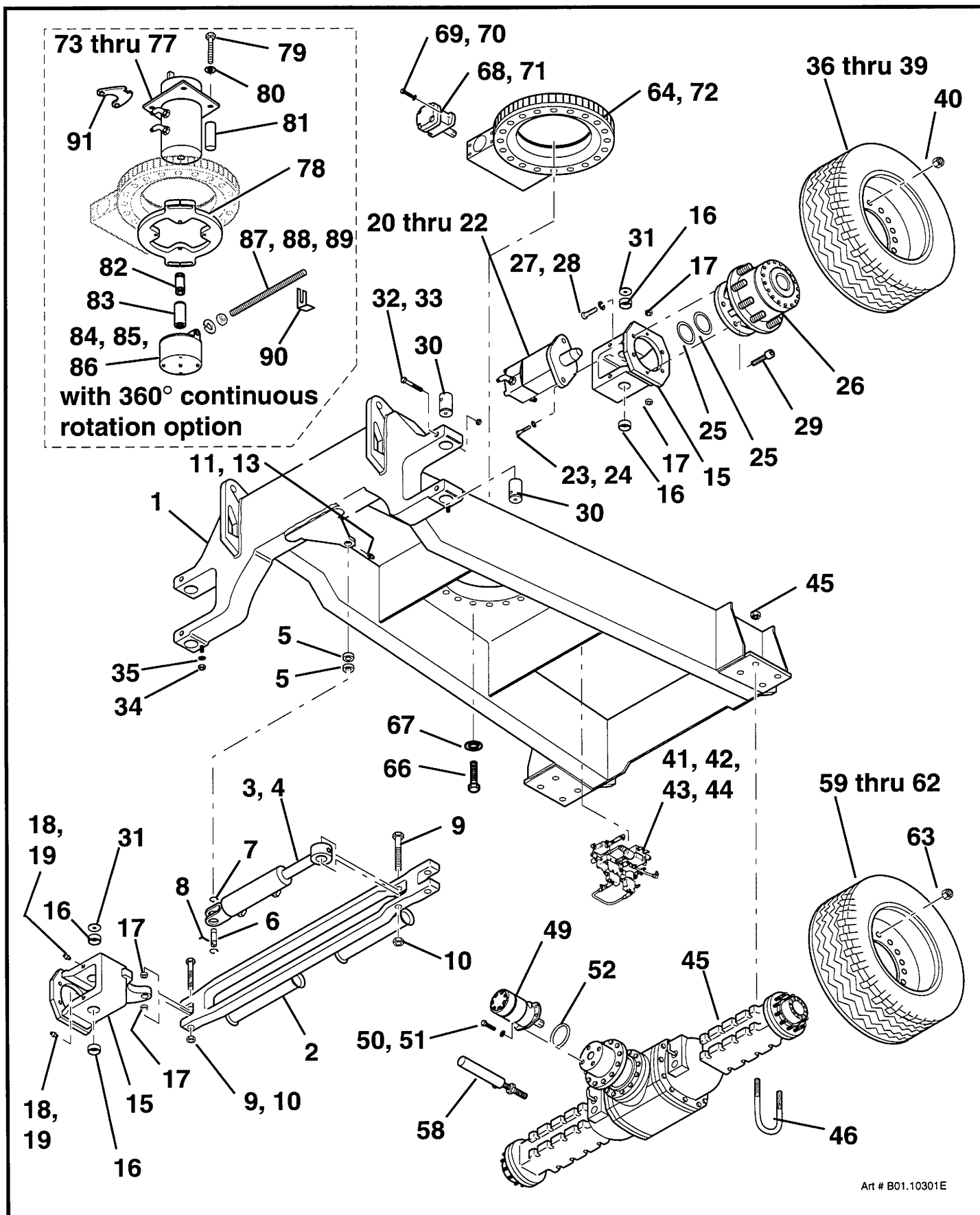
SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

PLATE
NO. B01.103

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
30	232 3630		PIN, KING (2" x 4-3/16") (replaces 219 2390)	4
31	08-004200		BEARING, THRUST (2" I.D., 3-5/8" O.D., 3/16" thick)	2
32	07-003098		CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 5)	4
33	07-058400		NUT, LOCK (1/2"-13, Grade 8)	4
34	07-050015		NUT, LOCK (5/16"-18, Grade 5)	2
35	07-060016		WASHER, FLAT (3/8" SAE) (some earlier versions)	2
	10-005700		WASHER, FENDER (5/16") (some earlier versions)	2
	07-062015		WASHER, FLAT (5/16") (some earlier versions)	2
36			WHEEL AND TIRE ASSEMBLY (for steer and drive axle)	
	353 1610		Liquid ballasted	2
	353 1620		Foam filled	2
37	02-041200		WHEEL (Steer and drive axle) (16-1/2" x 9-3/4")	1
38	02-041600		TIRE (390/ 70-16.5", 12 Ply "Gumbo Monster Mudder". Side wall must be marked " Simon ")	1
39	02-047400		INNER TUBE (use with 390/ 70-16.5" liquid ballasted tire)	1
40	07-098200		NUT, CROWN (5/8"-18, prevailing torque, with flange)	18
41			VALVE ASSEMBLY, MOTION CONTROL	1
	See Plate . .	C12.102	For units without 360° continuous rotation option.	
	See Plate . .	C12.103	For units with 360° continuous rotation option.	
42	55-000190		VALVE ASSEMBLY, STOP CUSHION	1
43	07-050015		NUT, LOCK (5/16"-18, Grade 5)	2
44	07-062015		WASHER, FLAT (5/16")	4
45	See Plate . .	C13.102	AXLE ASSEMBLY, REAR	1
46	07-096800		"U"-BOLT KIT (7/8"-14)	4
47	06-210800		MALE CONNECTOR, STRAIGHT THREAD (#4, M10-1.5 mm, 7/16"-20) (for brake port)	2
48	06-051300		90° ELBOW, SWIVEL NUT (4 C6X-S)	2
49	01-224800	D03.104	MOTOR, HYDRAULIC (18 in ³ [295 c.c.])	1
50	07-012100		CAP SCREW, HEX HEAD (M 12-1.75 x 40 mm, Class 8.8) (hydraulic motor mounting to axle) (comes with axle)	4
51	07-061018		WASHER, FLAT (hydraulic motor mounting to axle) (1/2" SAE, hardened) (comes with axle)	4
52	01-219800		"O"-RING (3-1/4" I.D.)	1
53	07-096300		CAP SCREW, HEX HEAD (5/8"-18 x 1-1/4", Grade 5)	1
54			WASHER (comes with axle)	1
55	10-159000		SHIM (.062" I.D., 1" O.D., .093" thick)	1
56	06-045500		90° ELBOW, "O"-RING TO 37° (12-10 C5OX-S) (comes with axle)	1
57	06-097400		ADAPTER, 90° BENT STEM (4 IT3-12-12) (comes with axle)	1
TITLE UNDERCARRIAGE ASSEMBLY; RP 46, T 50, T 60 (PLATE 2 OF 4)				
PLATE NO. B01.103		SIMON AERIALS INC.		PART NO.
REV. 19 FEB., 1997				



TITLE UNDERCARRIAGE ASSEMBLY; RP 46, T 50, T 60 (PLATE 2 OF 4)

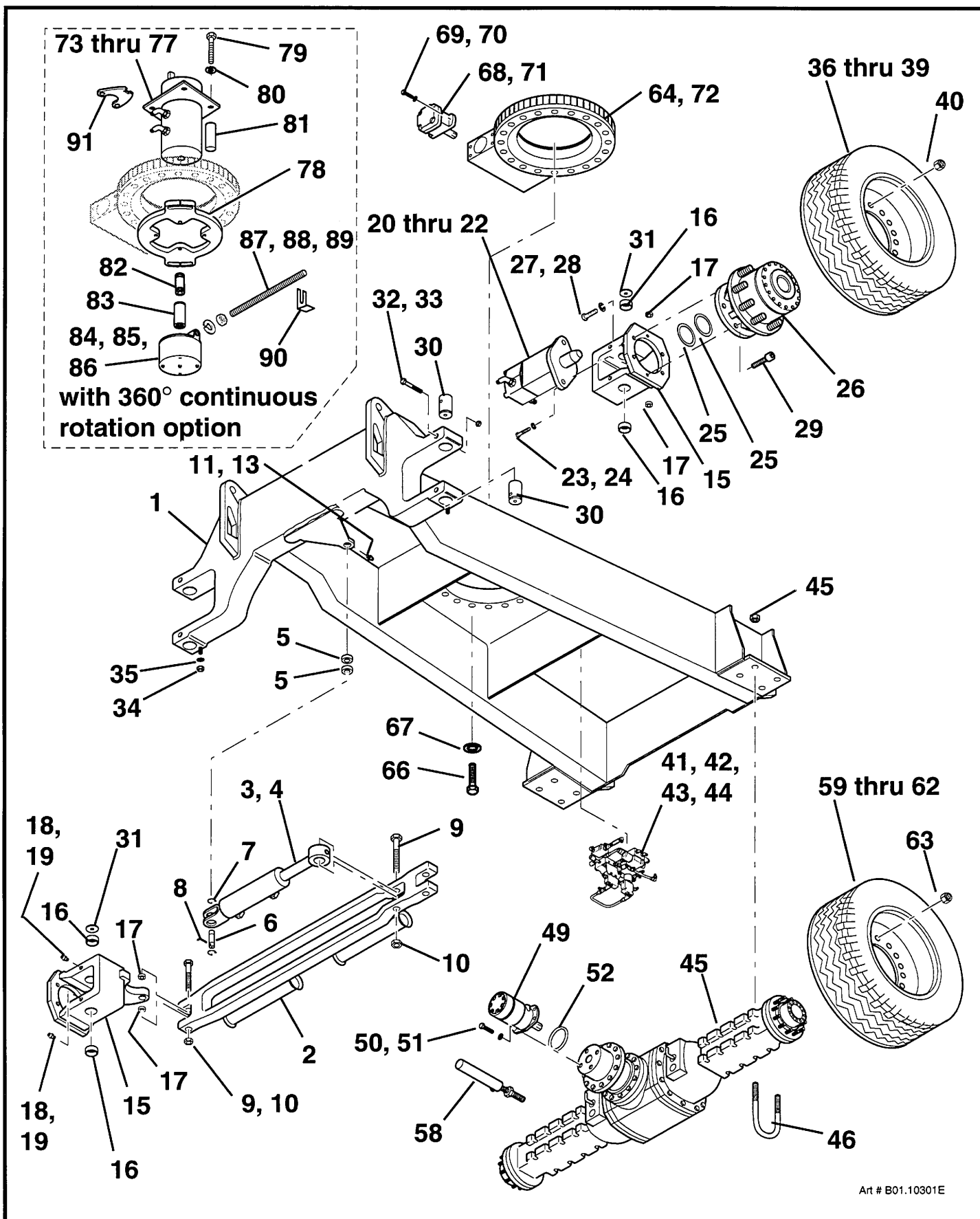
SIMON AERIALS INC.

REV. 19 FEB, 1997

PART
NO.

PLATE
NO. B01.103

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
58	04-037700	C13.103	CYLINDER, AXLE DISCONNECT	1
59			WHEEL AND TIRE ASSEMBLY (for drive axle)	
	353 3050		Liquid ballasted	2
	353 3060		Foam filled	2
60	02-040300		WHEEL (Drive axle) (16-1/2" x 9-3/4")	1
61	02-041600		TIRE (390/ 70-16.5", 12 Ply "Gumbo Monster Mudder". Side wall must be marked " Simon ")	1
62	02-047400		INNER TUBE (use with 390/ 70-16.5" liquid ballasted tire)	1
63	07-095700		NUT, HEX (Self-locking, M18-1.5)	12
64	08-069000	F02.101	SWING BEARING	1
65	10-126400		LUBRICANT, OPEN GEAR (Caulk tube) (for use on swing gear teeth)	A.R.
66			CAP SCREW, HEX HEAD for units without 360° continuous rotation option: 5/8"-11 x 3-1/2", Grade 8	20
	07-004135		for units with 360° continuous rotation feature or option: 5/8"-11 x 4-1/2", Grade 8	18
	07-004138		5/8"-11 x 5", Grade 8	2
	07-004139			
67	07-061021	D06.101	WASHER, FLAT (5/8" SAE)	20
68	01-210200		MOTOR, HYDRAULIC (10 in ³ [164 c.c.]	1
69	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	2
70	07-065018		WASHER, HELICAL LOCK (1/2")	2
71	06-040000		ADAPTER, "O"-RING TO 37° (6-10 F5OX-S)	2
72	11-085700		NIPPLE, PIPE (1/8" x 5-1/2", for swing bearing lubrication)	1
73	04-008700	D02.01	SWIVEL, HYDRAULIC (with 360° continuous rotation)	1
74			ADAPTER, "O"-RING TO 37° Earlier versions (12-16 F5OX-S)	2
	06-041100		Later versions (16 F5OX-S)	
	06-041400		90° ELBOW, "O"-RING TO 37° 12-16 C5OX-S (Earlier versions)	2
75	06-045600		16 C5OX-S (Later versions)	
	06-045800		ADAPTER, "O"-RING TO 37° (6-8 F5OX-S)	5
76	06-039900		90° ELBOW, "O"-RING TO 37° (6-8 C5OX-S)	3
77	06-044700		PLATE, HYDRAULIC SWIVEL ADAPTER Early version (19" [.48 M] outside diameter)	1
78	230 7500		Later version (14" [.36 M] outside diameter, with (2) ears)	
	233 0110			
79			CAP SCREW, HEX HEAD 1/2"-13 x 1-1/4", Grade 5 (for use with Plate 230 7500)	4
	07-003086		1/2"-13 x 4-1/2", Grade 5 (for use with Plate 233 0110)	
	07-003098			
80	07-065018		WASHER, HELICAL LOCK (1/2")	4
81	233 0100		SPACER, TUBE (used with Plate 233 0110)	4
82	11-020010		NIPPLE, PIPE (3/4" NPT x 2")	1
83	206 7559		ADAPTER, HYDRAULIC TO ELECTRICAL SWIVEL	1
TITLE UNDERCARRIAGE ASSEMBLY; RP 46, T 50, T 60 (PLATE 3 OF 4)				
PLATE NO. B01.103		SIMON AERIALS INC.		PART NO.
REV. 19 FEB., 1997				



Art # B01.10301E

TITLE UNDERCARRIAGE ASSEMBLY; RP 46, T 50, T 60 (PLATE 3 OF 4)

SIMON AERIALS INC.

REV. 19 FEB., 1997

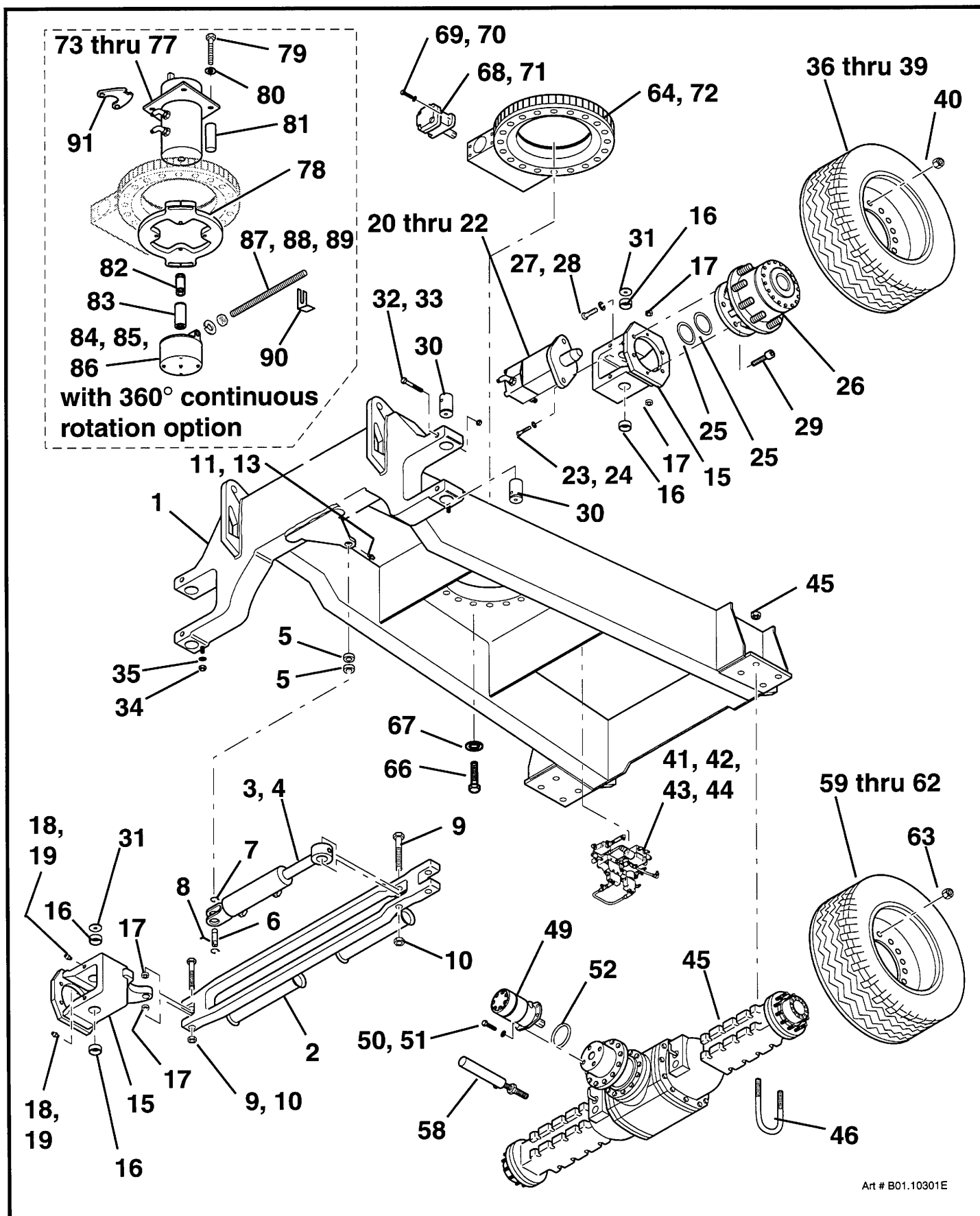
PART
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PLATE
NO. B01.103

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PLATE NO. B01.103	SIMON AERIALS INC.
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PART
NO.



TITLE UNDERCARRIAGE ASSEMBLY; RP 46, T 50, T 60 (PLATE 4 OF 4)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

PLATE
NO. B01.103

PARTS LIST

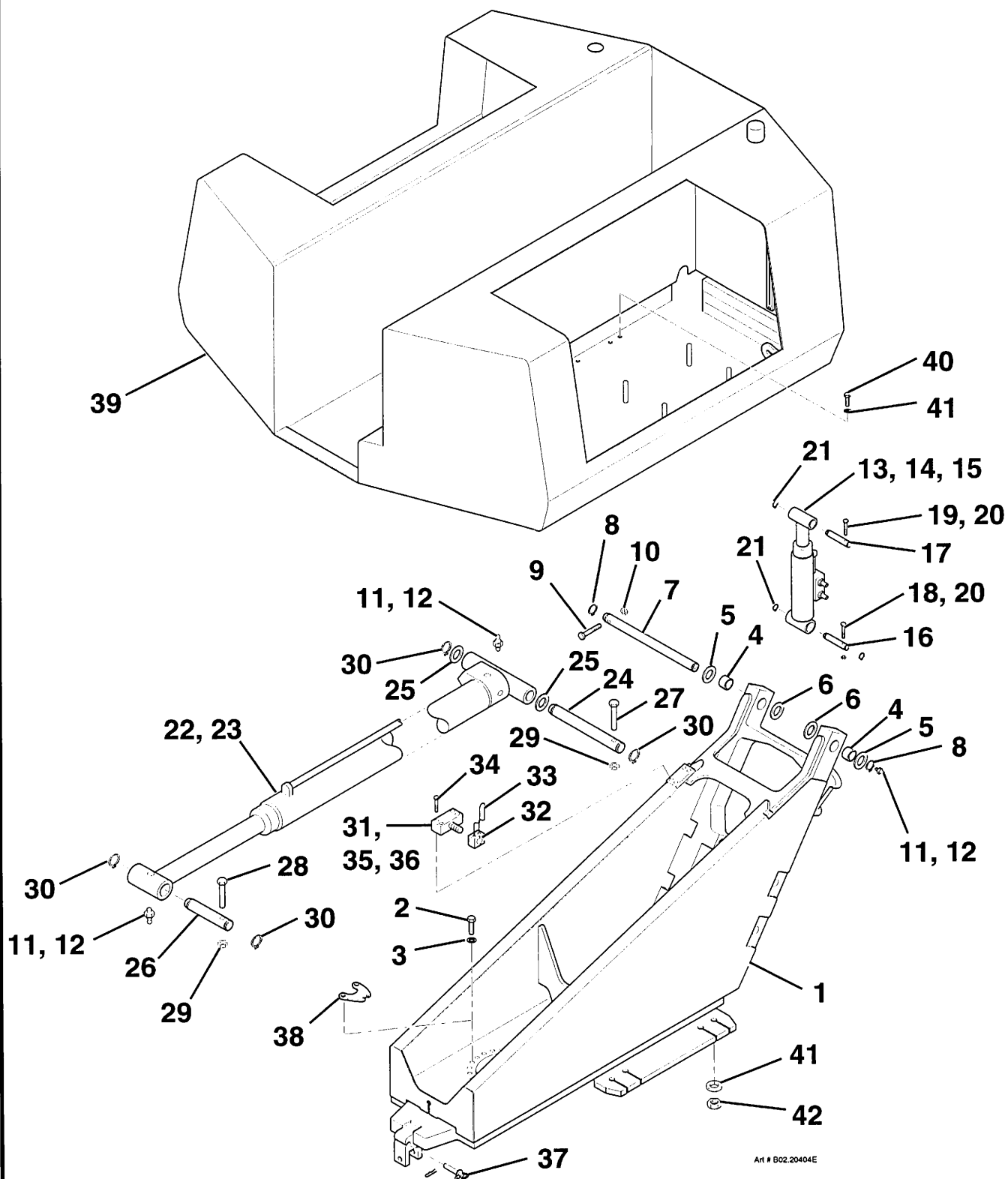
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SUPERSTRUCTURE ASSEMBLY	1
	354 6170		with side-hinged doors (later versions): without engine-related items	
	354 6200		with optional Ford LRG or LSG 423 liquid cooled engine:	
	354 6180		Gasoline	
	Call Simon		Dual fuel	
			with engines not listed above	
	353 8630		with upward-opening doors (earlier versions): without engine-related items	
	353 1300		with optional Ford LSG 423 liquid cooled gas engine	
	354 0800		with optional Deutz F4L 1011 air cooled Diesel engine	
	Call Simon		with engines not listed above	
1	234 6970		PYLON WELDMENT, SUPERSTRUCTURE	1
2	07-004138		CAP SCREW, HEX HEAD (5/8"-11 x 4-1/2", Grade 8)	21
	07-004139		CAP SCREW, HEX HEAD (5/8"-11 x 5", Grade 8)	2
3	07-061021		WASHER, FLAT (5/8" SAE)	23
4	08-069200		BEARING, SLEEVE (2" I.D., 2-3/8" O.D., 2-1/2" long)	2
5	07-094400		BUSHING, WIDE RIM (2-1/8" I.D., 3-5/8" O.D., #10 Ga.)	2
6	08-004200		BEARING, THRUST (2-1/32" I.D., 3-5/8" O.D., 3/16" thick)	2
7	231 3660		PIN, BOOM PIVOT (2" x 19-3/8") (replaces 219 0600)	1
8	08-041100		RING, RETAINING (2")	2
9	07-003096		CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5)	1
10	07-058400		NUT, HEX LOCK (1/2"-13, Grade 8)	1
11	08-050000		FITTING, GREASE (1/8", straight)	4
	08-051300		FITTING, GREASE (1/8", 90°)	3
12	08-066300		CAP, GREASE FITTING (White plastic)	7
13	04-032600	D10.101	CYLINDER, MASTER LEVEL	1
14	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	2
15	06-048500		RUN TEE, MALE "O"-RING TO 37° (6 R5OX-S)	1
16	231 3600		PIN, MASTER CYLINDER (1-1/4" x 13-15/16") (Base end) (replaces 219 2550)	1
17	233 7290		PIN, MASTER CYLINDER (1-1/4" x 9-15/16") (Rod end) (replaces 233 6200, which was 9-3/4" long)	1
18	07-003061		CAP SCREW, HEX HEAD (3/8"-16 x 4-3/4", Grade 5)	1
19	07-003055		CAP SCREW, HEX HD (3/8"-16 x 3-1/2", Grade 5)	1
20	07-050016		NUT, LOCK (3/8"-16, Grade 5)	2
21	08-040700		RING, RETAINING (1-1/4", external)	4
22	See Plate . .	D09. - -	CYLINDER, BOOM LIFT	1
23	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	2
24	232 0280		PIN, LIFT CYLINDER (1-1/2" x 19") (Base end)	1
25	232 0290		SPACER, LIFT CYLINDER PIN	

TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 1 OF 12)

PLATE NO. B02.204 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



Art # B02.20404E

TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 1 OF 12)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

PLATE
NO. B02.204

PARTS LIST

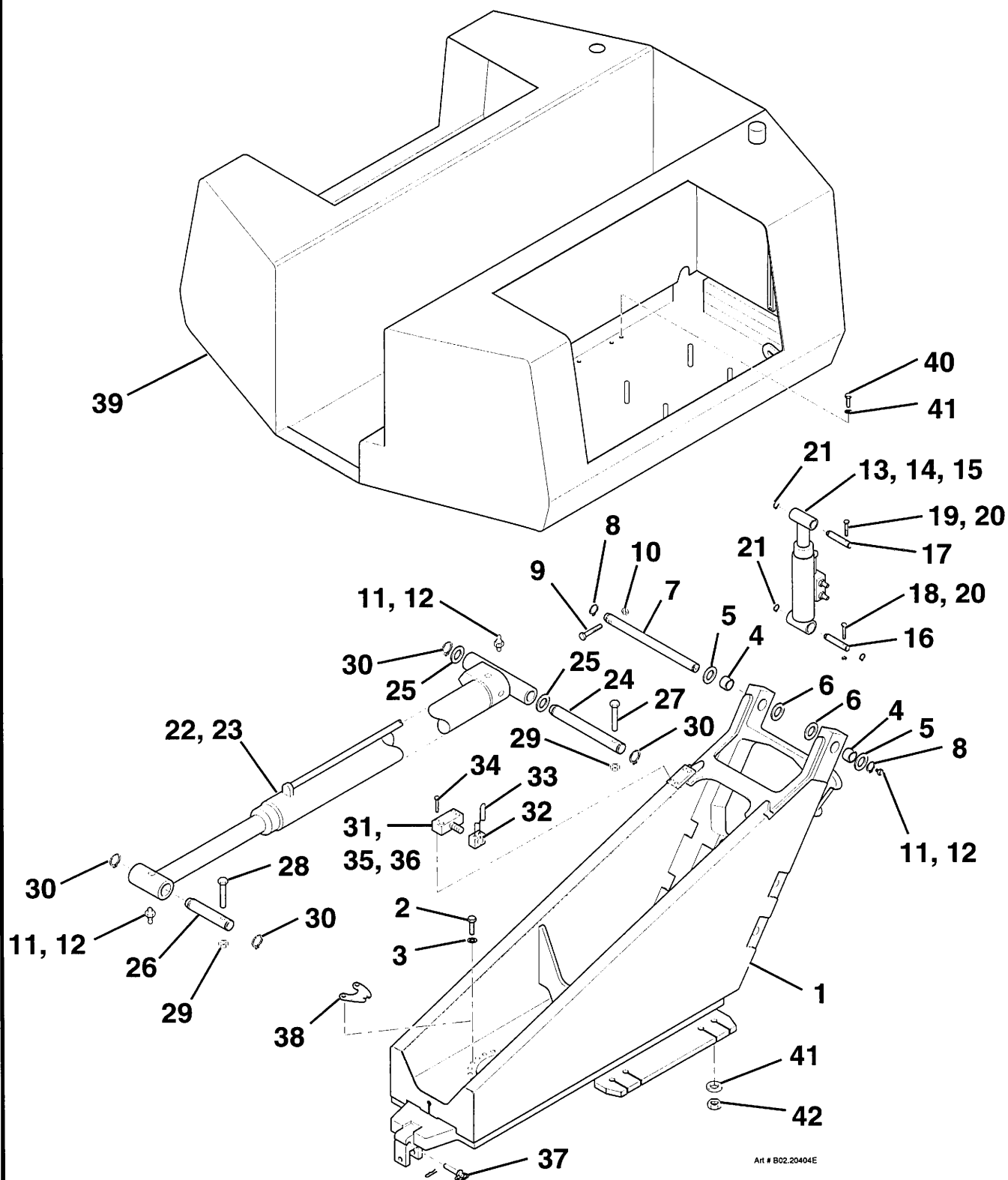
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
26	233 7300		(1-5/8" I.D., 3" O.D., 3/8" thick) PIN, LIFT CYLINDER (1-3/4" x 11-1/4") (Rod end) (replaces 233 5880)	2 1
27	07-003061		CAP SCREW, HEX HEAD (3/8"-16 x 4-3/4", Grade 5)	1
28	07-003055		CAP SCREW, HEX HEAD (3/8"-16 x 3-1/2", Grade 5)	1
29	07-050016		NUT, LOCK (3/8"-16, Grade 5)	2
30	08-041000		RING, RETAINING (1-3/4", external)	4
31	03-493800		SWITCH, LIMIT (Side rotary, with 2 normally open and 2 normally closed contacts)	1
32	03-494100		ARM, LIMIT SWITCH (includes 6" nylon loop, which must be removed and replaced with rod, below)	1
33	230 1360		ARM, LIMIT SWITCH (Stainless steel rod)	1
34	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	2
35	03-045500		GRIP, CORD (1/2", with .31" to .38" seal)	1
36	03-085700		CABLE, ELECTRICAL (SJO, 4 conductor, #16 AWG) (Bulk item. 15 ft [4.6 M] required this application)	A.R.
37	07-080008		PIN, HITCH (3/4" x 4-3/4") without lanyard (standard)	1
38	233 9490		with lanyard (option)	
39	231 1610		PLATE, SWIVEL LOCK	1
			ENGINE MODULE WELDMENT	1
			with side-hinged doors (later versions):	
	235 7760		with standard Wisconsin W4-1770 air cooled gas engine	
	235 7750		with optional Ford LRG/ LSG 423 liquid cooled gas engine	
	235 7780		with optional Wisconsin V-465 air cooled gas engine	
	235 7740		with optional Deutz F3L 1011 air cooled Diesel engine	
	235 7770		with optional Deutz F4L 1011 air cooled Diesel engine	
	235 7800		with optional Isuzu C-240 liquid cooled Diesel engine	
	235 7790		with optional Perkins 104.22 liquid cooled Diesel engine	
	Call Simon		with engines not listed above	
			with upward-opening doors (earlier versions):	
	234 2730		with standard Wisconsin W4-1770 air cooled gas engine	
	234 2720		with optional Ford LRG/ LSG 423 liquid cooled gas engine	
	234 2750		with optional Wisconsin V-465 air cooled gas engine	
	234 2740		with optional Deutz F3L 1011 air cooled Diesel engine	
	234 2760		with optional Deutz F4L 1011 air cooled Diesel engine	
	234 2780		with optional Isuzu C-240 liquid cooled Diesel engine	
	234 2780		with optional Perkins 104.22 liquid cooled Diesel engine	
	Call Simon		with engines not listed above	
40	07-004152		CAP SCREW, HEX HEAD (3/4"-10 x 2-3/4", Grade 8)	8
41	07-061022		WASHER, FLAT (3/4" SAE)	16
42	07-050022		NUT, STOP (3/4"-10, Grade 5)	8

TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 2 OF 12)

PLATE NO. B02.204 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



Art # B02.20404E

TITLE

SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 2 OF 12)

SIMON AERIALS INC.

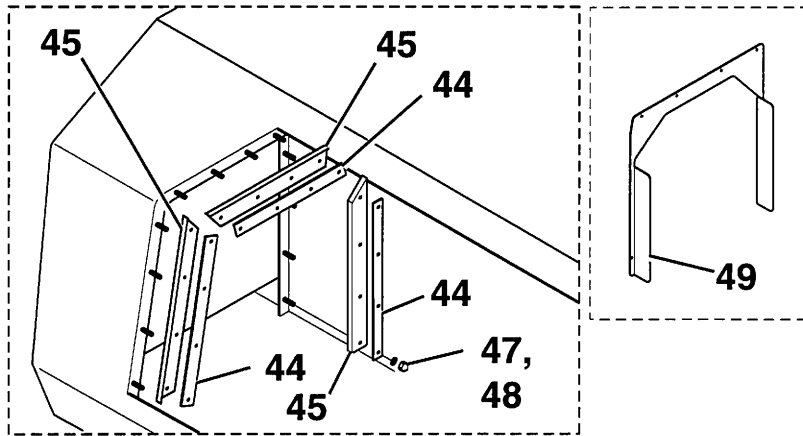
REV. 19 FEB., 1997

PART
NO.

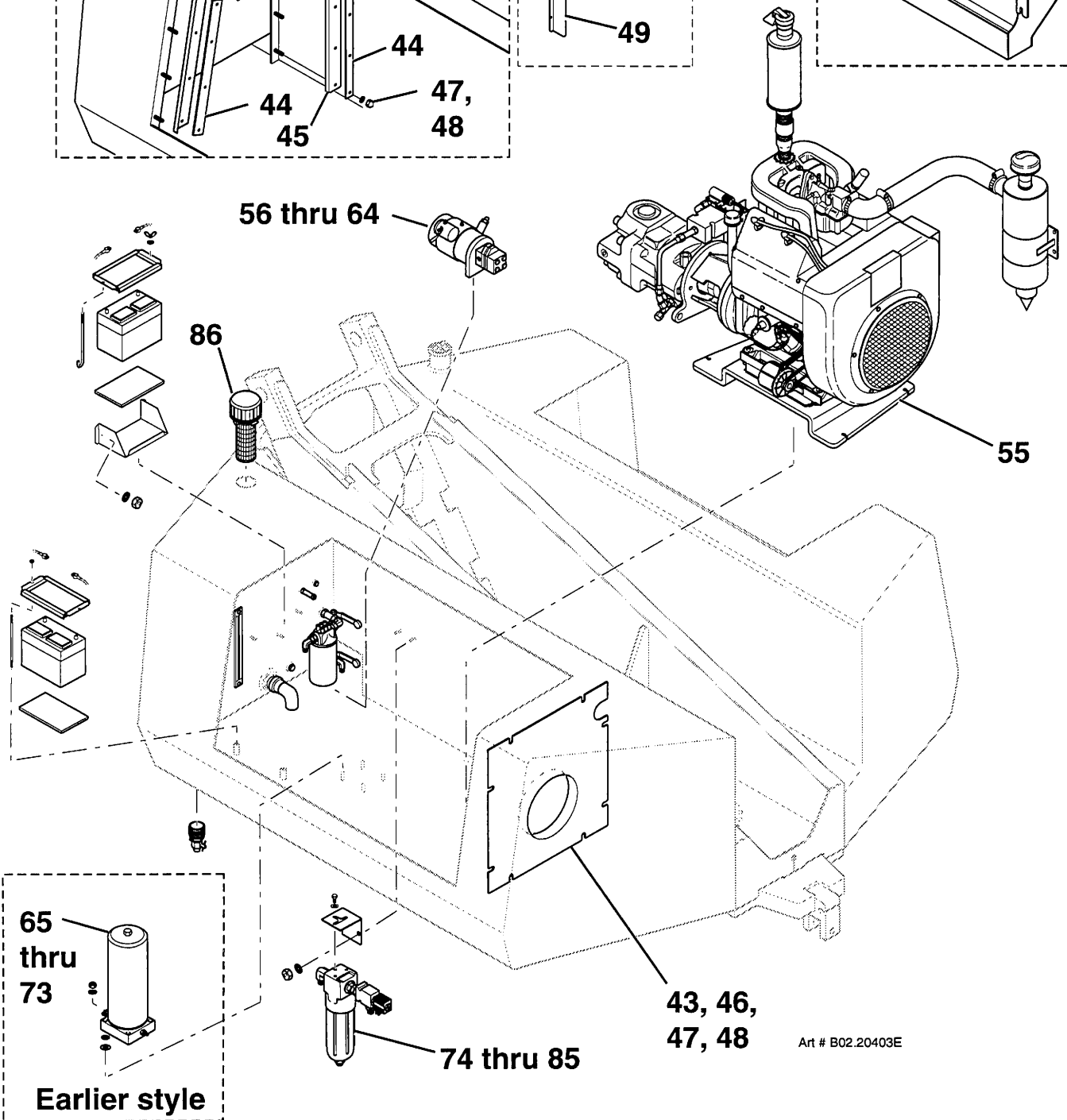
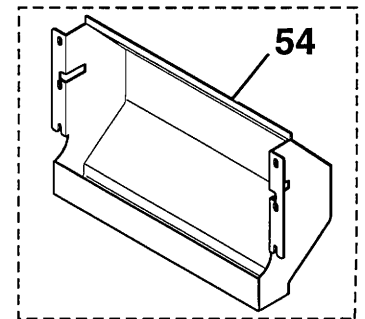
PLATE
NO. B02.204

ITEM	PART NO	SEE SECTION
43	219 8750 231 8710	
	230 1850 232 2290 Call Simon	
44	230 7750	
45	230 7730	
	230 7740	
46	231 8690	
47	07-044014	
48	07-062014	
49	235 7360	
50	07-040014	
51	07-065014	
52	07-062014	
53	07-029365	
54	230 2820 233 3580	shown
55	See Index	C04. - -
56	01-224900	D07.10
57	06-040500	
58	06-044600	
59	06-079000	
60	01-226000	
61	01-226001	
62	07-003046	
63	07-062016	
64	07-065016	
TITLE SUPERST		
PLATE NO.	B02.204	SIMC

Bulkhead Seals (with Ford Engine)
(earlier style) (later style)



Air Duct (earlier style) (Hatz Engine)



Art # B02.20403E

TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 3 OF 12)

SIMON AERIALS INC.

REV. 19 FEB., 1997

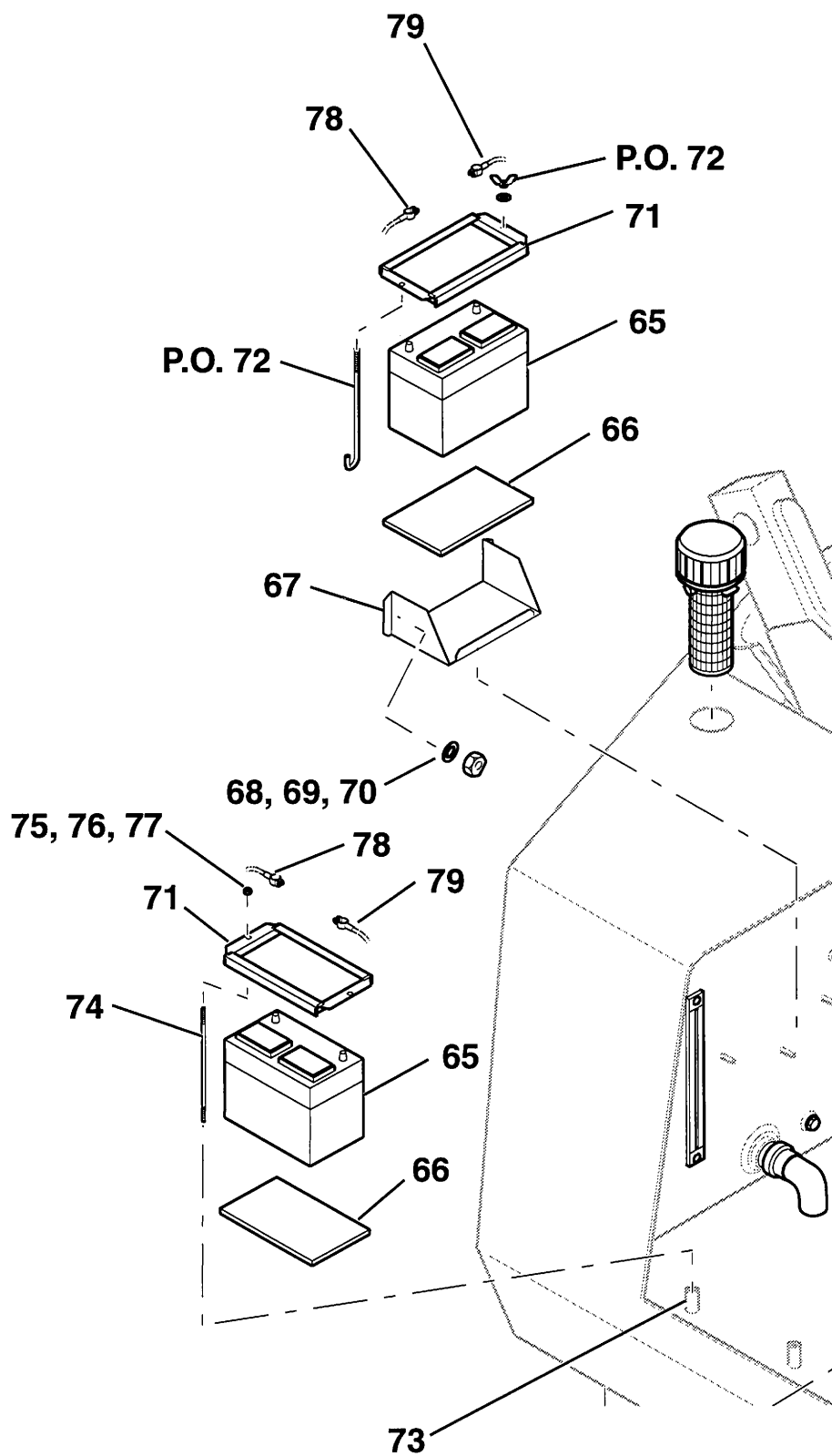
**PART
NO.**

**PLATE
NO.** B02.204

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PLATE NO.	B02.204	SIMON AERIALS INC.
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PART
NO.



TITLE

SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 4 OF 12)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

PLATE
NO. B02.204

PARTS LIST

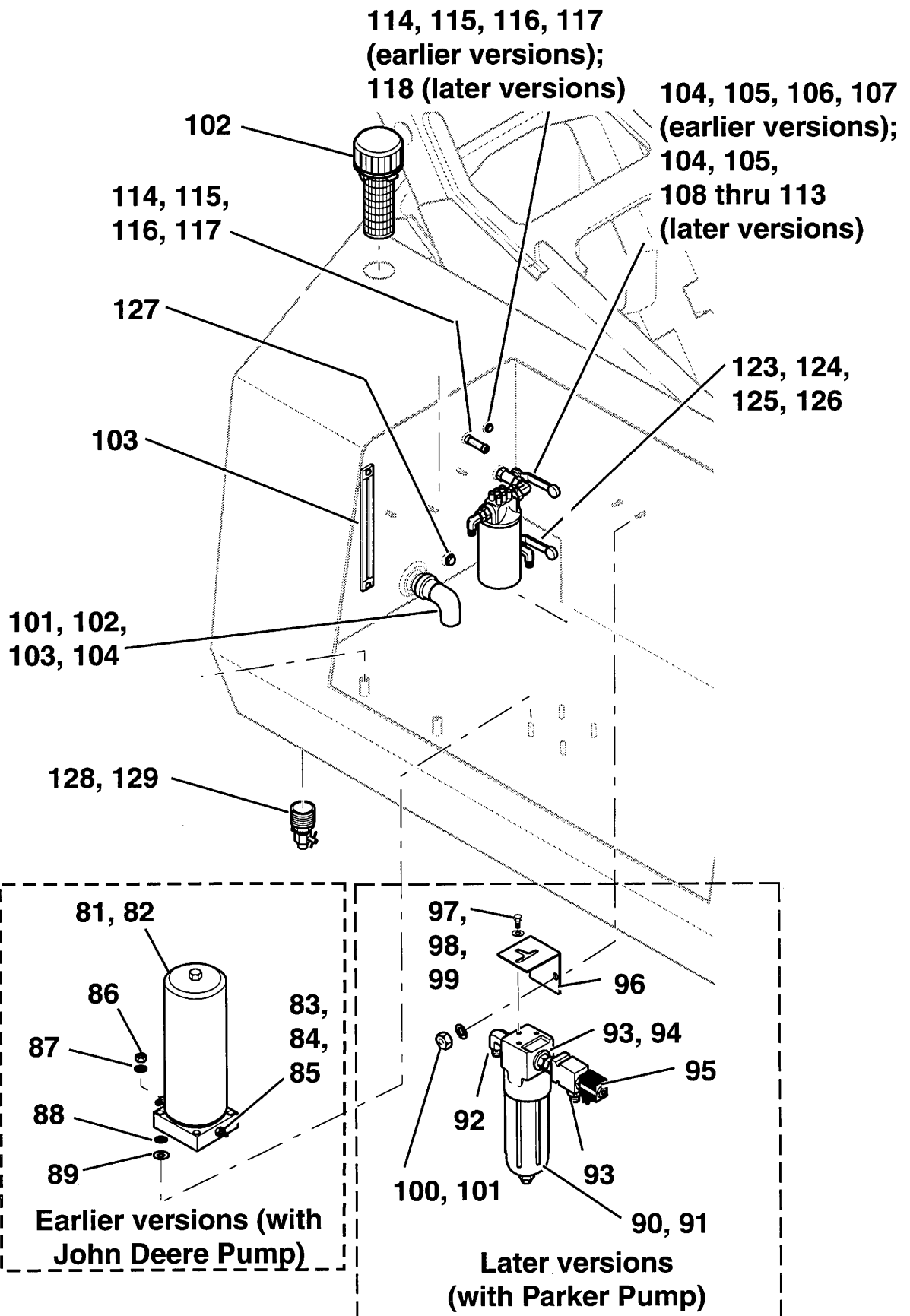
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
81	01-014000	D11.03	FILTER, HYDRAULIC (Pressure line) (Deck mounted) (for earlier versions, with John Deere Pump)	1
82	01-014005		ELEMENT, FILTER (3 micron, paper)	
83	06-092500		REDUCER/ EXPANDER (24-12 F5O G5-S)	2
84	06-040800		ADAPTER, "O"-RING TO 37° (12 F5OX-S)	1
85	06-045400		90° ELBOW, "O"-RING TO 37° (12 C5OX-S)	1
86	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	4
87	07-062016		WASHER, FLAT (3/8")	4
88	10-002600		WASHER, FENDER (1/2" I.D., 2" O.D.)	4
89	10-086500		WASHER, RUBBER (1/2" I.D., 2" O.D.)	4
90	01-237500		FILTER, HYDRAULIC (High pressure, in line, 6000 PSI, non-bypass) (for later versions, with Parker Pump)	1
91	01-237501		ELEMENT, FILTER	1
92	06-045800		90° ELBOW, "O"-RING TO 37° (16 C5OX-S)	1
93	06-041400		ADAPTER, "O"-RING TO 37° (16 F5OX-S)	2
94	06-215200		CONNECTOR, SWIVEL NUT (16 F65OX-S)	1
95	01-239400		VALVE, PRESSURE SHUTOFF	1
96	235 3270		BRACKET, HYDRAULIC FILTER MOUNTING	1
97	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	3
98	07-062016		WASHER, FLAT (3/8")	3
99	07-065016		WASHER, HELICAL LOCK (3/8")	3
100	07-058400		NUT, HEX LOCK (1/2"-13, Grade 8)	2
101	07-062018		WASHER, FLAT (1/2")	2
102	01-097800		CAP ASSEMBLY, HYDRAULIC TANK (includes 10 micron filter, breather and strainer)	1
103	10-033800	D12.05	GAUGE, SIGHT (14" [35.6 cm] long)	1
			Fittings for hydraulic tank, upper 1" NPT port:	
104	11-020014		CLOSE NIPPLE (1" NPT)	1
105	01-068500		VALVE, BALL (Shutoff valve, 1" NPT) earlier versions, with John Deere Pump (not shown):	1
106	06-002000		CONNECTOR, MALE 37° TO NPT (12-16 FTX-S)	1
107	06-054800		RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S) later versions, with Parker Pump (shown):	1
108	06-005200		90° ELBOW, MALE 37° TO NPT (16 CTX-S)	1
109	06-215200		CONNECTOR, SWIVEL NUT (16 F65OX-S)	1
110	06-092600		REDUCER/ EXPANDER (24-16 F5O G5)	2
111	01-238000		FILTER, HYDRAULIC (Return line)	1
112	01-238001		CANISTER, FILTER (with 10 micron element)	1
113	06-045800		90° ELBOW, "O"-RING TO 37° (16 C5OX-S)	1

TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 5 OF 12)

PLATE NO. B02.204 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



TITLE

SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 5 OF 12)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

PLATE
NO. B02.204

PARTS LIST

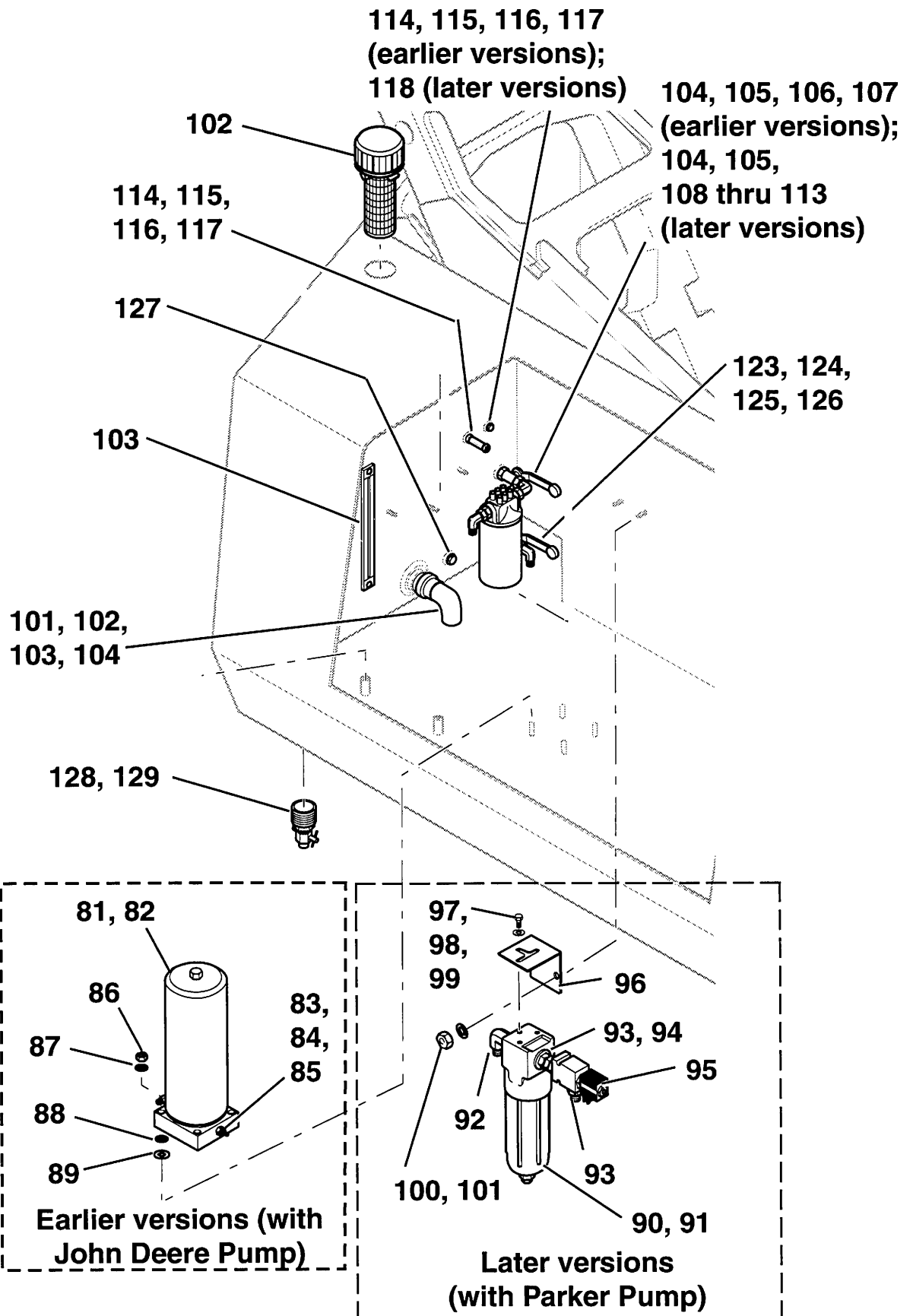
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Fittings for hydraulic tank, 1/4" NPT upper ports:	
			earlier versions:	
114	06-076900		LONG REDUCER/ EXPANDER, PIPE THREAD (1/4 FF-S)	2
115	06-003800		90° ELBOW, MALE 37° TO NPT (6 CTX-S) (with Wisconsin or Deutz engines)	1
	06-000700		CONNECTOR, MALE 37° TO NPT (6 FTX-S) (all others)	1
116	01-032800		VALVE, BALL (Shutoff valve, 1/4" NPT)	2
117	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	2
			later versions:	
114	06-003800		90° ELBOW, MALE 37° TO NPT (6 CTX-S) (with Wisconsin or Deutz engines)	1
	06-000700		CONNECTOR, MALE 37° TO NPT (6 FTX-S) (all others)	1
115	06-079000		CONNECTOR, SWIVEL NUT (6 F65X-S)	1
116	01-020800		VALVE, CHECK	1
117	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	1
118	11-075400		PLUG, SQUARE HEAD (1/4)	1
			Fittings for hydraulic tank, lower 1-1/2" NPT port:	
119	11-071500		REDUCER, BELL (1-3/4" NPT to 1-1/2" NPT)	1
120	01-063000		VALVE, BALL (Shutoff valve, 1-1/2" NPT)	1
121	11-050023		90° STREET ELBOW (1-1/2") (two needed with Ford engine, one on all others)	A.R.
122			CONNECTOR, HOSE	1
	06-191500		Beaded insert (1-1/2" NPT x 1-1/2" I.D.) (earlier versions)	
	06-218400		24 MP-24 MJ (later versions)	1
			Fittings for hydraulic tank, two smaller lower ports:	
123	11-062000		BUSHING, REDUCER (1" to 3/4" NPT)	1
124	11-020018		CLOSE NIPPLE (3/4" NPT, 1-3/8" long)	1
125	01-020600		VALVE, BALL (Shutoff valve, 3/4" NPT)	1
126	06-004900		90° ELBOW, MALE 37° TO NPT (12 CTX-S)	1
127	11-075500		PLUG, SQUARE HEAD (3/4" NPT)	1
			Fittings for hydraulic tank, drain port:	
128	11-062100		BUSHING, REDUCER (2" NPT to 1/2" NPT)	1
129	01-015800		DRAIN COCK (Brass, 1/2" NPT)	1

TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 6 OF 12)

PLATE NO. B02.204 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



TITLE

SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 6 OF 12)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

PLATE
NO. B02.204

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
130	353 8660 354 5480		HOSE KIT, SUPERSTRUCTURE with all except Ford engine with Ford engine	1
131	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	2
132	07-062016		WASHER, FLAT (3/8")	4
133	353 8640		GROUND PANEL ASSEMBLY	1
134	230 8400		BRACKET, GROUND CONTROL	1
135	03-487100		SENSOR, LEVEL (4.5°, 2 second delay)	1
136	03-706000		ALARM, MOVEMENT (dual tone)	1
137	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	1
138	07-003004		CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5)	4
139	07-003005		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	1
140	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	6
141	07-062014		WASHER, FLAT (1/4")	10
142	07-111600		WASHER, EXTERNAL TOOTH (1/4")	2
143	10-061200		CLAMP, LOOP (G-12, 3/4")	2
144	353 8650	C02.201	MANIFOLD ASSEMBLY	1
145	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	2
146	07-062016		WASHER, FLAT (3/8")	6
147	07-050016		NUT, LOCK (3/8"-16, Grade 5)	1
148	232 0080		BRACKET, VALVE MOUNTING	1
149	232 0090		COVER, GROUND CONTROL LEVERS	1
150	07-044014		NUT, ACORN (1/4"-20, low crown, stainless steel)	2
151	07-062014		WASHER, FLAT (1/4")	2
152	07-003089		CAP SCREW, HEX HEAD (1/2"-13 x 2", Grade 5)	1
153	07-062018		WASHER, FLAT (1/2")	1
154	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
155	See Index	C03. - -	PANEL ASSEMBLY, GROUND ELECTRICAL	1
156	07-003004		CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5)	4
157	07-062014		WASHER, FLAT (1/4")	8
158	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	4
159	01-093500		VALVE, SOLENOID (Dump valve)	1
160	01-093501		COIL, SOLENOID VALVE	1
161	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	1
162	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	1
163	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	2
164	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
165	07-062014		WASHER, FLAT (1/4")	4
166	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2

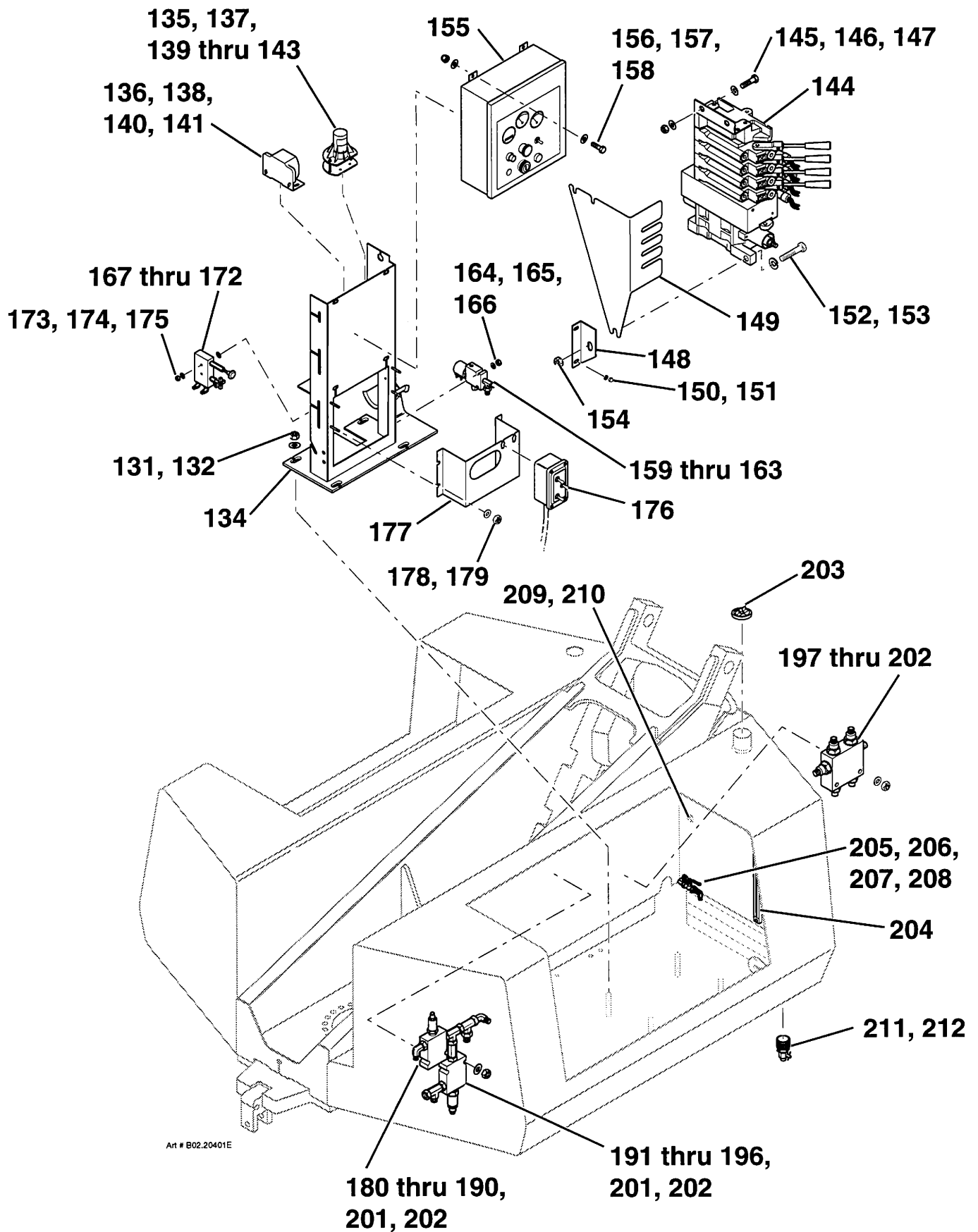
TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 7 OF 12)

PLATE NO. B02.204 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			GROUND PANEL ASSEMBLY (continued)	
167	01-209800		MANIFOLD, BRAKE RELEASE	1
168			BODY, VALVE	1
169	01-209801		VALVE, NEEDLE	1
170			PUMP, HAND	1
171	01-209802		SEAL KIT, HAND PUMP	1
172	06-047000		45° ELBOW, "O"-RING TO 37° (6 V5OX-S)	2
173	07-003030		CAP SCREW, HEX HEAD (5/16"-18 x 2-1/4", Grade 5)	2
174	07-062015		WASHER, FLAT (5/16")	2
175	07-050015		NUT, HEX LOCK (5/16"-18, Grade 5)	2
176	352 9370	C06.06	PENDANT, REMOTE CONTROL	1
177	219 9940		COVER, GROUND CONTROLS	1
178	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	4
179	07-062014		WASHER, FLAT (1/4")	4
180	01-219400		VALVE, DIRECTIONAL (Boom telescope dump valve)	
			(2 way, 2 position, normally closed, pilot operated)	1
181	06-045100		90° ELBOW, "O"-RING TO 37° (10-8 C5OX-S)	1
182	06-044700		90° ELBOW, "O"-RING TO 37° (6-8 C5OX-S)	1
183	06-040900		ADAPTER, "O"-RING TO 37° (12-8 F5OX-S)	1
184	06-054800		RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S)	2
185	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	2
186	06-060900		REDUCER, TUBE END (12-8 TRTX-S)	1
187	06-057800		NUT, TUBE (12 BTX-S)	1
188	353 3670		HOSE ASSEMBLY (20" [51 cm] long)	1
189	353 0470		HOSE ASSEMBLY (16" [41 cm] long)	1
190	350 7665		TUBE ASSEMBLY	1
191	01-215800		VALVE, DIRECTIONAL (Boom telescope regeneration valve)	
			(3 way, 2 position, piloted sequence)	1
192	06-040900		ADAPTER, "O"-RING TO 37° (12-8 F5OX-S)	1
193	06-044800		90° ELBOW, "O"-RING TO 37° (8 C5OX-S)	1
194	06-048600		RUN TEE, MALE "O"-RING TO 37° (8 R5OX-S)	1
195	06-060300		REDUCER, TUBE END (8-6 TRTX-S)	1
196	06-057600		NUT, TUBE (8 BTX-S)	1
197	01-219100		VALVE, DUAL COUNTERBALANCE	
			(pre-set to 2,500 PSI [172 bar] [176 kg/ cm ²])	1
198	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	2
199	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	1
200	06-047000		45° ELBOW, "O"-RING TO 37° (6 V5OX-S)	1
201	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	3
202	07-062014		WASHER, FLAT (1/4")	6
TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 8 OF 12)				
PLATE NO.	B02.204	SIMON AERIALS INC.		PART NO.
REV. 19 FEB., 1997				



TITLE

SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 8 OF 12)

SIMON AERIALS INC.

