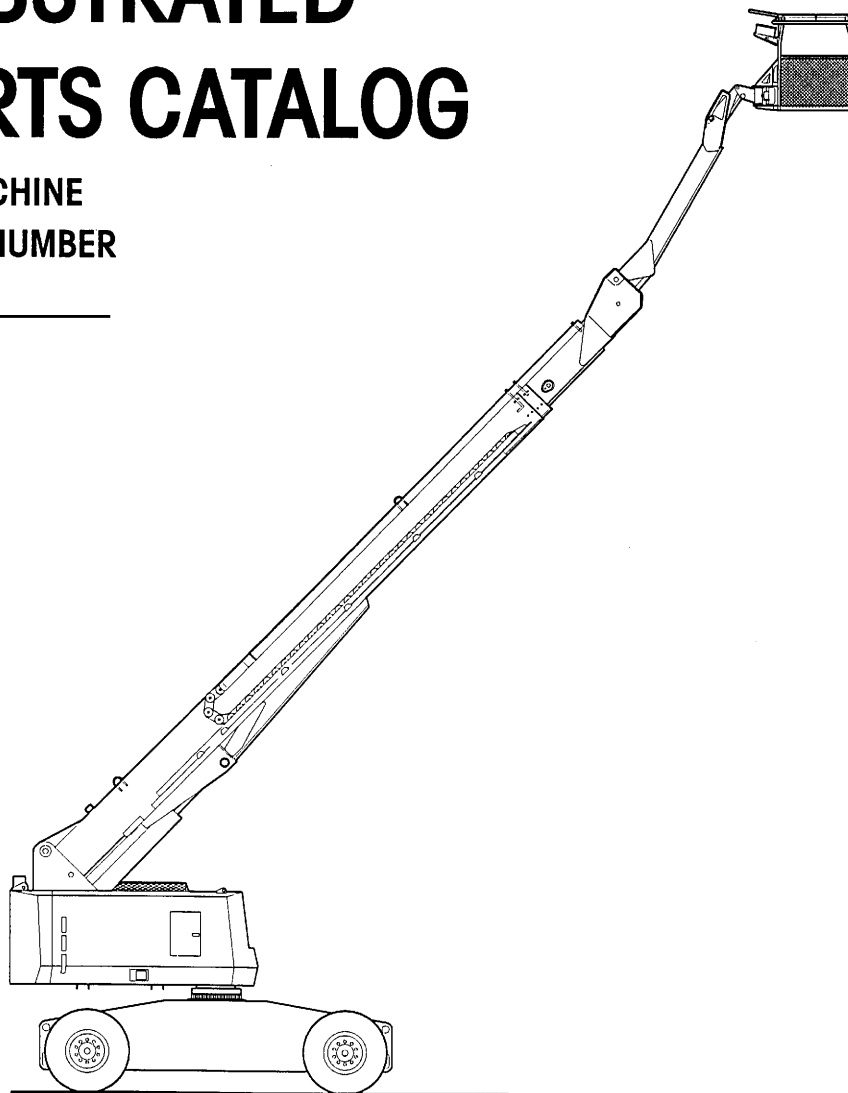


RP 86 "Reach Plus"

Featuring "Electro-Proportional"
Control System

ILLUSTRATED PARTS CATALOG

FOR MACHINE
SERIAL NUMBER



Art # A00.00179E

Part No. 89-186005 • Revision 0.1 dated June, 1996 •

TABLE OF CONTENTS

INTRODUCTION

PRIMARY MACHINE COMPONENT GROUPS

SECTION B 01: UNDERCARRIAGE

- B 01.203: UNDERCARRIAGE ASSEMBLY
- B 01.249: UNDERCARRIAGE AXLE JACK ASSEMBLY

SECTION B 02: SUPERSTRUCTURE

- B 02.203: SUPERSTRUCTURE ASSEMBLY

SECTION B 03: BOOM

- B 03.204: BOOM ASSEMBLY

SECTION B 04: PLATFORM

- B 04.203: PLATFORM ASSEMBLY
- B 04.297: PLATFORM SENSOR RING (OPTION)
- B 04.298: PLATFORM CONSOLE COVER (OPTION)

TABLE OF CONTENTS (CONTINUED)

SECTION C: SUBASSEMBLIES

C 01.201:	FRONT STEER SPINDLE ASSEMBLY (2WD)
C 01.202:	FRONT STEER SPINDLE ASSEMBLY (4WD)
C 02.205:	HYDRAULIC VALVE MANIFOLD (FIRST TYPE)
C 02.206:	HYDRAULIC VALVE MANIFOLD (SECOND TYPE)
C 03.204:	GROUND CONTROL BOX ASSEMBLY
C 04.201:	ENGINE ASSEMBLY (DEUTZ F4L 1011)
C 04.202:	ENGINE ASSEMBLY (ISUZU C-240)
C 04.203:	ENGINE ASSEMBLY (FORD LRG-423)
C 06.202:	REMOTE PENDANT ASSEMBLY
C 08.203:	PLATFORM CONTROL BOX ASSEMBLY
C 10.06:	HYDRAULIC TANK ASSEMBLY
C 11.05:	FUEL TANK ASSEMBLY
C 12.201:	DRIVE VALVE ASSEMBLY (2WD)
C 12.202:	DRIVE VALVE ASSEMBLY (4WD)
C 12.203:	AXLE LIFT/ EXTEND VALVE
C 12.204:	AXLE ENABLE VALVE
C 12.205:	AXLE CHECK VALVE (STEER AXLE)
C 12.206:	AXLE CHECK VALVE (NON-STEER AXLE)
C 12.207:	PLATFORM LEVEL/ ROTATE VALVE
C 13.201:	FRONT (STEER) AXLE ASSEMBLY (2WD)
C 13.202:	FRONT (STEER) AXLE ASSEMBLY (4WD)
C 13.203:	REAR (DRIVE)AXLE ASSEMBLY
C 13.249:	STEER AXLE TIE ROD ASSEMBLY

TABLE OF CONTENTS (CONTINUED)

SECTION D: HYDRAULIC COMPONENTS

D 01.11:	STEER CYLINDER
D 02.01:	HYDRAULIC SWIVEL
D 06.12:	SWING MOTOR
D 07.101:	EMERGENCY HYDRAULIC PUMP ASSEMBLY
D 08.15:	MAIN HYDRAULIC PUMP ASSEMBLY
D 10.101:	MASTER LEVEL CYLINDER
D 19.202:	TELESCOPE CYLINDER
D 20.201:	SLAVE LEVEL CYLINDER
D 24.201:	ROTARY ACTUATOR
D 25.201:	JIB BOOM ARTICULATION CYLINDER

SECTION F: MECHANICAL COMPONENTS

F 02.04:	SWING REDUCER ASSEMBLY
F 05.03:	TOW PACKAGE
F 06.05:	HOSTILE ENVIRONMENT PACKAGE
F 99.204:	DECALS
F 99.205:	DECALS (GERMAN LANGUAGE)

INTRODUCTION

This Illustrated Parts Catalog is designed to help you identify and order the correct replacement parts for use on SIMON RP 86 "REACH PLUS" SELF-PROPELLED AERIAL WORK PLATFORMS. All parts represented here are manufactured and supplied in accordance with Simon Aerials quality standards. We recommend that you use GENUINE SIMON AERIALS PARTS to insure proper OPERATION and reliable PERFORMANCE.

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

HOW TO USE THIS CATALOG

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

The "Table of Contents" pages list the specific sections, pages and page titles that are relevant to this model, and contained in this Catalog. Only those pages that refer specifically to RP 86 machines are included in this Catalog.

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

The Parts Catalog is divided into "Sections", numbered from B01 through F99. Each section contains the individual parts that make up a major component, assembly or item. The first four sections (B01 through B04) contain the major assemblies, or "Primary Machine Component Groups". Sections that follow contain sub-assemblies or components of these "major" assemblies.

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

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

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

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

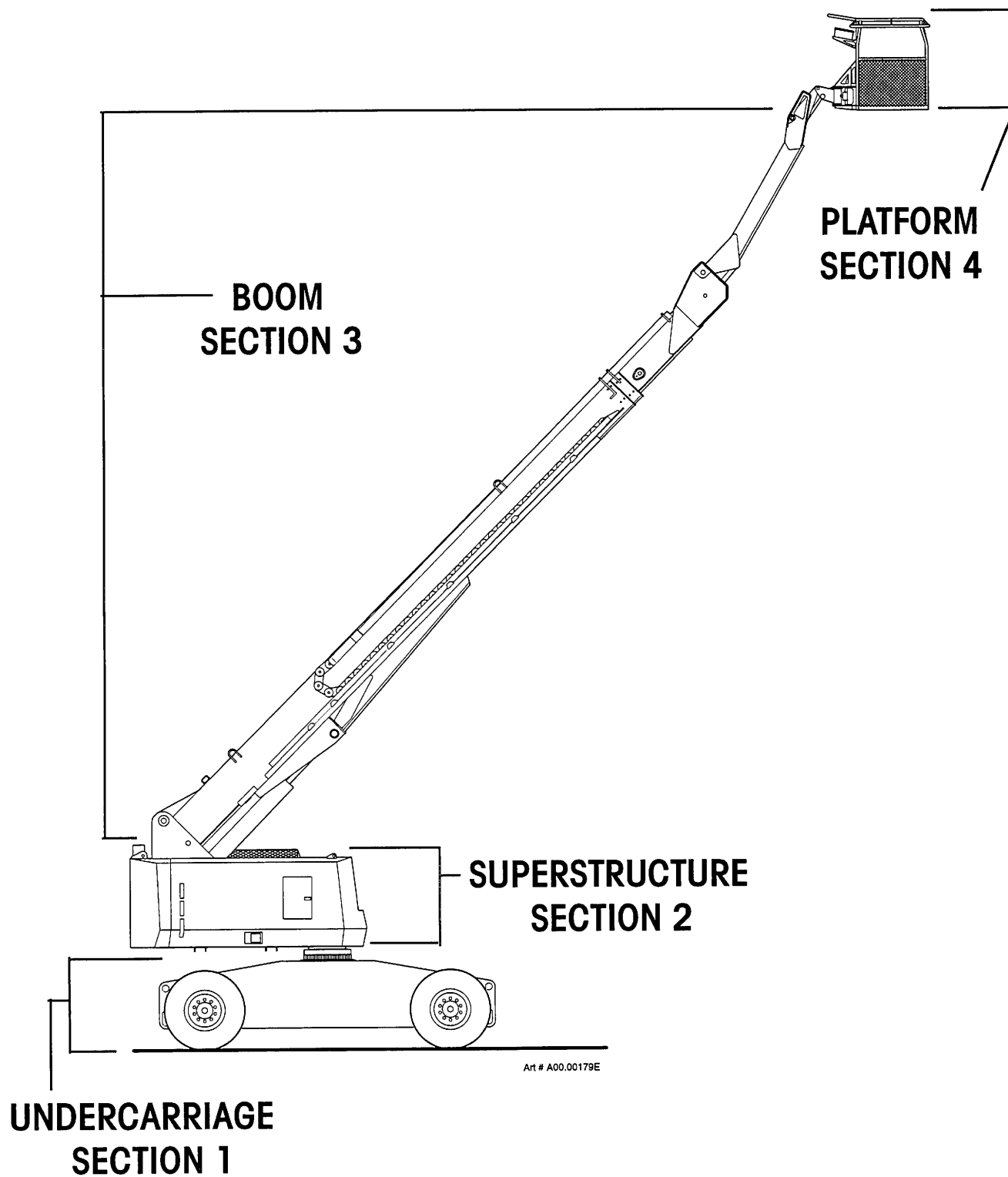
4. Parts Plate number, Item Number and Description of the desired item, OR
5. Part Number of the next assembly (Parent Part), if the desired item is not listed.

Some assembled items, such as hydraulic cylinders, may have been supplied by more than one source. While the assemblies may be able to be used interchangeably, FOR SAFETY'S SAKE, do not mix components or repair kits. Please confirm the make of the assembly on the unit before ordering or installing replacement parts.

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

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

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



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TITLE

PRIMARY MACHINE COMPONENT GROUPS, RP 86

PART
NO.

REV.

ADATED
JUNE, 1996

SECTION

PLATE NO.

PAGE

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	354 2971 354 2980 354 2990		UNDERCARRIAGE GROUP With Two Wheel Drive and Two Wheel Steering (Standard) With Four Wheel Drive and Two Wheel Steering (Optional) With Four Wheel Drive and Four Wheel Steering (Optional)	1
1	234 9020		UNDERCARRIAGE WELDMENT	1
2	08-080600		SWING BEARING	1
3	07-097100		CAP SCREW, HEX HEAD (3/4"-16 x 3-3/4", Grade 8)	18
4	07-061022		WASHER, FLAT (3/4" SAE)	18
5	235 1600	D02.01	SWIVEL, HYDRAULIC	1
6	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
7	07-065018		WASHER, HELICAL LOCK (1/2")	4
8	06-045800		Ports 1 and 2, Hydraulic Swivel bottom section: 90° ELBOW, "O"-RING TO 37° (16 C50X-S)	2
9	06-090600		Port 3, bottom section: REDUCER/ EXPANDER (8-6 F50 G5-S)	1
10	04-055600		MANIFOLD, HEADER (Includes mounting hardware. Replaces multiple tees, items 10 and 11 below, used earlier.)	
11	06-050000 06-054500		BRANCH TEE, MALE "O"-RING TO 37° (6 S50X-S) (obsolete) RUN TEE, SWIVEL NUT (6 R6X-S) (Obsolete, use manifold, #10)	1 A.R.
12	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S)	2
13	06-044700		Ports 4 and 5, bottom section: 90° ELBOW, "O"-RING TO 37° (6-8 C50X-S)	2
14	06-095100		Port 6, bottom section: PLUG, HEX SOCKET "O"-RING (8 HP50N-S)	1
15	06-041100		Ports 1 and 2, Hydraulic Swivel top section: ADAPTER, "O"-RING TO 37° (12-16 F50X-S)	2
16	06-040100		Port 3, top section: ADAPTER, "O"-RING TO 37° (8 F50X-S)	1
17	06-039900		Ports 4 and 5, top section: ADAPTER, "O"-RING TO 37° (6-8 F50X-S)	2
18	06-095100		Port 6, top section: PLUG, HEX SOCKET "O"-RING (8 HP50N-S)	1
19	03-735300		SWIVEL, ELECTRICAL (8 circuit, 15 Amp, 12 Volt DC)	1
20	03-045000		REDUCER, ELECTRICAL CONDUIT (3/4" to 1/2")	1
21	03-041000		GRIP, CORD (Plastic, 1/2", with .38" to .44" seal)	1
22	11-303300		NIPPLE, PIPE (3/4" NPT x 3" long)	1

TITLE

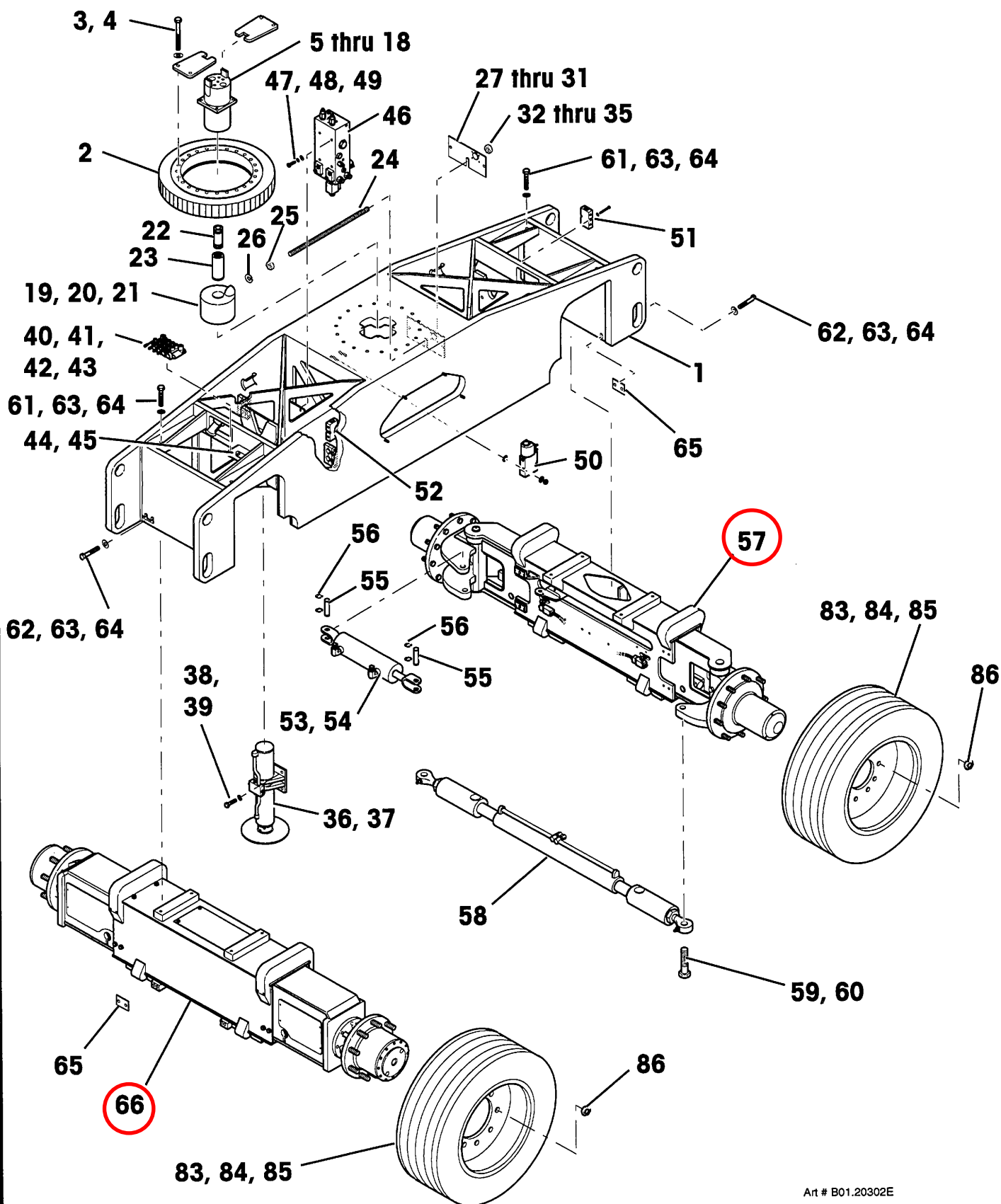
UNDERCARRIAGE ASSEMBLY, RP 86 AND T-80

SECTION **B01.** | PLATE NO. **203** | PAGE **01**

REV. **A** | DATED 29 MAY, 1996 | PART NO.



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TITLE

UNDERCARRIAGE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV.

A

DATED

29 MAY, 1996

SECTION

B01.

PLATE NO.

203

PAGE

01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
23	206 7559		ADAPTER, ELECTRICAL SWIVEL TO HYDRAULIC SWIVEL	1
24	11-007006		ROD, THREADED (1/2"-13, Grade 2. 3 ft [.914 m] piece. 17" [.432 m] needed in this application.)	A.R.
25	07-040018		NUT, HEX (1/2"-13, Grade 5)	1
26	07-065018		WASHER, HELICAL LOCK (1/2")	1
27	235 2860		PLATE, SWIVEL LOCK	1
28	07-050016		NUT, STOP (3/8"-16, Grade 5)	2
29	07-062016		WASHER, FLAT (3/8")	2
30	07-065016		WASHER, HELICAL LOCK (3/8")	2
31	07-060016		WASHER, FLAT (3/8", SAE)	A.R.
32	03-719400		RECEPTACLE, ELECTRICAL (9 pin) (Marked "HD10-9-96")	1
	03-732100		PLUG, ELECTRICAL (9 pin) (Marked "HD16-9-96")	1
33	07-013381		MACHINE SCREW, ROUND HEAD (#4-40 x 1/2", Grade 2)	4
34	07-065003		WASHER, HELICAL LOCK (#4)	4
35	07-040005		NUT, HEX (#4-40, Grade 5)	4
36	354 3580	B01.249	AXLE JACK ASSEMBLY	2
37	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C50X-S)	4
38	07-004147		CAP SCREW, HEX HEAD (3/4"-10 x 1-1/2")	8
39	07-065022		WASHER, HELICAL LOCK (3/4)	8
40	354 4860	C12.203	AXLE LIFT VALVE ASSEMBLY	1
41	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
42	07-062014		WASHER, FLAT (1/4")	2
43	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
44	03-020300		SWITCH, PUSH BUTTON (Axle lever enable)	1
45	03-020302		CAP AND NUT, PUSH BUTTON SWITCH (Red)	1
46			DRIVE VALVE ASSEMBLY	1
	01-238300	C12.201	For Two Wheel Drive versions	
	01-238400	C12.202	For Four Wheel Drive versions	
47	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	4
48	07-062016		WASHER, FLAT (3/8")	4
49	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
50	01-240200	C12.204	VALVE, SOLENOID (Three way) (Axle enable valve)	1
51	01-238600	C12.205	VALVE, CHECK (Dual operated) (Steer axle)	1
52	01-238600	C12.206	VALVE, CHECK (Dual operated) (Non-steer axle)	1
53	04-035300	D01.11	CYLINDER, STEER	1
54	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S)	2
55	217 1250		PIN, STEER CYLINDER (1" dia. x 3-7/16" long) (Note: Some earlier versions used Clevis Pin 04-003401 and Clip 04-003404 at the cylinder base end. Replace with Pin 217 1250 and Retaining Rings 08-040600.)	2
56	08-040600		RING, RETAINING (1")	4

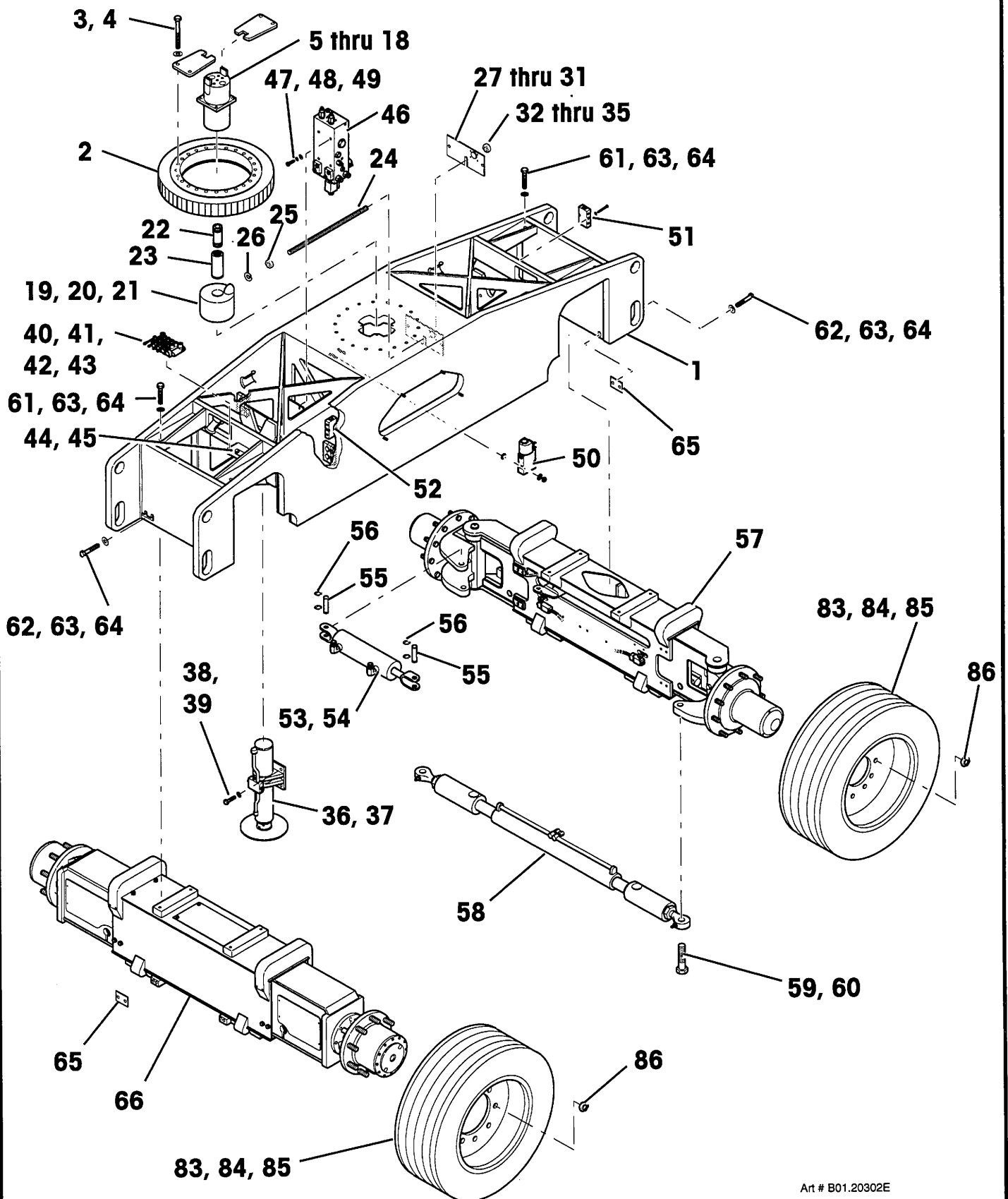
TITLE

UNDERCARRIAGE ASSEMBLY, RP 86 AND T-80

SECTION **B01.** | PLATE NO. **203** | PAGE **02**

REV. **A** | DATED 29 MAY, 1996 | PART NO.


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TITLE

UNDERCARRIAGE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV.

A

DATED

29 MAY, 1996

SECTION

B01.

PLATE NO.

203

PAGE

02

PARTS LIST

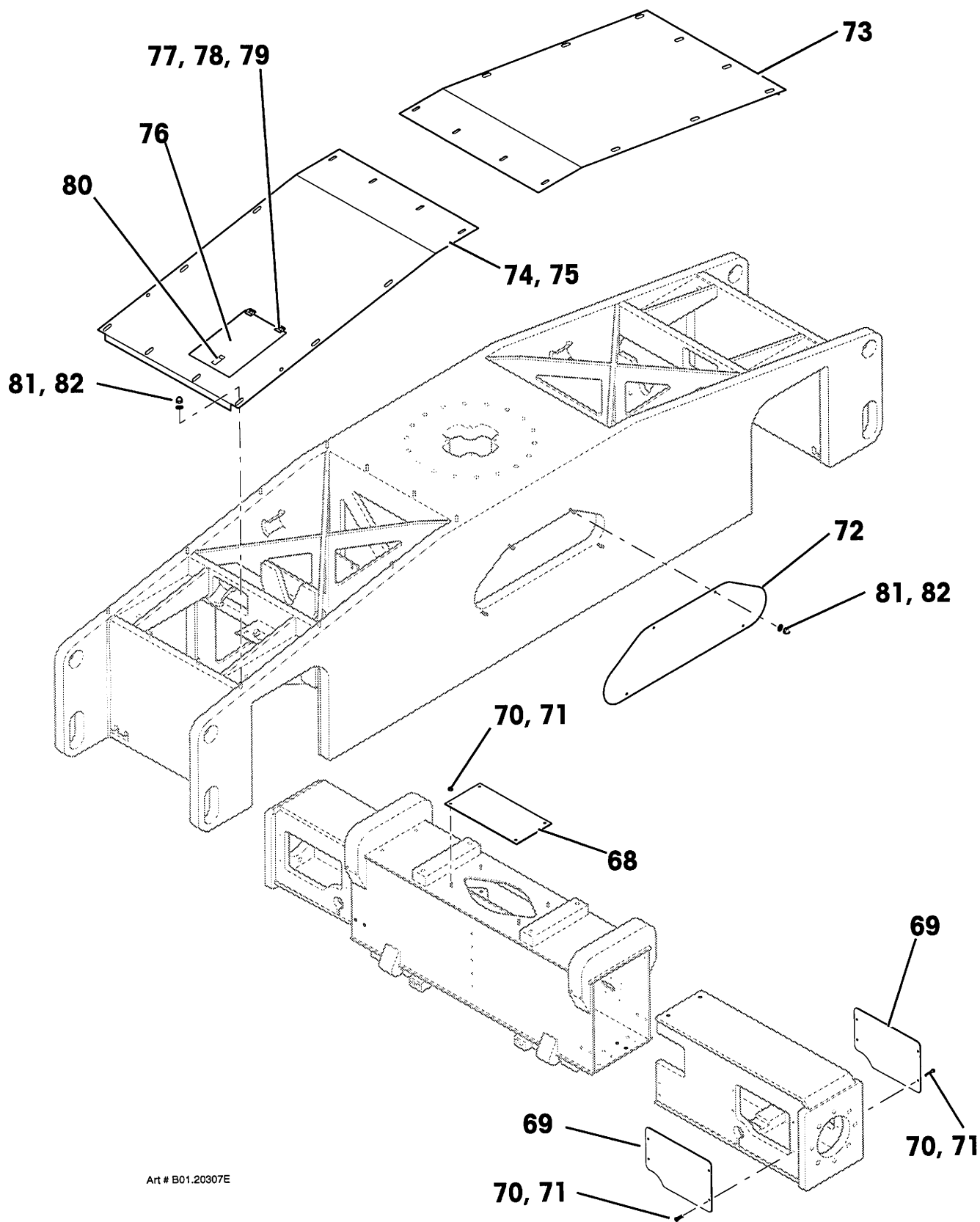
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
57	354 5750 354 5810	C13.201 C13.202	FRONT (STEER) AXLE ASSEMBLY For Two Wheel Drive versions (Standard) For Four Wheel Drive versions (Optional)	1
58	354 3590	C13.249	TIE ROD ASSEMBLY	1
59	07-090008		CAP SCREW, HEX HEAD (1"-8 x 3-1/2", Grade 8)	2
60	07-047124		NUT, HEX JAM (1"-14, Grade 5)	2
61	07-004154		CAP SCREW, HEX HEAD (3/4"-10 x 3-1/4", Grade 8)	8
62	07-004152		CAP SCREW, HEX HEAD (3/4"-10 x 2-3/4", Grade 8)	8
63	07-065022		WASHER, HELICAL LOCK (3/4")	16
64	07-061022		WASHER, FLAT (3/4", SAE, hardened)	16
65	235 8600		SHIM, AXLE MOUNTING (Side) (2.0" x 4.5" [51 x 114 mm]) .375" (9.5 mm) thick	A.R.
	235 8610		.250" (6.4 mm) thick	
	235 8620		12 Ga (.1046" [2.6 mm] thick)	
	235 8630		16 Ga (.0598" [1.5 mm] thick)	
66	354 2910	C13.203	REAR (DRIVE) AXLE ASSEMBLY Without Four Wheel Steering (Standard)	1
67			HOSE KIT, UNDERCARRIAGE	1
	354 3040 354 3030		For Two Wheel Drive versions (Standard) For Four Wheel Drive versions (Optional)	
			The following items are not included with the Undercarriage Assembly:	
68	235 9200		COVER, AXLE HOUSING (Top)	1
69	235 3030		COVER, AXLE HOUSING (Side)	4
70	07-050014		NUT, LOCK (1/4"-20, Grade 5)	20
71	07-062014		WASHER, FLAT (1/4")	20
72	235 7730		COVER, UNDERCARRIAGE ACCESS (Side)	2
73	235 3510		COVER, UNDERCARRIAGE ACCESS (Top, Front)	1
74	235 3520		COVER ASSEMBLY, UNDERCARRIAGE ACCESS (Top, rear)	1
75	235 3480		COVER, UNDERCARRIAGE ACCESS	1
76	235 3460		DOOR, AXLE CONTROLS ACCESS	1
77	10-095600		HINGE, ACCESS DOOR	2
78	07-097000		CAP SCREW, BUTTON HEAD (1/4"-20 x 3/4", Stainless steel)	8
79	07-050014		NUT, LOCK (1/4"-20, Grade 5)	8
80	10-267400		LATCH, ACCESS DOOR	1
81	07-044014		NUT, ACORN (1/4"-20, low crown, stainless steel)	24
82	07-062014		WASHER, FLAT (1/4")	24

TITLE

UNDERCARRIAGE ASSEMBLY, RP 86 AND T-80

SECTION **B01.** | PLATE NO. **203** | PAGE **03** | REV. **A** | DATED 29 MAY, 1996 | PART NO.

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Art # B01.20307E



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TITLE

UNDERCARRIAGE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV.

A

DATED

29 MAY, 1996

SECTION

B01.

PLATE NO.

203

PAGE

03

PARTS LIST

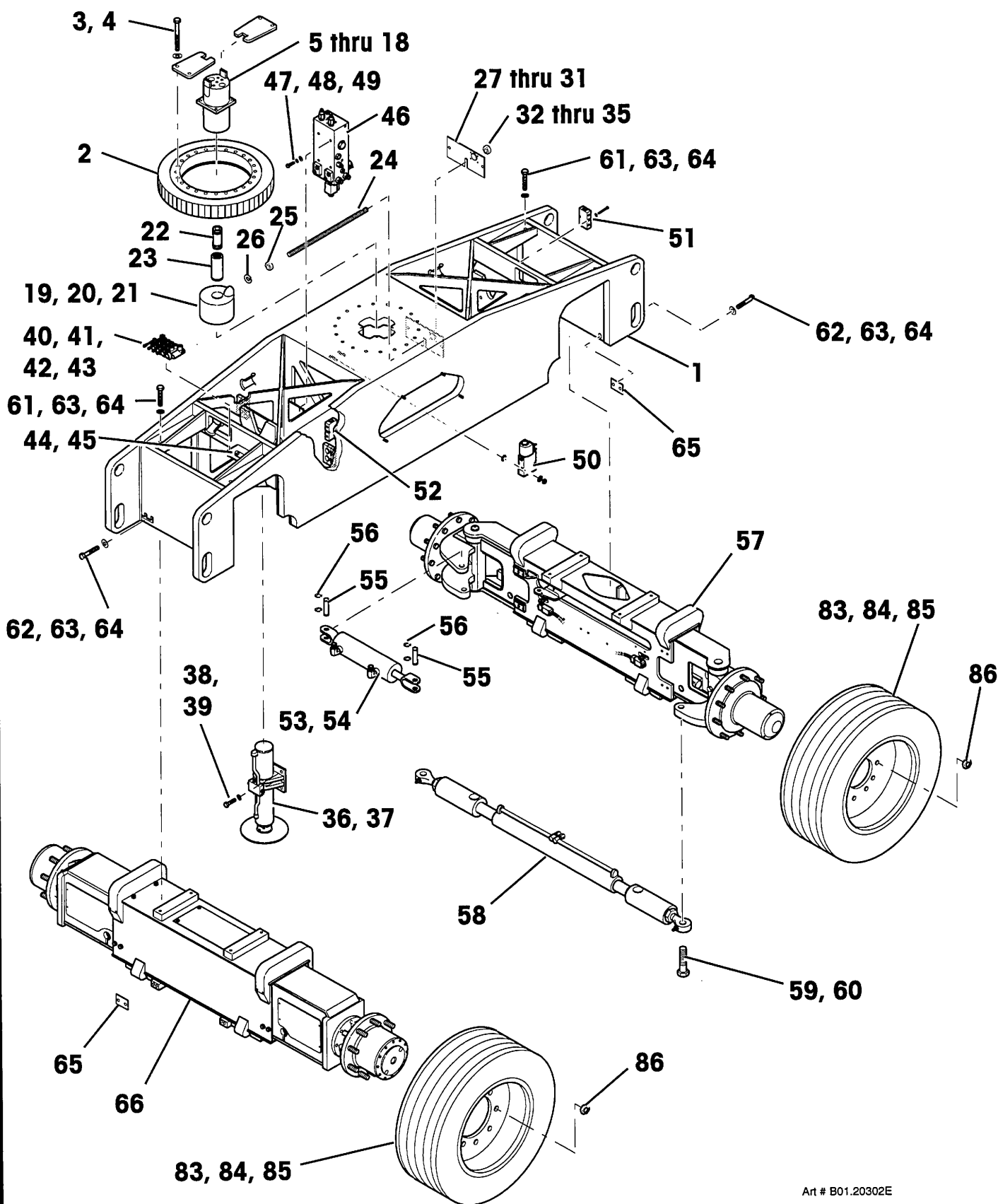
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TITLE	UNDERCARRIAGE ASSEMBLY, RP 86 AND T-80
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SECTION	B01.	PLATE NO.	203	PAGE	04	REV.	A	DATED	29 MAY, 1996	PART NO.
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Art # B01.20302E



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TITLE

UNDERCARRIAGE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV.

A

DATED

29 MAY, 1996

SECTION

B01.

PLATE NO.

203

PAGE

04

PARTS LIST

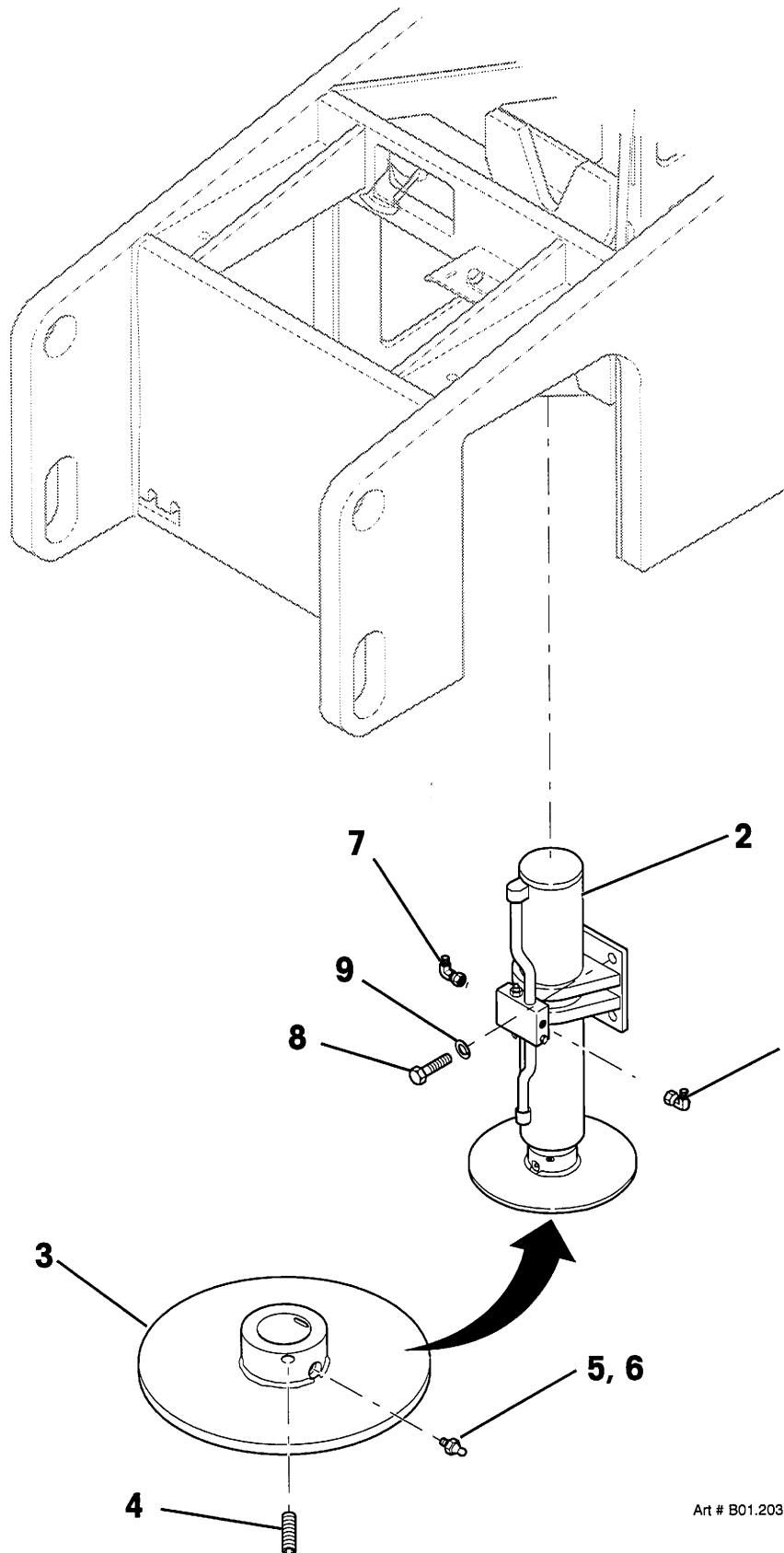
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TITLE UNDERCARRIAGE AXLE JACK ASSEMBLY, RP 86 AND T-80

SECTION	B01.	PLATE NO.	249	PAGE	01	REV.	A	DATED	28 MAY, 1996	PART NO.	354 3580
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Art # B01.20310E



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TITLE

UNDERCARRIAGE AXLE JACK ASSEMBLY, RP 86 AND T-80

PART
NO.

354 3580

REV. **A**

DATED
28 MAY, 1996

SECTION

B01.

PLATE NO.

249

PAGE

01

PARTS LIST

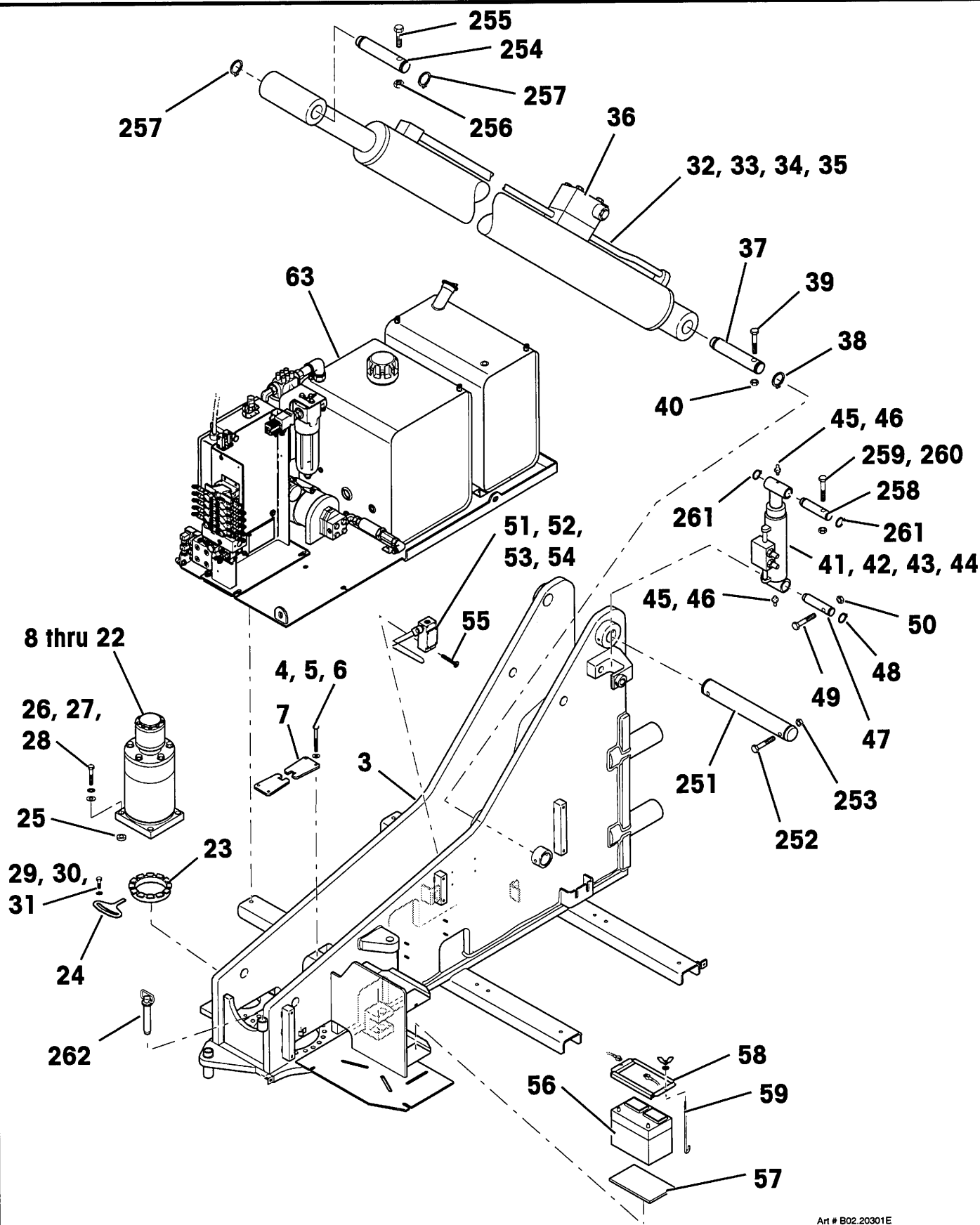
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 8000 354 2861 354 2860		SUPERSTRUCTURE GROUP Current version, Two Wheel Drive , with Load Sense Current version, Four Wheel Drive , with Load Sense Earlier version (For RP 86 S/N AXA 00147, 148 and AUA 00155) SUPERSTRUCTURE ASSEMBLY PYLON WELDMENT	1 1 1
2	234 9320		Standard version	
3	235 9040		Version with pad for optional "8 Meter Cutout" Limit Switch	
4	07-004653		CAP SCREW, HEX HEAD (3/4"-16 x 3", Grade 8)	19
5	07-004655		CAP SCREW, HEX HEAD (3/4"-16 x 3-1/4", Grade 8)	4
6	07-061022		WASHER, FLAT (3/4", SAE, hardened)	23
7	234 9450		PLATE, SWIVEL LOCK	2
8	352 9670		SPEED REDUCER (Swing drive) ASSEMBLY	1
9	See plate . .	D06.12	MOTOR, HYDRAULIC SWING	1
10	See plate . .	F02.04	REDUCER, SWING (Planetary gear type)	1
11	01-013800		VALVE, SHUTTLE	1
12	350 8820		HYDRAULIC TUBE ASSEMBLY (Approx. 8" (200 mm) long. Shuttle valve to brake.)	1
13	350 8835		HYDRAULIC TUBE ASSEMBLY ("U" shape)	2
14	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	2
15	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	1
16	06-044500		90° ELBOW, "O"-RING TO 37° (6-4 C50X-S)	1
17	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S)	1
18	06-048500		RUN TEE, MALE "O"-RING TO 37° (6 R50X-S)	2
19	06-090800		REDUCER/ EXPANDER (10-6 F50 G5-S)	2
20	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	2
21	07-062018		WASHER, FLAT (1/2")	2
22	07-065018		WASHER, HELICAL LOCK (1/2")	2
23	234 9460		RING, ECCENTRIC	1
24	234 9440		PLATE, ECCENTRIC LOCK	1
25	209 6362		SPACER, SWING DRIVE	4
26	07-004132		CAP SCREW, HEX HEAD (5/8"-11 x 2-3/4", Grade 8)	4
27	07-061021		WASHER, FLAT (5/8", SAE, hardened)	4
28	07-065021		WASHER, HELICAL LOCK (5/8")	4
29	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	2
30	07-060018		WASHER, FLAT (1/2", SAE)	2
31	07-065018		WASHER, HELICAL LOCK (1/2")	2

TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

SECTION **B02.** PLATE NO. **203** PAGE **01** REV. **A** DATED 24 JUN., 1996 PART NO.

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Art # B02.20301E



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TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV. **A**

DATED
24 JUN., 1996

SECTION

B02.

PLATE NO.

203

PAGE

01

PARTS LIST

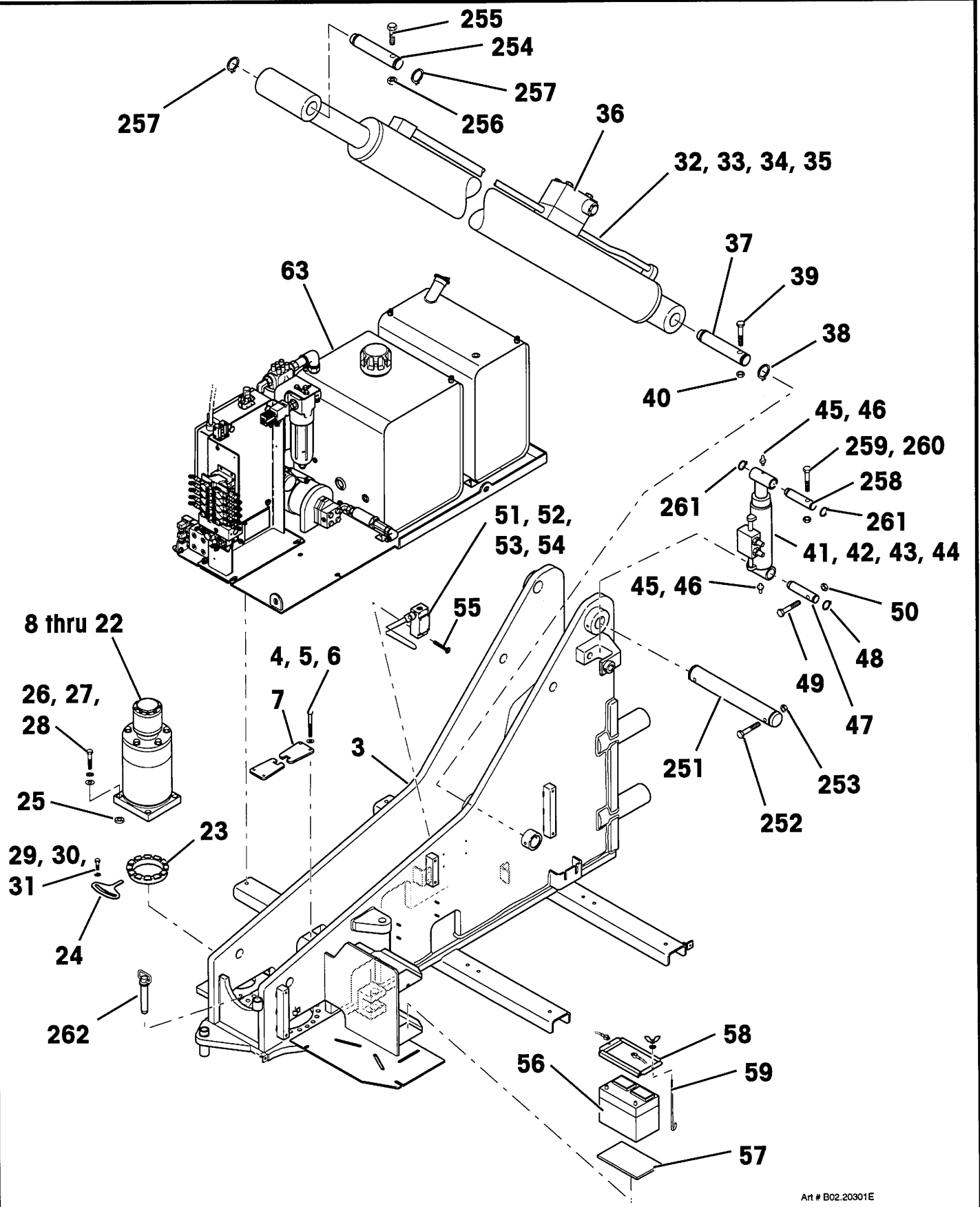
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SUPERSTRUCTURE ASSEMBLY (Continued)	
32	04-055300		LIFT CYLINDER	1
33	06-045000		90° ELBOW, "O"-RING TO 37° (8-10 C50X-S)	2
34	08-050000		FITTING, GREASE (1/8" NPT, Straight)	2
35	08-066300		CAP, GREASE FITTING (White plastic)	2
36	01-222000		VALVE, COUNTERBALANCE (10:1 Ratio)	1
37	234 9780		PIN, LIFT CYLINDER (Base end) (2.5" x 18.38")	1
38	08-043000		RING, SNAP (2.50")	2
39	07-003098		CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 5)	1
40	07-058400		NUT, STOP (1/2"-13)	1
41	See Plate . . .	D10.101	CYLINDER, MASTER LEVEL	1
42	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C50X-S)	2
43	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	1
44	06-052800		45° ELBOW, SWIVEL NUT (4 V6X-S)	1
45	08-051300		FITTING, GREASE (1/8" NPT, 90°)	2
46	08-066300		CAP, GREASE FITTING (White plastic)	2
47	215 1740		PIN, MASTER CYLINDER (Base end) (1.25" x 7.44")	1
48	08-040700		RING, SNAP (1.25")	2
49	07-003053		CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5)	1
50	07-050016		NUT, STOP (3/8"-16)	1
51	03-735600		SWITCH, LIMIT (Side rotary, positive break)	
			(One used on all versions, mounted on left wall as shown. Second switch mounts on right wall with 8m cutout option)	A.R.
52	03-736100		HUB, LIMIT SWITCH ARM	A.R.
53	235 9030		ARM, LIMIT SWITCH (for Limit Switch mounted on left wall) (bent wire, stainless steel, 13.5" [343 mm] long)	1
	235 9040		ARM, LIMIT SWITCH (for second Limit Switch mounted on right wall [Not shown. With "8 Meter Cutout" option.]) (bent wire, stainless steel, 15.5" [394 mm] long)	1
54	03-045500		GRIP, CORD (1/2", with .31" to .38" seal)	A.R.
55	07-008355		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/2", Grade 8)	A.R.
56	03-010001		BATTERY (12 Volt DC, 95 Amp)	2
57	10-113000		PROTECTOR, BATTERY (Neoprene, 8" x 12" x 1/8")	2
58	03-064300		HOLD DOWN, BATTERY	2
59	07-090111		J-BOLT (10" [254 mm] long) (includes wing nut)	4

TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

SECTION **B02.** | PLATE NO. **203** | PAGE **02** | REV. **A** | DATED **24 JUN., 1996** | PART NO.

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Art # B02.20301E



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TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV.
A

DATED
24 JUN., 1996

SECTION

B02.

PLATE NO.

203

PAGE
02

PARTS LIST

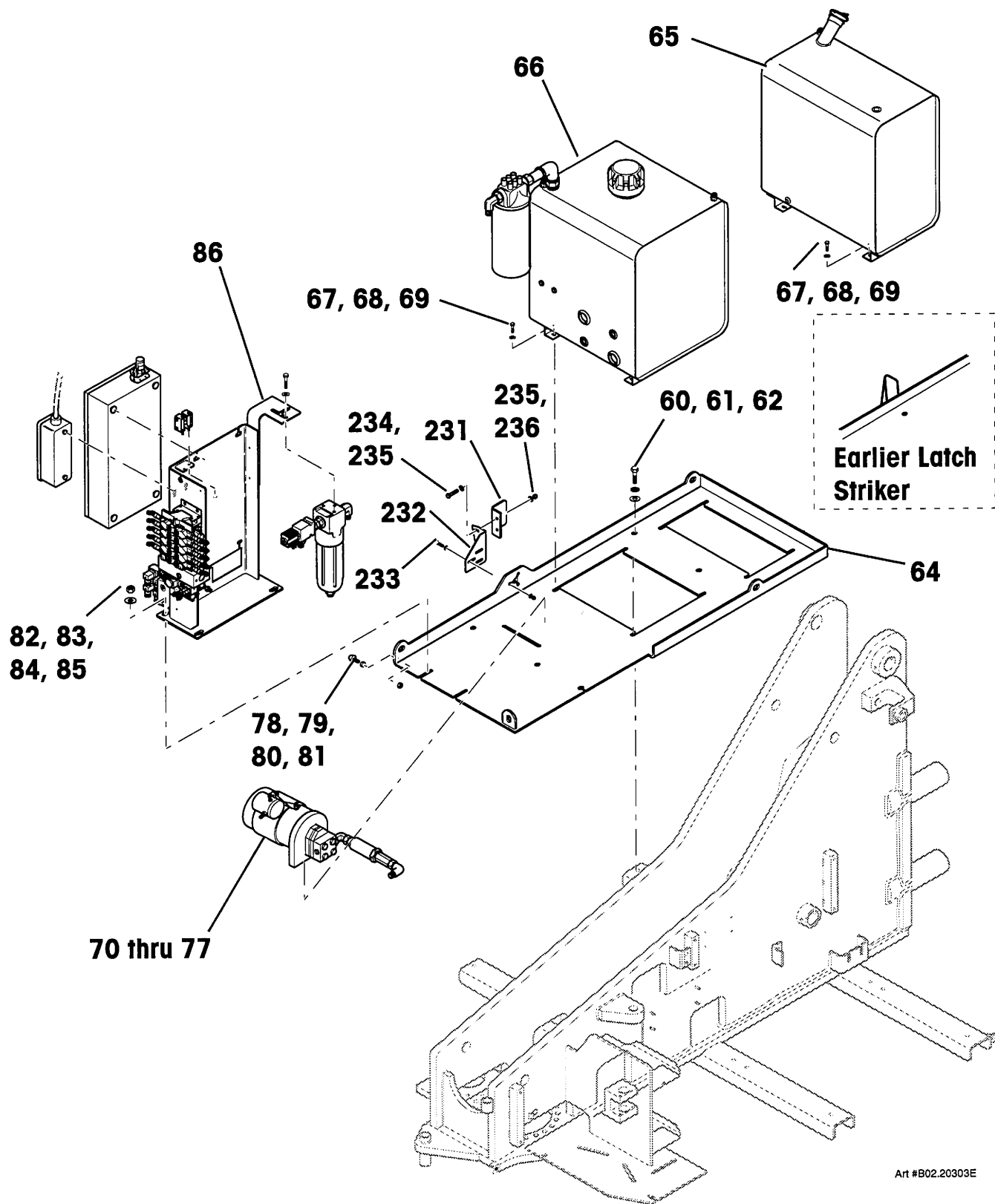
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
60	07-003128		SUPERSTRUCTURE ASSEMBLY (Continued)	
61	07-061021		CAP SCREW, HEX HEAD (5/8"-11 x 1-3/4", Grade 5)	5
62	07-050021		WASHER, FLAT (5/8", SAE)	10
63	07-050021		NUT, STOP (5/8"-11)	5
	354 4801		TRAY ASSEMBLY, TANK SIDE	1
	354 4800		Current version (for all except machines listed below)	
			Earlier version (for RP 86 S/N AXA 00147, AXA 00148 and AUA 00155 only)	
64	235 0520		TRAY, TANK SIDE	1
65	See Plate . . .	C11.05	FUEL TANK ASSEMBLY	1
66	See Plate . . .	C10.06	HYDRAULIC TANK ASSEMBLY	1
67	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	8
68	07-062018		WASHER, FLAT (1/2")	16
69	07-058400		NUT, STOP (1/2"-13)	8
70	See Plate . . .	D07.101	EMERGENCY PUMP	1
71	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S)	2
72	06-079000		CONNECTOR, SWIVEL NUT (6 F650X-S)	1
73	01-226000		FILTER ASSEMBLY (Screw-on)	1
74	01-226001		ELEMENT, FILTER	1
75	06-096100		UNION (6 F50F50-S)	1
76	01-020800		VALVE, POPPET CHECK (3 psi [.207 bar])	1
77	06-040100		ADAPTER, "O"-RING TO 37° (8 F50X-S)	1
78	10-138500		BUMPER, RECESSED (Rubber, 1" dia. x 1.2" high)	2
79			CAP SCREW, HEX HEAD (1/4"-20, Grade 5)	2
80	07-040014		NUT, HEX (1/4"-20, Grade 5)	2
81	07-047014		NUT, HEX JAM (1/4"-20, Grade 5)	2

TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

SECTION **B02.** | PLATE NO. **203** | PAGE **03** | REV. **A** | DATED 24 JUN., 1996 | PART NO.

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Art #B02.20303E



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TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV. **A**

DATED
24 JUN., 1996

SECTION

B02.

PLATE NO.

