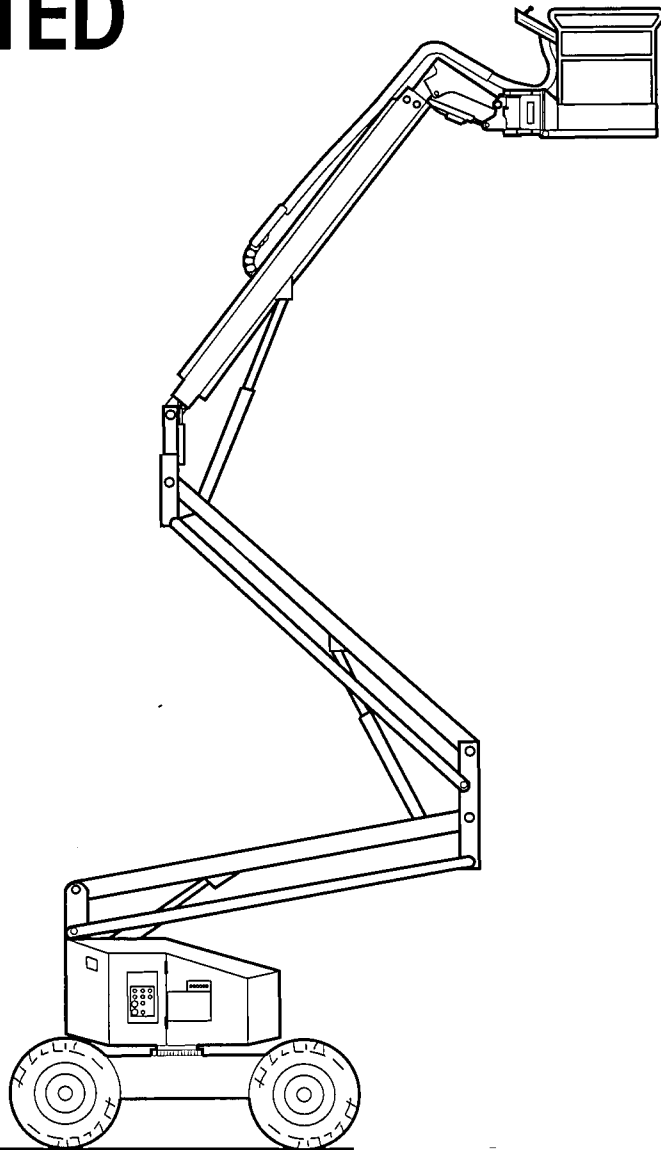


**CONSTRUCTOR**  
**MODEL AT 60C**

# ILLUSTRATED PARTS CATALOG

FOR MACHINE  
SERIAL NUMBER

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Part No. 89-446005 • Rev. "A.10" dated Jun. 1995 •

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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 AT60C CONSTRUCTOR SELF-PROPELLED AERIAL WORK PLATFORMS. All parts represented here are manufactured and supplied in accordance with Simon Aerials quality standards. We recommend that you use GENUINE SIMON AERIALS PARTS to insure maximum SAFETY and PERFORMANCE.

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

## HOW TO USE THIS CATALOG

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

The "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 AT60C CONSTRUCTOR machines are included in this Catalog.

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

The Parts Catalog is divided into "Sections", numbered from 1 through 99. Each section contains the individual parts that make up a major component, assembly or item. The first four sections (1 through 4) 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:

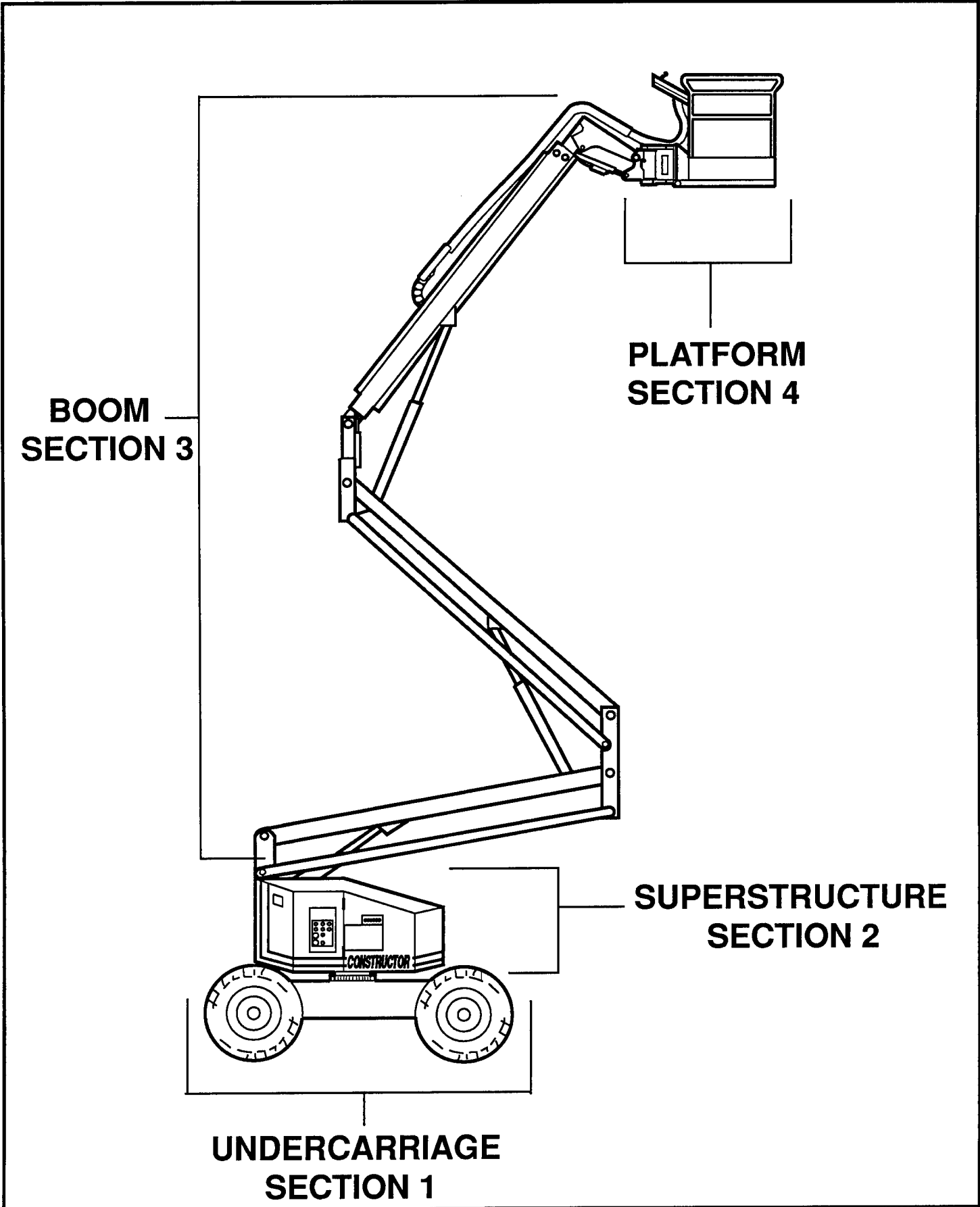
4. Parts Plate number, Item Number and Description of the desired item, OR
5. Part Number of the next assembly (Parent Part), if the desired item is not listed.

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 parts should be determined as though you are standing at the Platform Control Console, with the Platform in stowed position (over the non-steering axle). All dimensions are in inches unless otherwise specified.

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

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



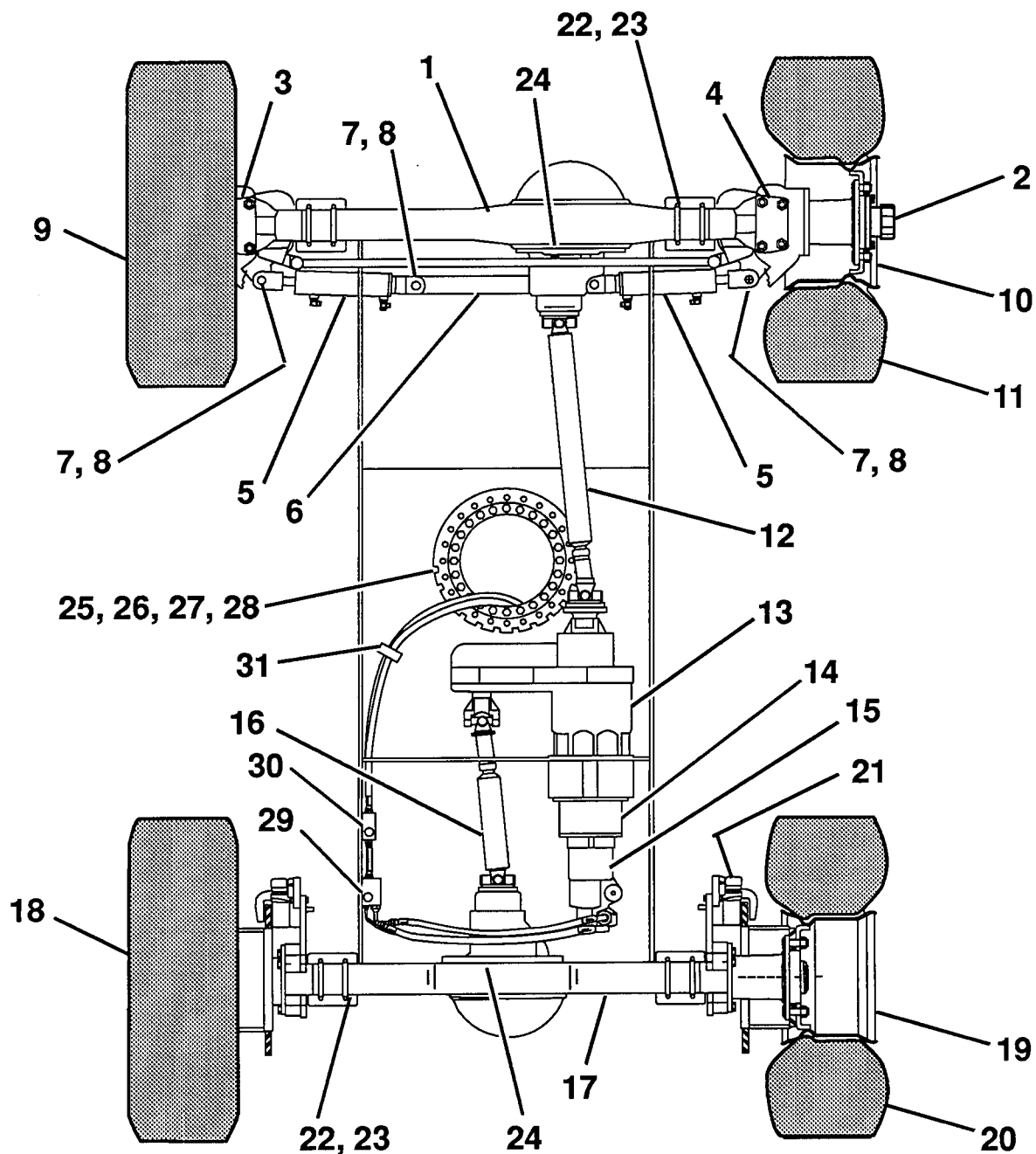
TITLE                      PRIMARY MACHINE COMPONENT GROUPS		
SIMON AERIALS INC.	PART NO.	PLATE NO.

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-027600	19.02	AXLE ASSEMBLY, FRONT (Steer/ Drive) <b>Type 1</b> , for S/N thru Y1354	1
	02-032900	19.08	<b>Type 2</b> , for S/N Y1355 and up	1
2	02-041400	19.09	HUB ASSEMBLY, LOCKING	1
3			ARM, STEER (Right hand) For use with " <b>Type 1</b> " steer/ drive axle:	
	2171180		without Tow Package	1
	2171210		with Tow Package	1
			For use with " <b>Type 2</b> " steer/ drive axle:	
	2187060		without Tow Package	1
	No part #		with Tow Package	1
4			ARM, STEER (Left hand)	
	2171170		For use with " <b>Type 1</b> " steer/ drive axle	1
	2187060		For use with " <b>Type 2</b> " steer/ drive axle	1
5	See Plate . .	11.13	CYLINDER, STEER	2
6	2150390		ANCHOR, STEER CYLINDER	1
7	2129150		PIN, STEER CYLINDER END	4
8	08-040600		RING, RETAINING (1")	4
9			WHEEL AND TIRE ASSEMBLY, STEER AND DRIVE <b>Note:</b> Steer arms (items 3 and 4) may need to be modified or replaced when changing from 9-3/4" to 12" rim.	
			For use with " <b>Type 1</b> " steer/ drive axle:	
	3531220		on 12" (30 cm) rim, foam filled	2
	3517790		on 9-3/4" (25 cm) rim, liquid filled (obsolete, use 3531220)	2
	3518010		on 9-3/4" (25 cm) rim, foam filled (obsolete, use 3531220)	2
			For use with " <b>Type 2</b> " steer/ drive axle:	
	3529500		on 12" (30 cm) rim, air filled	2
	3529520		on 12" (30 cm) rim, liquid filled	2
	3529540		on 12" (30 cm) rim, foam filled	2
	3524730		on 9-3/4" (25 cm) rim, liquid filled (obsolete, use 3529520)	2
	3524740		on 9-3/4" (25 cm) rim, foam filled (obsolete, use 3529540)	2
10			WHEEL, STEER AND DRIVE For use with " <b>Type 1</b> " steer/ drive axle:	1
	02-038500		12" (30 cm) wide (Simon part # is stamped on rim)	1
	02-027100		9-3/4" (25 cm) wide (obsolete, use 02-038500)	1
			For use with " <b>Type 2</b> " steer/ drive axle:	
	02-038400		12" (30 cm) wide (Simon part # is stamped on rim)	1
	02-033000		9-3/4" (25 cm) wide (obsolete, use 02-038400)	1
11	02-025500		TIRE (18.5 x 44 - 16.5" LT, tubeless)	1

TITLE UNDERCARRIAGE ASSEMBLY, AT60C (PLATE 1 OF 2)

PLATE NO.	01.14	<b>SIMON AERIALS INC.</b>	REV. 11 AUG., 1993	PART NO. <b>A-A3517410</b>
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Art # A01.14001E

TITLE UNDERCARRIAGE ASSEMBLY, AT60C (PLATE 1 OF 2)

**SIMON AERIALS INC.**

REV. 11 AUG., 1993

PART NO. A-A3517410

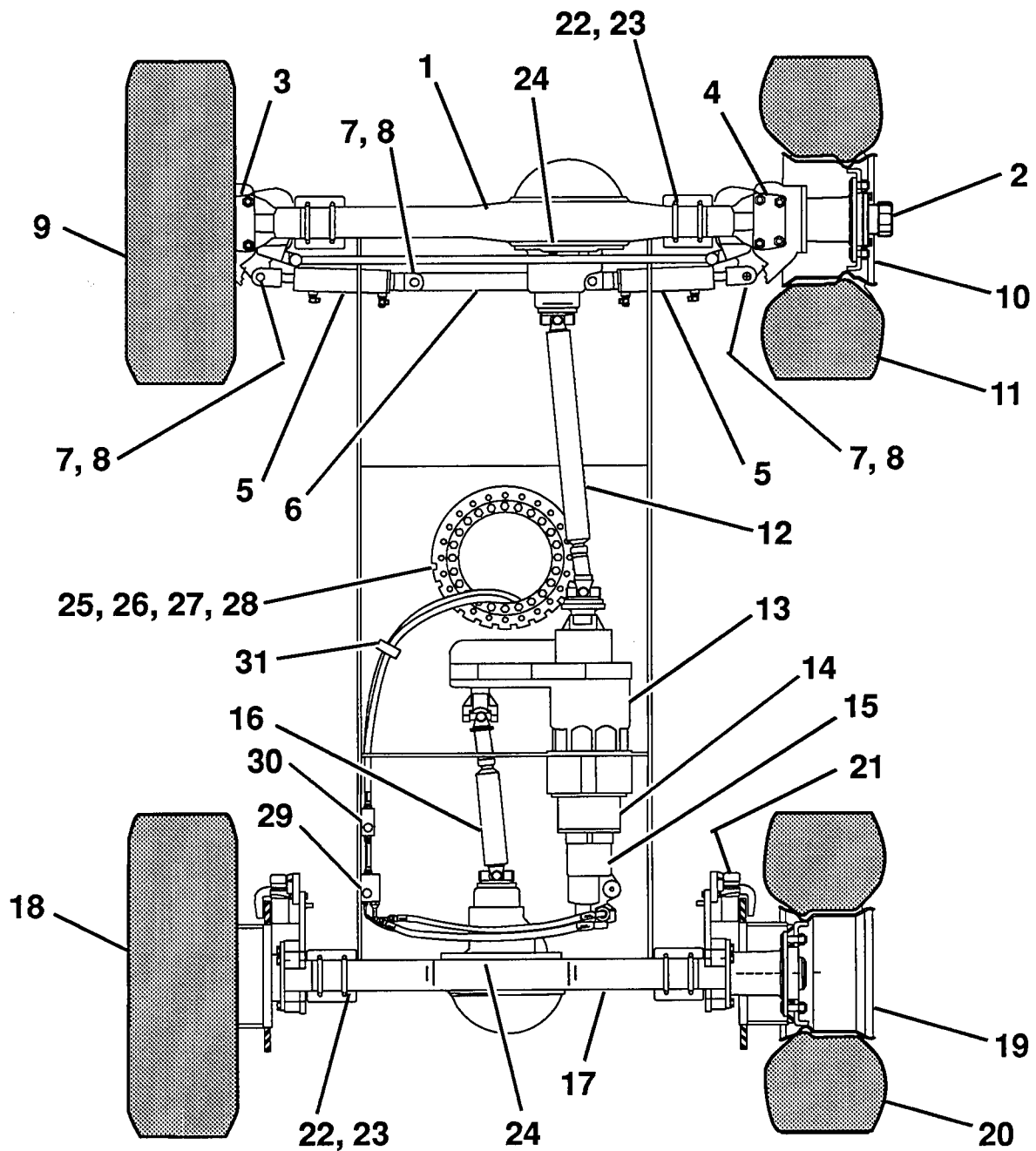
PLATE NO. 01.14

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
12	02-027700	20.05	DRIVE SHAFT, FRONT ( <b>Type 1</b> , for S/N Y1000 thru Y1045) Shaft mounts to Transfer Case with <b>U-bolts</b> .	1
	02-030200	20.07	DRIVE SHAFT, FRONT ( <b>Type 2</b> , for S/N Y1046 and up) With <b>flanged</b> mount to Transfer Case.	1
13	02-017700		TRANSFER CASE ( <b>Type 1</b> , for S/N Y1000 thru Y1045) with <b>U-bolt</b> front output yoke	1
	02-029800		TRANSFER CASE ( <b>Type 2</b> , for S/N Y1046 and up) with <b>flanged</b> front output yoke	1
14	02-029000	22.05	SPEED REDUCER, WITH BRAKE	1
15	01-088200	26.04	MOTOR, HYDRAULIC (Variable speed)	1
16	02-027800	20.06	DRIVE SHAFT, REAR	1
17	02-025200	19.03	AXLE ASSEMBLY, REAR (Drive)	1
18			WHEEL AND TIRE ASSY, DRIVE	
	3529510		on 12" (30 cm) rim, air filled	2
	3529530		on 12" (30 cm) rim, liquid filled	2
	3529550		on 12" (30 cm) rim, foam filled	2
	3517800		on 9-3/4" (25 cm) rim, liquid filled (obsolete, use 3529530)	2
	3518020		on 9-3/4" (25 cm) rim, foam filled (obsolete, use 3529550)	2
19			WHEEL, DRIVE	
	02-038300		12" (30 cm) wide (Simon part # is stamped on rim)	1
	02-027200		9-3/4" (25 cm) wide (obsolete, use 02-038300)	1
20	02-025500		TIRE (18.5 x 44 - 16.5" LT, tubeless)	1
21	02-029900	18.01	CALIPER ASSEMBLY, BRAKE	4
22	2149880		U-BOLT, MODIFIED	8
23	07-090125		NUT, FLANGED (3/4"-10, Grade 8)	16
24	02-022229		SEALANT, RTV (for axle center cover) (Ford # D6AZ 19562-ba or equivalent)	A.R.
25	08-065700		SWING BEARING (Threaded type)	1
26	07-004139		CAP SCREW, HEX HEAD (5/8"-11 x 5.0")	18
27	07-004129		CAP SCREW, HEX HEAD (5/8"-11 x 2.0")	23
28	07-061021		WASHER, FLAT (5/8" SAE)	41
29	01-088500		VALVE ASSEMBLY, CROSSOVER RELIEF (Hydrostatic valve. Includes crossover relief, hot oil shuttle, and relief valve cartridges.)	1
30			VALVE, CROSSOVER RELIEF except Deutz Diesel [3500 PSI (241 Bar) (246 Kg/ cm <sup>2</sup> )]	1
	01-224500		with Deutz Diesel [3800 PSI (262 Bar) (267 Kg/ cm <sup>2</sup> )]	1
31	01-224600		CLAMP, HOSE	1
	2097187			
			for models equipped with 360° continuous rotation option:	
32	2301580		MOUNT, SWIVEL	1
33	2301620		BRACKET, SWIVEL STOP	1

TITLE UNDERCARRIAGE ASSEMBLY, AT60C (PLATE 2 OF 2)

PLATE NO.	01.14	<b>SIMON AERIALS INC.</b>	REV. 11 AUG., 1993	PART NO. <b>A-A3517410</b>
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Art # A01.14001E

TITLE

UNDERCARRIAGE ASSEMBLY, AT60C (PLATE 2 OF 2)

**SIMON AERIALS INC.**

REV. 11 AUG., 1993

PART  
NO.

**A-A3517410**

PLATE  
NO.

**01.14**



## PARTS LIST

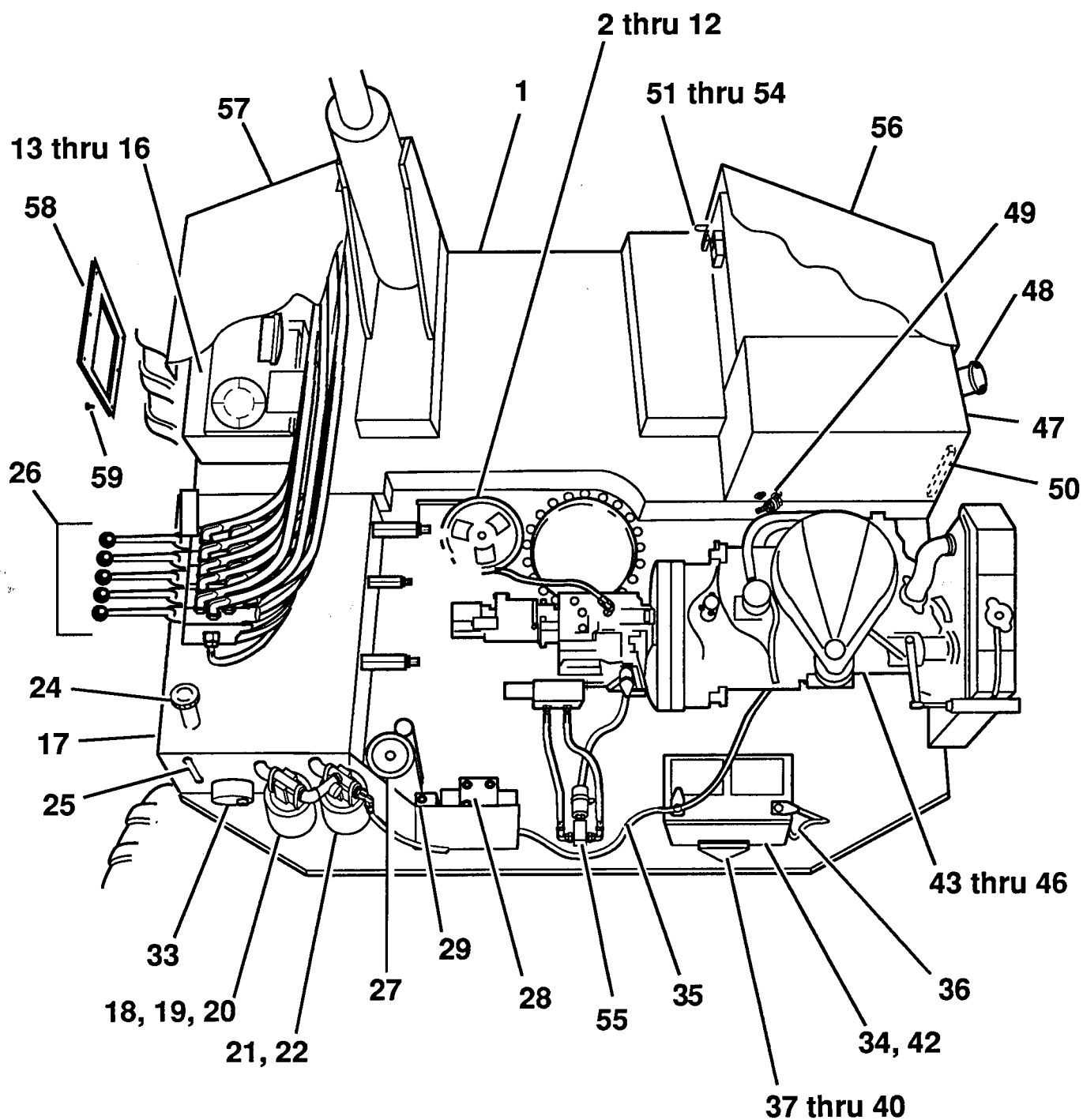
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2177900		SUPERSTRUCTURE WELDMENT (Ref.)	1
2	3515520		SPEED REDUCER ASSEMBLY	1
3	01-087500		MOTOR, HYDRAULIC	1
4	02-023500	28.02	SPEED REDUCER	1
5	06-048500		RUN TEE, MALE "O"-RING (6 R50X-S)	2
6	06-057500		NUT, TUBE (6 BTX-S) (option)	2
	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S) (option)	2
7	06-060100		REDUCER, TUBE END (6-4 TRTX-S)	2
8	06-090800		REDUCER/ EXPANDER (10-6 F50G5-S)	2
9	07-003089		CAP SCREW, HEX HEAD (1/2"-13 x 2", Grade 5)	2
10	07-065018		WASHER, HELICAL LOCK (1/2")	2
11	02-023600		RING, ECCENTRIC (Below Speed Reducer assy.)	1
12	2187700		KEEPER PLATE, ECCENTRIC	1
13	3518670	07.17	BOX ASSEMBLY, GROUND CONTROL (Gas or Dual fuel)	1
	3518630		BOX ASSEMBLY, GROUND CONTROL (w/ Diesel engine)	1
14	07-003003		SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	3
15	07-065014		WASHER, LOCK (1/4")	3
16	07-062014		WASHER, FLAT (1/4")	3
17	2145470		TANK, HYDRAULIC	1
18	01-219700		FILTER ASSEMBLY, RETURN LINE (Special for S/N CCA 01465)	1
	01-089100		FILTER ASSEMBLY, RETURN LINE (all other applications)	1
19	01-089101		INDICATOR, FILTER	1
20	01-089102		ELEMENT, FILTER (10 micron)	1
21	01-082000		FILTER ASSEMBLY, SUCTION LINE	1
22	01-082001		ELEMENT, FILTER (10 micron)	1
23	03-463600		HARNESS, HYDRAULIC MANIFOLD WIRE (not shown)	1
24	10-080200		CAP, HYDRAULIC TANK (Special for S/N CCA 01465)	1
	10-001800		CAP, HYDRAULIC TANK (all other applications)	1
25	10-032500		GAUGE, SIGHT (7")	1
26	01-086300	06.10	VALVE BANK ASSEMBLY, GROUND Type 1 (for S/N Y 1000 thru Y 1170). Note: On a "Type 1" assy., the brackets mounting the valve bank to the bosses on the tank are "L" shaped.	1
	01-098700	06.16	Type 2 (for S/N Y 1171 and up). Note: On a "Type 2" assy., the brackets mounting the valve bank to the bosses on the tank are flat.	1

TITLE SUPERSTRUCTURE ASSEMBLY, AT60C (PLATE 1 OF 3)

PLATE NO. 02.19 SIMON AERIALS INC.

REV. 31 AUG., 1993

PART NO.



TITLE

SUPERSTRUCTURE ASSEMBLY, AT60C (PLATE 1 OF 3)

**SIMON AERIALS INC.**

REV. 31 AUG., 1993

PART  
NO.

PLATE  
NO.

02.19



## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
27	01-027200	12.03	PUMP, EMERGENCY HYDRAULIC	1
28	01-086800	23.04	MANIFOLD ASSEMBLY, HYDRAULIC	1
29	01-093500		VALVE, BRAKE DELAY SOLENOID	1
30	03-463400		TIMER (not shown)	1
31	03-464800		HARNESS, BRAKE DELAY WIRE (not shown)	1
32	03-061800		DIODE (not shown)	1
33			HEATER, HYDRAULIC TANK (optional item)	1
34	03-010001		BATTERY (700 Amp) [replaces 03-408400 (550 Amp) battery.]	1
	03-497500		BATTERY ("Group 31" size, 650 Cold Cranking Amps) (Special for S/N CCA 01465)	1
35	03-458500		CABLE, BATTERY (Red, 58" long)	1
36	03-070100		CABLE, BATTERY (Black, 12" long)	1
37	03-064300		HOLD DOWN, BATTERY (for 700 Amp battery)	1
	03-415500		HOLD DOWN, BATTERY (for 550 Amp battery)	1
	03-497800		HOLD DOWN, BATTERY (for "Group 31" battery)	1
38	2018274		ROD, THREADED	2
39	07-060016		WASHER, FLAT (3/8" SAE)	2
40	07-040016		NUT, HEX (3/8"-16, Grade 5)	2
41	10-112900		PROTECTOR, BATTERY (1/8" x 7" x 11", neoprene)	1
42			COVER, BATTERY (Optional item)	1
43	3518410	08.13	ENGINE ASSEMBLY, GAS (Ford VSG-413, 50 HP)	1
	3520060		ENGINE ASSEMBLY, GAS (Ford LSG-423, 63 HP)	1
	3526090		ENGINE ASSEMBLY, GAS (Wisconsin V-465D, 65 HP)	1
	3517830	08.13	ENGINE ASSEMBLY, DUAL FUEL (Ford VSG-413, 50 HP)	1
	3520070		ENGINE ASSEMBLY, DUAL FUEL (Ford LSG-423, 63 HP)	1
	3520090		ENGINE ASSEMBLY, DUAL FUEL (Wisc. V-465D, 65 HP)	1
	3518710	08.14	ENGINE ASSEMBLY, DIESEL (Deutz F2L 511, 35 HP)	1
	3520100		ENGINE ASSEMBLY, DIESEL (Deutz F3L 1011, 42 HP)	1
	3520110		ENGINE ASSEMBLY, DIESEL (Perkins 104.19, 43 HP)	1
	3522170		ENGINE ASSEMBLY, DIESEL (Isuzu C-240, 53 HP)	1
			ENGINE ASSEMBLY, DIESEL (Kubota V1902-B2)	1
44			BOLT	4
45			WASHER, FLAT	4
46			NUT, LOCK	4
47	3517820		TANK ASSEMBLY, FUEL (with Gas or Dual fuel engine)	1
	3518850		TANK ASSEMBLY, FUEL (with Diesel engine)	1
48	10-001900		CAP, FUEL (vented)	1
49	01-032800		VALVE, SHUT OFF (1/4" NPT)	1
50	10-033800		GAUGE, SIGHT (14")	1

TITLE SUPERSTRUCTURE ASSEMBLY, AT60C (PLATE 2 OF 3)

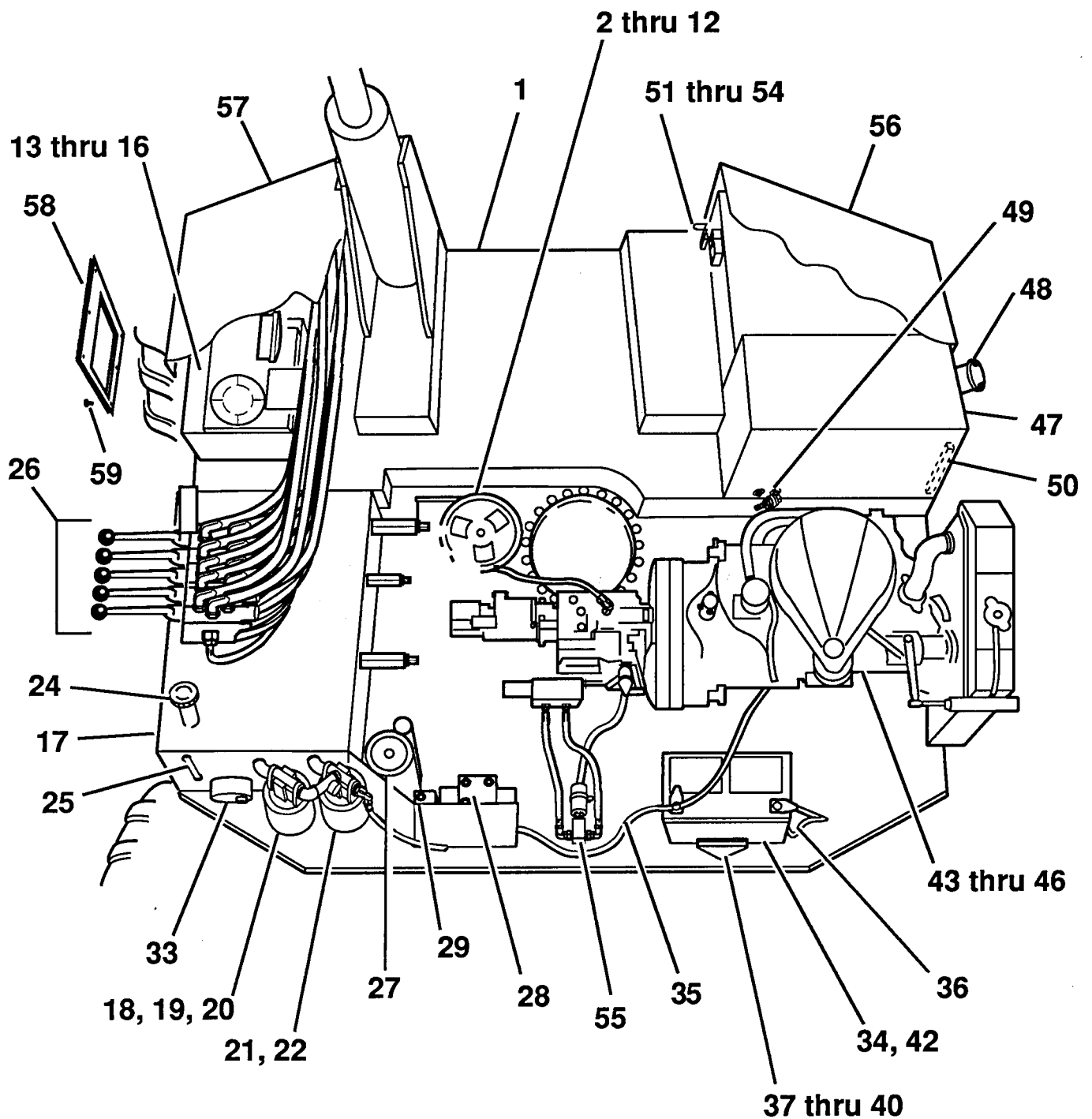
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02.19

**SIMON AERIALS INC.**

REV. 31 AUG., 1993

PART NO.



TITLE

SUPERSTRUCTURE ASSEMBLY, AT60C (PLATE 2 OF 3)

**SIMON AERIALS INC.**

REV. 31 AUG., 1993

PART  
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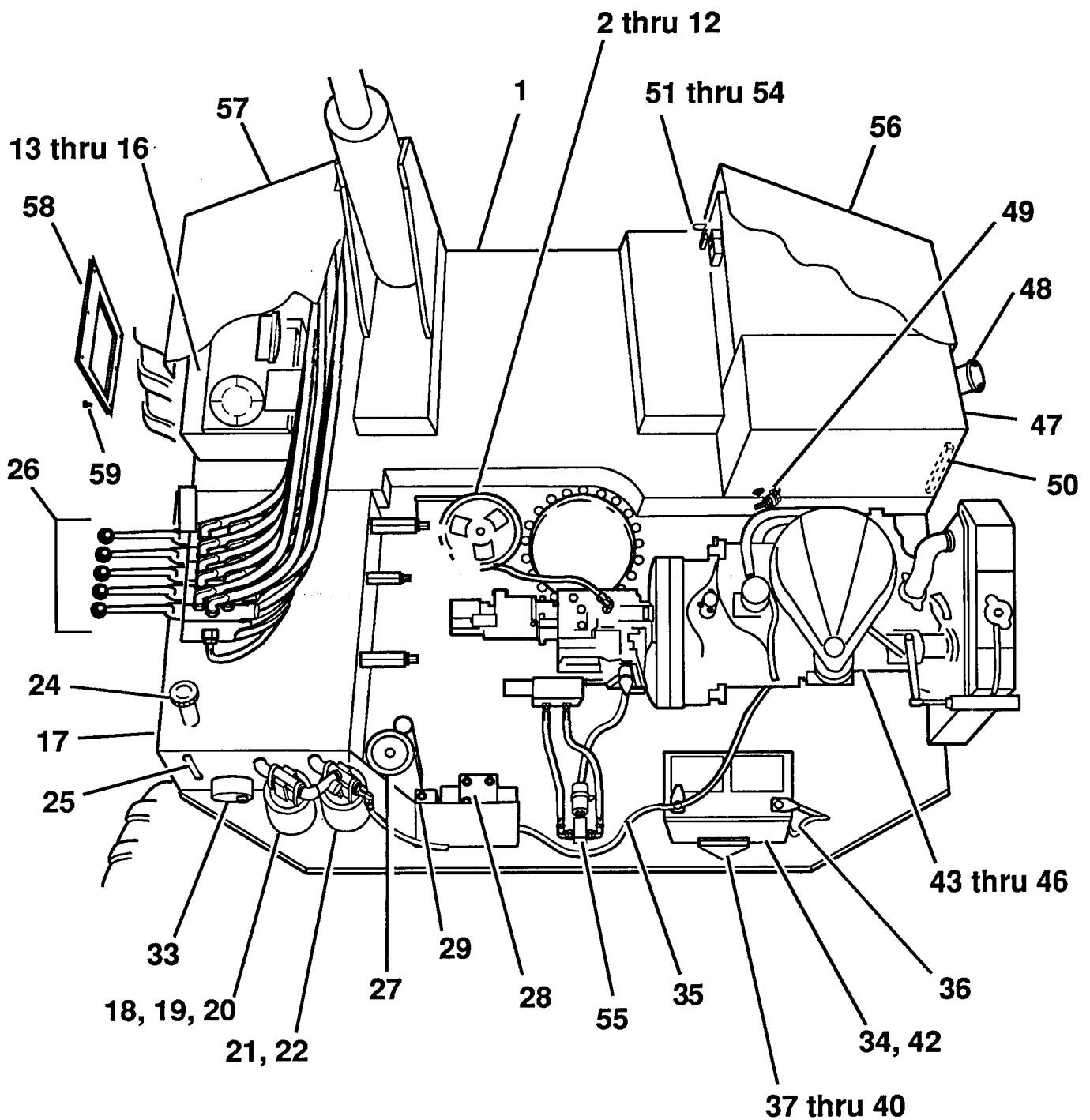
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PLATE NO.	02.19	SIMON AERIALS INC.
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PART  
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TITLE

SUPERSTRUCTURE ASSEMBLY, AT60C (PLATE 3 OF 3)

**SIMON AERIALS INC.**

REV. 31 AUG., 1993

PART  
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PLATE  
NO.