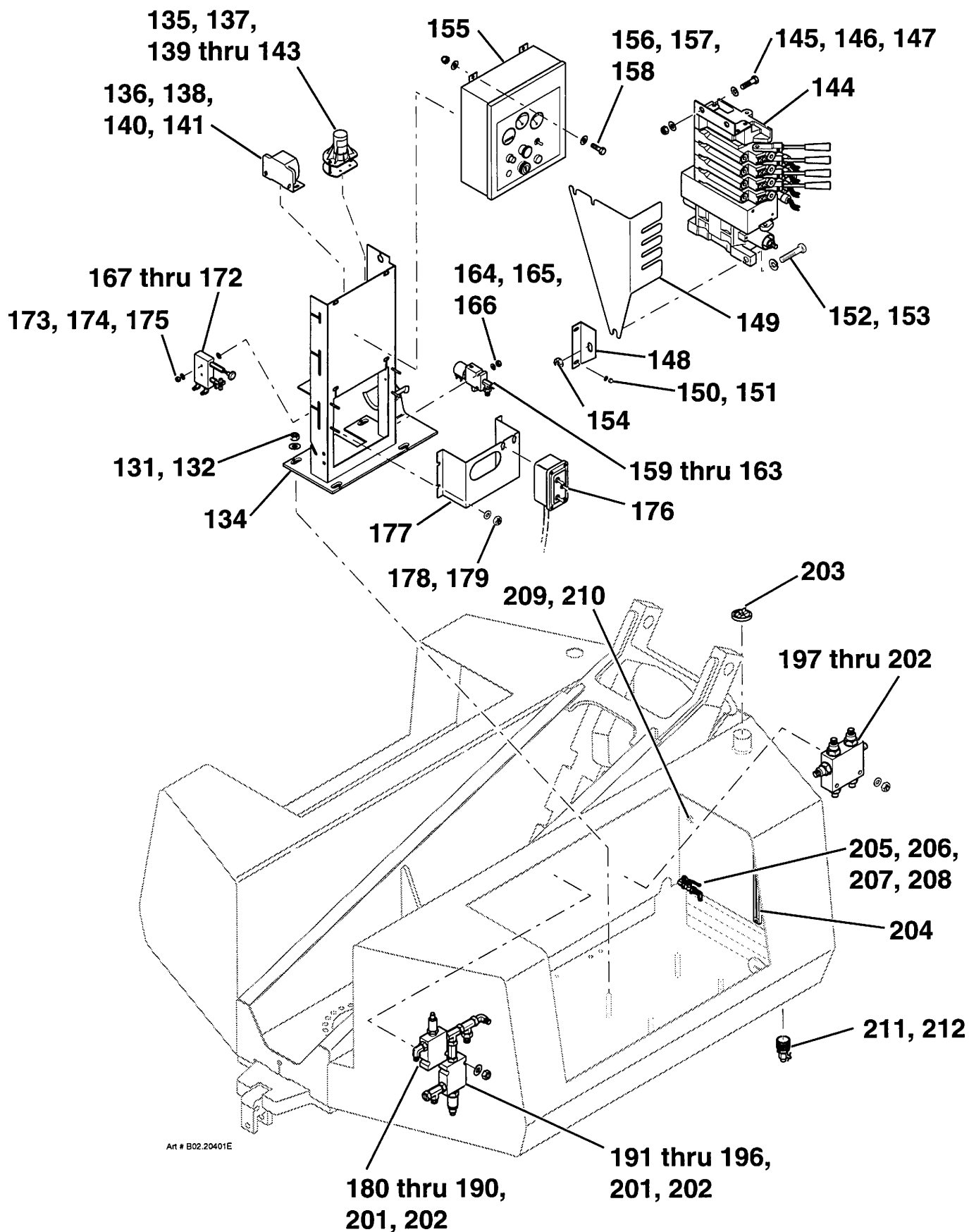
REV. 19 FEB., 1997

PART
NO.

PLATE
NO. B02.204

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PLATE NO. B02.204	SIMON AERIALS INC.	REV. 19 FEB., 1997	PART NO.
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TITLE

SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 9 OF 12)

SIMON AERIALS INC.

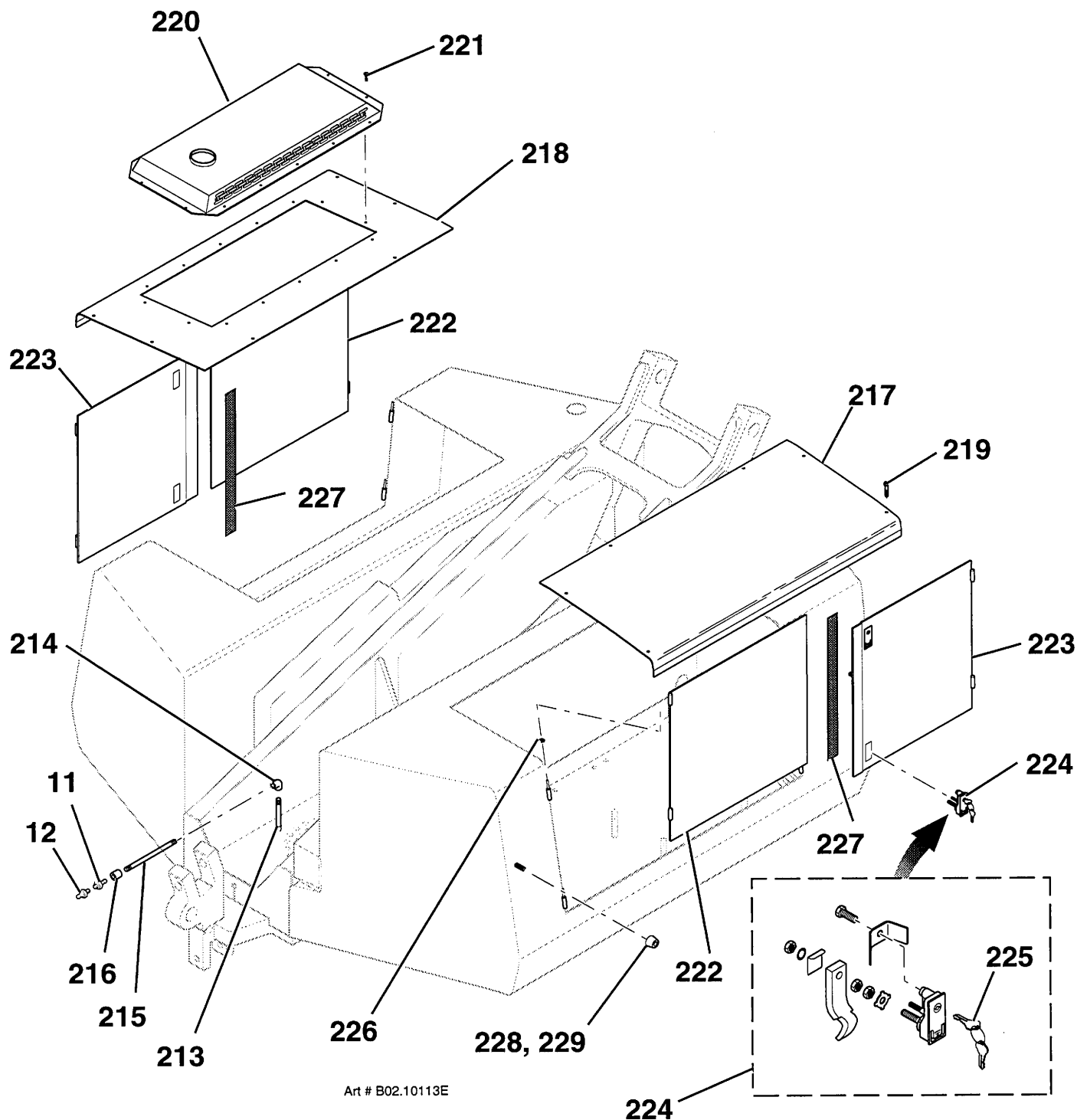
REV. 19 FEB., 1997

PART
NO.

PLATE
NO. B02.204

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PLATE NO. B02.204	SIMON AERIALS INC.	REV. 19 FEB., 1997	PART NO.
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For versions with side-hinged Doors.
For earlier versions with upward-opening Doors, see next page.

TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 10 OF 12)

SIMON AERIALS INC.

REV. 19 FEB., 1997

**PART
NO.**

**PLATE
NO.** B02.204

PARTS LIST

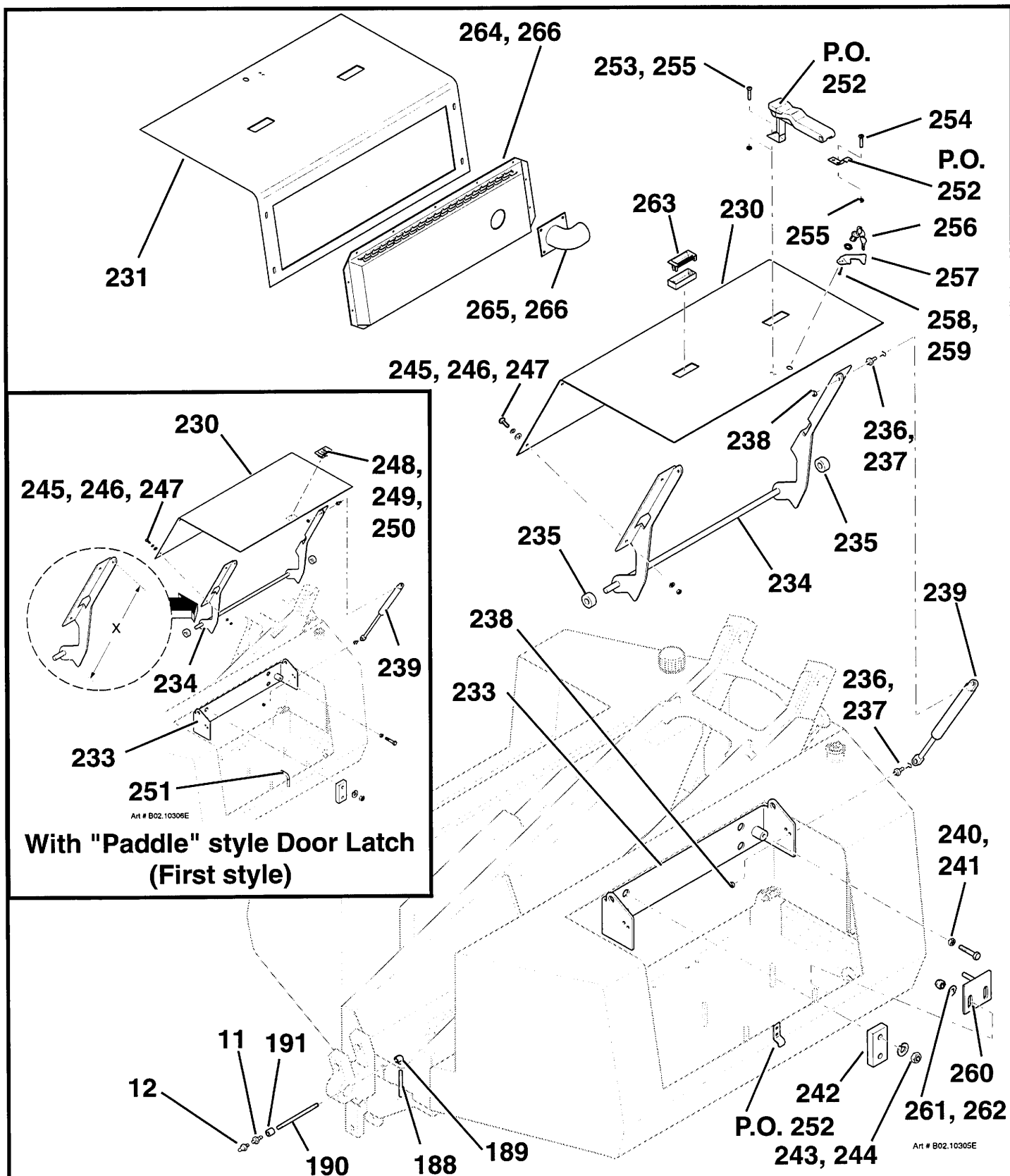
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
230	230 3210 232 3660		DOOR (upward-opening, right, control side) First type (with paddle latch, no key lock) Second type (with draw latch and separate key lock)	1
231	230 3220 232 3670		DOOR (upward-opening, left, engine side) First type (with paddle latch, no key lock) Second type (with draw latch and separate key lock)	1
232	219 6030		HINGE ASSEMBLY, DOOR (for upward-opening design) Earlier style (Obsolete , superceded by later design) (To identify: Dim. "X" on Door Bracket = 18.01" [.457 M]. Gas Spring is mounted with rod end up .) Later style (Supercedes earlier design): (To identify: Dim. "X" on Door Bracket = 17.50" [.444 M]. Gas Spring is mounted with rod end down .)	2
	232 8850 232 8860		Right hand Left hand	1 1
233	219 8470 232 8810		BRACKET, HINGE For earlier style hinge assembly For later style hinge assembly	1
234	219 8500 232 8840		BRACKET, DOOR For earlier style hinge assembly ("X" = 18.01" [.457 M]) For later style hinge assembly ("X" = 17.50" [.444 M])	1
235	08-069900		COLLAR, "CLAMP-TITE" (3/4" I.D., one piece, steel)	2
236	10-138400		STUD, BALL (.39" dia.) First type, used without Safety Clip (For replacement, use later style) Second type, must be used with Safety Clip, below.	4
237	10-225200 10-225300		CLIP, SAFETY (required for second type Ball Stud)	4
238	07-050015		NUT, LOCK (5/16"-18, Grade 5)	4
239	10-138300		SPRING, GAS (Gas cylinder) First type (250 Lb [113 Kg] force, 20.2" [51.2 cm] extended, 12.4" [31.5 cm] retracted) Second type (19" [48.3 cm] extended, 13.3" [33.6 cm] retracted)	2
240	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	1
241	07-047018		NUT, JAM (1/2"-13, Grade 5)	1

TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 11 OF 12)

PLATE NO. B02.204 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



For versions with upward-opening Doors.
For later versions with side-hinged Doors, see previous page.

TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 11 OF 12)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

PLATE
NO. B02.204

PARTS LIST

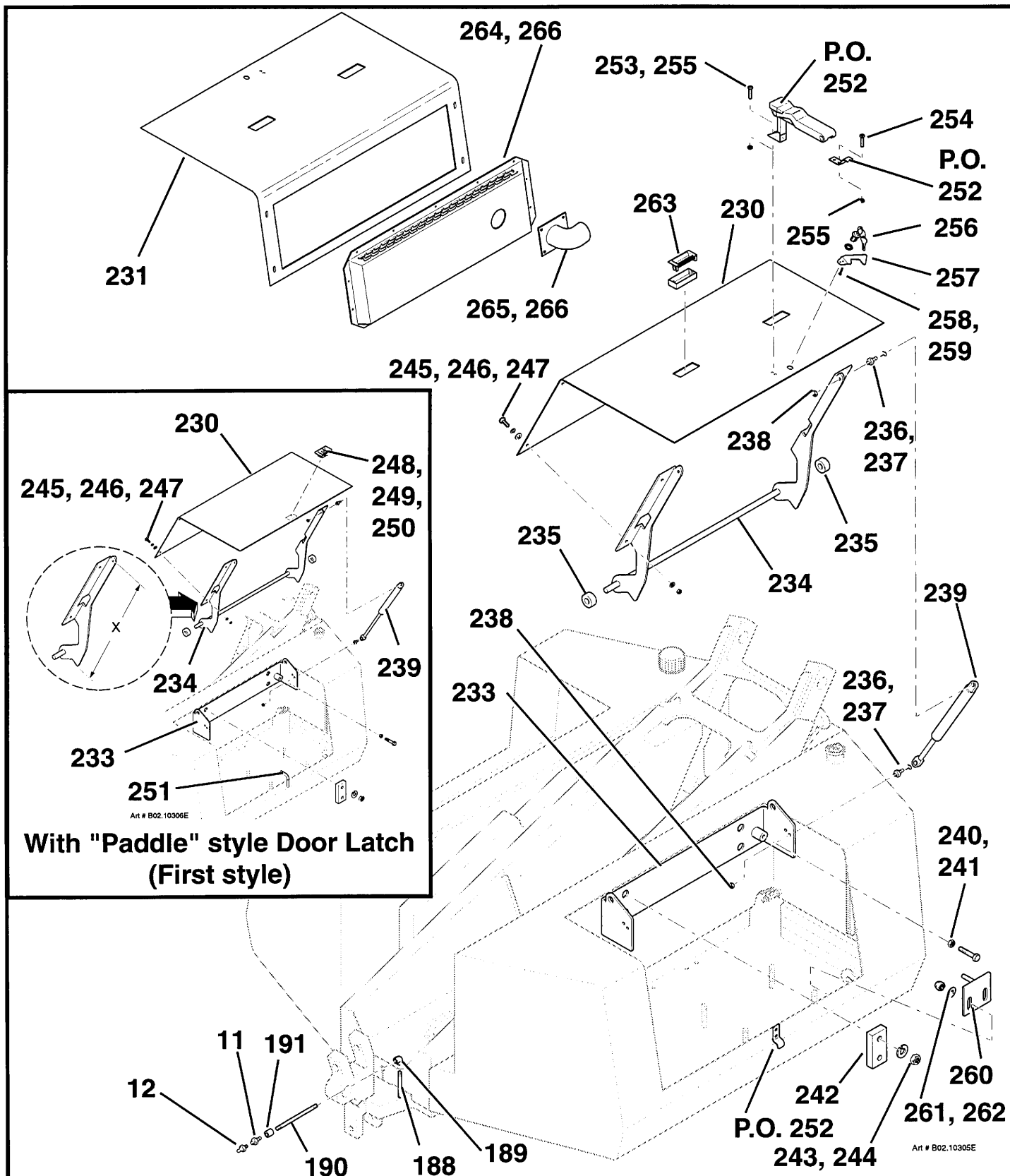
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
242	219 5600		PLATE, DOOR MOUNT (for upward-opening design)	4
243	07-040018		NUT, HEX (1/2"-13, Grade 5)	8
244	07-065018		WASHER, HELICAL LOCK (1/2")	8
245			CAP SCREW, BUTTON HEAD	8
	07-017022		5/16"-18 x 5/8", Grade 5 (for earlier style hinge assembly)	
	07-017025		5/16"-18 x 1", Grade 5 (for later style hinge assembly)	
246	07-062015		WASHER, FLAT (5/16")	8
247	07-065015		WASHER, HELICAL LOCK (5/16")	8
248	230 1540		LATCH, DOOR ("Paddle" style, first type)	2
249	07-096100		CAP SCREW, BUTTON HEAD (#8-32 x 3/4", Stainless)	8
250	07-096200		NUT, LOCK (#8-32, stainless, with nylon insert)	8
251	230 3780		BRACKET, LATCH (for first type latch)	2
252	10-223000		LATCH, DRAW (Rubber, includes latch and hook)	2
253	07-090100		MACHINE SCREW, ROUND HEAD (#10-32 x 3/4", Grade 2)	4
254	07-013414		MACHINE SCREW, ROUND HEAD (#10-32 x 1/2", Grade 2)	4
255	07-050111		NUT, LOCK (#10-32, Grade 2, with nylon insert)	8
256	10-223100		LOCK, DOOR (Key operated. Includes two keys. Includes latch pawl and screws which can be discarded.)	2
257	234 1810		PAWL, KEY LOCK LATCH	2
258	07-112500		MACHINE SCREW, PAN HEAD CROSS RECESS (#4-40 x 3/8", with internal tooth lock washer)	4
259	07-062003		WASHER, FLAT (#4)	4
260	232 9440		BRACKET, KEY LOCK CATCH	2
261	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	4
262	07-062014		WASHER, FLAT (1/4")	8
263	10-222900		HANDLE, POCKET PULL (includes attaching parts)	4
264			PAGODA, ENGINE DOOR	1
	231 3310		with Ford engine	
	231 9690		with Wisconsin engine	
	231 8910		with Deutz engine	
	232 0750		with Isuzu engine	
	Call Simon		with engines other than those listed above	
265	219 9920		OUTLET, ENGINE EXHAUST	1
266	07-029365		SCREW, TEK (#12-14 x 1" self tap, bonded sealing head)	18

TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 12 OF 12)

PLATE NO. B02.204 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



With "Paddle" style Door Latch
(First style)

For versions with upward-opening Doors.
For later versions with side-hinged Doors, see previous page.

TITLE SUPERSTRUCTURE ASSEMBLY, RP 46 (PLATE 12 OF 12)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

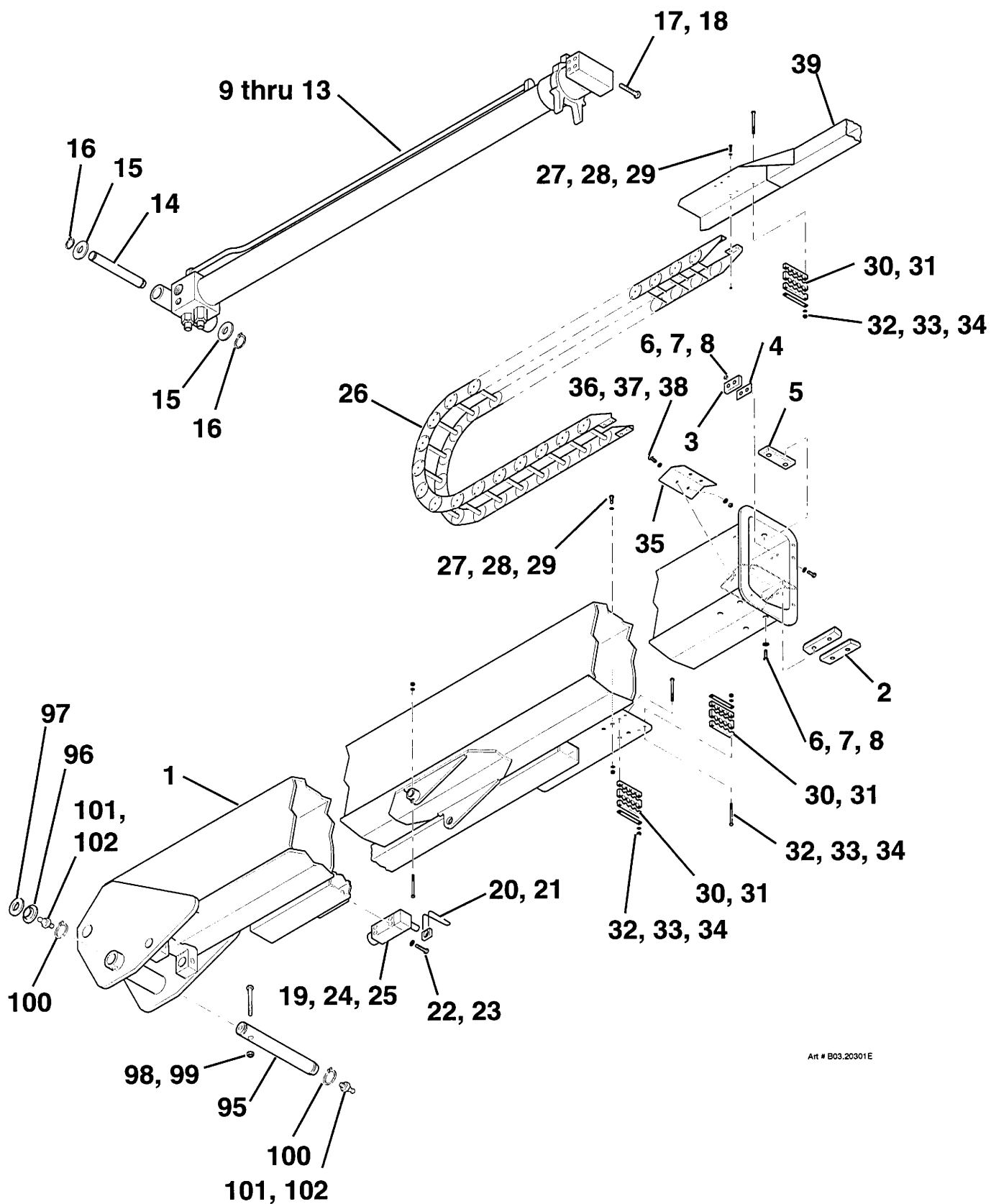
PLATE
NO. B02.204

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	353 8550		BOOM ASSEMBLY, RP 46	1
1	233 5890		BASE BOOM WELDMENT	1
2	218 7750		PAD, WEAR (2" x 6") (Base boom bottom)	2
3	218 7740		PAD, WEAR (2" x 4") (Base boom side)	4
4	No Part #		SHIM, SIDE WEAR PAD	A.R.
5	218 7760		PAD, WEAR (2" x 4-3/4") (Base boom top)	1
6	07-003084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 5)	14
7	07-065018		WASHER, HELICAL LOCK (1/2")	14
8	07-047018		NUT, JAM (1/2"-13, Grade 5)	14
9	04-054100	D19.101	CYLINDER, TELESCOPE	1
10	06-039300		ADAPTER, "O"-RING TO 37° (4 F5OX-S)	1
11	06-051300		90° ELBOW, SWIVEL NUT (4 C6X-S)	1
12	06-044800		90° ELBOW, "O"-RING TO 37° (8 C5OX-S)	1
13	06-045100		90° ELBOW, "O"-RING TO 37° (10-8 C5OX-S)	1
14	231 3570		PIN, TELESCOPE CYLINDER (1-1/4" x 9-15/16") (replaces 219 2530)	1
15	07-120100		WASHER, SPACER	2
16	08-040700		RING, RETAINING (1-1/4")	2
17	07-003131		CAP SCREW, HEX HEAD (5/8"-11 x 2-1/2", Grade 5)	8
18	07-065021		WASHER, HELICAL LOCK (5/8")	8
19	03-493700		SWITCH, LIMIT (Side rotary, 1 normally open, 1 normally closed contact)	1
20	212 9540		LEVER BLOCK, LIMIT SWITCH	1
21	03-494100		ARM, LIMIT SWITCH (bent wire)	1
22	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	2
23	07-065011		WASHER, HELICAL LOCK (#10)	2
24	03-045500		GRIP, CORD (1/2", with 5/16" to 3/8" seal)	1
25	03-055500		NUT, CONDUIT LOCK (1/2")	1

TITLE	BOOM ASSEMBLY, RP 46 (PLATE 1 OF 5, BASE BOOM)
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PLATE NO. B03.203	SIMON AERIALS INC. REV. 19 FEB., 1997	PART NO. 353 8550
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PART NO.	353 8550
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Art # B03.20301E

TITLE BOOM ASSEMBLY, RP 46 (PLATE 1 OF 5, BASE BOOM)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART NO. 353 8550

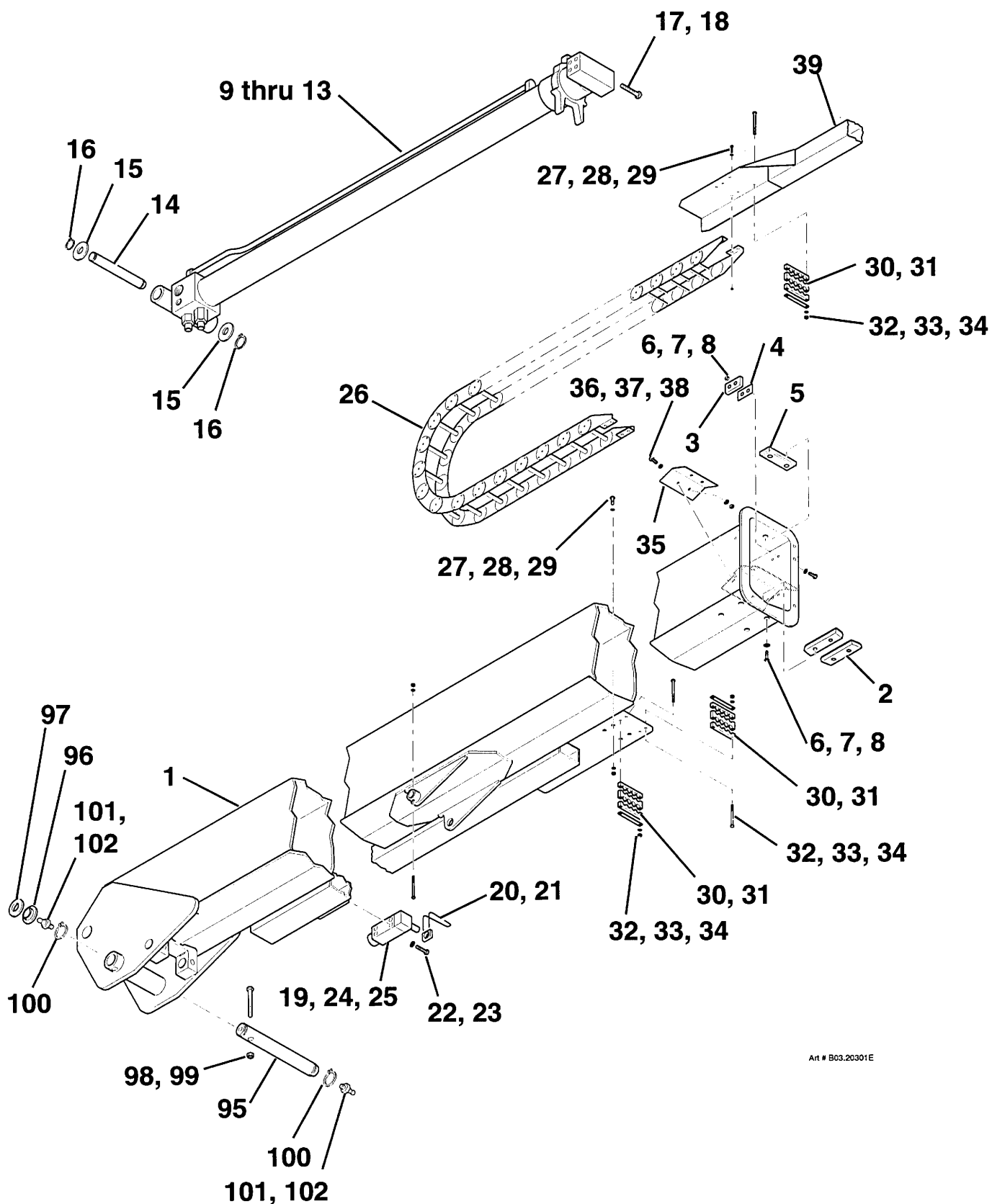
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SIMON AERIALS INC.

REV. 19 FEB., 1997

PART NO. 353 8550



Art # B03.20301E

TITLE BOOM ASSEMBLY, RP 46 (PLATE 2 OF 5, BASE BOOM)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART NO. 353 8550

PLATE NO. B03.203

PARTS LIST

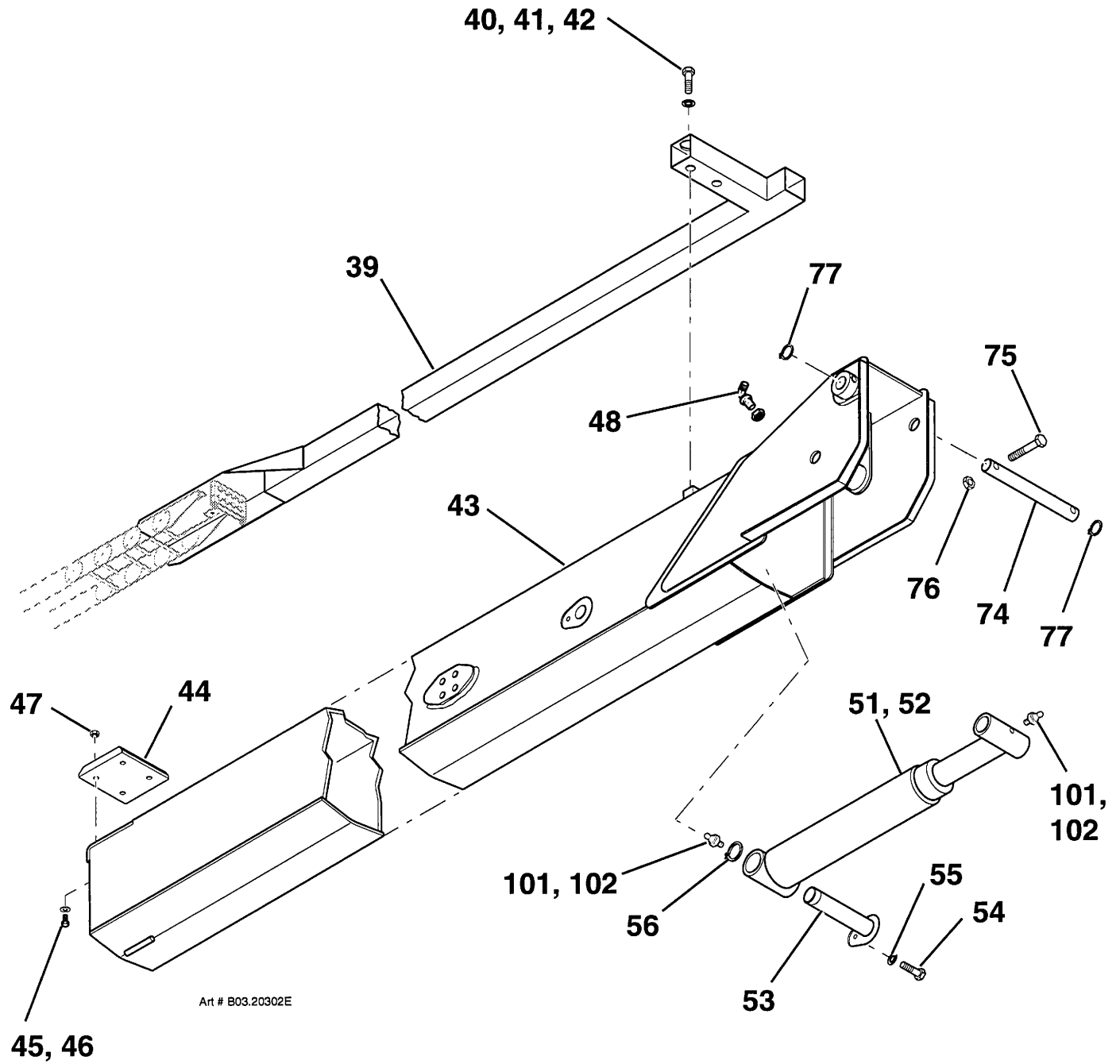
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
43	233 6880		TIP BOOM WELDMENT	1
44	218 9930		PAD, WEAR (6" x 7-5/8") (Tip boom, top, front)	1
45	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	4
46	07-065018		WASHER, HELICAL LOCK (1/2")	4
47	07-047018		NUT, JAM (1/2"-13, Grade 5)	4
48	06-033300		90° ELBOW, BULKHEAD UNION (4 WETX-WLN-S)	2
49	03-405000		TUBING, SHRINK (Black, 1/2") (Bulk item, order as needed. 4-1/2 Ft [1.37 M] needed here)	A.R.
50	03-473100		TUBING, SHRINK (Black, 1") (Bulk item, order as needed. 2 Ft [.61 M] needed here)	A.R.
51	04-039100	D25.201	CYLINDER, JIB BOOM ARTICULATION	1
52	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C5OX-S)	2
53	233 5980		PIN, ARTICULATION CYLINDER (Base end)	1
54	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	1
55	07-065016		WASHER, FLAT (3/8")	1
56	08-040700		RING, RETAINING (1-1/4")	1
57	233 4820		PIN, ARTICULATION CYLINDER (Rod end) (1-1/4" x 6-3/4") (replaces 232 1910)	1
58	07-003052		CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5)	4
59	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
60	03-085900		CABLE, ELECTRICAL (SJO, 3 conductor, #12 AWG) (Bulk item, 76 Ft [23.2 M] required this application)	A.R.
	03-085200		CABLE, ELECTRICAL (SJO, 2 conductor, #16 AWG) (Bulk item, 12 Ft [3.66 M] required this application)	A.R.
	03-488800		CABLE, ELECTRICAL (Type F 569, 19 conductor, #16 AWG) (Bulk item, 184 Ft [56.1 M] required this application)	A.R.
61	10-150900		SLEEVE (Plastic coil) (Bulk item, order as needed. 40 Ft [12.2 M] needed this application)	A.R.
62	353 8560		HOSE KIT, RP 46 BOOM	1
63	353 8730		HOSE ASSEMBLY (#4, 2.54 Ft [.77 M] long)	1
64	353 8740		HOSE ASSEMBLY (#4, 1.68 Ft [.51 M] long)	1
65	10-113200		PROTECTOR, HOSE (Neoprene, 6" x 9" x 1/8")	9
66	10-060600		CLAMP, LOOP (3/8")	3
67	10-061200		CLAMP, LOOP (3/4")	2
68	09-015000		CLAMP, WORM (2-1/2")	16
69	207 3471		CLAMP, HOSE (3-1/2" dia.)	1
70	230 1000		SPACER, HOSE CLAMP	1
71	03-064700		TIE, CABLE (14.5" [368 mm] long)	10

TITLE BOOM ASSEMBLY, RP 46 (PLATE 3 OF 5, TIP BOOM)

PLATE NO. B03.203 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

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TITLE

BOOM ASSEMBLY, RP 46 (PLATE 3 OF 5, TIP BOOM)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

353 8550

PLATE
NO.

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PARTS LIST

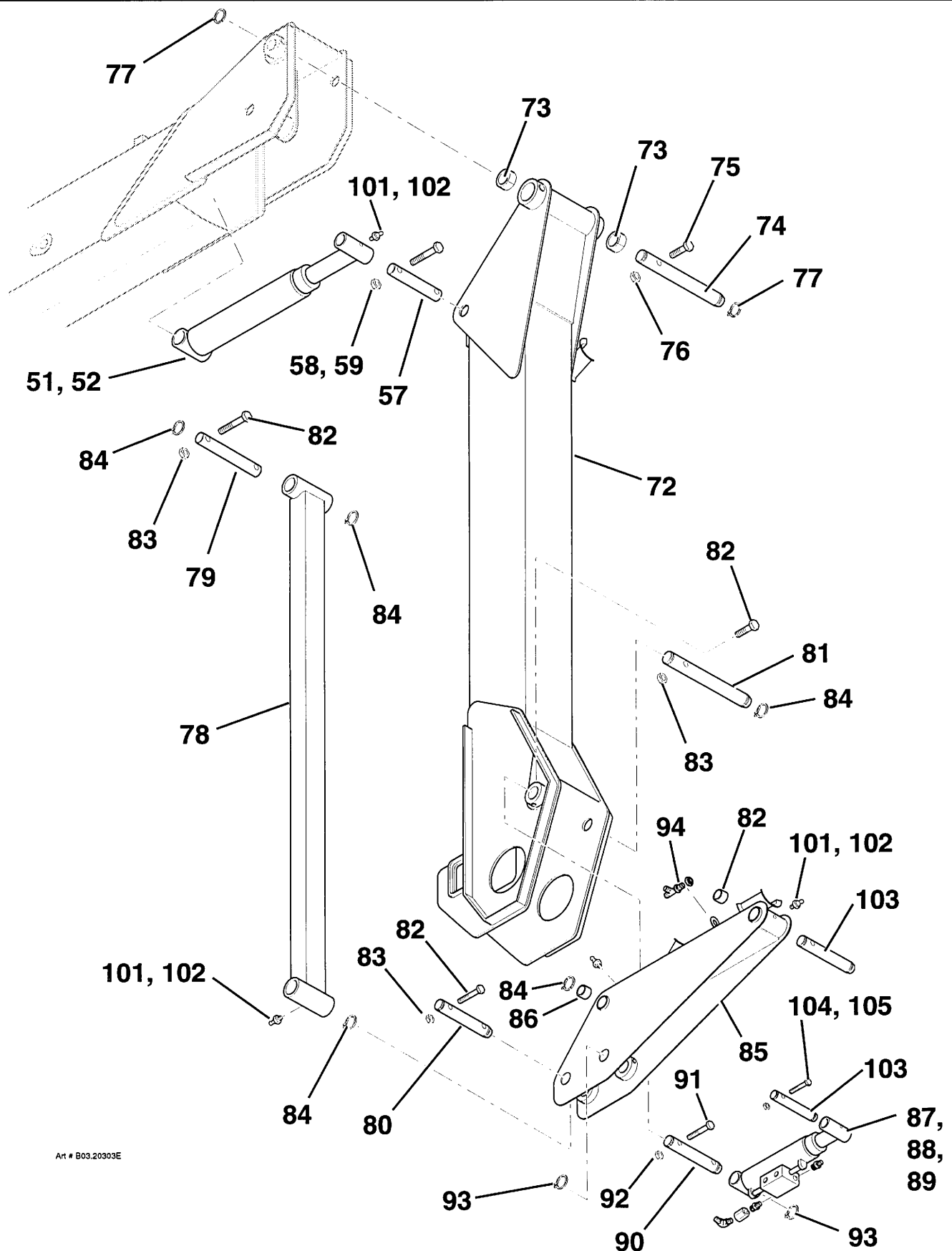
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
72	233 6790 231 9340		JIB BOOM WELDMENT Current style (hoses down right side of jib boom, as shown) Earlier style (hoses run down left side of jib boom)	1
73	08-002000		BEARING, FLANGED (1-1/2" I.D., 1-3/4" O.D., 1-1/2" long, 2" flange O.D.)	2
74			PIN, JIB BOOM (Upper end)	1
	233 4810 233 7240		Current version (1-1/2" x 12-1/4") (replaces 232 2120) Earlier version (1-1/2" x 10-5/16") (replaces 233 7010)	
75	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	2
76	07-058400		NUT, LOCK (1/2"-13, Grade 8)	2
77	08-040900		RING, RETAINING (1-1/2")	2
78	232 0570		PARALLEL ARM WELDMENT	1
79	232 2040		PIN, PARALLEL ARM (Upper end) (1-1/4" x 5-1/8") Note: holes on pin are 4-1/4" (108 mm) apart	1
80	232 2060		PIN, PARALLEL ARM (Lower end) (1-1/4" x 5-1/8") Note: holes on pin are 3-13/16" (97 mm) apart	1
81	233 4800		PIN, JIB BOOM (Lower end) (1-1/4" x 8-13/16") (replaces 232 1920)	1
82	07-003052		CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5)	5
83	07-050016		NUT, LOCK (3/8"-16, Grade 5)	5
84	08-040700		RING, RETAINING (1-1/4")	6
85	233 6780 232 6750		LOWER LEVELING ARM WELDMENT Current style (hoses down right side of jib boom, as shown) Earlier style (hoses run down left side of jib boom)	1
86	08-002200		BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" flange, 1-1/2" long)	4
87	04-039000	D20.201	CYLINDER, SLAVE LEVEL	1
88	06-039300		ADAPTER, "O"-RING TO 37° (4 F5OX-S)	2
89	06-051300		90° ELBOW, SWIVEL NUT (4 C6X-S)	1
90	232 2060		PIN, SLAVE CYLINDER (1-1/4" x 5-1/8") (Base end)	1
91	07-003052		CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5)	1
92	07-050016		NUT, LOCK (3/8"-16, Grade 5)	1
93	08-040700		RING, RETAINING (1-1/4")	2
94	06-036300		TEE, BULKHEAD (4 WJJTX-S)	2

TITLE BOOM ASSEMBLY, RP 46 (PLATE 4 OF 5, JIB BOOM)

PLATE NO. B03.203 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO. 353 8550



TITLE

BOOM ASSEMBLY, RP 46 (PLATE 4 OF 5, JIB BOOM)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

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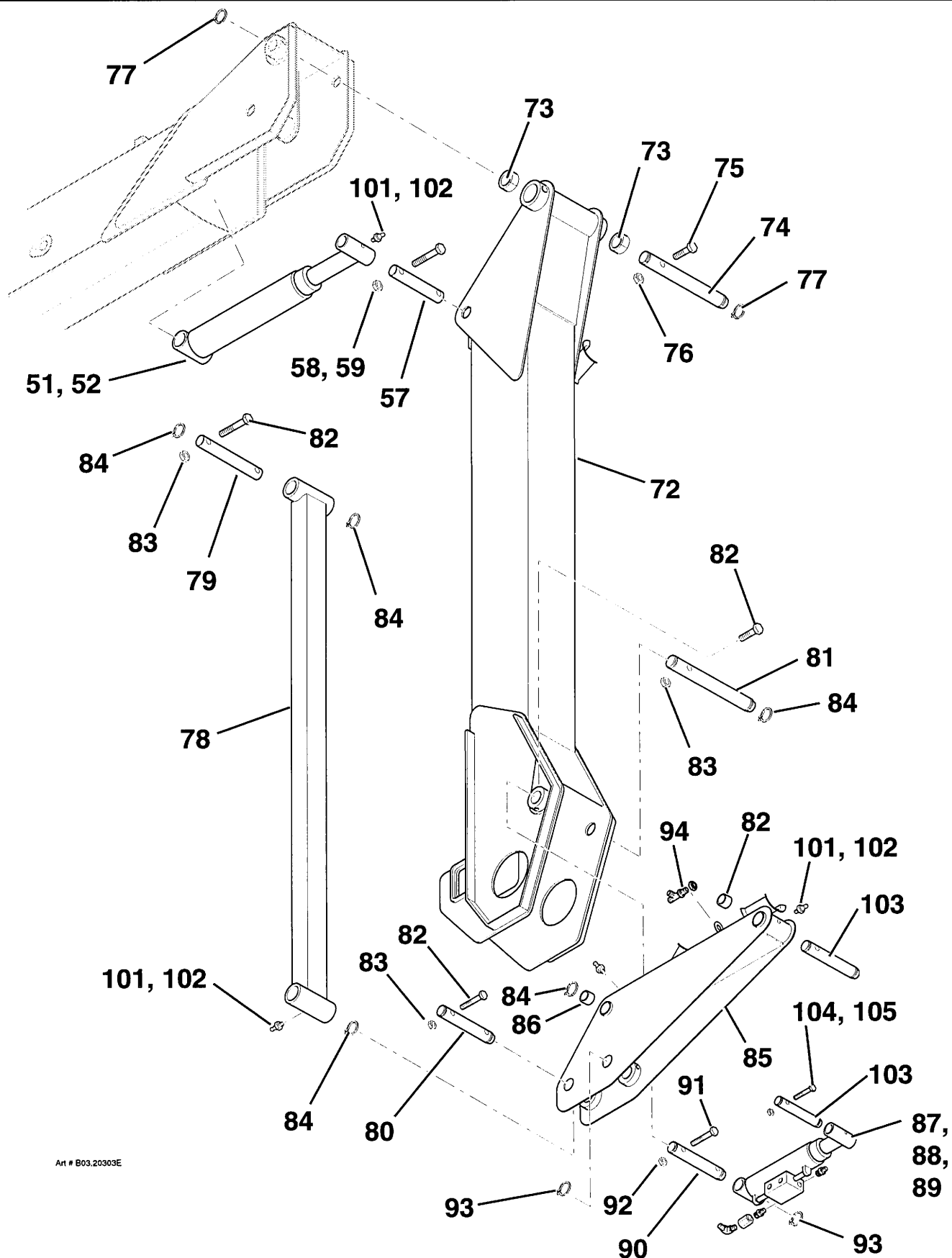
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BOOM ASSEMBLY, RP 46 (PLATE 5 OF 5)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART NO. 353 8550



Art # B03.20303E

TITLE

BOOM ASSEMBLY, RP 46 (PLATE 5 OF 5)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

353 8550

PLATE
NO.

B03.203

PARTS LIST

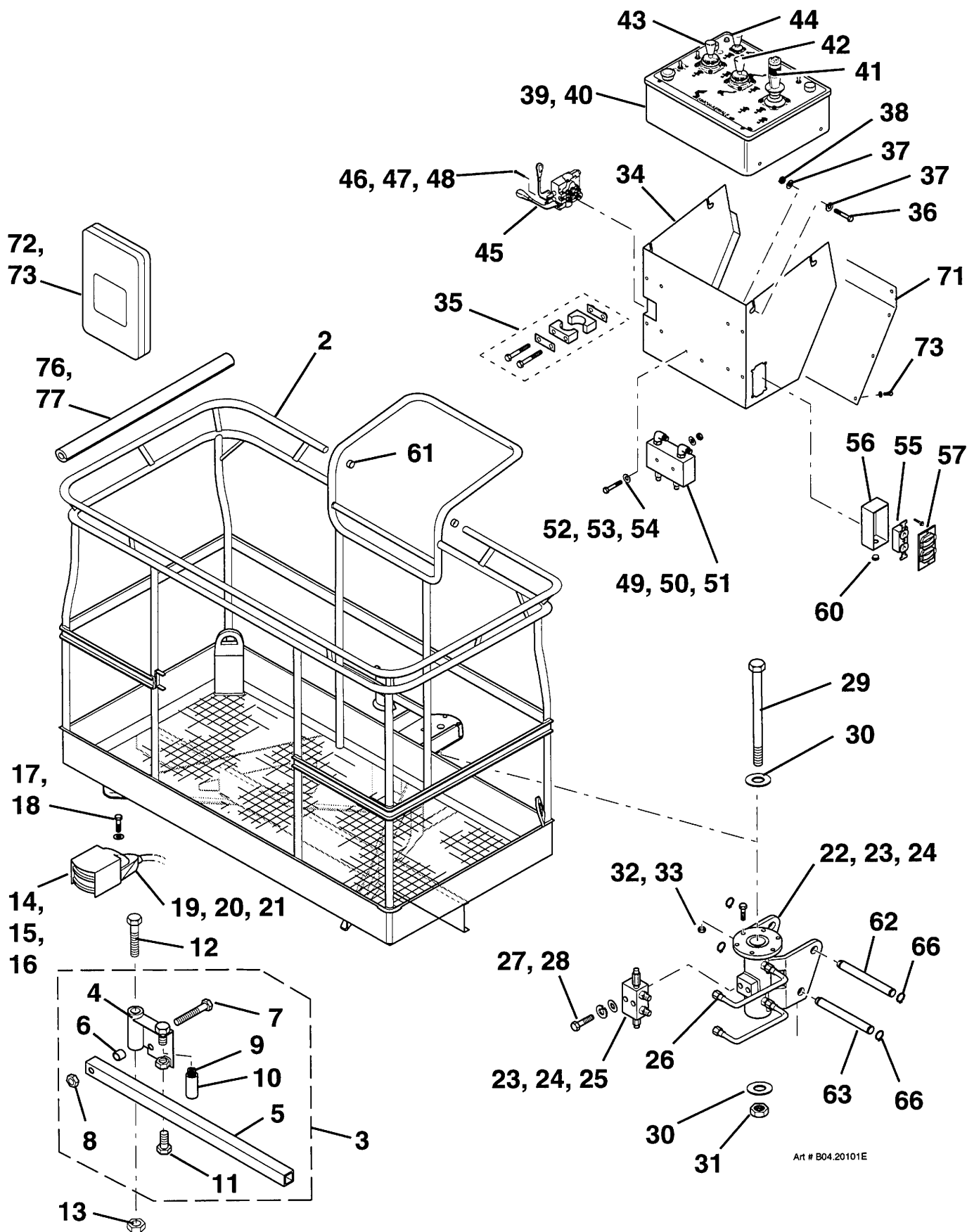
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	354 5990 353 6050		PLATFORM GROUP For RP 46 "Reach Plus" For RP 66 "Reach Plus"	1
1	354 6000		PLATFORM ASSEMBLY For RP 46 "Reach Plus"	1
	353 6060		For RP 66 "Reach Plus"	
2	231 9380		PLATFORM WELDMENT (30" x 60" [.76 M x 1.52 M])	1
3	351 4160		BAR ASSEMBLY, LATCH	1
4	204 1724		PIVOT, DOOR	1
5	207 6577		BAR, LATCH	1
6	204 1649		SPACER, LATCH BAR PIVOT	1
7	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	1
8	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	1
9	08-010100		SPRING AND TUBE ASSEMBLY	1
10	210 8380		SPACER	1
11	07-003043		CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5)	1
12	07-003096		CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5)	1
13	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
14	03-021300		SWITCH ASSEMBLY, FOOT (Single pole)	1
15	03-021301		SWITCH (Single pole, double throw)	1
16	03-021302		COVER, SWITCH (Guard type, with latch)	1
17	07-003004		CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5)	3
18	07-065014		WASHER, HELICAL LOCK (1/4")	3
19	03-045000		REDUCER (3/4" NPT to 1/2" NPT)	1
20	03-063300		GRIP, CORD (1/2", with .31" to .38" seal)	1
21	03-085700		CABLE, ELECTRICAL (SJO, 4 conductor, #16 AWG) (Bulk item, 6 Ft [1.8 M] required this application)	A.R.
22	02-042700	D24.201	ACTUATOR, ROTARY	1
23	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F5OX-S)	2
24	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	4
25	01-202000		VALVE, CROSSOVER RELIEF (1200 psi)	1
26	350 7654		TUBE ASSEMBLY (3/8")	2
27	07-003053		CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5)	2
28	07-065016		WASHER, HELICAL LOCK (3/8")	2
29	07-111300		CAP SCREW, HEX HEAD (1"-8 x 11", Grade 5)	1
30	07-060024		WASHER, FLAT (1" SAE)	2
31	07-090011		NUT, LOCK (1"-8, Grade 8)	1
32	07-004087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 8)	6
33	07-061018		WASHER, FLAT (1/2" SAE, hardened)	6

TITLE PLATFORM ASSEMBLY, RP 46, RP 66 (PLATE 1 OF 3)

PLATE NO. B04.201 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



Art # B04.20101E

TITLE PLATFORM ASSEMBLY, RP 46, RP 66 (PLATE 1 OF 3)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

PLATE
NO. B04.201

PARTS LIST

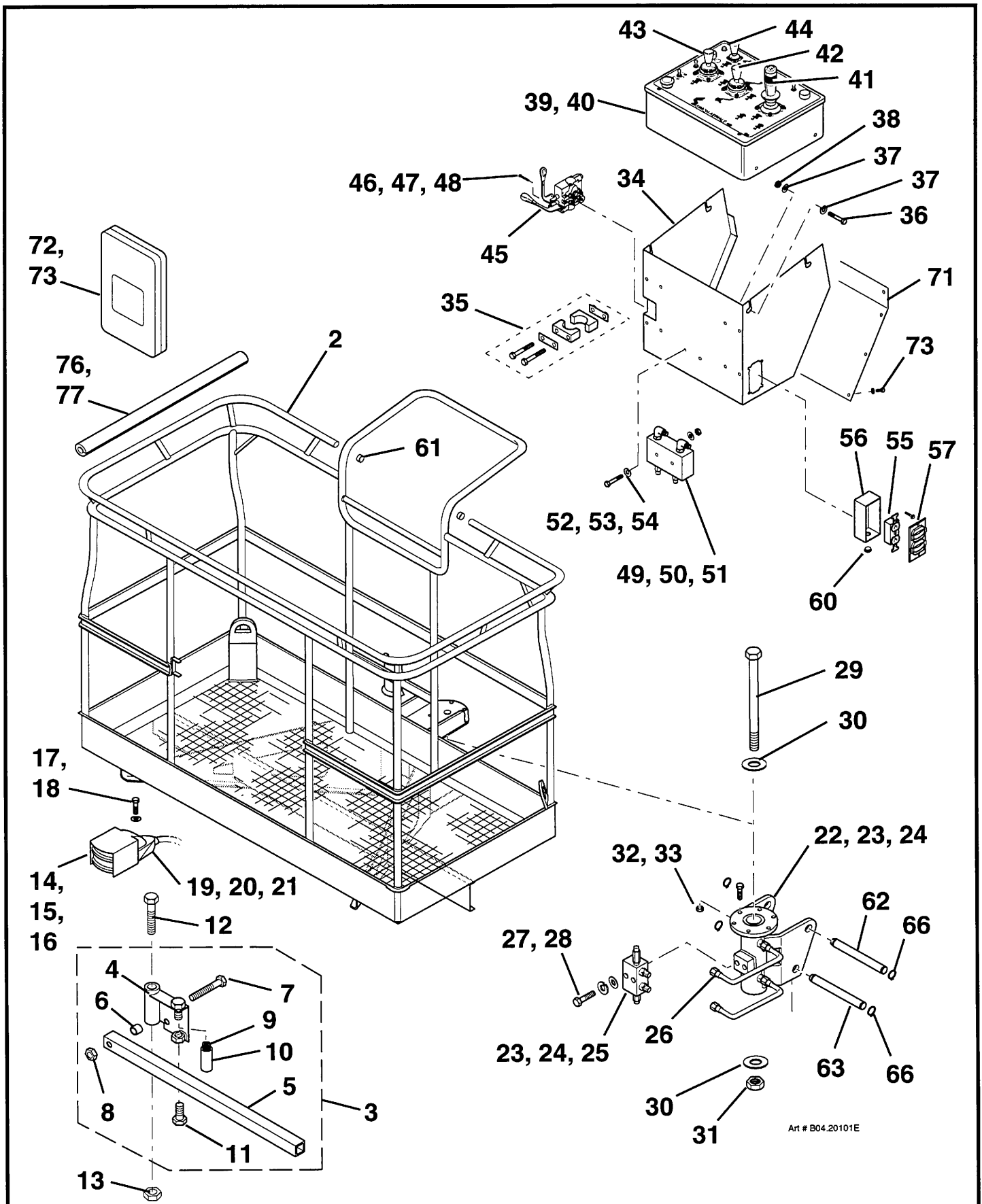
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
34	231 4460		BRACKET, CONSOLE MOUNTING	1
35	10-069600		CLAMP, TUBE (1-1/4" O.D.)	4
36	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
37	07-062016		WASHER, FLAT (7/16")	8
38	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	4
39	See Plate . .	C08.201	PLATFORM CONSOLE ASSEMBLY	1
40	231 9740		BOX ASSEMBLY, PLATFORM ELECTRICAL	1
41	See Plate . .	E01.16	CONTROLLER (Drive/ Steer)	1
42	03-491100	E01.10	CONTROLLER (Superstructure Swing; Boom up/ down)	1
43	See Plate . .	E01.17	CONTROLLER (Boom telescope)	1
44	03-704700	E01.15	CONTROLLER, MINI (Jib boom)	1
45	01-207100	D14.04	VALVE, PLATFORM LEVEL AND ROTATE	1
46	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
47	07-060014		WASHER, FLAT (1/4" SAE)	2
48	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
49	01-001900		VALVE, CHECK (Pilot operated)	1
50	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F5OX-S)	2
51	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C5OX-S)	2
52	07-004047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 8)	2
53	07-062016		WASHER, FLAT (7/16")	4
54	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	2
55			RECEPTACLE, ELECTRICAL CONVENIENCE Duplex, 20 Amp, 110 Volt AC, Self-grounding (standard)	1
	03-067000		Single, 20 Amp, 220 Volt AC (available)	
56	03-711300		BOX, ELECTRICAL RECEPTACLE (Weatherproof)	1
57	03-062100		COVER, ELECTRICAL RECEPTACLE (Weatherproof)	1
	03-062200		For standard 110 Volt Duplex outlet	
	03-711400		For optional single 220 Volt outlet	
58	07-011334		MACHINE SCREW, ROUND HEAD (#6-32 x 3/4", Grade 5)	4
59	07-062007		WASHER, FLAT (#6)	4
60	03-042000		CONNECTOR, CABLE (2 screw, 3/8")	1
61	11-203300		CAP, END (Caplug, 1-1/4" I.D.)	2

TITLE PLATFORM ASSEMBLY, RP 46, RP 66 (PLATE 2 OF 3)

PLATE NO. B04.201 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



Art # B04.20101E

TITLE

PLATFORM ASSEMBLY, RP 46, RP 66 (PLATE 2 OF 3)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
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PLATE
NO.

