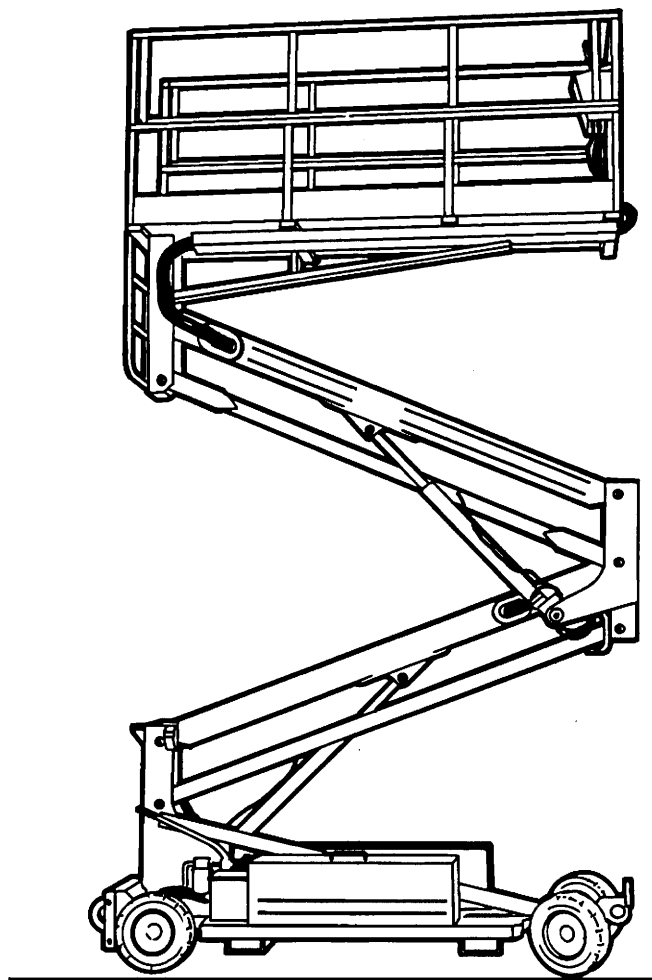


SKYHAWK SERIES
2031E, 2234E, 2248E
VERTICAL LIFT

 **TEREX AERIALS**
Milwaukee, Wisconsin

ILLUSTRATED PARTS CATALOG

FOR MACHINE
SERIAL NUMBER



Part No. 89-790005 • Revision "A.2", dated Nov., 1994 •

TABLE OF CONTENTS

INTRODUCTION

PRIMARY MACHINE COMPONENT GROUPS

SECTION 1: UNDERCARRIAGE

01.52: UNDERCARRIAGE ASSEMBLY

SECTION 3: BOOM

03.52: BOOM ASSEMBLY

SECTION 4: PLATFORM

04.52: PLATFORM ASSEMBLY

SECTION 6: VALVE BANK

06.51: DIRECTIONAL CONTROL VALVE ASSEMBLY

06.52: CONTROL VALVE ASSEMBLY

SECTION 9: PLATFORM CONTROL CONSOLE

09.52: PLATFORM CONTROL CONSOLE

SECTION 11: CYLINDERS

11.54: STEER CYLINDER

11.55: LIFT CYLINDER

SECTION 22: BRAKE/ SPEED REDUCER

22.51: BRAKE ASSEMBLY

SECTION 24: HYDRAULIC TANK

24.52: HYDRAULIC TANK ASSEMBLY

SECTION 26: HYDRAULIC MOTORS

26.51: DRIVE MOTOR ASSEMBLY

SECTION 27: VALVES

27.52: MOTION CONTROL VALVE ASSEMBLY

SECTION 29: CONTROLLER

29.09: DRIVE CONTROL HANDLE ASSEMBLY

TABLE OF CONTENTS (CONTINUED)

SECTION 30: MISCELLANEOUS ELECTRICAL

30.51: ALARM PACKAGE

SECTION 31: ELECTRIC MOTORS

31.51: ELECTRIC MOTOR ASSEMBLY

SECTION 99: DECALS

99.52: DECALS

INTRODUCTION

This Illustrated Parts Catalog is designed to help you identify and order the correct replacement parts for use on SIMON SKYHAWK "Z" TYPE SELF-PROPELLED WORK PLATFORMS. All parts represented here are manufactured and supplied in accordance with Simon Aerials quality standards. We recommend that you use GENUINE SIMON AERIALS PARTS to insure maximum SAFETY and PERFORMANCE.

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

HOW TO USE THIS CATALOG

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

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

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

The Parts Catalog is divided into "Sections", numbered from 1 through 99. Each section contains the individual parts that make up a major component, assembly or item. The first three sections (1, 3 and 4) contain the major assemblies, or "Primary Machine Component Groups". Sections that follow contain sub-assemblies or components of these "major" assemblies.

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

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

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

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

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

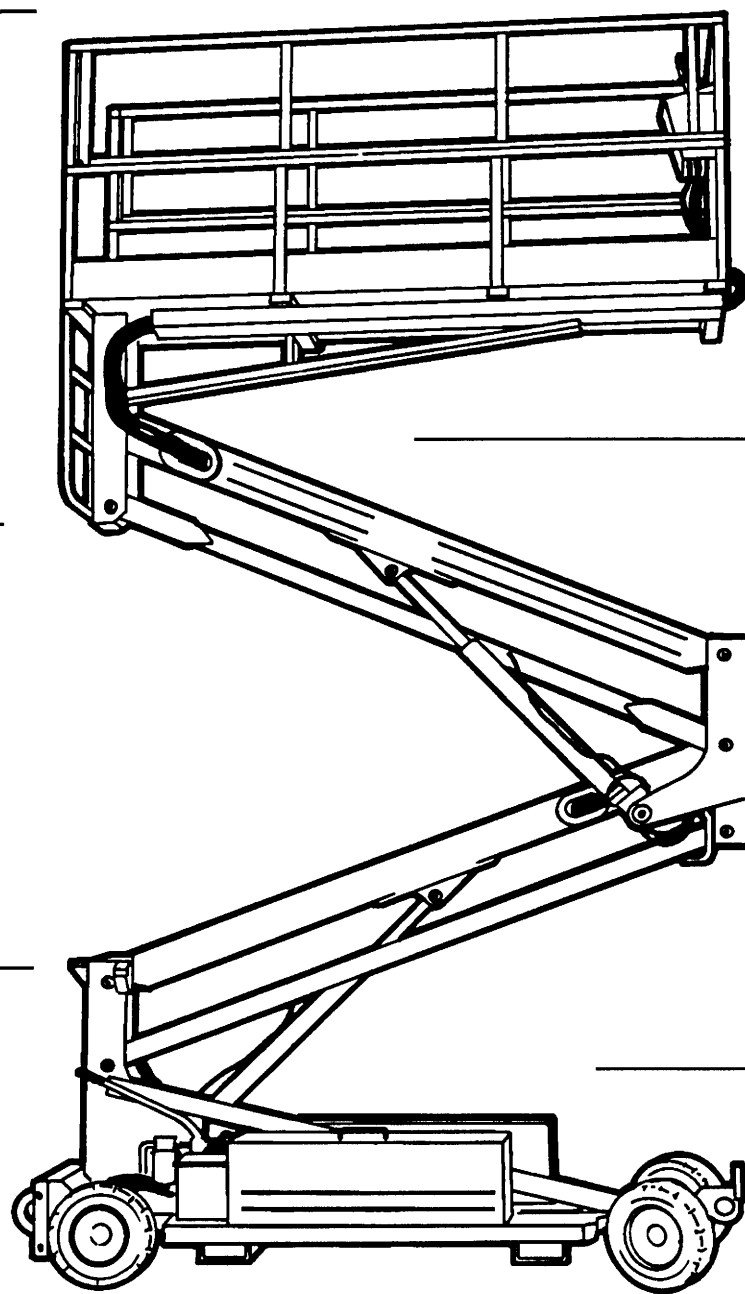
Some assembled items, such as hydraulic cylinders, may have been supplied by more than one source. While the assemblies may be able to be used interchangeably, FOR SAFETY'S SAKE, do not mix components or repair kits. Please confirm the make of the assembly on the unit before ordering or installing replacement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

Left and right-hand, front and rear should be determined as though you are standing at the Platform Control Console, with the Platform rails up. 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 unitst.

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.

**PLATFORM
SECTION 4**



**BOOM
SECTION 3**

**UNDERCARRIAGE
SECTION 1**

TITLE

PRIMARY MACHINE COMPONENT GROUPS

SIMON AERIALS INC.

REV., 09-JAN., 1992

PART
NO.PLATE
NO.