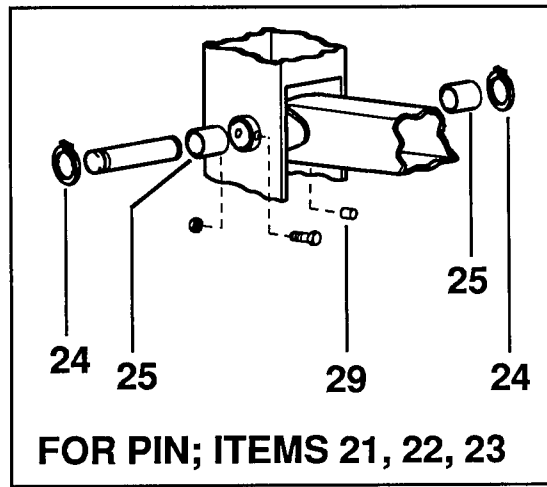
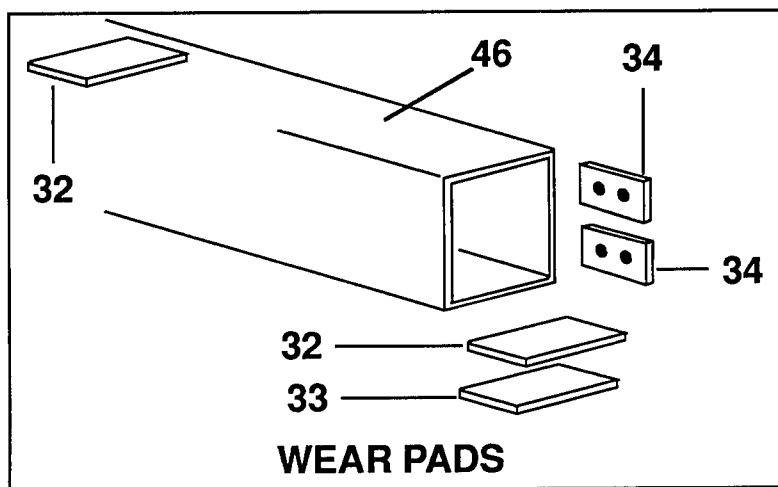
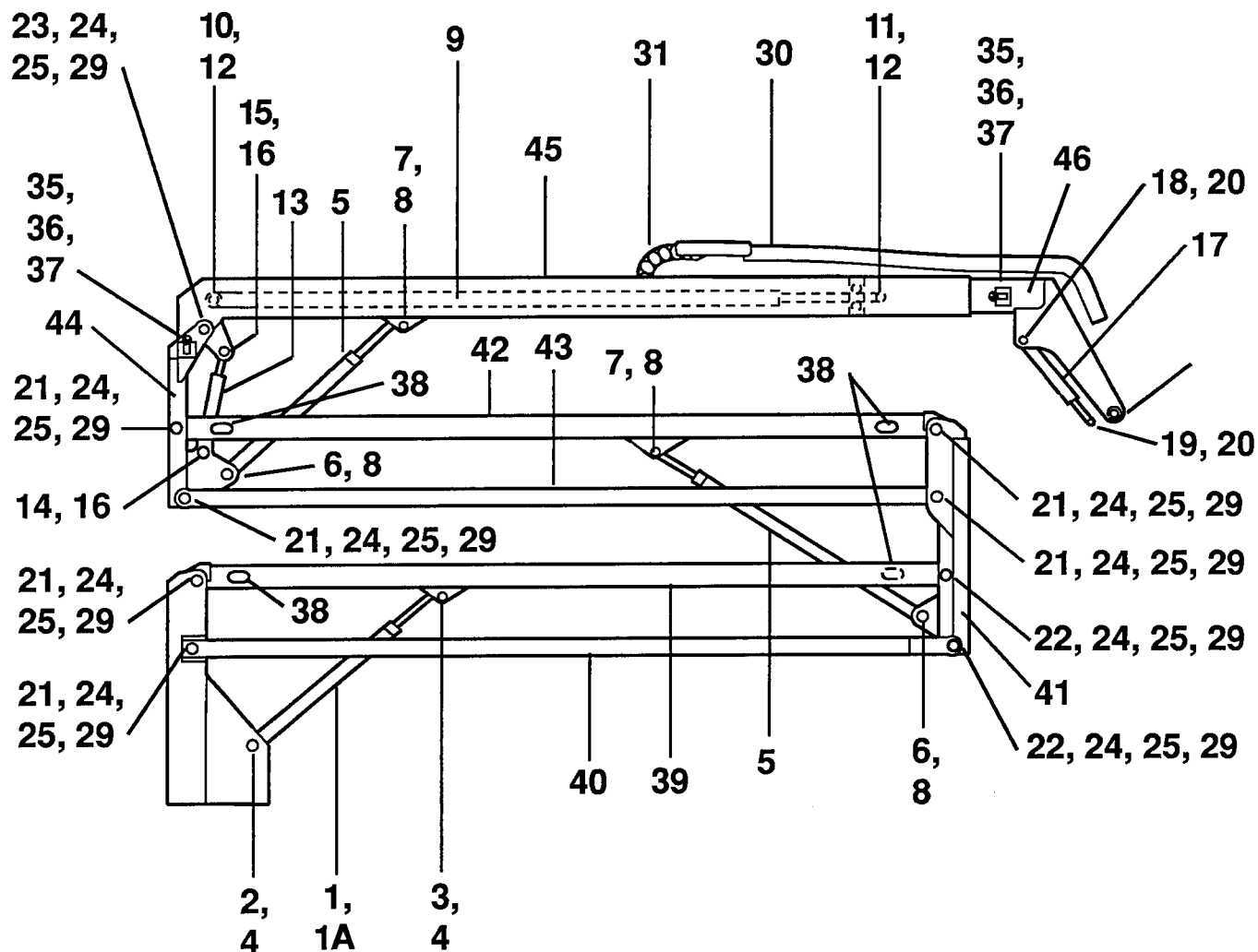
02.19

# PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	04-029800	11.16	CYLINDER, LIFT (Type 1, for Lower Boom) <b>Note:</b> When installing a "Type 1" Lower Boom Lift Cylinder on a unit powered by a <b>Ford LSG-423</b> engine, a Spacer Nut, item 1A, <b>must be used.</b>	1
	04-032900	11.16	CYLINDER, LIFT (Type 2, for Lower Boom) <b>Note:</b> When installing a "Type 2" Lower Boom Lift Cylinder on a unit powered by a <b>Ford LSG-423</b> engine mounted <b>directly to the deck plate</b> (with no separate engine mounting plate), a Spacer Nut, item 1B, <b>must be used.</b>	1
1A	2160240		NUT, SPACER (for "Type 1" Lift Cylinder)	1
1B	2173350		NUT, SPACER (for "Type 2" Lift Cylinder)	1
2	2144940		PIN, 1-3/4" x 9-1/32" (for lower Lift Cylinder, base end)	1
3	2149970		PIN, 1-3/4" x 7-5/8" (for lower Lift Cylinder, rod end)	1
4	08-041000		RING, RETAINING (1-3/4" I.D.)	4
5	See Plate . .	11.15	CYLINDER, LIFT (for Mid and Upper Boom)	2
6	2144610		PIN, 1-1/2" x 7-15/32" (Mid and upper Lift Cylinder, base end)	2
7	2144620		PIN, 1-1/2" x 5-15/32" (Mid and upper Lift Cylinder, rod end)	2
8	08-040900		RING, RETAINING (1-1/2" I.D.)	4
9	See Plate . .	11.14	CYLINDER, TELESCOPE (Extend)	1
10	2138960		PIN, 1-1/4" x 9-3/8" (for Telescope Cylinder, base end)	1
11	2139020		PIN, 1-1/4" x 4-7/8" (for Telescope Cylinder, rod end)	1
12	08-040700		RING, RETAINING (1-1/4" I.D.)	4
13	See Plate . .	11.06	CYLINDER, MASTER LEVELING	1
14	2151740		PIN, 1-1/4" x 7-7/16" (for Master Leveling Cylinder, base end)	1
15	2139010		PIN, 1-1/4" x 5-7/16" (for Master Leveling Cylinder, rod end)	1
16	08-040700		RING, RETAINING (1-1/4" I.D.)	4
17	See Plate . .	11.07	CYLINDER, SLAVE LEVELING	1
18	2138990		PIN, 1-1/4" x 7-3/16" (for Slave Leveling Cylinder, base end)	1
19	2138980		PIN, 1-1/4" x 8" (for Slave Leveling Cylinder, rod end)	1
20	08-040700		RING, RETAINING (1-1/4" I.D.)	4
21	2138930		PIN, PIVOT (2" x 10-15/16")	6
22	2138940		PIN, PIVOT (2" x 10-7/16")	2
23	2154350		PIN, PIVOT (2" x 12-13/16")	1
24	08-041100		RING, RETAINING (2" I.D.)	18
25	08-064000		BUSHING, BRONZE (2" I.D.)	18
26	2138950		PIN, PIVOT (1-1/4" x 9-5/8")	1
27	08-040700		RING, RETAINING (1-1/4" I.D.)	2
28	08-002200		BEARING, FLANGED (1-1/4" I.D.)	2
29	08-050000		FITTING, GREASE (1/8", straight)	A.R.
	08-051300		FITTING, GREASE (1/8", 90°)	A.R.
30	2151500		ANCHOR, MOVING	1
31	08-065600		CARRIER, HOSE (19 link, 5.2" radius)	1

TITLE BOOM ASSEMBLY, AT60C (PLATE 1 OF 2)

PLATE NO. 03.11 SIMON AERIALS INC. REV. 11/07/90 PART NO. A-C3517470



TITLE

BOOM ASSEMBLY, AT60C (PLATE 1 OF 2)

**SIMON AERIALS INC.**

REV. 11/07/90

PART  
NO.

A-C3517470

PLATE  
NO.

03.11

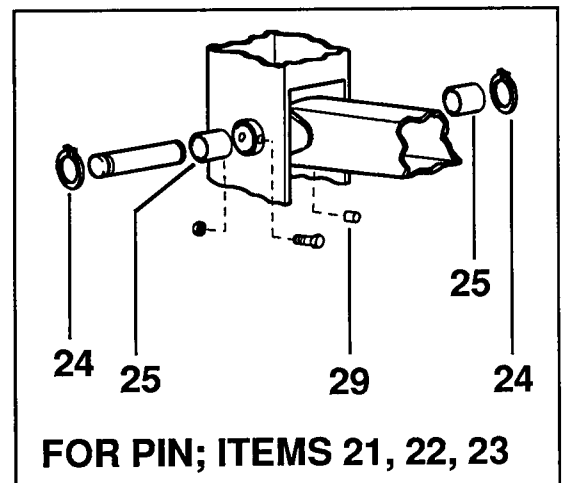
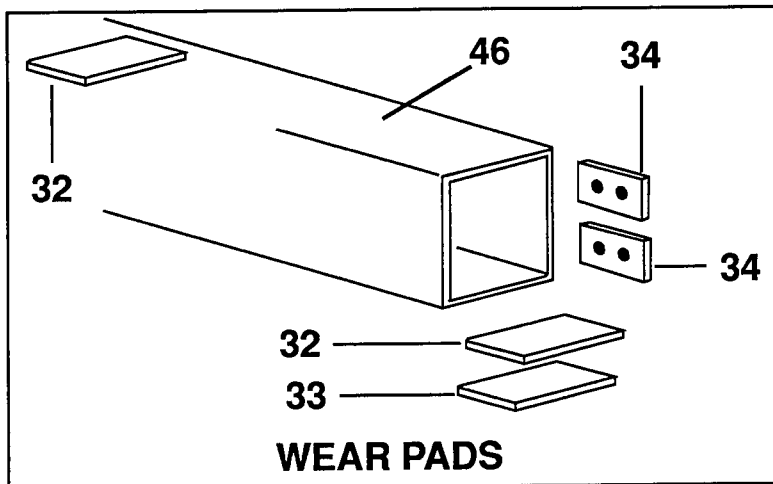
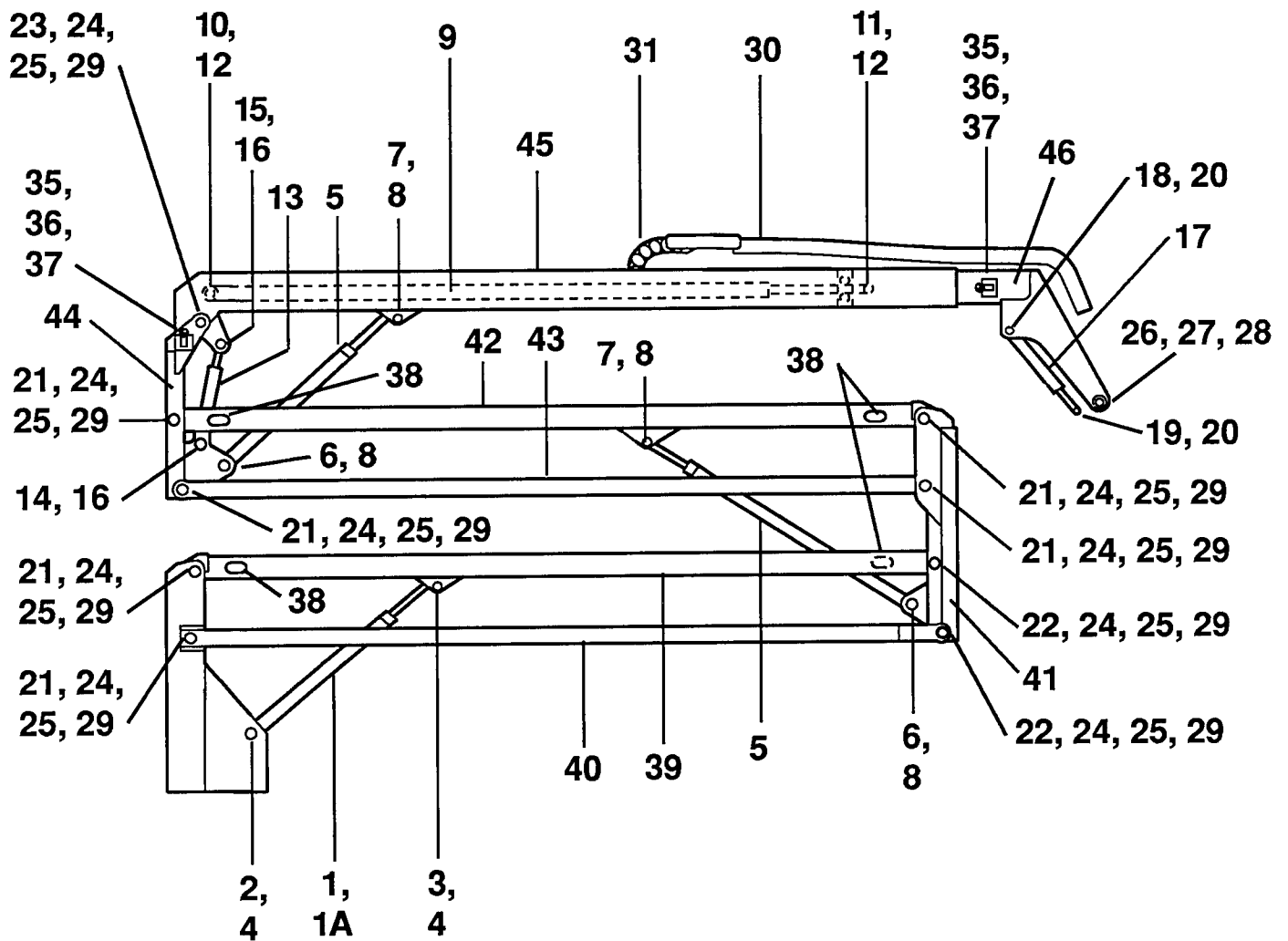


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BOOM ASSEMBLY, AT60C (PLATE 2 OF 2)

REV. 11/07/90

PART NO. A-C3517470



TITLE

BOOM ASSEMBLY, AT60C (PLATE 2 OF 2)

**SIMON AERIALS INC.**

REV. 11/07/90

PART NO. **A-C3517470**

PLATE NO.

**03.11**

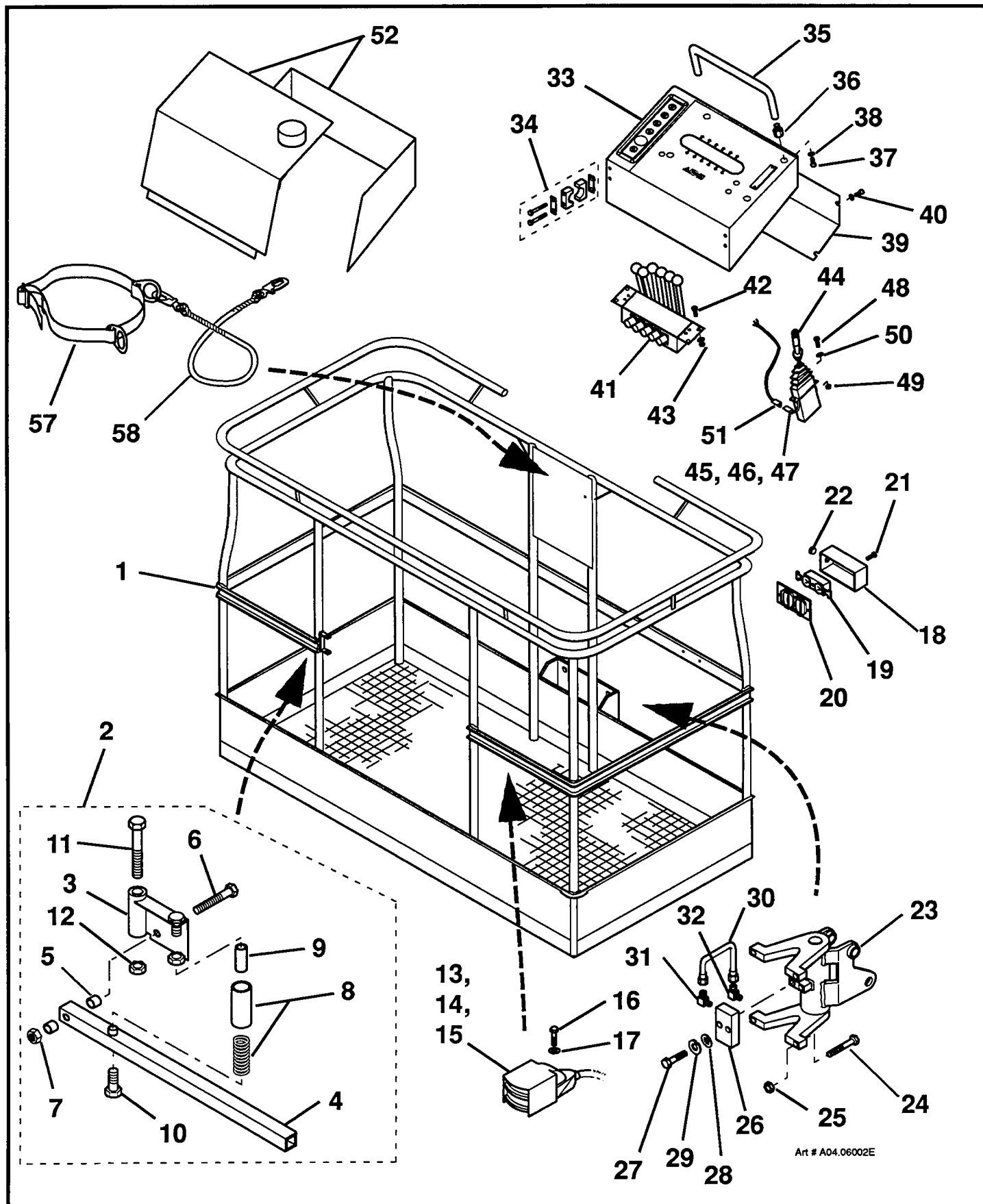


## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2140290		PLATFORM WELDMENT	1
2	3514160		BAR ASSEMBLY, LATCH	1
3	2041724		PIVOT, DOOR	1
4	2076577		BAR, LATCH	1
5	2041649		SPACER, LATCH BAR PIVOT	1
6	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	1
7	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	1
8	08-010100		SPRING AND TUBE ASSEMBLY	1
9	2108380		SPACER	1
10	07-003043		CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5)	1
11	07-003096		CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5)	1
12	07-050018		NUT, LOCK (1/2"-13, Grade 5)	1
13	03-027900		SWITCH ASSEMBLY, FOOT (Double pole)	1
14	03-027901		SWITCH (Double pole, double throw)	1
15	03-021302		COVER, SWITCH (Guard type, with latch)	1
16	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	2
17	07-065014		WASHER, HELICAL LOCK (1/4")	2
18	03-062100		BOX, DUPLEX OUTLET	1
19	03-067000		OUTLET, DUPLEX (110 Volt AC)	1
20	03-062200		COVER, DUPLEX OUTLET	1
21	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	2
22	03-063300		GRIP, CORD (1/2", Sealing)	1
23	02-023700	21.02	ACTUATOR, ROTARY	1
24	07-004092		CAP SCREW, HEX HEAD (1/2"-13 x 2-3/4", Grade 8)	4
25	07-058400		NUT, LOCK (1/2"-13, Grade 8)	4
26	01-001900		VALVE, CHECK (Pilot operated) (no cartridges protrude from block)	1
	01-202000		VALVE, PRESSURE RELIEF (two cartridges protrude from side of block)	1
27	07-003049		CAP SCREW, HEX HEAD (3/8"-16 x 2", Grade 5)	2
28	07-062016		WASHER, FLAT (3/8")	2
29	07-065016		WASHER, HELICAL LOCK (3/8")	2
30	2144710		TUBE ASSEMBLY, HYDRAULIC ROTATOR	2
31	06-044300		90° ELBOW, STRAIGHT THREAD (4 C50X-S)	2
32	06-044400		90° ELBOW, STRAIGHT THREAD (4-6 C50X-S)	2

TITLE PLATFORM ASSEMBLY (PLATE 1 OF 2)

PLATE NO.	04.12	<b>SIMON AERIALS INC.</b>	REV. 02 SEP., 1993	PART NO.	3517460
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TITLE

PLATFORM ASSEMBLY (PLATE 1 OF 2)

**SIMON AERIALS INC.**

REV. 02 SEP., 1993

PART  
NO.

3517460

PLATE  
NO.

04.12

# PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
33	2140350		CONSOLE WELDMENT, CONTROL	1
34	10-069600		CLAMP, TUBE (1-1/4")	2
35	2133020		BAR, GRAB [4-1/2" (114 mm) high] (earlier models)	2
	2133020		BAR, GRAB [4-1/2" (114 mm) high] (later models)	1
	2175060		BAR, GRAB [8-1/2" (216 mm) high] (later models)	1
36	2114330		PLUG (Modified 12 PNTX)	4
37	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	4
38	07-065018		WASHER, HELICAL LOCK (1/2")	4
39	2140390		COVER, CONTROL CONSOLE (Rear)	1
40	07-029365		SCREW, HEX WASHER HEAD (#12 x 1", Self drilling, with rubber seal)	6
41	2162790	06.10	VALVE BANK ASSEMBLY, PLATFORM (Type 1, for S/N Y1000 thru Y1170) <b>Note:</b> On a "Type 1" assembly, the brackets mounting the valve bank to the platform control console are <b>"L" shaped.</b>	1
	01-098900	06.17	VALVE BANK ASSEMBLY, PLATFORM (Type 2, for S/N Y1171 and up) <b>Note:</b> On a "Type 2" assembly, the brackets mounting the valve bank to the platform control console are <b>flat.</b>	1
42	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	4
43	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
44	01-083400	29.05	VALVE, DRIVE CONTROLLER	1
45	03-451100		CONNECTOR, MALE (3 Conductor)	1
46	03-451000		SOCKET, TERMINAL	3
47	03-457100		WEDGE, CONNECTOR (3 Pin)	1
48	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	2
49	07-050014		NUT, STOP (1/4"-20, Grade 5)	2
50	07-062014		WASHER, FLAT (1/4")	2
51	03-459700		HARNESS, STEERING WIRE	1
52	2172380		COVER, CONTROL CONSOLE (Hinged metal) (option)	1
	10-116900		COVER, CONTROL CONSOLE (Vinyl cloth) (option)	1
53	10-163800		STUD, BUTTON SNAP (Stainless steel) (for vinyl cover)	A.R.
54	07-099300		RIVET, BLIND (Stainless steel) (for vinyl cover)	A.R.
55	03-038800		LAMP, CONTROL PANEL (hooded) (option, not shown)	2
56	03-418600		BULB, PANEL LAMP (#68)	2
57	10-034000		BELT, SAFETY	1
58	10-033900		LANYARD, SAFETY BELT	1
59	11-085200		BOX, TECHNICAL MANUAL STORAGE (not shown)	1
60	07-029365		SCREW, HEX WASHER HEAD (#12 x 1", Self drilling, with rubber seal)	A.R.

TITLE

PLATFORM ASSEMBLY (PLATE 2 OF 2)

PLATE NO.

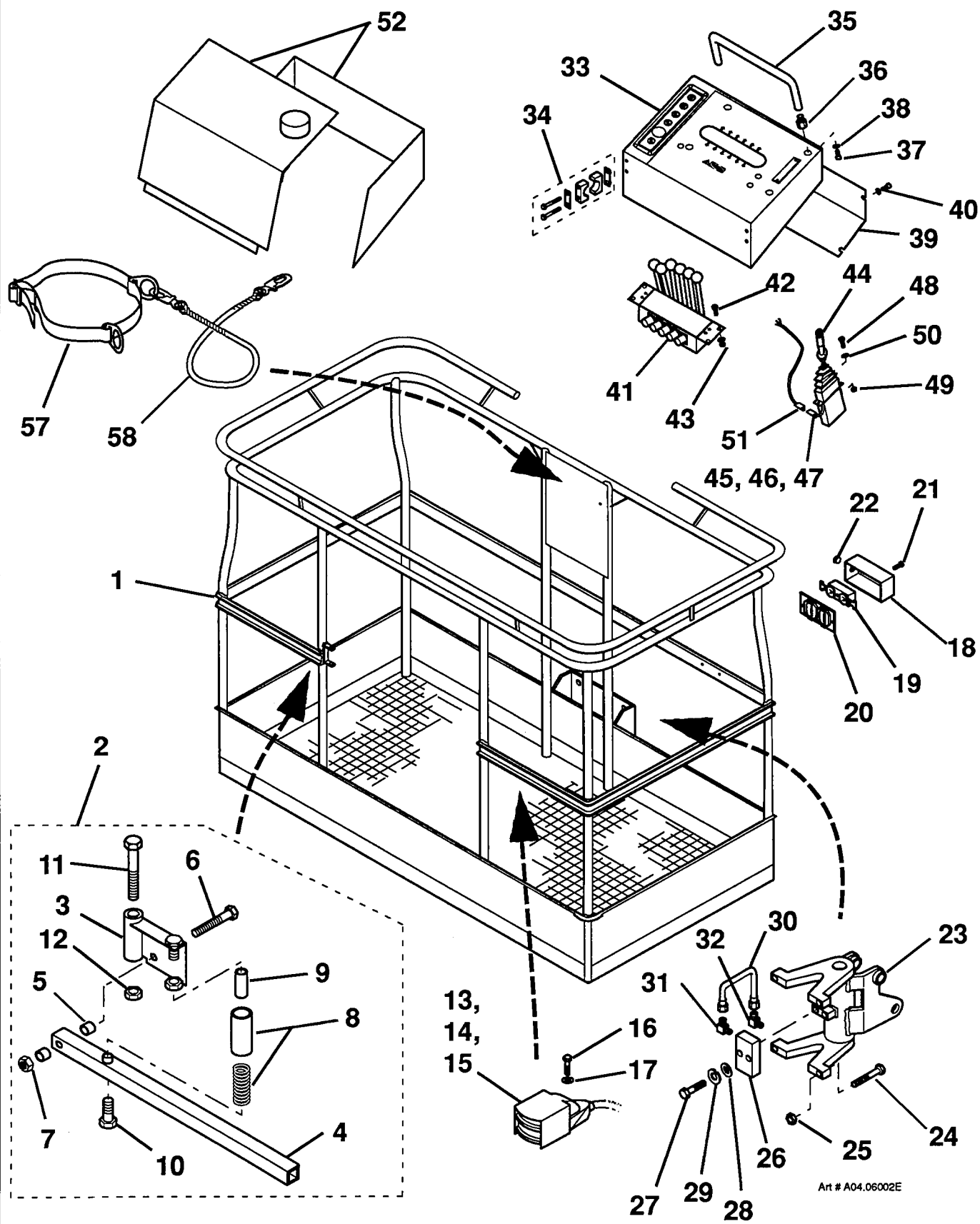
04.12

SIMON AERIALS INC.

REV. 02 SEP., 1993

PART NO.

3517460



TITLE

PLATFORM ASSEMBLY (PLATE 2 OF 2)

**SIMON AERIALS INC.**

REV. 02 SEP., 1993

PART  
NO.

3517460

PLATE  
NO.

04.12

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## PLATFORM SENSOR RING ASSEMBLY

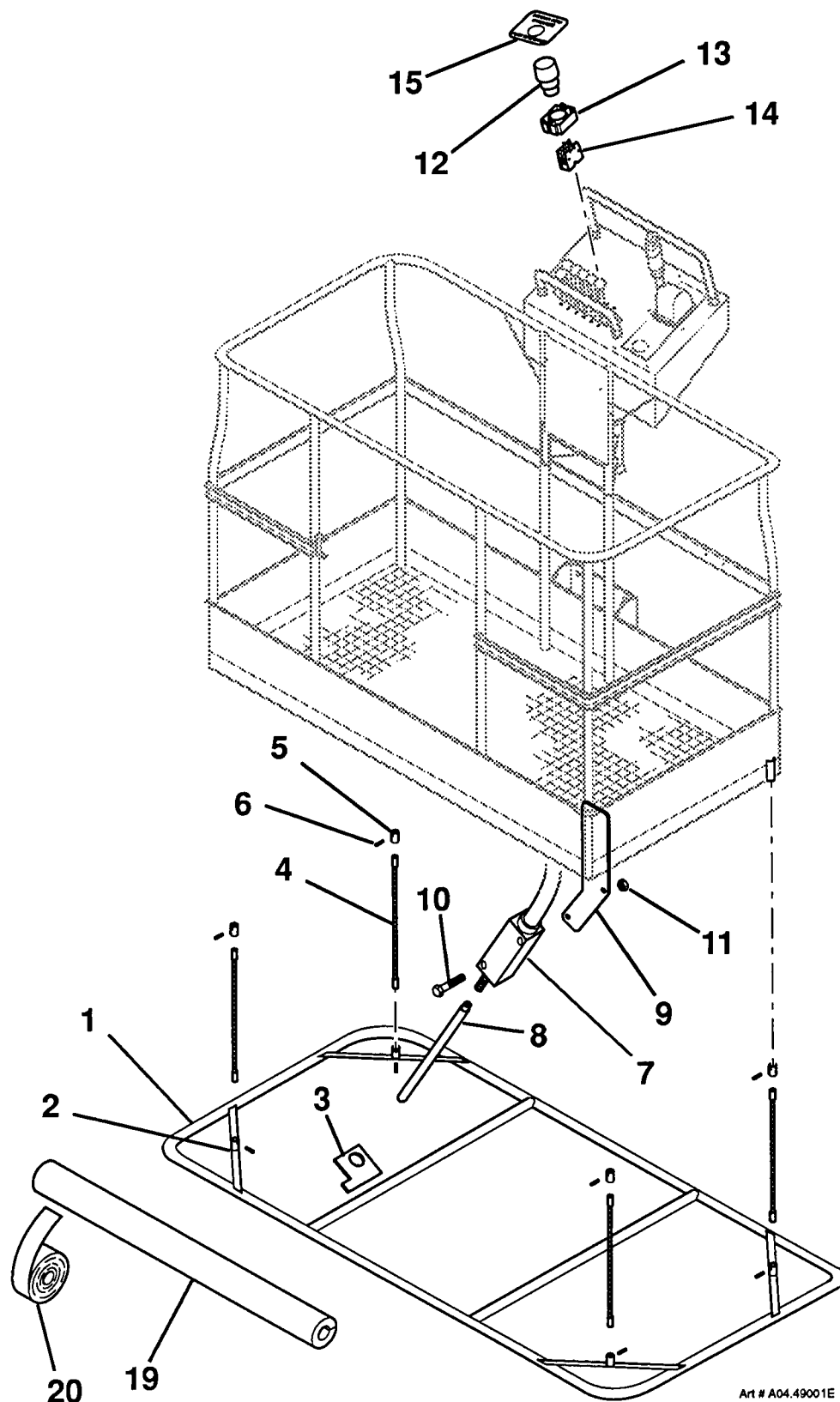
04.48

**SIMON AERIALS INC.**

NEW 13 OCT., 1992

PART  
NO.

3522230



Art # A04.49001E

TITLE

PLATFORM SENSOR RING ASSEMBLY

**SIMON AERIALS INC.**

NEW 13 OCT., 1992

PART  
NO.

**3522230**

PLATE  
NO.

**04.48**



## PARTS LIST

[illegible]

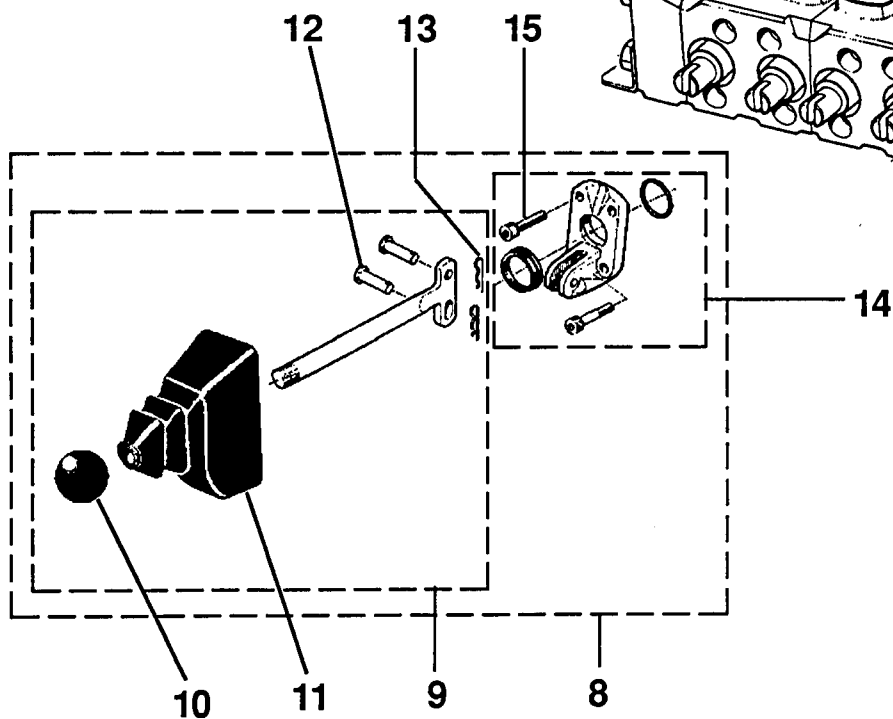
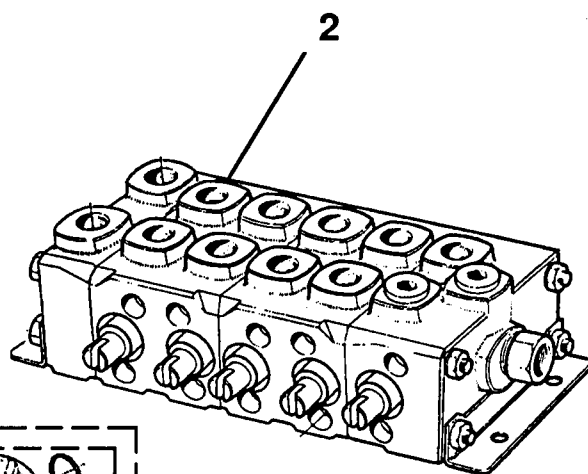
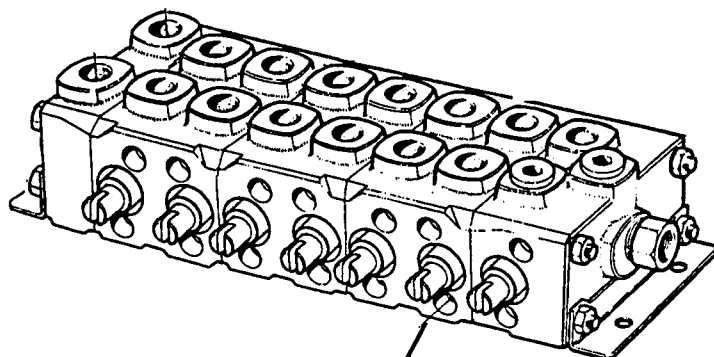
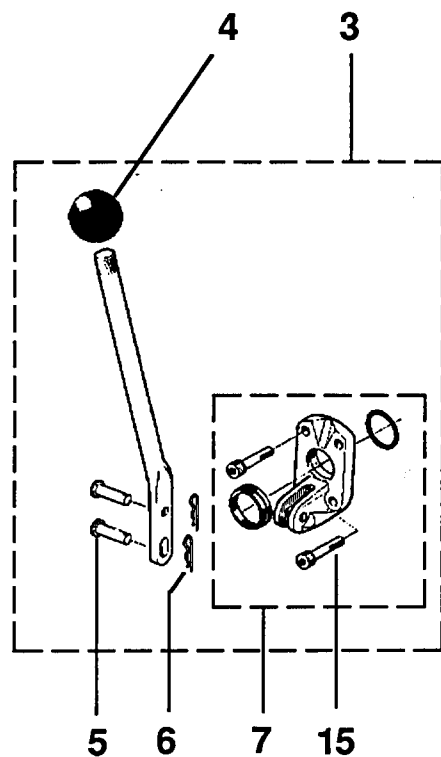
TITLE GROUND/ PLATFORM VALVE BANK ASS'Y., AT60C (PLATE 1 OF 2)

PLATE NO. 6.10

## SIMON AERIALS INC.

REV. 03 SEP., 1993  
THIS SHEET ONLY

**PART  
NO.**



TITLE

GROUND/ PLATFORM VALVE BANK ASS'Y., AT60C (PLATE 1 OF 2)

**SIMON AERIALS INC.**

PART  
NO.

PLATE  
NO. 6.10



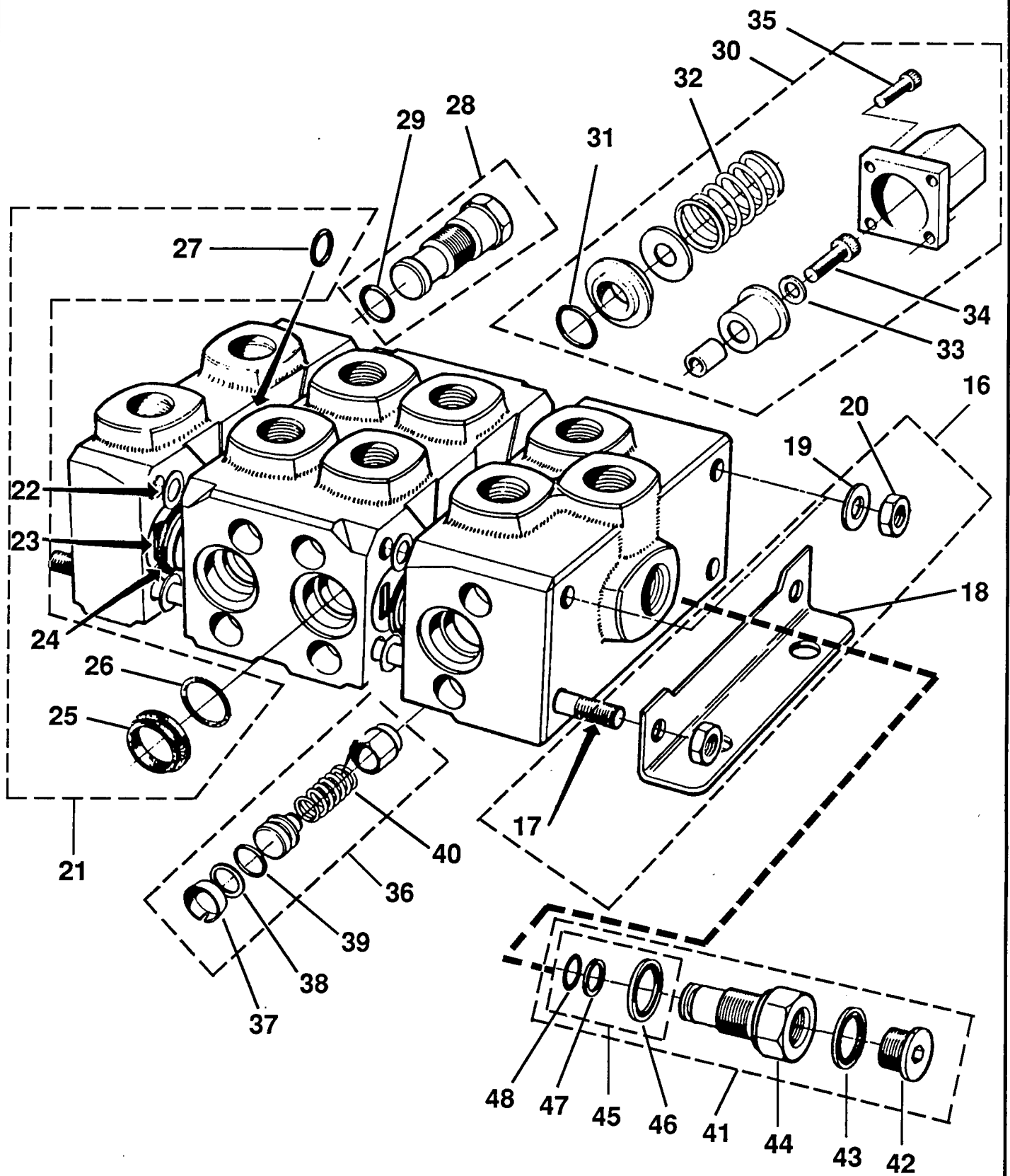
## PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
16	01-072713		TIE ROD KIT (FOR 7 SECTION UNIT) (PLATFORM ONLY)	1
	01-072706		TIE ROD KIT (FOR 5 SECTION UNIT) (GROUND ONLY)	1
17			PLATE, VALVE BLOCK MOUNTING	1
18			ROD, TIE (FOR 7 SECTION VALVE BANK)	4
			ROD, TIE (FOR 5 SECTION VALVE BANK)	4
19			WASHER	8
20			NUT	8
21	01-072709		SEAL KIT	1
22			RING, SPACER	
23			O-RING	
24			RING, BACK-UP	
25			SEAL	
26			O-RING	
27			O-RING	
28			PLUG	1
29			O-RING	1
30	01-072710		CAP ASSEMBLY, VALVE SPRING	AR
31			O-RING	1
32			SPRING	1
33			WASHER	1
34			SCREW	1
35			SCREW	4
36	01-072704		VALVE, CHECK	AR
37			CAP, PROTECTIVE	1
38			RING, BACK-UP	1
39			O-RING	1
40			SPRING	1
41	01-072711		CONNECTION PORT, BLOCKING	
42			PLUG	1
43			RING, SEALING	1
44			SLEEVE, POWER BEYOND (GROUND ONLY)	1
45	01-072708		CONNECTION PORT, TANK VALVE	
46			RING, SEALING	1
47			RING, BACK-UP	1
48			O-RING	1

TITLE GROUND/ PLATFORM VALVE BANK ASS'Y., AT60C (PLATE 2 OF 2)

PLATE NO. 6.10 **SIMON AERIALS INC.**

PART NO.