203

PAGE

03

PARTS LIST

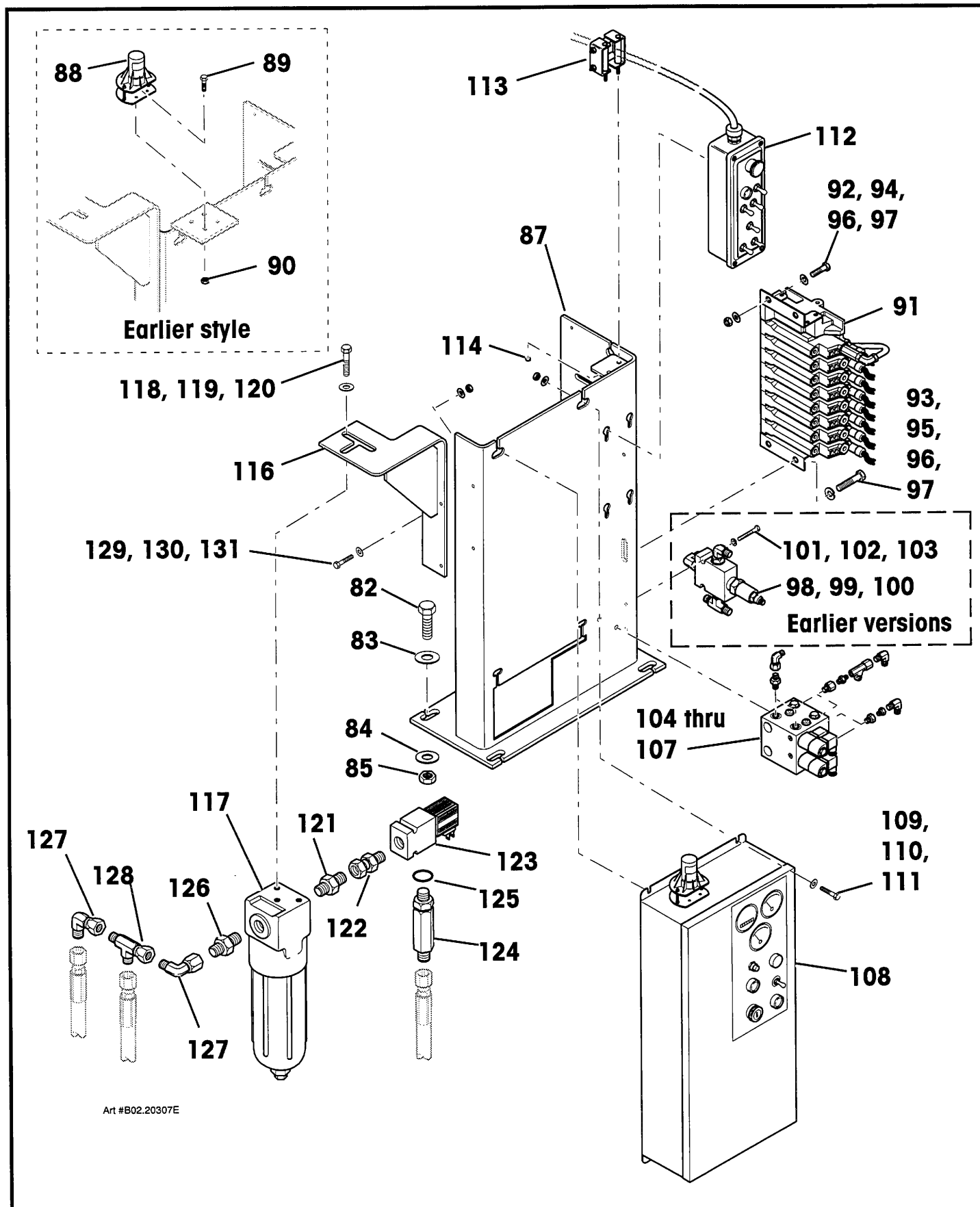
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SUPERSTRUCTURE ASSEMBLY (Continued)	
			TRAY ASSEMBLY, TANK SIDE (Continued)	
82	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
83	07-062018		WASHER, FLAT (1/2")	4
84	07-060018		WASHER, FLAT (1/2", SAE)	4
85	07-058400		NUT, STOP (1/2"-13)	4
86			GROUND CONTROL STAND ASSEMBLY	1
	354 2821		Current version (for all except machines listed below)	
	354 2820		Earlier version (For RP 86 S/N AXA 00147,	
			AXA 00148 and AUA 00155 only)	
87			BRACKET, GROUND CONTROL	1
	235 3140		Level sensor mounts on control box (current style)	
	234 9710		With bracket for level sensor (earlier style, see insert)	
88	03-487100		SENSOR, LEVEL (4.5°, 2 second delay) (For earlier style. Included with control box on later versions.)	1
89	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	2
90	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2
91	See Plate . . .	C02. - -	MANIFOLD ASSEMBLY	1
92	07-003048		CAP SCREW, HEX HEAD (3/8"-16 x 1-3/4", Grade 5)	2
93	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	2
94	03-040200		CLAMP, WIRE (EMT Strap) (.50")	3
95	07-060016		WASHER, FLAT (3/8", SAE)	2
96	07-062016		WASHER, FLAT (3/8")	4
97	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	4
98	01-239900		VALVE, PRESSURE REDUCING (For RP 86 S/N	1
			AXA 00147, AXA 00148 and AUA 00155 only)	
99	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S)	2
100	06-050000		BRANCH TEE, MALE "O"-RING TO 37° (6 S50X-S)	1
101	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
102	07-062014		WASHER, FLAT (1/4")	4
103	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2
104	See Plate . . .	C12.207	VALVE ASSEMBLY, PLATFORM TILT/ ROTATE	1
105	07-003061		CAP SCREW, HEX HEAD (3/8"-16 x 4-3/4", Grade 5)	2
106	07-060016		WASHER, FLAT (3/8", SAE)	4
107	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	2
108	See plate . .	C03. - -	PANEL ASSEMBLY, GROUND ELECTRICAL	1
109	07-003026		CAP SCREW, HEX HEAD (5/16"-18 x 1-1/4", Gr. 5)	4
110	07-062015		WASHER, FLAT (5/16")	4
111	07-050015		NUT, LOCK (5/16"-18, Grade 8)	4
112	See plate . . .	C06.202	PENDANT, REMOTE CONTROL	1
113	10-266900		GUIDE, ROLLER	1
114	07-050014		NUT, STOP (1/4"-20)	2

TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

SECTION **B02.** | PLATE NO. **203** | PAGE **04** | REV. **A** | DATED 24 JUN., 1996 | PART NO.

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Art #B02.20307E



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SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV. **A**

DATED
24 JUN., 1996

SECTION

B02.

PLATE NO.

203

PAGE

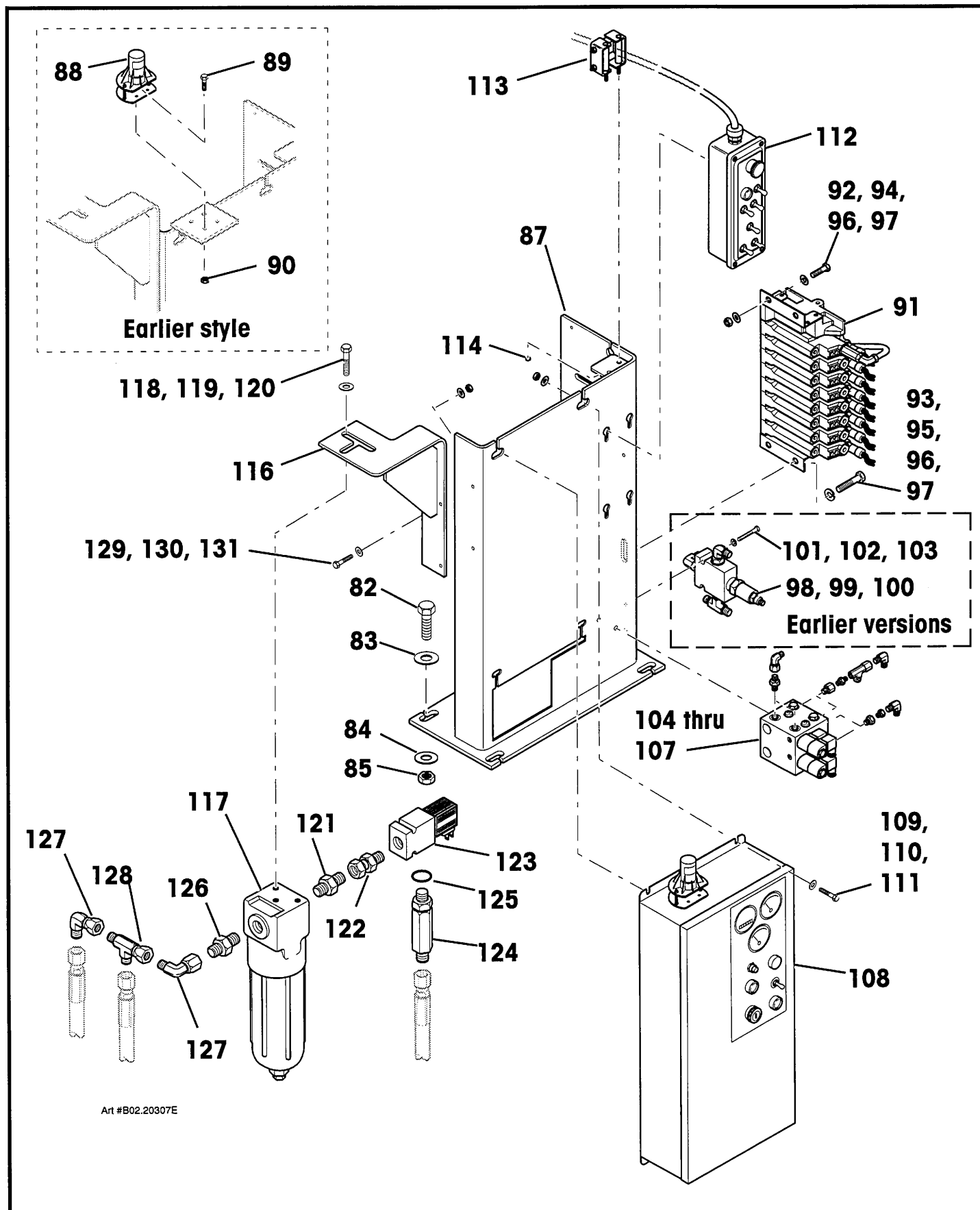
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PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SUPERSTRUCTURE ASSEMBLY (Continued) TRAY ASSEMBLY, TANK SIDE (Continued) GROUND CONTROL STAND ASSEMBLY (Continued)	
115	354 4831 354 4830		HIGH PRESSURE FILTER ASSEMBLY Current version Earlier version	1
116	235 4390	D11.04	BRACKET, FILTER MOUNTING	1
117	See Plate . . .		FILTER, HIGH PRESSURE	1
118	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	3
119	07-065016		WASHER, HELICAL LOCK (3/8")	3
120	07-062016		WASHER, FLAT (3/8")	3
121	06-041400		ADAPTER, "O"-RING TO 37° (16 F50X-S)	2
122	06-215200		CONNECTOR, SWIVEL NUT (16 F650X-S)	1
123	01-239400		VALVE, CARTRIDGE (On/ off, 10 Volt DC)	1
124	01-015900		VALVE, CHECK (SAE #16 ports)	1
125	01-040400		"O"-RING	1
126	06-041100		ADAPTER, "O"-RING TO 37° (12-16 F50X-S)	1
127	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	2
128	06-054800		RUN TEE, 37° SWIVEL NUT (12 R6X-S)	1
129	07-003005		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	2
130	07-062014		WASHER, FLAT (1/4")	2
131	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2

TITLE SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80				
SECTION B02.	PLATE NO. 203	PAGE 05	REV. A	DATED 24 JUN., 1996
PART NO.				

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PART
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REV. **A**

DATED
24 JUN., 1996

SECTION

B02.

PLATE NO.

203

PAGE

05

PARTS LIST

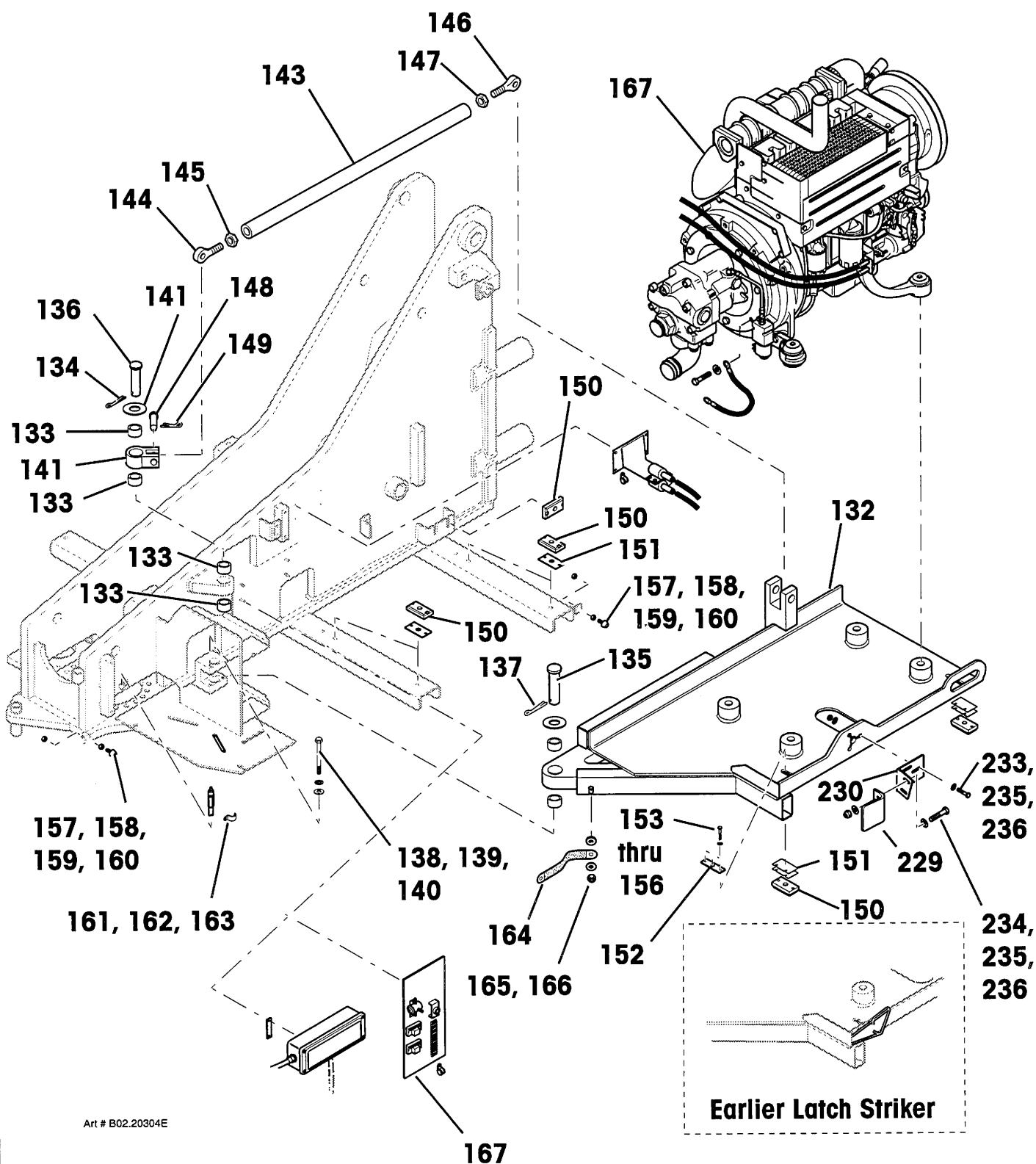
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
132			SUPERSTRUCTURE ASSEMBLY (Continued)	
	235 1010		TRAY, ENGINE SIDE	1
	235 1060		with Deutz F4L 1011 air cooled Diesel engine	
	235 1040		with Isuzu C 240 liquid cooled Diesel engine	
	Call Simon		with Ford LRG-423 liquid cooled gas or dual fuel engine	
			with engines other than those listed above	
133	08-075800		BEARING, SLEEVE	9
134	08-081200		BEARING, THRUST	3
135	07-118500		PIN, CLEVIS (Lower) (1.25" x 6" long)	1
136	07-119000		PIN, CLEVIS (Upper) (1.25" x 5" long)	1
137	07-118600		PIN, COTTER (Hairpin clip)	2
138	07-003098		CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 5)	1
139	07-065018		WASHER, HELICAL LOCK (1/2")	1
140	07-062018		WASHER, FLAT (1/2")	1
141	235 2180		BLOCK, PIVOT	1
142	354 4850		TIE ROD ASSEMBLY, ENGINE TRAY MOUNTING	1
143	235 2190		TIE ROD (1.12" dia, 42.88" long)	1
144	08-007100		TIE ROD END (Right hand thread)	1
145	07-047122		NUT, JAM (3/4"-16, Right hand thread)	1
146	08-060600		TIE ROD END (Left hand thread)	1
147	07-048122		NUT, JAM (3/4"-16", Left hand thread)	1
148	07-115300		PIN, CLEVIS (1.25" x 2.50" long)	2
149	07-070511		PIN, COTTER (.12" x 2.50")	2
150	235 0900		PAD, SLIDER	5
151	235 5590		SHIM, ENGINE TRAY SLIDER PAD	A.R.
152	235 1080		WASHER, ENGINE TRAY SLIDER PAD	2
153	07-040018		NUT, HEX (1/2"-13)	10
154	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	10
155	07-065018		WASHER, HELICAL LOCK (1/2")	10
156	07-062018		WASHER, FLAT (1/2")	10
157	10-138500		BUMPER, RECESSED (Rubber, 1" dia. x 1.2" high)	2
158			CAP SCREW, HEX HEAD (1/4"-20, Grade 5)	2
159	07-040014		NUT, HEX (1/4"-20, Grade 5)	2
160	07-047014		NUT, HEX JAM (1/4"-20, Grade 5)	2
161	03-040200		CLAMP, WIRE (EMT Strap) (.50")	1
162	08-050000		FITTING, GREASE (1/8" NPT, Straight)	1
163	08-066300		CAP, GREASE FITTING (White plastic)	1
164	03-735800		STRAP, GROUND (12" [30.5 cm] long)	1
165	07-060016		WASHER, FLAT (3/8", SAE)	2
166	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	1
167	See Plate . . .	C04. - -	ENGINE ASSEMBLY	1

TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

SECTION **B02.** PLATE NO. **203** PAGE **06** REV. **A** DATED 24 JUN., 1996 PART NO.

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SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV.
A

DATED
24 JUN., 1996

SECTION

B02.

PLATE NO.

203

PAGE

06

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
168	234 9500		SUPERSTRUCTURE ASSEMBLY (Continued)	1
169	07-003223		COUNTERWEIGHT MODULE	4
170	07-065025		CAP SCREW, HEX HEAD (1-1/4"-7 x 7")	4
171	07-062025		WASHER, HELICAL LOCK (1-1/4")	4
172	235 4510		WASHER, FLAT (1-1/4")	1
173	03-737000		BRACKET, HORN AND MOVEMENT ALARM	1
174	07-050014		GROMMET, RUBBER	3
175	07-111600		NUT, STOP (1/4"-20)	1
176	07-062014		WASHER, EXTERNAL TOOTH (1/4")	3
177	03-731300		WASHER, FLAT (1/4")	1
178	07-003025		HORN, WARNING	1
179	07-062014		CAP SCREW, HEX HEAD (5/16"-18 x 1", Grade 5)	2
180	07-000000		WASHER, FLAT (1/4")	1
181	07-050015		WASHER, EXTERNAL TOOTH (5/16")	1
182	03-464600		NUT, STOP (5/16"-18)	1
183	07-003005		ALARM, MOVEMENT (102 db, 12-24 Volt DC)	2
184	07-060014		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	2
185	07-111600		WASHER, FLAT (1/4", SAE)	1
186	07-050014		WASHER, EXTERNAL TOOTH (1/4")	2
187			NUT, STOP (1/4"-20)	1
	354 4840		HOSE KIT	
			RP 86, with Two Wheel Steering	
			The following items are not part of the Superstructure Group:	
188	235 5860		COVER, ENGINE with Deutz F4L 1011 air cooled Diesel engine	1
189	07-062014		WASHER, FLAT (1/4")	8
190	07-050014		NUT, STOP (1/4"-20)	8
191	235 5880		TUBE, COOLING AIR INTAKE (Rubber, 11.15" I.D., 7" long)	1
192	09-019500		CLAMP KIT, WORM DRIVE (.38" wide, stainless steel, with hardware. 100 ft [30.5 m] in kit, cut to fit.)	A.R.
193	235 5320		SEAL, ENGINE (Upper, Lower) (Neoprene, 26" [.65 M] long)	2
194	235 5340		RETAINER, ENGINE SEAL (Upper, Lower) (26" [.65 M] long)	2
195	235 5330		SEAL, ENGINE (Side) (Neoprene, 27.3" [.68 M] long)	2
196	235 5350		RETAINER, ENGINE SEAL (Side) (25.3" [.63 M] long)	2

TITLE

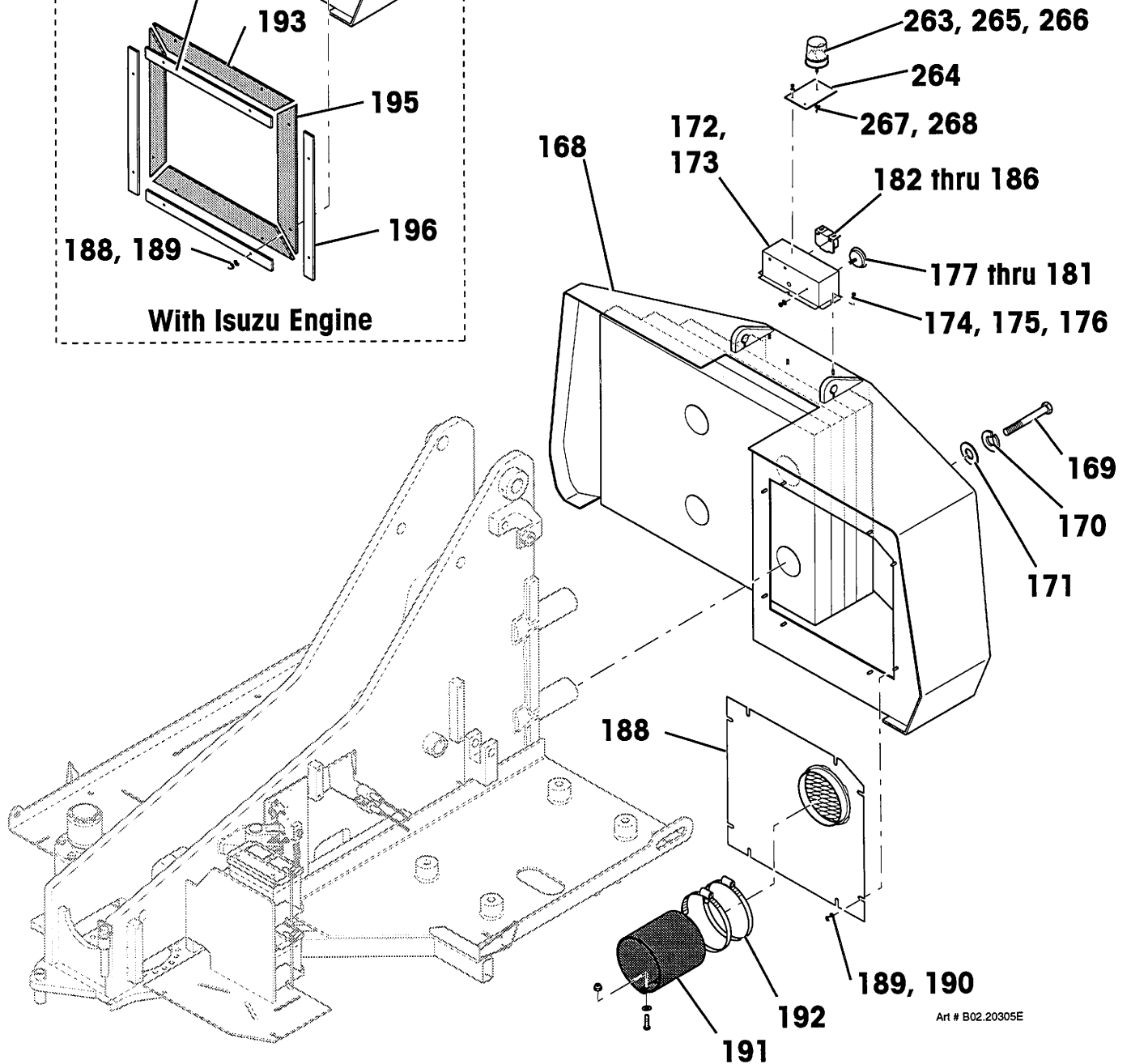
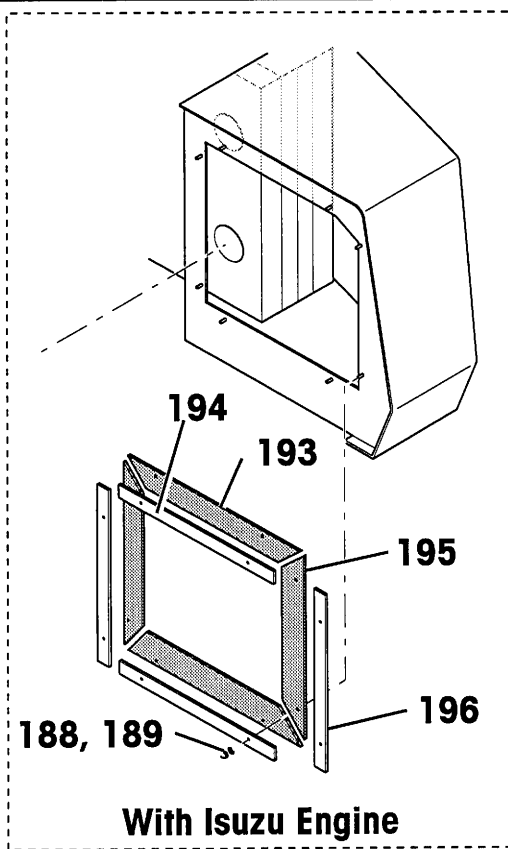
SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

SECTION **B02.** PLATE NO. **203** PAGE **07**

REV. **A** DATED **24 JUN., 1996**

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Art # B02.20305E



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SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV. **A**

DATED
24 JUN., 1996

SECTION

B02.

PLATE NO.

203

PAGE **07**

PARTS LIST

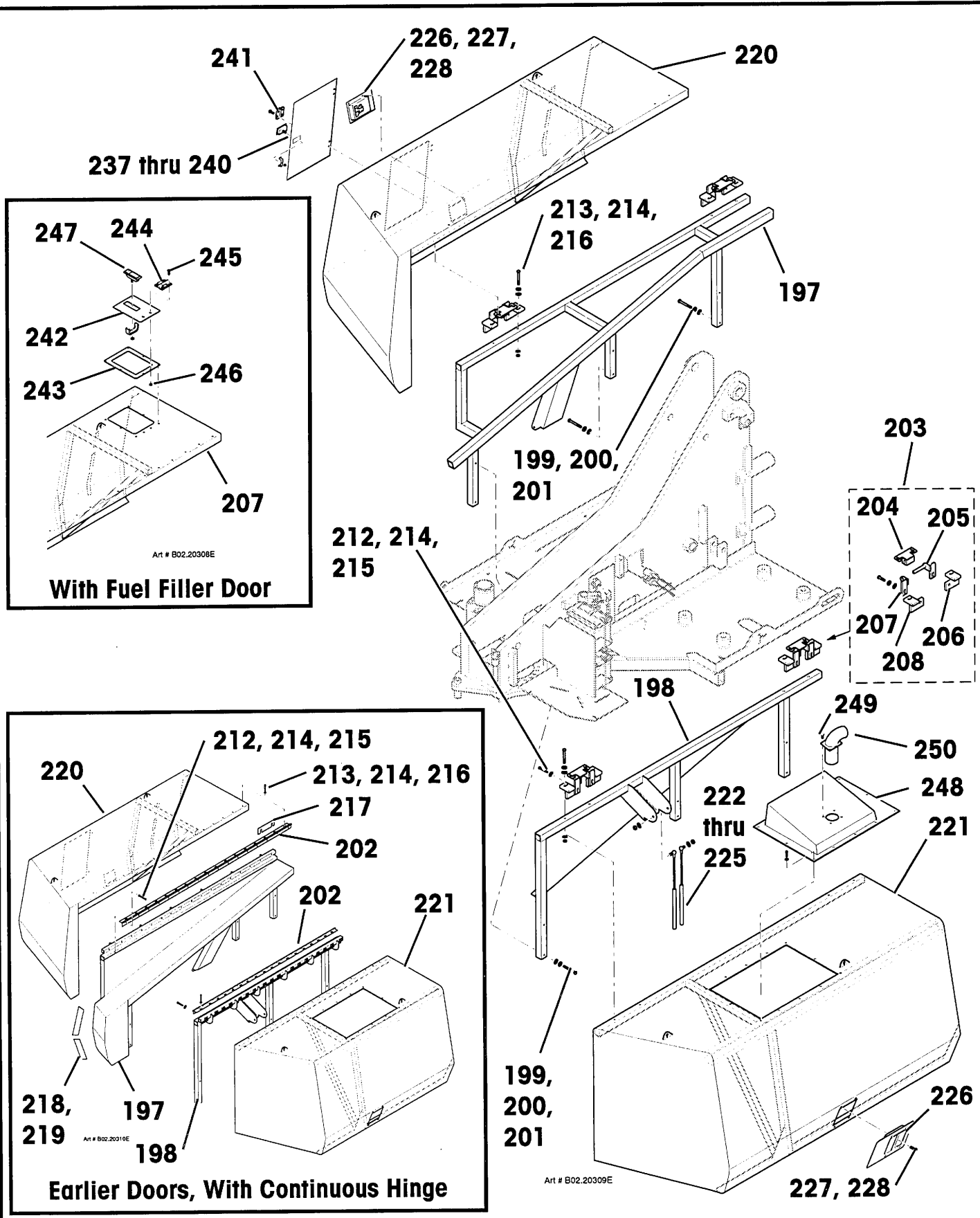
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
197	236 0740 235 4970		FRAME, DOOR (Tank side) For current style doors, using adjustable hinges For earlier style doors, using continuous hinge (see insert)	1
198	236 0750 235 3190		FRAME, DOOR (Engine side) For current style doors, using adjustable hinges For earlier style doors, using continuous hinge (see insert)	1
199	07-004094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 8)	12
200	07-065018		WASHER, HELICAL LOCK (1/2")	12
201	07-062018		WASHER, FLAT (1/2")	12
202	235 3440		HINGE, SUPERSTRUCTURE DOOR (earlier continuous style)	2
203	236 0590		HINGE ASSEMBLY, SUPERSTRUCTURE DOOR (current adjustable style)	4
204	236 0640		HINGE SECTION (Door half)	1
205	236 0720		HINGE SECTION ASSEMBLY (Frame half, with pin)	1
206	236 0600		PAD, HINGE ADJUSTMENT (for pin section)	1
207	236 0630		HINGE SECTION (Frame half, with socket for pin)	1
208	236 0610		PAD, HINGE ADJUSTMENT (for socket section)	1
209	07-003025		CAP SCREW, HEX HEAD (5/16"-18 x 1", Grade 5)	2
210	07-062015		WASHER, FLAT (5/16")	2
211	07-065015		WASHER, HELICAL LOCK (5/16")	2
212			CAP SCREW, HEX HEAD (5/16"-18, Grade 5) For current style doors, using adjustable hinges	8
213	07-017030		For earlier style doors, using continuous hinge (see insert) CAP SCREW, BUTTON HEAD (5/16"-18 x 2-1/4", Grade 5) For current style doors, using adjustable hinges	34 8
214	07-062015		For earlier style doors, using continuous hinge (see insert) WASHER, FLAT (5/16") For current style doors, using adjustable hinges	34 16
215	07-065015		For earlier style doors, using continuous hinge (see insert) WASHER, HELICAL LOCK (5/16") For current style doors, using adjustable hinges	68 8
216	07-050015		For earlier style doors, using continuous hinge (see insert) NUT, STOP (5/16"-18, Grade 5) For current style doors, using adjustable hinges	34 8
217	236 0210		For earlier style doors, using continuous hinge (see insert) SHIM, DOOR FRAME (for earlier style, continuous hinge)	34 A.R.
218	236 0500		WEAR STRIP (Upper, 11" [279 mm] long)	1
219	236 0510		WEAR STRIP (Lower, 7" [178 mm] long)	1

TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

SECTION **B02.** PLATE NO. **203** PAGE **08** REV. **A** DATED 24 JUN., 1996 PART NO.

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TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

PART NO.

REV. A

DATED 24 JUN., 1996

SECTION

B02.

PLATE NO.

203

PAGE

08

PARTS LIST

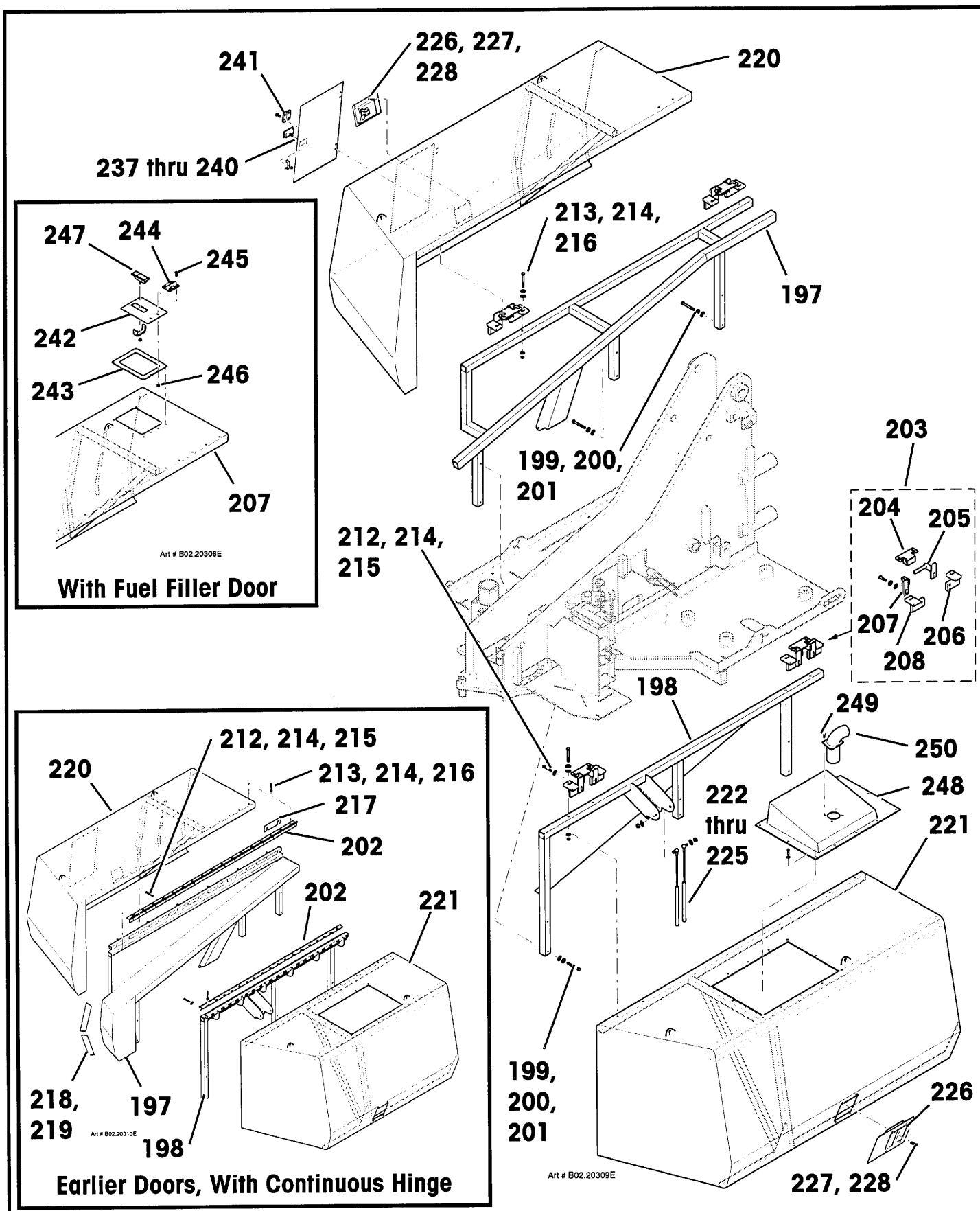
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
220	236 1890		DOOR, SUPERSTRUCTURE (Tank side) Current style, using adjustable hinges For earlier style doors, using continuous hinge (see insert)	1
221	235 3080 236 0570		Without Fuel Filler Door With Fuel Filler Door DOOR, SUPERSTRUCTURE (Engine side)	1
222	236 1900 235 3090 10-267100		Current style, using adjustable hinges For earlier style doors, using continuous hinge (see insert) SPRING, GAS (Gas cylinder)	4
223	10-267200		STUD, BALL	2
224	10-267300		CLIP, SAFETY	2
225	07-050015		NUT, STOP (5/16"-18, Grade 5)	8
226	236 1310		LATCH, SUPERSTRUCTURE DOOR	2
227			CAP SCREW, BUTTON HEAD (#10-32 x 3/4")	8
228			NUT, STOP (#10)	8
229	236 1000		STRIKER, SUPERSTRUCTURE DOOR LATCH (on Engine side tray)	1
230	235 6970		BRACKET, STRIKER (on Engine side tray)	1
231	236 1240		STRIKER, SUPERSTRUCTURE DOOR LATCH(on Tank side tray)	1
232	235 6980		BRACKET, STRIKER (on Tank side tray)	1
233	07-003006		CAP SCREW, HEX HEAD (1/4"-20 x 1-1/4", Grade 5)	6
234	07-003005		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	4
235	07-062014		WASHER, FLAT (1/4")	20
236	07-050014		NUT, STOP (1/4"-20, Grade 5)	10
237	235 3680		DOOR, CONTROLS ACCESS	1
238	10-158400		HINGE, CONTROLS ACCESS DOOR	2
239	07-097000		CAP SCREW, BUTTON HEAD (1/4"-20 x 3/4", Stainless Steel)	8
240	07-050014		NUT, STOP (1/4"-20, Grade 5)	8
241	10-267400		LATCH, CONTROLS ACCESS DOOR (includes attaching parts)	1
242	236 0310		DOOR, FUEL FILLER ACCESS	1
243	236 0320		PLATE, FUEL FILLER ACCESS DOOR REINFORCEMENT	1
244	10-158400		HINGE, FUEL FILLER ACCESS DOOR	1
245	07-097000		CAP SCREW, BUTTON HEAD (1/4"-20 x 3/4", Stainless Steel)	4
246	07-050014		NUT, STOP (1/4"-20, Grade 5)	4
247	10-267400		LATCH, FUEL FILLER ACCESS DOOR (includes attaching parts)	1

TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

SECTION **B02.** PLATE NO. **203** PAGE **09** REV. **A** DATED 24 JUN., 1996 PART NO.

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TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

PART NO.

REV. A

DATED 24 JUN., 1996

SECTION

B02.

PLATE NO.

203

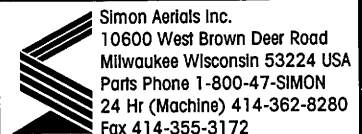
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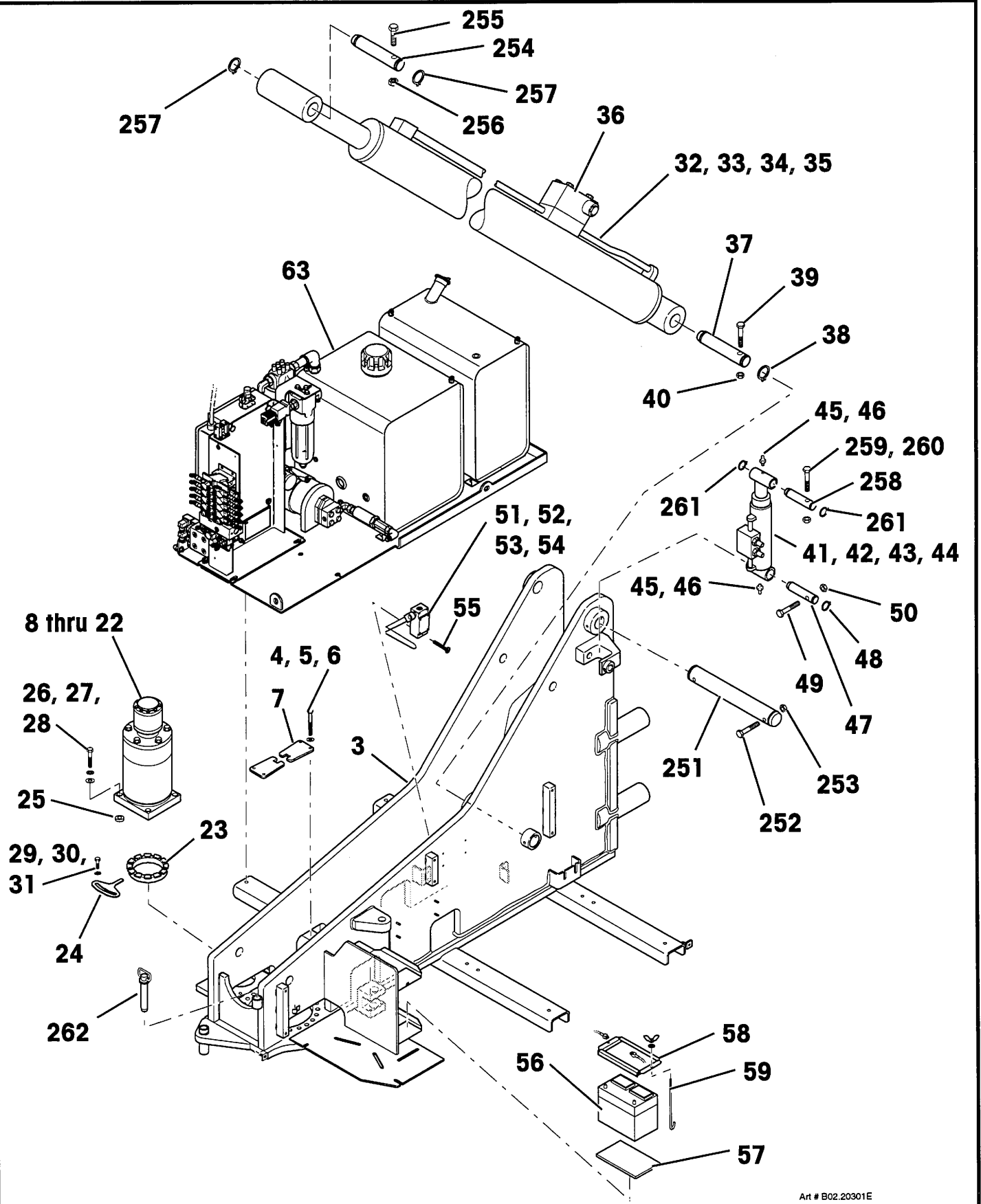
09

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
248	235 5490 235 8740		VENT, ENGINE AIR (Pagoda) Without engine-specific exhaust cutout for Deutz F4L 1011 engine	1
249	235 5510 255 5400 07-029365		for Isuzu C-240 engine (Later style, intake faces inward) for Isuzu C-240 engine (Earlier style, intake faces outward) SCREW, HEX WASHER HEAD (#12-14, self drilling, with rubber seal)	16
250	235 5520 235 5410		ELBOW, EXHAUST OUTLET for Isuzu C-240 engine (with later style pagoda) for Isuzu C-240 engine (with earlier style pagoda)	1
251	234 9940		PIN, BOOM PIVOT (2.50" x 19.50")	1
252	07-090144		CAP SCREW, HEX HEAD (1/2"-13 x 6", Grade 5)	2
253	07-058400		NUT, LOCK (1/2"-13, Grade 8)	2
254	235 2050		PIN, LIFT CYLINDER (Rod end) (2.50" x 13.00")	1
255	07-003097		CAP SCREW, HEX HEAD (1/2"-13 x 4", Grade 5)	1
256	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
257	08-043000		RING, RETAINING (2.50")	2
258	219 0580		PIN, MASTER CYLINDER (Rod end) (1.25" x 5.56")	1
259	07-003055		CAP SCREW, HEX HEAD (3/8"-16 x 3-1/2", Grade 5)	1
260	07-050016		NUT, LOCK (3/8"-16, Grade 5)	1
261	08-040700		RING, RETAINING (1.25")	2
262	07-080004		PIN, HITCH (1-1/4" x 7")	1
			The following optional items are available:	
263			BEACON (Amber) ROTATING STROBE	1 1 1
264	236 0760 236 1270		BRACKET, BEACON MOUNTING For Rotating Beacon For Strobe Beacon	1
265	07-013414		MACHINE SCREW, ROUND HEAD (#10-32 x 1/2", Grade 2)	1
266	07-050111		NUT, LOCK (#10-32, Grade 2)	1
267	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	2
268	07-050014		NUT, STOP (1/4"-20)	2

TITLE							SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80														
SECTION		B02.		PLATE NO.		203		PAGE		10		REV.		A		DATED		24 JUN., 1996		PART NO.	





Art # B02.20301E



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TITLE

SUPERSTRUCTURE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV.
A

DATED
24 JUN., 1996

SECTION

B02.

PLATE NO.

203

PAGE

10

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2650		BOOM GROUP	1
2	354 2640		BOOM ASSEMBLY	1
3	235 0210		BASE BOOM WELDMENT	1
4	230 4460		PAD, WEAR (2" x 8") (Base boom bottom)	2
5	218 7740		PAD, WEAR (2" x 4") (Base boom side)	4
6	230 2410		PAD, WEAR (Base boom top)	1
7	07-003125		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	4
8	07-003084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 5)	10
9	07-065018		WASHER, HELICAL LOCK (1/2")	14
10	07-047018		NUT, JAM (1/2"-13, Grade 5)	14
11	03-735600		SWITCH, LIMIT (Side rotary, positive break)	1
12	03-736100		HUB, LIMIT SWITCH ARM	1
13	236 1970		ARM, LIMIT SWITCH (bent wire, stainless steel)	1
14	07-008355		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/2", Grade 8)	2
15	03-045500		GRIP, CORD (1/2", with .31" to .38" seal)	1
16	03-085200		CABLE, ELECTRICAL (SJO, 2 conductor, #16 AWG) (Bulk item, 18 ft [5.5 m] required this application)	A.R.
	03-719300		CABLE, ELECTRICAL (8 conductor) (Bulk item, 130 ft [39.6 m] required this application)	A.R.
	03-085900		CABLE, ELECTRICAL (SJO, 3 conductor, #12 AWG) (Bulk item, 130 ft [39.6 m] required this application)	A.R.
17	03-064700		TIE, CABLE [14.5" (368 mm) long]	25
18	354 2780		HOSE KIT, BOOM	1
19	10-113200		PROTECTOR, HOSE (Neoprene, 6" x 9" x 1/8")	9

TITLE

BOOM ASSEMBLY, RP 86

SECTION

B03.

PLATE NO.

204

PAGE

01

REV.

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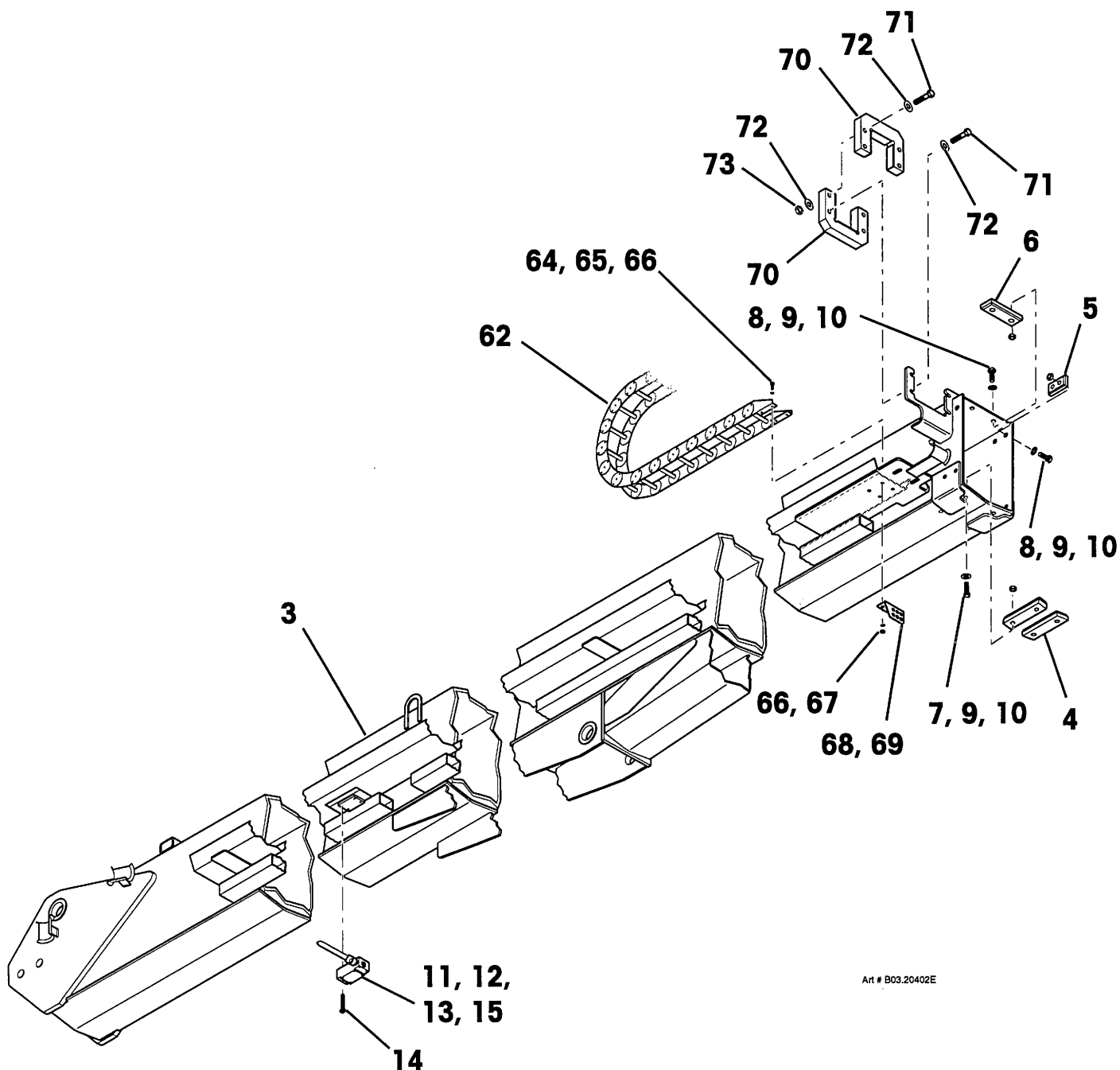
29 MAY, 1996

PART NO.

354 2650



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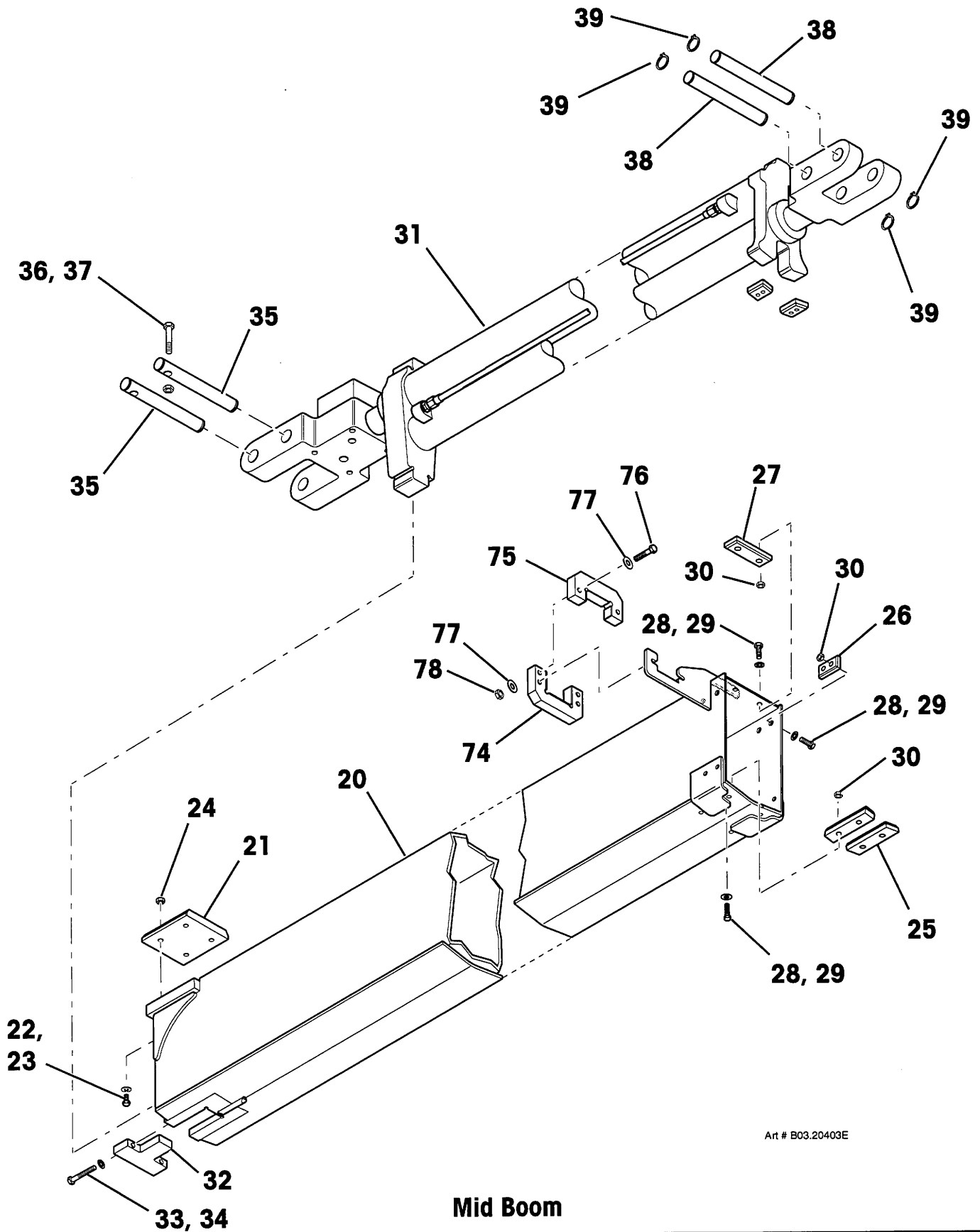


Art # B03.20402E

Base Boom

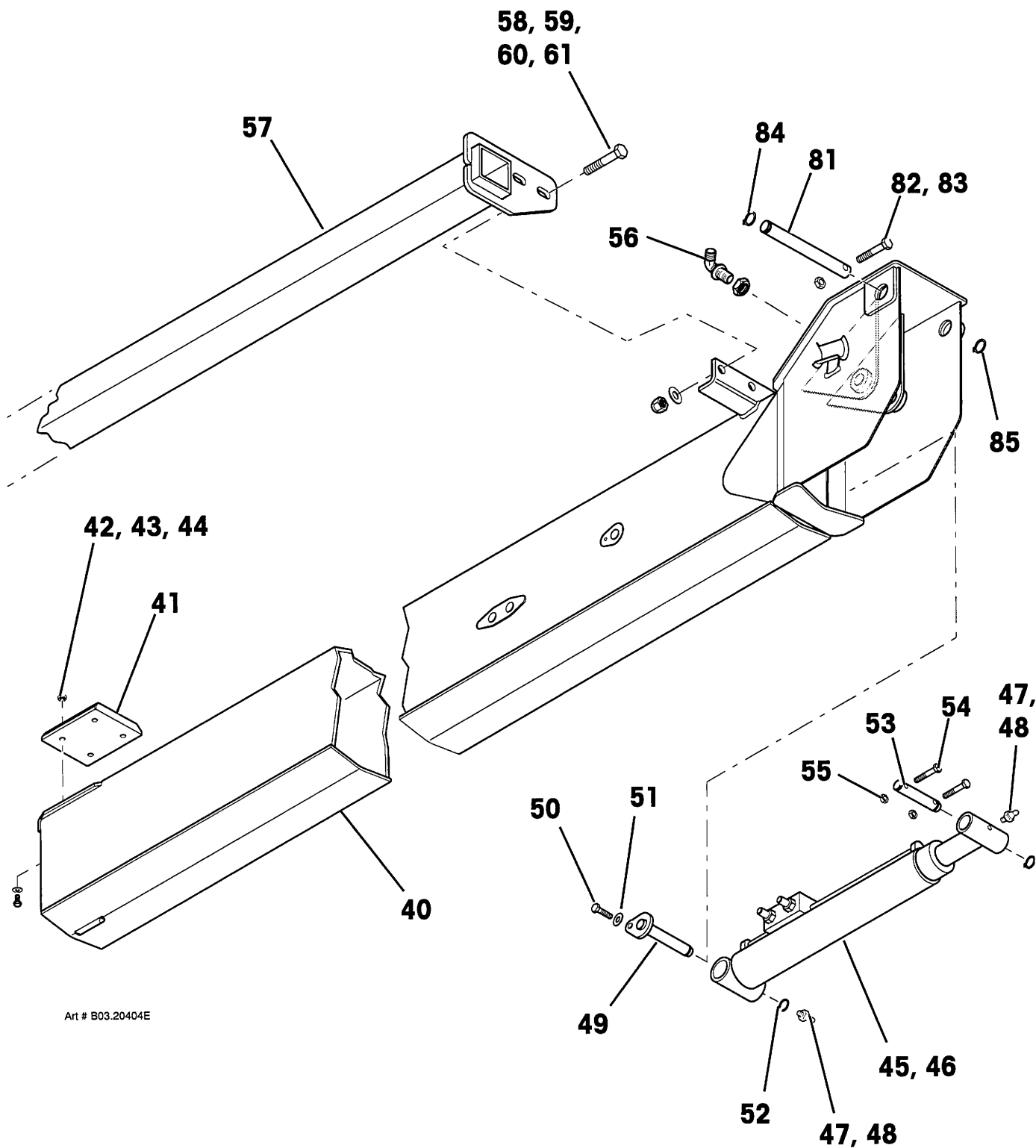
 Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE BOOM ASSEMBLY, RP 86				
	PART NO. 354 2650	REV. A	DATED 29 MAY, 1996	SECTION B03.	PLATE NO. 204 PAGE 01

PARTS LIST					
ITEM	PART NO	SEE SECTION	DESCRIPTION		QTY.
			BOOM ASSEMBLY (continued)		
20	234 9790		MID BOOM WELDMENT		1
21	230 2460		PAD, WEAR (7" x 9-5/8") (Mid boom top, front)		1
22	07-003129		CAP SCREW, HEX HEAD (5/8"-11 x 2", Grade 5)		4
23	07-065021		WASHER, HELICAL LOCK (5/8")		4
24	07-047021		NUT, JAM (5/8"-11, Grade 5)		4
25	218 7750		PAD, WEAR (2" x 6") (Mid boom bottom, rear)		2
26	218 7740		PAD, WEAR (2" x 4") (Mid boom side, rear)		4
27	218 7760		PAD, WEAR (2" x 4-3/4") (Mid boom top, rear)		1
28	07-003084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 5)		14
29	07-065018		WASHER, HELICAL LOCK (1/2")		14
30	07-047018		NUT, JAM (1/2"-13, Grade 5)		14
31	See Plate . . .	D19.202	CYLINDER, DOUBLE TELESCOPE		1
32	232 0700		CAP, TELESCOPE CYLINDER MOUNTING		2
33	07-003131		CAP SCREW, HEX HEAD (5/8"-11 x 2-1/2", Grade 5)		4
34	07-065021		WASHER, HELICAL LOCK (5/8")		4
35	235 3040		PIN, TELESCOPE CYLINDER (1.25" x 10.50") (at base boom)		2
36	07-003055		CAP SCREW, HEX HEAD (3/8"-16 x 3-1/2", Grade 5)		1
37	07-050016		NUT, LOCK (3/8"-16, Grade 5)		1
38	232 0520		PIN, TELESCOPE CYLINDER (1.25" x 7.09") (at tip boom)		2
39	08-040700		RING, RETAINING (1.25")		8
TITLE BOOM ASSEMBLY, RP 86				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 B03.	PLATE NO. 204	PAGE 02	REV. A DATED 29 MAY, 1996	PART NO. 354 2650	



Mid Boom

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Art # B03.20404E

Tip Boom

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TITLE

BOOM ASSEMBLY, RP 86

PART NO.