PARTS LIST

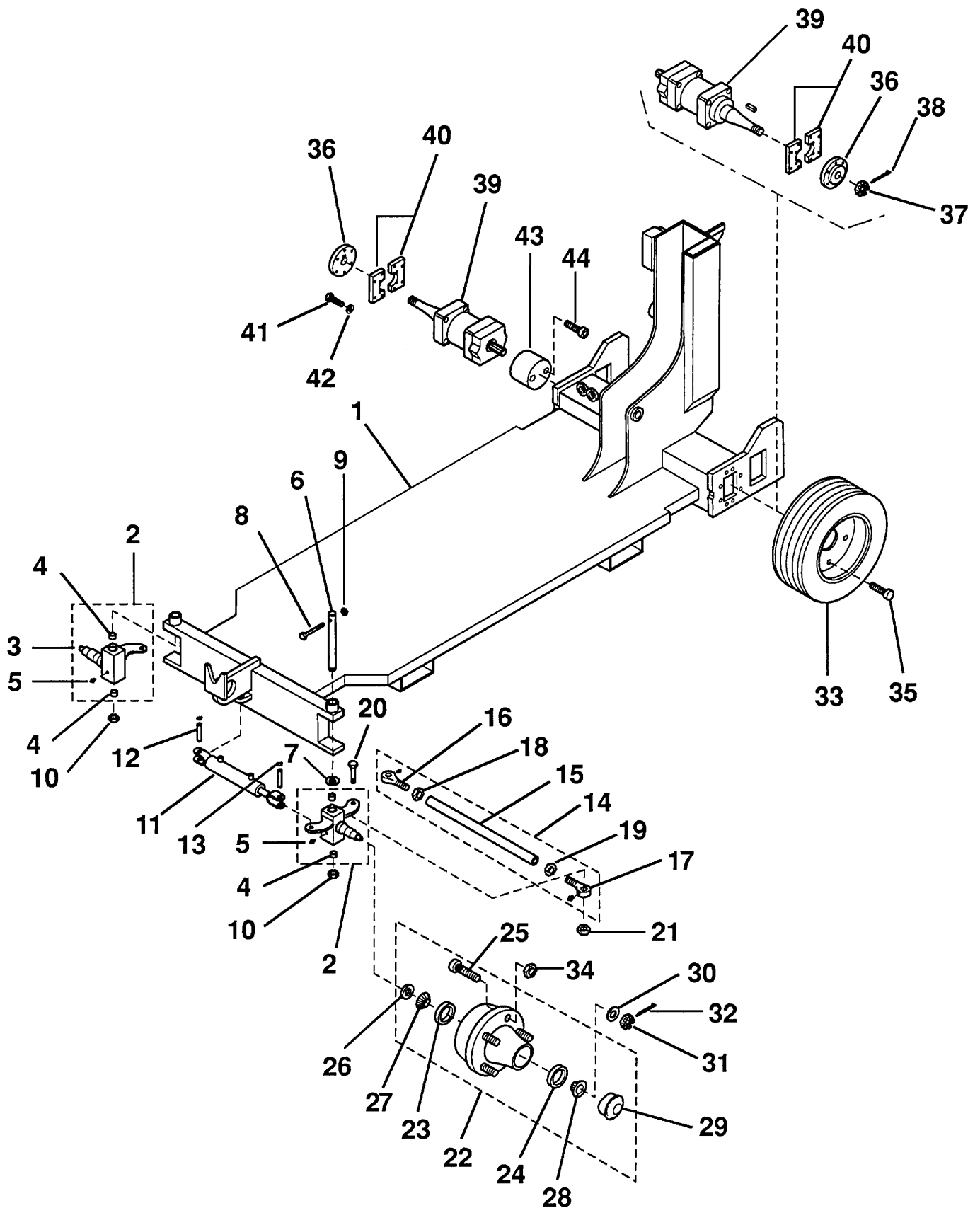
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2124230		UNDERCARRIAGE WELDMENT (for Model 2031E)	1
	2122650		UNDERCARRIAGE WELDMENT (for Model 2234E)	1
	2132820		UNDERCARRIAGE WELDMENT (for Model 2248E)	1
2	3512130		SPINDLE ASSEMBLY (Right)	1
	3512140		SPINDLE ASSEMBLY (Left)	1
3	2120300		SPINDLE WELDMENT (Right)	1
	2120310		SPINDLE WELDMENT (Left)	1
4	08-060400		BUSHING (1" I.D., 1-1/4" O.D., 1" long)	2
5	08-050000		FITTING, GREASE (1/8", 90°)	1
6	2120480		PIN, SPINDLE (1" x 10-1/8")	2
7	08-060500		BEARING, THRUST (Oilite, 1" I.D., 2" O.D.)	2
8	07-003010		CAP SCREW, HEX HEAD (1/4"-20 x 2-1/4", Grade 5)	2
9	07-050014		NUT, HEX LOCK (1/4"-20)	2
10	08-040600		RING, RETAINING (1")	4
11	04-027700		CYLINDER, STEER	1
	04-027701		SEAL KIT, STEER CYLINDER	1
12	2120620		PIN, STEER CYLINDER (3/4" x 3-11/16")	2
13			RING, RETAINING (3/4")	4
14	3512840		ROD ASSEMBLY, TIE (for Model 2031E)	1
	3512790		ROD ASSEMBLY, TIE (for Model 2234E)	1
	3514120		ROD ASSEMBLY, TIE (for Model 2248E)	1
15	2120570		ROD, TIE (for Model 2031E)	1
	2120470		ROD, TIE (for Model 2234E)	1
	2132780		ROD, TIE (for Model 2248E)	1
16	08-044400		END, TIE ROD (Right hand thread)	1
17	08-044500		END, TIE ROD (Left hand thread)	1
18	07-047121		NUT, JAM (5/8"-18, right hand thread)	1
19	07-047221		NUT, JAM (5/8"-18, left hand thread)	1
20	07-003131		SCREW, HEX HEAD (5/8"-11 x 2-1/2", Grade 5)	2
21	07-050021		NUT, LOCK (5/8"-11, Grade 5)	2
22	02-019800		HUB ASSEMBLY, FRONT	2
23			CUP, FRONT INNER BEARING	1
24			CUP, FRONT OUTER BEARING	1
25	02-019805		STUD, FRONT WHEEL MOUNTING	5
26	02-019802		SEAL	1
27	02-019804		CONE AND ROLLER, FRONT INNER BEARING	1
28	02-019803		CONE AND ROLLER, FRONT OUTER BEARING	1
39	02-019801		CAP, FRONT HUB	1
30	02-019503		WASHER, FLAT	2
31	02-019501		NUT	2
32	02-019502		PIN, COTTER	2

TITLE UNDERCARRIAGE, SKYHAWK 2031E, 2234E, 2248E (PLATE 1 OF 3)

PLATE NO. 01.52 **SIMON AERIALS INC.**

REV. 04 FEB., 1992

PART NO.



TITLE UNDERCARRIAGE, SKYHAWK 2031E, 2234E, 2248E (PLATE 1 OF 3)

SIMON AERIALS INC.

REV. 04 FEB., 1992

PART
NO.

PLATE
NO.

01.52

PARTS LIST

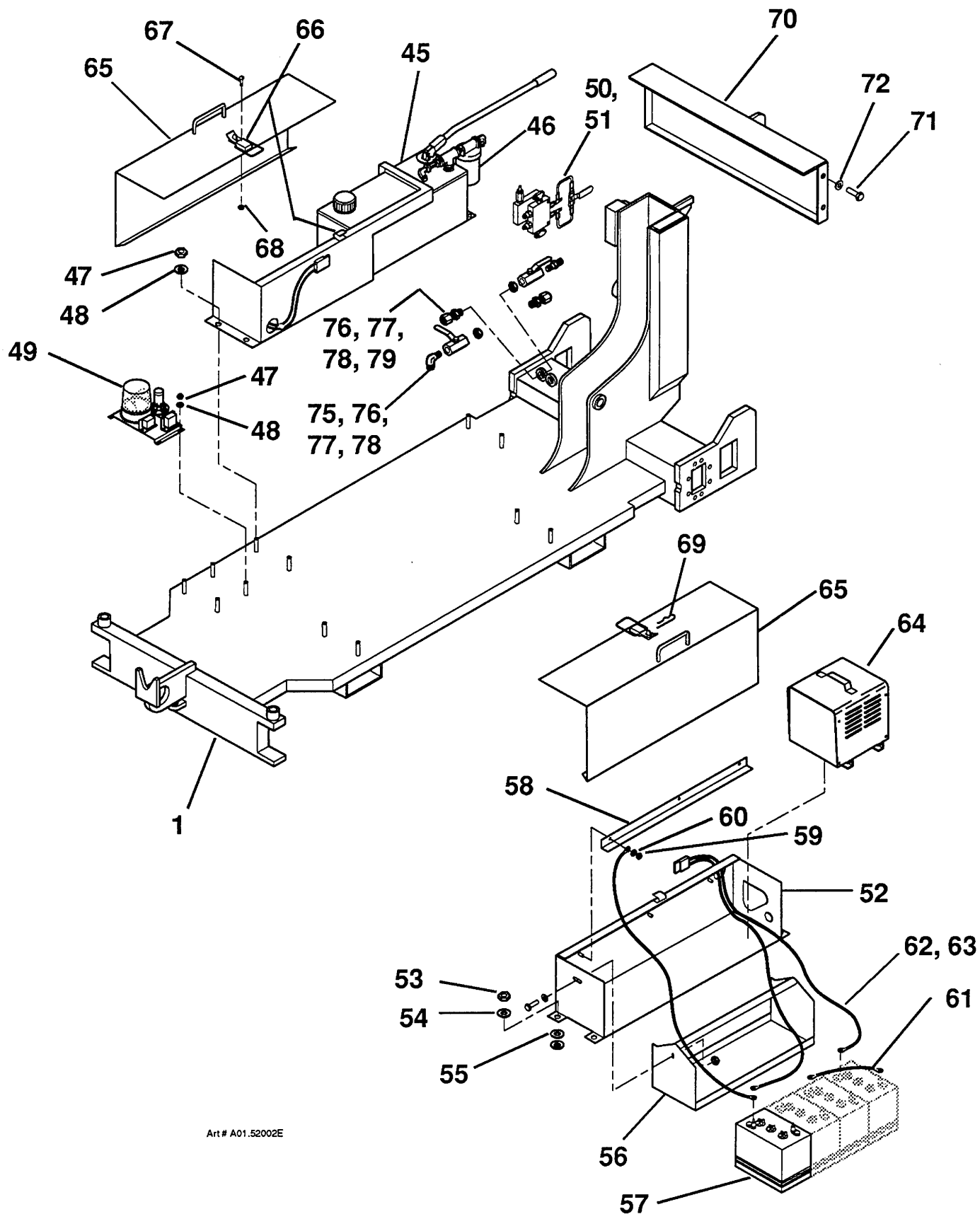
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
33			WHEEL AND TIRE ASSEMBLY (4" x 8")	4
	02-019700		With black lugged tire	
	02-031200		With black ribbed tire	
	02-031000		With white "non marking" tire	
34	07-090134		NUT, LUG (1/2"-20)	10
35	07-090133		BOLT, REAR WHEEL MOUNTING (1/2"-20 x 1")	10
36	02-019600		HUB, REAR	2
37	01-081608		NUT	2
38	07-070506		PIN, COTTER (1/8" x 1-1/4")	2
39	01-081600	26.51	MOTOR, DRIVE	2
40	2120260		PLATE, MOTOR MOUNTING (includes two halves)	2
41	07-003087		SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	24
42	07-065018		WASHER, HELICAL LOCK (1/2")	24
43	02-019200	22.51	BRAKE	1
44	07-090132		SCREW, SOCKET HEAD (1/2"-13 x 4")	2
45	See index	24.--	TANK ASSEMBLY, HYDRAULIC	1
46	01-081501		ELEMENT, FILTER	1
47	07-050015		NUT, STOP (5/16"-18)	8
48	07-062015		WASHER, FLAT (5/16")	8
49	2158510	30.51	ALARM ASSEMBLY	1
50	3518970	27.52	VALVE ASSEMBLY, MOTION CONTROL	1
51			SCREW	2
52	2123760		HOUSING WELDMENT, BATTERY	1
53	07-050016		LOCKNUT, TOP (3/8"-16, Grade 5)	4
54	07-062016		WASHER, FLAT (3/8")	4
55	07-060022		WASHER, FLAT (3/4" SAE)	4
56	2123700		TRAY WELDMENT, BATTERY	1
57	03-465500		BATTERY (6 Volt DC)	4
58	2123720		HOLD DOWN, BATTERY	1
59	07-050016		NUT, LOCK (3/8"-16)	3
60	07-060016		WASHER, FLAT (3/8")	3
61	03-406400		CABLE, BATTERY	3
62	2124310		CABLE ASSEMBLY, BATTERY TO JUNCTION	1
63	03-406800		CONNECTOR	1
64	03-470000		CHARGER, BATTERY (24 V DC, 60 HZ, 25 Amp, 115 V AC)	1
65	2123820		COVER, COMPARTMENT	2
66	10-030100		LATCH, DOOR (Draw pull latch)	2
67	07-013414		SCREW, ROUND HEAD (#10-32 x 1/2")	4
68	07-050111		NUT, STOP (#10-32)	4
69			PIN, COTTER	2

