

MODEL MPH 60 (SPECIAL)

Featuring "SIMCON" Control System

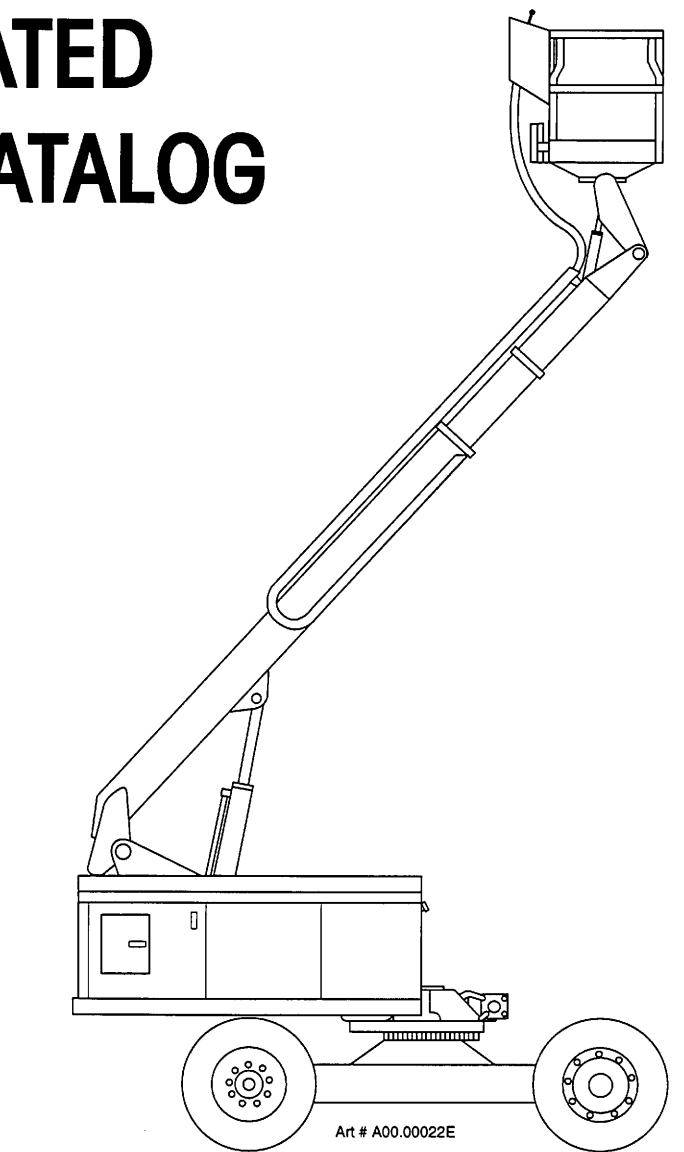


TEREX AERIALS

Milwaukee, Wisconsin

ILLUSTRATED PARTS CATALOG

FOR MACHINE
SERIAL NUMBER



Part No. 89-162495 • Initial Issue, dated May, 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 MPH 60 equipped with "SIMCON" controls and with NO PLATFORM. All parts represented here are manufactured and supplied in accordance with our quality standards. We recommend that you use GENUINE FACTORY-AUTHORIZED PARTS to insure proper OPERATION and reliable PERFORMANCE.

Please contact Terex Parts Distribution Center for latest prices and availability.

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 these SPECIAL MPH 60 "SIMCON" machines are included in this Catalog.

The "Primary Machine Component Groups" page illustrates the **three** 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 **three** sections (B01 through B03) 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:

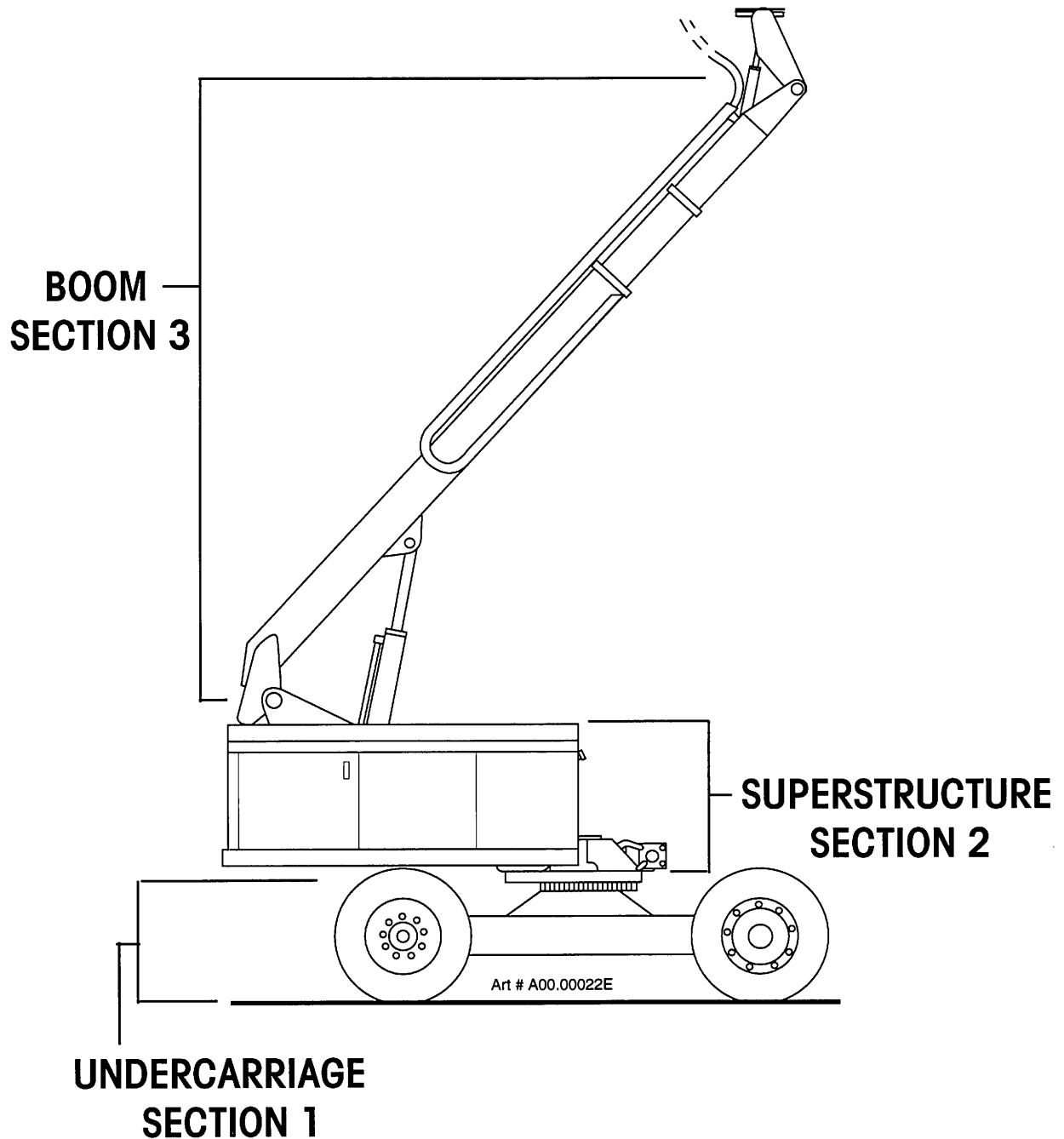
4. Parts Plate number, Item Number and Description of the desired item, OR
5. Part Number of the next assembly (Parent Part), if the desired item is not listed.

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 Boom end of the machine, facing the Superstructure, with the Boom in stowed position (over the non-steering axle). All dimensions are in inches unless otherwise specified.

TEREX AERIALS 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 TEREX AERIALS manuals are periodically updated to reflect changes that occur in the equipment. Please contact Terex Parts Distribution Center with any questions you may have regarding your particular machine, or the availability of more recent manuals.



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

TITLE

PRIMARY MACHINE COMPONENT GROUPS, MPH 60 (SPECIAL)

PART
NO.

REV.

-

DATED
MAY, 1997

SECTION

PLATE NO.

PAGE

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 9760		UNDERCARRIAGE GROUP (MPH 60, 2WD, with Tri-Flow Manifold)	1
2	237 0730		UNDERCARRIAGE WELDMENT	1
3	210 6320		COLLAR, LOCK (1.5")	2
4	214 4330		COLLAR, LOCK (1.5")	1
5	207 0746		LOCK, ELECTRICAL SWIVEL	1
6	352 9910	C01.19	SPINDLE ASSEMBLY (Right hand)	1
7	352 9920	C01.19	SPINDLE ASSEMBLY (Left hand)	1
8	08-014100		WASHER, THRUST (1.5" I.D., 3.5" O.D.)	2
9	210 5980		PIN, STEER ARM (1.50" dia. x 11.75" long)	2
10	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	2
11	07-058400		NUT, LUG (1/2"-13, Grade 8)	2
12	351 0483		TIE ROD ASSEMBLY	2
13	210 5110		TIE ROD	1
14	08-007100		END, TIE ROD (R.H. thread)	1
15	08-060600		END, TIE ROD (L.H. thread)	1
16	08-053100		FITTING, GREASE (1/4"-28, Straight)	2
17	07-047122		NUT, JAM (3/4"-16, R.H. thread, Grade 2)	1
18	07-047222		NUT, JAM (3/4"-16, L.H. thread, Grade 2)	1
19	07-004650		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/4", Grade 8)	2
20	07-047122		NUT, HEX JAM (3/4"-16, Grade 2)	2
21	07-004651		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/2", Grade 8)	2
22			ARM, CENTER STEER	1
	200 4208		Without tow package	
	210 3610		With optional tow package	
23	200 4277		SPACER, CENTER STEER ARM (0.88" [22 mm] thick)	1
24	08-053100		FITTING, GREASE (1/4"-28, Straight)	1
25	08-066300		CAP, GREASE FITTING (White plastic)	1
26	08-002000		BEARING, FLANGED (1.5" I.D., 1.75"-2.0" O.D., 1.5" long)	2
27	218 6910		PIN, STEER ARM (1.50" dia. x 11.75" long)	1
28	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	1
29	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
30	04-035300	D01.11	CYLINDER, STEER	1
31	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S)	2
32	217 1250		PIN, STEER CYLINDER (1.0" dia. x 3.44") (rod end)	1
33	08-040600		RING, RETAINING (1")	2
34	04-003401		PIN, STEER CYLINDER (1.0" dia. x 3.50" long) (base end)	1
35	04-003404		CLIP, HAIR PIN	2

TITLE

UNDERCARRIAGE GROUP, MPH 60 (2WD)

SECTION

B01.

PLATE NO.

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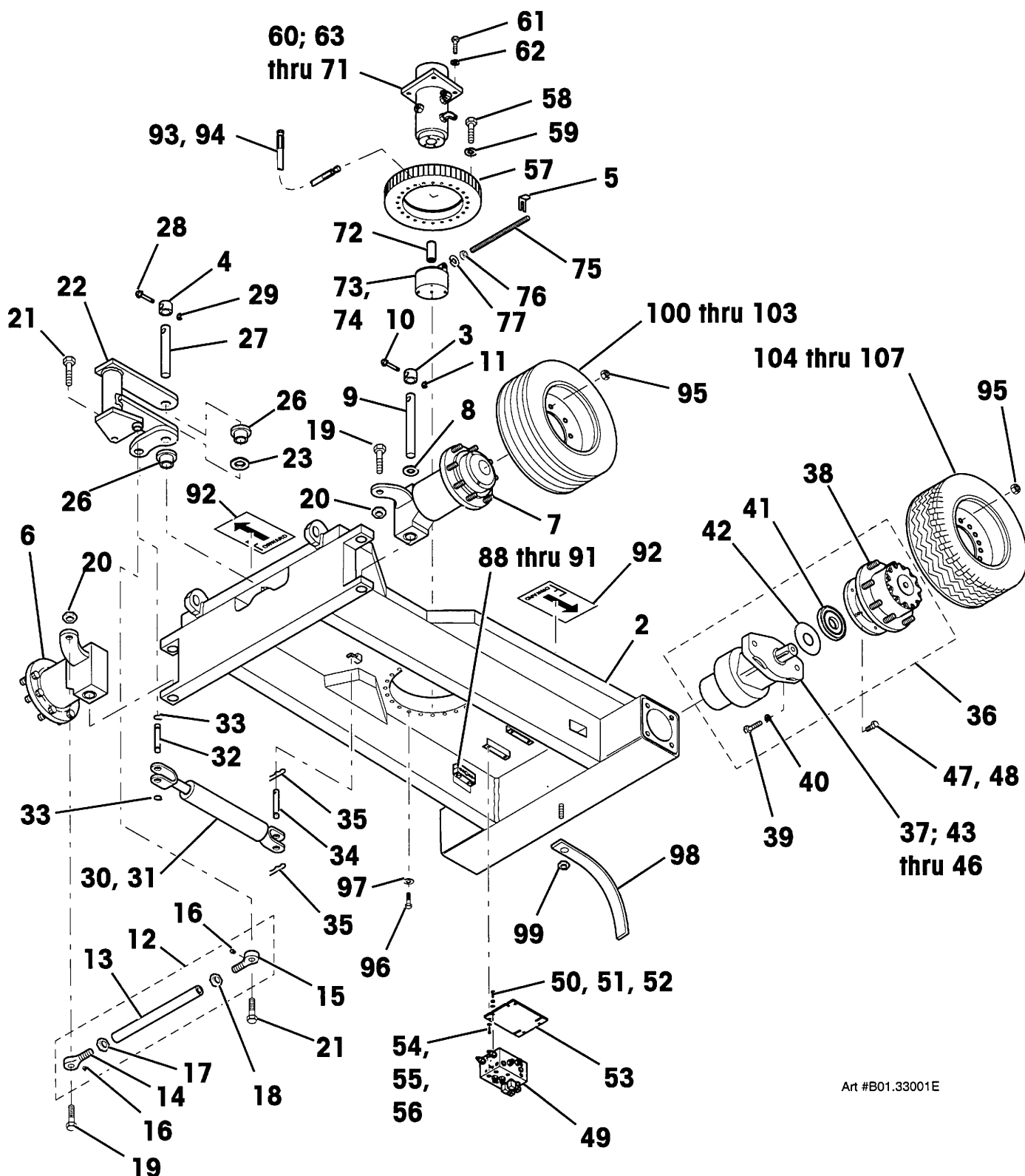
31 JAN., 1997

PART NO.

354 9760

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Art #B01.33001E

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UNDERCARRIAGE GROUP, MPH 60 (2WD)

PART NO.

354 9760

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DATED

31 JAN., 1997

SECTION

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PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
36	354 5330		UNDERCARRIAGE ASSEMBLY (continued)	2
37	01-064200	D03.09	DRIVE HUB ASSEMBLY	1
38	02-048500	F01.08	MOTOR, HYDRAULIC (with brake)	1
39	07-003086		HUB, TORQUE	2
40	07-065018		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	2
41	01-030900		WASHER, HELICAL LOCK (1/2")	1
42	217 6980		SEAL, MOTOR TO TORQUE HUB	A.R.
43	06-097400		SPACER, MOTOR TO TORQUE HUB	4
44	06-040800		ADAPTER, 90° BENT STEM (4 IT3-12-12)	4
45	06-039300		ADAPTER, "O"-RING TO 37° (12 F50X-S)	2
46	06-043000		ADAPTER, "O"-RING TO 37° (4 F50X-S)	2
47	07-004128		ADAPTER (LONG), "O"-RING TO 37° (6 FF50X-S)	16
48	07-061021		CAP SCREW, HEX HEAD (5/8"-11 x 1-3/4", Grade 8)	16
49	355 0800	C12.06	WASHER, FLAT (5/8", hardened)	1
50	07-003045		VALVE ASSEMBLY, DRIVE	4
51	07-065016		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
52	07-062016		WASHER, HELICAL LOCK (3/8")	8
53	236 1790		WASHER, FLAT (3/8")	1
54	07-003046		PLATE, VALVE MOUNTING	4
55	07-062016		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	8
56	07-050016		WASHER, FLAT (3/8")	4
57	08-080600		NUT, TOP LOCK (3/8"-16, Grade 5)	1
58	07-004660		SWING BEARING	18
59	07-061022		CAP SCREW, HEX HEAD (3/4"-16 x 5-1/2", Grade 8)	18
			WASHER, FLAT (3/4" SAE)	

TITLE

UNDERCARRIAGE GROUP, MPH 60 (2WD)

SECTION

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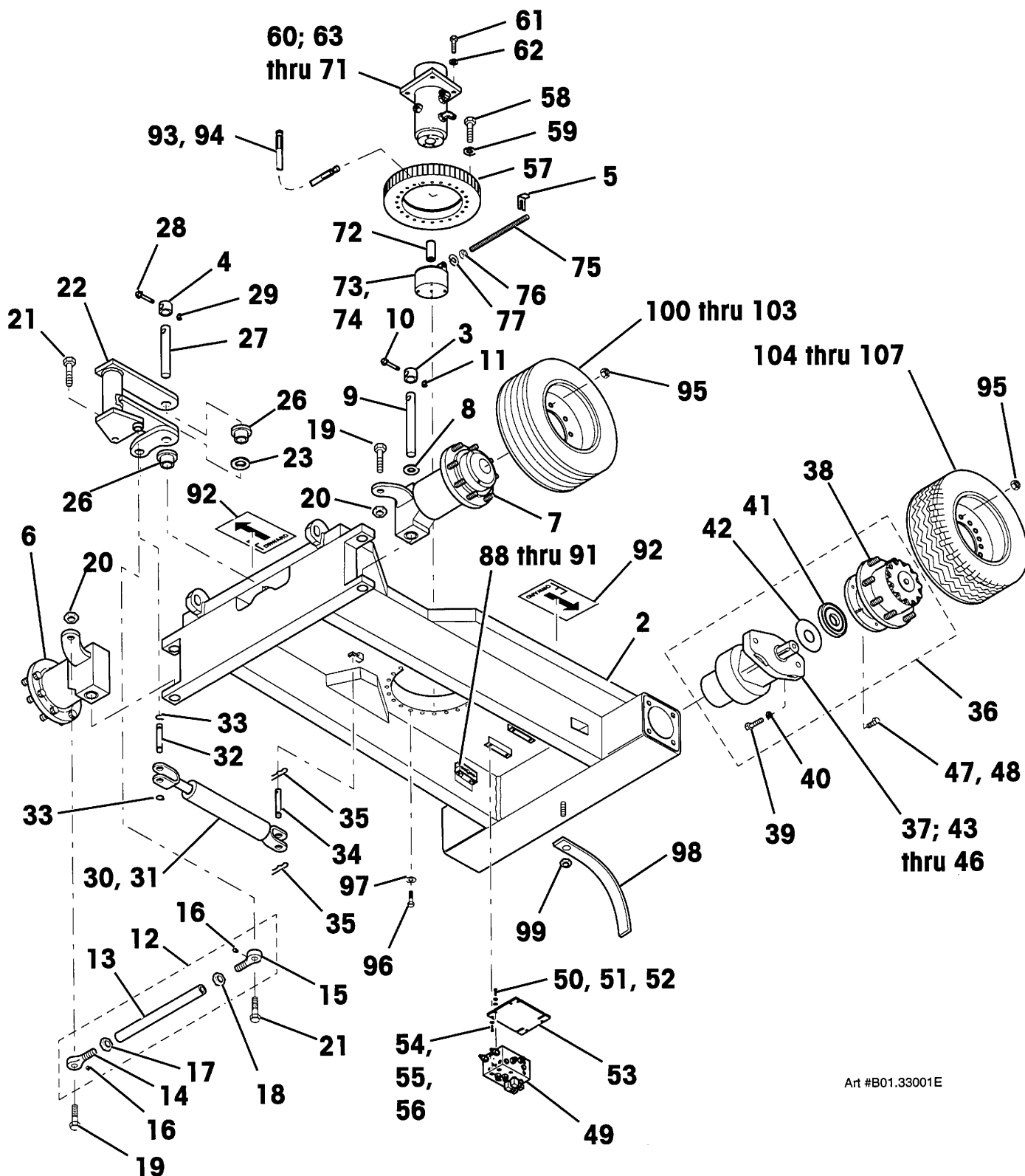
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UNDERCARRIAGE GROUP, MPH 60 (2WD)

PART NO.

354 9760

REV.

DATED
31 JAN., 1997

SECTION

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02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
60	04-008700	D02.01	UNDERCARRIAGE ASSEMBLY (continued)	1
61	07-003085		SWIVEL, HYDRAULIC	4
62	07-065018		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	4
63	06-041400		WASHER, HELICAL LOCK (1/2")	2
			Ports 1 and 2, Hydraulic Swivel top section:	
			ADAPTER, "O"-RING TO 37° (16 F50X-S)	3
64	06-039900		Ports 3, 4 and 5, top section:	
			ADAPTER, "O"-RING TO 37° (6-8 F50X-S)	1
65	06-095100		Port 6, top section:	
			PLUG, HEX SOCKET "O"-RING (8 HP50N-S)	1
66	06-071400		Center port, top section:	
			REDUCER, PIPE THREAD (3/4 x 1/2 PTR-S)	1
67	06-001000		CONNECTOR, MALE 37° TO NPT (6-8 FTX-S)	1
			Ports 1 and 2, Hydraulic Swivel bottom section:	
68	06-045800		90° ELBOW, "O"-RING TO 37° (16 C50X-S)	2
			Ports 3, 4 and 5, bottom section:	
69	06-044700		90° ELBOW, "O"-RING TO 37° (6-8 C50X-S)	3
			Port 6, bottom section:	
70	06-095100		PLUG, HEX SOCKET "O"-RING (8 HP50N-S)	1
			Center port, bottom section (for electrical swivel):	
71	11-020010		NIPPLE, PIPE THREAD (3/4 NPT x 2" long)	1
72	206 7559		ADAPTER, ELECTRICAL SWIVEL TO HYDRAULIC SWIVEL	1
73	03-037300		SWIVEL, ELECTRICAL (3 circuit, 15 Amp, 12 Volt DC)	1
74	03-041000		GRIP, CORD (Plastic, 1/2", with .38" to .44" seal)	1
75	11-007006		ROD, THREADED (1/2"-13, Grade 2. 3 ft [.914 m] piece.	
			11.25" [28.6 cm] needed in this application.)	A.R.
76	07-040018		NUT, HEX (1/2"-13, Grade 5)	1
77	07-065018		WASHER, HELICAL LOCK (1/2")	1

TITLE

UNDERCARRIAGE GROUP, MPH 60 (2WD)

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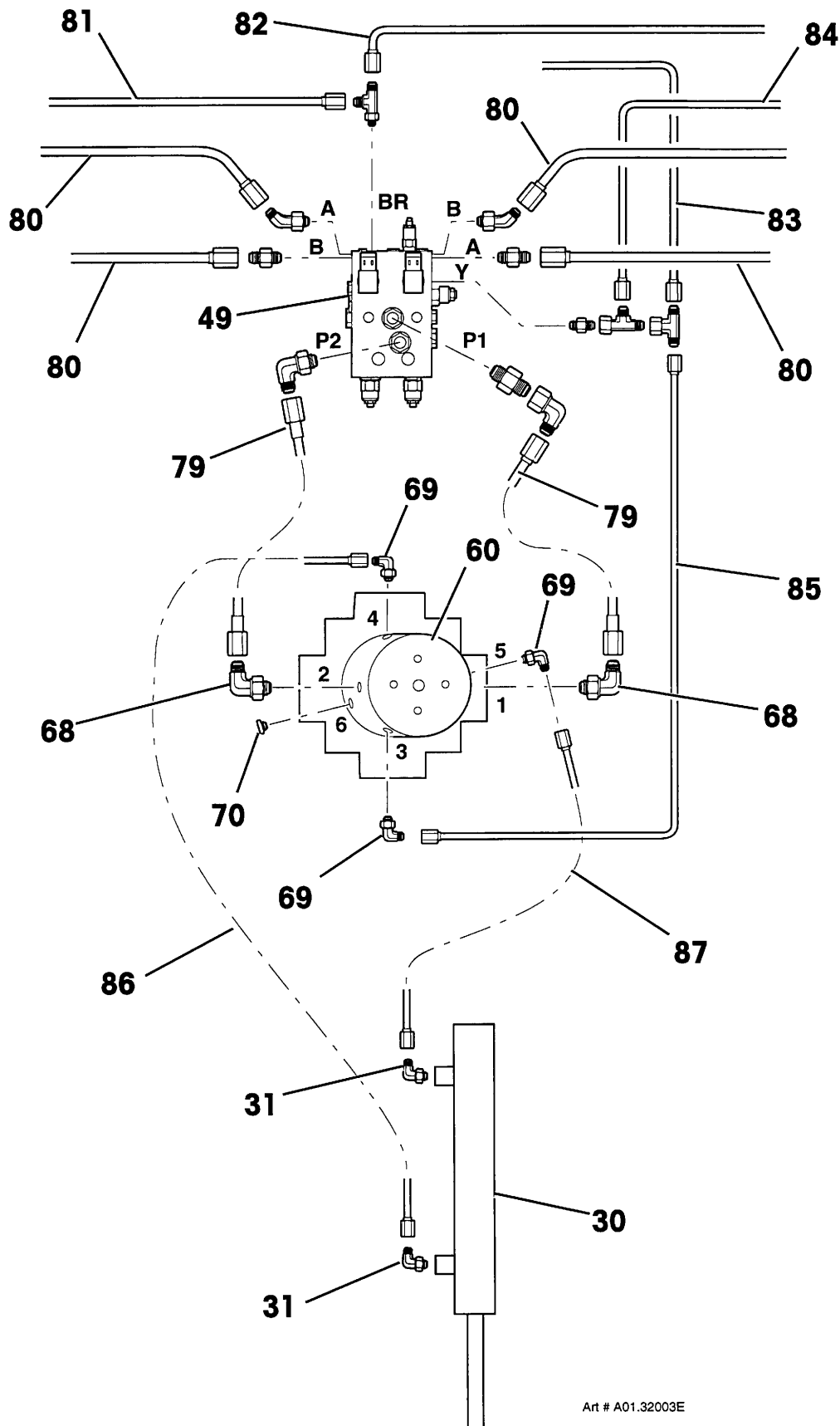
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PART NO.

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Art # A01.32003E

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TITLE

UNDERCARRIAGE GROUP, MPH 60 (2WD)

PART NO.

354 9760

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DATED

31 JAN., 1997

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PARTS LIST

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

TITLE

UNDERCARRIAGE GROUP, MPH 60 (2WD)

SECTION

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04

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DATED

31 JAN., 1997

PART NO.

354 9760

Simon Aerials Inc.

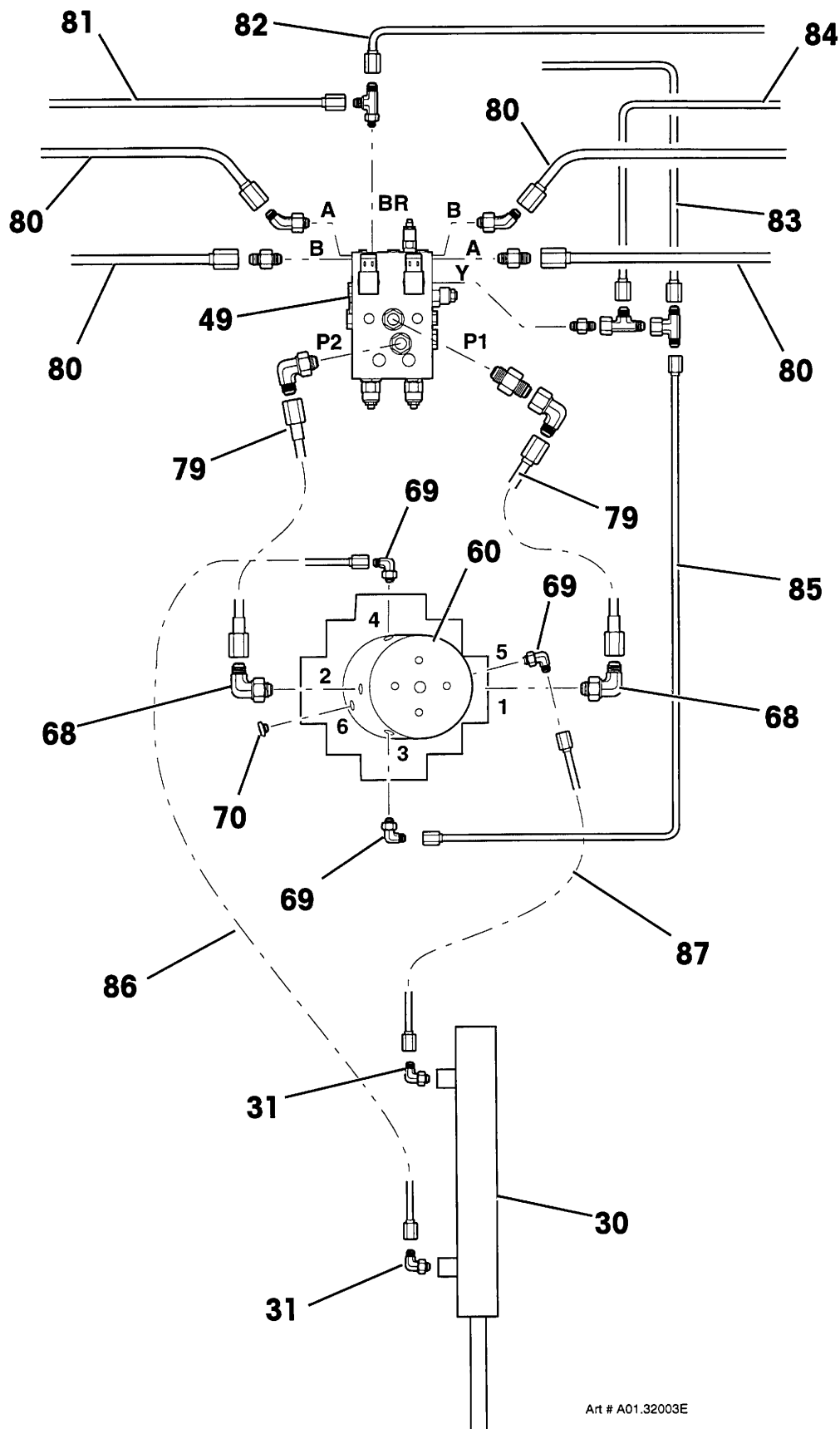
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PART NO.

354 9760

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SECTION

B01.

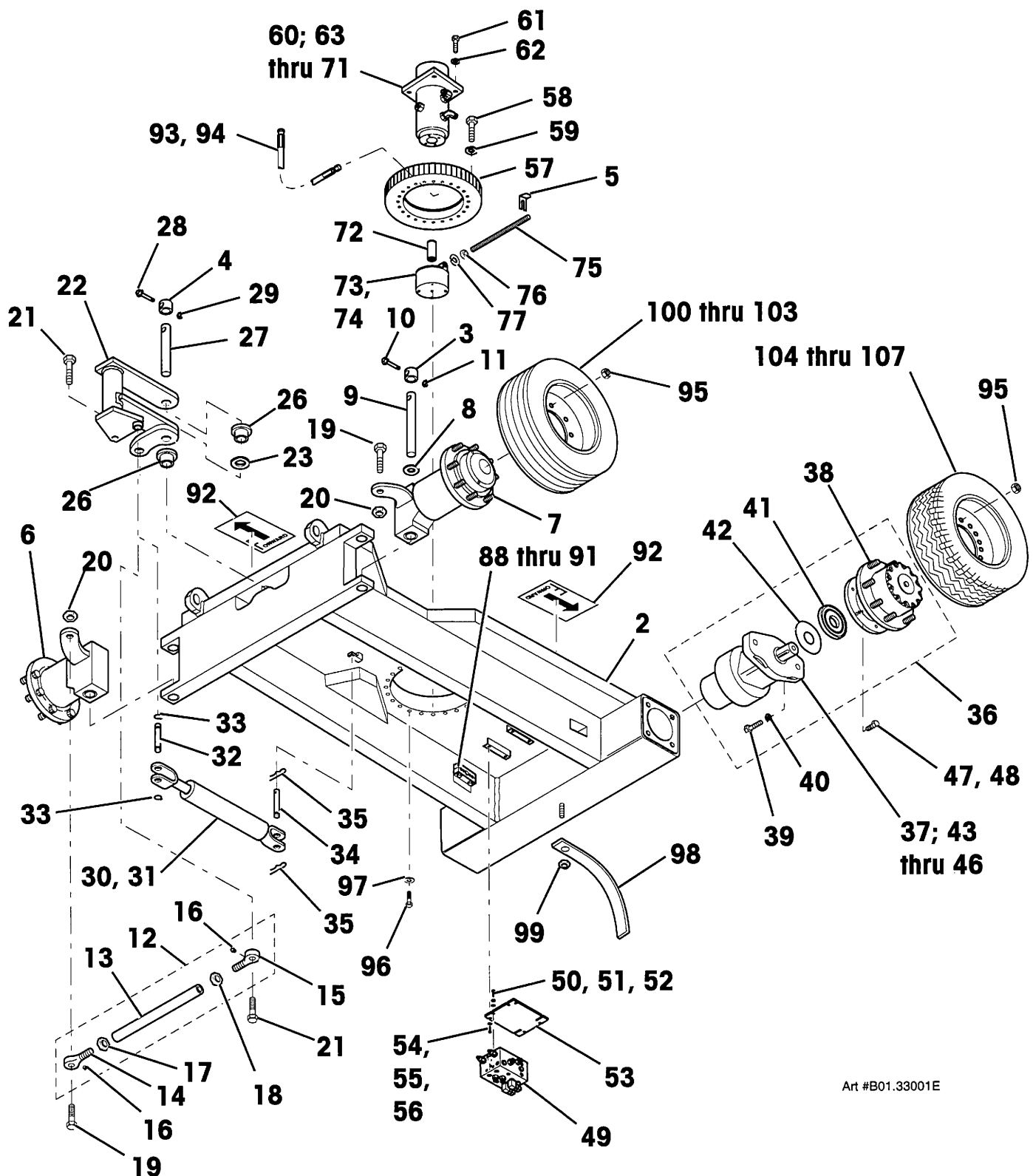
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
			Note: Tires should be replaced in axle pairs. When replacing tires, or tire and wheel assemblies, it is important that left and right sides of a single axle match in brand and type. Refer to tire descriptions below:		
100	351 5630		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2	
101	02-024800		TIRE (15-19.5 "Jumbo Jet Cargo" Tubeless)	1	
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
103	02-047100		INNER TUBE	1	
			<i>Or . . .</i>		
100	351 5720		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2	
101	02-024800		TIRE (15-19.5 "Jumbo Jet Cargo" Tubeless)	1	
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
			<i>Or . . .</i>		
100	354 0830		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2	
101	02-047800		TIRE (15-19.5 NHS "Super Agri Loader" Tubeless, 14 Ply rating)	1	
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
103	02-047100		INNER TUBE	1	
			<i>Or . . .</i>		
100	354 0840		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2	
101	02-047800		TIRE (15-19.5 NHS "Super Agri Loader" Tubeless, 14 Ply rating)	1	
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
			<i>Or . . .</i>		
100	355 2760		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2	
101	02-050100		TIRE (15-19.5 "Wearmaster OTR" Tubeless, 14 Ply rating)	1	
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
103	02-047100		INNER TUBE	1	
			<i>Or . . .</i>		
100	355 2770		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2	
101	02-050100		TIRE (15-19.5 "Wearmaster OTR" Tubeless, 14 Ply rating)	1	
102	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
			For drive tires, see next page.		
TITLE UNDERCARRIAGE GROUP, MPH 60 (2WD)				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 B01.	PLATE NO. 33	PAGE 05	REV. -		
			PART NO. 354 9760		



Art #B01.33001E

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TITLE

UNDERCARRIAGE GROUP, MPH 60 (2WD)

PART
NO.

354 9760

REV.
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DATED

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SECTION

B01.

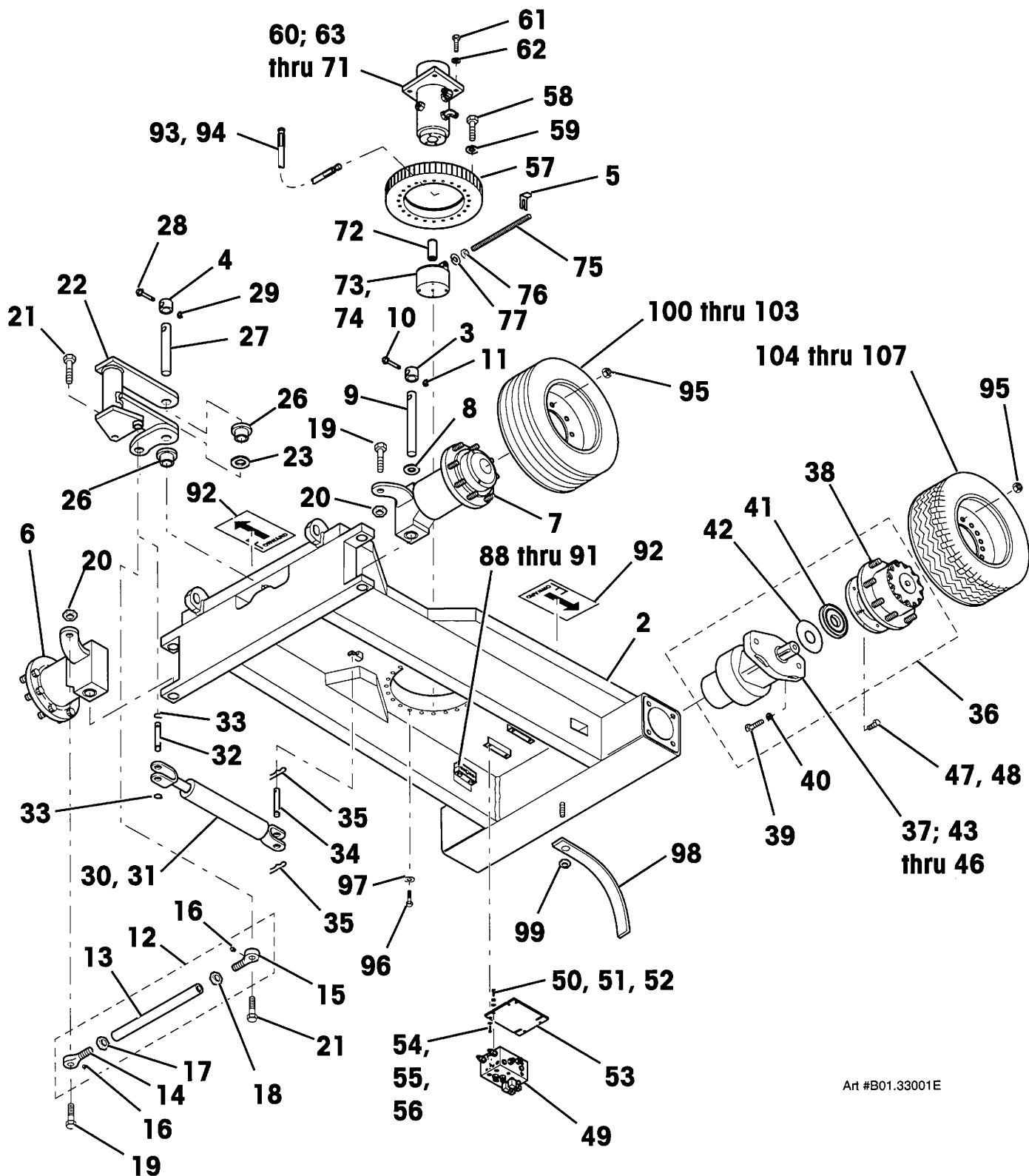
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05

PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
			For steer tires, see previous page.		
			Note: Tires should be replaced in axle pairs. When replacing tires, or tire and wheel assemblies, it is important that left and right sides of a single axle match in brand and type. Refer to tire descriptions below:		
104	351 5620		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2	
105	02-024700		TIRE (15-19.5 "Jumbo Super All Grip" Tubeless)	1	
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
107	02-047100		INNER TUBE	1	
			<i>Or . . .</i>		
104	351 5710		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2	
105	02-024700		TIRE (15-19.5 "Jumbo Super All Grip" Tubeless)	1	
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
			<i>Or . . .</i>		
104	354 0830		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2	
105	02-047800		TIRE (15-19.5 NHS "Super Agri Loader" Tubeless, 14 Ply rating)	1	
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
107	02-047100		INNER TUBE	1	
			<i>Or . . .</i>		
104	354 0840		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2	
105	02-047800		TIRE (15-19.5 NHS "Super Agri Loader" Tubeless, 14 Ply rating)	1	
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
			<i>Or . . .</i>		
104	355 2760		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2	
105	02-050100		TIRE (15-19.5 "Wearmaster OTR" Tubeless, 14 Ply rating)	1	
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
107	02-047100		INNER TUBE	1	
			<i>Or . . .</i>		
104	355 2770		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2	
105	02-050100		TIRE (15-19.5 "Wearmaster OTR" Tubeless, 14 Ply rating)	1	
106	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1	
TITLE UNDERCARRIAGE GROUP, MPH 60 (2WD)				Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	
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TITLE

UNDERCARRIAGE GROUP, MPH 60 (2WD)

PART NO.

354 9760

REV.

DATED

31 JAN., 1997

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B01.