354 2650

REV. A

DATED
29 MAY, 1996

SECTION

B03.

PLATE NO.

204

PAGE

03

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
57	235 0650		BOOM ASSEMBLY (continued)	1
58	07-003088		ANCHOR WELDMENT, MOVING	2
59	07-060018		CAP SCREW, HEX HEAD (1/2"-13 x 1-3/4", Grade 5)	2
60	07-062018		WASHER, FLAT (1/2", SAE)	2
61	07-058400		WASHER, FLAT (1/2")	2
62	08-080900		NUT, LOCK (3/8"-16, Grade 8)	1
63	08-072702		CARRIER, HOSE (Entire length, 78 links)	A.R.
64	08-072701		CARRIER, HOSE (3 Ft [.9 M] long repair section)	4
65	07-017046		PUSH NUT (Single)	2
66	07-017045		CAP SCREW, BUTTON HEAD (3/8"-16 x 1-1/4", Grade 5)	2
67	07-017045		CAP SCREW, BUTTON HEAD (3/8"-16 x 1", Grade 5)	2
68	07-062016		WASHER, FLAT (3/8")	6
69	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
70	235 2850		BRACKET, BULKHEAD FITTING	1
71	06-031800		UNION, BULKHEAD (4 WTX-S)	2
72	235 2320		GUIDE, MOVING ANCHOR (at Base Boom)	2
73	07-003052		CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5)	4
74	07-062016		WASHER, FLAT (3/8")	8
75	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
76	235 1990		GUIDE, MOVING ANCHOR (at Mid Boom) (Lower)	1
77	235 2010		GUIDE, MOVING ANCHOR (at Mid Boom) (Upper)	1
78	07-003048		CAP SCREW, HEX HEAD (3/8"-16 x 1-3/4", Grade 5)	2
	07-003049		CAP SCREW, HEX HEAD (3/8"-16 x 2", Grade 5)	2
	07-062016		WASHER, FLAT (3/8")	8
	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4

TITLE

BOOM ASSEMBLY, RP 86

SECTION

B03.

PLATE NO.

204

PAGE

04

REV.

A

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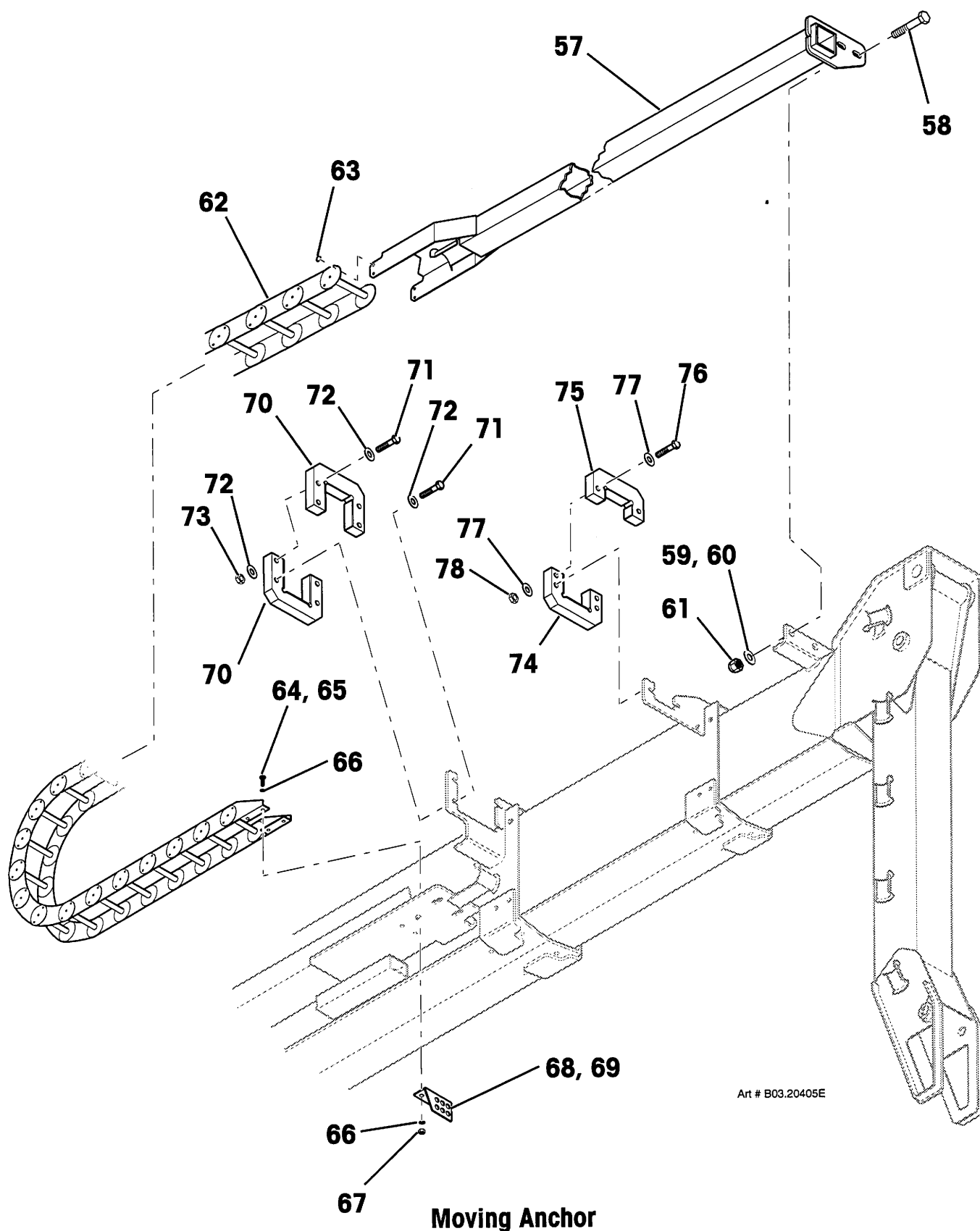
29 MAY, 1996

PART NO.

354 2650



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Art # B03.20405E



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TITLE

BOOM ASSEMBLY, RP 86

PART
NO.

354 2650

REV. A

DATED
29 MAY, 1996

SECTION

B03.

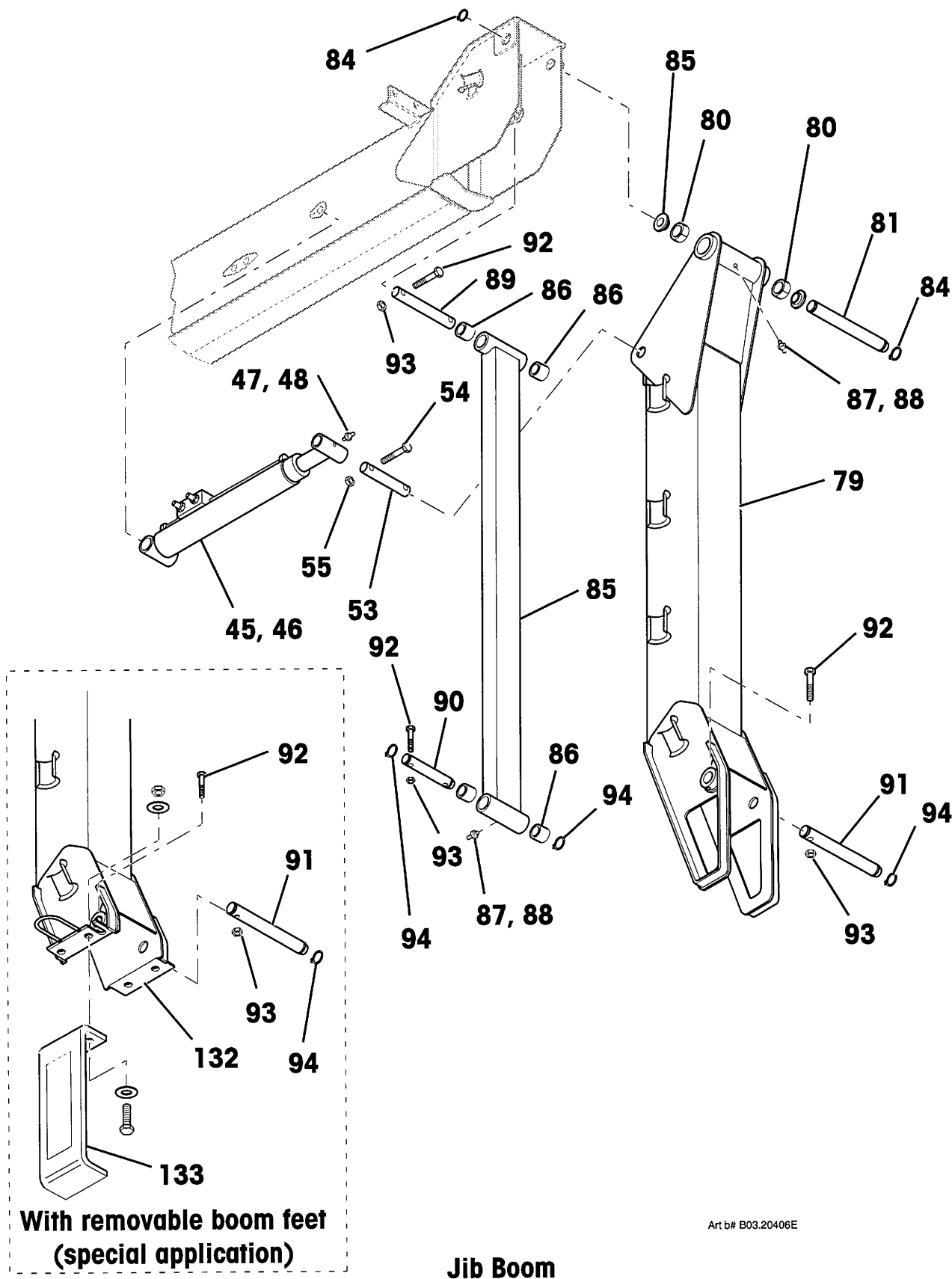
PLATE NO.

204

PAGE

04

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Art b# B03.20406E



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BOOM ASSEMBLY, RP 86

PART
NO.

354 2650

REV.
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DATED
29 MAY, 1996

SECTION

B03.

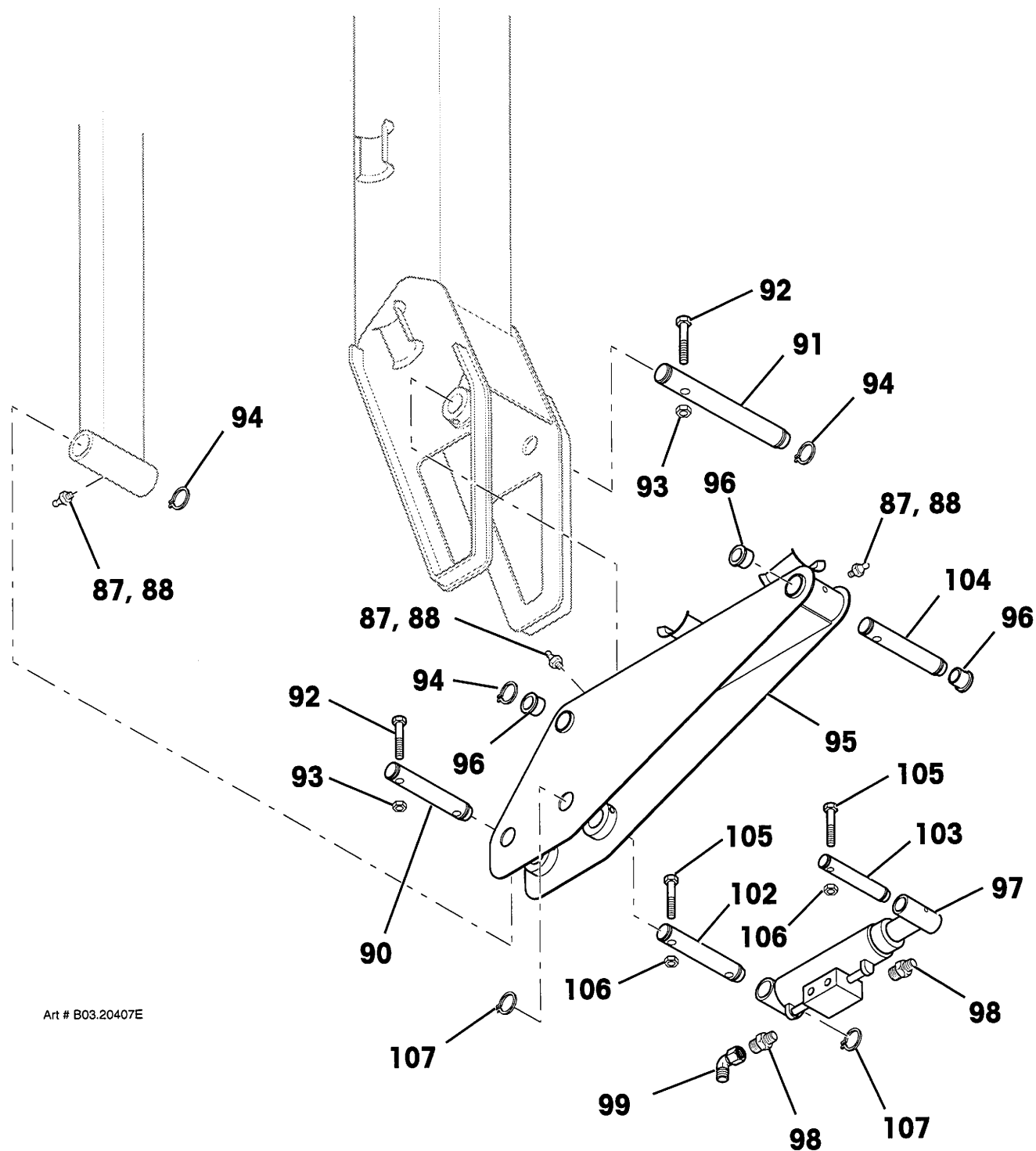
PLATE NO.

204

PAGE

05

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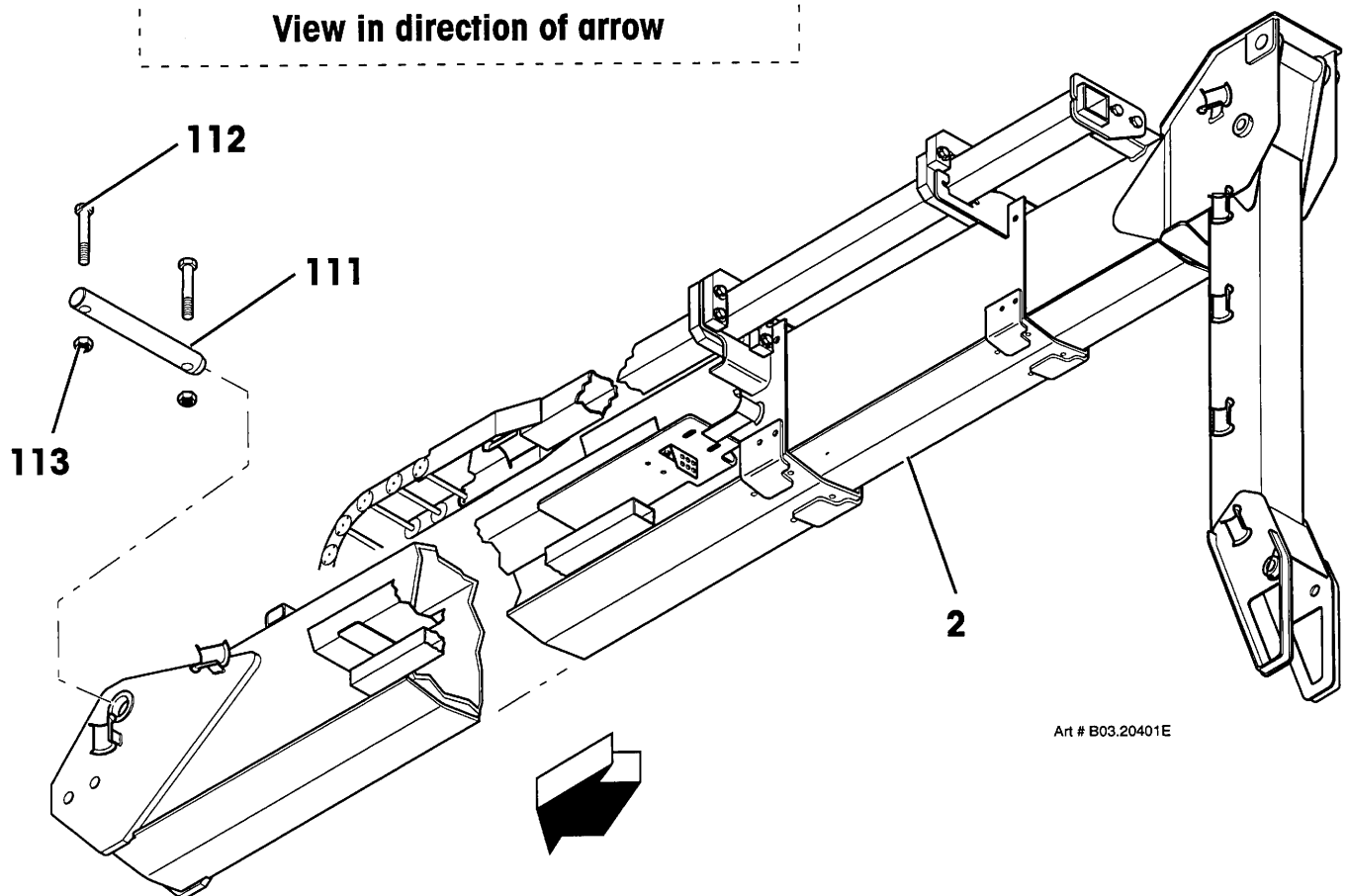
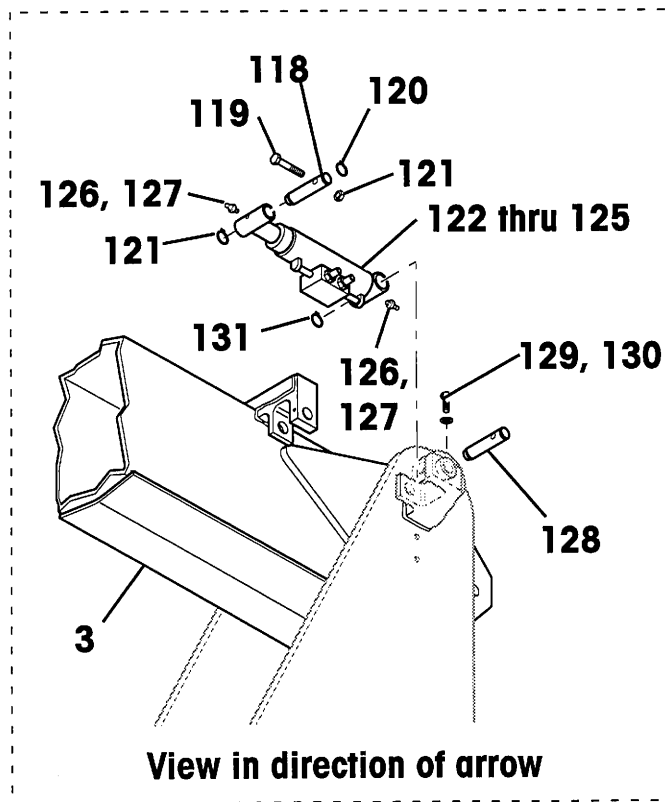
Lower Leveling Arm

 Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE BOOM ASSEMBLY, RP 86				
	PART NO. 354 2650	REV. A	DATED 29 MAY, 1996	SECTION B03.	PLATE NO. 204 PAGE 06

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items <u>are not</u> part of the Boom <u>Assembly</u>. They <u>are</u> included with the Boom <u>Group</u>:	
111	234 9940		PIN, BOOM PIVOT (2.50" x 19.50")	1
112	07-090144		CAP SCREW, HEX HEAD (1/2"-13 x 6", Grade 5)	2
113	07-058400		NUT, LOCK (1/2"-13, Grade 8)	2
114	235 2050		PIN, LIFT CYLINDER (Rod end) (2.50" x 13.00")	1
115	07-003097		CAP SCREW, HEX HEAD (1/2"-13 x 4", Grade 5)	2
116	07-058400		NUT, LOCK (1/2"-13, Grade 8)	2
117	08-043000		RING, RETAINING (2.50")	2
118	219 0580		PIN, MASTER CYLINDER (Rod end) (1.25" x 5..56")	1
119	07-003055		CAP SCREW, HEX HEAD (3/8"-16 x 3-1/2", Grade 5)	1
120	07-050016		NUT, LOCK (3/8"-16, Grade 5)	1
121	08-040700		RING, RETAINING (1.25")	2
			The following items <u>are not</u> part of the Boom <u>Group</u>:	
122	See Plate . . .	D10.101	CYLINDER, MASTER LEVEL	1
123	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C50X-S)	2
124	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	1
125	06-052800		45° ELBOW, SWIVEL NUT (4 V6X-S)	1
126	08-051300		FITTING, GREASE (1/8", 90°)	2
127	08-066300		CAP, GREASE FITTING (White plastic)	2
128	215 1740		PIN, MASTER CYLINDER (Base end)	1
129	07-003053		CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5)	1
130	07-050016		NUT, LOCK (3/8"-16, Grade 5)	1
131	08-040700		RING, RETAINING (1.25")	2
			The following items are used for <u>special applications</u>:	
132	235 5550		JIB BOOM WELDMENT (With removable boom feet) (Includes two flanged bearings. See Item 80.)	1
133	235 5720		BRACKET, BOOM STANDOFF (Removable Boom Foot) (special application)	2
TITLE			BOOM ASSEMBLY, RP 86	
SECTION	B03.	PLATE NO. 204	PAGE 07	REV. A DATED 29 MAY, 1996 PART NO. 354 2650



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Art # B03.20401E



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BOOM ASSEMBLY, RP 86

PART NO.

354 2650

REV. A

DATED
29 MAY, 1996

SECTION

B03.

PLATE NO.

204

PAGE

07

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2690		PLATFORM GROUP (36" x 60" [.91 M x 1.52 M]) Standard , with mesh screen on lower half	1
2			PLATFORM ASSEMBLY (36" x 60" [.91 M x 1.52 M]) Standard , with mesh screen on lower half	1
3	354 2680		PLATFORM WELDMENT (36" x 60" [.91 M x 1.52 M]) Standard , with mesh screen on lower half	1
	234 9660		Optional , with full height mesh screen	
	236 0520		Optional , for use with "self-closing" gate	
	236 0530		Optional , with "Pinch Guard" outer top rail. See illustration.	
4	02-042700	D24.201	ACTUATOR, PLATFORM ROTARY	1
5	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	2
6	07-004085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 8)	6
7	07-061018		WASHER, FLAT (1/2", SAE, hardened)	6
8	07-111300		CAP SCREW, HEX HEAD (1"-8 x 11", Grade 8)	1
9	07-060024		WASHER, FLAT (1", SAE)	2
10	07-090011		NUT, LOCK (1"-8, Grade 8)	1
11	01-202000		VALVE, CROSSOVER RELIEF (1200 psi)	1
12	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	2
13	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	2
14	350 7654		TUBE ASSEMBLY, FLOW DIVIDER (3/8")	2
15	07-003053		CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5)	2
16	07-065016		WASHER, HELICAL LOCK (3/8")	2
17	See Plate . .	C08. - -	PLATFORM CONTROL CONSOLE ASSEMBLY	1
18	235 7060		SUPPORT, PLATFORM CONTROL BOX (some earlier versions)	2
19	07-008039		CAP SCREW, SOCKET HEAD (5/16"-18 x 3", Grade 8)	4
20	07-062015		WASHER, FLAT (5/16")	4
21	07-050015		NUT, LOCK (5/16"-18, Grade 5)	4
22	03-021300		SWITCH ASSEMBLY, FOOT (Single pole)	1
23	03-021301		SWITCH (Single pole, double throw)	1
24	03-021302		COVER, SWITCH (Guard type, with latch)	1
25	03-045000		REDUCER (3/4" to 1/2")	1
26	03-063300		GRIP, CORD (90°, 1/2", with .31" to .38" seal)	1
27	03-085700		CABLE, ELECTRICAL (SJO, 4 conductor, #16 AWG) (Bulk item, 6 ft [1.8 m] required this application)	A.R.
28	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	2
29	07-062014		WASHER, FLAT (1/4")	4
30	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
31			RECEPTACLE, ELECTRICAL CONVENIENCE Standard , Duplex, 20 Amp, 110 Volt AC, Self-grounding	1
	03-067000		Optional , Single, 20 Amp, 220 Volt AC	
32	03-711300		BOX, ELECTRICAL RECEPTACLE (Weatherproof)	1
	03-062100			

TITLE

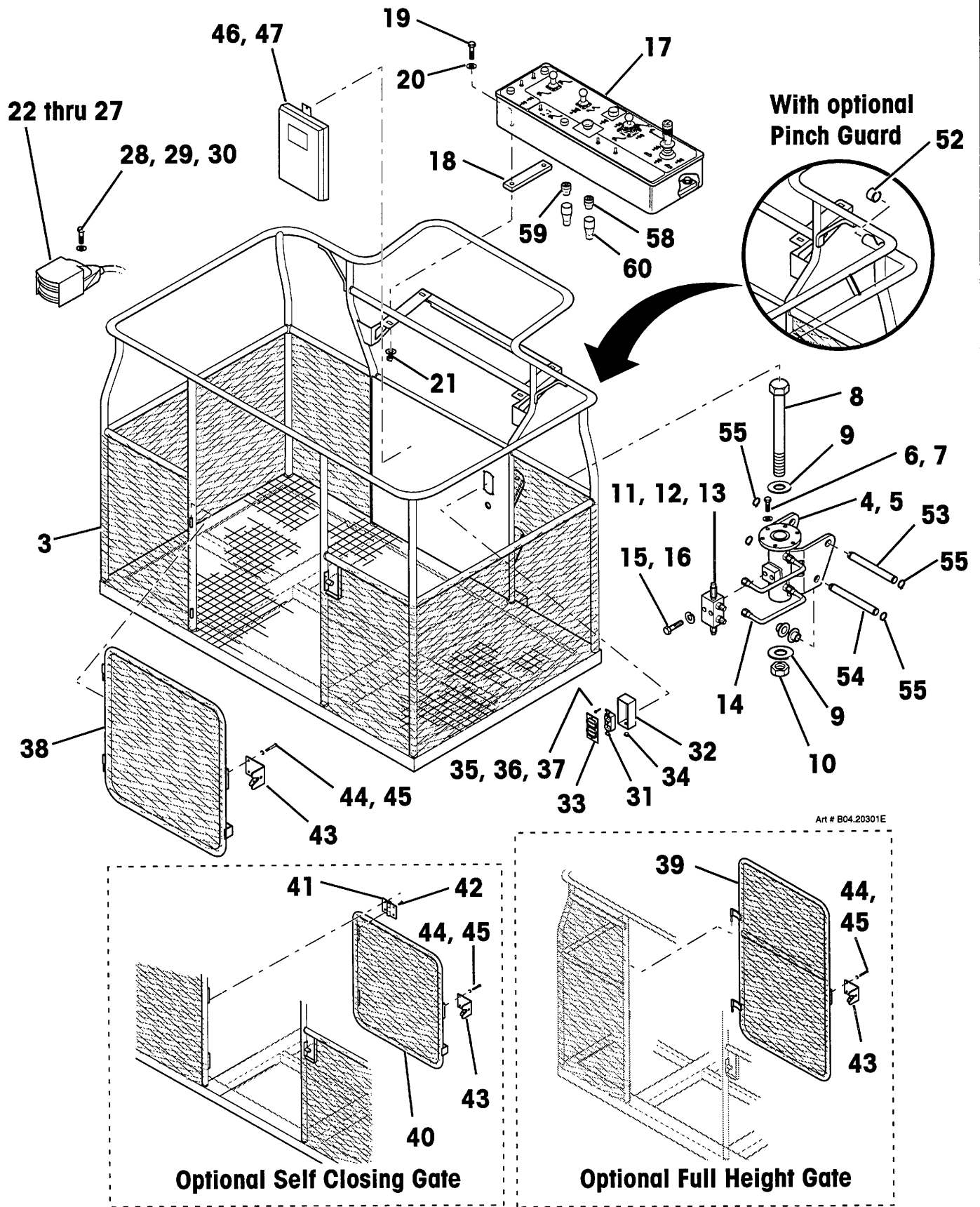
PLATFORM ASSEMBLY, RP 86

SECTION **B04.** | PLATE NO. **203** | PAGE **01**

REV. **A** | DATED 24 JUN., 1996 | PART NO.



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PLATFORM ASSEMBLY, RP 86

PART NO.

REV. A

DATED 24 JUN., 1996

SECTION

B04.

PLATE NO.

203

PAGE

01

PARTS LIST

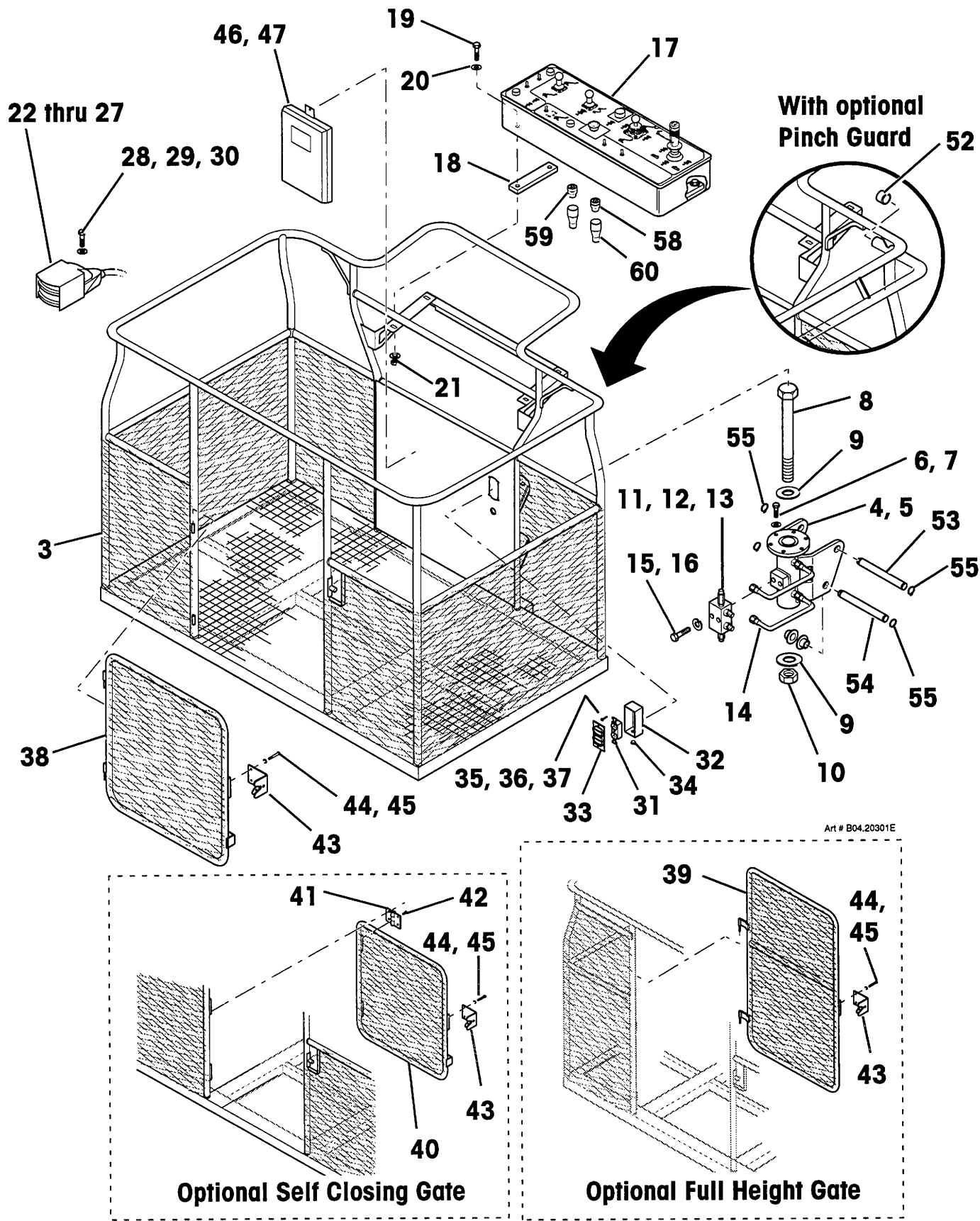
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
33	03-062200		PLATFORM ASSEMBLY (Continued) COVER, ELECTRICAL RECEPTACLE (Weatherproof) For standard 110 Volt Duplex outlet	1
34	03-711400		For single 220 Volt outlet (option)	
35	03-041000		GRIP, CORD (1/2", with .38" to .44" seal)	1
	07-090156		CAP SCREW, BUTTON HEAD SOCKET (1/4"-20 x 5/8", Stainless steel)	2
36	07-062014		WASHER, FLAT (1/4")	4
37	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
			DOOR, PLATFORM ENTRY	1
38	234 8930		Standard , half platform height, with mesh screen	
39	236 0540		Optional , full platform height, with mesh screen	
40	236 0550		Optional "self-closing" gate (German Spec)	
41	11-083900		HINGE, SELF CLOSING	2
42			ATTACHING PARTS, SELF-CLOSING GATE HINGE	
	07-003005		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	8
	07-065014		WASHER, HELICAL LOCK (1/4")	8
	07-062014		WASHER, FLAT (1/4")	8
43	235 4000		LATCH, PLATFORM ENTRY DOOR	1
44	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	2
45	07-065014		WASHER, HELICAL LOCK (1/4")	2
46	11-085200		BOX, TECHNICAL MANUAL STORAGE	1
47	07-029365		SCREW, HEX WASHER HEAD (#12 x 1", Self drilling, with rubber seal)	2
48			DECAL, "DANGER" (Hazard listing at Platform controls)	1
	10-142100		English language	
	10-142102		"DANGER" ("Les dangers ci-dessous . . .") (French)	
	10-142103		"WARNUNG" ("Die vorschriften . . .") (German)	
49			DECAL, "ENSURE LOCKPIN IS DISENGAGED . . ."	1
	10-007200		English language	
	10-007202		"DÉGAGER LA GOUPILLE . . ." (French)	
	10-007203		"SICHERUNGSSSTIFT LÖSEN . . ." (German)	
50			DECAL, "MANUALS ENCLOSED . . ."	1
	10-139800		English language	
	10-139802		French language	
	10-139803		German language	

TITLE

PLATFORM ASSEMBLY, RP 86

SECTION **B04.** PLATE NO. **203** PAGE **02** REV. **A** DATED 24 JUN., 1996 PART NO.


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PLATFORM ASSEMBLY, RP 86

PART
NO.

REV. A

DATED
24 JUN., 1996

SECTION

B04.

PLATE NO.

203

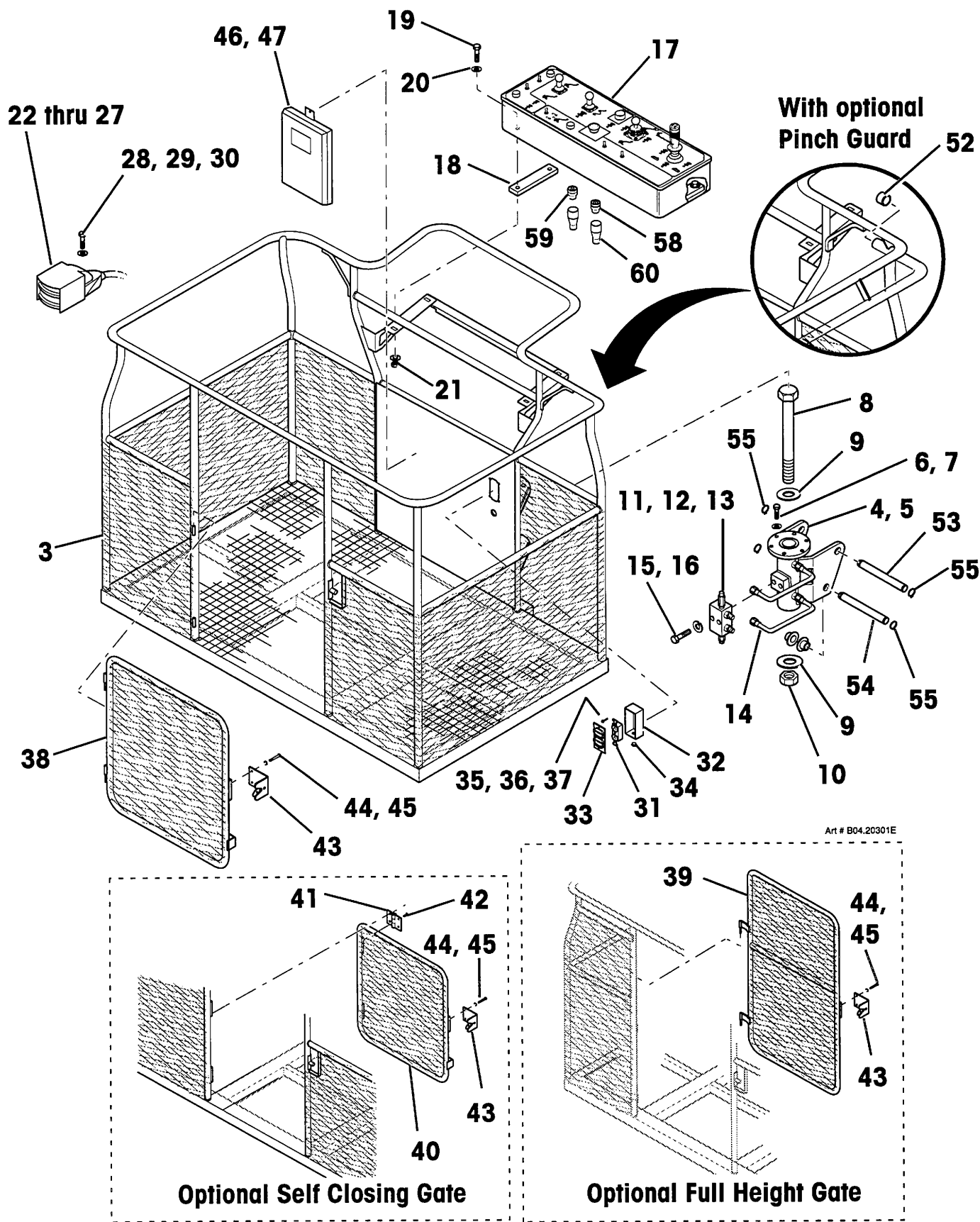
PAGE

02

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
51			PLATFORM ASSEMBLY (Continued) DECAL, "PLATFORM CAPACITY . . . 550 LBS (250 KG) . . ." (standard versions)	3
	10-149000 10-149002 10-149003		English language French language German language	
	10-148300 10-148302		500 LBS (225 KG) . . ." (with some options) English language French language	
52	10-148303 11-203300		German language CAPLUG (1-1/4" I.D.) (with "Pinch Guard" option)	2
			The following items are <u>not</u> included in the Platform <u>Assembly</u>, but <u>are</u> part of the Platform <u>Group</u>:	
53	232 2070		PIN, PLATFORM PIVOT (1.25" x 10.06")	1
54	232 2070		PIN, SLAVE CYLINDER (1.25" x 10.06") (Rod end)	1
55	08-040700		RING, RETAINING (1-1/4")	4
56	07-003052		CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5)	2
57	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	2
58	03-731500		PLUG, ELECTRICAL (9 pin, for right hand control console receptacle)	1
59	03-732100		PLUG, ELECTRICAL (9 pin, for left hand control console receptacle)	1
60	03-739300		BOOT, ELECTRICAL PLUG	2
61	03-734800		TERMINAL, ELECTRICAL (Brass, female, #18 to #24 Ga.)	12
62	10-150900		SLEEVE, COIL (Plastic) (Bulk item, 10 ft [3.05 m] required here)	A.R.
63	205 4670		CLAMP, HOSE (2 hole, #4)	1
64	07-031021		WELD STUD (1/4"-20 x 2")	1
65	07-050014		NUT, LOCK (1/4"-20, Grade 5)	1
66	07-062014		WASHER, FLAT (1/4")	1
			The following are typically used on platform assemblies:	
67	03-066400		TIE, CABLE (20" [508 mm] long)	A.R.
68	03-064700		TIE, CABLE (14-1/2" [368 mm] long)	A.R.
69	03-064000		TIE, CABLE (7.4" [188 mm] long)	A.R.
70	03-064100		MOUNT, CABLE TIE (Adhesive backed)	A.R.
TITLE			PLATFORM ASSEMBLY, RP 86	
SECTION	B04.	PLATE NO. 203	PAGE 03	REV. A
			DATED 24 JUN., 1996	PART NO.



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TITLE

PLATFORM ASSEMBLY, RP 86

PART NO.

REV. A

DATED 24 JUN., 1996

SECTION

B04.

PLATE NO.

203

PAGE

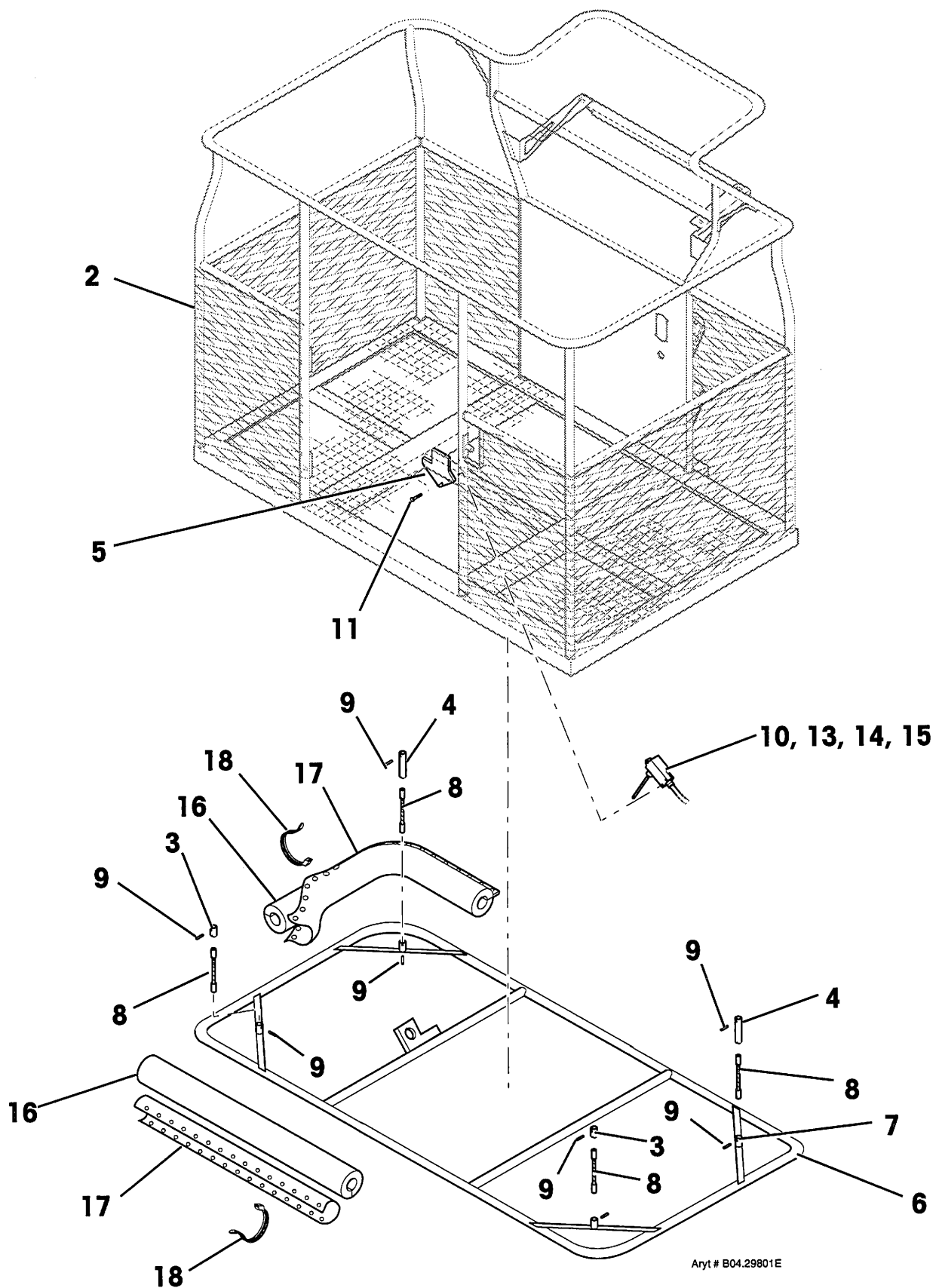
03

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	235 5480		SENSOR RING PACKAGE for 36" x 60" (.91 M x 1.52 M) Standard Platform	1
2			PLATFORM (modified)	1
3	235 5470		COLLAR, SENSOR RING (3.50" [89 mm] long) (Welded to platform, at entry end)	2
4	217 3950		COLLAR, SENSOR RING (1.50" [38 mm] long) (Welded to platform, at control end)	2
5	235 5450		BRACKET, LIMIT SWITCH MOUNTING (Welded to platform)	1
6			SENSOR RING	1
7	235 5440		for 36" x 60" (.91 M x 1.52 M) Platform	4
8	217 3950		COLLAR, SENSOR RING (1.50" [38 mm] long)	4
9	235 5460		WIRE ROPE ASSEMBLY (5.50" [140 mm] long)	4
10	07-023600		SET SCREW, SOCKET HEAD (1/4"-20 x 1/2", Grade 5)	8
11	03-428300		SWITCH, LIMIT	1
12	07-011355		MACHINE SCREW, ROUND HEAD (#10-24 x 3/4")	3
13	03-730600		SWITCH, PUSH BUTTON (Green) (Sensor ring override)	1
14	03-085200		CABLE, ELECTRICAL (SJO, 2 conductor, #16 AWG) (Bulk item, order as needed. 7 Ft. [2.1 M] needed here)	A.R.
15	03-045500		GRIP, CORD (1/2")	2
16	03-055500		NUT, CONDUIT LOCK (1/2")	1
17	10-063300		TUBING, SPONGE INSULATION (7/8" I.D., 1" wall) (6 Ft. [1.8 M] section) (4) needed for 36" x 72" platform	A.R.
18	Call Simon		COVER, SENSOR RING (Black, vinyl coated nylon) for 36" x 60" Platform	2
19	03-064000		TIE, CABLE (7.4" [188 mm] long)	208

TITLE				
PLATFORM SENSOR RING (OPTION), RP 86 AND T-80				
SECTION	B04.	PLATE NO.	297	PAGE 01
REV.	A	DATED	12 JUN., 1996	PART NO. 235 5480


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TITLE

PLATFORM SENSOR RING (OPTION), RP 86 AND T-80

PART NO. 235 5480

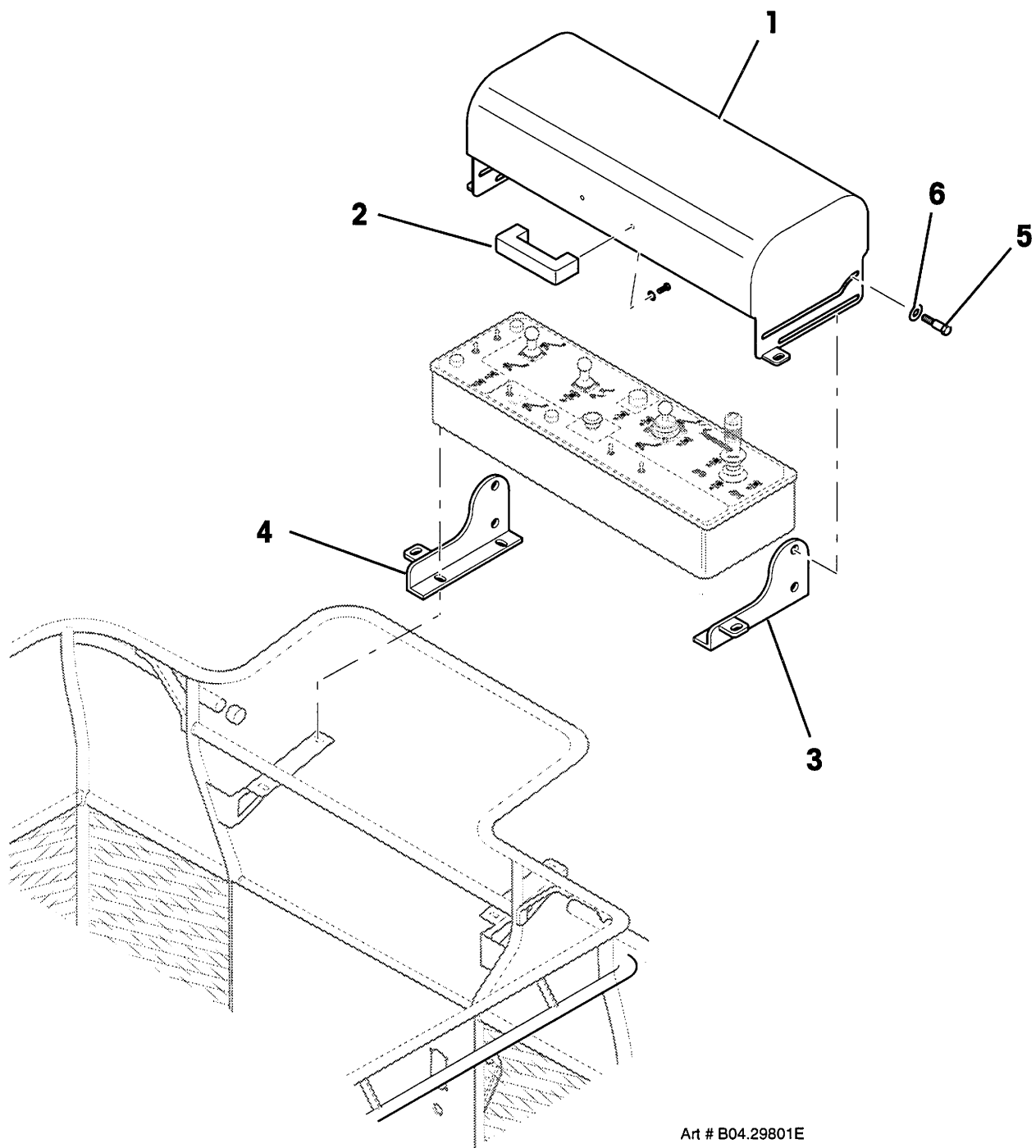
REV. A DATED 12 JUN., 1996

SECTION B04.

PLATE NO. 297

PAGE 01

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Art # B04.29801E



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TITLE

PLATFORM CONSOLE COVER (OPTION), RP 86 AND T-80

PART
NO.

REV.
A

DATED
12 JUN., 1996

SECTION

B04.

PLATE NO.

298

PAGE

01

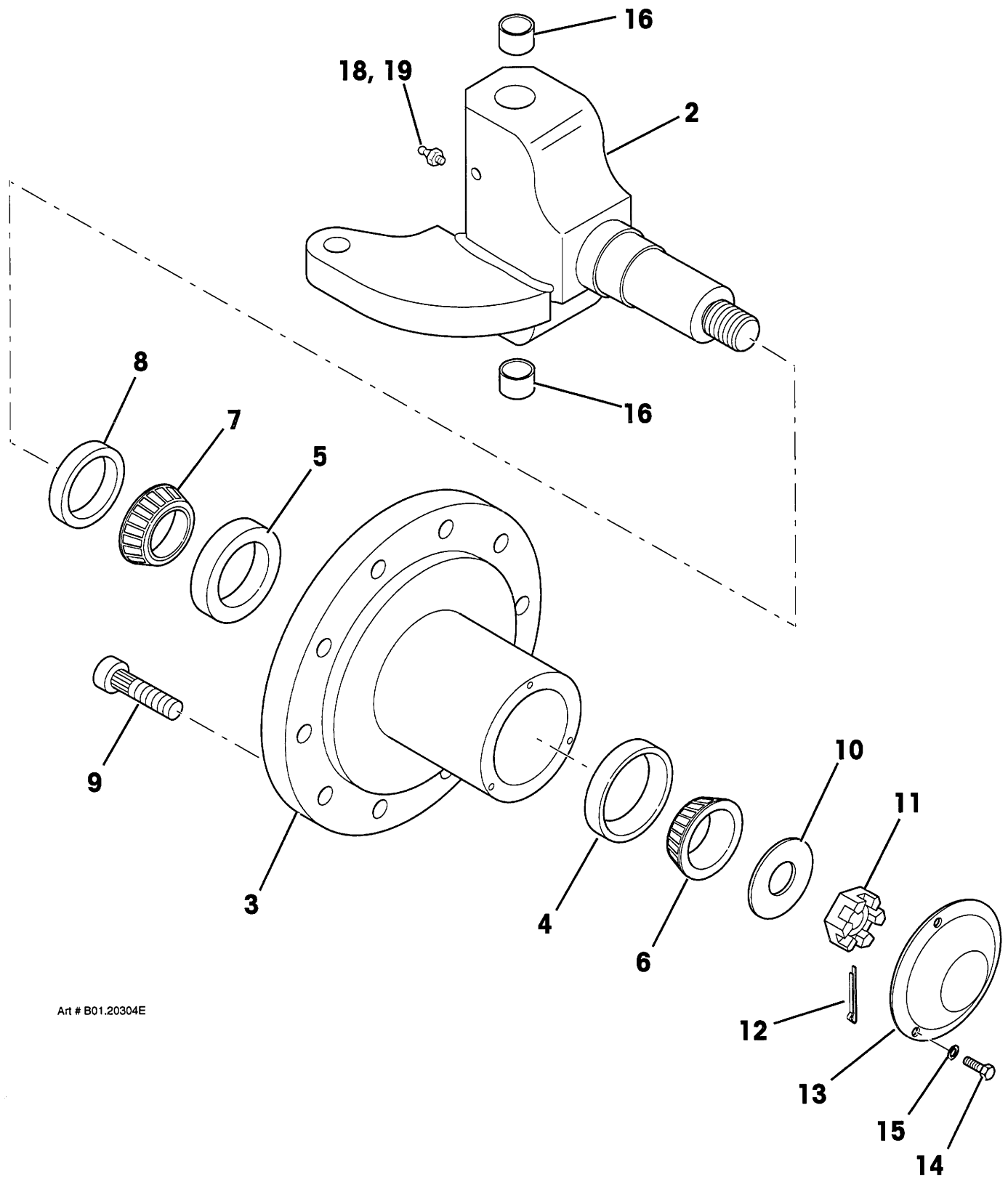
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2880		SPINDLE ASSEMBLY (RP 86 and T-80, Right hand)	1
	354 2890		SPINDLE ASSEMBLY (RP 86 and T-80, Left hand)	1
2	235 2590		SPINDLE (Right)	1
	235 2580		SPINDLE (Left)	1
3	219 7900		HUB, SPINDLE	1
4	08-003400		CUP, BEARING (Outer) (4.437" [113 mm] O.D.)	1
5	08-070500		CUP, BEARING (Inner) (5.000" [127 mm] O.D.)	1
6	08-003500		CONE AND ROLLER, BEARING (Outer) (2.750" [70 mm] I.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" O.D.)	1
9	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
10	07-062027		WASHER, FLAT (1-3/4")	1
11	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
12	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
13	202 1131		PLATE, SPINDLE END COVER	1
14	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
15	07-065014		WASHER, HELICAL LOCK (1/4")	3
16	08-014000		BEARING, SLEEVE (1-1/2" [38 mm] I.D., 1-3/4" [44.5 mm] O.D., 1-1/2" [38 mm] long)	2
17	10-164100		SEAL, SPINDLE PIN OIL (Not shown. With option. Spindle must be counterbored.) (1-1/2" [38 mm] I.D., 2" [51 mm] O.D.)	2
18	08-051300		FITTING, GREASE (1/8", 90°)	1
19	08-066300		CAP, GREASE FITTING (White plastic)	1

TITLE FRONT STEER SPINDLE ASSEMBLY (TWO WHEEL DRIVE)

SECTION C01. PLATE NO. 201 PAGE 01 REV. A DATED 12 JUN., 1996 PART NO.

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Art # B01.20304E



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TITLE

FRONT STEER SPINDLE ASSEMBLY (TWO WHEEL DRIVE)

PART
NO.

REV. A

DATED
12 JUN., 1996

SECTION

C01.

PLATE NO.

201

PAGE

01

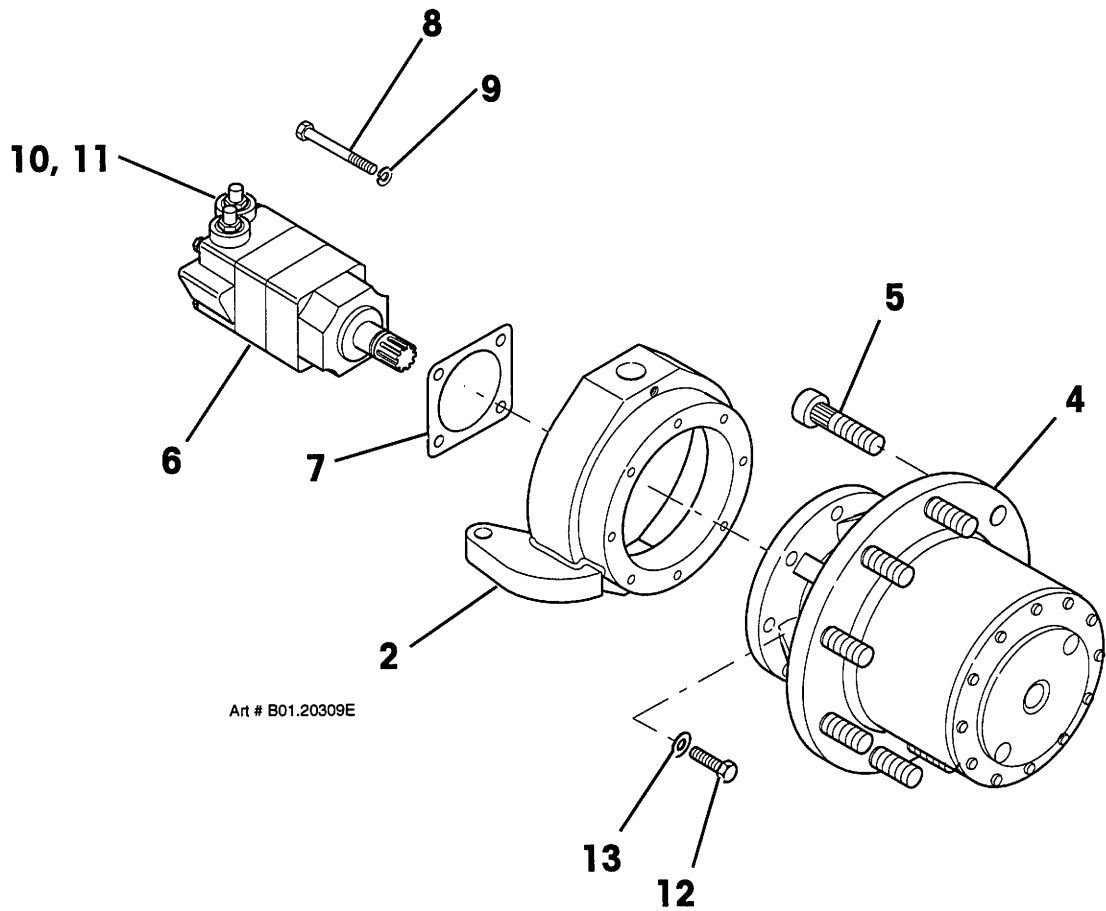
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 3070		STEER SPINDLE ASSEMBLY (RP 86 and T-80 Front, with Four Wheel Drive, but without Four Wheel Steering) Right Hand	1
	354 3080		Left Hand	1
2	235 6560		SPINDLE WELDMENT Front Axle, Right Hand (shown)	1
	235 6570		Front Axle, Left Hand	
3	354 6700		DRIVE HUB ASSEMBLY (Front) Current version (Torque hub has integral brake)	2
4	02-049700		(Earlier version, with no brake, is not serviced as an assembly) TORQUE HUB ASSEMBLY ("Power Wheel", 25.71:1 Ratio) Current version, with integral brake (nameplate is marked "8W2C5-14-25-9B5RX")	1
5	02-048900		Earlier version, without brake ("8W2C5-14-25-9R")	
	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
6	01-238200		DRIVE MOTOR ASSEMBLY (Earlier versions are marked "109-1114". Later versions marked "109-1154-006")	1
7	02-049001		GASKET	1
8	07-003092		CAP SCREW, HEX HEAD (1/2"-13 x 2-3/4", Grade 5) (For version with integral brake. Earlier version w/o brake used 2" long, Grade 8 screw, #07-003089)	4
9	07-065018		WASHER, HELICAL LOCK (1/2") (Version with brake. Earlier version w/o brake used flat washer 07-061018)	4
10	06-046800		45° ELBOW, "O"-RING TO 37° (4 V50X-S) (Later versions. Earlier versions used ADAPTER 06-039300 [4 F50X-S].)	2
11	06-047400		45° ELBOW, "O"-RING TO 37° (12 V50X-S) (Later version) (Earlier versions used one each of . . .	2
			06-045400, 90° ELBOW [12 C50X-S] 06-040800, ADAPTER [12 F50X-S] 06-051800, SWIVEL NUT 90° ELBOW [12 C6X-S])	
12	07-004128		CAP SCREW, HEX HEAD (5/8"-11 x 1-3/4", Grade 8)	8
13	07-061021		WASHER, FLAT (5/8", SAE, hardened)	8

TITLE FRONT STEER SPINDLE ASSEMBLY (FOUR WHEEL DRIVE)

SECTION C01. PLATE NO. 202 PAGE 01 REV. A DATED 12 JUN., 1996 PART NO.