TITLE UNDERCARRIAGE, SKYHAWK 2031E, 2234E, 2248E (PLATE 2 OF 3)

PLATE NO. 01.52 **SIMON AERIALS INC.**

REV. 04 FEB., 1992

PART NO.



TITLE UNDERCARRIAGE, SKYHAWK 2031E, 2234E, 2248E (PLATE 2 OF 3)

SIMON AERIALS INC.

REV. 04 FEB., 1992

PART
NO.

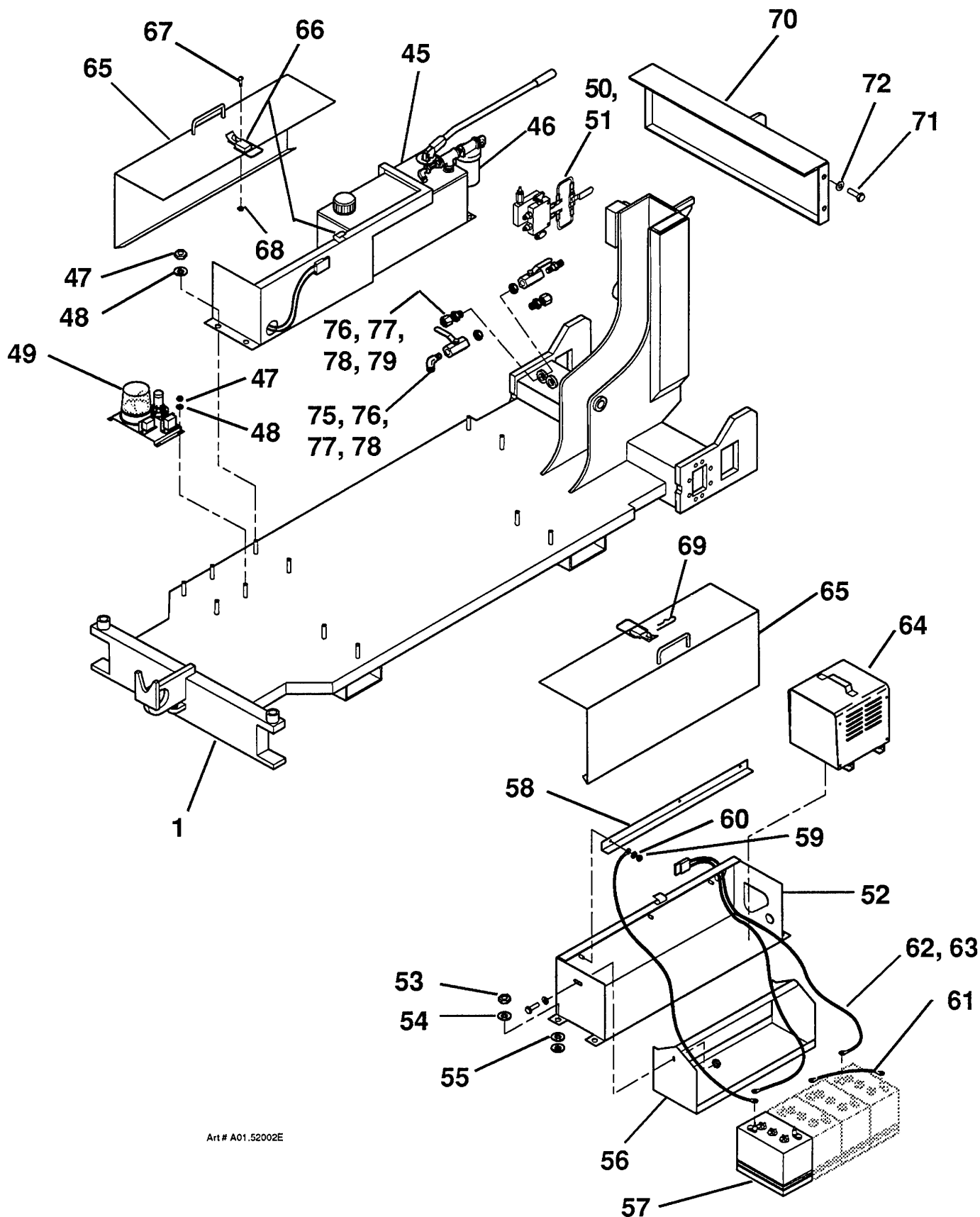
PLATE
NO.

01.52

[illegible]

PLATE NO.	01.52	SIMON AERIALS INC.
-----------	-------	--------------------

PART
NO.



TITLE UNDERCARRIAGE, SKYHAWK 2031E, 2234E, 2248E (PLATE 3 OF 3)

SIMON AERIALS INC.

REV. 04 FEB., 1992

PART
NO.

PLATE
NO. 01.52

PARTS LIST

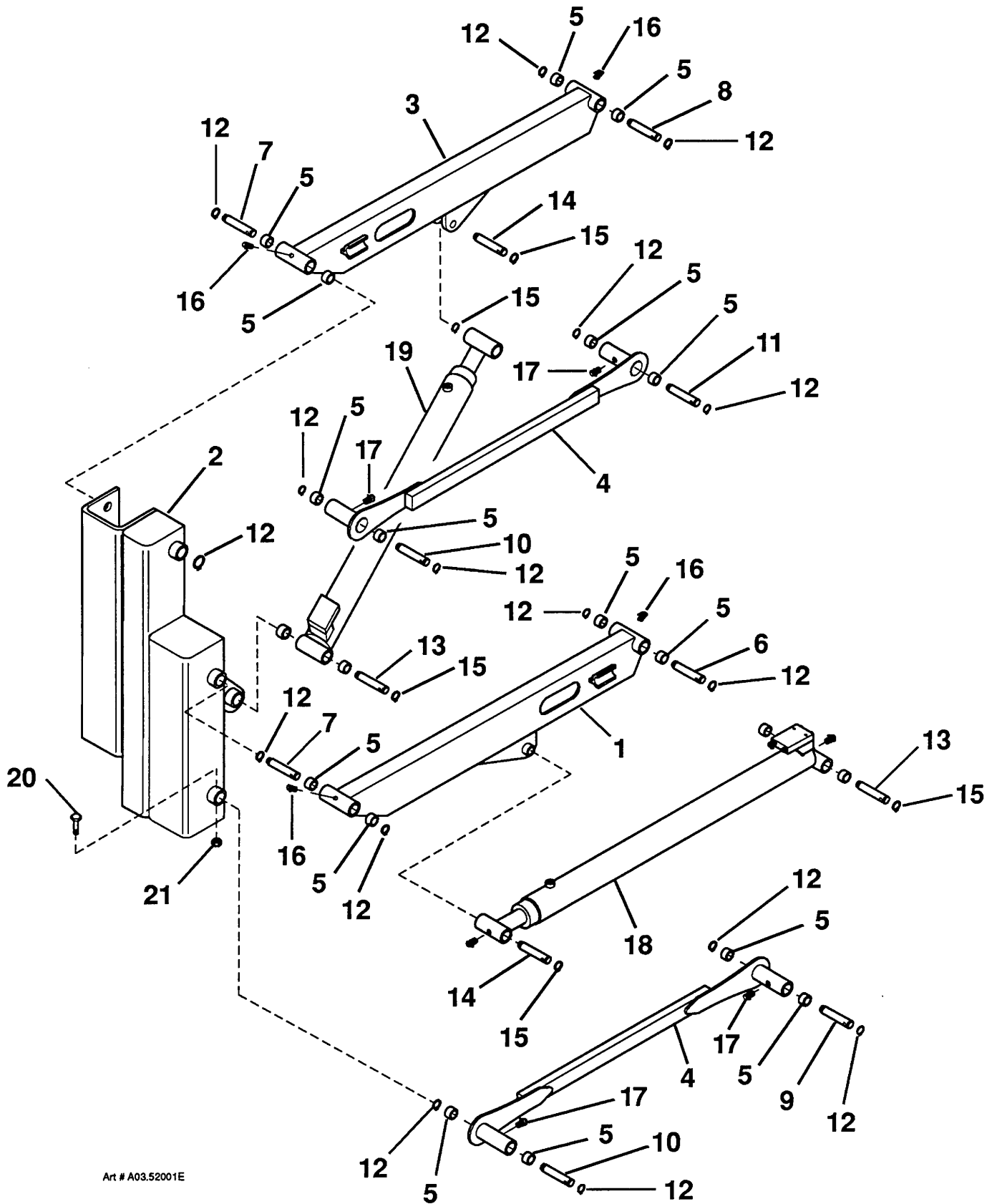
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2121270		BOOM WELDMENT, LOWER (for Model 2031E)	1
	2122690		BOOM WELDMENT, LOWER (for 2234E or 2248E)	1
2	2123800		MID-POST WELDMENT (for Model 2031E)	1
	2123770		MID-POST WELDMENT (for 2234E or 2248E)	1
3	2122370		BOOM WELDMENT, UPPER (for Model 2031E)	1
	2122700		BOOM WELDMENT, UPPER (for 2234E or 2248E)	1
4	3512970		ARM WELDMENT, PARALLEL (for Model 2031E)	2
	2121210		ARM WELDMENT, PARALLEL (for 2234E or 2248E)	2
5			BEARING, SLEEVE (1.503" I.D., 1.754" O.D., 1.500" long)	
	08-014000		Bearing has a flange	16
	08-066800		Bearing has no flange	16
6	2123100		PIN, BOOM (at lower post) (1-1/2" x 11-3/8")	1
7	2123120		PIN, BOOM (at mid post) (1-1/2" x 19-5/8")	2
8	2123110		PIN, BOOM (at upper post) (1-1/2" x 9-3/8")	1
9	2123080		PIN, PARALLEL ARM (at lower post) (1-1/2" x 10-7/8")	1
10	2123090		PIN, PARALLEL ARM (at mid post) (1-1/2" x 12-7/8")	2
11	2123130		PIN, PARALLEL ARM (at upper post) (1-1/2" x 8-7/8")	1
12	08-040900		RING, RETAINING (1-1/2")	14
13	2123140		PIN, BOOM LIFT CYLINDER (Base end) (1-1/4" x 8-13/16")	2
14	2123150		PIN, BOOM LIFT CYLINDER (Rod end) (1-1/4" x 5-7/16")	2
15	08-040700		RING, RETAINING (1-1/4")	8
16	08-051300		FITTING, GREASE (1/8", 90°) (optional with 45° fitting)	4
	08-050500		FITTING, GREASE (1/8", 45°) (optional with 90° fitting)	4
17	08-050000		FITTING, GREASE (1/8", straight) (optional with 45° fitting)	4
	08-050500		FITTING, GREASE (1/8", 45°) (optional with straight fitting)	4
18	04-027500	11.55	CYLINDER, LOWER BOOM LIFT	1
19	04-027500	11.55	CYLINDER, UPPER BOOM LIFT	1
20	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	11
21	07-050018		NUT, STOP (1/2"-13)	11
22	03-066400		TIE, CABLE [1/2" (12.7 mm) wide x 20" (51 cm) long]	12
23	03-064700		TIE, CABLE [3/8" (9.5 mm) wide x 14-1/2" (37 cm) long]	50
24	03-085600		CABLE, ELECTRICAL (Type SJO, 12 conductor, #16 AWG) [Bulk item, order as needed. 47' (14.33 M) this application]	A.R.
25	03-085900		CABLE, ELECTRICAL (Type SJO, 3 conductor, #12 AWG) [Bulk item, order as needed. 47' (14.33 M) this application]	A.R.
26	10-113000		PROTECTOR, HOSE [Neoprene, 8" x 12" x 1/8" (2 cm x 3 cm x 3 mm)]	2