TITLE GROUND/ PLATFORM VALVE BANK ASS'Y., AT60C (PLATE 2 OF 2)

**SIMON AERIALS INC.**

PART  
NO.

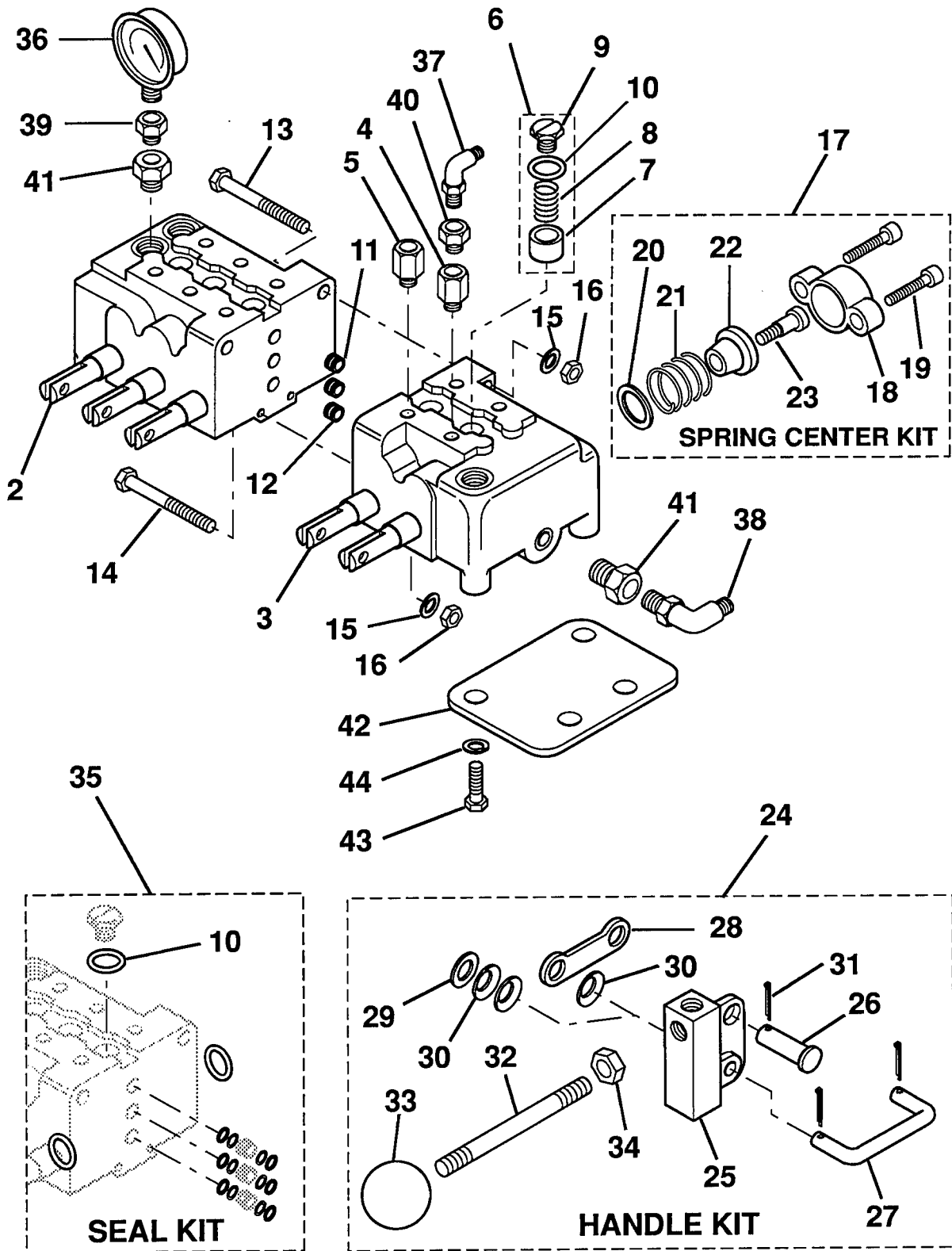
PLATE  
NO. 6.10

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-098700		VALVE BANK ASSEMBLY, GROUND CONTROL (5 Spool)	1
2	01-098602		INLET SECTION, 3 SPOOL	1
3	01-098404		OUTLET SECTION, 2 SPOOL	1
4	01-098702		VALVE ASSY., FLOW CONTROL (7.5 L per minute, pressure compensated)	1
5	01-098703		VALVE ASSY., FLOW CONTROL (10 L per minute, pressure compensated)	2
6			VALVE KIT, LOAD CHECK	5
7			POPPET, LOAD CHECK	1
8			SPRING	1
9			PLUG, HEX HEAD	1
10			O-RING (also part of Seal Kit, item 34)	1
11			TUBE ASSEMBLY, FEEDER (11/16" O.D.)	1
12			TUBE ASSEMBLY, FEEDER (3/4" O.D.)	2
13			BOLT, HEX HEAD (1/4"-20 x 2-1/4", Grade 5)	2
14			BOLT, HEX HEAD (1/4"-20 x 3", Grade 5)	2
15			WASHER, SPLIT LOCK (1/4")	4
16			NUT, HEX (1/4"-20, Grade 5)	4
17			SPRING CENTER KIT	5
18			CAP, END	1
19			SCREW	2
20			WASHER	1
21			SPRING, RETURN	1
22			SPACER	1
23			BOLT, SHOULDER	1
24	01-098701		HANDLE KIT (3" handle)	5
25	01-098402		BLOCK, PIVOT	1
26	01-098403		PIN, CLEVIS	1
27	01-098413		C-HOOK	1
28	01-098414		LINK (for spools 1, 2 and 5 only)	1
29	01-098411		WASHER, FLAT (for spools 3 and 4 only)	1
30	01-098409		WASHER, SPRING (for spools 1, 2 and 5 only)	1
	01-098409		WASHER, SPRING (for spools 3 and 4)	2
31	01-098412		PIN, COTTER	3
32	01-098406		ROD, HANDLE (3")	1
33	01-098407		KNOB, BALL (Plastic)	1
34	01-098408		NUT, JAM	1
35	01-098601		SEAL KIT (5 Spool)	1

TITLE GROUND VALVE BANK ASSEMBLY, 5 SPOOL (PLATE 1 OF 2)

PLATE NO. 06.16	<b>SIMON AERIALS INC.</b>	REV. 11/07/90	PART NO. 3518590
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TITLE GROUND VALVE BANK ASSEMBLY, 5 SPOOL (PLATE 1 OF 2)

**SIMON AERIALS INC.**

REV. 11/07/90

PART  
NO.

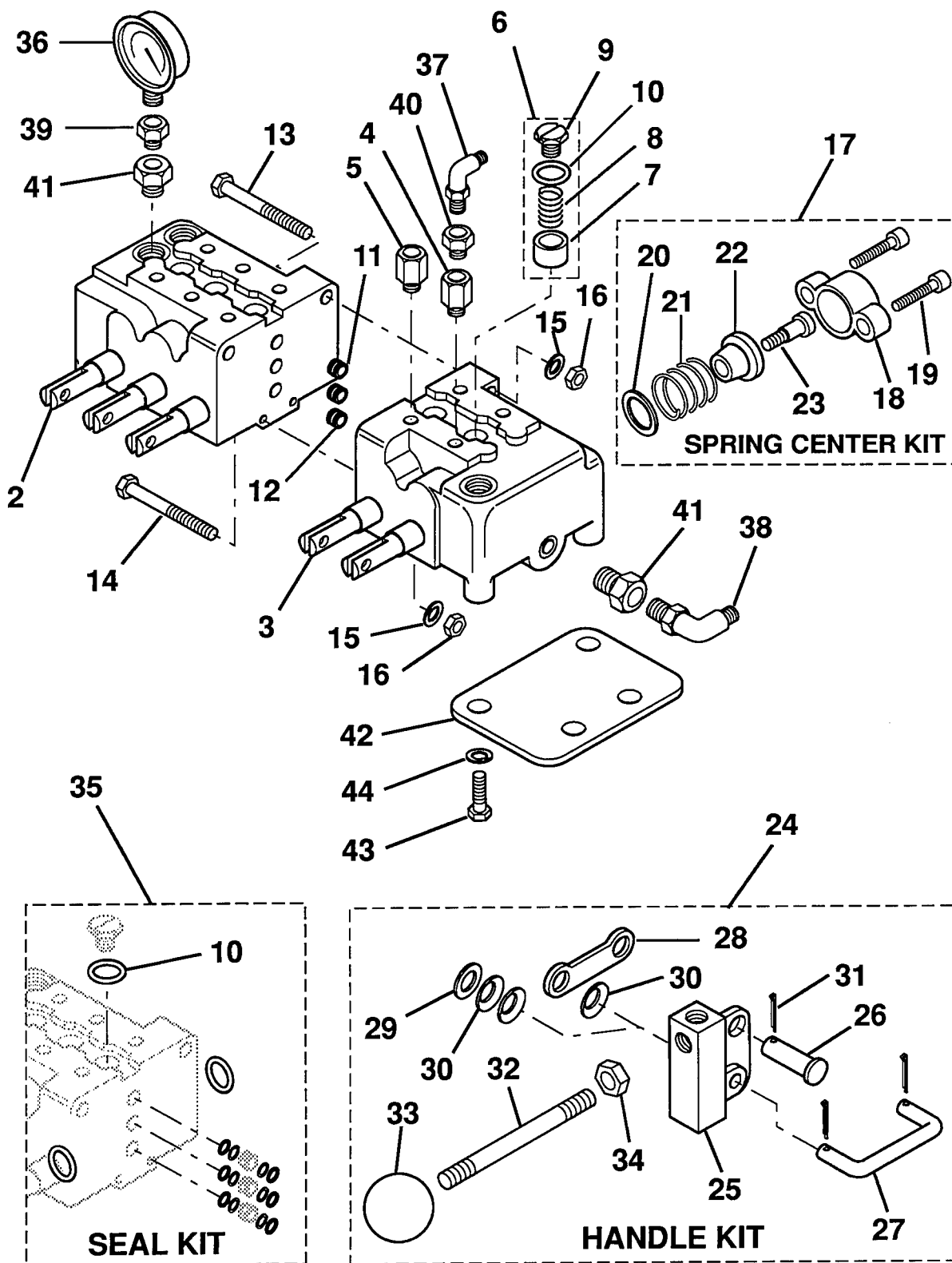
3518590

PLATE  
NO.

06.16

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PLATE NO.	06.16	<b>SIMON AERIALS INC.</b>	REV. 11/07/90	PART NO.	3518590
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TITLE GROUND VALVE BANK ASSEMBLY, 5 SPOOL (PLATE 2 OF 2)

**SIMON AERIALS INC.**

REV. 11/07/90

PART  
NO.

3518590

PLATE  
NO.

06.16



## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-098900		VALVE BANK ASS'Y., PLATFORM CONTROL (7 Spool)	1
2	01-098505		INLET SECTION, 3 SPOOL	1
3	01-098802		CENTER SECTION, SINGLE SPOOL	1
4	01-098803		OUTLET SECTION, 3 SPOOL	1
5	01-098702		VALVE ASSY., FLOW CONTROL (7.5 L per minute, pressure compensated)	1
6	01-098703		VALVE ASSY., FLOW CONTROL (10 L per minute, pressure compensated)	2
7			VALVE KIT, LOAD CHECK	7
8			POPPET, LOAD CHECK	1
9			SPRING	1
10			PLUG, HEX HEAD	1
11			O-RING (also part of Seal Kit, item 35)	1
12			TUBE ASSEMBLY, FEEDER (11/16" O.D.)	2
13			TUBE ASSEMBLY, FEEDER (3/4" O.D.)	4
14			BOLT, HEX HEAD (1/4"-20 x 3-3/4", Grade 5)	2
15			BOLT, HEX HEAD (1/4"-20 x 4-1/2", Grade 5)	2
16			WASHER, SPLIT LOCK (1/4")	4
17			NUT, HEX (1/4"-20, Grade 5)	4
18			SPRING CENTER KIT	7
19			CAP, END	1
20			SCREW	2
21			WASHER	1
22			SPRING, RETURN	1
23			SPACER	1
24			BOLT, SHOULDER	1
25	01-098901		HANDLE KIT (5" handle, for spools 1 and 2)	2
	01-098902		HANDLE KIT (5-3/4" handle, for spools 3, 4, 5, 6 and 7)	5
26	01-098402		BLOCK, PIVOT	1
27	01-098403		PIN, CLEVIS	1
28	01-098413		C-HOOK	1
29	01-098414		LINK (for spools 1, 2, 6 and 7 only)	1
30	01-098411		WASHER, FLAT (for spools 3, 4 and 5 only)	1
31	01-098409		WASHER, SPRING (2 for spools 3, 4 and 5, 1 for rest)	2
32	01-098412		PIN, COTTER	3
33	01-098502		ROD, HANDLE (5")	1
	01-098503		ROD, HANDLE (5-3/4")	1
34	01-098407		KNOB, BALL (Plastic)	1
35	01-098408		NUT, JAM	1
36	01-098801		SEAL KIT (7 Spool)	1

TITLE PLATFORM VALVE BANK ASSEMBLY, 7 SPOOL (PLATE 1 OF 2)

PLATE NO.	06.17	<b>SIMON AERIALS INC.</b>	REV. 11/07/90	PART NO. 3518660
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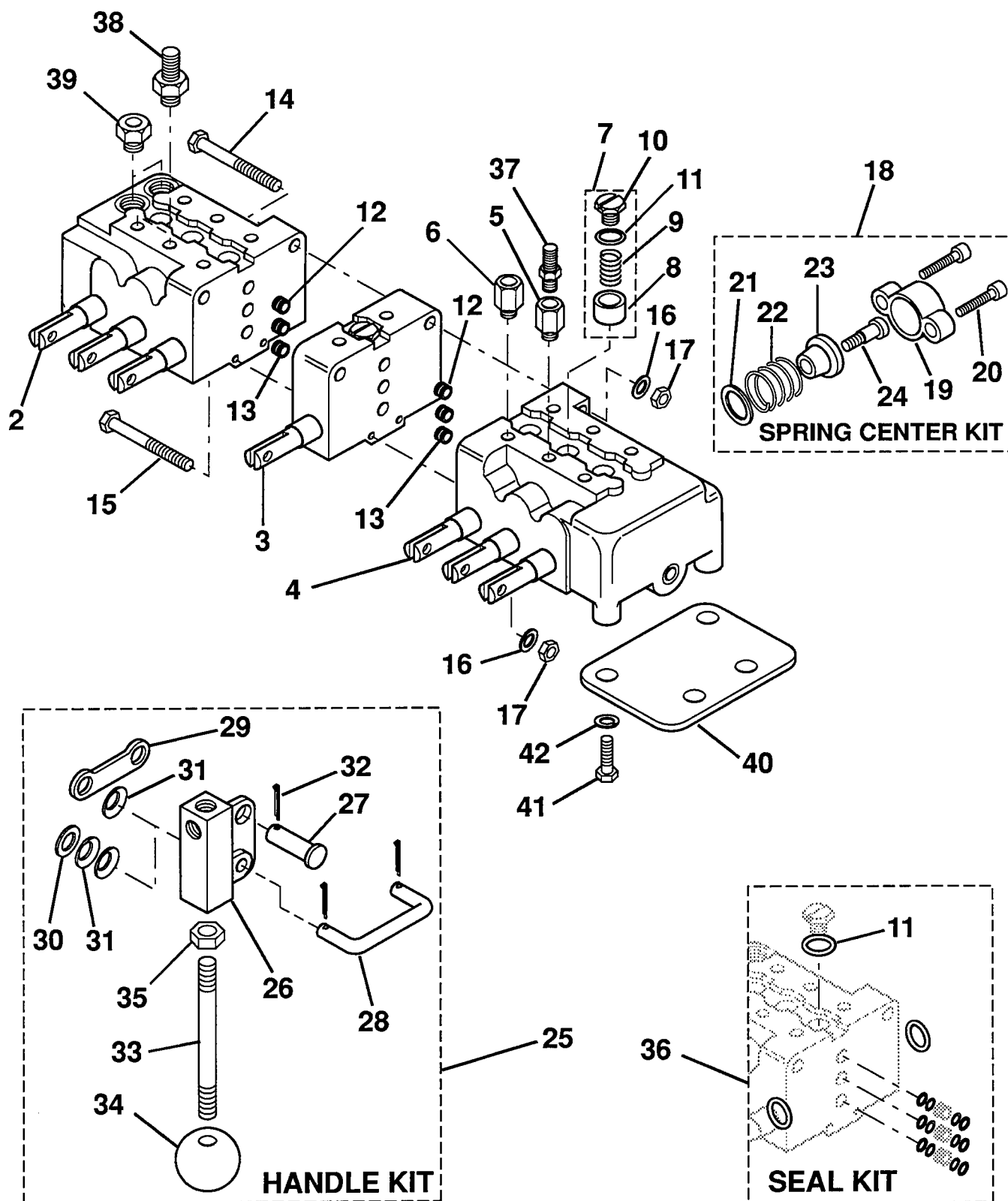




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TITLE	PLATFORM VALVE BANK ASSEMBLY, 7 SPOOL (PLATE 2 OF 2)
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PLATE NO.	06.17	SIMON AERIALS INC.	REV. 11/07/90	PART NO.	3518660
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TITLE PLATFORM VALVE BANK ASSEMBLY, 7 SPOOL (PLATE 2 OF 2)

**SIMON AERIALS INC.**

REV. 11/07/90

PART  
NO.

3518660

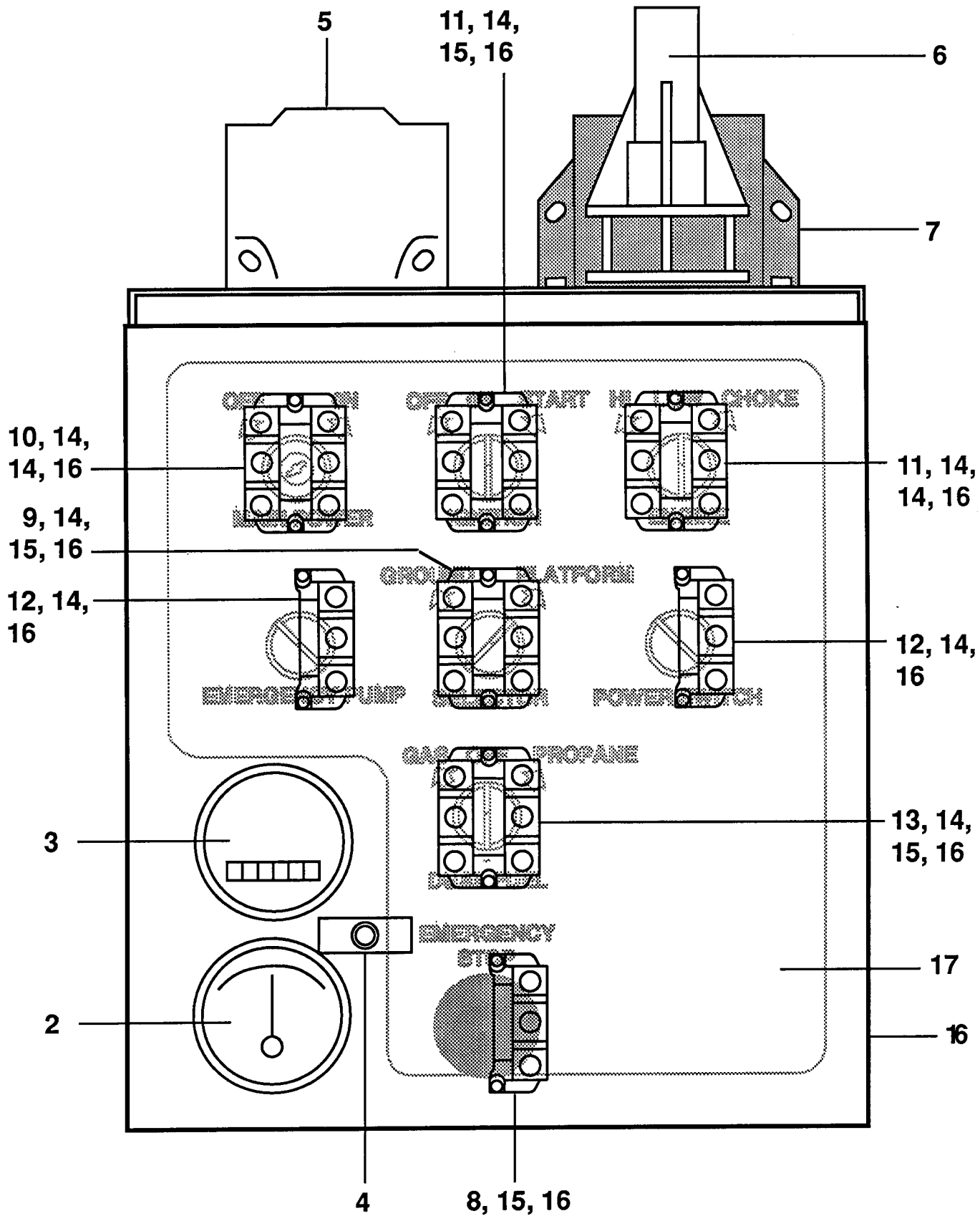
PLATE  
NO.

06.17

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# GROUND CONTROL BOX (PLATE 1 OF 2)

PART  
NO.



TITLE

GROUND CONTROL BOX (PLATE 1 OF 2)

**SIMON AERIALS INC.**

REV. 12/10/91

PART  
NO.

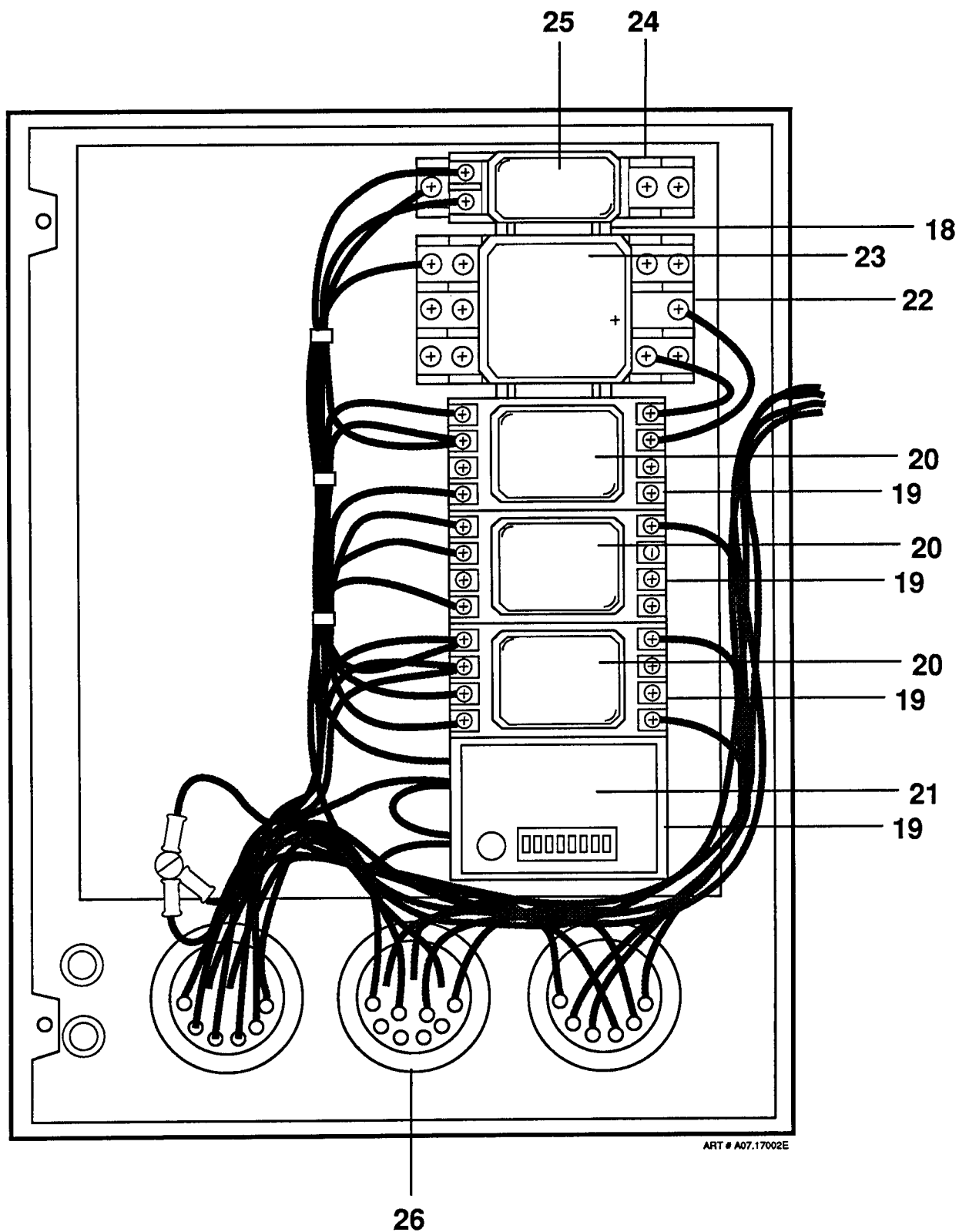
PLATE  
NO.

07.17

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## GROUND CONTROL BOX (PLATE 2 OF 2)

PART  
NO.



TITLE

GROUND CONTROL BOX (PLATE 2 OF 2)

**SIMON AERIALS INC.**

REV. 12/10/91

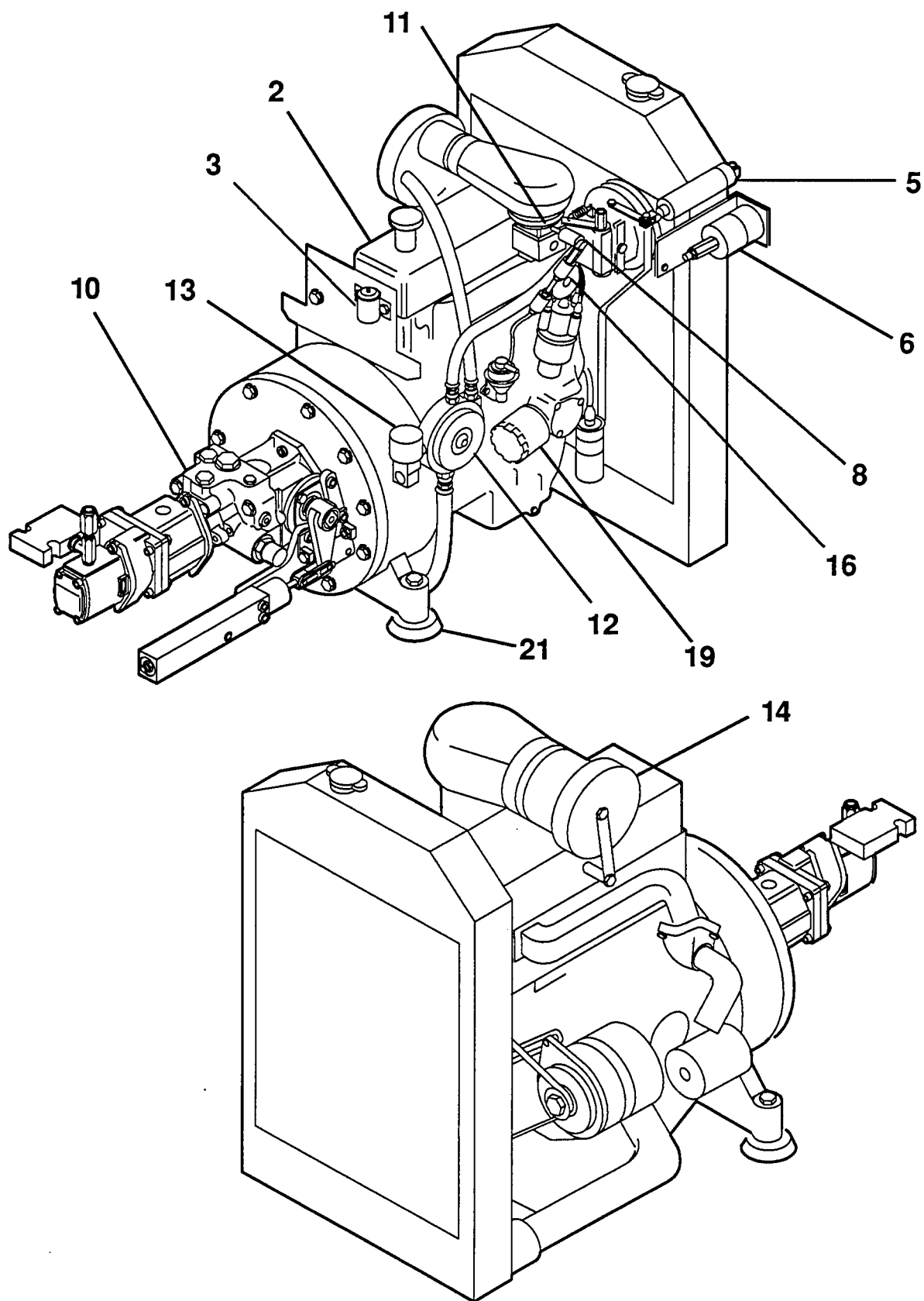
PART  
NO.

PLATE  
NO.

07.17

ITEM	PART NO	SEE SECTION
1	3518410 3517830	
2	09-037900	
	09-038000	
3	03-051300	
4	03-414400	
5	09-039600	
6	09-000405	
7	03-074000	
8	03-452100	
9	03-459400 03-464500	
9a	03-450400	
10	3517840	12. 06
11		
12		
13		
14		
15		
16	09-015800	
17		
18		
19		
20	09-024700	
20a	09-031700	
21	09-001800	
22		
TITLE	ENGINE ASSEMBLY	
PLATE NO.	08.13	SIMON





TITLE ENGINE ASSEMBLY, FORD VSG-413 (1.3 L GAS / DUAL FUEL)

**SIMON AERIALS INC.**

PART  
NO.

PLATE  
NO. 8.13

## PARTS LIST

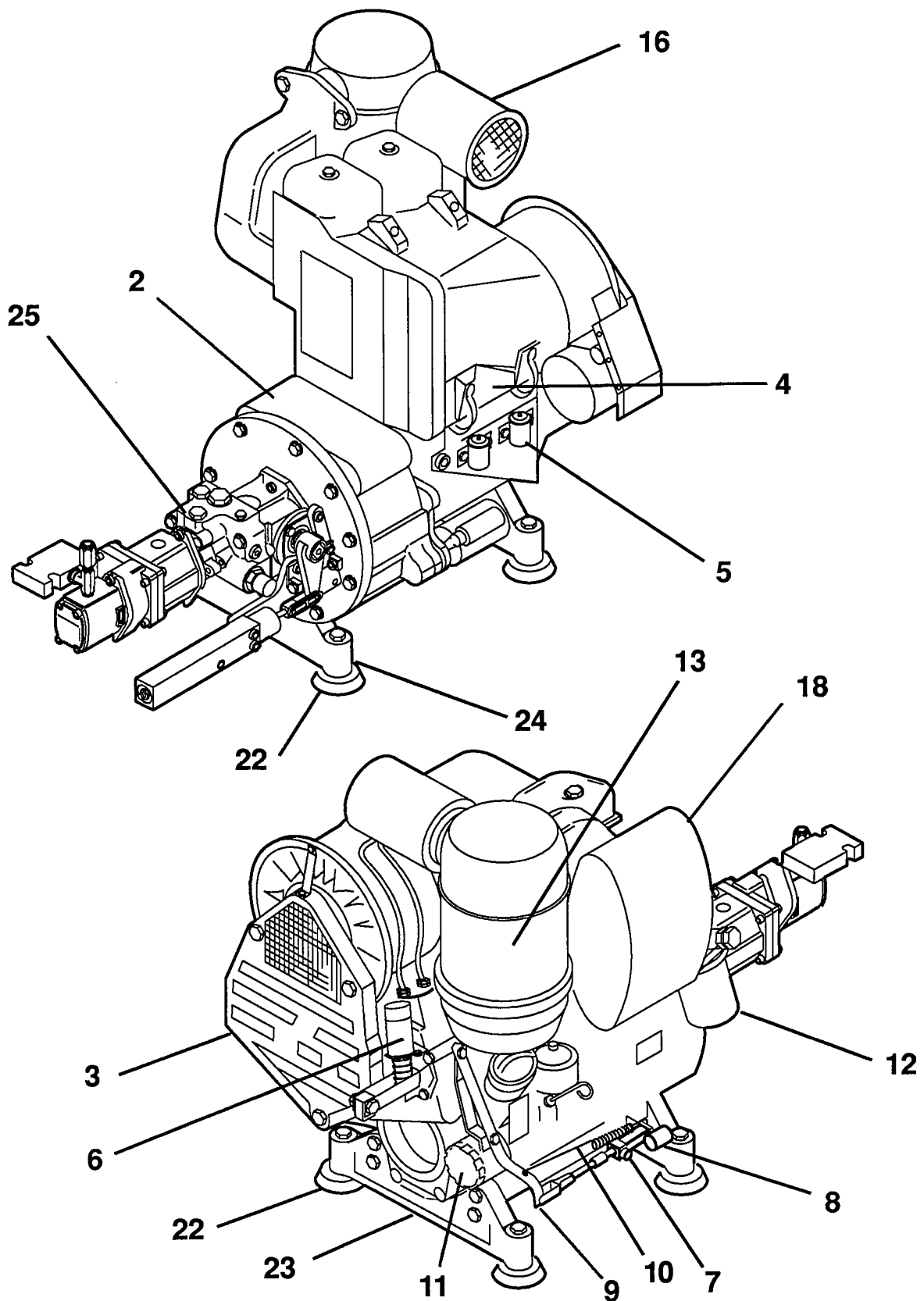
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**TITLE** ENGINE ASSEMBLY, DEUTZ F2L511 DIESEL

PLATE NO.	08.14	<b>SIMON AERIALS INC.</b>
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REV. 10/28/90

PART  
NO.



TITLE

ENGINE ASSEMBLY, DEUTZ F2L511 DIESEL

**SIMON AERIALS INC.**

REV. 10/28/90

PART  
NO.

PLATE  
NO.

08.14

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	3518680		BOX ASSEMBLY, PLATFORM ELECTRICAL	1
2	03-436400		BOX, JUNCTION (13-1/4" x 3-1/8" x 2-5/8")	1
3	10-107100		DECAL, PLATFORM ELECTRICAL CONTROL	1
4	07-011355		SCREW, HEX HEAD (#10-24 x 3/4")	4
5	07-050011		NUT, STOP (#10-24)	4
6	03-409800		BUTTON, EMERGENCY STOP	1
7	03-436800		SWITCH, IGNITION (3 position rotary)	2
8	03-437000		SWITCH, 2 POSITION ROTARY (1 maintained, 1 momentary contact)	1
9	03-410000		SWITCH, 2 POSITION ROTARY (2 maintained contact)	1
10	03-437200		BLOCK, CONTACT (Normally open)	4
11	03-437300		BLOCK, CONTACT (Normally closed)	3
12	03-454900		BASE, SWITCH MOUNTING	5
13	03-409400		BASE, PILOT LIGHT	1
14	03-463300		LENS, PILOT LIGHT (Red)	1
15	03-409401		BULB, PILOT LIGHT	1
16	03-450100		CONNECTOR, RECEPTACLE (23 conductor)	1
17	03-450900		PIN, TERMINAL	20
18	03-450200		NUT, PANEL	1
19	03-450300		WASHER, LOCK	1
20	03-459700		HARNESS, STEERING WIRE (not shown)	1
21	01-083400	29.05	VALVE, DRIVE CONTROLLER	1
22	03-451100		CONNECTOR, MALE (3 conductor)	1
23	03-451000		SOCKET, TERMINAL	3
24	03-457100		WEDGE, CONNECTOR (3 pin)	1
25	07-003003		SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	2
26	07-050014		NUT, STOP (1/4"-20, Grade 5)	2
27	07-062014		WASHER, FLAT (1/4")	2
28	2133020		BAR, GRAB	2
29	2114330		PLUG (Modified 12 PNTX)	4
30	07-003085		SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	4
31	07-065018		WASHER, HELICAL LOCK (1/2")	4
32	10-098700		DECAL, PLATFORM CONTROL VALVES	1

TITLE

PLATFORM CONTROL CONSOLE

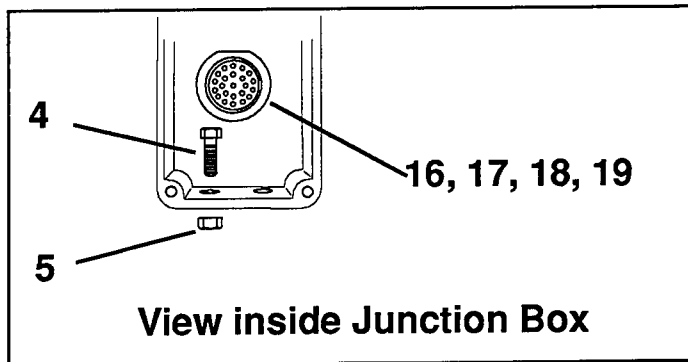
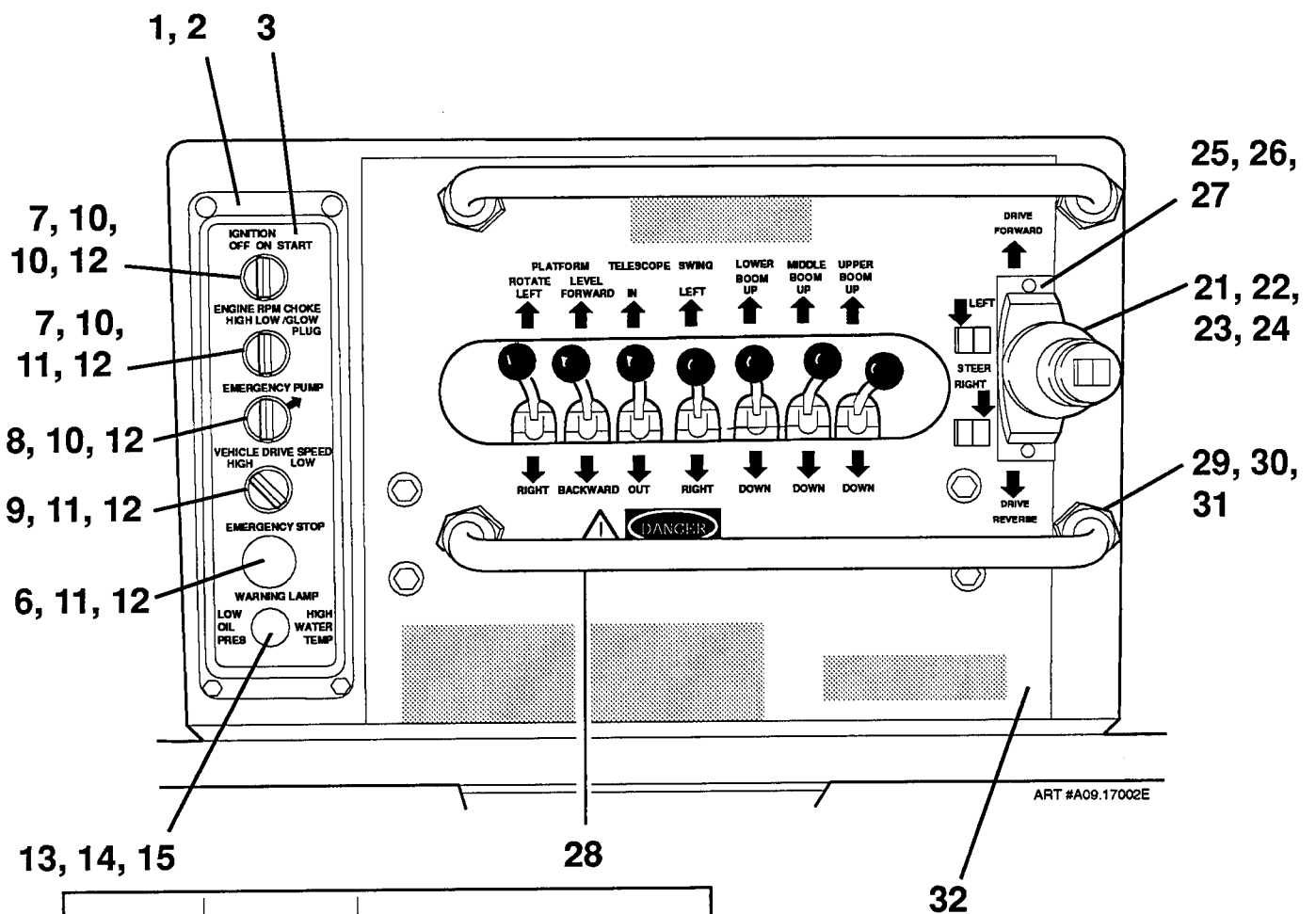
PLATE NO.

09.17

**SIMON AERIALS INC.**

REV. 09/20/90

PART NO.



TITLE PLATFORM CONTROL CONSOLE

SIMON AERIALS INC.

REV. 09/20/90

PART NO.