B04.201

PARTS LIST

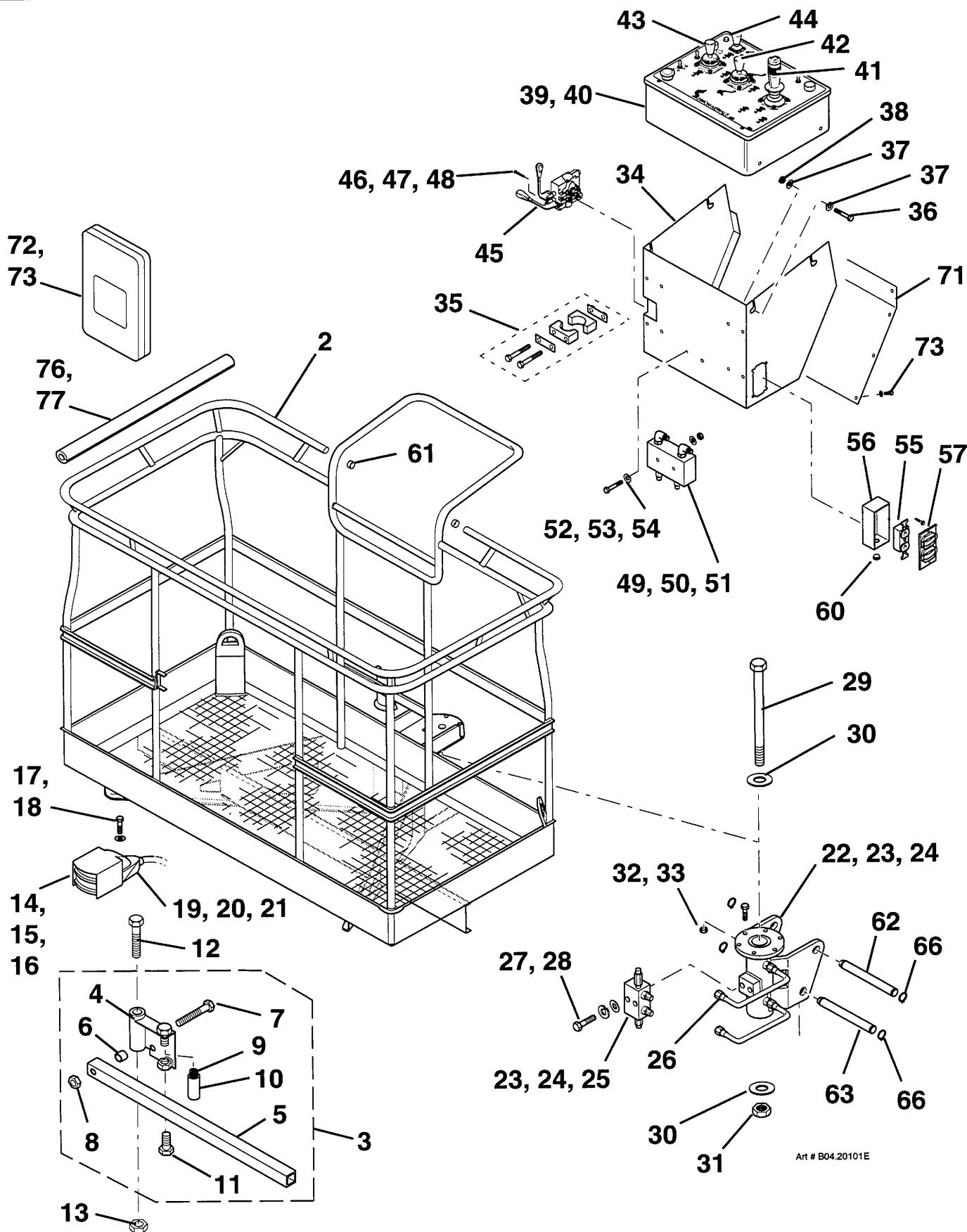
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items are not part of the Platform Assembly , but are included in the Platform Group :	
62	232 2070		PIN, PLATFORM PIVOT (1-1/4" x 10-1/8")	1
63	232 2070		PIN, SLAVE CYLINDER (1-1/4" x 10-1/8") (Rod end)	1
64	07-003052		SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5)	2
65	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	2
66	08-040700		RING, RETAINING (External, 1-1/4")	4
67	205 4670		CLAMP, HOSE (Two hole, #4)	1
68	07-050014		NUT, LOCK (1/4"-20, Grade 5)	1
69	07-062014		WASHER, FLAT (1/4")	1
70	10-150900		SLEEVE, PLASTIC COIL (Bulk item, order as needed. 10 Ft [3.05 M] needed in this application.)	A.R.
			The following are not included in the Platform Group:	
71	233 3750		COVER, PLATFORM	1
72	11-085200		BOX, TECHNICAL MANUAL STORAGE	1
73	07-029365		SCREW, HEX WASHER HEAD (#12 x 1", Self drilling, with rubber seal)	11
74	03-066400		TIE, CABLE (20" [51 mm] long)	2
75	10-113000		PROTECTOR, HOSE (Neoprene, 8" x 12" x 1/8" thick)	1
76	10-063200		TUBING, FOAM INSULATION (option) (1-1/8" [29 mm] I.D., 1" [25.4 mm] wall)	A.R.
77	10-089500		TAPE, MARKING (to wrap optional foam tubing) (Yellow, 2" [51 mm] wide x 36 Yd. [32.9 M] long roll)	A.R.
78	03-038800		LAMP, CONTROL PANEL (hooded) (option)	2
79	03-418600		BULB, PANEL LAMP (12 Volt, #68)	2

TITLE PLATFORM ASSEMBLY, RP 46, RP 66 (PLATE 3 OF 3)

PLATE NO. B04.201 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



TITLE

PLATFORM ASSEMBLY, RP 46, RP 66 (PLATE 3 OF 3)

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

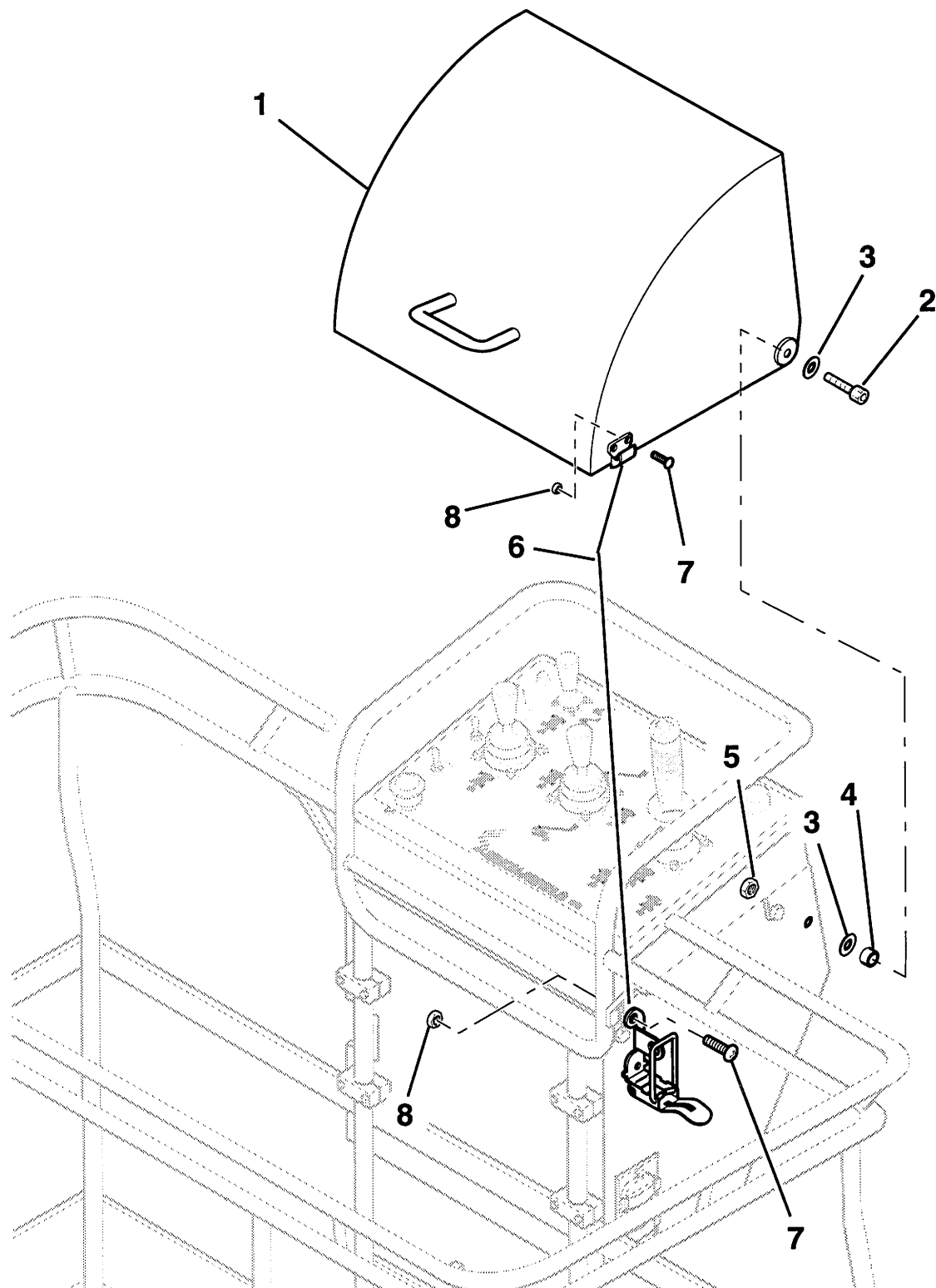
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B04.299

REV. 27 OCT., 1994

2326440



Art # B04.29901E

TITLE PLATFORM CONSOLE COVER ASSEMBLY, MP/ RP SERIES

SIMON AERIALS INC.

REV. 27 OCT., 1994

PART NO. 2326440

PLATE NO. B04.299

PARTS LIST

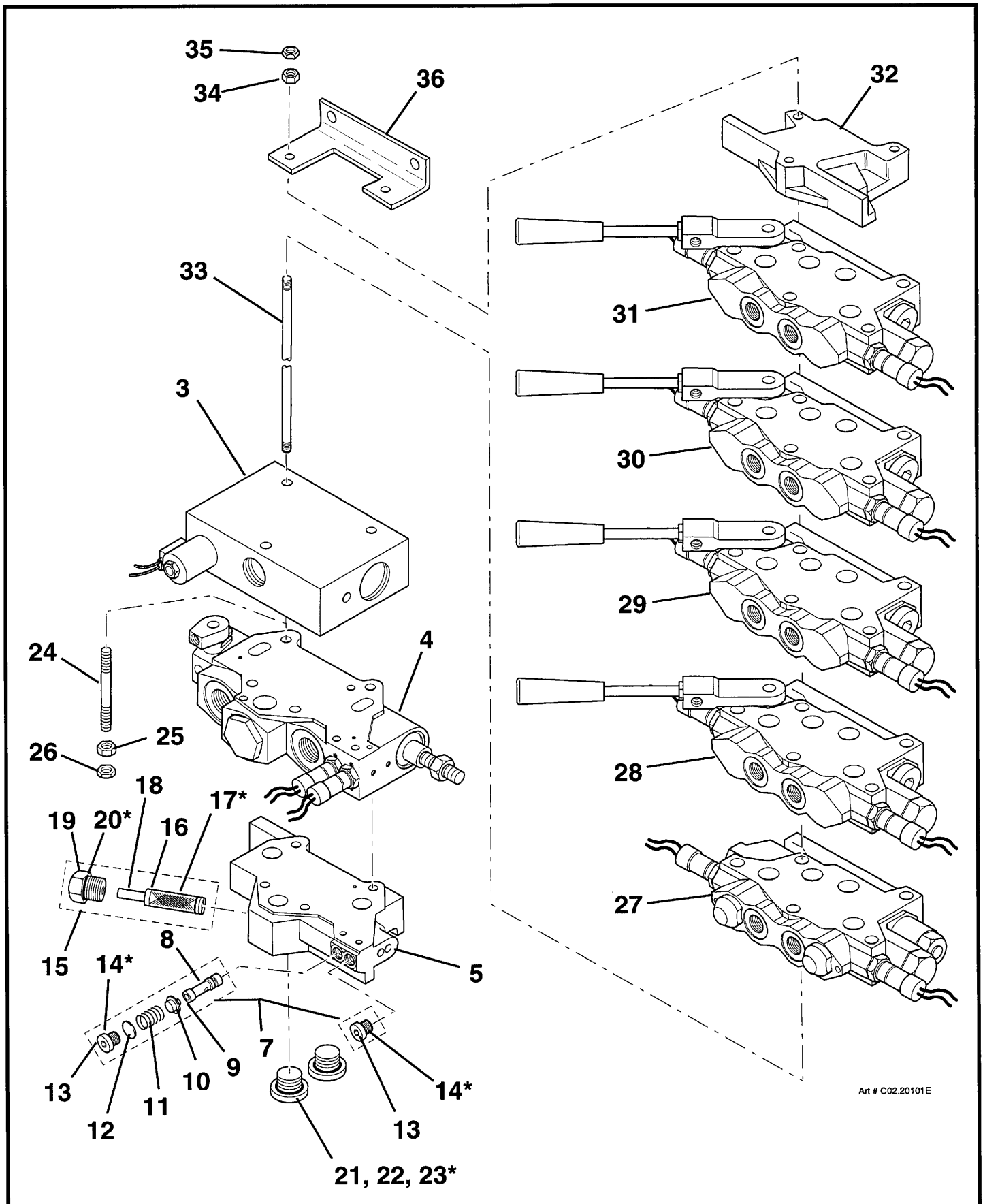
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	353 8650 353 6090		GROUND VALVE BANK ASSEMBLY For Model RP 46 For Model RP 66	1
2	01-234500		GROUND VALVE BANK For Model RP 46 (nameplate is stamped "VAC 5710-0004-003")	1
	01-231200		For Model RP 66 (nameplate is stamped "VAC 5710-0004-001")	
3			MANIFOLD, ADAPTER	1
4	See plate . .	D13.06	VALVE SEGMENT, DRIVE CONTROL	1
5	Call Simon		INLET, LOAD SENSING	1
6	Call Simon		SEAL KIT, INLET (includes all items with asterisk*)	1
7	Call Simon		PILOT REDUCING KIT	1
8			SPOOL, PILOT REDUCING	1
9			BALL	1
10			GUIDE, SPRING	1
11			SPRING	1
12			SHIM	1
13			PLUG, SOCKET	2
14		*	"O"-RING	2
15	Call Simon		INLET FILTER KIT	1
16			FILTER	1
17		*	"O"-RING	1
18			TUBE, FILTER EXTENSION	1
19			PLUG, SOCKET	1
20		*	"O"-RING	1
21	Call Simon		PLUG, SAE PORT	2
22			PLUG	1
23		*	"O"-RING	1
24			ROD, TIE	4
25			NUT, HEX	4
26			NUT, HEX JAM	4
27	See plate . .	D13.08	VALVE SEGMENT, STEER CONTROL	1
28	See plate . .	D13.09	VALVE SEGMENT, JIB BOOM RAISE/ LOWER	1
29	See plate . .	D13.07	VALVE SEGMENT, BOOM TELESCOPE	1
30	See plate . .	D13.09	VALVE SEGMENT, MAIN BOOM RAISE/ LOWER	1
31	See plate . .	D13.10	VALVE SEGMENT, SWING CONTROL	1
32	01-231201		PLATE, STACKING	1
33			ROD, TIE	3
34			NUT, HEX	3
35			NUT, HEX JAM	3
36	Call Simon		BRACKET, VALVE BANK MOUNTING	1

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

PLATE NO. C02.201 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



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

SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

PLATE
NO. C02.201

PARTS LIST

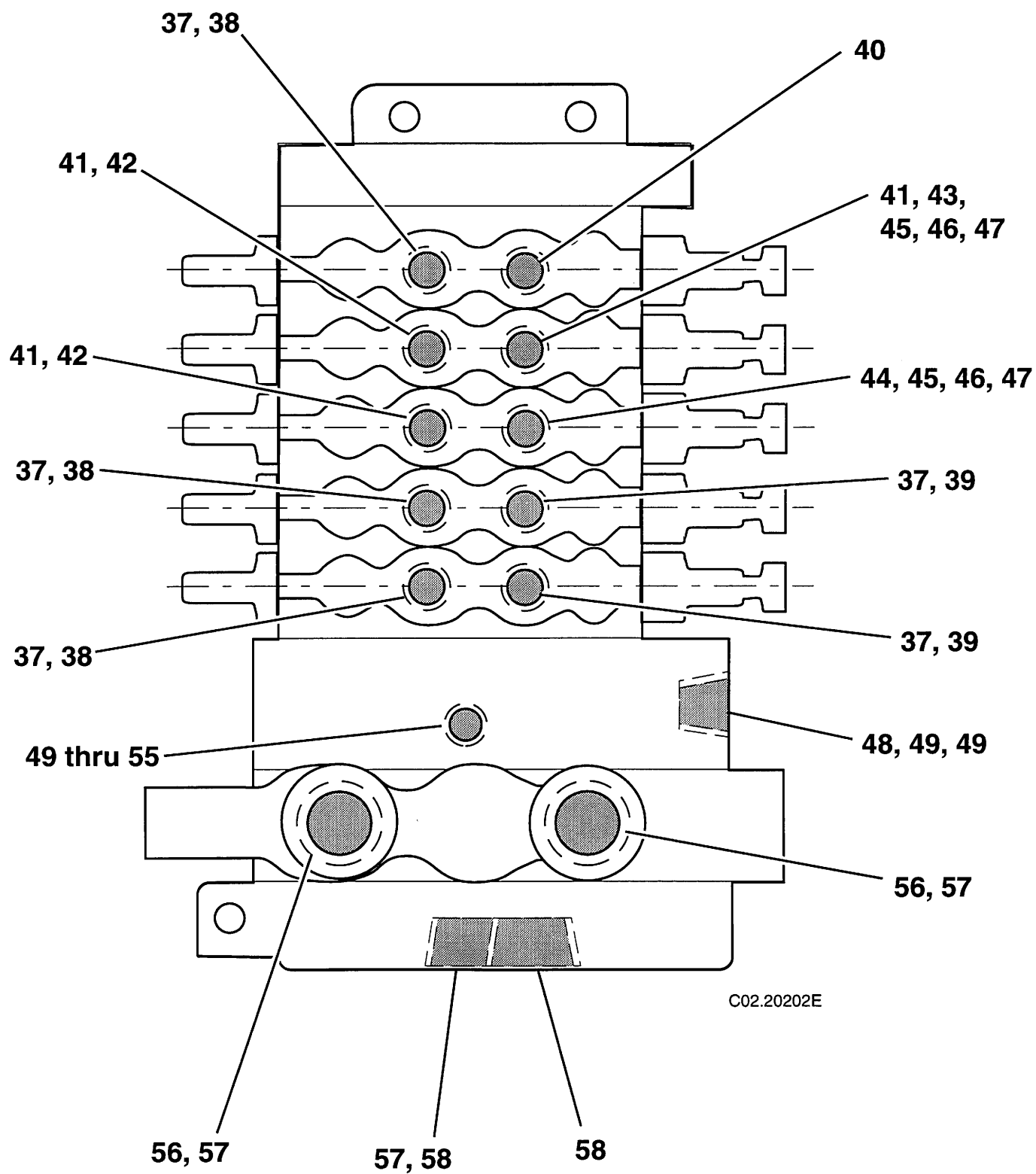
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items are included with the Ground Valve Bank Assembly. They are not included with the Ground Valve Bank:	
37	06-090600		REDUCER/ EXPANDER (8-6 F5O G5-S)	5
38	06-047000		45° ELBOW, "O"-RING TO 37° (6 V5OX-S)	3
39	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	2
40	06-044700		90° ELBOW, "O"-RING TO 37° (6-8 C5OX-S)	1
41	06-040100		ADAPTER, "O"-RING TO 37° (8 F5OX-S)	3
42	06-053100		45° ELBOW, SWIVEL NUT (8 V6X-S)	2
43	06-051600		90° ELBOW, SWIVEL NUT (8 C6X-S)	1
44	06-044800		90° ELBOW, "O"-RING TO 37° (8 C5OX-S)	1
45	06-207800		ADAPTER, SWIVEL NUT (8 F65OX-S)	2
46	01-019000		VALVE, FLOW CONTROL (Needle valve, #8 SAE ports)	2
47	06-047100		45° ELBOW, "O"-RING TO 37° (8 V5OX-S)	2
48	06-040000		ADAPTER, "O"-RING TO 37° (6-10 F5OX-S)	1
49	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	3
50	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	1
51	06-056000		BRANCH TEE, 37° FEMALE SWIVEL NUT (6 S6X-S)	1
52	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	1
53	353 4140		TUBE ASSEMBLY	1
54	06-086600		ADAPTER, "O"-RING TO FEMALE NPT (6-1/4 F5O G-S)	1
55	01-021000		GAUGE, HYDRAULIC PRESSURE (1/4" male NPT) (0-400 psi [0-28,000 kPa])	1
56	06-043300		ADAPTER (LONG), "O"-RING TO 37° (12 FF50X-S)	2
57	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	3
58	06-041100		ADAPTER, "O"-RING TO 37° (12-16 F5OX-S)	2

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

PLATE NO. C02.201 **SIMON AERIALS INC.**

REV. 19 FEB., 1997

PART NO.



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

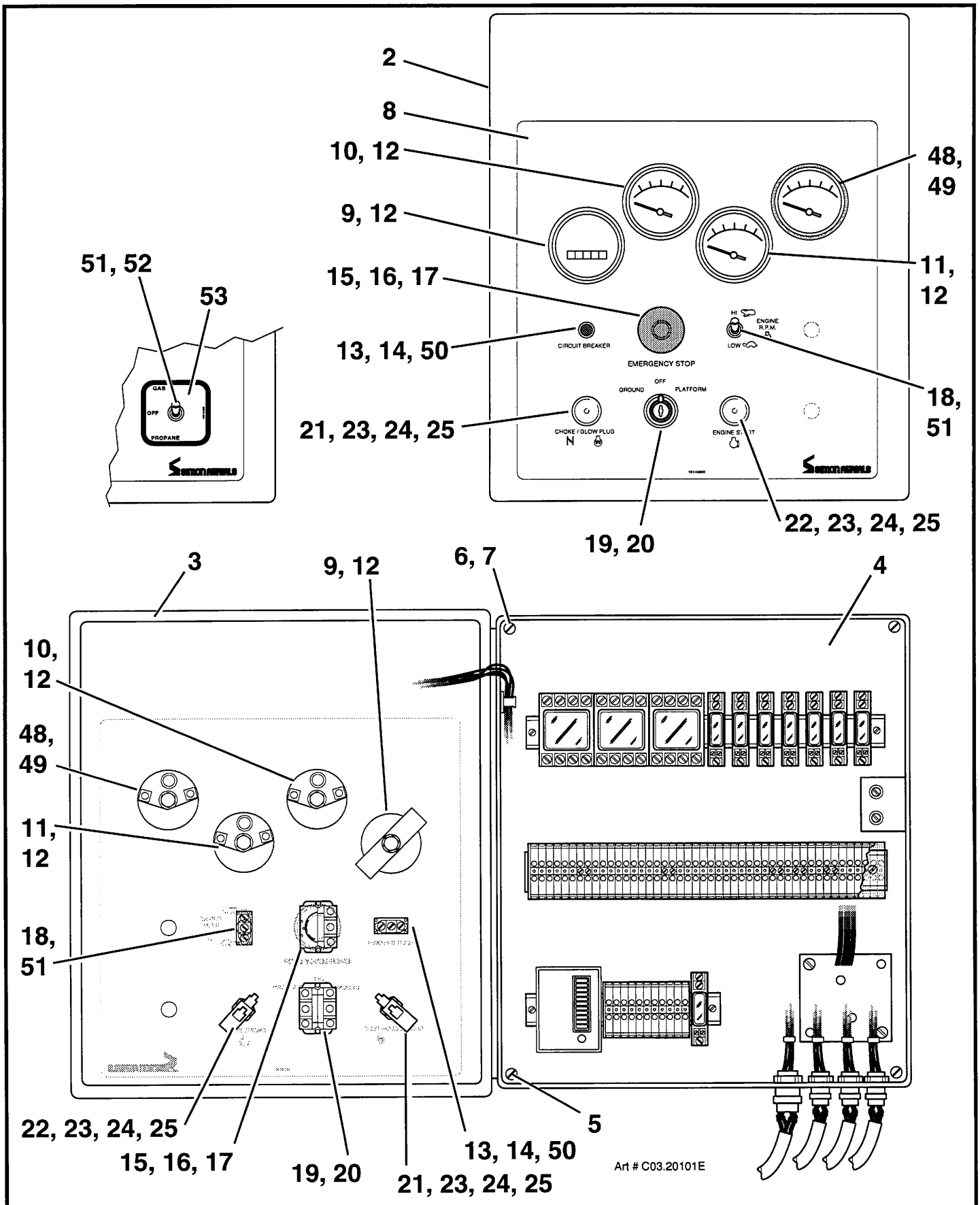
SIMON AERIALS INC.

REV. 19 FEB., 1997

PART
NO.

PLATE
NO. C02.201

ITEM	PART NO	SEE SECTION	
1	353 5620 353 5621 353 5620		GR MP Mc Mc
2	231 0430		E
3	10-129100		V
4	219 6530		S
5	07-013411		N
6	07-013414		N
7	07-117600		V
8	10-144300		D
9	03-492300		N
10	03-492200		N
11	03-492400 03-496400		C
12	01-225700		"
13	03-024000		E
14	01-037400		"
15	03-496000 03-702000		E
16	03-454900		E
17	03-496300 03-437300		E
18	03-020400		S
	03-497900		F
19	03-496100		S
20	03-496200		E
TITLE GROUND CONTROL BO			
PLATE NO. C03.201		SIMON A	



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.
21	03-402500		GROUND CONTROL BOX ASSEMBLY (continued) 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 310000036". 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. C03.201 **SIMON AERIALS INC.**

REV. 09 FEB., 1996

PART NO.

PARTS LIST

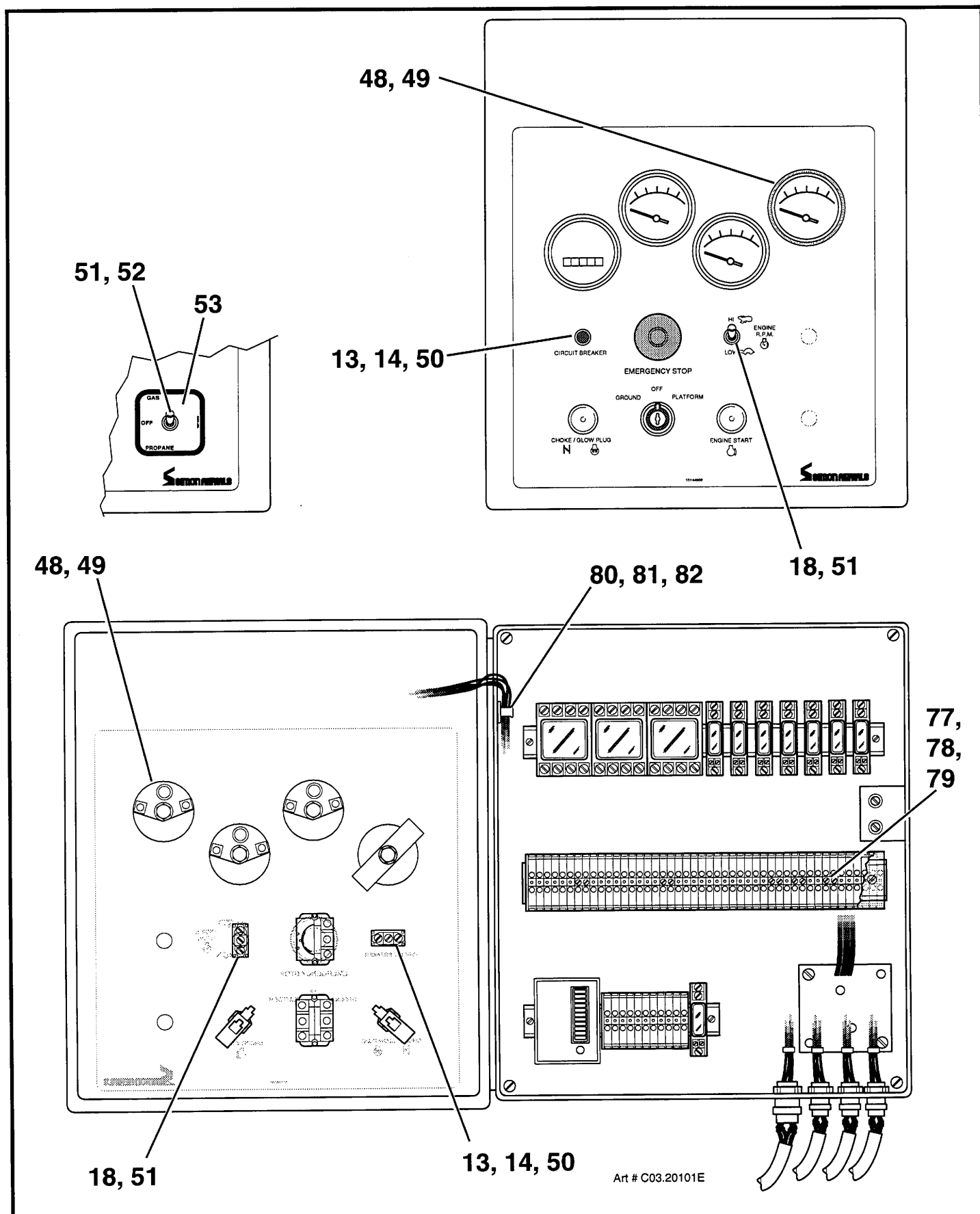
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items are not included with the Ground Control Box:	
48	03-493300		GAUGE, ENGINE COOLANT TEMPERATURE (optional with liquid cooled engines)	1
49	01-225700		"O"-RING (1.989" I.D., .070" thick) (Meter seal to panel)	1
50	03-499800		SEAL, CIRCUIT 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. C03.201 **SIMON AERIALS INC.**

REV. 09 FEB., 1996

PART NO.



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

PARTS LIST

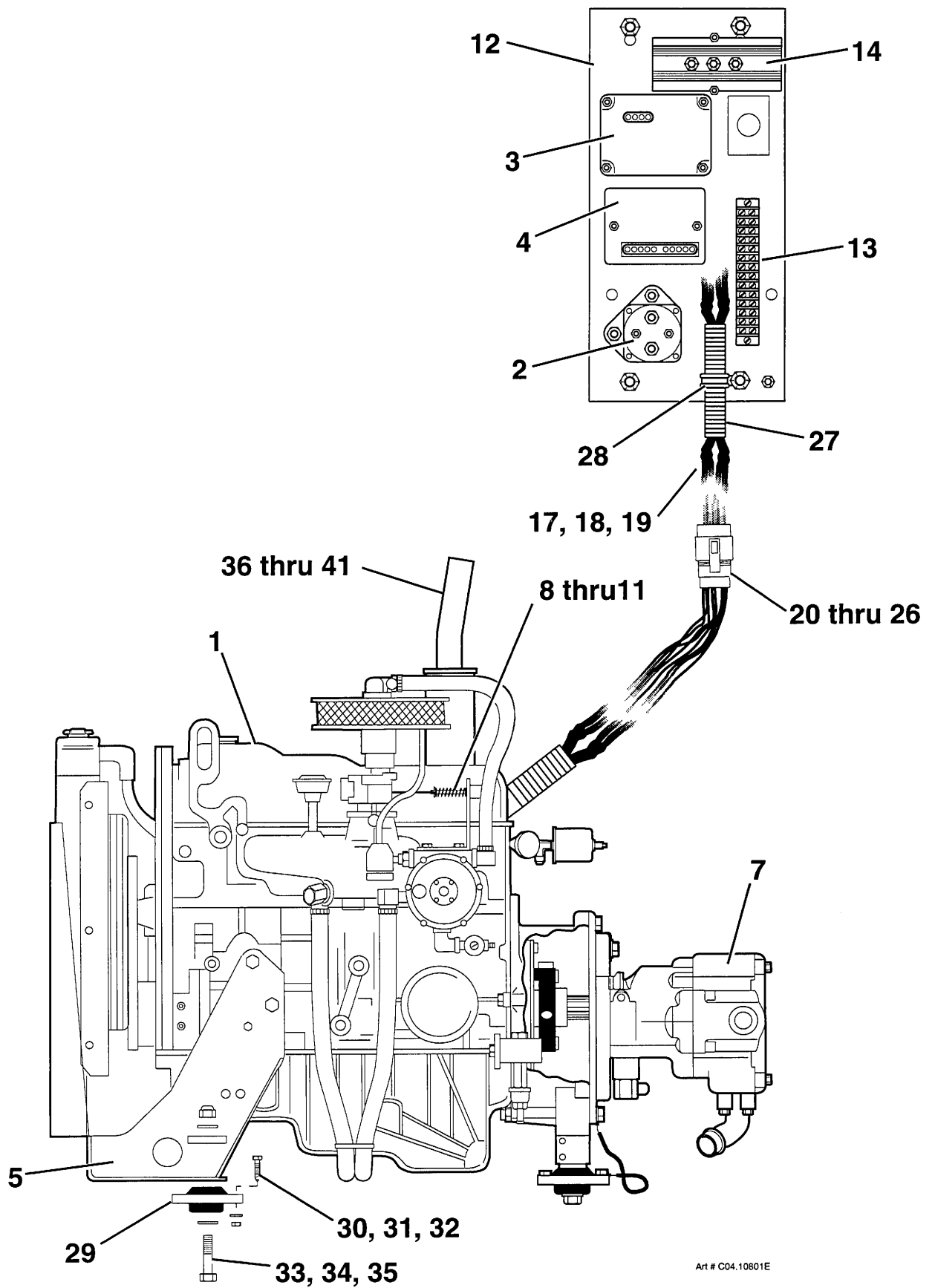
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	Call Simon Call Simon		ENGINE ASSEMBLY (Ford LRG-423) 63 HP (47 Kw) liquid cooled gas four cylinder 63 HP (47 Kw) liquid cooled dual fuel four cylinder	1
2	-----		RELAY, STARTER (Comes with engine. Marked "E4JL-11450-AA")	1
3	-----		MODULE (Blue. Comes with engine. Marked "F4JL-12A458-BB")	1
4	-----		MODULE (Gray. Comes with engine. Marked "F5JL-12A297-BA")	1
5	-----		BRACKET, FUEL PUMP MOUNTING (c/w engine)	1
6	235 5170		BRACKET, RADIATOR MOUNTING	1
7	01-236900	D08.15	PUMP, HYDRAULIC (Pump is marked "PAVC 65 X 3224")	1
8	235 3930		BRACKET, CHOKE SOLENOID	1
9	03-452100		CYLINDER, CHOKE SOLENOID (12 Volt DC)	1
10	07-075414		ROLL PIN (1/8" x 1")	1
11	-----		ROD (1/16" dia. x 6" long)	1
12	235 2040		PANEL, REMOTE ELECTRICAL MOUNTING	1
13	03-468700		STRIP, TERMINAL (14 contact)	1
14	03-712500		ISOLATOR, BATTERY (marked "48090")	1
15	03-467500		RELAY (Single pole, single throw, 12 Volt DC, normally open, sealed)	1
16	03-469200		BRACKET, CHOKE RELAY	1
17	03-088300		WIRE, ELECTRICAL (Blue, #14 AWG) (Bulk item, order as needed.)	A.R.
18	03-088400		WIRE, ELECTRICAL (Black, #14 AWG) (Bulk item, order as needed.)	A.R.
19	03-466300		WIRE, ELECTRICAL (Red, #10 AWG stranded) (Bulk item, order as needed.)	A.R.
20	03-473800		PLUG, TERMINAL (Male, 4 conductor)	2
21	03-473700		HOUSING, TERMINAL (Female, 4 conductor)	2
22	-----		PLUG, TERMINAL (Male, 2 conductor)	1
23	03-486000		HOUSING, TERMINAL (Female, 2 conductor)	1
24	03-473900		TERMINAL, PIN	A.R.
25	03-474000		TERMINAL, SOCKET (for #14 to #16 wire)	A.R.
26	-----		BOOT, SINGLE WIRE TERMINAL	20
27	03-066900		LOOM, WIRE (1/2") (Bulk item, order as needed. 6 Ft [1.83 M] needed in this application.)	A.R.
28	10-061600		CLAMP, LOOP (1", G-16)	2

TITLE ENGINE ASSEMBLY, FORD LRG-423 (PLATE 1 OF 2)

PLATE NO. C04.108 **SIMON AERIALS INC.**

REV. 05 MAR., 1996

PART NO.



TITLE

ENGINE ASSEMBLY, FORD LRG-423 (PLATE 1 OF 2)

SIMON AERIALS INC.

REV. 05 MAR., 1996

PART
NO.

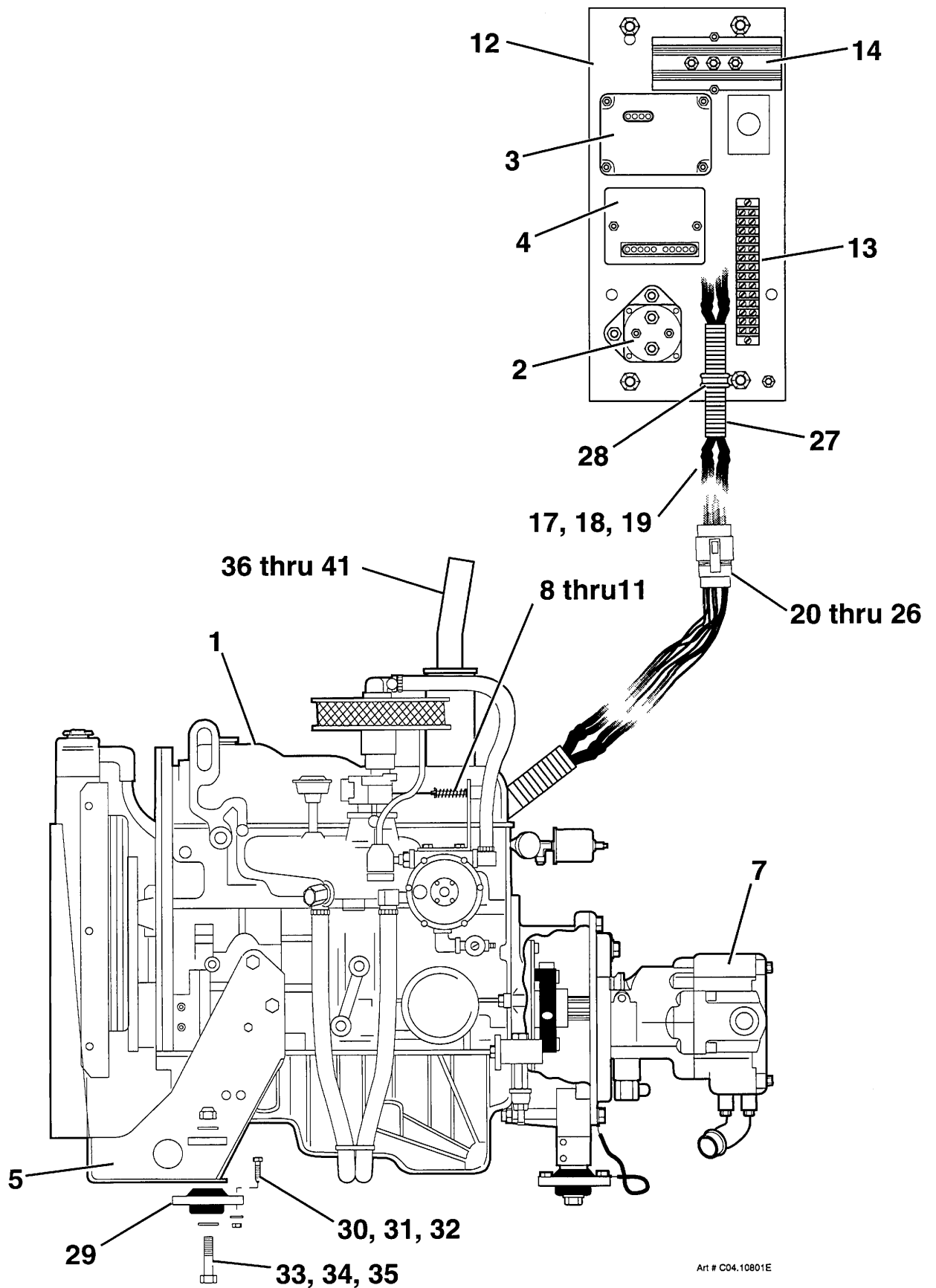
PLATE
NO. C04.108

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SIMON AERIALS INC.

REV. 05 MAR., 1996

PART
NO.



TITLE

ENGINE ASSEMBLY, FORD LRG-423 (PLATE 2 OF 2)

SIMON AERIALS INC.

REV. 05 MAR., 1996

PART
NO.

PLATE
NO. C04.108

PARTS LIST

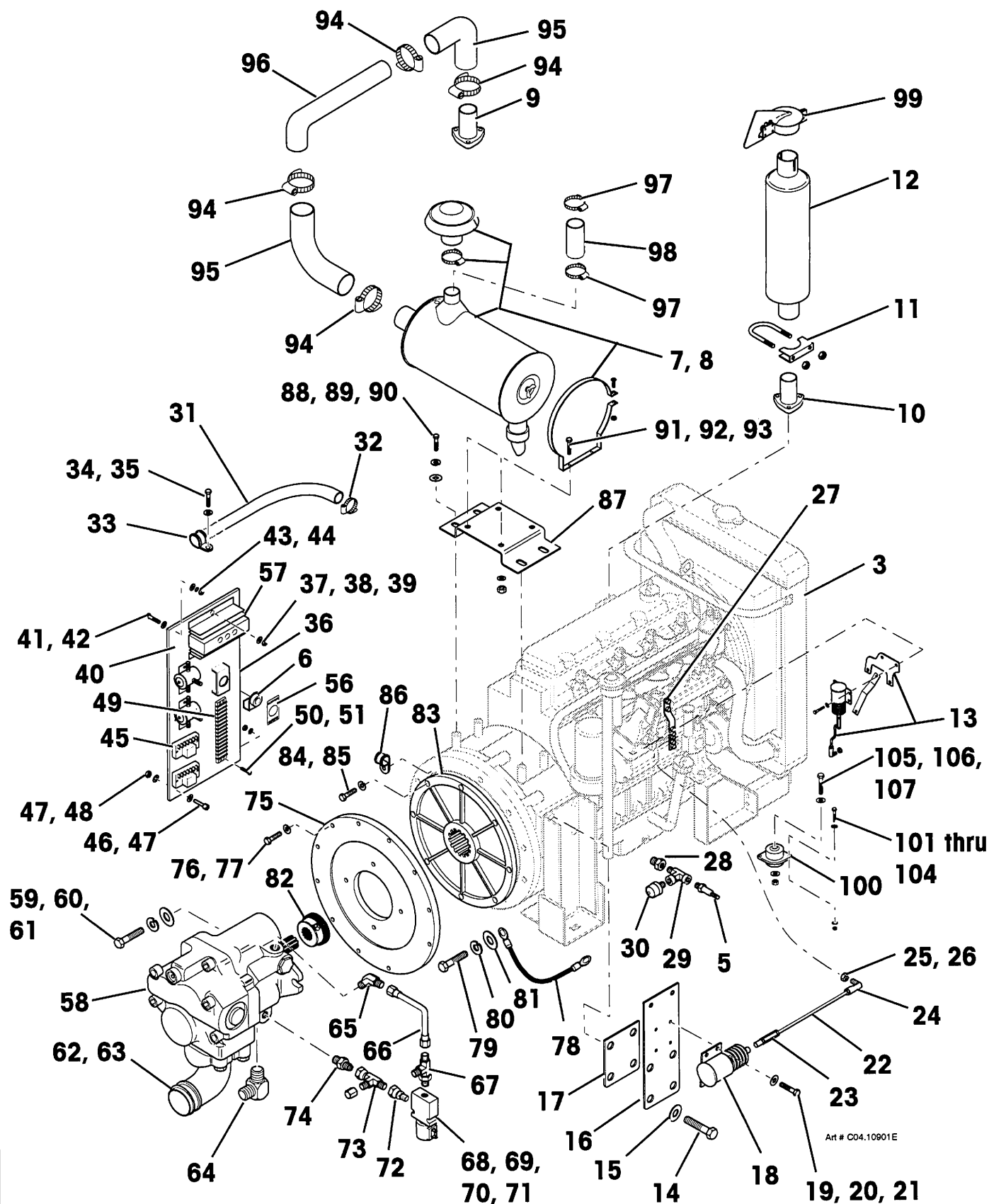
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 6230		ENGINE GROUP (Isuzu C-240; RP 46, T-40)	1
2	354 5343		ENGINE ASSEMBLY (Isuzu C-240)	1
3	231 9100		ENGINE (modified with new engine mounting plate)	1
4	09-049200		ENGINE (Isuzu C-240 liquid cooled Diesel)	1
5	---		SWITCH, OIL PRESSURE (comes with engine)	1
6	---		LAMP, GLOW PLUG INDICATOR (comes with engine)	1
7	---		AIR CLEANER ASSEMBLY (comes with engine)	1
8	---		ELEMENT, AIR FILTER (comes with engine)	1
9	---		PIPE, INTAKE (Straight) (comes with engine)	1
10	---		PIPE, EXHAUST (Straight) (comes with engine)	1
11	---		CLAMP, MUFFLER (comes with engine)	1
12	---		MUFFLER (comes with engine)	1
13	---		SOLENOID, FUEL SHUTDOWN (comes with engine)	1
14	---		BOLT, HEX HEAD (comes with engine)	4
15	---		WASHER (comes with engine)	4
16	236 7080		BRACKET, THROTTLE SOLENOID	1
17	236 7090		SPACER, THROTTLE SOLENOID BRACKET	1
18	03-456900		SOLENOID, THROTTLE (4-bolt mount) (with module)	1
19	07-003005		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	4
20	07-060014		WASHER, FLAT (1/4", SAE)	8
21	07-050014		NUT, LOCK (1/4"-20, Grade 5)	4
22	11-008005		ROD, THREADED (1/4"-28, Grade 5) (3 ft [.91 m] long piece. Cut to fit. 13" [.33 m] long piece needed here.)	1
23	09-016402		BALL JOINT (1/4"-28, straight)	1
24	09-016403		BALL JOINT (1/4"-28, 90°)	1
25	07-047114		NUT, JAM (1/4"-28, Grade 5)	3
26	07-065014		WASHER, HELICAL LOCK (1/4")	1
27	236 0160		ARM, THROTTLE LEVER	1
28	06-211300		ADAPTER, BSP TO NPT (1/8 x 1/8 F3HG-S)	1
29	06-074600		STREET TEE (1/8 MRO-S) (2MP-2FP-2FP)	1
30	09-052200		SENDING UNIT, OIL PRESSURE GAUGE (0-100 psi [690 kPa])	1
31	05-081900		FUEL LINE (5/16") (Vent, valve cover breather) (Bulk item, order as needed. 2.4 ft [.73 m] used here.)	A.R.
32	09-004600		CLAMP, WORM (1/4" to 5/8")	1
33	10-061200		CLAMP, LOOP (G-12, 3/4")	1
34	07-005147		CAP SCREW, HEX HEAD (M8-1.25 x 16 mm, Grade 8.8)	1
35	07-066005		WASHER, HELICAL LOCK (8 mm)	2

TITLE

ENGINE ASSEMBLY, ISUZU C-240 DIESEL

SECTION **C04.** | PLATE NO. **109** | PAGE **01** | REV. **-** | DATED **29 JAN., 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



Art # C04.10901E

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

TITLE

ENGINE ASSEMBLY, ISUZU C-240 DIESEL

PART NO.

REV.

DATED

29 JAN., 1997

SECTION

C04.

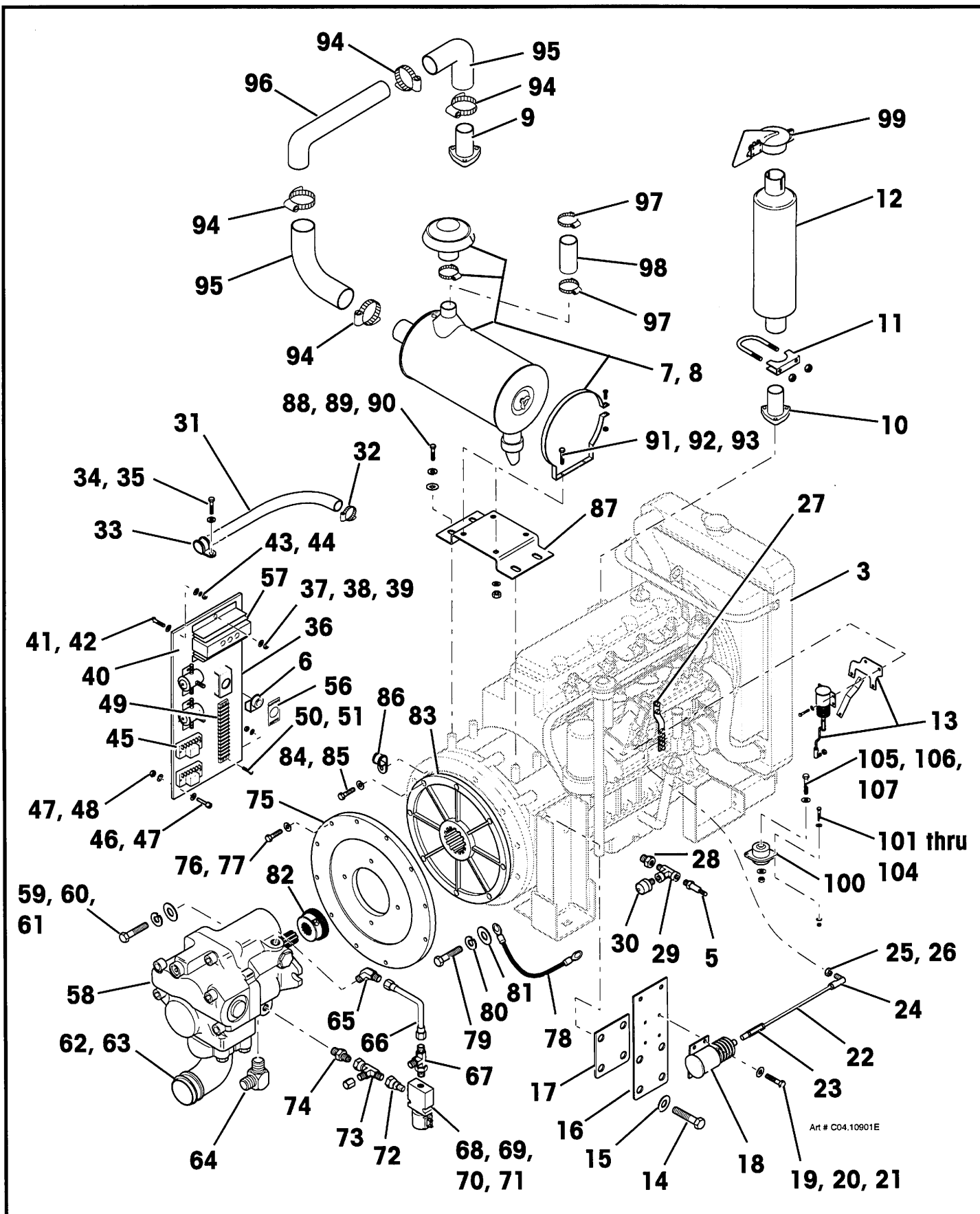
PLATE NO.

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PAGE

01

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
36	235 2040		ENGINE ASSEMBLY (continued)	1
37	06-059000		PANEL, ENGINE ACCESSORY	4
38	07-060016		SPACER (Sleeve 6 TX-S)	8
39	07-050016		WASHER, FLAT (3/8", SAE)	4
40	03-051300		NUT, STOP (3/8"-16)	2
41	07-003002		RELAY (12 Volt DC, single pole, single throw)	4
42	07-060014		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	4
43	07-111600		WASHER, FLAT (1/4", SAE)	2
44	07-050014		WASHER, EXTERNAL TOOTH LOCK (1/4")	4
45	03-456803		NUT, LOCK (1/4"-20, Grade 5)	2
46	07-008354		MODULE, THROTTLE SOLENOID	4
47	07-062009		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4")	8
48	07-050011		WASHER, FLAT (#8)	4
49	03-468700		NUT, STOP (#10-24)	1
50	07-011334		BLOCK, TERMINAL (14 station)	2
51	07-050007		MACHINE SCREW, ROUND HEAD (#6 32 x 3/4")	2
52	07-003002		NUT, STOP (#6-32, Grade 5)	1
53	07-060014		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	1
54	07-111600		(Panel ground, used on some earlier versions. Not shown.)	1
55	07-050014		WASHER, FLAT (1/4", SAE)	1
56	10-115800		WASHER, EXTERNAL TOOTH LOCK (1/4")	1
57	03-712500		NUT, LOCK (1/4"-20, Grade 5)	1
58	01-236900	D08.15	DECAL, "GLOW PLUG INDICATOR"	1
59	07-003127		ISOLATOR, BATTERY (90 Amp)	1
60	07-060021		PUMP ASSEMBLY, HYDRAULIC (marked "PAVC 65 X 3224")	1
61	07-065021		(50 c.c./ rev. output)	2
62	06-216700		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 5)	2
63	06-216600		WASHER, FLAT (5/8")	2
64	06-045600		WASHER, HELICAL LOCK (5/8")	1
			FLANGE, SUCTION FITTING (1-1/2")	1
			(includes two flange halves and mounting hardware)	1
			90° FITTING (1-1/2" stem to 1-1/2" hose)	1
			90° ELBOW, "O"-RING TO 37° (12-16 C50X-S)	1
			(12MJ-16MB 90°)	1
TITLE			ENGINE ASSEMBLY, ISUZU C-240 DIESEL	
SECTION	PLATE NO.	PAGE	REV.	DATED
C04.	109	02	-	29 JAN., 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	



Art # C04.10901E

Simon Aerials Inc.
10600 West Brown Deer Road
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24 Hr (Machine) 414-362-8280
Fax 414-355-3172

TITLE

ENGINE ASSEMBLY, ISUZU C-240 DIESEL

PART
NO.