TITLE BOOM ASSEMBLY, SKYHAWK 2031E, 2234E, 2248E

PLATE NO. 03.52 **SIMON AERIALS INC.**

REV. 17 DEC., 1991

PART NO.



TITLE BOOM ASSEMBLY, SKYHAWK 2031E, 2234E, 2248E

SIMON AERIALS INC.

REV. 17 DEC., 1991

PART
NO.

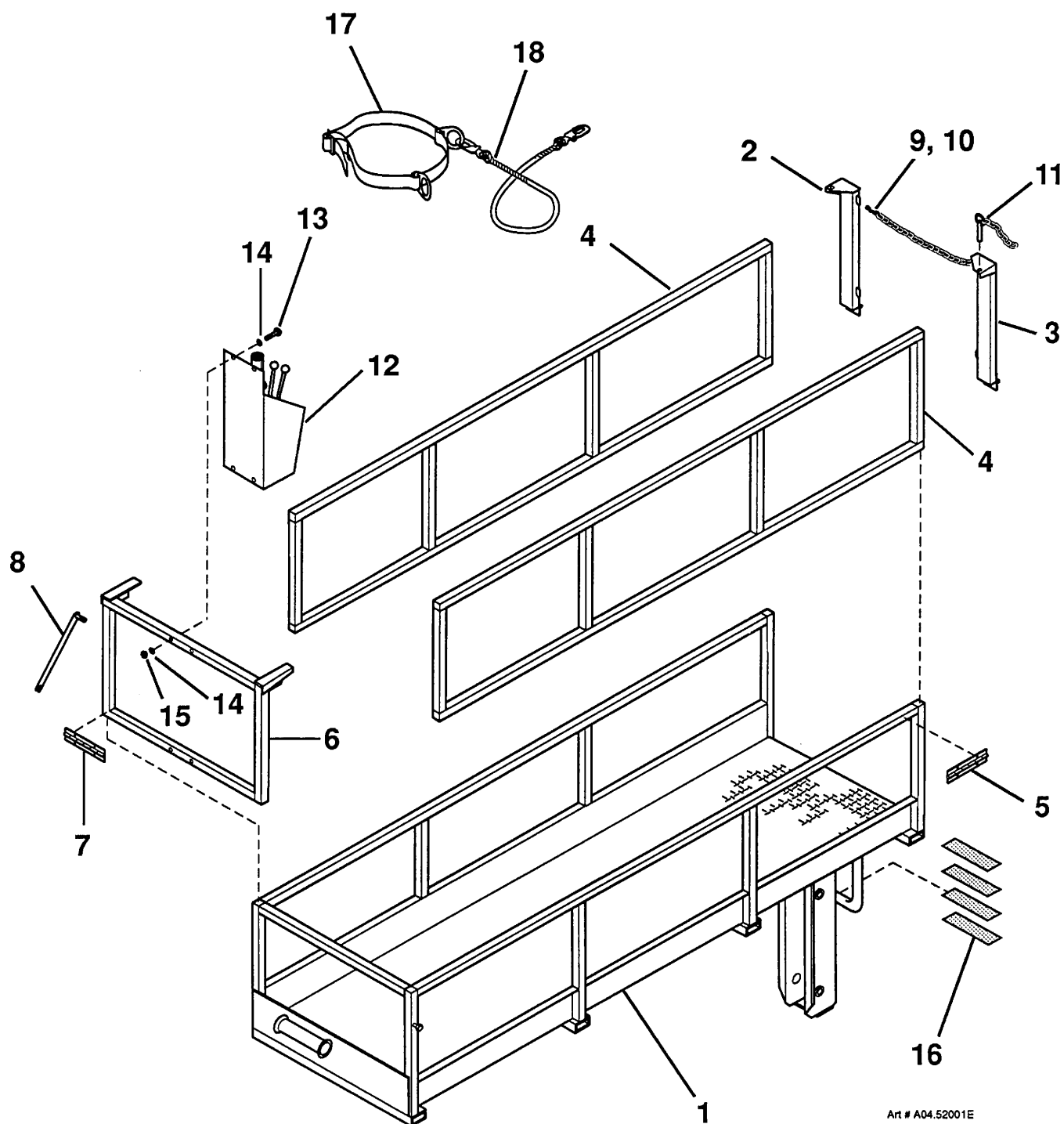
PLATE
NO.

03.52

[illegible]

TITLE		PLATFORM ASSEMBLY, SKYHAWK 2031E, 2234E, 2248E	
PLATE NO.	04.52	SIMON AERIALS INC. REV. 09 DEC., 1991	PART NO.

PART
NO.



Art # A04.52001E

TITLE PLATFORM ASSEMBLY, SKYHAWK 2031E, 2234E, 2248E

SIMON AERIALS INC.

REV. 09 DEC., 1991

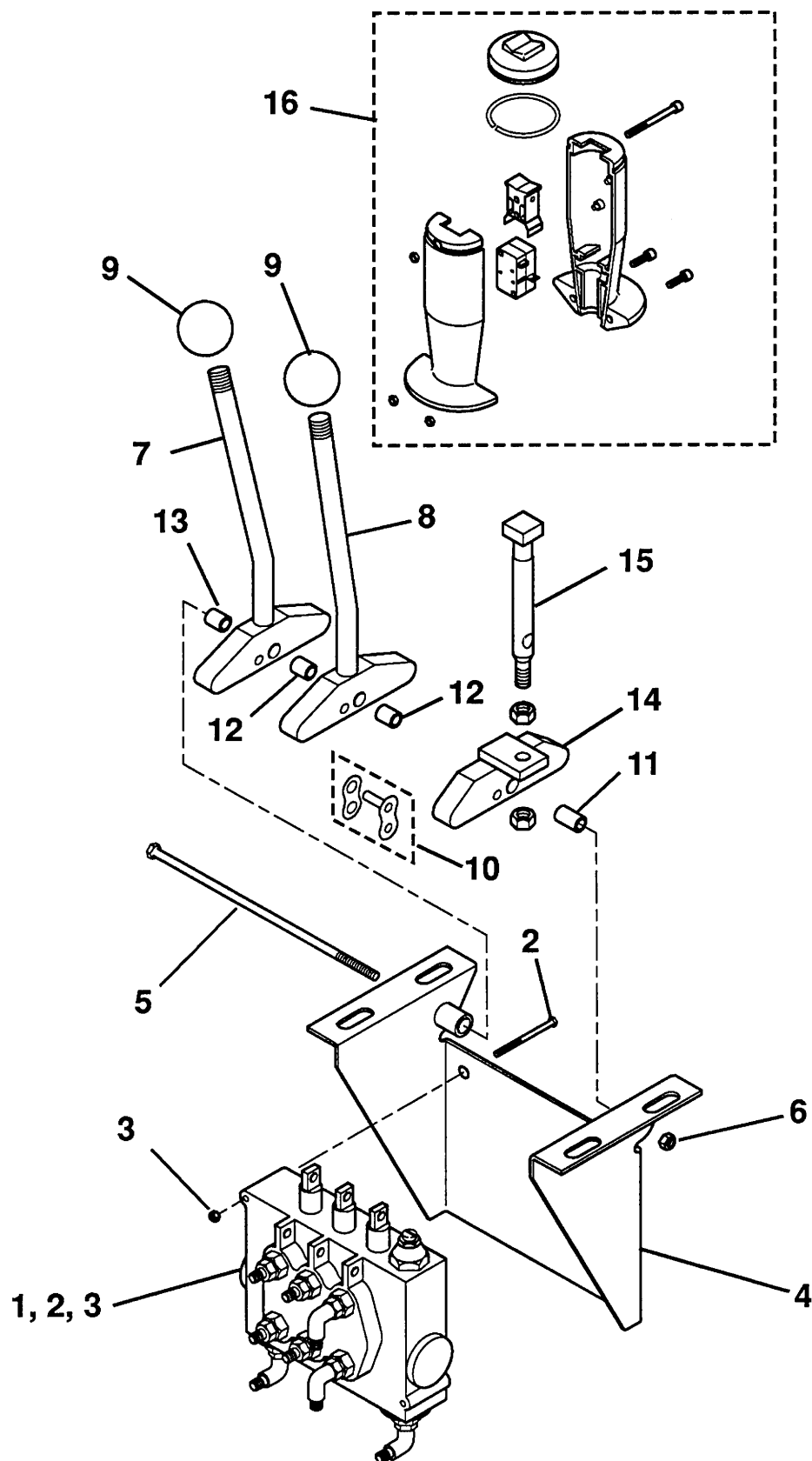
PART
NO.