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TITLE

FRONT STEER SPINDLE ASSEMBLY (FOUR WHEEL DRIVE)

PART
NO.

REV. -

DATED
12 JUN., 1996

SECTION

C01.

PLATE NO.

202

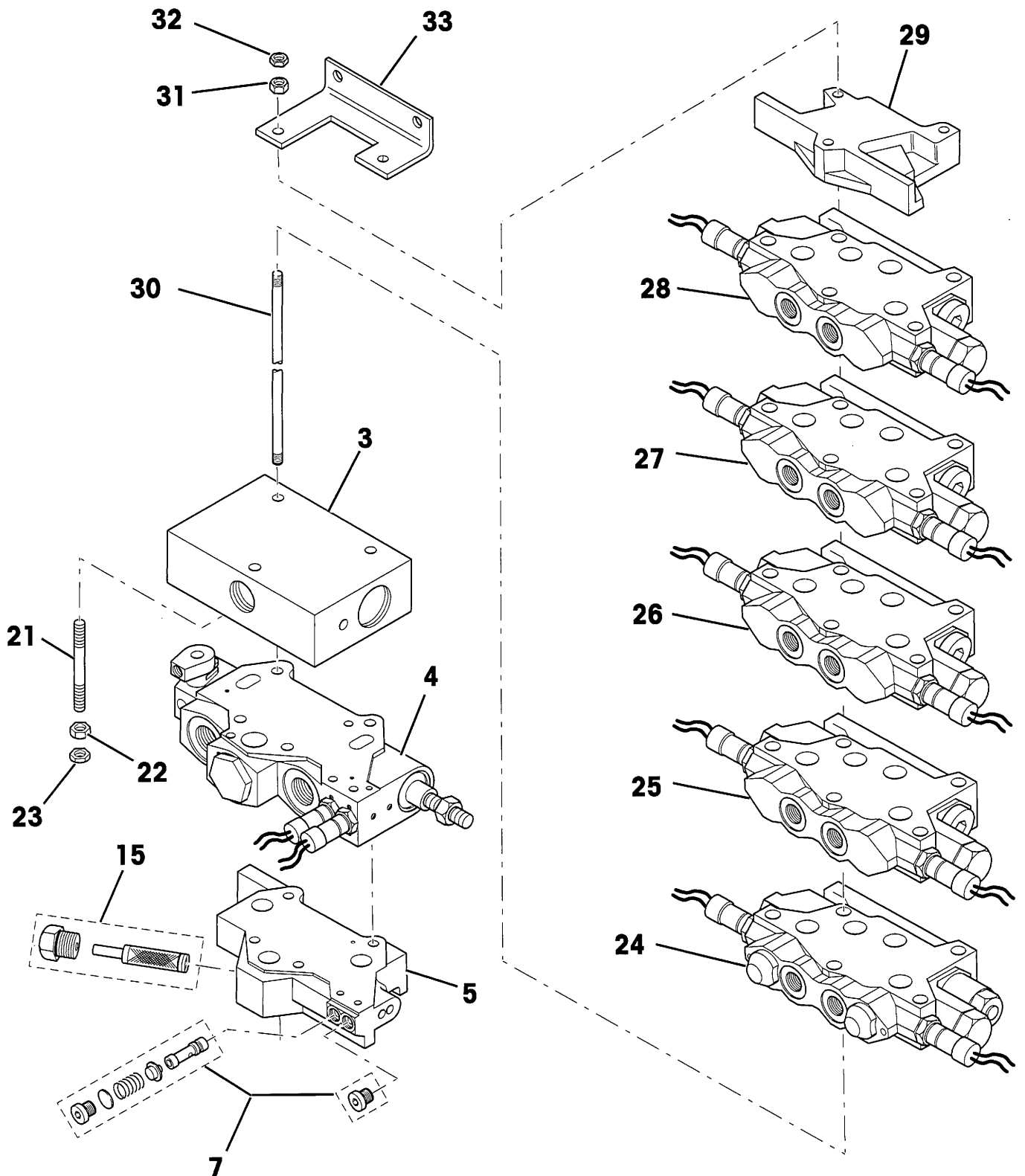
PAGE

01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 4820		GROUND VALVE BANK ASSEMBLY	1
2	01-238900		GROUND VALVE BANK (Earlier version, for machines S/N AXA 00147, AXA 00148 and AUA 00155 only)	
			(nameplate is stamped "VAC 5710-0004-004")	1
3			MANIFOLD, ADAPTER	1
4			VALVE SEGMENT, DRIVE CONTROL	1
5			INLET, LOAD SENSING	1
6	Call Simon		SEAL KIT, INLET (includes all items with asterisk*)	1
7	Call Simon		PILOT REDUCING KIT	1
8			SPOOL, PILOT REDUCING	1
9			BALL	1
10			GUIDE, SPRING	1
11			SPRING	1
12			SHIM	1
13			PLUG, SOCKET	2
14		*	"O"-RING	2
15	Call Simon		INLET FILTER KIT	1
16			FILTER	1
17		*	"O"-RING	1
18			TUBE, FILTER EXTENSION	1
19			PLUG, SOCKET	1
20		*	"O"-RING	1
21			ROD, TIE	4
22			NUT, HEX	4
23			NUT, HEX JAM	4
24			VALVE SEGMENT, STEER CONTROL	1
25			VALVE SEGMENT, JIB BOOM RAISE/ LOWER	1
26			VALVE SEGMENT, BOOM TELESCOPE	1
27			VALVE SEGMENT, MAIN BOOM RAISE/ LOWER	1
28			VALVE SEGMENT, SWING CONTROL	1
29			PLATE, STACKING	1
30			ROD, TIE	3
31			NUT, HEX	3
32			NUT, HEX JAM	3
33			BRACKET, VALVE BANK MOUNTING	1
			The following items are not included with the Ground Valve Bank . They are included with the Ground Valve Bank Assembly :	
			Port 1 (Swing Right), Port 2 (Swing Left): Port 7 (Jib Boom Retract), Port 8 (Jib Boom Extend):	
34	06-090500		REDUCER/ EXPANDER (8-4 F50 G5-S)	4
35	06-046800		45° ELBOW, "O"-RING TO 37° (4 V50X-S)	4
TITLE			HYDRAULIC VALVE MANIFOLD ASSEMBLY, RP 86	
SECTION	C02.	PLATE NO.	205	PAGE 01
REV.	-	DATED	17 APR., 1996	PART NO. 354 4820


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Art # C02.20501E


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TITLE

HYDRAULIC VALVE MANIFOLD ASSEMBLY, RP 86

PART NO.

354 4820

REV.

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DATED

17 APR., 1996

SECTION

C02.

PLATE NO.

205

PAGE

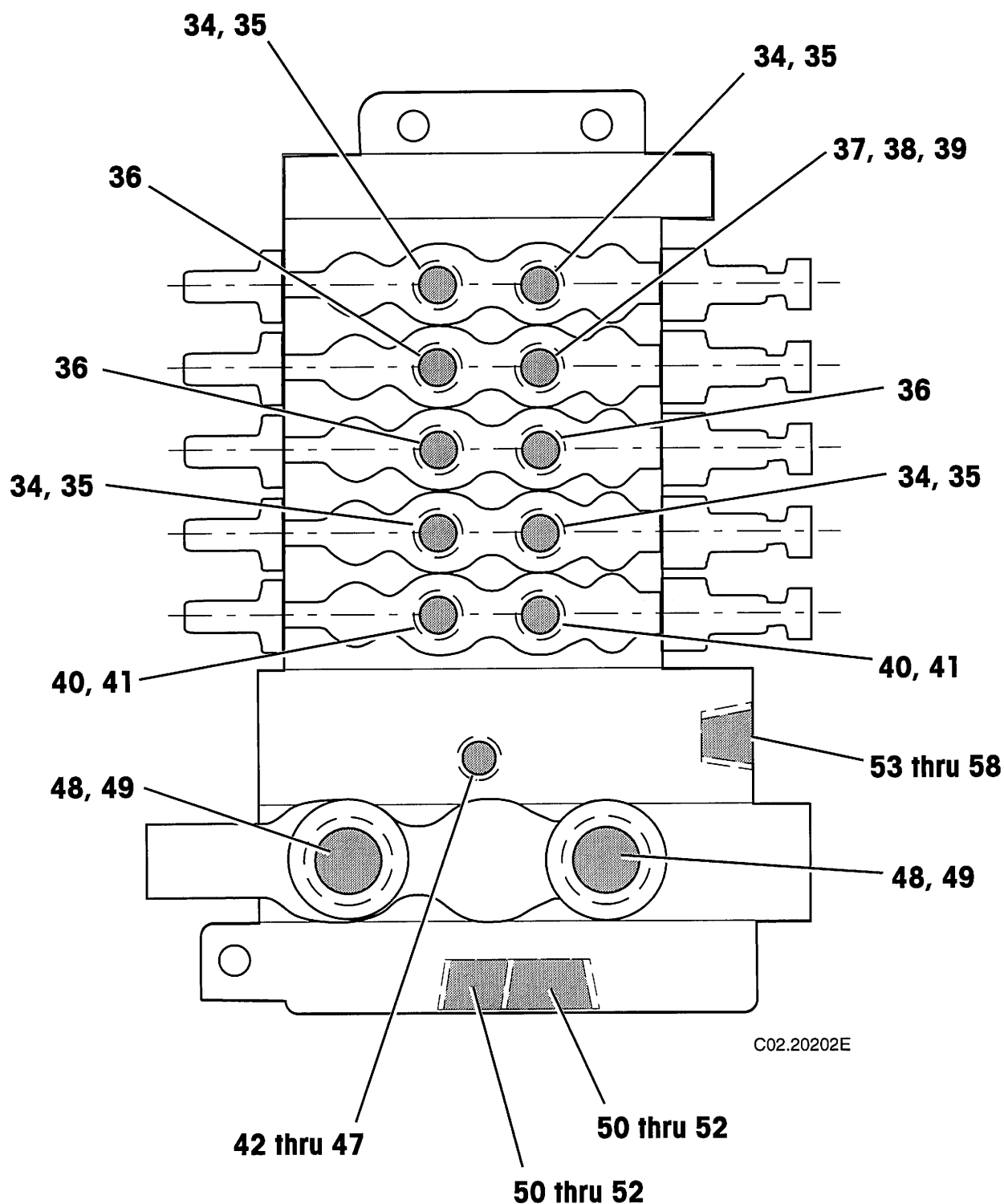
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PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
36	06-047100		Port 3 (Boom Down), Port 5 (Boom Extend), Port 6 (Boom Retract): 45° ELBOW, "O"-RING TO 37° (8 V50X-S)	3
37	06-044800		Port 4 (Boom Up): 90° ELBOW, "O"-RING TO 37° (8 C50X-S)	1
38	06-207800		ADAPTER, SWIVEL NUT (8 F650X-S)	1
39	01-019000		VALVE, FLOW CONTROL (Needle valve, #8 SAE ports)	1
40	06-090600		Port 9 (Steer Right), Port 10 (Steer Left): REDUCER/ EXPANDER (8-6 F50 G5-S)	2
41	06-047000		45° ELBOW, "O"-RING TO 37° (6 V50X-S)	2
42	06-039800		Port 11 (Pressure Port): ADAPTER, "O"-RING TO 37° (6 F50X-S)	1
43	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	3
44	06-056000		BRANCH TEE, 37° FEMALE SWIVEL NUT (6 S6X-S)	1
45	353 4140		TUBE ASSEMBLY	1
46	06-196600		CONNECTOR, FEMALE 37° TO NPT (6 GTX-S)	1
47	01-021000		GAUGE, HYDRAULIC PRESSURE (1/4" male NPT) (0-400 psi [0-28,000 kPa])	1
48	06-041500		Port 12 (Drive), Port 13 (Drive): ADAPTER, "O"-RING TO 37° (16-12 F50X-S)	2
49	06-052000		90° ELBOW, SWIVEL NUT (16 C6X-S)	2
50	06-215200		Port 14 (Return Port), Port 15 (Pressure Port): ADAPTER, SWIVEL NUT (16 F650X-S)	2
51	01-034100		VALVE, CHECK (3 psi [.207 bar])	2
52	06-052000		90° ELBOW, SWIVEL NUT (16 C6X-S)	2
53	06-091100		Port 16 (Tank Port): REDUCER/ EXPANDER (12-8 F50 G5-S)	1
54	06-048600		RUN TEE, MALE "O"-RING TO 37° (8 R50X-S)	1
55	06-051600		90° ELBOW, SWIVEL NUT (8 C6X-S)	1
56	06-060300		REDUCER, TUBE END (8-6 TRTX-S)	1
57	06-057600		NUT, TUBE (8 BTX-S)	1
58	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	1

TITLE					HYDRAULIC VALVE MANIFOLD ASSEMBLY, RP 86		
SECTION	C02.	PLATE NO.	205	PAGE	02	REV.	-
				DATED	17 APR., 1996	PART NO.	354 4820


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TITLE

HYDRAULIC VALVE MANIFOLD ASSEMBLY, RP 86

PART
NO.

354 4820

REV.
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DATED
17 APR., 1996

SECTION

C02.

PLATE NO.

205

PAGE

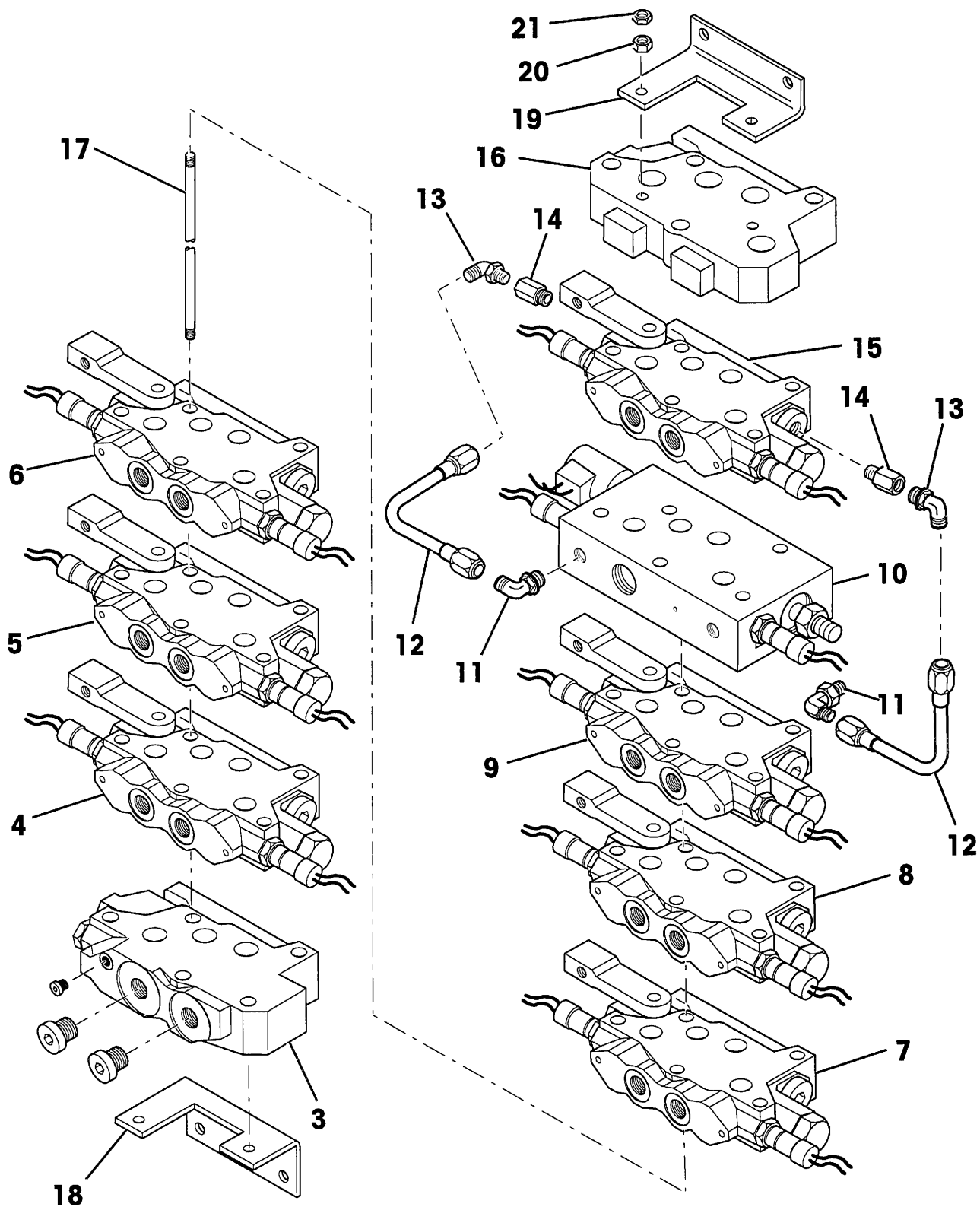
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PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 4821 354 4822		GROUND VALVE BANK ASSEMBLY Without load sensing With load sensing	1
2	01-240100		GROUND VALVE BANK (Later version) (nameplate is stamped "VAL 5814-0004-003")	1
3			PLATE, MANIFOLD INLET	1
4			VALVE SEGMENT, DRIVE CONTROL	1
5			VALVE SEGMENT, STEER CONTROL	1
6			VALVE SEGMENT, JIB BOOM RAISE/ LOWER	1
7			VALVE SEGMENT, BOOM TELESCOPE	1
8			VALVE SEGMENT, MAIN BOOM RAISE/ LOWER	1
9			VALVE SEGMENT, SWING CONTROL	1
10			VALVE SEGMENT, PLATFORM CONTROL	1
11			90° ELBOW, SWIVEL NUT	2
12			TUBE, HYDRAULIC	2
13			90° ELBOW, SWIVEL NUT	2
14			ADAPTER	2
15			VALVE SEGMENT, DRIVE CONTROL	1
16			PLATE, MANIFOLD OUTLET	1
17			ROD, TIE	4
18			BRACKET, VALVE BANK MOUNTING (lower)	1
19			BRACKET, VALVE BANK MOUNTING (upper)	1
20			NUT, HEX	4
21			NUT, HEX JAM	4

TITLE HYDRAULIC VALVE MANIFOLD ASSEMBLY, RP 86					
SECTION C02.	PLATE NO. 206	PAGE 01	REV. A	DATED 24 JUN., 1996	PART NO.


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Art # C02.20605E



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TITLE

HYDRAULIC VALVE MANIFOLD ASSEMBLY, RP 86

PART
NO.

REV. **A**

DATED
24 JUN., 1996

SECTION

C02.

PLATE NO.

206

PAGE

01

PARTS LIST

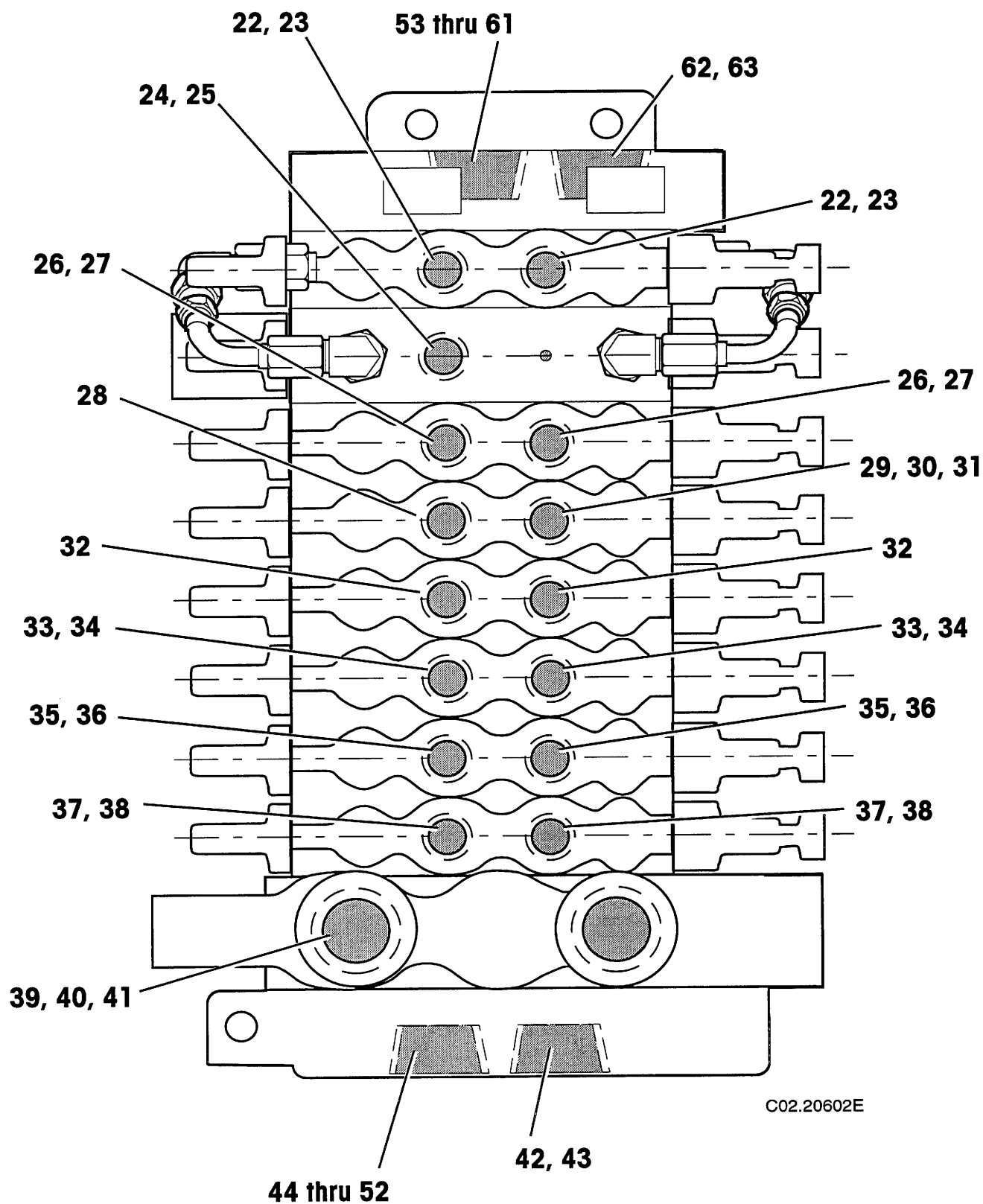
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items will be found in a <u>typical</u> application. They are not included with the Ground Valve Bank, but they are included with the Ground Valve Bank Assembly:	
22	06-040900		Valve Segment 8 (at top) (Drive Reverse, Forward): ADAPTER, "O"-RING TO 37° (12-8 F50X-S)	2
23	06-053300		45° ELBOW, SWIVEL NUT (12 V6X-S)	2
			Valve Segment 7 (Manifold Pressure to Platform):	
24	06-090600		REDUCER/ EXPANDER (8-6 F50 G5-S)	1
25	06-048500		RUN TEE, MALE "O"-RING TO 37° (6 R50X-S)	1
			Valve Segment 6 (Swing Right, Left):	
26	06-090500		REDUCER/ EXPANDER (8-4 F50 G5-S)	2
27	06-046800		45° ELBOW, "O"-RING TO 37° (4 V50X-S)	2
			Valve Segment 5 (Boom Down):	
28	06-047100		45° ELBOW, "O"-RING TO 37° (8 V50X-S)	1
			Valve Segment 5 (Boom Up):	
29	06-047100		45° ELBOW, "O"-RING TO 37° (8 V50X-S)	2
30	06-207800		ADAPTER, SWIVEL NUT (8 F650X-S)	1
31	01-019000		VALVE, FLOW CONTROL (Needle valve, #8 SAE ports)	1
			Valve Segment 4 (Boom Extend, Retract):	
32	06-047100		45° ELBOW, "O"-RING TO 37° (8 V50X-S)	2
			Valve Segment 3 (Jib Boom Retract, Extend):	
33	06-090500		REDUCER/ EXPANDER (8-4 F50 G5-S)	2
34	06-046800		45° ELBOW, "O"-RING TO 37° (4 V50X-S)	2
			Valve Segment 2 (Steer Right, Left):	
35	06-090600		REDUCER/ EXPANDER (8-6 F50 G5-S)	2
36	06-047000		45° ELBOW, "O"-RING TO 37° (6 V50X-S)	2
			Valve Segment 1 (at bottom) (Drive Reverse, Forward):	
37	06-040900		ADAPTER, "O"-RING TO 37° (12-8 F50X-S)	2
38	06-053300		45° ELBOW, SWIVEL NUT (12 V6X-S)	2

TITLE

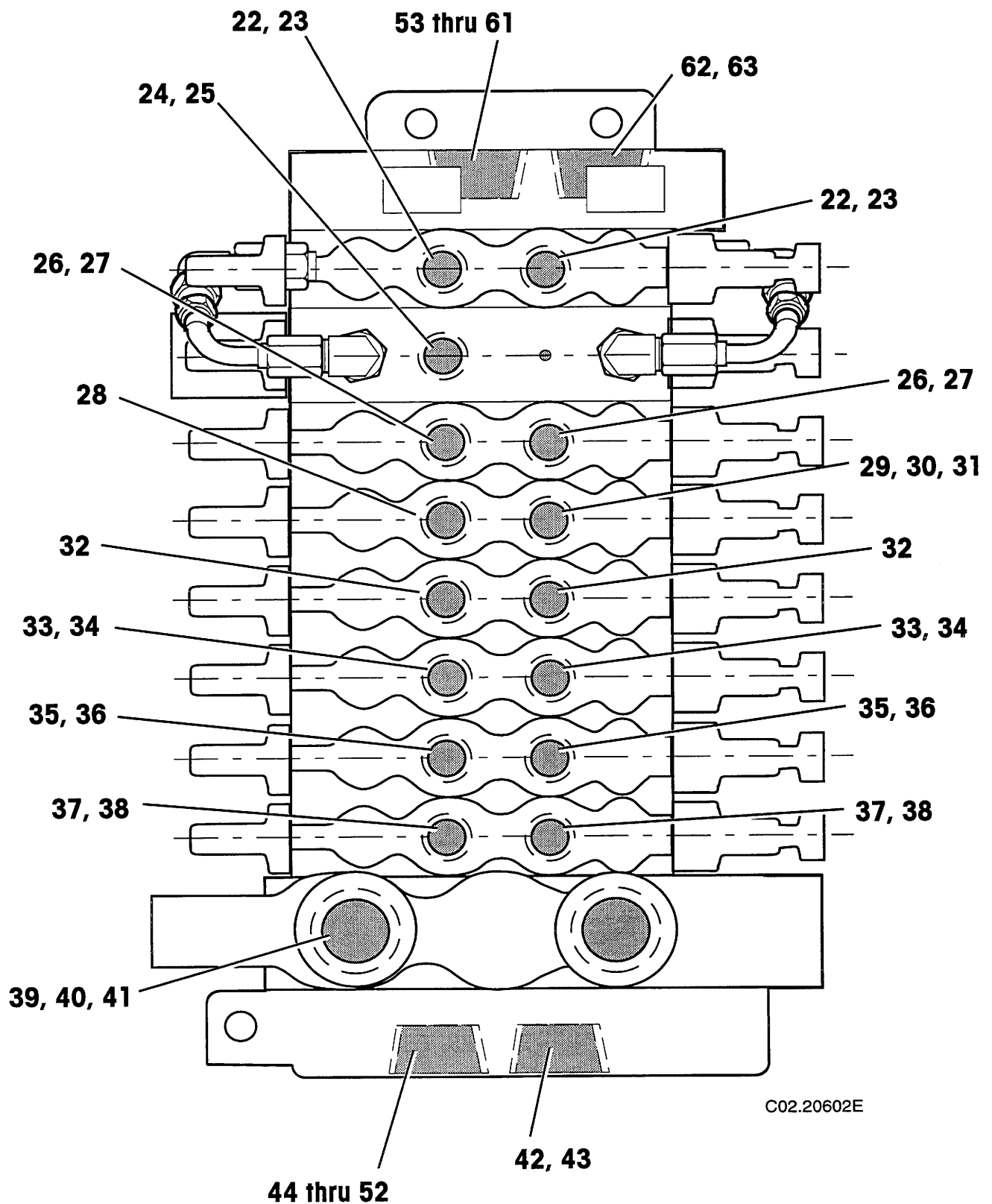
HYDRAULIC VALVE MANIFOLD ASSEMBLY, RP 86

SECTION **C02.** PLATE NO. **206** PAGE **02** REV. **A** DATED 24 JUN., 1996 PART NO.

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PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
39			Inlet Valve Port (Left):	
40			REDUCER	1
41			CONNECTOR	1
41			45° ELBOW, SWIVEL NUT	1
			Port "P" (on underside) (Return Port):	
42	06-040800		ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
43	06-053300		45° ELBOW, SWIVEL NUT (12 V6X-S)	1
			Port "I" (on underside) (Supply Port):	
44	06-048800		RUN TEE, MALE "O"-RING TO 37° (12 R50X-S)	1
45	06-053300		45° ELBOW, SWIVEL NUT (12 V6X-S)	1
46	06-060900		REDUCER, TUBE END (12-8 TRTX-S)	1
47	06-057800		NUT, TUBE (12 BTX-S)	1
48	06-054600		RUN TEE, 37° FEMALE SWIVEL NUT (8 R6X-S)	2
49	06-053100		45° ELBOW, SWIVEL NUT (8 V6X-S)	1
50	06-060300		REDUCER, TUBE END (8-6 TRTX-S)	2
51	06-057600		NUT, TUBE (8 BTX-S)	2
52	06-051600		90° ELBOW, SWIVEL NUT (8 C6X-S)	1
			Port "P" (on top) (Pressure Port):	
53	06-040800		ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
54	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	1
55	06-054800		RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S)	1
56	06-060800		REDUCER, TUBE END (12-6 TRTX-S)	1
57	06-057800		NUT, TUBE (12 BTX-S)	1
58	06-197700		MALE CONNECTOR, SWIVEL NUT (6 F6X-S)	1
59	06-084700		90° ELBOW, FEMALE PIPE THREAD (1/4 DD-S)	1
60	06-053300		45° ELBOW, SWIVEL NUT (12 V6X-S)	1
61	01-021000		GAUGE, HYDRAULIC PRESSURE (1/4" male NPT)	
			(0-400 psi [0-28,000 kPa])	1
			Port "T" (on top) (Tank Port):	
62	06-040800		ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
63	06-053300		45° ELBOW, SWIVEL NUT (12 V6X-S)	1
TITLE			HYDRAULIC VALVE MANIFOLD ASSEMBLY, RP 86	
SECTION	C02.	PLATE NO.	206	PAGE 03
REV.	A	DATED	24 JUN., 1996	PART NO.
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C02.20602E



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TITLE

HYDRAULIC VALVE MANIFOLD ASSEMBLY, RP 86

PART
NO.

REV. A

DATED
24 JUN., 1996

SECTION

C02.

PLATE NO.

206

PAGE

03

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2500		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 03-496400		GAUGE, ENGINE OIL PRESSURE (12 Volt DC) 0 to 100 psi (690 kPa) (comes with Control Box Assembly) 0 to 40 psi (276 kPa) (needed for some applications)	1
7	01-225700		"O"-RING (1.989" I.D., .070" thick) (Meter seal to panel)	3
8	10-264200		DECAL, GROUND CONTROL English language (comes with Control Box Assembly)	1
	10-264202		French language	
	10-264203		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	03-730500		DIODE, LIGHT-EMITTING (L.E.D.) (12 Volt AC/ DC)	1
13	03-730400		LENS, PILOT LAMP (Clear)	1
14	03-730600		SWITCH, PUSH BUTTON (Green) (Choke/ Glow Plug)	1
15	03-730800		BLOCK, CONTACT (Normally open)	1
16	03-719800		SWITCH, TOGGLE (Two position, maintained contact, single pole, single throw)	1
17	03-506200		SEAL, TOGGLE SWITCH	1
18	03-496100 03-486500		SWITCH, KEY OPERATED (3 position) (includes 2 keys) Earlier version (For replacement, order later type, below) Later version (Supersedes earlier type, above)	1
19	03-454900		BASE, CONTACT BLOCK (for later type Key Switch)	1
20	03-501900		BLOCK, CONTACT Normally open, double pole, double throw (for earlier Switch)	1
	03-437200		Normally open (for later Switch)	4
21	03-730600		SWITCH, PUSH BUTTON (Green) (Engine Start)	1
22	03-730800		BLOCK, CONTACT (Normally open)	1
23	03-487100		SENSOR, LEVEL (4.5°, 2 second delay)	1
24	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	2
25	07-050014		NUT, STOP (1/4"-20, Grade 5)	2

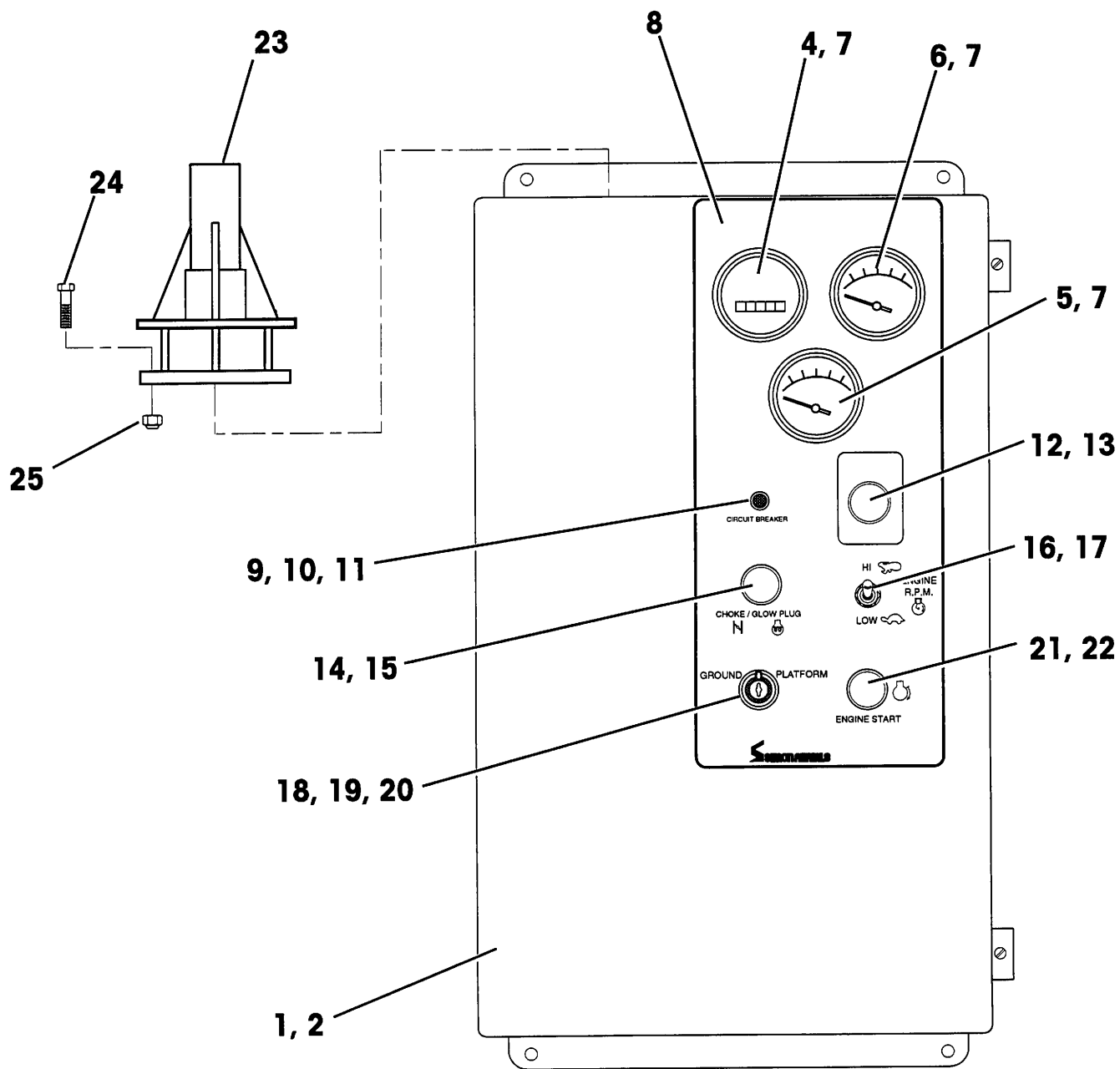
TITLE

GROUND CONTROL BOX ASSEMBLY, RP 86 AND T-80

SECTION **C03.** PLATE NO. **204** PAGE **01** REV. **A** DATED **13 JUN., 1996** PART NO. **354 2500**



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Art # C03.20401E



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TITLE

GROUND CONTROL BOX ASSEMBLY, RP 86 AND T-80

PART NO.

354 2500

REV. A

DATED

13 JUN., 1996

SECTION

C03.

PLATE NO.

204

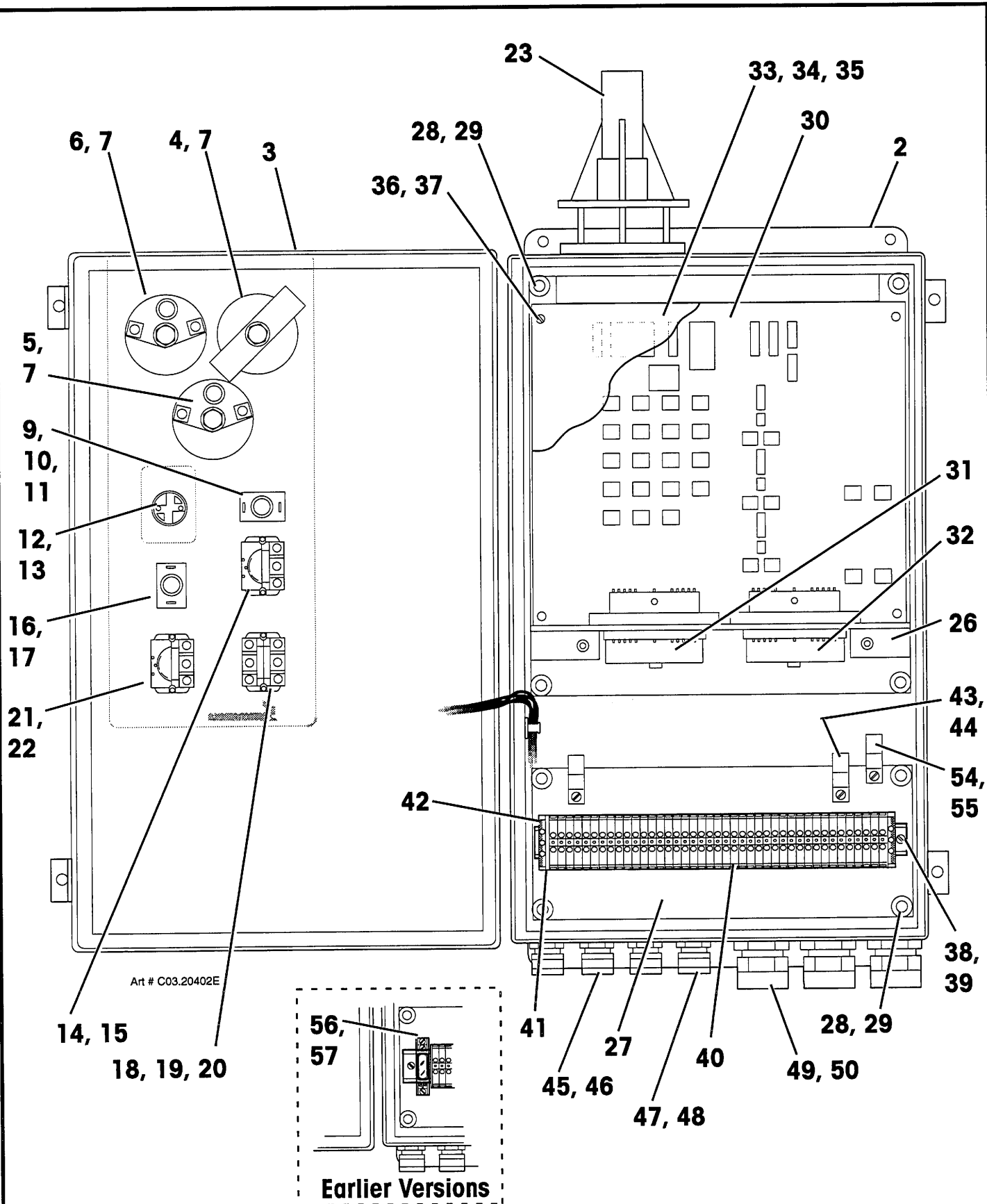
PAGE

01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
26	234 7800		GROUND CONTROL BOX ASSEMBLY (continued)	
27	235 0480		SUBPLATE, MOUNTING (upper)	1
			SUBPLATE, MOUNTING (lower)	1
28	07-013411		MACHINE SCREW, ROUND HD (#10-32 x 5/16", Grade 2)	10
29	07-117600		WASHER, EXTERNAL TOOTH (#10)	8
30	03-731000		BOARD, PRINTED CIRCUIT	1
31	03-732200		PLUG, ELECTRICAL (marked "DRC 18-40S A ")	1
32	03-732300		PLUG, ELECTRICAL (marked "DRC 18-40S B ")	1
33	235 0150		COVER, PRINTED CIRCUIT BOARD	1
34			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	
35	10-269200		DECAL, "WARNING" (Controller board diagram) (mounts to inside of circuit board cover)	
36	07-011344		MACHINE SCREW, PAN HEAD (#8-32 x 3/4", Grade 2)	1
37	07-050009		NUT, HEX LOCK (#8-32, Grade 5)	4
38	03-051700		RAIL, TERMINAL (1m [39.37"] long section. Cut to fit. 10.75" [273 m] piece required in this application.)	A.R.
39	07-011335		MACHINE SCREW, PAN HEAD (#6-32 x 1/2")	2
40	03-505600		BLOCK, TERMINAL	39
41	03-066100		PLATE, TERMINAL BLOCK END	2
42	03-039100		BLOCK, TERMINAL (Grounding, for #12 Ga. wire)	2
43	03-469200		SOCKET, RELAY	2
44	03-467500		RELAY (Sealed, 12 Volt DC, normally open, SPDT)	2
45	03-041700		GRIP, CORD (3/8", with .31" to .38" seal)	3
46	03-055700		NUT, CONDUIT LOCK (3/8")	3
47	03-041000		GRIP, CORD (1/2", with .38" to .44" seal)	4
48	03-055500		NUT, CONDUIT (1/2")	4
49	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)	3
50	03-055600		NUT, CONDUIT LOCK (3/4")	3
51	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	A.R.
52	03-064000		TIE, CABLE (7.4" [188 mm] long)	A.R.
53	03-064100		MOUNT, CABLE TIE (Adhesive backed)	A.R.
			The following items are not included with the Ground Control Box:	
54	03-467500		RELAY (Sealed, 12 Volt DC, normally open, SPDT)(for optional lights)	1
55	03-469200		SOCKET, RELAY (for optional lights)	1
56	03-051500		RELAY, PLUG IN (12 Volt DC, single pole) (Mounted on terminal rail. Used in place of Items 43 and 44 on some early versions)	1
57	03-051600		SOCKET, RELAY (Single pole, snap mount) (for rail mounted relay)	1
TITLE			GROUND CONTROL BOX ASSEMBLY, RP 86 AND T-80	
SECTION	C03.	PLATE NO.	204	PAGE 02
REV.	A	DATED	13 JUN., 1996	PART NO. 354 2500


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TITLE

GROUND CONTROL BOX ASSEMBLY, RP 86 AND T-80

PART NO.

354 2500

REV. A

DATED

13 JUN., 1996

SECTION

C03.

PLATE NO.

204

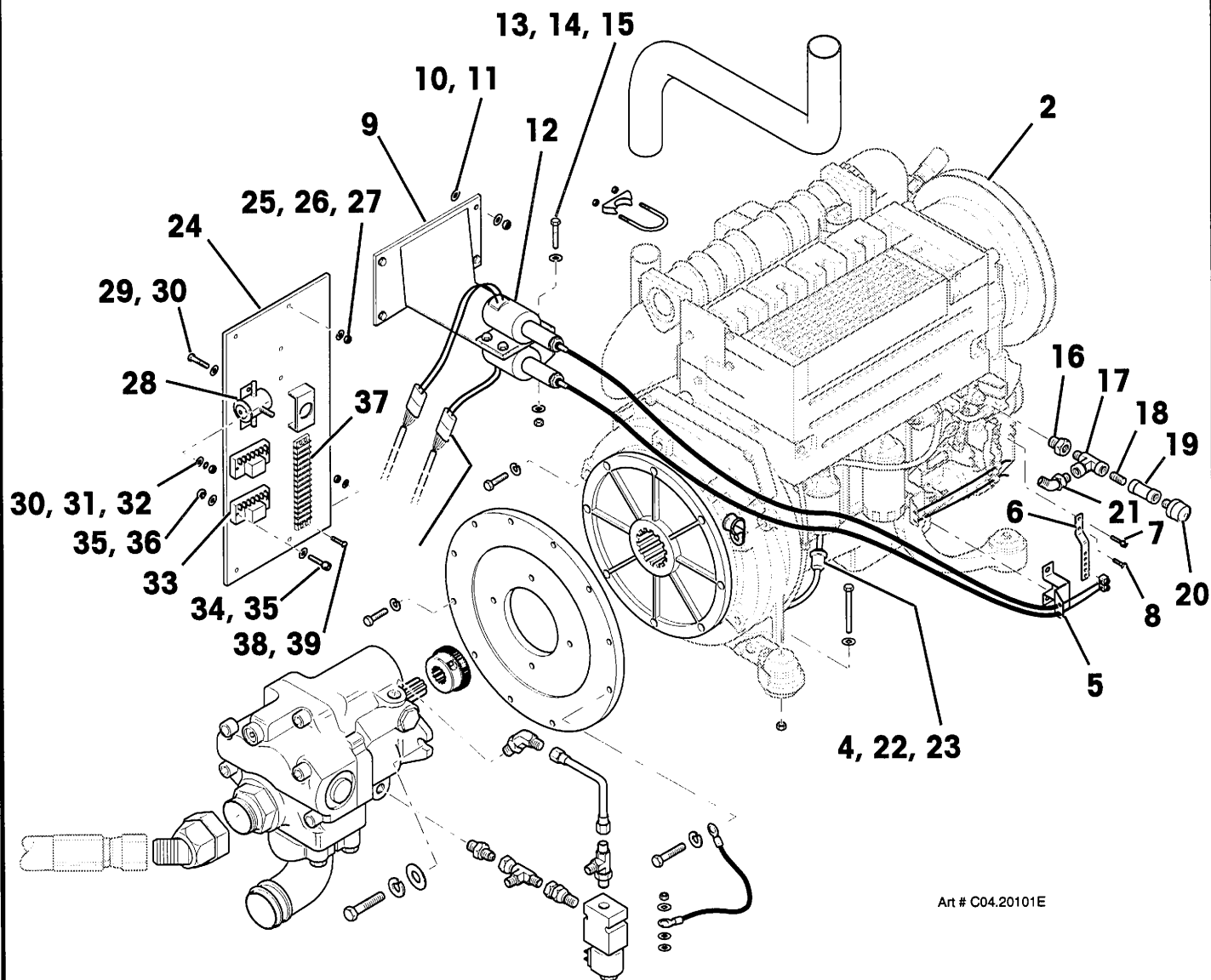
PAGE

02

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2740		ENGINE ASSEMBLY (Deutz Model F4L1011)	1
2	09-046300		ENGINE, DIESEL (Deutz Model F4L1011)	1
3			SWITCH, OIL PRESSURE (comes with engine)	1
4			FILTER, FUEL (comes with engine)	1
5	235 5580		BRACKET, THROTTLE CABLE	1
6	235 5570		ARM, THROTTLE LEVER	1
7			CAP SCREW, SOCKET HEAD (1/4"-28 X 5/8")	1
8	07-005112		CAP SCREW, HEX HEAD (M6-1.0 x 16 mm, Grade 8.8)	1
9	235 5840		BRACKET, THROTTLE SOLENOID	1
10	07-060015		WASHER, FLAT (5/16", SAE)	8
11	07-050015		NUT, STOP (5/16"-18)	4
12	03-736200		SOLENOID (includes cable end hardware)	2
13	07-003005		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	4
14	07-060014		WASHER, FLAT (1/4", SAE)	8
15	07-050014		NUT, LOCK (1/4"-20, Grade 5)	4
16	06-211300		ADAPTER, BSP TO NPT (1/8 x 1/8 F3HG-S)	1
17	06-074600		STREET TEE (1/8 MRO-S)	1
18	11-020013		CLOSE NIPPLE (1/8" NPT, 3/4" long)	1
19	11-040023		COUPLING, LONG (1/8" NPT)	1
20	09-052200		SENDING UNIT, OIL PRESSURE GAUGE (0-100 psi [690 kPa])	1
21	06-081300		45° STREET ELBOW (1/8 CD45-S)	1
22	05-081900		FUEL LINE (5/16") (Bulk item, order as needed. 9" [22.9 cm] needed this application)	A.R.
23	09-004600		CLAMP, WORM (1/4" to 5/8")	2
24	235 2040		PANEL, ENGINE ACCESSORY	1
25	06-059000		SPACER (Sleeve 6 TX-S)	4
26	07-060016		WASHER, FLAT (3/8", SAE)	8
27	07-050016		NUT, STOP (3/8"-16)	4
28	03-051300		RELAY (12 Volt DC, single pole, single throw)	1
29	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	2
30	07-060014		WASHER, FLAT (1/4", SAE)	2
31	07-111600		WASHER, EXTERNAL TOOTH LOCK (1/4")	1
32	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
33	03-456803		MODULE, THROTTLE SOLENOID	2
34	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4")	4
35	07-062009		WASHER, FLAT (#8)	8
36	07-050011		NUT, STOP (#10-24)	4
37	03-468700		BLOCK, TERMINAL (14 station)	1
38	07-011334		MACHINE SCREW, ROUND HEAD (#6 32 x 3/4")	2
39	07-050007		NUT, STOP (#6-32, Grade 5)	2
TITLE			ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL	
SECTION	PLATE NO.	PAGE	REV.	DATED
C04.	201	01	-	10 MAY, 1996
			PART NO.	



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Art # C04.20101E



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TITLE

ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL

PART
NO.

REV.

DATED

10 MAY, 1996

SECTION

C04.

PLATE NO.

201

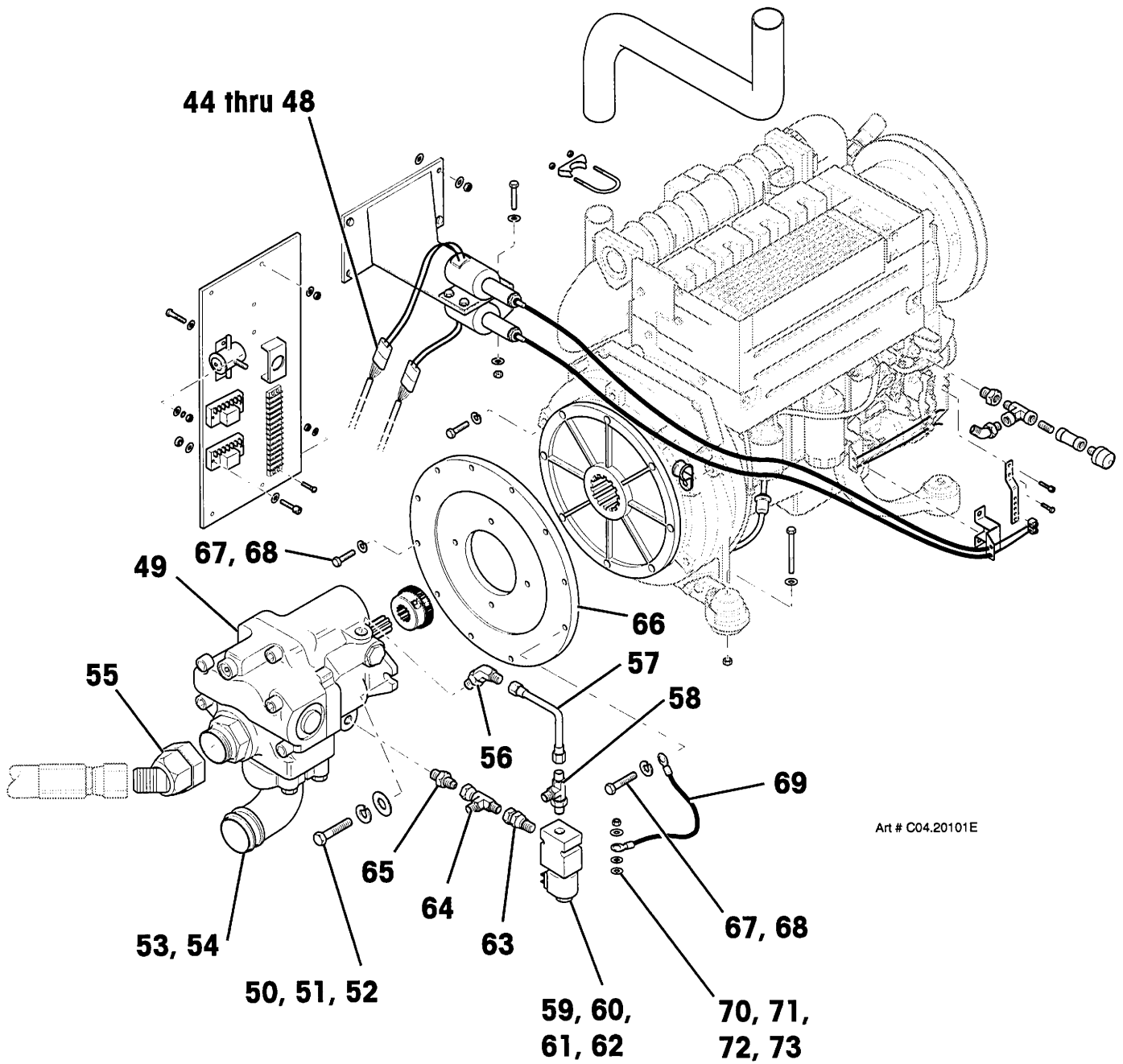
PAGE

01

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
40	07-003002		ENGINE ASSEMBLY (continued) CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Gr. 5) (Panel ground, used on some earlier versions. Not shown.)	1
41	07-060014		WASHER, FLAT (1/4", SAE)	1
42	07-111600		WASHER, EXTERNAL TOOTH LOCK (1/4")	1
43	07-050014		NUT, LOCK (1/4"-20, Grade 5)	1
44	03-473700		HOUSING, TERMINAL (4 conductor)	2
45	03-473800		PLUG, TERMINAL (4 conductor)	2
46	03-474000		SOCKET, TERMINAL (for 14-16 gauge wire)	6
47	03-473900		PIN, TERMINAL	6
48	03-474100		SEAL, WIRE (.079" to .110" dia.)	6
49	01-239800	D08.15	PUMP ASSEMBLY, HYDRAULIC (marked "PAVC 65 X 3266 ") (65 c.c./ rev. output, 3500 psi)	1
50	07-003126		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/4", Grade 5)	4
51	07-060021		WASHER, FLAT (5/8")	4
52	07-065021		WASHER, HELICAL LOCK (5/8")	4
53	06-214400		FLANGE, SUCTION FITTING (2") (includes two flange halves and mounting hardware)	1
54	06-214300		90° FITTING (2" stem to 1-1/2" hose)	1
55	06-190600		45° ELBOW ("O"-Ring to beaded hose connection) (earlier)	1
	06-218000		45° ELBOW ("O"-Ring to threaded hose connection) (later)	1
56	06-047000		45° ELBOW, ""O"-RING TO 37° (6 V50X-S)	1
57	353 6550		TUBE, HYDRAULIC	1
58	06-048500		RUN TEE, MALE ""O"-RING TO 37° (6 R50X-S)	1
59	01-013900		VALVE BLOCK, CARTRIDGE	1
60	01-013700		VALVE, TWO-WAY (Solenoid operated)	1
61	01-013701		SEAL KIT, VALVE	1
62	01-013702		COIL (12 Volt DC)	1
63	06-079000		CONNECTOR, SWIVEL NUT (6 F650X-S)	1
64	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	1
65	06-191900		ADAPTER, ""O"-RING TO 37° (6-4 F50X-S)	1
66	02-011500		ADAPTER, PUMP (1/2" [13 mm] thick) (8 hole, 12-3/8" pilot flywheel housing to "C" [2 hole, 5" pilot] pump mount)	1
67	07-005184		CAP SCREW, HEX HEAD (M10 x 25 mm, Grade 8.8)	8
68	07-066006		WASHER, LOCK (10 mm)	8
69	03-074000		CABLE, GROUND (Black, 9-3/4" [25 cm] long) or . . .	1
	03-735800		STRAP, GROUND (Braided, 12" [30.5 cm] long)	1
70	07-062018		WASHER, FLAT (1/2")	1
71	07-062016		WASHER, FLAT (3/8")	1
72	07-065016		WASHER, HELICAL LOCK (3/8")	1
73	07-040016		NUT, HEX (3/8"-16, Grade 5)	1
TITLE			ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL	
SECTION	C04.	PLATE NO.	201	PAGE 02
REV.	-	DATED	10 MAY, 1996	PART NO.



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Art # C04.20101E



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TITLE

ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL

PART
NO.

REV.

DATED

10 MAY, 1996

SECTION

C04.

PLATE NO.

201

PAGE

02

PARTS LIST

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TITLE

ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL

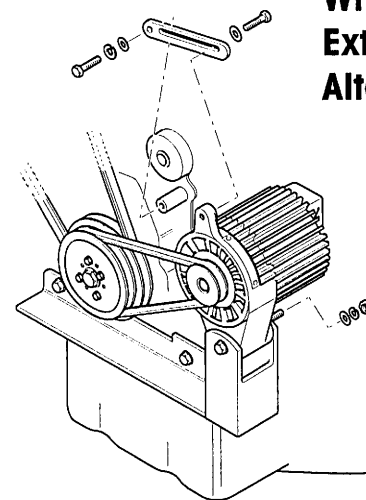
SECTION	C04.	PLATE NO.	201	PAGE	03
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REV.	DATED	PART
-	10 MAY, 1996	NO.