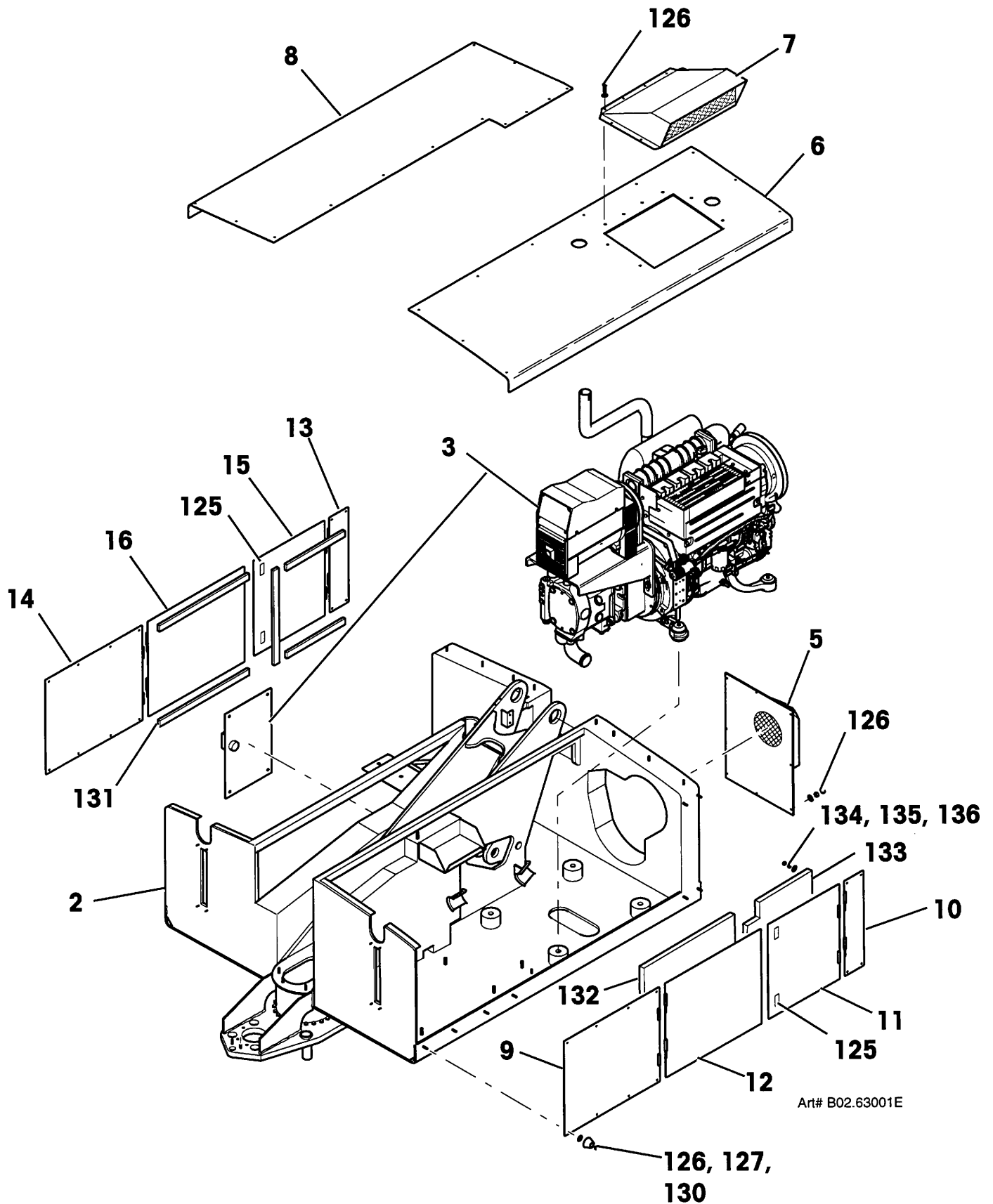
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
1	---	C04.43	ENGINE GROUP	1	
2	---		SUPERSTRUCTURE WELDMENT	1	
3	See plate ...		ENGINE ASSEMBLY	1	
4	355 2990		SHEET METAL GROUP	1	
5	237 3560		VENT, ENGINE AIR (on front of superstructure) used with Deutz F4L 1011 engine and optional		
6	237 1830		Shotblast Package PANEL, ROOF (Right) used with Deutz F4L 1011 engine	1	
7	218 3450		VENT, ENGINE AIR ("Pagoda", on roof panel)	1	
8	212 5040		PANEL, ROOF (Left)	1	
9	230 4850		SIDE PANEL (on right [engine] side of superstructure) (Wide panel to left of doors)	1	
10	230 4820		SIDE PANEL (on right [engine] side of superstructure) (Narrow panel to right of doors)	1	
11	237 3540		DOOR ASSEMBLY (on right [engine] side of superstructure) (Right hinged, with latch cutouts) With studs for optional sound package insulation	1	
12	237 3550		DOOR ASSEMBLY (on right [engine] side of superstructure) (Left hinged, with no latch cutouts) With studs for optional sound package insulation	1	
13	230 4830		SIDE PANEL (on left side of superstructure) Narrow panel to left of doors	1	
14	230 4860		SIDE PANEL (on left side of superstructure) Wide panel to right of doors	1	
15	230 4660		DOOR ASSEMBLY (on left [control] side of superstructure) Right hinged, no latches	1	
16	236 6310		DOOR ASSEMBLY (on left [control] side of superstructure) Left hinged, with latches	1	
TITLE			SUPERSTRUCTURE ASSEMBLY, MPH 60 (SPECIAL)		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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SUPERSTRUCTURE ASSEMBLY, MPH 60 (SPECIAL)

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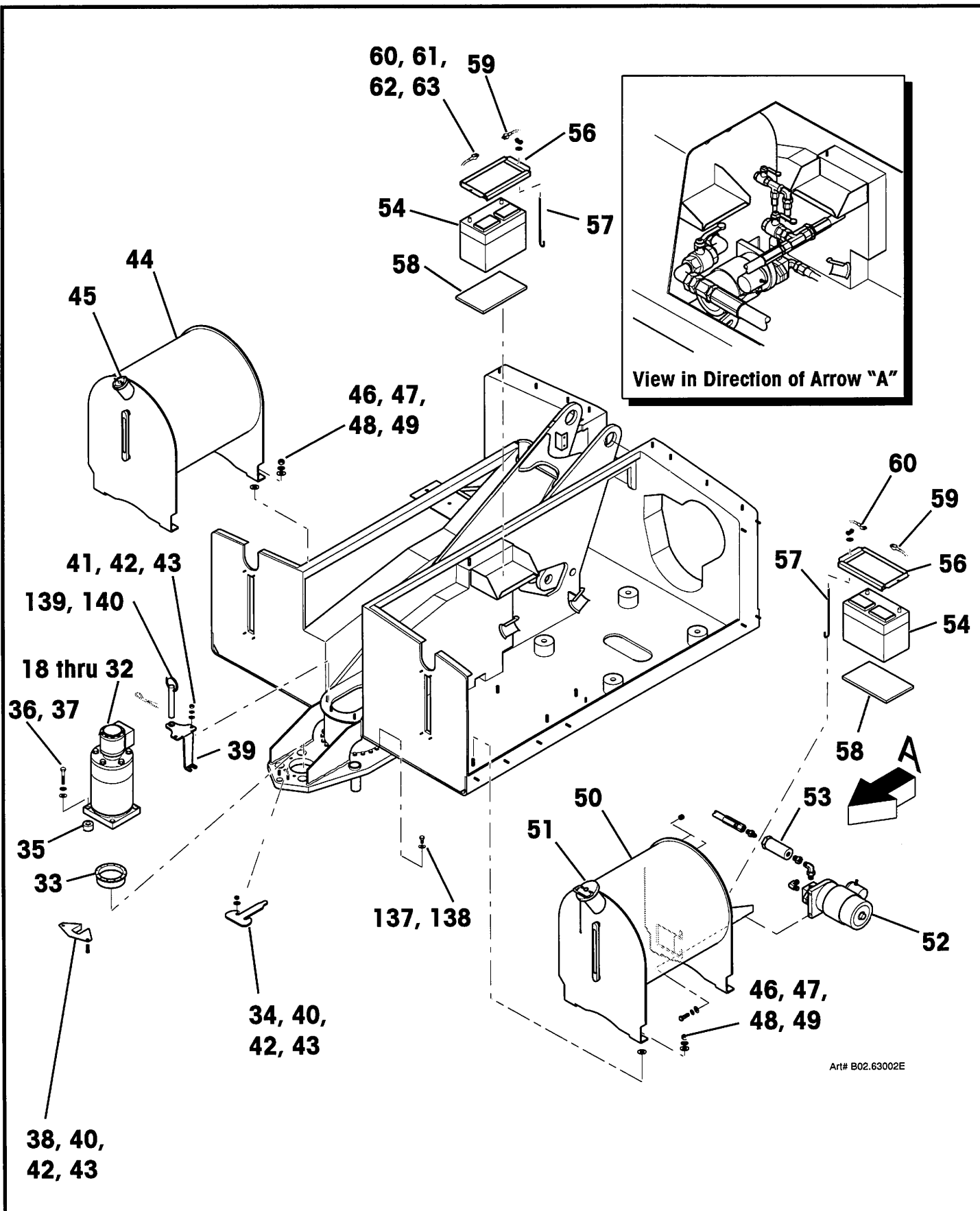
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
17	355 0280	D06.12	SUPERSTRUCTURE GROUP	1	
18	352 9670		SPEED REDUCER (Swing drive) ASSEMBLY	1	
19	01-215500		MOTOR, HYDRAULIC SWING	1	
20	02-006100	F02.04	REDUCER, SWING (Planetary gear type)	1	
21	01-013800		VALVE, SHUTTLE	1	
22	350 8820		HYDRAULIC TUBE ASSEMBLY		
			(Approx. 8" [200 mm] long. Shuttle valve to brake.)	1	
23	350 8835		HYDRAULIC TUBE ASSEMBLY ("U" shape)	2	
24	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	2	
25	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	1	
26	06-044500		90° ELBOW, STRAIGHT THREAD (6-4 C50X-S)	1	
27	06-044600		90° ELBOW, STRAIGHT THREAD (6 C50X-S)	1	
28	06-048500		RUN TEE, MALE "O"-RING (6 R50X-S)	2	
29	06-090800		REDUCER/ EXPANDER (10-6 F50 G5-S)	2	
30	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	2	
31	07-060018		WASHER, FLAT (1/2", SAE)	2	
32	07-065018		WASHER, HELICAL LOCK	2	
33	205 9387		RING, ECCENTRIC	1	
34	214 1070		PLATE, ECCENTRIC LOCK	1	
35	208 3030		SPACER, SPEED REDUCER SUPPORT	4	
36	07-004131		CAP SCREW, HEX HEAD (5/8"-11 x 2-1/2", Grade 8)	4	
37	07-061021		WASHER, FLAT (5/8" SAE, hardened)	4	
38	214 3480		GUARD, SWING PINION GEAR	1	
39	206 7731		LOCK, SWIVEL	1	
40	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	4	
41	07-065018		WASHER, HELICAL LOCK (1/2")	6	
42	07-062018		WASHER, FLAT (1/2")	6	
43	07-040018		NUT, HEX (1/2"-13, Grade 5)	2	
TITLE			SUPERSTRUCTURE ASSEMBLY, MPH 60 (SPECIAL)		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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SUPERSTRUCTURE ASSEMBLY, MPH 60 (SPECIAL)

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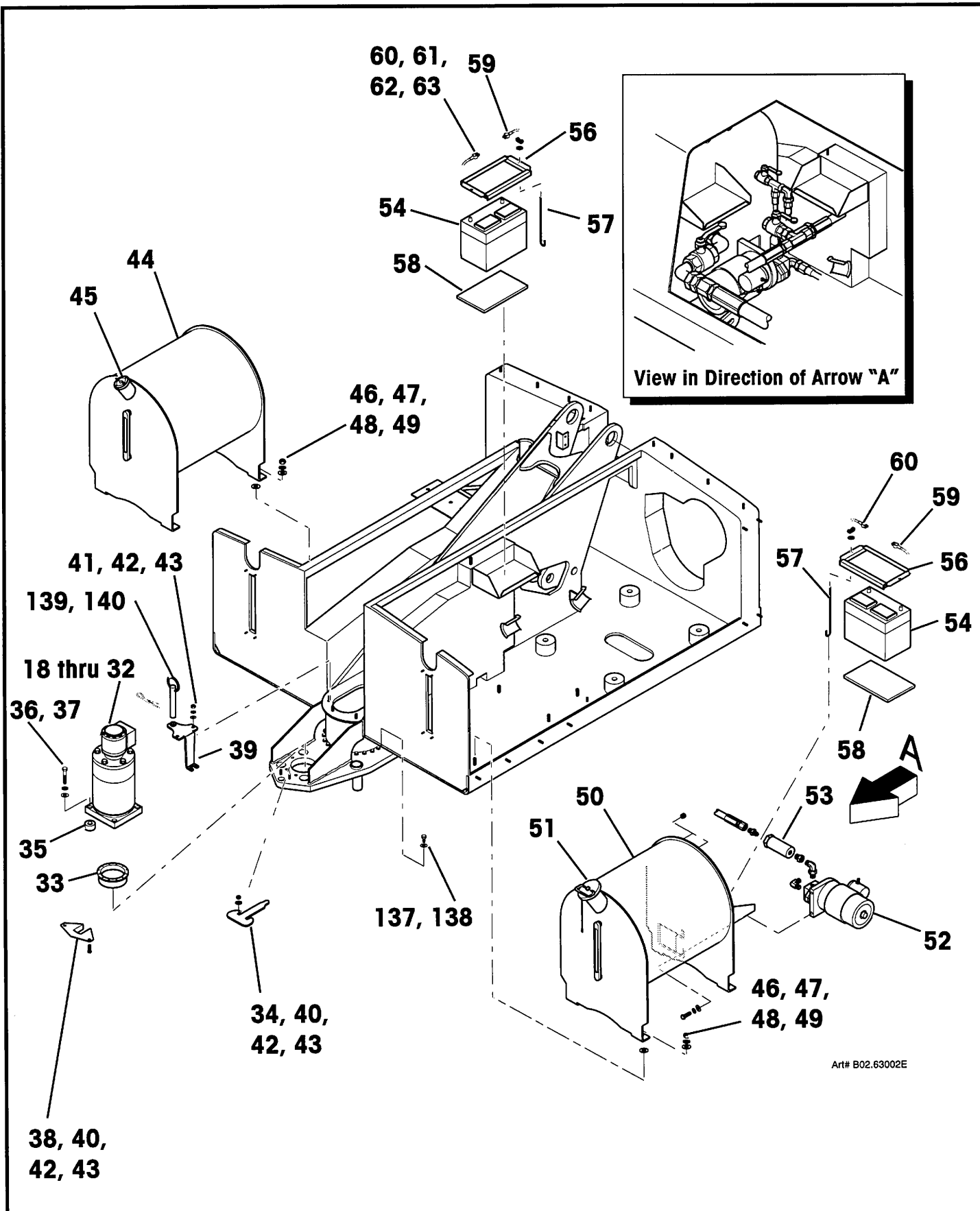
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
44	See plate ...	C11.01	SUPERSTRUCTURE GROUP (continued)	1	
45	10-001900		TANK ASSEMBLY, FUEL	1	
			CAP, FUEL TANK FILLER (Vented, Anti-surge)	1	
46	07-040018		NUT, HEX (1/2"-13, Grade 5)	8	
47	07-065018		WASHER, HELICAL LOCK (1/2")	8	
48	07-062018		WASHER, FLAT (1/2")	8	
49	07-061021	C10.01	WASHER, FLAT (5/8", SAE, hardened)	8	
50	See plate . .		TANK ASSEMBLY, HYDRAULIC	1	
51	10-002100		CAP, HYDRAULIC TANK FILLER	1	
52	See plate . .	D07.04	PUMP, EMERGENCY HYDRAULIC	1	
53	01-226000		FILTER, HIGH PRESSURE (10 micron, #6 SAE ports)	1	
54	03-010001		BATTERY (12 Volt DC, 95 Amp)	2	
55	03-487500		TERMINAL, BATTERY	1	
56	03-064300		HOLD DOWN, BATTERY	2	
57	07-090111		J-BOLT (10" [254 mm] long)	4	
58	10-112900		PROTECTOR, BATTERY (Neoprene, 7" x 11" x 1/8")	2	
59	03-074100		CABLE, BATTERY (Red, 50" [1.2 m] long)	1	
	03-451900		CABLE, BATTERY (Red, 86" [2.2 m] long)	1	
60	03-070100		CABLE, BATTERY (Black, 12" [30 cm] long)	1	
	03-451800		CABLE, BATTERY (Black, 30" [.76 m] long)	1	
61	07-040016		NUT, HEX (3/8"-16, Grade 5)	1	
62	07-065016		WASHER, HELICAL LOCK (3/8")	1	
63	07-062016		WASHER, FLAT (3/8")	1	
TITLE			SUPERSTRUCTURE ASSEMBLY, MPH 60 (SPECIAL)		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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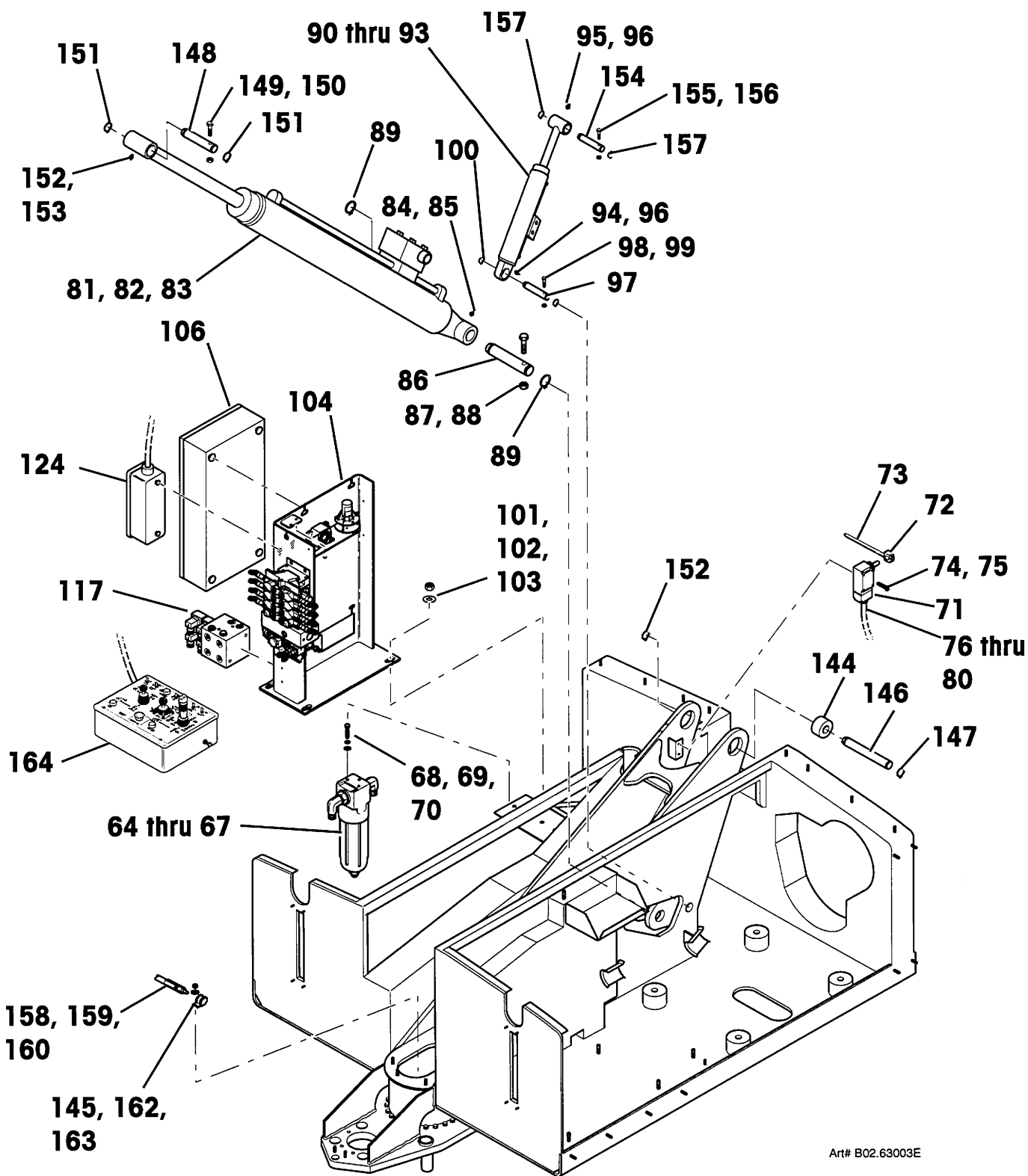
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
64	01-237500		SUPERSTRUCTURE GROUP (continued) FILTER, HYDRAULIC (High pressure, in line, 6000 psi [414 bar], non-bypass)	1	
65	01-237501		ELEMENT, FILTER	1	
66	06-045800		90° ELBOW, "O"-RING TO 37° (16 C50X-S)	1	
67	06-047700		45° ELBOW, "O"-RING TO 37° (16 V50X-S)	1	
68	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	3	
69	07-065016		WASHER, HELICAL LOCK (3/8")	3	
70	07-062016		WASHER, FLAT (3/8")	3	
71	03-493700		SWITCH, LIMIT (Side rotary, one normally open, one normally closed contact)	1	
72	03-494100		ARM, LIMIT SWITCH (includes 6" nylon loop, which must be removed and replaced with rod, below.)	1	
73	201 0906		ARM, LIMIT SWITCH (Stainless steel rod)	1	
74	07-124400		CAP SCREW, SOCKET HEAD (#10-24 x 2-1/4", Grade 8)	2	
75	07-050011		NUT, LOCK (#10-24, Grade 2)	2	
76	03-045500		GRIP, CORD (1/2", with .31" to .38" seal)	1	
77	03-085200		CABLE, ELECTRICAL (SJO, 2 conductor, #16 AWG) (Bulk item, 14 ft [4.3 m] required this application)	A.R.	
78	03-473800		PLUG, TERMINAL (4 conductor)	1	
79	03-474000		SOCKET, TERMINAL (#14 - #16 ga. wire)	4	
80	03-474100		SEAL, WIRE (0.079" - 0.110" dia.)	4	
TITLE				SUPERSTRUCTURE ASSEMBLY, MPH 60 (SPECIAL)	
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SUPERSTRUCTURE ASSEMBLY, MPH 60 (SPECIAL)

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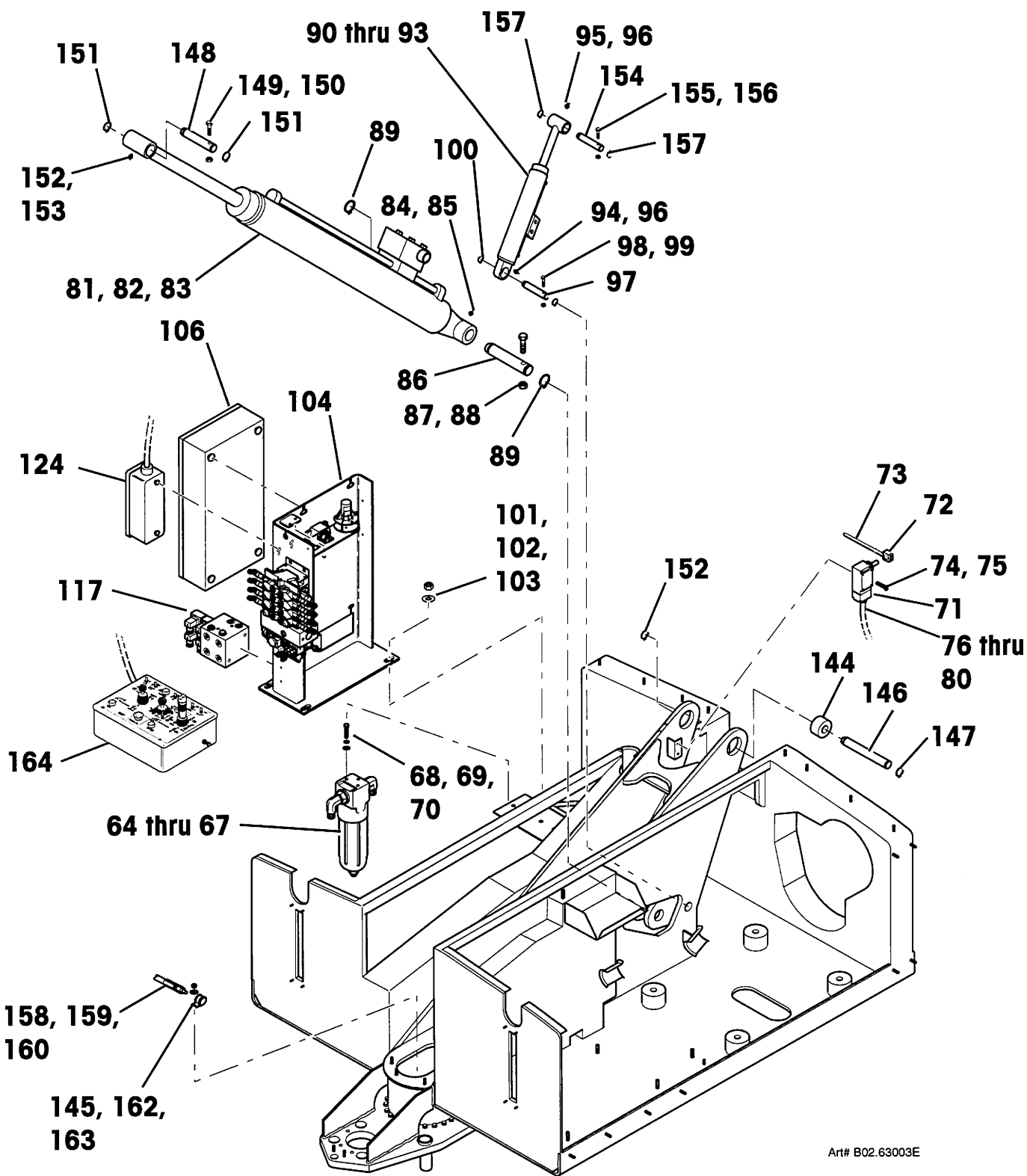
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
81	04-035700	D09.38	SUPERSTRUCTURE GROUP (continued) CYLINDER, BOOM LIFT earlier version	1	
82	04-060200 01-222000	D09.44	later version VALVE, COUNTERBALANCE (Holding valve) (10:1 ratio. Factory set at 4900 psi [338 bar] [344.5 kg/ cm ²])	1	
83	06-090900		REDUCER/ EXPANDER (10-8 F50G5-S)	2	
	06-044800		90° ELBOW, "O"-RING TO 37° (8 C50X-S)	2	
84	08-050500		FITTING, GREASE (1/8", 45°) (Base end)	1	
85	08-066300		CAP, GREASE FITTING (White plastic)	1	
86	206 9166		PIN, LIFT CYLINDER (1.75" x 14.94") (base end) (replaces 219 4570)	1	
87	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	1	
88	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1	
89	08-041000		RING, RETAINING (1-3/4")	2	
90	04-035500 04-056700	D10.14 D10.16	CYLINDER, MASTER LEVEL earlier version later version	1	
91	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S)	2	
92	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	1	
93	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	1	
94	08-050500		FITTING, GREASE (1/8", 45°) (Base end)	1	
95	08-050000		FITTING, GREASE (1/8", straight) (Rod end)	1	
96	08-066300		CAP, GREASE FITTING (White plastic)	2	
97	206 8884		PIN, MASTER CYLINDER (1.25" x 4.88") (base end) (replaces 219 4490)	1	
98	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1	
99	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1	
100	08-040700		RING, RETAINING (1-1/4")	2	
101	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	4	
102	07-062016		WASHER, FLAT (3/8")	4	
103	07-062018		WASHER, FLAT (1/2")	4	
TITLE			SUPERSTRUCTURE ASSEMBLY, MPH 60 (SPECIAL)		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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SUPERSTRUCTURE ASSEMBLY, MPH 60 (SPECIAL)

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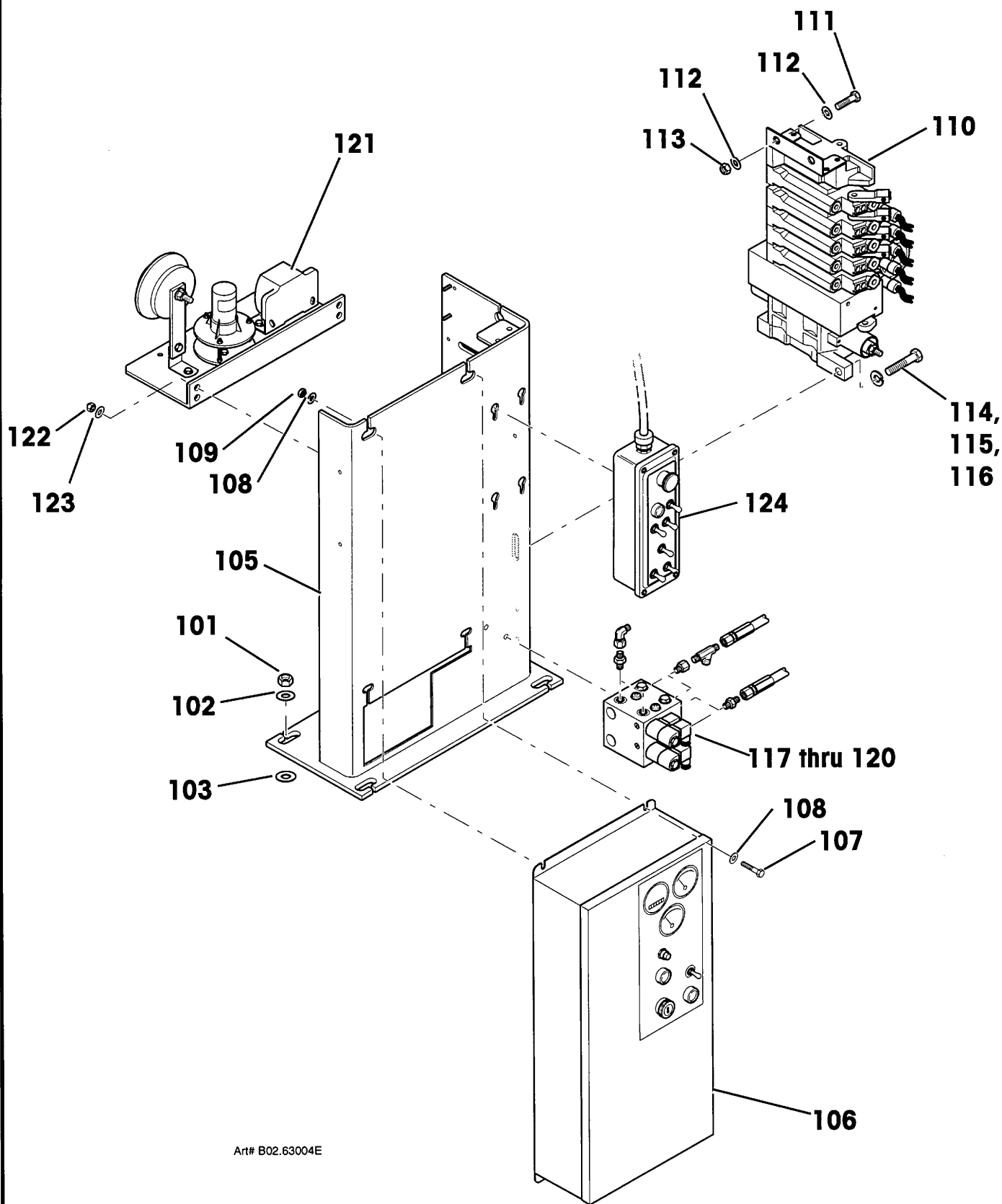
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
104	---		SUPERSTRUCTURE GROUP (continued)	1	
105	235 3140		GROUND CONTROL ASSEMBLY STAND, GROUND CONTROL	1	
106	See plate ...	C03.44	PANEL ASSEMBLY, GROUND ELECTRICAL	1	
107	07-003025		CAP SCREW, HEX HEAD (5/16"-18 x 1", Grade 5)	4	
108	07-062015		WASHER, FLAT (5/16")	8	
109	07-050015		NUT, LOCK (5/16"-18, Grade 8)	4	
110	See plate ...	C02. --	MANIFOLD ASSEMBLY	1	
111	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	2	
112	07-062016		WASHER, FLAT (3/8")	6	
113	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	2	
114	07-003089		CAP SCREW, HEX HEAD (1/2"-13 x 2", Grade 5)	1	
115	07-062018		WASHER, FLAT (1/2")	1	
116	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1	
117	355 1320	C12.07	VALVE ASSEMBLY, PLATFORM TILT/ ROTATE	1	
118	07-003061		CAP SCREW, HEX HEAD (3/8"-16 x 4-3/4", Grade 5)	2	
119	07-062016		WASHER, FLAT (3/8")	4	
120	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	2	
121	355 1290	E08.03	ALARM PACKAGE ASSEMBLY	1	
122	07-062014		WASHER, FLAT (1/4")	8	
123	07-050014		NUT, LOCK (1/4"-20, Grade 8)	4	
124	See plate ...	C06.202	PENDANT, REMOTE CONTROL	1	
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SUPERSTRUCTURE ASSEMBLY, MPH 60 (SPECIAL)

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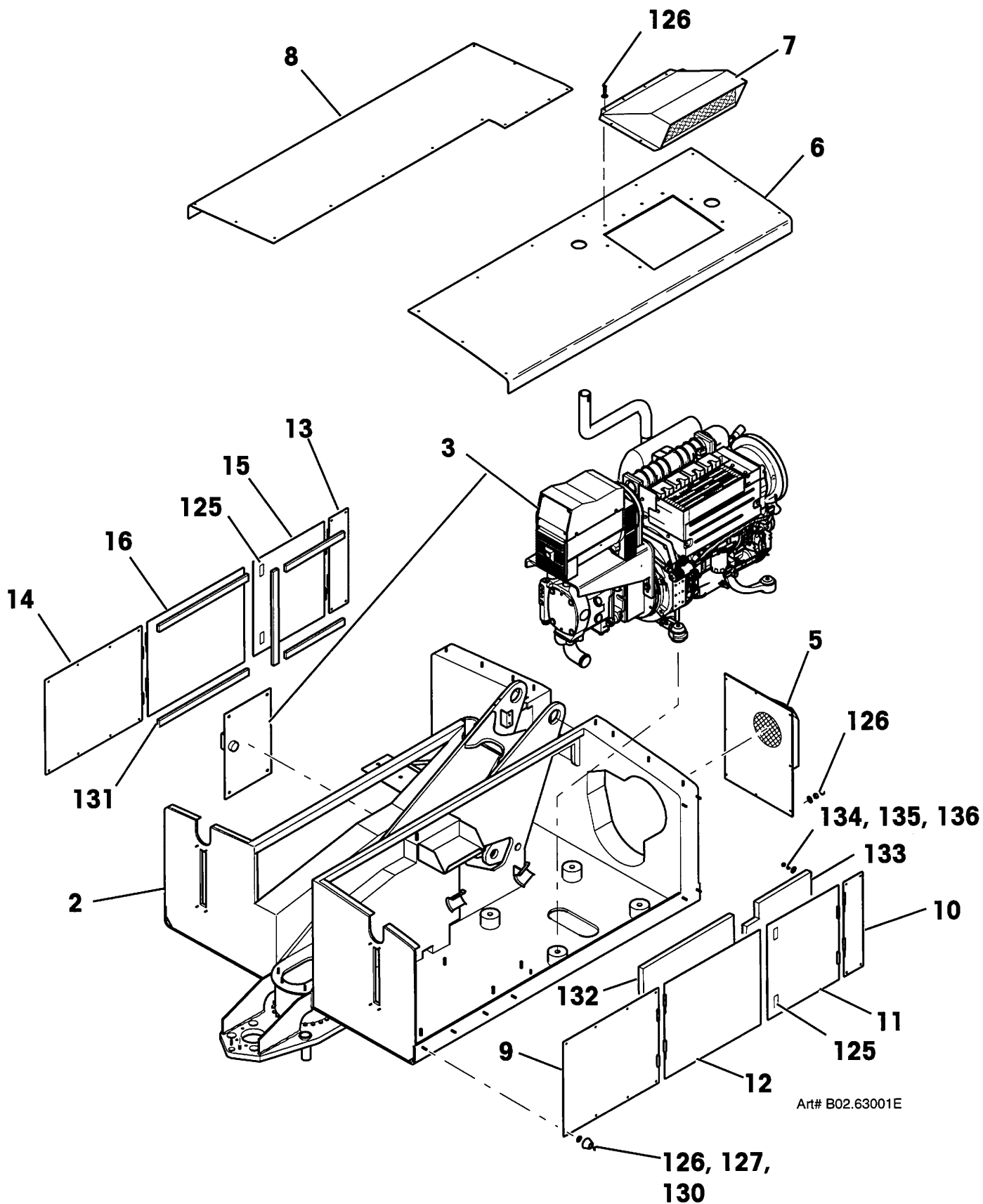
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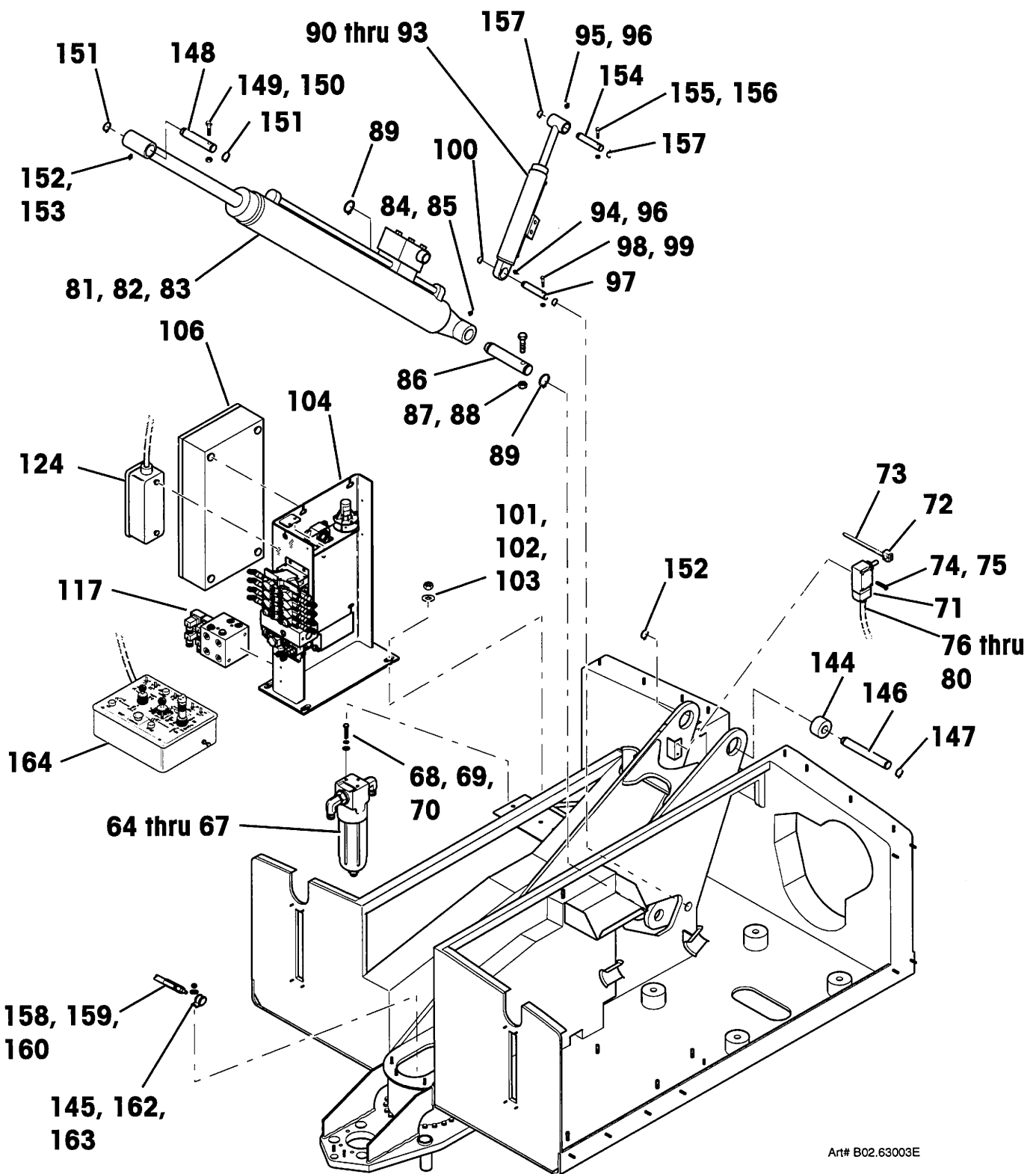
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
141	355 2250		SUPERSTRUCTURE GROUP (continued)	1	
142	10-113000		HOSE KIT, SUPERSTRUCTURE (MPH 60 with Simcon controls)	2	
143	03-064700		PROTECTOR, HOSE (Rubber, 8" x 12" x 1/8")	10	
	03-066400		TIE, CABLE (14.5" [368 mm] long)	14	
144	08-013300		TIE, CABLE (20" [508 mm] long)	2	
145	03-040200		BUSHING, SELF ALIGNING (Boom pivot)	1	
			CLAMP, EMT (for grease hose)		
			The following items are not included in the Superstructure Group:		
146	206 9146		PIN, BOOM PIVOT (2-1/4" x 17") (replaces 219 4590)	1	
147	08-043200		RING, RETAINING (2-1/4")	2	
148	206 9155		PIN, LIFT CYLINDER (1.75" x 10.44") (rod end)	1	
149	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1	
150	07-058400		NUT, LUG (1/2"-13, Grade 8)	1	
151	08-041000		RING, RETAINING (1-3/4")	2	
152	08-050500		FITTING, GREASE (1/8", 45°)	1	
153	08-066300		CAP, GREASE FITTING (White plastic)	1	
154	206 8864		PIN, MASTER CYLINDER (1.25" x 6.13") (rod end)	1	
			(replaces 219 4510)	1	
155	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1	
156	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1	
157	08-040700		RING, RETAINING (1-1/4")	2	
158	05-010017		HOSE ASSEMBLY, GREASE	1	
159	08-054000		FITTING, GREASE (1/4", straight)	1	
160	08-066300		CAP, GREASE FITTING (White plastic)	1	
161	10-061600		CLAMP, LOOP (G16, for Fuel line)	3	
162	07-062014		WASHER, FLAT (1/4")	4	
163	07-050014		NUT, LOCK (1/4"-20)	4	
164	354 9160	C08.27	PLATFORM CONTROL BOX ASSEMBLY	1	
			(special, for remote actuation of boom tip rotary actuator functions)		
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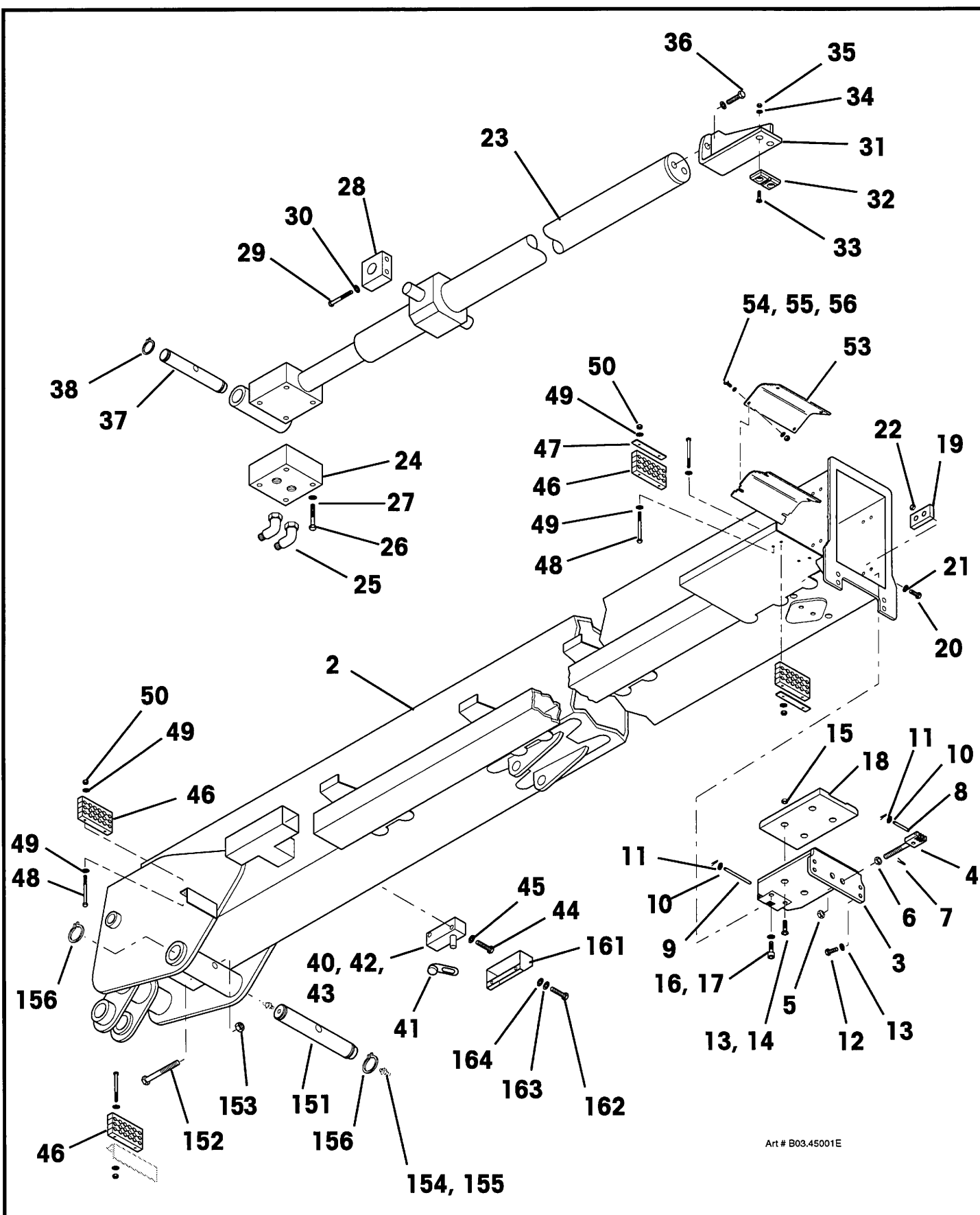
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
1	353 3120 353 7130		BOOM ASSEMBLY With "Full Hydraulic" controls With "Electro-Proportional" controls	1	
2	355 0810		For S/N AXA 00974, 975, 976 (Special version without platform, and with "Simcon" controls) BOOM WELDMENT, BASE	1	
	211 8350 232 5730		Standard version For S/N AXA 00974, 975, 976 (Special version w/o platform)		
3	209 7499		BRACKET, CHAIN AND WEAR PAD MOUNTING (rear)	1	
4	203 8085		ANCHOR, CHAIN	2	
5	07-047123		NUT, HEX JAM (7/8"-14, Grade 5)	4	
6	07-040123		NUT, HEX (7/8"-14, Grade 5)	2	
7	07-070506		PIN, COTTER (1/8" x 1-1/4")	6	
8	203 7684		PIN, LEAF CHAIN ANCHOR (2" long, for 5/8" pitch chain)	2	
9	203 7624		PIN, LEAF CHAIN ANCHOR (4" long, for 5/8" pitch chain)	1	
10	07-060014		WASHER, FLAT (1/4" SAE)	4	
11	07-070305		PIN, COTTER (1/16" x 1")	6	
12	07-003127		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 5)	4	
13	07-065021		WASHER, HELICAL LOCK (5/8")	8	
14	07-003126		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/4", Grade 5)	4	
15	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	4	
16	204 1317		CAP SCREW, SOCKET HEAD (3/4"-10 x 1-1/2", drilled)	4	
17	07-065022		WASHER, HELICAL LOCK (3/4")	4	
18	208 3717		PAD, WEAR (Base boom, rear, bottom) (7.0" x 10.0")	1	
19	207 0357		PAD, SIDE WEAR (4.5" x 2.5" [11.4 x 6.35 cm])	4	
20	07-003084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 5)	8	
21	07-065018		WASHER, HELICAL LOCK (1/2")	8	
22	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	8	
23	04-036100	D19.39	CYLINDER, TELESCOPE Earlier version	1	
	04-057400	D19.48	Later version		
24	01-003600		VALVE, HOLDING	1	
25	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S)	2	
26	07-003011		CAP SCREW, HEX HEAD (1/4"-20 x 2-1/2", Grade 5)	4	
27	07-065014		WASHER, HELICAL LOCK (1/4")	4	
28	206 7726		BLOCK, TELESCOPE CYLINDER	2	
29	07-004138		CAP SCREW, HEX HEAD (5/8"-11 x 4-1/2", Grade 8)	4	
30	07-065021		WASHER, HELICAL LOCK (5/8")	4	
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				Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	