PLATE
NO.

04.52

[illegible]

PLATE NO.	06.51	SIMON AERIALS INC.	REV. 30 DEC., 1991	PART NO.	3512820
-----------	-------	--------------------	--------------------	----------	---------



TITLE DIRECTIONAL CONTROL VALVE ASSEMBLY, SKYHAWK

SIMON AERIALS INC.

REV. 30 DEC., 1991

PART
NO.

3512820

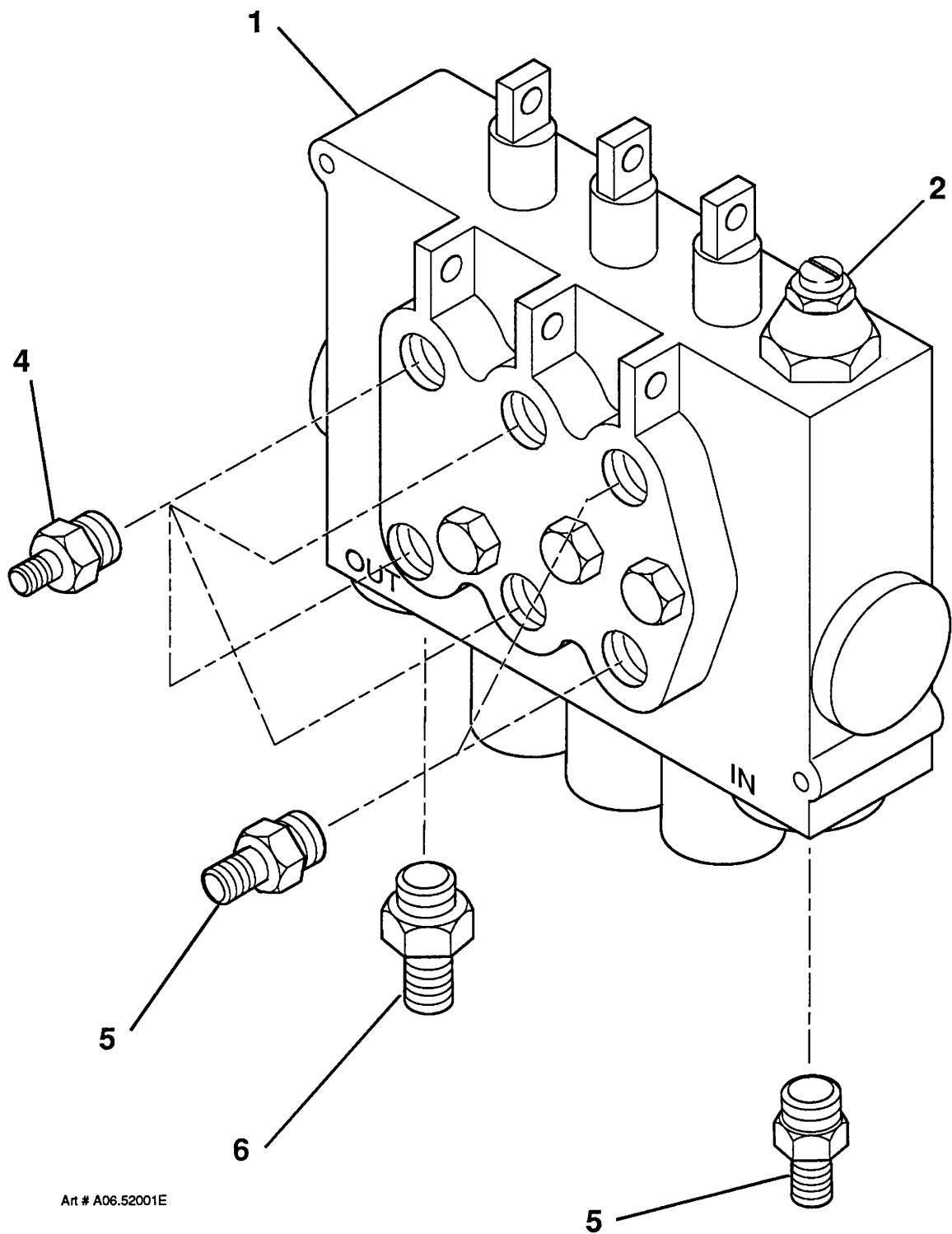
PLATE
NO.

06.51

[illegible]

CONTROL VALVE ASSEMBLY, SKYHAWK

PART NO. 3519000



TITLE

CONTROL VALVE ASSEMBLY, SKYHAWK

SIMON AERIALS INC.

REV. 30 DEC., 1991

PART
NO.

3519000

PLATE
NO.