REV.

DATED

29 JAN., 1997

SECTION

C04.

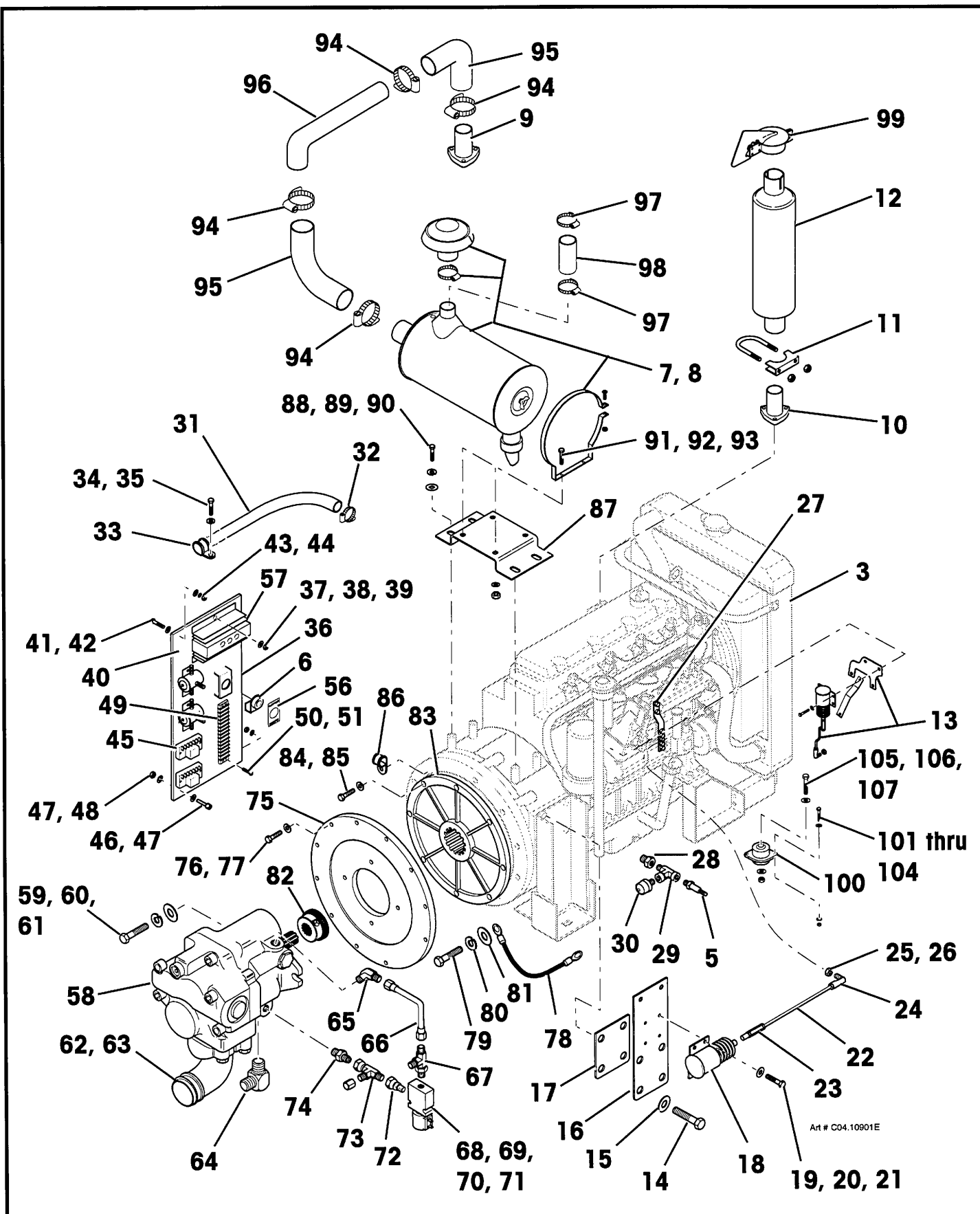
PLATE NO.

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PAGE

02

PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
65	06-047000		ENGINE ASSEMBLY (continued)		
66	353 6550		45° ELBOW, "O"-RING TO 37° (6 V50X-S) (6MJ-6MB 45°)	1	
67	06-048500		TUBE, HYDRAULIC	1	
68	01-013900		RUN TEE, MALE "O"-RING TO 37° (6 R50X-S) (6MB-6MJ-6MJ)	1	
69	01-013700		VALVE BLOCK, CARTRIDGE	1	
70	01-013701		VALVE, TWO-WAY (Solenoid operated)	1	
71	01-013702		SEAL KIT, VALVE	1	
72	06-079000		COIL (12 Volt DC)	1	
73	06-054500		CONNECTOR, SWIVEL NUT (6 F650X-S)	1	
74	06-191900		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S) (6SJX-6MJ-6MJ)	1	
75	02-036500		ADAPTER, "O"-RING TO 37° (6-4 F50X-S) (6MJ-4MB)	1	
			ADAPTER, PUMP (1/2" [13 mm] thick)		
			(12 hole, 14-1/4" pilot flywheel housing to "C" [2 hole, 5" pilot] pump mount)	1	
76	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4")	12	
77	07-065016		WASHER, HELICAL LOCK (3/8")	12	
78	03-735800		STRAP, GROUND (Braided, 12" [30.5 cm] long)	1	
79	07-005184		CAP SCREW, HEX HEAD (M10 x 25 mm, Grade 8.8)	1	
80	07-066006		WASHER, LOCK (10 mm)	1	
81	07-060016		WASHER, FLAT (3/8", SAE)	2	
82	02-048700		HUB, PUMP COUPLING (1.25", 14 tooth spline)	1	
83	02-046200		FLANGE, PUMP COUPLING.	1	
84	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4")	8	
85	07-065016		WASHER, HELICAL LOCK (3/8")	8	
86	10-061200		CLAMP, LOOP (G-12, 3/4")	1	
87	218 0190		BRACKET, AIR CLEANER	1	
88	07-005184		CAP SCREW, HEX HEAD (M10 x 25 mm, Grade 8.8)	4	
89	07-066006		WASHER, LOCK (10 mm)	4	
90	07-062016		WASHER, FLAT (3/8")	4	
91	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1")	4	
92	07-050016		NUT, STOP (3/8"-16)	4	
93	07-060016		WASHER, FLAT (3/8", SAE)	4	
94	09-015000		CLAMP, HOSE (Worm type) (3")	4	
95	09-018900		ELBOW, RUBBER (2" I.D.)	2	
96	09-051100		PIPE, AIR INTAKE (Metal)	1	
TITLE			ENGINE ASSEMBLY, ISUZU C-240 DIESEL		Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172
SECTION	C04.	PLATE NO. 109	PAGE 03	REV. -	
				DATED 29 JAN., 1997	PART NO.



Art # C04.10901E

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

ENGINE ASSEMBLY, ISUZU C-240 DIESEL

PART
NO.

REV.

DATED

29 JAN., 1997

SECTION

C04.

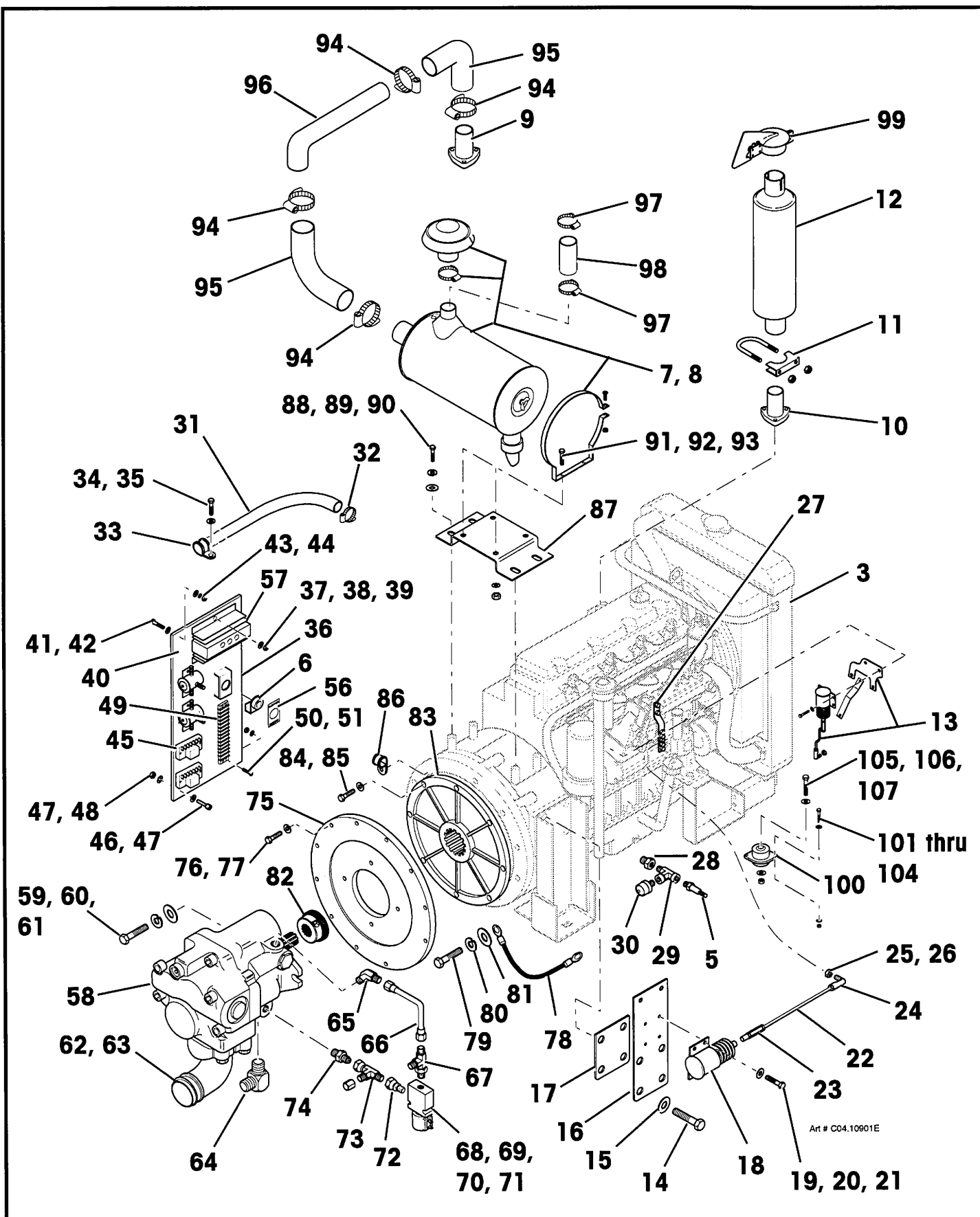
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24 Hr (Machine) 414-362-8280
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TITLE

ENGINE ASSEMBLY, ISUZU C-240 DIESEL

PART
NO.

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DATED

29 JAN., 1997

SECTION

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PLATE NO.

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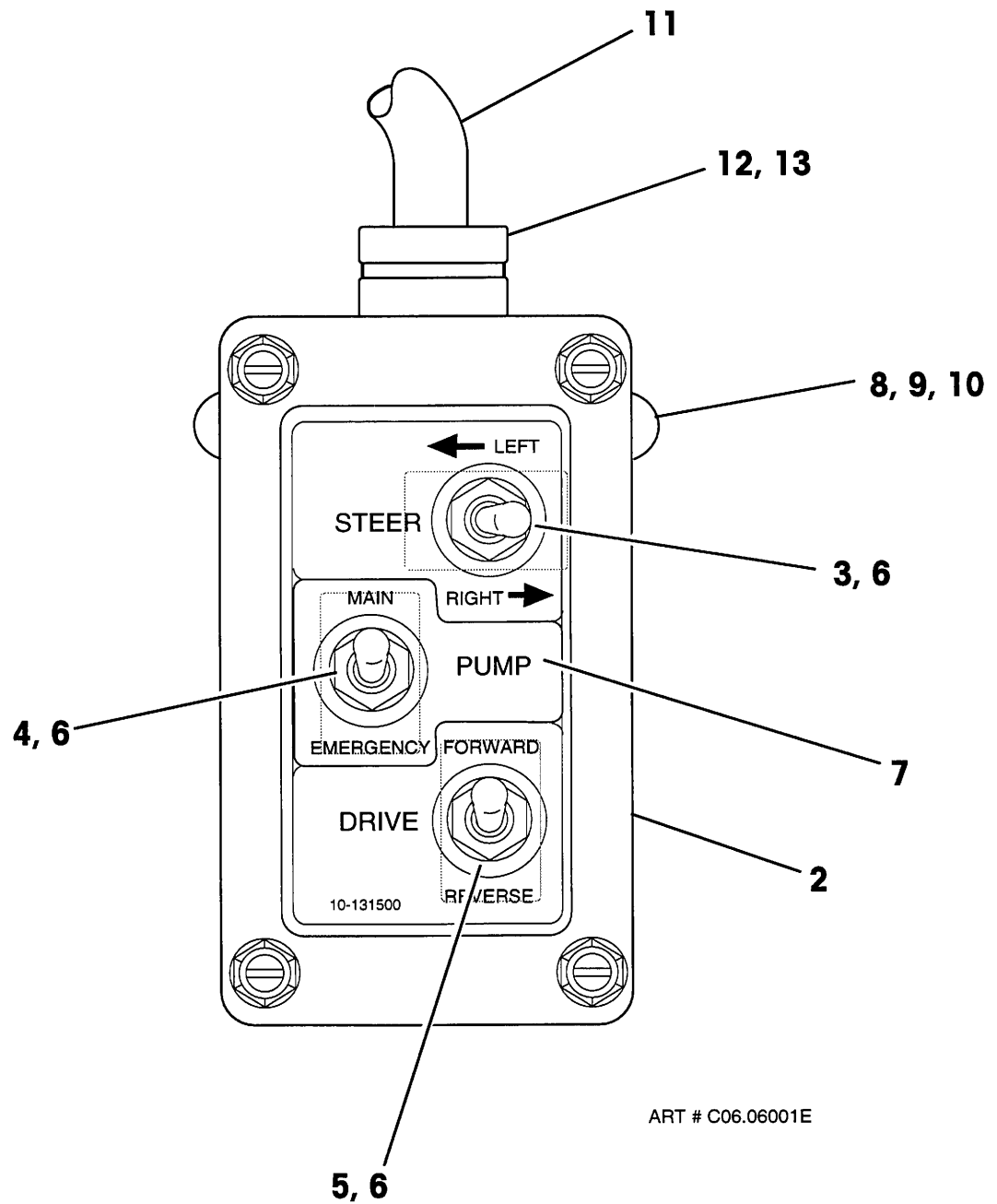
04

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	352 9370		PENDANT ASSEMBLY, REMOTE CONTROL	1
2	219 3970		BOX, CONTROL (includes cover) drilled for this application	1
3	03-406100 03-020500		undrilled box SWITCH, TOGGLE (Steer) (Three position, momentary contact, single pole, double throw)	1
4	03-020500 03-020600		SWITCH, TOGGLE (Pump) (Three position, momentary contact) single pole, double throw (current versions) double pole, double throw (some earlier versions)	1
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. Appearance change only, current style will be supplied.	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)	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		C06.		PLATE NO.		06		PAGE		01		REV.		A		DATED		14 FEB., 1997		PART NO.		352 9370	

Simon Aerials Inc.
10600 West Brown Deer Road
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ART # C06.06001E

Simon Aerials Inc.
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TITLE

PENDANT ASSEMBLY, REMOTE CONTROL

PART NO. **352 9370**

REV. **A**

DATED
14 FEB., 1997

SECTION **C06.**

PLATE NO. **06**

PAGE **01**

PARTS LIST

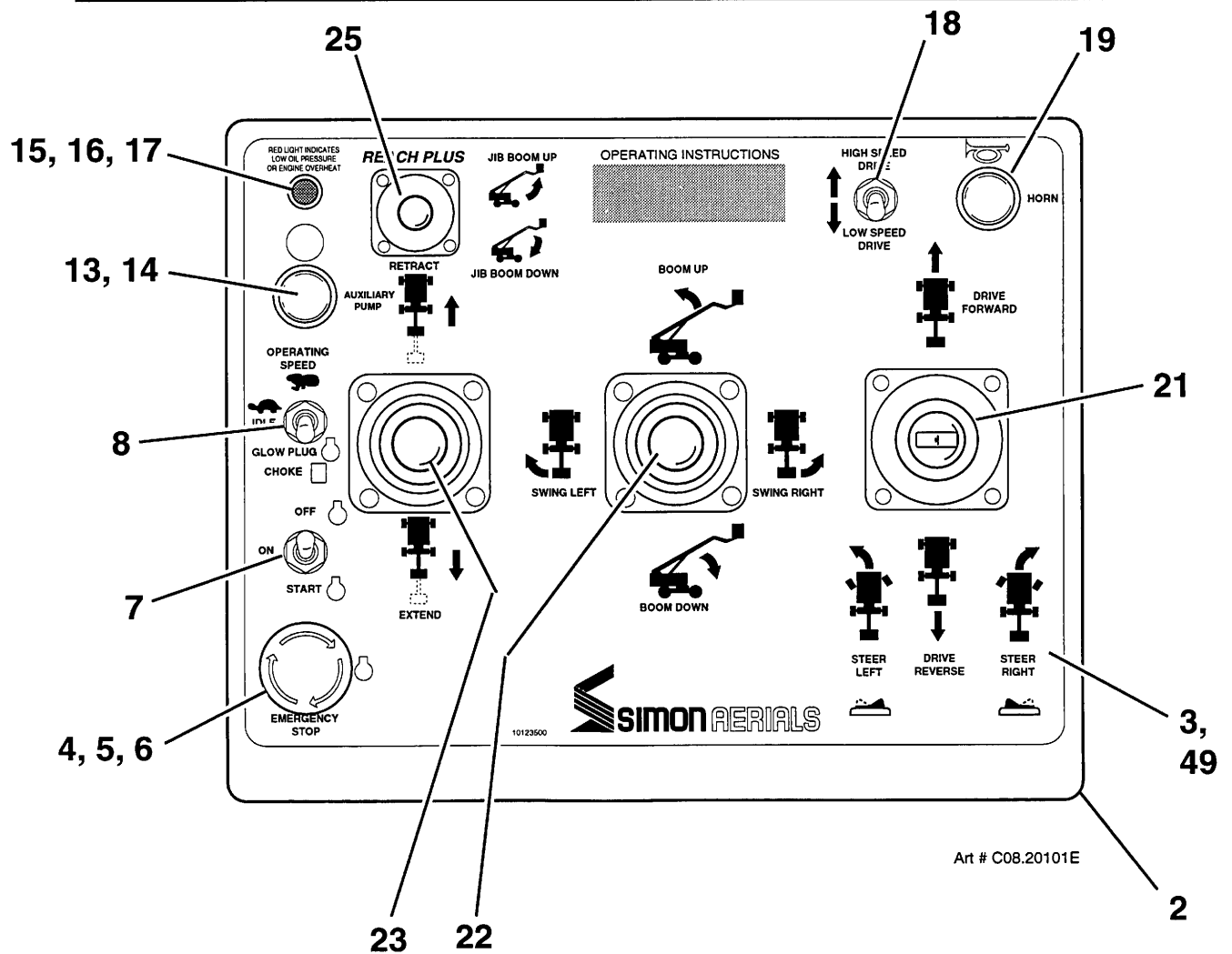
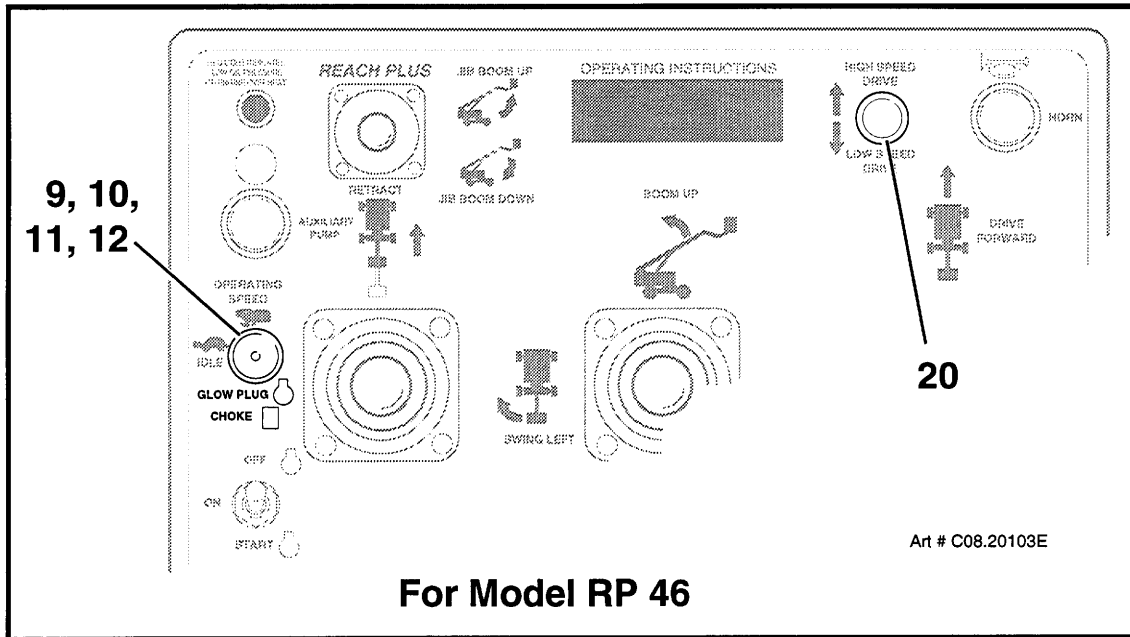
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	353 6241 353 6240		PLATFORM CONTROL BOX ASSEMBLY For Model RP 46 "Reach Plus" For Model RP 66 "Reach Plus"	1
2	231 9740		BOX, PLATFORM CONTROL	1
3	10-169100		PLACARD, PLATFORM CONTROL	1
4			BUTTON, EMERGENCY STOP	
	03-409800		(Red "twist to release" style) (earlier versions)	1
	03-702000		(Red "pull to release" style) (current version)	1
5	03-454900		BASE, CONTACT BLOCK	1
6	03-437300		BLOCK, CONTACT (Normally closed)	1
7	03-032600		SWITCH, TOGGLE (Start) (3 position, 2 maintained and 1 momentary contact, double pole, double throw)	1
8	03-032600		SWITCH, TOGGLE (Choke/ Glow plug; Engine speed) (for RP 66) (3 position, 2 maintained and 1 momentary contact, double pole, double throw)	1
9	03-402500		SWITCH, PUSH BUTTON (Choke/ Glow plug) (for RP 46) (10 Amp, 250 Volt AC)	1
10	03-402600		SEAL, SWITCH BEZEL (for RP 46)	1
11	03-402800		BUTTON, SWITCH (Blue) (for RP 46)	1
12	10-151000		CAP (Black vinyl) (for RP 46)	1
13	03-020300		SWITCH, PUSH BUTTON (Emergency pump)	1
14	03-020302		CAP, PUSH BUTTON SWITCH (Red. Includes nut)	1
15	03-481200		DIODE, BLINKING (Red) (Type 1, .07" [1.8 mm] dia.)	
	03-706400		DIODE, BLINKING (Red) (Type 2, .39" [9.9 mm] dia.)	
			Engine warning indicator lamp	1
			Glow plug indicator lamp (with optional Diesel engine)	1
16	03-481300		HOLDER, DIODE (used with " Type 1 " diode)	A.R.
17	03-481100		RESISTOR (470 Ohm) (used with " Type 1 " diode)	A.R.
18	03-020400		SWITCH, TOGGLE (Drive speed) (for RP 66) (2 position, maintained contact, single pole, single throw)	1
19	03-020300		SWITCH, PUSH BUTTON (Horn)	1
20	03-497900		PLUG, PLASTIC (1/2" dia., "Panel seal")	A.R.
21	03-735200	E01.16	CONTROLLER, SINGLE AXIS (with rocker) (Drive/ Steer) (Identified as " MJ 412A-1043 " or " MJ 4121-1043 ")	1
22	03-491100	E01.10	CONTROLLER, DUAL AXIS (Boom angle/ swing) (Identified on nameplate as " MJ 5122-1020 ")	1
23	03-734900	E01.17	CONTROLLER, SINGLE AXIS (Boom extend/ retract) (Identified as " MJ 9001-0401 " or " MJ 4121-1020 ")	1
24	03-499500		COVER KIT, CONTROLLER (includes one underside boot and clamp)	3
25	03-704700	E01.15	"MINI" CONTROLLER, SINGLE AXIS (Jib boom angle)	1

TITLE PLATFORM CONTROL BOX, RP 46, RP 66 (PLATE 1 OF 3)

PLATE NO. C08.201 **SIMON AERIALS INC.**

REV. 20 FEB., 1997

PART NO.



TITLE PLATFORM CONTROL BOX, RP 46, RP 66 (PLATE 1 OF 3)

SIMON AERIALS INC.

REV. 20 FEB., 1997

PART
NO.

PLATE
NO. C08.201

PARTS LIST

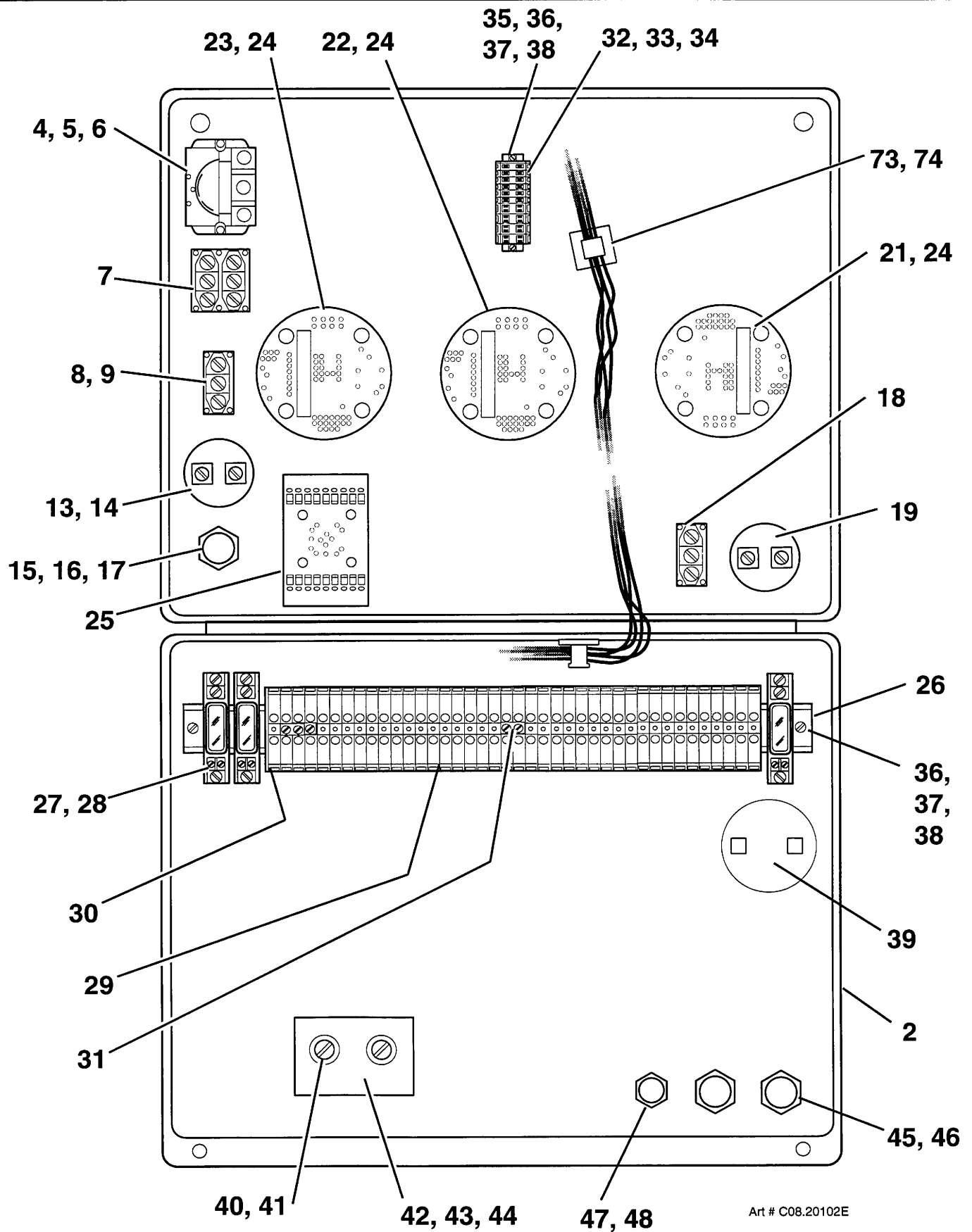
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
26	03-051700		RAIL, TERMINAL (1 M [39.38"] long section) (305 mm [12"] long piece needed for this application)	A.R.
27	03-051600		SOCKET, RELAY (Single pole, snap mount)	3
28	03-051500		RELAY, PLUG IN (12 Volt DC, single pole) For Model RP 46 For Model RP 66	2 3
29	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire) For Model RP 46 For Model RP 66	39 43
30	03-066100		PLATE, TERMINAL BLOCK END	1
31	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.
32	03-036400		BLOCK, TERMINAL (2 conductor, #16-#24 ga. wire)	6
33	03-036500		BLOCK, TERMINAL (4 conductor, #16-#24 ga. wire) For Model RP 46 For Model RP 66	4 3
34	03-036700		PLATE, TERMINAL BLOCK END	1
35	03-036600		RAIL, TERMINAL (1 M [39.37"] long section) (102 mm [4"] long piece needed for this application)	A.R.
36	07-011335		MACHINE SCREW, ROUND HEAD (#6-32 x 1/2")	4
37	07-090063		WASHER, EXTERNAL TOOTH (#6)	2
38	07-050007		NUT, STOP (#6-32, Grade 5)	2
39	03-501800		ALARM (Dual tone)	1
40	03-027231		POTENTIOMETER (10 K Ohm)	2
41	03-044900		LOCK, SHAFT	2
42	232 3870		BRACKET, POTENTIOMETER MOUNTING	1
43	07-090156		CAP SCREW, BUTTON HEAD (1/4"-20 x 5/8", Stainless Steel)	2
44	07-065014		WASHER, HELICAL LOCK (1/4")	2
45	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)	2
46	03-055600		NUT, CONDUIT (3/4")	2
47	03-041000		GRIP, CORD (1/2", with .38" to .44" seal)	1
48	03-055500		NUT, CONDUIT (1/2")	1

TITLE PLATFORM CONTROL BOX, RP 46, RP 66 (PLATE 2 OF 3)

PLATE NO. C08.201 **SIMON AERIALS INC.**

REV. 20 FEB., 1997

PART NO.



TITLE PLATFORM CONTROL BOX, RP 46, RP 66 (PLATE 2 OF 3)

SIMON AERIALS INC.

REV. 20 FEB., 1997

PART
NO.

PLATE
NO. C08.201

PARTS LIST

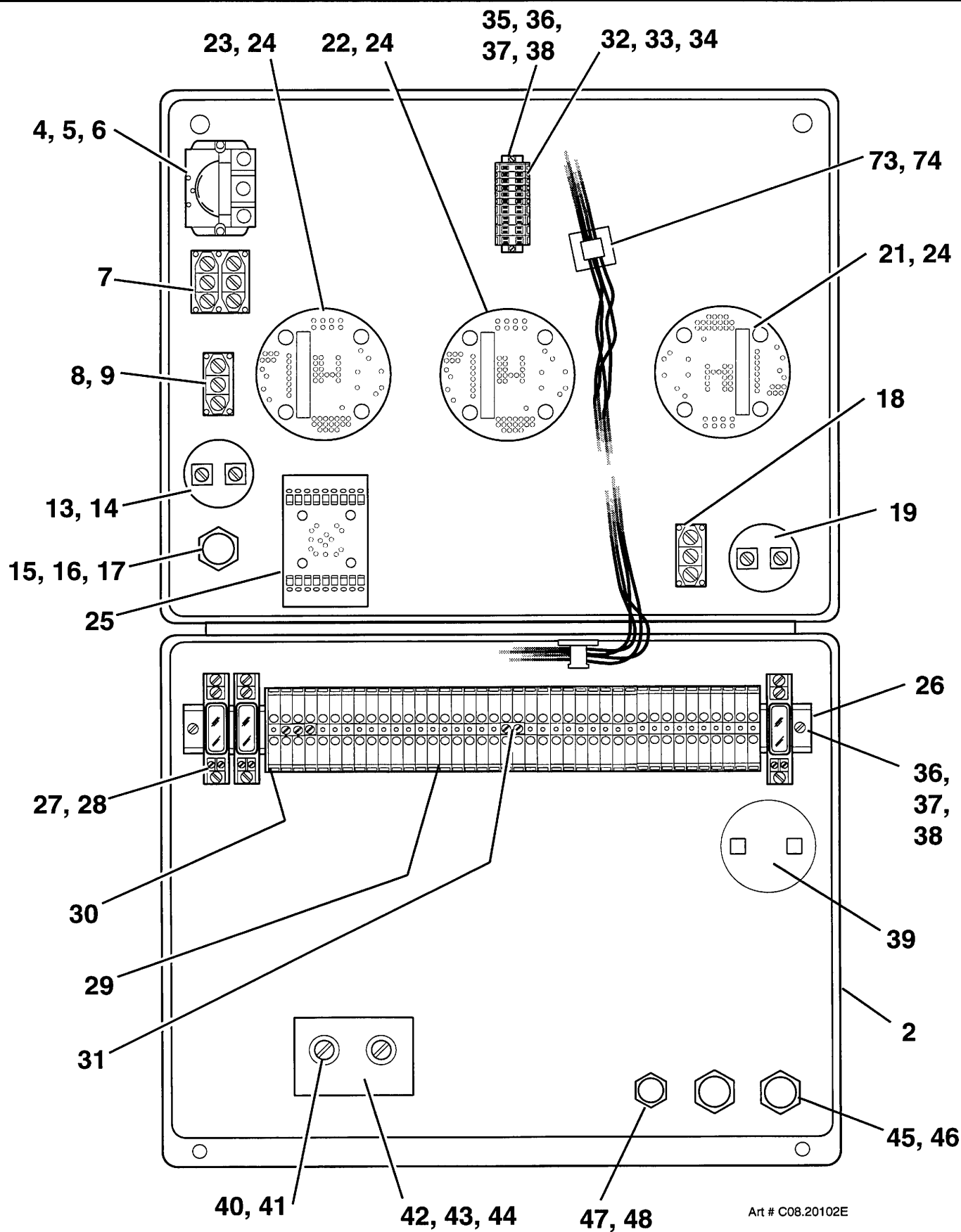
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items are are not included with the Platform Control Box:	
49	10-271900		PLATE, PLATFORM CONTROL (Stencil-cut aluminum. Replaces Lexan placard when sandblast package is fitted.)	1
50	03-020400		SWITCH, TOGGLE (for optional lights) (not shown) (2 position, maintained contact, single pole, single throw)	1
51	10-021100		DECAL, LIGHTS (not shown)	1
			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	03-088300		WIRE, ELECTRICAL (#14 AWG, Blue, stranded) (Bulk item)	
54	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item)	
55	03-087600		WIRE, ELECTRICAL (#16 AWG, Black, stranded) (Bulk item)	
56	03-061800		DIODE	
57	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	
58	03-092300		COUPLING, INSULATED (Female, blue nylon, #14-16 AWG)	
59	03-096000		TERMINAL, END (Blue, "piggyback") (#14-16 AWG)	
60	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	
61	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	
62	03-098400		TERMINAL, END (Blue, #14-16 AWG)	
63	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	
64	03-098100		TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG)	
65	03-095500		TERMINAL, RING (Yellow, #10 AWG, #6 stud)	
66	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	
67	03-099100		CONNECTOR, BUTT (Yellow, #10-12 AWG)	
68	03-095900		TERMINAL, RING (Red, #8 stud)	
69	03-066800		LOOM, WIRE (1/2")	
70	03-066900		LOOM, WIRE (3/4")	
71	03-405200		TUBING, HEAT SHRINK (Clear, 3/16")	
72	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	
73	03-064000		TIE, CABLE (7.4" [188 mm] long)	
74	03-064100		MOUNT, CABLE TIE (Adhesive backed)	

TITLE PLATFORM CONTROL BOX, RP 46, RP 66 (PLATE 3 OF 3)

PLATE NO. C08.201 **SIMON AERIALS INC.**

REV. 20 FEB., 1997

PART NO.



TITLE

PLATFORM CONTROL BOX, RP 46, RP 66 (PLATE 3 OF 3)

SIMON AERIALS INC.

REV. 20 FEB., 1997

PART
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PLATE
NO. C08.201

PARTS LIST

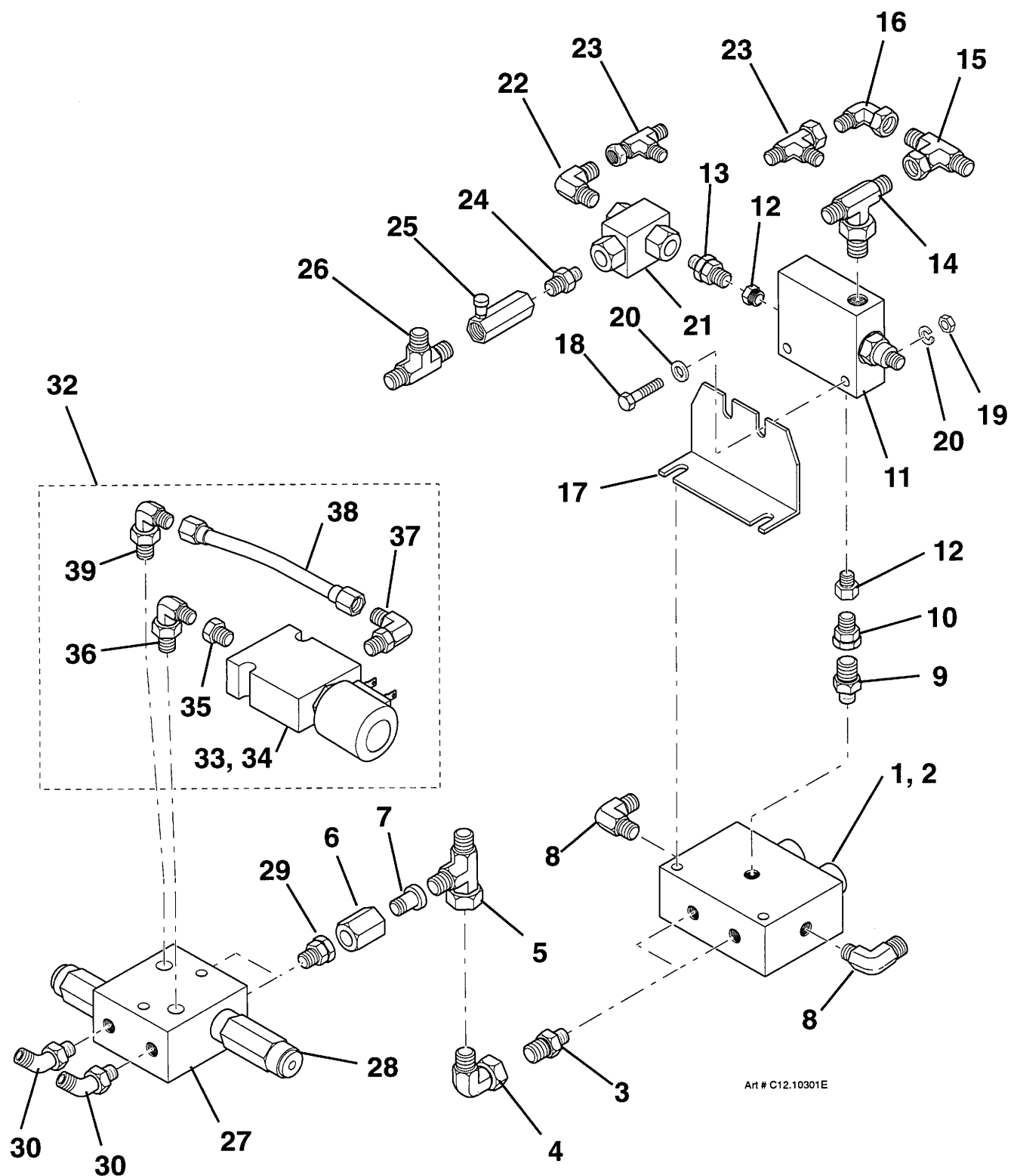
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			MOTION CONTROL VALVE ASSEMBLY (for models with 360° continuous rotation superstructure) Earlier versions using #12 drive hoses Later versions using #16 drive hoses	1
	353 1840			
	354 5440			
1	01-225900		VALVE, MOTION CONTROL (10:1 pilot, with shuttle. Marked " CBG HLC NYKM ". Set at 3000 psi [207 bar] [211 kg/cm ²])	1
2	01-013101		SEAL KIT, MOTION CONTROL VALVE	1
3	06-041100		ADAPTER, "O"-RING TO 37° (12-16 F5OX-S)	2
4	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	2
5	06-054800		RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S)	2
6	06-057800		NUT, TUBE (12 BTX-S)	2
7	06-060900		REDUCER, TUBE END (12-8 TRTX-S)	2
8			90° ELBOW, "O"-RING TO 37°	2
	06-045600		12-16 C5OX-S (Earlier versions)	
	06-045800		16 C5OX-S (Later versions)	
9	06-191900		ADAPTER, "O"-RING TO 37° (6-4 F5OX-S)	1
10	06-079000		CONNECTOR, SWIVEL NUT (6 F65X-S)	1
11	01-012800		VALVE, PRESSURE REDUCING (10 Gal. [37.8 L] per min., 100 to 3000 PSI [6.9 to 207 bar] [7 to 211 Kg/ cm ²], set at 600 PSI [41 bar] [42 Kg/ cm ²])	1
12	06-090600		REDUCER/ EXPANDER (8-6 F5O G5-S)	2
13	06-096100		UNION (6 F50 F50-S)	1
14	06-050000		BRANCH TEE, MALE "O"-RING TO 37° (6 S5OX-S)	1
15	06-056000		BRANCH TEE, 37° FEMALE SWIVEL NUT (6 S6X-S)	1
16	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	1
17	219 9720		BRACKET, VALVE MOUNTING	1
18	07-003029		CAP SCREW, HEX HEAD (5/16"-18 x 2", Grade 5)	2
19	07-050015		NUT, LOCK (5/16"-18, Grade 5)	2
20	07-062015		WASHER, FLAT (5/16")	4
21	01-013800		VALVE, SHUTTLE	1
22	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	1
23	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S) (Later versions)	2
24	06-076800		LONG REDUCER/ EXPANDER, PIPE THREAD (4-2 FF-S)	1
25	01-212100		VALVE, FLOW CONTROL (Needle valve) (1/8" NPT)	1
26	06-211200		RUN TEE, MALE 37° TO NPT (4 RTX-S)	1
27	01-202200		MANIFOLD, CROSS PORT RELIEF	1
28	01-202201		CARTRIDGE, CROSS PORT RELIEF VALVE	2
29	06-207800		ADAPTER, SWIVEL NUT (8 F65OX)	2

TITLE MOTION CONTROL VALVE ASSEMBLY (PLATE 1 OF 2)

PLATE NO. C12.103 **SIMON AERIALS INC.**

REV. 20 FEB., 1997

PART NO.



Art # C12.10301E

TITLE

MOTION CONTROL VALVE ASSEMBLY (PLATE 1 OF 2)

SIMON AERIALS INC.

REV. 20 FEB., 1997

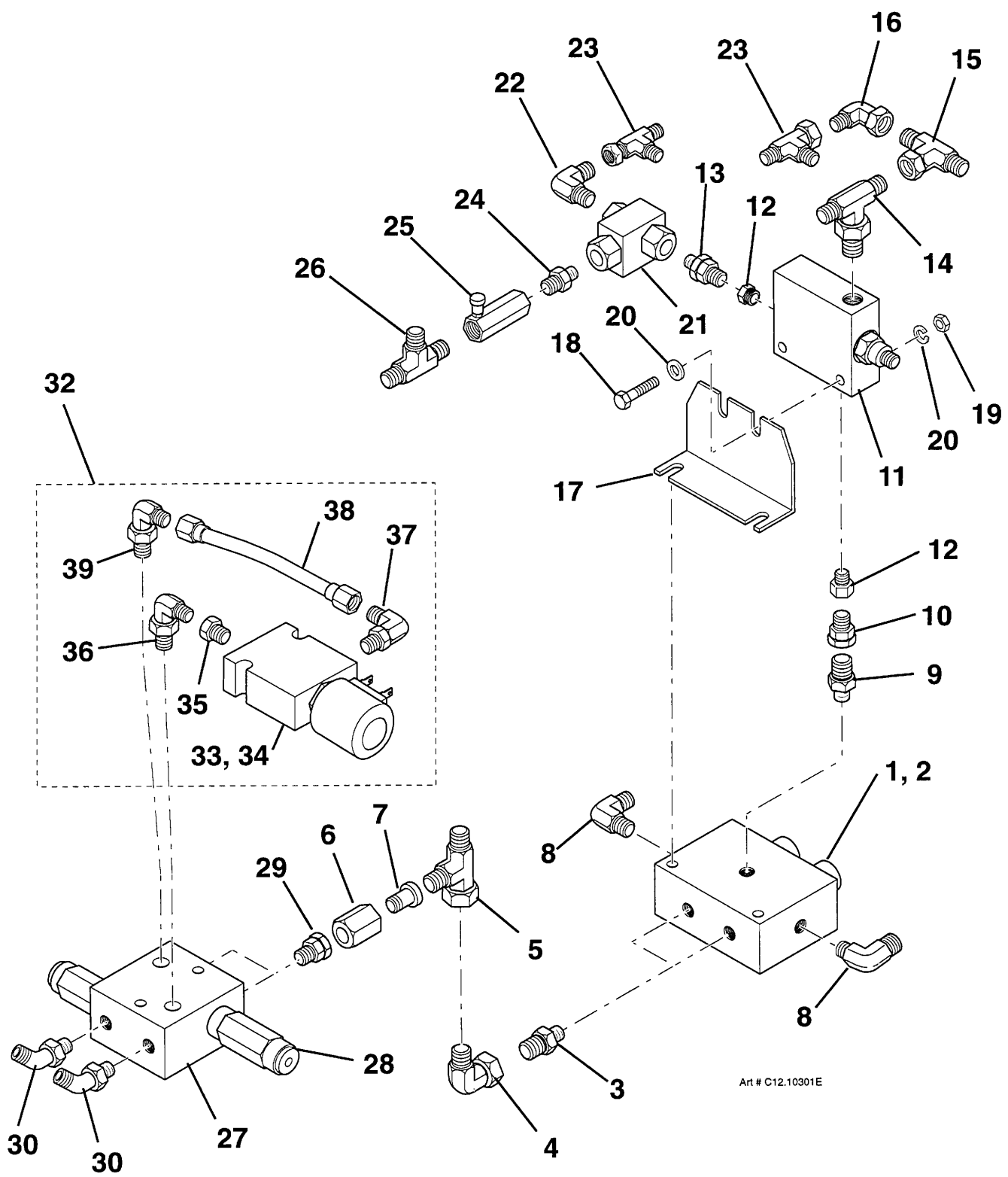
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PLATE
NO. **C12.103**

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PLATE NO.	C12.103	SIMON AERIALS INC.
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PART
NO.



Art # C12.10301E

TITLE MOTION CONTROL VALVE ASSEMBLY (PLATE 2 OF 2)

SIMON AERIALS INC.

REV. 20 FEB., 1997

PART
NO.

PLATE
NO. C12.103

PARTS LIST

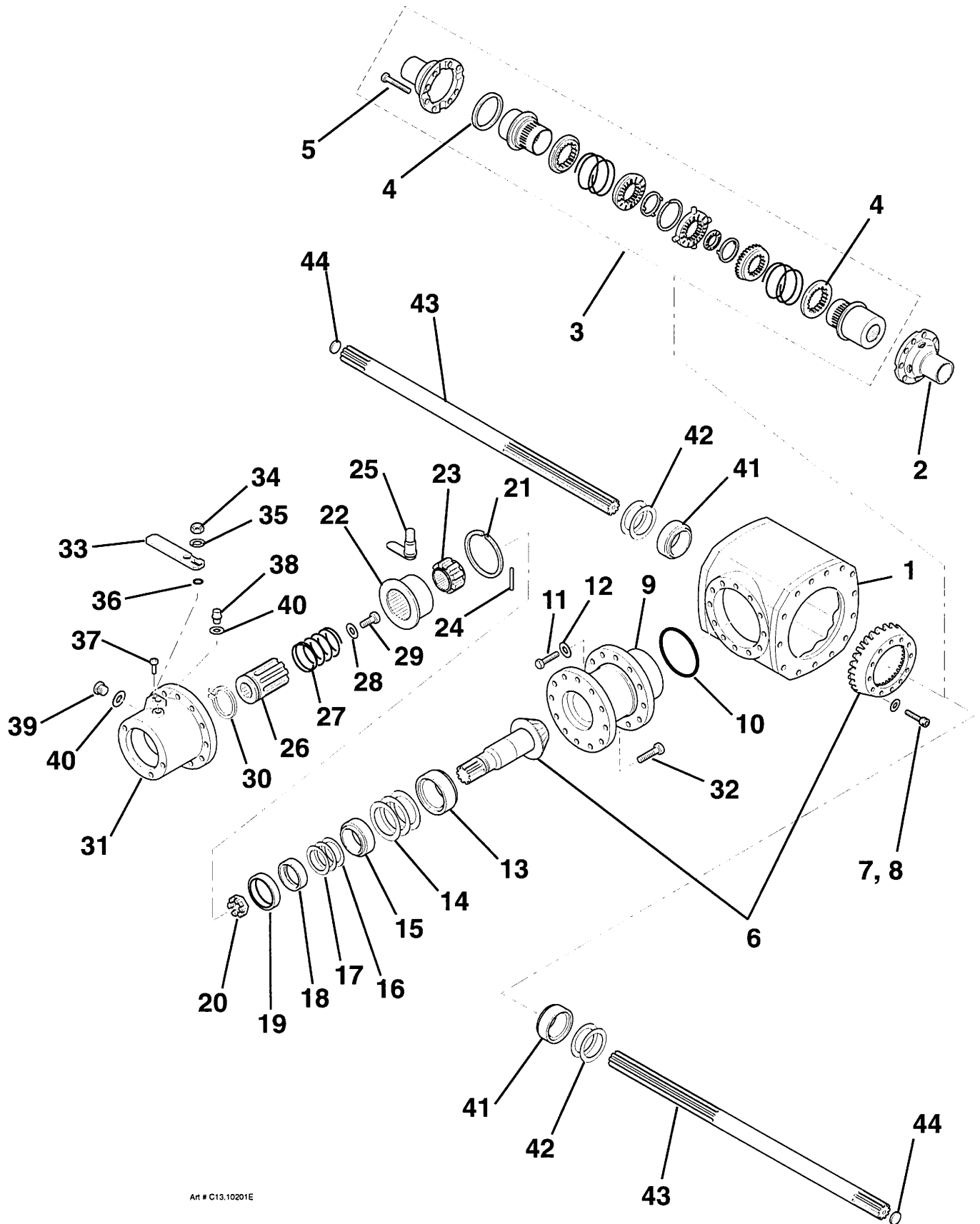
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	• 02-043400 02-039700		AXLE ASSEMBLY, REAR (Type 2) AXLE ASSEMBLY, REAR (superceded by 02-043400) Note: The "Type 2" axle is original equipment on Trailblazer 40, serial numbers APA 00122 and above; all Trailblazer 50 and 60, and all RP 46. This axle connects directly to the drive motor with no prop shaft. It can be identified by the model designation "418R" on a nameplate mounted on the left axle tube housing.	1
1	02-039664		HOUSING, AXLE DIFFERENTIAL	1
2	02-039742		CASE HALF, DIFFERENTIAL	1
3	• 02-039711		DIFFERENTIAL, "NO-SPIN" (includes washers)	1
4	02-039697		WASHER (Differential side gear)	2
5	02-039729		BOLT (Differential side gear)	8
6	02-039712		GEAR SET, AXLE RING AND PINION	1
7	02-039732		SHOULDER BOLT, RING GEAR (M 10 x 25 mm)	12
8	02-039603		WASHER, DIFFERENTIAL HOUSING	12
9	02-039743		HOUSING, PINION	1
10	02-039613		"O"-RING (Pinion housing)	1
11	02-039615		BOLT (Pinion flange)	10
12	02-039678		WASHER (Pinion flange)	24
13	02-039628		BEARING, TAPERED ROLLER (Pinion rear)	1
14	02-039666		SHIM, PINION BEARING (Rear)	3
	02-039667		SHIM, PINION BEARING (Rear)	3
15	02-039629		BEARING, TAPERED ROLLER (Pinion front)	1
16	02-039674		"O"-RING (Pinion front)	1
17	02-039747		SHIM, PINION BEARING (Front)	2
	02-039756		SHIM, PINION BEARING (Front)	2
	02-039757		SHIM, PINION BEARING (Front)	2
18	02-039748		SPACER, PINION SEAL	1
19	02-039661		SEAL, PINION OIL	1
20	02-039620		NUT, PINION LOCK RETAINING	1
21	02-039725		RING, RETAINING (Snap ring)	2
22	02-039761		SLEEVE, OUTER (Hydraulic motor disconnect)	1
23	02-039759		SLEEVE, ENGAGING (Hydraulic motor disconnect)	1
24	02-039683		PIN, SPLINED	1
25	02-039741		PIN, MOTOR DISCONNECT	1
26	02-039760		SLEEVE, INNER (Hydraulic motor disconnect)	1

TITLE REAR AXLE ASSEMBLY (TYPE 2), TRAILBLAZER, RP 46 (PLATE 1 OF 4)

PLATE NO. C13.102 **SIMON AERIALS INC.**

REV. 20 FEB., 1997

PART NO.



Art # C13.10201E

TITLE REAR AXLE ASSEMBLY (TYPE 2), TRAILBLAZER, RP 46 (PLATE 1 OF 4)

SIMON AERIALS INC.

REV. 20 FEB., 1997

PART
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NO. C13.102

PARTS LIST

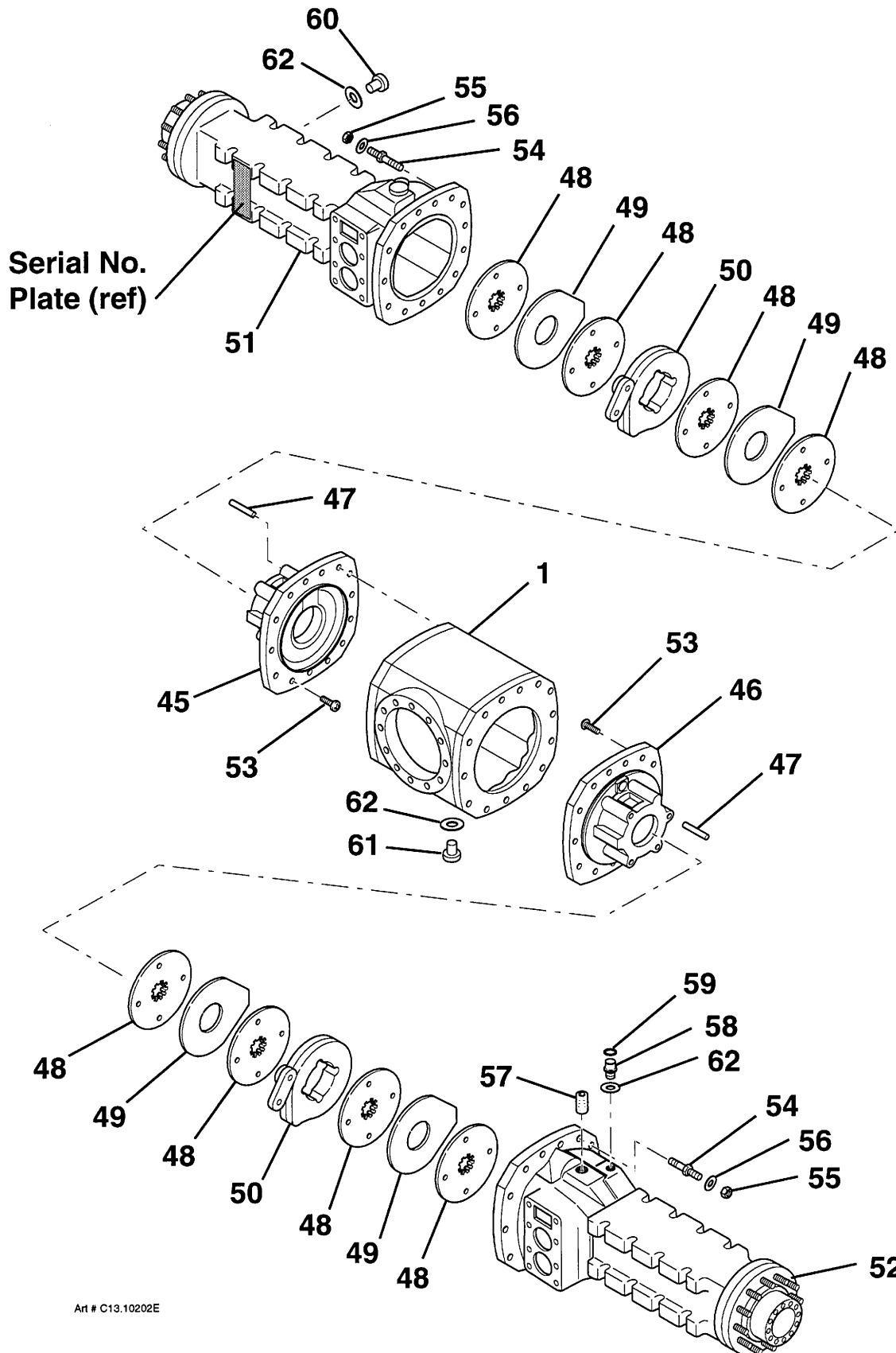
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
27	02-039764		SPRING	1
28	02-039749		SPACER	1
29			BOLT	1
30	02-039724		RING, RETAINING (Snap ring)	1
31	02-039739		HOUSING, HYDRAULIC MOTOR DISCONNECT	1
32	02-039615		BOLT, PINION FLANGE	18
33	02-039740		LEVER (Hydraulic motor disconnect)	1
34	02-039734		NUT	1
35	02-039728		WASHER, HELICAL LOCK	1
36	02-039723		"O"-RING	1
37	02-039731		BOLT (M 6 x 10 mm)	1
38	02-039737		BREATHER	1
39	02-039686		BOLT, OIL FILL	1
40	02-039668		WASHER	2
41	02-039623		BEARING, TAPERED ROLLER (Differential)	2
42	02-039624		SHIM, DIFFERENTIAL BEARING	4
	02-039625		SHIM, DIFFERENTIAL BEARING	4
43			AXLE SHAFT (Ref. plate on left axle tube housing)	
	02-039708		for axle with serial no. "00001/ 92 " thru "00031/ 92 " [Shaft is 773 mm (30.43") long]	2
	02-039707		for axle with serial no. "00032/ 92 " and up [Shaft is 783 mm (30.83") long]	2
44	02-039768		BUTTON, SHAFT STOP (Ref. plate on left axle tube housing) for axle with serial no. "00001/ 92 " thru "00031/ 92 "	2
45	02-039606		FLANGE, INTERMEDIATE (Left, when facing axle input)	1
46	02-039607		FLANGE, INTERMEDIATE (Right, when facing axle input)	1
47	02-039690		PIN, DOWEL	6
48	02-039610		DISC, BRAKE	8
49	02-039609		DISC, INTERMEDIATE	4
50	02-039608		ACTUATOR, BRAKE	2
51	02-039601		HOUSING, AXLE TUBE (Left, when facing axle input)	1
52	02-039612		TUBE, AXLE (Right, when facing axle input)	1
53	02-039662		BOLT, BRAKE (M 8 x 14 mm)	4
54	02-039605		SHOULDER BOLT (Double threaded)	24
55	02-039602		NUT (Axle tube)	24
56	02-039603		WASHER, DIFFERENTIAL HOUSING	24
57	02-039733		PIN, LOCATING	1
58	02-039736		PLUG, BREATHER	1
59	02-039722		"O"-RING	1
60	02-039685		PLUG (Axle tube oil filler)	1
61	02-039684		PLUG (Oil drain)	3
62	02-039669		WASHER	5

TITLE REAR AXLE ASSEMBLY (TYPE 2), TRAILBLAZER, RP 46 (PLATE 2 OF 4)

PLATE NO. **C13.102** **SIMON AERIALS INC.**

REV. 20 FEB., 1997

PART NO.