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BOOM ASSEMBLY, MPH 60

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ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
31	205 8713		BOOM ASSEMBLY (continued)	1	
32	201 2933		SHOE, TELESCOPE CYLINDER		
			PAD, TELESCOPE CYLINDER WEAR		
			(5.2" x 3.0" [13.3 x 7.6 cm])	1	
33	07-015129		MACHINE SCREW, FLAT HEAD (5/8"-11 x 2", Grade 5)	2	
34	07-065021		WASHER, HELICAL LOCK (5/8")	2	
35	07-040021		NUT, HEX (5/8"-11, Grade 5)	2	
36	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	2	
37	206 7744		PIN, TELESCOPE CYLINDER (1.50" x 12.94")	1	
38	08-040900		RING, RETAINING (1.5")	2	
39	351 8520		SWITCH ASSEMBLY, LIMIT (double pole)	1	
40	03-493800		SWITCH, LIMIT (2 N.O., 2 N.C contacts)	1	
41	03-494000		ARM, LIMIT SWITCH (2" fixed roller)	1	
42	03-085700		CABLE, ELECTRICAL (4 conductor, #16 AWG)		
			(Bulk item. 15 ft [4.57 m] needed here)	A.R.	
43	03-041000		GRIP, CORD (Plastic, 1/2", with .38" to .44" seal)	1	
44	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8	2	
45	07-065011		WASHER, HELICAL LOCK (#10)	2	
46			CLAMP, HOSE	5	
	218 5280		13 holes, 4.6" x 2.9" (with "Electro-Proportional" controls)		
	218 5280		13 holes, 4.6" x 2.9" (with "Simcon" controls)		
	213 0670		18 holes, 6.0" x 3.4" (with "Full Hydraulic" controls)		
47	218 1180		BAR, HOSE CLAMP COMPRESSION (holes not countersunk)	2	
48			CAP SCREW, HEX HEAD	8	
	07-003055		3/8"-16 x 3-1/2", Grade 5 (for 2.9" high clamps)		
	07-003057		3/8"-16 x 4", Grade 5 (for 3.4" high clamps)		
49	07-062016		WASHER, FLAT (3/8")	16	
50	07-050016		NUT, LOCK (3/8"-16, Grade 5)	8	
51	07-062015		WASHER, FLAT (5/16")	2	
52	07-050015		NUT, LOCK (5/16"-18, Grade 5)	2	
53	230 1010		PAD, WEAR (Moving anchor) (8.5" x 11" x .12")	1	
54	07-017046		CAP SCREW, BUTTON HEAD (3/8"-16 x 1-1/4", Grade 5)	4	
55	07-062016		WASHER, FLAT (3/8")	8	
56	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	4	
TITLE			BOOM ASSEMBLY, MPH 60		
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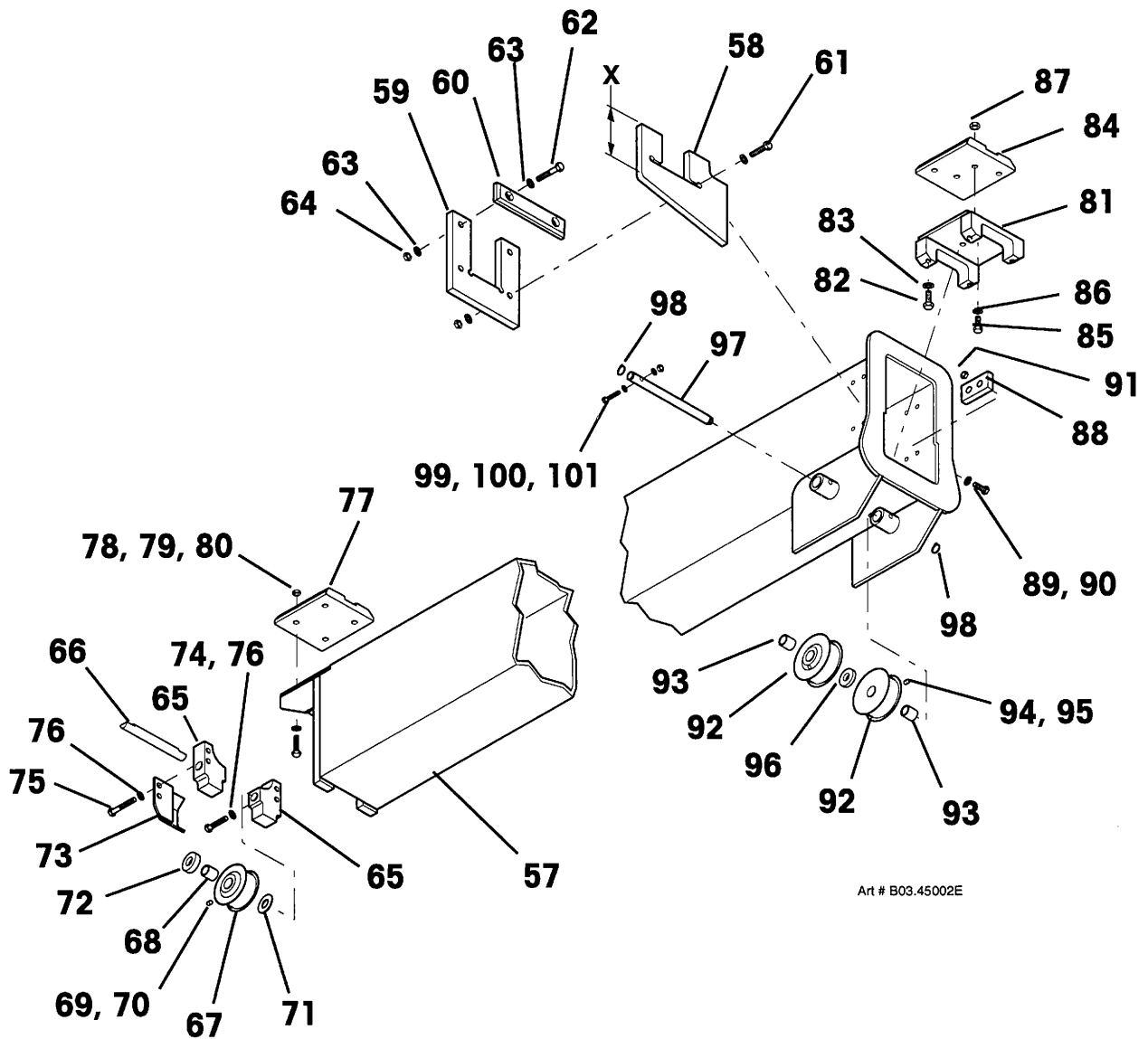
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
57	211 8340		BOOM ASSEMBLY (continued)	
58			BOOM WELDMENT, MID (does not include Bracket, Item 58)	1
			BRACKET, MOVING ANCHOR GUIDE	1
	231 2860 232 5980		Standard version (Ref. dimension "X" = 4.8" [12 cm]) For S/N AXA 00974, 975, 976 (Special version w/o platform) (Ref. dimension "X" = 8.4" [21 cm])	
59	210 2190		GUIDE, MOVING ANCHOR (bottom/ side)	1
60	215 8770		GUIDE, MOVING ANCHOR (top)	1
61	07-003089		CAP SCREW, HEX HEAD (1/2"-13 x 2", Grade 5)	2
62	07-003091		CAP SCREW, HEX HEAD (1/2"-13 x 2-1/2", Grade 5)	2
63	07-062018		WASHER, FLAT (1/2")	8
64	07-058400		NUT, HEX (1/2"-13, Grade 5)	4
65	218 5540		BLOCK, CHAIN SHEAVE MOUNTING (replaces 203 7729)	2
66	203 7639		PIN, CHAIN SHEAVE (1.0" x 9.0") (replaces 231 9610)	1
67	203 8025		SHEAVE (3.25" O.D., for 5/8 pitch leaf chain)	1
68	08-009000		BEARING, SLEEVE	1
69	08-053100		FITTING, GREASE (1/4"-28, straight)	1
70	08-066300		CAP, GREASE FITTING (White plastic)	1
71	07-060024		WASHER, FLAT (1" SAE)	1
72	203 7868		SPACER, SHEAVE	1
73	211 9510		RETAINER, CHAIN	1
74	07-004133		CAP SCREW, HEX HEAD (5/8"-11 x 3", Grade 8)	2
75	07-004134		CAP SCREW, HEX HEAD (5/8"-11 x 3-1/4", Grade 8)	2
76	07-065021		WASHER, HELICAL LOCK (5/8")	4
77	204 3296		PAD, WEAR (Mid boom, top front) (7" x 9.2" [18 x 23.5 cm])	1
78	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 4-1/2", Grade 5)	2
79	07-065021		WASHER, HELICAL LOCK (5/8")	2
80	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	2

TITLE

BOOM ASSEMBLY, MPH 60

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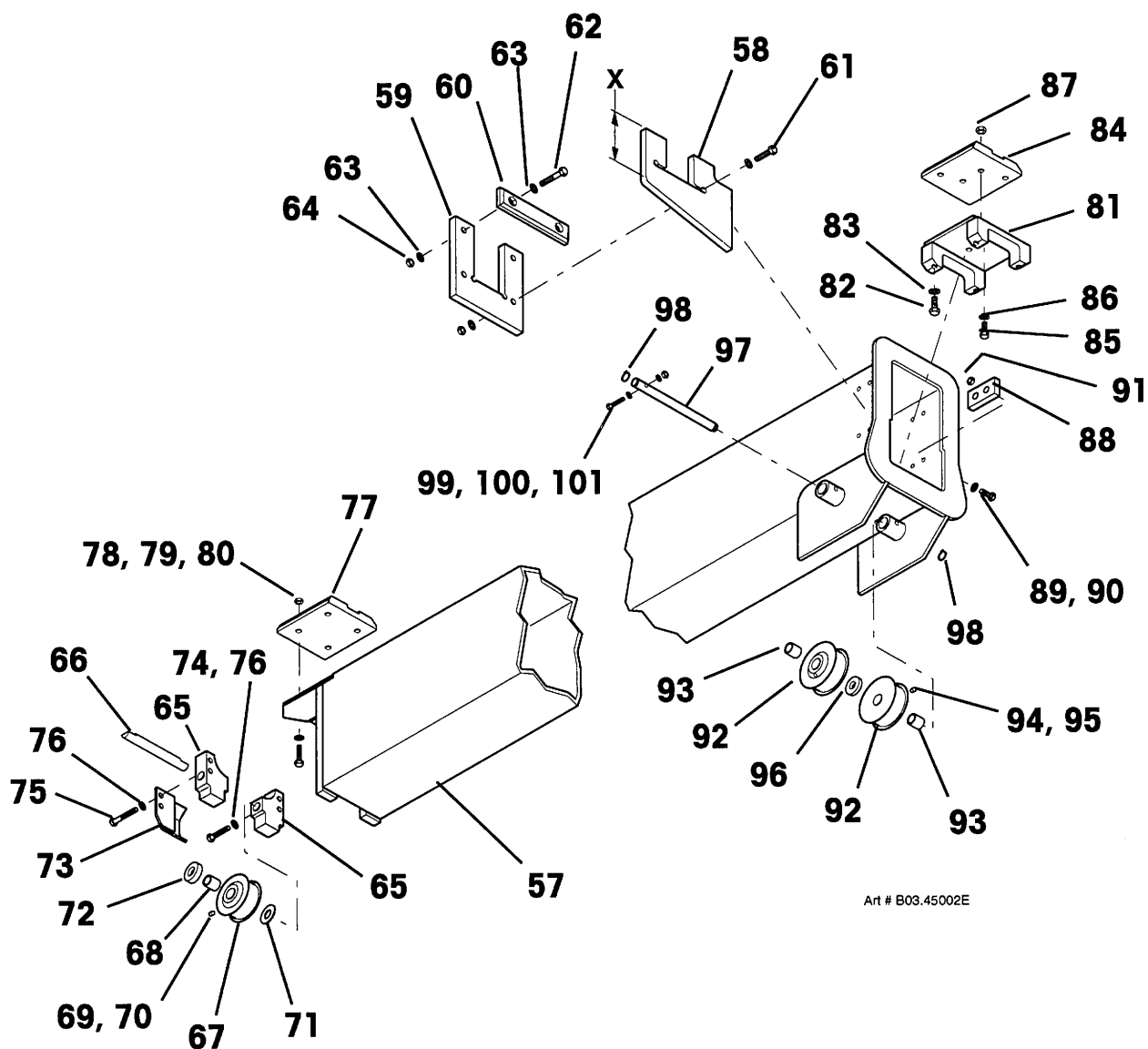
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ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
81	210 6610		BOOM ASSEMBLY (continued)	1	
82	07-003086		BRACKET, WEAR PAD	4	
83	07-065018		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	4	
84	211 8320		WASHER, HELICAL LOCK (1/2")	4	
			PAD, WEAR (Mid boom, bottom rear)	1	
			(8.0" x 6.2" [20 x 16 cm])		
85	07-008084		CAP SCREW, SOCKET HEAD (1/2"-13 x 7/8", Grade 5)	2	
86	07-065018		WASHER, HELICAL LOCK (1/2")	2	
87	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	2	
88	207 0357		PAD, SIDE WEAR (4.5" x 2.5" [11.4 x 6.35 cm])	4	
89	07-003084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 5)	8	
90	07-065018		WASHER, HELICAL LOCK (1/2")	8	
91	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	8	
92	203 8030		SHEAVE (4.0" O.D., for 5/8 pitch leaf chain)	2	
93	08-009000		BEARING, SLEEVE	2	
94	08-053100		FITTING, GREASE (1/4"-28, straight)	2	
95	08-066300		CAP, GREASE FITTING (White plastic)	2	
96	203 7839		SPACER, SHEAVE	1	
97	206 9803		PIN, CHAIN SHEAVE (1.0" x 12.19")	1	
98	08-040600		RING, RETAINING (1.0")	2	
99	07-003052		CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5)	1	
100	07-062016		WASHER, FLAT (3/8")	2	
101	07-050015		NUT, LOCK (3/8"-16, Grade 5)	1	
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BOOM ASSEMBLY, MPH 60

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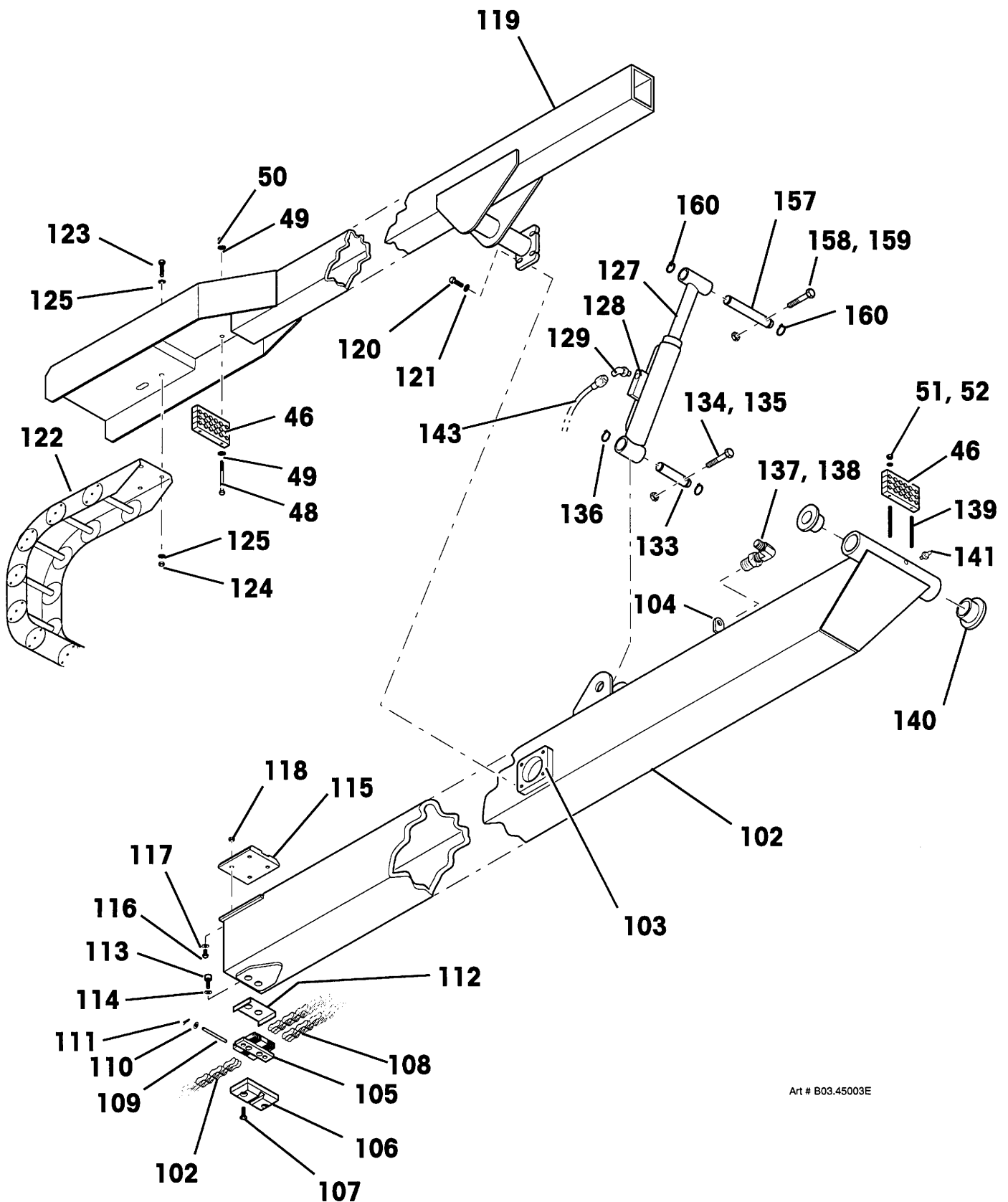
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
			BOOM ASSEMBLY (continued)		
102	211 7230		BOOM WELDMENT, TIP (does not include #103 or #104, below)	1	
103	204 4626		PLATE, MOVING ANCHOR MOUNTING	1	
104	07-062017		WASHER, FLAT (7/16")	2	
105	204 1986		ANCHOR, CHAIN	1	
106	201 2933		PAD, WEAR (Chain anchor)	1	
107	07-015125		MACHINE SCREW, FLAT HEAD (5/8"-11 x 1", Grade 5)	2	
108	08-011000		CHAIN, LEAF (5/8" pitch, 557 P)	3	
109	203 7624		PIN, LEAF CHAIN ANCHOR (4" long, for 5/8" pitch chain)	2	
110	07-060014		WASHER, FLAT (1/4" SAE)	4	
111	07-070305		PIN, COTTER (.06" x 1.0")	4	
112	205 9031		PLATE, ANCHOR CHAIN BLOCK LOCKING	1	
113	204 1317		CAP SCREW (socket head, modified 3/4"-10 x 1-1/2", Grade 8)	2	
114	07-065022		WASHER, HELICAL LOCK (3/4")	2	
115	204 3289		PAD, WEAR (Tip boom top front) (7.0" x 7.38")	1	
116	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	2	
117	07-065021		WASHER, HELICAL LOCK (5/8")	2	
118	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	2	
119	232 5940		ANCHOR WELDMENT, MOVING	1	
120	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	4	
121	07-065021		WASHER, HELICAL LOCK (5/8")	4	
122	08-076600		CARRIER, HOSE (Hose track)	1	
123	07-017045		CAP SCREW, BUTTON HEAD (3/8"-16 x 1", Grade 5)	8	
124	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	8	
125	07-062016		WASHER, FLAT (3/8")	16	
126	352 9740		CYLINDER ASSEMBLY, SLAVE LEVEL	1	
127			CYLINDER, SLAVE LEVEL	1	
128	04-035400	D20.16	Earlier version		
	04-056600	D20.20	Later version		
	01-227200		VALVE, COUNTERBALANCE (CB-CB-LHN)	2	
129	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C50X-S)	2	
130	08-050500		FITTING, GREASE (1/8" NPT, 45°)	1	
131	08-051300		FITTING, GREASE (1/8" NPT, 90°)	1	
132	08-066300		CAP, GREASE FITTING (White plastic)	2	
133	206 8884		PIN, SLAVE CYLINDER (1.25" x 4.88") (base end)	1	
134	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1	
135	07-058400		NUT, LOCK (1/2"-13, Grade 5)	1	
136	08-040700		RING, RETAINING (1.25")	2	
137	06-033300		90° ELBOW, BULKHEAD UNION (4 WETX-WLN-S) (left side)	1	
138	06-031800		UNION, BULKHEAD (4 WTX-S) (right side)	1	
139	214 1160		ROD, THREADED (5/16"-18 x 5.5" long)	2	
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ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
140	08-002200		BOOM ASSEMBLY (continued)		
141	08-050000		BEARING, FLANGED (1.25" I.D., 1.50" O.D., 2" flange)	2	
142	08-066300		FITTING, GREASE (1/8" NPT, straight)	1	
143			CAP, GREASE FITTING (White plastic)	1	
			HOSE, BOOM		
			(Note: Part number shown is for hose only, pre-cut to specific length shown. Must be trimmed to proper length after routing through boom hose track and carrier tubes, prior to installation of correct end fittings as indicated on charts on opposite page):		
	05-083400		for "Electro-Proportional" or "Simcon" units, (pre-cut to 84 ft [25.6 m]):		
			#4 hose (see chart on opposite page for correct fittings)		
			For standard version	4	
			For special version without platform	6	
	350 7995		16 inches (0.406 m) long, with (2) 4-4 FJX fittings	2	
	351 4310		106 inches (2.692 m) long, with (2) 4-4 FJX fittings	1	
	351 4320		111 inches (2.819 m) long, with (2) 4-4 FJX fittings	1	
	351 4330		131 inches (3.327 m) long, with (2) 6-6 FJX fittings	2	
			for "Full Hydraulic" units, (pre-cut to 84 ft [25.6 m]):		
	05-083400		#4 hose (see chart on opposite page for correct fittings)	5	
	05-083500		#6 hose (see chart on opposite page for correct fittings)	4	
	05-083600		#8 hose (see chart on opposite page for correct fittings)	2	
	352 4550		8.5 ft (2.591 m) long, with (2) 4-4 FJX fittings	1	
	352 4560		8.9 ft (2.713 m) long, with (2) 4-4 FJX fittings	1	
144			PROTECTOR, HOSE (rubber sheet) (not shown)	3	
	10-113200		6" x 9" x 1/8" thick		
145	10-113000		8" x 12" x 1/8" thick		
146	03-085900		CABLE, ELECTRICAL (3 conductor, 12 AWG)		
			(Bulk item, order as needed)	A.R.	
147	03-085700		CABLE, ELECTRICAL (4 conductor, 16 AWG)		
			(Bulk item, order as needed)	A.R.	
148	03-488900		CABLE, ELECTRICAL (24 conductor, 16 AWG)		
			(Bulk item, order as needed)	A.R.	
149	03-066400		TIE, CABLE (20" [508 mm] long) for Full Hydraulic	8	
	03-064700		TIE, CABLE (14.5 [368 mm] long) for Electro-Proportional	24	
150	10-060600		CLAMP, LOOP (G6, 3/8")	2	
TITLE				BOOM ASSEMBLY, MPH 60	
SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
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143 HOSE, BOOM, for "Electro-Proportional" or "Simcon" units:

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

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

HOSE, BOOM, for "Full Hydraulic" units:

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

For hoses marked:	Ferrule (for each end):	Fitting:	
		Lower end:	Upper end:
B and C	06-213100 (4M3 KPC-S)	06-144500 (4-6 FJX-S)	06-144300 (4-4 FJX-S)
7, 8, & 10	06-213100 (4M3 KPC-S)	06-144500 (4-6 FJX-S)	06-144500 (4-6 FJX-S)

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

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

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

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

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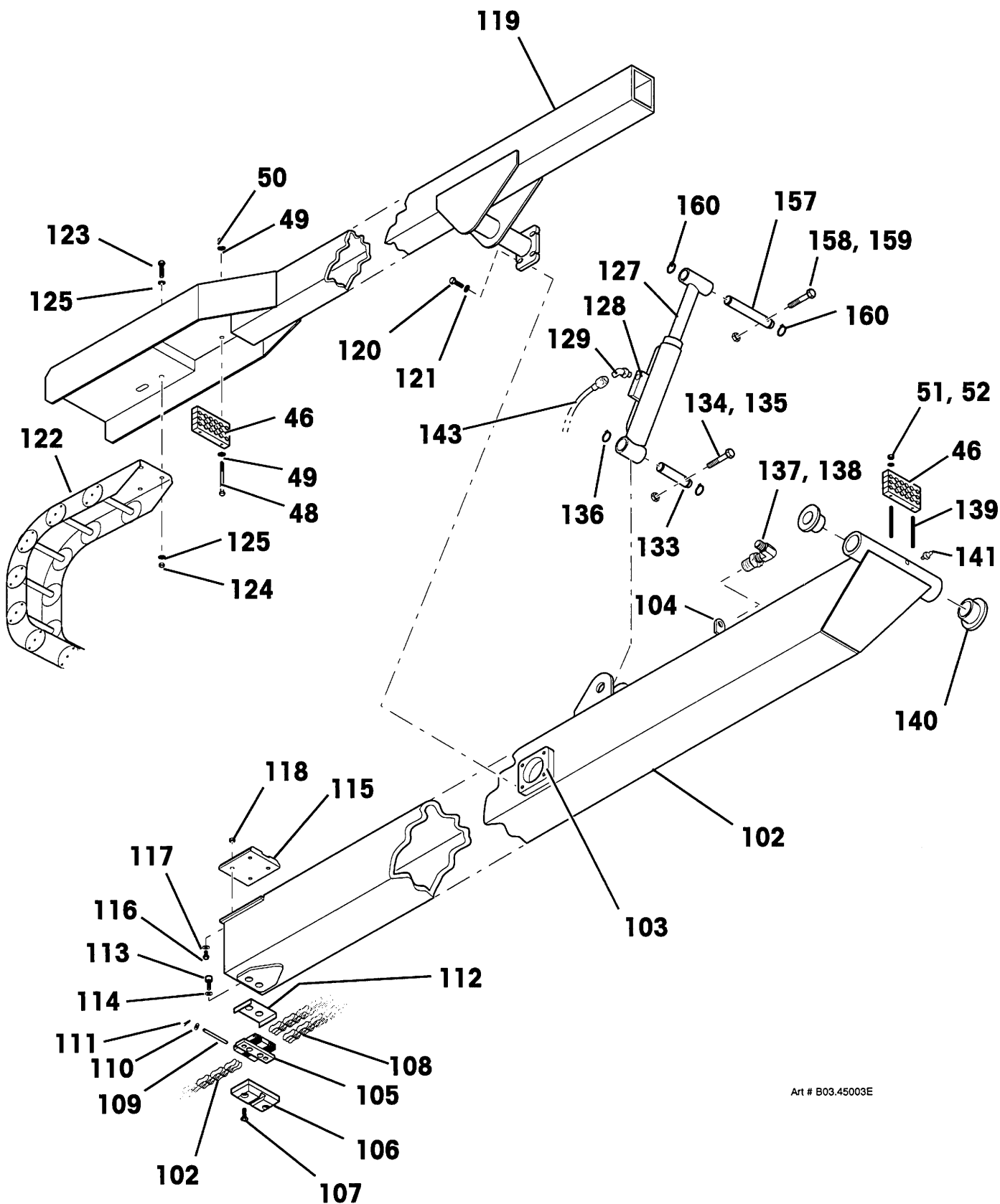
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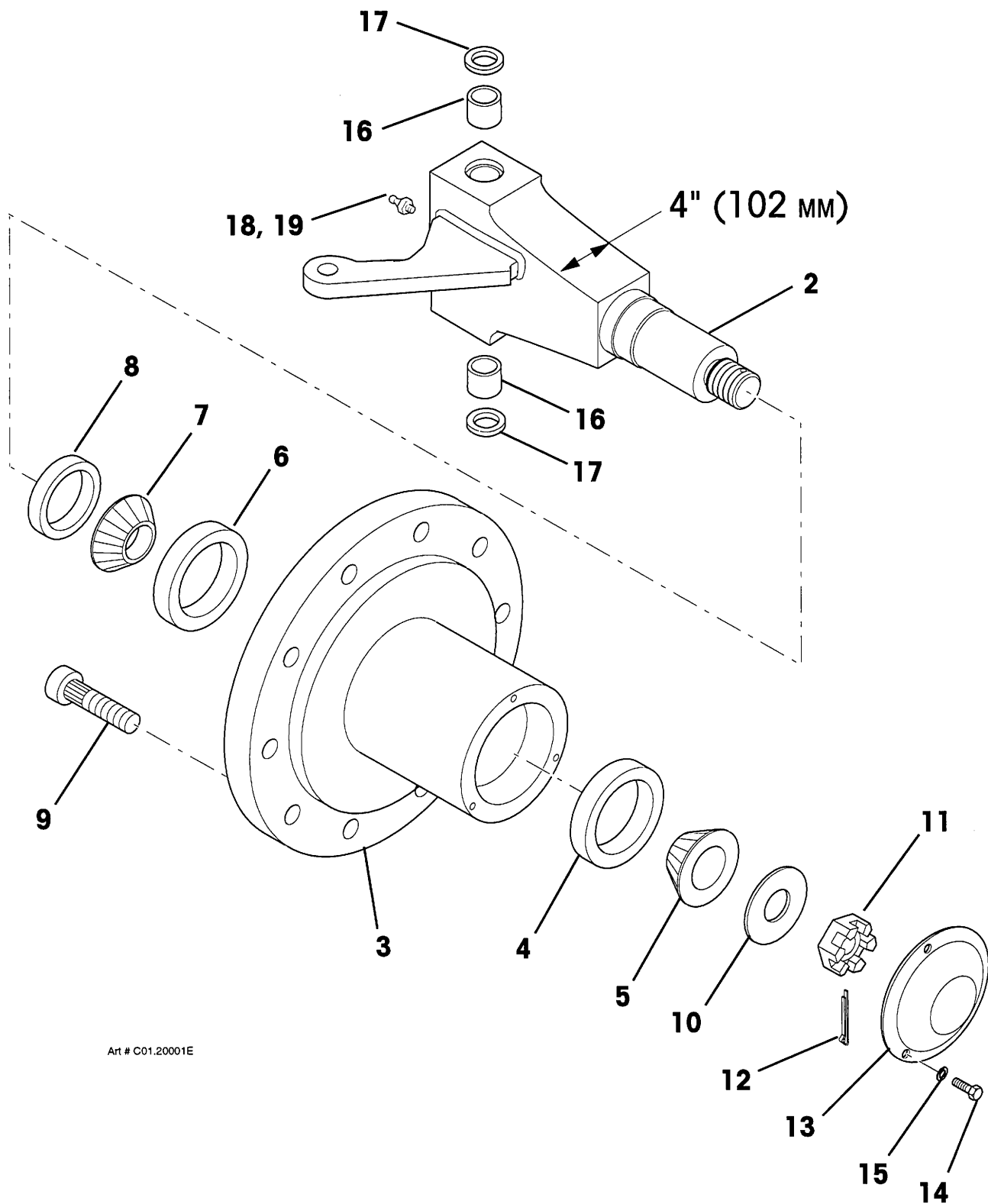
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
1	352 9910 354 4060		SPINDLE ASSEMBLY (Right) Standard type, with no seals at spindle pin Optional type, with seals at spindle pin	1	
	352 9920 354 4070		SPINDLE ASSEMBLY (Left) Standard type, with no seals at spindle pin Optional type, with seals at spindle pin	1	
			Note: this spindle is original equipment on model MP 80 with serial numbers AEA 01427 and up, and later versions of MPH 60, MPN 60, MP 60Z, and MP 70. The spindle assembly can also be used as a replacement on earlier units; however, the components of the earlier spindle are different.		
			To identify this style of spindle, measure the seal (item 7), which has an outside diameter of 5" (127 mm). The distance from the spindle pin centerline to the end of the threads is 14.5" (36.8 cm). The width of the spindle weldment (see illustration) is 4" (102mm). The inner bearing has a larger diameter than the outer bearing.		
			Refer to Parts Plates C01.05 and C01.06, or C01.14 and C01.15 for components of the earlier spindles.		
2	219 8570 235 0700		SPINDLE (Right) Standard type (no counterbore for seals at spindle pin) Optional type (with counterbore for seals at spindle pin)	1	
	219 8580 235 0690		SPINDLE (Left) Standard type (no counterbore for seals at spindle pin) Optional type (with counterbore for seals at spindle pin)	1	
3	219 7900		HUB, SPINDLE	1	
4	08-003400		CUP, BEARING (Outer) (4.437" [113 mm] O.D.)	1	
5	08-003500		CONE AND ROLLER, BEARING (Outer) (2.750" [70 mm] I.D.)	1	
6	08-070500		CUP, BEARING (Inner) (5.000" [127 mm] O.D.)	1	
7	08-070600		CONE AND ROLLER, BEARING (Inner) (3.000" [76 mm] I.D.)	1	
8	01-217500		SEAL, SHAFT OIL (3-3/4" [95 mm] I.D., 5" [127 mm] O.D.)	1	
TITLE				SPINDLE ASSEMBLY, RIGHT AND LEFT HAND	
SECTION C01. PLATE NO. 19 PAGE 01 REV. A DATED 14 FEB., 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 # C01.20001E

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TITLE

SPINDLE ASSEMBLY, RIGHT AND LEFT HAND

PART
NO.

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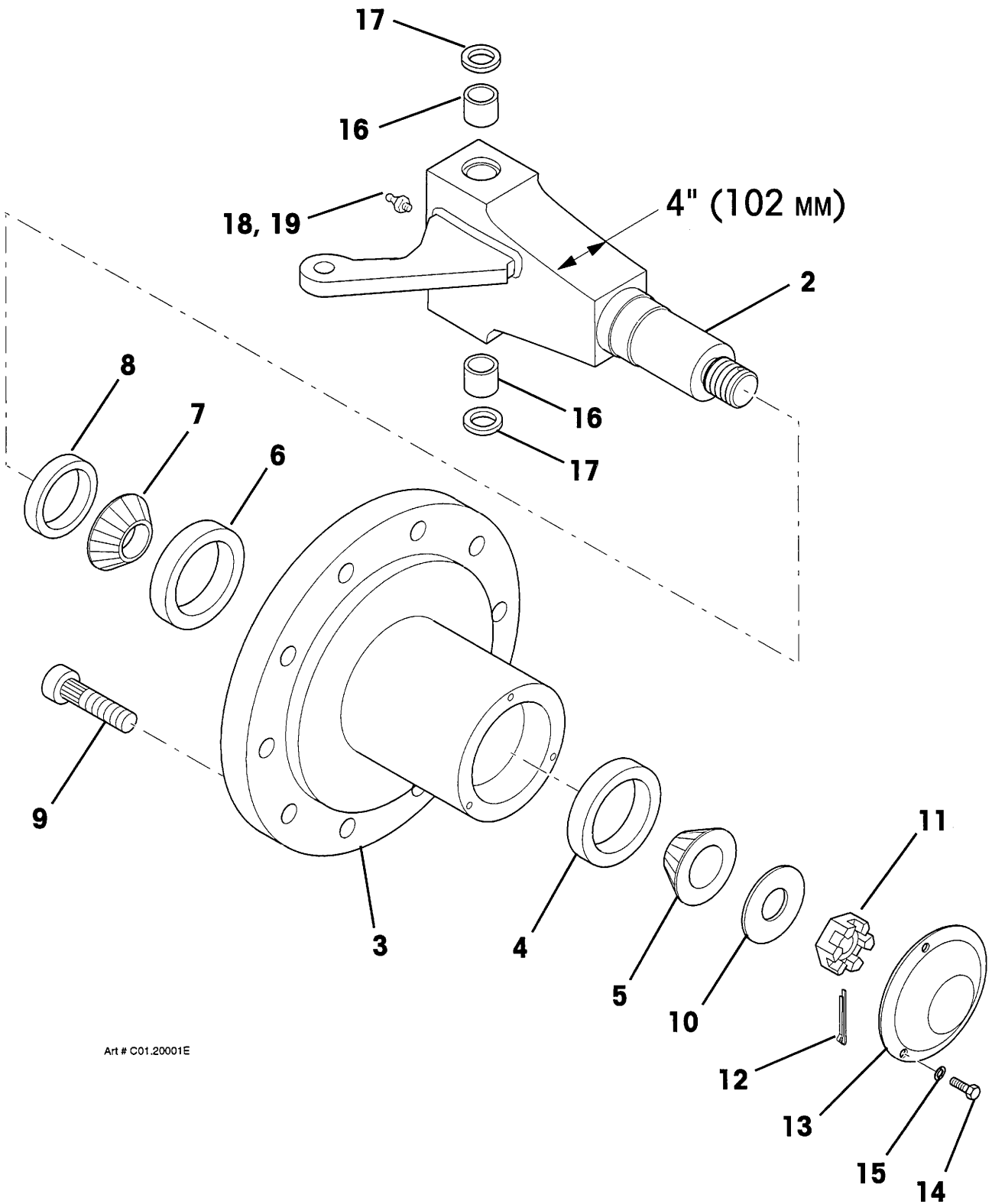
DATED
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PLATE NO. **19**

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Art # C01.20001E

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TITLE

SPINDLE ASSEMBLY, RIGHT AND LEFT HAND

PART
NO.

REV.
A

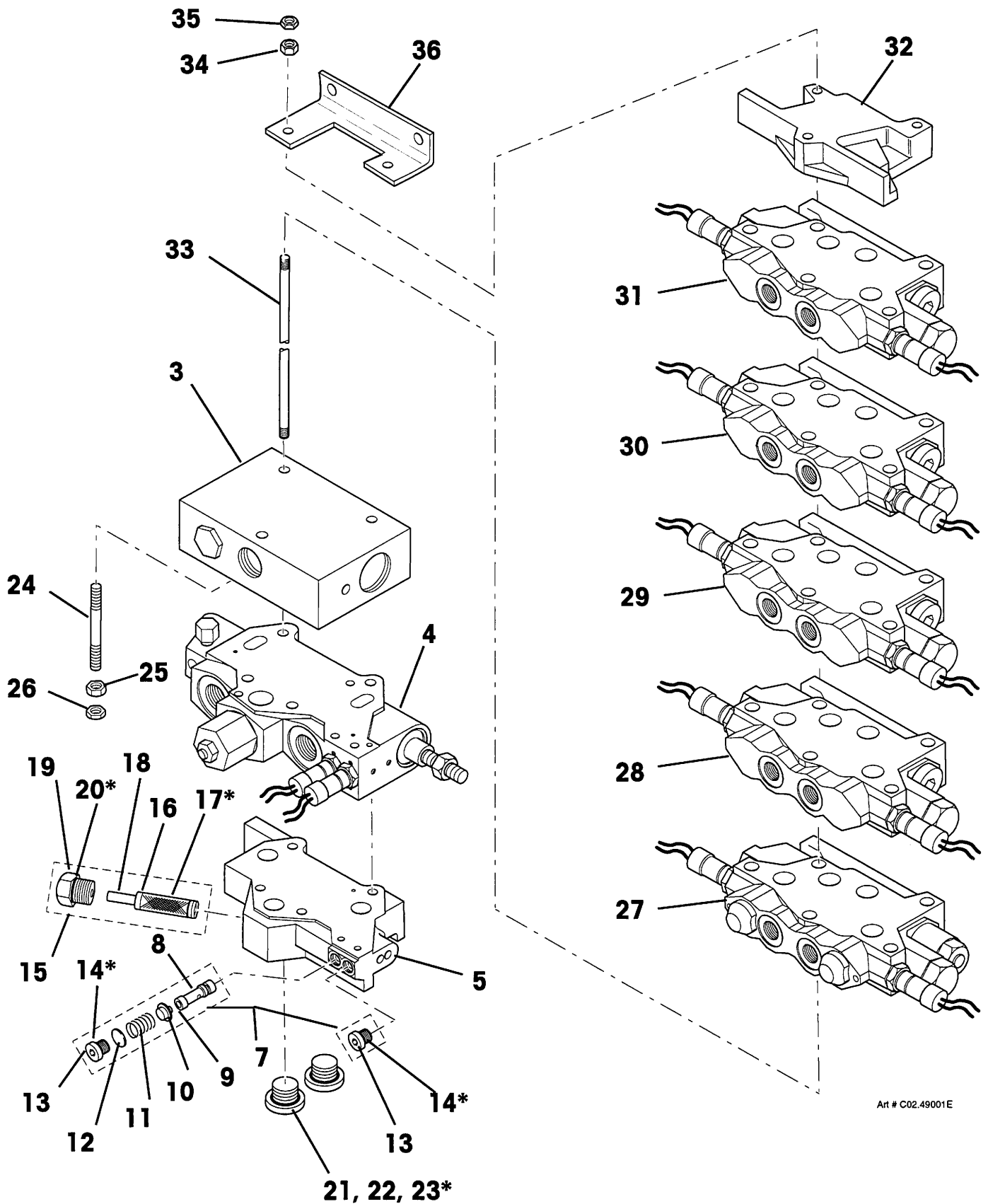
DATED
14 FEB., 1997

SECTION
C01.

PLATE NO. **19**

PAGE **02**

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	-----		GROUND VALVE BANK ASSEMBLY	1
2			For Model MPH 60 (special application)	
	01-246600		GROUND VALVE BANK	1
			For Model MPH 60 (special application)	
3			(nameplate is stamped "VAC 5710-0004-007")	
			MANIFOLD, ADAPTER	1
4			VALVE SEGMENT, DRIVE CONTROL	1
5			INLET, LOAD SENSING	1
6			SEAL KIT, INLET (includes all items with asterisk*)	1
7			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			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			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			VALVE SEGMENT, STEER CONTROL	1
28			VALVE SEGMENT (Customer-defined function)	1
29			VALVE SEGMENT, BOOM TELESCOPE	1
30			VALVE SEGMENT, MAIN BOOM RAISE/ LOWER	1
31	01-231201		VALVE SEGMENT, SWING CONTROL	1
32			PLATE, STACKING	1
33			ROD, TIE	3
34			NUT, HEX	3
35			NUT, HEX JAM	3
36			BRACKET, VALVE BANK MOUNTING	1
TITLE			GROUND VALVE BANK ASSEMBLY, MPH 60 (SPECIAL)	
SECTION	PLATE NO.	PAGE	REV.	DATED
C02.	49	01	-	01 MAY., 1997
			PART NO.	01-246600
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GROUND VALVE BANK ASSEMBLY, MPH 60 (SPECIAL)

PART NO.

01-246600

REV.

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DATED

01 MAY., 1997

SECTION

C02.

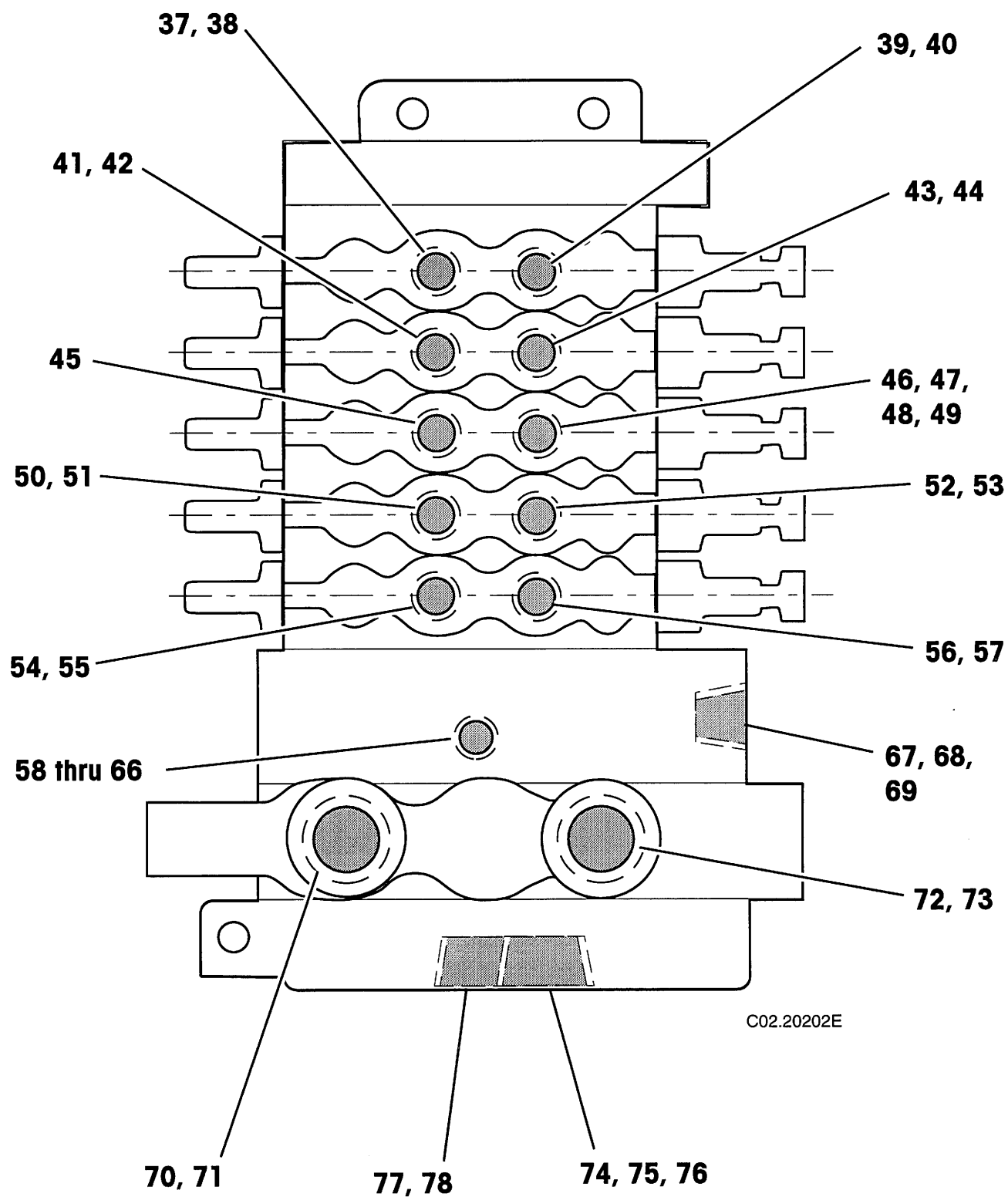
PLATE NO.

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01

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 :		
			Swing Control Valve Segment (Top section):		
37	06-090600		Left port: REDUCER/ EXPANDER (8-6 F50 G5-S)	1	
38	06-047000		45° ELBOW, "O"-RING TO 37° (6 V50X-S)	1	
			Right port:		
39	06-090600		REDUCER/ EXPANDER (8-6 F50 G5-S)	1	
40	06-047000		45° ELBOW, "O"-RING TO 37° (6 V50X-S)	1	
			Main Boom Raise/ Lower Control Valve Segment:		
			Left port:		
41	06-090600		REDUCER/ EXPANDER (8-6 F50 G5-S)	1	
42	06-047000		45° ELBOW, "O"-RING TO 37° (6 V50X-S)	1	
			Right port:		
43	06-090600		REDUCER/ EXPANDER (8-6 F50 G5-S)	1	
44	06-047000		45° ELBOW, "O"-RING TO 37° (6 V50X-S)	1	
			Boom Telescope Control Valve Segment:		
			Left port:		
45	06-047100		45° ELBOW, "O"-RING TO 37° (8 V50X-S)	1	
			Right port:		
46	06-047100		45° ELBOW, "O"-RING TO 37° (8 V50X-S)	1	
47	06-207800		ADAPTER, SWIVEL NUT (8 F650X-S)	1	
48	01-019000		VALVE, FLOW CONTROL (Needle valve, #8 SAE ports)	1	
49	06-047100		45° ELBOW, "O"-RING TO 37° (8 V50X-S)	1	
			Customer-Defined Function Control Valve Segment:		
			Left port:		
50	06-090600		REDUCER/ EXPANDER (8-6 F50 G5-S)	1	
51	06-047000		45° ELBOW, "O"-RING TO 37° (6 V50X-S)	1	
			Right port:		
52	06-090600		REDUCER/ EXPANDER (8-6 F50 G5-S)	1	
53	06-047000		45° ELBOW, "O"-RING TO 37° (6 V50X-S)	1	
			Steer Control Valve Segment:		
			Left port:		
54	06-090600		REDUCER/ EXPANDER (8-6 F50 G5-S)	1	
55	06-047000		45° ELBOW, "O"-RING TO 37° (6 V50X-S)	1	
			Right port:		
56	06-090600		REDUCER/ EXPANDER (8-6 F50 G5-S)	1	
57	06-047000		45° ELBOW, "O"-RING TO 37° (6 V50X-S)	1	
TITLE				GROUND VALVE BANK ASSEMBLY, MPH 60 (SPECIAL)	
SECTION	C02.	PLATE NO.	49	PAGE	02
REV.	-	DATED	01 MAY., 1997	PART NO.	01-246600
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GROUND VALVE BANK ASSEMBLY, MPH 60 (SPECIAL)

PART NO.