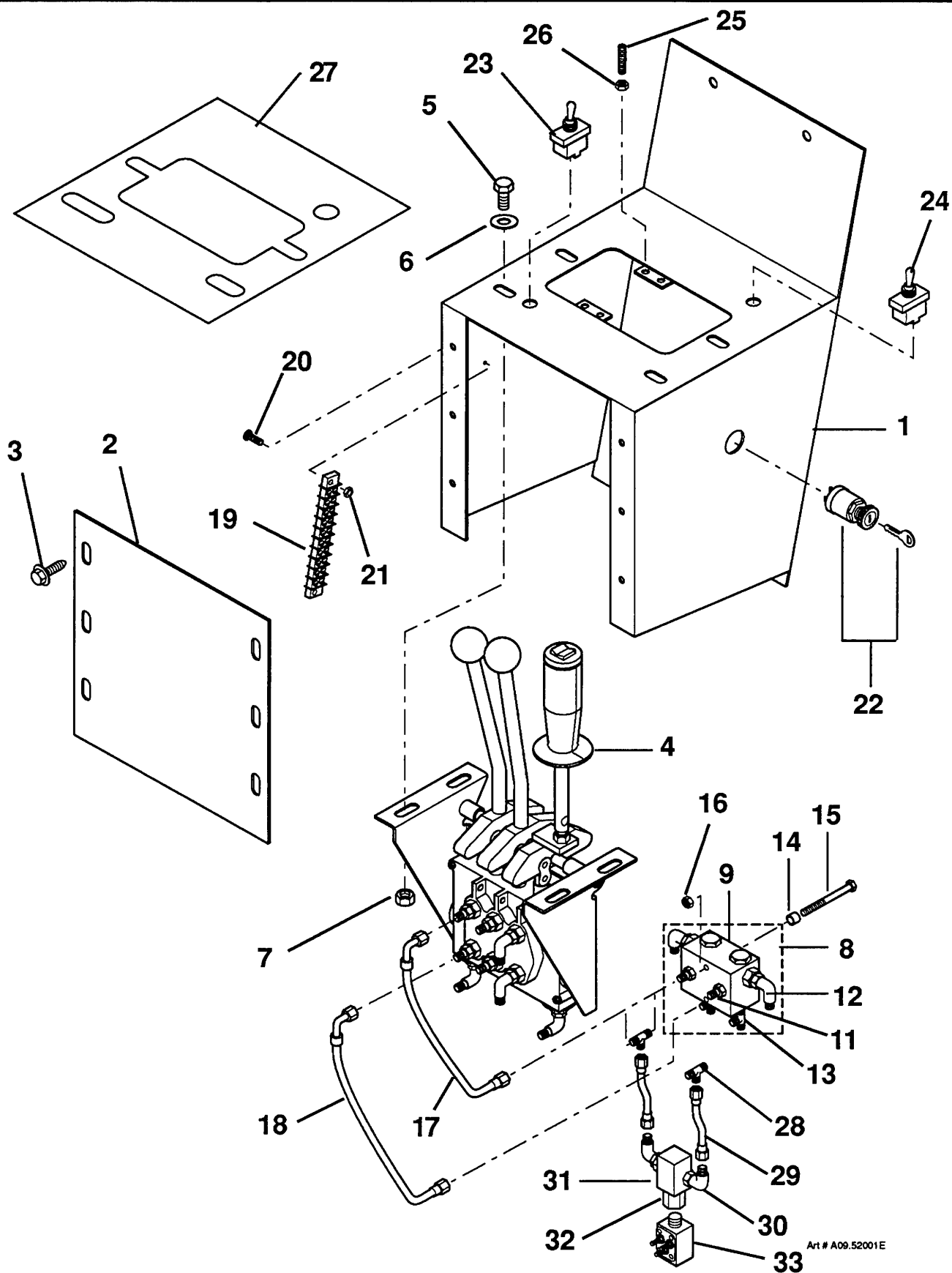
06.52

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2122420		CONSOLE WELDMENT, CONTROL	1
2	2122400		COVER, CONSOLE	1
3	07-029365		SCREW, HEX WASHER HEAD (#12 x 1" Self-drilling, sealed)	6
4	3512820	06.51	VALVE ASSEMBLY, DIRECTIONAL CONTROL	1
5	07-017025		SCREW, HEX SOCKET HEAD (5/16"-18 x 1")	4
6	07-062016		WASHER, FLAT (3/8")	8
7	07-050018		NUT, LOCK (5/16"-18)	4
8	3518950		MANIFOLD ASS'Y., PILOT OPERATED CHECK VALVE	1
9	01-078700		MANIFOLD, CHECK (Includes hydraforce valves)	1
10	01-078701		SEAL KIT, CHECK VALVE	1
11	06-039500		CONNECTOR, STRAIGHT THREAD (4-6 F50X)	2
12	06-044600		ELBOW, 90°, STRAIGHT THREAD (6 C50X)	2
13	06-048500		RUN TEE, STRAIGHT THREAD (6 R50X)	
14	2124830		SPACER	2
15	07-003015		CAP SCREW, HEX HEAD (1/4"-20 x 3-1/2", Grade 5)	2
16	07-005014		NUT, LOCK (1/4"-20)	2
17	2160450		TUBE ASSEMBLY (used with alarm option)	2
	3512370		HOSE ASSEMBLY (used without alarm option)	
			[8" (203 mm) long, 1/4" ends]	2
18	3512350		HOSE ASSEMBLY [13" (330 mm) long, 1/4" and 3/8" ends]	2
19	03-068000		BLOCK, TERMINAL (ten terminal)	1
20	07-011344		MACHINE SCREW, PAN HEAD (#8-32 x 3/4", Grade 2)	2
21	07-050009		NUT, STOP (#8-32, Grade 5)	2
22	03-427500		SWITCH, KEY OPERATED (includes two keys)	1
23	03-465000		SWITCH, PLATFORM CONTROL TOGGLE (Double pole)	1
24	03-465100		SWITCH, GROUND CONTROL TOGGLE (Single pole)	1
25	07-090065		SET SCREW, SOCKET HEAD (#10-24 x 1")	4
26	07-040011		NUT, HEX (#10-24, Grade 5)	4
27	10-087600		DECAL, PLATFORM CONTROL	1
			The following items are used with alarm options:	
28	06-054300		RUN TEE, SWIVEL NUT (4 R6X)	2
29	2160470		TUBE ASSEMBLY	2
30	06-044400		ELBOW, 90° (4-6 C50X)	2
31	01-013800		BLOCK	1
32	06-086600		ADAPTER, PIPE THREAD (6-4 F50)	1
33	03-603500		SWITCH, PRESSURE	1

TITLE PLATFORM CONTROL CONSOLE, SKYHAWK 2031E, 2234E, 2248E

PLATE NO. 09.52 **SIMON AERIALS INC.** REV. 30 DEC., 1991 **PART NO.** 3512500



Art # A09.52001E

TITLE PLATFORM CONTROL CONSOLE, SKYHAWK 2031E, 2234E, 2248E

SIMON AERIALS INC.

REV. 30 DEC., 1991

PART
NO.

3512500

PLATE
NO.

09.52

[illegible]

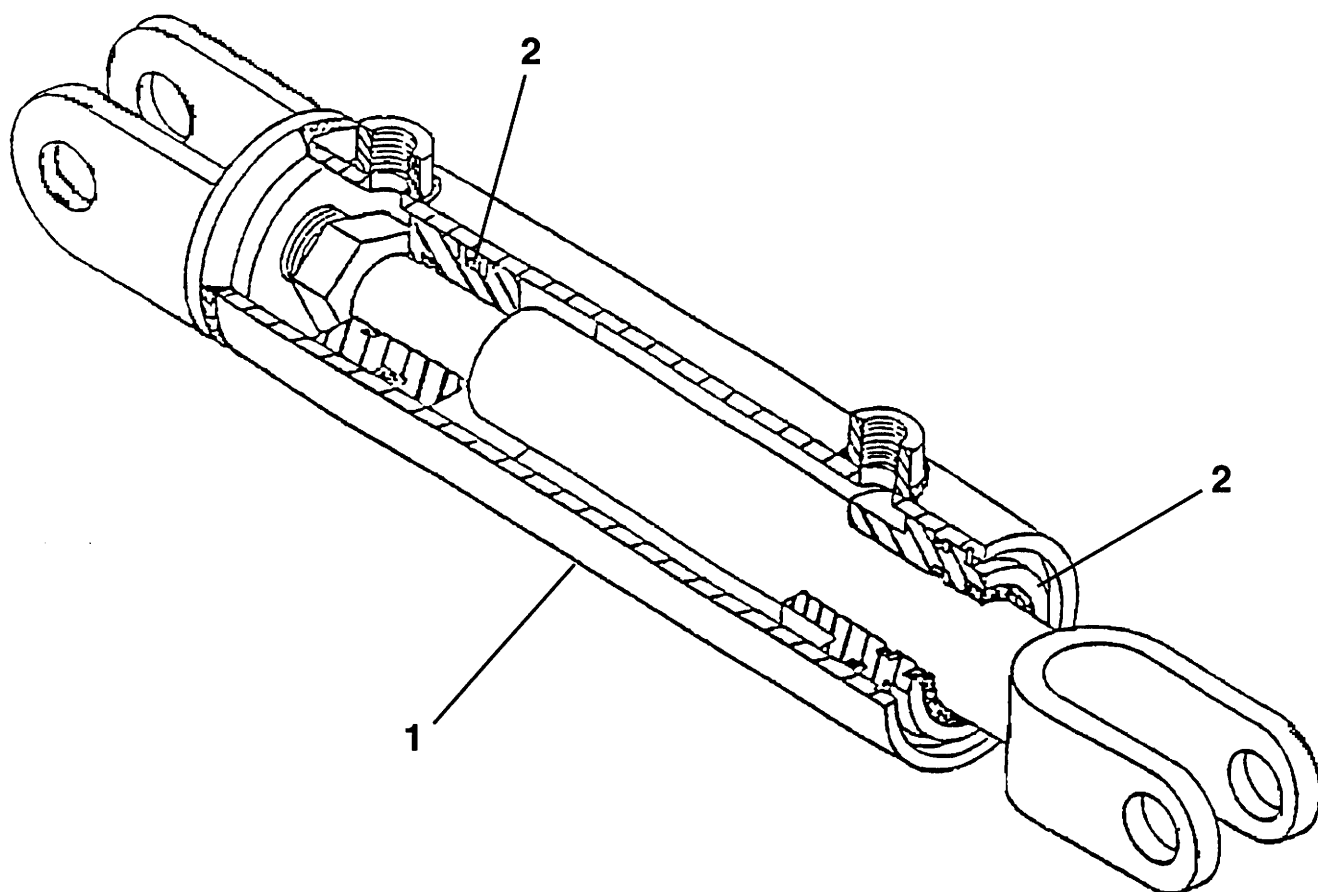
TITLE STEER CYLINDER, 2515 SCISSORS; SKYHAWK 2031E, 2234E, 2248E

PLATE NO. 11.54

SIMON AERIALS INC.

NEW 11 OCT., 1994

PART NO. 04-027700



TITLE STEER CYLINDER, 2515 SCISSORS; SKYHAWK 2031E, 2234E, 2248E

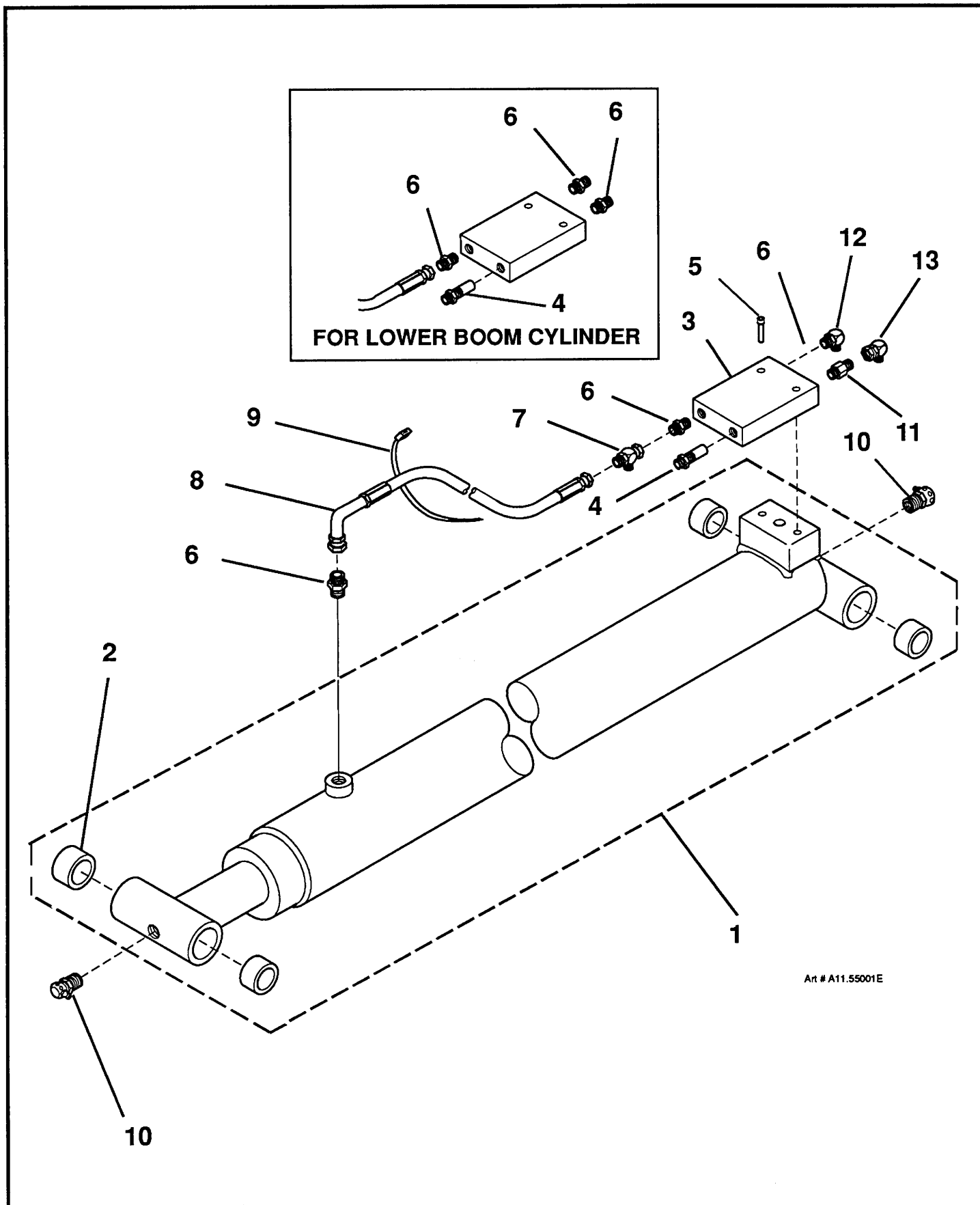
SIMON AERIALS INC.