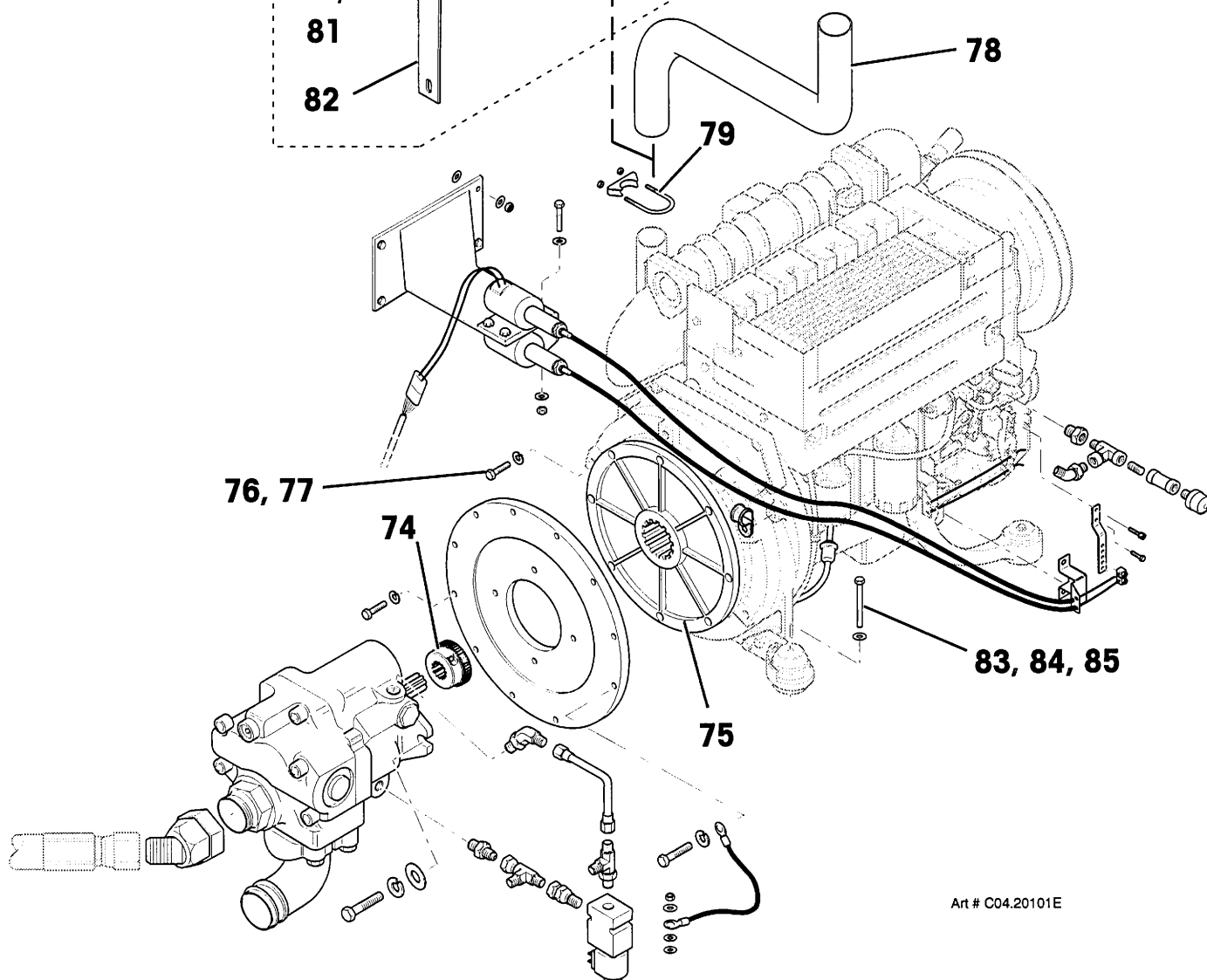
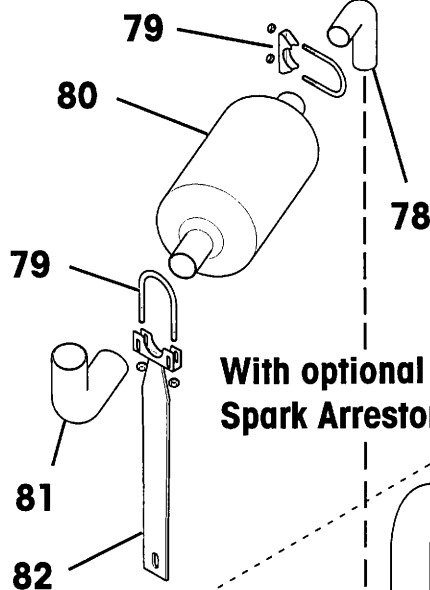
Simon Aerials Inc.
10600 West Brown Deer Road
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24 Hr (Machine) 414-362-8280
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**With optional
External
Alternator**



Art # C04.20102E

**With optional
Spark Arrestor**



Art # C04.20101E



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TITLE

ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL

PART
NO.

REV.

DATED

10 MAY, 1996

SECTION

C04.

PLATE NO.

201

PAGE

03

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2720		ENGINE ASSEMBLY (Isuzu C-240)	1
2	231 9100		ENGINE (modified Isuzu C-240 liquid cooled Diesel)	1
3			SWITCH, OIL PRESSURE (comes with engine)	1
4			LAMP, GLOW PLUG INDICATOR (comes with engine)	1
5			AIR CLEANER ASSEMBLY (comes with engine)	1
6			ELEMENT, AIR FILTER (comes with engine)	1
7			PIPE, EXHAUST (Straight) (comes with engine)	1
8			CLAMP, MUFFLER (comes with engine)	1
9			MUFFLER (comes with engine)	1
10	236 0170		BRACKET, THROTTLE CABLE	1
11	236 0160		ARM, THROTTLE LEVER	1
12	235 2350		BRACKET, THROTTLE SOLENOID	1
13	07-060015		WASHER, FLAT (5/16", SAE)	8
14	07-050015		NUT, STOP (5/16"-18)	4
15	03-736200		SOLENOID (includes cable end hardware)	2
16	07-003005		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	4
17	07-060014		WASHER, FLAT (1/4", SAE)	8
18	07-050014		NUT, LOCK (1/4"-20, Grade 5)	4
19	06-211300		ADAPTER, BSP TO NPT (1/8 x 1/8 F3HG-S)	1
20	06-074600		STREET TEE (1/8 MRO-S)	1
21	09-052200		SENDING UNIT, OIL PRESSURE GAUGE (0-100 psi [690 kPa])	1
22	05-081900		FUEL LINE (5/16") (Vent, valve cover breather) (Bulk item, order as needed. 2.4 ft [.73 m] used here.)	A.R.
23	09-004600		CLAMP, WORM (1/4" to 5/8")	1
24	10-061200		CLAMP, LOOP (G-12, 3/4")	1
25	07-005147		CAP SCREW, HEX HEAD (M8-1.25 x 16 mm, Grade 8.8)	1
26	07-066005		WASHER, HELICAL LOCK (8 mm)	2
27	235 2040		PANEL, ENGINE ACCESSORY	1
28	06-059000		SPACER (Sleeve 6 TX-S)	4
29	07-060016		WASHER, FLAT (3/8", SAE)	8
30	07-050016		NUT, STOP (3/8"-16)	4
31	03-051300		RELAY (12 Volt DC, single pole, single throw)	2
32	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	4
33	07-060014		WASHER, FLAT (1/4", SAE)	4
34	07-111600		WASHER, EXTERNAL TOOTH LOCK (1/4")	2
35	07-050014		NUT, LOCK (1/4"-20, Grade 5)	4
36	03-456803		MODULE, THROTTLE SOLENOID	3
37	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4")	6
38	07-062009		WASHER, FLAT (#8)	12
39	07-050011		NUT, STOP (#10-24)	6

TITLE

ENGINE ASSEMBLY, ISUZU C-240 DIESEL

SECTION

C04.

PLATE NO.

202

PAGE

01

REV.

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DATED

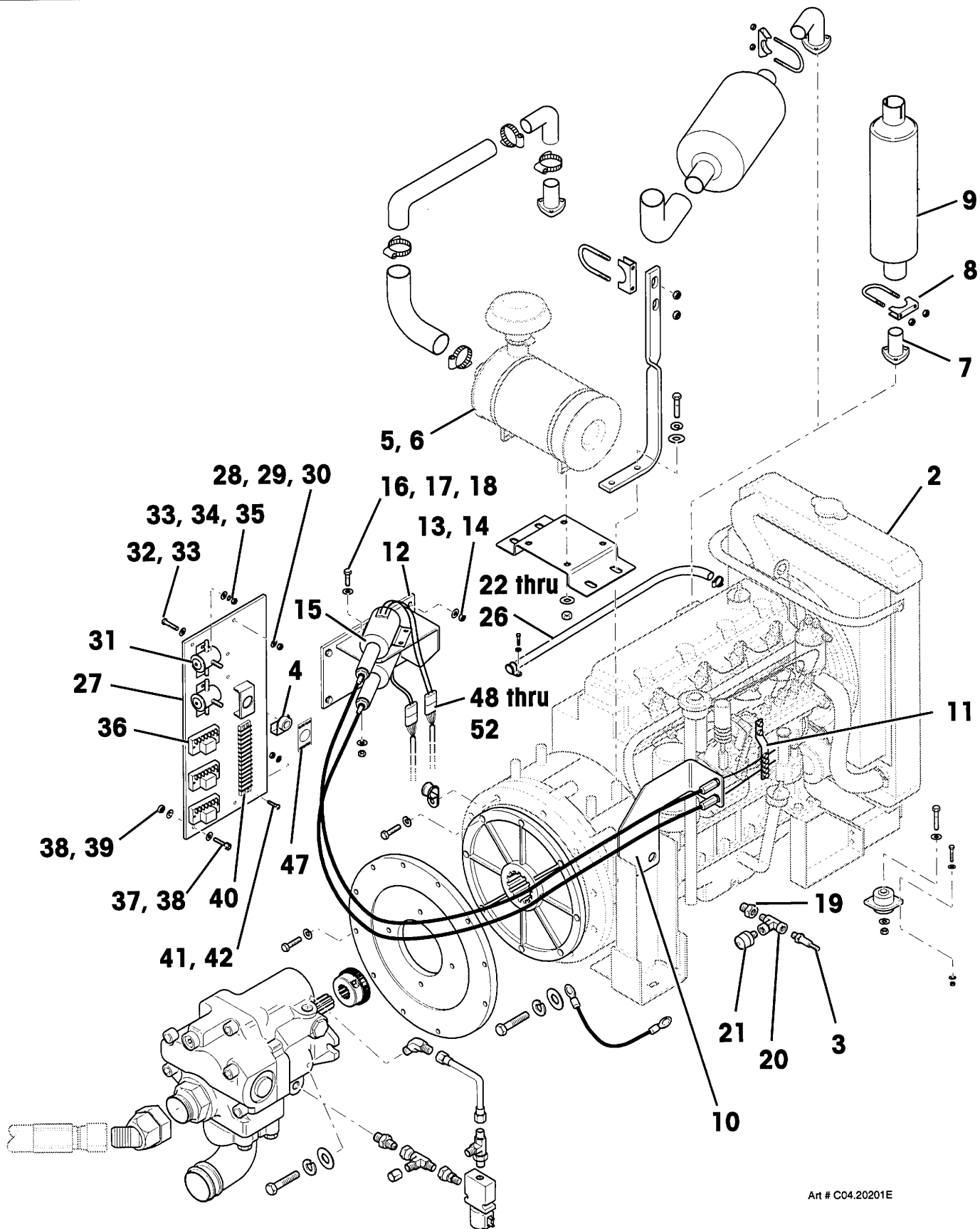
10 MAY, 1996

PART

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Art # C04.20201E



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ENGINE ASSEMBLY, ISUZU C-240 DIESEL

PART
NO.

REV.

DATED

10 MAY, 1996

SECTION

C04.

PLATE NO.

202

PAGE

01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
40	03-468700		ENGINE ASSEMBLY (continued)	
41	07-011334		BLOCK, TERMINAL (14 station)	1
42	07-050007		MACHINE SCREW, ROUND HEAD (#6 32 x 3/4")	2
43	07-003002		NUT, STOP (#6-32, Grade 5)	2
			CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	
			(Panel ground, used on some earlier versions. Not shown.)	1
44	07-060014		WASHER, FLAT (1/4", SAE)	1
45	07-111600		WASHER, EXTERNAL TOOTH LOCK (1/4")	1
46	07-050014		NUT, LOCK (1/4"-20, Grade 5)	1
47	10-115800		DECAL, "GLOW PLUG INDICATOR"	1
48	03-473700		HOUSING, TERMINAL (4 conductor)	2
49	03-473800		PLUG, TERMINAL (4 conductor)	2
50	03-474000		SOCKET, TERMINAL (for 14-16 gauge wire)	6
51	03-473900		PIN, TERMINAL	6
52	03-474100		SEAL, WIRE (.079" to .110" dia.)	6
53	01-239800	D08.15	PUMP ASSEMBLY, HYDRAULIC (marked "PAVC 65 X 3266")	
			(65 c.c./ rev. output, 3500 psi)	1
54	07-003127		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 5)	2
55	07-060021		WASHER, FLAT (5/8")	2
56	07-065021		WASHER, HELICAL LOCK (5/8")	2
57	06-216700		FLANGE, SUCTION FITTING (1-1/2")	
			(includes two flange halves and mounting hardware)	1
58	06-216600		90° FITTING (1-1/2" stem to 1-1/2" hose)	1
59	06-190600		45° ELBOW ("O"-Ring to beaded hose connection) (earlier)	1
	06-218000		45° ELBOW ("O"-Ring to threaded hose connection) (later)	1
60	06-047000		45° ELBOW, ""O"-RING TO 37° (6 V50X-S)	1
61	353 6550		TUBE, HYDRAULIC	1
62	06-048500		RUN TEE, MALE ""O"-RING TO 37° (6 R50X-S)	1
63	01-013900		VALVE BLOCK, CARTRIDGE	1
64	01-013700		VALVE, TWO-WAY (Solenoid operated)	1
65	01-013701		SEAL KIT, VALVE	1
66	01-013702		COIL (12 Volt DC)	1
67	06-079000		CONNECTOR, SWIVEL NUT (6 F650X-S)	1
68	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	1
69	06-191900		ADAPTER, ""O"-RING TO 37° (6-4 F50X-S)	1
70	02-036500		ADAPTER, PUMP (1/2" [13 mm] thick)	
			(12 hole, 14-1/4" pilot flywheel housing to "C" [2 hole, 5" pilot] pump mount)	1
71	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4")	12
72	07-065016		WASHER, HELICAL LOCK (3/8")	12

TITLE

ENGINE ASSEMBLY, ISUZU C-240 DIESEL

SECTION

C04.

PLATE NO.

202

PAGE

02

REV.

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DATED

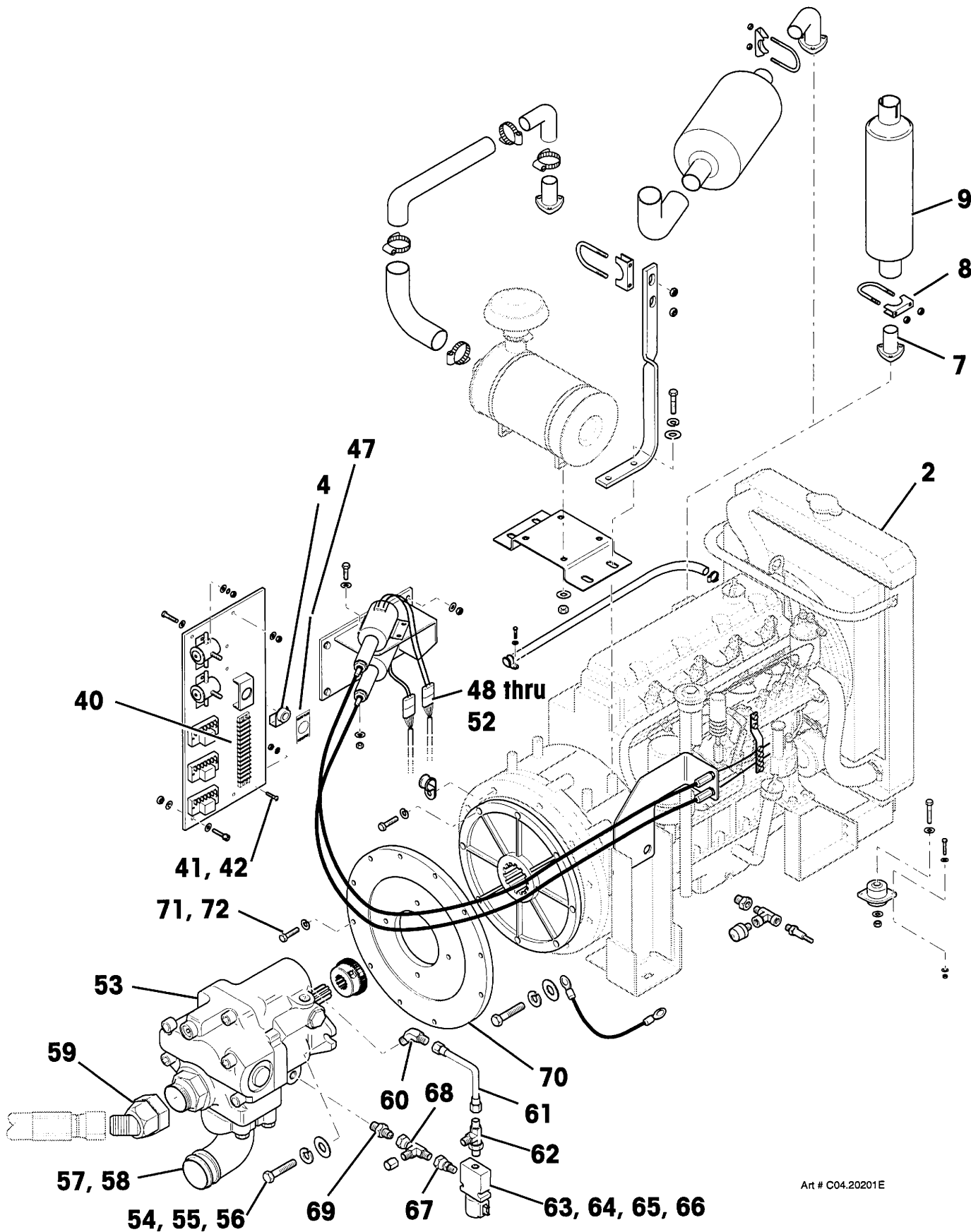
10 MAY, 1996

PART

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Art # C04.20201E



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ENGINE ASSEMBLY, ISUZU C-240 DIESEL

PART
NO.

REV.

DATED

10 MAY, 1996

SECTION

C04.

PLATE NO.

202

PAGE

02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			ENGINE ASSEMBLY (continued)	
73	03-735800		STRAP, GROUND (Braided, 12" [30.5 cm] long)	1
74	07-005184		CAP SCREW, HEX HEAD (M10 x 25 mm, Grade 8.8)	1
75	07-066006		WASHER, LOCK (10 mm)	1
76	07-060016		WASHER, FLAT (3/8", SAE)	2
77	02-046000		HUB, PUMP COUPLING (1.25", 14 tooth spline).	1
78	02-046200		FLANGE, PUMP COUPLING.	1
79	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4")	8
80	07-065016		WASHER, HELICAL LOCK (3/8")	8
81	10-061200		CLAMP, LOOP (G-12, 3/4")	1
82	218 0190		BRACKET, AIR CLEANER	1
83	07-005184		CAP SCREW, HEX HEAD (M10 x 25 mm, Grade 8.8)	4
84	07-066006		WASHER, LOCK (10 mm)	4
85	07-062016		WASHER, FLAT (3/8")	4
86	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1")	4
87	07-050016		NUT, STOP (3/8"-16)	4
88	07-060016		WASHER, FLAT (3/8", SAE)	4
89	09-015000		CLAMP, HOSE (Worm type) (3")	4
90	09-018900		ELBOW, RUBBER (2" I.D.)	2
91	09-051100		PIPE, AIR INTAKE (Metal)	1
92	235 5380		PIPE, EXHAUST ("L"-shape)	1
93	09-051100		PIPE, TAIL (2" O.D.) (must be modified)	1
94	235 5370		BRACKET, MUFFLER SUPPORT	1
95	09-006500		MOUNT, ENGINE	4
96	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4")	8
97	07-060016		WASHER, FLAT (3/8", SAE)	8
98	07-062016		WASHER, FLAT (3/8")	8
99	07-050016		NUT, STOP (3/8"-16)	8
100	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3")	4
101	07-060018		WASHER, FLAT (1/2", SAE)	4
102	07-058400		NUT, LOCK (1/2"-13, Grade 8)	4

TITLE

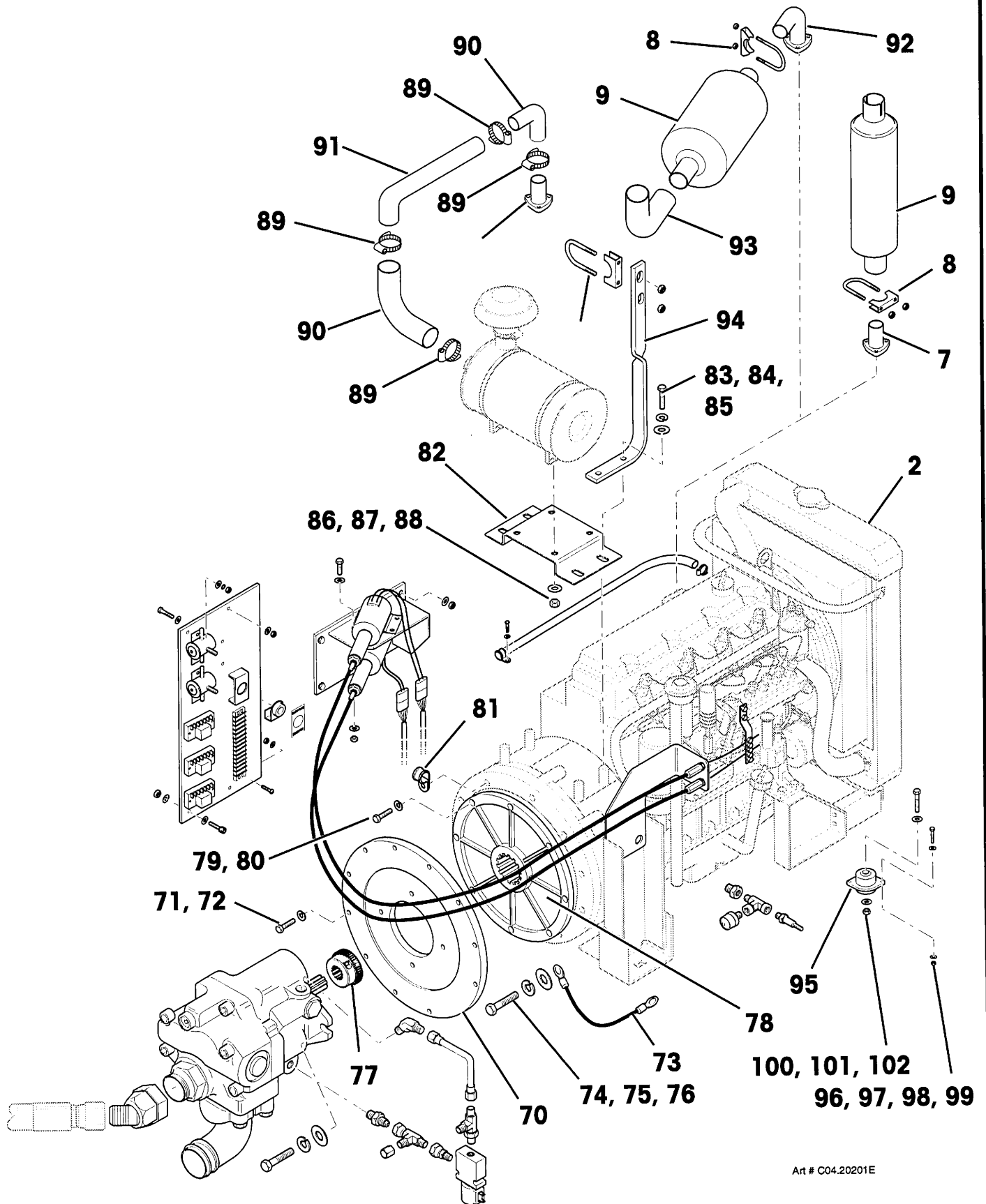
ENGINE ASSEMBLY, ISUZU C-240 DIESEL

SECTION **C04.** | PLATE NO. **202** | PAGE **03**

REV. - | DATED 10 MAY, 1996 | PART NO.



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Art # C04.20201E



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ENGINE ASSEMBLY, ISUZU C-240 DIESEL

PART
NO.

REV.

DATED

10 MAY, 1996

SECTION

C04.

PLATE NO.

202

PAGE

03

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	Call Simon Call Simon		ENGINE ASSEMBLY (Ford LRG-423) 63 HP (47 Kw) liquid cooled gas four cylinder 63 HP (47 Kw) liquid cooled dual fuel four cylinder	1
2	-----		RELAY, STARTER (Comes with engine. Marked "E4JL-11450-AA")	1
3	-----		MODULE (Blue. Comes with engine. Marked "F4JL-12A458-BB")	1
4	-----		MODULE (Gray. Comes with engine. Marked "F5JL-12A297-BA")	1
5	-----		BRACKET, FUEL PUMP MOUNTING (c/w engine)	1
6			BRACKET, RADIATOR MOUNTING	1
7			BRACKET, THROTTLE CABLE	1
8			ARM, THROTTLE LEVER	1
9			BRACKET, THROTTLE SOLENOID	1
10	07-060015		WASHER, FLAT (5/16", SAE)	8
11	07-050015		NUT, STOP (5/16"-18)	4
12	03-736200		SOLENOID (includes cable end hardware)	2
13	07-003005		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	4
14	07-060014		WASHER, FLAT (1/4", SAE)	8
15	07-050014		NUT, LOCK (1/4"-20, Grade 5)	4
16	235 2040		PANEL, ENGINE ACCESSORY	1
17	06-059000		SPACER (Sleeve 6 TX-S)	4
18	07-060016		WASHER, FLAT (3/8", SAE)	8
19	07-050016		NUT, STOP (3/8"-16)	4
20			RELAY	1
21	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	1
22	07-060014		WASHER, FLAT (1/4", SAE)	1
23	07-111600		WASHER, EXTERNAL TOOTH LOCK (1/4")	1
24	07-050014		NUT, LOCK (1/4"-20, Grade 5)	1
25	03-468700		BLOCK, TERMINAL (14 station)	1
26	07-011334		MACHINE SCREW, ROUND HEAD (#6 32 x 3/4")	2
27	07-050007		NUT, STOP (#6-32, Grade 5)	2
28	03-473700		HOUSING, TERMINAL (4 conductor)	2
29	03-473800		PLUG, TERMINAL (4 conductor)	2
30	03-474000		SOCKET, TERMINAL (for 14-16 gauge wire)	6
31	03-473900		PIN, TERMINAL	6
32	03-474100		SEAL, WIRE (.079" to .110" dia.)	6
33	01-239800	D08.15	PUMP ASSEMBLY, HYDRAULIC (marked "PAVC 65 X 3266 ") (65 c.c./ rev. output, 3500 psi)	1
34	07-003126		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/4", Grade 5)	4
35	07-060021		WASHER, FLAT (5/8")	4
36	07-065021		WASHER, HELICAL LOCK (5/8")	4

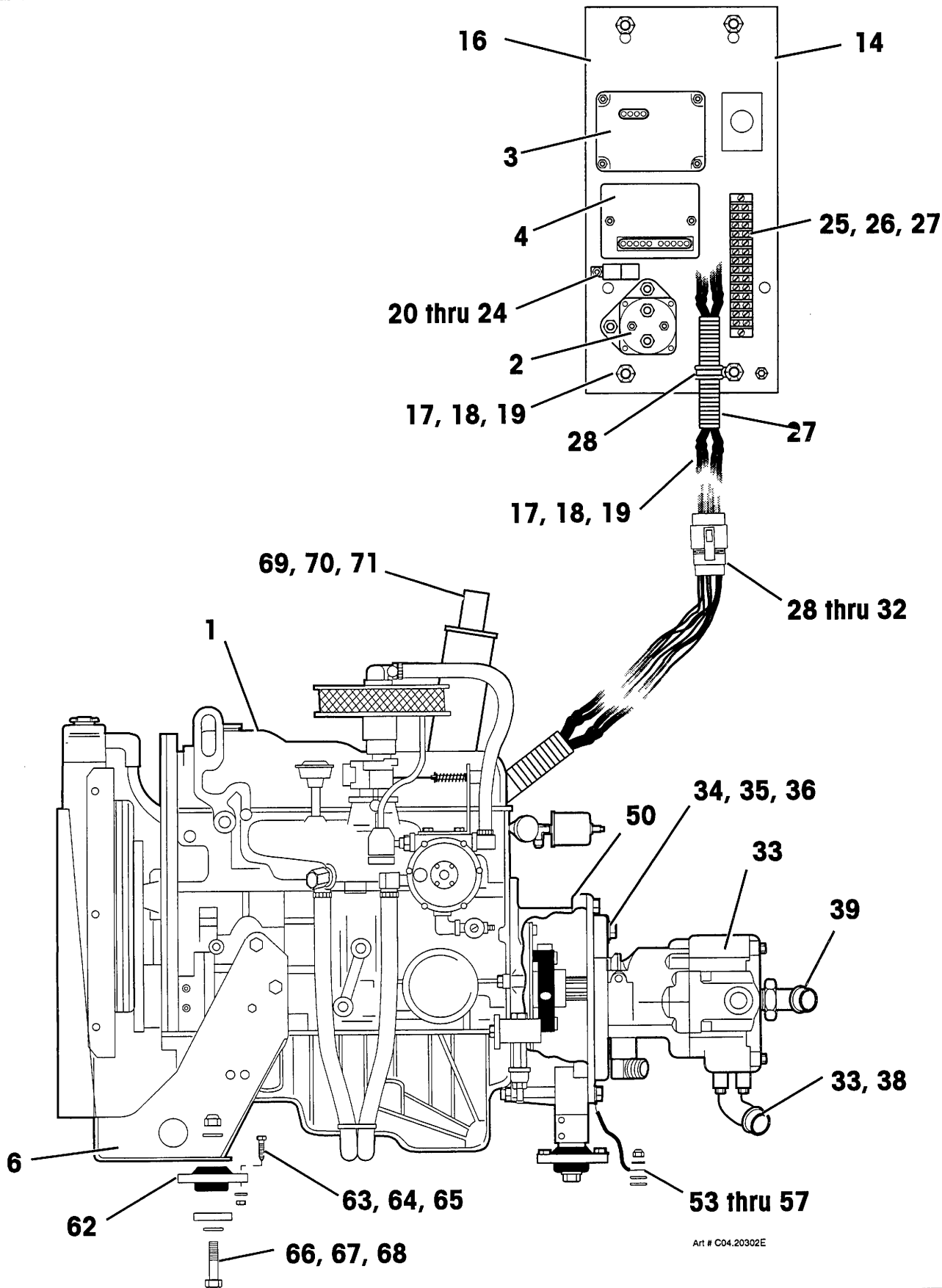
TITLE

ENGINE ASSEMBLY, FORD LRG-423

SECTION **C04.** PLATE NO. **203** PAGE **01**

REV. - DATED 24 JUN., 1996 PART NO.


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Art # C04.20302E



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TITLE

ENGINE ASSEMBLY, FORD LRG-423

PART
NO.

REV.

DATED

24 JUN., 1996

SECTION

C04.

PLATE NO.

203

PAGE

01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
37	06-214400		FLANGE, SUCTION FITTING (2") (includes two flange halves and mounting hardware)	1
38	06-214300		90° FITTING (2" stem to 1-1/2" hose)	1
39	06-218000		45° ELBOW ("O"-Ring to threaded hose connection)	1
40	06-047000		45° ELBOW, ""O"-RING TO 37° (6 V50X-S) (right side of pump)	1
41	353 6550		TUBE, HYDRAULIC	1
42	06-048500		RUN TEE, MALE ""O"-RING TO 37° (6 R50X-S)	1
43	01-013900		VALVE BLOCK, CARTRIDGE	1
44	01-013700		VALVE, TWO-WAY (Solenoid operated)	1
45	01-013701		SEAL KIT, VALVE	1
46	01-013702		COIL (12 Volt DC)	1
47	06-079000		CONNECTOR, SWIVEL NUT (6 F650X-S)	1
48	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	1
49	06-191900		ADAPTER, ""O"-RING TO 37° (6-4 F50X-S)	1
50			ADAPTER, PUMP	1
51			CAP SCREW, HEX HEAD	8
52			WASHER, LOCK	8
53	03-074000		CABLE, GROUND (Black, 9-3/4" [25 cm] long) or . . .	1
	03-735800		STRAP, GROUND (Braided, 12" [30.5 cm] long)	1
54	07-062018		WASHER, FLAT (1/2")	1
55	07-062016		WASHER, FLAT (3/8")	1
56	07-065016		WASHER, HELICAL LOCK (3/8")	1
57	07-040016		NUT, HEX (3/8"-16, Grade 5)	1
58			HUB, PUMP COUPLING	1
59			FLANGE, PUMP COUPLING.	1
60			CAP SCREW, HEX HEAD	6
61			WASHER, LOCK	6
			The following items are not part of the Engine Assembly:	
62	09-006500		MOUNT, ENGINE	4
63	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	8
64	07-065016		WASHER, HELICAL LOCK (3/8")	8
65	07-062016		WASHER, FLAT (3/8")	8
66	07-003096		CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5)	4
67	07-062018		WASHER, FLAT (1/2")	8
68	07-058400		NUT, LOCK (1/2"-13)	4
69	234 5740		FLANGE, EXHAUST (on other side of engine)	1
70	09-055100		MUFFLER, ENGINE EXHAUST	1
71	09-015400		CLAMP, MUFFLER (2")	1

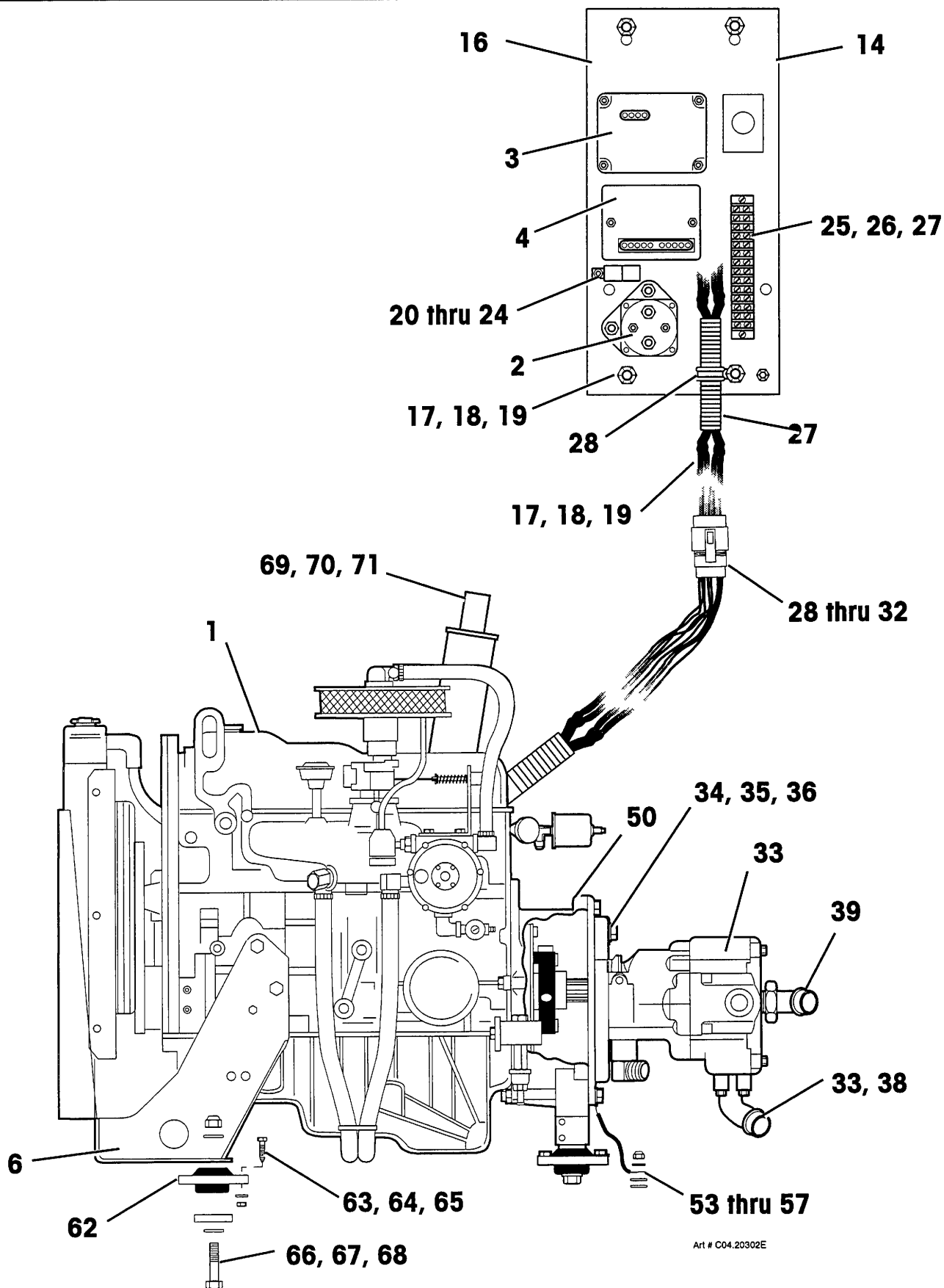
TITLE

ENGINE ASSEMBLY, FORD LRG-423

SECTION **C04.** | PLATE NO. **203** | PAGE **02**

REV. - | DATED 24 JUN., 1996 | PART NO.

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Art # C04.20302E



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TITLE

ENGINE ASSEMBLY, FORD LRG-423

PART
NO.

REV.
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DATED
24 JUN., 1996

SECTION

C04.

PLATE NO.

203

PAGE

02

PARTS LIST

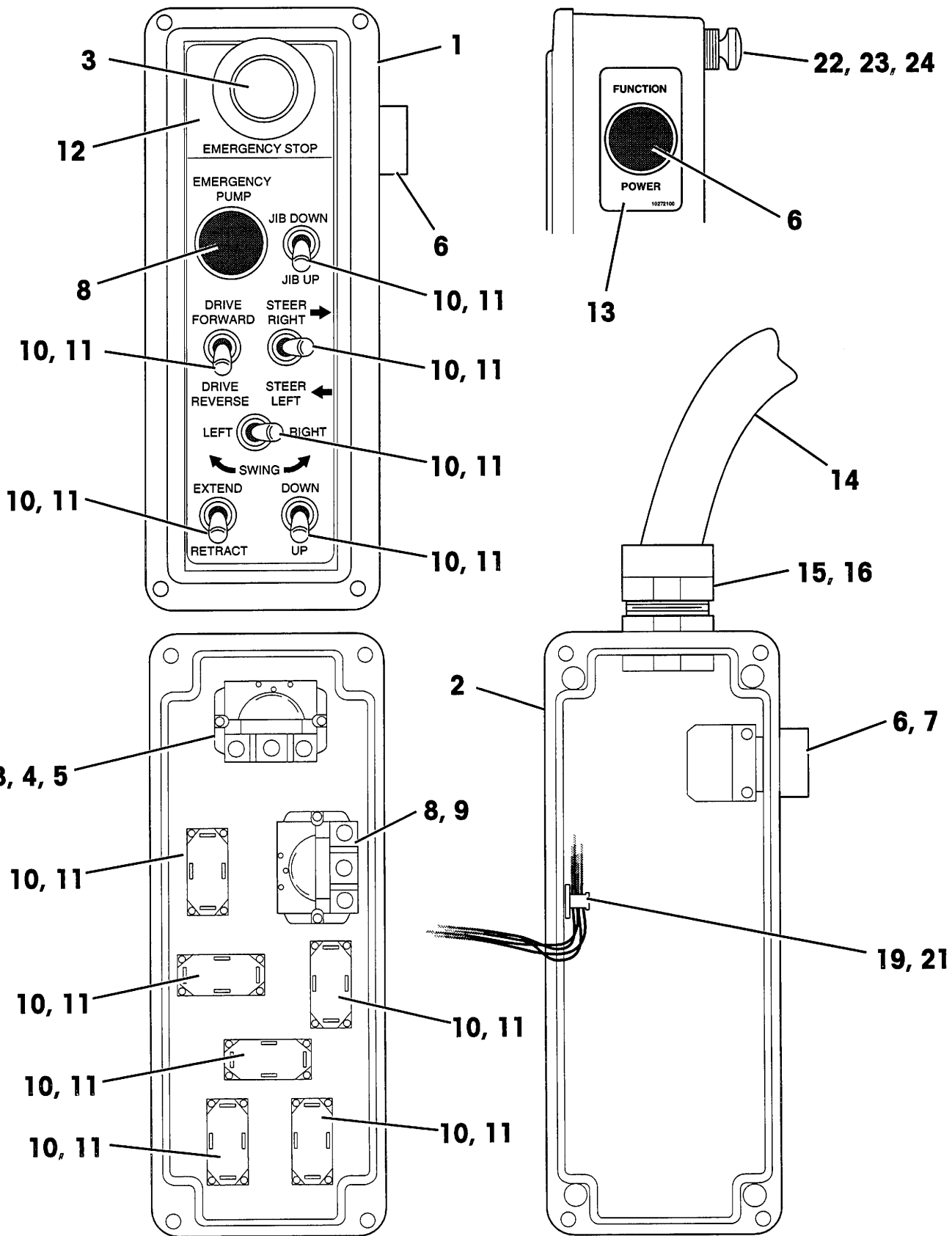
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2830		REMOTE PENDANT ASSEMBLY	1
2			BOX, ELECTRICAL (includes cover)	1
	03-063000		Undrilled	
	234 9240		Drilled for this application	
3	03-702000		SWITCH, PUSH BUTTON (Emergency stop) (Red "pull to release" style)	1
4	03-454900		BASE, CONTACT BLOCK	1
5	03-437300		BLOCK, CONTACT (Normally closed)	1
6	03-730600		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, single pole, double throw)	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	
	10-265203		German language	
13			DECAL, "FUNCTION POWER" (Side)	1
	10-272100		English language (included with Pendant Assembly)	
	10-272102		"FONCTION PUISSANCE" (French language)	
	10-272103		"FUNKTION STRUM" (German language)	
14	03-488900		CABLE, ELECTRICAL (Type F 570, 24 conductor, 16 AWG) (Bulk item. 20 ft [6.1 m] needed for this application)	A.R.
15	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)	1
16	03-055600		NUT, CONDUIT LOCK (3/4")	1
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, RP 86

SECTION **C06.** PLATE NO. **202** PAGE **01** REV. **A** DATED 24 JUN., 1996 PART NO. **354 2830**

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Fax 414-355-3172



Art # C06.20201E



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TITLE

REMOTE PENDANT ASSEMBLY, RP 86

PART NO.

354 2830

REV.

A

DATED

24 JUN., 1996

SECTION

C06.

PLATE NO.

202

PAGE

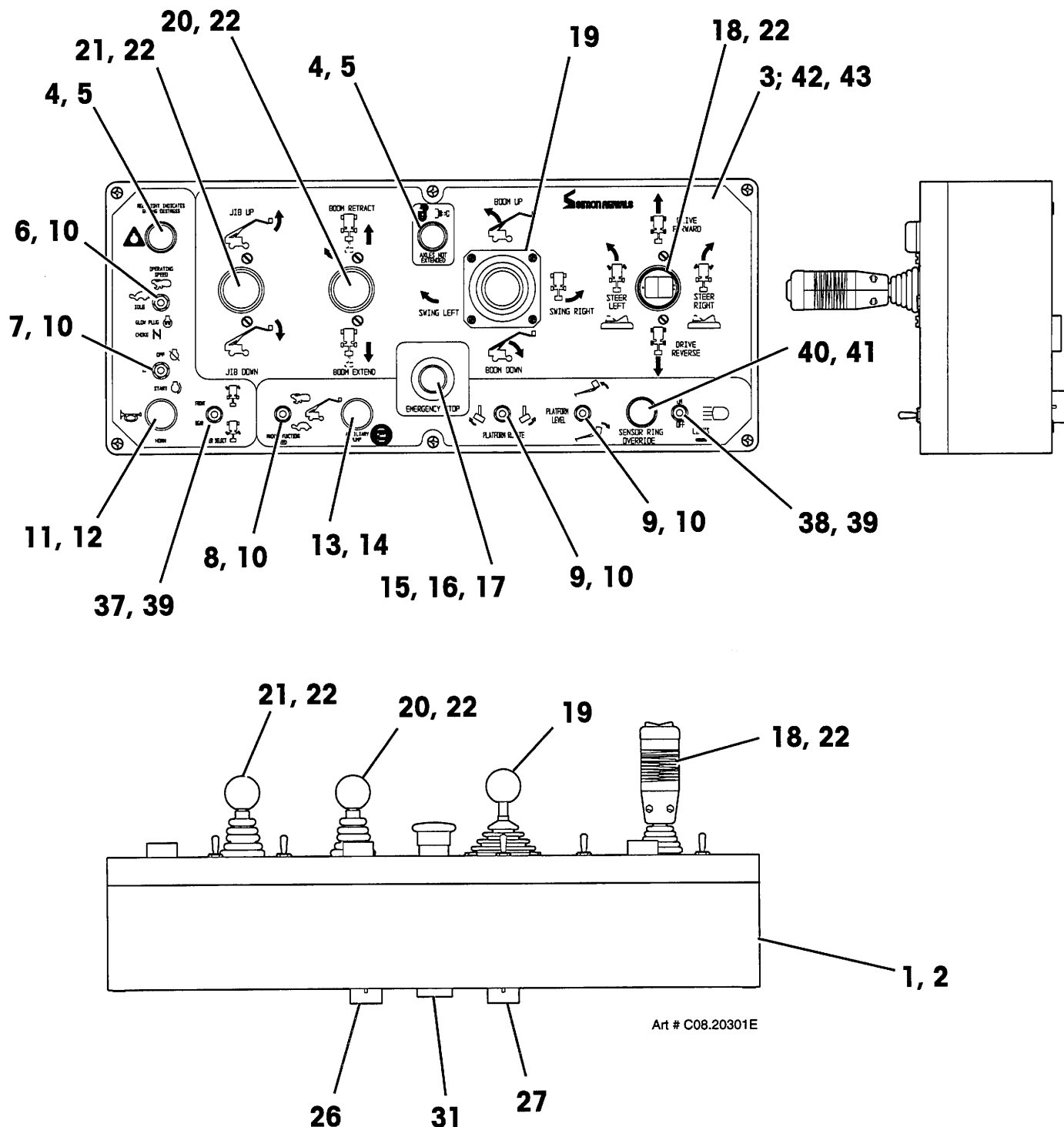
01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2490		PLATFORM CONTROL BOX ASSEMBLY	1
2			BOX, ELECTRICAL (23.6" x 9.8" x 4.8" deep. Includes cover)	1
	03-718600		Undrilled box	
	234 7470		Drilled for this application	
3	10-263800		PLACARD, PLATFORM CONTROL (Lexan, English language)	1
4	03-730400		LENS, PILOT LAMP (Clear) (Engine distress) (Axle extend warn)	2
5	03-730500		DIODE, LIGHT-EMITTING (L.E.D., 12 Volt AC/ DC)	2
6	03-730000		SWITCH, TOGGLE (Oper. Speed, Choke/ Glow Plug) (3 1NT91-5. Three position [1 momentary, 2 maintained] SPDT)	1
7	03-730100		SWITCH, TOGGLE (Off/ On/ Start) (3 2NT91-50. Three position [1 momentary, 2 maintained] DPDT)	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 (Platform Level/ Rotate) (3 1NT91-7. Three position [2 momentary, 1 maintained] SPDT)	2
10	03-506200		SEAL, TOGGLE SWITCH	2
11	03-730600		SWITCH, PUSH BUTTON (Green) (Horn)	1
12	03-730800		BLOCK, CONTACT (Normally open)	1
13	03-730700		SWITCH, PUSH BUTTON (Yellow) (Auxiliary Pump)	1
14	03-730800		BLOCK, CONTACT (Normally open)	1
15	03-702000		SWITCH, PUSH BUTTON (Emergency stop)	
			(Red "pull to release" style)	1
16	03-454900		BASE, CONTACT BLOCK	1
17	03-437300		BLOCK, CONTACT (Normally closed)	1
18	03-718800		CONTROLLER, SINGLE AXIS (with rocker) (Drive/ Steer)	1
19	03-718700		CONTROLLER, DUAL AXIS (Boom Up/ Down; Swing)	1
20	03-718900		CONTROLLER, SINGLE AXIS (Boom Extend/ Retract)	1
21	03-718900		CONTROLLER, SINGLE AXIS (Jib Up/ Down)	1
22	07-118000		"O"-RING (.156" I.D., for #6 controller mounting screws)	6

TITLE PLATFORM CONTROL BOX ASSEMBLY, RP 86				
SECTION C08.	PLATE NO. 203	PAGE 01	REV. A	DATED 13 JUN., 1996
PART NO. 354 2490				

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Art # C08.20301E



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TITLE

PLATFORM CONTROL BOX ASSEMBLY, RP 86

PART NO. 354 2490

REV. A

DATED 13 JUN., 1996

SECTION C08.

PLATE NO. 203

PAGE 01

PARTS LIST

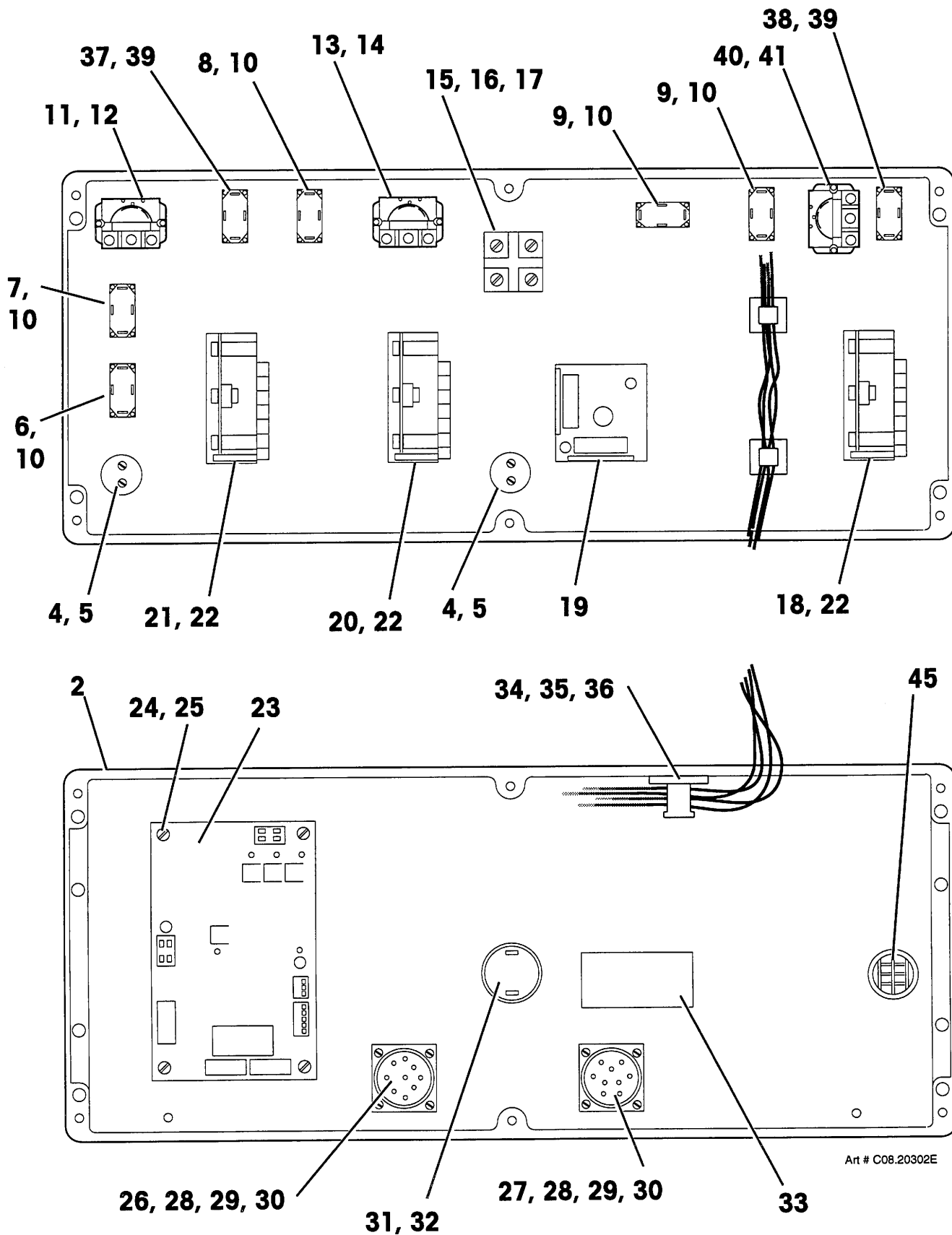
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
23	03-719700		PLATFORM CONTROL BOX ASSEMBLY (continued)	
24	07-011344		BOARD, PRINTED CIRCUIT	1
25	07-050009		MACHINE SCREW, PAN HEAD (#8-32 x 3/4", Grade 2)	4
26	03-719400		NUT, HEX LOCK (#8-32, Grade 5)	8
27	03-719600		RECEPTACLE, ELECTRICAL (9 pin) (Marked "HD10-9-96 P")	1
28	03-719500		RECEPTACLE, ELECTRICAL (9 pin) (Marked "HD10-9-16 P")	1
29	07-117700		GASKET, NINE PIN CONNECTOR	2
30	07-117800		MACHINE SCREW, PHILLIPS HEAD (#4-40 x 1", stainless steel)	8
31	03-731100		NUT, MACHINE (#4-40, stainless steel)	8
32	03-731200		ALARM, AUDIO	1
33	10-032700		GASKET, AUDIO ALARM	1
34	03-439000		CAPSULE, VAPOR (Corrosion inhibitor. Marked "VC2-1")	1
35	03-064000		TIE, CABLE (3.6" [92 mm] long)	A.R.
36	03-064100		TIE, CABLE (7.4" [188 mm] long)	A.R.
			MOUNT, CABLE TIE (Adhesive backed)	A.R.
			The following items are not included with the Platform Control Box.	
37	03-719800		SWITCH, TOGGLE (Steer Select. With 4 Wheel Steer option.) (3 1NT91-2. Two position, maintained contact, SPST)	1
38	03-719800		SWITCH, TOGGLE (For optional Lights) (3 1NT91-2. Two position, maintained contact, single pole, single throw)	1
39	03-506200		SEAL, TOGGLE SWITCH (for use with optional switches, above)	A.R.
40	03-730600		SWITCH, PUSH BUTTON (Green) (Override for optional Sensor Ring)	1
41	03-730800		BLOCK, CONTACT (Normally open)	1
42	10-263802		PLACARD, PLATFORM CONTROL (Lexan, French language)	1
	10-263803		PLACARD, PLATFORM CONTROL (Lexan, German language)	1
	10-272000		PLATE, PLATFORM CONTROL (Stencil-cut aluminum, in English. Replaces Lexan placard when Sandblast Package is fitted)	1
43	10-241400		SPACER (for aluminum control plate)	6
44	03-497900		PLUG, PLASTIC (1/2" dia., "Panel Seal", to fill unused toggle holes)	A.R.
45	03-731400		DRAIN/ VENT, CONTROL BOX (Fibreglass) (some earlier versions)	1

TITLE

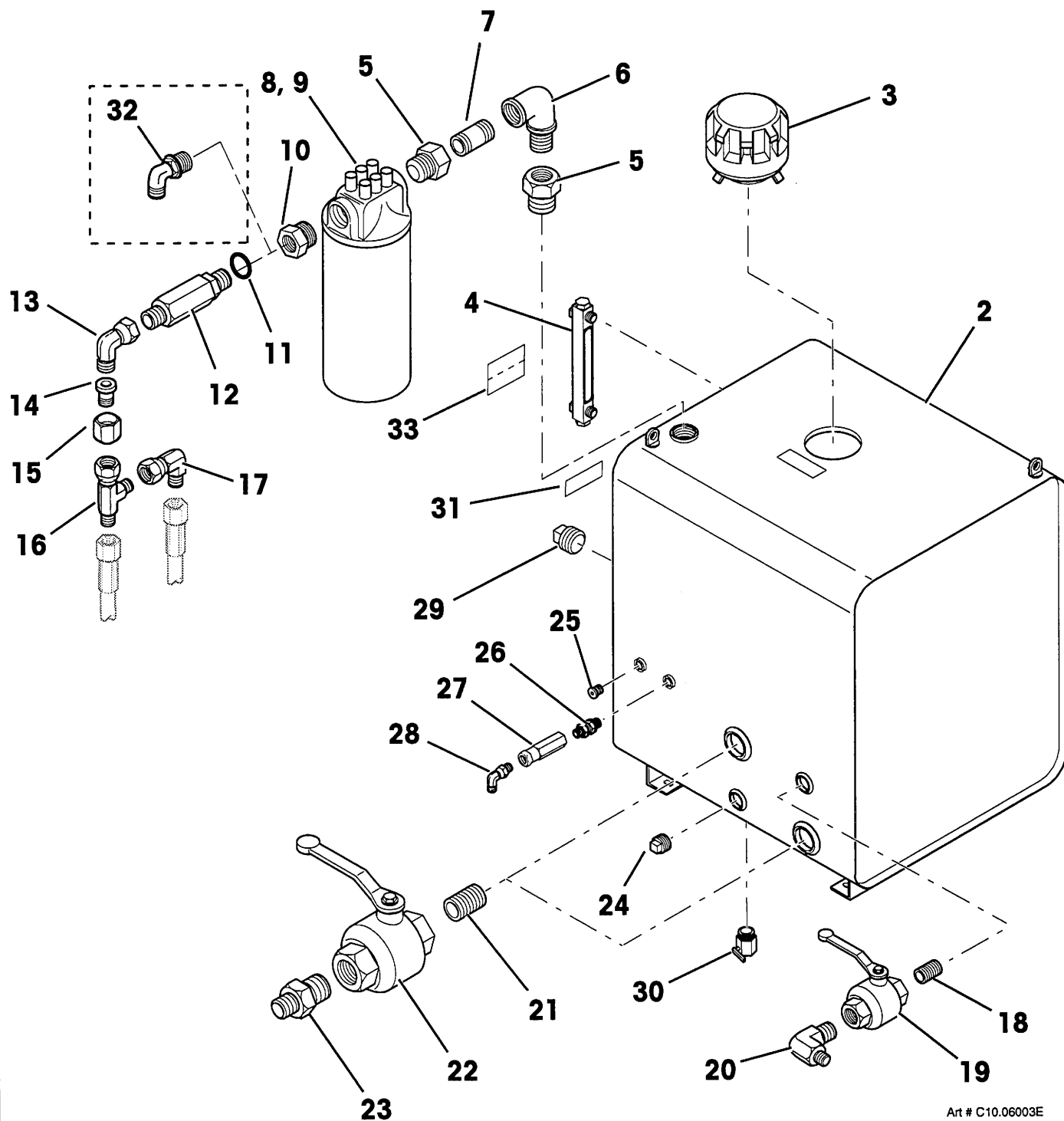
PLATFORM CONTROL BOX ASSEMBLY, RP 86

SECTION **C08.** PLATE NO. **203** PAGE **02** REV. **A** DATED **13 JUN., 1996** PART NO. **354 2490**


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PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2811		HYDRAULIC TANK ASSEMBLY (Current version. Earlier version was identified as 354 2810)	1
2	234 9000		TANK WELDMENT, HYDRAULIC	1
3	10-097800		CAP ASSEMBLY, HYDRAULIC TANK FILLER (includes 10 micron filter, breather and strainer)	1
4	10-032500		GAUGE, SIGHT (7" [17.8 cm] long)	1
5	06-217300		ADAPTER, "O"-RING TO FEMALE NPT (20-1-1/4 F50 G-S)	2
6	11-050021		90° STREET ELBOW (1-1/4")	1
7	11-303100		NIPPLE, PIPE (1-1/4" NPT, 4" long)	1
8	01-238000		FILTER, HYDRAULIC (Return line)	1
9	01-238001		CANISTER, FILTER (with 10 micron element)	1
10	06-092300		REDUCER/ EXPANDER (20-16 F50 G5-S)	1
11	01-040400		"O"-RING	1
12	01-015900		VALVE, CHECK (#16 SAE ports)	1
13	06-052000		90° ELBOW, SWIVEL NUT (16 C6X-S)	1
14	06-058000		NUT, TUBE (16 BTX-S)	1
15	06-061100		REDUCER, TUBE END (16-12 TRTX-S)	1
16	06-054800		RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S)	1
17	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	1
18	11-020018		CLOSE NIPPLE (3/4" NPT x 1-3/8" long)	1
19	01-020600		VALVE, BALL (Shutoff valve) (3/4" NPT)	1
20	06-209400		90° ELBOW, MALE 37° TO NPT (8-12 CTX-S)	1
21	11-071500		CLOSE NIPPLE (1-1/2" NPT x 1-3/4" long)	2
22	01-063000		VALVE, BALL (Shutoff valve) (1-1/2" NPT)	2
23	06-218400		FITTING, STRAIGHT (24MP-24MJ)	2
24	11-075500		PLUG, SQUARE HEAD (3/4" NPT)	1
25	06-095000		PLUG, HEX SOCKET "O"-RING (6 HP50N-S)	1
26	06-096100		UNION (6 F50 F50-S)	1
27	01-018900		VALVE, FLOW CONTROL (#6 SAE ports) (Earlier versions used Poppet Check Valve 01-020800)	1
28	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S) (Earlier versions used fitting 06-044400 [4-6 C50X])	1
29	11-075100		PLUG, SQUARE HEAD (1-1/2" NPT)	1
30	01-015800		DRAIN COCK (Brass, 1/2" NPT)	1
31	10-151300		PLACARD, "HYDRAULIC FLUID ONLY" (supplied with tank ass'y.)	2
	10-151302		PLACARD, "LIQUIDE HYDRAULIQUE SEULEMENT" (French)	
	10-151303		PLACARD, "NUR HYDRAULIKÖL" (German language)	
The following item is not included with the Hydraulic Tank Assembly:				
32	06-045800		90° ELBOW, "O"-RING TO 37° (16 C50X) (for earlier versions)	1
33	10-267703		DECAL, "MAX./ MIN. HYD. ÖLSTAND" (Two part, Hydraulic fluid level, in German language)	1
TITLE			HYDRAULIC TANK ASSEMBLY, RP 86 AND T-80	
SECTION	C10.	PLATE NO.	06	PAGE 01
REV.	A	DATED	13 JUN., 1996	PART NO.
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Art # C10.06003E



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TITLE

HYDRAULIC TANK ASSEMBLY, RP 86 AND T-80

PART
NO.