01-246600

REV.

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DATED

01 MAY., 1997

SECTION

C02.

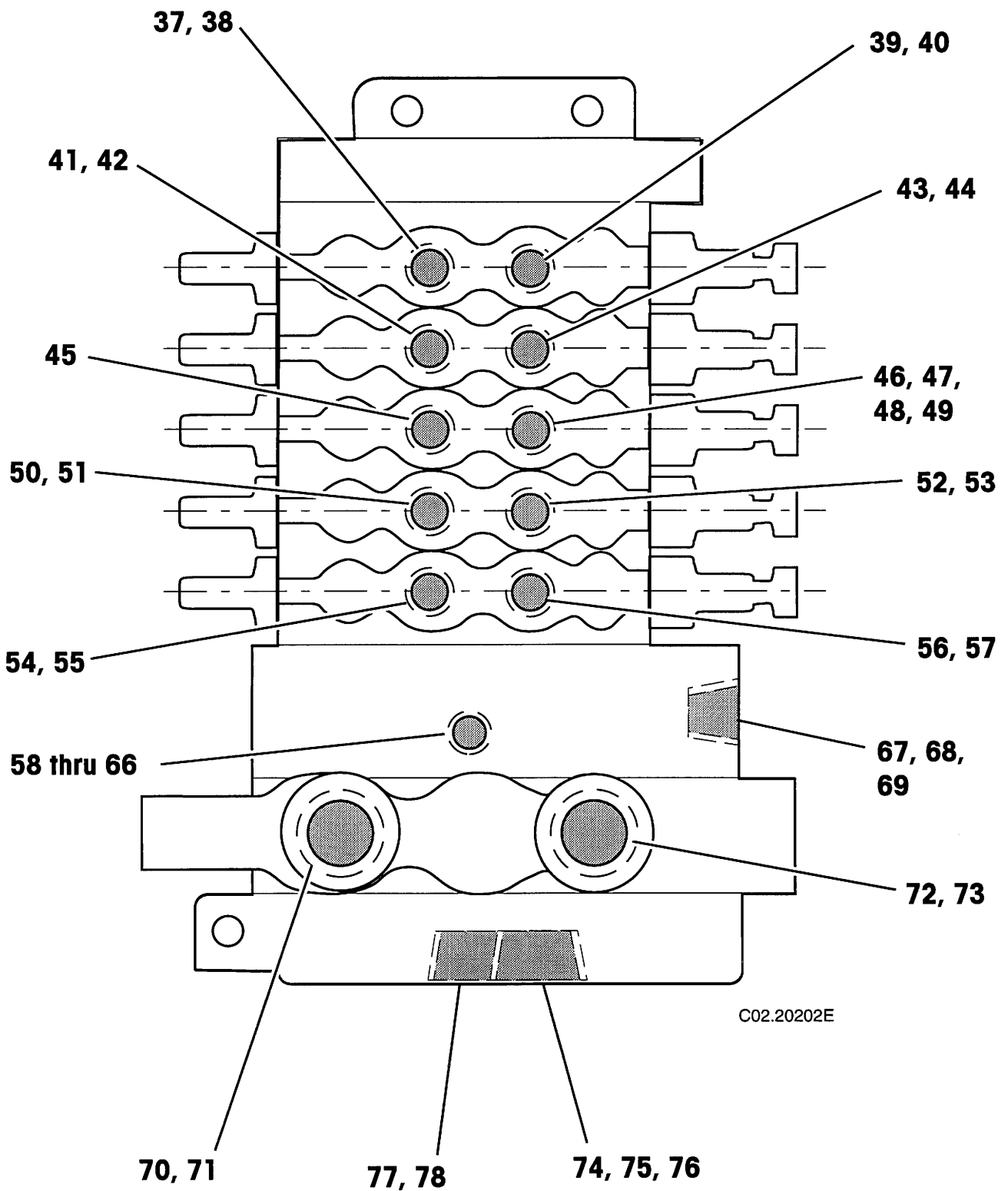
PLATE NO.

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02

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Manifold Adapter Segment:	
			Front port:	
58	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	1
59	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	1
60	06-056000		BRANCH TEE, 37° FEMALE SWIVEL NUT (6 S6X-S)	1
61	06-079000		ADAPTER, SWIVEL NUT (6 F650X-S)	1
62	01-020800		VALVE, POPPET CHECK (3 psi)	1
63	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S)	1
64	353 4140		TUBE ASSEMBLY	1
65	06-086600		ADAPTER, "O"-RING TO FEMALE NPT (6-1/4 F50 G-S)	1
66	01-021000		GAUGE, HYDRAULIC PRESSURE (1/4" male NPT) (0-400 psi [0-28,000 kPa])	1
			Right side port:	
67	06-091100		REDUCER/ EXPANDER (12-8 F50 G5-S)	1
68	06-090600		REDUCER/ EXPANDER (8-6 F50 G5-S)	1
69	06-048500		RUN TEE, MALE "O"-RING TO 37° (6 R50X-S)	1
			Drive Control Valve Segment (Bottom section):	
			Left port:	
70	06-043300		ADAPTER (LONG), "O"-RING TO 37° (12 FF50X-S)	1
71	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	1
			Right port:	
72	06-043300		ADAPTER (LONG), "O"-RING TO 37° (12 FF50X-S)	1
73	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	1
			Underside, forward port:	
74	06-215200		ADAPTER, SWIVEL NUT (16 F 650X-S)	1
75	01-015900		VALVE, CHECK (#16 ports, 3 psi) (current)	1
76	06-052000		90° ELBOW, SWIVEL NUT (16 C6X-S)	1
			Underside, rear port:	
77	06-041400		ADAPTER, "O"-RING TO 37° (16 F50X-S)	1
78	06-052000		90° ELBOW, SWIVEL NUT (16 C6X-S)	1
TITLE			GROUND VALVE BANK ASSEMBLY, MPH 60 (SPECIAL)	
SECTION	C02.	PLATE NO. 49	PAGE 03	REV. - DATED 01 MAY., 1997 PART NO. 01-246600
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TITLE

GROUND VALVE BANK ASSEMBLY, MPH 60 (SPECIAL)

PART
NO.

01-246600

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DATED

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PLATE NO.

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PARTS LIST

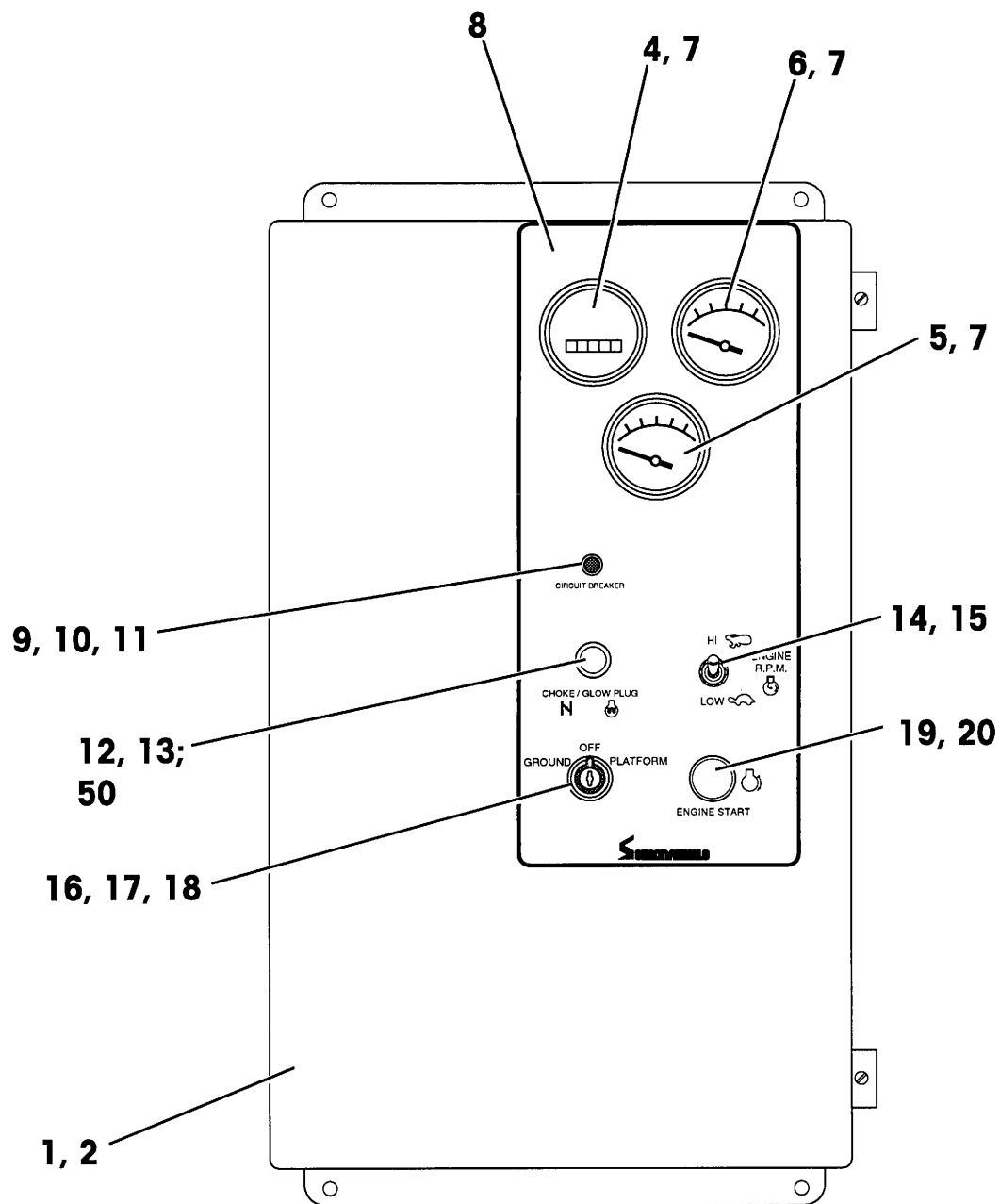
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	355 0100		GROUND CONTROL BOX ASSEMBLY	1
2	03-732000		BOX, ELECTRICAL (Drilled. Includes cover) (22" x 12" x 6" deep)	1
3	10-129100		WEATHERSTRIPPING (3/16" x 3/4" x 50 ft roll. 6 ft [1.83 m] required this application)	A.R.
4	03-492300		METER, HOUR (Solid state, 12 to 24 Volt DC)	1
5	03-492200		METER, VOLT (12 Volt DC, 8 to 18 Volt range)	1
6	03-492400		GAUGE, ENGINE OIL PRESSURE (12 Volt DC)	1
	03-496400		0 to 100 psi (690 kPa) (comes with Control Box Assembly)	
			0 to 40 psi (276 kPa) (needed for some applications)	
7	01-225700		"O"-RING (1.989" I.D., .070" thick) (Meter seal to panel)	3
8	10-279500		DECAL, GROUND CONTROL	1
			English language (comes with Control Box Assembly)	
	10-279502		French language	
	10-279503		German language	
9	03-024700		BREAKER, CIRCUIT (20 Amp)	1
10	01-037400		"O"-RING (.351" I.D., .072" thick)	1
11	03-499800		SEAL, CIRCUIT BREAKER BUTTON	1
12	03-730600		SWITCH, PUSH BUTTON (Green) (Choke/ Glow Plug)	1
13	03-730800		BLOCK, CONTACT (Normally open)	1
14	03-719800		SWITCH, TOGGLE (Two position, maintained contact, single pole, single throw)	1
15	03-506200		SEAL, TOGGLE SWITCH	1
16	03-486500		SWITCH, KEY OPERATED (3 position) (includes 2 keys)	1
17	03-454900		BASE, CONTACT BLOCK	1
18	03-437200		BLOCK, CONTACT	4
19	03-730600		SWITCH, PUSH BUTTON (Green) (Engine Start)	1
20	03-730800		BLOCK, CONTACT (Normally open)	1

TITLE

GROUND CONTROL BOX ASSEMBLY, SIMCON CONTROLS

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SECTION **C03.** PLATE NO. **44** PAGE **01** REV. **A** DATED **25 APR., 1997** PART NO. **355 0100**



Art # C03.44001E

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TITLE

GROUND CONTROL BOX ASSEMBLY, SIMCON CONTROLS

PART NO. 355 0100

REV. A

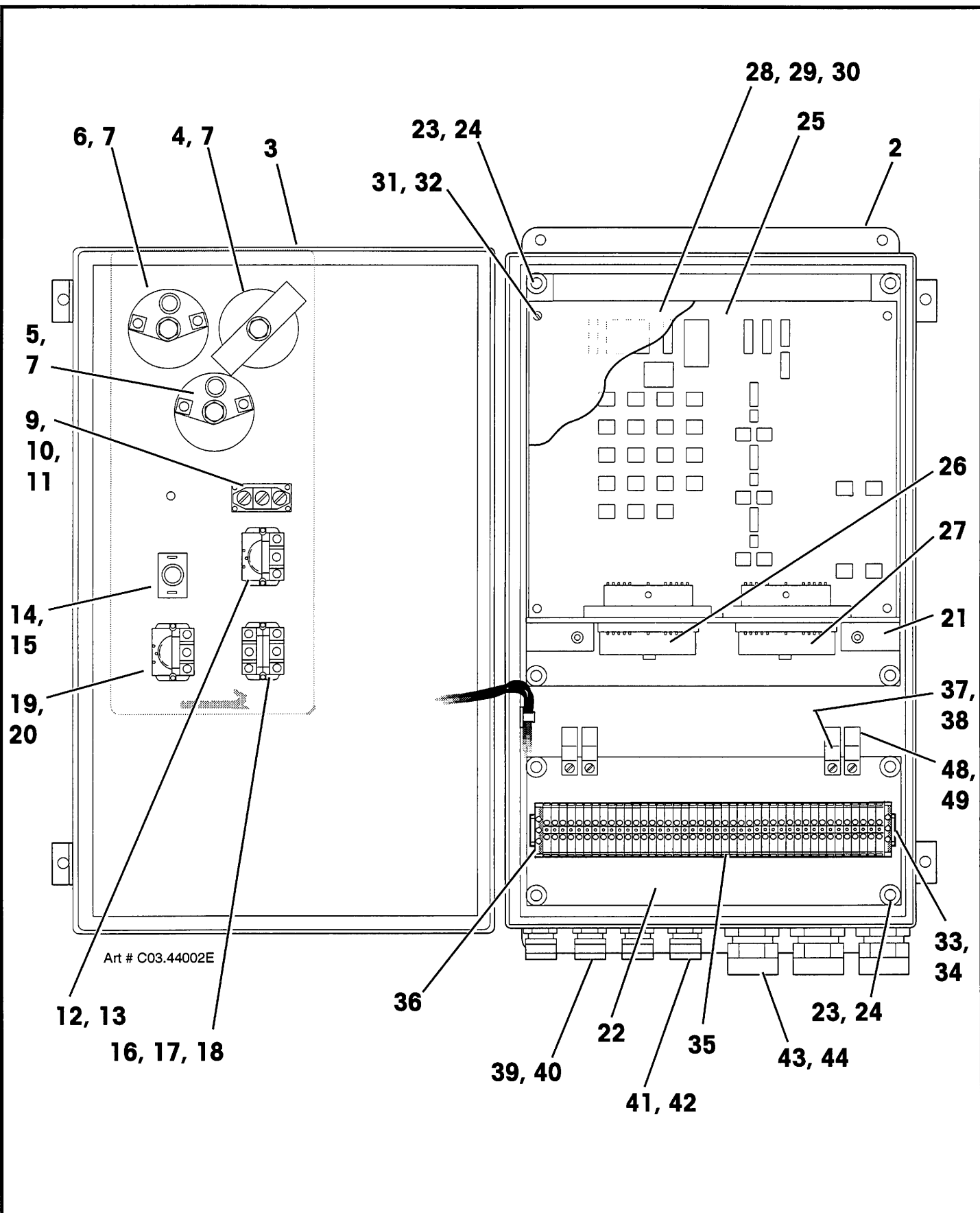
DATED 25 APR., 1997

SECTION C03.

PLATE NO. 44

PAGE 01

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
21	234 7800		GROUND CONTROL BOX ASSEMBLY (continued)	
22	235 0480		SUBPLATE, MOUNTING (upper)	1
			SUBPLATE, MOUNTING (lower)	1
23	07-013414		MACHINE SCREW, ROUND HD (#10-32 x 1/2", Grade 2)	10
24	07-117600		WASHER, EXTERNAL TOOTH (#10)	8
25	03-731000		BOARD, PRINTED CIRCUIT (Controller board)	1
26	03-732200		PLUG, ELECTRICAL (marked "DRC 18-40S A ")	1
27	03-732300		PLUG, ELECTRICAL (marked "DRC 18-40S B ")	1
28	235 0150		COVER, PRINTED CIRCUIT BOARD	1
29			DECAL, "USER ASSIST DIAGNOSTIC SYSTEM . . ." (mounts to outside of circuit board cover)	1
	10-266700		English language (comes with Control Box Assembly)	
	10-266702		French language	
	10-266703		German language	
30	10-269200		DECAL, "WARNING" (Controller board diagram) (mounts to inside of circuit board cover)	
31	07-011344		MACHINE SCREW, PAN HEAD (#8-32 x 3/4", Grade 2)	4
32	07-050009		NUT, HEX LOCK (#8-32, Grade 5)	4
33			RAIL, TERMINAL CARRIER	
	235 1120		1.38" (35 mm) wide, 10.75" (273 mm) long	1
	03-051700		Option. 1m (39.4") long piece. Cut to fit.	A.R.
34	07-011335		MACHINE SCREW, PAN HEAD (#6-32 x 1/2")	2
35	03-505600		BLOCK, TERMINAL	39
36	03-745100		END STOP, TERMINAL BLOCK	2
37	03-469200		SOCKET, RELAY	3
38	03-467500		RELAY (Sealed, 12 Volt DC, normally open, SPDT)	3
39	03-041700		GRIP, CORD (3/8", with .31" to .38" seal)	3
40	03-055700		NUT, CONDUIT LOCK (3/8")	3
41	03-041000		GRIP, CORD (1/2", with .38" to .44" seal)	4
42	03-055500		NUT, CONDUIT (1/2")	4
43	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)	1
44	03-055600		NUT, CONDUIT LOCK (3/4")	1
45	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	A.R.
46	03-064000		TIE, CABLE (7.4" [188 mm] long)	A.R.
47	03-064100		MOUNT, CABLE TIE (Adhesive backed)	A.R.
			The following items are not included with the Ground Control Box:	
48	03-467500		RELAY (Sealed, 12 Volt DC, normally open, SPDT)	
			(for optional lights)	1
49	03-469200		SOCKET, RELAY (for optional lights)	1
50	03-746100		PLUG, HOLE (7/8" dia., two-piece design) (used to fill unused pushbutton holes)	A.R.
TITLE			GROUND CONTROL BOX ASSEMBLY, SIMCON CONTROLS	
SECTION	C03.	PLATE NO.	44	PAGE 02
REV.	A	DATED	25 APR., 1997	PART NO. 355 0100
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TITLE

GROUND CONTROL BOX ASSEMBLY, SIMCON CONTROLS

PART NO. **355 0100**

REV. **A**

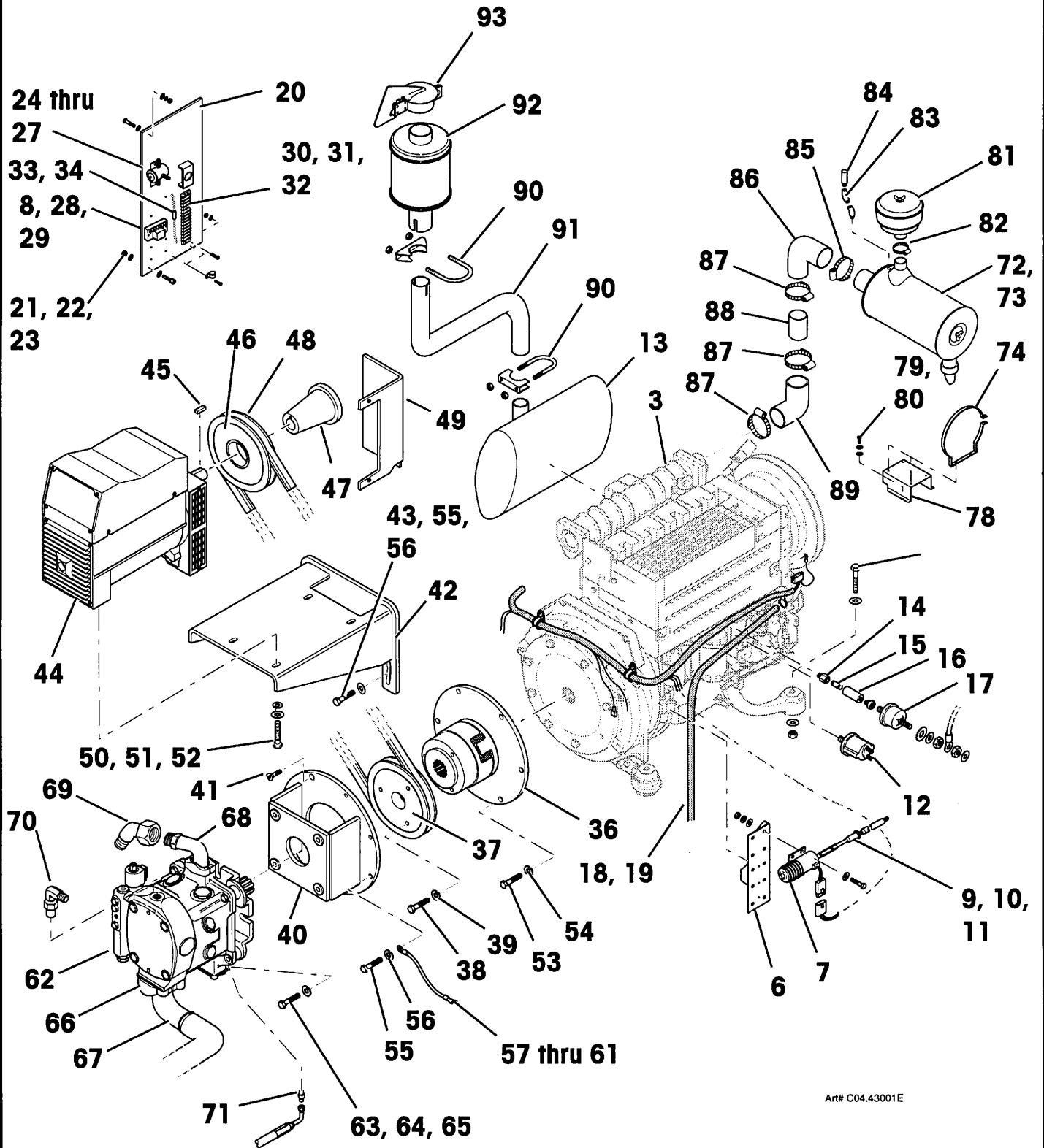
DATED
25 APR., 1997

SECTION **C03.**

PLATE NO. **44**

PAGE **02**

PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
1	---		ENGINE GROUP (Deutz F4L 1011; MPH 60 with John Deere pump and three-phase generator package)	1	
2	---		ENGINE ASSEMBLY (Deutz F4L 1011; MPH 60 with John Deere pump and three-phase generator package)	1	
3	09-046300		ENGINE, DIESEL (Deutz Model F4L1011)	1	
4	09-044801		SOLENOID, FUEL SHUTDOWN (comes with engine)	1	
5	---		MOUNT, ENGINE (comes with engine)	4	
6	---		BRACKET, THROTTLE SOLENOID (comes with engine)	1	
7	03-469400		SOLENOID, THROTTLE (does not include module)	1	
8	03-456803		MODULE, THROTTLE SOLENOID	1	
9	03-469402		ROD, LINKAGE	1	
10	03-469401		BALL JOINT (Straight)	1	
11	03-469405		BALL JOINT (90°)	1	
12	---		SWITCH, OIL PRESSURE (comes with engine)	1	
13	---		MUFFLER (comes with engine)	1	
14	06-211300		ADAPTER, BSP TO NPT (1/8 x 1/8 F3HG-S)	1	
15	11-020013		CLOSE NIPPLE (1/8" NPT, 3/4" long)	1	
16	11-040023		COUPLING, LONG (1/8" NPT)	1	
17	09-052200		SENDING UNIT, OIL PRESSURE GAUGE (0-100 psi [690 kPa])	1	
18	05-081900		FUEL LINE (5/16") (Bulk item, order as needed. 9" [22.9 cm] needed this application)	A.R.	
19	09-004600		CLAMP, WORM (1/4" to 5/8")	2	
20	235 2040		PANEL, ENGINE ACCESSORY	1	
21	07-050015		NUT, HEX (5/16"-18)	8	
22	07-065015		WASHER, HELICAL LOCK (5/16")	4	
23	07-060015		WASHER, FLAT (5/16", SAE)	4	
24	03-051300		RELAY (12 Volt DC, single pole, single throw)	1	
25	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	2	
26	07-060014		WASHER, FLAT (1/4", SAE)	2	
27	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2	
28	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4")	2	
29	07-062009		WASHER, FLAT (#8)	4	
30	03-468700		BLOCK, TERMINAL (14 station)	1	
31	07-011334		MACHINE SCREW, ROUND HEAD (#6 32 x 3/4")	2	
32	07-050007		NUT, STOP (#6-32, Grade 5)	2	
33	03-061800		DIODE, RECTIFIER (600 Volt, 6 Amp, MR 75)	1	
34	03-066800		LOOM, WIRE (3/4") (Bulk item, order as needed. 5 ft [1.5 m] required in this application)	A.R.	
TITLE			ENGINE GROUP, DEUTZ F4L 1011		
SECTION	C04.	PLATE NO.	43	PAGE	01
REV.	-	DATED	02 MAY., 1997	PART NO.	
			Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172		



Art# C04.43001E

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TITLE

ENGINE GROUP, DEUTZ F4L 1011

PART
NO.

REV.
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DATED
02 MAY., 1997

SECTION

C04.

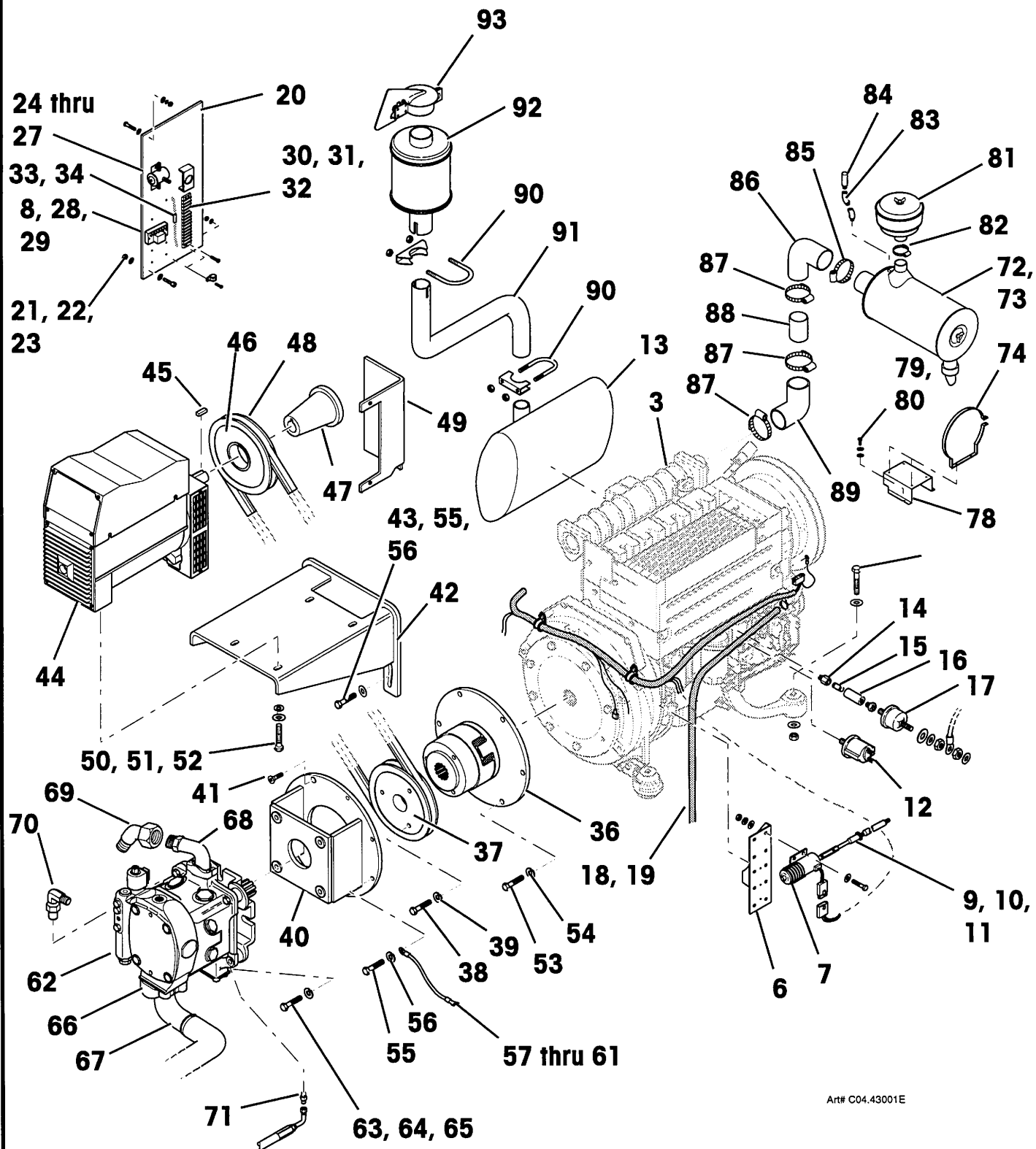
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
35	232 4610		ENGINE GROUP (continued) ENGINE ASSEMBLY (continued) GENERATOR ASSEMBLY	1	
36	02-050700		COUPLING, PUMP (special, for generator mount)	1	
37	212 7890		SHEAVE (lower)	1	
38	07-003027		CAP SCREW, HEX HEAD (5/16"-18 x 1-1/2", Grade 5)	3	
39	07-065015		WASHER, HELICAL LOCK (5/16")	3	
40	232 4450		ADAPTER, PUMP (special, for generator mount) (8 hole, 12-3/8" pilot flywheel housing to "C" [2 hole, 5" pilot] pump mount)	1	
41	- - -		CAP SCREW, FLAT SOCKET HEAD (M10-1.5 x 25 mm)	2	
42	232 4490		BRACKET, GENERATOR MOUNTING	1	
43	07-063006		WASHER, FLAT (M10)	2	
44	03-706600		GENERATOR (5 kW, 3 phase)	1	
45	- - -		KEY, GENERATOR SHAFT	1	
46	09-057700		SHEAVE (upper)	1	
47	08-044800		BUSHING, TAPERED	1	
48	10-283400		BELT	1	
49	237 2370		GUARD, SHEAVE	1	
50	07-003068		CAP SCREW, HEX HEAD (7/16"-14 x 1-3/4", Grade 5)	4	
51	07-062017		WASHER, FLAT (7/16")	4	
52	07-050017		NUT, LOCK (7/16"-14, Grade 5)	4	
53	07-005149		CAP SCREW, HEX HEAD (M8 x 25 mm, Grade 8.8)	6	
54	07-066005		WASHER, LOCK (8 mm)	6	
55	07-005184		CAP SCREW, HEX HEAD (M10 x 25 mm, Grade 8.8)	6	
56	07-066006		WASHER, LOCK (10 mm)	6	
57	03-074000		CABLE, GROUND (Black, 9-3/4" (25 cm) long]	1	
58	07-062018		WASHER, FLAT (1/2")	1	
59	07-062016		WASHER, FLAT (3/8")	1	
60	07-065016		WASHER, HELICAL LOCK (3/8")	1	
61	07-040016	D08.13	NUT, HEX (3/8"-16, Grade 5)	1	
62	01-019500		PUMP ASSEMBLY, HYDRAULIC (50 c.c./ rev. output) (marked "ROPV 322 XXXXXX" and "24 72 R11531")	1	
63	07-003126		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/4", Grade 5)	4	
64	07-060021		WASHER, FLAT (5/8")	4	
65	07-065021		WASHER, HELICAL LOCK (5/8")	4	
TITLE				ENGINE GROUP, DEUTZ F4L 1011	
SECTION C04.				PLATE NO. 43	
PAGE 02				REV. -	
DATED 02 MAY., 1997				PART NO.	
				Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	



Art# C04.43001E

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TITLE

ENGINE GROUP, DEUTZ F4L 1011

PART NO.

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DATED

02 MAY., 1997

SECTION

C04.

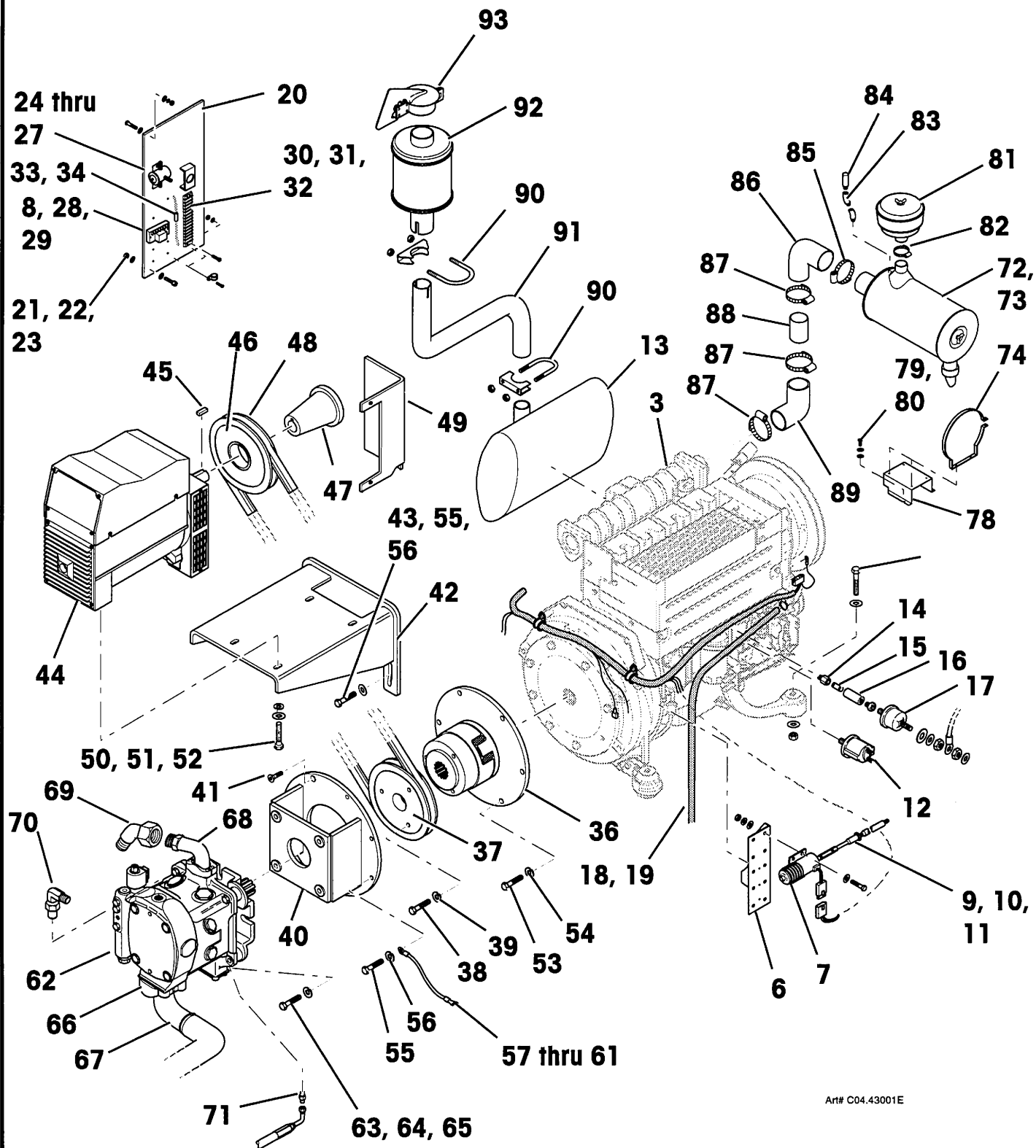
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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
66	06-216700		ENGINE GROUP (continued) ENGINE ASSEMBLY (continued) FLANGE, SUCTION FITTING (1-1/2")		
			(includes two flange halves and mounting hardware)		1
67	06-216600		90° FITTING (1-1/2" stem to 1-1/2" hose)		1
68	06-045800		90° ELBOW, "O"-RING TO 37° (16 C50X-S)		1
69	06-053400		45° ELBOW, SWIVEL NUT (16 V6X-S)		1
70	06-044800		90° ELBOW, "O"-RING TO 37° (8 C50X-S)		1
71	06-039300		ADAPTER, "O"-RING TO 37° (4 F50X-S)		1
72	09-007000		AIR CLEANER ASSEMBLY		1
73	- - -		ELEMENT, AIR CLEANER		1
74	09-003400		BAND, MOUNTING (8" dia.)		2
75	- - -		SCREW		4
76	- - -		NUT, LOCK		4
77	- - -		WASHER, FLAT		4
78	217 7020		BRACKET, AIR CLEANER		1
79	- - -		SCREW, SELF TAPPING		4
80	- - -		WASHER, FLAT		4
81	09-007100		PRE-CLEANER (3-3/4" [95 mm] dia.)		1
82	- - -		CLAMP, HOSE (Worm type) (comes with pre-cleaner)		1
83	06-081300		45° STREET ELBOW (1/8 CD45-S)		2
84	09-009900		INDICATOR, AIR FILTER SERVICE (20")		1
85	09-008600		CLAMP, HOSE (Worm type) (4")		1
86	09-009700		ELBOW, RUBBER (3-1/2" to 3")		1
87	09-005700		CLAMP, HOSE (Worm type) (3-1/2")		3
88	09-023800		TUBE, STEEL (3" dia.) (comes as 10 ft [3.05 m] length)	A.R.	
89	09-003500		ELBOW, RUBBER (3" I.D.)		1
90	09-015400		CLAMP, MUFFLER (2")		2
91	09-056900		PIPE, EXHAUST		1
92	09-072600		PURIFIER, EXHAUST		1
93	10-003800		RAIN CAP (2")		1
TITLE				ENGINE GROUP, DEUTZ F4L 1011	
SECTION	C04.	PLATE NO.	43	PAGE	03
REV.	-	DATED	02 MAY., 1997	PART NO.	
				Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	



Art# C04.43001E

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TITLE

ENGINE GROUP, DEUTZ F4L 1011

PART
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DATED
02 MAY., 1997

SECTION

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PLATE NO.

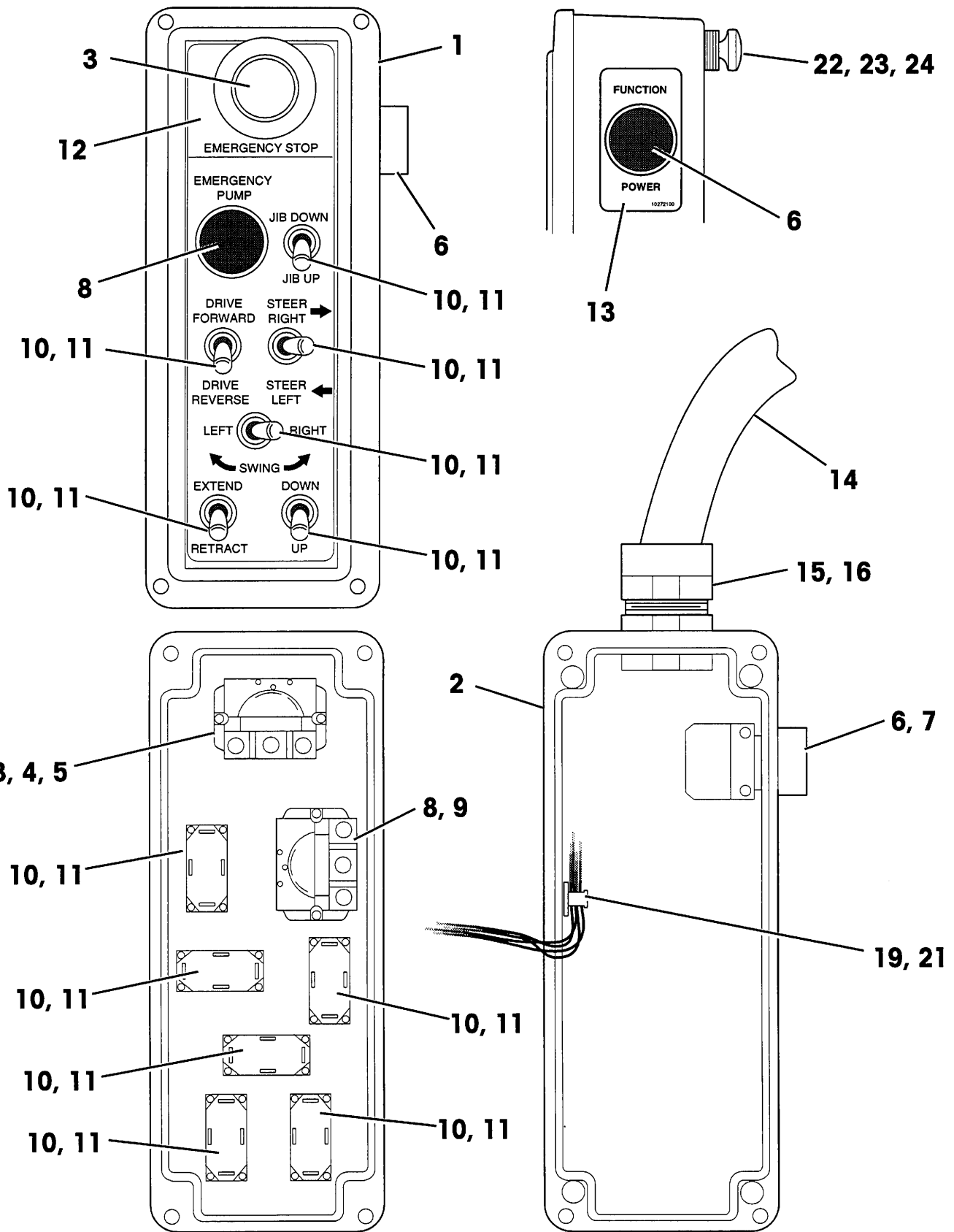
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PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2830		REMOTE PENDANT ASSEMBLY	1
2			BOX, ELECTRICAL (includes cover)	1
	03-063000		Undrilled	
	234 9240		Drilled for this application (will have hole for 1/2" cord grip)	
3	03-702000		SWITCH, PUSH BUTTON (Emergency stop)	1
4	03-454900		BASE, CONTACT BLOCK	1
5	03-437300		BLOCK, CONTACT (Normally closed)	1
6	03-730600		SWITCH, PUSH BUTTON (Green) (Function Power)	1
7	03-730800		BLOCK, CONTACT (Normally open)	1
8	03-730700		SWITCH, PUSH BUTTON (Yellow) (Emergency pump)	1
9	03-730800		BLOCK, CONTACT (Normally open)	1
10	03-719900		SWITCH, TOGGLE (Three position, momentary contact, SPDT)	6
11	03-506200		SEAL, TOGGLE SWITCH	6
12			DECAL, REMOTE CONTROL PENDANT (Front)	1
	10-265200		English language (included with Pendant Assembly)	
	10-265202		French language	
13	10-265203		German language	
			DECAL, "FUNCTION POWER" (Side)	1
	10-272100		English language (included with Pendant Assembly)	
	10-272102		"FONCTION/ PUISSANCE" (French language)	
	10-272103		"FUNKTION KRAFT" (German language)	
14			CABLE, ELECTRICAL (Type F 570) (Bulk item. Need 20 ft [6 m])	A.R.
	03-740300		19 conductor, 18 AWG (current versions)	
	03-488900		24 conductor, 16 AWG (some earlier versions)	
15			GRIP, CORD	1
	03-041000		Plastic, 1/2", with .38" to .44" seal (with 19 conductor cable)	
	03-063200		3/4", with .69" to .75" seal (with 24 conductor cable)	
16			NUT, CONDUIT LOCK	1
	03-055500		1/2" (with 19 conductor cable)	
	03-055600		3/4" (with 24 conductor cable)	
17	03-098200		TERMINAL, END FLAG	18
18	03-096000		TERMINAL, SLIP ON (Blue, "piggyback" insulated, #14-16 AWG)	6
19	03-439000		TIE, CABLE (3.6" [92 mm] long)	8
20	03-064000		TIE, CABLE (7.4" [188 mm] long)	8
21	03-064100		MOUNT, CABLE TIE (adhesive backed)	3
			The following items <u>are not</u> included as part of the Remote Pendant Assembly:	
22	01-031705		KNOB, CONTROL BOX MOUNTING	2
23	07-008353		CAP SCREW, SOCKET HEAD (#10-24 x 1", Grade 8)	2
24	07-062011		WASHER, FLAT (#10)	10
TITLE REMOTE PENDANT ASSEMBLY, WITH JIB BOOM TOGGLE)				
SECTION	C06.	PLATE NO.	202	PAGE 01
REV.	B	DATED	04 MAR., 1997	PART NO. 354 2830
 Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172				



Art # C06.20201E



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TITLE

REMOTE PENDANT ASSEMBLY, WITH JIB BOOM TOGGLE)

PART NO.