NEW 11 OCT., 1994

PART NO. 04-027700

PLATE NO. 11.54

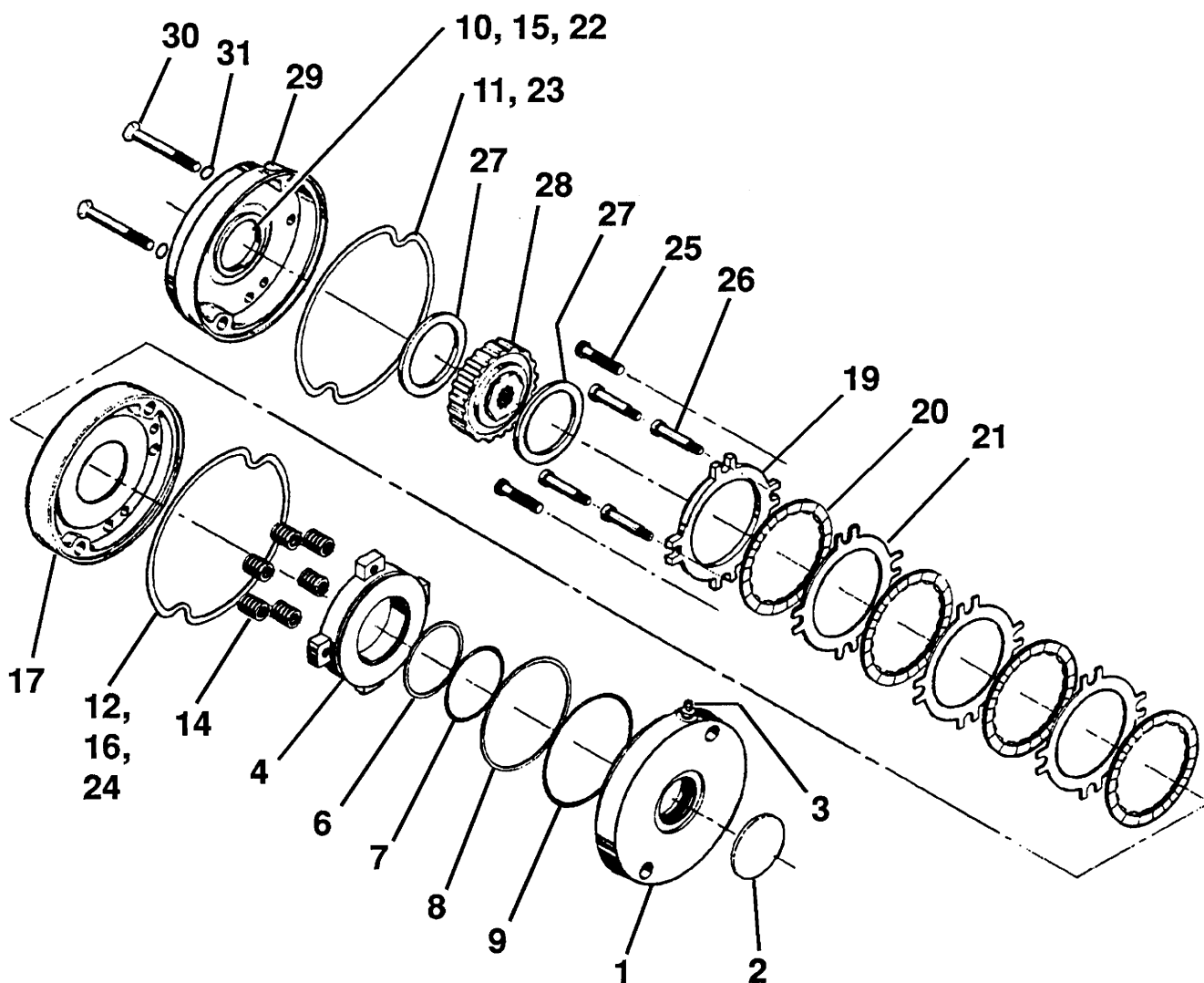
[illegible]



TITLE	LIFT CYLINDER, SKYHAWK 2031E, 2234E, 2248E		
SIMON AERIALS INC.	REV. 31 DEC., 1991	PART NO. 04-027500	PLATE NO. 11.55

PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PLATE, PRESSURE	1
2			PLUG, FREEZE	1
3			FITTING, GREASE	1
4			PISTON	1
5	02-019201		SEAL KIT	1
6			RING, BACKUP	1
7			"O"-RING	1
8			RING, BACKUP	1
9			"O"-RING	1
10			SEAL, OIL (also in spring and lining kits, items 15 or 22)	1
11			GASKET, SPRING PLATE TO COVER	1
12			GASKET, PRESSURE PLATE TO SPRING PLATE	1
13	02-019202		SPRING KIT	1
14			SPRING	6
15			SEAL, OIL (also in seal and lining kits, items 10 or 22)	1
16			GASKET, PRESSURE PLATE TO SPRING PLATE	1
17			PLATE, SPRING	1
18	02-019203		LINING REPLACEMENT KIT	1
19			DISC, PRIMARY	1
20			DISC, ROTOR	4
21			DISC, STATOR	3
22			SEAL, OIL (also in seal and spring kits, items 10 or 15)	1
23			GASKET, SPRING PLATE TO COVER	1
24			GASKET, PRESSURE PLATE TO SPRING PLATE	1
25	02-019207		SCREW, SOCKET HEAD (Spring plate to pressure plate)	2
26	02-019208		SHOULDER BOLT, SOCKET HEAD (Tension pin)	4
27	02-019204		WASHER, THRUST	2
28			SHAFT ASSEMBLY, SPLINE	1
29			COVER, BRAKE	1
30	02-019205		BOLT, FLAT HEAD	2
31	02-019206		"O"-RING	2

PLATE NO.	22.51	SIMON AERIALS INC.	REV. 15 NOV., 1991	PART NO.	02-019200
-----------	-------	--------------------	--------------------	----------	-----------



AF 22310018

TITLE BRAKE ASSEMBLY, SKYHAWK 2031E, 2234E, 2248E

SIMON AERIALS INC.

REV. 15 NOV., 1991

PART
NO.

02-019200

PLATE
NO.