PLATE NO. 09.17

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	04-028200		CYLINDER, MASTER (Type 1) <b>Note:</b> On a "Type 1" Cylinder, the port tube has a <b>bend at the end</b> , and <b>enters the cylinder side wall directly</b> .	1
	04-030400		The cylinder serial number, which is stamped on the cylinder side wall, has an <b>"A" prefix</b> . CYLINDER, MASTER (Type 2) <b>Note:</b> On a "Type 2" Cylinder, the port tube <b>has no bend</b> at the end, and enters a <b>cylindrical boss</b> welded to the cylinder side wall. The six-digit cylinder serial number stamped on the cylinder side wall has <b>no "A" prefix</b> .	1
	04-032600		CYLINDER, MASTER (Type 3) <b>Note:</b> On a "Type 3" Cylinder, the port tube <b>has no bend</b> at the end, and enters a <b>round top boss</b> welded to the cylinder side wall. The serial number will be found on a nameplate attached to the holding valve.	1
			<b>Note:</b> When ordering a <b>REPLACEMENT CYLINDER</b> , "Type 3" will be supplied.	
2	04-028202		CARTRIDGE, HOLDING VALVE (for "Type 1" Cylinder)	2
	04-028202		(for "Type 2" Cylinder)	2
	04-028204		(for "Type 3" Cylinder)	2
3	04-028204		SEAL KIT, HOLDING VALVE	1
4	04-032602		NUT, LOCK (for "Type 3" Cylinder)	1
5	04-032603		PISTON (for "Type 3" Cylinder)	1
6	04-032604		HEAD (for "Type 3" Cylinder)	1
7	04-032605		ROD (for "Type 3" Cylinder)	1
8	04-032606		BUSHING (for "Type 3" Cylinder)	4
9			SEAL KIT	
	04-028201		(for "Type 1" Cylinder)	1
	04-030401		(for "Type 2" Cylinder)	1
	04-032601		(for "Type 3" Cylinder)	1
			The following items are not included as part of the Master Cylinder Assembly:	
10	06-044400		ELBOW, STRAIGHT THREAD (4-6 C50X-S)	2
11	06-039300		CONNECTOR, STRAIGHT THREAD (4 F50X-S)	1
12	06-039500		ADAPTER (4-6 F50X-S)	1
13	08-050000		FITTING, GREASE (1/8", Straight)	1
14	08-051300		FITTING, GREASE (1/8" x 90°)	1
15	08-066300		CAP, GREASE (white plastic)	2

TITLE

MASTER CYLINDER

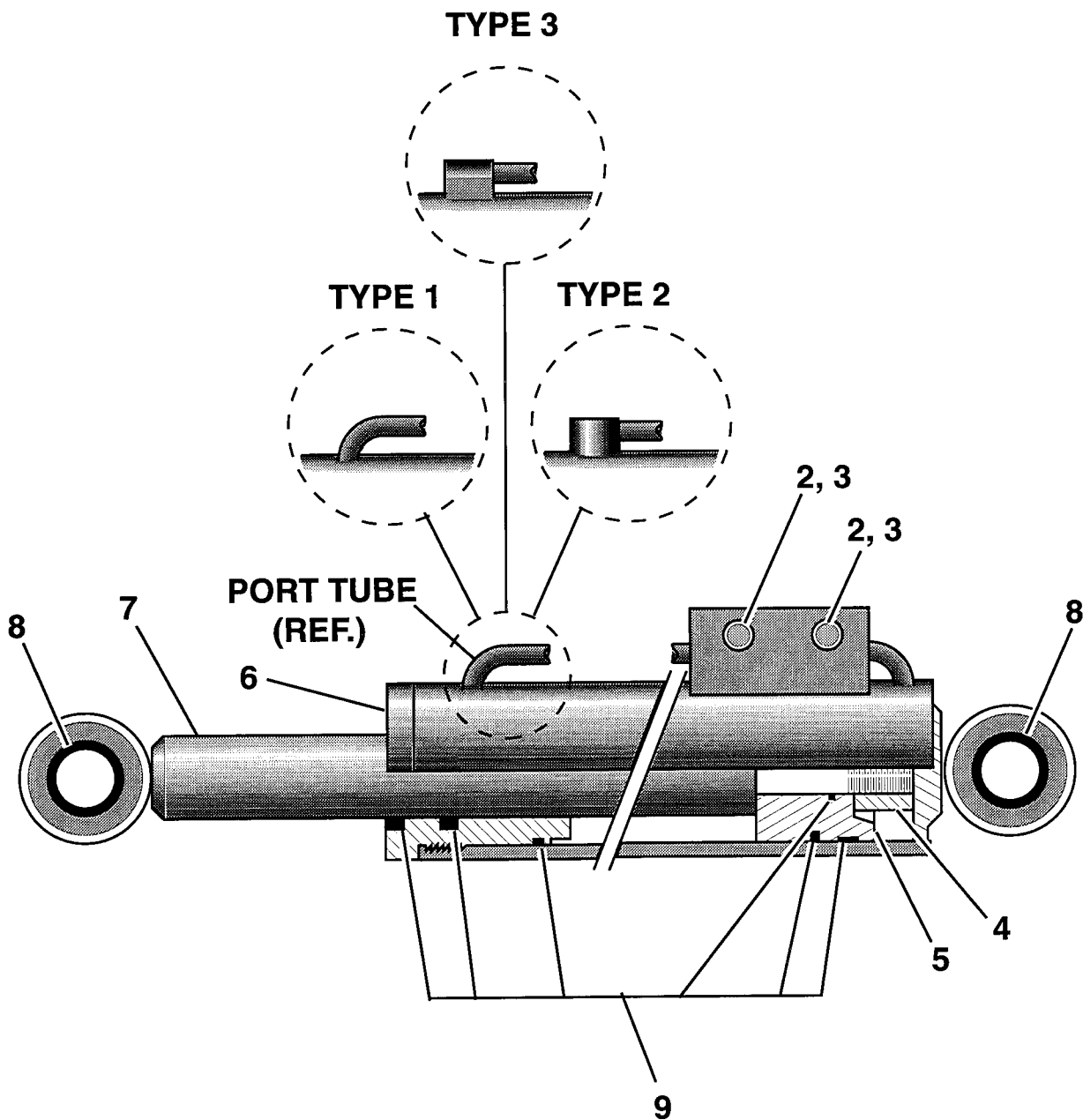
PLATE NO.

11.06

**SIMON AERIALS INC.**

REV. 24 MAR., 1995

PART NO.



TITLE

MASTER CYLINDER

**SIMON AERIALS INC.**

REV. 24 MAR., 1995

PART  
NO.

PLATE  
NO. 11.06



## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	04-028300		CYLINDER, SLAVE (Type 1) <b>Note:</b> On a "Type 1" Cylinder, the port tube has a <b>bend at the end</b> , and <b>enters the cylinder side wall directly</b> . The cylinder serial number, which is stamped on the cylinder side wall, has an <b>"A" prefix</b> .	1
	04-030500		CYLINDER, SLAVE (Type 2) <b>Note:</b> On a "Type 2" Cylinder, the port tube <b>has no bend</b> at the end, and enters a <b>cylindrical boss</b> welded to the cylinder side wall. The six-digit cylinder serial number stamped on the cylinder side wall has <b>no "A" prefix</b> .	1
	04-032700		CYLINDER, SLAVE (Type 3) <b>Note:</b> On a "Type 3" Cylinder, the port tube <b>has no bend</b> at the end, and enters a <b>round top boss</b> welded to the cylinder side wall. The cylinder can also be identified by the Part Number "04032700SH" on a nameplate located on the valve block, along with the serial number.  <b>Note:</b> When ordering a <b>REPLACEMENT CYLINDER</b> , "Type 3" will be supplied.	1
2			CARTRIDGE, HOLDING VALVE (Counterbalance Valve)	
	04-028302		for "Type 1" Cylinder	2
	04-030502		for "Type 2" Cylinder	2
			for "Type 3" Cylinder	2
	04-028302		Type 3a (Valve is stamped "CB-CG-LJN")	2
	01-227200		Type 3b [Valve is stamped "CB-CB-LHN", and set at 3,000 PSI (207 Bar) (211 Kg/ cm <sup>2</sup> )]	2
			<b>Note:</b> "Type 1" and "Type 2" holding valves are directly interchangeable, but <b>must be replaced in pairs</b> . When ordering a replacement holding valve, <b>(2) of "Type 3b"</b> will be supplied unless otherwise specified.	
3			SEAL KIT, COUNTERBALANCE VALVE	
	04-028303		(for Holding Valve for "Type 1" Cylinder)	1
	04-028303		(for "Type 3a" Holding Valve)	1
	01-227201		(for "Type 3b" Holding Valve)	1
4	04-032602		NUT, LOCK (for "Type 3" Cylinder)	1
5	04-032603		PISTON (for "Type 3" Cylinder)	1
6	04-032605		ROD (for "Type 3" Cylinder)	1
7	04-028301		BUSHING (for "Type 1" Cylinder)	4
	04-030504		BUSHING (for "Type 2" Cylinder)	4
	04-032606		BUSHING (for "Type 3" Cylinder)	4

TITLE

SLAVE CYLINDER (PLATE 1 OF 2)

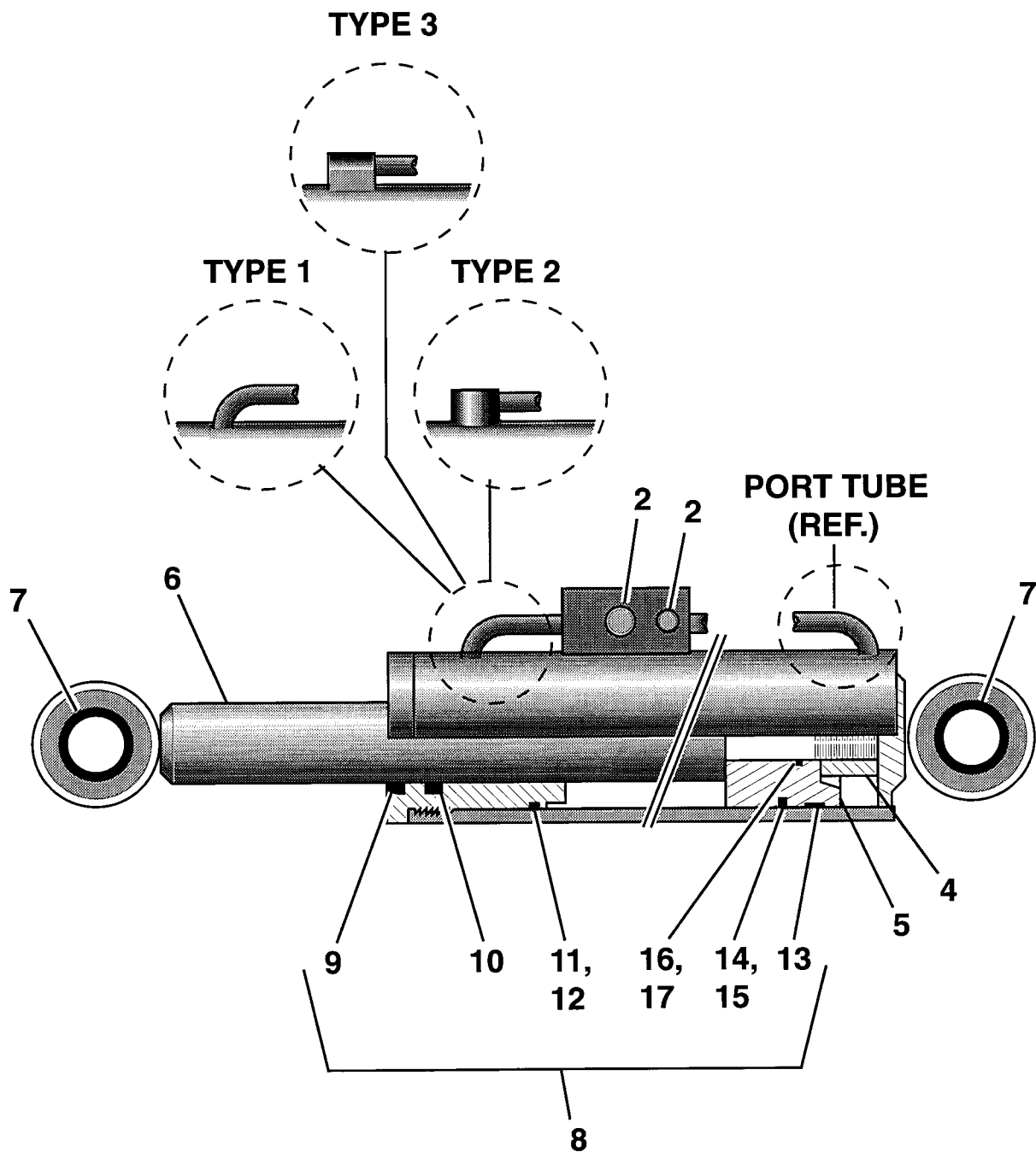
PLATE NO.

11.07

**SIMON AERIALS INC.**

REV. 15 OCT., 1993

PART NO.



TITLE

SLAVE CYLINDER (PLATE 1 OF 2)

**SIMON AERIALS INC.**

REV. 15 OCT., 1993

PART  
NO.

PLATE  
NO.

11.07

## PARTS LIST

[illegible]

**TITLE**

SLAVE CYLINDER (PLATE 2 OF 2)

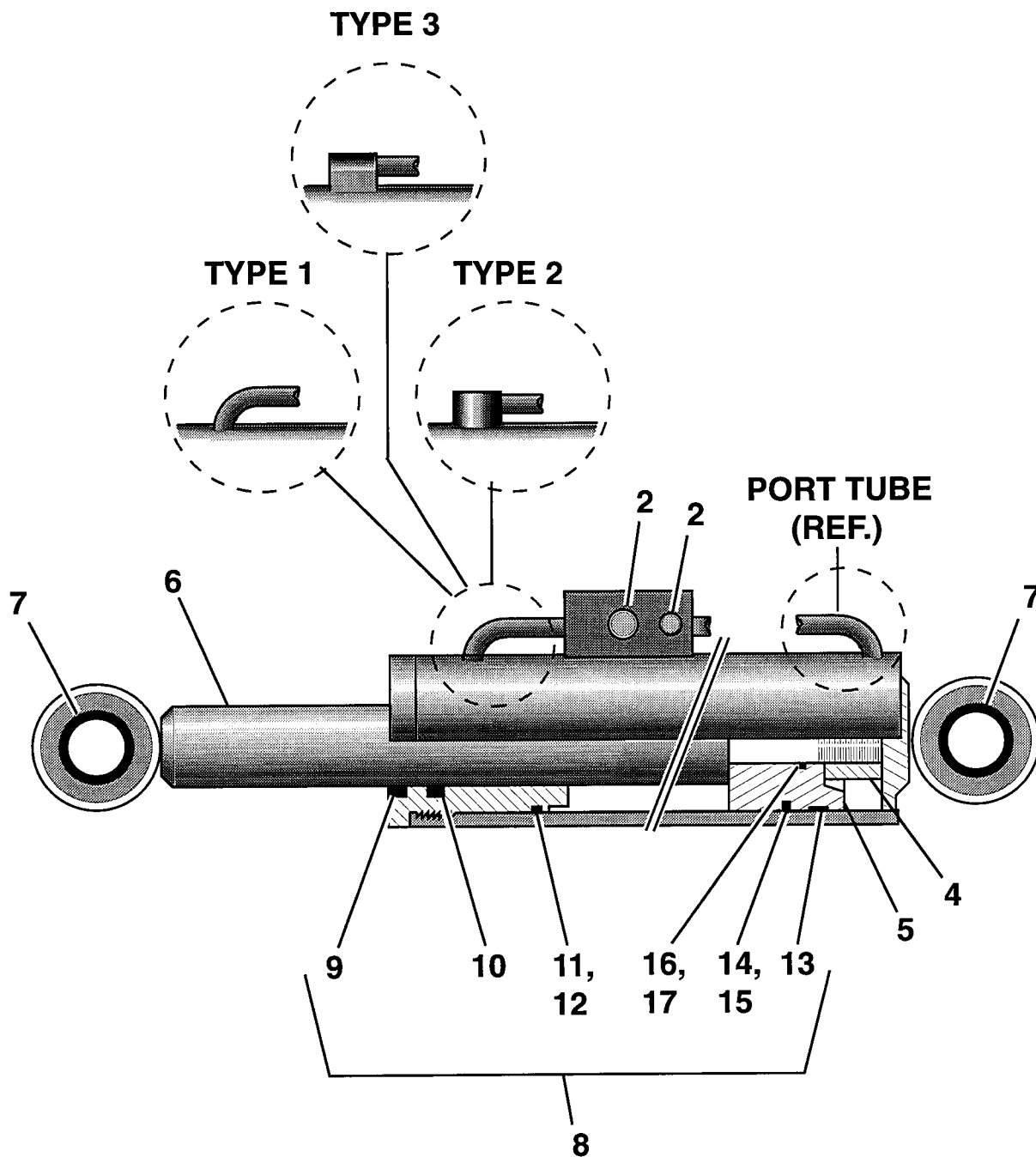
**PLATE  
NO.**

11.07

# SIMON AERIALS INC.

REV. 15 OCT., 1993

**PART  
NO.**



TITLE

SLAVE CYLINDER (PLATE 2 OF 2)

**SIMON AERIALS INC.**

REV. 15 OCT., 1993

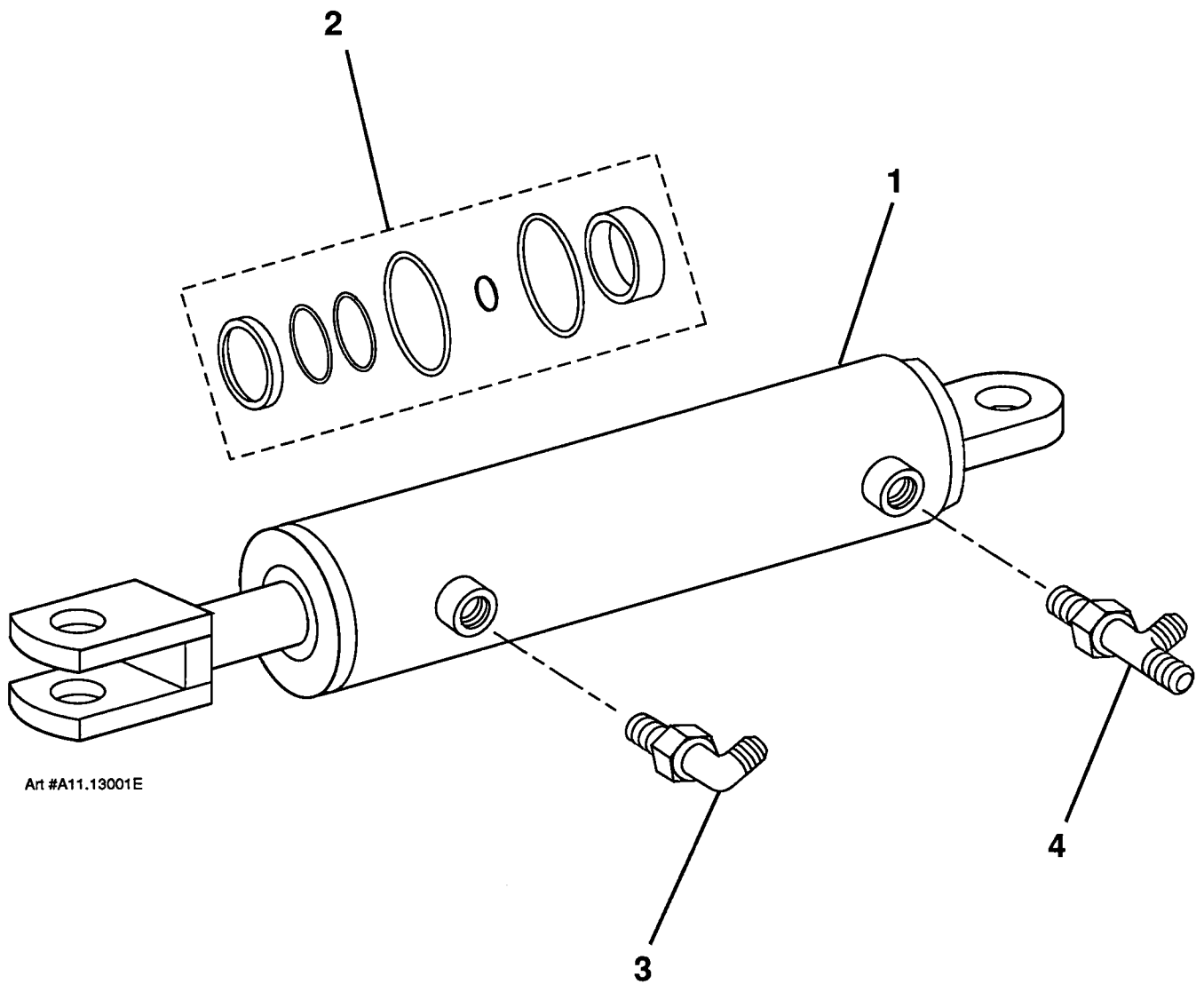
PART  
NO.

PLATE  
NO.

11.07

## PARTS LIST

[illegible]



Art #A11.13001E

TITLE

STEER CYLINDER

**SIMON AERIALS INC.**

REV. 09 SEP., 1993

PART  
NO.

PLATE  
NO.

11.13



## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	04-029200		CYLINDER, TELESCOPE (Extend) (Type 1) <b>Note:</b> On a "Type 1" Cylinder, the port tube has a <b>bend at the end</b> , and <b>enters the cylinder side wall directly</b> . The cylinder serial number, which is stamped on the cylinder side wall, has an <b>"A" prefix</b> .	1
	04-033000		CYLINDER, TELESCOPE (Extend) (Type 2) <b>Note:</b> On a "Type 2" Cylinder, the port tube <b>has no bend</b> at the end, and enters a <b>round top boss</b> welded to the cylinder side wall. The serial number will be found on a nameplate attached to the holding valve.  <b>Note:</b> When ordering a <b>REPLACEMENT CYLINDER</b> , "Type 2" will be supplied.	1
2			CARTRIDGE, COUNTERBALANCE VALVE	
	04-028302		(for "Type 1" Cylinder)	2
	04-028302		(for "Type 2" Cylinder)	2
3	04-032602		NUT, LOCK (for "Type 2" Cylinder)	1
4	04-033002		PISTON (for "Type 2" Cylinder)	1
5	04-033003		HEAD (for "Type 2" Cylinder)	1
6	04-033003		ROD (for "Type 2" Cylinder)	1
7			SEAL KIT	
	04-028201		(for "Type 1" Cylinder)	1
	04-033001		(for "Type 2" Cylinder)	1
			The following items are <b>not included</b> as part of the Telescope Cylinder Assembly:	
8	214 5450		SUPPORT, CYLINDER	2
9	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
10	07-050016		NUT, HEX LOCK (3/8"-16, GRADE 5)	4
11	214 5460		GUIDE, CYLINDER TOP	1
12	07-090131		CAP SCREW, FLAT SOCKET HEAD (3/8"-16 x 3/4", Grade 5)	2
13	214 5440		SUPPORT, CYLINDER BOTTOM	1
14	07-003043		CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5)	2

TITLE TELESCOPE (EXTEND) CYLINDER

PLATE NO.

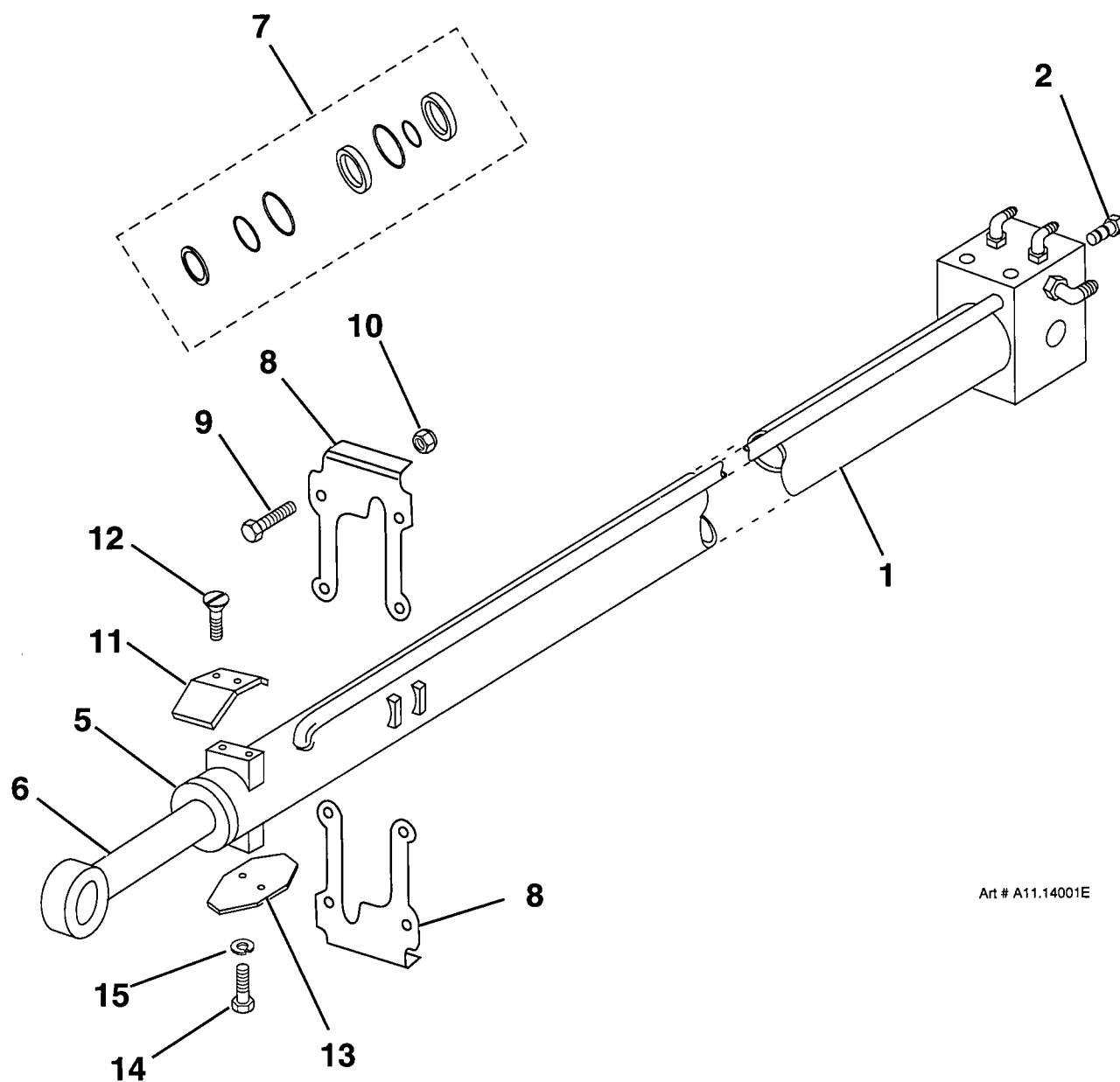
11.14

**SIMON AERIALS INC.**

REV. 24 MAR., 1995

PART NO.





Art # A11.14001E

TITLE

TELESCOPE (EXTEND) CYLINDER

**SIMON AERIALS INC.**

REV. 24 MAR., 1995

PART  
NO.

PLATE  
NO.

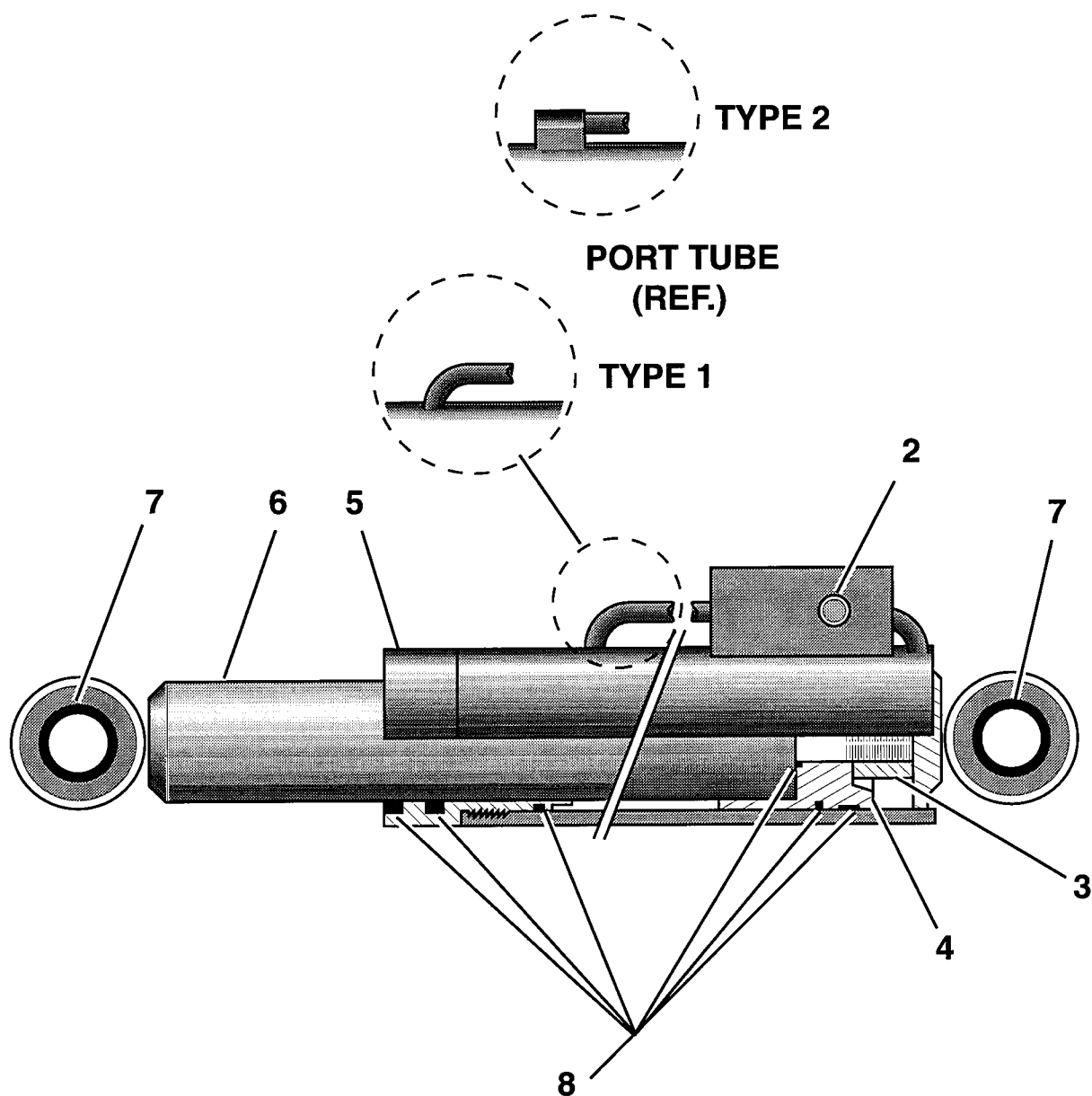
11.14

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TITLE	LIFT CYLINDER, MID AND UPPER BOOM (AT60)
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PLATE NO.	11.15	SIMON AERIALS INC.	REV. 15 AUG., 1994	PART NO.
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PART NO.
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TITLE

LIFT CYLINDER, MID AND UPPER BOOM (AT60)

**SIMON AERIALS INC.**

REV. 15 AUG., 1994

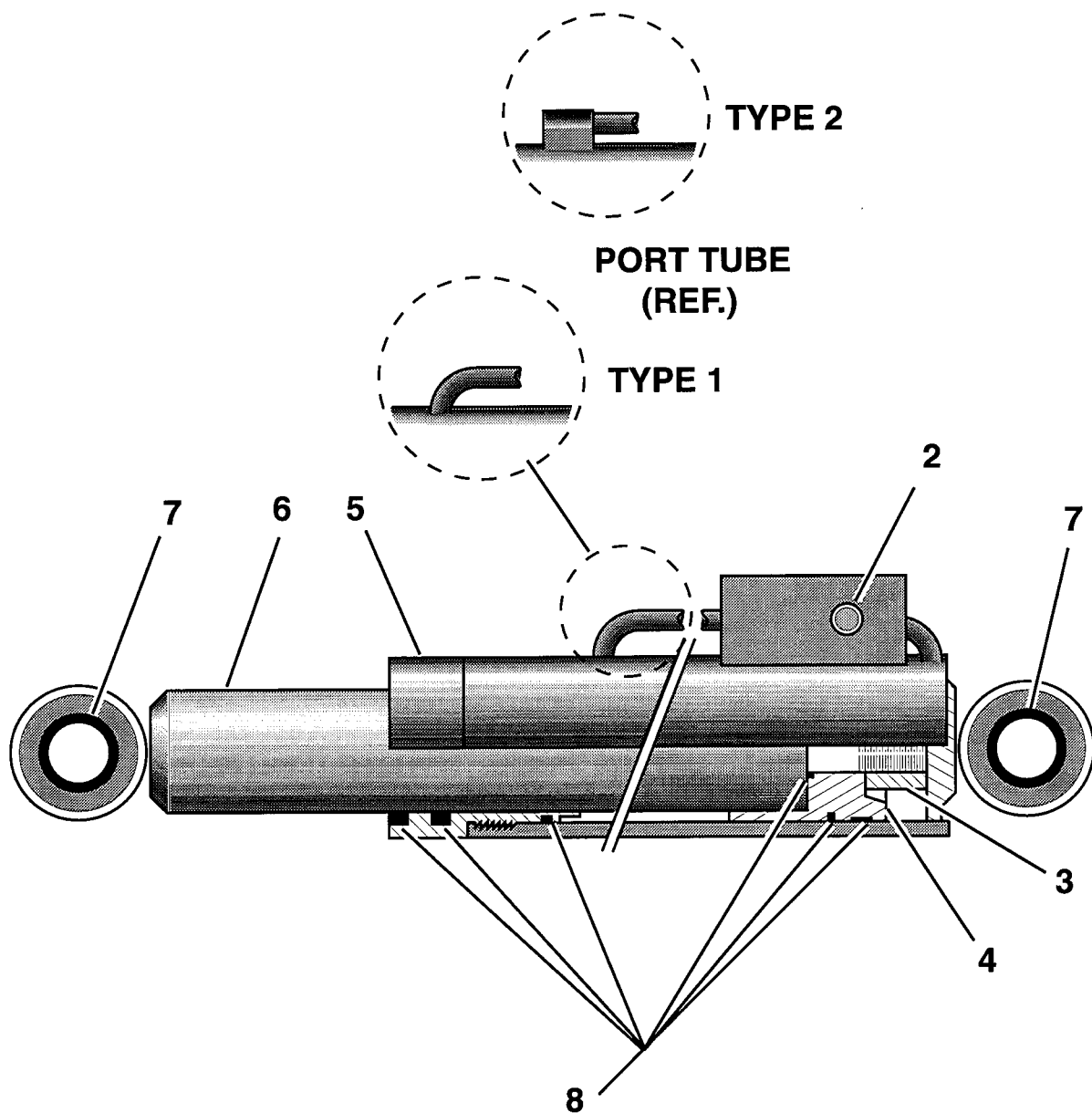
PART  
NO.

PLATE  
NO.

11.15

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	04-029800		CYLINDER, LIFT (Type 1) <b>Note:</b> On a "Type 1" Cylinder, the port tube has a <b>bend at the end</b> , and <b>enters the cylinder side wall directly</b> . The cylinder serial number, which is stamped on the cylinder side wall, has an <b>"A" prefix</b> .	2
	04-032900		CYLINDER, LIFT (Type 2) <b>Note:</b> On a "Type 2" Cylinder, the port tube <b>has no bend</b> at the end, and enters a <b>round top boss</b> welded to the cylinder side wall. The serial number will be found on a nameplate attached to the holding valve.  <b>Note:</b> When ordering a <b>REPLACEMENT CYLINDER</b> , "Type 2" will be supplied.	2
2			CARTRIDGE, COUNTERBALANCE VALVE (stamped "CBCG-LJN", and factory set at 3000 PSI [207 bar] [211 Kg/ cm <sup>2</sup> ]) (for "Type 1" Cylinder)	1
	04-028302		(for "Type 2" Cylinder)	
3	04-032902		NUT, LOCK (for "Type 2" Cylinder)	1
4	04-032903		PISTON (for "Type 2" Cylinder)	1
5	04-032904		HEAD (for "Type 2" Cylinder)	1
6	04-032905		ROD (for "Type 2" Cylinder)	1
7	04-032906		BUSHING (for "Type 2" Cylinder)	4
8			SEAL KIT (for "Type 1" Cylinder)	1
	04-032901		SEAL KIT (for "Type 2" Cylinder)	1

PLATE NO. 11.16	SIMON AERIALS INC.	REV. 15 AUG., 1994	PART NO.
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**TITLE** LIFT CYLINDER, LOWER BOOM (AT60)

**SIMON AERIALS INC.**

REV. 15 AUG., 1994

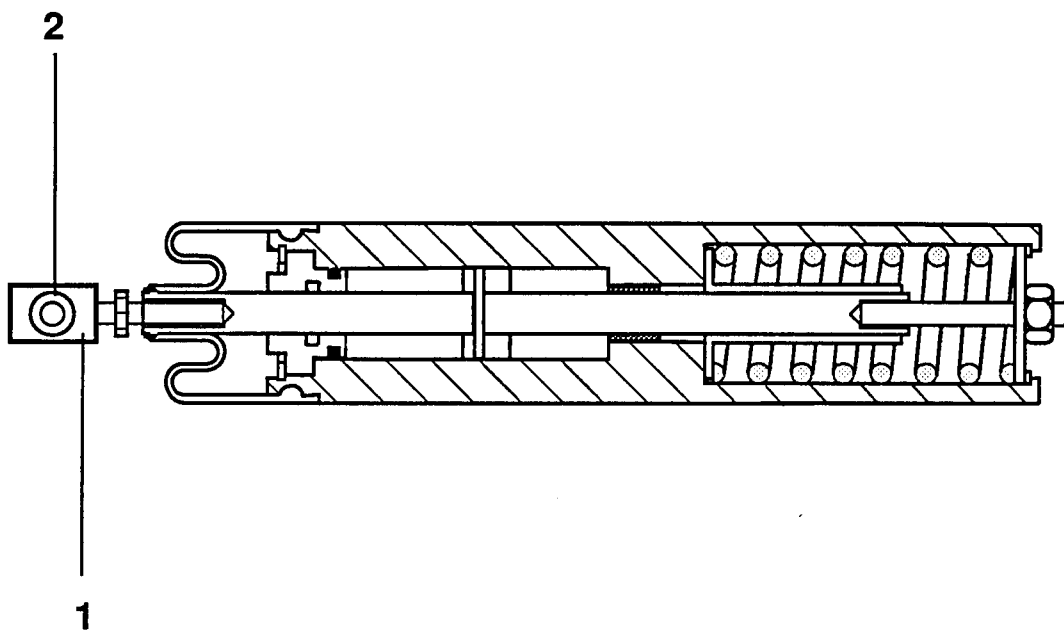
**PART  
NO.**

**PLATE  
NO.** 11.16

[illegible]

## ACTUATOR CYLINDER

**PART NO.** 04-030900



TITLE

ACTUATOR CYLINDER

**SIMON AERIALS INC.**

PART  
NO.

04-030900

PLATE  
NO.