354 2830

REV.

B

DATED

04 MAR., 1997

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PLATE NO.

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PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 9160		PLATFORM CONTROL BOX ASSEMBLY	1
2	236 8880		BOX, ELECTRICAL (16.3" x 12.3" x 7.2" deep. Includes cover) Drilled for this application	1
3	10-279200		PLACARD, PLATFORM CONTROL (Lexan, English language)	1
4	03-730100		SWITCH, TOGGLE (Off/ On/ Start) (3 2NT91-50. Three position [1 momentary, 2 maintained] DPDT)	1
5	03-730000		SWITCH, TOGGLE (Oper. Speed, Choke/ Glow Plug) (3 1NT91-5. Three position [1 momentary, 2 maintained] SPDT)	1
6	03-719800		SWITCH, TOGGLE (Lights) (3 1NT91-2. Two position, maintained contact, single pole, single throw)	1
7	03-719800		SWITCH, TOGGLE (Hydraulics Active/ Inactive) (3 1NT91-2. Two position, maintained contact, single pole, single throw)	1
8	03-719800		SWITCH, TOGGLE (Machine Functions Speed) (3 1NT91-2. Two position, maintained contact, single pole, single throw)	1
9	03-719900		SWITCH, TOGGLE (Frame Tilt; Yoke Rotate; Yoke Level) (3 1NT91-7. Three position [2 momentary, 1 maint.] SPDT)	3
10	03-506200		SEAL, TOGGLE SWITCH	8
11	03-730400		LENS, PILOT LAMP (Clear) (Engine distress)	1
12	03-730500		DIODE, LIGHT-EMITTING (L.E.D., 12 Volt AC/ DC)	1
13	03-730600		SWITCH, PUSH BUTTON (Green) (Horn)	1
14	03-730800		BLOCK, CONTACT (Normally open)	1
15	03-730700		SWITCH, PUSH BUTTON (Yellow) (Emergency Pump)	1
16	03-730800		BLOCK, CONTACT (Normally open)	1
17	03-702000		SWITCH, PUSH BUTTON (Emergency stop) (Red "pull to release" style)	1
18	03-454900		BASE, CONTACT BLOCK	1
19	03-437300		BLOCK, CONTACT (Normally closed)	1
20	03-718800		CONTROLLER, SINGLE AXIS (with rocker) (Drive/ Steer)	1
21	03-718700		CONTROLLER, DUAL AXIS (Boom Up/ Down; Swing)	1
22	03-718900		CONTROLLER, SINGLE AXIS (Boom Extend/ Retract)	1

TITLE

PLATFORM CONTROL BOX, MPH 60, MPH 80 (SPECIAL)

Simon Aerials Inc.
10600 West Brown Deer Road
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Parts Phone 1-800-47-SIMON
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SECTION

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PLATE NO.

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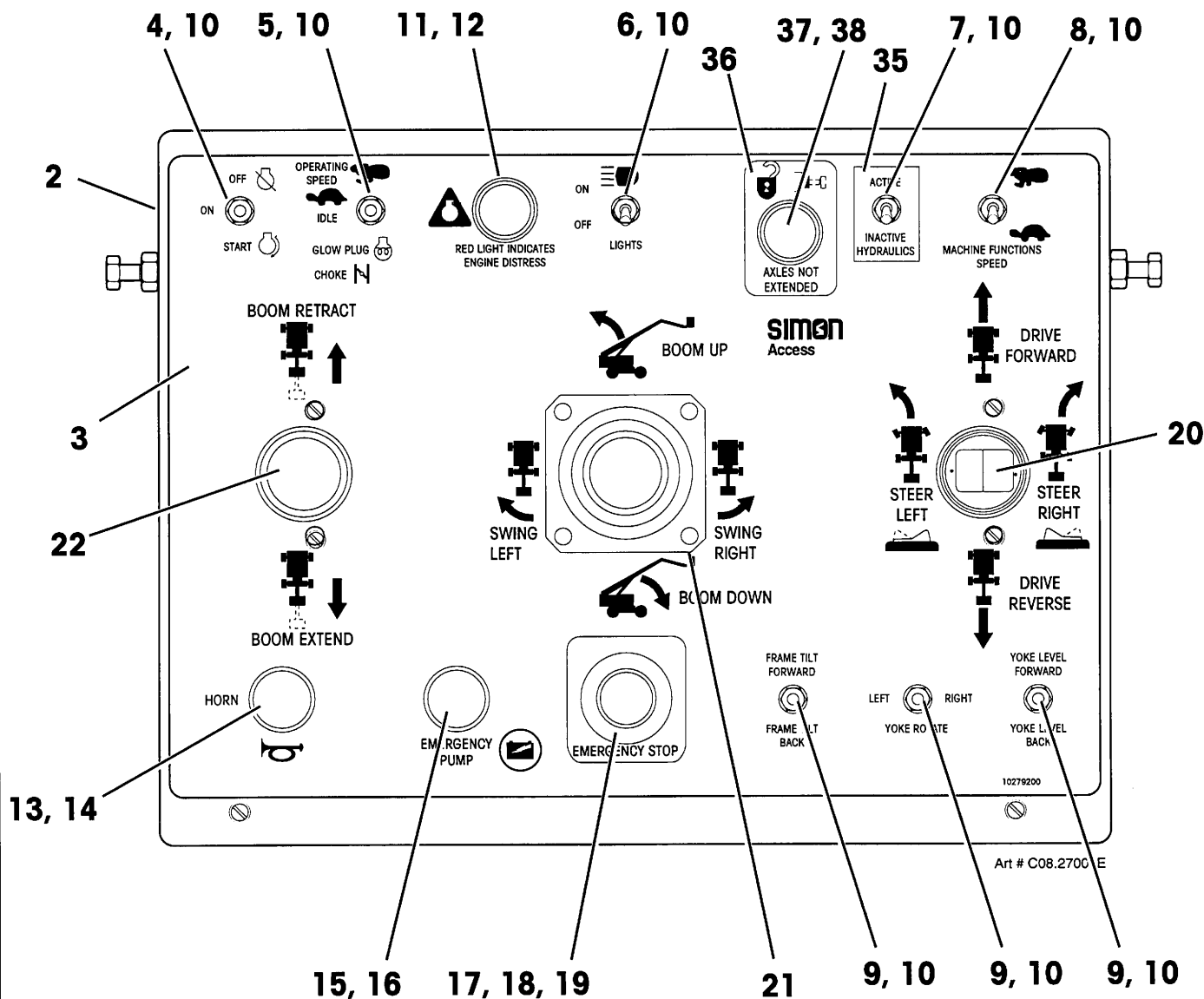
REV.

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DATED

18 APR., 1997

PART NO.



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TITLE

PLATFORM CONTROL BOX, MPH 60, MPH 80 (SPECIAL)

PART NO.

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PARTS LIST

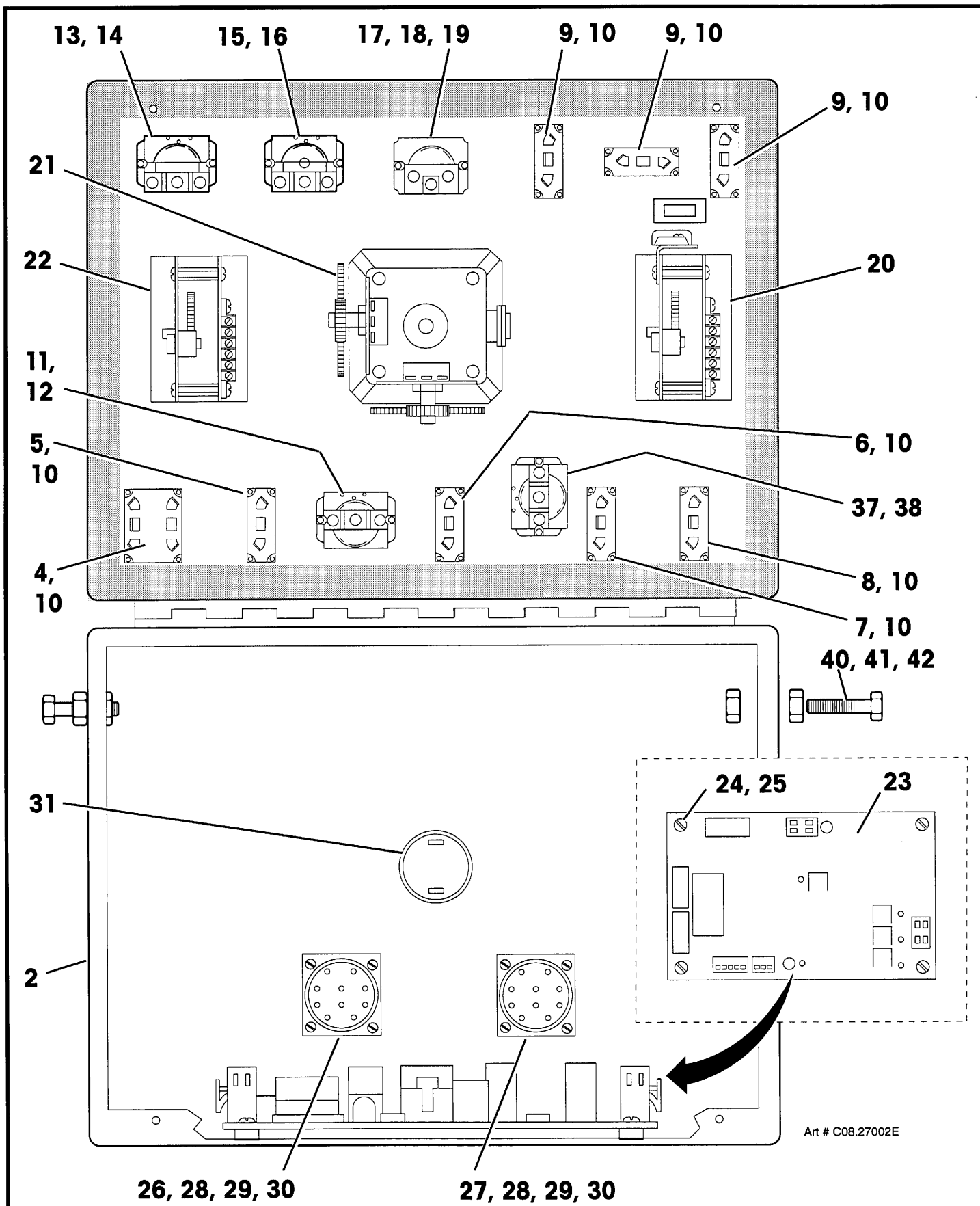
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			PLATFORM CONTROL BOX ASSEMBLY (continued)	
23	03-719700		BOARD, PRINTED CIRCUIT	1
24	07-011344		MACHINE SCREW, PAN HEAD (#8-32 x 3/4", Grade 2)	4
25	07-050009		NUT, HEX LOCK (#8-32, Grade 5)	8
26	03-719400		RECEPTACLE, ELECTRICAL (9 pin) (Marked "HD10-9-96 P")	1
27	03-719600		RECEPTACLE, ELECTRICAL (9 pin) (Marked "HD10-9-16 P")	1
28	03-719500		GASKET, NINE PIN CONNECTOR	2
29	07-117700		MACHINE SCREW, PHILLIPS HEAD (#4-40 x 1", stainless steel)	8
30	07-117800		NUT, MACHINE (#4-40, stainless steel)	8
31	03-731100		ALARM, AUDIO (108 db)	1
32	03-439000		TIE, CABLE (3.6" [92 mm] long)	A.R.
33	03-064000		TIE, CABLE (7.4" [188 mm] long)	A.R.
34	03-064100		MOUNT, CABLE TIE (Adhesive backed)	A.R.
35	No Part No.		DECAL, "ACTIVE/ INACTIVE HYDRAULICS"	1
			The following items are not included with the Platform Control Box.	
36	10-279700		DECAL, "AXLES NOT EXTENDED" (MPH 80 only)	1
37	03-730400		LENS, PILOT LAMP (Clear) (Axle Warning) (MPH 80 only)	1
38	03-730500		DIODE, LIGHT-EMITTING (L.E.D., 12 Volt AC/ DC) (MPH 80 only)	1
39	03-497900		PLUG, PLASTIC (1/2" dia., "Panel Seal", to fill unused toggle holes)	A.R.
40	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	2
41	07-047017		NUT, JAM (3/8"-16, Grade 5)	2
42	07-040016		NUT, HEX (3/8"-16, Grade 5)	2

TITLE

PLATFORM CONTROL BOX, MPH 60, MPH 80 (SPECIAL)

Simon Aerials Inc.
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SECTION **C08.** PLATE NO. **27** PAGE **02** REV. **-** DATED **18 APR., 1997** PART NO.



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TITLE

PLATFORM CONTROL BOX, MPH 60, MPH 80 (SPECIAL)

PART NO.

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PARTS LIST

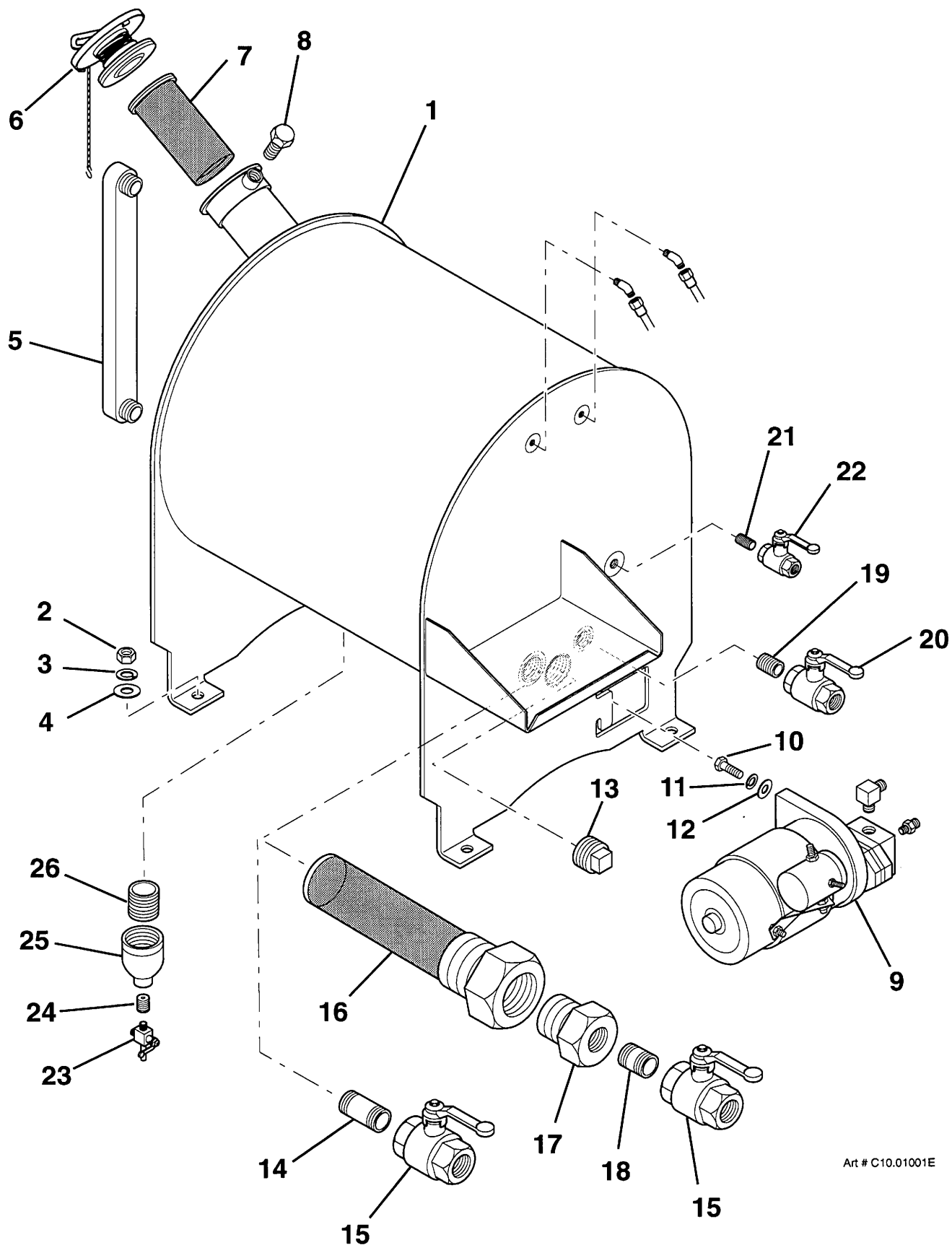
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			TANK, HYDRAULIC (Capacity 35.3 gallons [133.6 liters]) Standard tank: Tank is 32" (.8 M) high x 24-1/4" (.62 M) long: Battery tray measures 7-1/2" x 12-7/8" (190 x 327 mm). Has 1-1/2" and 2" NPT flanges under battery tray. Has no NPT fitting on underside for drain.	1
	200 3104			
			Optional tanks: Tank is 32" (.8 M) high x 24-1/4" (.62 M) long: Battery tray measures 7-1/2" x 12-7/8" (190 x 327 mm). Has (2) 1" and (2) 1-1/2" NPT flanges under tray. Has 2" NPT fitting on underside for drain.	
	217 7150			
	216 5650		No battery tray. Has (2) 1" and (2) 1-1/2" NPT flanges. Has 2" NPT fitting on underside for drain.	
	218 2670		Battery tray measures 8" x 17-3/8" (203 x 441 mm). Has 4" NPT flange under tray for optional strainer. Has 2" NPT fitting on underside for drain.	
	209 7073		Tank is 25-1/4" (.64 M) high x 24-1/4" (.62 M) long: Has 1-1/2" and 2" NPT flanges. Has no battery tray. Has no NPT fitting on underside for drain.	
	231 2960		Tank is 32" (.8 M) high x 18-1/2" (.47 M) long: Has (2) 1-1/2" NPT flanges. Has no battery tray. Has no NPT fitting on underside for drain.	
2	07-040018		NUT, HEX (1/2"-13, Grade 5)	4
3	07-065018		WASHER, HELICAL LOCK (1/2")	4
4	07-062018		WASHER, FLAT (1/2")	8
5	10-033800	D12.05	GAUGE, SIGHT (14" [35.56 cm] long)	1
6	10-002100		CAP, HYDRAULIC TANK FILLER	1
7	10-001000		STRAINER ASSEMBLY	1
8	01-008200		PLUG, VENT (with 40 micron filter)	1
9	See Index	D07. - -	PUMP, EMERGENCY HYDRAULIC	1
10	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	2
11	07-065016		WASHER, HELICAL LOCK (3/8")	2
12	07-062016		WASHER, FLAT (3/8")	2
13	11-050050		PLUG, SQUARE HEAD (2" NPT) (when 1-1/2" ball valve is used, on tanks without optional suction strainer)	1
	11-075100		PLUG, SQUARE HEAD (1-1/2" NPT) (when 2" ball valve is used, on tanks without optional suction strainer)	1
14	11-075800		NIPPLE, PIPE (1-1/2" NPT, 3" long)	1
	11-020016		NIPPLE, PIPE (2" NPT, 2-1/2" long) (some applications)	1
15	01-063000		VALVE, BALL (Shutoff valve) (1-1/2" NPT)	1
	01-018400		VALVE, BALL (Shutoff valve) (2" NPT) (some applications)	1
16	01-200900		STRAINER, SUCTION (option)	1

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

PLATE NO. C10.01 **SIMON AERIALS INC.**

REV. 08 SEP., 1995

PART NO.



Art # C10.01001E

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

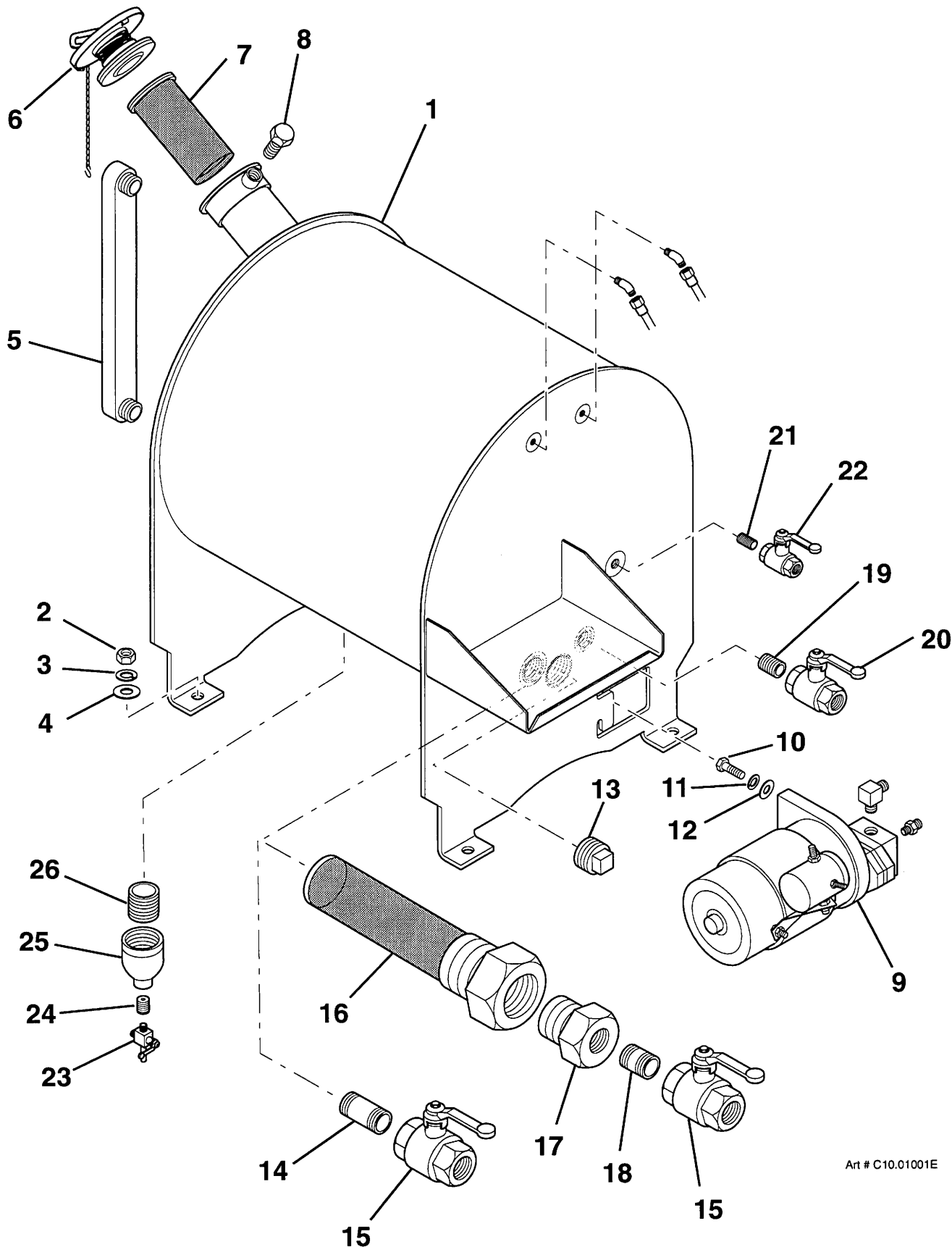
SIMON AERIALS INC.

REV. 08 SEP., 1995

PART
NO.

PLATE
NO. C10.01

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
17	11-085000		BUSHING, REDUCER (3" to 1-1/2") (with optional strainer)	1
	---		BUSHING, REDUCER (3" to 2") (with optional strainer)	1
18	11-071500		CLOSE NIPPLE (1-1/2") (with optional strainer)	1
	11-020017		CLOSE NIPPLE (2") (with optional strainer)	1
19	11-020014		CLOSE NIPPLE, PIPE (1" NPT)	1
20	01-068500		VALVE, BALL (Shutoff valve) (1" NPT)	1
21	11-203200		NIPPLE, PIPE (1/2" x 1-1/8")	1
22	01-002800		VALVE, BALL (Shutoff valve) (1/2" NPT)	1
23	01-015800		DRAIN COCK (Brass, 1/2" NPT) (option)	1
24	11-020019		CLOSE NIPPLE (1/2")	1
25	11-061900		REDUCER, BELL (2" x 1/2")	1
26	11-020017		CLOSE NIPPLE (2")	1
			The following items may be found on a typical installation:	
27	01-226000		FILTER, HIGH PRESSURE (10 micron, #6 SAE ports)	1
28	03-466900		HEATER, TANK (120 Volt AC) (option, not shown)	1
29	06-040500		ADAPTER, "O"-RING TO 37° (10-8 F5OX-S)	1
30	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	1
31	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F5OX-S)	1
32	06-197000		CONNECTOR, HOSE (Beaded) (2" NPT, for 2" hose)	1
33	06-191500		CONNECTOR, HOSE (Beaded) (1-1/2" NPT, 1-1/2" hose)	1
34	06-002000		CONNECTOR, MALE (12-16 FTX-S)	1
35	06-001700		CONNECTOR, MALE (12-8 FTX-S)	1
36	06-001800		CONNECTOR, MALE (12 FTX-S)	1
37	06-079000		CONNECTOR, SWIVEL NUT (6 F65OX-S)	1
38	11-050001		90° ELBOW, FEMALE PIPE (2")	1
39	11-050002		90° ELBOW, FEMALE PIPE (1-1/2")	1
40	11-050023		90° STREET ELBOW (1-1/2")	1
41	06-004100		90° ELBOW, MALE 37° TO NPT (6-8 CTX-S)	1
42	06-003800		90° ELBOW, MALE 37° TO NPT (6 CTX-S)	1
43	06-003500		90° ELBOW, MALE 37° TO NPT (4-4 CTX-S)	1
44	06-045500		90° ELBOW, "O"-RING TO 37° (12-10 C5OX-S)	1
45	06-045100		90° ELBOW, "O"-RING TO 37° (10-8 C5OX-S)	1
46	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	1
47	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C5OX-S)	1
48	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	1
49	06-080500		90° STREET ELBOW (1/2 CD-S)	1
50	11-020017		CLOSE NIPPLE (2")	1
51	11-075300		TEE, FEMALE PIPE THREAD (1-1/2 x 1-1/2 x 3/4)	1
52	06-054800		RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S)	1
53	06-056300		BRANCH TEE, MALE SWIVEL NUT (12 S6X-S)	1
54	06-074900		ADAPTER TEE, PIPE THREAD (1/2 MRO)	1
TITLE HYDRAULIC TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)				
PLATE NO.	C10.01	SIMON AERIALS INC.		PART NO.
REV. 08 SEP., 1995				



Art # C10.01001E

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

SIMON AERIALS INC.

REV. 08 SEP., 1995

PART
NO.

PLATE
NO. C10.01

PARTS LIST

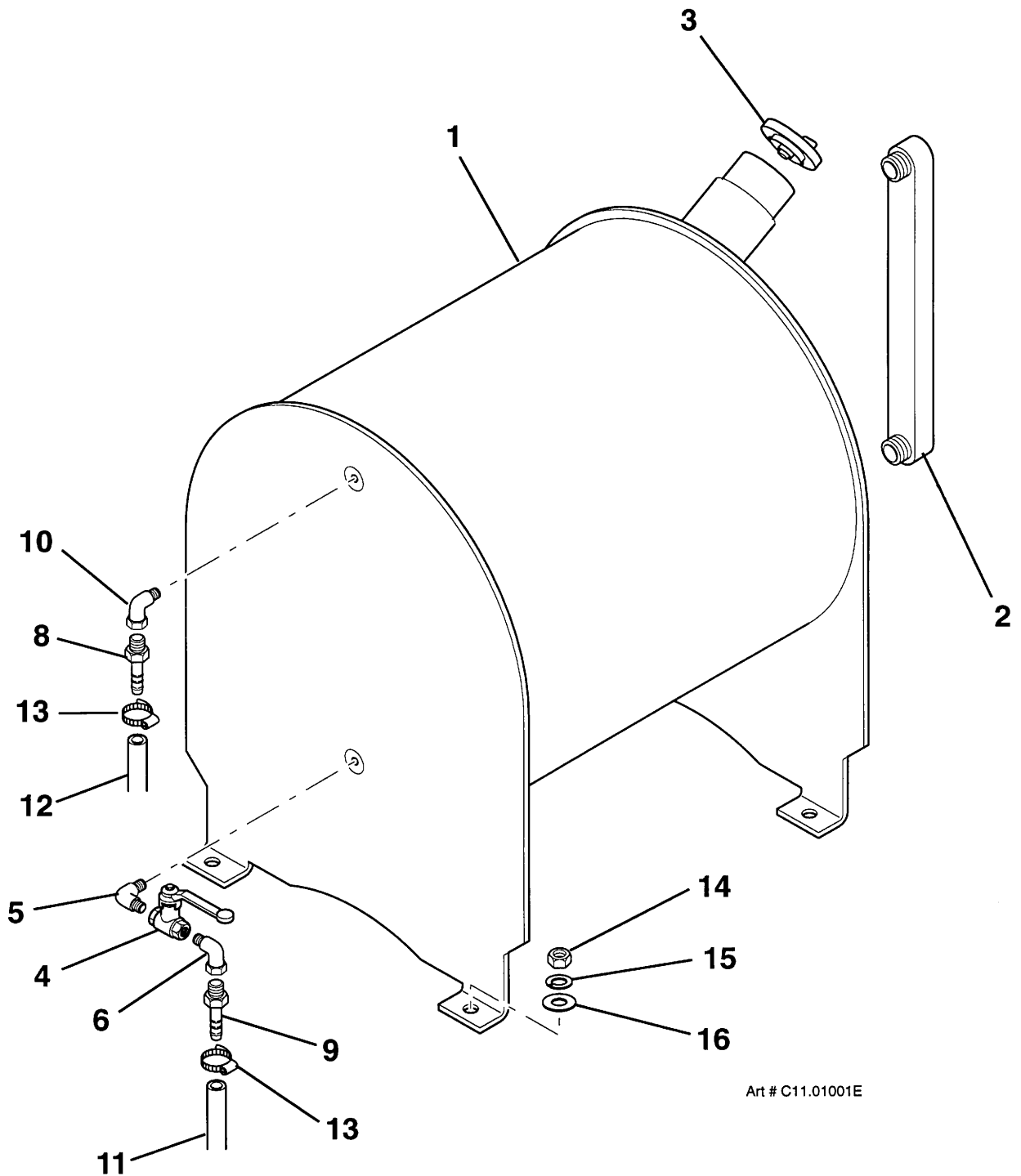
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	3500763 3500781		TANK ASSEMBLY, FUEL Standard tank assembly for Gasoline engines Standard tank assembly for Diesel engines	1
1			TANK WELDMENT, FUEL [Capacity 35.3 gallons (133.6 liters)]	1
2	2003034 2097060 10-033800	D12.05	Standard tank: overall height is 32" (.81 M) Optional tank: overall height is 25-1/4" (.64 M) GAUGE, SIGHT [14" (35.56 cm) long]	1
3	10-001900		CAP, FUEL TANK FILLER (Vented, Anti-surge)	1
4	01-032800		VALVE, SHUTOFF (1/4" NPT)	1
			The following items may be found on a typical installation:	
5	06-082500		ELBOW, PIPE THREAD ADAPTER (1/4 CR-S)	1
6	06-080200		ELBOW, STRAIGHT/ PIPE THREAD (1/4 CD-S)	1
7	06-000400		CONNECTOR, MALE (4-4 FTX-S)	1
8	11-050401		FITTING, HOSE (Brass, barbed, 1/4" I.D. hose, 1/4" male NPT thread)	1
9	11-050403		FITTING, HOSE (Brass, barbed, 5/16" I.D. hose, 1/4" male NPT thread)	1
10	06-080200		90° STREET ELBOW (1/4 CD-S) (for Diesel engine)	1
	11-075400		PLUG (except Diesel engine)	1
	06-079800		SQUARE HEAD (1/4" NPT) (option with 06-079800) HEX SOCKET NPT (1/4 HHP-S) (option with 11-075400)	
			The items listed below are not part of Fuel Tank Assembly:	
11			HOSE, FUEL FEED (5/16" I.D.)	A.R.
12			HOSE, FUEL RETURN (1/4" I.D.)	A.R.
13	09-004600		CLAMP, HOSE (Worm type, 1/4" to 5/8")	2
14	07-040018		NUT, HEX (1/2"-13, Grade 5)	4
15	07-065018		WASHER, LOCK (1/2")	4
16	07-062018		WASHER, FLAT (1/2")	4

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

PLATE NO. C11.01 **SIMON AERIALS INC.**

REV. 29 JUN., 1994

PART NO.



Art # C11.01001E

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

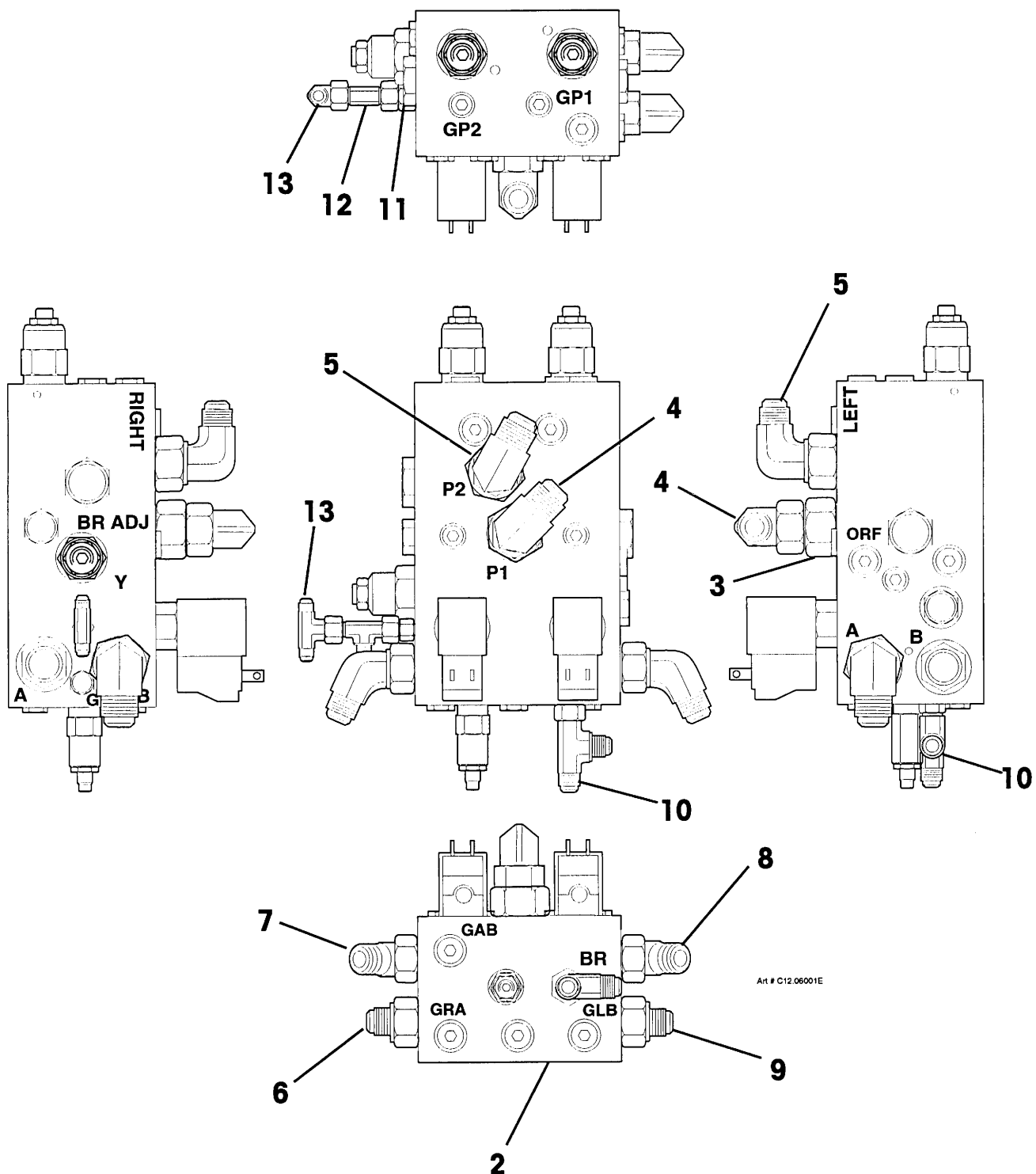
SIMON AERIALS INC.

REV. 29 JUN., 1994

PART
NO.

PLATE
NO. C11.01

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	355 0800		DRIVE VALVE ASSEMBLY (For Two Wheel Drive versions)	1
2	01-238300		VALVE BLOCK ASSEMBLY, DRIVE	1
3	06-041400		Port "P1": ADAPTER, "O"-RING TO 37° (16 F50X-S)	1
4	06-052000		90° ELBOW, SWIVEL NUT (16 C6X-S)	1
5	06-045800		Port "P2": 90° ELBOW, "O"-RING TO 37° (16 C50X-S)	1
6	06-040800		Port "A" (Right side): ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
7	06-047400		Port "B" (Right side): 45° ELBOW, "O"-RING TO 37° (12 V50X-S)	1
8	06-047400		Port "A" (Left side): 45° ELBOW, "O"-RING TO 37° (12 V50X-S)	1
9	06-040800		Port "B" (Left side): ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
10	06-048500		Port "BR" (Brake): RUN TEE, MALE "O"-RING TO 37° (6 R50X-S)	1
11	06-039800		Port "Y" (Drain): ADAPTER, "O"-RING TO 37° (6 F50X-S)	1
12	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	1
13	06-056000		BRANCH TEE, 37° FEMALE SWIVEL NUT (6 S6X-S)	1
14	07-003045		The following items are not included with the Drive Valve Assembly: CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
15	07-062016		WASHER, FLAT (3/8")	4
16	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
TITLE			DRIVE VALVE ASSEMBLY (TWO WHEEL DRIVE), MPH 60	
SECTION	C12.	PLATE NO.	06	PAGE 01
REV.	-	DATED	28 JAN., 1997	PART NO. 355 0800
		 Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172		



Art # C12.06001E



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TITLE

DRIVE VALVE ASSEMBLY (TWO WHEEL DRIVE), MPH 60

PART NO.

355 0800

REV. -

DATED
28 JAN., 1997

SECTION

C12.

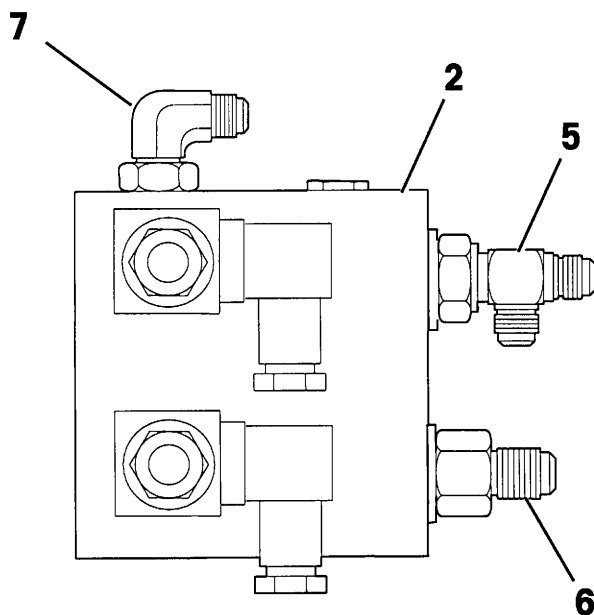
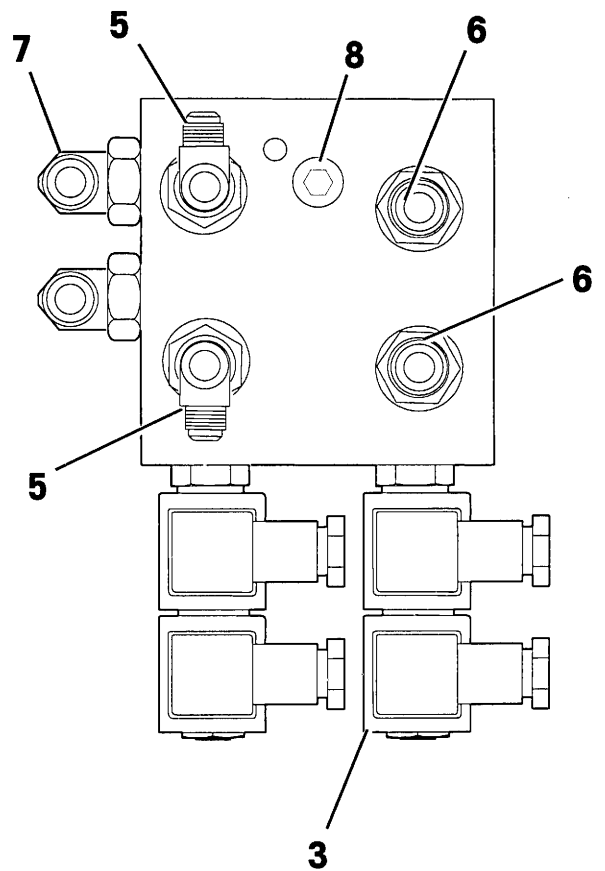
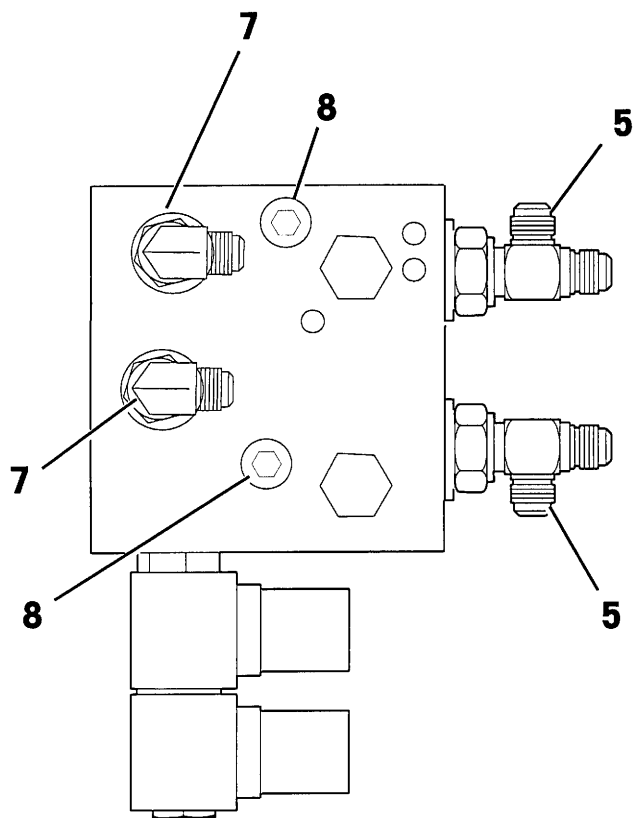
PLATE NO.

06

PAGE

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An #C12.07001E

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TITLE

PLATFORM LEVEL/ ROTATE VALVE ASSEMBLY

PART NO.

355 1320

REV. -

DATED
24 APR., 1997

SECTION

C12.

PLATE NO.

07

PAGE

01

PARTS LIST

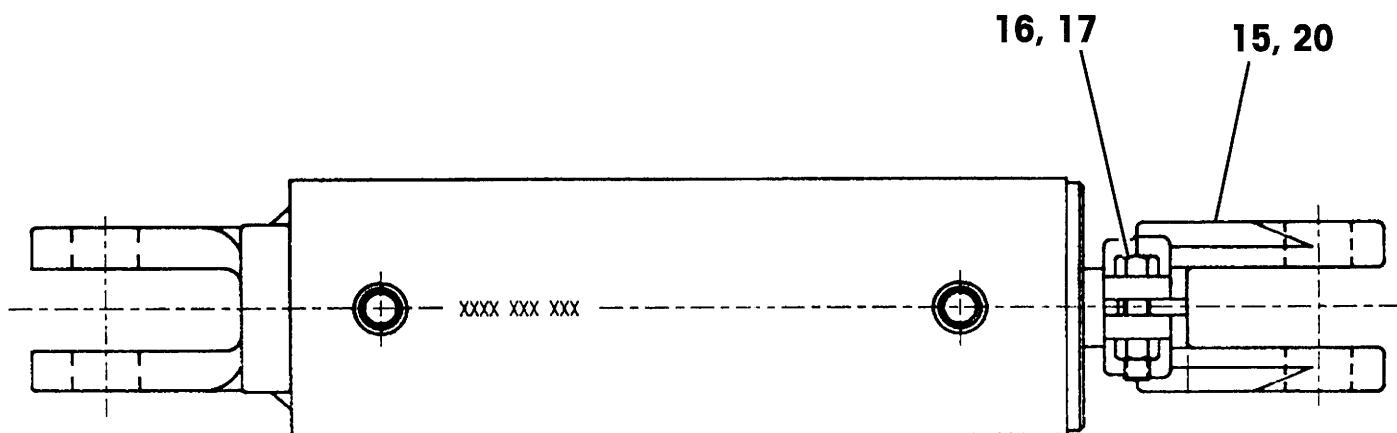
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			STEER CYLINDER ASSEMBLY (7-1/2" [190 mm] stroke, 3-1/2" [89 mm] bore, 1-1/4" [31.8 mm] rod, [2] 9/16"-18 UNF "O"-Ring ports).	
	04-035300		Standard cylinder, for all models except as listed below.	1
	232 8190		Modified cylinder (drilled for "L" shaped keeper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

TITLE

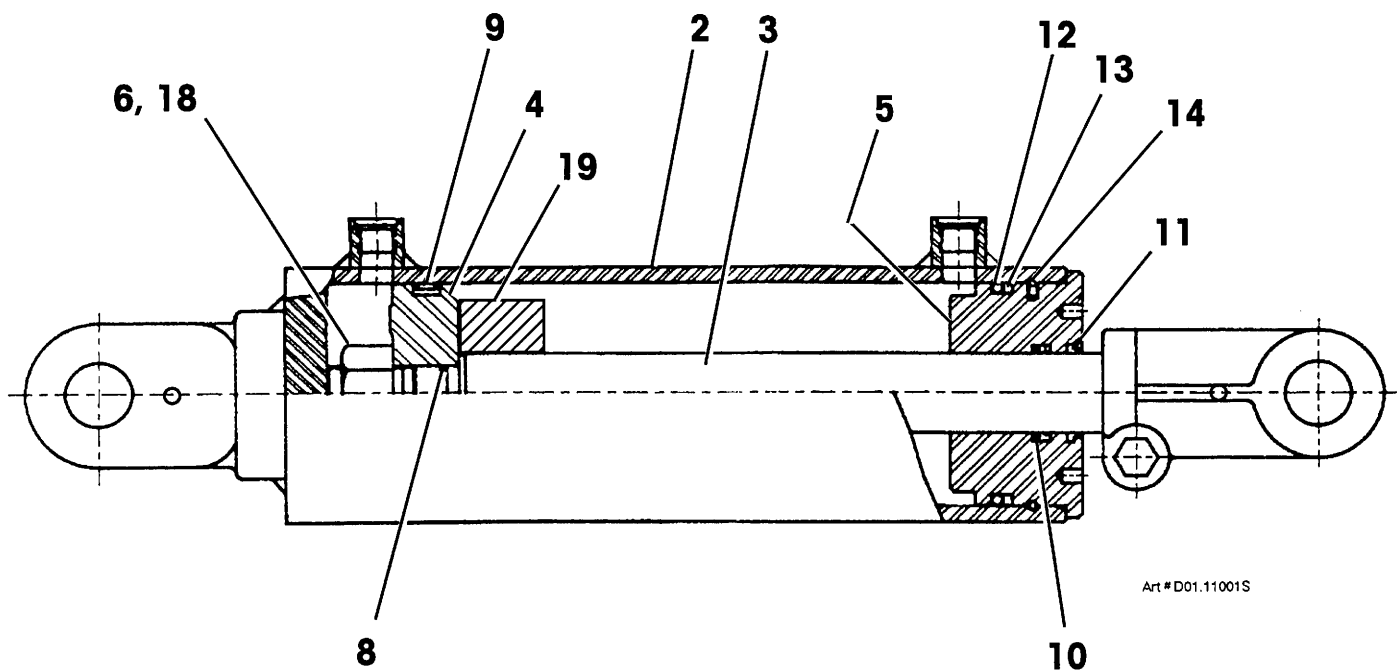
STEER CYLINDER

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10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
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SECTION **D01.** PLATE NO. **11** PAGE **01** REV. **-** DATED **15 JUN, 1994** PART NO.