REV. **A**

DATED
13 JUN., 1996

SECTION

C10.

PLATE NO.

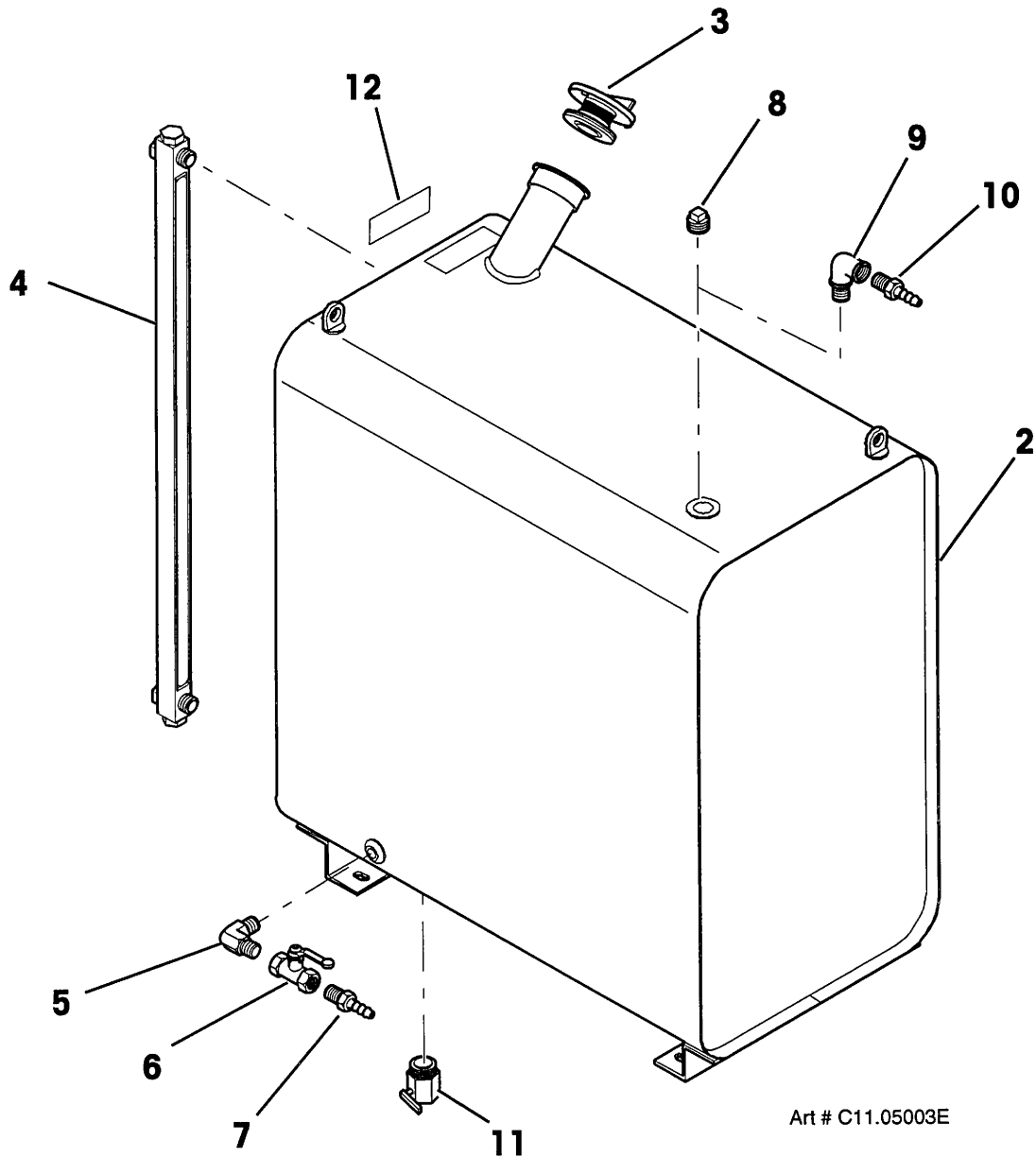
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PAGE

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Earlier Version



Art # C11.05003E



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TITLE

FUEL TANK ASSEMBLY, RP 86 AND T-80

PART NO.

REV. A

DATED
13 JUN., 1996

SECTION

C11.

PLATE NO.

05

PAGE

01

PARTS LIST

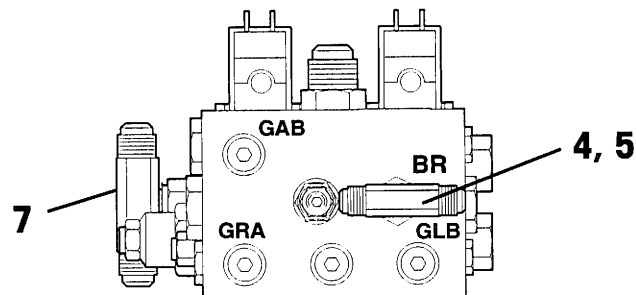
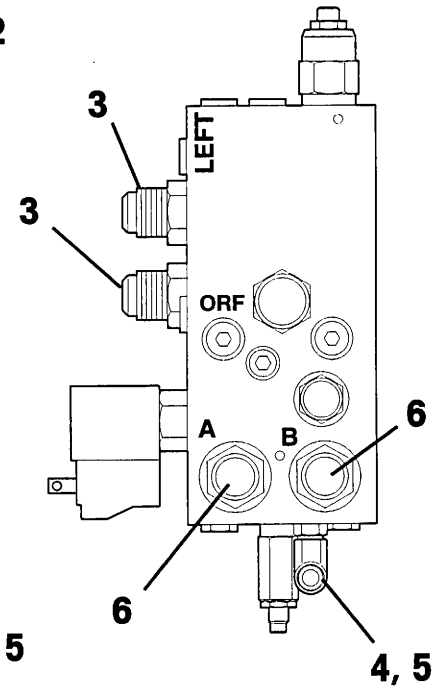
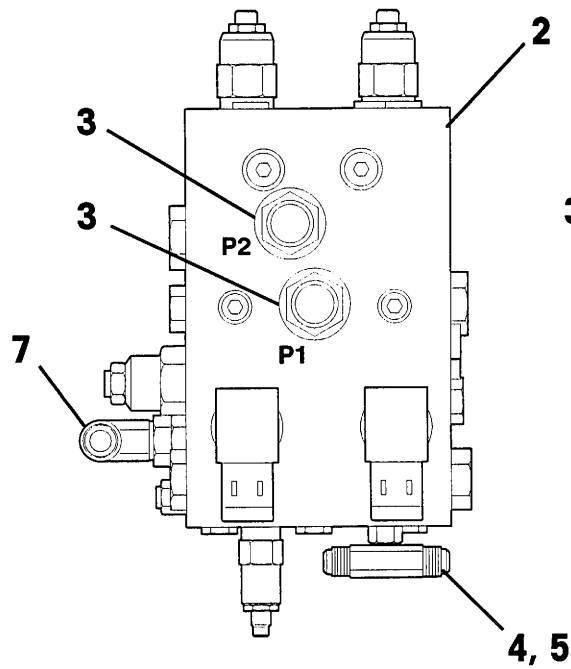
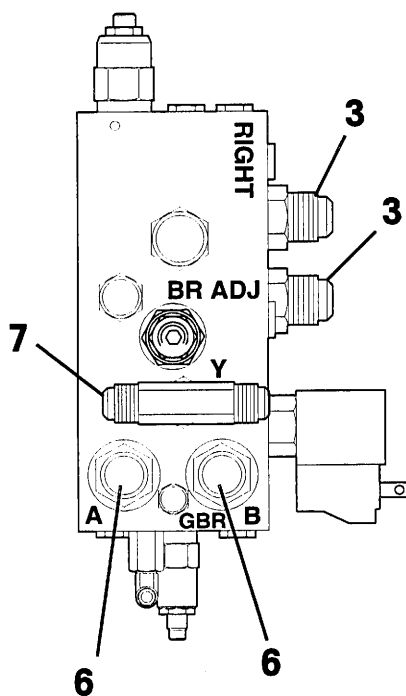
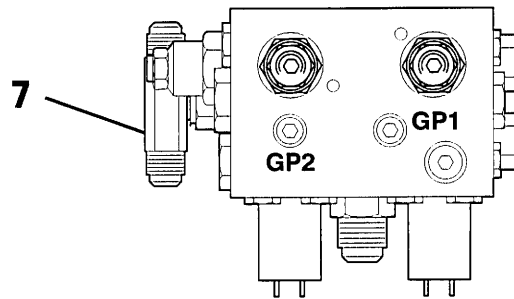
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TITLE DRIVE VALVE ASSEMBLY (TWO WHEEL DRIVE), RP 86 AND T-80

SECTION	C12	PLATE NO.	201	PAGE	01	REV.	A	DATED	14 JUN., 1996	PART NO.	354 3000
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Alt # C12.20102E



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TITLE

DRIVE VALVE ASSEMBLY (TWO WHEEL DRIVE), RP 86 AND T-80

PART NO.

354 3000

REV.

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DATED

14 JUN., 1996

SECTION

C12.

PLATE NO.

201

PAGE

01

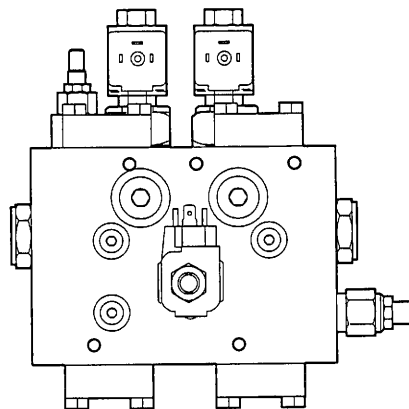
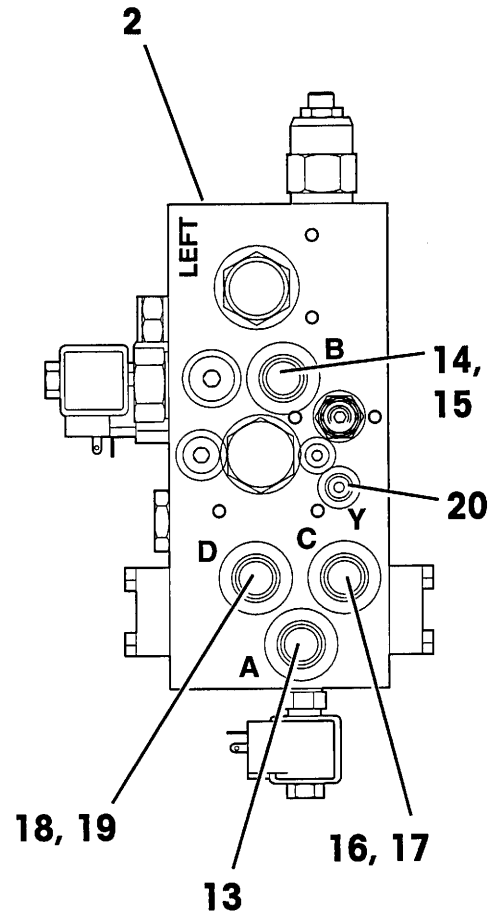
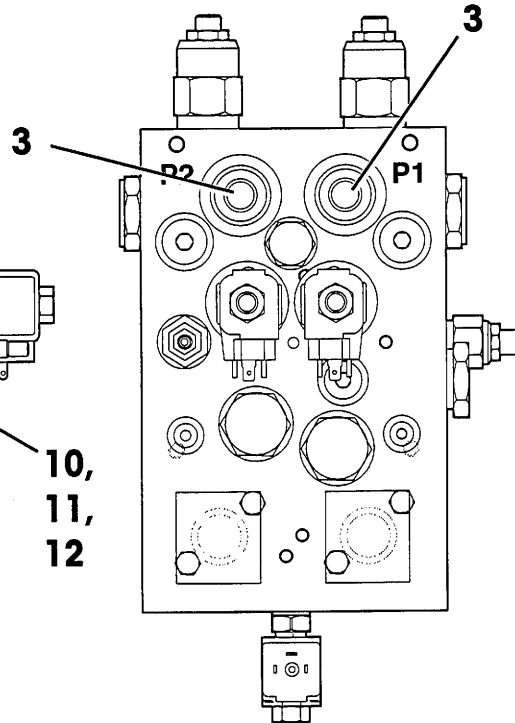
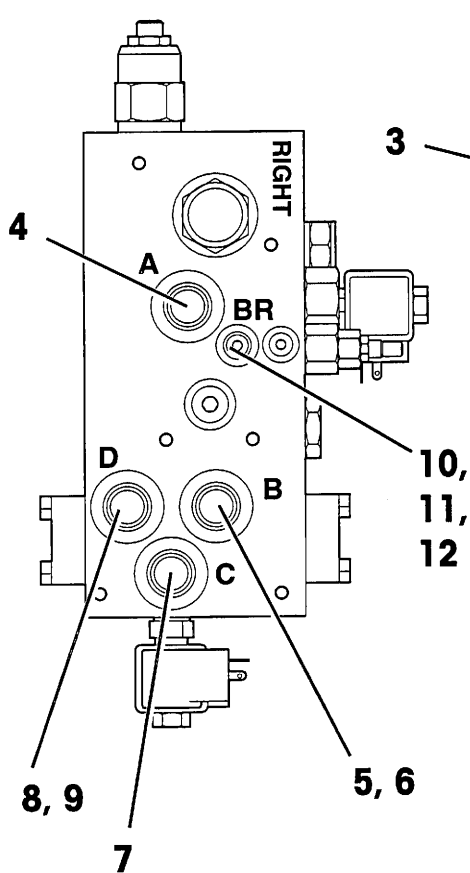
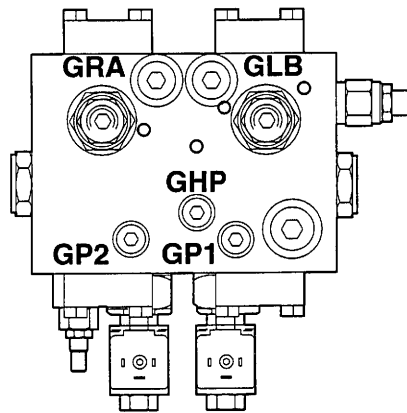
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 3010		DRIVE VALVE ASSEMBLY (For Four Wheel Drive versions)	1
2	01-238400		VALVE BLOCK ASSEMBLY, DRIVE	1
3	06-041400		Ports "P1" and "P2": ADAPTER, "O"-RING TO 37° (16 F50X-S)	2
4	06-040800		Port "A" (Right side): ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
5	06-040800		Port "B" (Right side): ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
6	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	1
7	06-040800		Port "C" (Right side): ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
8	06-043300		Port "D" (Right side): ADAPTER (LONG), "O"-RING TO 37° (12 FF50X-S)	1
9	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	1
10	06-090300		Port "BR" (Brake): REDUCER/ EXPANDER (6-4 F50 G5-S)	1
11	06-048300		RUN TEE, MALE "O"-RING TO 37° (4 R50X-S)	1
12	06-051300		90° ELBOW, SWIVEL NUT (4 C6X-S)	1
13	06-040800		Port "A" (Left side): ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
14	06-040800		Port "B" (Left side): ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
15	06-053300		45° ELBOW, SWIVEL NUT (12 V6X-S)	1
16	06-043300		Port "C" (Left side): ADAPTER (LONG), "O"-RING TO 37° (12 FF50X-S)	1
17	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	1
18	06-040800		Port "D" (Left side): ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
19	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	1
20	06-039800		Port "Y" (Drain): ADAPTER, "O"-RING TO 37° (6 F50X-S)	1
			The following items are not included with the Drive Valve Assembly:	
21	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	4
22	07-062016		WASHER, FLAT (3/8")	4
23	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4

TITLE **DRIVE VALVE ASSEMBLY (FOUR WHEEL DRIVE), RP 86 AND T-80**

SECTION **C12.** | PLATE NO. **202** | PAGE **01** | REV. **A** | DATED **14 JUN., 1996** | PART NO. **354 3010**

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Art # C12.20201E



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TITLE

DRIVE VALVE ASSEMBLY (FOUR WHEEL DRIVE), RP 86 AND T-80

PART NO.

354 3010

REV.

A

DATED

14 JUN., 1996

SECTION

C12.

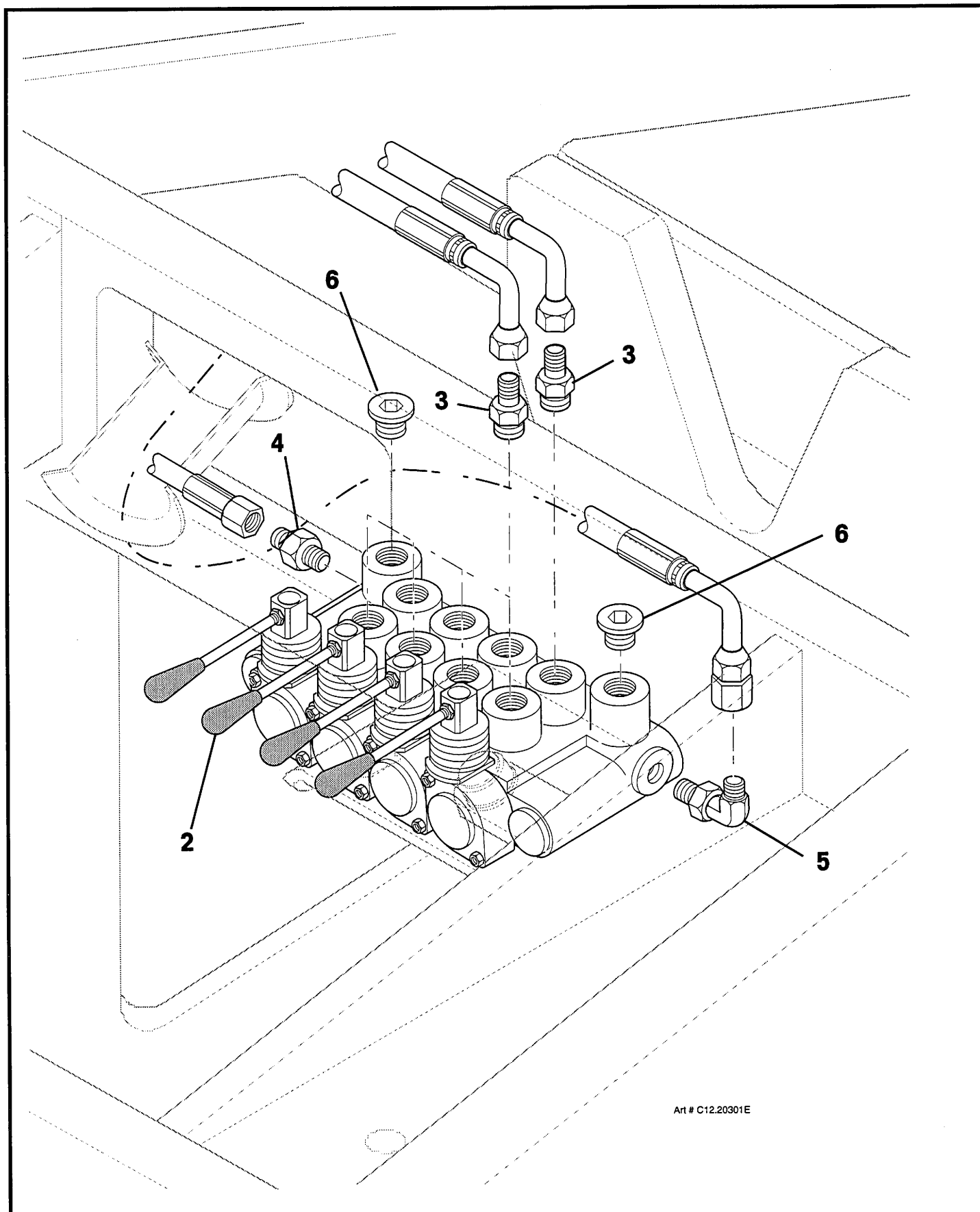
PLATE NO.

202

PAGE

01

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Art # C12.20301E



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TITLE

AXLE LIFT/ EXTEND VALVE, RP 86 AND T-80

PART NO. **354 4860**

REV. **A**

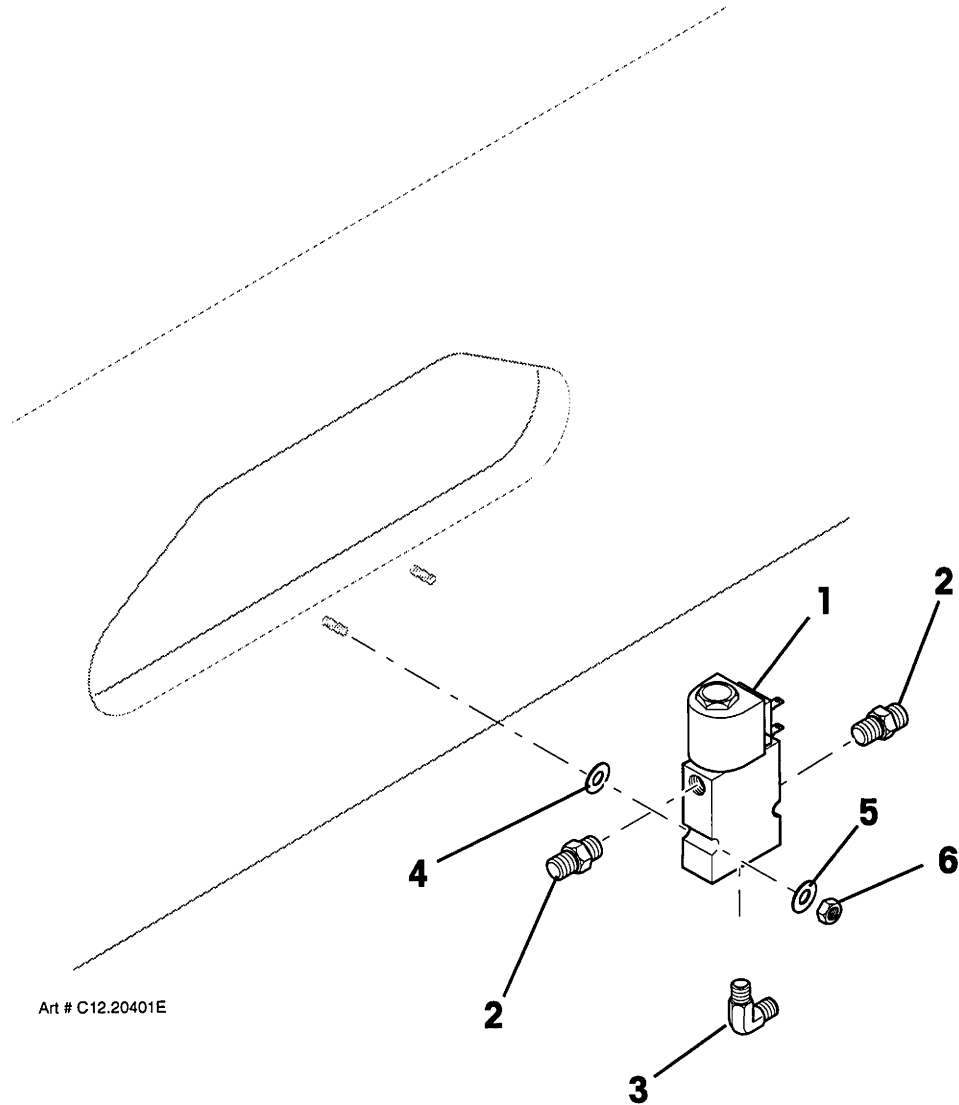
DATED
14 JUN., 1996

SECTION **C12.**

PLATE NO. **203**

PAGE **01**

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TITLE

AXLE ENABLE VALVE, RP 86 AND T-80

PART
NO.

REV.

A

DATED

14 JUN., 1996

SECTION

C12.

PLATE NO.

204

PAGE

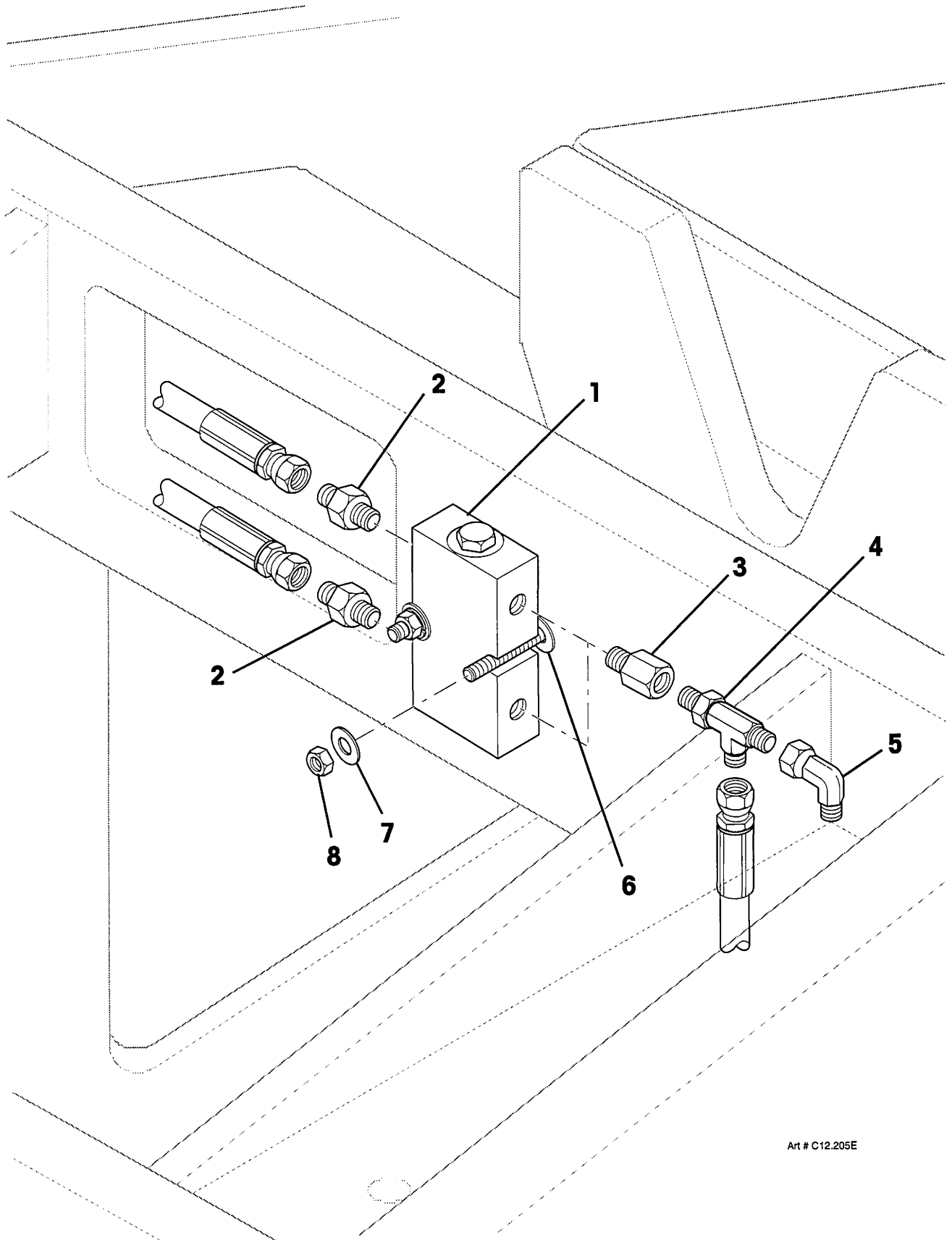
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SECTION	C12.	PLATE NO.	205	PAGE	01	REV.	A	DATED	14 JUN., 1996	PART NO.
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Art # C12.205E



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TITLE

AXLE CHECK VALVE (STEER AXLE), RP 86 AND T-80

PART
NO.

REV.

A

DATED

14 JUN., 1996

SECTION

C12.

PLATE NO.

205

PAGE

01

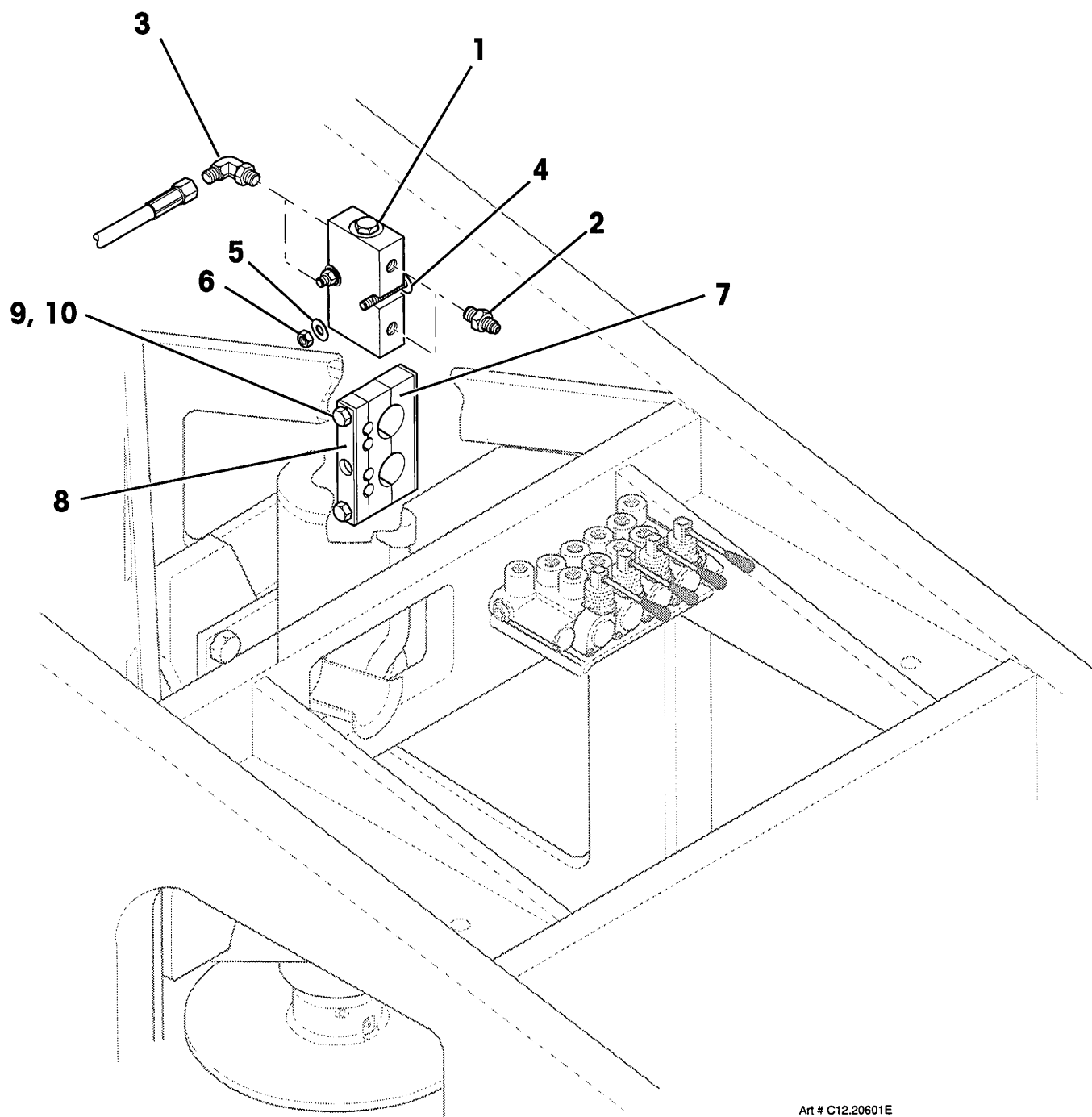
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AXLE CHECK VALVE (NON-STEER AXLE), RP 86 AND T-80

REV. A	DATED 14 JUN., 1996	PART NO.
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Art # C12.20601E



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TITLE

AXLE CHECK VALVE (NON-STEER AXLE), RP 86 AND T-80

PART
NO.

REV. A

DATED
14 JUN., 1996

SECTION C12.

PLATE NO. 206

PAGE 01

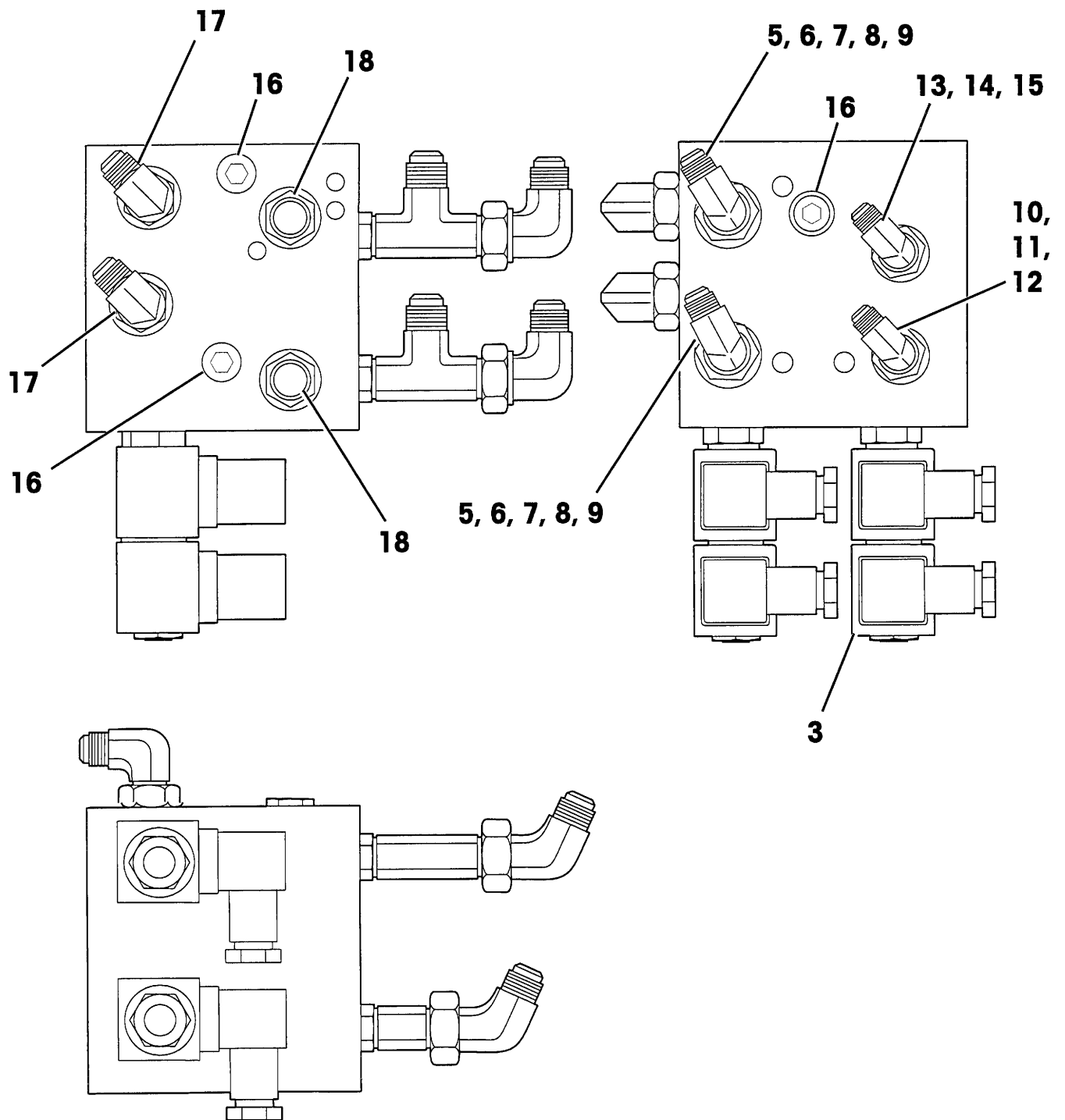
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 4811 354 4810		PLATFORM LEVEL/ ROTATE VALVE ASSEMBLY Current version (For all RP 86 and T-80 except as listed below) Earlier version (For RP 86 S/N AXA 00147, AXA 00148 and AUA 00155 only)	1
2	01-238100		MANIFOLD, PLATFORM LEVEL/ ROTATE VALVE	1
3	01-238101		COIL, ELECTRICAL (12 Volt DC, DIN connection)	4
4	01-238102		CONNECTOR, DIN	4
5	06-090300		REDUCER/ EXPANDER (6-4 F50 G5-S)	2
6	06-048300		RUN TEE, MALE "O"-RING TO 37° (4 R50X-S)	2
7	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S) (for current version)	2
8	06-051300		90° ELBOW, SWIVEL NUT (4 C6X-S) (for current version only)	2
9	06-046800		45° ELBOW, "O"-RING TO 37° (4 V50X-S) (for current version)	2
10	06-090300		REDUCER/ EXPANDER (6-4 F50 G5-S)	1
11	06-051300		90° ELBOW, SWIVEL NUT (4 C6X-S) (for current version only) (Earlier version used Elbow 06-044300 [4 C50X-S])	1
12	06-046800		45° ELBOW, "O"-RING TO 37° (4 V50X-S) (for current version)	1
13	06-090300		REDUCER/ EXPANDER (6-4 F50 G5-S) (Earlier version used Elbow 06-044400 [4-6 C50X-S])	1
14	06-051300		90° ELBOW, SWIVEL NUT (4 C6X-S) (for current version only)	1
15	06-046800		45° ELBOW, "O"-RING TO 37° (4 V50X-S) (for current version)	1
16	06-094800		PLUG, HEX SOCKET "O"-RING (4 HP50N-S)	3
17	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S) (for current version only) (Earlier version used two Elbows 06-044600 [6 C50X-S])	2
18	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	2

TITLE **PLATFORM LEVEL/ ROTATE VALVE ASSEMBLY, RP 86 AND T-80**

SECTION **C12.** | PLATE NO. **207** | PAGE **01** | REV. **A** | DATED **14 JUN., 1996** | PART NO.

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Art #C12.207E



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TITLE

PLATFORM LEVEL/ ROTATE VALVE ASSEMBLY, RP 86 AND T-80

PART
NO.

REV. **A**

DATED
14 JUN., 1996

SECTION

C12.

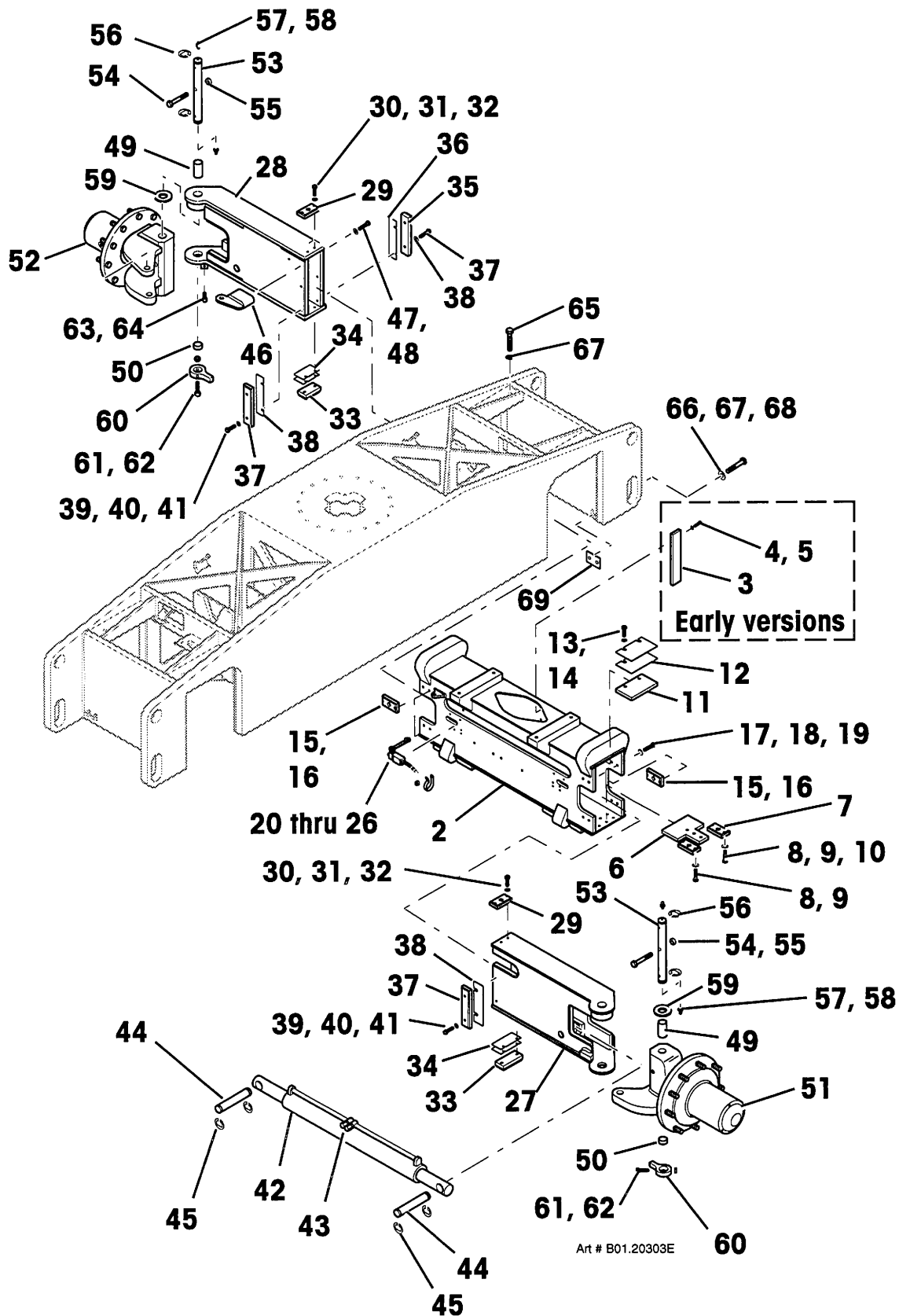
PLATE NO.

207

PAGE

01

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 5750		FRONT (STEER) AXLE ASSEMBLY (RP 86 and T-80) For Two Wheel Drive versions (Standard)	1
2			AXLE, OUTER (Center section) (later version will be provided)	1
	235 2390		Earlier version (Five bolt heads for axle inner stop are visible down the front face centerline)	
	235 6280		Later version (No bolt heads down the centerline)	
3	235 1220		STOP, AXLE INNER (For earlier versions. Later is welded on.)	1
4	07-004047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 8)	5
5	07-065016		WASHER, HELICAL LOCK (3/8")	5
6	235 2510		STOP, AXLE OUTER (at bottom)	2
7	218 7740		PAD, STEER AXLE	4
8	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	14
9	07-065018		WASHER, HELICAL LOCK (1/2")	14
10	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	8
11	235 2490		PAD, OUTER REST (at top) (5.5" x 6.25" [140 x 159 mm])	2
12			SHIM, OUTER REST PAD (5.5" x 7.5" [140 x 191 mm])	A.R.
	235 2900		12 Ga (.1046" [2.6 mm] thick)	
	235 2910		16 Ga (.0598" [1.5 mm] thick)	
13	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	4
14	07-065018		WASHER, HELICAL LOCK (1/2")	4
15			PAD, OUTER SIDE	8
	235 6290		Earlier version (2" x 4" x .88" [51 x 102 x 22 mm] Nylon)	
	235 8900		Later version (2" x 4" x .75" [51 x 102 x 19 mm] Steel)	
16			SHIM (for later, steel pad) (2" x 4" [51 x 102 mm])	A.R.
	235 2280		12 Ga (.1046" [2.6 mm] thick)	
	235 2290		16 Ga (.0598" [1.5 mm] thick)	
17	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	16
18	07-065018		WASHER, HELICAL LOCK (1/2")	16
19	07-047018		NUT, HEX JAM (1/2"-13, Grade 5) (for earlier, nylon pad)	16
20	03-735600		SWITCH, LIMIT (Positive break, side rotary)	2
21	03-735700		ARM, LIMIT SWITCH (Fixed roller, 1.75" [44 mm] dia.)	2
22	03-085200		WIRE, ELECTRICAL (SJO, 2 conductor, #16 Ga.) (Limit switch)	A.R.
23	03-041000		GRIP, CORD (Plastic, 1/2", with .38" to .44" seal)	2
24	07-008355		CAP SCREW, SOCKET HEAD (#10-24x 1-1/2", Grade 8)	8
25	10-060600		CLAMP, LOOP (3/8", G-6)	5
26	07-050014		NUT, LOCK (1/4"-20, Grade 5)	5
TITLE			FRONT (STEER) AXLE ASSEMBLY (TWO WHEEL DRIVE)	
SECTION	C13.	PLATE NO.	201	PAGE 01
REV.	A	DATED	21 JUN., 1996	PART NO. 354 5750
 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

FRONT (STEER) AXLE ASSEMBLY (TWO WHEEL DRIVE)

PART NO.

354 5750

REV.

A

DATED

21 JUN., 1996

SECTION

C13.

PLATE NO.

201

PAGE

01

PARTS LIST

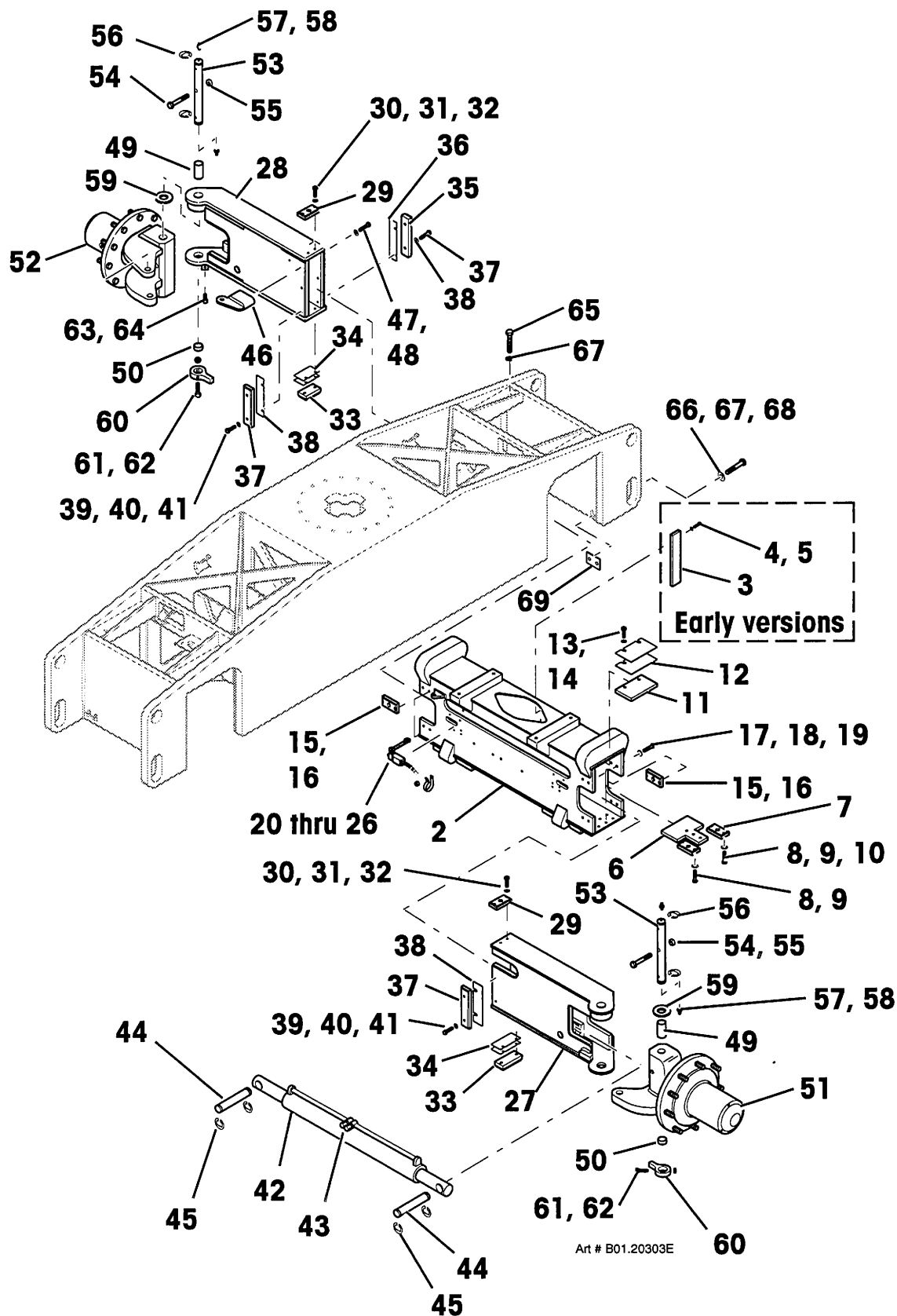
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
27	235 1400		FRONT (STEER) AXLE ASSEMBLY (Continued) AXLE, INNER (End section) (Right) Earlier version (used with center section 235 2390)	1
28	235 6420		Later version (used with center section 235 6280) AXLE, INNER (End section) (Left) Earlier version (used with center section 235 2390)	1
29	235 6350		Later version (used with center section 235 6280)	
30	235 1560		PAD, UPPER GUIDE (5.5" x 6.25" [140 x 159 mm])	2
31	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	4
32	07-065018		WASHER, HELICAL LOCK (1/2")	4
33	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	4
			PAD, INNER REST (at bottom)	2
34	235 2080		Earlier version (for end section 235 1400 or 235 1550)	
	235 6380		Later version (for end section 235 6420 or 235 6350)	
			SHIM, INNER REST PAD (4" x 6" [102 x 153 mm])	A.R.
35	235 2880		12 Ga (.1046" [2.6 mm] thick)	
	235 2890		16 Ga (.0598" [1.5 mm] thick)	
36	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
37	07-065018		WASHER, HELICAL LOCK (1/2")	4
			PAD, INNER SIDE (2" x 7" [51 x 178 mm])	4
	235 3850		Earlier version (Nylon)	
38	235 6460		Later version (Steel)	
			SHIM (for later, steel pad) (2" x 7" [51 x 178 mm])	A.R.
	235 3860		12 Ga (.1046" [2.6 mm] thick)	
39	235 3870		16 Ga (.0598" [1.5 mm] thick)	
40	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	8
41	07-065018		WASHER, HELICAL LOCK (1/2")	8
	07-047018		NUT, HEX JAM (1/2"-13, Grade 5) (for earlier, nylon pad)	8

TITLE

FRONT (STEER) AXLE ASSEMBLY (TWO WHEEL DRIVE)

SECTION **C13.** | PLATE NO. **201** | PAGE **02** | REV. **A** | DATED **21 JUN., 1996** | PART NO. **354 5750**

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TITLE

FRONT (STEER) AXLE ASSEMBLY (TWO WHEEL DRIVE)

PART NO.

354 5750

REV. A

DATED 21 JUN., 1996

SECTION

C13.

PLATE NO.

201

PAGE

02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
42	04-055100		FRONT (STEER) AXLE ASSEMBLY (Continued)	1
43	06-039500		CYLINDER, AXLE EXTEND	2
44			ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	2
	235 1490		PIN, AXLE EXTEND CYLINDER	
	235 6370		Earlier version (1" [25 mm] x 4.06" [103 mm] long)	
			Later version (1" [25 mm] x 4.62" [117 mm] long)	
45	08-040600		RING, RETAINING (1")	4
46	235 2140		BRACKET, STEER CYLINDER MOUNTING	1
47	07-090022		CAP SCREW, HEX HEAD (1"-8 x 2-3/4", Grade 5)	2
48	07-090010		WASHER, HELICAL LOCK (1")	2
49	235 2110		BUSHING, SPINDLE PIN (Upper)	2
50	235 2100		BUSHING, SPINDLE PIN (Lower)	2
51	354 2880	C01.201	SPINDLE ASSEMBLY (Right hand)	1
52	354 2890	C01.201	SPINDLE ASSEMBLY (Left hand)	1
53	235 1510		PIN, SPINDLE (1.5" [38 mm] dia.)	2
			17.25" (438 mm) long (without Steer Stop [Items 60 - 64])	
54	07-003099		17.88" (454 mm) long (when Steer Stop is fitted)	
			CAP SCREW, HEX HEAD (1/2"-13 x 4-3/4", Grade 5)	2
55	07-058400		NUT, LOCK (1/2"-13, Grade 8)	2
56	08-040900		RING, RETAINING (1-1/2")	4
57	08-051300		FITTING, GREASE (1/8", 90°)	2
58	08-066300		CAP, GREASE FITTING (White plastic)	2
59	08-014100		WASHER, THRUST (1-1/2" I.D., 3-1/2" O.D.)	2
60	235 6780		COLLAR, STEER STOP (on some earlier RP 86 versions)	2
61	07-003053		CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5)	2
62	07-040016		NUT, HEX (3/8"-16, Grade 5)	2
63	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
64	07-047018		NUT, JAM (1/2"-13, Grade 5)	4
			The following items are not part of the Front Axle Assembly:	
65	07-004154		CAP SCREW, HEX HEAD (3/4"-10 x 3-1/4", Grade 8)	8
66	07-004152		CAP SCREW, HEX HEAD (3/4"-10 x 2-3/4", Grade 8)	8
67	07-065022		WASHER, HELICAL LOCK (3/4")	16
68	07-061022		WASHER, FLAT (3/4", SAE, hardened)	16
69			SHIM, AXLE MOUNTING (Side) (2.0" x 4.5" [51 x 114 mm])	A.R.
	235 8600		.375" (9.5 mm) thick	
	235 8610		.250" (6.4 mm) thick	
	235 8620		12 Ga (.1046" [2.6 mm] thick)	
	235 8630		16 Ga (.0598" [1.5 mm] thick)	

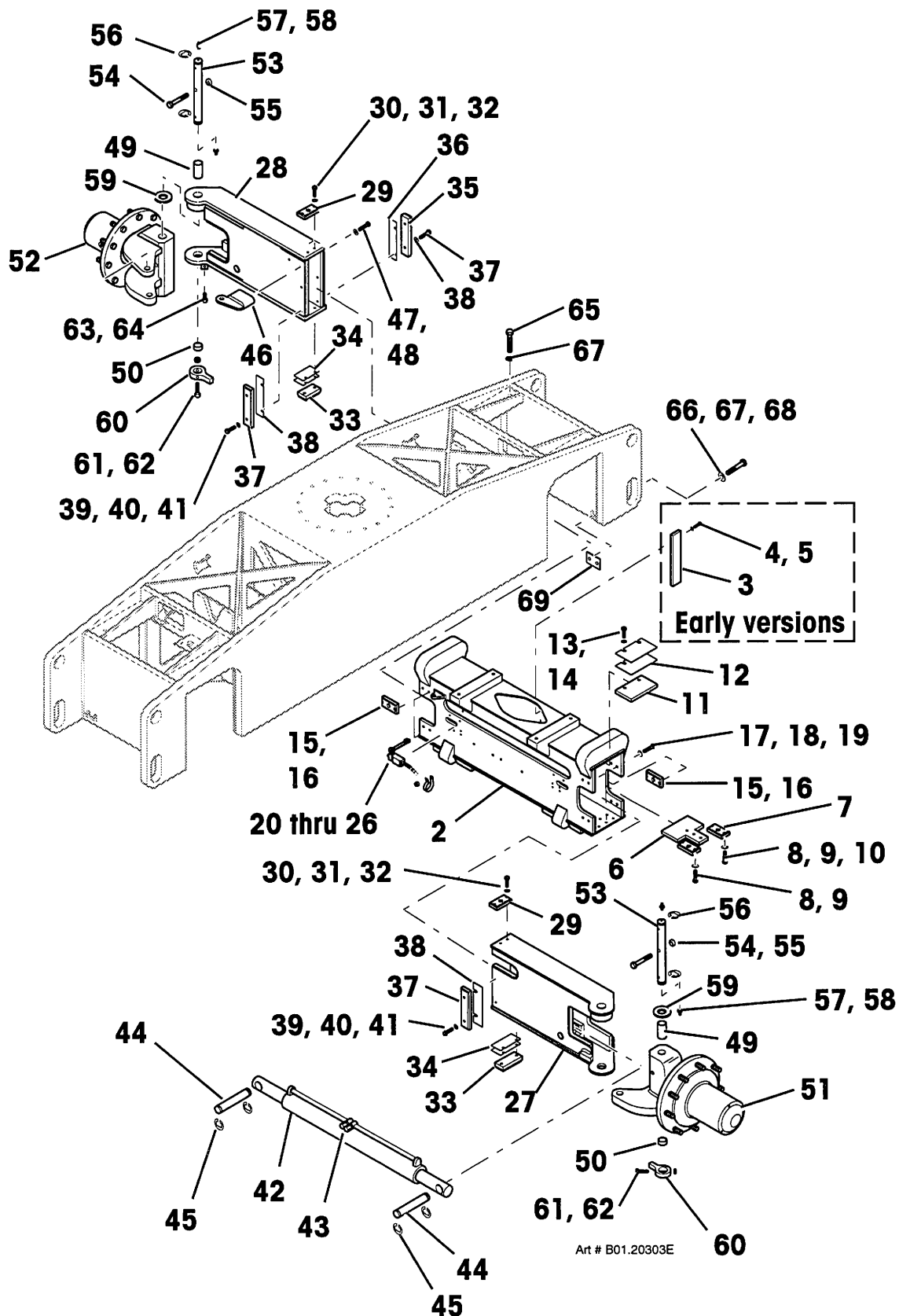
TITLE

FRONT (STEER) AXLE ASSEMBLY (TWO WHEEL DRIVE)

SECTION **C13.** | PLATE NO. **201** | PAGE **03** | REV. **A** | DATED **21 JUN., 1996** | PART NO. **354 5750**



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TITLE

FRONT (STEER) AXLE ASSEMBLY (TWO WHEEL DRIVE)

PART NO.