Art # C13.10202E

TITLE REAR AXLE ASSEMBLY (TYPE 2), TRAILBLAZER, RP 46 (PLATE 2 OF 4)

SIMON AERIALS INC.

REV. 20 FEB., 1997

PART
NO.

PLATE
NO. C13.102

PARTS LIST

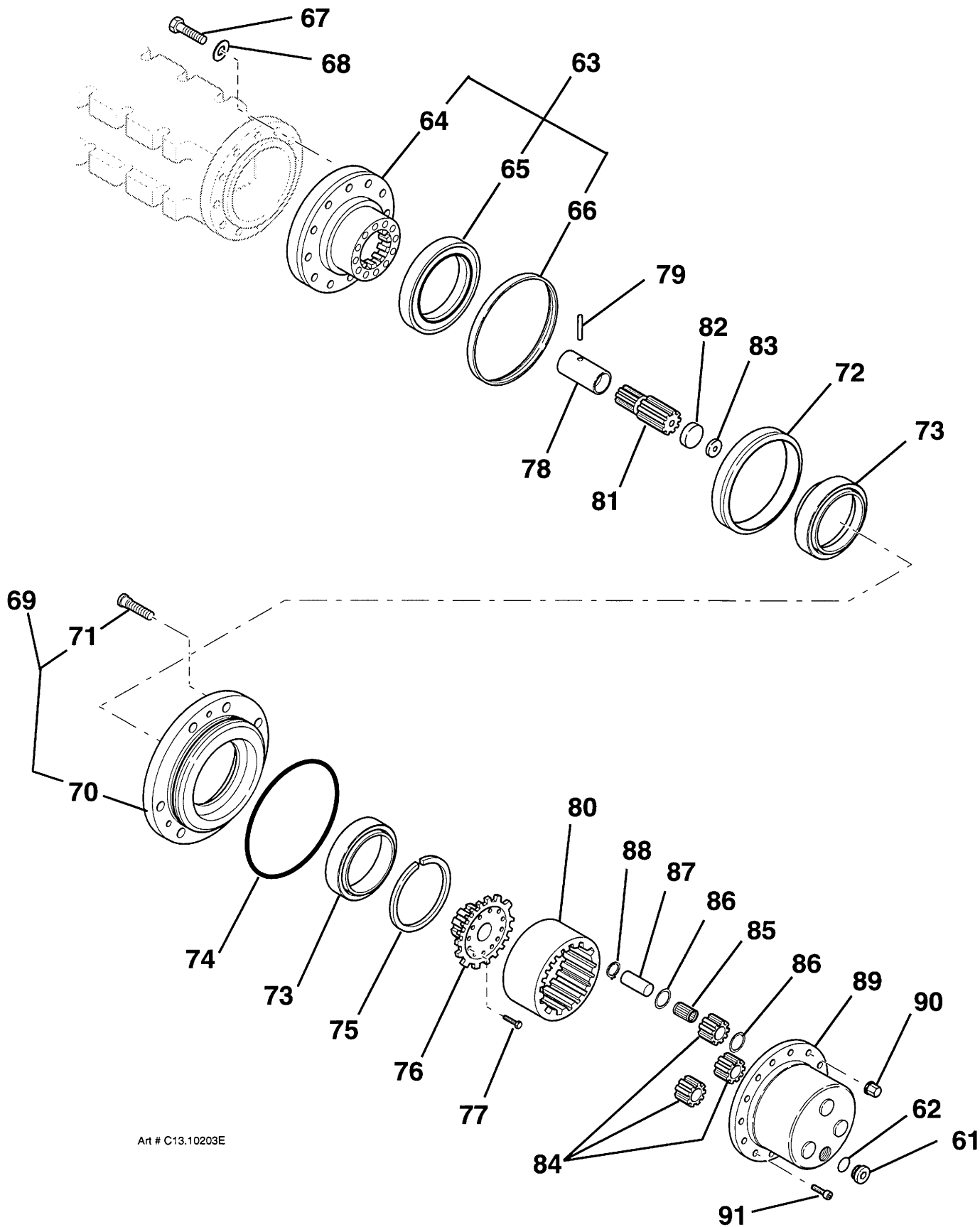
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
63	02-039713		SUPPORT ASSEMBLY, WHEEL HUB	2
64			SUPPORT, WHEEL HUB	1
65	02-039709		RING, OIL SEAL	1
66	02-039710		COVER, DUST	1
67	02-039706		BOLT (Wheel flange) (M 14 x 40 mm)	24
68	02-039678		WASHER (Wheel flange)	24
69			HUB ASSEMBLY, REAR WHEEL (Ref. plate on left axle tube housing)	
	02-039754		for axle with serial no. "00001/ 92" thru "00066/ 92"	2
	02-039752		for axle with serial no. "00067/ 92" and up	2
70			HUB, REAR WHEEL	1
71			STUD, WHEEL (Ref. plate on left axle tube housing)	
	02-039703		for axle with serial no. "00001/ 92" thru "00066/ 92"	8
	02-039705		for axle with serial no. "00067/ 92" and up	8
72	02-039702		SEAL, OIL	2
73	02-039640		BEARING, TAPERED ROLLER	4
74	02-039701		"O"-RING (Wheel hub)	2
75	02-039726		RING, STOP	2
76	02-039766		FLANGE, ANNULUS	2
77	02-039704		BOLT (M 10 x 35 mm)	24
78	02-039758		SLEEVE, HALF SHAFT	2
79	02-039738		ROLL PIN (for axle with serial no. "00032/ 92" and up) (Ref. plate on left axle tube housing)	2
80	02-039718		GEAR, INTERNAL	2
81	02-039720		GEAR, SUN	2
82	02-039716		BUTTON, SHAFT STOP	2
83	02-039715		SHIM, SHAFT STOP	2
84	02-039719		GEAR SET, PLANET (set of three matched gears)	2
85	02-039721		BEARING, ROLLER	6
86	02-039767		WASHER	12
87	02-039717		PIN, PLANET GEAR	6
88	02-039611		RING, RETAINING (Snap ring)	6
89	02-039714		CARRIER, PLANETARY	2
90	02-039735		NUT	16
91	02-039730		BOLT (M 10 x 20 mm)	4

TITLE REAR AXLE ASSEMBLY (TYPE 2), TRAILBLAZER, RP 46 (PLATE 3 OF 4)

PLATE NO. **C13.102** **SIMON AERIALS INC.**

REV. 20 FEB., 1997

PART NO.



TITLE REAR AXLE ASSEMBLY (TYPE 2), TRAILBLAZER, RP 46 (PLATE 3 OF 4)

SIMON AERIALS INC.

REV. 20 FEB., 1997

PART
NO.

PLATE
NO. C13.102

PARTS LIST

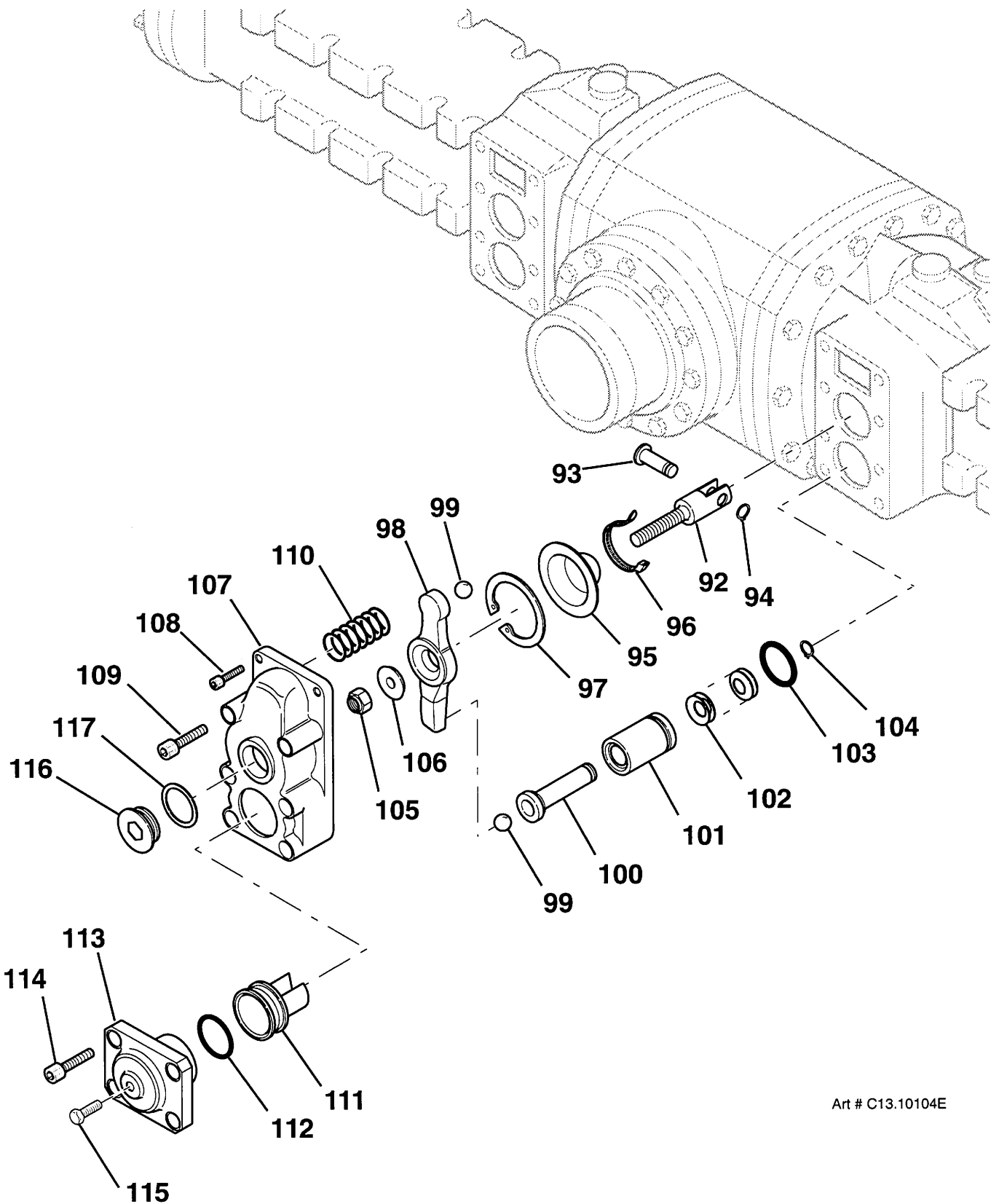
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
92	02-039655		LEVER, BRAKE FORK	2
93	02-039654		PIN, BRAKE PULL	2
94	02-039676		RING, RETAINING (Snap ring)	2
95	02-039653		BOOT, BRAKE (Bellows)	2
96	02-039769		CLAMP, BRAKE (Brake actuator)	2
97	02-039677		RING, RETAINING (Bellows snap ring)	2
98	02-039688		LEVER, FAIL SAFE BRAKE ACTUATING	2
99	02-039652		BALL, FAIL SAFE BRAKE ACTUATOR	4
100	02-039691		PIN, ACTUATING (Fail safe brake)	2
101	02-039693		RETAINER, SPRING (Fail safe brake)	2
102	02-039763		WASHER, SPRING (Belleville washer)	36
103	02-039659		"O"-RING (Fail safe brake)	2
104	02-039672		RING, RETAINING (Snap ring)	2
105	02-039649		NUT, BRAKE ADJUSTMENT	2
106	02-039665		WASHER, SPHERICAL	2
107	02-039656		COVER, BRAKE	2
108	02-039647		BOLT, HEX SOCKET HEAD (M 10 x 30 mm)	4
109	02-039642		BOLT, HEX SOCKET HEAD (M 10 x 60 mm)	4
110	02-039762		SPRING, SERVICE BRAKE	2
111	02-039658		PISTON, FAIL SAFE BRAKE	2
112	02-039657		"O"-RING (Fail safe brake piston)	2
113	02-039689		FLANGE, FAIL SAFE BRAKE	2
114	02-039663		BOLT (M 10 x 85 mm) (Fail safe brake flange)	8
115	02-039681		BOLT, RELEASE (Fail safe brake)	2
116	02-039687		PLUG (Service brake)	2
117	02-039670		GASKET, (Service brake plug)	2
			The following items are not part of Axle Assembly 02-043400:	
118	07-096800		"U"-BOLT KIT (7/8"-24)	4
119	06-210800		MALE CONNECTOR, STRAIGHT THREAD (#4, M10-1.25mm, 7/16"-20) (for brake port)	2
120	06-051300		ELBOW, SWIVEL NUT (4 C6X-S)	2

TITLE REAR AXLE ASSEMBLY (TYPE 2), TRAILBLAZER, RP 46 (PLATE 4 OF 4)

PLATE NO. **C13.102** **SIMON AERIALS INC.**

REV. 20 FEB., 1997

PART NO.



Art # C13.10104E

TITLE REAR AXLE ASSEMBLY (TYPE 2), TRAILBLAZER, RP 46 (PLATE 4 OF 4)

SIMON AERIALS INC.

REV. 20 FEB., 1997

PART
NO.

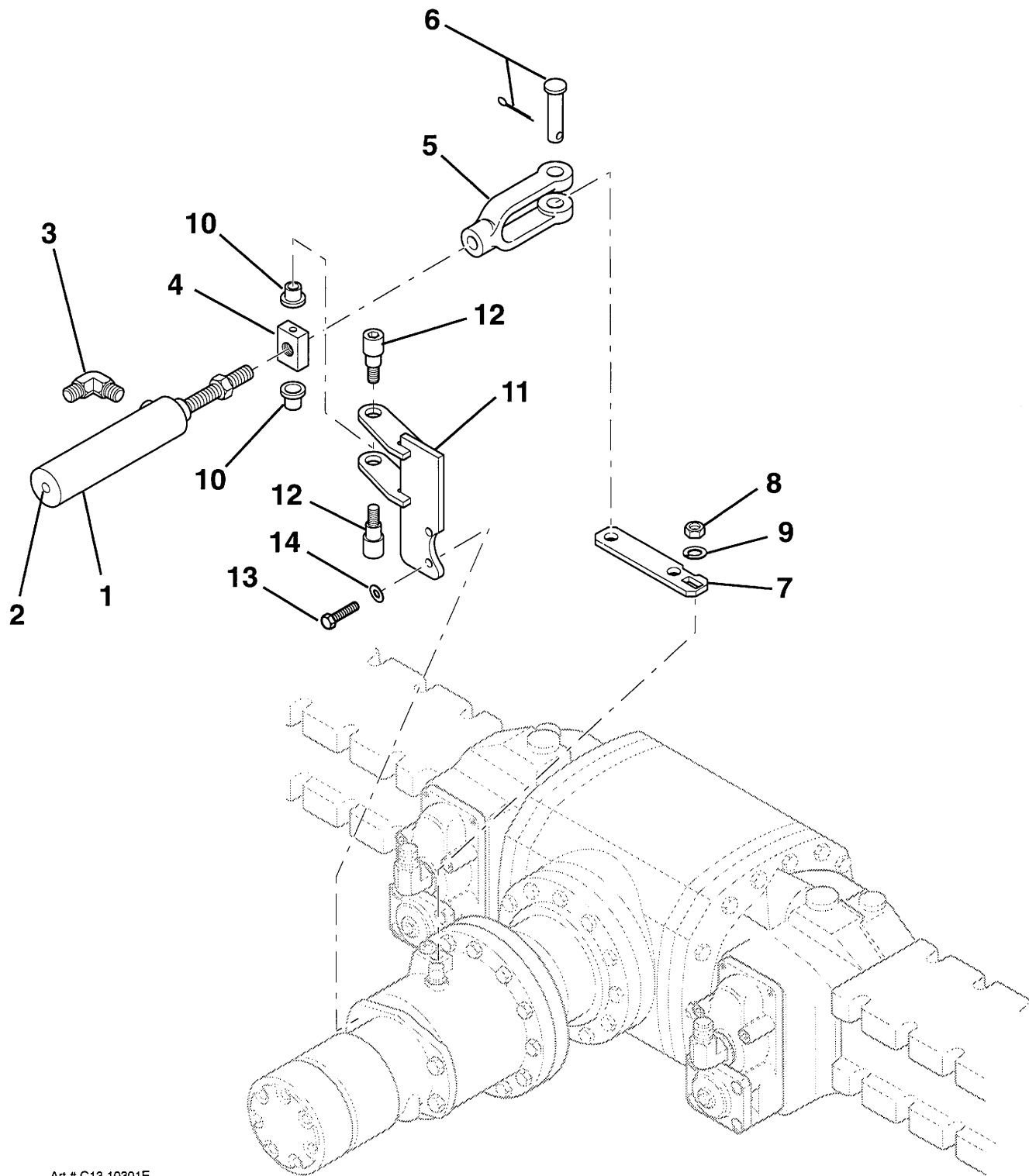
PLATE
NO. C13.102

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C13.103

SIMON AERIALS INC.

3533110



Art # C13.10301E

TITLE REAR AXLE DRIVE MOTOR DISCONNECT ASSEMBLY

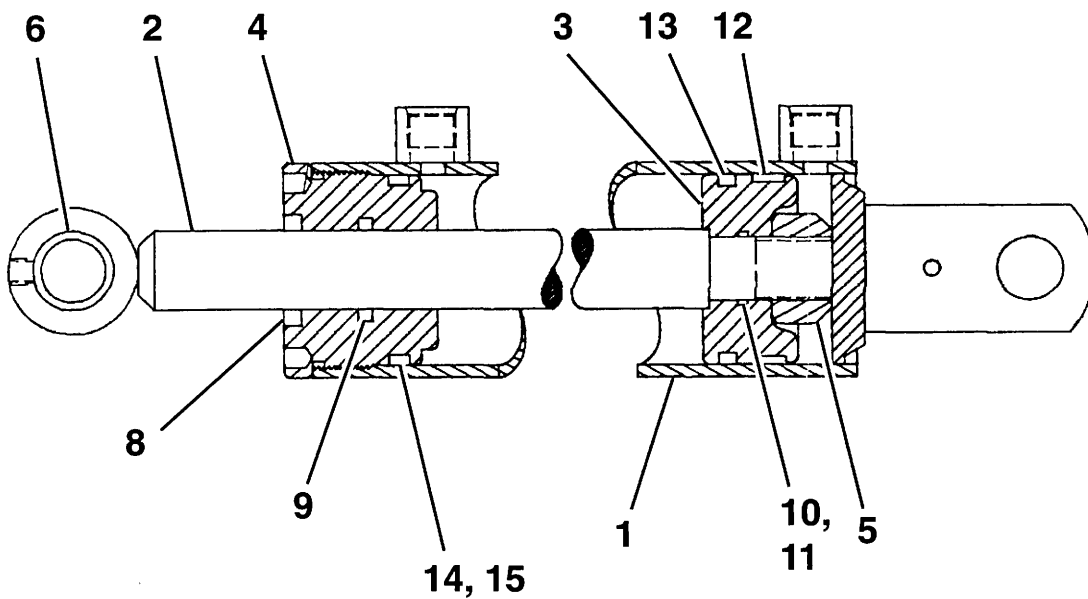
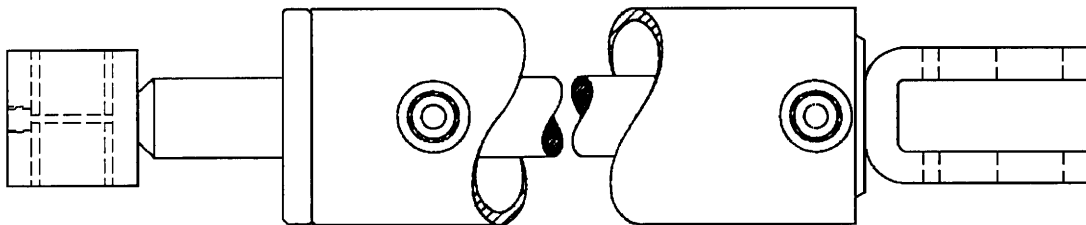
SIMON AERIALS INC.

REV. 11 MAR., 1994

PART NO. 3533110

PLATE NO. C13.103

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TITLE

STEER CYLINDER, 10" (25.4 CM) STROKE

SIMON AERIALS INC.

NEW 07 JAN., 1993

PART
NO.

04-035200

PLATE
NO.

D01.101

PARTS LIST

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

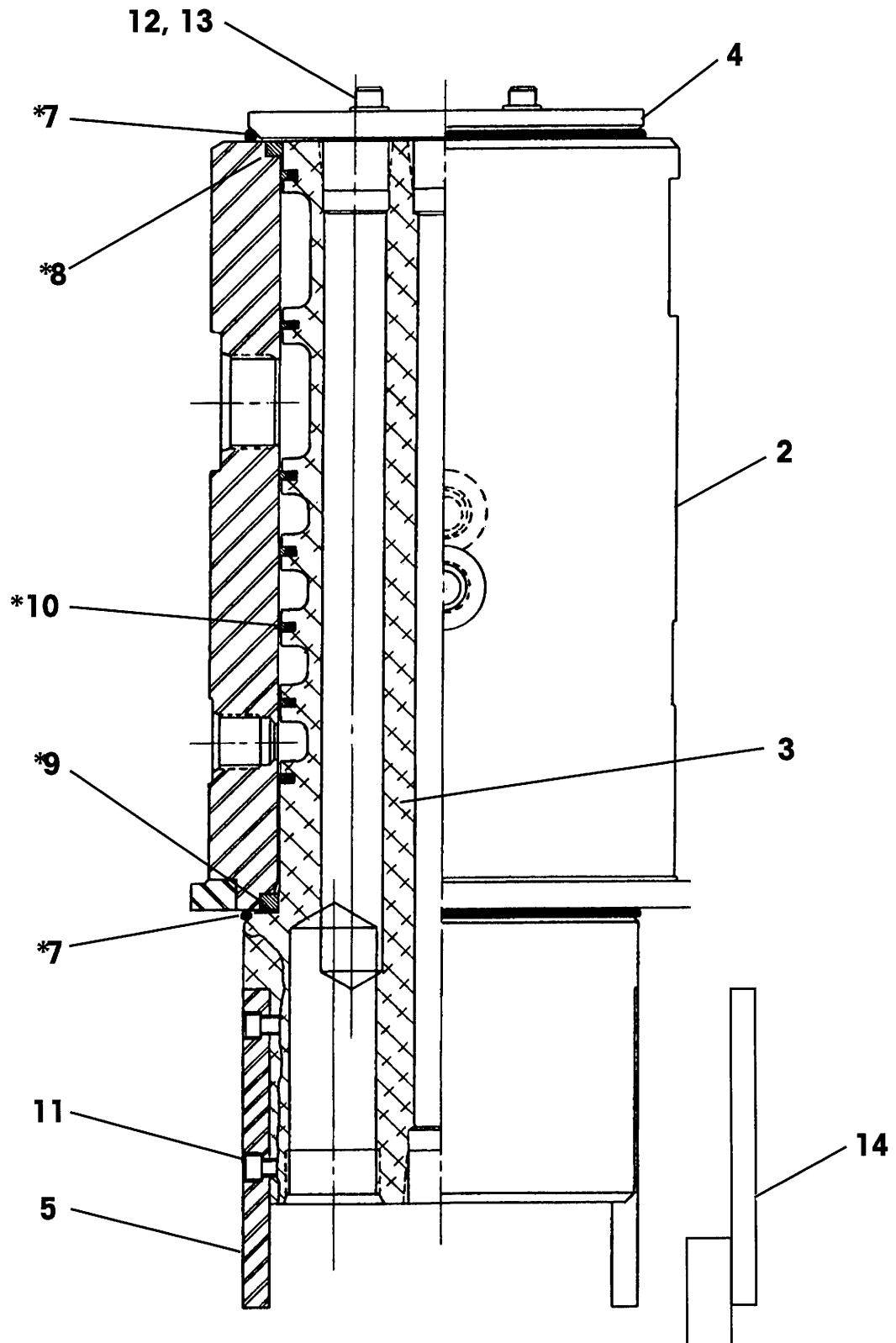
TITLE

HYDRAULIC SWIVEL

SECTION **D02.** PLATE NO. **01** PAGE **01**

REV. - DATED 22 APR., 1996 PART NO.

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



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



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TITLE

HYDRAULIC SWIVEL

PART
NO.

REV.
-

DATED
22 APR., 1996

SECTION

D02.

PLATE NO.

01

PAGE

01

PARTS LIST

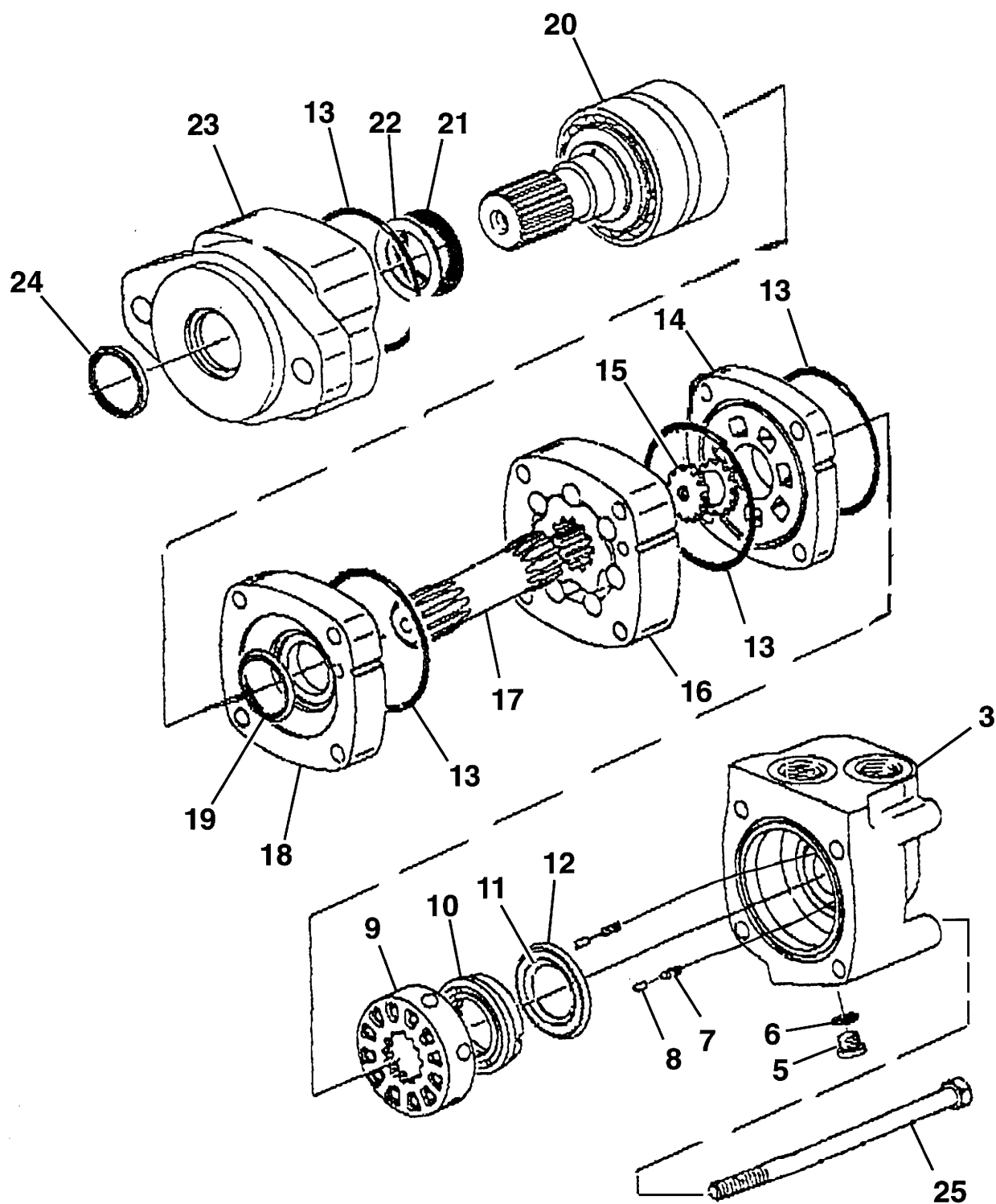
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-221901		SEAL KIT, MOTOR Note: items in kit identified by asterisk (*)	1
2	01-221900		MOTOR ASSEMBLY (Motor I.D. tag reads "104 1216 - - -") (4.9 c.i. [80 cc]/ rev. displacement)	1
3			HOUSING ASSEMBLY, VALVE	1
4			PLUG ASSEMBLY	2
5			PLUG	1
6		*	"O"-RING	1
7			SPRING	2
8			SCREW	2
9			VALVE	1
10			RING, BALANCE (with pins)	1
11		*	"O"-RING	1
12		*	RING, BACKUP	1
13		*	SEAL	4
14			PLATE, VALVE	1
15			DRIVE, VALVE	1
16			GEROTOR	1
17			SHAFT, DRIVE	1
18			PLATE, WEAR	1
19		*	SEAL, SHAFT FACE	1
20		*	SHAFT AND BEARING ASSEMBLY (1-1/4" splined)	1
21		*	SEAL, SHAFT	1
22		*	RING, BACKUP	1
23			HOUSING, BEARING (SAE "A" 2 bolt mount)	1
24		*	SEAL, DUST (1-9/16" [40 mm])	1
25			BOLT, HEX HEAD	4

TITLE WHEEL MOTOR ASSEMBLY (FRONT)

PLATE NO. D03.103 **SIMON AERIALS INC.**

NEW 18 OCT., 1993

PART NO. 01-221900



TITLE

WHEEL MOTOR ASSEMBLY (FRONT)

SIMON AERIALS INC.

NEW 18 OCT., 1993

PART
NO.

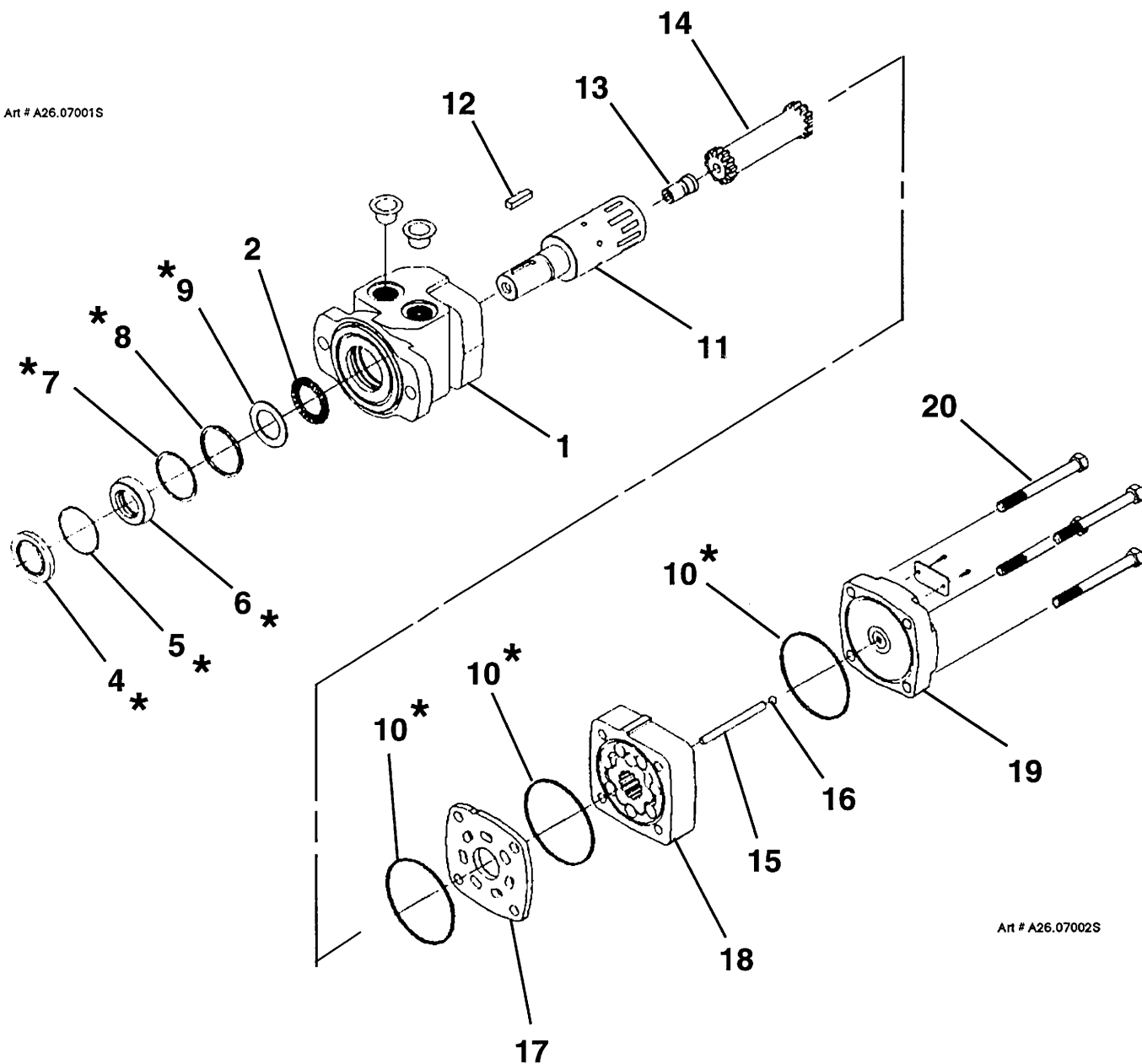
01-221900

PLATE
NO.

D03.103

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Art # A26.07001S



Art # A26.07002S

TITLE

SWING MOTOR

SIMON AERIALS INC.

NEW 28 DEC., 1992

PART
NO.

01-210200

PLATE
NO.

D06.101

PARTS LIST

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

TITLE

EMERGENCY PUMP

SECTION

D07.

PLATE NO.

101

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REV.

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DATED

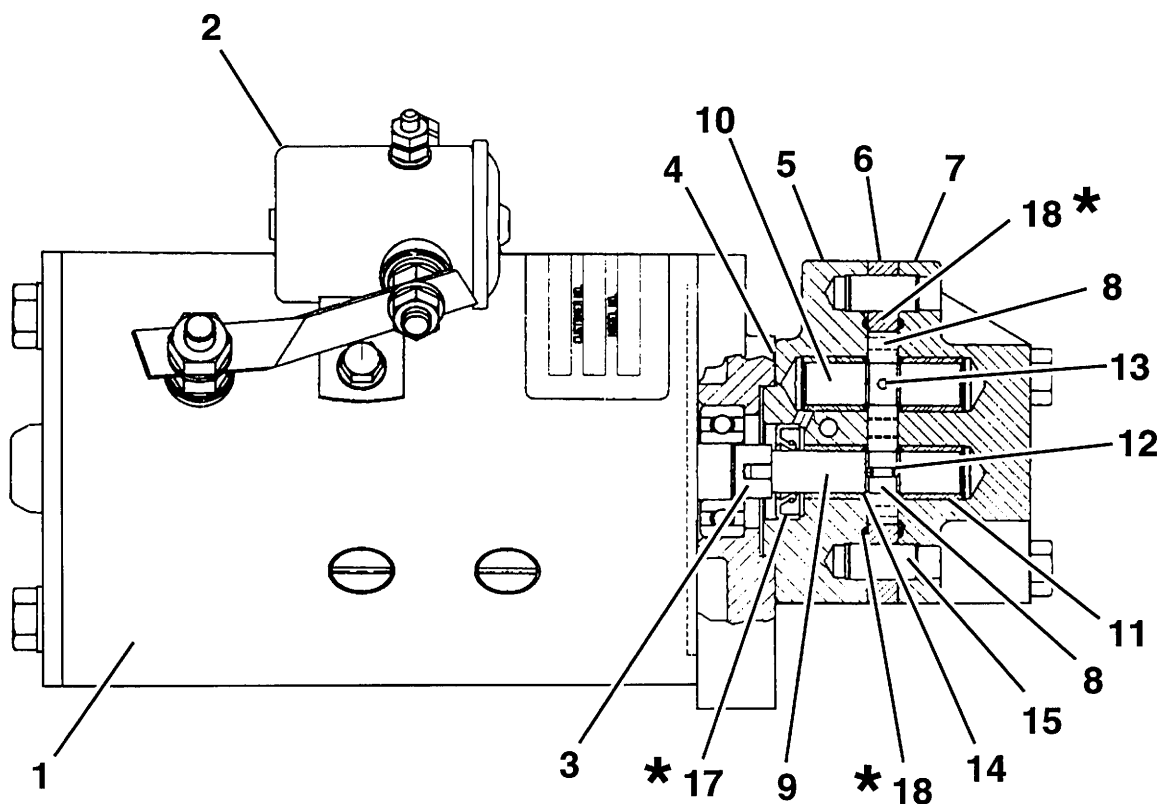
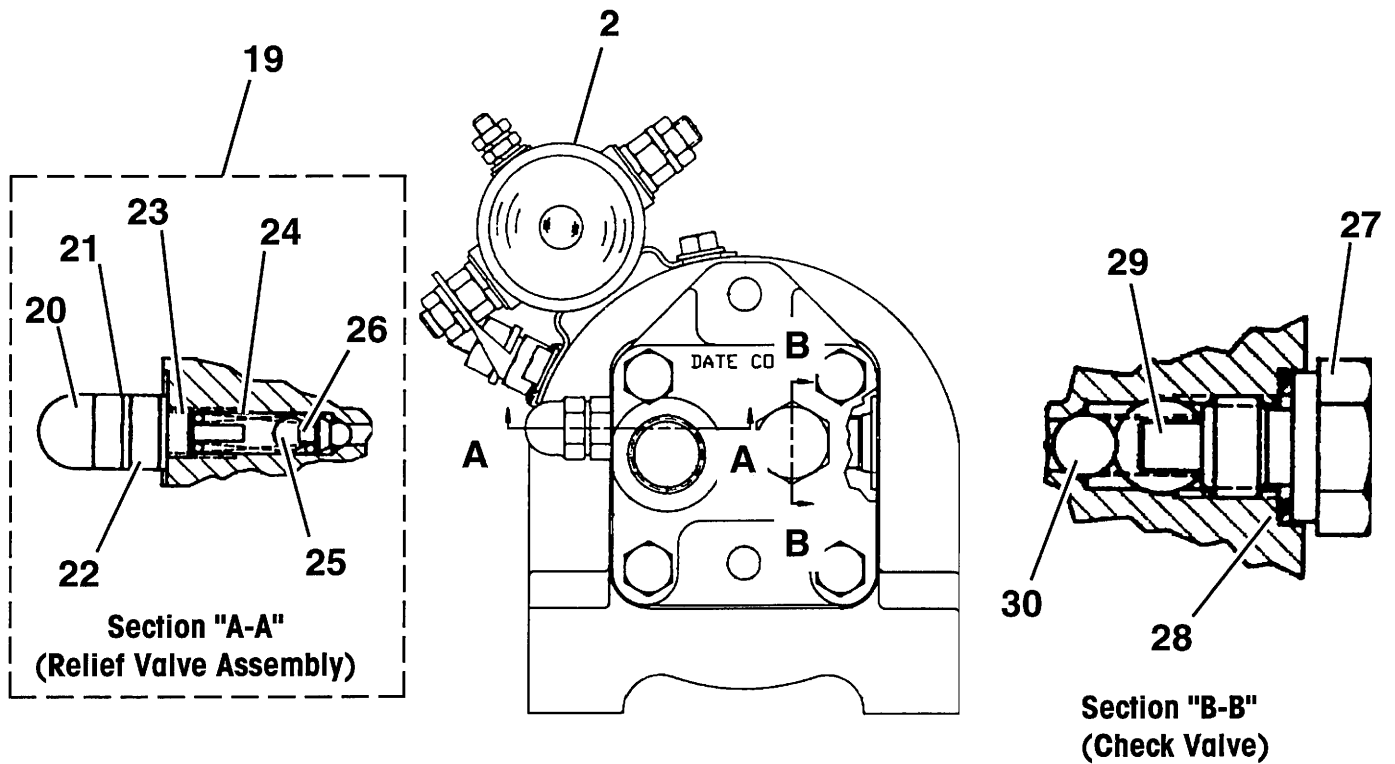
08 SEP., 1995

PART NO.

01-224 900



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TITLE

EMERGENCY PUMP

PART NO. 01-224 900

REV. -

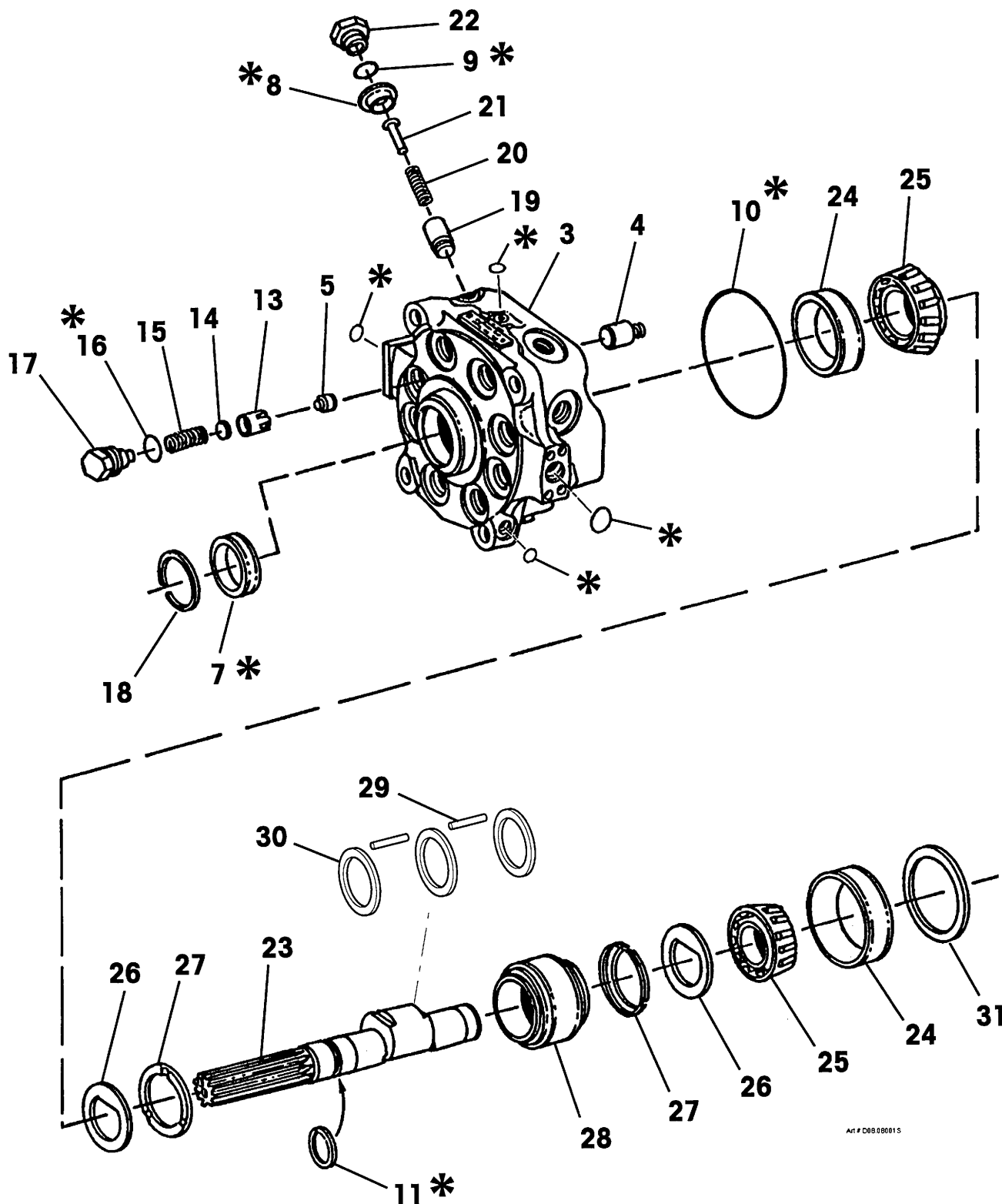
DATED 08 SEP., 1995

SECTION D07.

PLATE NO. 101

PAGE 01

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-206900		PUMP ASSEMBLY, HYDRAULIC Note: These are "Type 2" pumps, with unitized control valve design. HPR 40 (marked "**ROPV 312 XXXXXX*" and "24 71 R11531")	1
2	01-019500 01-018700		HPR 50 (marked "**ROPV 322 XXXXXX*" and "24 72 R11531") HPR 65 (marked "**ROPV 332 XXXXXX*" and "24 73 R11531") 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
	01-019506 01-018708		for Model HPR 40 for Model HPR 50 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) SHIM (0.25 mm)	A.R. A.R.
TITLE			HYDRAULIC PUMP ASSEMBLY	
SECTION	D08.	PLATE NO. 13	PAGE 01	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				



Art # D08.00015

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TITLE

HYDRAULIC PUMP ASSEMBLY

PART
NO.

REV.

A

DATED

08 OCT., 1996

SECTION

D08.

PLATE NO.

13

PAGE

01

PARTS LIST

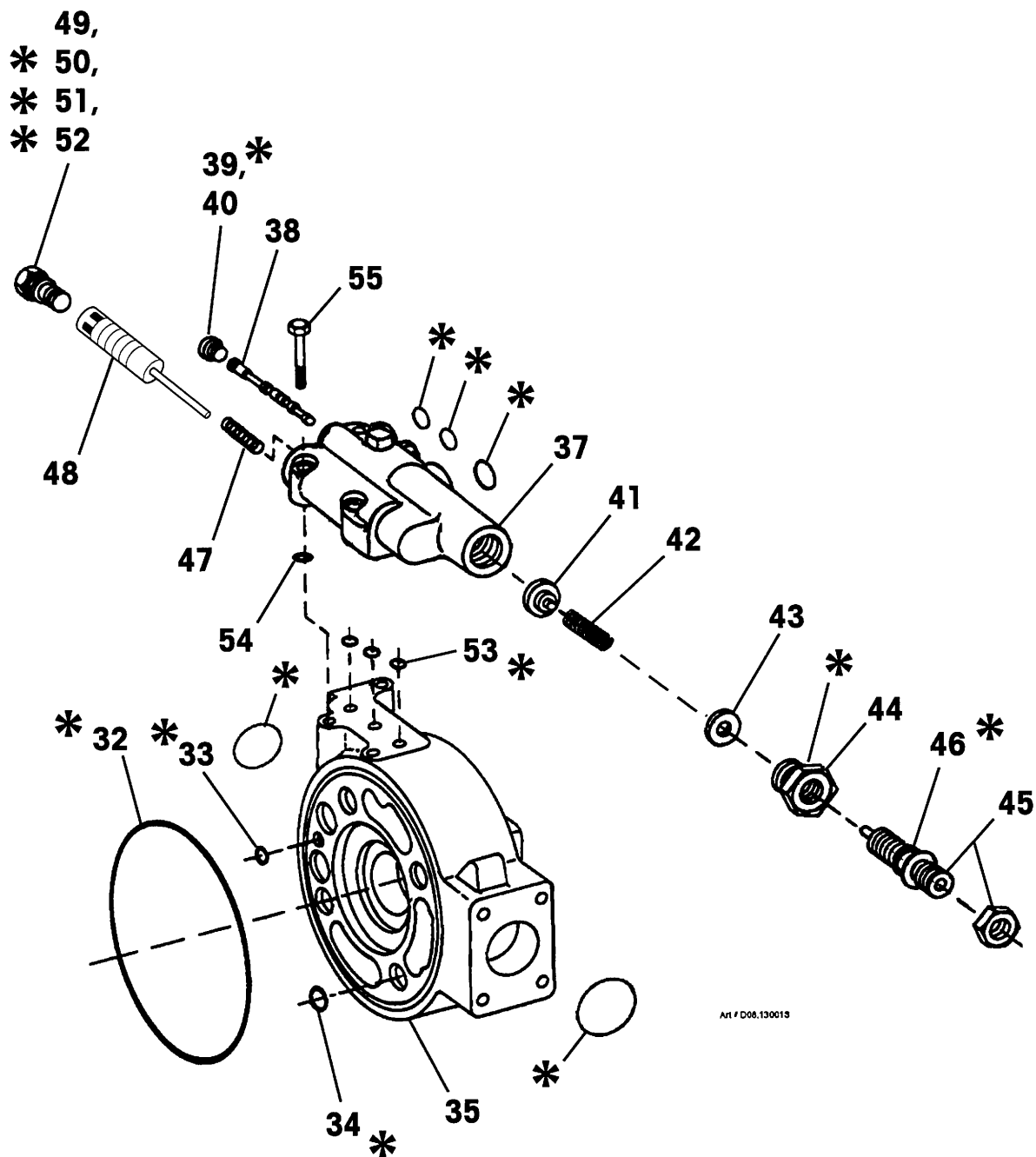
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
6	01-018707		SEAL KIT (components indicated by asterisks, page 1 and 2)	1
32	01-018711	*	PACKING, INLET HOUSING TO PUMP HOUSING	1
33		*	PACKING, HIGH PRESSURE PASSAGE	1
34		*	PACKING, BOLT PASSAGE	4
35			HOUSING, PUMP INLET	1
36	01-019502		VALVE ASSEMBLY, CONTROL	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.

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Alt # D08.130015

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TITLE

HYDRAULIC PUMP ASSEMBLY (UNITIZED CONTROL VALVE)

PART
NO.

REV.

A

DATED

08 OCT., 1996

SECTION

D08.

PLATE NO.

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PARTS LIST

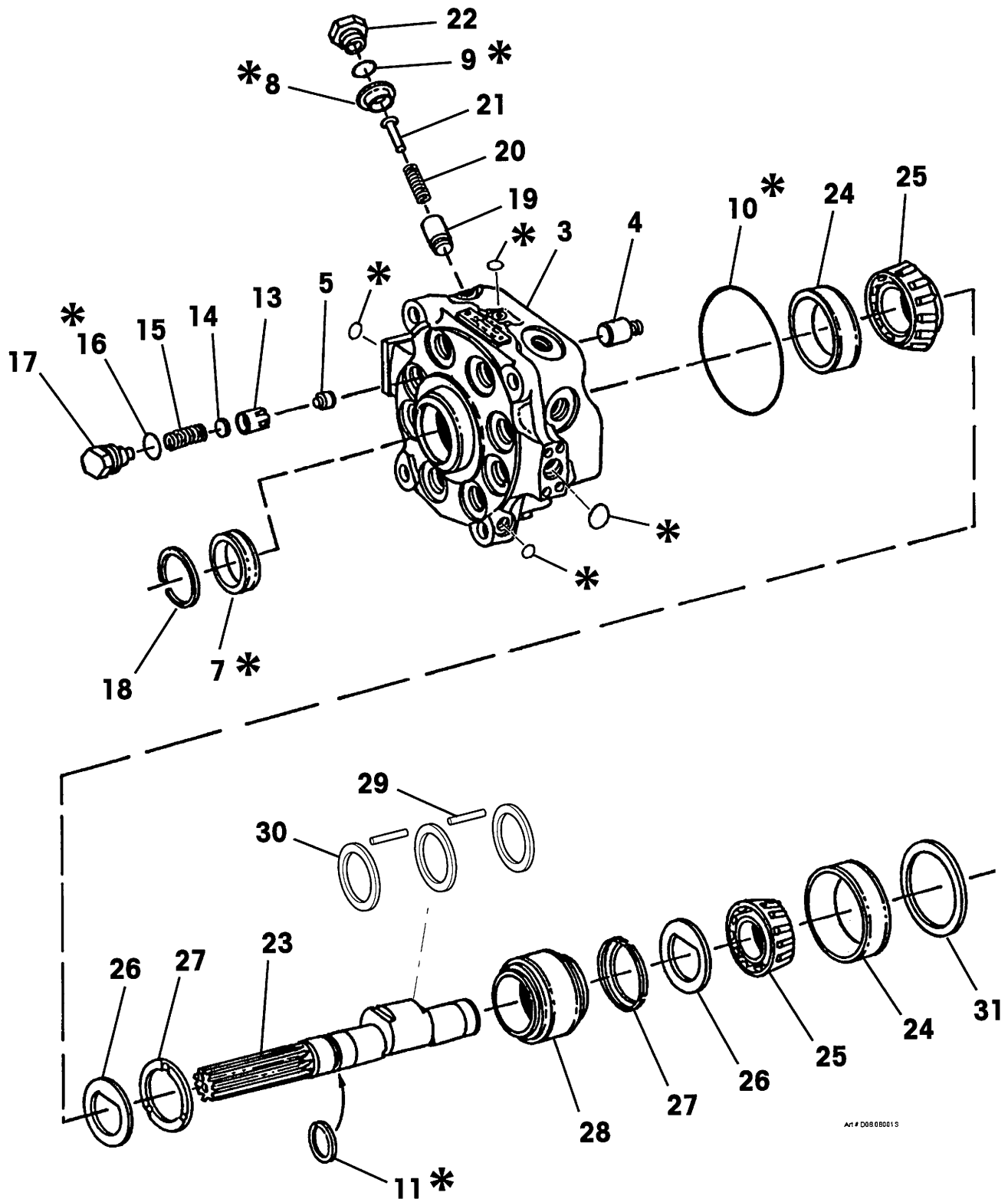
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items are not included with the Hydraulic Pump:	
			Suction Fittings:	
56	06-214400		FLANGE, SUCTION FITTING (2" SAE flange) (32 CFHC) (includes two halves and mounting hardware)	1
57	06-216100 06-196900		FITTING, SUCTION 90°, 2" stem to 2" hose (32 C4-32 FL90) 90°, 2" SAE flange to 2" hose (23867-32-32 FC) (Obsolete. Use 06-216100 and 06-214400.)	1
	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 06-195600		45°, 2" stem to 1-1/2" hose (24-32 FL45) 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 06-215700 06-202100		(16 FL5K-12MJ90) (16 FL5K-16MJ90) FITTING, COMPANION FLANGE (L1-16-16S-30) (Obsolete. Use 06-213800 and 06-213900.)	
61	06-195800 06-215800		FITTING KIT, FLANGE (SAE #16, 4 bolt) (5151 HK-16) (Obsolete.) 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.

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Art # D08080013

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TITLE

HYDRAULIC PUMP ASSEMBLY

PART NO.

REV.

A

DATED

08 OCT., 1996

SECTION

D08.

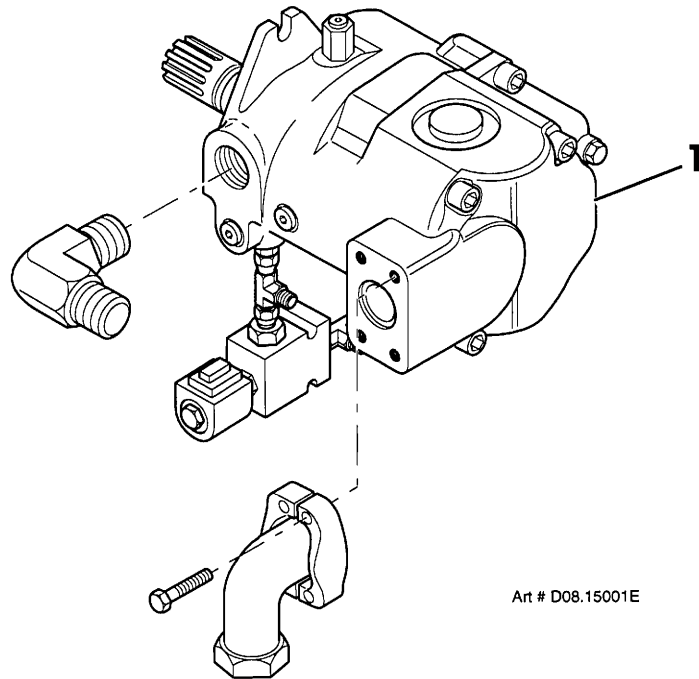
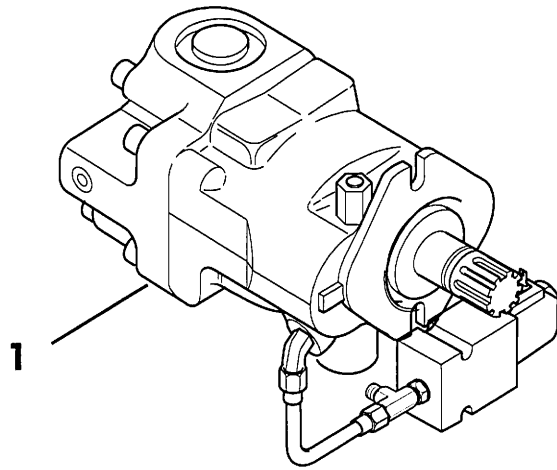
PLATE NO.