Art # D01.11002S



Art # D01.11001S

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TITLE

STEER CYLINDER

PART NO.

REV. -

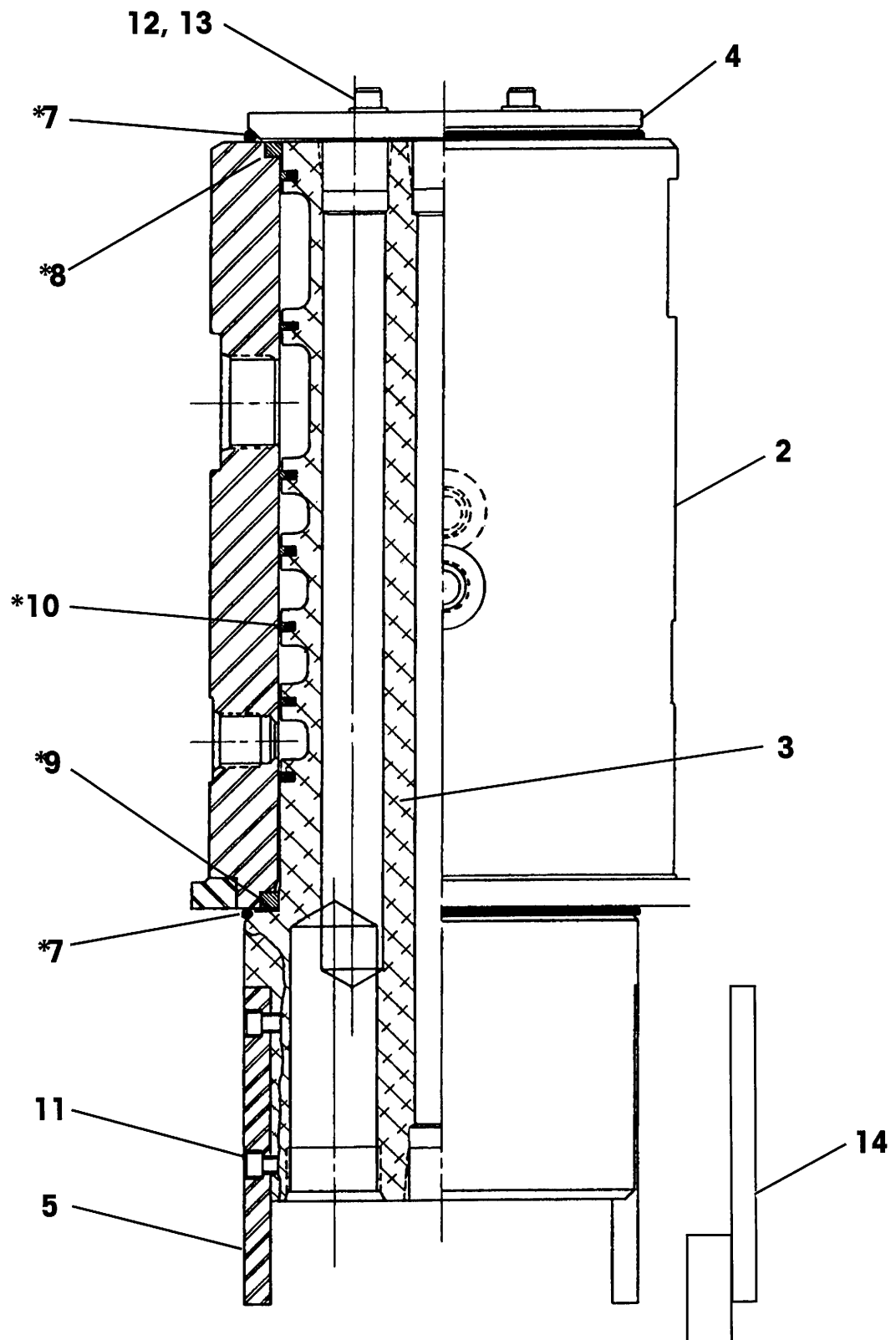
DATED
15 JUN, 1994

SECTION D01.

PLATE NO. 11

PAGE 01

PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
1	04-008700 235 1600		HYDRAULIC SWIVEL For all versions except as listed below For Model RP 86 or T-80	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 Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172		



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

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TITLE

HYDRAULIC SWIVEL

PART
NO.

REV.
-

DATED
22 APR., 1996

SECTION
D02.

PLATE NO. 01

PAGE 01

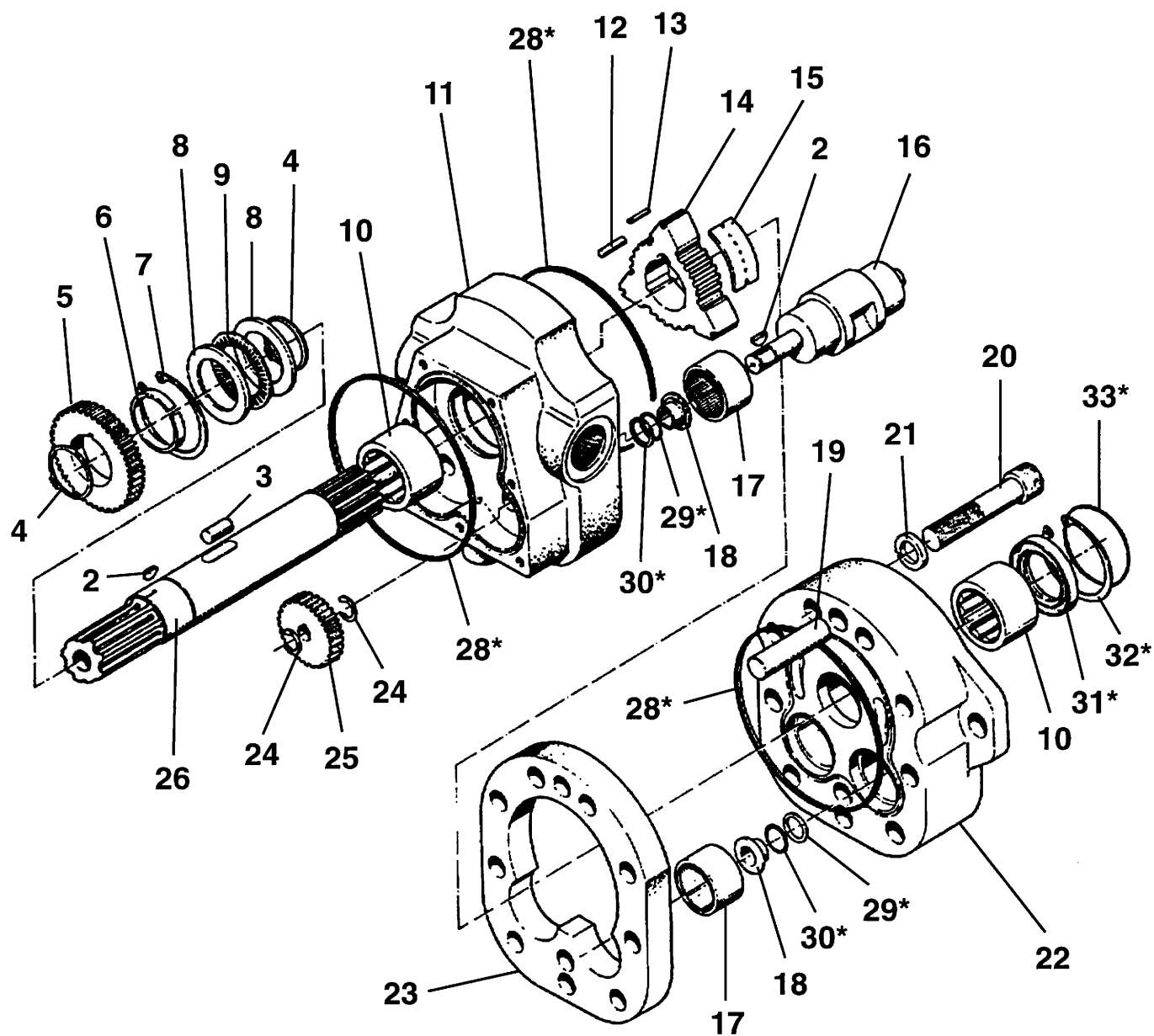
PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			MOTOR ASSEMBLY (See plate 2 of 2 for brake)	1
2	01-000430		KEY, WOODRUFF	3
3			PIN, DRIVE	1
4	01-000443		RING, RETAINING	2
5	01-000439		GEAR, DRIVE	1
6	01-000431		WASHER, SPACER	1
7	01-000444		RING, RETAINING	1
8	01-000423		RACE, BEARING	2
9	01-000422		BEARING, THRUST	1
10	01-000436		BEARING, NEEDLE	2
11			CAP, END (Rear)	1
12			ROLLER, TIP SEAL [3" (76.2 mm) long]	3
13			ROLLER, BODY SEAL [3" (76.2 mm) long]	18
14			ROTOR [3" (76.2 mm) wide]	1
15			PLATE, SEAL [3" (76.2 mm) wide]	3
16			VALVE, ABUTMENT	2
17	01-000438		BEARING, NEEDLE	4
18	01-000425		BEARING, STEP	4
19			PIN, DOWEL	2
20			CAP SCREW, SOCKET HEAD	9
21			WASHER, HELICAL LOCK	9
22	01-000440		CAP, END (Front) (SAE "B")	1
23			HOUSING, DISPLACEMENT	1
24	01-000442		RING, RETAINING	4
25	01-000420		GEAR, PINION	2
26			SHAFT, MOTOR (Spline both ends, for use with brake)	1
27	01-000401		SEAL KIT, MOTOR	1
28			Note: Items included in seal kit marked by asterisk (*)	
29			SEAL, OIL	3
30	01-000428		"O"-RING	4
31			RING, BACK UP	4
32	01-000445		SEAL, SHAFT	1
33			RING, RETAINING	1
			"O"-RING	1
TITLE WHEEL MOTOR/ BRAKE (MOTOR, 5 IN. ³ , PLATE 1 OF 2)				
PLATE NO. D03.09		SIMON AERIALS INC.		PART NO. 01-064200

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

PLATE NO.	D03.09	SIMON AERIALS INC.
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REV. 14 JUN., 1994

PART NO. 01-064200



TITLE

WHEEL MOTOR/ BRAKE (MOTOR, 5 IN.³, PLATE 1 OF 2)

SIMON AERIALS INC.

REV. 14 JUN., 1994

PART
NO.

01-064200

PLATE
NO.

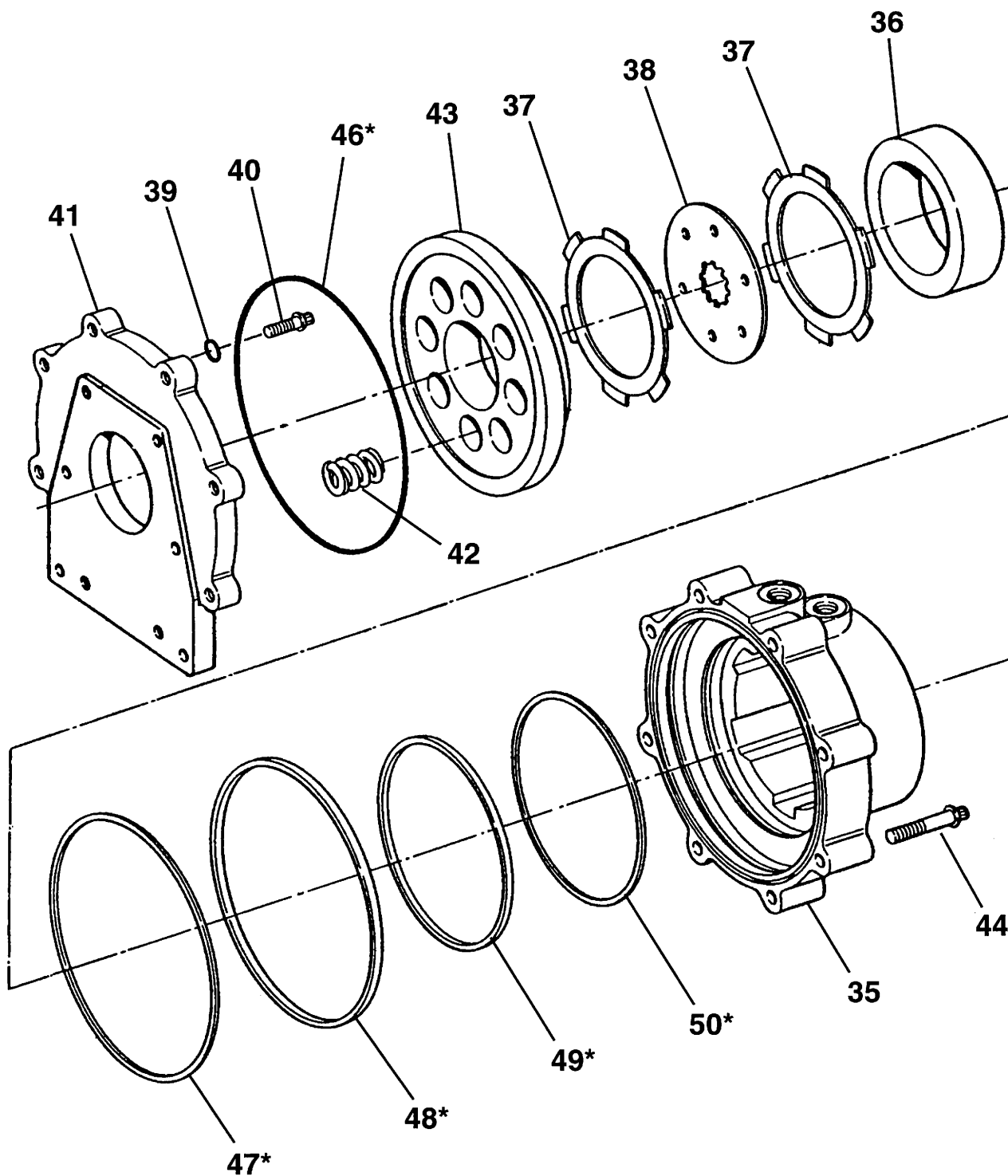
D03.09

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D03.09

REV. 14 JUN., 1994

01-064200



TITLE

WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)

SIMON AERIALS INC.

REV. 14 JUN., 1994

PART
NO.

01-064200

PLATE
NO.

D03.09

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TITLE

SWING MOTOR

SECTION **D06.**

PLATE NO. 12

PAGE 01

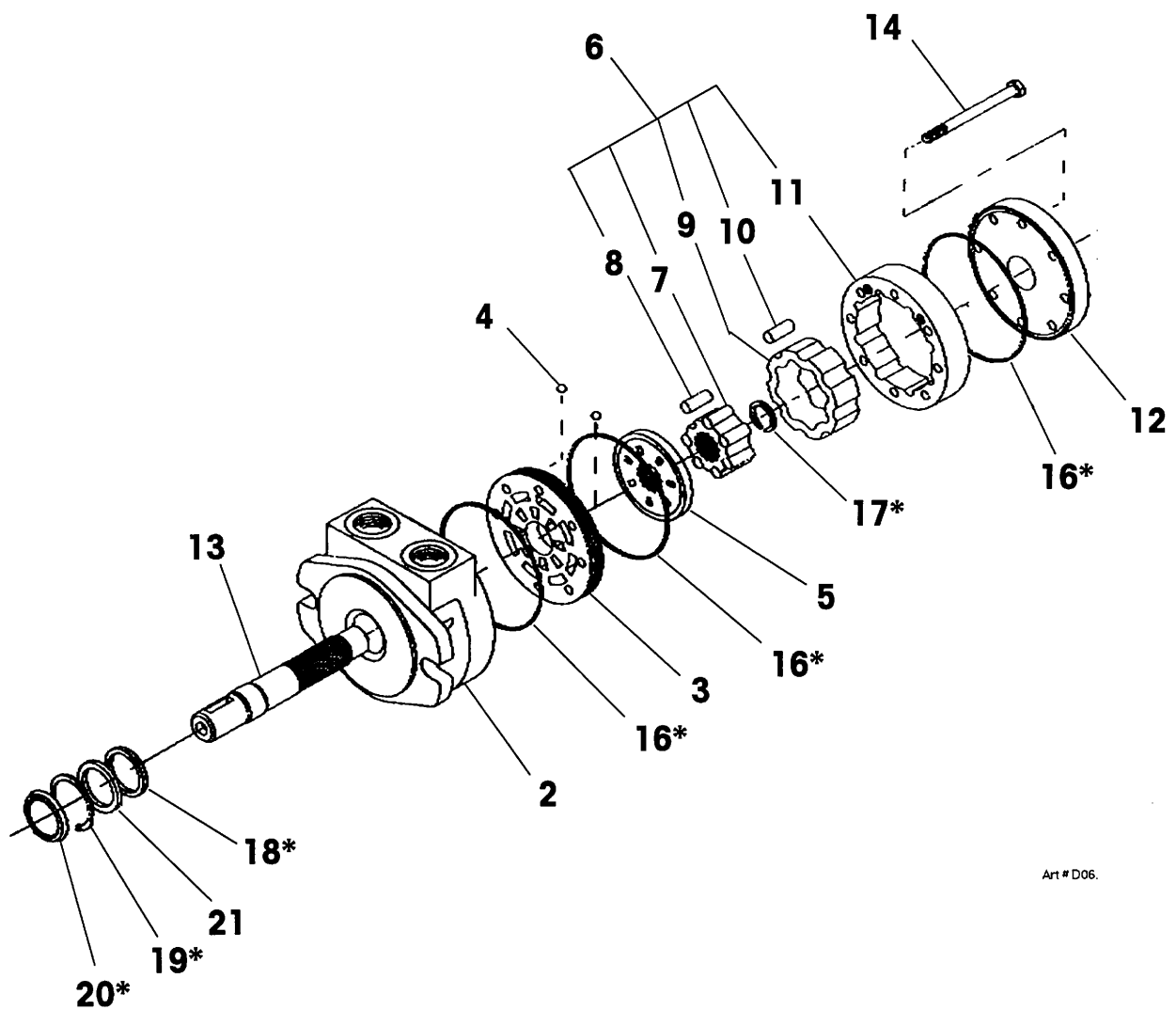
REV. _____

DATED
19 JUL., 1994

PART NO. 01-215 500



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Art # D06.



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TITLE

SWING MOTOR

PART NO. 01-215 500

REV. -

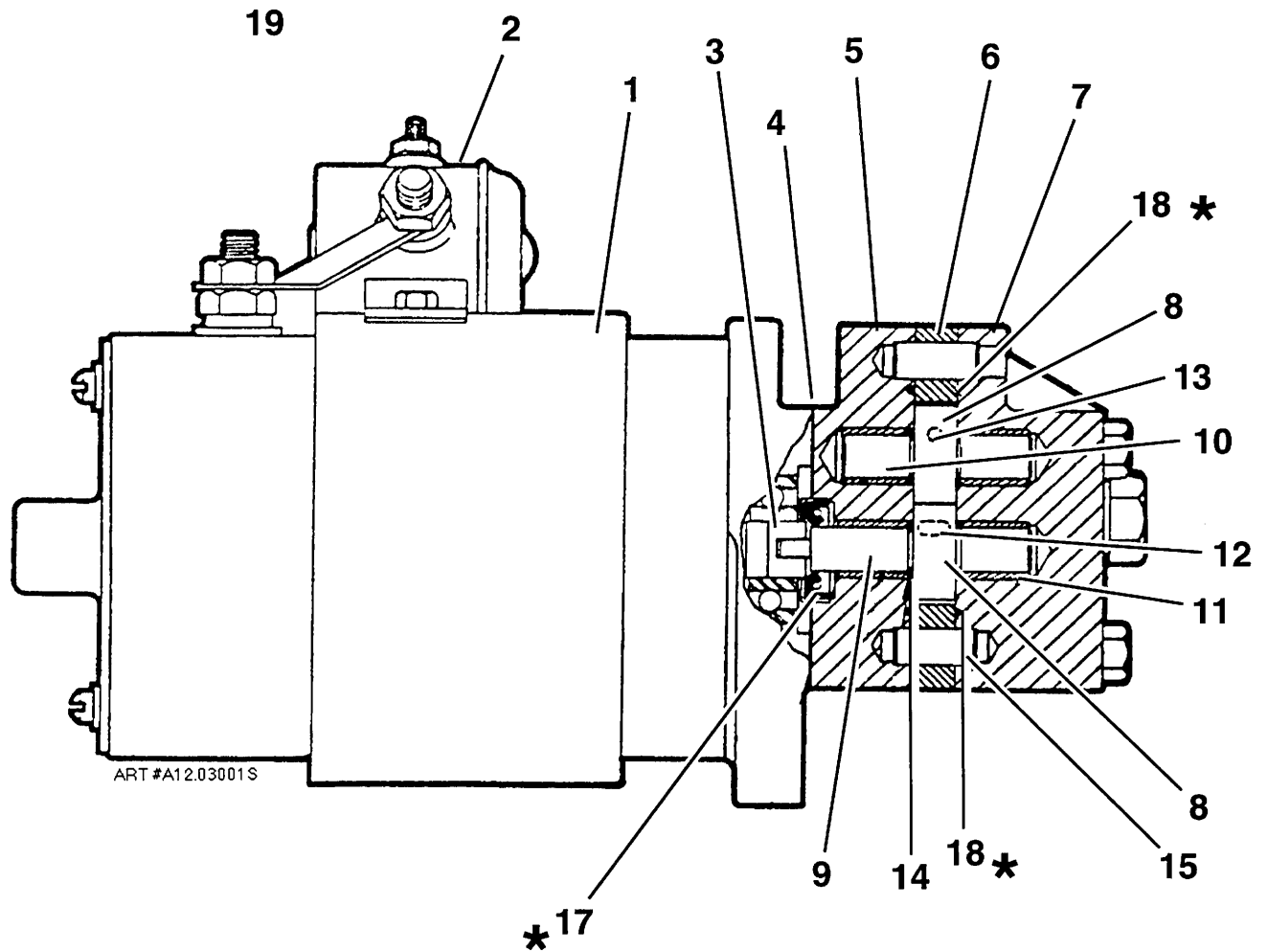
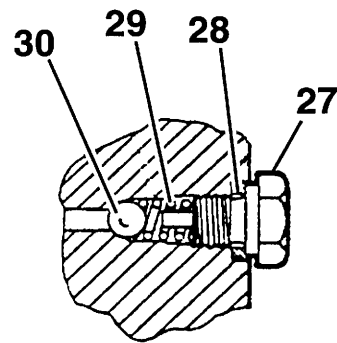
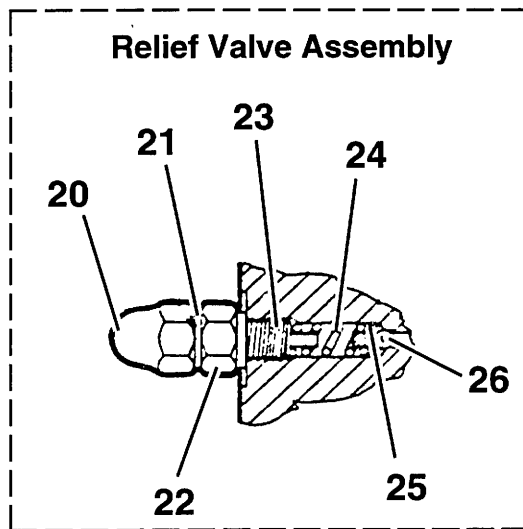
DATED 19 JUL., 1994

SECTION D06.

PLATE NO. 12

PAGE 01

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



TITLE

EMERGENCY PUMP

SIMON AERIALS INC.

REV. 08 OCT., 1993

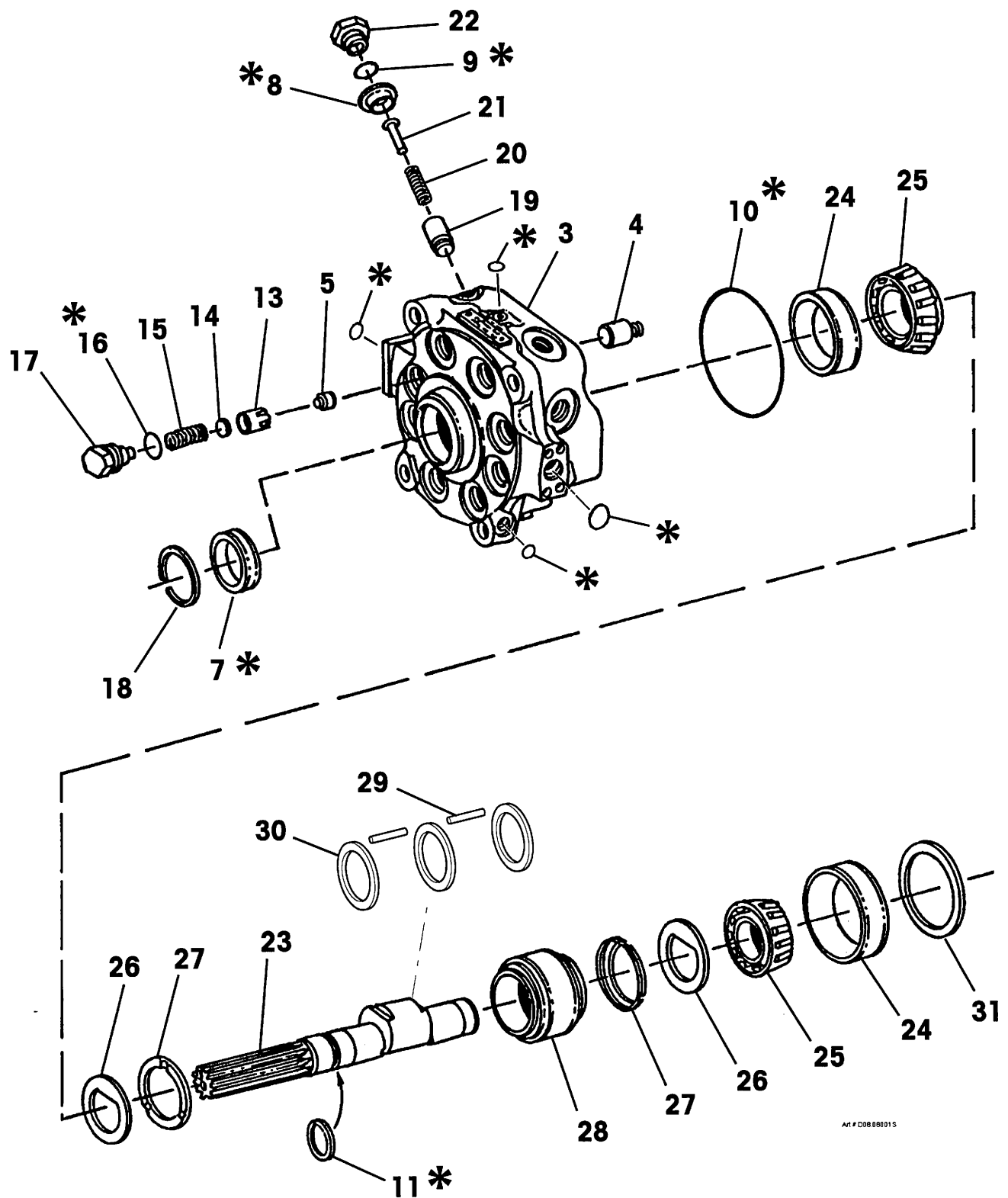
PART
NO.

01-027200

PLATE
NO.

D07.04

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PUMP ASSEMBLY, HYDRAULIC Note: These are "Type 2" pumps, with unitized control valve design.	1
	01-206900		HPR 40 (marked "*ROPV 312 XXXXX*" and "24 71 R11531")	
	01-019500		HPR 50 (marked "*ROPV 322 XXXXX*" and "24 72 R11531")	
	01-018700		HPR 65 (marked "*ROPV 332 XXXXX*" and "24 73 R11531")	
2			HOUSING ASSEMBLY, PUMP	1
3			HOUSING, PUMP	1
4	01-019519		VALVE, INLET	8
5	01-019518		SEAT, DISCHARGE VALVE	8
6	01-018707		SEAL KIT (components indicated by asterisks, page 1 and 2)	1
7	01-002605	*	SEAL, OIL	1
8		*	SHIELD (plastic)	8
9	01-019512	*	"O"-RING	8
10	01-018704	*	"O"-RING, CENTER HUB	1
11	01-018705	*	RING, SEALING	1
12			VALVE, DISCHARGE	8
13	01-019517		GUIDE, VALVE	1
14	01-018715		DISC, DISCHARGE VALVE	1
15	01-019516		SPRING	1
16	01-019515	*	"O"-RING	1
17			PLUG, DISCHARGE VALVE	1
18	01-019503		RING, SNAP	1
19	01-019514		PISTON	8
20	01-019513		SPRING, PISTON	8
21	01-019520		PIN, COOLING	8
22			PLUG, PISTON	8
23			SHAFT, PUMP	1
	01-019506		for Model HPR 40	
	01-018708		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)	A.R.
			SHIM (0.25 mm)	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 88015

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TITLE

HYDRAULIC PUMP ASSEMBLY

PART NO.

REV.

A

DATED

08 OCT., 1996

SECTION

D08.

PLATE NO.

13

PAGE

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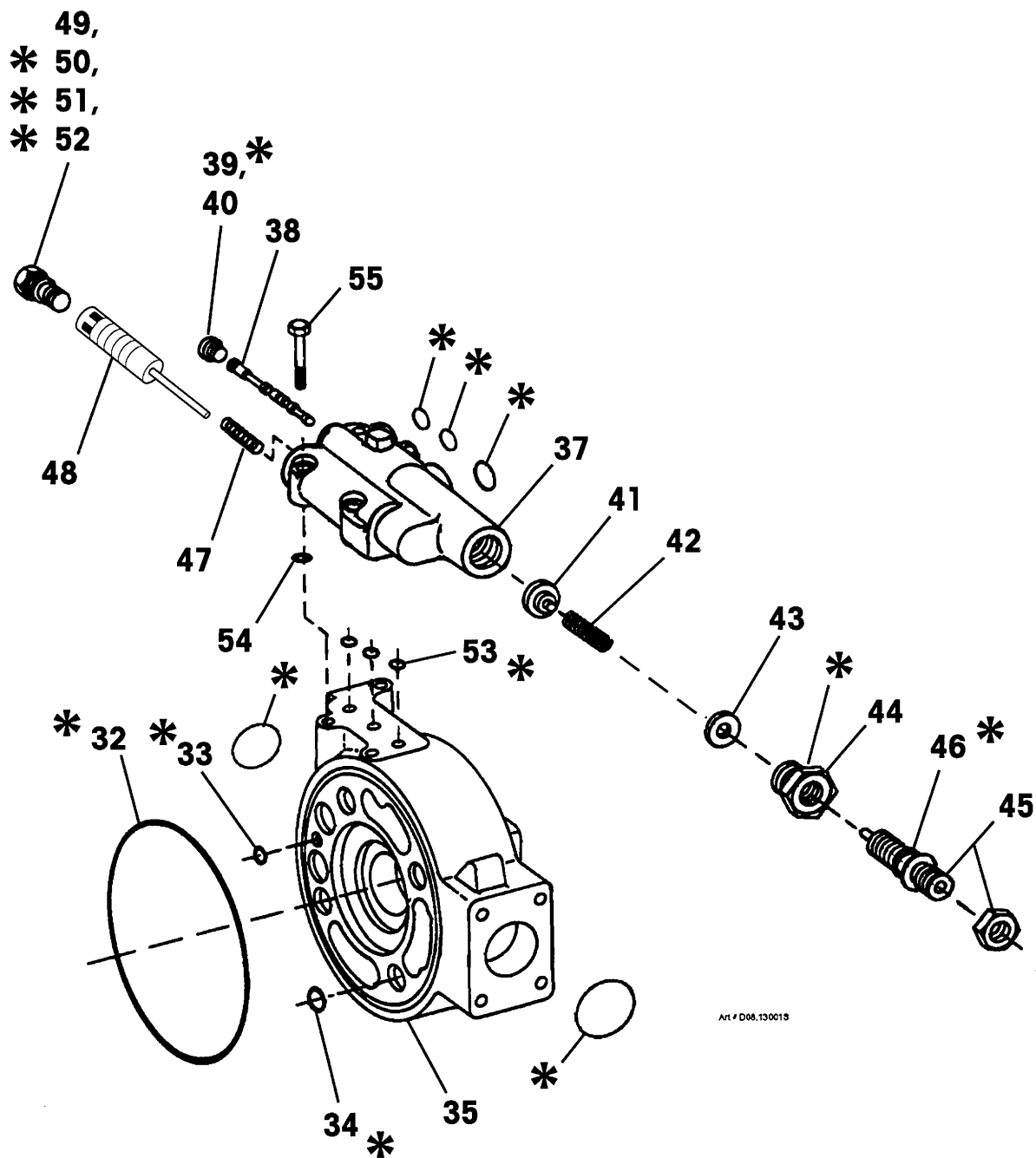
PARTS LIST

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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Art # D08.13001S

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Fax 414-355-3172

TITLE

HYDRAULIC PUMP ASSEMBLY (UNITIZED CONTROL VALVE)

PART
NO.

REV.

A

DATED

08 OCT., 1996

SECTION

D08.

PLATE NO.

13

PAGE

02

PARTS LIST

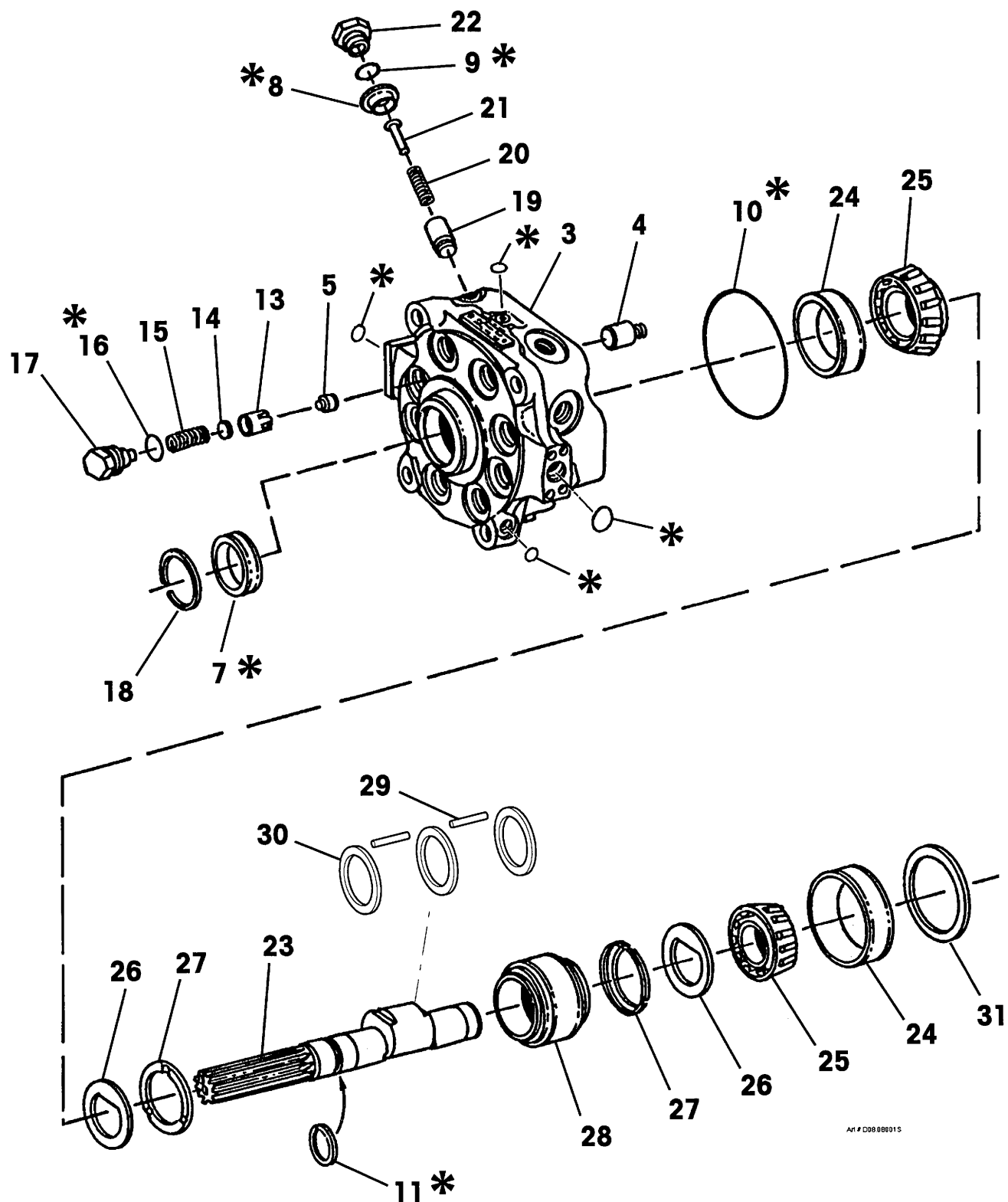
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items are not included with the Hydraulic Pump:	
			Suction Fittings:	
56	06-214400		FLANGE, SUCTION FITTING (2" SAE flange) (32 CFHC) (includes two halves and mounting hardware)	1
57	06-216100 06-196900		FITTING, SUCTION 90°, 2" stem to 2" hose (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.

Simon Aerials Inc.
10600 West Brown Deer Road
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Alt # D08 886015

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TITLE

HYDRAULIC PUMP ASSEMBLY

PART NO.

REV.

A

DATED

08 OCT., 1996

SECTION

D08.

PLATE NO.

13

PAGE

03

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, PISTON ROD	1
6	04-032906		BUSHING	4
7	04-035701		SEAL KIT (not for use with water-glycol hydraulic fluid) Note: Items in kit identified by asterisk (*).	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			RING, ROD WEAR	4
11			"O"-RING	1
12			RING, BACKUP	1
13			"O"-RING	1
14			RING, BACKUP	1
15			"O"-RING	1
16			SEAL, PISTON	1
17			RING, PISTON WEAR	3
18			VALVE BLOCK	1
19			"O"-RING	2
20			CAP SCREW, HEX HEAD (3/8"-16 x 3")	4
21			WASHER, LOCK	4
			The following item is not part of the cylinder assembly:	
22	01-222000		VALVE, COUNTERBALANCE (Holding valve) 10:1 (Factory set at 4900 PSI [338 Bar] [344.5 Kg/ cm ²]) (For units built after approximately 10 December 1992. Supersedes 04-021402 as replacement on earlier units.)	1
	04-021402		25:1 Ratio (Originally supplied on units built through about 10 December 1992. Has been superseded by 01-222000.)	

TITLE LIFT CYLINDER, 48.0" (1.22 M) STROKE

PLATE NO. D09.38 **SIMON AERIALS INC.**

REV. 15 FEB., 1995

PART NO. 04-035700

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



ef.)

1, 2, 3, 4, 5, 6, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18, 19, 20, 21

Art # D09.38001E

Art # D09.38001E

LIFT CYLINDER, 48.0" (1.22 M) STROKE

REV. 15 FEB., 1995

04-035700

PLATE NO. D09.38

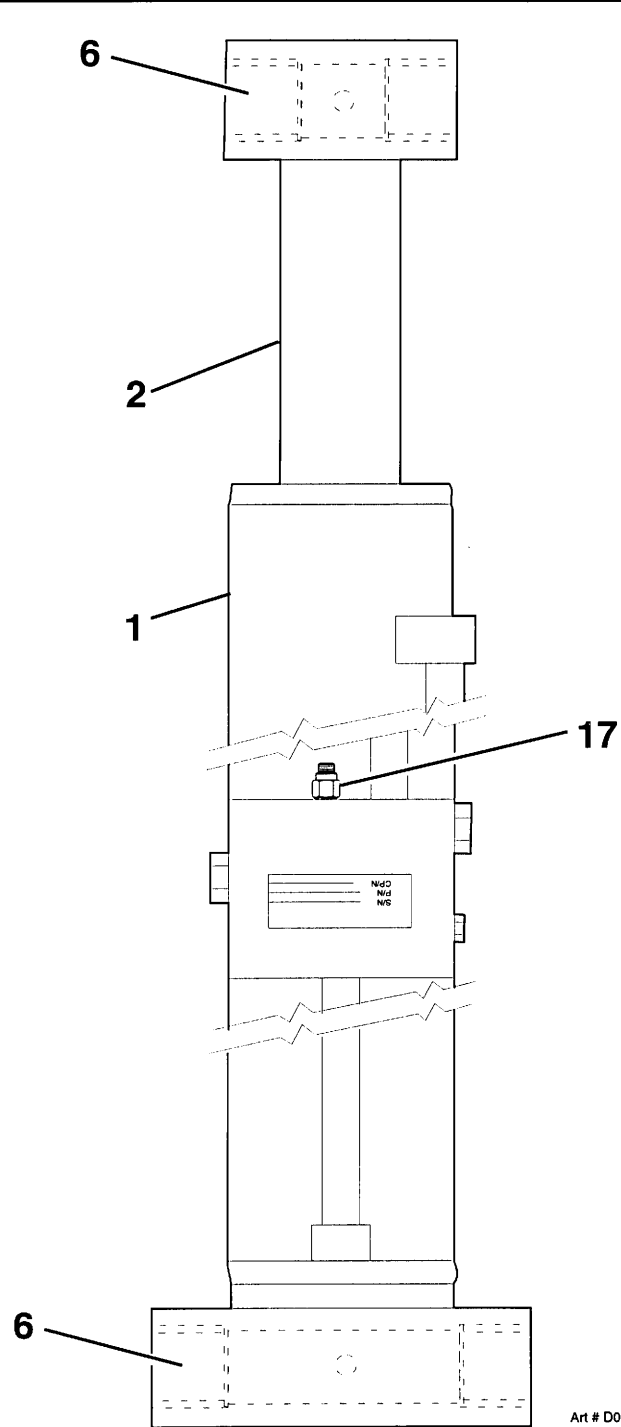
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TITLE LIFT CYLINDER, 48.5" (1.23 M) STROKE

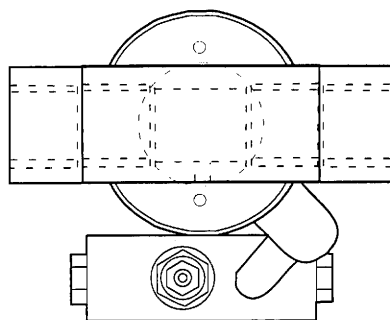
PLATE NO.	D09.41	SIMON AERIALS INC.
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REV. 15 FEB., 1995

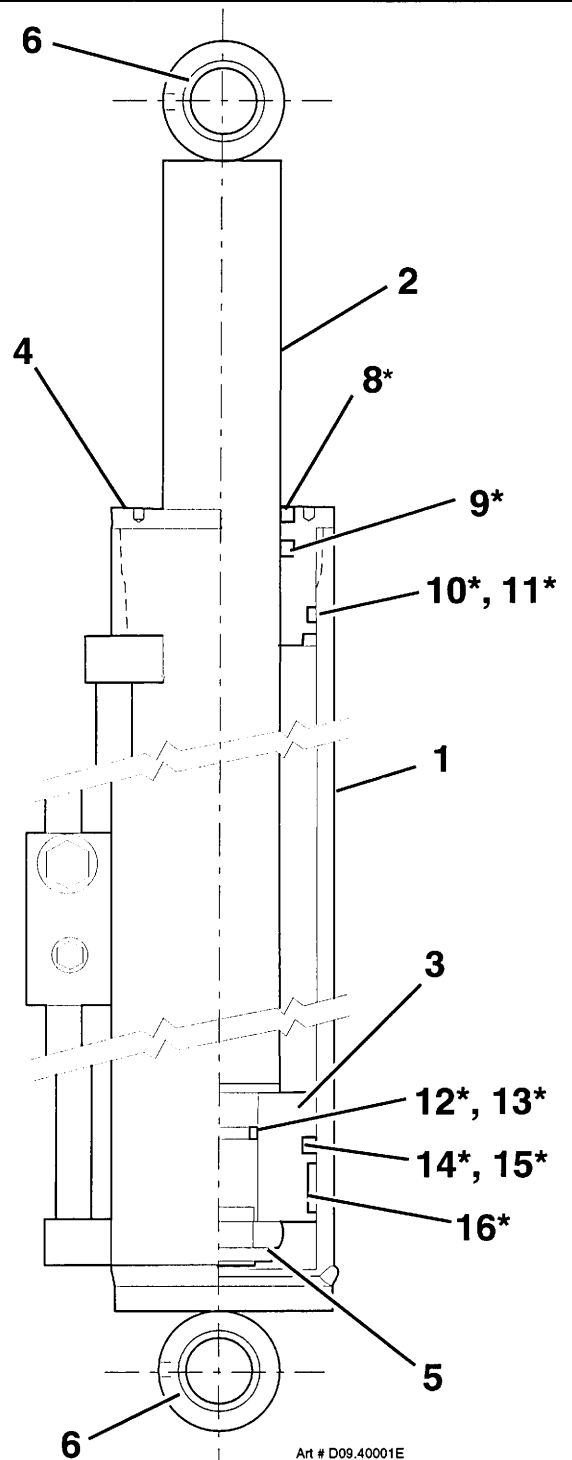
PART NO. 04-036000



Art # D09.400002



Art # D09.40003E



Art # D09.40001E

Note:

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

TITLE

LIFT CYLINDER, 48.5" (1.23 M) STROKE

SIMON AERIALS INC.