354 5750

REV.

A

DATED

21 JUN., 1996

SECTION

C13.

PLATE NO.

201

PAGE

03

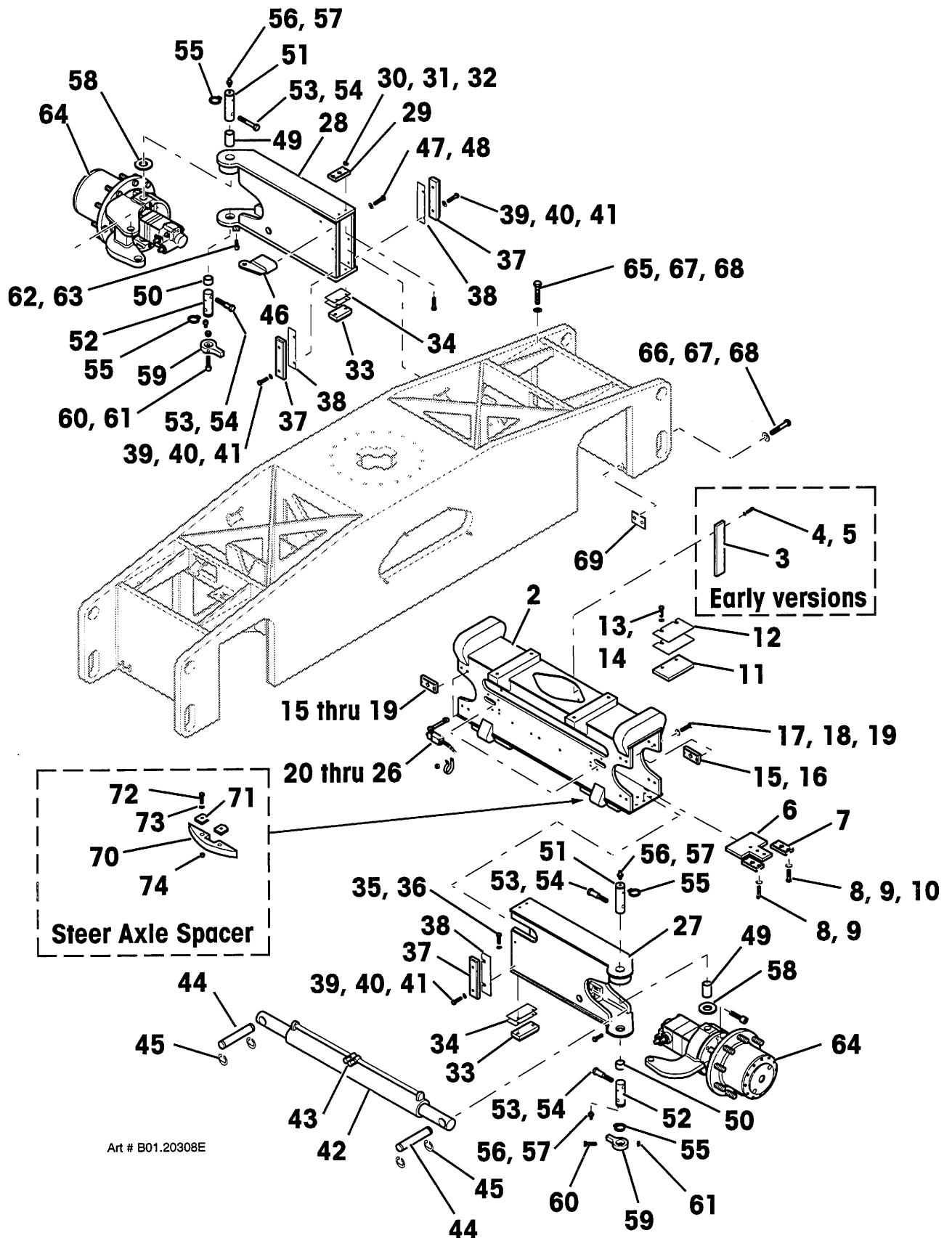
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 5810		FRONT (STEER) AXLE ASSEMBLY (RP 86 and T-80) For Four Wheel Drive versions (Optional)	1
2	235 6280		AXLE, OUTER (Center section) (Note: On some earlier versions, the axle inner stop bolts to the axle; five bolts are visible down the front face centerline. Items 3 through 5 are for these earlier machines. On later versions, the stop is welded in place.)	1
3	235 1220		STOP, AXLE INNER (For earlier versions. Later is welded on.)	1
4	07-004047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 8)	5
5	07-065016		WASHER, HELICAL LOCK (3/8")	5
6	235 2510		STOP, AXLE OUTER (at bottom)	2
7	218 7740		PAD, STEER AXLE	4
8	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	14
9	07-065018		WASHER, HELICAL LOCK (1/2")	14
10	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	8
11	235 2490		PAD, OUTER REST (at top) (5.5" x 6.25" [140 x 159 mm])	2
12	235 2900 235 2910		SHIM, OUTER REST PAD (5.5" x 7.5" [140 x 191 mm]) 12 Ga (.1046" [2.6 mm] thick) 16 Ga (.0598" [1.5 mm] thick)	A.R.
13	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	4
14	07-065018		WASHER, HELICAL LOCK (1/2")	4
15			PAD, OUTER SIDE	8
16	235 6290 235 8900		Earlier version (2" x 4" x .88" [51 x 102 x 22 mm] Nylon) Later version (2" x 4" x .75" [51 x 102 x 19 mm] Steel) SHIM (for later, steel pad) (2" x 4" [51 x 102 mm])	A.R.
17	235 2280 235 2290 07-003086		12 Ga (.1046" [2.6 mm] thick) 16 Ga (.0598" [1.5 mm] thick) CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	16
18	07-065018		WASHER, HELICAL LOCK (1/2")	16
19	07-047018		NUT, HEX JAM (1/2"-13, Grade 5) (for earlier, nylon pad)	16
20	03-735600		SWITCH, LIMIT (Positive break, side rotary)	2
21	03-735700		ARM, LIMIT SWITCH (Fixed roller, 1.75" [44 mm] dia.)	2
22	03-085200		WIRE, ELECTRICAL (SJO, 2 conductor, #16 Ga.) (Limit switch)	A.R.
23	03-041000		GRIP, CORD (Plastic, 1/2", with .38" to .44" seal)	2
24	07-008355		CAP SCREW, SOCKET HEAD (#10-24x 1-1/2", Grade 8)	8
25	10-060600		CLAMP, LOOP (3/8", G-6)	5
26	07-050014		NUT, LOCK (1/4"-20, Grade 5)	5

TITLE FRONT (STEER) AXLE ASSEMBLY (FOUR WHEEL DRIVE)

SECTION C13. PLATE NO. 202 PAGE 01 REV. A DATED 21 JUN., 1996 PART NO. 354 5810

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Art # B01.20308E



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TITLE

FRONT (STEER) AXLE ASSEMBLY (FOUR WHEEL DRIVE)

PART NO.

354 5810

REV. A

DATED 21 JUN., 1996

SECTION

C13.

PLATE NO.

202

PAGE

01

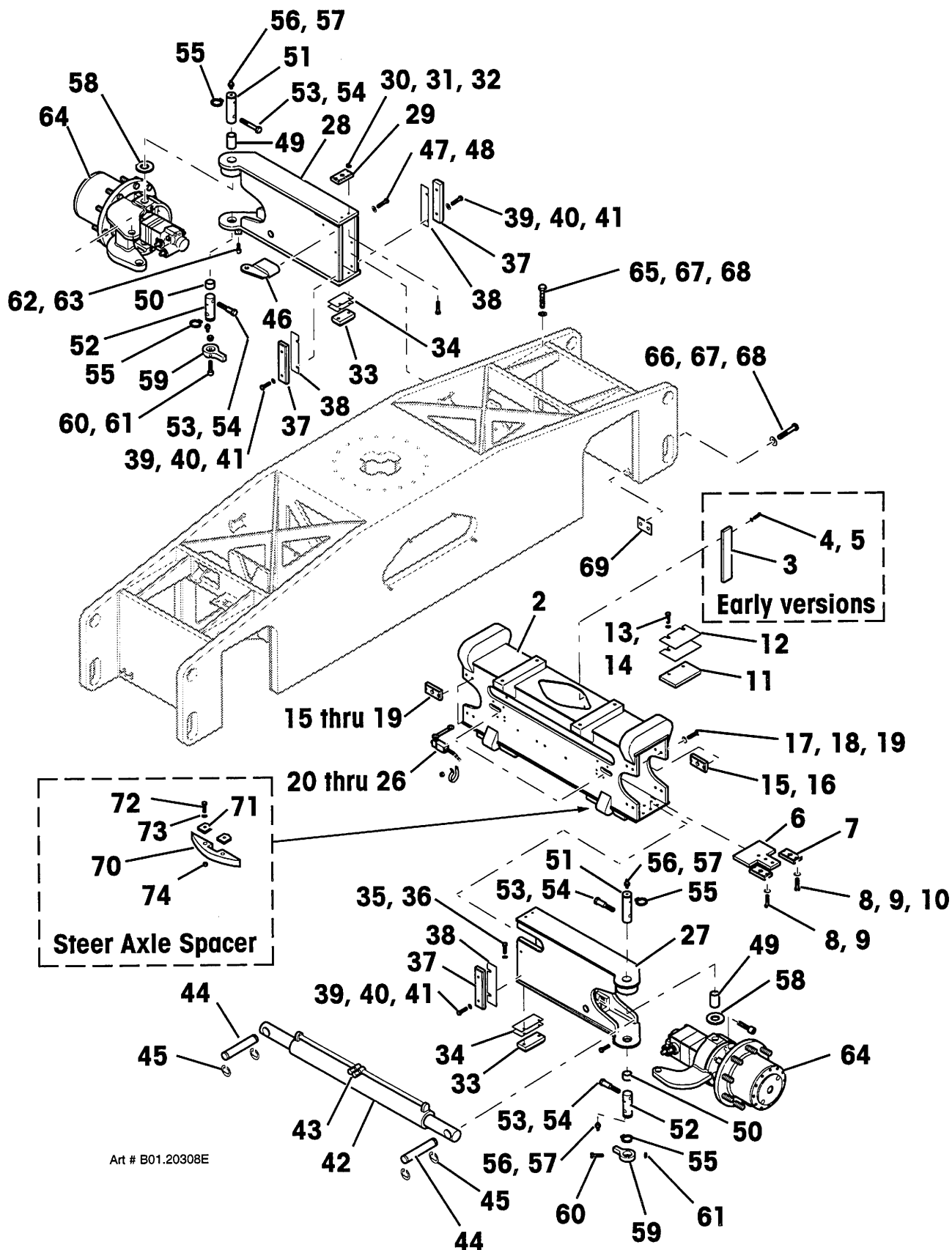
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			FRONT (STEER) AXLE ASSEMBLY (Continued)	
27	235 6420		AXLE, INNER (End section) (Right)	1
28	235 6350		AXLE, INNER (End section) (Left)	1
29	235 1560		PAD, UPPER GUIDE (4.0" x 7.12" [102 x 181 mm])	2
30	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	4
31	07-065018		WASHER, HELICAL LOCK (1/2")	4
32	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	4
33	235 6380		PAD, INNER REST (at bottom)	2
34			SHIM, INNER REST PAD (4" x 6" [102 x 153 mm])	A.R.
	235 2880		12 Ga (.1046" [2.6 mm] thick)	
	235 2890		16 Ga (.0598" [1.5 mm] thick)	
35	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
36	07-065018		WASHER, HELICAL LOCK (1/2")	4
37			PAD, INNER SIDE (2" x 7" [51 x 178 mm])	4
	235 3850		Earlier version (Nylon)	
	235 6460		Later version (Steel)	
38			SHIM (for later, steel pad) (2" x 7" [51 x 178 mm])	A.R.
	235 3860		12 Ga (.1046" [2.6 mm] thick)	
	235 3870		16 Ga (.0598" [1.5 mm] thick)	
39	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	8
40	07-065018		WASHER, HELICAL LOCK (1/2")	8
41	07-047018		NUT, HEX JAM (1/2"-13, Grade 5) (for earlier, nylon pad)	8
42	04-055100		CYLINDER, AXLE EXTEND	1
43	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	2
44			PIN, AXLE EXTEND CYLINDER	2
	235 1490		Earlier version (1" [25 mm] x 4.06" [103 mm] long)	
	235 6370		Later version (1" [25 mm] x 4.62" [117 mm] long)	
45	08-040600		RING, RETAINING (1")	4

TITLE FRONT (STEER) AXLE ASSEMBLY (FOUR WHEEL DRIVE)

SECTION C13. PLATE NO. 202 PAGE 02 REV. A DATED 21 JUN., 1996 PART NO. 354 5810


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TITLE

FRONT (STEER) AXLE ASSEMBLY (FOUR WHEEL DRIVE)

PART NO.

354 5810

REV.

A

DATED

21 JUN., 1996

SECTION

C13.

PLATE NO.

202

PAGE

02

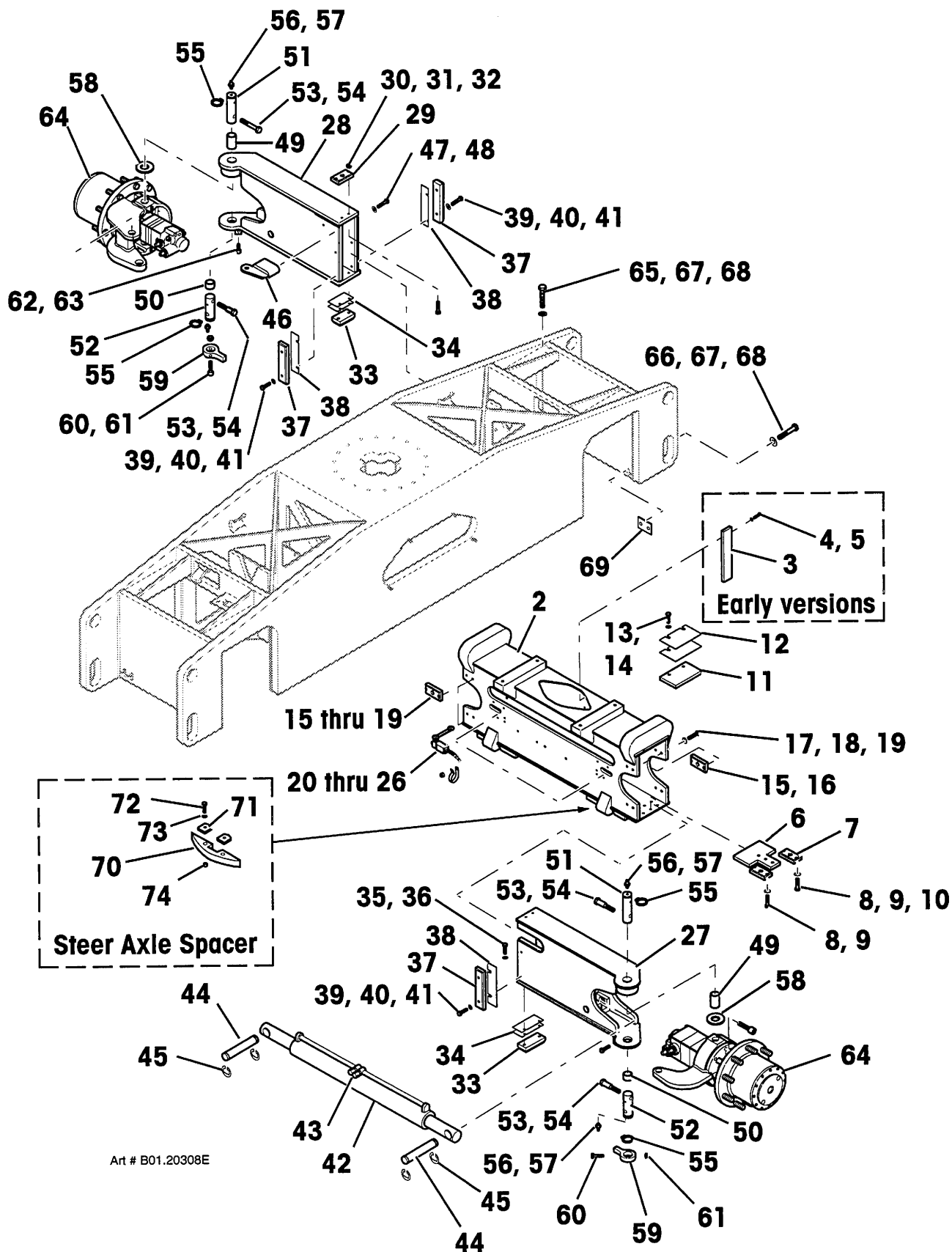
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
46	235 2140		FRONT (STEER) AXLE ASSEMBLY (Continued)	1
47	07-090022		BRACKET, STEER CYLINDER MOUNTING	2
48	07-090010		CAP SCREW, HEX HEAD (1"-8 x 2-3/4", Grade 5)	2
49	235 2110		WASHER, HELICAL LOCK (1")	2
50	235 2100		BUSHING, SPINDLE PIN (Upper)	2
51	235 6580		BUSHING, SPINDLE PIN (Lower)	2
52	235 6710		PIN, SPINDLE (Upper)	2
53	07-003051		PIN, SPINDLE (Lower)	4
54	07-065016		CAP SCREW, HEX HEAD (3/8"-16 x 2-1/2", Grade 5)	4
55	08-040900		WASHER, HELICAL LOCK (3/8")	4
56	08-051300		RING, RETAINING (1-1/2")	2
57	08-066300		FITTING, GREASE (1/8", 90°)	2
58	08-014100		CAP, GREASE FITTING (White plastic)	2
59	235 6780		WASHER, THRUST (1-1/2" I.D., 3-1/2" O.D.)	2
60	07-003053		COLLAR, STEER STOP	2
61	07-040016		CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5)	2
62	07-003087		NUT, HEX (3/8"-16, Grade 5)	4
63	07-047018		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
64	354 3070	C01.202	NUT, JAM (1/2"-13, Grade 5)	1
	354 3080	C01.202	SPINDLE ASSEMBLY (Right hand)	1
			SPINDLE ASSEMBLY (Left hand)	
			The following items are not part of the Front Axle Assembly:	
65	07-004154		CAP SCREW, HEX HEAD (3/4"-10 x 3-1/4", Grade 8)	8
66	07-004152		CAP SCREW, HEX HEAD (3/4"-10 x 2-3/4", Grade 8)	8
67	07-065022		WASHER, HELICAL LOCK (3/4")	16
68	07-061022		WASHER, FLAT (3/4", SAE, hardened)	16
69			SHIM, AXLE MOUNTING (Side) (2.0" x 4.5" [51 x 114 mm])	A.R.
	235 8600		.375" (9.5 mm) thick	
	235 8610		.250" (6.4 mm) thick	
	235 8620		12 Ga (.1046" [2.6 mm] thick)	
	235 8630		16 Ga (.0598" [1.5 mm] thick)	
70	236 1440		SPACER, STEER AXLE	2
71	236 1580		PLATE, SPACER MOUNTING	4
72	07-003048		CAP SCREW, HEX HEAD (3/8"-16 x 1-3/4", Grade 5)	4
73	07-062016		WASHER, FLAT (3/8")	4
74	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4

TITLE FRONT (STEER) AXLE ASSEMBLY (FOUR WHEEL DRIVE)

SECTION C13. PLATE NO. 202 PAGE 03 REV. - DATED 21 JUN., 1996 PART NO. 354 5810

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TITLE

FRONT (STEER) AXLE ASSEMBLY (FOUR WHEEL DRIVE)

PART NO.

354 5810

REV.

DATED

21 JUN., 1996

SECTION

C13.

PLATE NO.

202

PAGE

03

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2910		REAR (DRIVE) AXLE ASSEMBLY Standard version (Without Four Wheel Steering)	1
2	235 0290		AXLE, OUTER (Center section) (Note: On some earlier versions, the axle inner stop bolts to the axle; five bolts are visible down the rear face centerline. Items 3 through 5 are for these earlier machines. On later versions, the stop is welded in place.)	1
3	235 1220		STOP, AXLE INNER (For earlier versions. Later is welded on.)	1
4	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	5
5	07-065016		WASHER, HELICAL LOCK (3/8")	5
6	235 0820		STOP, AXLE OUTER (at bottom)	2
7	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	8
8	218 7740		PAD, DRIVE AXLE	4
9	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	8
10	07-065018		WASHER, HELICAL LOCK (1/2")	16
11	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	8
12	235 0830		PAD, OUTER REST (at top) (5.5" x 11.75" [140 x 298 mm])	2
13			SHIM, OUTER REST PAD (5.5" x 11.75" [140 x 298 mm])	A.R.
	235 2310		12 Ga (.1046" [2.6 mm] thick)	
	235 2300		16 Ga (.0598" [1.5 mm] thick)	
14	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	4
15	07-065018		WASHER, HELICAL LOCK (1/2")	4
16	235 3710		PAD, OUTER SIDE (2" x 4" [51 x 102 mm])	8
17			SHIM (2" x 4" [51 x 102 mm])	A.R.
	235 2280		12 Ga (.1046" [2.6 mm] thick)	
	235 2290		16 Ga (.0598" [1.5 mm] thick)	
18	07-003095		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/2", Grade 5) (upper)	8
19	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5) (lower)	8
20	07-065018		WASHER, HELICAL LOCK (1/2")	16
21	03-735600		SWITCH, LIMIT (Positive break, side rotary)	2
22	03-735700		ARM, LIMIT SWITCH (Fixed roller, 1.75" [44 mm] dia.)	2
23	03-085200		WIRE, ELECTRICAL (SJO, 2 conductor, #16 Ga.) (Limit switch)	A.R.
24	03-041000		GRIP, CORD (Plastic, 1/2", with .38" to .44" seal)	2
25	07-008355		CAP SCREW, SOCKET HEAD (#10-24x 1-1/2", Grade 8)	8
26	235 2780		CLAMP, HOSE (Nylon, three pieces)	2
27	235 2770		BRACKET, HOSE CLAMP	4
28	07-003055		CAP SCREW, HEX HEAD (3/8"-16 x 3-1/2", Grade 5)	4
29	07-040016		NUT, HEX (3/8"-16, Grade 5)	6
30	07-003060		CAP SCREW, HEX HEAD (3/8"-16 x 6", Grade 5)	2
31	235 5630		SPACER, HOSE CLAMP MOUNTING (1.25" [32 mm] long)	2
32	235 5640		SPACER, HOSE CLAMP MOUNTING (.50" [13 mm] long)	2

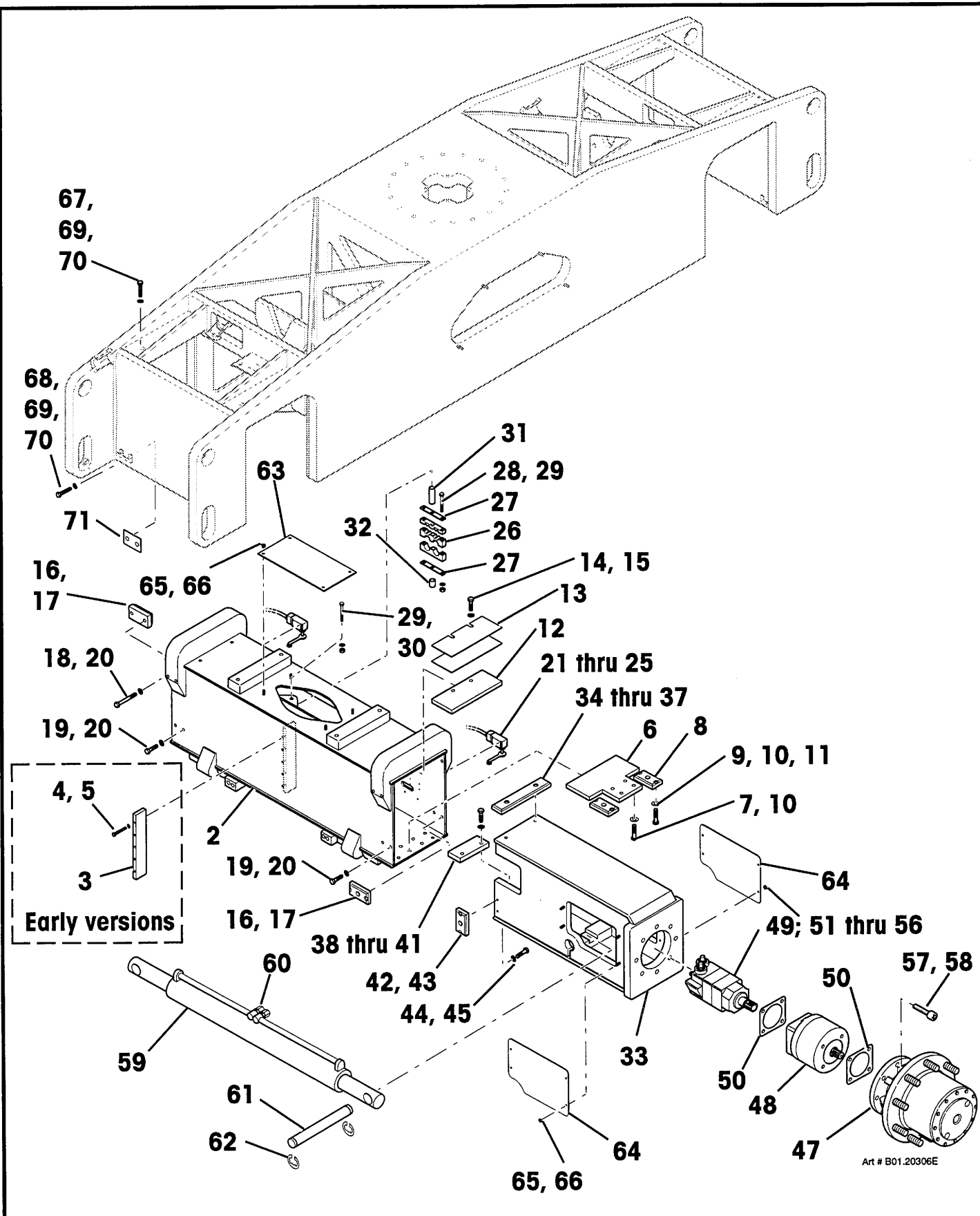
TITLE

REAR (DRIVE) AXLE ASSEMBLY, RP 86 AND T-80

SECTION **C13.** | PLATE NO. **203** | PAGE **01** | REV. **A** | DATED **21 JUN., 1996** | PART NO. **354 2910**



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Art # B01.20306E

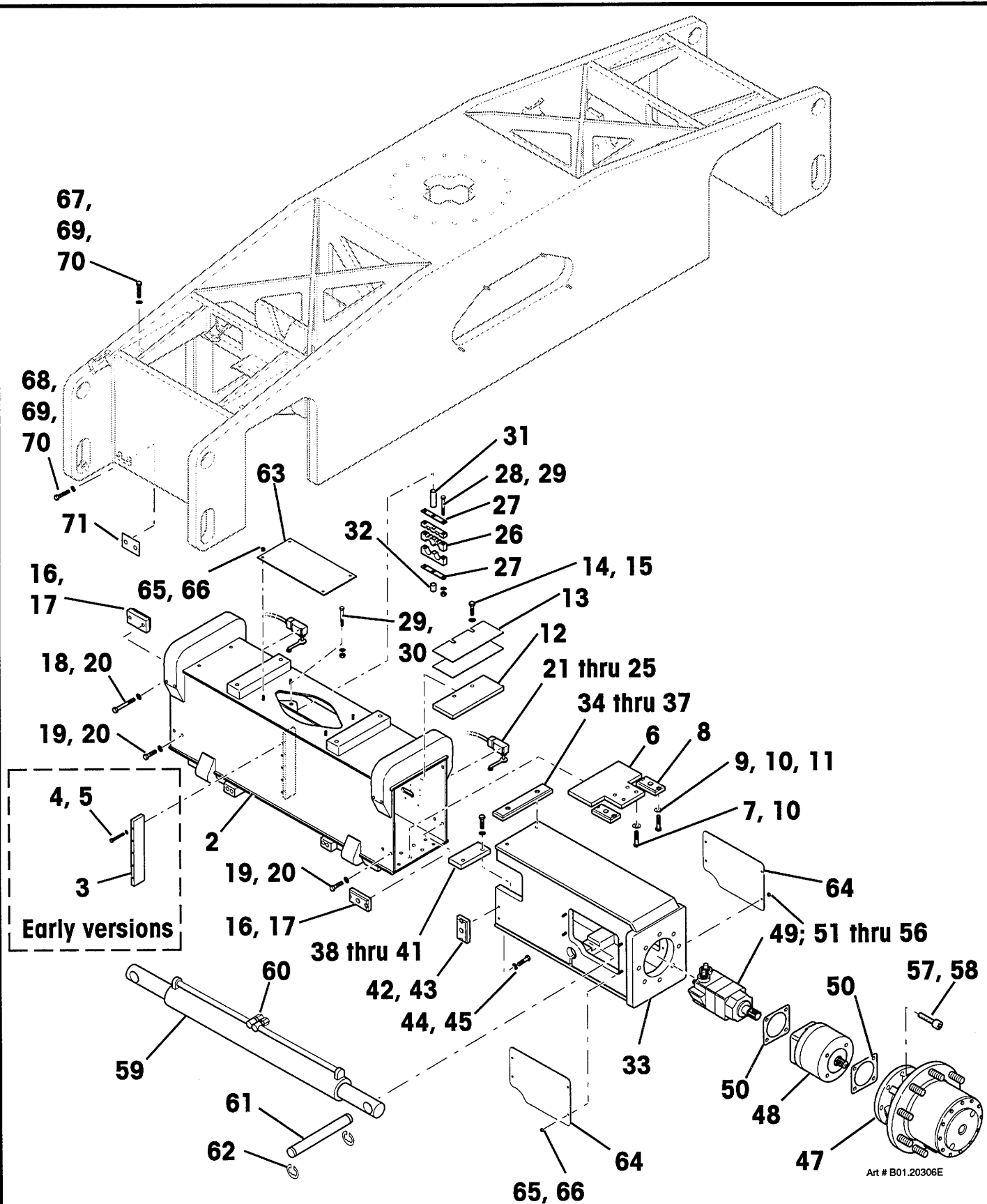
	Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE REAR (DRIVE) AXLE ASSEMBLY, RP 86 AND T-80					
		PART NO. 354 2910	REV. A	DATED 21 JUN., 1996	SECTION C13.	PLATE NO. 203	PAGE 01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			REAR (DRIVE) AXLE ASSEMBLY (Continued)	
33	234 9820		AXLE, INNER (End section)	2
34	234 9920		PAD, UPPER GUIDE (4.0" x 12.25" [102 x 311 mm])	2
35	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	4
36	07-065018		WASHER, HELICAL LOCK (1/2")	4
37	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	4
38	234 9930		PAD, INNER REST (at bottom) (4.0" x 12.0" [102 x 305 mm])	2
39			SHIM, INNER REST PAD (4.0" x 10.75" [102 x 273 mm])	A.R.
	235 2260		12 Ga (.1046" [2.6 mm] thick)	
	235 2270		16 Ga (.0598" [1.5 mm] thick)	
40	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5) (different length bolts may be required due to shim installation)	4
41	07-065018		WASHER, HELICAL LOCK (1/2")	4
42	235 3710		PAD, INNER SIDE (2" x 4" [51 x 102 mm])	4
43			SHIM (2" x 4" [51 x 102 mm])	A.R.
	235 2280		12 Ga (.1046" [2.6 mm] thick)	
	235 2290		16 Ga (.0598" [1.5 mm] thick)	
44	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5) (lower)	8
45	07-065018		WASHER, HELICAL LOCK (1/2")	8
46			DRIVE HUB ASSEMBLY	2
	354 6700		Later versions (Torque hub has integral brake)	
	354 4730		2 Wheel Drive, earlier versions (separate torque hub and brake)	
	354 5820		4 Wheel Drive, earlier versions (separate torque hub and brake)	
47			TORQUE HUB ASSEMBLY ("Power Wheel", 25.71:1 Ratio)	1
	02-049700		Later, with integral brake (marked "8W2C5-14-25-9B5RX")	
	02-048900		Earlier, with separate brake (marked "8W2C5-14-25-9R")	
48			BRAKE ASSEMBLY (used with Torque Hub "...-9R")	1
	02-049000		2 Wheel Drive (Nameplate is marked "3C-1414 98-C")	
	02-049600		4 Wheel Drive (Nameplate is marked "3C-1414 45-C")	
49	01-238200		DRIVE MOTOR ASSEMBLY (Earlier versions are marked	
			"109-1114". Later versions marked "109-1154-006")	1
50	02-049001		GASKET (for use between components of Drive Hub Ass'y.)	A.R.
51			CAP SCREW, HEX HEAD (1/2"-13 NC thread)	4
	07-003092		for versions with integral brake (2-3/4" long, Grade 5)	
	07-004101		for versions with separate brake (7" long, Grade 8)	
52	07-065018		WASHER, HELICAL LOCK (1/2")	4
53	06-039300		ADAPTER, "O"-RING TO 37° (4 F50X-S)	4
54	06-040800		ADAPTER, "O"-RING TO 37° (12 F50X-S)	2
55	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	2
56	06-045400		90° ELBOW, "O"-RING TO 37° (12 C50X-S)	2
57	07-004128		CAP SCREW, HEX HEAD (5/8"-11 x 1-3/4", Grade 8)	16
58	07-061021		WASHER, FLAT (5/8", SAE, hardened)	16

TITLE					REAR (DRIVE) AXLE ASSEMBLY, RP 86 AND T-80	
SECTION	C13.	PLATE NO.	203	PAGE	02	REV. A
				DATED	21 JUN., 1996	PART NO. 354 2910


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TITLE

REAR (DRIVE) AXLE ASSEMBLY, RP 86 AND T-80

PART
NO.

354 2910

REV.
A

DATED
21 JUN., 1996

SECTION

C13.

PLATE NO.

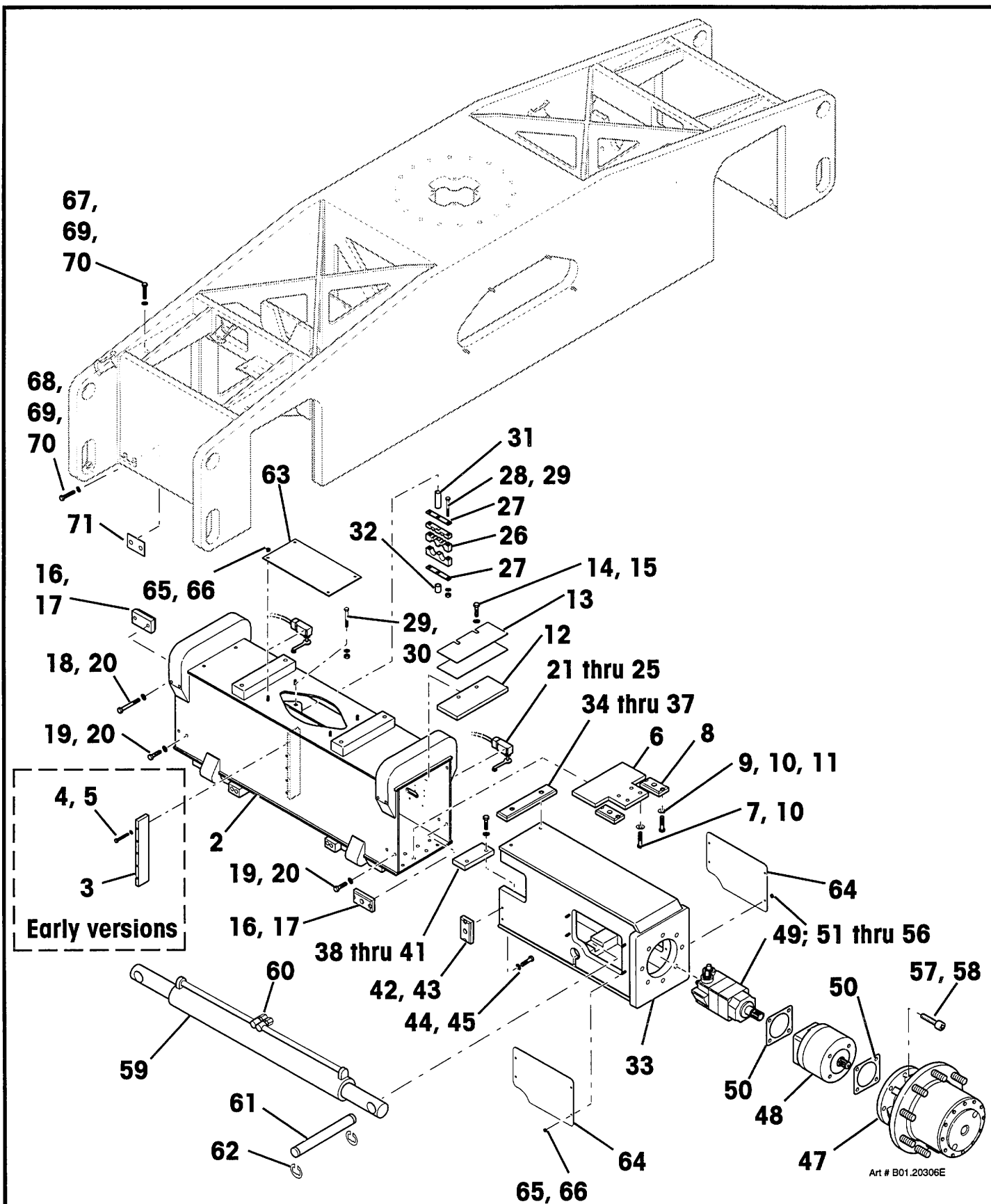
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PAGE

02

PARTS LIST

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REAR (DRIVE) AXLE ASSEMBLY, RP 86 AND T-80

PART
NO.

354 2910

REV. A

DATED
21 JUN., 1996

SECTION

C13.

PLATE NO.

203

PAGE

03

PARTS LIST

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TITLE

STEER AXLE TIE ROD ASSEMBLY, RP 86 AND T-80

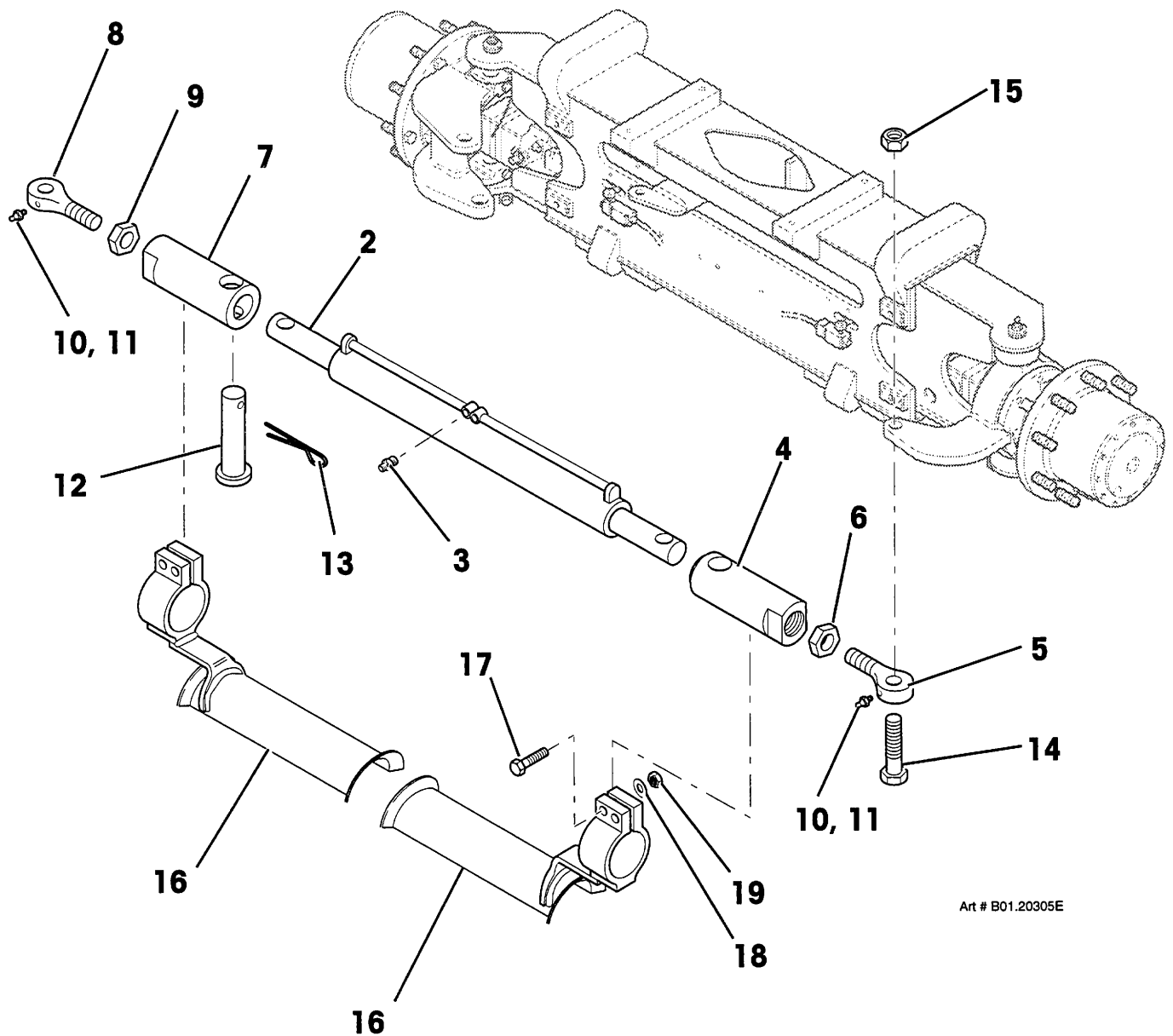
SECTION	C13.	PLATE NO.	249	PAGE	01
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REV. **A** DATED
21 JUN., 1996

PART NO. 354 3590



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Art # B01.20305E



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TITLE

STEER AXLE TIE ROD ASSEMBLY, RP 86 AND T-80

PART
NO.

354 3590

REV. A

DATED
21 JUN., 1996

SECTION

C13.

PLATE NO.

249

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

TITLE

STEER CYLINDER

SECTION

D01.

PLATE NO.

11

PAGE

01

REV.

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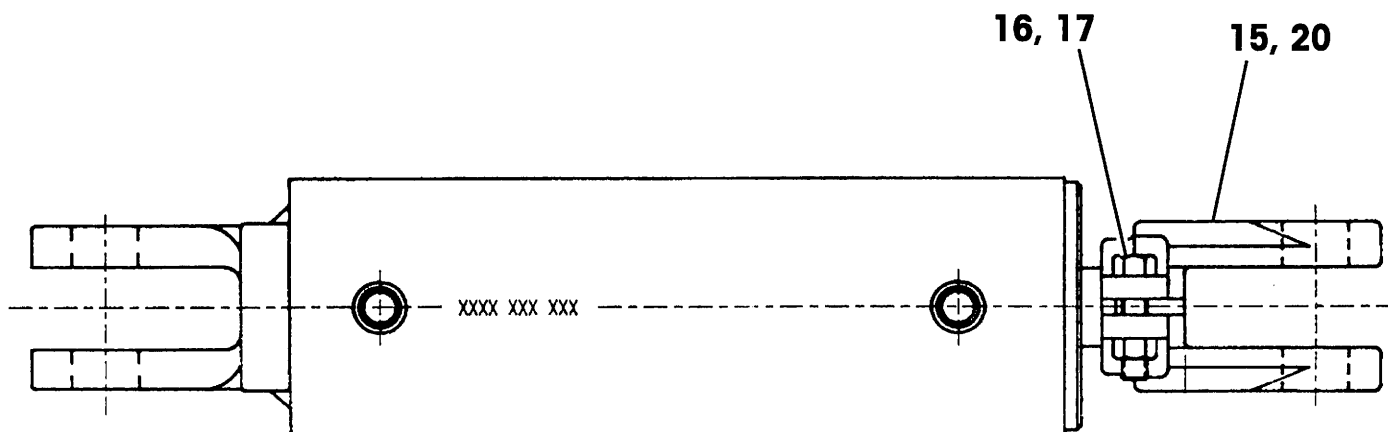
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15 JUN, 1994

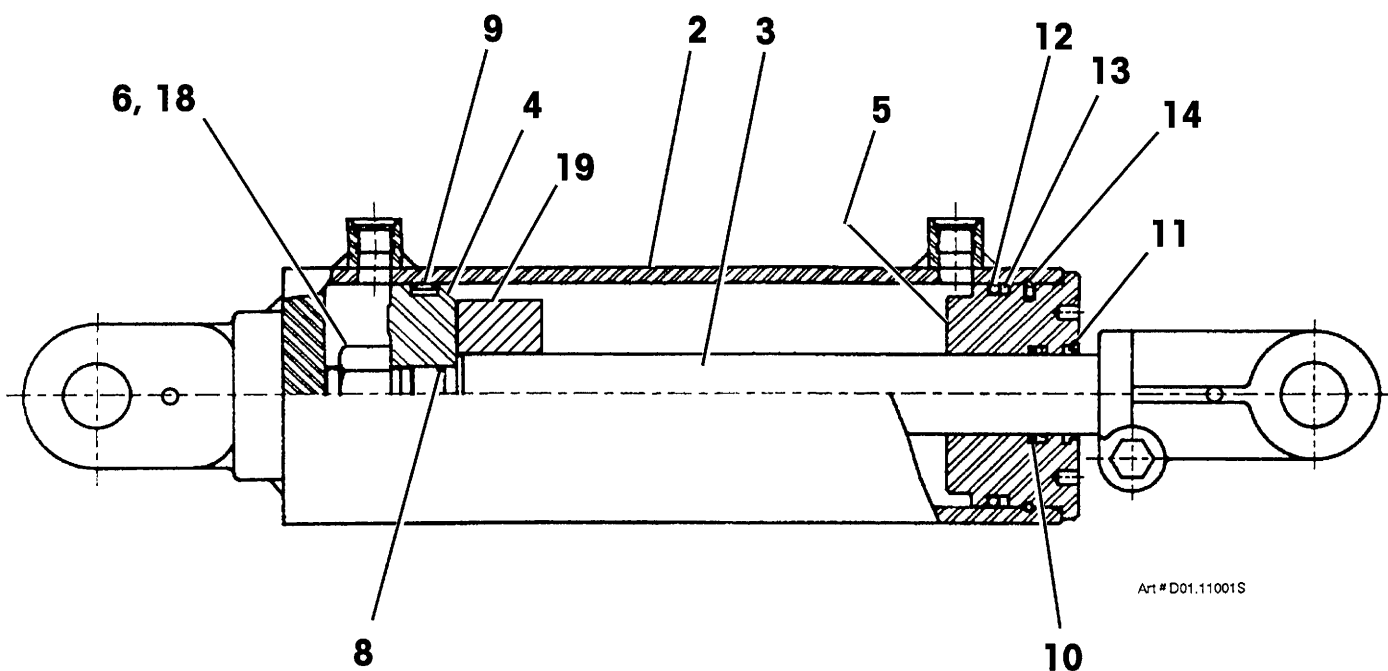
PART NO.



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Art # D01.11002S



Art # D01.11001S



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TITLE

STEER CYLINDER

PART
NO.

REV.
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DATED
15 JUN, 1994

SECTION

D01.

PLATE NO.

11

PAGE

01

PARTS LIST

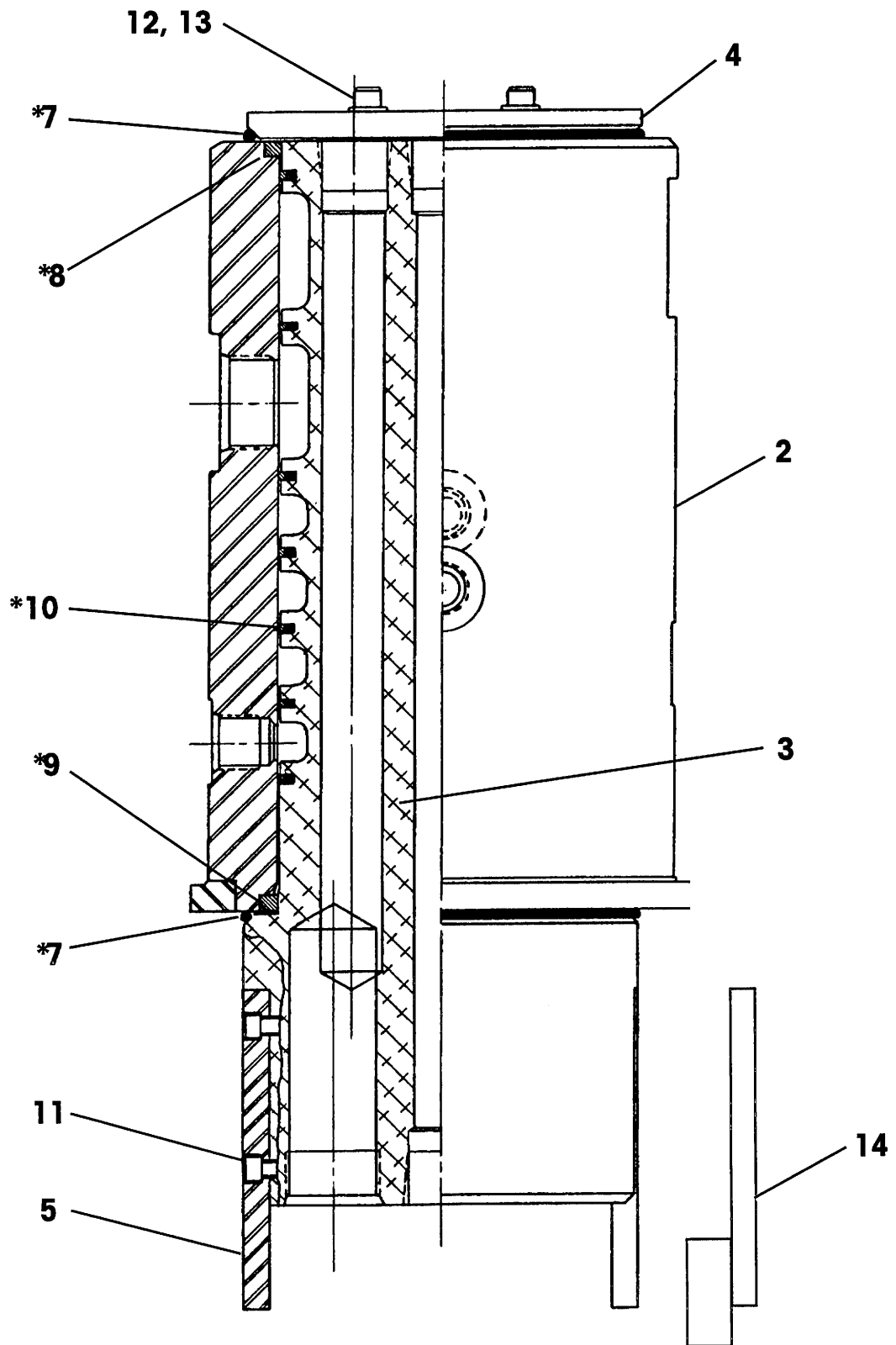
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	04-008700 235 1600		HYDRAULIC SWIVEL For all versions except as listed below For Model RP 86 or T-80	1
2			HOUSING, HYDRAULIC SWIVEL	1
3			SPOOL	1
4			RETAINER PLATE	1
5	04-008703 236 0930		ARM, TORQUE Standard 8" (203 mm) long arm for Swivel 04-008700 4" (102 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.

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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.

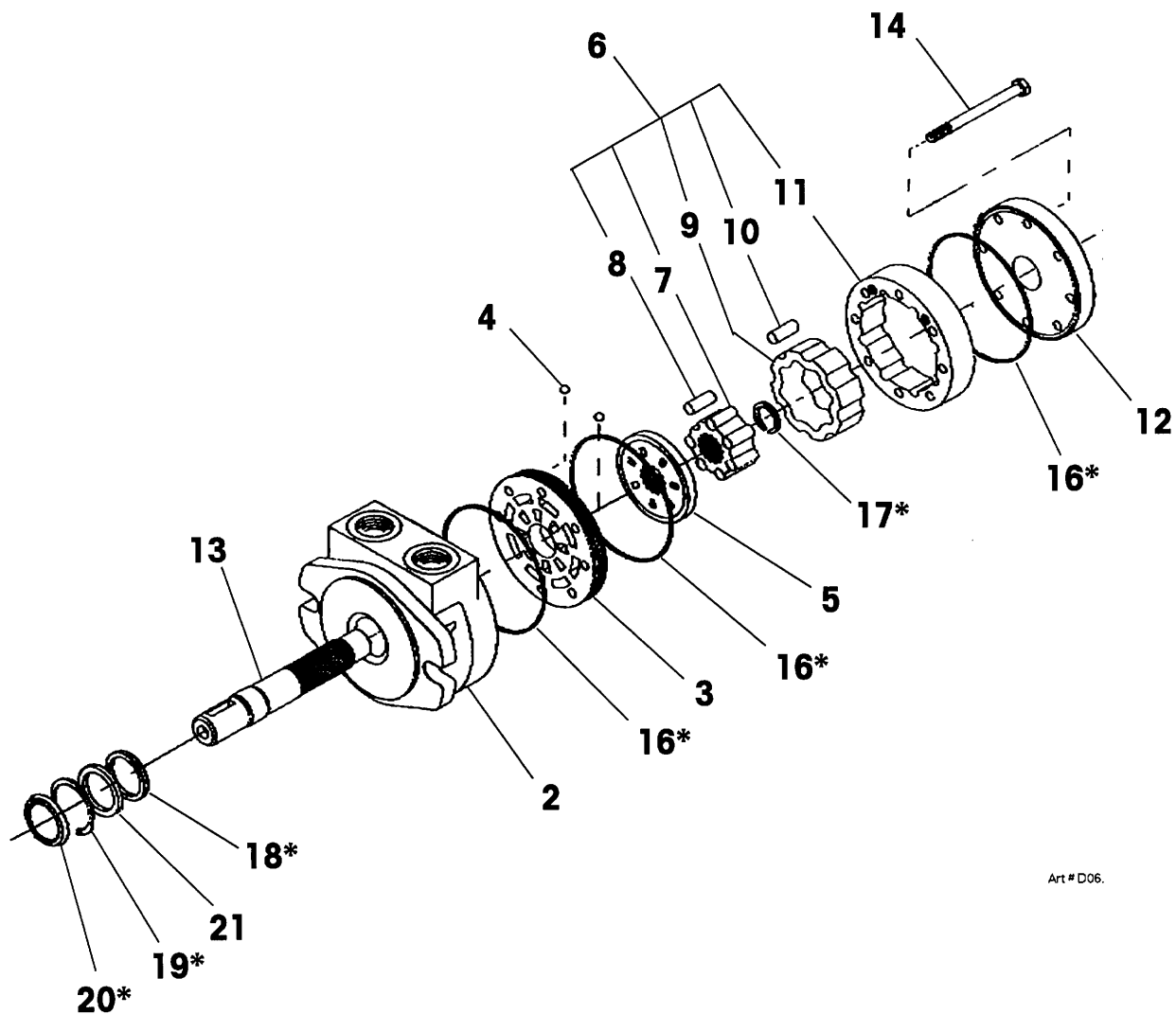
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PAGE

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Art # D06.



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TITLE

SWING MOTOR

PART
NO.

01-215 500

REV.
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DATED
19 JUL., 1994

SECTION

D06.

PLATE NO.

12

PAGE

01

PARTS LIST

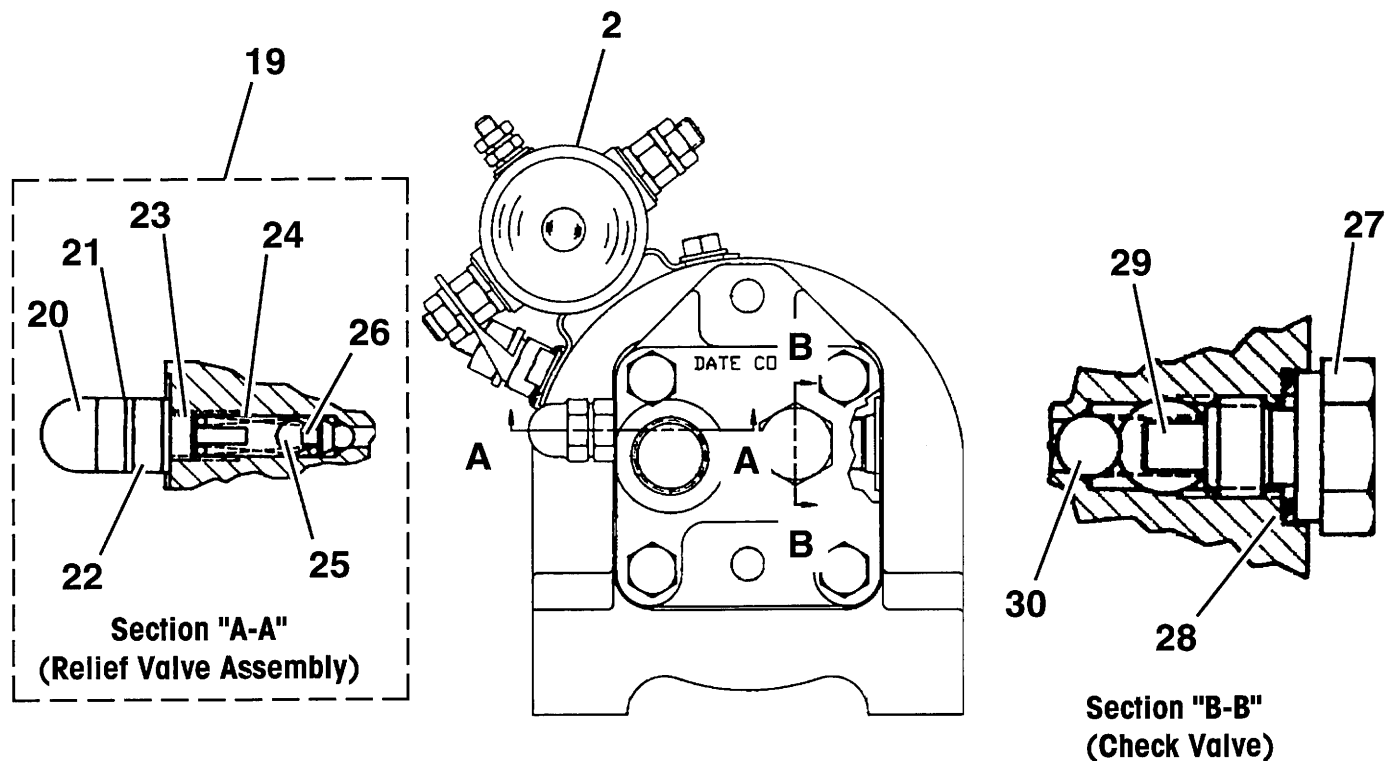
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-224901		MOTOR, ELECTRIC PUMP	1
2	01-224902		RELAY, SOLENOID	1
3	01-027205		COUPLING, PUMP	1
4	01-027202		GASKET, PUMP	1
5			PLATE, DRIVE	1
6			CASE	1
7			PLATE, END	1
8			GEAR	2
9			SHAFT, DRIVE	1
10			SHAFT, IDLER	1
11			BEARING	4
12			KEY, DOWEL	1
13	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

TITLE

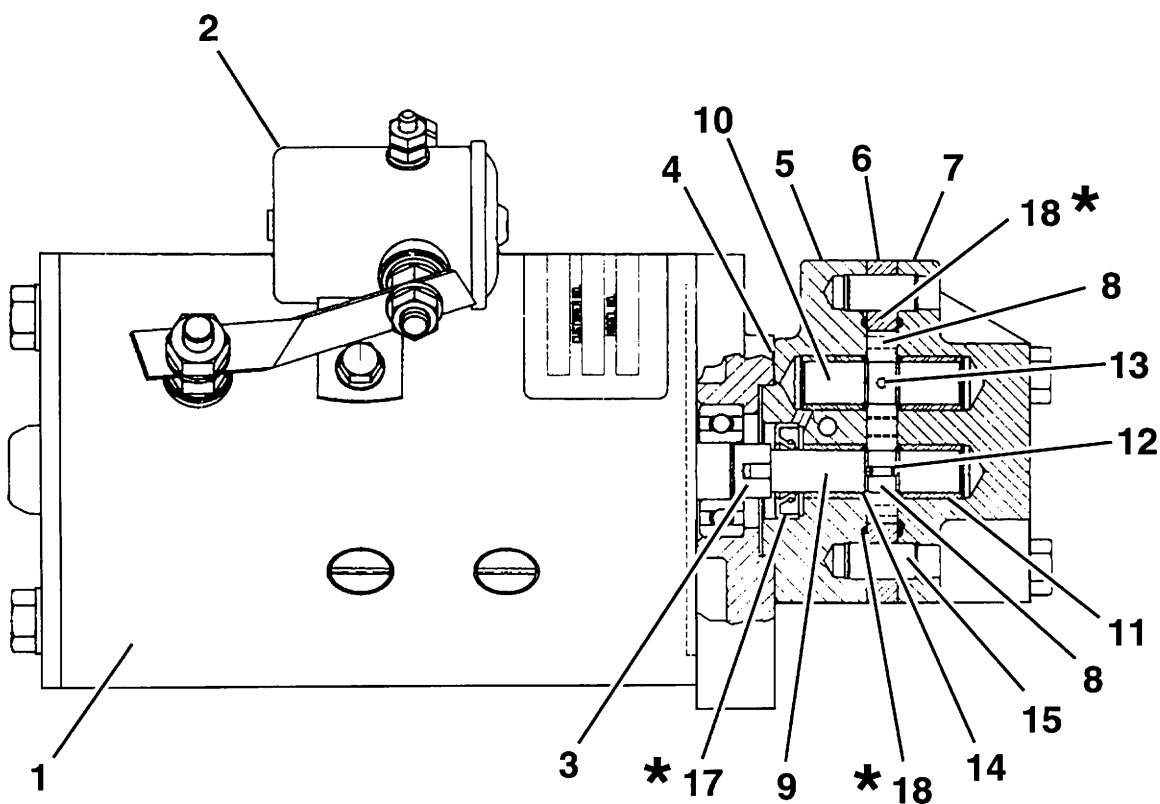
EMERGENCY PUMP

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


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View in direction of Arrow



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TITLE

EMERGENCY PUMP

PART NO.