11.17



## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-027204		MOTOR, ELECTRIC PUMP	1
2	01-027203		RELAY, SOLENOID (for all models <b>except RZB</b> ) <b>Note:</b> Relay has <b>three</b> posts.	1
	03-465200		RELAY, SOLENOID (for model RZB) <b>Note:</b> Relay has <b>four</b> posts.	1
			<b>Note:</b> When replacing Emergency Pump 01-027200 on a model <b>RZB</b> Aerial Platform, Relay <b>01-027203</b> must be <b>removed</b> , and <b>replaced</b> with Relay <b>03-465200</b> .	
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
			<b>Note:</b> Items in seal kit are identified by asterisk (*).	
17	*		SEAL, SHAFT	1
18	*		O-RING	2
19	01-027206		RELIEF VALVE ASSEMBLY	1
20			NUT, ACORN	1
21			GASKET, METAL	1
22			NUT, HEX JAM	1
23			SCREW, ADJUSTING	1
24			SPRING	1
25			GUIDE, SPRING	1
26			BALL	1
27			CAP, VALVE	1
28			WASHER, SEALING	1
29			SPRING	1
30			BALL	1

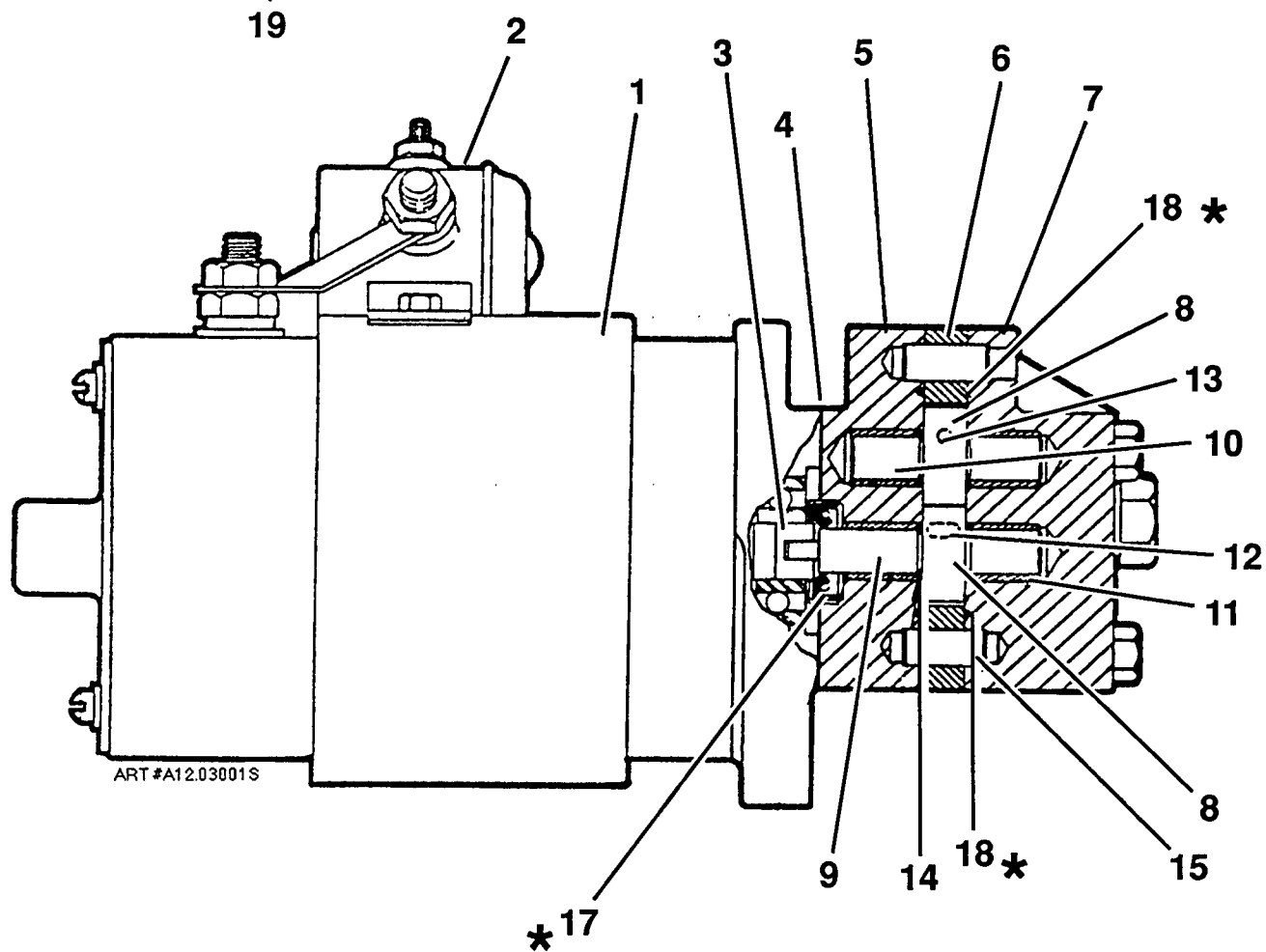
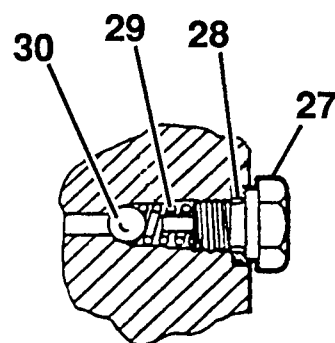
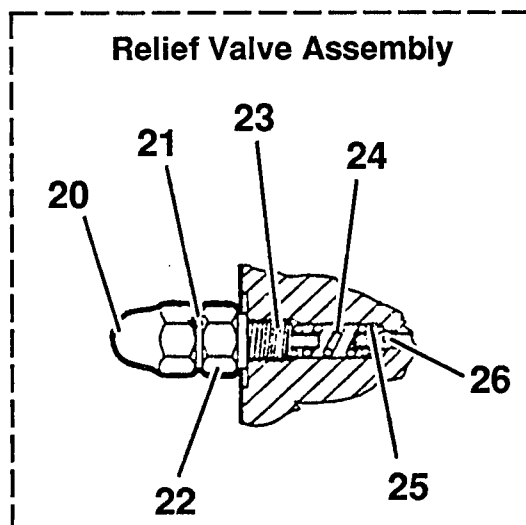
TITLE EMERGENCY PUMP

PLATE NO. 12.03

**SIMON AERIALS INC.**

REV. 08 OCT., 1993

PART NO. 01-027200



TITLE

EMERGENCY PUMP

**SIMON AERIALS INC.**

REV. 08 OCT., 1993

PART  
NO.

01-027200

PLATE  
NO.

12.03

# PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	3517840		PUMP ASSEMBLY, HYDRAULIC (w/ Ford VSG-413 engine)	1
			PUMP ASSEMBLY, HYDRAULIC (w/ Ford LSG-423 engine)	1
			PUMP ASSEMBLY, HYDRAULIC (w/ Wisconsin V-465D)	1
	3517840		PUMP ASSEMBLY, HYDRAULIC (w/ Deutz F2L511 engine)	1
			PUMP ASSEMBLY, HYDRAULIC (w/ Deutz F3L1011 engine)	1
			PUMP ASSEMBLY, HYDRAULIC (w/ Perkins 104.19 engine)	1
			PUMP ASSEMBLY, HYDRAULIC (w/ Isuzu C-240 engine)	1
			PUMP ASSEMBLY, HYDRAULIC (w/ Kubota V1902-B2)	1
1	01-088300	12.07	PUMP, HYDRAULIC (Labelled "M-35-2100")	1
	01-201500		PUMP, HYDRAULIC (Labelled "M-35-2117")	1
2	07-008087		CAP SCREW, SOCKET HEAD (1/2"-13 x 1-1/2", Grade 8)	2
3	07-065018		WASHER, HELICAL LOCK (1/2")	2
4	01-079800		ADAPTER KIT, TANG DRIVE	1
5	01-088400		PUMP, HYDRAULIC TANDEM	1
6	01-088401		PUMP SECTION (smaller section, marked "TFP 100")	1
7	01-088403		SEAL KIT, PUMP SECTION TFP 100	1
8	01-088402		PUMP SECTION (larger section, marked "TKP 4.26")	1
9	01-088404		SEAL KIT, PUMP SECTION TKP 4/26	1
10	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	2
11	07-065016		WASHER, HELICAL LOCK (3/8")	2
12	07-060016		WASHER, FLAT (3/8" SAE)	2
13	2146280		ARM, STROKE [w/ 8 mm (.315") dia. hole for Master Link] (for Pump labelled "M-35-2100")	1
			ARM, STROKE [w/ 1/4" (6.4 mm) dia. hole for Master Link] (for Pump labelled "M-35-2100")	1
14	2164040		ARM, STROKE (for Pump labelled "M-35-2117")	1
	08-062000		BUSHING, BRONZE [8 mm (.315") O.D.]	2
	08-066000		BUSHING, BRONZE [1/4" (6.4 mm) O.D.]	2
15	04-030900	11.17	CYLINDER, ACTUATOR	1
16	07-008356		CAP SCREW, SOCKET HEAD (#10-24 x 1-3/4", Grade 8)	2

TITLE PUMP ASSEMBLY, HYDRAULIC (PLATE 1 OF 2)

PLATE NO.

12.06

SIMON AERIALS INC.

REV. 09 SEP., 1993

PART NO.



## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
17	02-020600		LINK, MASTER (Type 4) (supercedes first three types) <b>Note:</b> Assembled with cotter pins. Stroke arm and actuator cylinder clevis <b>must have bushings (item 14).</b>	1
			LINK, MASTER (Type 1) (superceded by "Type 4") <b>Note:</b> Assembled with a "hairpin" clip. Stroke arm and actuator cylinder clevis <b>have bushings.</b>	1
			LINK, MASTER (Type 2) (superceded by "Type 4") <b>Note:</b> Assembled with .25" (6.4 mm) dia. shoulder bolts, washers and nuts. 1/4" O.D. <b>bushings removed</b> from stroke arm and actuator cylinder clevis.	1
			LINK, MASTER (Type 3) (superceded by "Type 4") <b>Note:</b> Assembled with 8 mm (.315") dia. shoulder bolts, washers and nuts. 8 mm O.D. <b>bushings removed</b> from stroke arm and actuator cylinder clevis.	1
18	02-025700		SPACER, PUMP MOUNTING (w/ Ford VSG-413 engine)	1
	2155960		SPACER, PUMP MOUNTING (w/ Deutz F2L511 engine)	1
	2155960		SPACER, PUMP MOUNTING (w/ Deutz F3L1011 engine)	1
	2156360		PLATE, PUMP MOUNTING (w/ Ford LSG-423 engine)	1
	2172350		PLATE, PUMP MOUNTING (w/ Isuzu C-240 engine)	1
	02-029300		PLATE, PUMP MOUNTING (w/ Perkins 104.19 engine)	1
19	02-025600		COUPLING ASSEMBLY (w/ Ford VSG-413 engine)	1
	02-025600		COUPLING ASSEMBLY (w/ Deutz F2L511 engine)	1
	02-029200		COUPLING ASSEMBLY (w/ Perkins 104.19 engine)	1
	02-032400		COUPLING (w/ Ford LSG-423 engine)	1
	02-032500		COUPLING (w/ Deutz F3L1011 engine)	1
20	2157040		PLATE, PUMP ADAPTER (w/ Wisconsin V-465D engine)	1
21	02-030400		COUPLING ASSEMBLY (w/ Wisconsin V-465D engine)	1
22	2146290		BRACKET, STROKE CYLINDER MOUNTING (for pump labelled "M-35-2100")	1
	2164050		BRACKET, STROKE CYLINDER MOUNTING (for pump labelled "M-35-2117")	1
23	2160840		BRACKET, STROKE ARM LIMITER (for pump labelled "M-35-2100")	1
24	01-094600		VALVE, FLOW DIVIDER	1
25	06-079000		ADAPTER, PIPE THREAD (6 F65X) (when flow divider is mounted on pump)	1
	06-044600		ELBOW, STRAIGHT THREAD (6 C50X) (when flow divider is mounted on deck plate)	1
26	2174040		ELBOW, STROKE CYLINDER (modified 4 C50X)	2
27	2175730		ADAPTER, STROKE CYLINDER (modified 4 F50X)	1

TITLE

PUMP ASSEMBLY, HYDRAULIC (PLATE 2 OF 2)

PLATE NO.

12.06

**SIMON AERIALS INC.**

REV. 09 SEP., 1993

PART NO.





## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-088300		PUMP ASSEMBLY, HYDRAULIC (labelled "M-35-2100")	1
	01-201500		PUMP ASSEMBLY, HYDRAULIC (labelled "M-35-2117")	1
	01-088301		SEAL KIT (for pumps "M-35-2100" or "M-35-2117")	1
			<b>Note:</b> Items in kit identified by asterisk (*).	
2			HOUSING ASSEMBLY	1
3			CHARGE PUMP ASSEMBLY	1
4			CHARGE PUMP (Gerotor Assembly)	1
5			PIN	1
6			SPACER, GEROTOR	1
7			BALL	1
8	*		O-RING	1
9	*		O-RING	1
10			ADAPTER, FLANGE	1
11			SCREW, HEX HEAD (Metric)	4
12			WASHER	4
13	*		O-RING	1
14	*		SEAL, LIP	1
15			CARRIER, SEAL	1
16			RING, RETAINING	1
17			VALVE, RELIEF	1
18			VALVE, RELIEF	1
19			RING, RETAINING	2
20			SPRING, CONICAL COMPRESSION	2
21	*		O-RING	2
22	*		O-RING	2
23			PLUG, SPECIAL	2
24	*		SEAL, LIP	1
25	*		O-RING	1
26			SHIM, TRUNNION	A.R.
27			CARRIER, TRUNNION SEAL	1
28			SCREW	4
29			POPPET, CHARGE RELIEF	1
30			SPRING, COMPRESSION	1
31			SHIM, CHARGE RELIEF	A.R.
32	*		O-RING	1
33			PLUG ASSEMBLY, CHARGE RELIEF	1

TITLE HYDRAULIC PUMP

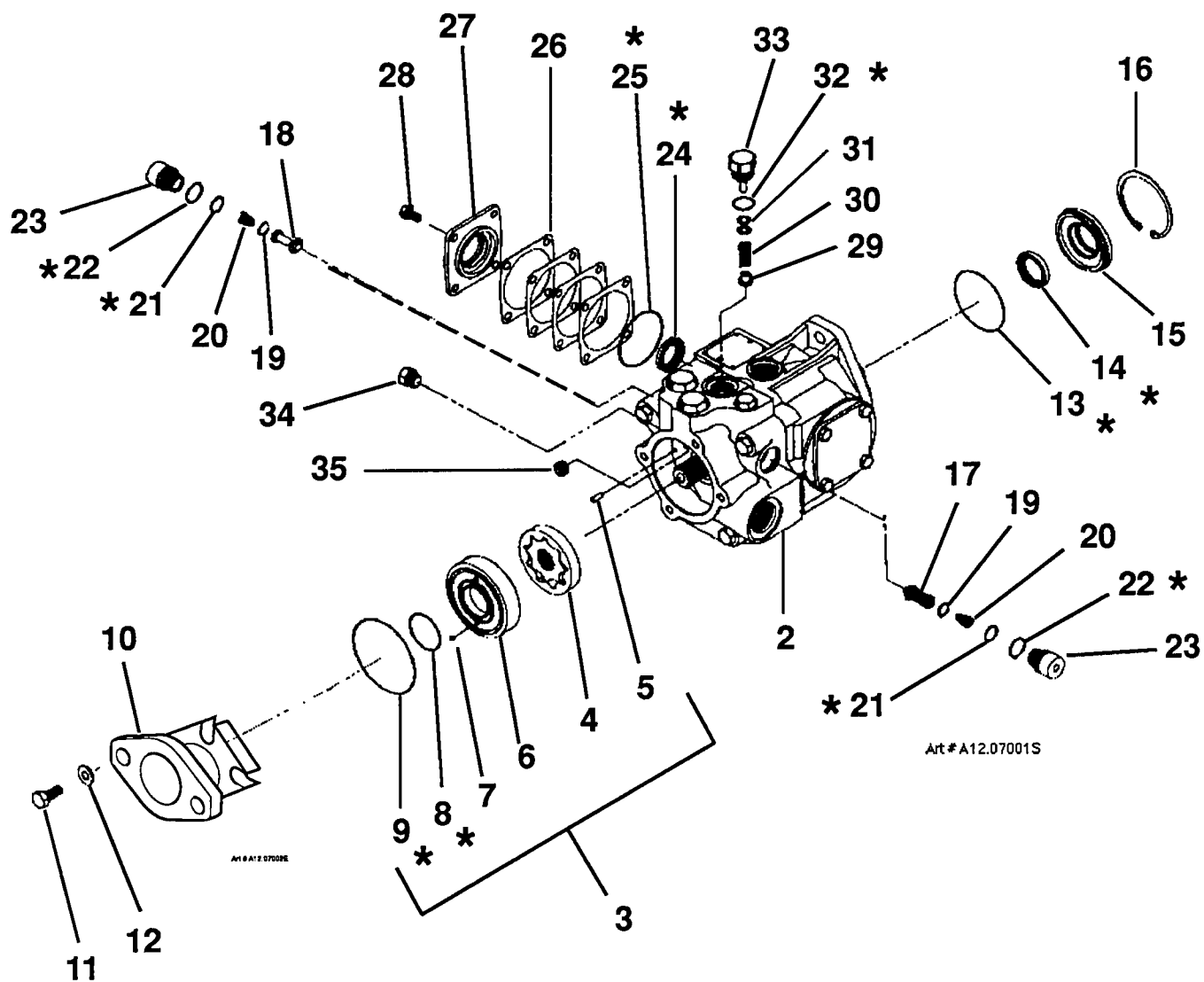
PLATE NO. 12.07

**SIMON AERIALS INC.**

REV. 12/10/91

PART NO.





TITLE

HYDRAULIC PUMP

**SIMON AERIALS INC.**

REV. 12/10/91

PART  
NO.

PLATE  
NO.

12.07

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	2157940		TIE ROD ASSEMBLY	
1	2157930		TIE ROD	1
2	08-016800		END, TIE ROD (R.H. thread)	1
3	08-016900		END, TIE ROD (L.H. thread)	1
4	07-090004		NUT, JAM (1-1/4"-12, R.H. thread)	1
5	07-090005		NUT, JAM (1-1/4"-12, L.H. thread)	1
6	07-090017		CAP SCREW, HEX HEAD (1"-8 x 4" long)	2
7	01-010900		VALVE, STEERING DISENGAGEMENT	1
8	2157910		ARM, PIVOT	1
9	2157820		BRACKET, PIVOT ARM MOUNTING	1
10	08-002000		BUSHING, CENTER STEER ARM PIN	2
11	2157800		BRACKET, STEERING ARM (right) (not shown)	1
12	2158130		SPACER	1
13	2160950		PLATE	1
14	2160960		ADAPTER	1
15	2160970		LEVER	1
16	2160980		ROD, TRANSFER CASE SHIFT	1
17	11-082200		SPRING	1
18	11-079800		KNOB, BALL	1
19	2160990		GATE, SLIDE	1
20			CAP SCREW, HEX HEAD (1/4" 20 x 1-1/2")	1
21			CAP SCREW, HEX HEAD (1/4" 20 x 2-1/2")	1
22			NUT, HEX LOCK	2
23			SET SCREW, HEX SOCKET (1/4"-20, cup point)	2
24	03-421900		BUTTON, PUSH (Brake release)	1
25	03-454900		BASE, SWITCH MOUNTING	1
26	03-437200		BLOCK, CONTACT (Normally open)	2
27	2158120		PIN	1
28	08-040900		RING, SNAP	2
29			SCREW	1
30			NUT	1
31	01-032800		VALVE, SHUT OFF (1/4" NPT)	1
32	2158170		DECAL, TOWING PROCEDURE	2
33	2159060		DECAL, DRIVE LINE DISENGAGE	1
34			DECAL, STEER SYSTEM DISENGAGE	1

TITLE

TOW PACKAGE, AT60C

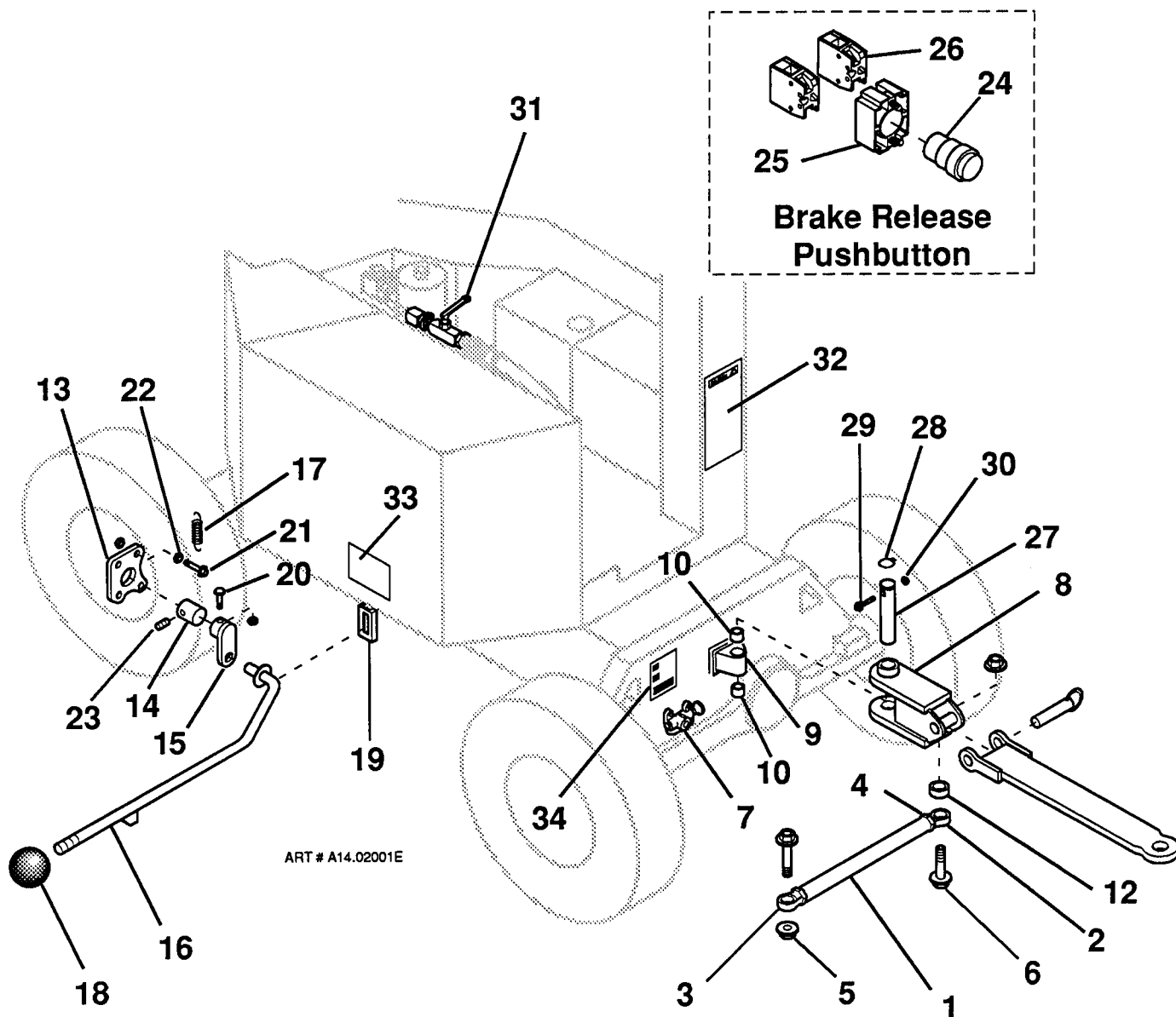
PLATE  
NO.

14.02

**SIMON AERIALS INC.**

REV. 12/10/91

PART  
NO.



TITLE

TOW PACKAGE, AT60C

**SIMON AERIALS INC.**

REV. 12/10/91

PART  
NO.

PLATE  
NO.

14.02

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-010700		SWITCH, HYDRAULIC PRESSURE (Type 1)	1
2	01-096100		BASE, SWITCH MOUNTING (#4 SAE straight thread)	1
3	06-191900		CONNECTOR, STRAIGHT THREAD (6-4 F50X)	1
4	06-079000		ADAPTER, PIPE THREAD (6 F65X)	1
5	01-096700		SWITCH, HYDRAULIC PRESSURE (Type 2) (labelled "LCD-2M-60")	1
6	01-209600		SWITCH, HYDRAULIC PRESSURE (Type 3) (labelled "SPX-2C-60A-WL30")	1
7	06-070600		REDUCER, PIPE THREAD (4-2 PTR)	1
8	06-086600		ADAPTER, FEMALE PIPE THREAD (6-4 F50)	1
9	01-013800		VALVE, SHUTTLE	1
10	06-044400		ELBOW, STRAIGHT THREAD (4-6 C50X)	2
11	3518870		HOSE ASSEMBLY, MEGAFLEX	2
12	03-041000		GRIP, CORD (1/2")	1
13	03-451200		CONNECTOR, PLUG (3 conductor)	1
14	03-457100		WEDGE, 3 CONDUCTOR PLUG	1
15	03-451000		SOCKET, TERMINAL	3
16	03-451100		CONNECTOR, RECEPTACLE (3 conductor)	1
17	03-457000		WEDGE, RECEPTACLE (3 conductor)	1
18	03-450900		PIN, TERMINAL	3

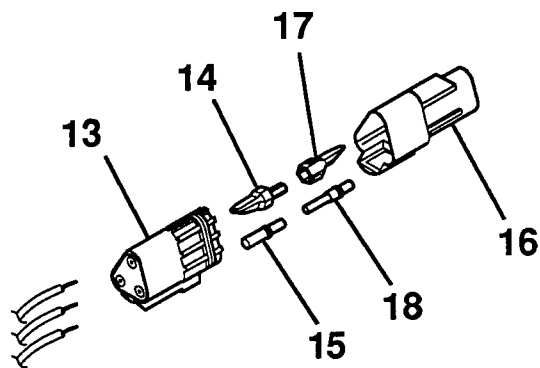
TITLE	NEUTRAL SWITCH, AT60C
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PLATE NO. 15.02

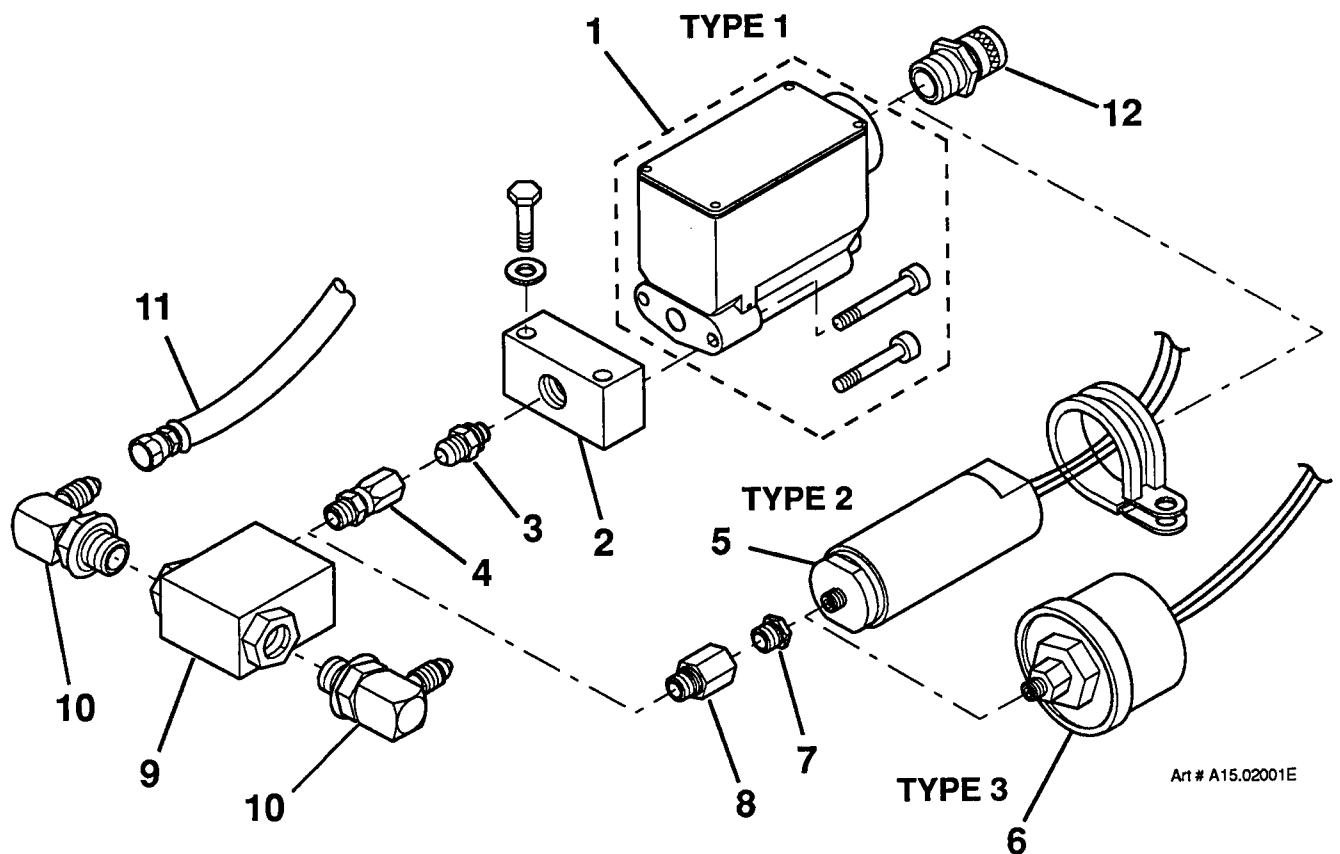
**SIMON AERIALS INC.**

REV. 16 DEC., 1991

PART  
NO.



CONNECTOR, PRESSURE SWITCH TO HARNESS



Ar1# A15.02001E

TITLE NEUTRAL SWITCH, AT60C

SIMON AERIALS INC.

REV. 16 DEC., 1991

PART  
NO.

PLATE  
NO.

15.02

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-017711		SHAFT, MAIN DRIVE (used with yoke connection to front drive shaft)	1
			SHAFT, MAIN DRIVE (used with flange connection to front drive shaft)	1
2	02-017741		PIN, OIL PUMP PLUNGER	2
3	02-017720		HUB, PLANETARY SHIFT	1
4	02-017724		RING, RETAINING (188 mm O.D., 3.2 mm thk.)	1
5	02-017730		GEAR, RING (Annulus) (98 internal teeth)	1
6	02-017714		BUSHING, INPUT SHAFT (1-1/4" I.D., 1-1/2" O.D., 1/2" lg.)	1
7	02-017723		BEARING, NEEDLE (Input shaft)	1
8	02-017746		PLANETARY ASSEMBLY	1
9	02-017752		BEARING, INPUT (84 mm O.D., 1.55 mm thk.)	1
10	02-017753		BEARING, INPUT (46 mm I.D., 2.31 mm thk.)	1
11	02-017727		HOUSING, OIL PUMP	1
12	02-017729		COVER, OIL PUMP FRONT (Input side)	1
13	02-017728		COVER, OIL PUMP REAR (Output side)	1
14	02-017736		RETAINER, OIL PUMP	1
15	02-017745		SCREW, CAP (Oil pump) (M5-0.8 x 20 mm)	4
16	02-017718		CLAMP, HOSE (13/32" free I.D.)	1
17	02-017735		COUPLING, HOSE (7 mm I.D. x 220 mm long)	1
18	02-017717		STRAINER, OIL	1
19	02-017732		SPROCKET, DRIVE (34 and 9 external teeth)	1
20	02-017721		COLLAR, SHIFT LOCKUP (9 internal teeth)	1
21	02-017725		SPRING, LOCKUP	1
22	02-017731		HUB, LOCKUP (9 internal teeth)	1
23	02-017750		RING, RETAINING (83 mm O.D., 1.3 mm thk.)	1
24	02-017719		HUB, SHIFT COLLAR (9 external, 48 internal teeth)	1
25	02-017707		CHAIN, DRIVE (endless, 1-1/4" wide, 84 links)	1
26	02-017712		SHAFT, OUTPUT (to rear axle. Exits same side as input shaft)	1
27	02-017733		SPROCKET, DRIVEN (31 internal, 34 external teeth)	1
28	02-017722		WASHER, THRUST (1-5/8" O.D., 1-17/64" I.D., 3/32" thk.)	1
29	02-017748		RING, RETAINING (1-11/64" I.D. x 3/64" thk.)	1
30	02-017726		BEARING, OUTPUT SHAFT (1-1/4" I.D., 1-1/2" O.D., 3/4" wide)	1
31	02-017749		RING, RETAINING (2-31/32" O.D. x 5/64" thk.)	1
32	02-017756		YOKE, OUTPUT (to rear drive shaft)	1
33	02-017704		SLINGER, YOKE GUARD	1

TITLE

TRANSFER CASE (PLATE 1 OF 2)

PLATE  
NO.

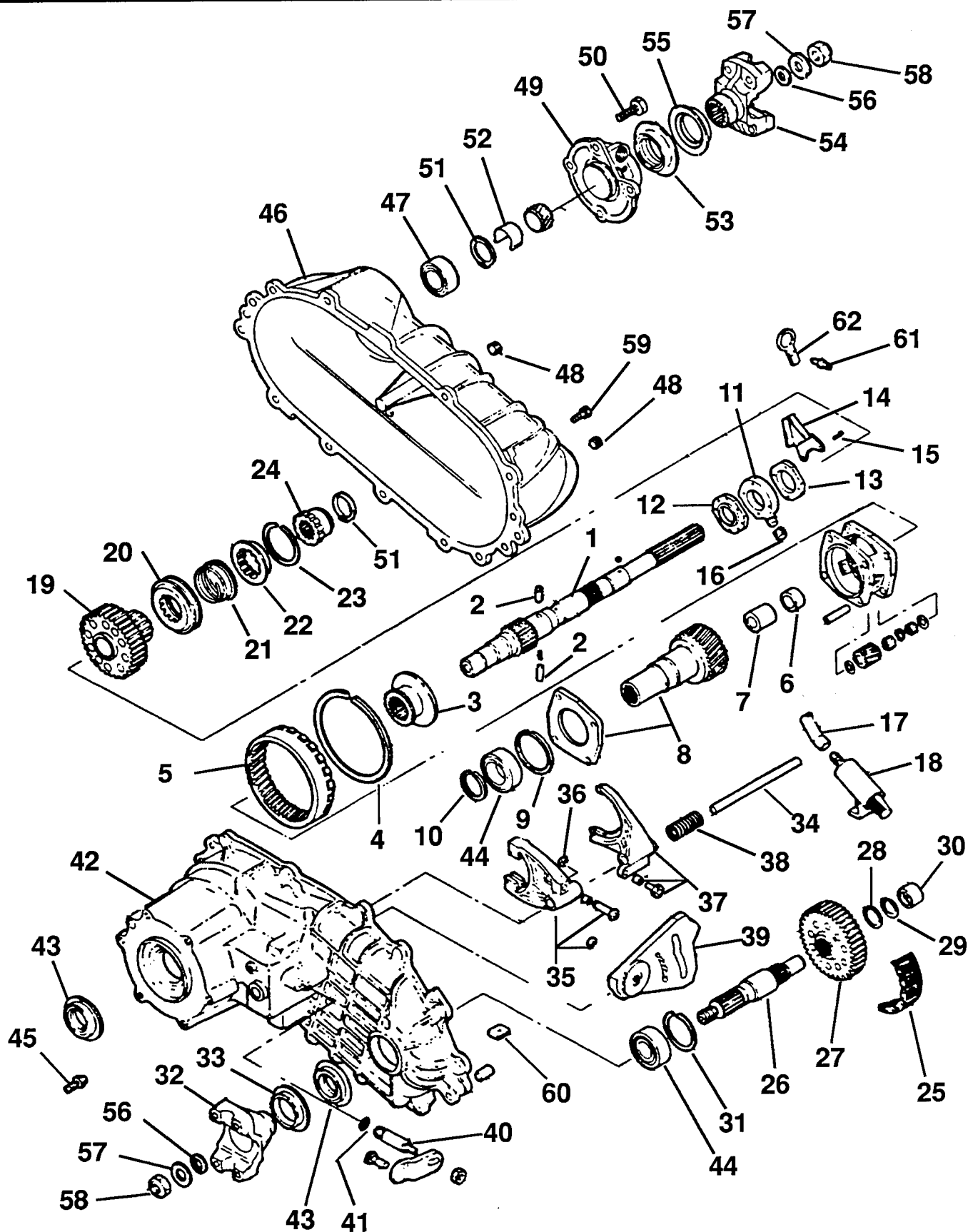
17.01

**SIMON AERIALS INC.**

REV. 12/10/90

PART  
NO.

02-017700



TITLE

TRANSFER CASE (PLATE 1 OF 2)

**SIMON AERIALS INC.**

REV. 12/10/90

PART  
NO.

02-017700

PLATE  
NO.

17.01



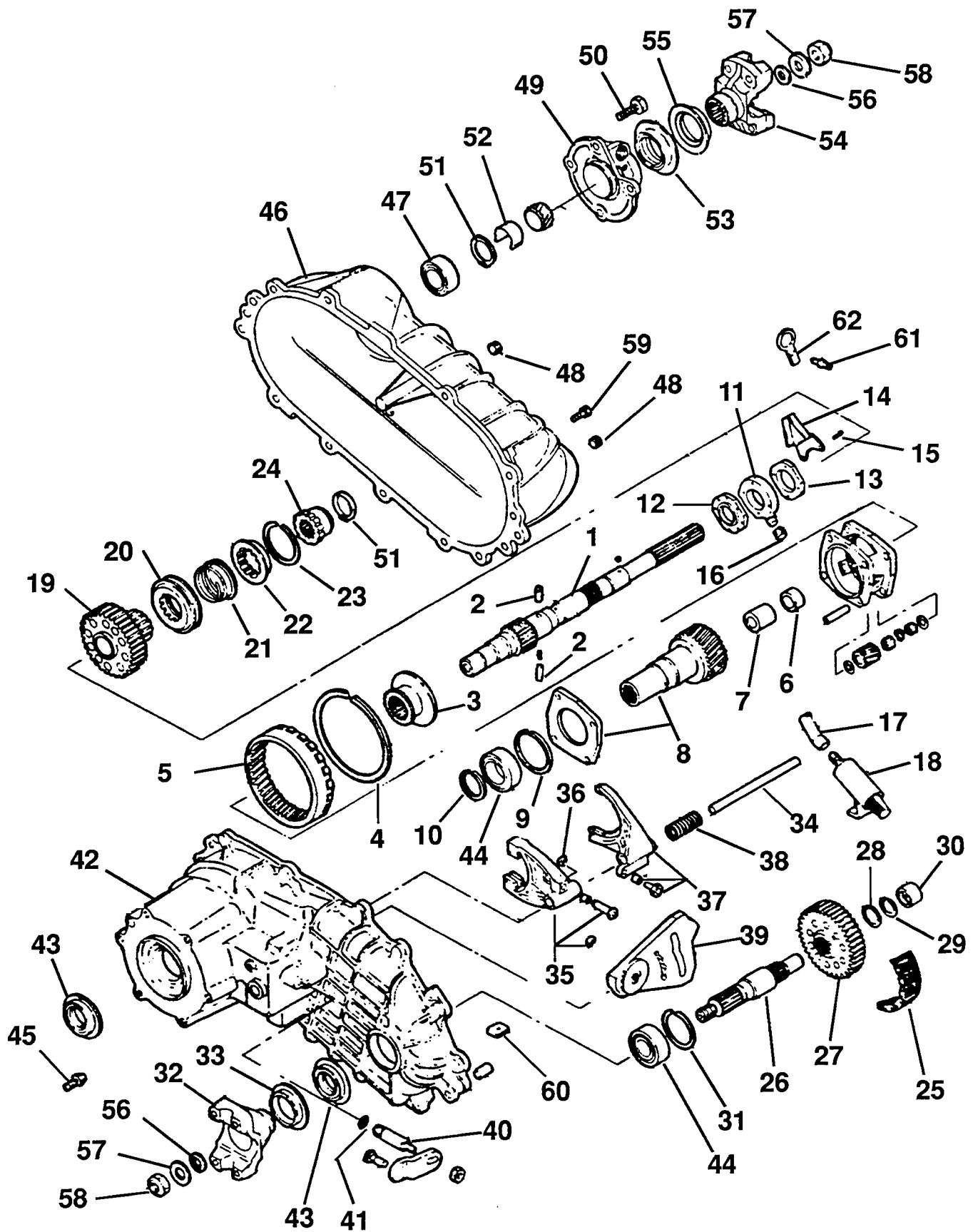
## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
34	02-017740		RAIL, SHIFT	1
35	02-017738		FORK, MODE SHIFT (2 Wheel/ 4Wheel Drive)	1
36	02-017739		CLIP, RETAINER	1
37	02-017743		FORK, RANGE SHIFT (High/ Low reduction)	1
38	02-017737		SPRING, SHIFT FORK	1
39	02-017713		SECTOR, SHIFT	1
40	02-017716		SHAFT, SHIFT	1
41	02-017742		O-RING	1
42	02-017702		CASE HALF (input/ output shaft side)	1
43	02-017758		SEAL, OIL	2
44	02-017705		BEARING, OUTPUT SHAFT	1
45	02-017708		STUD, MOUNTING	1
46	02-017701		CASE HALF (output shaft side)	1
47	02-017705		BEARING, OUTPUT SHAFT	1
48	02-017703		PLUG, FILL/ DRAIN	2
49	02-017715		RETAINER, OUTPUT SHAFT BEARING	1
50	02-017747		BOLT, BEARING RETAINER (M10-1.5 x 35 mm)	4
51	02-017751		RING, RETAINING (output bearing)	2
52	02-017755		SPACER, OUTPUT BEARING	1
53	02-017758		SEAL, OIL	1
54	02-017757		YOKE, OUTPUT (to front drive shaft)	1
	* 02-029802		FLANGE, OUTPUT (to front drive shaft)	1
55	02-017704		SLINGER, YOKE GUARD	1
56	02-017710		NUT, OUTPUT SHAFT FLANGE	2
57	02-017759		WASHER	2
58	02-017709		NUT, OUTPUT SHAFT (M22-1.5)	2
59	02-017747		BOLT, CASE (M10-1.5 x 35 mm)	12
60	02-017744		MAGNET	1
61	02-017734		STUD, CASE	1
62	02-017754		PLATE, ISOLATOR	1
63	02-017760		MOTOR ASSEMBLY, CASE (not shown)	1

TITLE	TRANSFER CASE (PLATE 2 OF 2)
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PLATE NO.	17.01	SIMON AERIALS INC.	REV. 09 SEP., 1993 THIS SHEET ONLY	PART NO.	02-017700
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REV. 09 SEP., 1993  
THIS SHEET ONLY



TITLE

TRANSFER CASE (PLATE 2 OF 2)

**SIMON AERIALS INC.**

REV. 12/10/90

PART  
NO.

02-017700

PLATE  
NO.