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Art # D08.15001E



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TITLE

HYDRAULIC PUMP ASSEMBLY

PART
NO.

REV.
-

DATED
24 JAN., 1996

SECTION

D08.

PLATE NO.

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PAGE

01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	231 2890		CYLINDER, BOOM LIFT Type 1. Cylinder can be identified by the numbers "427229" and "04037400SH" stamped on a plate on the cylinder case, opposite the tube.	
	04-038800		Type 2. Cylinder can be identified by the numbers "429468A" and either "04037400SH" or "04038800SH" stamped on a plate on the cylinder case, opposite the tube.	
	04-054200		Type 3. Cylinder can be identified by the numbers "04054200SH" stamped on a plate on the cylinder case, opposite the tube.	
			When ordering a replacement cylinder, " Type 3 " will be supplied.	
1			CASE WELDMENT, CYLINDER	1
2	No Part #		ROD WELDMENT, CYLINDER (for " Type 1 " Cylinder)	1
	04-037404		ROD WELDMENT, CYLINDER (for " Type 2 " Cylinder)	1
	No Part #		ROD WELDMENT, CYLINDER (for " Type 3 " Cylinder)	1
3	04-037403		PISTON (for " Type 1 " Cylinder)	1
	04-038802		PISTON (for " Type 2 " Cylinder)	1
	No Part #		PISTON (for " Type 3 " Cylinder)	1
4			GLAND, HEAD	1
5			NUT, LOCK	1
6	04-037402		BUSHING	2
7	04-037401		SEAL KIT (for " Type 1 " or " Type 2 " Cylinder)	1
	04-054201		SEAL KIT (for " Type 3 " Cylinder)	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			RING, ROD WEAR	3
11			"O"-RING	1
12			RING, BACKUP	1
13			RING, PISTON WEAR	2
14			"O"-RING	1
15			SEAL, PISTON	1
16			"O"-RING	1
17			WASHER, BACKUP	1
18			SPACER (for " Type 2 " Cylinder)	1
19			VALVE, COUNTERBALANCE (pre-set at 3,900 PSI [268.9 Bar] [274.2 Kg/ cm ²])	1
	04-035003		for " Type 1 " Cylinder. Valve is stamped "CBCA-LHN"	
	04-038801		for " Type 2 " or " Type 3 " Cylinder. Stamped "CBCA-CHN"	
20	08-078800		BEARING (Aluminum bronze, 1.5" I.D., 2.0" O.D., 1.5" long)	2

TITLE

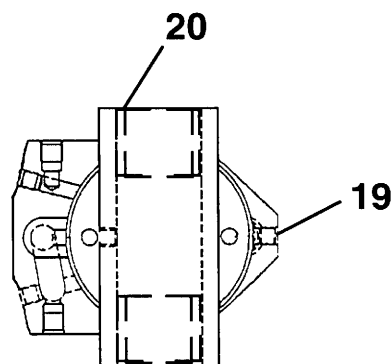
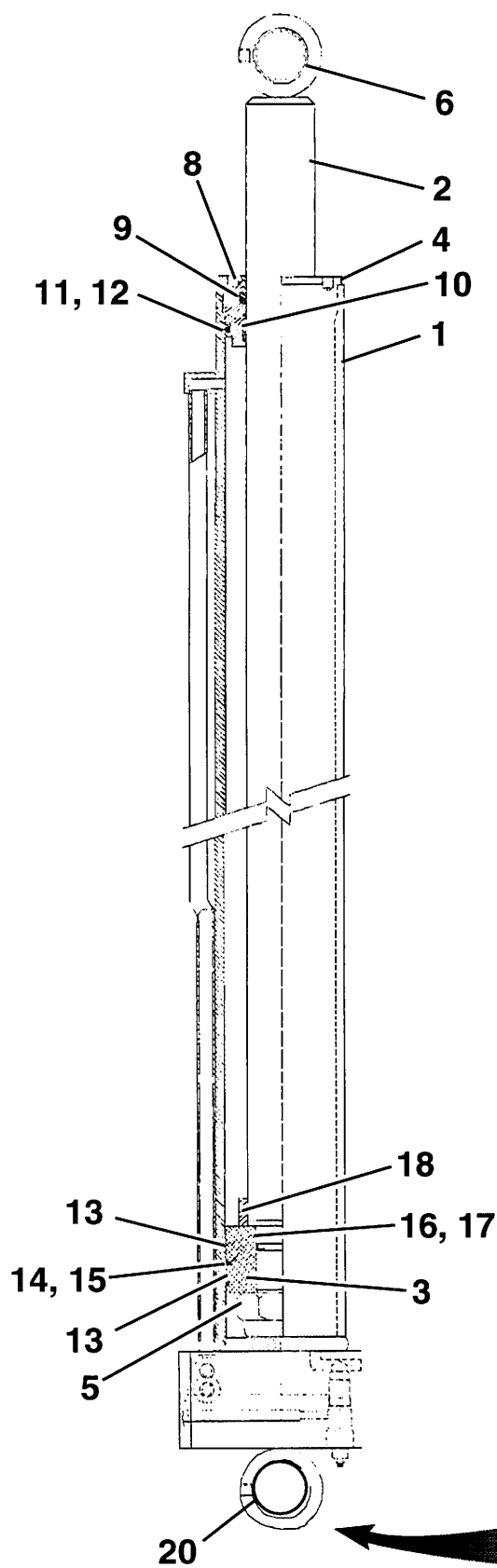
LIFT CYLINDER, 44-1/4" (1.12 M) STROKE

PLATE NO. D09.102

SIMON AERIALS INC.

REV. 20 FEB., 1997

PART NO.



**View of Base End
of Cylinder**

TITLE

LIFT CYLINDER, 44-1/4" (1.12 M) STROKE

SIMON AERIALS INC.

REV. 20 FEB., 1997

**PART
NO.**

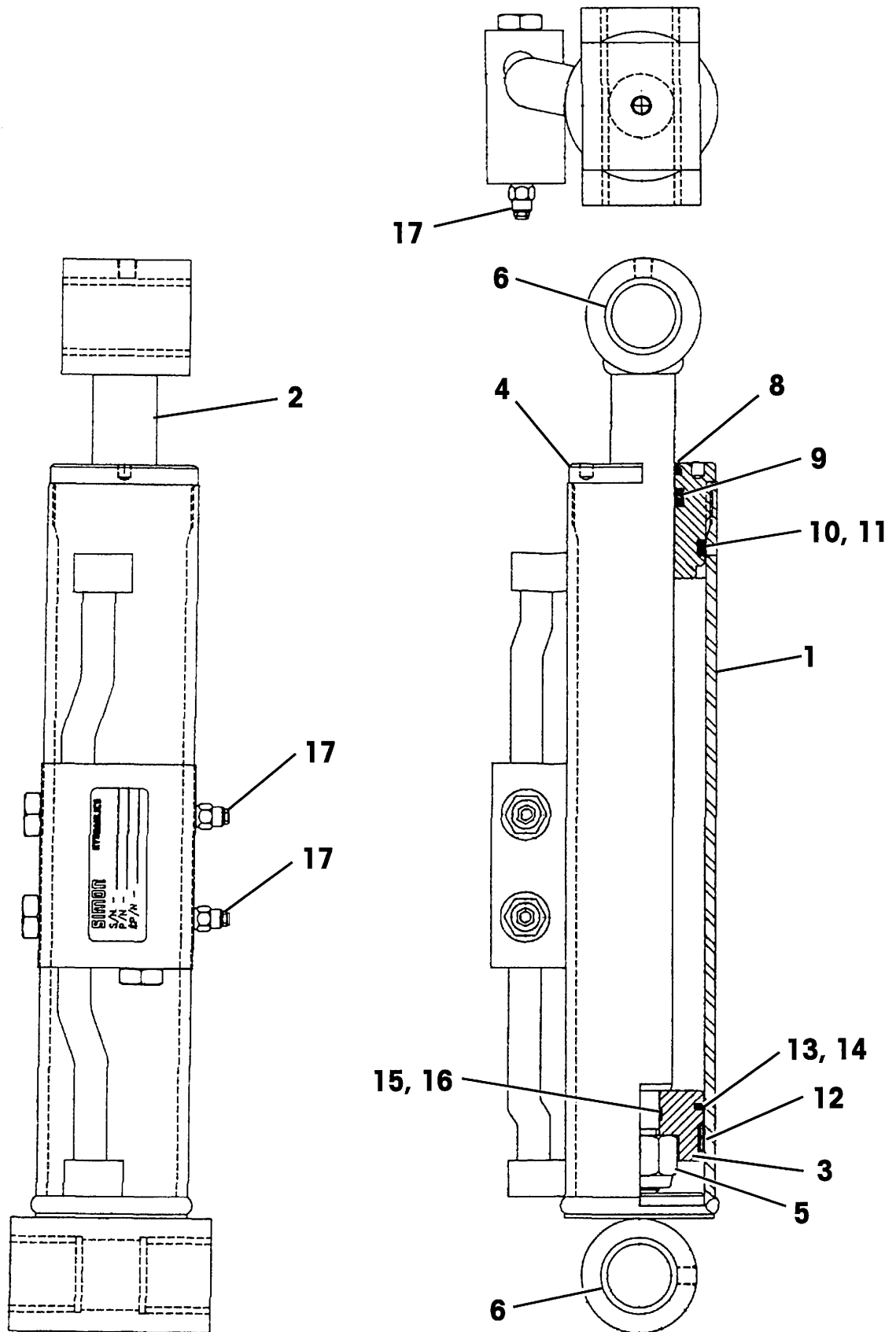
**PLATE
NO. D09.102**

PARTS LIST

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

TITLE MASTER LEVEL CYLINDER, 10" (.25 M) STROKE				
SECTION	D10.	PLATE NO. 101	PAGE 01	REV. - DATED 03 DEC., 1992 PART NO. 04-032 600

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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10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
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24 Hr (Machine) 414-362-8280
Fax 414-355-3172

TITLE

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

PART NO. 04-032 600

REV. -

DATED 03 DEC., 1992

SECTION D10.

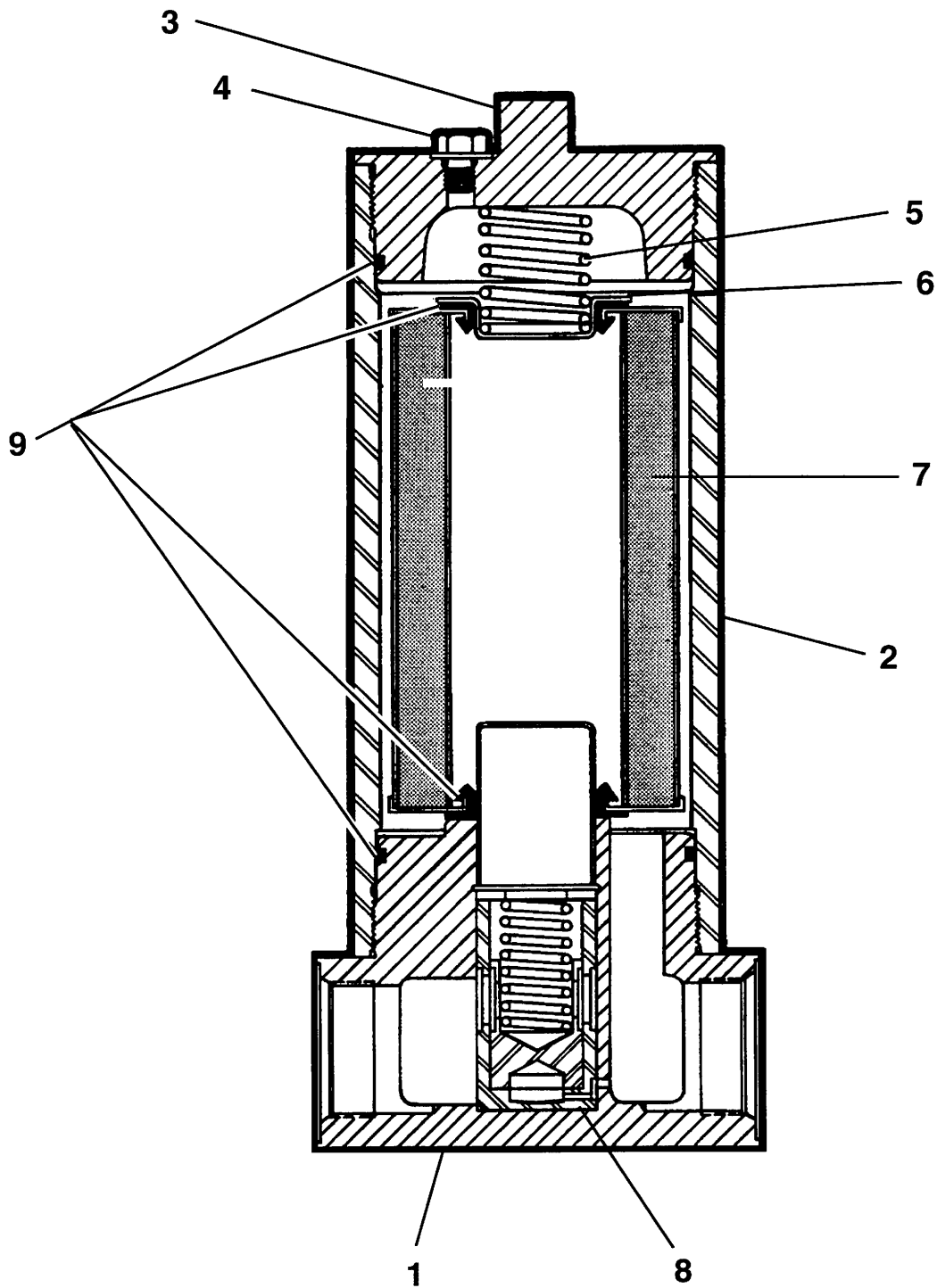
PLATE NO. 101

PAGE 01

[illegible]

PLATE NO. D11.03	SIMON AERIALS INC.
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PART NO. 01-014000



TITLE

HIGH PRESSURE FILTER

SIMON AERIALS INC.

REV. 06/25/91

PART
NO.

01-014000

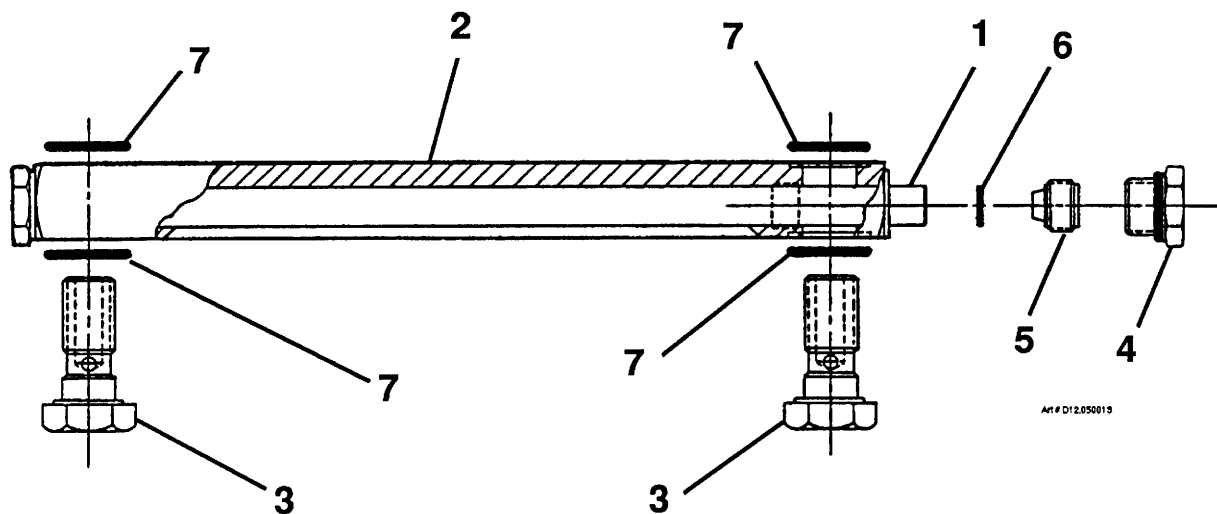
PLATE
NO.

D11.03

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SIGHT GAUGE, 14"

PART NO. 10-033800



TITLE

SIGHT GAUGE, 14"

SIMON AERIALS INC.

REV. 05/02/91

PART
NO.

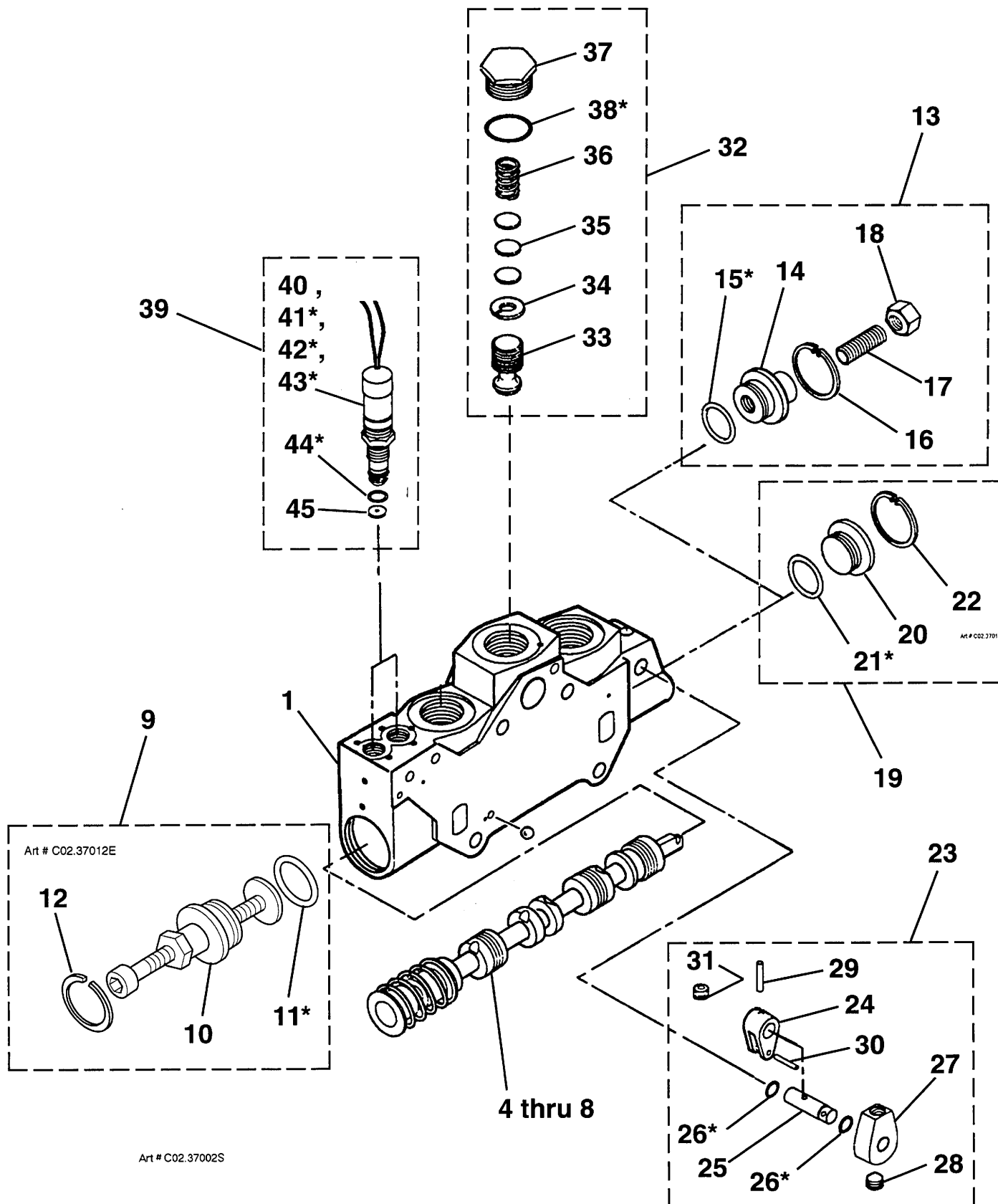
10-033800

PLATE
NO.

D12.05

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	01-234500 Call Simon		DRIVE VALVE SECTION for Model RP 46 for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	1
1			HOUSING, DRIVE VALVE SECTION	1
2	01-211026 Call Simon		SEAL KIT, WORK SEGMENT (incl. all items with asterisk*) for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
3		*	BALL (for housing cross port)	1
4	Call Simon		SPOOL KIT, DRIVE VALVE for first type valve bank assemblies (MP series only)	1
5	Call Simon		for second type MP and all RP valve bank assemblies	
6			SPOOL, MAIN	1
7			GUIDE, SPRING	2
8			SPRING, CENTERING	1
9			RING, RETAINING	1
			CENTERING PLUG KIT	1
10	01-216401 Call Simon		for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies PLUG, CENTERING	1
11		*	"O"-RING	1
12			RING, RETAINING	1
13			FLOW LIMITER KIT	
	01-211023 Call Simon		(Found on some units. Optional with End plug, Item 19) for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
14		*	PLUG, ADJUSTMENT	1
15			"O"-RING	1
16			RING, RETAINING	1
17			SET SCREW	1
18			NUT, SEAL	1
19			PLUG KIT, END	
	01-211022 Call Simon		(Found on some units. Optional with Flow limiter, Item 13) for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
20		*	PLUG	1
21			"O"-RING	1
22			RING, RETAINING	1
TITLE DRIVE CONTROL VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2)				
PLATE NO.	D13.06	SIMON AERIALS INC.		PART NO.
REV. 16 FEB., 1996				

Art # C02.37006E



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

SIMON AERIALS INC.

REV. 16 FEB., 1996

PART
NO.

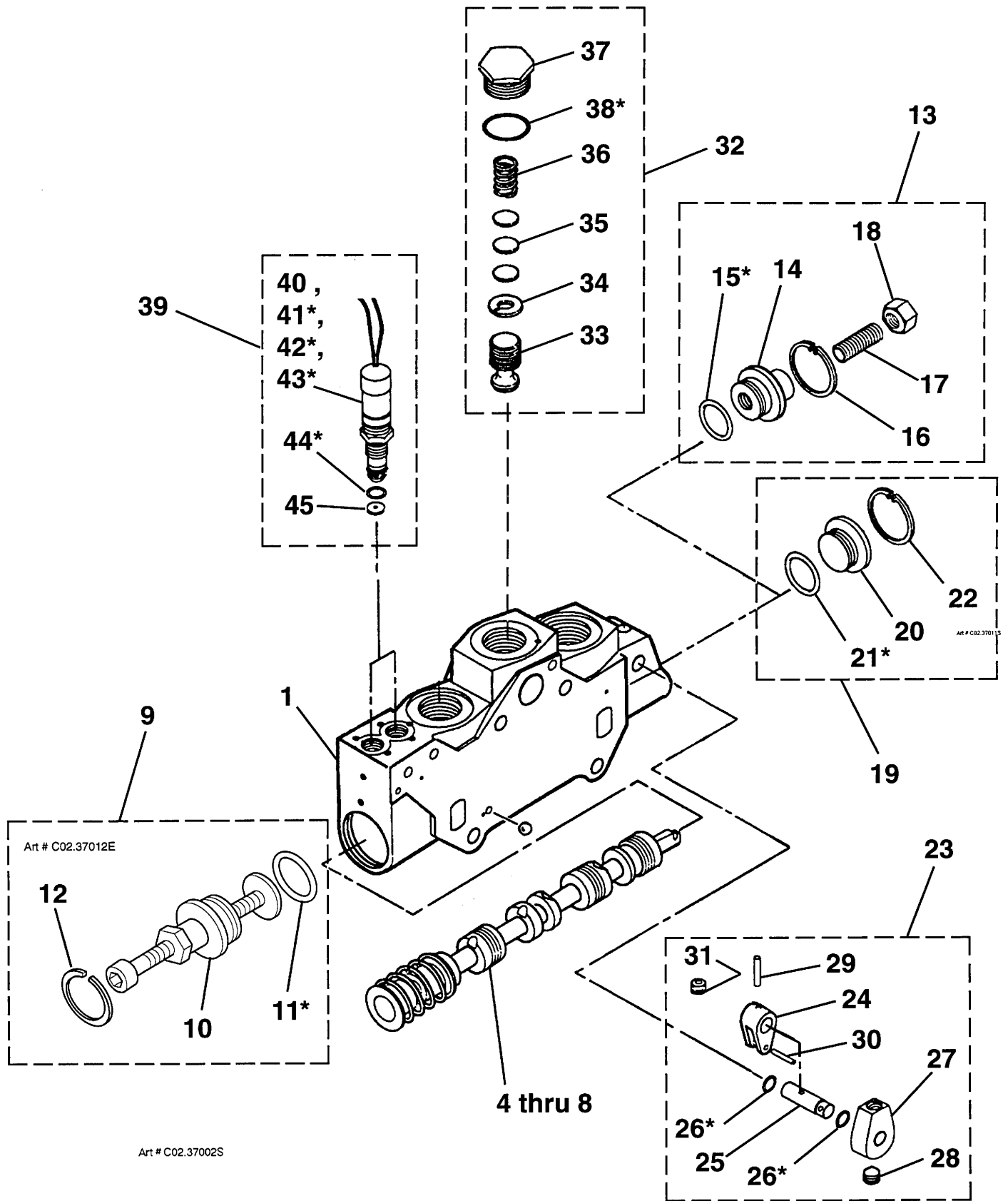
PLATE
NO. D13.06

[illegible]

PLATE NO	D13.06	SIMON AERIALS INC.
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PART
NO.

Art # C02.370055



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.
	01-231204 Call Simon		TELESCOPE VALVE SECTION for Model RP 66 for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	1
1			HOUSING, TELESCOPE VALVE SECTION	1
2	01-211004 Call Simon		SEAL KIT, WORK SEGMENT for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
3			SEAL KIT, WORK SEGMENT . . . includes;	1
4			BALL (for housing cross port)	1
5			"O"-RING (for housing cross port)	2
6			"O"-RING (for housing cross port) plus all items below marked with an asterisk (*)	3
7	Call Simon		SPOOL KIT, TELESCOPE VALVE Please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	1
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	01-211013 Call Simon		PLUG, HEX for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
16		*	PLUG	1
17		*	"O"-RING	1
18	01-211009 Call Simon		PLUG, SOCKET for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
19		*	PLUG	1
20		*	"O"-RING	1

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

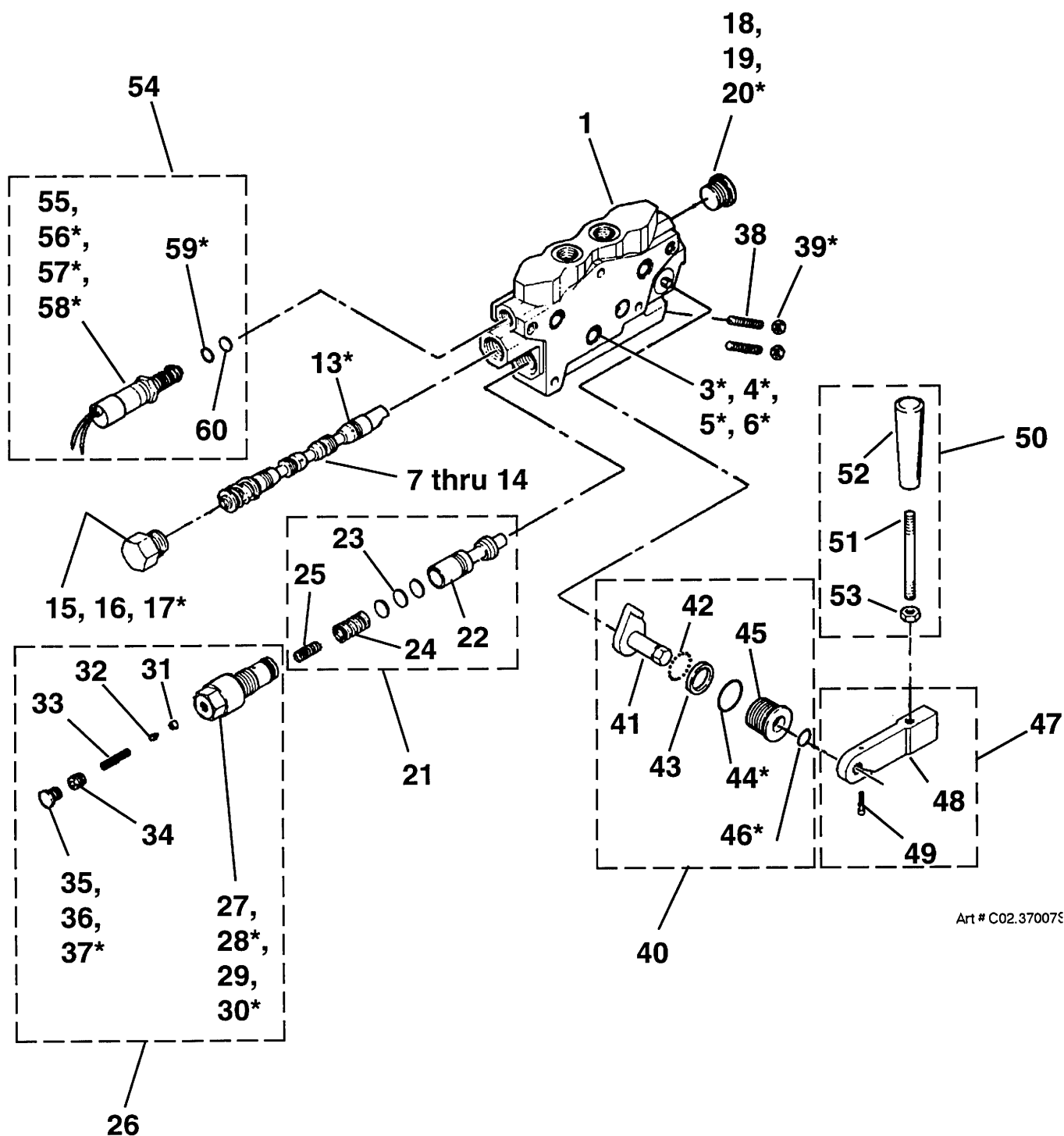
PLATE
NO.

D13.07

SIMON AERIALS INC.

REV. 26 JUL., 1994

PART
NO.



Art # C02.370075

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	Call Simon Call Simon		SPOOL KIT, COMPENSATOR for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
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	01-211016 Call Simon		CARTRIDGE KIT, PRESSURE LIMITER for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
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	01-211010 Call Simon		SET SCREW for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	2
39	01-211011 Call Simon	*	NUT, SEAL for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	2
40	01-211008 Call Simon		HANDLE SHAFT KIT for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
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. D13.07

SIMON AERIALS INC.

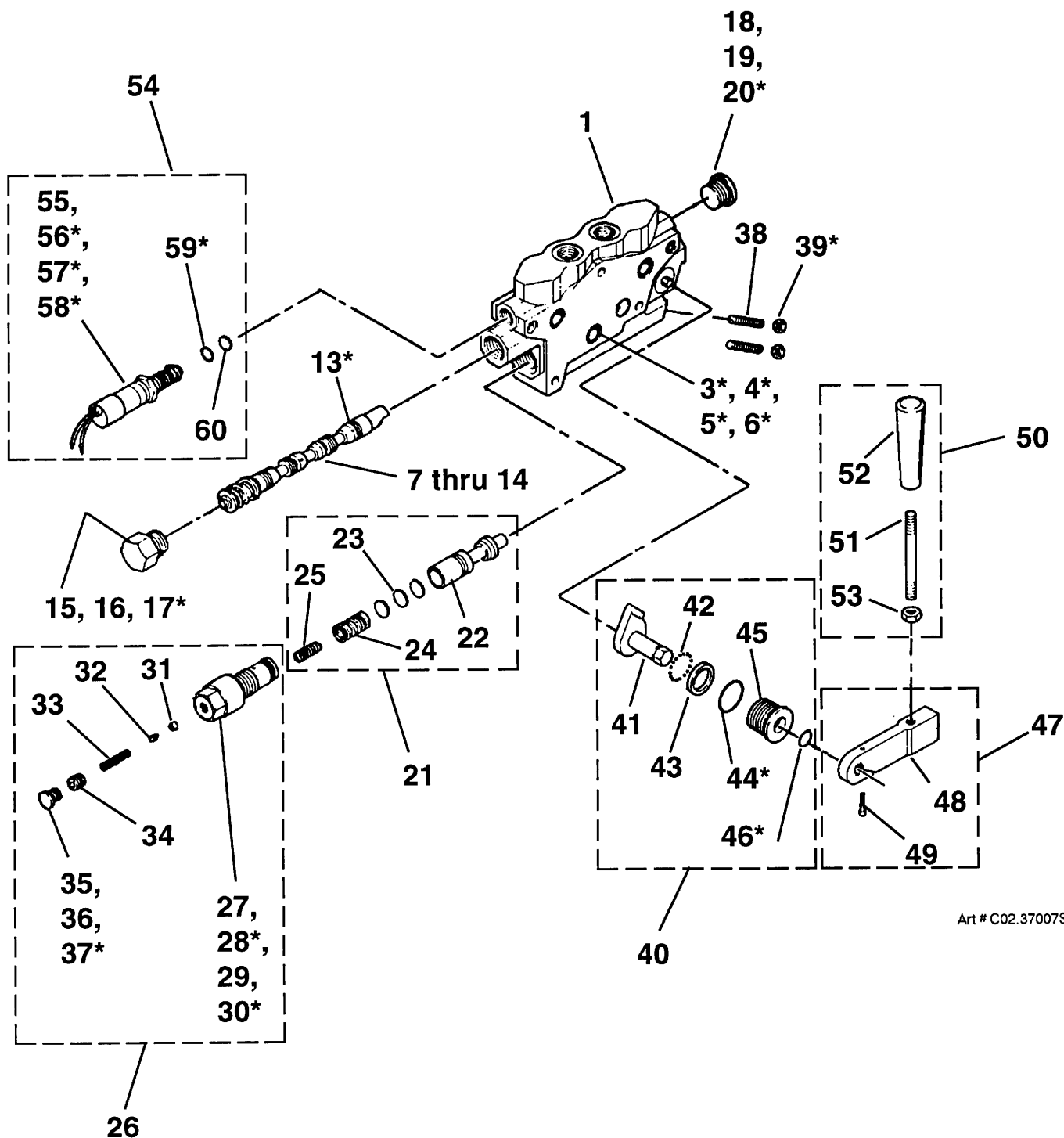
REV. 26 JUL., 1994

PART NO.

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TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)			
PLATE NO.	D13.07	SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.

PART
NO.



Art # C02.370075

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.	
	Call Simon		STEER VALVE SECTION for first type valve bank assemblies (MP series only)	1
	Call Simon		for second type MP and all RP valve bank assemblies	
1			HOUSING, STEER VALVE SECTION	1
2	01-211004 Call Simon		SEAL KIT, WORK SEGMENT for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
3			SEAL KIT, WORK SEGMENT . . . includes;	1
4			BALL (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 Call Simon		SPOOL KIT, STEER VALVE for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
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	01-211013 Call Simon		PLUG, HEX for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
16			PLUG	1
17		*	"O"-RING	1
18	Call Simon Call Simon		PLUG, SOCKET for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
19			PLUG	1
20		*	"O"-RING	1

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

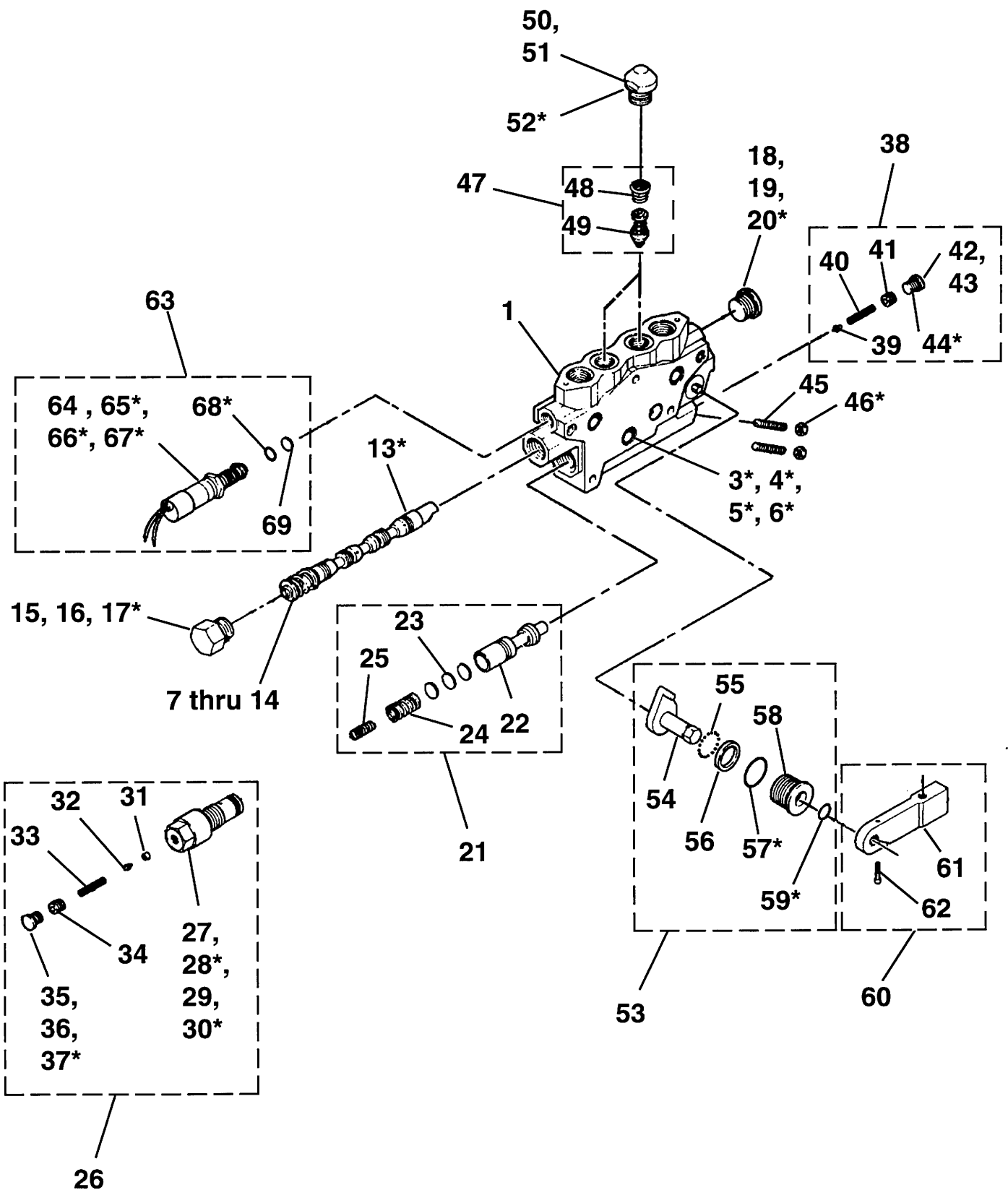
PLATE NO.

D13.08

SIMON AERIALS INC.

REV. 26 JUL., 1994

PART NO.



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

SIMON AERIALS INC.

REV. 26 JUL., 1994

PART
NO.

PLATE
NO. D13.08

PARTS LIST

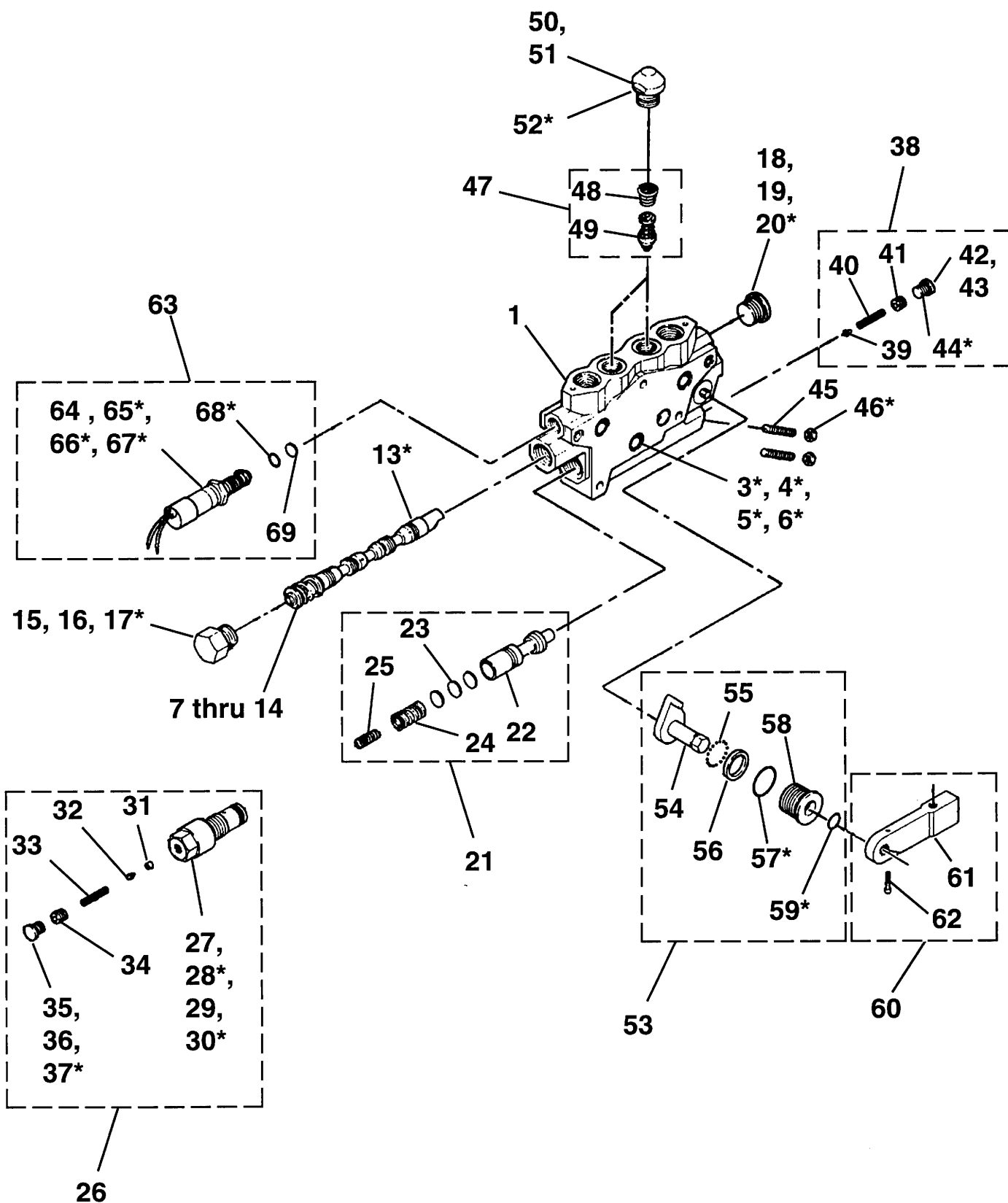
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
21	01-211012 Call Simon		SPOOL KIT, COMPENSATOR for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
22			SPOOL, COMPENSATOR	1
23			SHIM (.025" [.635 mm])	3
			SHIM (.008" [.203 mm])	3
			SHIM (.003" [.076 mm])	3
24			SPRING, COMPENSATOR (outer)	1
25			SPRING, COMPENSATOR (inner, needed for 10 Gal [37.8 Liters]/ Min flow or greater)	1
26	01-211006 Call Simon		CARTRIDGE KIT, PRESSURE LIMITER for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
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	01-211005 Call Simon		PRESSURE LIMITER KIT for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
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	01-211010 Call Simon		SET SCREW for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	2
46	01-211011 Call Simon	*	NUT, SEAL for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	2

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

PLATE NO. D13.08 **SIMON AERIALS INC.**

REV. 26 JUL., 1994

PART NO.



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	01-211007 Call Simon		RELIEF KIT (with anti-cavitation valve) for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	2
48			CARTRIDGE ASSEMBLY	1
49			SPRING	1
50			PLUG, WORK PORT	1
51	Call Simon Call Simon		for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies PLUG	1
52		*	"O"-RING	1
53	01-211008 Call Simon		HANDLE SHAFT KIT for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
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	01-211014 Call Simon		OPERATOR LINKAGE KIT (fixed) for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
61			ADAPTER, HANDLE	1
62			CAP SCREW	1
63	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
64			SOLENOID, PULSAR (12 Volt)	1
65		*	"O"-RING	1
66		*	SCREEN, SOLENOID FILTER	1
67		*	"O"-RING (special)	2
68		*	"O"-RING	2
69			PLATE, ORIFICE	1

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

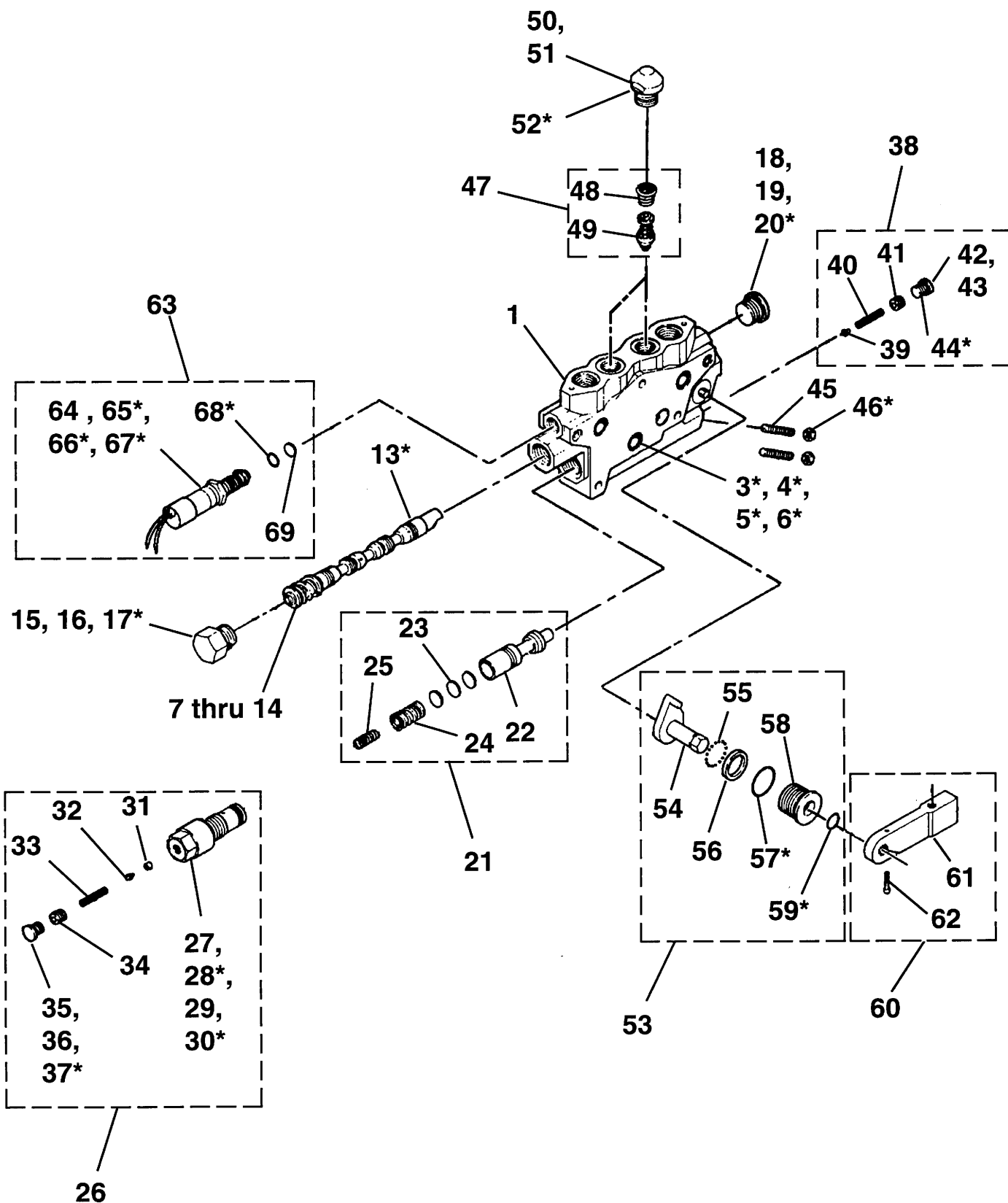
**PLATE
NO.**

D13.08

SIMON AERIALS INC.

REV. 26 JUL., 1994

**PART
NO.**



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

SIMON AERIALS INC.

REV. 26 JUL., 1994

PART
NO.

PLATE
NO. D13.08

PARTS LIST

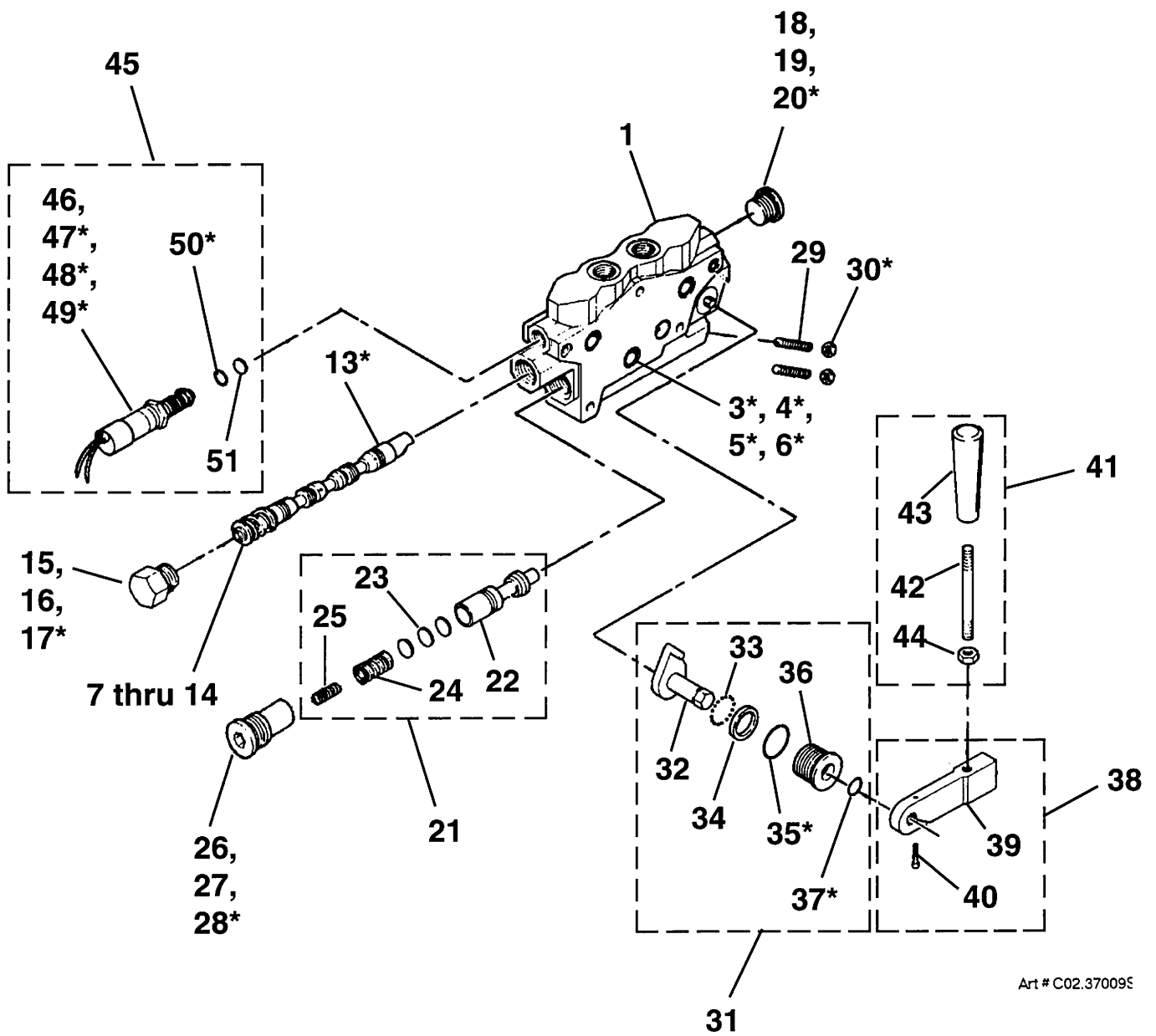
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-231205 01-231203 Call Simon		BOOM RAISE/ LOWER VALVE SECTION for Model RP 66 main boom for Model RP 66 jib boom for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	1
1	01-211004 Call Simon		HOUSING,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

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

PLATE NO. D13.09 **SIMON AERIALS INC.**

REV. 26 JUL., 1994

PART NO.



Art # C02.37009S

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

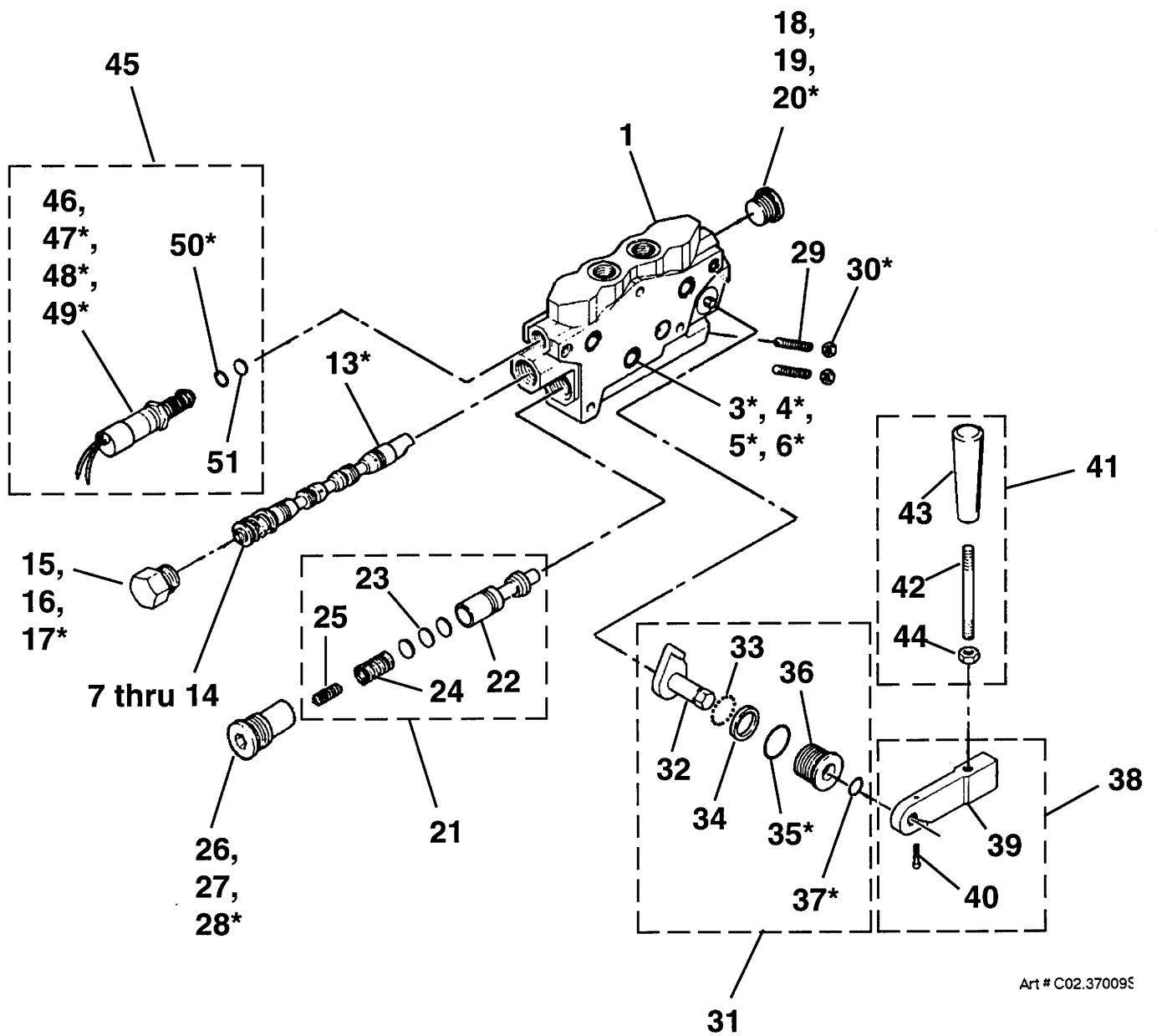
SIMON AERIALS INC.

REV. 26 JUL., 1994

PART
NO.

PLATE
NO. D13.09

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
21	01-211012 Call Simon		SPOOL KIT, COMPENSATOR for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
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	01-211015 Call Simon		PLUG, COMPENSATOR for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
27			PLUG	1
28		*	"O"-RING	1
29	01-211010 Call Simon		SET SCREW for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	2
30	01-211011 Call Simon	*	NUT, SEAL for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	2
31	01-211008 Call Simon		HANDLE SHAFT KIT for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
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	01-211014 Call Simon		OPERATOR LINKAGE KIT (fixed) for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
39			ADAPTER, HANDLE	1
40			CAP SCREW	1
41			HANDLE KIT	1
	01-211003 Call Simon		for first type valve bank assemblies (MP series only) 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. D13.09		SIMON AERIALS INC.		PART NO.
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.