01-224 900

REV. -

DATED

08 SEP., 1995

SECTION

D07.

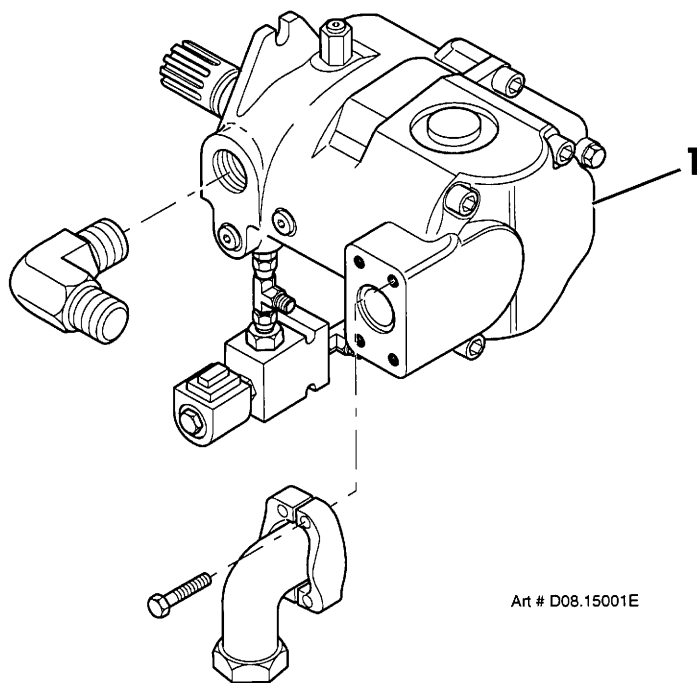
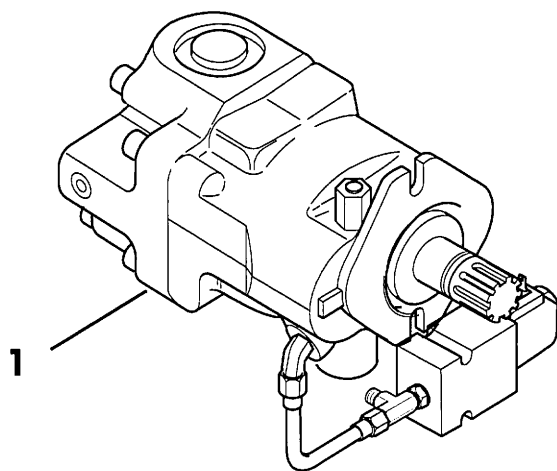
PLATE NO.

101

PAGE

01

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Art # D08.15001E



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TITLE

HYDRAULIC PUMP ASSEMBLY

PART
NO.

REV.
-

DATED
24 JAN., 1996

SECTION

D08.

PLATE NO.

15

PAGE

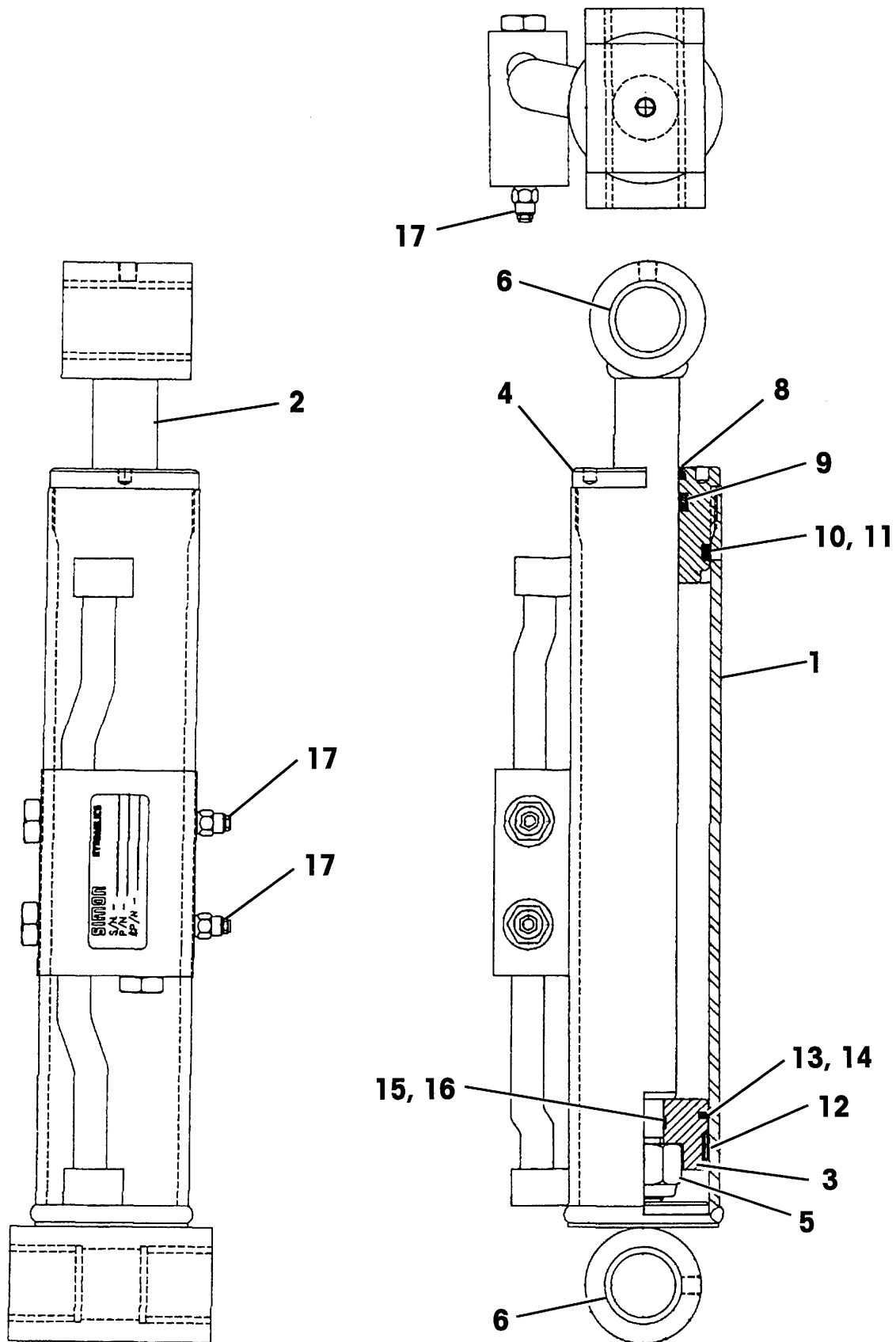
01

PARTS LIST

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

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

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TITLE

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

PART NO. 04-032 600

REV. -

DATED 03 DEC., 1992

SECTION D10.

PLATE NO. 101

PAGE 01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 2790		CYLINDER ASSEMBLY, DOUBLE TELESCOPE	1
2	04-055000		CYLINDER, DOUBLE TELESCOPE	1
3	354 0160		TUBE, EXTEND (bent section)	1
4	354 4750		TUBE, EXTEND (straight section, 81.12" [2.06 m] long)	1
5	06-217600		UNION, "O"-RING (#8-#8. F027-2403-0)	2
6	06-213700		ADAPTER, "O"-RING (#8-#8)	4
7	354 0160		TUBE, RETRACT (bent section)	1
8	354 4650		TUBE, RETRACT (straight section, 79.62" [2.02 m] long)	1
9	10-267500		PAD, RUBBER (2.5" x 12" x 1/8" thick)	10
10	09-008700		CLAMP, HOSE (4.5" [114 mm])	2
11	09-020000		CLAMP, HOSE (5.0" [127 mm])	3
12	232 1420		PAD, SLIDER	2
13	07-016045		CAP SCREW, FLAT SOCKET HEAD (3/8"-16 x 1", Grade 5)	4
14	01-239000		VALVE KIT, TELESCOPE CYLINDER	1
15			BLOCK, VALVE	1
16			VALVE, COUNTERBALANCE (Extend) (set at 4000 psi [276 bar] [281 kg/ cm ²]) (Valve is marked "9BH5-CBEA-LHN")	1
17			VALVE, COUNTERBALANCE (Retract) (Valve is marked "9L04-CACA-LHM")	1
18	06-044800		90° ELBOW, "O"-RING TO 37° (8 C50X-S)	1
19	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S)	1
20	06-094800		PLUG, HEX SOCKET "O"-RING (4 HP50-S)	2
			The following item is not included with the Telescope Cylinder:	
21	235 9800		SPACER, ROD (External) (Was used on some early versions)	1

TITLE

TELESCOPE CYLINDER ASSEMBLY

SECTION

D19.

PLATE NO.

202

PAGE

01

REV.

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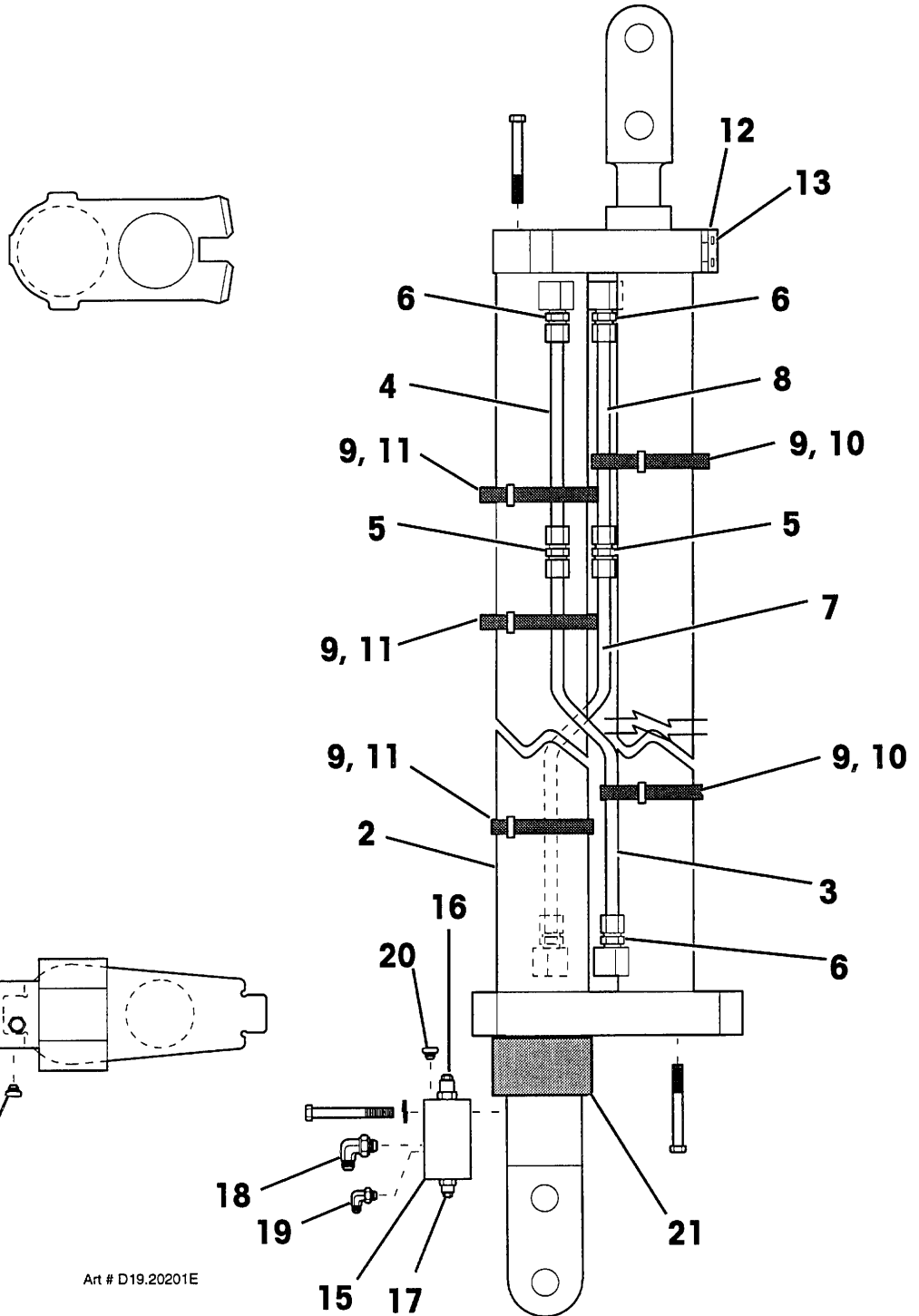
21 JUN., 1996

PART NO.

354 2790



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Art # D19.20201E



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TITLE

TELESCOPE CYLINDER ASSEMBLY

PART
NO.

354 2790

REV.
A

DATED
21 JUN., 1996

SECTION

D19.

PLATE NO.

202

PAGE

01

PARTS LIST

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

TITLE

SLAVE LEVEL CYLINDER, 7" (17.8 CM) STROKE

SECTION

D20.

PLATE NO.

201

PAGE

01

REV.

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DATED

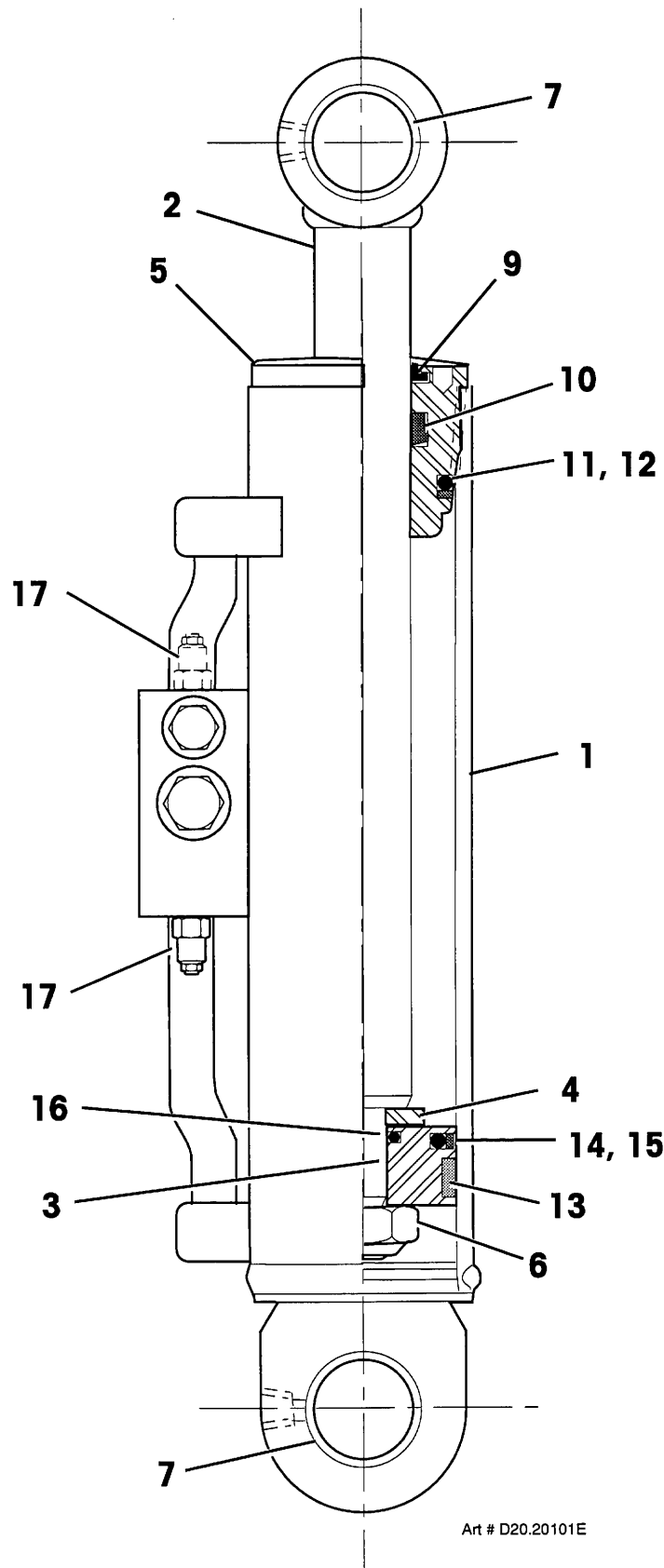
22 JUN., 1994

PART NO.

04-039000



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Art # D20.20101E



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TITLE

SLAVE LEVEL CYLINDER, 7" (17.8 CM) STROKE

PART
NO.

04-039000

REV.

-

DATED

22 JUN., 1994

SECTION

D20.

PLATE NO.

201

PAGE

01

PARTS LIST

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

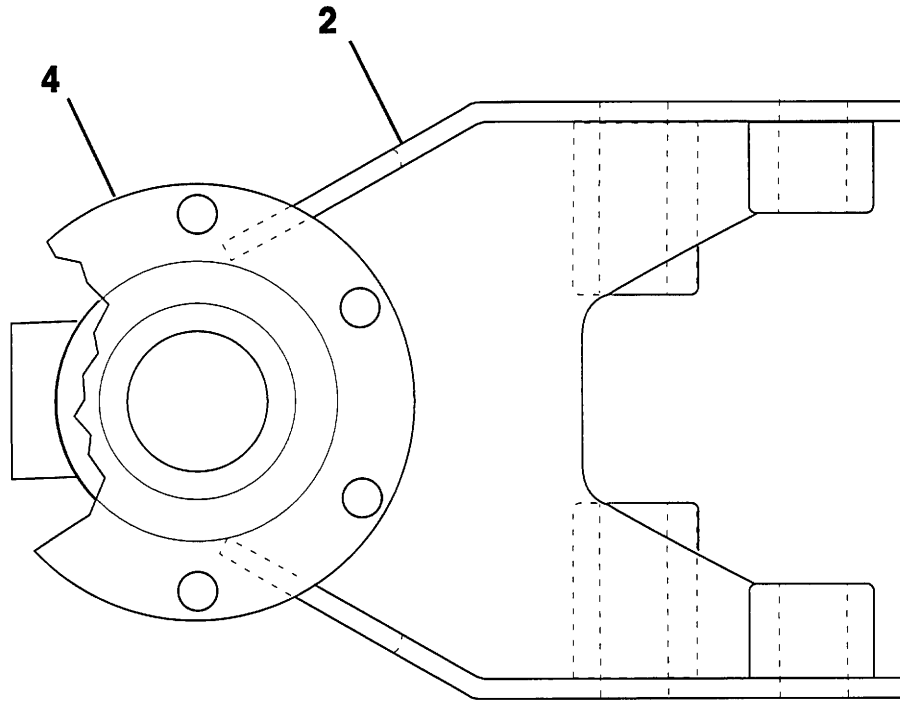
TITLE

PLATFORM ROTARY ACTUATOR

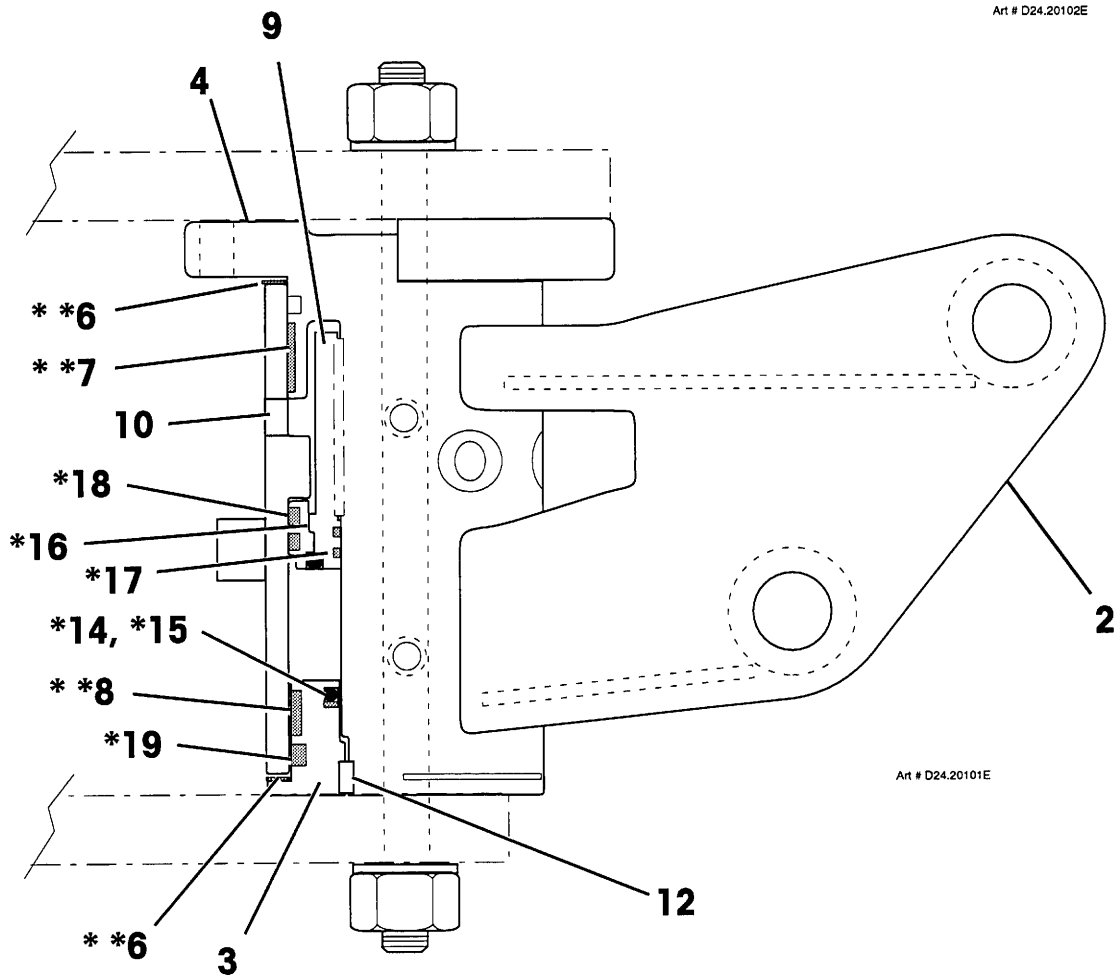
SECTION **D24.** PLATE NO. **201** PAGE **01** REV. **-** DATED **14 JUL., 1994** PART NO. **02-042700**



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Art # D24.20102E



Art # D24.20101E



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TITLE

PLATFORM ROTARY ACTUATOR

PART NO.

02-042700

REV. -

DATED

14 JUL., 1994

SECTION

D24.

PLATE NO.

201

PAGE

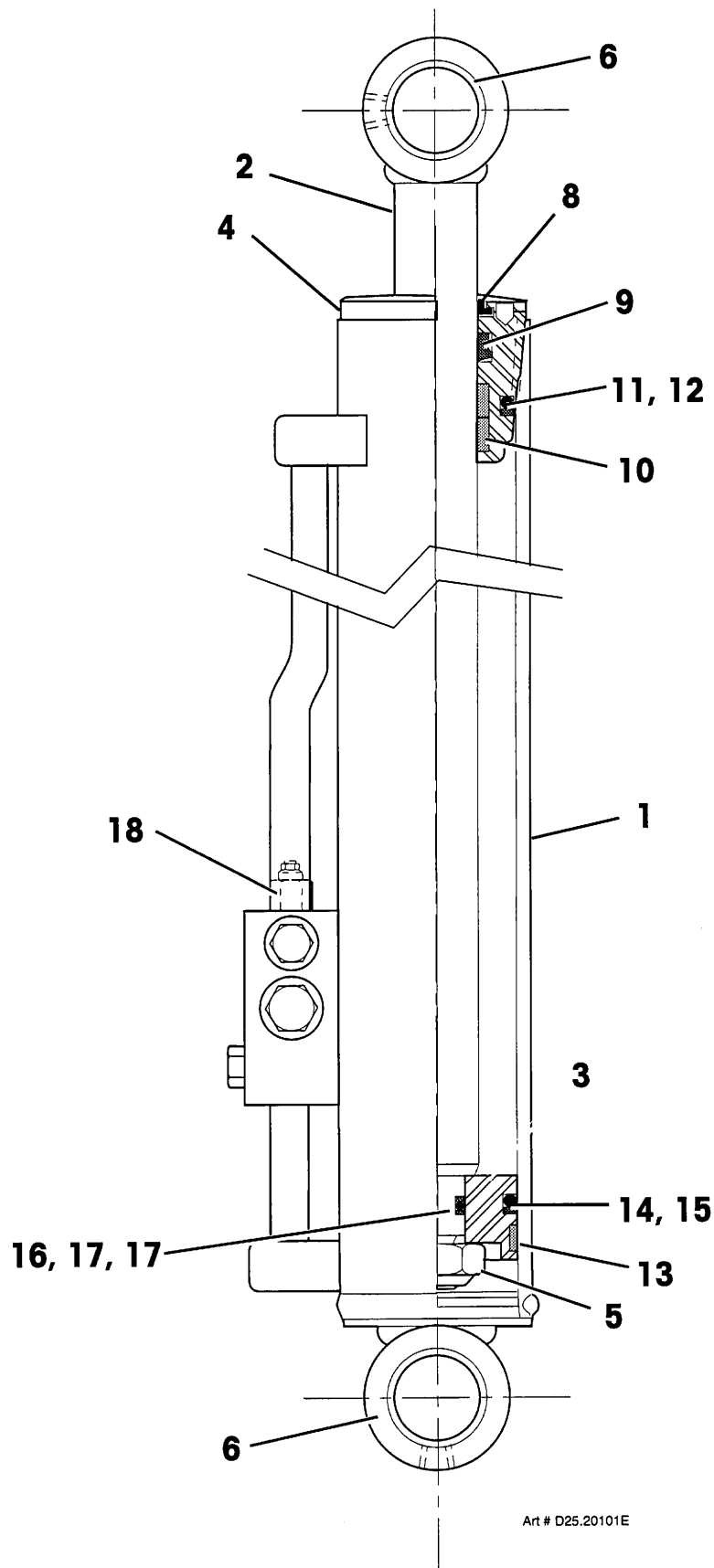
01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04039100SH" on nameplate located on valve block.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, LOCK	1
6			BUSHING	4
7			SEAL KIT	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			RING, ROD WEAR	2
11			"O"-RING	1
12			RING, BACKUP	1
13			RING, PISTON WEAR	2
14			"O"-RING	1
15			SEAL, PISTON	1
16			"O"-RING	1
17			RING, BACKUP	2
18	04-028302		VALVE, COUNTERBALANCE (Valve is stamped "CB-CG-LJN", and set	
			at 3,000 psi [207 bar] [211 kg/ cm ²])	1
19	04-039101		SEAL KIT, COUNTERBALANCE VALVE	1

TITLE JIB ARTICULATION CYLINDER, 20.69" (.53 M) STROKE				
SECTION D25.	PLATE NO. 201	PAGE 01	REV. -	DATED 14 JUL., 1994 PART NO. 04-039100

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TITLE

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

PART
NO.

04-039100

REV.

1

DATED

14 JUL., 1994

SECTION

D25.

PLATE NO.

201

PAGE

01

PARTS LIST

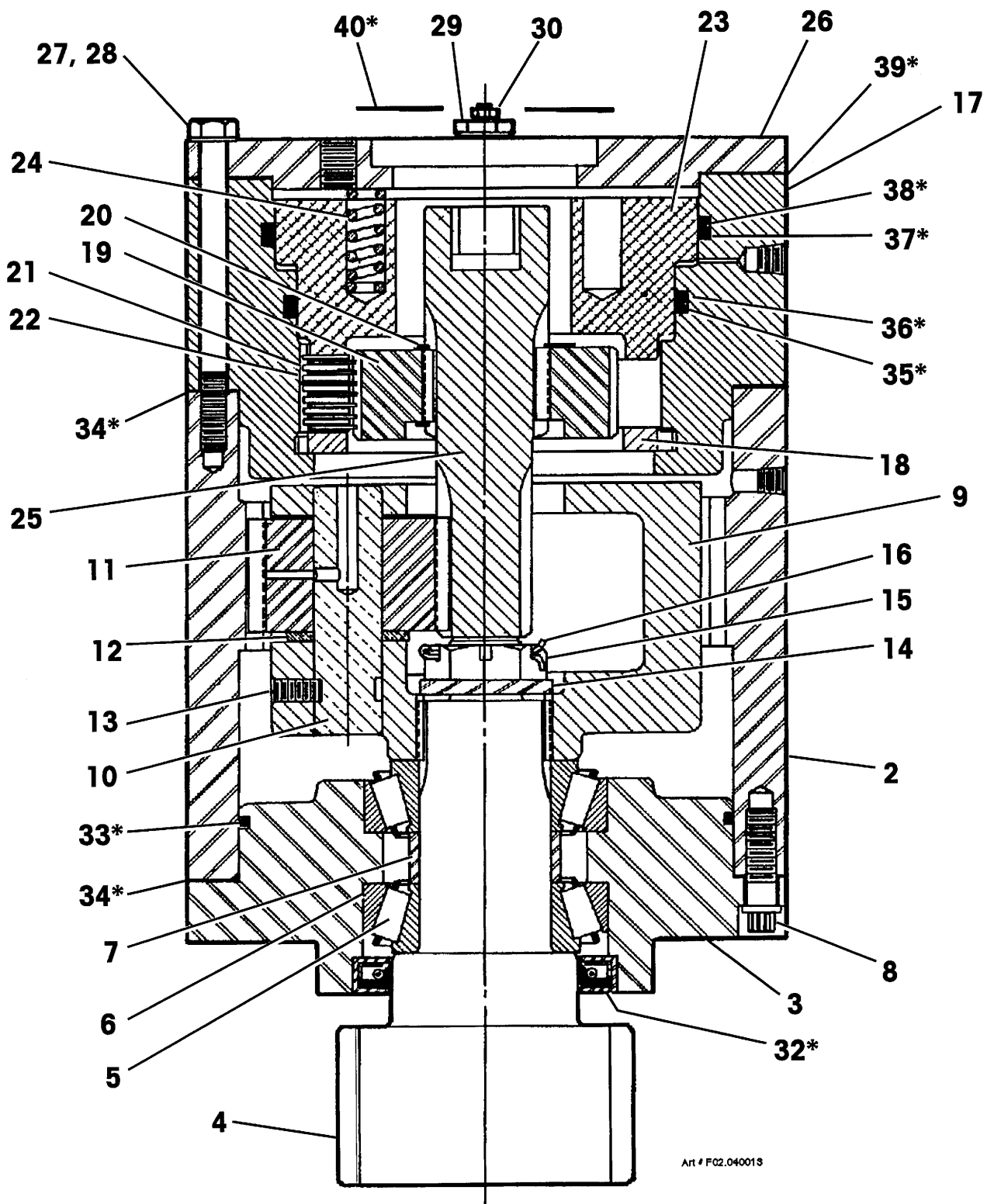
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-006100		SWING REDUCER ASSEMBLY (Identified on nameplate as "D105 00029-1" or "D105-00036-1")	1
2			HOUSING, SWING REDUCER	1
3	02-006111		PLATE, BASE	1
4	02-006102		SHAFT, OUTPUT	1
5	02-005703		CONE AND ROLLER, OUTPUT SHAFT BEARING	2
6	02-006114		CUP, OUTPUT 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 Note: items in kit identified by asterisk (*).	1
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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Art # F02.040013



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TITLE

SWING REDUCER ASSEMBLY

PART
NO.

02-006 100

REV.
-

DATED
26 AUG., 1994

SECTION

F02.

PLATE NO.

04

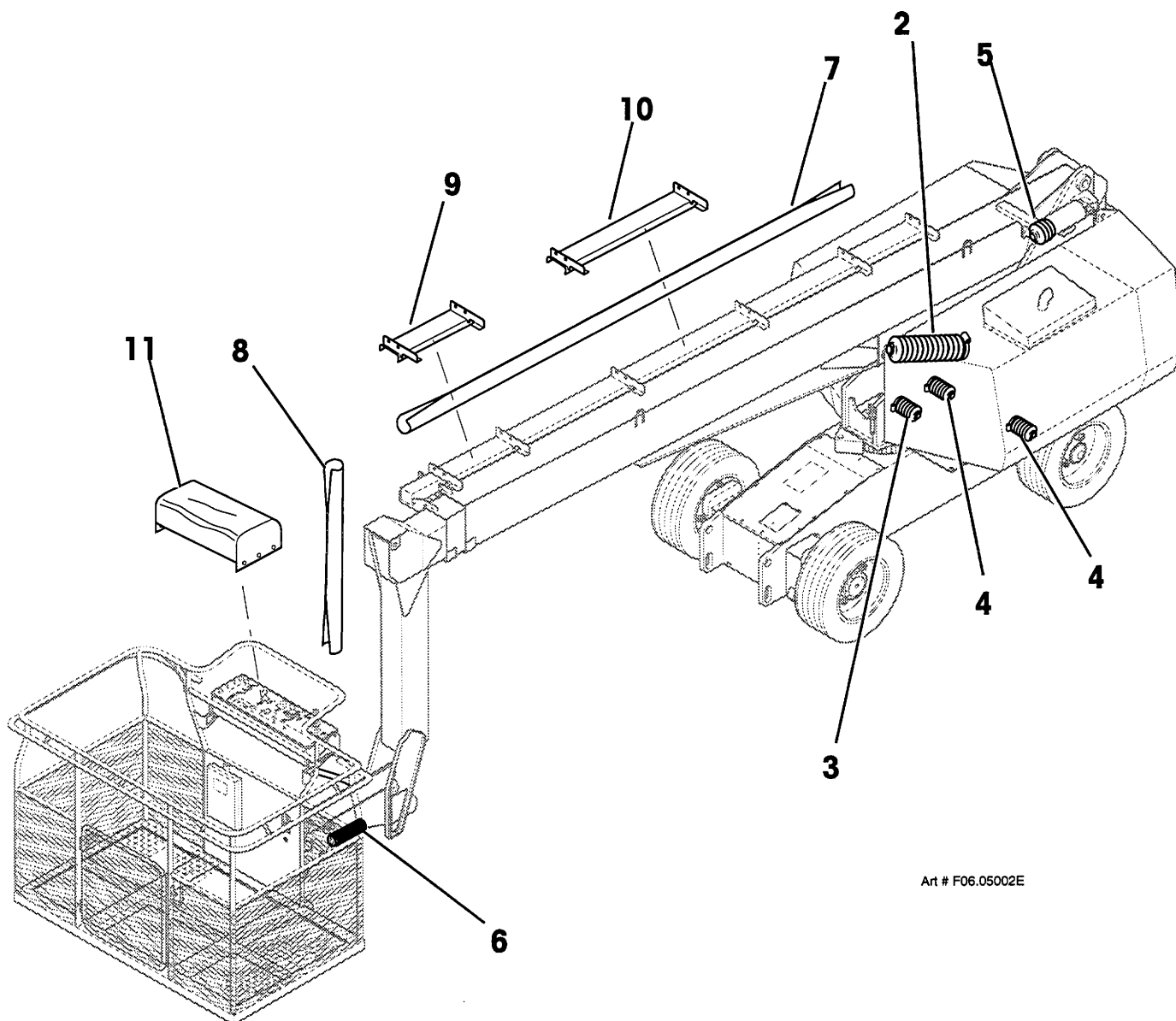
PAGE

01

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 6550		TOW PACKAGE ASSEMBLY	1
2	235 9610		UNDERCARRIAGE WELDMENT MODIFICATIONS	1
3	234 4150		PIVOT, TOW	1
4	201 4368		BRACKET, TOW BAR (Pin end)	2
5	234 4150		BRACKET, TOW BAR (Socket end)	1
6	235 9620		BRACKET, TIE ROD STORAGE	2
7	235 9490		STEER ARM, CENTER (includes bushings)	1
8	08-002000		BEARING, FLANGED (1-1/2" I.D., 1-3/4" O.D., 2" flange)	2
9	232 7430		PIN, CENTER STEER ARM (1.5" x 9.62")	1
10	08-040900		RING, SNAP (1.5")	2
11	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	1
12	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
13	08-051300		FITTING, GREASE (90°, 1/8" NPT)	1
14	08-066300		CAP, GREASE FITTING (White plastic)	1
15			SPINDLE WELDMENT (Front Axle, Left)	1
	235 9480		for Four Wheel Drive versions	
16	354 6540		TIE ROD ASSEMBLY	1
17	235 9600		ROD, TIE	1
18	08-016800		TIE ROD END (Right hand thread)	1
19	07-090004		NUT, JAM (1-1/4", Right hand thread)	1
20	08-016900		TIE ROD END (Left hand thread)	1
21	07-090005		NUT, JAM (1-1/4", Left hand thread)	1
22	08-050000		FITTING, GREASE (Straight, 1/8" NPT)	2
23	08-066300		CAP, GREASE FITTING (White plastic)	2
24	235 9990		PIN, CLEVIS (1" x 3-1/2")	2
25	04-003404		CLIP, HAIRPIN	2
26	209 8450		TOW BAR	1
27	210 8970		PIN, HITCH	1
28	01-010900		VALVE, SELECTOR	1
29	06-004000		90° ELBOW, MALE 37° TO NPT (6-6 CTX-S)	3
30	07-040015		NUT, HEX (5/16"-18, Grade 5)	2
31	07-065015		WASHER, HELICAL LOCK (5/16")	2
32	11-007004		ROD, THREADED (3/8"-16, Grade 2. 3 ft [.91 m] long piece. 12" [.31 m] needed here)	A.R.
33	07-040016		NUT, HEX (3/8"-16, Grade 5)	1
34	07-065016		WASHER, HELICAL LOCK (3/8")	1
35	10-042400		KNOB, BALL (Black Plastic, 3/8"-16 thread)	1
36	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S) (Not shown. Mounts to Hydraulic Swivel, bottom section, Ports 3, 4, and 5)	3
TITLE TOW PACKAGE, RP 86 AND T-80				
SECTION F05.	PLATE NO. 03	PAGE 01	REV. A DATED 21 JUN., 1996	PART NO. 354 6550



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Art # F06.05002E



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TITLE

HOSTILE ENVIRONMENT PACKAGE, RP 86

PART
NO.

354 4870

REV.

A

DATED

21 JUN., 1996

SECTION

F06.

PLATE NO.

05

PAGE

01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
12	235 4630		BOOM BRUSH PACKAGE	1
13			SCRAPER, MID BOOM (Top) (Mounts on Base Boom. Brass, 9.5" [241 mm] wide)	1
14	235 4560		BRACKET, BASE BOOM WIPER (Side)	2
15	235 4600		WIPER, BOOM SEAL (Rubber, 13.81" [351 mm] high)	2
16	235 4590		CLAMP, BOOM SEAL WIPER (Steel, 13.81" [351 mm] high)	2
17	235 4660		BRACKET, BASE BOOM WIPER (Bottom)	1
18	235 4670		WIPER, BOOM SEAL (Rubber, 4.6" [117 mm] wide)	2
19	235 4680		CLAMP, BOOM SEAL WIPER (Steel, 4.6" [117 mm] wide)	2
20	235 4640		SCRAPER, TIP BOOM (Top) (Mounts on Mid Boom. Brass, 7.5" [190 mm] wide)	1
21	235 4580		BRACKET, MID BOOM WIPER (Right side, no notch at bottom)	1
22	235 4610		WIPER, BOOM SEAL (Rubber, 11.5" [292 mm] high)	1
23	235 4520		CLAMP, BOOM SEAL WIPER (Steel, 11.5" [292 mm] high)	1
24	235 5660		BRACKET, MID BOOM WIPER (Left side, with notch at bottom)	1
25	235 5670		WIPER, BOOM SEAL (Rubber, 9.25" [235 mm] high)	1
26	235 5680		CLAMP, BOOM SEAL WIPER (Steel, 9.25" [235 mm] high)	1
27	235 4700		BRACKET, MID BOOM WIPER (Bottom)	1
28	235 4710		WIPER, BOOM SEAL (Rubber, 4.0" [102 mm] wide)	2
29	235 4720		CLAMP, BOOM SEAL WIPER (Steel, 4.0" [102 mm] wide)	2

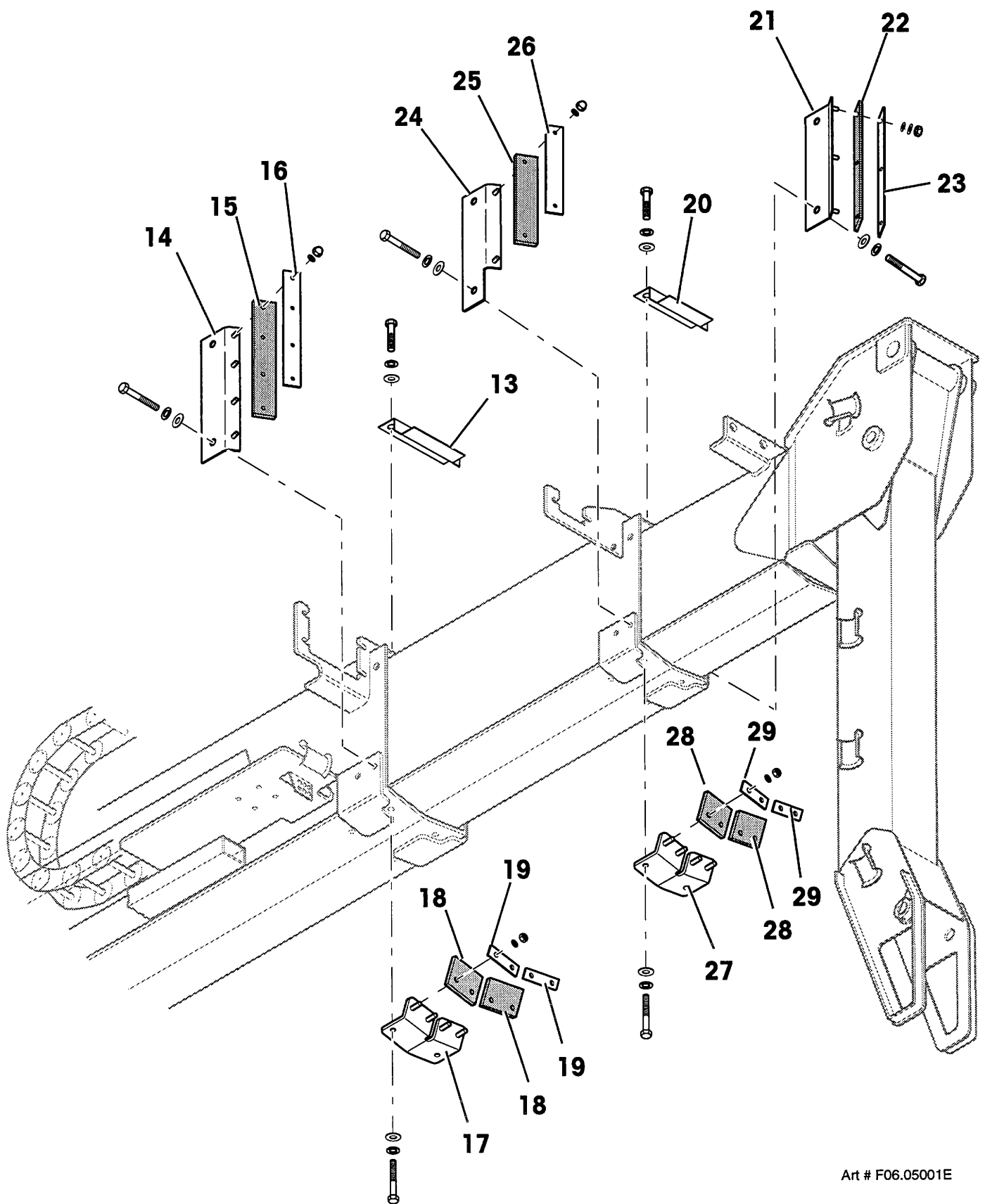
TITLE

HOSTILE ENVIRONMENT PACKAGE, RP 86

SECTION **F06.** PLATE NO. **05** PAGE **02** REV. **A** DATED 21 JUN., 1996 PART NO. **354 4870**



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Art # F06.05001E



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TITLE

HOSTILE ENVIRONMENT PACKAGE, RP 86

PART
NO.

354 4870

REV. A

DATED
21 JUN., 1996

SECTION

F06.

PLATE NO.

05

PAGE

02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	10-130600		DECAL, "DANGER" (Hazard listing, at Ground controls)	1
2	10-145100		DECAL, "DANGER" (Electrocution)	2
3	10-142100		DECAL, "DANGER" (Hazard listing, at Platform controls)	1
4	10-269200		DECAL, "WARNING" (Controller board diagram)	1
5	10-268400		DECAL, "CAUTION" (Axle jack and extend/ retract controls) Later version includes "Tires must be straight . . ." text	1
6	10-272500		Earlier version does not include "Tires must be straight . . ." text	
7	10-271100		DECAL, "TIRES TO BE STRAIGHT . . ." (with earlier Axle jack decal)	1
8	10-094700		DECAL, "CAUTION" ("Do not shift . . . driving") (for 4WD versions)	
9	10-094900		DECAL, "CAUTION, HOT WATER . . ." (for versions with liquid cooled engine)	1
10	10-266700		DECAL, "CAUTION, ROTATING FAN . . ." (for versions with liquid cooled engine)	1
11	10-012600		DECAL, USER ASSIST DIAGNOSTIC SYSTEM	1
12	10-117900 10-151100		DECAL, "OPEN HYDRAULIC TANK VALVES . . ."	1
13	10-151300		PLACARD, FUEL "GASOLINE ONLY"	2
14	10-264200		"DIESEL FUEL ONLY"	
15	10-265200		PLACARD, "HYDRAULIC FLUID ONLY"	2
16	10-272100		DECAL, GROUND ELECTRICAL CONTROLS	1
17	10-007200		PLATE, REMOTE CONTROL PENDANT	1
18			DECAL, "FUNCTION/ POWER"	1
			DECAL, "ENSURE LOCK PIN IS DISENGAGED . . ."	2
			DECAL, "Platform capacity . . ." (4-1/2" [114 mm] wide, black letters on white background)	4
	10-149000 10-148300		"550 Lbs (250 Kg)" (with 36" x 60" platform) "500 Lbs (225 Kg)" (with 36" x 96" platform)	
19	10-012900		DECAL, "FORWARD" WITH ARROW	2
20	10-268500		DECAL, "AXLE JACK AND EXTEND CONTROLS"	1
21	10-268600		DECAL, TORQUE AXLE BOLTS	8
22	10-263800 10-272000		PLACARD, PLATFORM CONTROLS Standard (Lexan) Optional (Stencil-cut aluminum)	1
23	10-241400 10-139800		SPACER (needed with aluminum control placard)	9
			DECAL, "OPERATOR'S MANUAL ENCLOSED"	1

TITLE

DECALS, RP 86

SECTION **F99.** PLATE NO. **204** PAGE **01** REV. **A** DATED 21 JUN., 1996 PART NO.

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PARTS LIST

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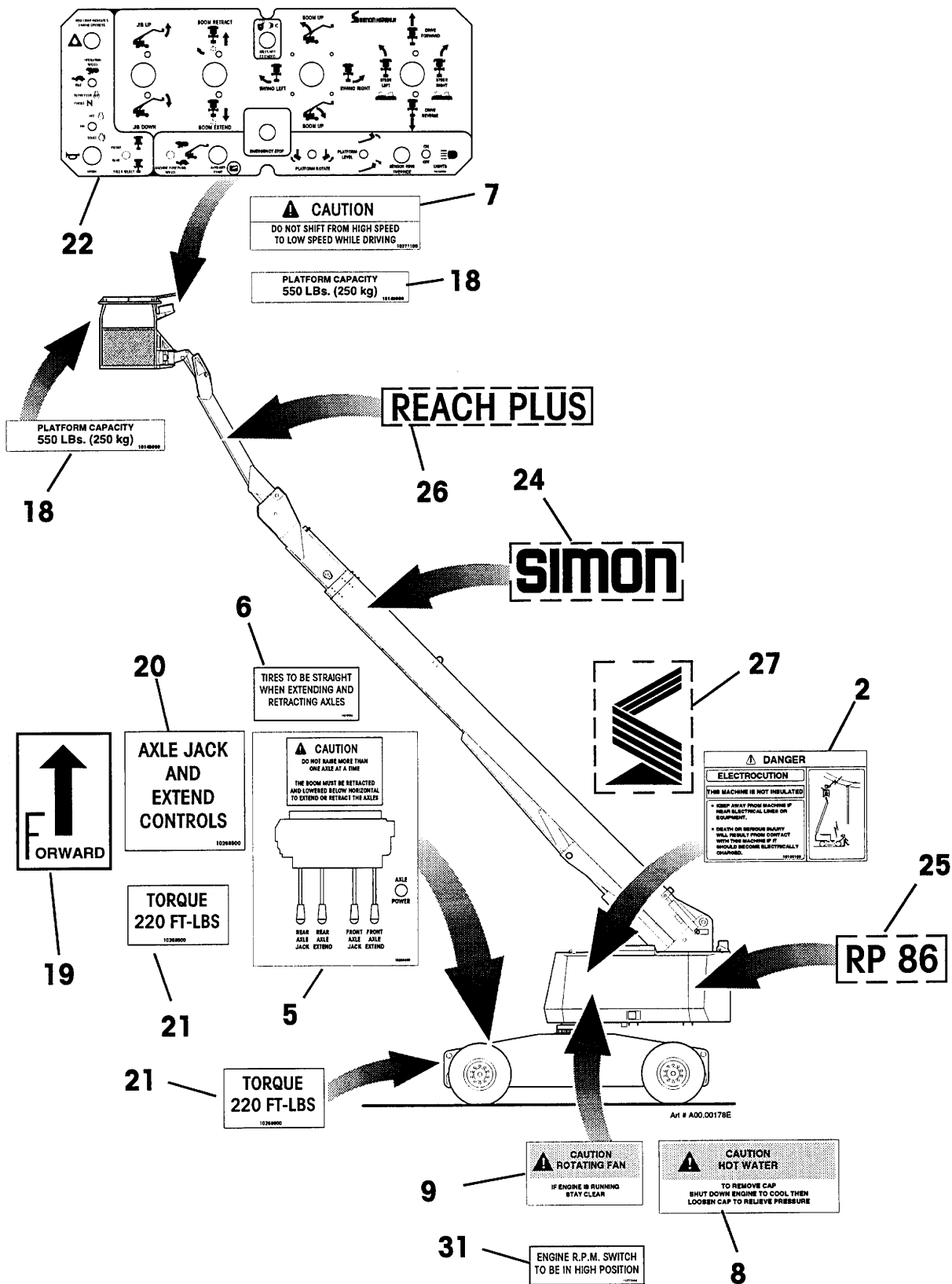
TITLE

DECALS, RP 86

SECTION	F99.	PLATE NO.	204	PAGE	02	REV.	A	DATED	21 JUN., 1996	PART	NO.
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Right (Engine) side. See previous page for Left side decals.



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TITLE

DECALS, RP 86

PART
NO.

REV.

A

DATED

21 JUN., 1996

SECTION

F99.

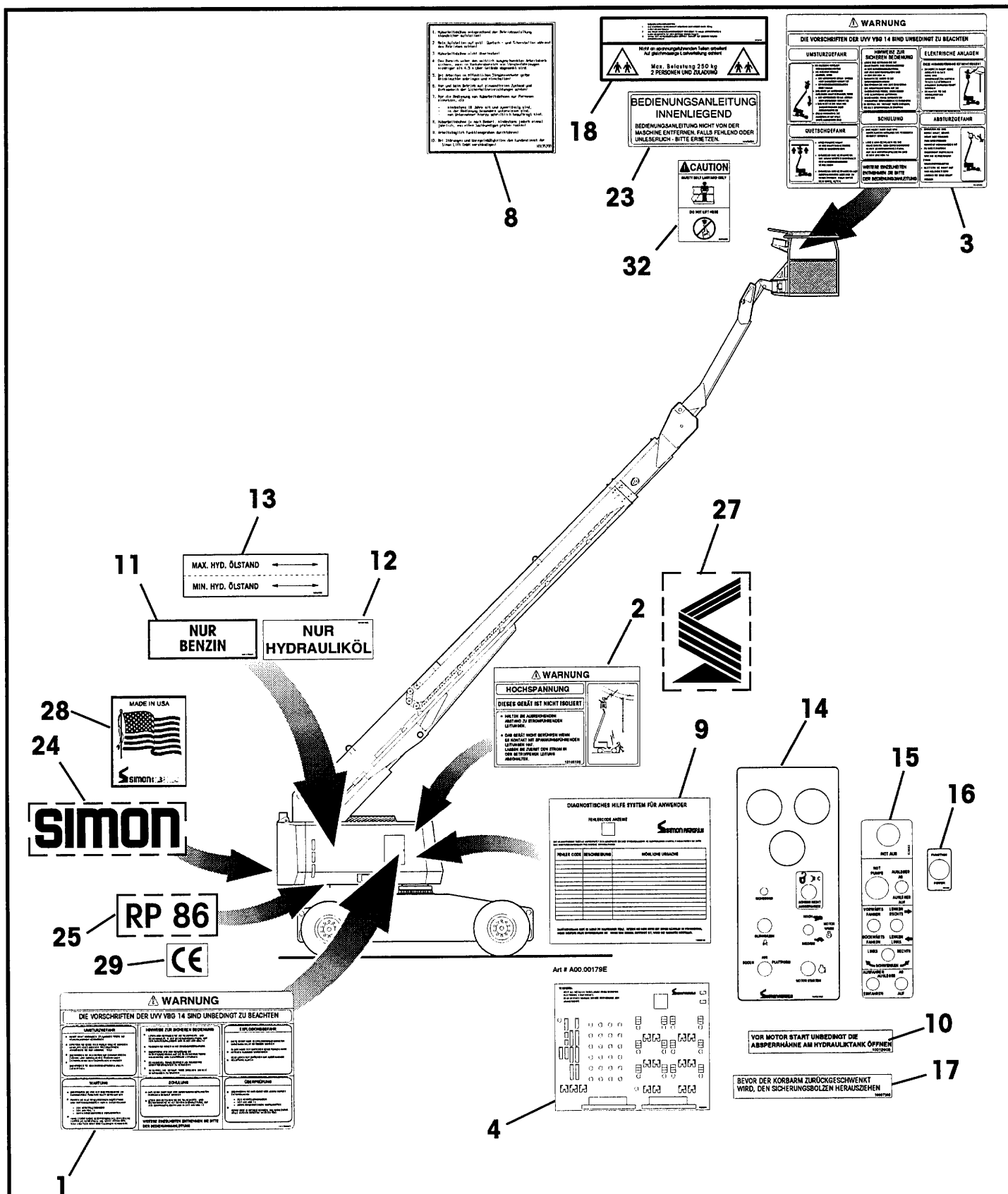
PLATE NO.

204

PAGE

02

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	10-130603		DECAL, "WARNUNG, DIE VORSCHRIFTEN . . ." (Hazard listing at Ground controls, in German language)	1
2	10-145103		DECAL, "WARNUNG, HOCHSPANNUNG . . ." (Electrocution hazard, in German language)	2
3	10-142103		DECAL, "WARNUNG, DIE VORSCHRIFTEN . . ." (Hazard listing at Platform controls, in German language)	1
4	10-269200		DECAL, "WARNING" (Controller board diagram, English language)	1
5	10-268403		DECAL, "VORSICHT, NIEMALS MEHR ALS . . ." ("CAUTION, do not raise more than one axle . . .", in German language)	1
6	10-271103		DECAL, "VORSICHT, WÄHREND DER FAHRT . . ." ("CAUTION, Do not shift . . . while driving", in German language) (for 4WD versions)	1
7	10-141503		DECAL, EMERGENCY LOWERING (in German language)	1
8	10-135203		DECAL, "1. HUBARBEITSBÜHNE ENTSPRECHEND . . ." (Ten step listing, in German language)	
9	10-266703		DECAL, "DIAGNOSTISCHES HILFE SYSTEM FÜR ANWENDER . . ." ("User assist diagnostic system . . .", in German language)	1
10	10-012603		DECAL, "VOR MOTOR START . . ." ("Open hydraulic tank valves . . .", in German language)	1
11			PLACARD, FUEL	2
	10-117903		"NUR BENZIN" ("Gasoline only", in German language)	
	10-151103		"NUR DIESEL" ("Diesel fuel only", in German language)	
12	10-151303		PLACARD, "NUR HYDRAULIKÖL" ("Hydraulic fluid only", in German)	2
13	10-267703		DECAL, "MAX./ MIN. HYD. ÖLSTAND" (Two part, Hydraulic fluid level, in German language)	1
14	10-264203		PLACARD, GROUND ELECTRICAL CONTROLS (in German language)	1
15	10-265203		PLACARD, REMOTE CONTROL PENDANT (in German language)	1
16			DECAL, "FUNCTION/ POWER"	1
	10-272100		In English language	
	10-272103		In German language	
17	10-007203		DECAL, "BEVOR DER KORBARM ZURÜCK . . ." ("Ensure lock pin is disengaged . . .", in German language)	3
18			DECAL, "MAX. BELASTUNG . . ." ("Platform capacity", in German)	1
	10-149703		"250 Kg, 2 personen und zeladung" (with 36" x 60" platform)	
	10-145303		"225 Kg, 2 personen und zeladung" (with 36" x 96" platform)	
19	10-012903		DECAL, "VORWÄRTS" WITH ARROW ("Forward", in German)	2
20	10-268503		DECAL, "STEUERUNG ACHSE HEBEN UND AUSFAHREN" ("Axle jack and extend controls", in German)	1
21	10-268603		DECAL, "DREHMOMENT 30 kg-m" (Axle bolt torque, in German)	8
22	10-263803		PLACARD, PLATFORM CONTROLS (in German language)	1
23	10-139803		DECAL, "BEDIENUNGSANLEITUNG INNENLIEGEND . . ." ("Operator's manual enclosed . . .", German language)	1
TITLE			DECALS, RP 86 (GERMAN LANGUAGE)	
SECTION	F99.	PLATE NO.	205	PAGE 01
REV.	-	DATED	19 JUN., 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	



Left (Control) side. See following page for Right side decals.

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