17.01

## PARTS LIST

[illegible]

TITLE DRIVE LINE DISCONNECT (OPTION) . . . AT60C

PLATE NO.	17.48	SIMON AERIALS INC.
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REV.13 DEC., 1991

PART NO. 3522420

**DRIVE DISENGAGEMENT INSTRUCTIONS**  
 DRIVE MUST BE DISENGAGED FOR TOWING, WINCHING OR MOVING DISABLED MACHINE.

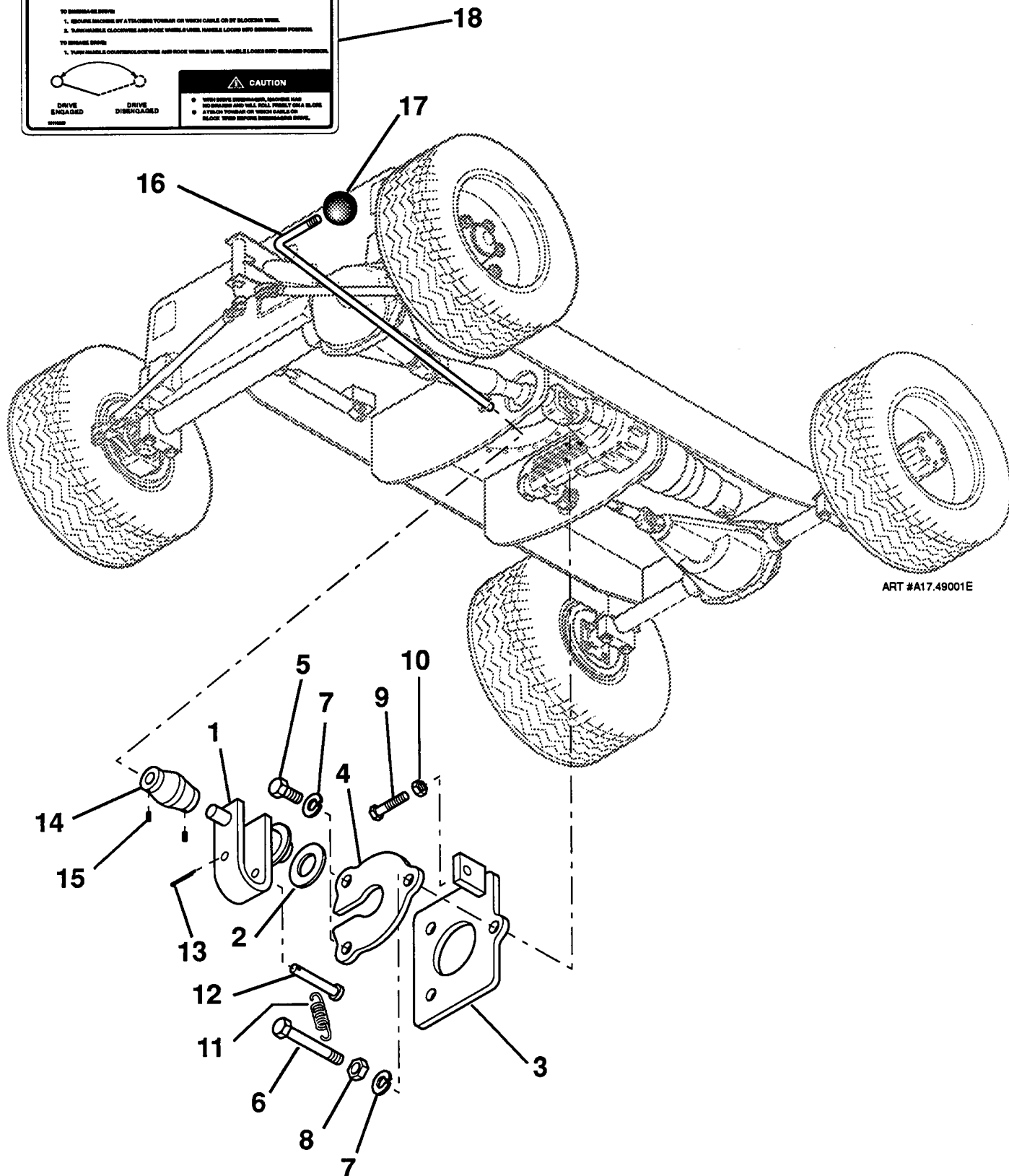
**TO DISENGAGE DRIVE:**  
 1. SECURE MACHINE BY ATTACHING TOWBAR OR WINCH CABLE ON BY BLASTING WHEEL.  
 2. TURN HANDLE CLOCKWISE AND POKE WHEEL LABEL, HANDLE LOCKS INTO DISENGAGEMENT POSITION.

**TO RE-ENGAGE DRIVE:**  
 1. TURN HANDLE COUNTERCLOCKWISE AND POKE WHEEL LABEL, HANDLE LOCKS INTO ENGAGEMENT POSITION.

**CAUTION**

- WHEN DRIVE IS DISENGAGED, MACHINE MAY REVERSE AND WILL ROLL, PREVENT OVER A FALL.
- A TOWBAR TOWING OR WINCH CABLE OR BLOCK WHEN DRIVE IS DISENGAGED FROM.

**DRIVE ENGAGED** **DRIVE DISENGAGED**



TITLE

DRIVE LINE DISCONNECT (OPTION) . . . AT60C

**SIMON AERIALS INC.**

REV.13 DEC., 1991

PART  
NO.

3522420

PLATE  
NO.

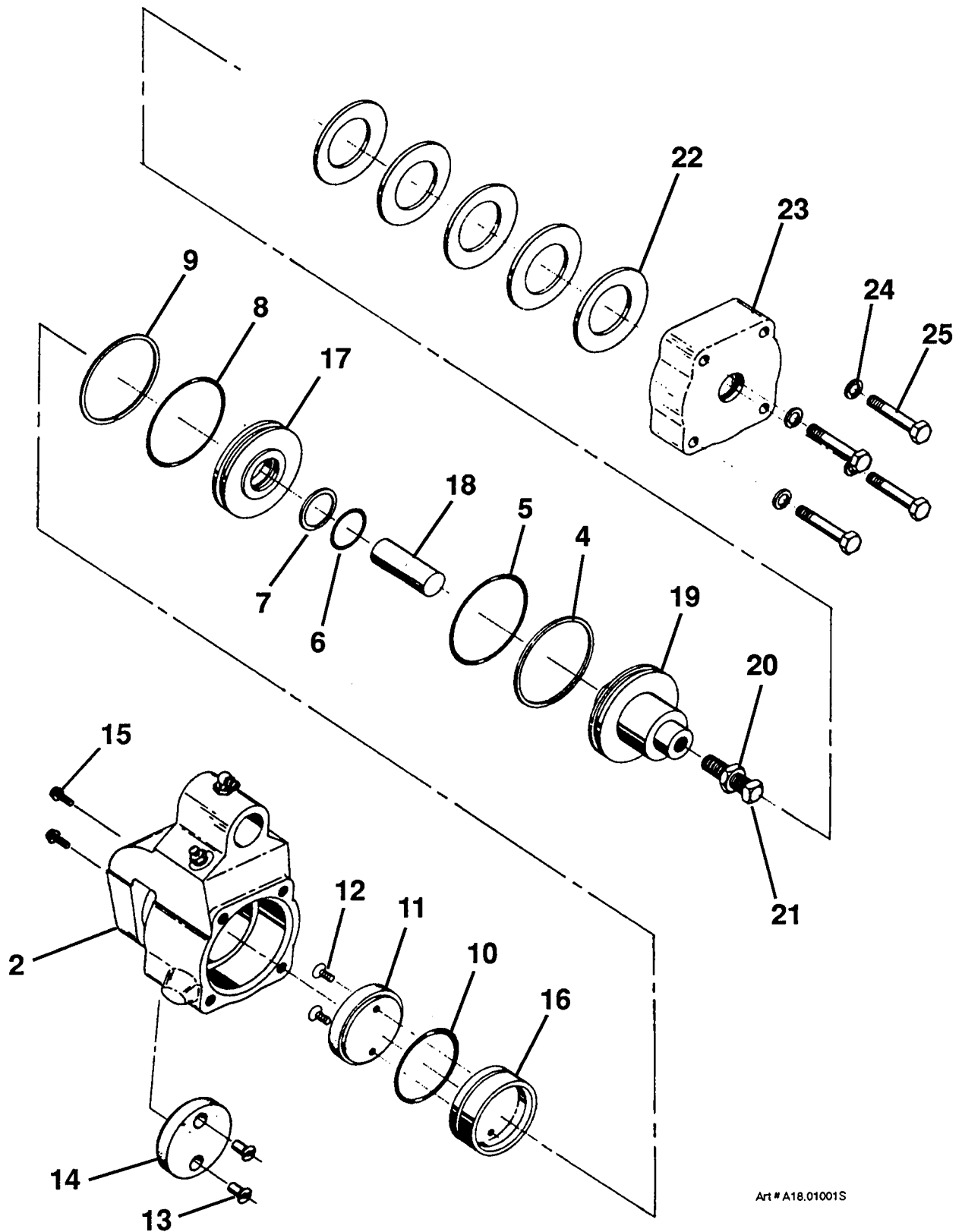
17.48

# PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-029900		CALIPER ASSEMBLY, DISC BRAKE	1
2			HOUSING, CALIPER	1
3	02-029901		REPAIR KIT, BRAKE CALIPER	1
4			RING, BACKUP	1
5			"O"-RING	1
6			"O"-RING	1
7			RING, BACKUP	1
8			"O"-RING	1
9			RING, BACKUP	1
10			"O"-RING	1
11			PAD, BRAKE LINING	1
12			SCREW	2
13			BUSHING	2
14			PAD, BRAKE LINING	1
15			SCREW	2
16	02-029904		PISTON	1
17	02-029908		PISTON	1
18	02-029903		ROD, PUSH	1
19	02-029907		PISTON	1
20	02-029906		NUT, LOCK	1
21	02-029905		SCREW, ADJUSTING	1
22	02-029902		SPRING, BELLEVILLE	5
23	02-029909		CAP, END	1
24	02-029910		WASHER, LOCK	4
25	02-029911		BOLT, HEX HEAD	4
			The following Brake Caliper attaching parts <b>are not</b> part of the Brake Caliper Assembly:	
26	07-003089		CAP SCREW, HEX HEAD (1/2"-13 x 2", Grade 5)	8
27	07-058400		NUT, LOCK (1/2"-13, Grade 8)	8
28	06-191900		ADAPTER, "O"-RING TO 37° (6-4 F50X)	6

TITLE BRAKE CALIPER ASSEMBLY, AT60C

PLATE NO. 18.01	<b>SIMON AERIALS INC.</b>	REV. 16 AUG., 1993	PART NO. 02-029900
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Art # A18.01001S

TITLE

BRAKE CALIPER ASSEMBLY, AT60C

**SIMON AERIALS INC.**

REV. 16 AUG., 1993

PART  
NO.

02-029900

PLATE  
NO.

18.01



## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	02-027600		AXLE ASSEMBLY (Type 1) (The "Type 1" axle was supplied on S/N through Y 1354, but <b>may have been replaced</b> . Tag on short side axle housing reads "FDS 75". To identify if tag is unreadable: Steer unit full left or right. View the exposed axle shaft at the steer knuckle. Universal joints on a "Type 1" axle fasten to the inner and outer axle shafts with separate clamps, screws and washers.)	1
	02-032900		AXLE ASSEMBLY (Type 2) (see plate 19.08)	
			<b>Note:</b> When ordering a complete axle assembly, "Type 2" will be provided.	
1	02-027601		AXLE SHAFT ASS'Y (Left) (36.3" long)	1
	02-027602		AXLE SHAFT ASS'Y (Right) (51.3" long)	1
2	07-090136		CAP SCREW, HEX HEAD (7/16"-20 x 1-1/2", Grade 8)	16
3	2171080		WASHER (Special)	16
4	02-027603		SEAL, U-JOINT OIL	2
5	02-027607		SPINDLE ASSEMBLY	2
6			SPINDLE WELDMENT	1
7	02-027604		WIPER, U-JOINT	1
8	02-027605		RETAINER	1
9	02-027606		FELT, SPINDLE AND U-JOINT	1
10	02-027608		STUD (Left hand thread)	6
	02-027609		STUD (Right hand thread)	6
11	02-027610		SEAL, OIL	2
12	02-027611		CONE AND ROLLER, WHEEL BEARING (inner)	2
13	02-027614		HUB, WHEEL BEARING	2
14			HUB	1
15	02-027612		CUP, WHEEL BEARING (inner)	1
16	02-027613		CUP, WHEEL BEARING (outer)	1
17	02-027615		CONE AND ROLLER, WHEEL BEARING (outer)	2
18	02-027616		NUT, WHEEL BEARING (inner)	2
19			WASHER, WHEEL BEARING NUT	2
20	02-027617		NUT, WHEEL BEARING (outer)	2
21	02-027618		FLANGE, DRIVE	2
22			SCREW	16
23			NUT	16
24	02-027619		CAP, DRIVE FLANGE	2
25			SCREW	8
26			NUT	8

**TITLE** FRONT (STEER AND DRIVE) AXLE ASSEMBLY, AT60C (PLATE 1 OF 3)

**PLATE NO.**

19.02

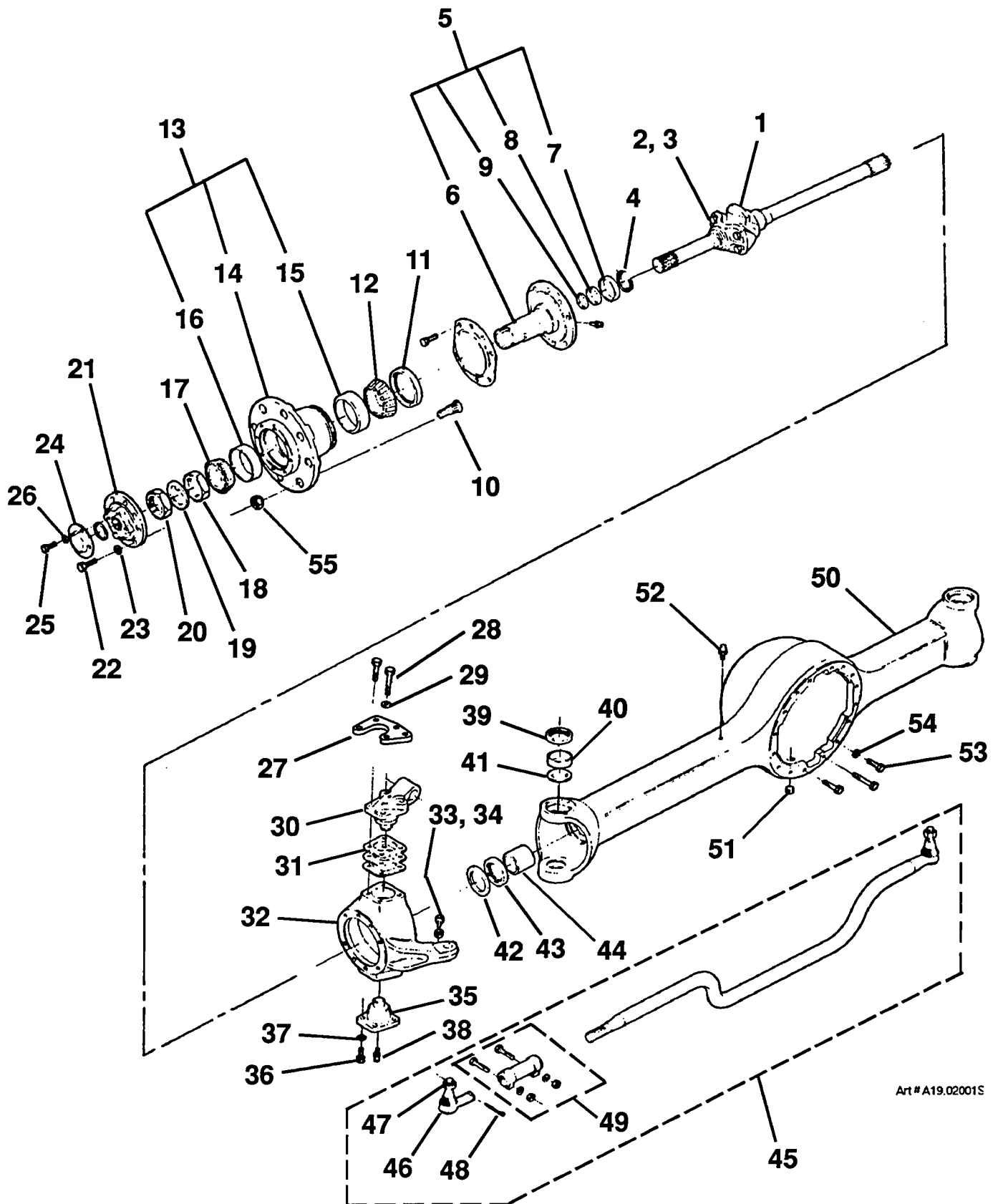
**SIMON AERIALS INC.**

REV. 16 AUG., 1994  
THIS SHEET ONLY

**PART NO.**

02-027600





Art # A19.02001S

TITLE FRONT (STEER AND DRIVE) AXLE ASSEMBLY, AT60C (PLATE 1 OF 3)

**SIMON AERIALS INC.**

REV. 09 NOV., 1992

PART  
NO.

02-027600

PLATE  
NO.

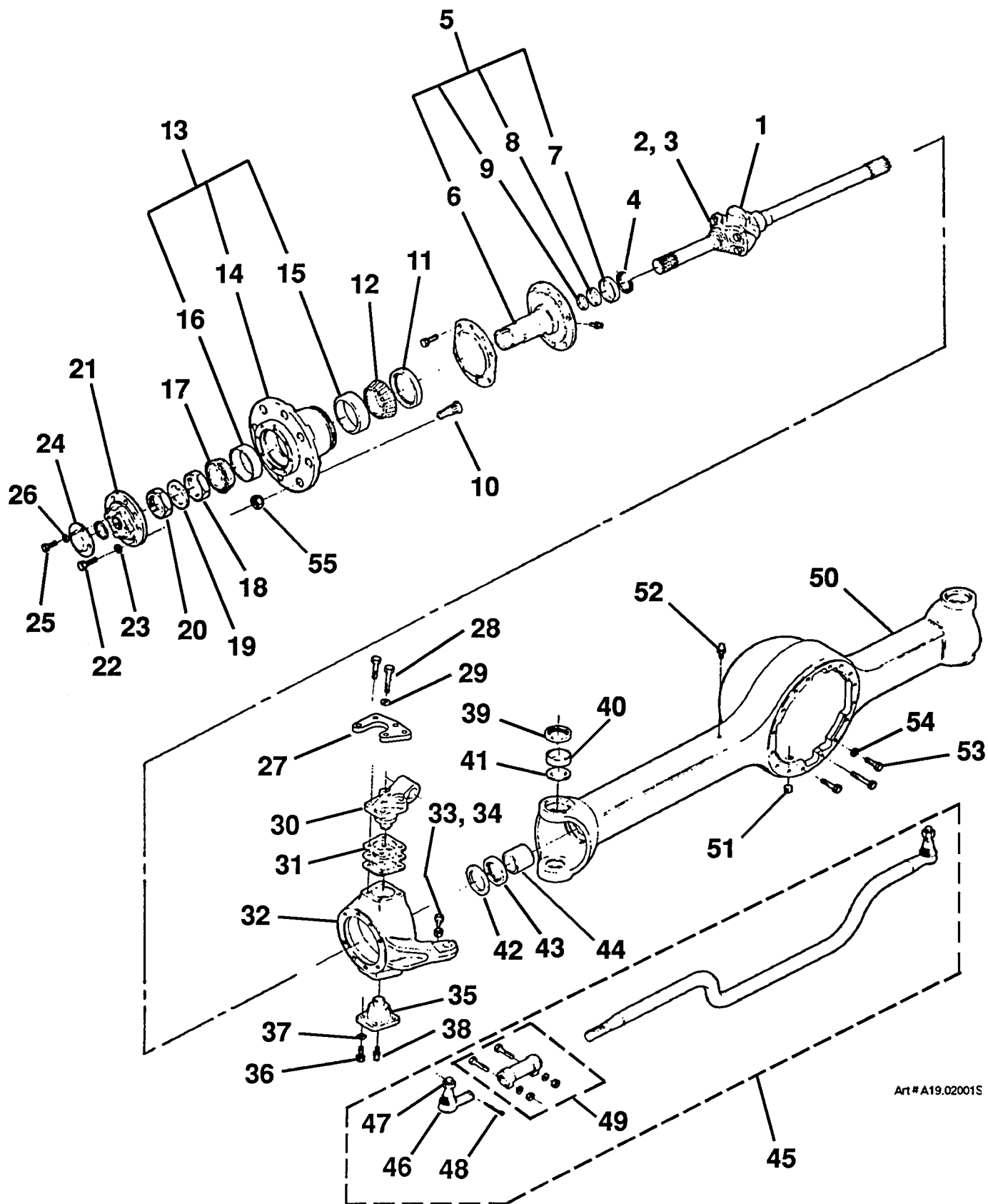
19.02

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
27	02-027620		ARM, STEERING (Left hand)	1
28	07-090300		SCREW, BUTTON HEAD (3/4"-10 x 2", Gr. 8) (outer holes)	4
	07-004154		CAP SCREW, HEX HEAD (3/4"-10 x 3-1/4", Gr. 8) (inner)	4
29			WASHER	8
30	02-027621		CAP, STEERING KNUCKLE UPPER (Left hand)	1
	02-027622		CAP, STEERING KNUCKLE UPPER (Right hand)	1
31			SHIM	A.R.
32	02-027623		KNUCKLE, STEERING (Left hand)	1
	02-027624		KNUCKLE, STEERING (Right hand)	1
33	07-090145		CAP SCREW, SOCKET HEAD (9/16"-12 x 2-1/4")	2
34			NUT, HEX (9/16"-12)	2
35	02-027625		CAP, STEERING KNUCKLE LOWER	2
36			SCREW	8
37			WASHER	8
38			FITTING, GREASE	2
39	02-027626		SEAL, TRUNNION OIL	4
40	02-027627		BUSHING, TRUNNION	4
41	02-027628		PLUG, TRUNNION	4
42	02-027629		WASHER, U-JOINT OIL SEAL	2
43	02-027630		SEAL, U-JOINT OIL	2
44	02-027631		BUSHING, U-JOINT	2
45	02-027634		TIE ROD ASSEMBLY	1
46	02-027632		END, TIE ROD	1
47			NUT	1
48			PIN, COTTER	1
49	02-027633		CLAMP ASSEMBLY, TIE ROD	1
50			HOUSING, AXLE	1
51	02-025220		PLUG, OIL DRAIN	4
52			BREATHER	1
53			CAP SCREW (Differential carrier attaching)	
			(12 short, 2 medium, 2 long)	16
54			WASHER (Differential carrier attaching)	12
55	02-027650		NUT, WHEEL LUG (Left) (3/4"-16, Left hand thread)	6
	02-027649		NUT, WHEEL LUG (Right) (3/4"-16, Right hand thread)	6
56	02-022229		SEALANT, RTV (for differential carrier cover)	
			(Ford # D6AZ 19562-ba or equivalent)	A.R.

**TITLE** FRONT (STEER AND DRIVE) AXLE ASSEMBLY, AT60C (PLATE 2 OF 3)

<b>PLATE NO.</b>	19.02	<b>SIMON AERIALS INC.</b>	REV. 09 NOV., 1992	<b>PART NO.</b>	02-027600
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Art # A19.02001S

TITLE FRONT (STEER AND DRIVE) AXLE ASSEMBLY, AT60C (PLATE 2 OF 3)

**SIMON AERIALS INC.**

REV. 09 NOV., 1992

PART  
NO.

02-027600

PLATE  
NO.

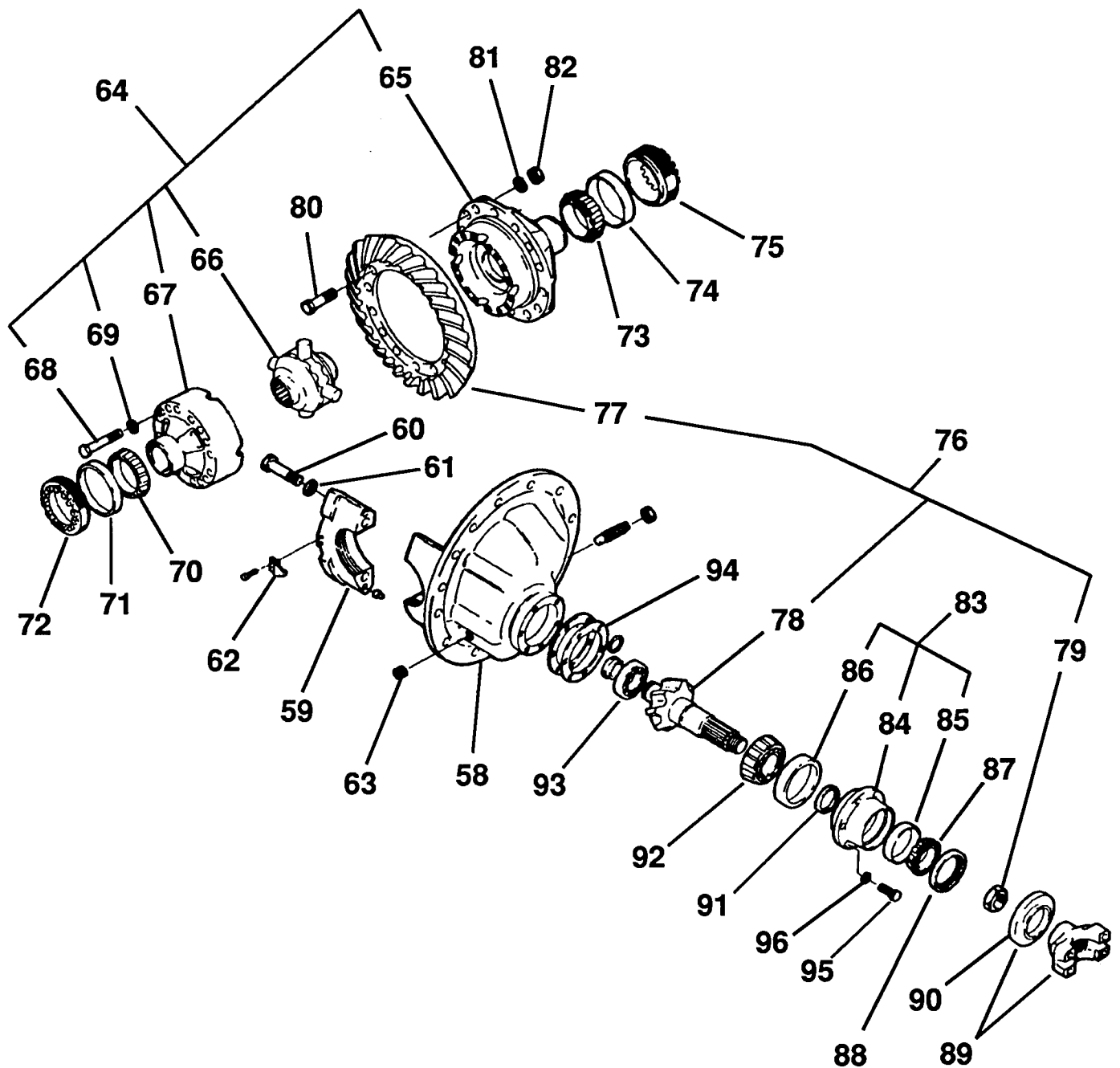
19.02

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
57	02-025237		CARRIER AND CAP ASSEMBLY, DIFFERENTIAL	1
58			CARRIER, DIFFERENTIAL	1
59			CAP, DIFFERENTIAL CARRIER	2
60			BOLT, DIFFERENTIAL CARRIER CAP	4
61			WASHER, DIFFERENTIAL CARRIER CAP	4
62			LOCK RING, DIFFERENTIAL BEARING ADJUSTMENT	1
63	02-025220		PLUG	1
64	02-025240		CASE ASSEMBLY, DIFFERENTIAL	1
65			CASE, DIFFERENTIAL	1
66	02-027642		DIFFERENTIAL ASSEMBLY, NO-SPIN	1
67			COVER, DIFFERENTIAL CASE	1
68			BOLT, DIFFERENTIAL CASE	8
69			WASHER, DIFFERENTIAL CASE	8
70	02-027645		CONE AND ROLLER, DIFFERENTIAL BEARING (Right)	1
71	02-027644		CUP, DIFFERENTIAL BEARING (Right hand)	1
72	02-027643		RING, ADJUSTING (Right hand)	1
73	02-027647		CONE AND ROLLER, DIFFERENTIAL BEARING (Left)	1
74	02-027646		CUP, DIFFERENTIAL BEARING (Left hand)	1
75	02-027643		RING, ADJUSTING (Left hand)	1
76	02-025226		GEAR SET, REAR AXLE RING AND PINION (7.17:1 Ratio)	1
77			GEAR, RING	1
78			GEAR, PINION	1
79			NUT, PINION	1
80	02-025243		BOLT (Ring gear to Differential case)	12
81	02-025229		WASHER (Ring gear to Differential case)	12
82	02-025242		NUT (Ring gear to Differential case)	12
83	02-025230		CAGE ASSEMBLY, PINION BEARING	1
84			CAGE, PINION BEARING	1
85	02-027637		CUP, PINION BEARING (outer)	1
86	02-027638		CUP, PINION BEARING (inner)	1
87	02-027636		CONE AND ROLLER, PINION BEARING (outer)	1
88	02-027635		SEAL, PINION OIL	1
89	02-027641		YOKE AND DEFLECTOR ASSEMBLY, INPUT	1
90	02-032909		DEFLECTOR, INPUT YOKE	1
91	02-025231		SPACER, PINION BEARING	1
92	02-027639		CONE AND ROLLER, PINION BEARING (inner)	1
93	02-027640		BEARING, PINION (rear)	1
94	02-025233		SHIM, PINION [.003 (.076 mm)]	A.R.
	02-025234		SHIM, PINION [.005 (.127 mm)]	A.R.
	02-025235		SHIM, PINION [.008 (.203 mm)]	A.R.
	02-025236		SHIM, PINION [.020 (.508 mm)]	A.R.
95	02-025228		CAP SCREW, PINION BEARING CAGE	8
96	02-025229		WASHER, PINION BEARING CAGE	8

**TITLE FRONT (STEER) AXLE ASSEMBLY, AT60C (PLATE 3 OF 3, DIFFERENTIAL)**

<b>PLATE NO.</b>	<b>19.02</b>	<b>SIMON AERIALS INC.</b>	REV. 09 NOV., 1992	<b>PART NO.</b>	<b>02-027600</b>
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TITLE FRONT (STEER) AXLE ASSEMBLY, AT60C (PLATE 3 OF 3, DIFFERENTIAL)

**SIMON AERIALS INC.**

REV. 09 NOV., 1992

PART  
NO.

02-027600

PLATE  
NO.

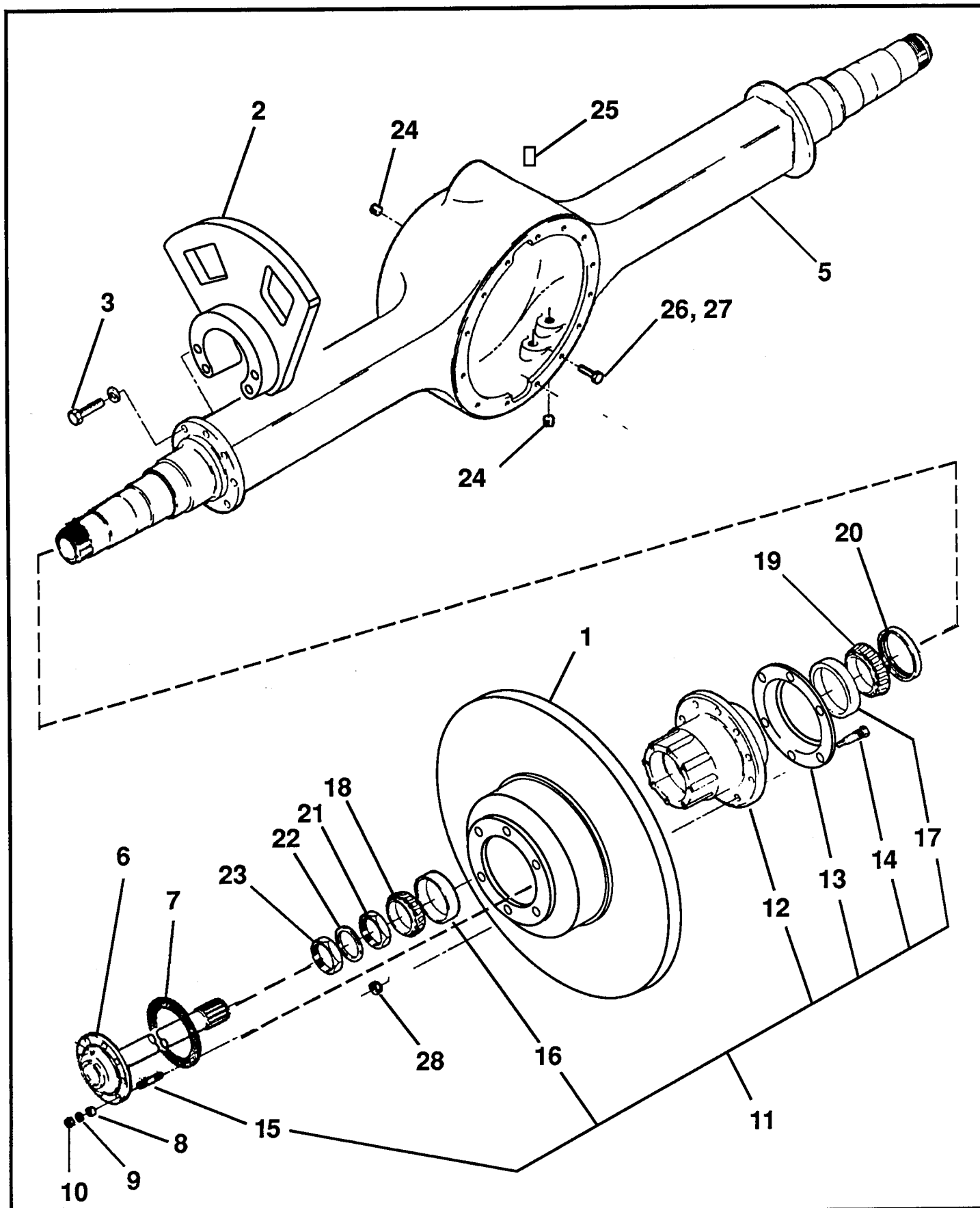
19.02

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2153810		ROTOR, DISC BRAKE	2
2	2155630		BRACKET, BRAKE CALIPER MOUNTING	2
3	07-090128		CAP SCREW, HEX HEAD (9/16"-18 x 3")	18
4	02-022229		SEALANT, RTV (for axle center cover) (Ford # D6AZ 19562-ba or equivalent)	A.R.
The above items <b>are not</b> part of the Axle Assembly. The following items <b>are</b> part of the Axle Assembly:				
5	02-025219		HOUSING, AXLE	1
6	02-025203		SHAFT, AXLE (Left)	1
	02-025204		SHAFT, AXLE (Right)	1
7	02-025205		GASKET	2
8	02-025201		DOWEL, TAPERED (Axle shaft to hub)	16
9	02-025217		WASHER (Axle shaft to hub)	16
10	02-025216		NUT (Axle shaft to hub)	16
11	02-025208		HUB, WHEEL (Left)	1
	02-025209		HUB, WHEEL (Right)	1
12			HUB, WHEEL	1
13	02-025210		SLINGER, HUB OIL	1
14	07-090127		STUD, WHEEL (Left) (3/4"-16, Left hand thread)	6
	07-090126		STUD, WHEEL (Right) (3/4"-16, Right hand thread)	6
15	02-025202		STUD (Axle shaft to hub)	8
16	02-025207		CUP, WHEEL BEARING OUTER	1
17	02-025213		CUP, WHEEL BEARING INNER	1
18	02-025206		CONE AND ROLLER, WHEEL BEARING OUTER	2
19	02-025214		CONE AND ROLLER, WHEEL BEARING INNER	2
20	02-025215		SEAL, WHEEL BEARING OIL	2
21	02-027616		NUT, WHEEL BEARING LOCK (Inner)	2
22	02-025218		WASHER, WHEEL BEARING NUT	2
23	02-027617		NUT, WHEEL BEARING LOCK (Outer)	2
24	02-025220		PLUG	4
25	02-025221		BREATHER	1
26	02-025222		CAP SCREW (Short) (Differential carrier attaching)	8
	02-025223		CAP SCREW (Long) (Differential carrier attaching)	4
27	02-025224		WASHER (Differential carrier attaching)	12
28	02-027650		NUT, WHEEL LUG (Left) (3/4"-16, Left hand thread)	6
	02-027649		NUT, WHEEL LUG (Right) (3/4"-16, Right hand thread)	6

TITLE REAR (DRIVE) AXLE ASSEMBLY, AT60C (PLATE 1 OF 2)

PLATE NO.	19.03	<b>SIMON AERIALS INC.</b>	REV. 12/12/91	PART NO. 02-025200
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TITLE REAR (DRIVE) AXLE ASSEMBLY, AT60C (PLATE 1 OF 2)

**SIMON AERIALS INC.**

REV. 12/12/91

PART NO. 02-025200

PLATE NO. 19.03

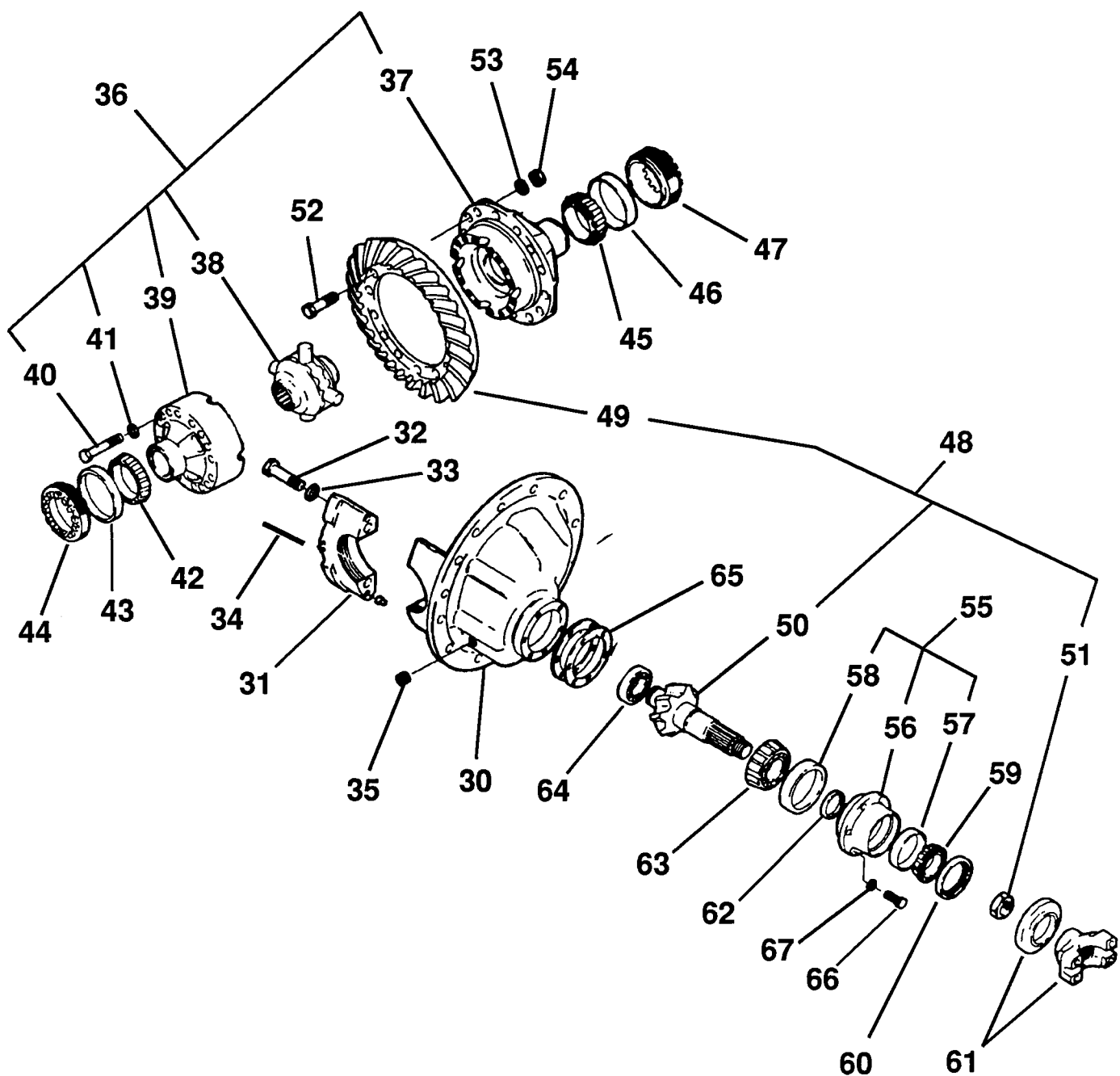


## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
29	02-025237		CARRIER AND CAP ASSEMBLY, DIFFERENTIAL	1
30			CARRIER, DIFFERENTIAL	1
31			CAP, DIFFERENTIAL CARRIER	2
32			BOLT, DIFFERENTIAL CARRIER CAP	4
33			WASHER, DIFFERENTIAL CARRIER CAP	4
34	02-025238		PIN, COTTER	1
35	02-025220		PLUG	1
36	02-025240		CASE ASSEMBLY, DIFFERENTIAL	1
37			CASE, DIFFERENTIAL	1
38	02-027642		DIFFERENTIAL ASSEMBLY, NO-SPIN	1
39			COVER, DIFFERENTIAL CASE	1
40			BOLT, DIFFERENTIAL CASE	
41			WASHER, DIFFERENTIAL CASE	
42	02-027645		CONE AND ROLLER, DIFFERENTIAL BEARING (Right hand)	1
43	02-025241		CUP, DIFFERENTIAL BEARING (Right hand)	1
44	02-027643		RING, ADJUSTING (Right hand)	1
45	02-027647		CONE AND ROLLER, DIFFERENTIAL BEARING (Left hand)	1
46	02-027646		CUP, DIFFERENTIAL BEARING (Left hand)	1
47	02-025239		RING, ADJUSTING (Left hand)	1
48	02-025226		GEAR SET, REAR AXLE RING AND PINION (7.17:1 Ratio)	1
49			GEAR, RING	1
50			GEAR, PINION	1
51			NUT, PINION	1
52	02-025243		BOLT (Ring gear to Differential case)	12
53	02-025229		WASHER (Ring gear to Differential case)	12
54	02-025242		NUT (Ring gear to Differential case)	12
55	02-025230		CAGE ASSEMBLY, PINION BEARING	1
56			CAGE, PINION BEARING	1
57			CUP, PINION BEARING OUTER	1
58			CUP, PINION BEARING INNER	1
59	02-025227		CONE AND ROLLER, PINION BEARING OUTER	1
60	02-027635		SEAL, PINION OIL	1
61	02-025225		YOKE AND DEFLECTOR ASSEMBLY, INPUT	1
62	02-025231		SPACER, PINION BEARING	1
63	02-025232		CONE AND ROLLER, PINION BEARING INNER	1
64	02-027640		BEARING, PINION REAR	1
65	02-025233		SHIM, PINION [.003 (.076 mm)]	A.R.
	02-025234		SHIM, PINION [.005 (.127 mm)]	A.R.
	02-025235		SHIM, PINION [.008 (.203 mm)]	A.R.
	02-025236		SHIM, PINION [.020 (.508 mm)]	A.R.
66	02-025228		CAP SCREW, PINION BEARING CAGE	8
67	02-025229		WASHER, PINION BEARING CAGE	8