REV. 15 FEB., 1995

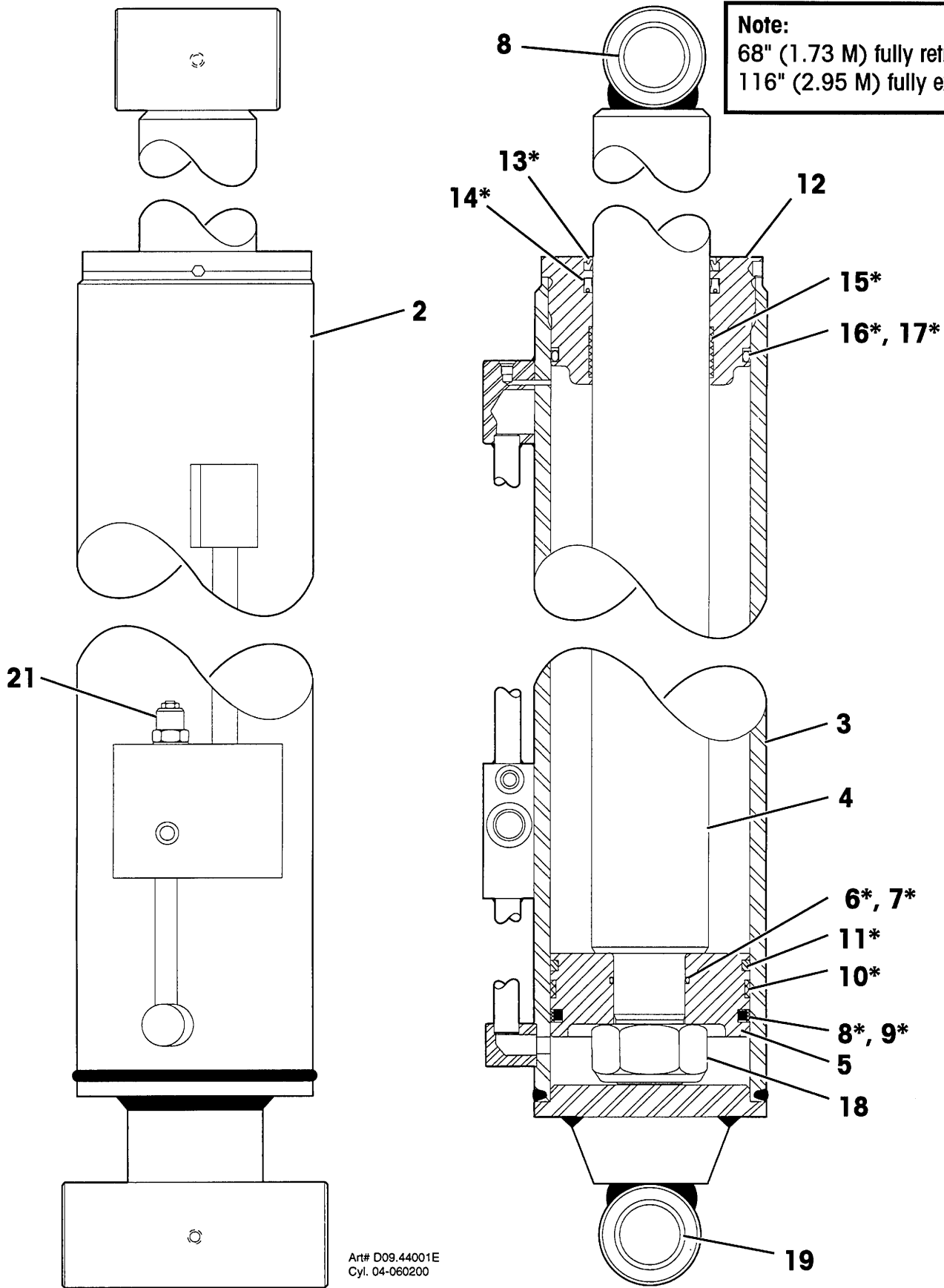
PART
NO.

04-036000

PLATE
NO.

D09.41

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	04-060200		LIFT CYLINDER ASSEMBLY	1
2			LIFT CYLINDER	1
3			CASE, CYLINDER (Barrel Assembly)	1
4			ROD , CYLINDER	1
5			PISTON ASSEMBLY	1
6			"O"-RING	1
7	*		RING, BACKUP	1
8	*		"O"-RING	1
9	*		SEAL, PISTON	1
10	*		RING, PISTON WEAR	1
11	*		RING, PISTON WEAR	1
12			GLAND, HEAD (Rod Bearing Assembly)	1
13	*		WIPER, ROD	1
14	*		SEAL, ROD	1
15	*		RING, ROD WEAR	1
16	*		"O"-RING	1
17	*		RING, BACKUP	1
18			NUT, PISTON ROD	1
19			BUSHING	4
The following items are not part of the cylinder assembly:				
20	04-060201		SEAL KIT (not for use with water-glycol hydraulic fluid) Note: Items in kit identified by asterisk (*).	1
21	04-060202		VALVE, COUNTERBALANCE (Holding valve) (marked "CBCH-LJN") (factory set at 5000 psi [345 bar] [351.6 kg/ cm ²])	1
TITLE			LIFT CYLINDER, 48.0" (1.22 M) STROKE	
SECTION	D09.	PLATE NO. 44	PAGE 01	REV. -
			DATED 30 APR., 1997	PART NO. 04-060200
			Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	



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

Art# D09.44001E
Cyl. 04-060200

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TITLE

LIFT CYLINDER, 48.0" (1.22 M) STROKE

PART NO. **04-060200**

REV. - DATED 30 APR., 1997

SECTION **D09.**

PLATE NO. **44**

PAGE **01**

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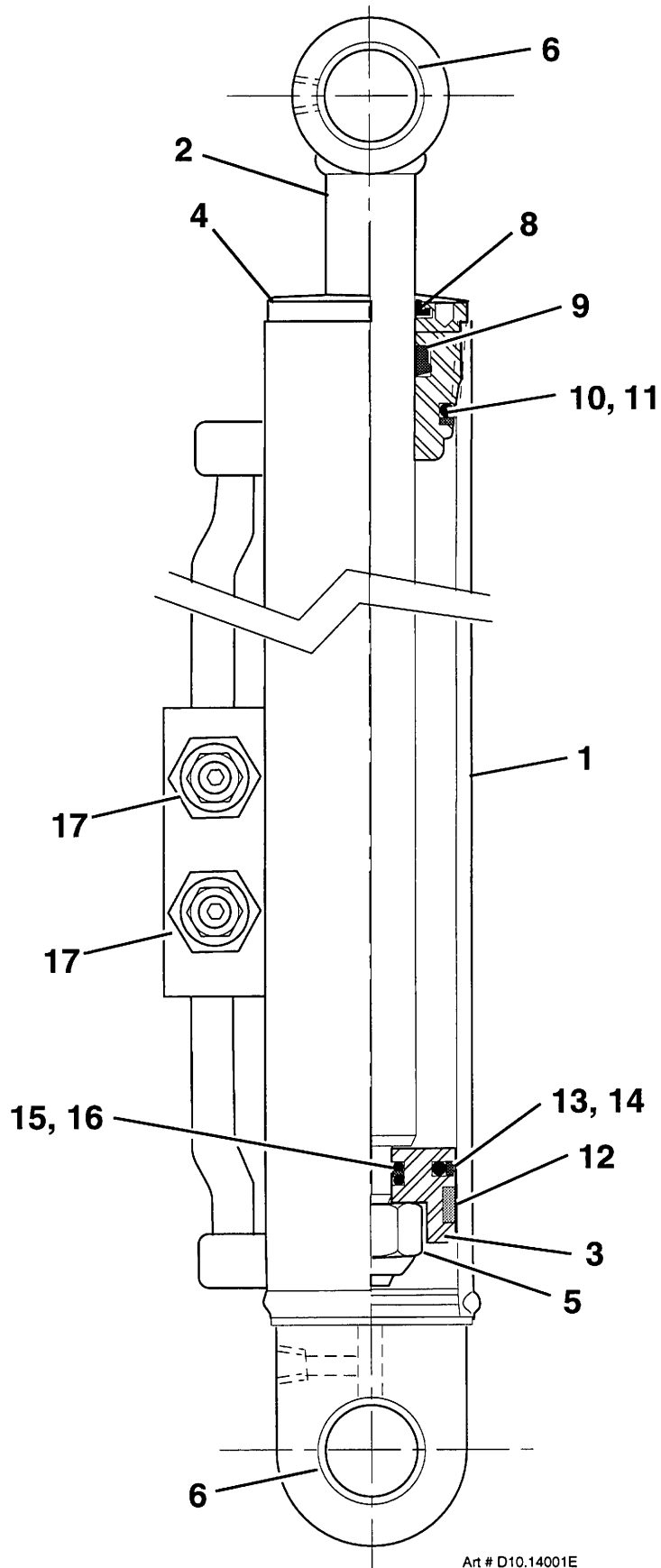
TITLE MASTER LEVEL CYLINDER, 17-3/4" (.45 M) STROKE

PLATE NO. D10.14

SIMON AERIALS INC.

NEW 27 APR., 1994

PART NO. 04-035500



Art # D10.14001E

TITLE

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

SIMON AERIALS INC.

NEW 27 APR., 1994

PART
NO.

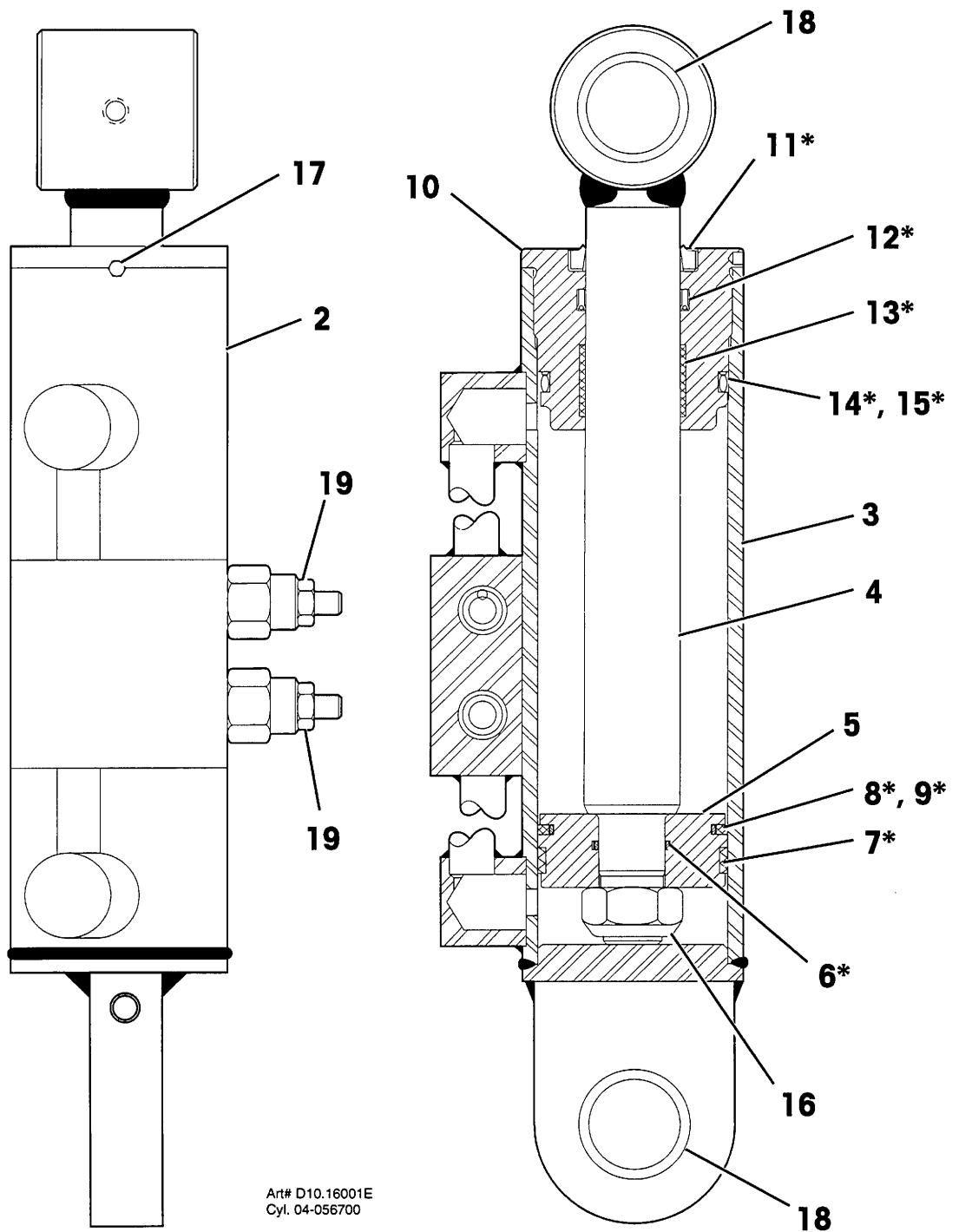
04-035500

PLATE
NO.

D10.14

PARTS LIST

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



Art# D10.16001E
Cyl. 04-056700

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TITLE

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

PART NO. 04-056700

REV. - DATED 30 APR., 1997

SECTION D10.

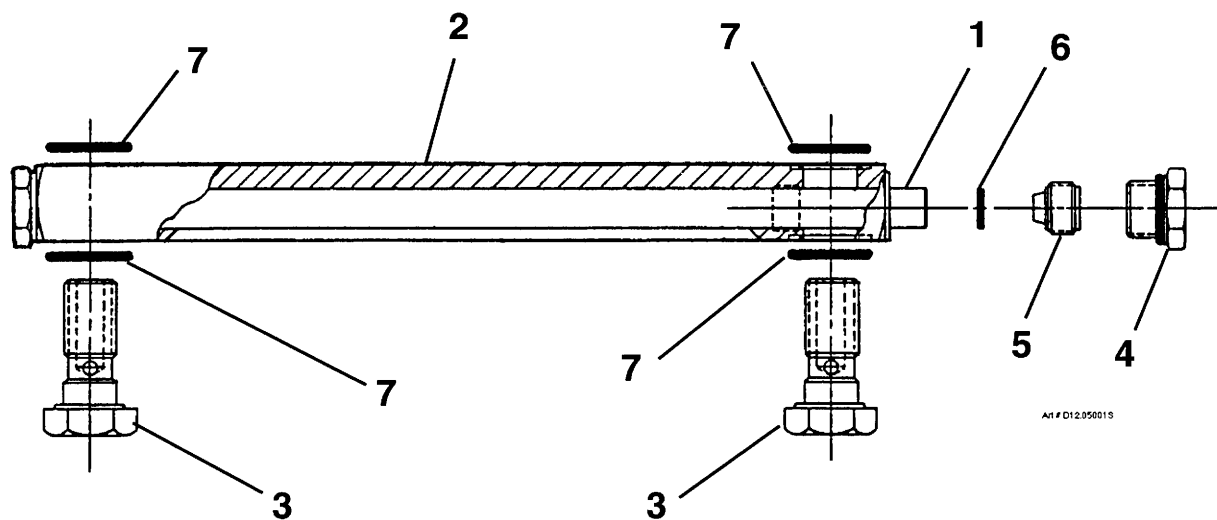
PLATE NO. 16

PAGE 01

[illegible]

SIGHT GAUGE, 14"

PART NO. 10-033800



Alt # D12.050019

TITLE

SIGHT GAUGE, 14"

SIMON AERIALS INC.

REV. 05/02/91

PART NO. 10-033800

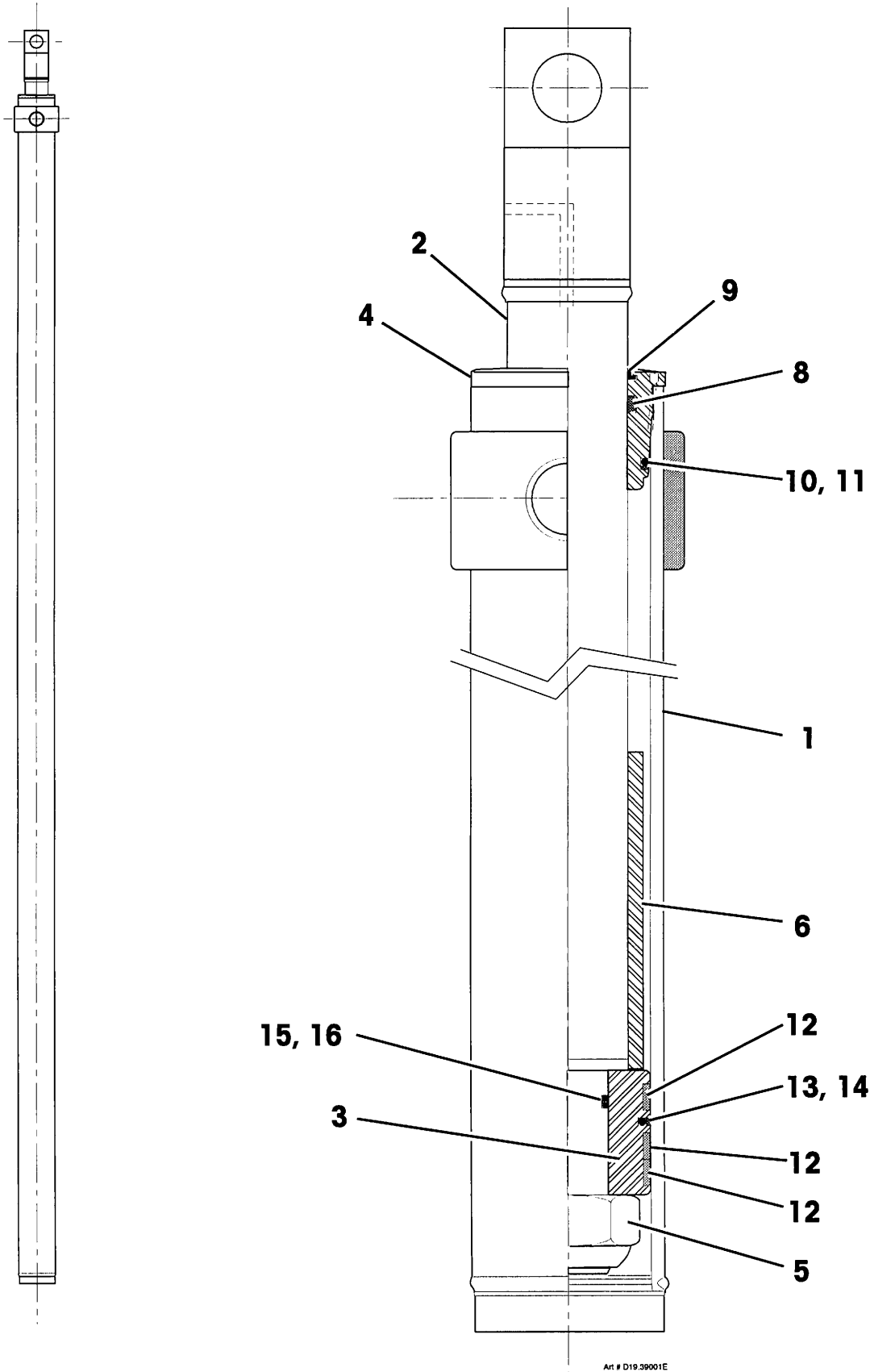
PLATE NO. D12.05

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			Cylinder can be identified by Part Number "04036100SH" on nameplate located on cylinder case.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, LOCK	1
6			SPACER	1
7	04-036101		SEAL KIT	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			"O"-RING	1
11			RING, BACKUP	1
12			RING, PISTON WEAR	3
13			"O"-RING	1
14			SEAL, PISTON	1
15			"O"-RING	1
16			WASHER, BACKUP	1

TITLE TELESCOPE CYLINDER, 180" (4.57 M) STROKE					
SECTION	D19.	PLATE NO. 39	PAGE 01	REV. A	DATED 27 DEC., 1996
PART NO.		04-036100			

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TITLE

TELESCOPE CYLINDER, 180" (4.57 M) STROKE

PART
NO.

04-036100

REV.
A

DATED
27 DEC., 1996

SECTION

D19.

PLATE NO. 39

PAGE 01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04057400" stamped on cylinder case.	
1	04-057400		TELESCOPE CYLINDER ASSEMBLY	1
2			TELESCOPE CYLINDER	1
3			CASE, CYLINDER (Barrel Assembly)	1
4			ROD, CYLINDER	1
5			SPACER (Stroke Limiter)	1
6			PISTON ASSEMBLY	1
7	*		"O"-RING	1
8	*		RING, BACKUP	2
9	*		RING, PISTON WEAR	2
10	*		SEAL, PISTON	1
11	*		"O"-RING	1
12	*		WASHER, BACKUP	2
13			SET SCREW	1
14			PLUG (Nylon)	1
15			TRANSFER TUBE ASSEMBLY	1
16	*		"O"-RING (large end)	1
17	*		RING, BACKUP (large end)	2
18	*		"O"-RING (small end)	1
19	*		RING, BACKUP (small end)	2
20			GLAND, HEAD (Rod Bearing Assembly)	1
21	*		WIPER, ROD	1
22	*		SEAL, ROD	1
23	*		RING, ROD WEAR	2
24	*		"O"-RING	1
25	*		RING, BACKUP	1
			The following item is not part of the cylinder assembly:	
26	- - -		SEAL KIT (not for use with water-glycol hydraulic fluid) Note: Items in kit identified by asterisk (*).	1

TITLE

TELESCOPE CYLINDER, 180" (4.57 M) STROKE

SECTION

D19.

PLATE NO.

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REV.

-

DATED

30 APR., 1997

PART NO.

04-057400

Simon Aerials Inc.

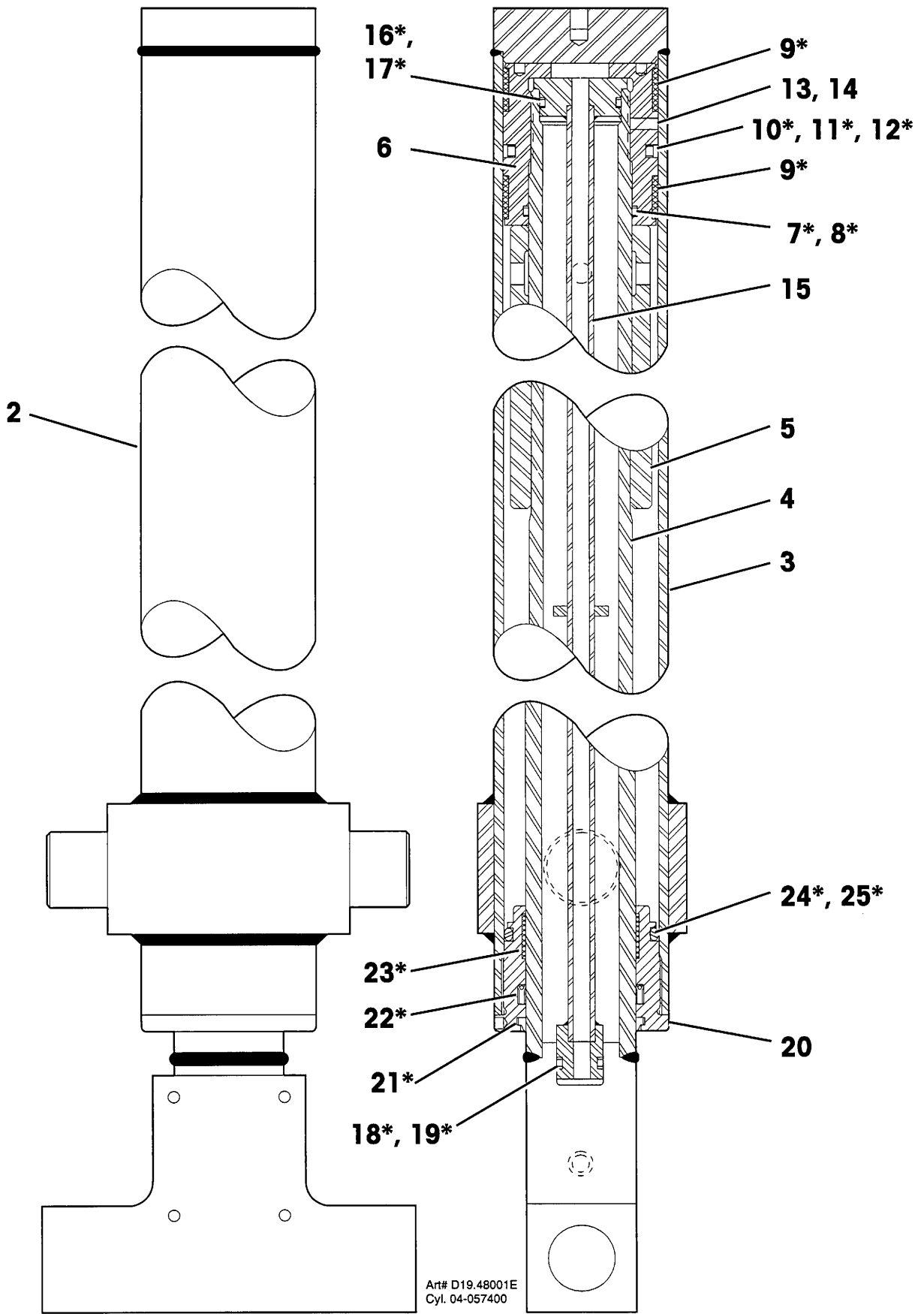
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24 Hr (Machine) 414-362-8280

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TITLE

TELESCOPE CYLINDER, 180" (4.57 M) STROKE

PART
NO.

04-057400

REV.
-

DATED
30 APR., 1997

SECTION

D19.

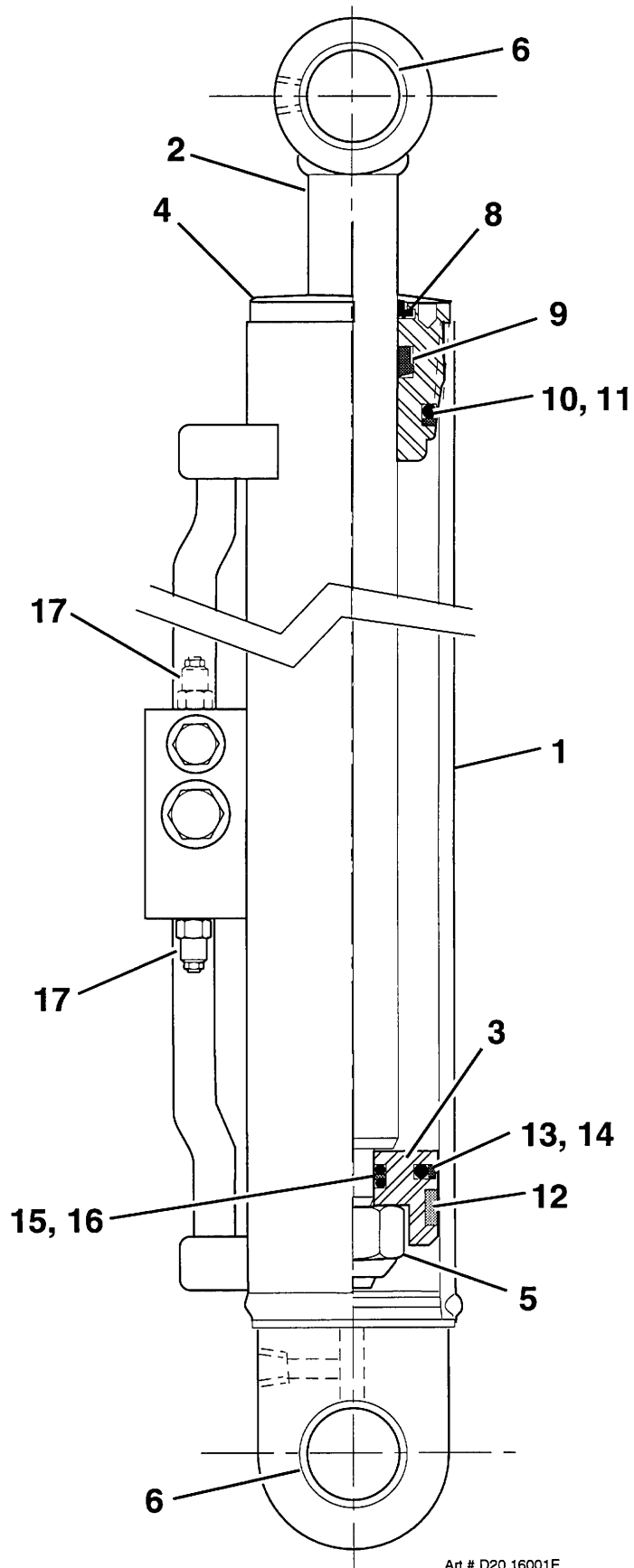
PLATE NO.

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PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04035400SH" on nameplate located on valve block.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, LOCK	1
6	04-035401		BUSHING	4
7	04-032601		SEAL KIT	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			"O"-RING	1
11			RING, BACKUP	1
12			RING, PISTON WEAR	1
13			"O"-RING	1
14			SEAL, PISTON	1
15			"O"-RING	1
16			WASHER, BACKUP	1
17			VALVE, COUNTERBALANCE	
	04-028302		Type 1 (Valve is stamped "CB-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)]	2
			Note: "Type 1" and "Type 2" valves are directly interchangeable, but must be replaced in pairs . When ordering a replacement valve, (2) of "Type 2" will be supplied unless otherwise specified.	
18			SEAL KIT, COUNTERBALANCE VALVE	
	04-028303		(for "Type 1" Valve)	1
	01-227201		(for "Type 2" Valve)	1
TITLE SLAVE LEVEL CYLINDER, 17-3/4" (.45 M) STROKE				
PLATE NO. D20.16		SIMON AERIALS INC.		PART NO. 04-035400
NEW 27 APR., 1994				



Art # D20.16001E

TITLE

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

SIMON AERIALS INC.

NEW 27 APR., 1994

PART
NO.

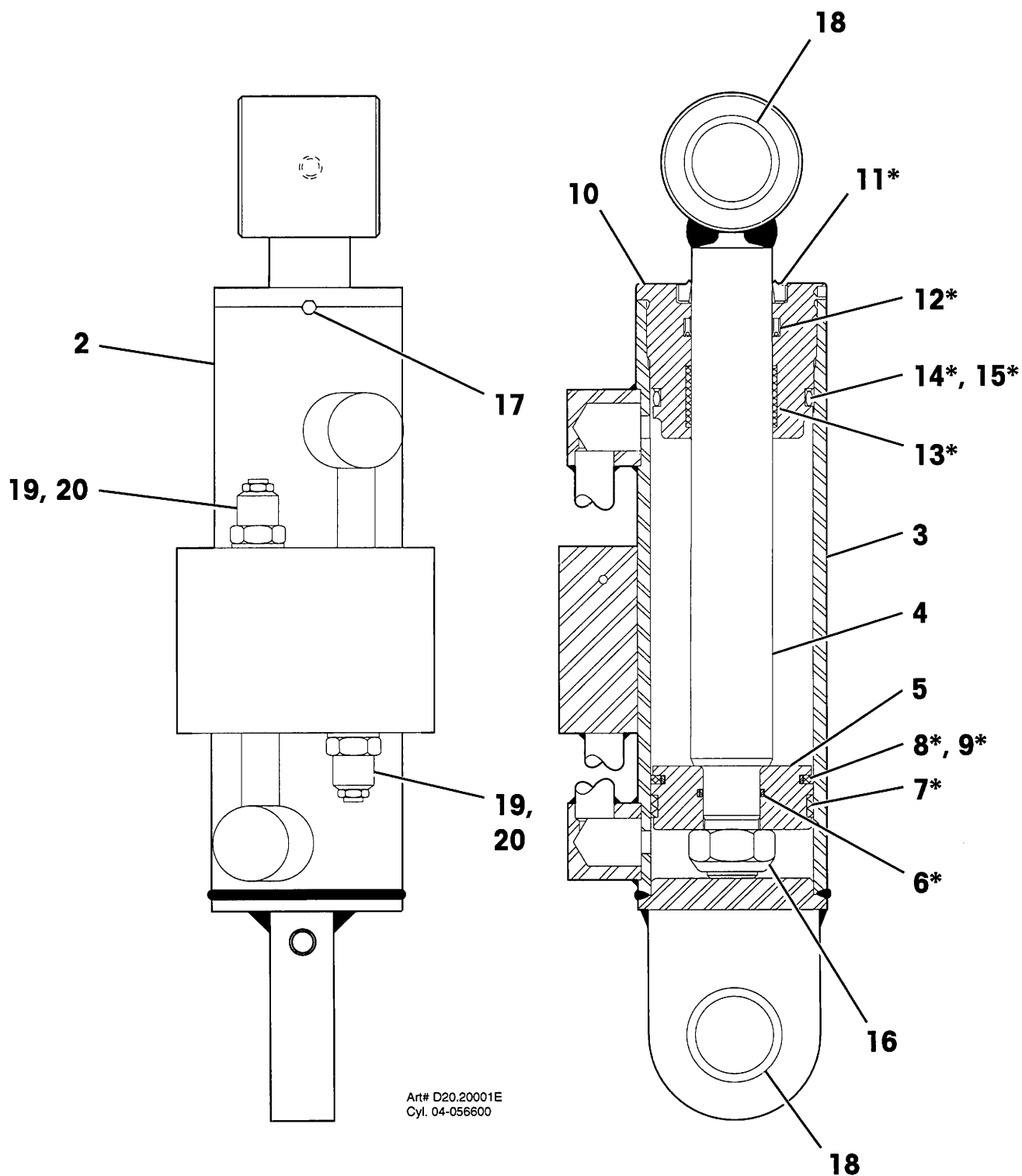
04-035400

PLATE
NO.

D20.16

PARTS LIST

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



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TITLE

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

PART
NO.

04-056600

REV.

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DATED

30 APR., 1997

SECTION

D20.

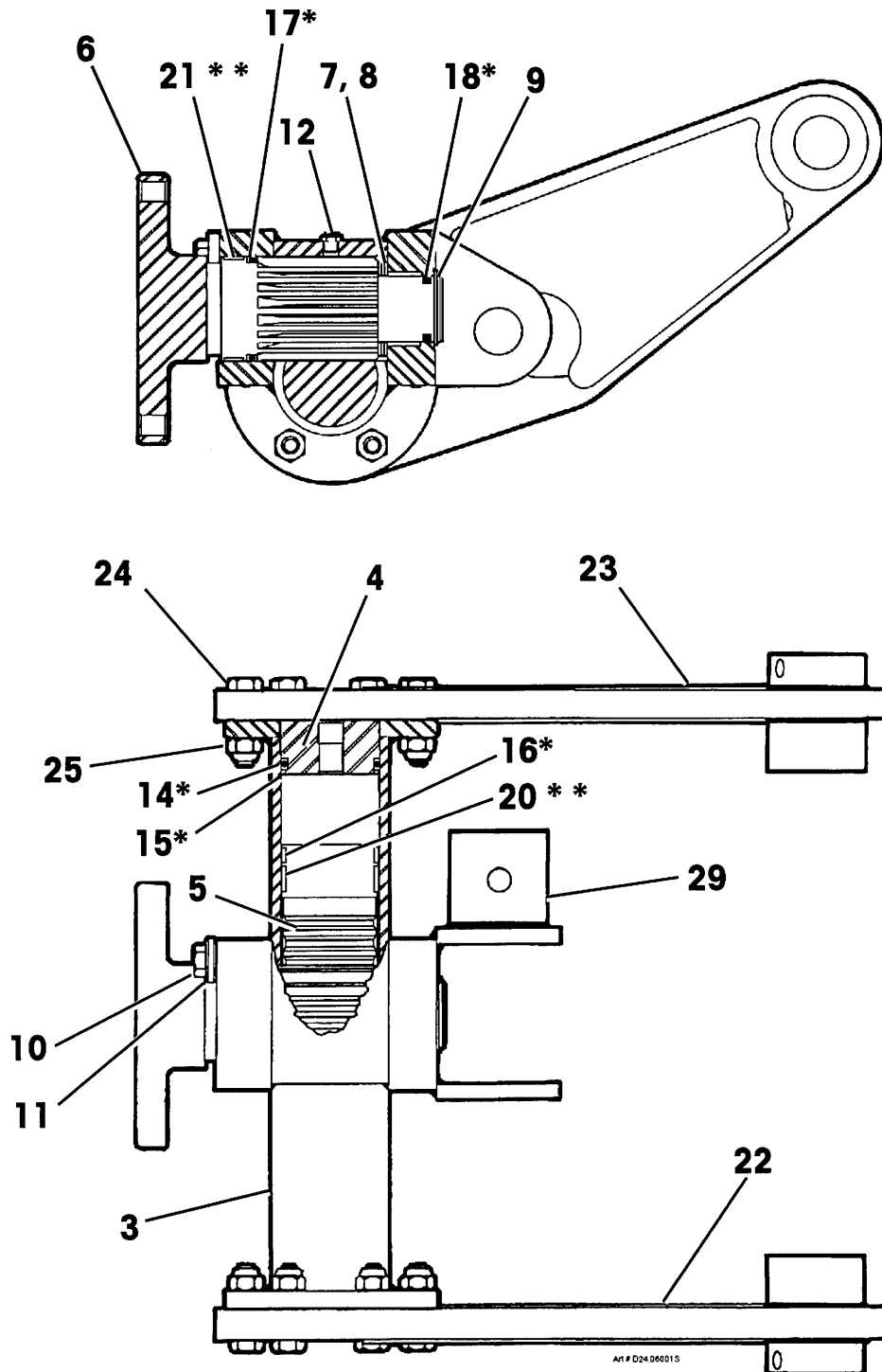
PLATE NO.

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01

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 8490 355 3010		ACTUATOR ASSEMBLY, ROTARY (with arms) for MP series with "straight tip" boom for MP series with "bent tip" boom	1
2	354 9190 02-010600		for MPN series with "straight tip" boom ACTUATOR ASSEMBLY, ROTARY (without arms)	1
3	02-010605		HOUSING, ROTARY ACTUATOR	1
4	02-010612		CAP, END	2
5	02-010609		RACK	1
6	02-010607		SHAFT, PINION	1
7	02-010604		WASHER	4
8	02-010603		BEARING, NEEDLE	2
9	02-010608		SNAP RING	1
10			BOLT, SAFETY	1
11			WASHER, SAFETY	1
12	02-010606		VALVE, RELIEF	1
13	02-010610		SEAL KIT Note: These seal kits are not for use with water-glycol fluid. Items in seal kit are identified by asterisk (*).	1
14			"O"-RING	2
15			RING, BACK-UP	2
16			SEAL, RACK	2
17			SEAL, PINION SHAFT (upper)	1
18			SEAL, PINION SHAFT (lower)	1
19	02-010611		BEARING KIT Note: Items in kit identified by double asterisk (* *).	1
20			WEAR STRIP, RACK	2
21			WEAR STRIP, PINION SHAFT	1
22	230 0660 219 9260		ARM, ROTARY ACTUATOR (right) MP series with "straight tip" boom MP series with "bent tip" boom	1
23	219 1370 230 0670		MPN series with "straight tip" boom ARM, ROTARY ACTUATOR (left) MP series with "straight tip" boom	1
24	219 9270 219 1380 07-003089		MP series with "bent tip" boom MPN series with "straight tip" boom CAP SCREW, HEX HEAD (1/2"-13 x 2", Grade 5)	12
25	07-058400		NUT, HEX LOCK (1/2"-13, Grade 8)	12
26	210 2940		PIN, PLATFORM PIVOT (1-1/4" x 20")	1
27	07-003053		CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5)	2
28	07-050016		NUT, HEX LOCK (3/8"-1, Grade 5)	2
29	208 0459		TUBE, PIN RETAINER	1
TITLE			PLATFORM ROTARY ACTUATOR	
SECTION	D24.	PLATE NO.	11	PAGE 01
REV.	B	DATED	15 MAY, 1997	PART NO. 02-010600
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Art # D24-060015

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TITLE

PLATFORM ROTARY ACTUATOR

PART
NO.

02-010600

REV.

B

DATED
15 MAY, 1997

SECTION

D24.

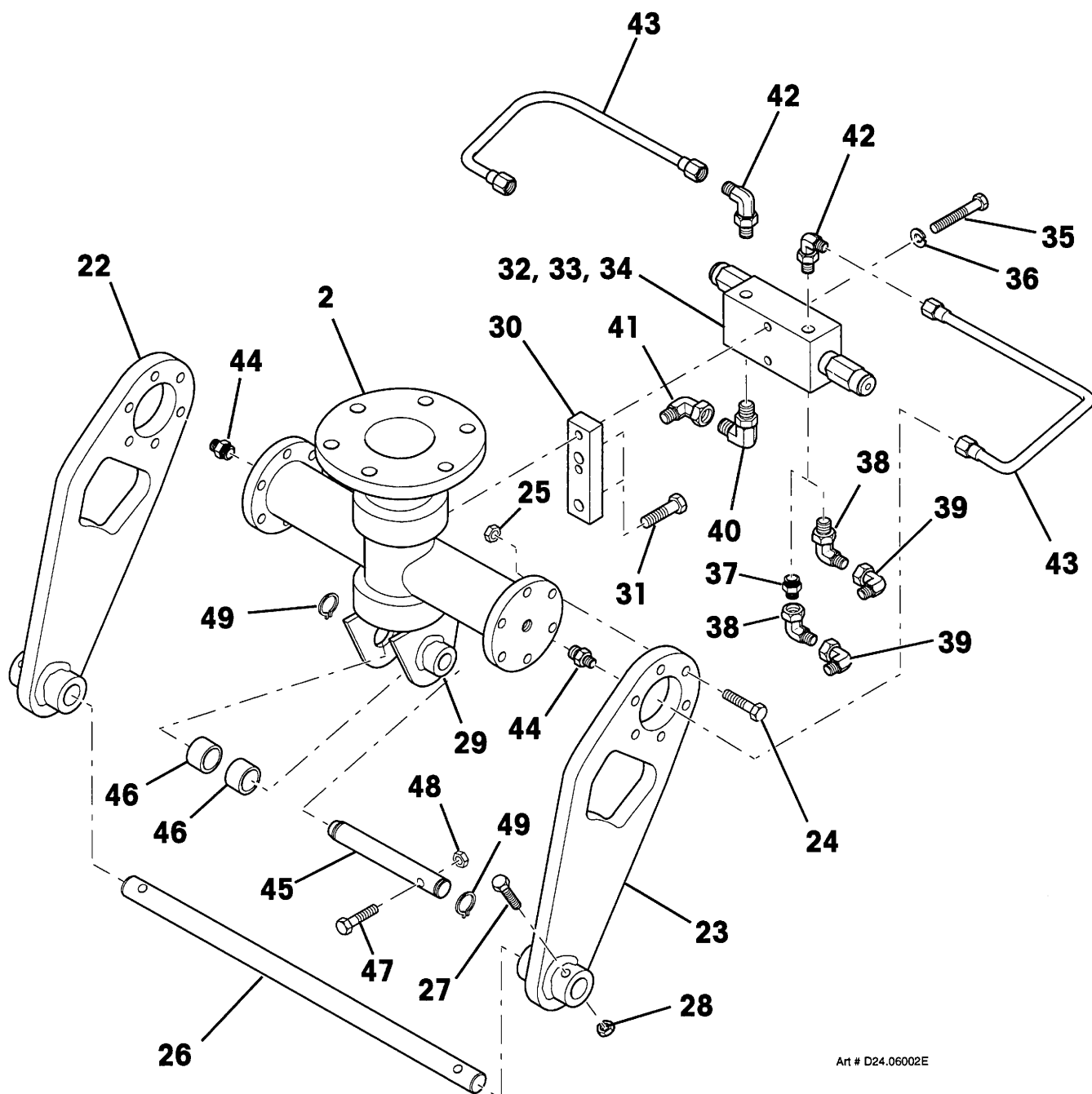
PLATE NO.