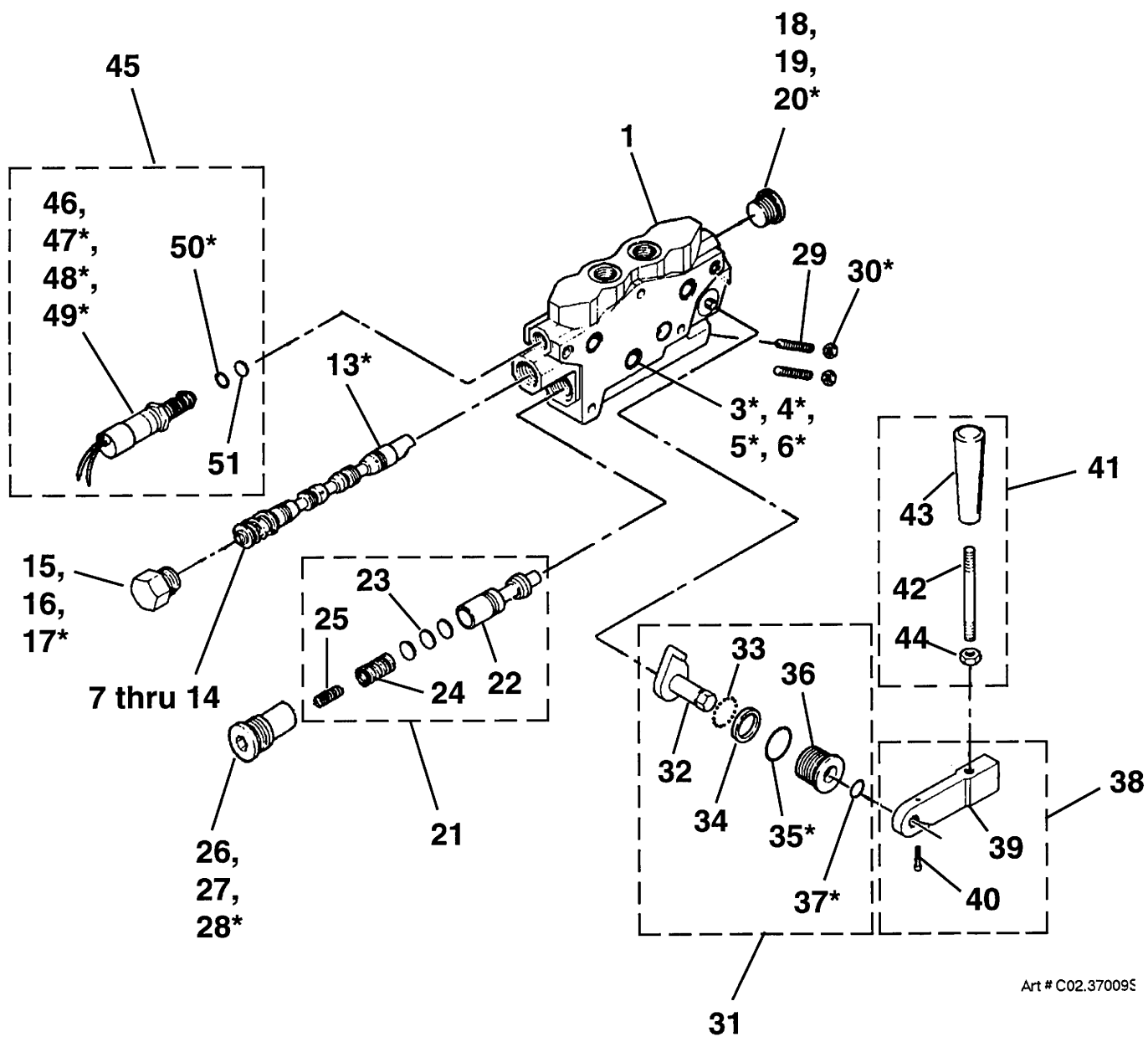
PLATE
NO. D13.09

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SIMON AERIALS INC.

REV. 26 JUL., 1994

PART
NO.



Art # C02.370095

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

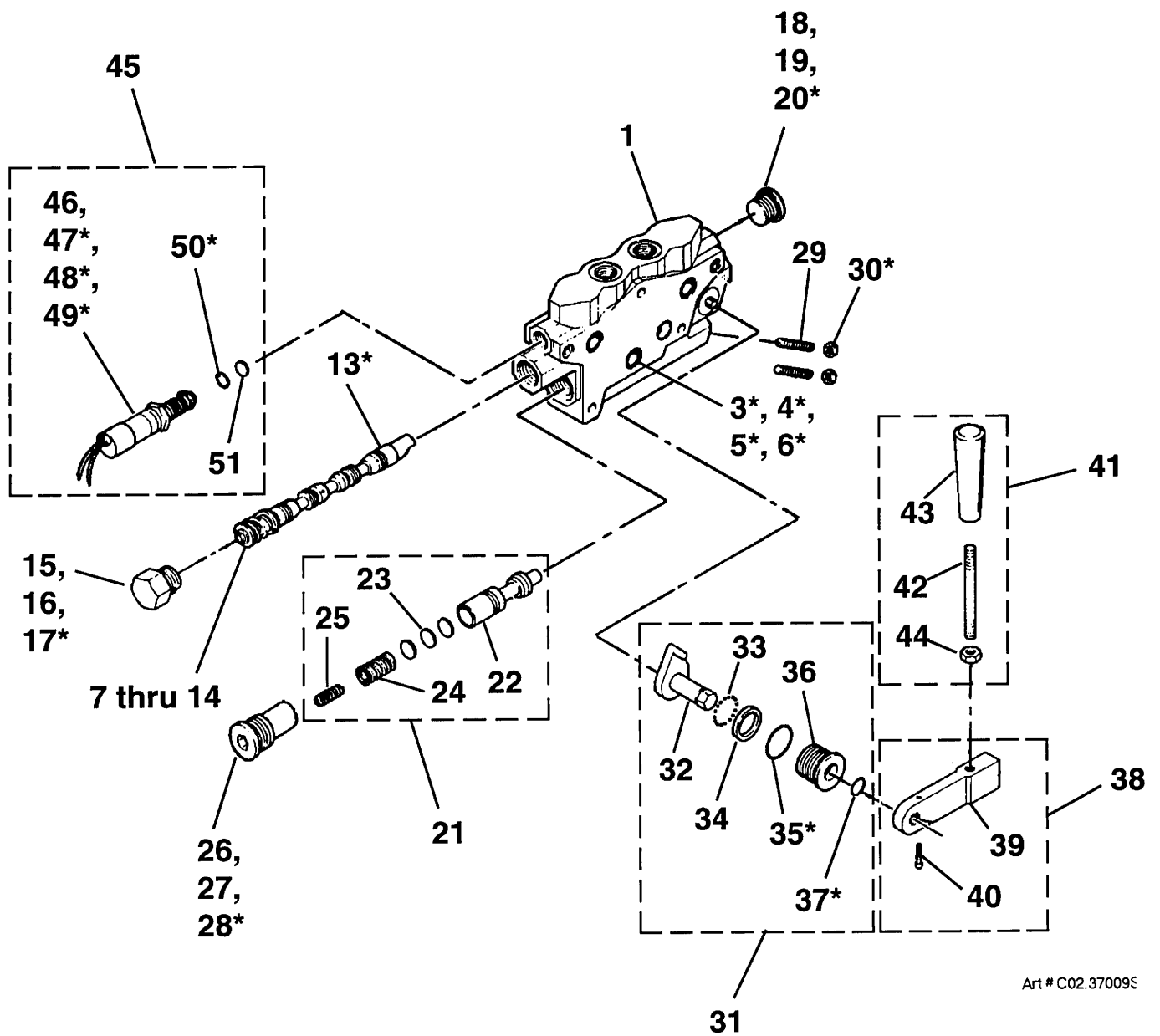
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	01-231206 Call Simon		SWING VALVE SECTION for Model RP 66 for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	1
1			HOUSING, SWING VALVE SECTION	1
2	01-211004 Call Simon		SEAL KIT, WORK SEGMENT . . . includes; for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
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
7	Call Simon		plus all items below marked with an asterisk (*) SPOOL KIT, SWING VALVE	1
8			Please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate. 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	01-211013 Call Simon		PLUG, HEX for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
16		*	PLUG	1
17			"O"-RING	1
18			PLUG, SOCKET	1
19	01-211009 Call Simon		for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies PLUG	1
20		*	"O"-RING	1

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

PLATE NO. D13.10 **SIMON AERIALS INC.**

REV. 26 JUL., 1994

PART NO.



Art # C02.37009S

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

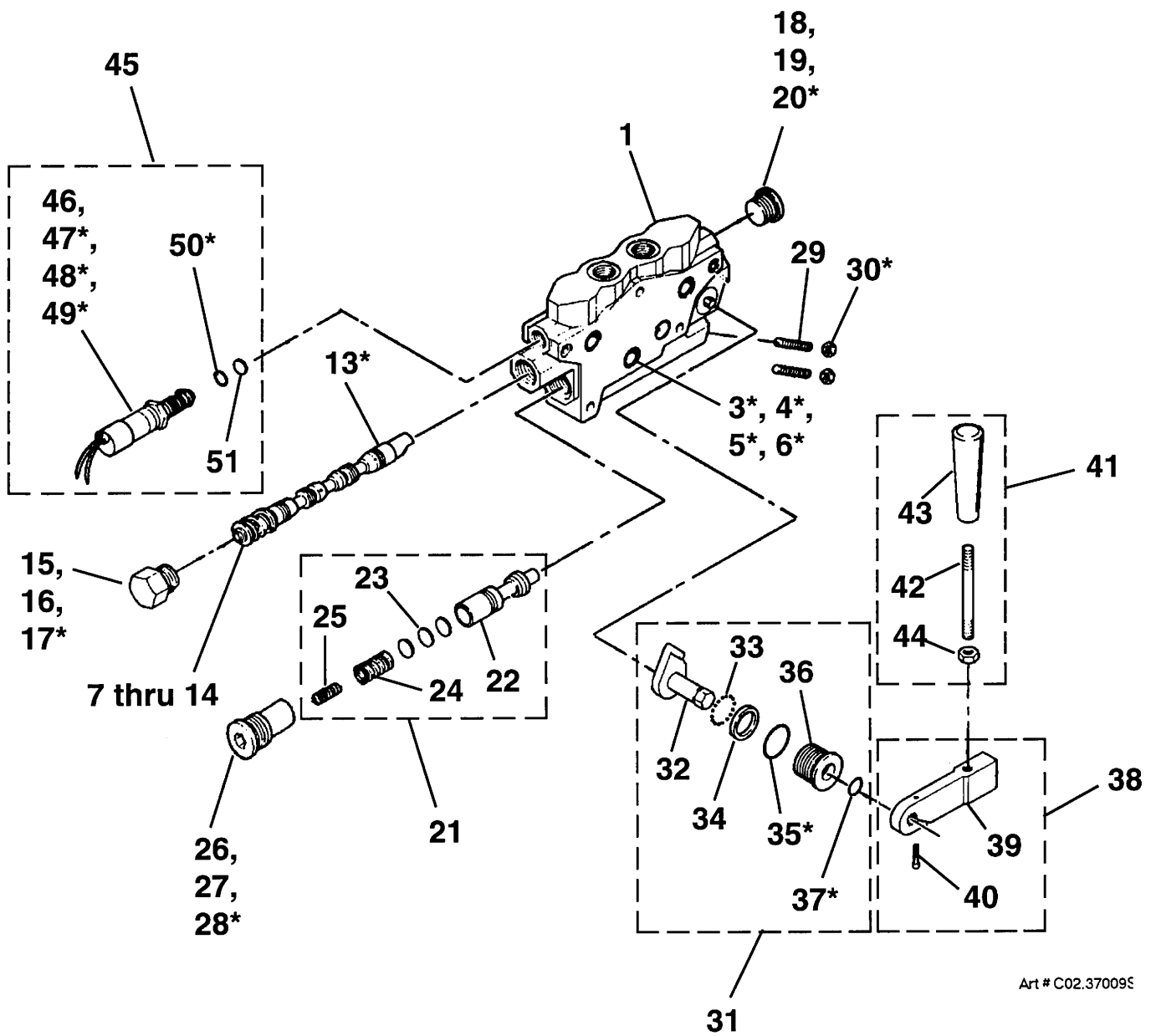
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
21	01-211012 Call Simon		SPOOL KIT, COMPENSATOR for first type valve bank assemblies (MP series only) for second type MP and all RP valve bank assemblies	1
22			SPOOL, COMPENSATOR	1
23			SHIM (.025" [.635 mm])	3
			SHIM (.008" [.203 mm])	3
			SHIM (.003" [.076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

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

PLATE NO. D13.10 **SIMON AERIALS INC.**

REV. 26 JUL., 1994

PART NO.



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

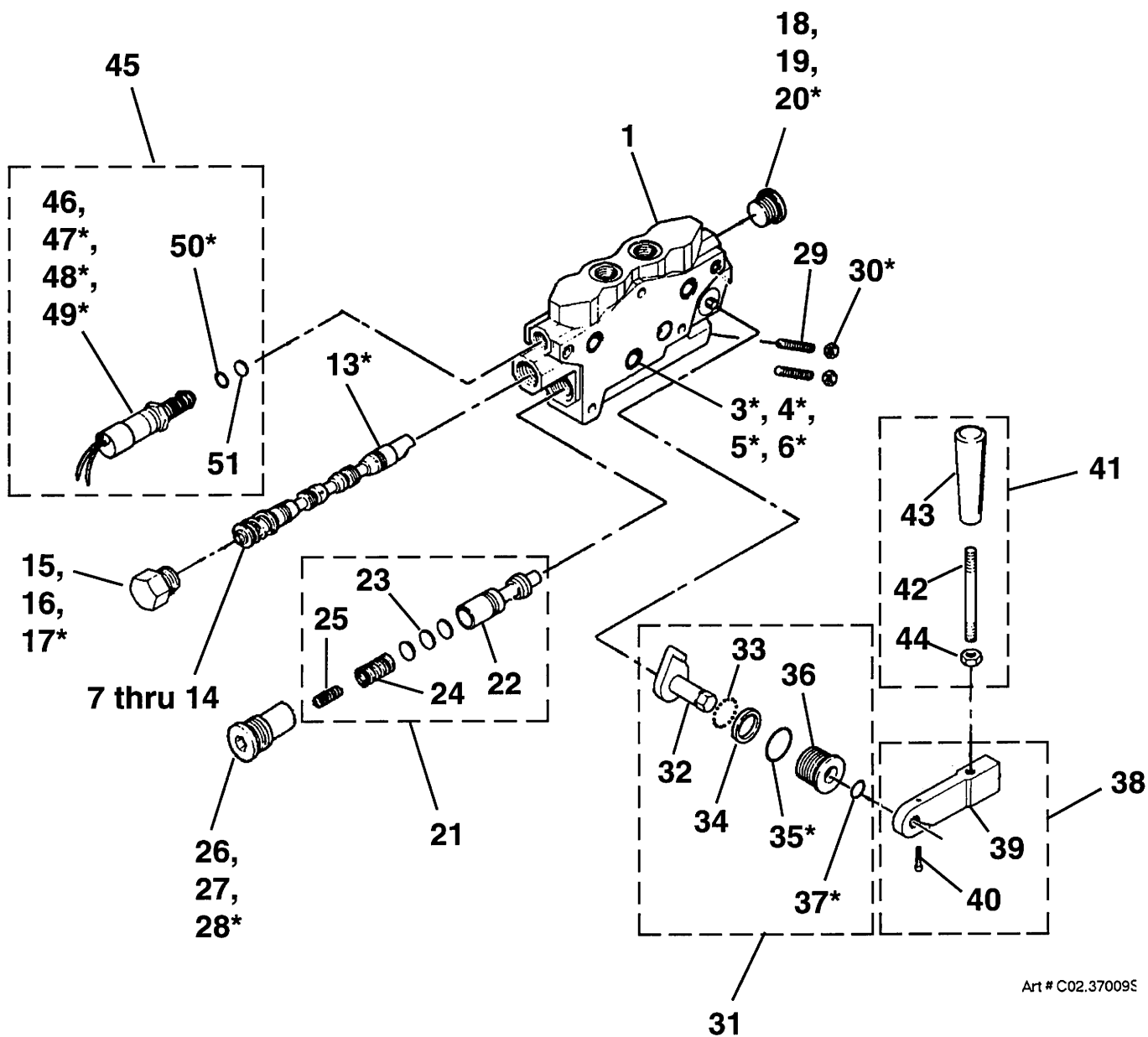
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TITLE SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (3 OF 3)

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

PART NO.	
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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

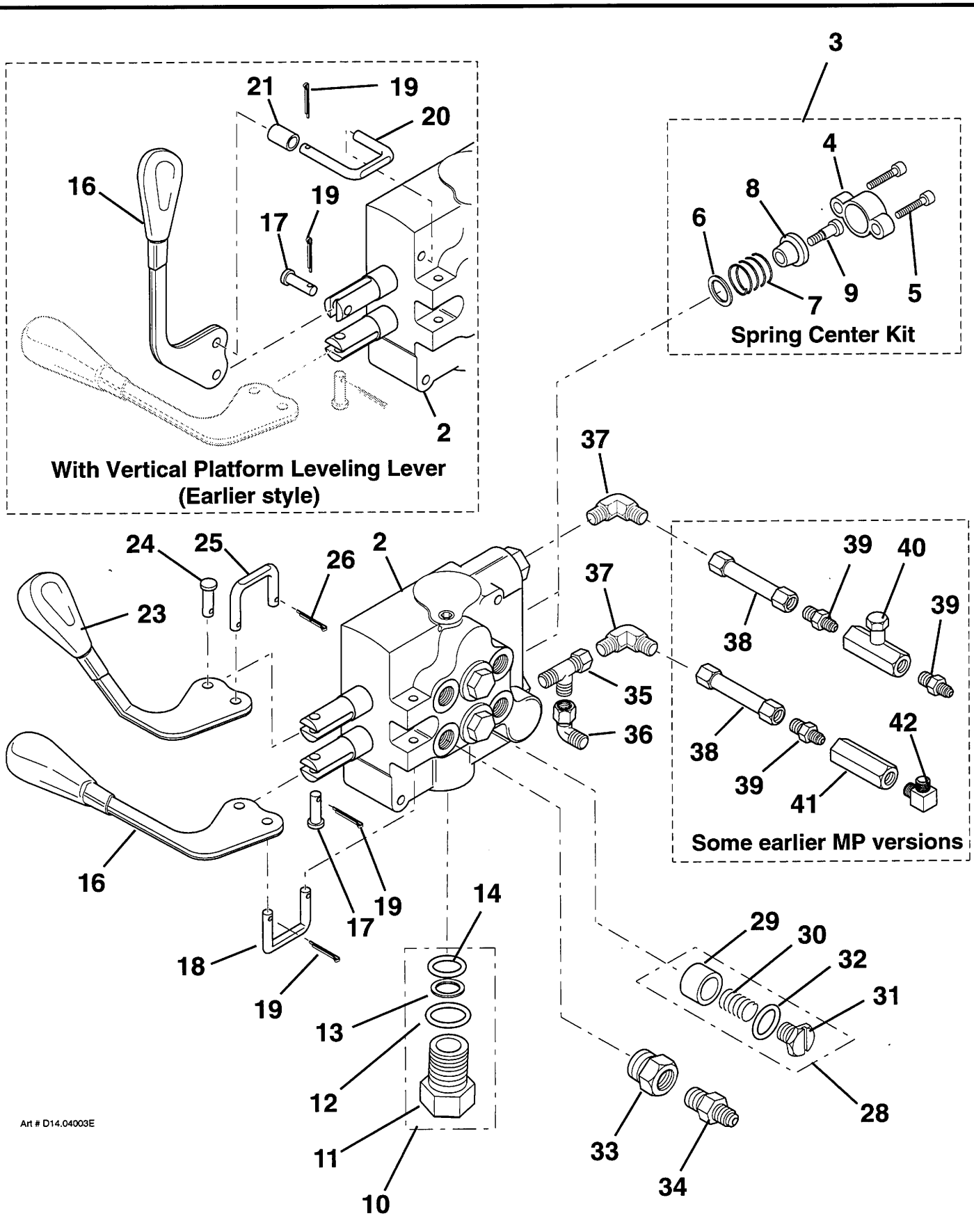
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	352 4590		VALVE ASSEMBLY, PLATFORM ROTATE AND LEVEL for MP Series except MP 110	1
	352 4590		for RP "Reach Plus" except RP 120	
	353 0750		for Model MP 110, RP 120 "Reach Plus", or Trailblazer 40: Early style (Platform leveling lever is mounted vertically)	
	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

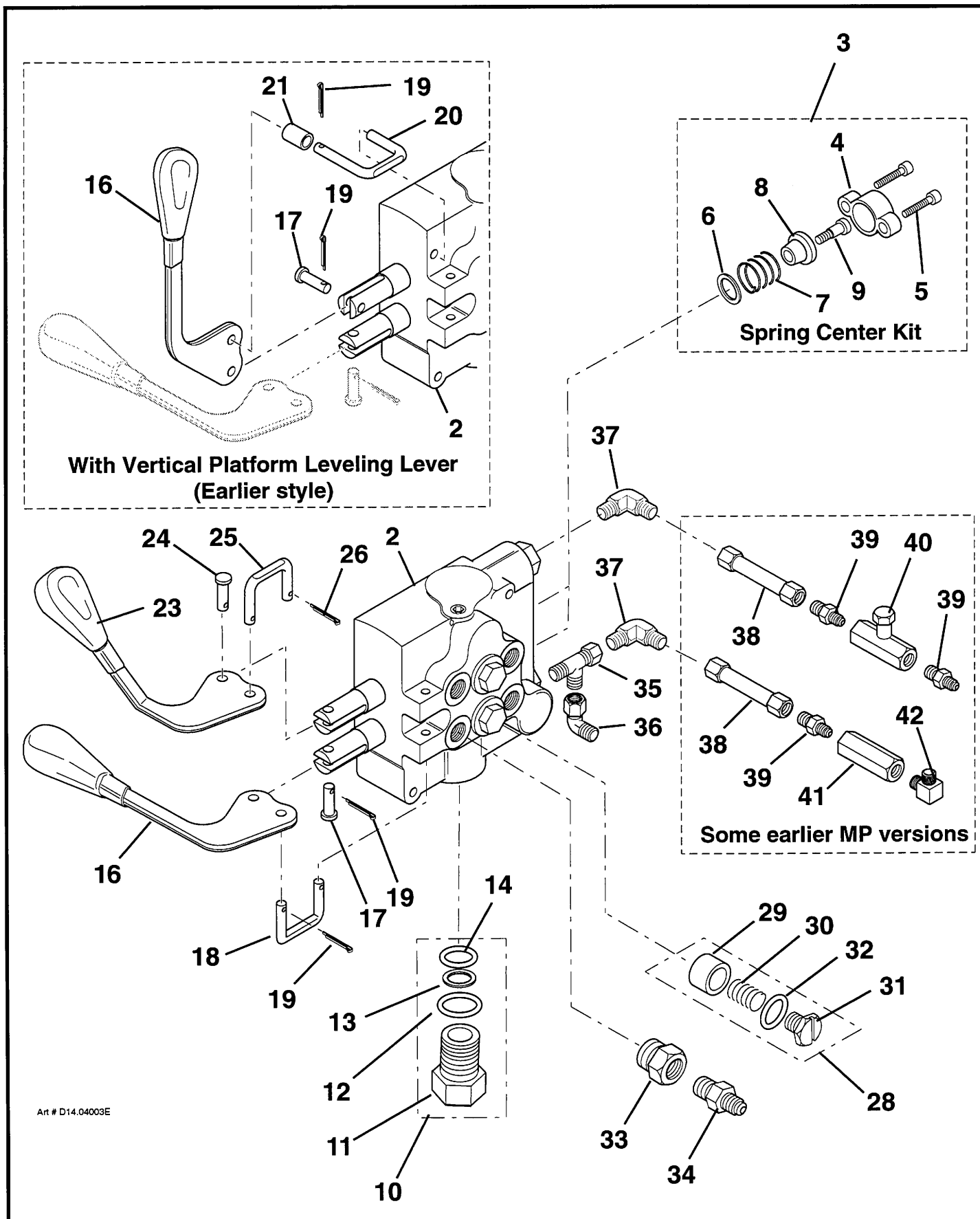
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items are not part of Valve assembly 218 1260 or 230 0610:	
27	01-207101		SEAL KIT	1
28			VALVE KIT, LOAD CHECK (used in some applications)	2
29			POPPET, LOAD CHECK	1
30			SPRING	1
31			PLUG, HEX HEAD	1
32			"O"-RING	
33			FITTING, ORIFICED (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 <i>in most applications</i> :	
43	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
44	07-062014		WASHER, FLAT (1/4")	4
45	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2

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

PLATE NO. D14.04 **SIMON AERIALS INC.**

REV. 29 NOV., 1995

PART NO.



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

SIMON AERIALS INC.

REV. 29 NOV., 1995

PART
NO.

PLATE
NO. D14.04

PARTS LIST

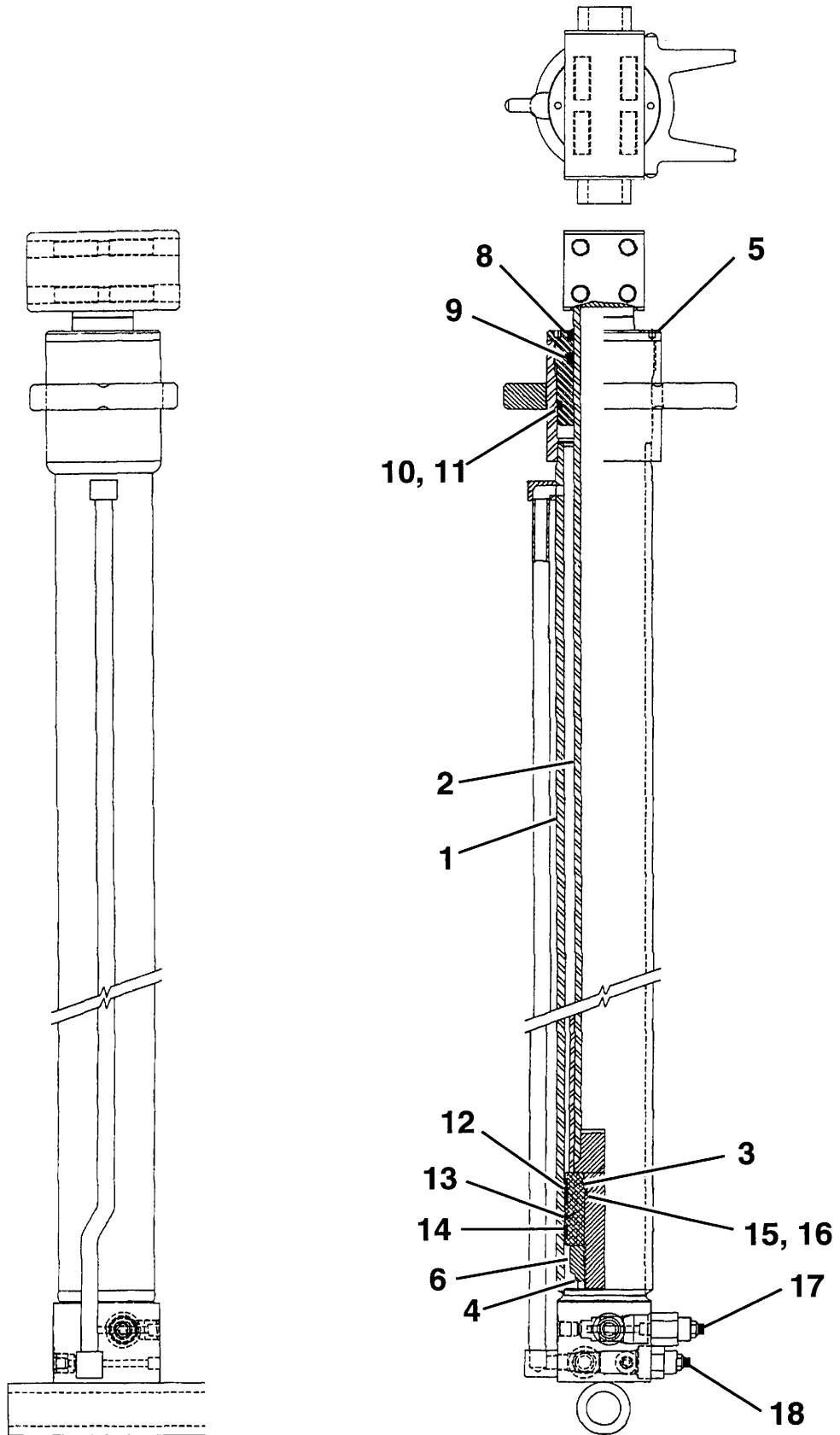
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	04-035100		CYLINDER, BOOM TELESCOPE Type 1. Cylinder can be identified by the Part Number "04035100SH" stamped on the cylinder case, on the side opposite the tube.	
	04-054100		Type 2. Cylinder can be identified by the Part Number "04054100SH" stamped on the cylinder case, on the side opposite the tube.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			SPACER	1
5			GLAND, HEAD	1
6			NUT, LOCK	1
7	04-035101		SEAL KIT (for " Type 1 " Cylinder)	1
	No Part #		SEAL KIT (for " Type 2 " Cylinder)	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
17	04-035102		VALVE, COUNTERBALANCE (Retract) (pre-set at 3,900 psi [268.9 bar] [274.2 kg/ cm ²]) (valve is marked " CBEG-LHN ")	1
18	04-035103		VALVE, COUNTERBALANCE (Extend) (pre-set at 1,200 psi [82.8 bar] [84.4 kg/ cm ²]) (valve is marked " CWCA-LHN ")	1

TITLE TELESCOPE CYLINDER, 164" (4.17 M) STROKE

PLATE NO. D19.101 **SIMON AERIALS INC.**

REV. 17 FEB., 1996

PART NO.



TITLE

TELESCOPE CYLINDER, 164" (4.17 M) STROKE

SIMON AERIALS INC.

REV. 17 FEB., 1996

PART
NO.

PLATE
NO.

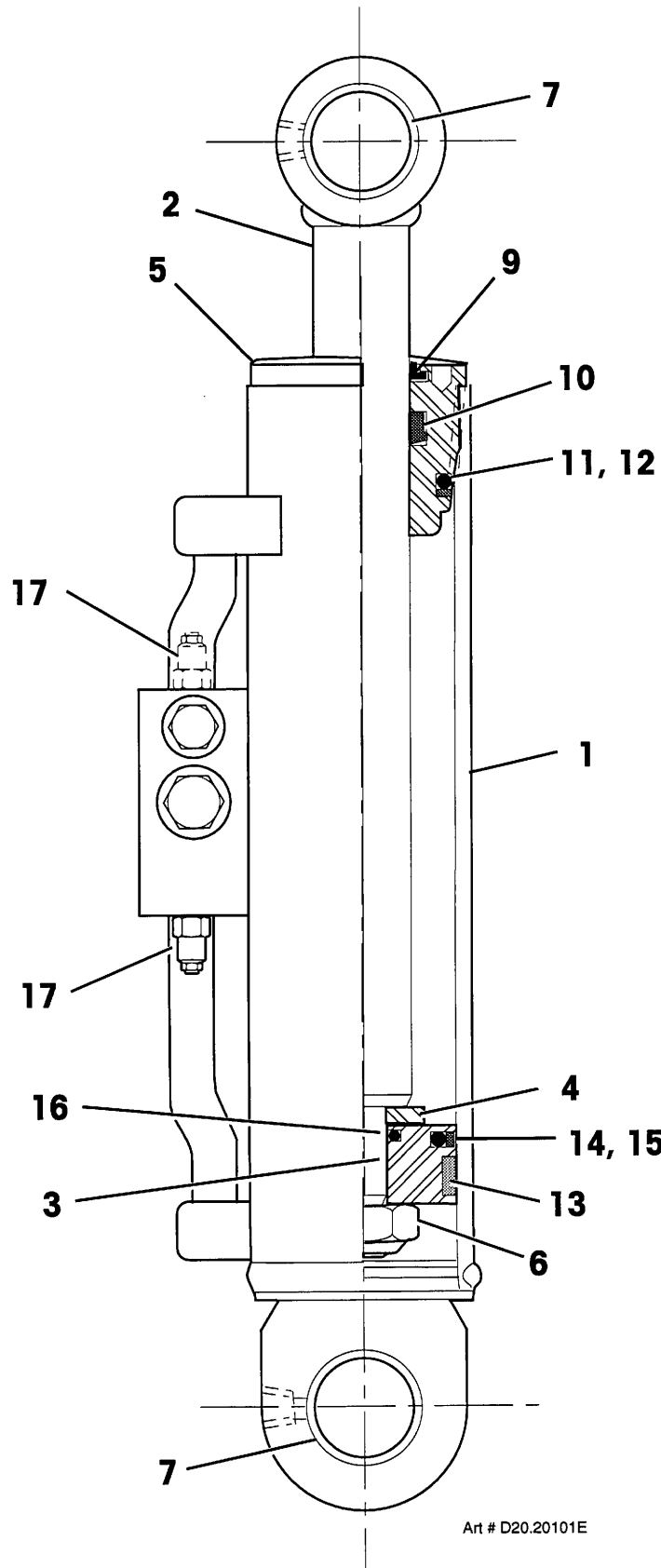
D19.101

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	04-028302		VALVE, COUNTERBALANCE Type 1 (Valve is stamped "CB-CG-LJN")	2
	01-227200		Type 2 (Valve is stamped "CB-CB-LHN", and set at 3,000 PSI [207 Bar] [211 Kg/ cm 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.	2
18			SEAL KIT, COUNTERBALANCE VALVE	
	04-028303		for "Type 1" Valve	1
	01-227201		for "Type 2" Valve	1

TITLE SLAVE LEVEL CYLINDER, 7" (17.8 CM) STROKE				
SECTION D20.	PLATE NO. 201	PAGE 01	REV. -	DATED 22 JUN., 1994 PART NO. 04-039000

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



Art # D20.20101E



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

TITLE

SLAVE LEVEL CYLINDER, 7" (17.8 CM) STROKE

PART
NO.

04-039000

REV.
-

DATED
22 JUN., 1994

SECTION

D20.

PLATE NO.

201

PAGE

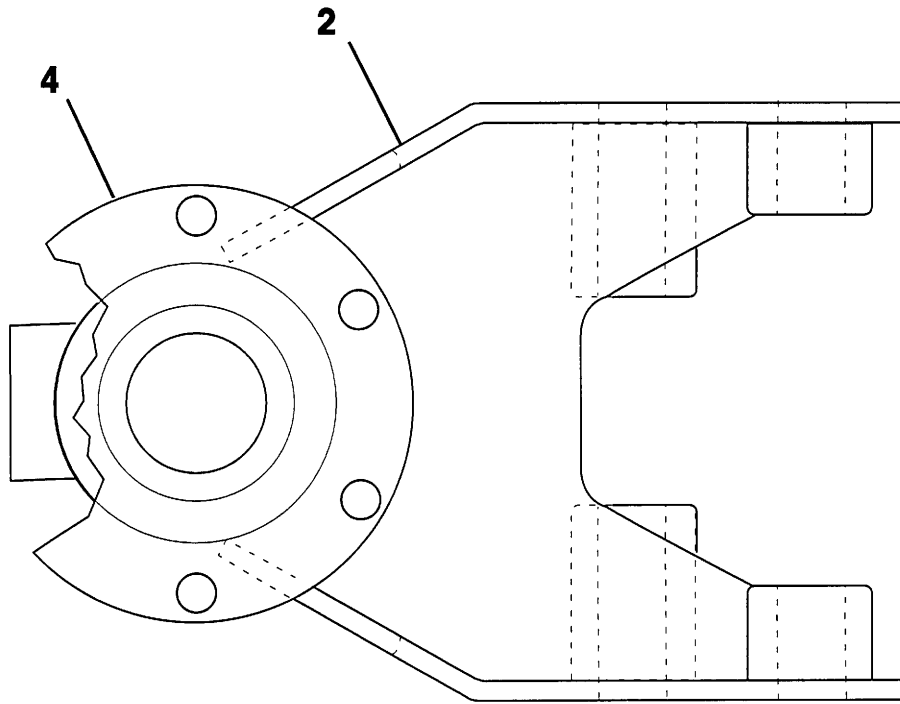
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PARTS LIST

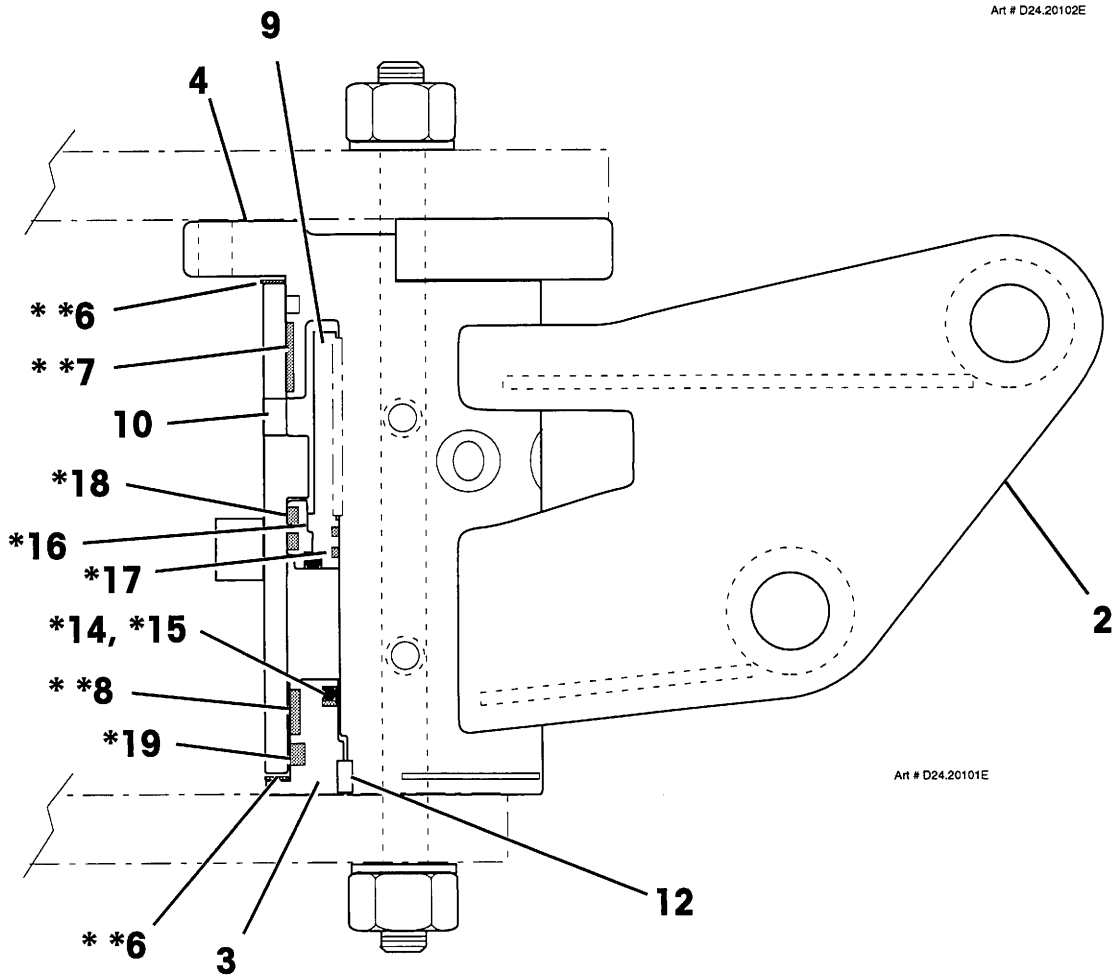
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-042700		ACTUATOR ASSEMBLY, ROTARY	1
2			HOUSING, ROTARY ACTUATOR (includes arms)	1
3			CAP, END	1
4	02-042702		SHAFT	1
5			BEARING KIT Note: Items in kit identified by double asterisk (* *).	1
6			WASHER, THRUST	2
7			BEARING, SHAFT	1
8			BEARING, CAP	1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

TITLE PLATFORM ROTARY ACTUATOR				
SECTION D24.	PLATE NO. 201	PAGE 01	REV. - 14 JUL., 1994	PART NO. 02-042700

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



Art # D24.20102E



Art # D24.20101E



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

TITLE

PLATFORM ROTARY ACTUATOR

PART NO. 02-042700

REV. - DATED 14 JUL., 1994

SECTION D24. PLATE NO. 201 PAGE 01

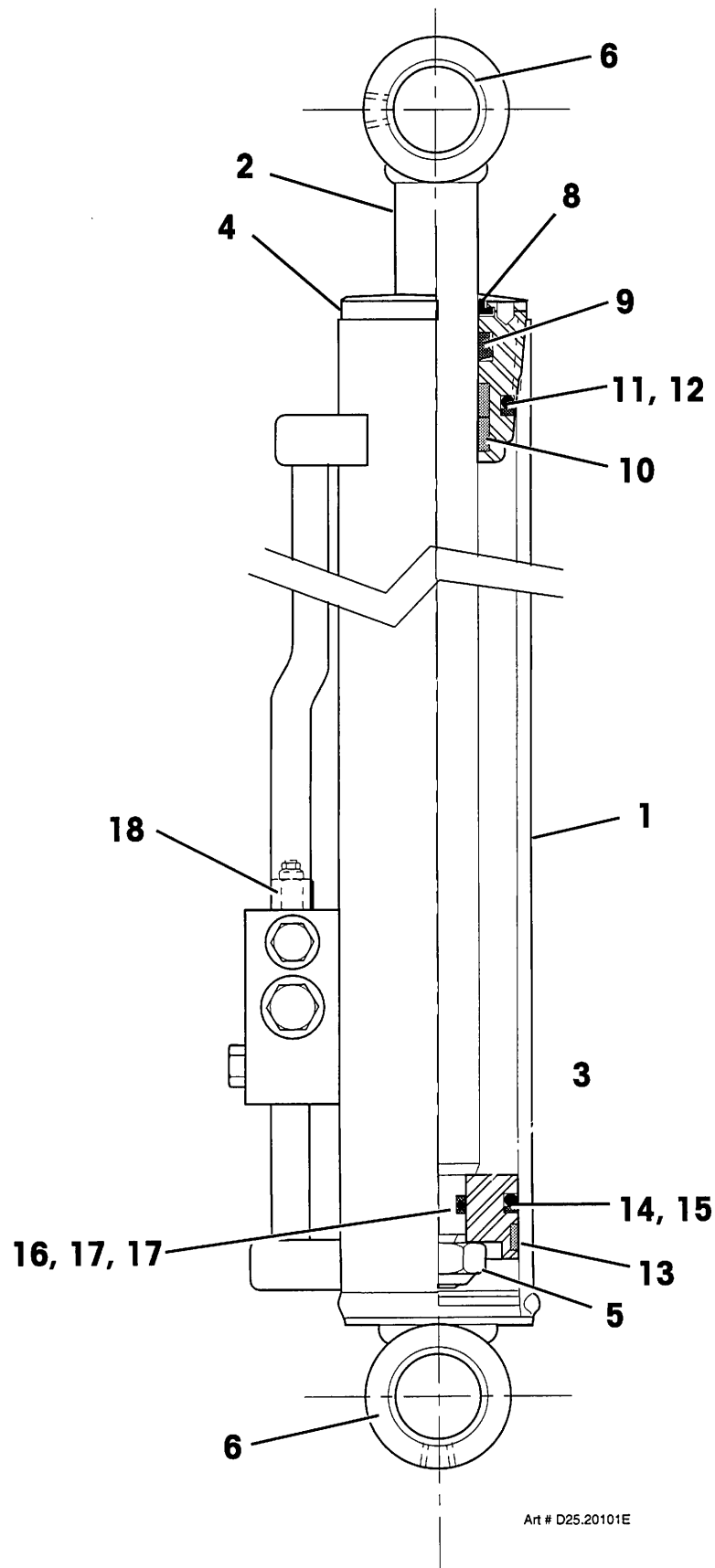
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04039100SH" 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			BUSHING	4
7			SEAL KIT	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			RING, ROD WEAR	2
11			"O"-RING	1
12			RING, BACKUP	1
13			RING, PISTON WEAR	2
14			"O"-RING	1
15			SEAL, PISTON	1
16			"O"-RING	1
17			RING, BACKUP	2
18	01-245000		VALVE, COUNTERBALANCE (Valve is stamped "CB-BA-LHN", and set at 3,000 psi [207 bar] [211 kg/ cm ²]) (Replaces earlier version [04-028302], which is stamped "CB-CG-LJN".)	1
19	04-039101		SEAL KIT, COUNTERBALANCE VALVE	1

TITLE JIB ARTICULATION CYLINDER, 20.69" (.53 M) STROKE				
SECTION D25.	PLATE NO. 201	PAGE 01	REV. A	DATED 20 FEB., 1997 PART NO. 04-039100



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 # D25.20101E



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

TITLE

JIB ARTICULATION CYLINDER, 20.69" (.53 M) STROKE

PART
NO.

04-039100

REV.
A

DATED

20 FEB., 1997

SECTION

D25.

PLATE NO.

201

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01

PARTS LIST

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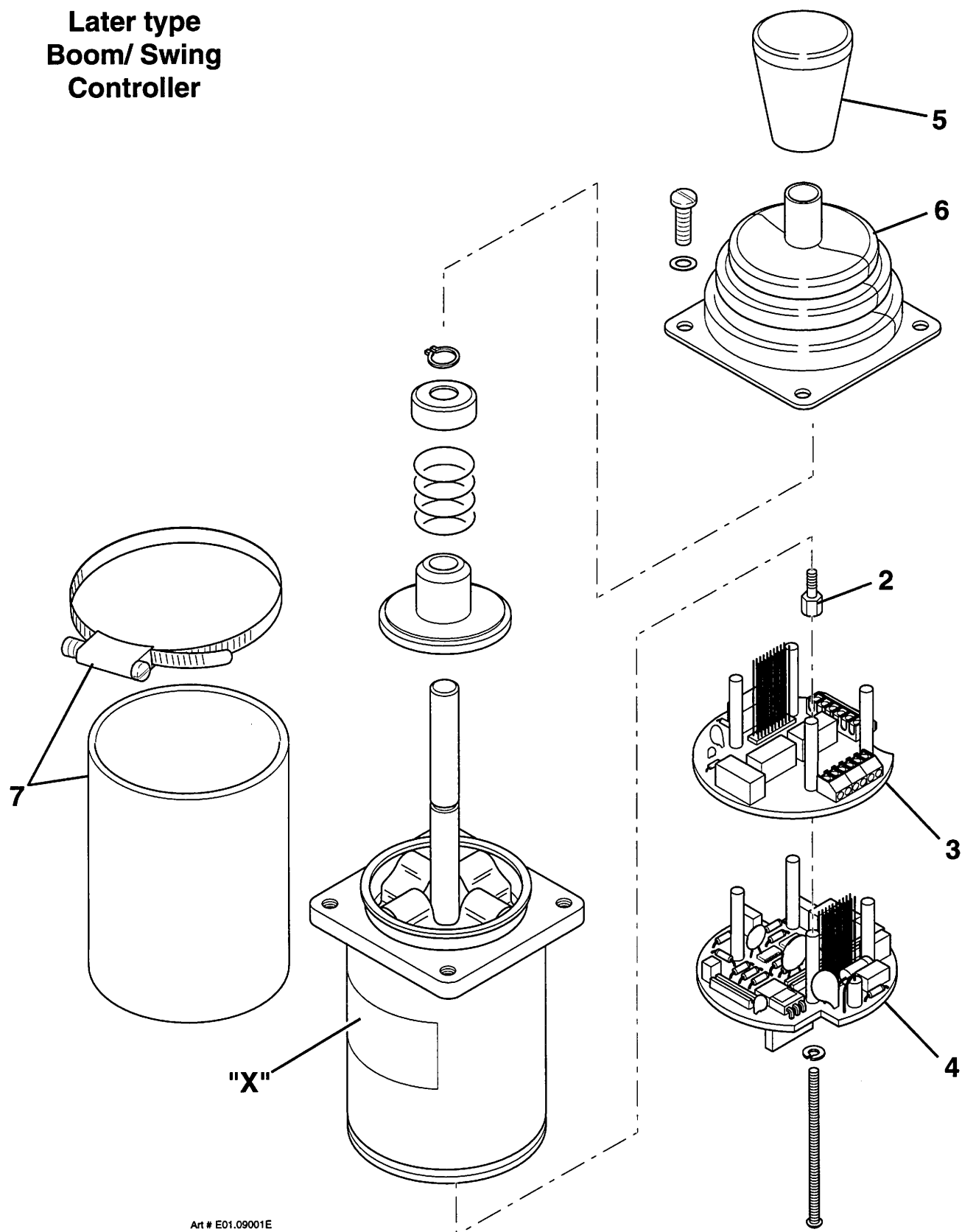
TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

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

**PART
NO.**

**Later type
Boom/ Swing
Controller**



Art # E01.09001E

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

SIMON AERIALS INC.

REV. 07 NOV., 1994

**PART
NO.**

**PLATE
NO. E01.10**

PARTS LIST

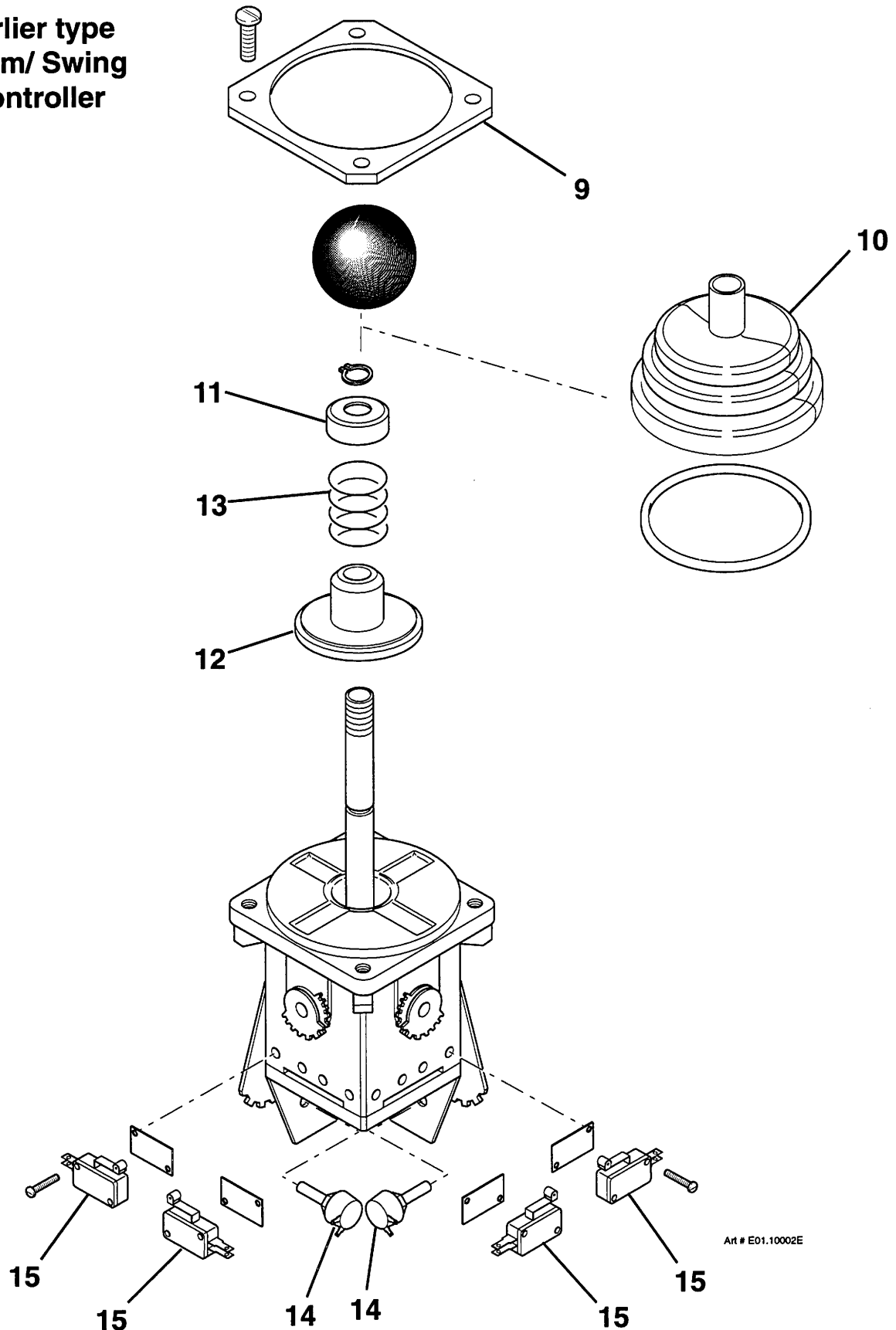
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TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

PLATE NO.	E01.10	SIMON AERIALS INC.	REV. 07 NOV., 1994	PART NO.
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PART NO.	
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**Earlier type
Boom/ Swing
Controller**



Art # E01.10002E

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

SIMON AERIALS INC.

REV. 07 NOV., 1994

**PART
NO.**

**PLATE
NO. E01.10**

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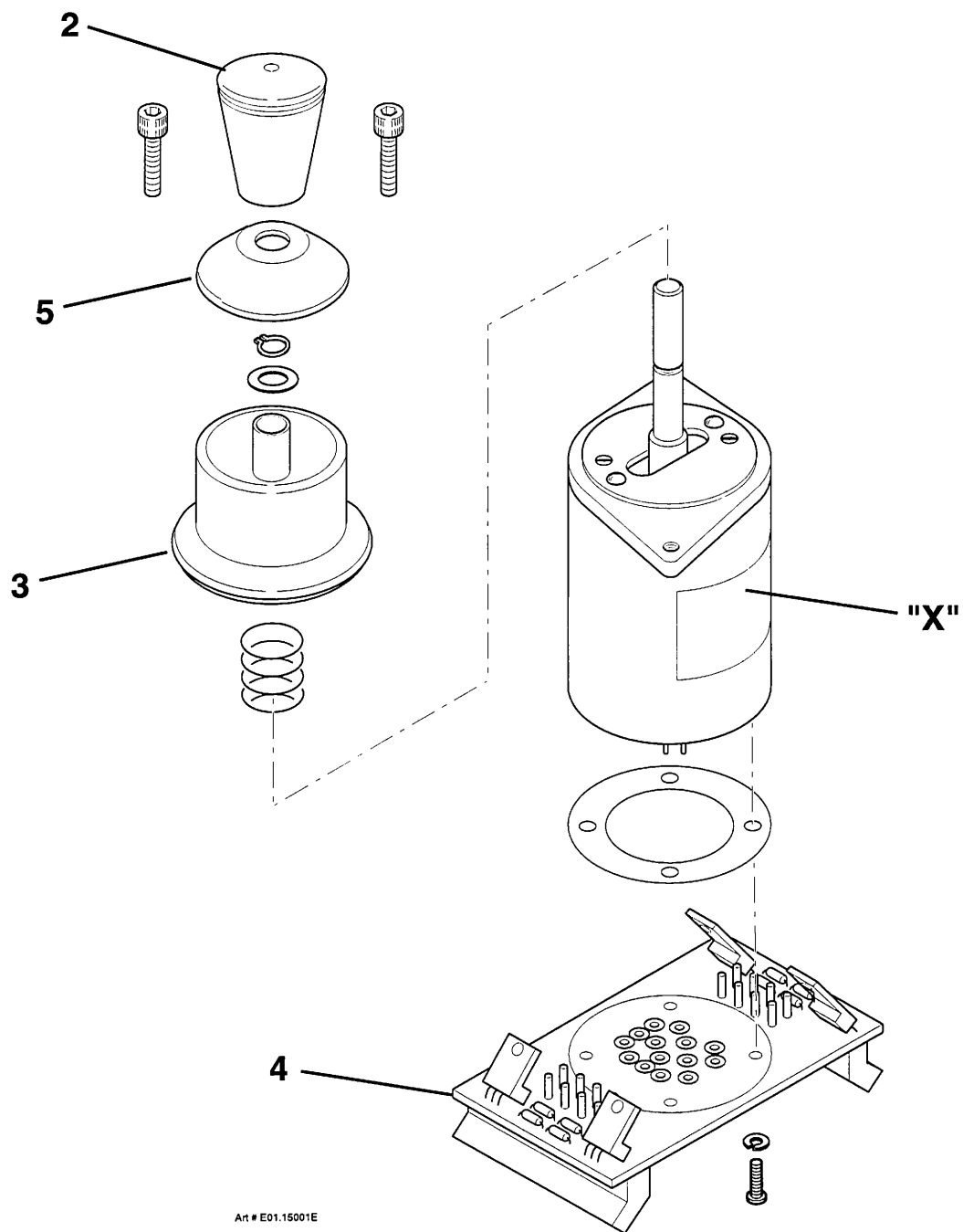
TITLE "MINI" JIB BOOM CONTROLLER, RP SERIES

PLATE NO. E01.15

SIMON AERIALS INC.

NEW 14 JUL., 1994

PART NO. 03-704700



Art # E01.15001E

TITLE

"MINI" JIB BOOM CONTROLLER, RP SERIES

SIMON AERIALS INC.