TITLE REAR (DRIVE) AXLE ASSEMBLY, AT60C (PLATE 2 OF 2, DIFFERENTIAL)

PLATE NO.	19.03	<b>SIMON AERIALS INC.</b>	REV. 12/12/91	PART NO. 02-025200
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TITLE REAR (DRIVE) AXLE ASSEMBLY, AT60C (PLATE 2 OF 2, DIFFERENTIAL)

**SIMON AERIALS INC.**

REV. 12/12/91

PART NO. 02-025200

PLATE NO. 19.03

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	02-027600 02-032900		AXLE ASSEMBLY (Type 1) (see plate 19.02) AXLE ASSEMBLY (Type 2) (The <b>"Type 2"</b> axle is original equipment on S/N Y 1355 and up, and <b>may have been used as a replacement</b> on earlier units. Tag on short side axle housing reads "FDS 90". To identify if tag unreadable: Steer unit full left or right. View the exposed axle shaft at the steer knuckle. The inner and outer axle shafts on a <b>"Type 2"</b> axle have forged ends that surround the universal joint bearing caps, with no additional fasteners.)	1
			<b>Note:</b> When ordering a complete axle assembly, <b>"Type 2"</b> will be provided.	
1	02-032901 02-032902		AXLE SHAFT ASS'Y (Left) (36.3" long) AXLE SHAFT ASS'Y (Right) (51.3" long)	1 1
2	02-032917		SEAL, U-JOINT OIL	2
3	02-023904		SPINDLE ASSEMBLY	2
4			SPINDLE WELDMENT	1
5			SLEEVE, WEAR	1
6			WASHER, THRUST	1
7	02-027605		RETAINER	1
8	02-027606		FELT, SPINDLE AND U-JOINT	1
9			FITTING, GREASE	2
10			SCREW (Spindle to steering knuckle)	16
11			WASHER (Spindle to steering knuckle)	16
12	02-027610		SEAL, OIL	2
13	02-027611		CONE AND ROLLER, WHEEL BEARING (inner)	2
14	02-027614		HUB, WHEEL BEARING	2
15			HUB	1
16	02-027612		CUP, WHEEL BEARING (inner)	1
17	02-027613		CUP, WHEEL BEARING (outer)	1
18	02-027608 02-027609		STUD (Left hand thread) STUD (Right hand thread)	6 6
19	02-027615		CONE AND ROLLER, WHEEL BEARING (outer)	2
20			NUT, WHEEL BEARING (inner)	2
21			WASHER	2
22			NUT, WHEEL BEARING (outer)	2
23	02-027618		FLANGE, DRIVE	2
24			SCREW	16
25			WASHER	16
26	02-027619		CAP, DRIVE FLANGE	2
27			SCREW	8
28			WASHER	8

**TITLE** FRONT (STEER AND DRIVE) AXLE ASSEMBLY, AT60C (PLATE 1 OF 3)

**PLATE NO.**

19.08

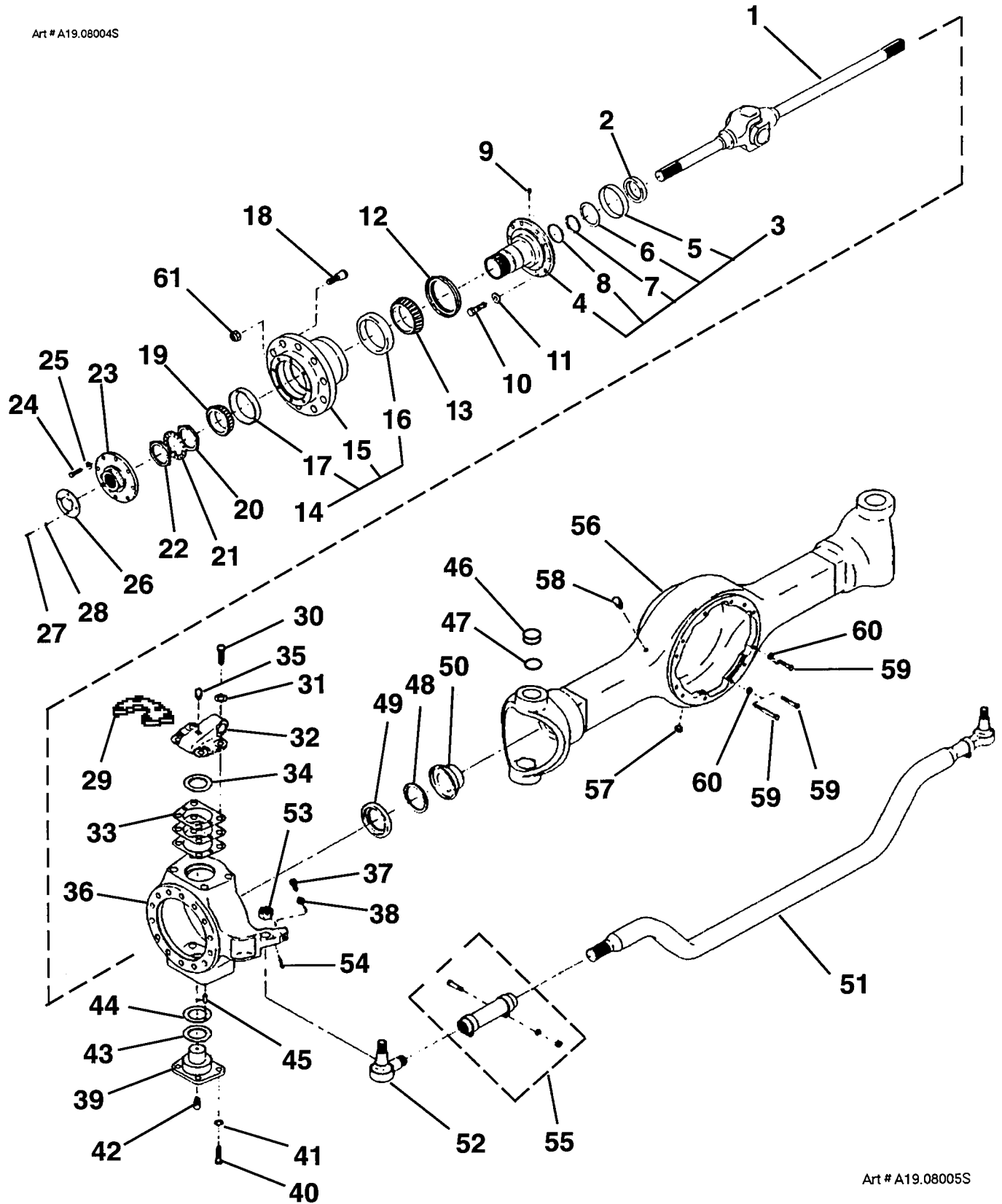
**SIMON AERIALS INC.**

REV. 16 AUG., 1994

**PART NO.**

02-032900

Art # A19.08004S



Art # A19.08005S

TITLE FRONT (STEER AND DRIVE) AXLE ASSEMBLY, AT60C (PLATE 1 OF 3)

**SIMON AERIALS INC.**

REV. 16 AUG., 1994

PART  
NO.

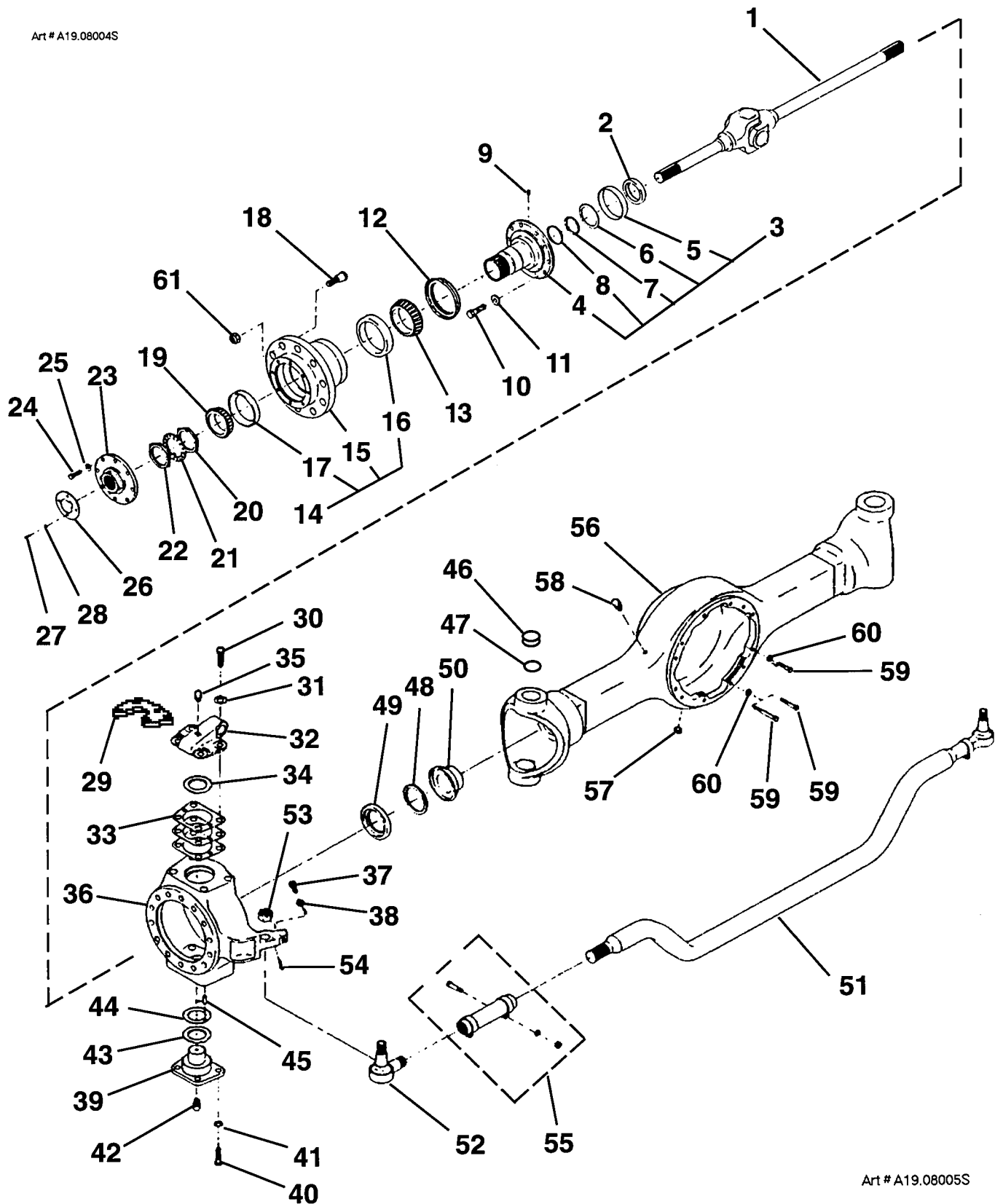
02-032900

PLATE  
NO.

19.08

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
29	02-027620		ARM, STEERING (Left hand) ( <b>without</b> Tow Package)	1
	2171210		ARM, STEERING (Left hand) ( <b>with</b> Tow Package)	1
30	07-090300		SCREW, BUTTON HEAD (3/4"-10 x 2", Gr. 8) (outer holes)	4
	07-004154		CAP SCREW, HEX HEAD (3/4"-10 x 3-1/4", Gr. 8) (inner)	4
31			WASHER	8
32	02-027621		CAP, STEERING KNUCKLE (Upper, left hand)	1
	02-027622		CAP, STEERING KNUCKLE (Upper, right hand)	1
33			SHIM	A.R.
34			SEAL, GREASE	2
35			FITTING, GREASE	2
36	02-027623		KNUCKLE, STEERING (Left hand)	1
	02-027624		KNUCKLE, STEERING (Right hand)	1
37	07-090145		CAP SCREW, SOCKET HEAD (9/16"-12 x 2-1/4")	2
38			NUT, HEX (9/16"-12)	2
39			CAP, STEERING KNUCKLE (lower)	2
40			SCREW	8
41			WASHER	8
42			FITTING, GREASE	2
43	02-027626		SEAL, GREASE	2
44			WASHER, THRUST	2
45			PIN	2
46	02-027626		SEAL, TRUNNION OIL	4
47	02-027628		PLUG, TRUNNION	4
48	02-027629		WASHER, U-JOINT OIL SEAL	2
49	02-027630		SEAL, U-JOINT OIL	2
50	02-027631		BUSHING, U-JOINT	2
51	02-032903		TIE ROD ASSEMBLY	1
52	02-027632		END, TIE ROD	1
53			NUT	1
54			PIN, COTTER	1
55	02-027633		CLAMP ASSEMBLY, TIE ROD	1
56			HOUSING, AXLE	1
57	02-025220		PLUG, OIL DRAIN	4
58			BREATHER	1
59			CAP SCREW (Differential carrier attaching) (12 short, 2 medium, 2 long)	16
60			WASHER (Differential carrier attaching)	16
61	02-027650		NUT, WHEEL LUG (Left) (3/4"-16, Left hand thread)	6
	02-027649		NUT, WHEEL LUG (Right) (3/4"-16, Right hand thread)	6
62	02-022229		SEALANT, RTV (for differential carrier cover) (Ford # D6AZ 19562-ba or equivalent)	A.R.
TITLE FRONT (STEER AND DRIVE) AXLE ASSEMBLY, AT60C (PLATE 2 OF 3)				
PLATE NO.	19.08	SIMON AERIALS INC.		PART NO. 02-032900
REV. 16 AUG., 1994				

Art # A19.08004S



Art # A19.08005S

TITLE FRONT (STEER AND DRIVE) AXLE ASSEMBLY, AT60C (PLATE 2 OF 3)

**SIMON AERIALS INC.**

REV. 16 AUG., 1994

PART  
NO.

02-032900

PLATE  
NO.

19.08

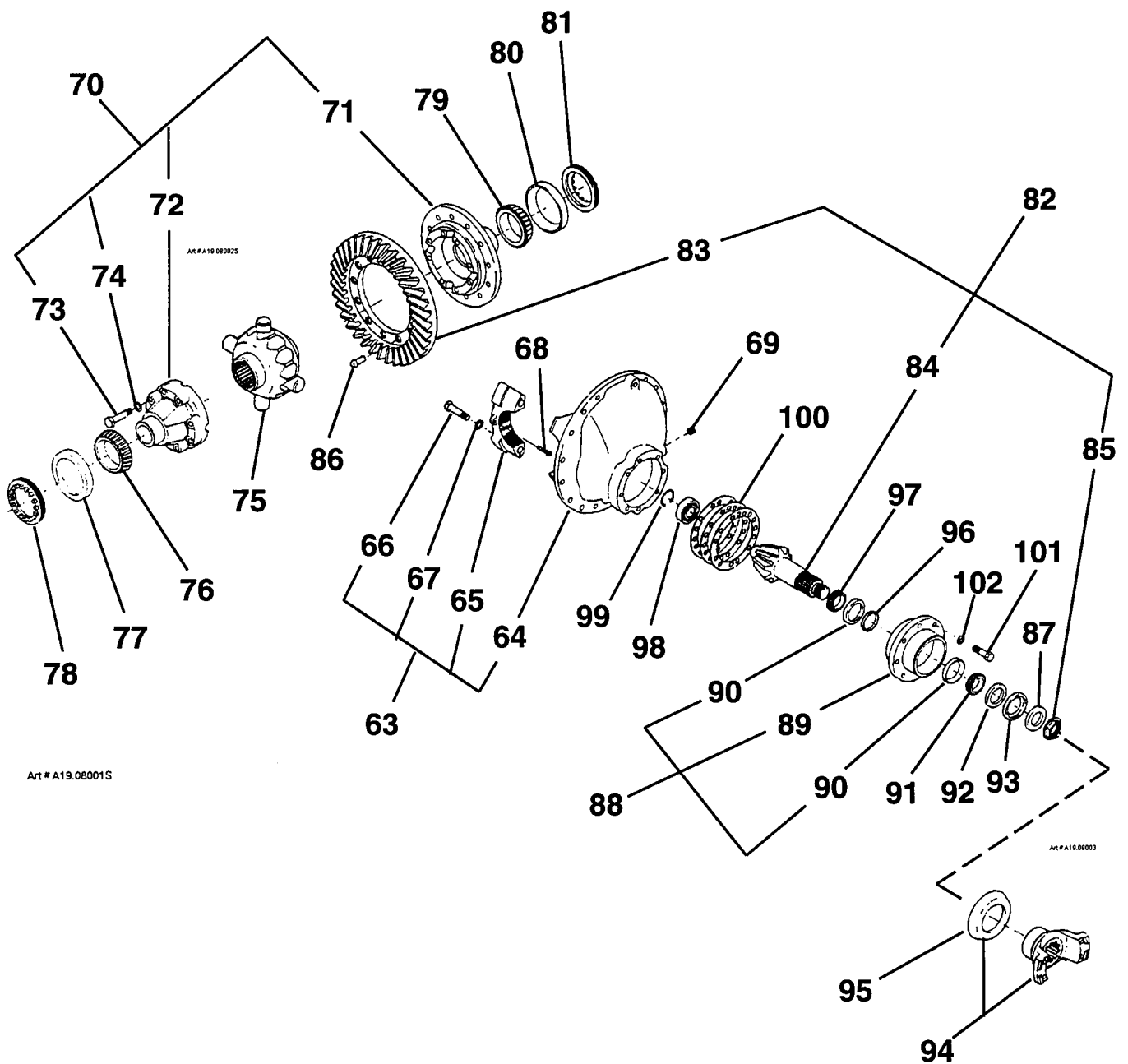


ITEM	PART NO	SEE SECTION	
63	02-032914		CARR
64			CA
65			CA
66			BO
67			WA
68			PIN, C
69	02-025220		PLUG
70			CASE
71			CA
72			CO
73			BO
74			WA
75	02-027642		DIFFE
76	02-027645		CONE
77	02-032916		CUP, I
78	02-032915		RING,
79	02-027644		CONE
80	02-032916		CUP, I
81	02-032915		RING,
82	02-025226		GEAR
83			GE
84			GE
85			NU
86			RIVET
87	02-032910		WASH
88			CAGE
89			CA
90	02-032908		CU
91	02-032907		CONE
92			WASH
93	02-032906		SEAL,
94	02-027641		YOKE
95	02-032909		DE
96	02-032907		SPACI
97			CONE
98	02-027640		BEARI
99	02-032911		RING,
100			SHIM,
	02-032912		SHIM,
	02-032913		SHIM,
101	02-025228		CAP S
102	02-025229		WASH

TITLE FRONT (STEER) AXLE AS

PLATE  
NO. 19.08 SIMON AE





TITLE FRONT (STEER) AXLE ASSEMBLY, AT60C (PLATE 3 OF 3, DIFFERENTIAL)

**SIMON AERIALS INC.**

REV. 16 AUG., 1994

PART  
NO.

02-032900

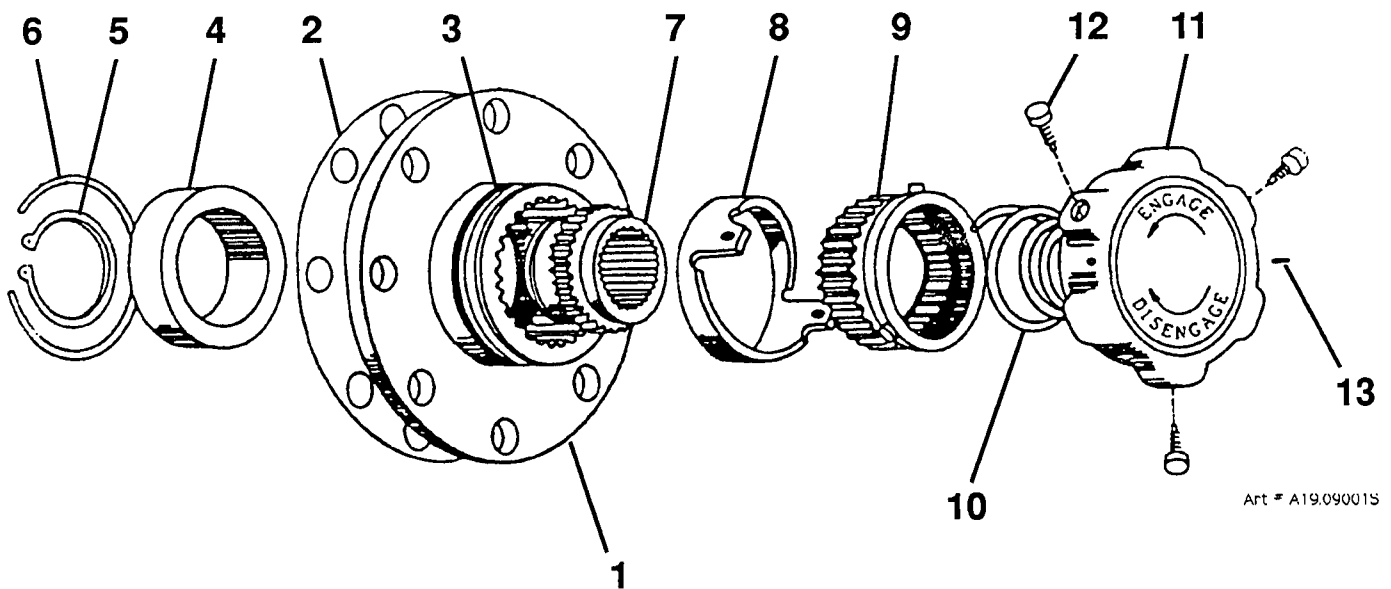
PLATE  
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19.08

[illegible]

## LOCKING HUB ASSEMBLY, AT 60C

NEW 03 DEC., 1992



TITLE

LOCKING HUB ASSEMBLY, AT 60C

**SIMON AERIALS INC.**

NEW 03 DEC., 1992

PART  
NO.

02-041400

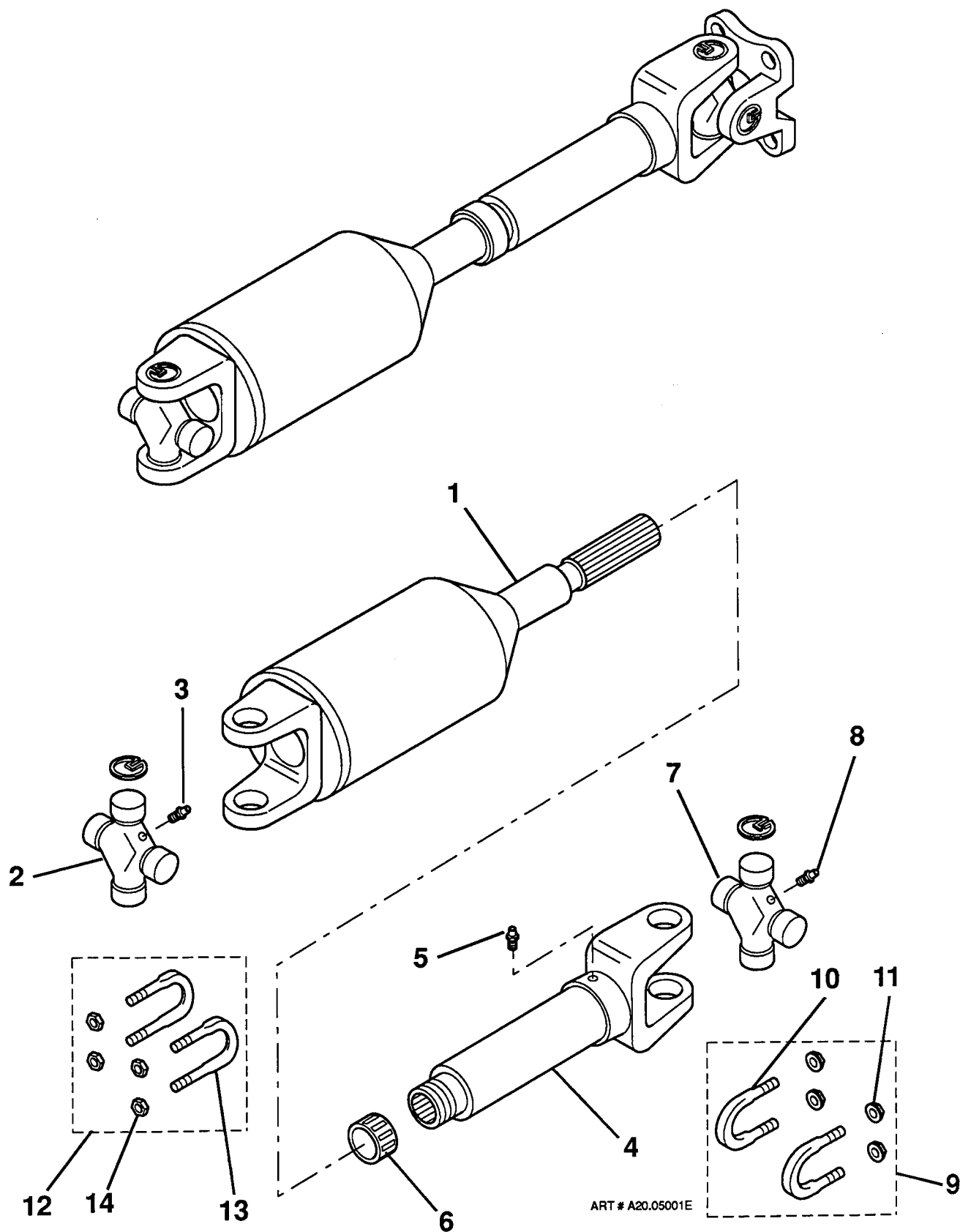
PLATE  
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19.09

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## FRONT DRIVE SHAFT

02-027700



TITLE

FRONT DRIVE SHAFT

**SIMON AERIALS INC.**

REV.12/11/91

PART  
NO.

02-027700

PLATE  
NO.

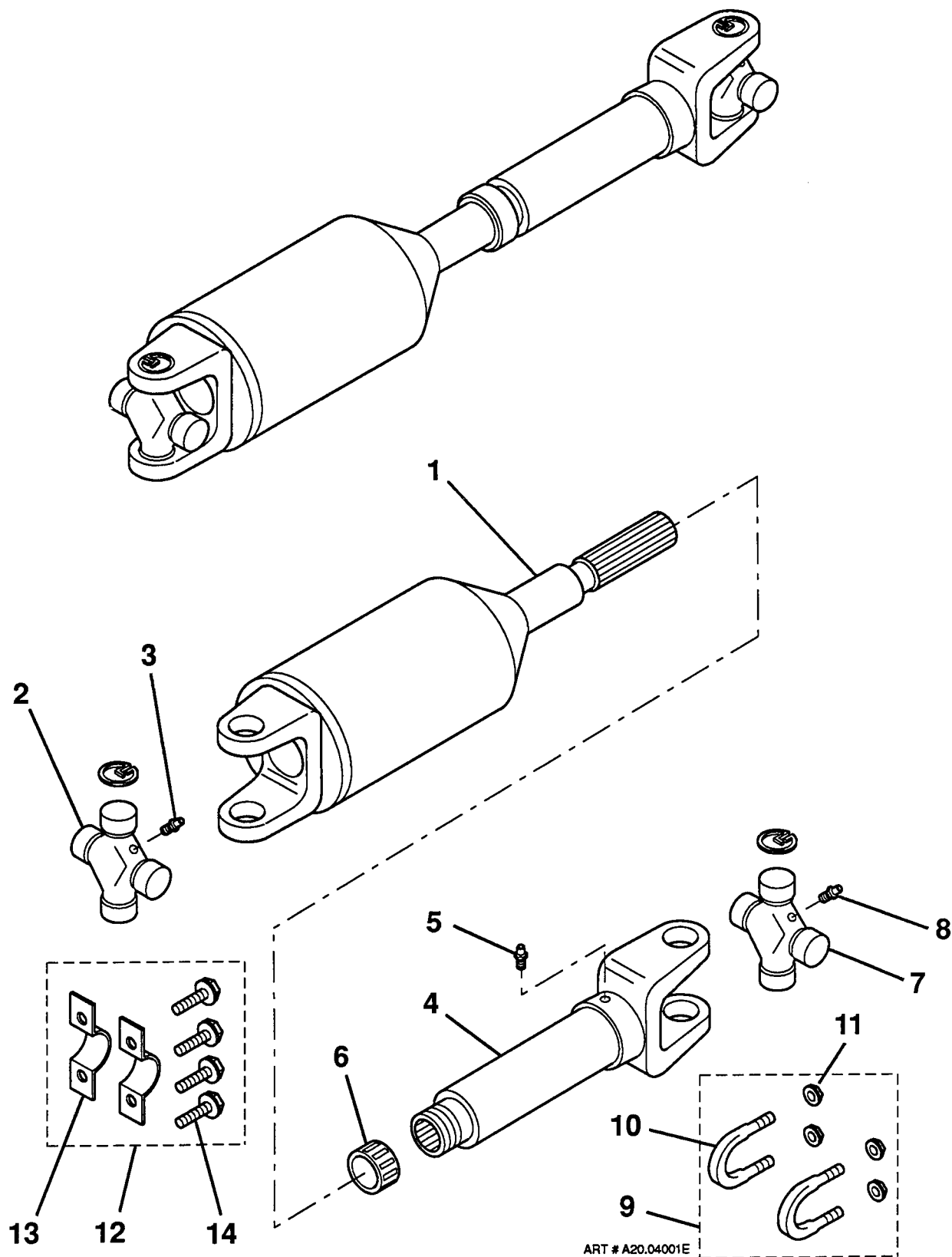
20.05

[illegible]

## REAR DRIVE SHAFT

REV. 12/11/91

PART NO. 02-027800



TITLE

REAR DRIVE SHAFT

**SIMON AERIALS INC.**

REV. 12/11/91

PART  
NO.

02-027800

PLATE  
NO.

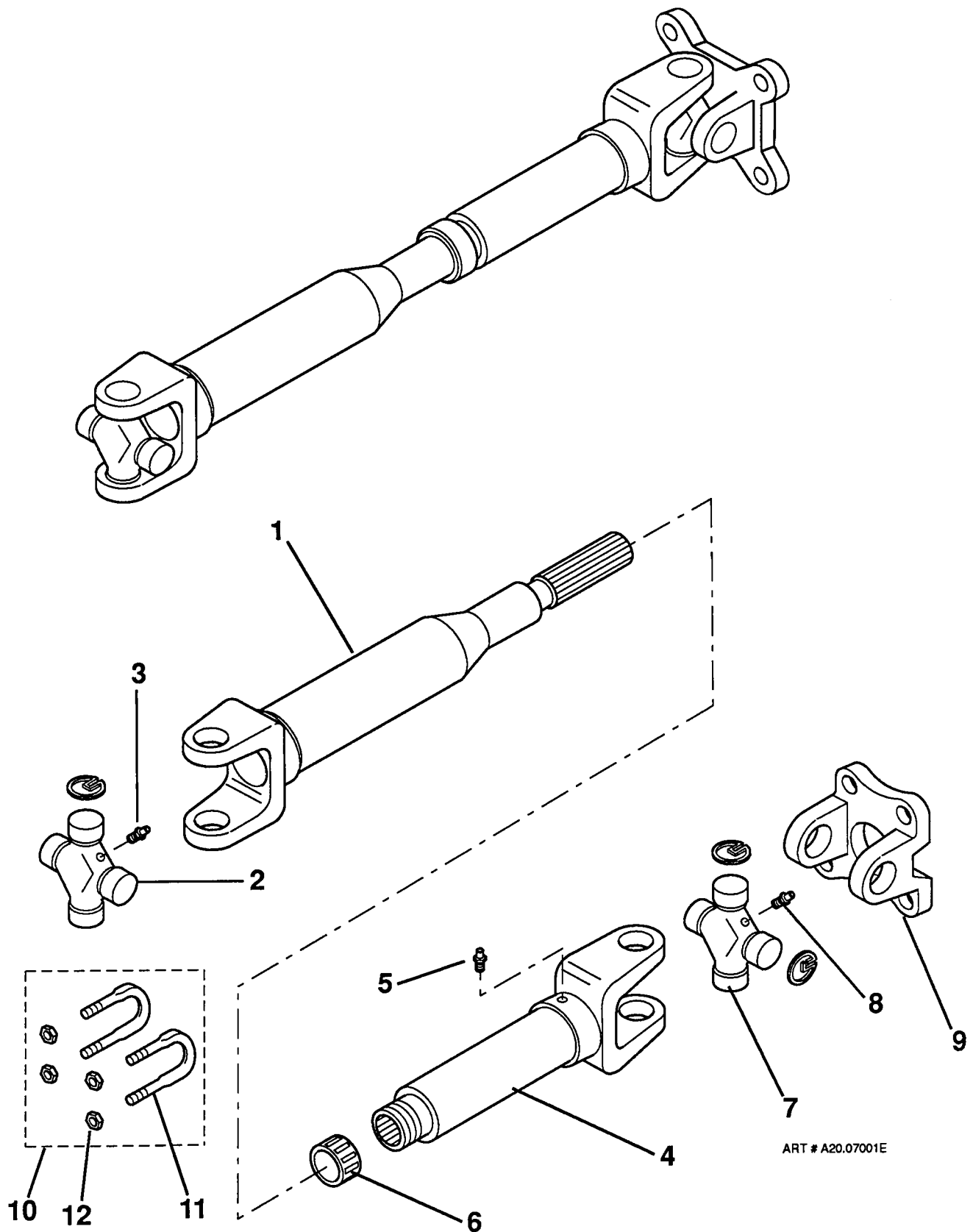
20.06



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## FRONT DRIVE SHAFT

PART NO. 02-030200



TITLE

FRONT DRIVE SHAFT

**SIMON AERIALS INC.**

REV. 12/11/91

PART  
NO.

02-030200

PLATE  
NO.

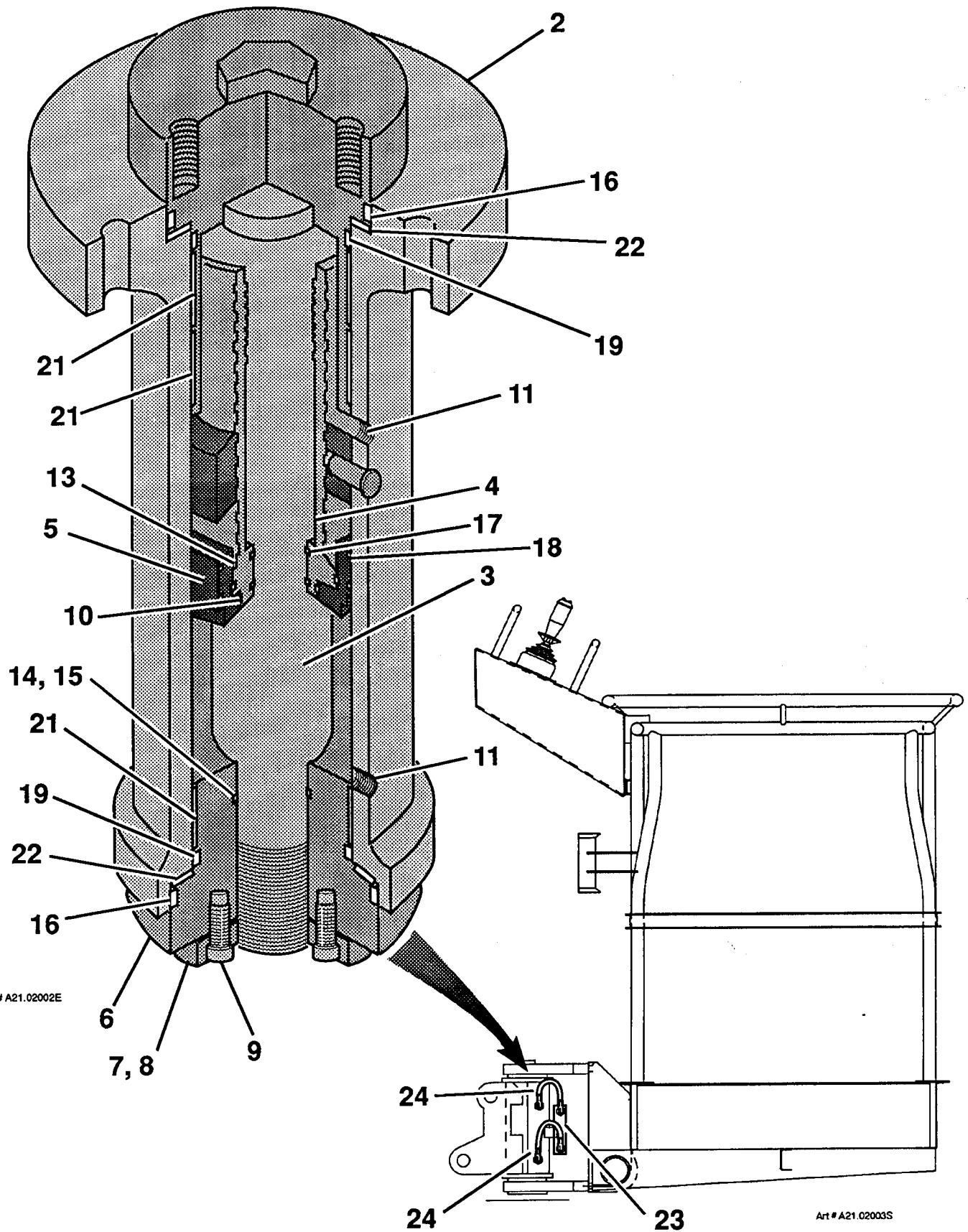
20.07

## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-023700		ACTUATOR, ROTARY	1
2			HOUSING	1
3	02-023703		SHAFT	1
4			SLEEVE	1
5			PISTON	1
6			CAP, END	1
7	02-023704		NUT	1
8	02-023705		NUT, LOCK	1
9	02-023706		CAP SCREW	4
10			SET SCREW	2
11			PLUG, PORT	2
12	02-023701		SEAL KIT	1
13			SEAL, PISTON	1
14			SEAL, CAP	1
15			RING, BACKUP	1
16			SEAL, EXCLUSION	2
17			PACKING, ROD	2
18			PACKING, PISTON	2
19			PACKING, BEARING	2
20	02-023702		BEARING KIT	1
21			BEARING	3
22			WASHER, THRUST	2
			The following items are not part of Rotary Actuator 02-023700:	
23	01-202000		CHECK VALVE, PILOT OPERATED	1
24	2144710		TUBE ASSEMBLY, HYDRAULIC ROTATOR	2

TITLE ROTARY ACTUATOR

PLATE NO.	21.02	<b>SIMON AERIALS INC.</b>	REV. 17 AUG., 1993	PART NO. 02-023700
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TITLE

ROTARY ACTUATOR

**SIMON AERIALS INC.**

REV. 17 AUG., 1993

PART  
NO.