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PAGE

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PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items are not included as part of the Rotary Actuator Assembly (with arms):	
30	211 1850		SPACER, RELIEF/ CHECK VALVE MOUNTING	1
31	07-008043		CAP SCREW, SOCKET HEAD (3/8"-16 x 3/4", Grade 8)	2
32	01-202000		MANIFOLD, RELIEF/ CHECK VALVE	1
33	01-202001		CARTRIDGE, RELIEF VALVE	1
34	01-202002		CARTRIDGE, CHECK VALVE	1
35	07-003053		CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5)	2
36	07-065016		WASHER, HELICAL LOCK (3/8")	2
37	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S) (MPH 80 special application)	1
38	06-044400 06-047000		ELBOW, 90°, "O"-RING TO 37° (4-6 C50X-S) (standard versions) 45°, "O"-RING TO 37° (6 V50X-S) (MPH 60 special application)	1
39	06-051300 06-051300		90°, SWIVEL NUT (4 C6X-S) (MPH 80 special application) 90° ELBOW, SWIVEL NUT 4 C6X-S (standard versions)	1
40	06-051500 06-051300		6 C6X-S (MPH 60 special application) 4 C6X-S (MPH 80 special application) ELBOW, "O"-RING TO 37°	1
	06-044400 06-044600 06-044400		90° ELBOW (4-6 C50X-S) (standard versions) "O"-RING TO 37° (6 C50X-S) (MPH 60 special application) 90° ELBOW (4-6 C50X-S) (MPH 80 special application)	
41	06-051300 06-053000		ELBOW, SWIVEL NUT 90° ELBOW (4 C6X-S) (standard versions) 45° ELBOW (6 V6X-S) (MPH 60 special application)	1
42	06-051300 06-044600		90° ELBOW (4 C6X-S) (MPH 80 special application) 90° ELBOW, "O"-RING TO 37° 6 C50X-S (standard versions)	2
43	237 3610 353 0460		ORIFICED FITTING (special application) (Modified 6 C50X-S with three 0.0135" orifices) TUBE ASSEMBLY	2
44	06-039900		ADAPTER, "O"-RING TO 37° (6-8 F50X-S)	2
45	206 8879		PIN, SLAVE CYLINDER (Rod end) (1.25" x 7.38")	1
46	206 8444		SPACER, SLAVE CYLINDER	2
47	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1
48	07-058400		NUT, HEX LOCK (1/2"-13, Grade 8)	1
49	08-040700		RING, SNAP (1-1/4")	2
TITLE PLATFORM ROTARY ACTUATOR				
SECTION D24.	PLATE NO. 11	PAGE 02	REV. B	DATED 15 MAY, 1997
			PART NO. 02-010600	Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172



Art # D24.06002E

Simon Aerials Inc.
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TITLE

PLATFORM ROTARY ACTUATOR

PART NO. 02-010600

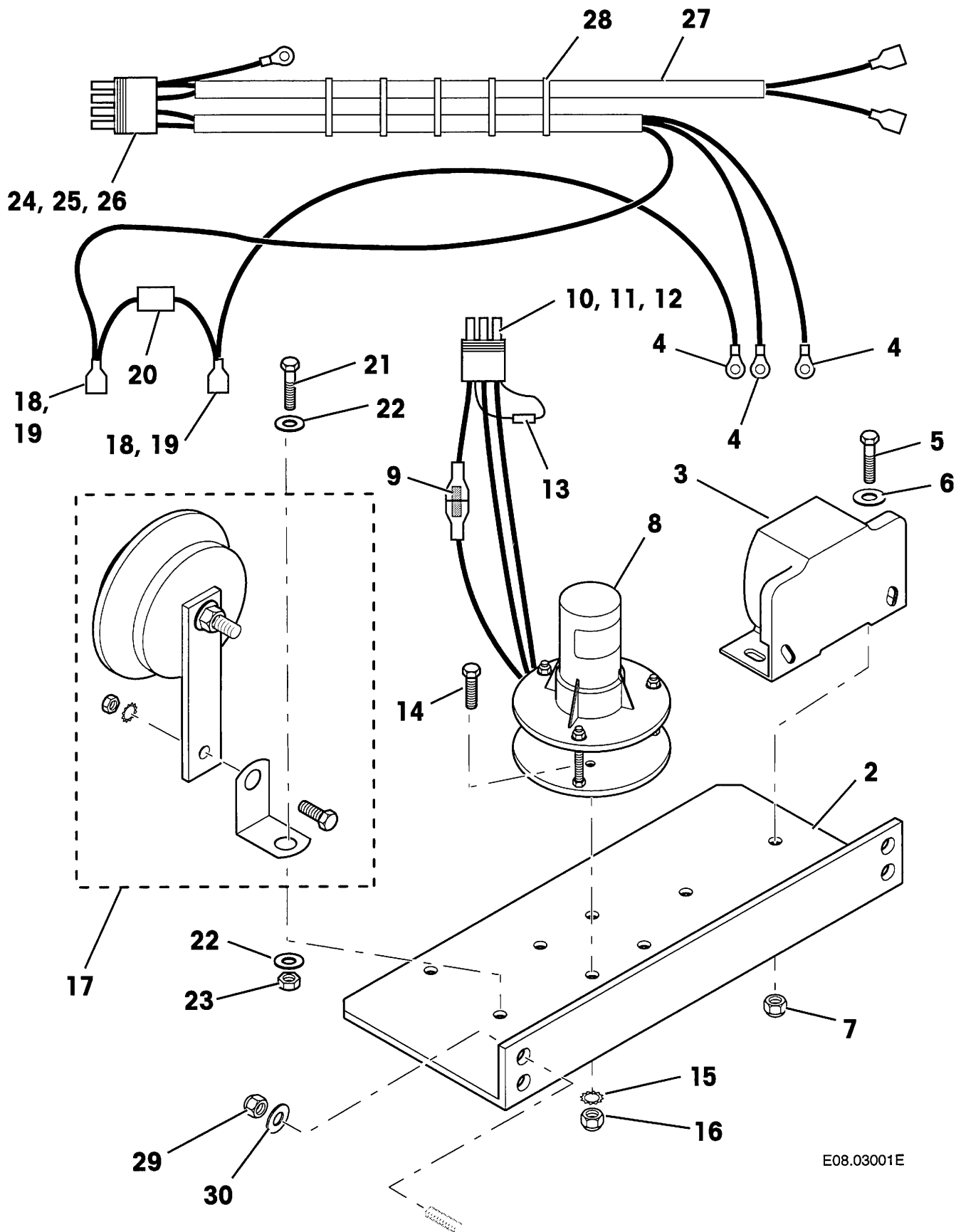
REV. B DATED 15 MAY, 1997

SECTION D24.

PLATE NO. 11

PAGE 02

PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
1	355 1290		ALARM PACKAGE ASSEMBLY	1	
2	205 6021		BRACKET, ALARM MOUNTING	1	
			Movement Alarm ...		
3	03-464600		ALARM, MOVEMENT (102 dba, 12/ 24 Volt DC. Marked "Model 530" on vendor label.)	1	
4	03-094600		TERMINAL, RING (#10 stud, #14 - #16 ga. wire)	3	
5	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	2	
6	07-060014		WASHER, FLAT (1/4", SAE)	2	
7	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2	
			Level Sensor ...		
8	03-487100		SENSOR, LEVEL (4.5°, 2 second delay)	1	
9	- - -		FUSE (AGC-1) (1 Amp, 250 Volt, fast blow)	1	
10	03-736900		HOUSING, CONNECTOR (3 way, male)	1	
11	03-474000		SOCKET, TERMINAL (#14 - #16 ga. wire)	3	
12	03-474100		SEAL, WIRE (0.079" - 0.110" dia.)	3	
13	03-711000		RESISTOR (2k Ohm, 1/2 Watt)	1	
14	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	2	
15	07-111600		WASHER, EXTERNAL TOOTH (1/4")	1	
16	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2	
			Warning Horn ...		
17	03-731300		HORN, WARNING (Single terminal, Low note)	1	
18	03-096000		TERMINAL, PIGGYBACK (#14 - #16 ga. wire)	2	
19	03-092300		TERMINAL, COUPLING (Female, insulated, #14 - #16 ga. wire)	2	
20	03-061800		DIODE, RECTIFIER (600 Volt, 6 Amp)	1	
21	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	1	
22	07-060014		WASHER, FLAT (1/4", SAE)	2	
23	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	1	
			Harness ...		
24	03-473800		HOUSING, CONNECTOR (4 way, male)	1	
25	03-474000		SOCKET, TERMINAL (#14 - #16 ga. wire)	4	
26	03-474100		SEAL, WIRE (0.079" - 0.110" dia.)	4	
27	03-085500		CABLE, ELECTRICAL (SJO, #16 AWG) 2 conductor (Bulk item, 1 ft [30.5 cm] required here)	A.R.	
	03-085700		4 conductor (Bulk item, 1 ft [30.5 cm] required here)		
28	03-439000		TIE, CABLE (3.62" [92 mm] long)	12	
			The following items are not included with the Alarm Package:		
29	07-062014		WASHER, FLAT (1/4")	8	
30	07-050014		NUT, LOCK (1/4"-20, Grade 8)	4	
TITLE			ALARM PACKAGE		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	E08.	PLATE NO. 03	PAGE 01	REV. -	
			DATED 23 APR., 1997	PART NO. 355 1290	



E08.03001E

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TITLE

ALARM PACKAGE

PART NO.

355 1290

REV. -

DATED 23 APR., 1997

SECTION

E08.

PLATE NO.

03

PAGE

01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-048502		COUPLING	1
2	02-048503		SHAFT, INPUT	1
3	02-048504		SPINDLE	1
4	02-048505		SEAL, BOOT	1
5	02-048501		SEAL, OIL	1
6	02-048506		CONE AND ROLLER, HUB BEARING (inner)	1
7	02-048507		CUP, HUB BEARING (inner)	1
8	02-048508		BOLT, WHEEL	10
9	02-048509		HUB	1
10	02-048510		CUP, HUB BEARING (outer)	1
11	02-048511		CONE AND ROLLER, HUB BEARING (outer)	1
12	02-048512		WASHER, THRUST	1
13	02-048513		WASHER, LOCK	1
14	02-048514		NUT, BEARING	1
15	02-048515		RING, RETAINING	2
16	02-048516		WASHER	2
17	02-048517		SPRING, DISENGAGE	1
18	02-048518		GEAR, RING	1
19	02-048519		PLUG, MAGNETIC	1
20	02-048520		CARRIER ASSEMBLY, SECONDARY	1
21	02-048521		CARRIER ASSEMBLY, PRIMARY	1
22	02-048522		SUN GEAR, PRIMARY	1
23	02-048523		WASHER, THRUST	1
24	02-048524		PLUNGER, DISENGAGE	1
25	02-048525		O-RING	1
26	02-048526		COVER	1
27	02-048527		BOLT, HEX HEAD (Grade 8)	12
28	02-048528		WASHER, FLAT	12
29	02-048529		PLUG, PIPE	1
30	02-048530		COVER, DISENGAGE	1
31	02-048531		BOLT, HEX HEAD	2
32	02-048532		CAP KIT, COVER (Quick-disconnect, optional)	1
33			GASKET, QUICK DISCONNECT	1
34			ASSEMBLY, QUICK DISCONNECT	1
35			BOLT, HEX HEAD	2
36	02-048533		SEAL KIT	1

TITLE

TORQUE HUB (AUBURN)

SECTION

F01.

PLATE NO.

08

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01

REV.

-

DATED

30 OCT. 1996

PART NO.

02-048500

Simon Aerials Inc.

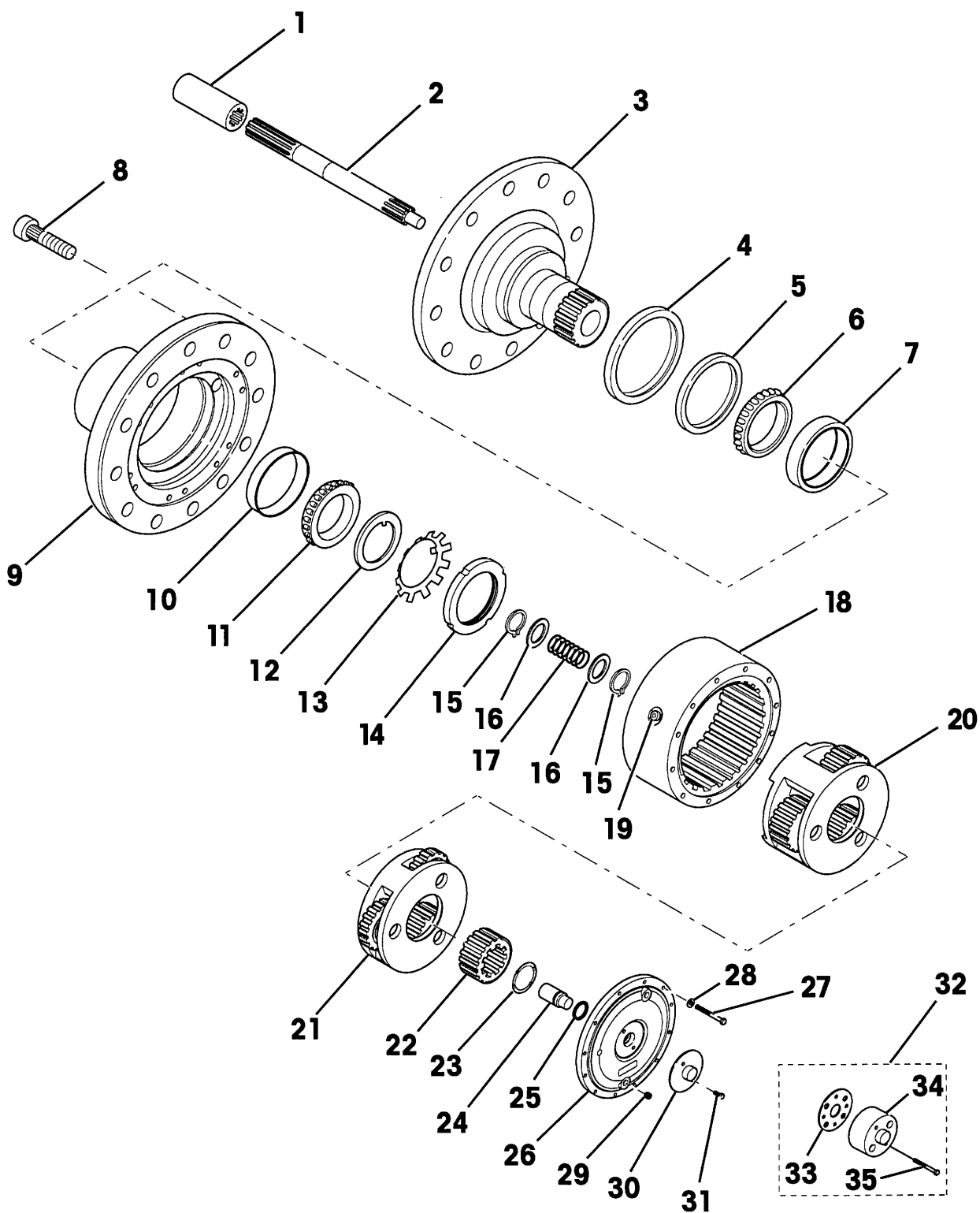
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Art# F01.08001E

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TITLE

TORQUE HUB (AUBURN)

PART NO. **02-048500**

REV. - DATED 30 OCT. 1996

SECTION **F01.**

PLATE NO. **08**

PAGE **01**

PARTS LIST

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

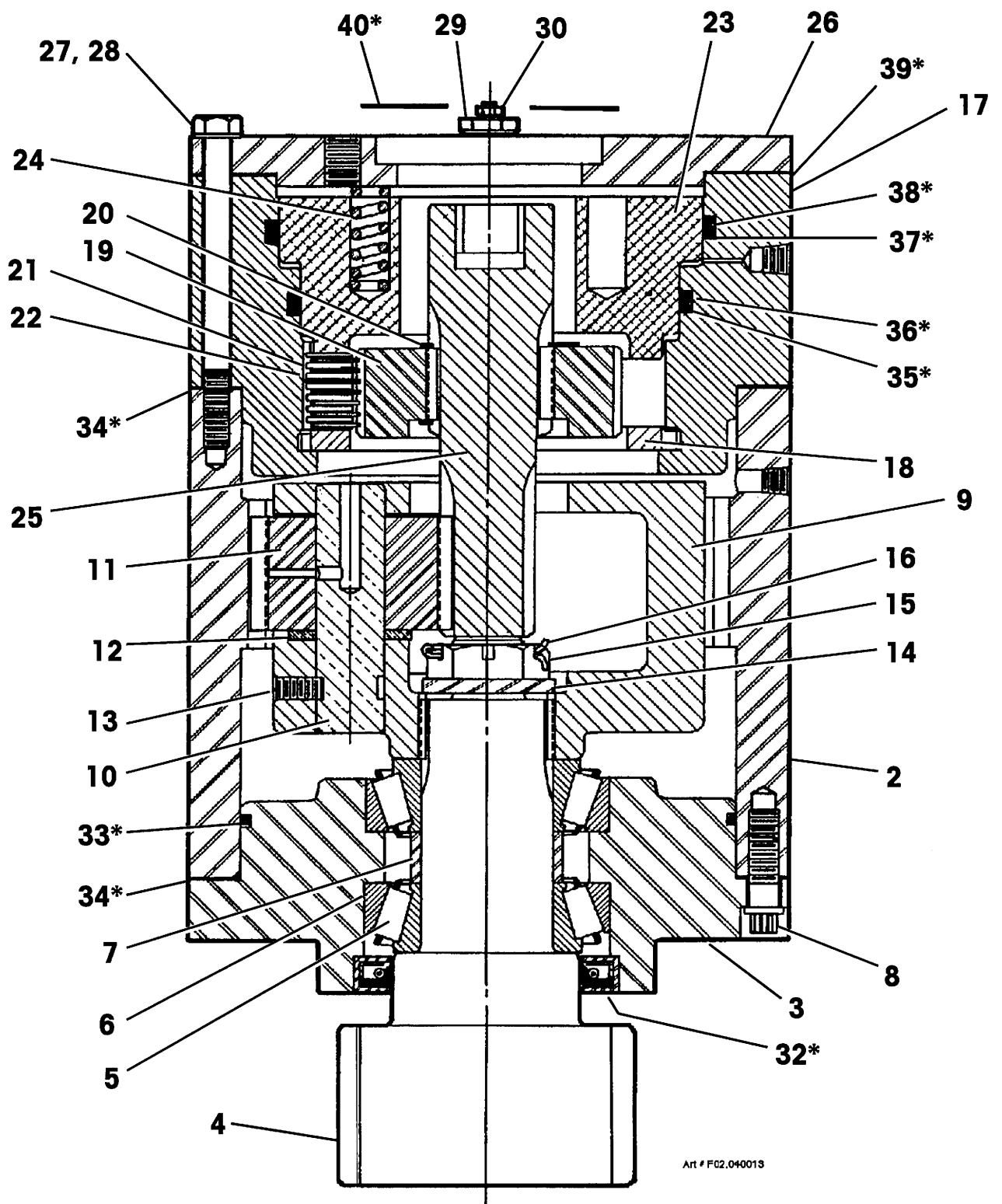
TITLE

SWING REDUCER ASSEMBLY

SECTION **F02.** PLATE NO. **04** PAGE **01** REV. **-** DATED **26 AUG., 1994** PART NO. **02-006 100**



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SWING REDUCER ASSEMBLY

PART NO.

02-006 100

REV. -

DATED 26 AUG., 1994

SECTION

F02.

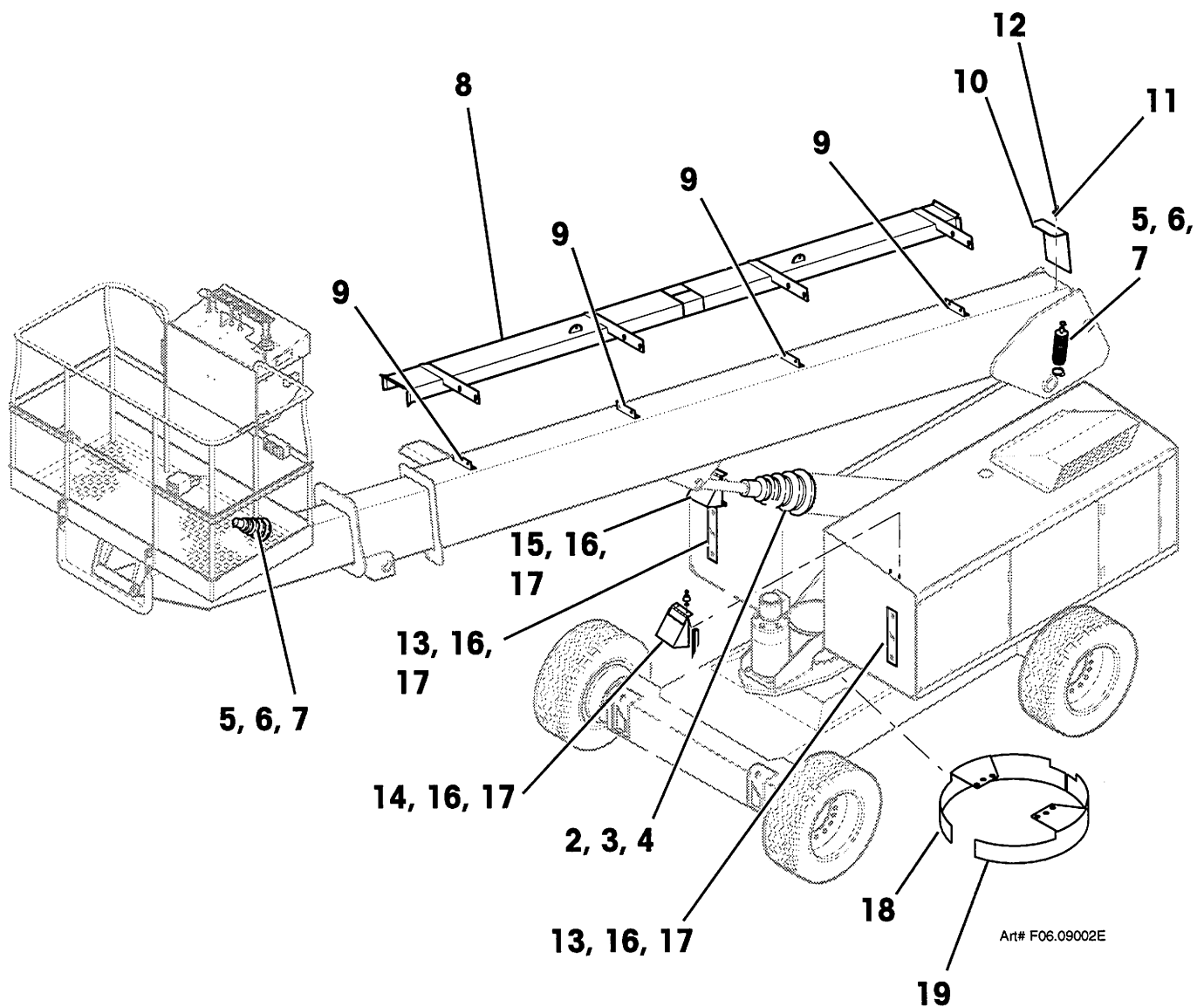
PLATE NO.

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PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.	
1			HOSTILE ENVIRONMENT PACKAGE	1	
2	10-224000		BOOT, BOOM LIFT CYLINDER (with zipper)	1	
3	09-011300		CLAMP, HOSE (2-1/4" to 12-1/4")	1	
4	09-008700		CLAMP, HOSE (4-1/2")	1	
5	10-040900		BOOT, LEVEL CYLINDER (with zipper)	2	
6	09-008400		CLAMP, HOSE (1-3/4")	2	
7	09-015000		CLAMP, HOSE (2-1/2")	2	
8	232 6030		COVER, CATRAC HOSE	1	
	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2")	8	
	07-062016		WASHER, FLAT (3/8")	16	
	07-050016		NUT, LOCK (3/8"-16)	8	
9	211 7960		ANGLE (3" x 2" x 1/4" x 6")	4	
10	232 5870		COVER, BOOM FOOT	1	
11	07-062014		WASHER, FLAT (1/4")	8	
12	07-044014		NUT, ACORN (1/4"-20)	8	
13	217 0760		COVER, SIGHT GUAGE	2	
14	208 1629		COVER, HYDRAULIC TANK FILLER	1	
15	219 9690		COVER, FUEL TANK FILLER	1	
16	07-062014		WASHER, FLAT (1/4")	8	
17	07-044014		NUT, ACORN (1/4"-20)	8	
			The following items are not part of the Hostile Environment Package, but are sold separately:		
18	237 1680		GUARD, SWING BEARING (Left)	1	
19	237 1690		GUARD, SWING BEARING (Right)	1	
20	10-159100		COVER, PLATFORM CONTROL CONSOLE (Black vinyl) (not shown)	1	
21	232 6050		DOOR, ACCESS (not shown)	1	
TITLE				HOSTILE ENVIRONMENT PACKAGE, MPH 60	
SECTION	F06.	PLATE NO.	09	PAGE	01
REV.	-	DATED	02 MAY. 1997	PART NO.	
				Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	



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HOSTILE ENVIRONMENT PACKAGE, MPH 60

PART
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DATED
02 MAY. 1997

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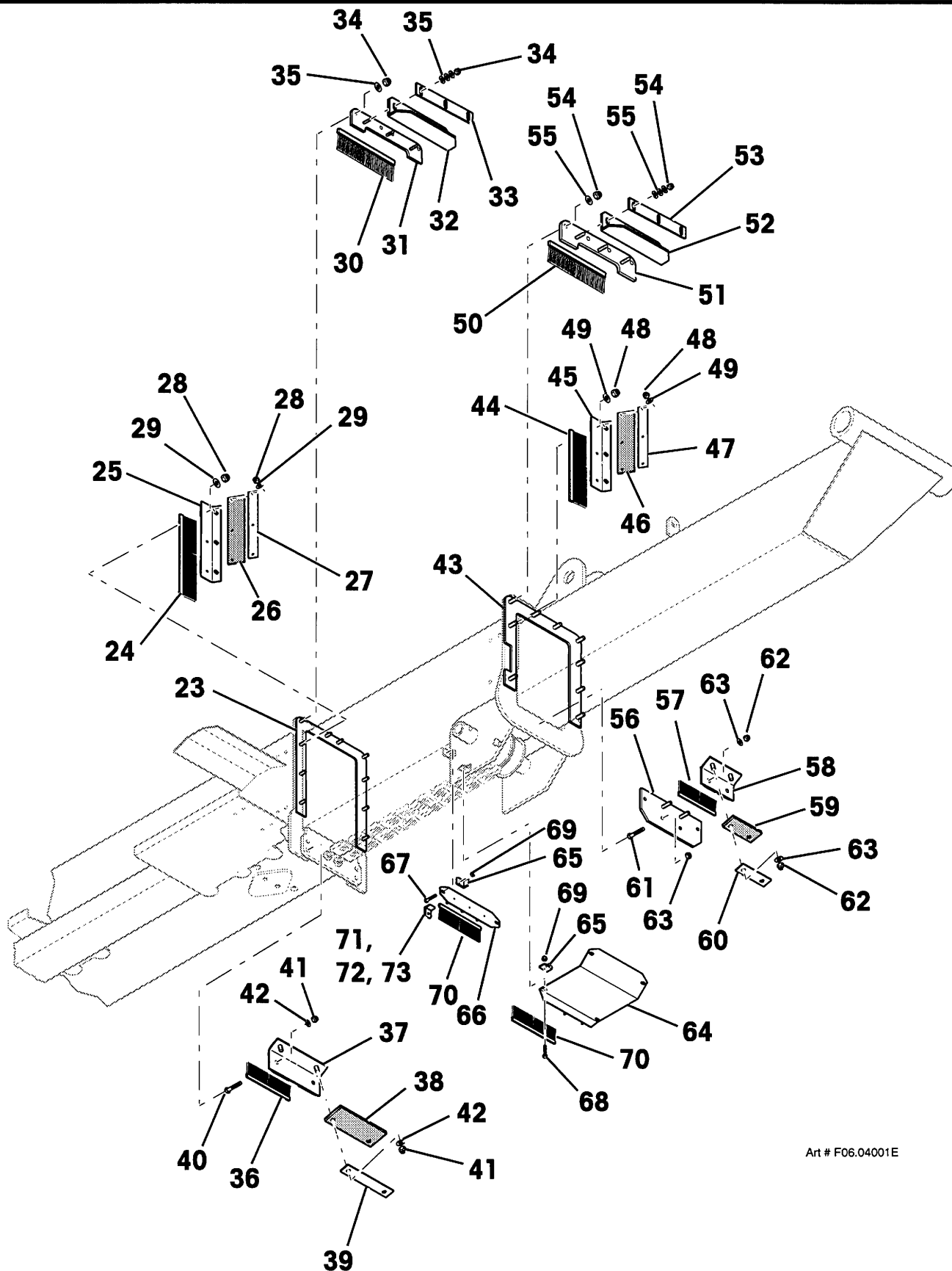
PLATE NO.

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01

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
22	232 5740		BOOM BRUSH AND WIPER ASSEMBLY	1
23	232 5750		FRAME, MOUNTING	1
24	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section. Cut to fit. 15.5" [39.4 cm] piece [209 3402] used here.)	2
25	232 5770		SEAL PLATE, BASE BOOM SIDE (mounting angle)	2
26	232 5790		WIPER. BOOM SEAL	2
27	232 5800		CLAMP, BOOM SEAL	2
28	07-050016		NUT, LOCK (3/8"-16, Grade 5)	12
29	07-062016		WASHER, FLAT (3/8")	12
30	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section. Cut to fit. 10.5" [26.7 cm] piece [209 3433] used here.)	1
31	231 7460		SEAL PLATE, BASE BOOM TOP (Scraper mounting plate)	1
32	231 7540		SCRAPER, BOOM SEAL	1
33	231 7550		CLAMP, BRUSH	1
34	07-050016		NUT, LOCK (3/8"-16, Grade 5)	7
35	07-062016		WASHER, FLAT (3/8")	7
36	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section. Cut to fit. 8.25" [21.0 cm] piece [217 6690] used here.)	1
37	231 7520		ANGLE, MOUNTING	1
38	231 7750		WIPER, BOOM SEAL	1
39	231 7760		CLAMP, BOOM SEAL	1
40	07-031008		STUD, WELD (3/8"-16 x 1")	2
41	07-050016		NUT, LOCK (3/8"-16, Grade 5)	2
42	07-062016		WASHER, FLAT (3/8")	2
43	231 7700		FRAME, MOUNTING	1
44	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section. Cut to fit. 11.0" [27.9 cm] piece [217 6010] used here.)	2
45	232 5830		SEAL PLATE, BASE BOOM SIDE (mounting angle)	2
46	232 5850		WIPER. BOOM SEAL	2
47	232 5860		CLAMP, BOOM SEAL	2
48	07-050016		NUT, LOCK (3/8"-16, Grade 5)	6
49	07-062016		WASHER, FLAT (3/8")	6
50	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section. Cut to fit. 8.5" [21.6 cm] piece [209 3446] used here.)	1
51	231 7560		SEAL PLATE, MID BOOM TOP (Scraper mounting plate)	1
52	231 7620		SCRAPER, BOOM SEAL	1
53	231 7630		CLAMP, BRUSH	1
54	07-050016		NUT, LOCK (3/8"-16, Grade 5)	3
55	07-062016		WASHER, FLAT (3/8")	A.R.
TITLE			HOSTILE ENVIRONMENT PACKAGE, MPH 60	
SECTION	F06.	PLATE NO.	09	PAGE 02
REV.	-	DATED	02 MAY. 1997	PART NO.
			Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	



Art # F06.04001E

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HOSTILE ENVIRONMENT PACKAGE, MPH 60

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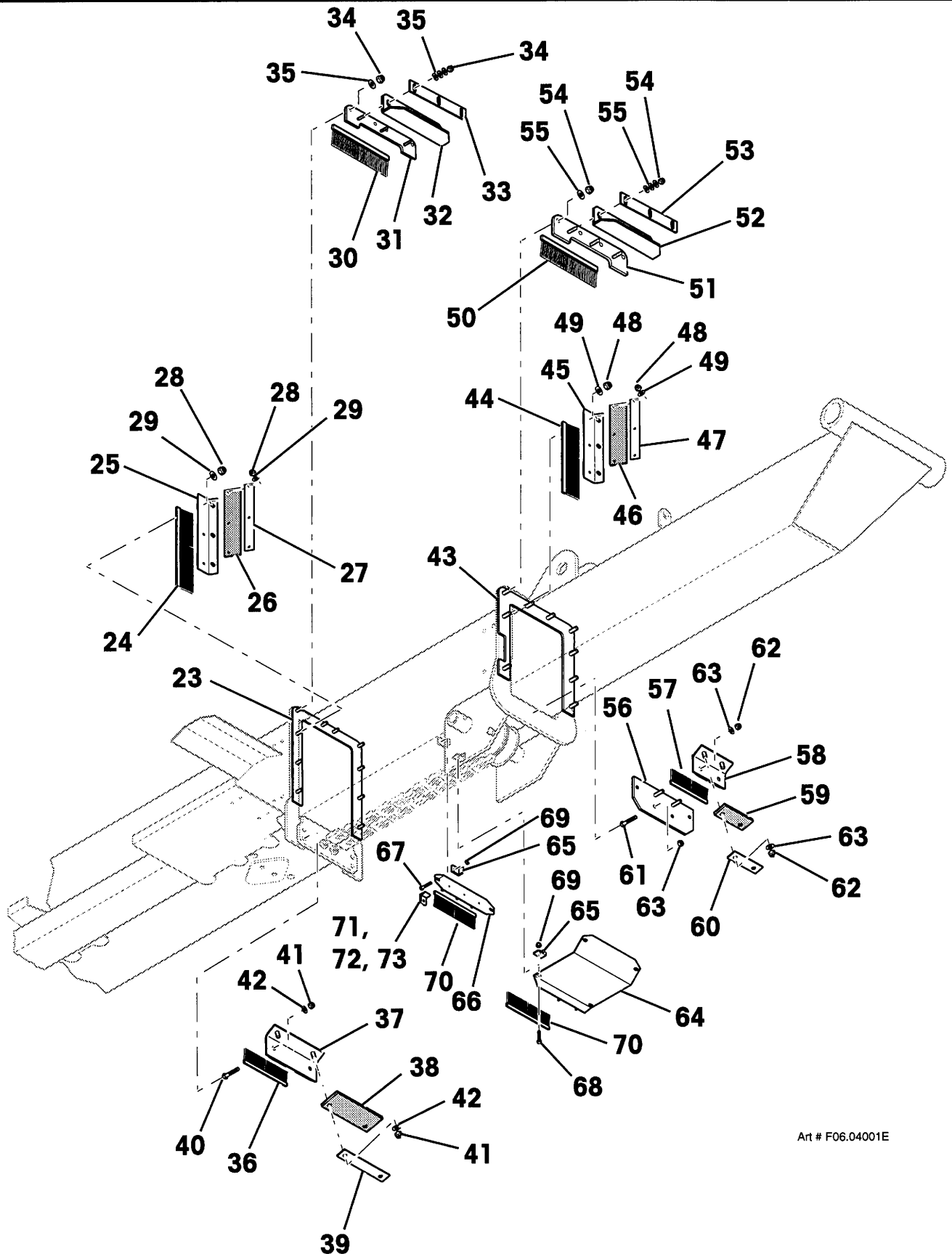
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02

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
56	231 7850		BOOM BRUSH AND WIPER ASSEMBLY (Continued)	
57	10-041100		PLATE, BRUSH MOUNTING	1
			BRUSH ASSEMBLY, BOOM (36" [.914 m] long section.	
			Cut to fit. 6.25" [15.9 cm] piece [217 6030] used here.)	1
58	231 7600		ANGLE, MOUNTING	1
59	231 7800		WIPER, BOOM SEAL	1
60	231 7810		CLAMP, BOOM SEAL	1
61	07-031008		STUD, WELD (3/8"-16 x 1")	2
62	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
63	07-062016		WASHER, FLAT (3/8")	4
64	209 1075		COVER, BOOM SHEAVES	1
65	209 1136		ANGLE, MOUNTING	6
66	- - -		PLATE, BRUSH MOUNTING	1
67	07-003025		CAP SCREW, HEX HEAD (5/16"-18 x 1")	2
68	07-003023		CAP SCREW, HEX HEAD (5/16"-18 x 3/4")	4
69	07-050015		NUT, LOCK (5/16"-18)	6
70	10-041100		BRUSH ASSEMBLY, BOOM (36" [.914 m] long section.	
			Cut to fit. 6.25" [15.9 cm] piece [217 6030] used here.)	2
71	204 1739		RETAINER, BRUSH	6
72	07-050014		NUT, LOCK (1/4"-20)	6
73	07-062014		WASHER, FLAT (1/4")	6
TITLE			HOSTILE ENVIRONMENT PACKAGE, MPH 60	
SECTION	F06.	PLATE NO. 09	PAGE 03	REV. -
			DATED 02 MAY. 1997	PART NO.
			Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	



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HOSTILE ENVIRONMENT PACKAGE, MPH 60

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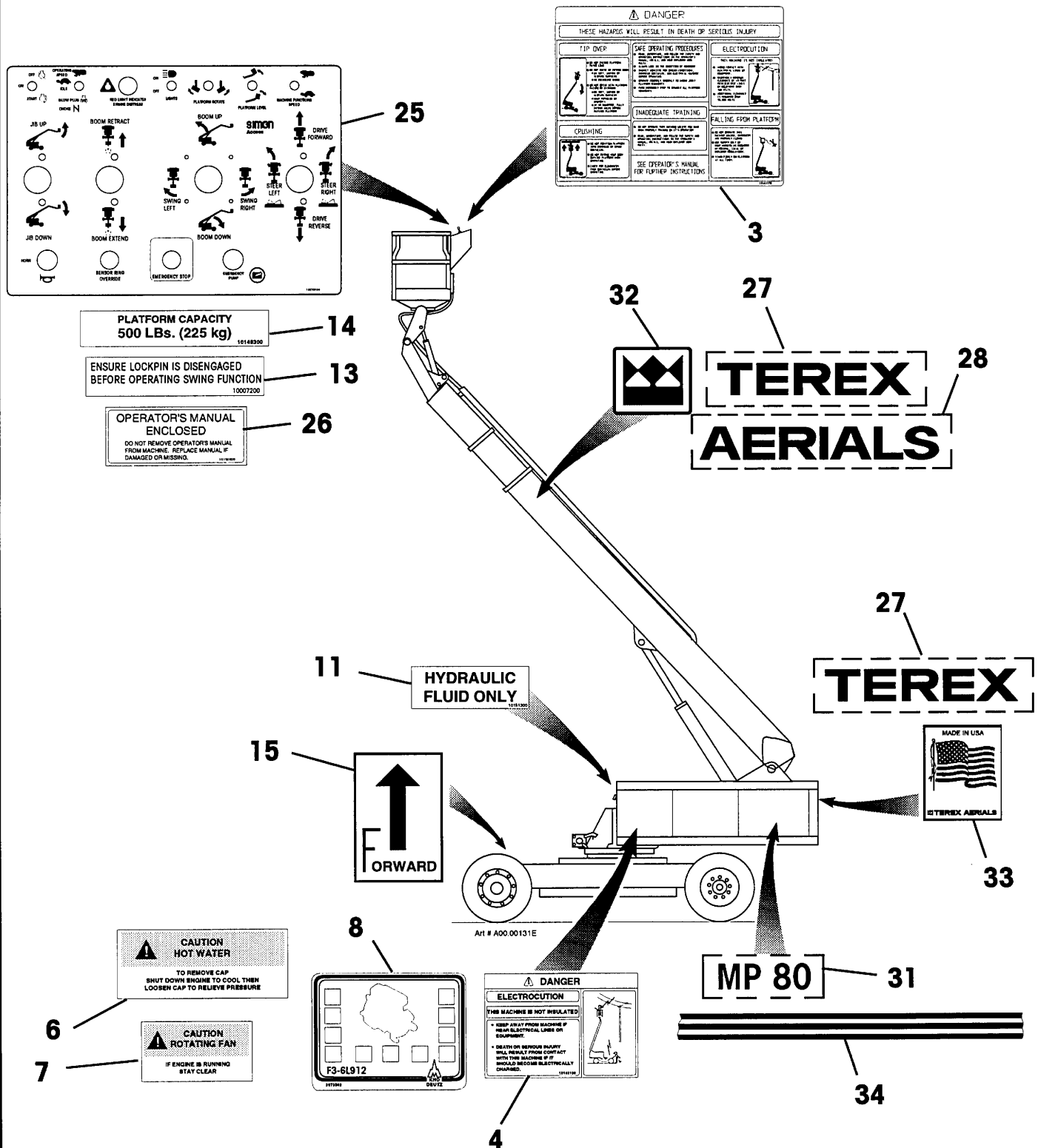
09

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PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			DECAL KIT (Not available. Order decals individually.)	
2	10-130600		DECAL, "DANGER" (Hazard listing, at Ground controls)	1
3	10-142100		DECAL, "DANGER" (Hazard listing, at Platform controls)	1
4	10-145100		DECAL, "DANGER" (Electrocution)	2
5	10-272600		DECAL, "CAUTION" ("Safety belt lanyard only ...")	2
6	10-094700		DECAL, "CAUTION, HOT WATER ..." (for versions with liquid cooled engine)	1
7	10-094900		DECAL, "CAUTION, ROTATING FAN ..." (for versions with liquid cooled engine)	1
8	10-025400		DECAL, ENGINE MAINTENANCE (decal is marked "F3-6L912" and "2973582") (used with Deutz 912 engine)	1
9	10-135100		DECAL, "FOR LUBRICATION OF SWING BEARING ..." (with optional oil bath swing bearing)	1
10			PLACARD, FUEL	1
11	10-117900		"GASOLINE ONLY" (Black type on white)	1
	10-151100		"DIESEL FUEL ONLY" (Black type on white)	
	10-151300		PLACARD, "HYDRAULIC FLUID ONLY"	
12	10-012600		DECAL, "OPEN HYDRAULIC TANK VALVES ..."	1
13	10-007200		DECAL, "ENSURE LOCK PIN IS DISENGAGED ..."	2
14			DECAL, PLATFORM CAPACITY (4-1/2" [114 mm] wide)	4
15	10-148300		"Platform capacity 500 LBs (225 kg)" (MP70, MP 80)	2
	10-148900		"Platform capacity 1000 LBs (450 kg)" (MPH 60)	
	10-012900		DECAL, "FORWARD" WITH ARROW	
16	10-108600		DECAL, "FOR PROPER OPERATION - SET FUEL ..." (for some "Dual fuel" versions) (Decal was marked "215 7710" on some earlier versions.)	1
17	10-016800		DECAL, "GAS/ OFF/ PROPANE" (for some "Dual fuel" versions)	1
18	10-025000		DECAL, "IN SWITCHING FROM GAS TO PROPANE ..." (for some "Dual fuel" versions)	1
19	10-107200		DECAL, "CAUTION" ("Steer system must be disengaged ...") (for versions with optional tow package)	1
TITLE			DECALS, MPH 60 THRU MP 80 (WITH SIMCON CONTROLS)	
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			 TEREX AERIALS Milwaukee, Wisconsin 10600 West Brown Deer Road • Milwaukee, WI 53224-1520 USA (414) 355-0802 • FAX: (414) 355-0832 TEREX AERIALS IS A UNIT OF TEREX CRANES	

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
20	10-279500		DECAL, GROUND ELECTRICAL CONTROLS	1
21	10-266700		DECAL, "USER ASSIST DIAGNOSTIC SYSTEM ..." (mounts to outside of circuit board cover)	1
22	10-269200		DECAL, "WARNING" (Controller board diagram) (mounts to inside of circuit board cover)	1
23	10-265200		PLACARD, REMOTE CONTROL PENDANT	1
24	10-272100		PLACARD, "FUNCTION POWER"	1
25	10-278100		PLACARD, PLATFORM CONTROLS	1
26	10-139800		DECAL, "OPERATOR'S MANUAL ENCLOSED"	1
27	10-284302		DECAL, "TEREX" NAME (Black, 5.12" [13 cm] high x 30.5" [77.5 cm] wide)	2
28	10-284402		DECAL, "AERIALS" NAME (Black, 5.12" [13 cm] high x 37.3" [94.8 cm] wide)	1
29	10-284301		DECAL, "TEREX" NAME (Black, 3.12" [8 cm] high x 18.6" [47.3 cm] wide)	1
30	10-284401		DECAL, "AERIALS" NAME (Black, 3.12" [8 cm] high x 22.8" [57.8 cm] wide)	1
31			DECAL, MODEL DESIGNATION	2
	10-133400		MODEL "MPH 60"	
	10-132100		MODEL "MP 70"	
	10-132200		MODEL "MP 80"	
32	MK 181 976		DECAL, TEREX "CROWN" (Red/ Black, 7.9" [20 cm] high x 9" [23 cm] wide)	1
33	10-121600		DECAL, "MADE IN U.S.A."	1
34	10-126900		DECAL, STRIPE ([3] Dk Gray stripes, 2-1/8" [54 mm] wide) (Bulk item, order as needed.)	A.R.
35	10-031000		"SAF STEP" (Black) (4" [102 mm] wide x 60 ft [18.3 m] long roll)	A.R.
			The following items were used on earlier versions:	
36	10-017100		DECAL, "SIMON" NAME (Black, 7" [178 mm] high)	2
37	10-105900		DECAL, "SIMON" NAME (White, 5" [127 mm] high)	1
38	10-131900		DECAL, SIMON "S" LOGO (Orange/ Gray, 9" [229 mm] wide x 13-1/2" [344 mm])	2
39	10-126800		DECAL, STRIPE ([4] Orange stripes, 3-3/4" [95 mm] wide) (Bulk item, order as needed)	A.R.
TITLE			DECALS, MPH 60 THRU MP 80 (WITH SIMCON CONTROLS)	 TEREX AERIALS Milwaukee, Wisconsin 10600 West Brown Deer Road • Milwaukee, WI 53224-1520 USA (414) 355-0802 • FAX: (414) 355-0832 TEREX AERIALS IS A UNIT OF TEREX CRANES
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Right side decals (typical version shown). Specific models or options may cause changes in decal location. See first page for illustration of Left side decals.

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