NEW 14 JUL., 1994

PART NO. 03-704700

PLATE NO. E01.15

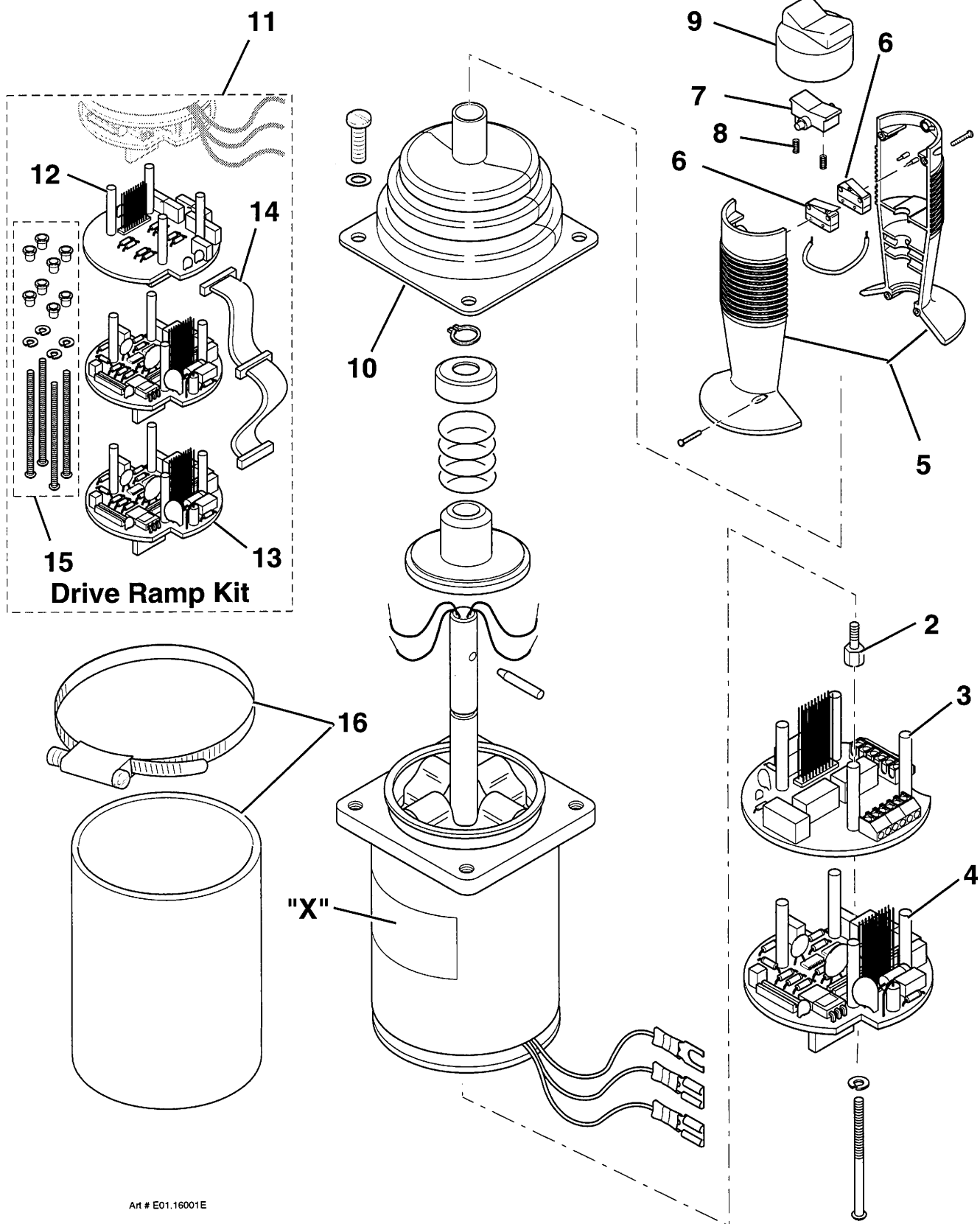
PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-735200		CONTROLLER ASSEMBLY, SINGLE AXIS (12 Volt, 33 Hz, with rocker switch in hand grip) (Identified on nameplate "X" as "MJ 412A-1043") Note: Some early controllers are marked "MJ 4121-1043", but these were modified and are identical to MJ 412A-1043.	1
2	03-495500		SPACER, STAND OFF	4
3	03-493600		SWITCH BOARD (for alarm functions)	1
4	03-491003		BOARD, DRIVER	1
5	03-491204		HANDLE (includes two halves and assembling hardware)	1
6	03-491205		MICRO SWITCH	2
7	03-491202		ROCKER, SWITCH	1
8			SPRING, SWITCH RETURN	2
9	03-491201		BOOT, ROCKER SWITCH	1
10	03-491001		BOOT, HANDLE (Gaiter)	1
			The following items are not included with Controller 03-735200, but are available for aftermarket installation:	
11	03-702100		RAMP KIT, DRIVE	1
12	03-494800		RAMP CARD	1
13	03-494900		DRIVE BOARD	2
14	03-495300		CABLE, JUMPER	1
15	03-702200		MOUNTING HARDWARE, DRIVE RAMP KIT	1
16	03-499500		COVER KIT, CONTROLLER (includes boot and clamp)	1
TITLE DRIVE/ STEER CONTROLLER, RP 46, RP 66, RP 120 PLATE NO. E01.16 SIMON AERIALS INC. NEW 01 FEB., 1996 PART NO.				

E01.16

SIMON AERIALS INC.

NEW 01 FEB. 1996

PART
NO.



Art # E01.16001E

TITLE

DRIVE/ STEER CONTROLLER, RP 46, RP 66, RP 120

SIMON AERIALS INC.

NEW 01 FEB., 1996

PART
NO.

PLATE
NO.

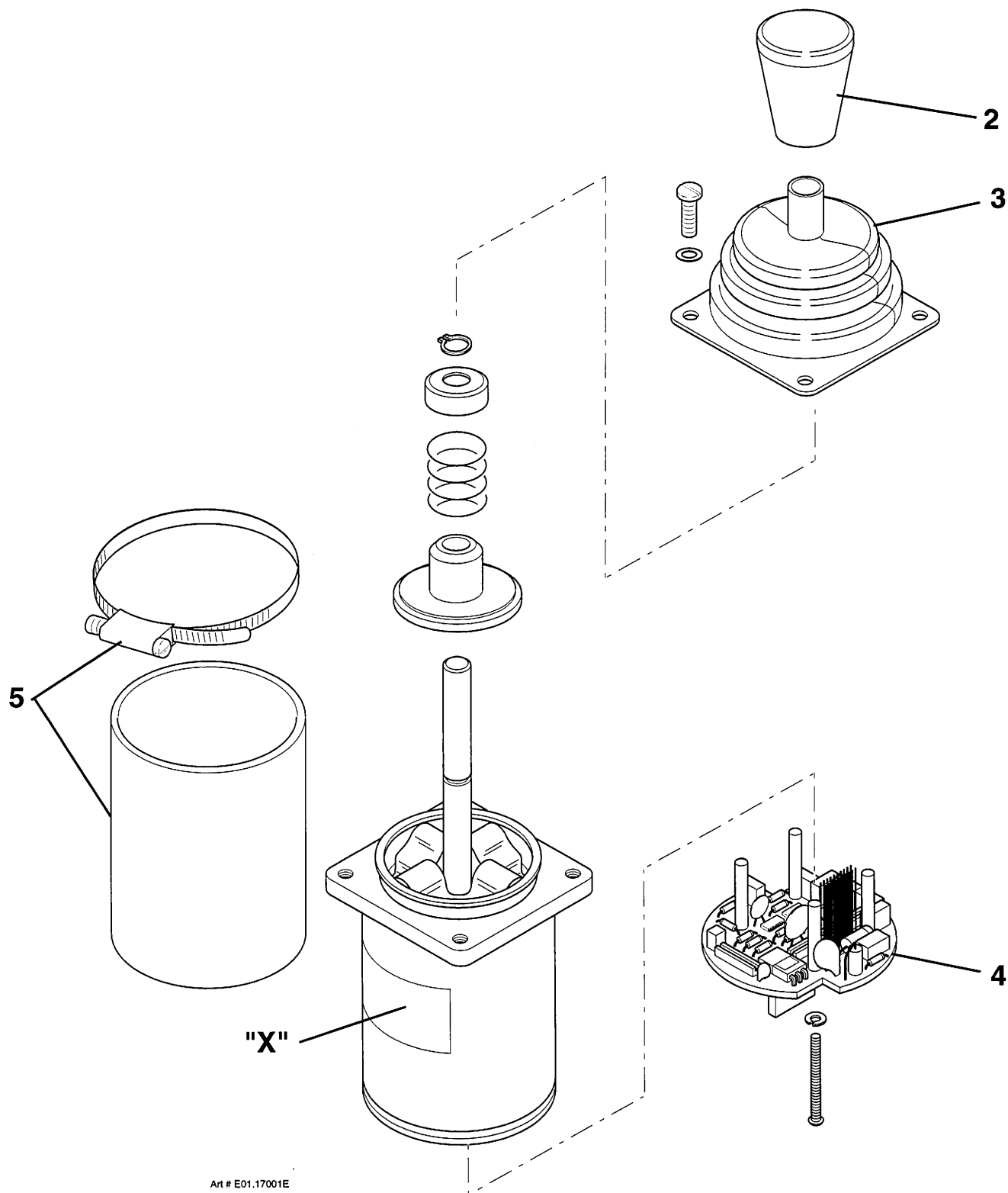
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E01.17

NEW 01 FEB., 1996

PART
NO.



TITLE

BOOM TELESCOPE CONTROLLER, RP 46, RP 66, RP 120

SIMON AERIALS INC.

NEW 01 FEB., 1996

PART
NO.

PLATE
NO.

E01.17

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	353 5050		PLATFORM WORK LIGHT PACKAGE (Flood lamps)	1
2	03-037900		LAMP, TRUCK (12 Volt DC) (incl. #4411 flood lamp bulb)	2
3	03-037902		LAMP, FLOOD (Sealed beam replacement bulb only) (#4411, 12 Volt DC) (See below for Spot lamp bulbs)	1
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	03-037900		LAMP, TRUCK (12 Volt DC) (includes #4416 spot lamp bulb)	2
16	No Part #		LAMP, SPOT (Sealed beam replacement spot bulb only) (#4416, 12 Volt DC) (See Item 17 for halogen bulb)	1
17	03-037901		LAMP, SPOT (Sealed beam replacement spot bulb only) (#H7604, 12 Volt DC, Halogen) (See Item 3 for Flood lamp)	1
18	353 5010		LIGHT PACKAGE (includes lamps for platform control panel, ground control panel, and engine compartment)	1
19	03-038800		LAMP, CONTROL PANEL (hooded)	2
20	03-418600		BULB, PANEL LAMP (#68, 12 Volt DC)	1
21	03-035500		LAMP, DOME (Engine compartment)	1
22	No Part #		BULB, DOME LAMP (#93, 12 Volt DC)	1
23	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item, order as needed. 6 Ft [1.8 M] needed here)	A.R.
24	03-092200		COUPLING, INSULATED (Male, Blue nylon, #14-16 AWG)	2
25	03-092300		COUPLING, INSULATED (Female, Blue nylon, #14-16 AWG)	2
26	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	2
27	07-090100		MACHINE SCREW, ROUND HEAD (#10-32 x 3/4")	6
28	07-062009		WASHER, FLAT (#8)	6
29	07-050111		NUT, LOCK (#10-32, Grade 2, with Nylon insert)	6

TITLE

OPTIONAL LIGHT PACKAGES (PLATE 1 OF 3)

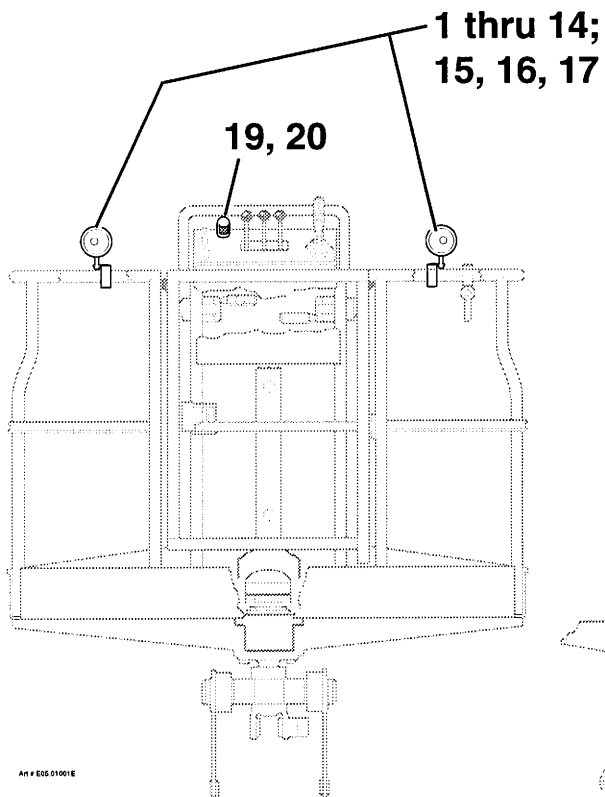
PLATE NO.

E05.01

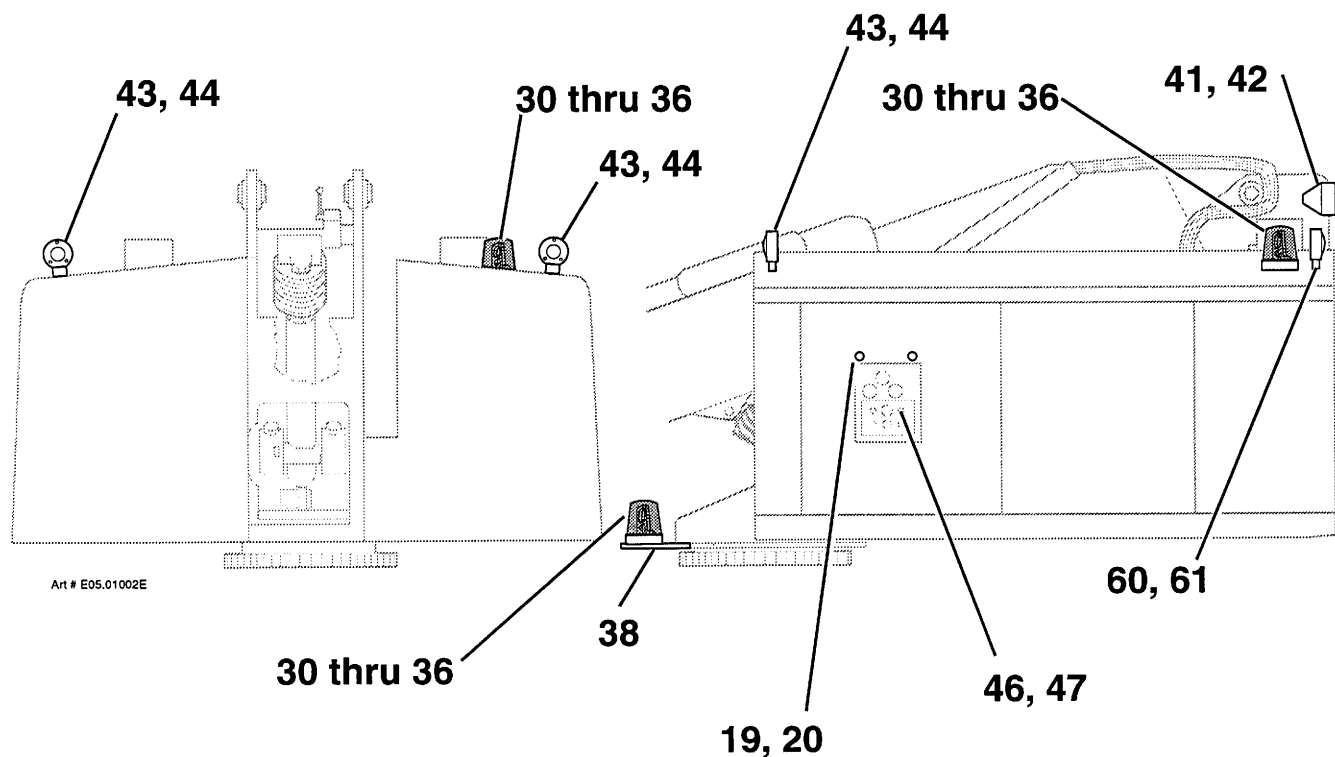
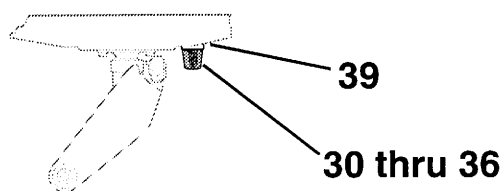
SIMON AERIALS INC.

REV. 23 MAR., 1995

PART NO.



NOTE: Views show typical lamp installation. Actual locations may vary per model and application.



TITLE

OPTIONAL LIGHT PACKAGES (PLATE 1 OF 3)

SIMON AERIALS INC.

REV. 23 MAR., 1995

**PART
NO.**

**PLATE
NO.**

E05.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
30	353 5030		ROTARY BEACON PACKAGE (Amber)	1
31	03-030600		BEACON, ROTARY (Amber , 12 Volt DC)	1
32	03-030601		LENS, ROTARY BEACON (Amber replacement lens)	1
33	No Part #		BULB, ROTARY BEACON (#1156, 12 Volt DC)	1
34	03-064800		GROMMET (Plastic)	1
35	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded)	
			(Bulk item, order as needed. 3 Ft [.91 M] needed here)	A.R.
36	03-092200		COUPLING, INSULATED	
			(Male, Blue nylon, #14-16 AWG)	1
37	No Part #		LENS, ROTARY BEACON (Red replacement lens only)	1
38	234 5630		BRACKET, ROTARY BEACON MOUNTING	
			(to superstructure rear, near swing motor)	1
39	222 8640		BRACKET, ROTARY BEACON MOUNTING	
			(to underside of platform)	1
40	353 5040		HEAD AND TAIL LIGHT PACKAGE	1
41	03-038000		HEADLAMP (Sealed beam)	2
42	No Part #		BULB, HEADLAMP (Sealed beam replacement bulb)	
			(#H 7609, 12 Volt DC, Halogen) (Also see Item 57)	1
43	03-031200		TAIL LAMP	2
44	No Part #		BULB, TAIL LAMP (#1157, 12 Volt DC)	1
45	03-020400		SWITCH, TOGGLE (2 position, maintained contact, single pole, single throw)	1
46	03-037500		SOCKET, RELAY (Double pole, snap mount)	1
47	03-050100		RELAY, PLUG IN (12 Volt DC, double pole)	1
48	03-085200		CABLE, ELECTRICAL (Type SJO, 2 cond., #16 AWG)	
			(Bulk item, order as needed. 20 Ft [6.1 M] needed here)	A.R.
49	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded)	
			(Bulk item, order as needed. 6 Ft [1.8 M] needed here)	A.R.
50	03-092200		COUPLING, INSULATED	
			(Male, Blue nylon, #14-16 AWG)	12
51	03-092300		COUPLING, INSULATED	
			(Female, Blue nylon, #14-16 AWG)	12
52	07-031001		STUD, WELD (1/4"-20 x 3/4")	28
53	07-050014		NUT, LOCK (1/4"-20, Grade 5)	28
54	07-062015		WASHER, FLAT (5/16")	28
55	10-060600		CLAMP, LOOP (3/8"	28
56	03-497900		SEAL, PANEL (for headlamp toggle switch)	1
57	No Part #		BULB, HEADLAMP (Sealed beam replacement bulb)	
			(#4419, 12 Volt DC) (See Item 42 for Halogen bulb)	1

TITLE

OPTIONAL LIGHT PACKAGES (PLATE 2 OF 3)

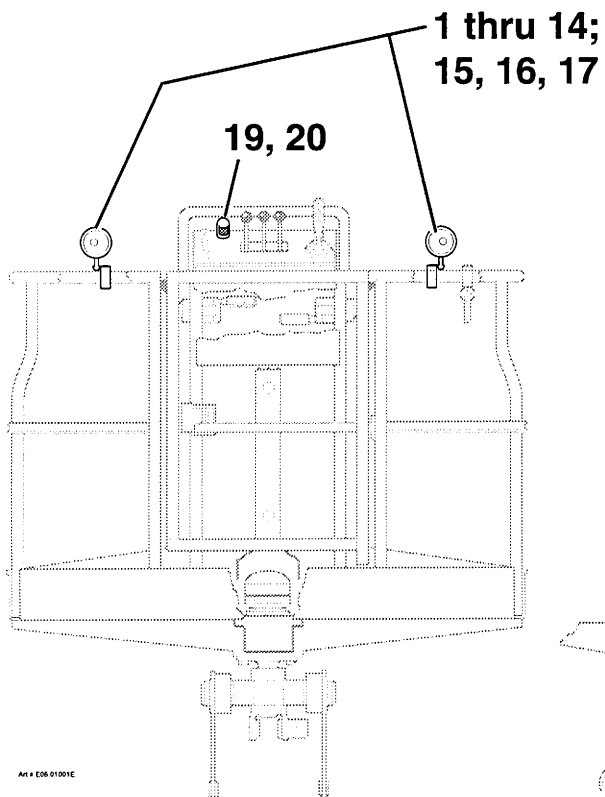
PLATE
NO.

E05.01

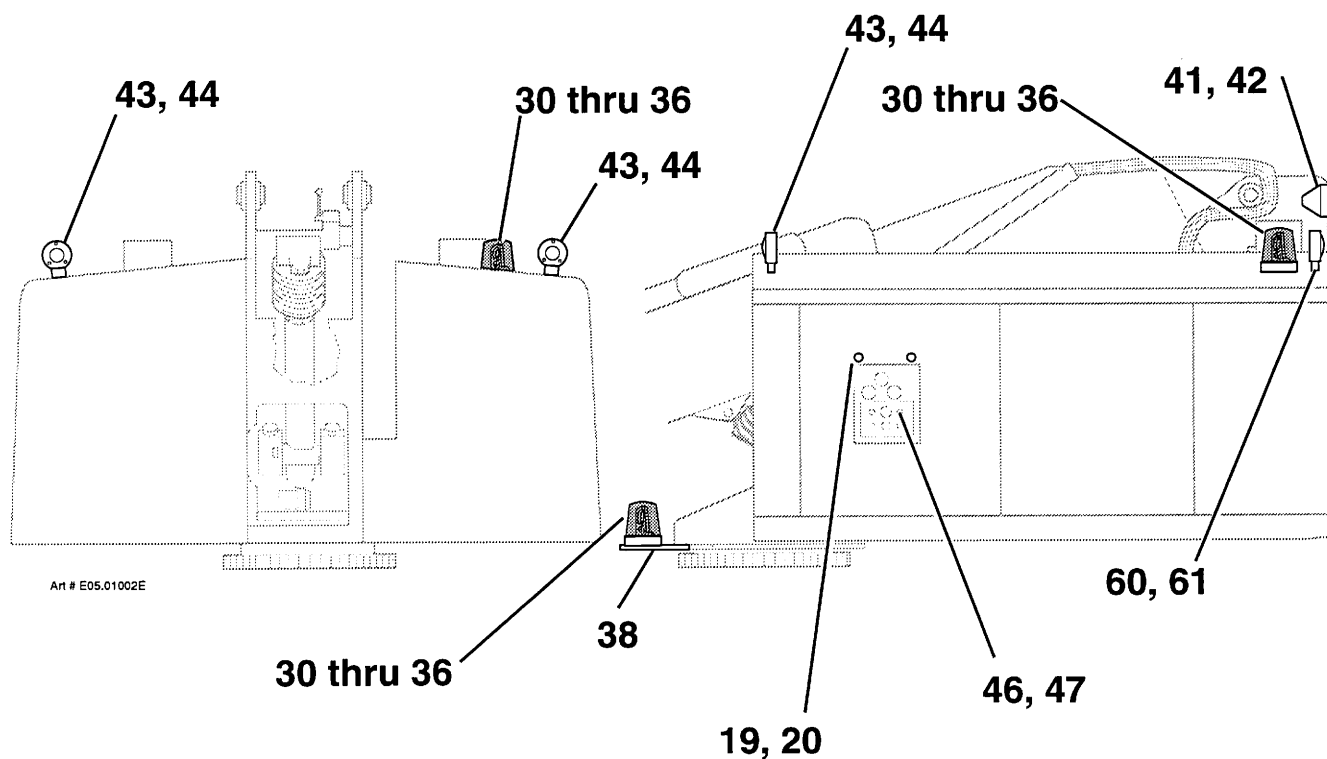
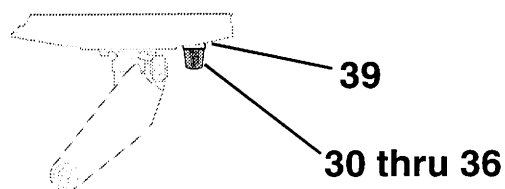
SIMON AERIALS INC.

REV. 23 MAR., 1995

PART
NO.



NOTE: Views show typical lamp installation. Actual locations may vary per model and application.



TITLE

OPTIONAL LIGHT PACKAGES (PLATE 2 OF 3)

SIMON AERIALS INC.

REV. 23 MAR., 1995

**PART
NO.**

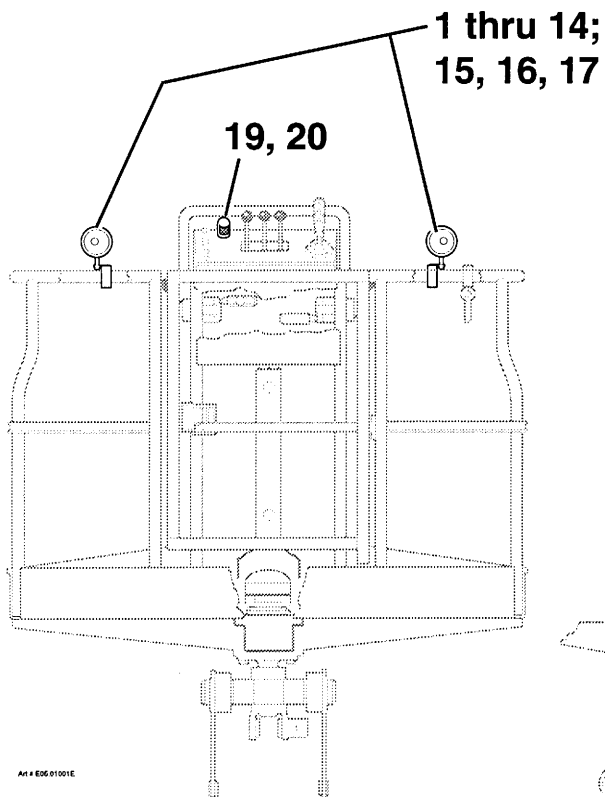
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NO.**

E05.01

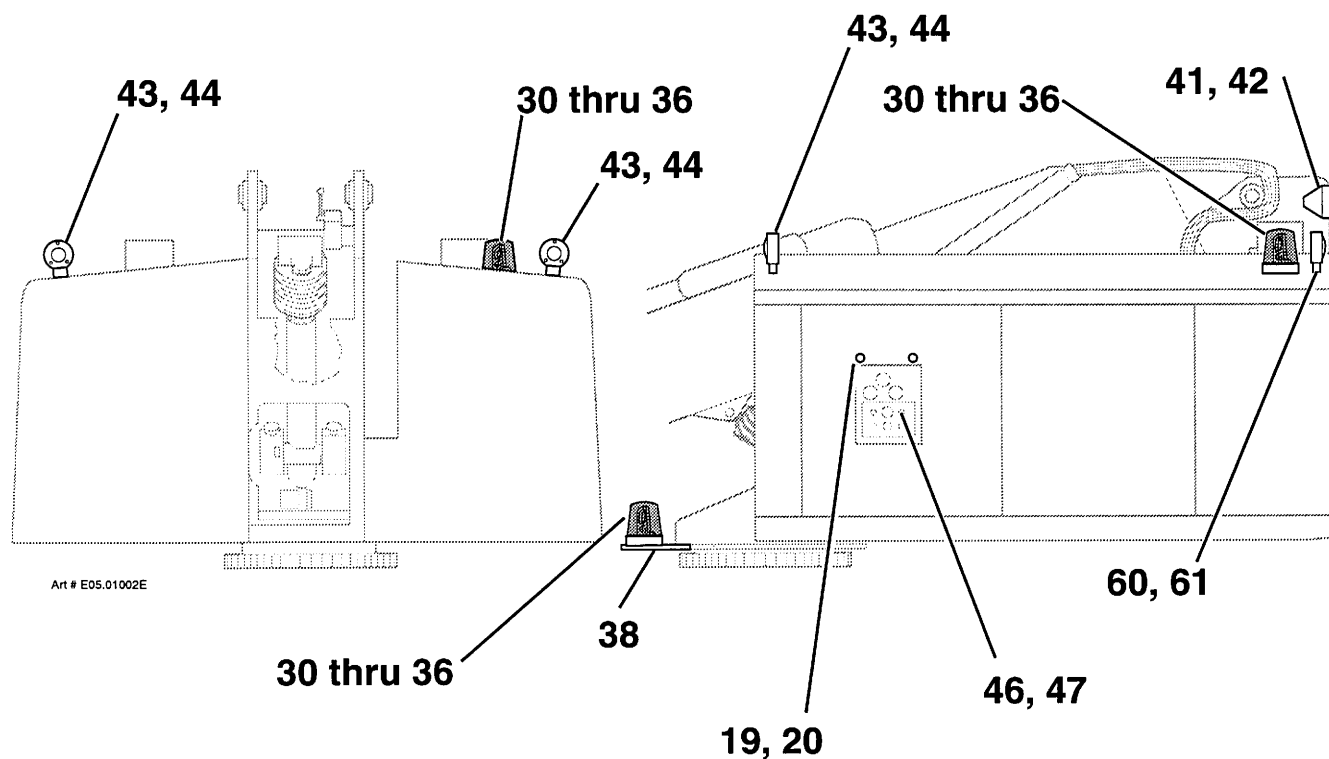
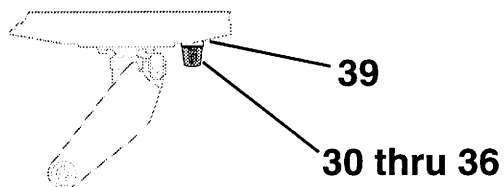
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PLATE NO.	E05.01	SIMON AERIALS INC.
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PART
NO.



NOTE: Views show typical lamp installation. Actual locations may vary per model and application.



TITLE

OPTIONAL LIGHT PACKAGES (PLATE 3 OF 3)

SIMON AERIALS INC.

REV. 23 MAR., 1995

**PART
NO.**

**PLATE
NO.**

E05.01

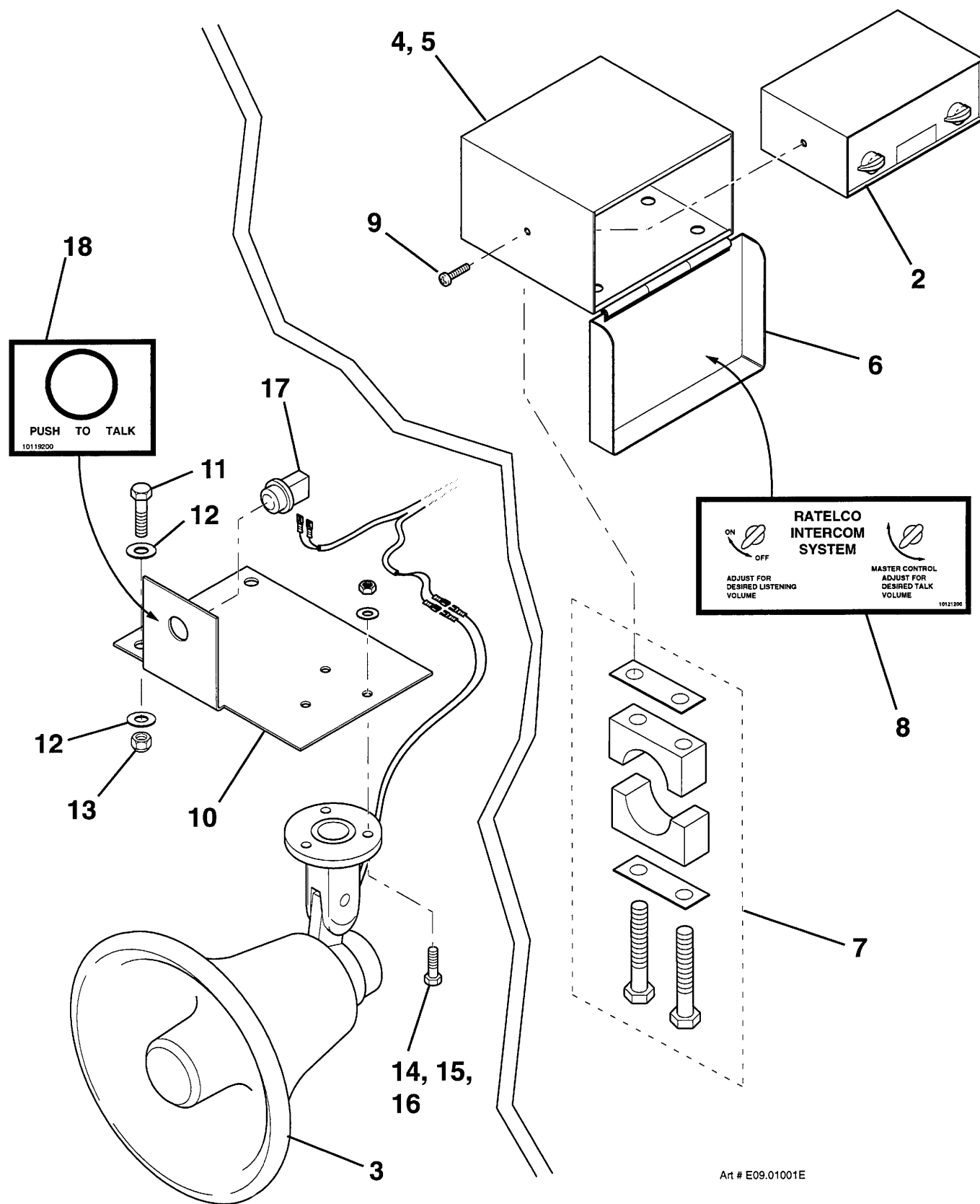
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PLATE NO. E09.01

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 38) reads "W2B2FZ313".	
1			HUB AND SPINDLE ASSEMBLY	1
2	02-041103		SPINDLE	1
3			HUB (HOUSING)	1
4	02-041108		SEAL, HUB	1
5	02-041107		CONE AND ROLLER, HUB BEARING (inner)	1
6	02-041106		CUP, HUB BEARING (inner)	1
7	02-041110		CONE AND ROLLER, HUB BEARING (outer)	1
8	02-041109		CUP, HUB BEARING (outer)	1
9			WASHER, FLAT (Tanged)	1
10			WASHER, LOCK (Tanged)	1
11	02-041111		NUT, BEARING	1
12			PLUG, PIPE (Magnetic)	2
13	02-000526		STUD, WHEEL MOUNTING (5/8"-18, Grade 5)	9
14	02-041120		COUPLING, MOTOR	1
15	02-041117		GEAR, INTERNAL	1
16			CARRIER ASSEMBLY, PLANETARY	1
17	02-041114		CASE, CARRIER	1
18	02-041112		SHAFT, PLANET	3
19	02-041116		GEAR, PLANET (Cluster Gear)	3
20	02-000540		ROLLER, NEEDLE	114
21			SPACER, THRUST	3
22	02-041113		WASHER, THRUST (Tanged)	6
23			PIN, ROLL (.164" x .75")	3
24			SHAFT ASSEMBLY, INPUT	1
25			SHAFT, INPUT	1
26	02-041119		SPRING	1
27			WASHER, THRUST (.778")	1
28			WASHER, THRUST (.900")	1
29			RING, RETAINING (Internal, 1-3/8")	1
30	02-000509		RING, RETAINING (External, 3/4")	1
31	02-041115		GEAR, INPUT (Sun Gear)	1
32			SPACER, INPUT (smaller dia.)	1
33			SPACER, INPUT (larger dia.)	1
34	02-041104		WASHER, THRUST	2
35	02-041118		GEAR, RING	1
36	02-041102		O-RING	2

TITLE

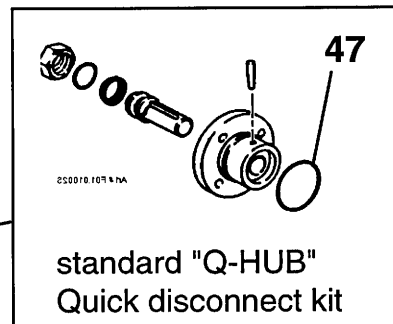
TORQUE HUB (13.3:1) (PLATE 1 OF 2)

PLATE NO. F01.101

SIMON AERIALS INC.

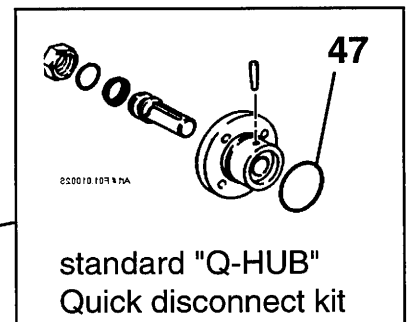
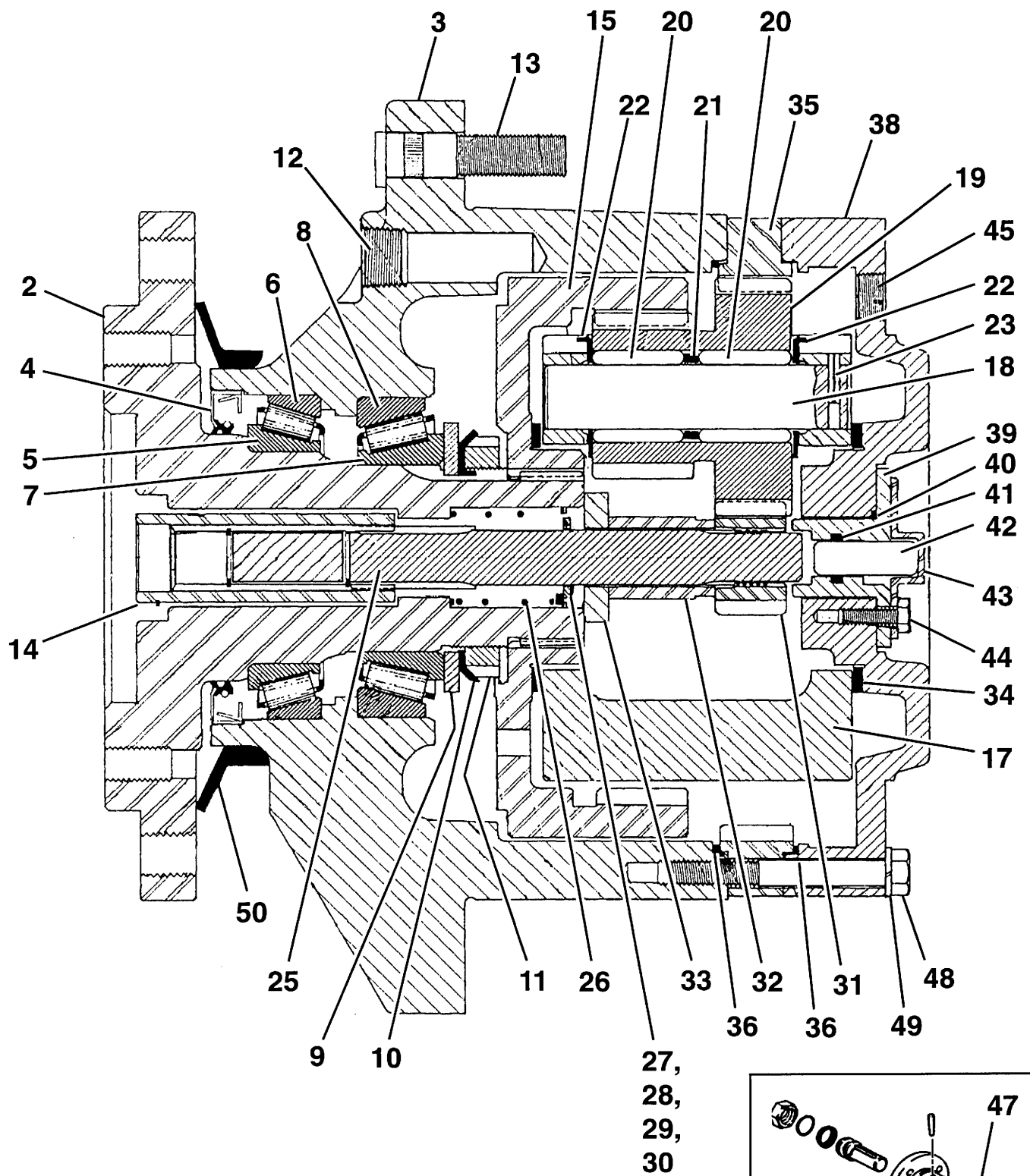
NEW 03 NOV., 1993

PART NO. 02-041100



F01.101

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
37			COVER ASSEMBLY, HUB	1
38			COVER, HUB	1
			Note: Items 39 through 45, although shown on the illustration, are not used on this model. The "Q-hub" quick-disconnect Cover Cap Kit (item 46) is standard, replacing items 39 through 45.	
39	not used		CAP, COVER	1
40	not used		"O"-RING	1
41	not used		"O"-RING	1
42	not used		ROD, DISCONNECT	1
43	not used		CAP, DISCONNECT	1
44	not used		BOLT (1/4"-20 x 3/4")	4
45	not used		PLUG, PIPE (Oil level check)	1
46	02-000510		CAP KIT, COVER (quick-disconnect "Q-hub" kit)	1
47	02-000523		SEAL, DISCONNECT CAP	1
48			BOLT (3/8"-16 x 3")	20
49	02-041105		WASHER, LOCK	20
50	02-041101		SEAL, BOOT	1
			The following item is not shown on the illustration:	
52	02-000619		RING, RETAINING (External, 1-1/4")	1
TITLE TORQUE HUB (13.3:1) (PLATE 2 OF 2)				
PLATE NO.	F01.101	SIMON AERIALS INC.		PART NO. 02-041100
NEW 03 NOV., 1993				



TITLE

TORQUE HUB (13.3:1) (PLATE 2 OF 2)

SIMON AERIALS INC.

NEW 03 NOV., 1993

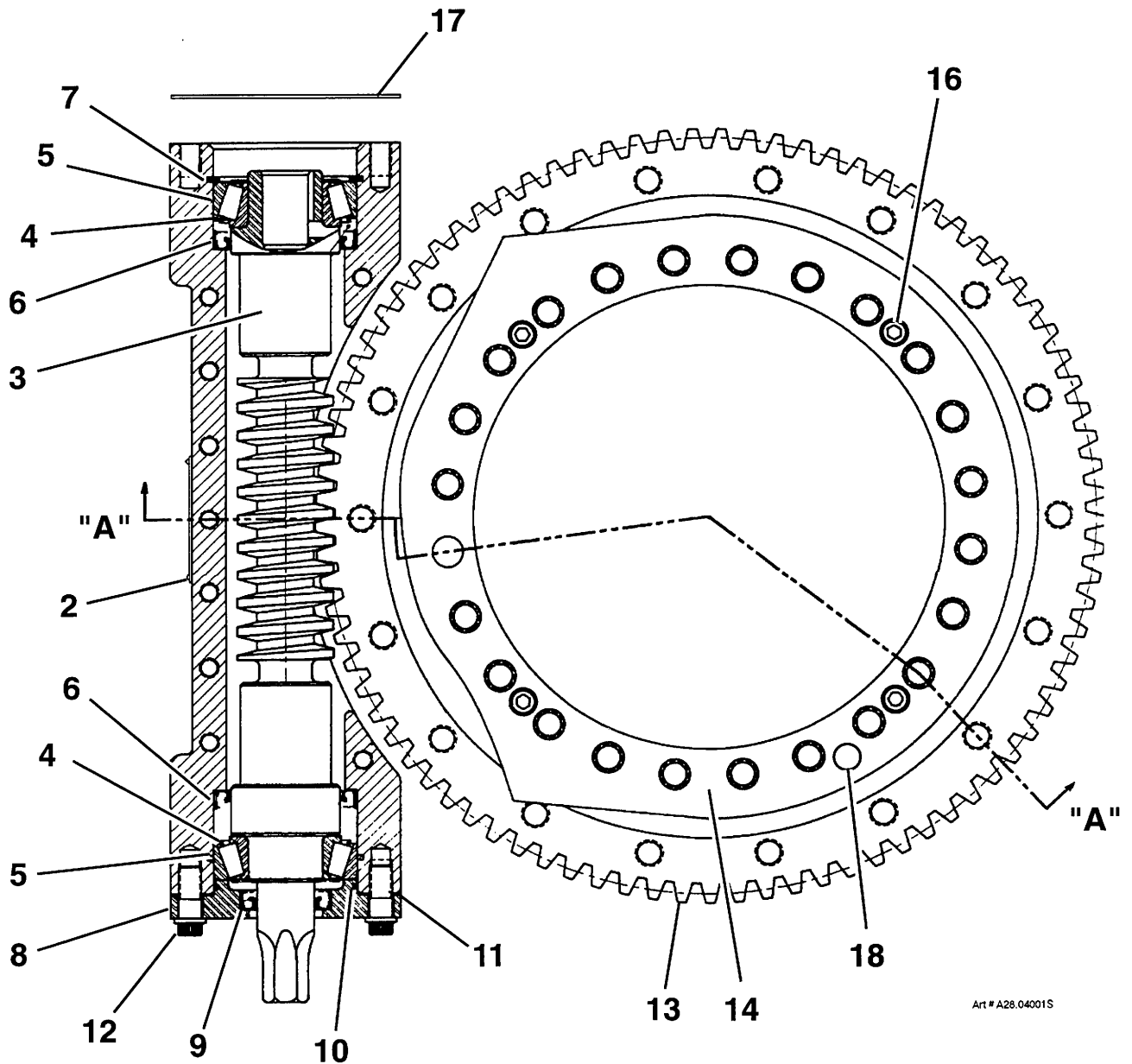
PART
NO.

02-041100

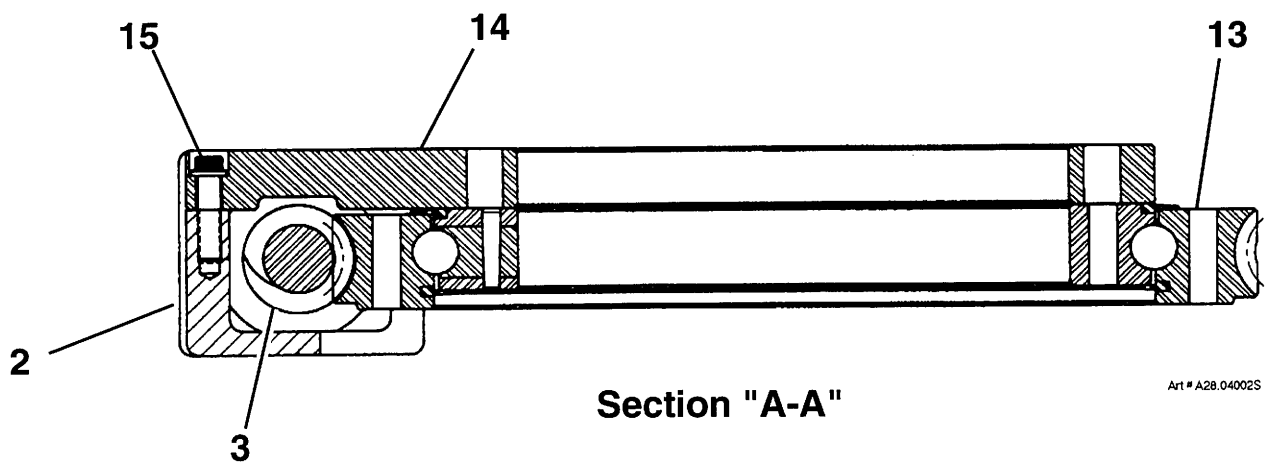
PLATE
NO.

F01.101

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	08-069000		SWING REDUCER ASSEMBLY	
2	08-069003		HOUSING, SWING REDUCER	1
3	08-068710		SHAFT, WORM	1
4	08-068705		CONE AND ROLLER, BEARING	2
5	08-068706		CUP, BEARING	2
6	08-068703		SEAL	2
7	08-068704		RING, SNAP (Input bearing)	1
8	08-068709		RETAINER, OUTPUT BEARING	1
9	08-068719		SEAL, OUTPUT BEARING	1
10	08-068702		"O"-RING	1
11	08-068716		SHIM [.005" (.127 mm) thick]	2
	08-068717		SHIM [.015" (.381 mm) thick]	2
	08-068718		SHIM [.030" (.762 mm) thick]	2
12	08-068715		CAP SCREW, FERRY (1/2"-13 x 1-1/4")	4
13	08-069001		BEARING, ROTATION	1
14	08-069002		PLATE, SUPERSTRUCTURE MOUNTING	1
15	08-069004		CAP SCREW, FERRY (7/16"-14 x 3-1/2")	9
16	08-068714		CAP SCREW, SOCKET HEAD (3/8"-16 x 1-1/4")	4
17	02-023502		GASKET, HYDRAULIC MOTOR [1/32" (.794 mm) thick]	1
18	08-068720		PIN, DOWEL	2
			The following items are not part of Swing Reducer Assembly 08-069000:	
19	01-210200	D06.101	MOTOR, HYDRAULIC [10 c.i. (164 c.c.)]	1
20	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	2
21	07-062018		WASHER, FLAT (1/2" SAE)	2
22	07-065018		WASHER, HELICAL LOCK (1/2")	2
23	10-126400		LUBRICANT, OPEN GEAR (Caulk tube)	
			(for use on swing gear teeth)	A.R
TITLE SWING REDUCER ASSEMBLY, TRAILBLAZER				
PLATE NO.	F02.101	SIMON AERIALS INC.		PART NO. 08-069000
		NEW 08 JAN., 1993		



Art # A28.04001S



Art # A28.04002S

TITLE

SWING REDUCER ASSEMBLY, TRAILBLAZER

SIMON AERIALS INC.

NEW 08 JAN., 1993

PART
NO.

08-069000

PLATE
NO.

F02.101

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			DECAL KIT, RP 46 "REACH PLUS" (Not available. Purchase decals individually.)	
2	10-130600		DECAL, "DANGER" (Hazard listing, at Ground controls)	1
3	10-145100		DECAL, "DANGER" (Electrocution)	2
4	10-142100		DECAL, "DANGER" (Hazard listing, at Platform controls)	1
5	10-272600		DECAL, "CAUTION" ("Safety belt lanyard . . .")	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	10-012600		DECAL, "OPEN HYDRAULIC TANK VALVES . . ."	1
9			PLACARD, FUEL "GASOLINE ONLY" "DIESEL FUEL ONLY"	1
10	10-151300		PLACARD, "HYDRAULIC FLUID ONLY"	1
11	10-144300		DECAL, GROUND ELECTRICAL CONTROLS	1
12			DECAL, GROUND CONTROL VALVES	1
	10-244100		Current version (indicates Boom extend left , retract right)	
	10-169700		Earlier version (indicates Boom retract left , extend right)	
13	10-131500		PLATE, REMOTE CONTROL PENDANT	1
14	10-007200		DECAL, "ENSURE LOCK PIN IS DISENGAGED . . ."	2
15	10-148300		DECAL, "Platform capacity 500 Lbs (225 Kg)" (4-1/2" [114 mm] wide, black letters on white background)	4
16	10-012900		DECAL, "FORWARD" WITH ARROW	2
17	10-157100		DECAL, MANUAL BRAKE RELEASE Current version, "CAUTION", "Machine will free wheel . . ."	1
			Earlier version, "Machine will roll freely on slopes . . ."	
			NOTE: Current version will be supplied	
18	10-169100		PLACARD, PLATFORM CONTROLS	1
19	10-147400		DECAL, PLATFORM LEVEL AND ROTATE CONTROLS	1
20	10-139800		DECAL, "OPERATOR'S MANUAL ENCLOSED"	1
21	10-016800		DECAL, "GAS/ OFF/ PROPANE"	
			(for versions with Wisconsin Dual fuel engines)	1
22	10-108600		DECAL, "FOR PROPER OPERATION - SET FUEL . . ." (for versions with Ford or Wisconsin Dual fuel engines)	
			(Decal is marked "2157710")	1
23	10-150100		DECAL, MANUAL LOWER AND RETRACT INSTRUCTION (for versions with optional manual lowering valves)	1

TITLE

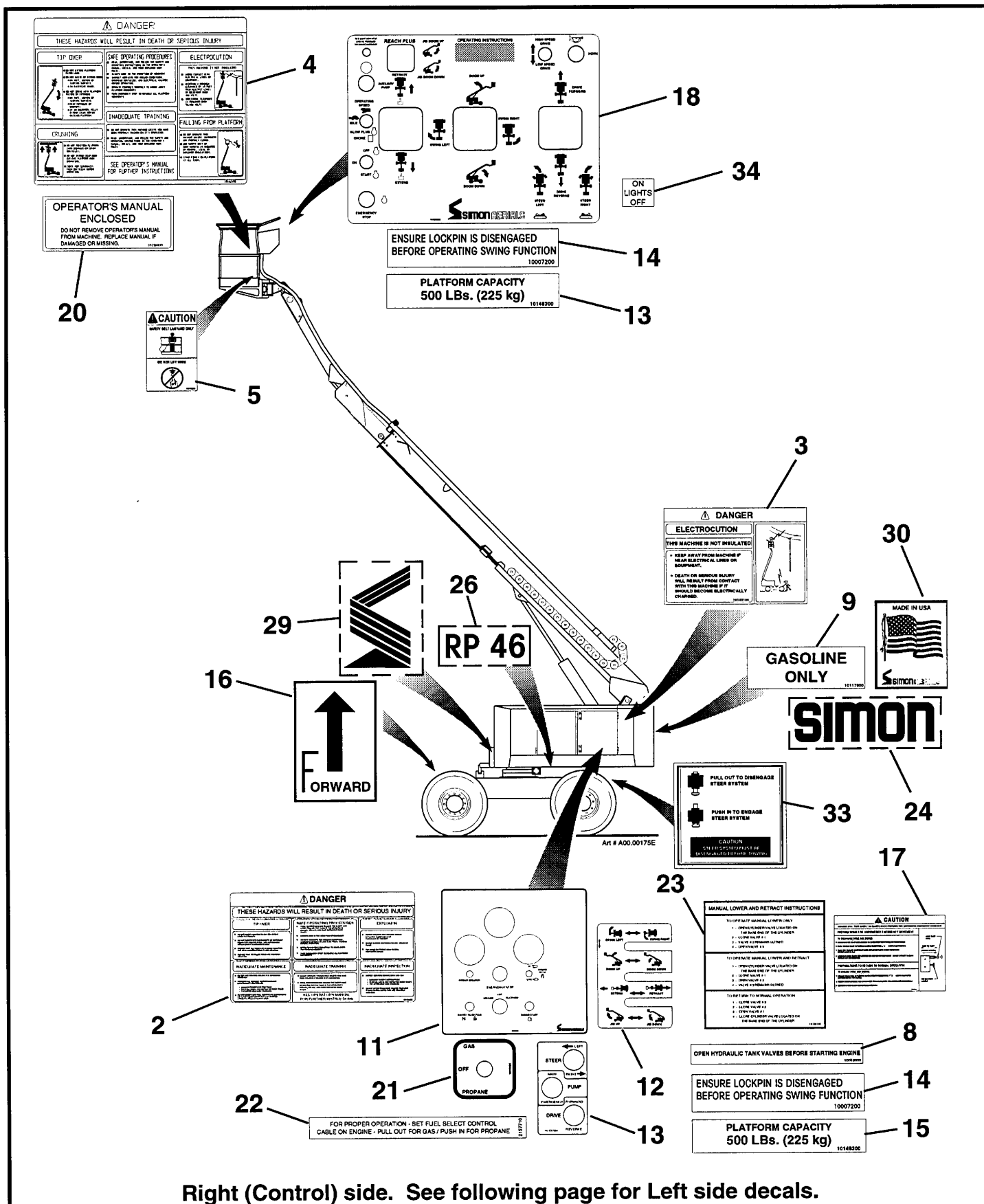
DECALS, RP 46 (PLATE 1 OF 2)

PLATE NO. **F99.203**

SIMON AERIALS INC.

REV. 20 FEB., 1997

PART NO.



TITLE

DECALS, RP 46 (PLATE 1 OF 2)

SIMON AERIALS INC.

REV. 20 FEB., 1997

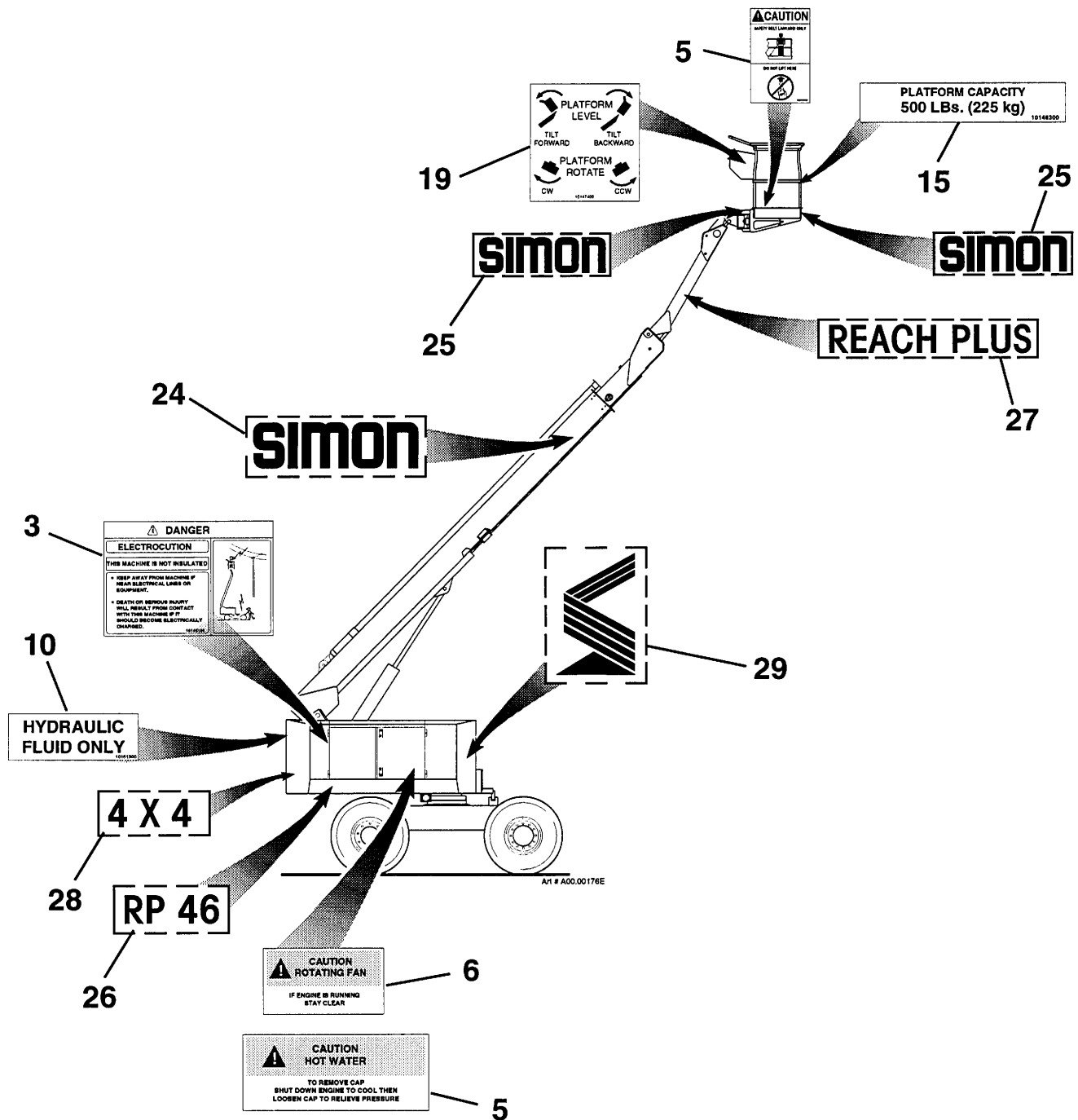
PART
NO.

PLATE
NO. **F99.203**

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DECALS, RP 46 (PLATE 2 OF 2)

PART
NO.



Left (Engine) side. See previous page for Right side decals.

TITLE

DECALS, RP 46 (PLATE 2 OF 2)

SIMON AERIALS INC.

REV. 20 FEB., 1997

PART
NO.

PLATE
NO. F99.203