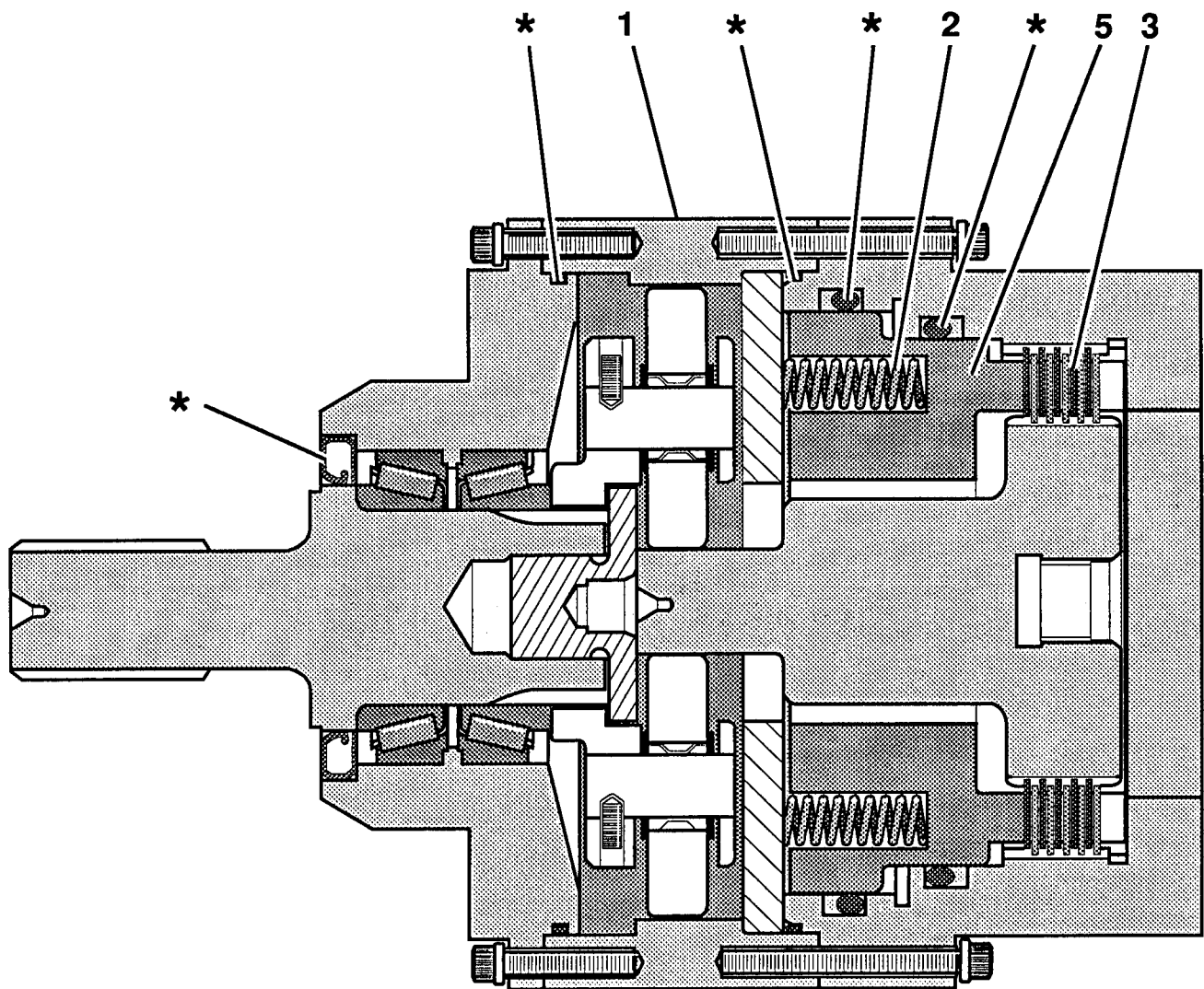
02-023700

PLATE  
NO.

21.02

[illegible]

PLATE NO. 22.05	SIMON AERIALS INC. REV. 17 AUG., 1993	PART NO. 02-029000
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TITLE

SPEED REDUCER WITH BRAKE

**SIMON AERIALS INC.**

REV. 17 AUG., 1993

PART  
NO.

02-029000

PLATE  
NO.

22.05

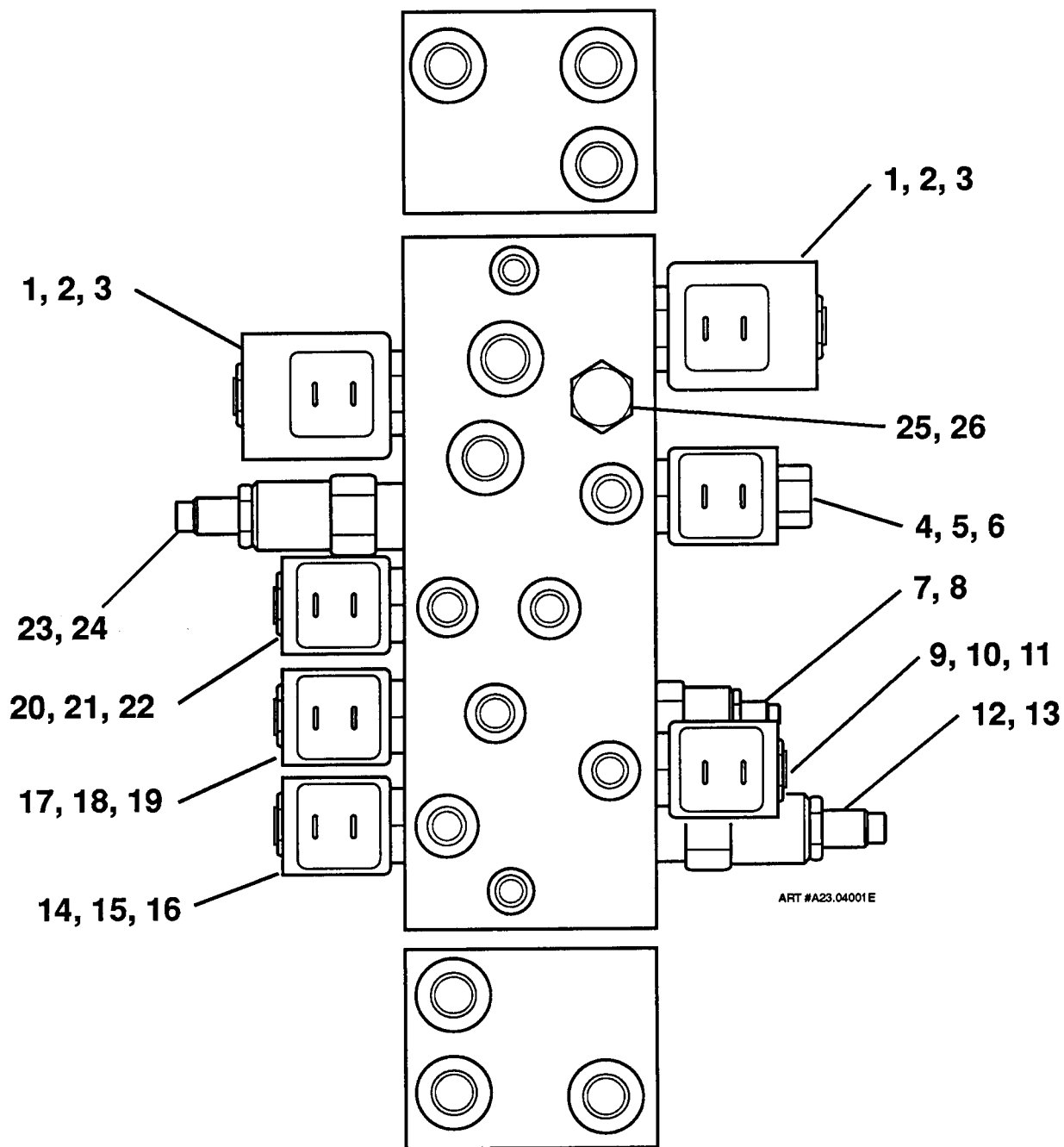


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## HYDRAULIC MANIFOLD ASSEMBLY

01-086800





TITLE

HYDRAULIC MANIFOLD ASSEMBLY

**SIMON AERIALS INC.**

REV. 12 DEC., 1991

PART  
NO.

01-086800

PLATE  
NO.

23.04

[illegible]

HYDRAULIC MANIFOLD ASSEMBLY, AT60C

**PART  
NO.**

This Valve not used  
in this application.

This Valve not used  
in this application.

ART #A23.47001E

TITLE

HYDRAULIC MANIFOLD ASSEMBLY, AT60C

**SIMON AERIALS INC.**

PART  
NO.

PLATE  
NO.

23.47

# PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1	01-086601		SEAL KIT <b>Note:</b> Items in kit identified by asterisk (*).	1
2			HOUSING	1
3			PISTON ASSEMBLY	1
4			PISTON	1
5			RING, PISTON	2
6	*		O-RING	2
7			PLUG, EXPANSION	1
8			SPRING, SERVO	1
9	01-088201		STOP, MINIMUM DISPLACEMENT	1
10	*		GASKET	1
11	01-088203		COVER, SERVO (Top)	1
12	01-088203		COVER, SERVO (Bottom)	1
13			STOP, SERVO	1
14			NUT, SPECIAL	1
15			PLUG (Plastic)	1
16			PLUG (Plastic)	1
17			SCREW, HEX HEAD (Grade 8)	8
18			WASHER	8
19	*		SEAL, SHAFT	1
20			PLUG, STRAIGHT THREAD	2
21	*		GASKET	1
22			BEARING, NEEDLE	1
23			PLATE, MOTOR VALVE	1
24			BLOCK ASSEMBLY, CYLINDER	1
25			BLOCK, CYLINDER	1
26			WASHER	1
27			SPRING	1
28			WASHER	1
29			RING, RETAINING	1
30			PIN, SLIPPER HOLD DOWN	3
31			RETAINER	1
32			GUIDE, RETAINER	1
33			GUIDE, SLIPPER	1
34			PISTON ASSEMBLY	7
35			SHAFT, MOTOR	1
36			SWASHPLATE	1
37	01-088202		JOURNAL, BEARING	2
38			PIN, STRAIGHT (Headless)	1
39			BEARING, SLEEVE	1

TITLE

HYDRAULIC MOTOR (PLATE 1 OF 2)

PLATE NO.

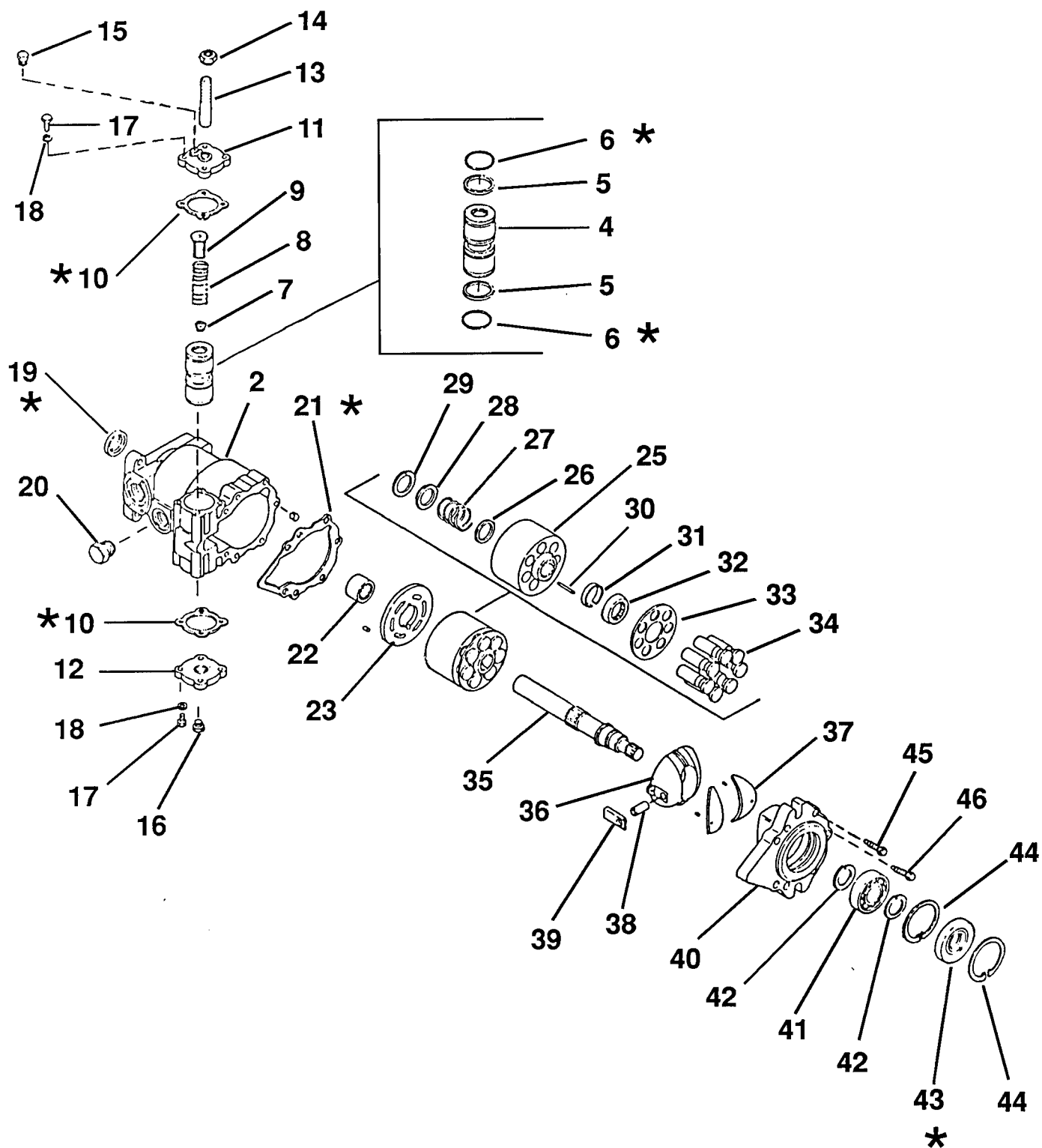
26.04

**SIMON AERIALS INC.**

REV. 19 AUG., 1993

PART NO.

01-088200



TITLE

HYDRAULIC MOTOR (PLATE 1 OF 2)

**SIMON AERIALS INC.**

REV. 19 AUG., 1993

PART  
NO.

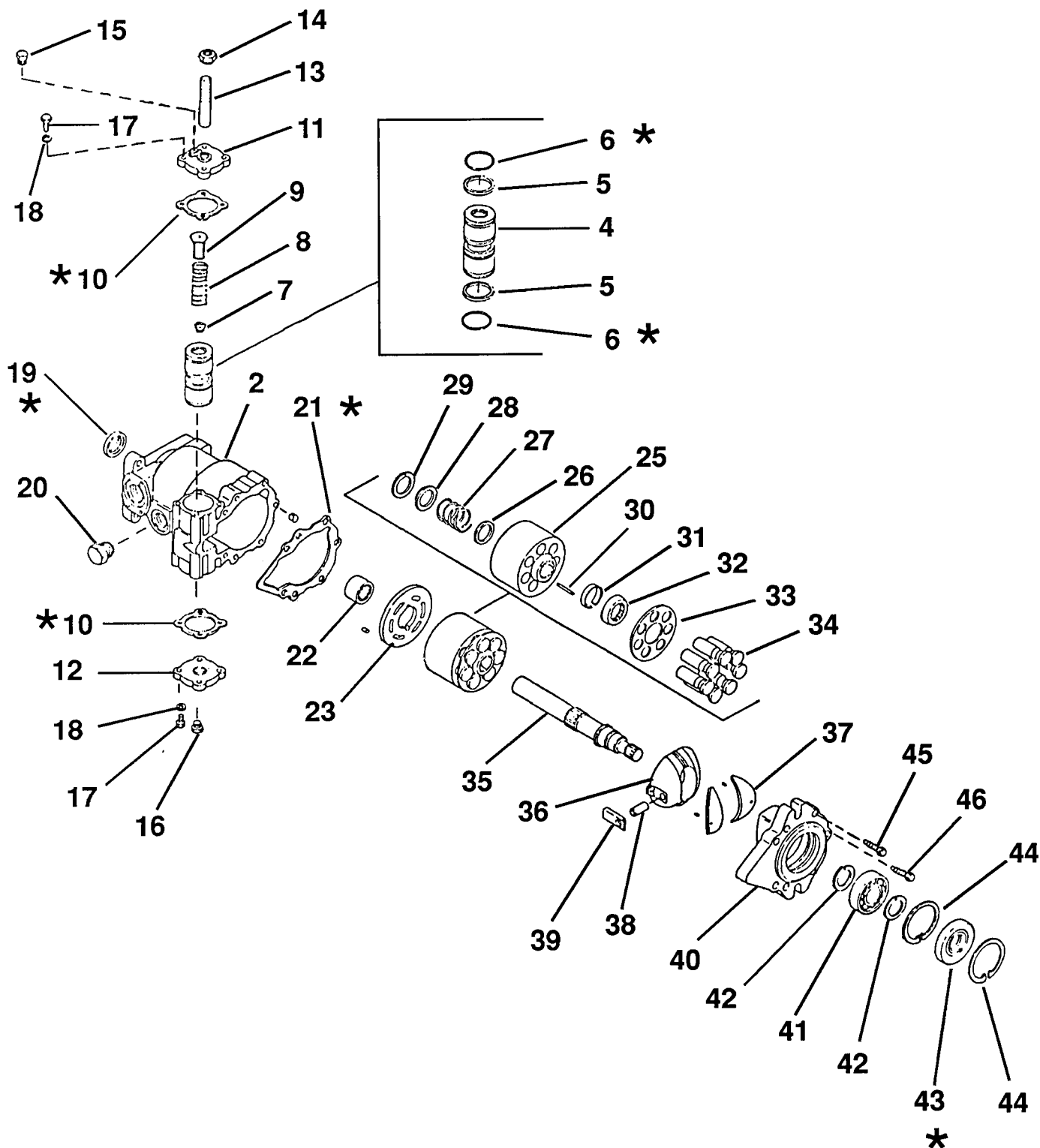
01-088200

PLATE  
NO.

26.04

## PARTS LIST

[illegible]



TITLE

HYDRAULIC MOTOR (PLATE 2 OF 2)

**SIMON AERIALS INC.**

REV. 19 AUG., 1993

PART  
NO.

01-088200

PLATE  
NO.

26.04



## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			HOUSING, SWING REDUCER	1
2	02-022104		SHAFT, WORM	1
3	02-000423		CONE AND ROLLER, INPUT BEARING [1-5/8" (41mm) bore]	1
4	02-000402		CUP, INPUT BEARING [3-1/4" (83 mm) O.D.]	1
5	02-022106		RETAINER, INPUT BEARING	1
6			CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4")	2
7			WASHER, FLAT (1/2")	2
8	02-000421		CONE AND ROLLER, BEARING [1" (25 mm) bore]	1
9	02-000434		CUP, BEARING [2-9/16" (65 mm) O.D.]	1
10	02-022103		RETAINER, BEARING	1
11			CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4")	4
12			WASHER, HELICAL LOCK (3/8")	10
13	02-023501		SHAFT, OUTPUT	1
14	02-022102		GEAR, WORM	1
15			KEY	1
16	02-022107		SPACER	1
17	02-022105		SPACER	1
18	02-022116		BEARING, BALL	1
19	02-022109		NUT, CASTLE	1
20	02-022118		PIN, COTTER (1/8" x 1-1/2")	1
21	02-023503		COVER, SWING REDUCER	1
22	02-022114		CONE AND ROLLER, BEARING	2
23	02-022115		CUP, BEARING	2
24			CAP SCREW, HEX HEAD (3/8"-16 x 1")	6
25	02-022101		SEAL KIT, SWING REDUCER	1
26			GASKET, BEARING RETAINER [1/64" (0.4 mm)] (1 in kit)	A.R.
			GASKET, BEARING RETAINER [1/32" (0.8 mm)] (3 in kit)	A.R.
27	02-023502		GASKET, MOTOR MOUNTING [1/32" (0.8 mm)]	2
28	02-000431		SEAL, WORM SHAFT [1" (25 mm) I.D.]	1
29			"O"-RING, BEARING RETAINER	1
30			SEAL, OUTPUT SHAFT	1
31			"O"-RING, COVER	1
32			"O"-RING, BEARING RETAINER	1
33	02-022120		BUSHING, REDUCER (3/8" to 1/8")	1
34			FITTING, GREASE (1/4"-28, 90°)	1
35			PLUG, HEX SOCKET (3/8"-18)	1
36	02-022117		PLUG, VENT	1

TITLE

SWING REDUCER ASSEMBLY

PLATE NO.

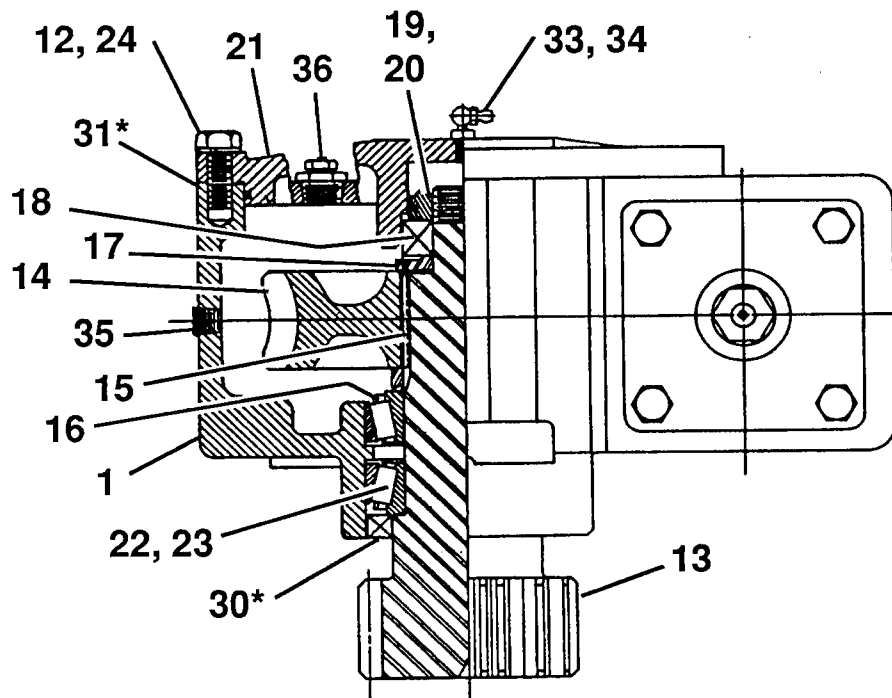
28.02

**SIMON AERIALS INC.**

REV. 23 AUG., 1993

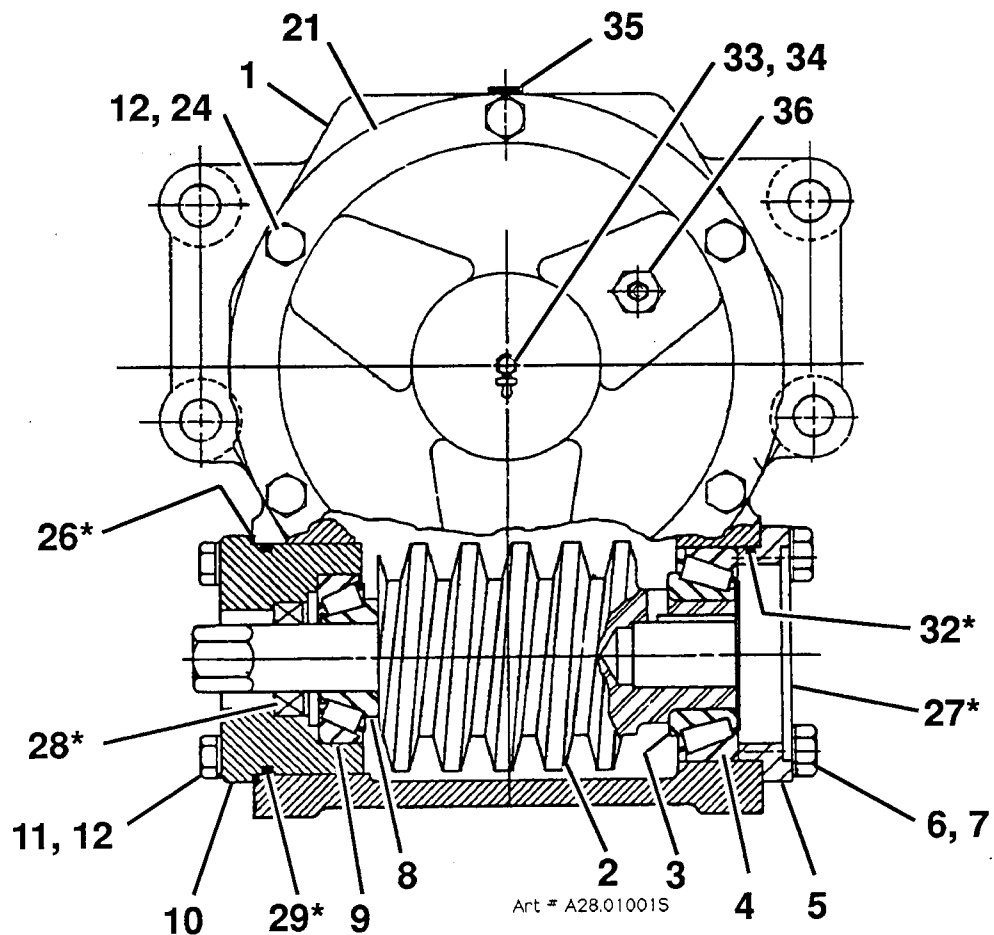
PART NO.

02-023500



Art # A28.01002S

Cutaway view in direction of Arrow "A"



Art # A28.01001S

TITLE

SWING REDUCER ASSEMBLY

**SIMON AERIALS INC.**

REV. 23 AUG., 1993

PART  
NO.

02-023500

PLATE  
NO.

28.02

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## DRIVE CONTROL HANDLE ASSEMBLY

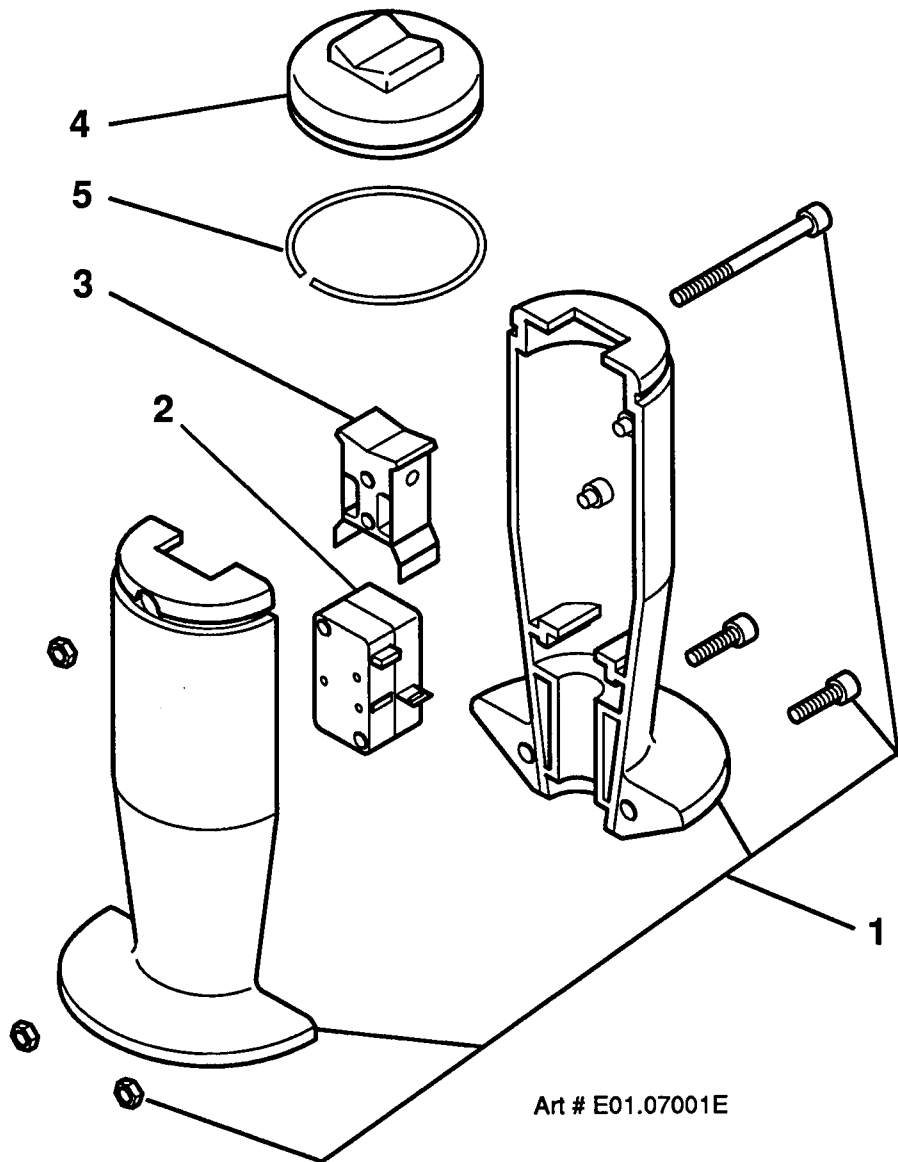
29.04

## SIMON AERIALS INC.

NEW 09/11/91

**PART  
NO.**

03-402200



TITLE

DRIVE CONTROL HANDLE ASSEMBLY

**SIMON AERIALS INC.**

NEW 09/11/91

PART  
NO.

03-402200

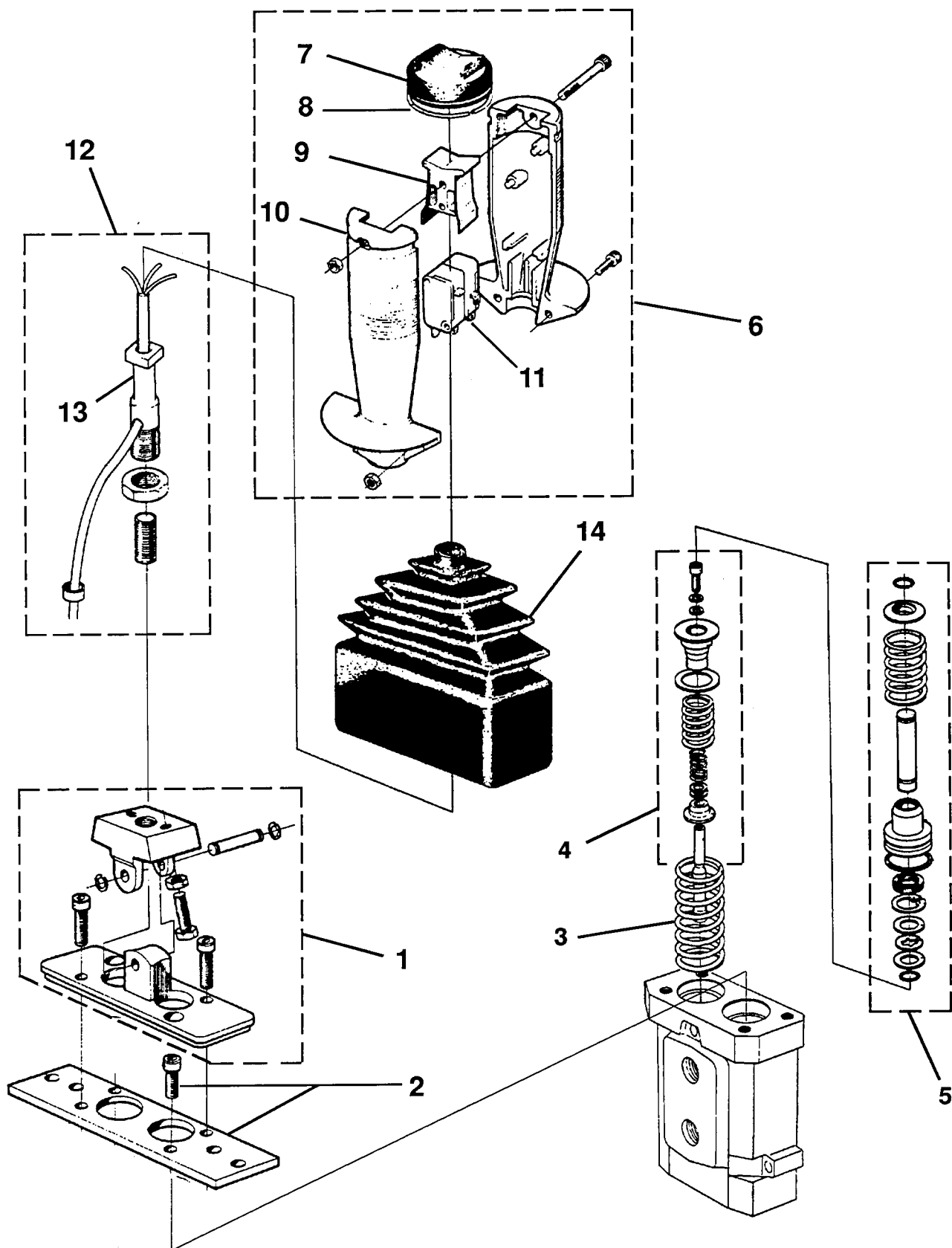
PLATE  
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29.04

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## VALVE, DRIVE CONTROLLER

01-083400



TITLE

VALVE, DRIVE CONTROLLER

**SIMON AERIALS INC.**

REV. 23 AUG., 1993

PART  
NO.

01-083400

PLATE  
NO.

29.05



## PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	DKAT60C		DECAL KIT, CONSTRUCTOR AT 60C (for earlier versions, includes items 2 thru 17)	1
2	10-007200		DECAL, "DISENGAGE LOCK PIN . . ."	3
3	10-007600		DECAL, "120 V. A.C., 20 AMP"	1
4	10-013400		DECAL, "500 LBS (226.4 Kg) . . . CAPACITY"	2
5	10-024500		DECAL, "20 AMP CIRCUIT" (Breaker)	1
6	10-018900		DECAL, "BEWARE" (Potential Hazard)	1
7	10-019000		DECAL, "DANGER" (Electrocution Hazard, small)	1
8	10-084900		DECAL, "DANGER" (Electrocution Hazard, large)	2
9	10-012200		DECAL, "CAUTION: For Hydraulic Fluid . . . DTE 15"	1
10	10-015200		DECAL, "HYDRAULIC FLUID LEVEL CHECK . . ."	1
11	10-092500		DECAL, OPERATING INSTRUCTIONS	1
12	10-007400		DECAL, "GENERAL MAINTENANCE"	1
13	10-066000		PLATE, "PLATFORM LOAD 500 LBS. (200 KG)"	1
14	10-083000		DECAL, "SIMON" NAME [4" (102 mm) high, Black]	2
15	10-017200		DECAL, "SIMON" NAME [5" (127 mm) high, Black]	1
16	10-017100		DECAL, "SIMON" NAME [7" (178 mm) high, Black]	2
17	10-109700		DECAL, MODEL NAME "CONSTRUCTOR" (Black)	
			[Angled type, 2-3/4" (70 mm) high, for earlier versions]	2
18	10-102000		DECAL, MODEL "AT 60C" (Black)	
			[Angled type, 2-3/4" (70 mm) high, for earlier versions]	2
19	10-106500		DECAL, "CAUTION: Unlock hubs . . . hard surface"	1
20	10-099700		DECAL, GROUND ELECTRICAL BOX	1
21	10-099600		DECAL, GROUND CONTROL VALVES	1
22	10-107100		DECAL, PLATFORM ELECTRICAL CONTROLS	1
23	10-098700		DECAL, PLATFORM CONTROL VALVES	1
24	10-105900		DECAL, "SIMON" NAME [5" (127 mm) high, White]	2
25	10-132600		DECAL, MODEL "CONSTRUCTOR" (Black)	
			[Straight type, 5" (127 mm) high, for later versions]	2
26	10-132900		DECAL, MODEL "AT 60C" (Black)	
			[Straight type, 5" (127 mm) high, for later versions]	2
27	10-017400		DECAL, STRIPING (Bulk item, order as needed)	
			[Black/ Orange/ Black, 3-1/2" (89 mm) wide, for earlier versions]	A.R.
	10-094000		[(4) Orange Stripes, 3-3/4" (95 mm) wide, for later versions]	A.R.
28	10-025100		DECAL, STRIPING CORNER (for earlier versions)	
			[Black/ Orange/ Black, for 3-1/2" (89 mm) wide stripe]	2
29	10-131900		DECAL, SIMON "S" LOGO [Orange/ Gray, 9" (229 mm) wide x 13-1/2" (344 mm) high]	2
30	10-121600		DECAL, "MADE IN U.S.A."	2
31	10-153300		DECAL, "WARNING" ("Steering on hard surface . . .")	1

TITLE

DECALS, AT60C

PLATE  
NO.

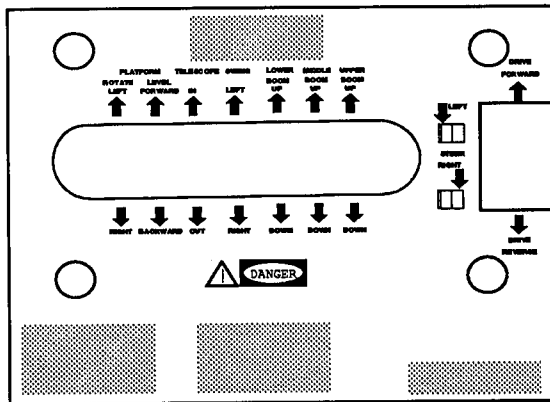
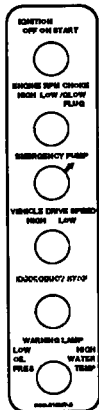
99.05

**SIMON AERIALS INC.**

REV. 24 AUG., 1993

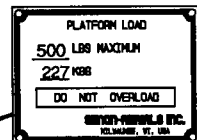
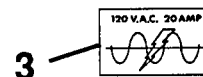
PART  
NO.





2 — DISENGAGE LOCKPIN BEFORE USING THE TURNTABLE

4 — 500LBS. (226.4 KG) DO NOT OVERLOAD MAXIMUM PAYLOAD CAPACITY



13

**IMPORTANT OPERATING INSTRUCTIONS**

**STARTER INTERLOCK:** — THE OPERATION IS ALLOWED AS LONG AS THE STARTER SWITCH IS IN THE "ON" POSITION. IF THE SWITCH IS NOT IN THE "ON" POSITION, THE STARTER MUST BE TURNED OFF TO START ANOTHER OPERATING CYCLE.

**SHIFTS:** — A GEAR CHANGE SHOULD ONLY BE MADE WHILE THE TURN CONTROLLER IS IN NEUTRAL. THEN THE TURN CONTROLLER SHOULD BE MOVED SMOOTHLY TO FORWARD OR REVERSE TO ALLOW THE TURNING GEAR TO SHIFT. SHIFTS SHOULD NEVER BE MADE IN HIGH TORQUE OR HIGH SPEED OPERATING.

**HIGH GEAR:** — SHOULD ONLY BE USED ON FIRM LEVEL SURFACES.

**PLATFORM LEVEL/ROTATE:** — THE TURN RIGHT LEFT FUNCTION LEVEL CONTROLS BOTH PLATFORM LEVEL AND PLATFORM ROTATE. THE SELECTION BETWEEN LEVEL AND ROTATE IS MADE WITH A SWITCH ON THE PLATFORM ELECTRICAL BOX.

**THE OPERATORS MANUAL MUST BE READ AND UNDERSTOOD PRIOR TO OPERATING THIS MACHINE**

22

14, 15, 16, 24

11

**SIMON**

**CONSTRUCTOR**

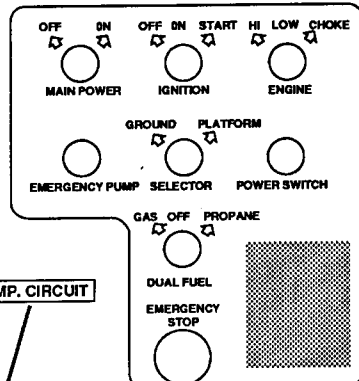
17, 25

**AT 60C**

18, 26

DISENGAGE LOCKPIN BEFORE USING THE TURNTABLE

500LBS. (226.4 KG) DO NOT OVERLOAD MAXIMUM PAYLOAD CAPACITY



20 AMP. CIRCUIT

5

20

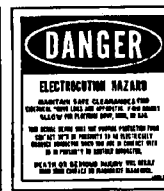
**HYDRAULIC FLUID LEVEL CHECK**  
WITH MACHINE ON A FLAT LEVEL SURFACE, FLUID LEVEL SHOULD BE ABOVE HIGH LINE MARKED ON THE RIGHT CLAMP.

**CAUTION:**  
FOR HYDRAULIC FLUID USE ONLY CLEAN FRESH MOBIL D.T.E. 15 HYDRAULIC OIL. FILTER ALL OIL BEFORE ADDING.

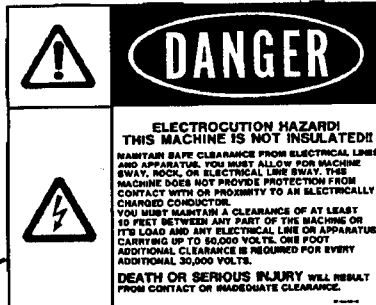
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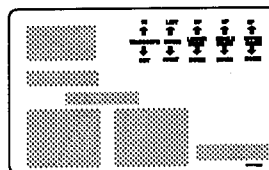


8

**GENERAL MAINTENANCE**

1. GREASE ALL PRESSURE GUN FITTINGS ONCE EVERY 40 HOURS OF OPERATION WITH MULTI-PURPOSE LITHIUM BASE GREASE WITH EP AND MOLYDISULFIDE ADDITIVES (NLGI #2 WITH 3% MoS2); SUCH AS TEXACO #1849. WIPE ALL FITTINGS BEFORE APPLYING GREASE GUN.
2. CHANGE BOTH TANK AND EXTERNAL HYDRAULIC FILTERS AFTER FIRST 25 HOURS OF OPERATION AND EVERY 200 HOURS THEREAFTER. CHANGE MORE OFTEN WHEN USED IN DUSTY-GRITTY AIR.
3. CHANGE ALL HYDRAULIC FLUID ONCE A YEAR.

12



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**WARNING**  
STEERING ON HARD SURFACE (ASPHALT OR CONCRETE) WITH HUBS "ENGAGED" MAY DAMAGE DRIVELINE COMPONENTS. TURN HUBS TO "ENGAGED" POSITION WHEN OPERATING IN SEVERE OFF ROAD CONDITIONS. TO RETURN TO NORMAL OPERATION, TURN HUBS TO "DISENGAGED" POSITION.

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29



30

TITLE

DECALS, AT60C

**SIMON AERIALS INC.**

REV. 24 AUG., 1993

PART NO.

PLATE NO.

99.05