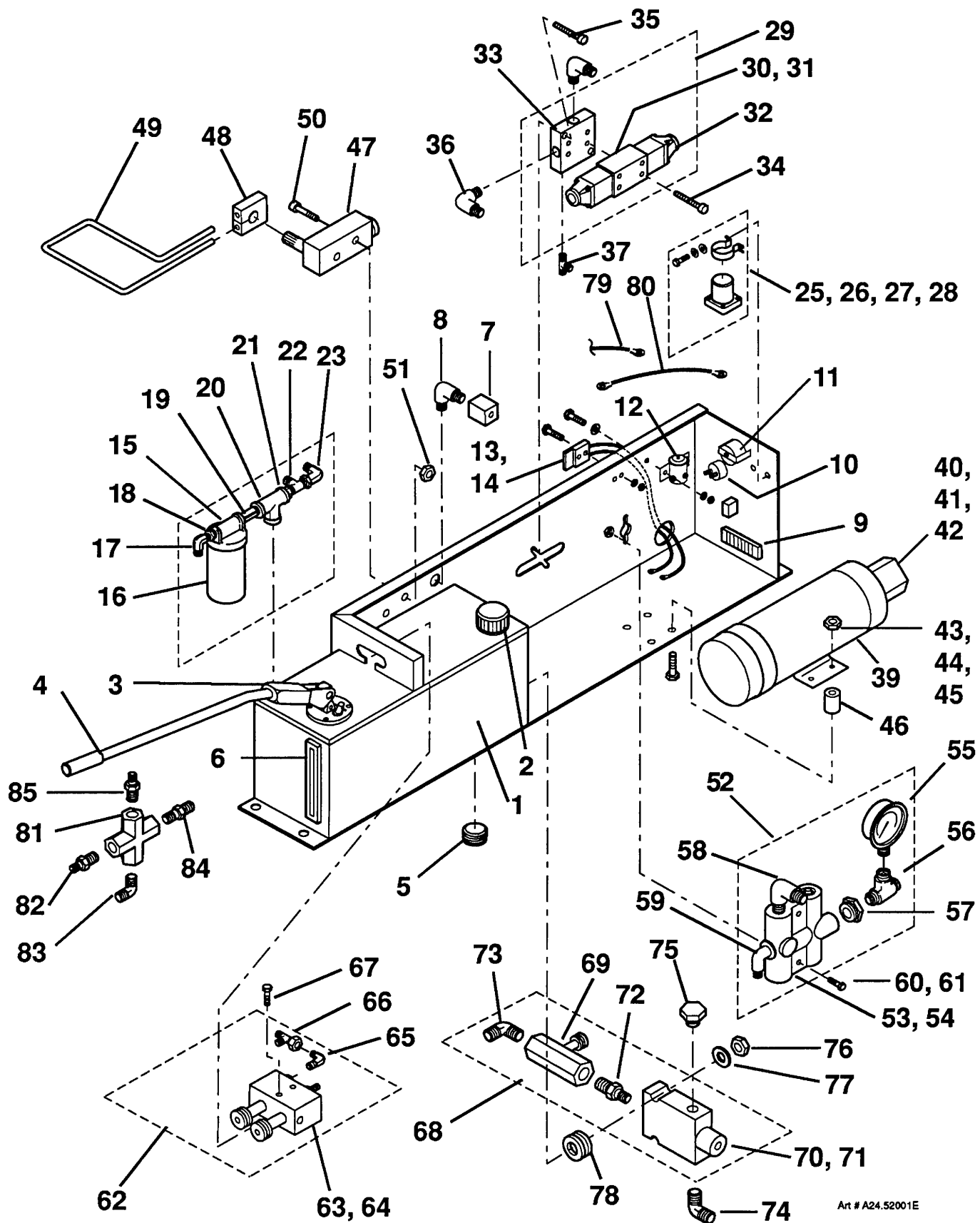
22.51

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2123980		TANK WELDMENT, HYDRAULIC	1
2	01-074000		CAP ASSEMBLY, HYDRAULIC TANK	1
3	01-066100		PUMP, EMERGENCY HYDRAULIC	1
4	2126660		HANDLE ASSEMBLY, EMERGENCY PUMP	1
5	11-050050		PLUG, SQUARE HEAD (2" NPT)	1
6	01-074100		GAUGE, FLUID LEVEL (Sight gauge)	1
7	03-603500		SWITCH, PRESSURE [300 to 2500 PSI (20.7 to 172.4 Bar) (21 to 176 kg/ cm ²)]	1
8	06-205000		ELBOW, 90° (6 DTX-S)	1
9	03-068000		BLOCK, TERMINAL (10 connector)	1
10	03-427800		BREAKER, CIRCUIT	1
11	03-030500		METER, HOUR	1
12	03-427700		SOLENOID, MOTOR START (24 Volt DC)	1
13	2124340		CABLE ASSEMBLY, JUNCTION TO MOTOR	1
14	03-406800		CONNECTOR	1
15	01-081500		FILTER ASSEMBLY, HYDRAULIC	1
16	01-081501		ELEMENT, FILTER	1
17	06-004200		ELBOW, MALE 90° (8 CTX-S)	1
18	06-071300		REDUCER, PIPE THREAD (12-6 PTR-S)	1
19	11-020010		NIPPLE, PIPE (3/4" NPT x 2" long)	1
20	06-072800		TEE, FEMALE PIPE THREAD (6 MMO-S)	1
21	06-071100		REDUCER, PIPE THREAD (12-4 PTR-S)	1
22	06-012000		RUN TEE, MALE (6 RTX-S)	1
23	06-051500		ELBOW, 90° SWIVEL NUT (6 C6X-S)	1
24	01-020800		VALVE, POPPET CHECK	1
25	03-603600		CONTACTOR (24 Volt, Single pole, normally open)	1
26	07-003002		SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	2
27	07-065014		WASHER, HELICAL LOCK (1/4")	2
28	07-062014		WASHER, FLAT (1/4")	2
29	3518960		VALVE ASSEMBLY, SOLENOID	1
30	01-077900		VALVE, STEER	1
31	01-077901		SEAL KIT, STEER VALVE	1
32	01-077902		COIL, STEER VALVE	2
33	01-078100		SUB-PLATE, STEER VALVE	1
34	07-008358		CAP SCREW, SOCKET HEAD (#10-24 x 2")	4
35	07-008007		CAP SCREW, SOCKET HEAD (1/4"-20 x 1-1/2", Grade 8)	2
36	06-044400		ELBOW, 90° (4-6 C50X-S)	2
37	06-048500		TEE, RUN (6 R50X-S)	1
38	3518980		MANIFOLD ASSEMBLY, CROSS	1

TITLE HYDRAULIC TANK, SKYHAWK 2031E, 2234E, 2248E (PLATE 1 OF 3)

PLATE NO.	24.52	SIMON AERIALS INC.	REV. 03 JAN., 1992	PART NO.	3512150
------------------	--------------	---------------------------	--------------------	-----------------	----------------



Art # A24.52001E

TITLE HYDRAULIC TANK, SKYHAWK 2031E, 2234E, 2248E (PLATE 1 OF 3)

SIMON AERIALS INC.

REV. 03 JAN., 1992

PART
NO.

3512150

PLATE
NO.

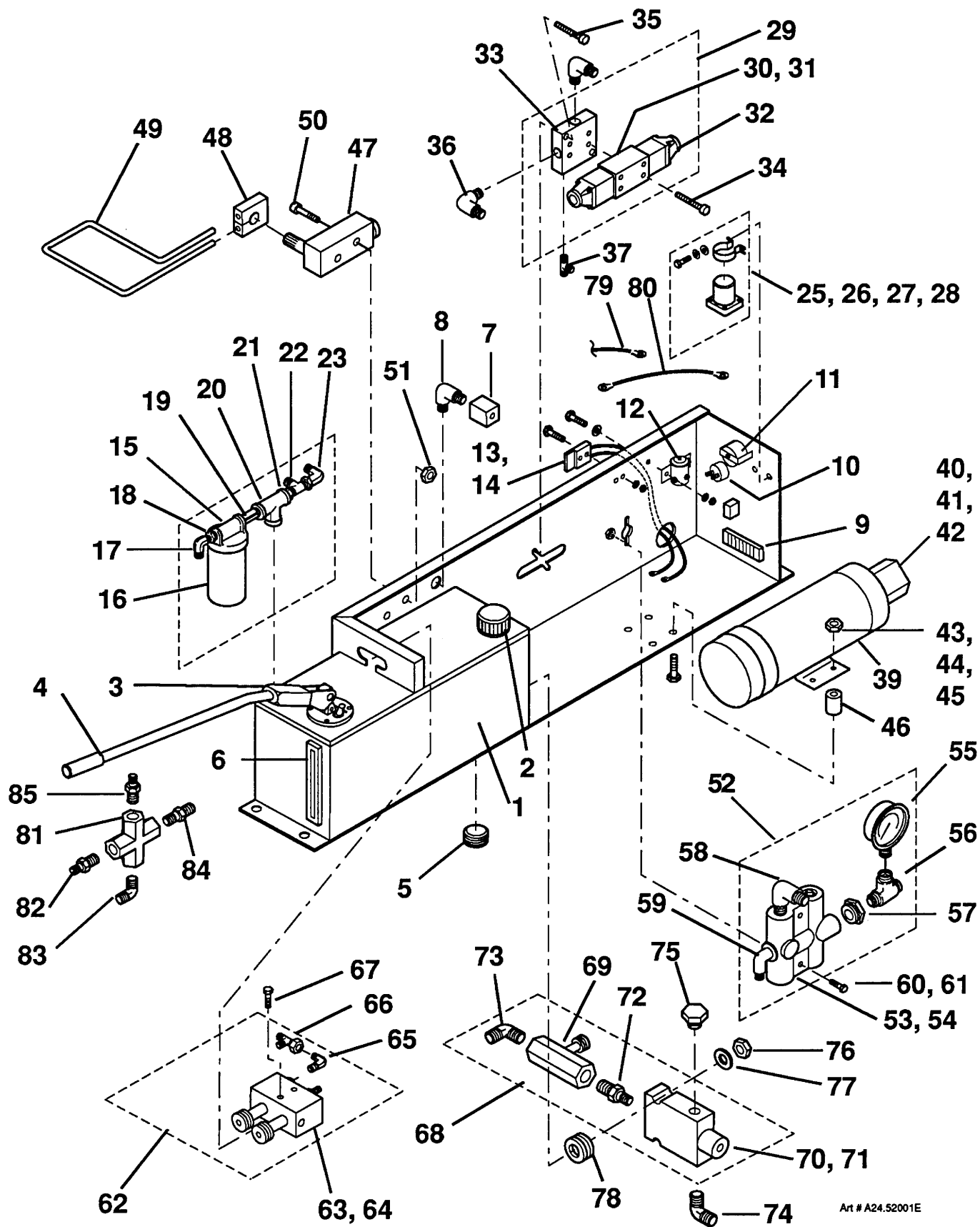
24.52

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
39	03-603300		MOTOR, ELECTRIC [5 HP (3.73 Kw) @ 2400 RPM, 24 Volt, 200 Amp]	1
40	01-079700		PUMP, HYDRAULIC (Type 1)	
			Note: A "Type 1" pump can be identified by the model number "G 1220 A1A 200 N00" on the nameplate.	1
			PUMP, HYDRAULIC (Type 2)	
			Note: A "Type 2" pump can be identified by the model number "G 1220 C3A 300 N00" on the nameplate.	
			Note: When using a "Type 2" pump, Reducer/ expander 06-090900 (item 40) must be used	1
41	06-090900		REDUCER/ EXPANDER (10-8 F50G5-S) (for "Type 2" pump)	1
42			SEAL KIT (for "Type 1" pump)	1
			SEAL KIT (for "Type 2" pump)	1
43	07-003029		SCREW, HEX HEAD (5/16"-18 x 2", Grade 5)	4
44	07-062015		WASHER, FLAT (5/16")	8
45	07-050015		NUT, HEX STOP (5/16"-18)	4
46	2156620		SPACER	4
47	03-021400		SWITCH, LIMIT	1
48	03-026200		LEVER BLOCK, LIMIT SWITCH	1
49	2129540		ARM, LIMIT SWITCH	1
50	07-008355		SCREW, SOCKET HEAD (#10-24 x 1-1/2", Grade 8)	2
51	07-050011		NUT, HEX STOP (#10-24)	2
52	3519070		FLOW DIVIDER ASSEMBLY	1
53	01-078000		VALVE, PRIORITY	1
54			SEAL KIT, PRIORITY VALVE	1
55	01-021000		GAUGE, HYDRAULIC PRESSURE [0 to 4000 PSI (0 to 276 Bar) (0 to 281 kg/ cm ²)]	1
56	2157080		RUN TEE, 1/2" (modified)	1
57	06-071300		REDUCER, PIPE THREAD (12-6 PTR-S)	2
58	06-004000		ELBOW, 90° MALE (6-6 CTX-S)	2
59	06-009900		ELBOW, 45° MALE (6-6 VTX-S)	1
60	07-003010		SCREW, HEX HEAD (1/4"-20 x 2-1/4", Grade 5)	2
61	07-050014		NUT, HEX STOP (1/4"-20)	2
62	3519010		VALVE ASSEMBLY, NEEDLE	1
63	01-078800		MANIFOLD, TWO VALVE	1
64	01-078801		SEAL KIT, NEEDLE VALVE	1
65	06-044400		ELBOW, STRAIGHT THREAD, 90° (4-6 C50X-S)	1
66	06-054300		RUN TEE, SWIVEL NUT (4 R6X-S)	1
67	07-090130		SCREW, HEX HEAD (1/4"-20 x 2-3/4", Grade 5)	2

TITLE HYDRAULIC TANK, SKYHAWK 2031E, 2234E, 2248E (PLATE 2 OF 3)

PLATE NO.	24.52	SIMON AERIALS INC.	REV. 03 JAN., 1992	PART NO.	3512150
------------------	-------	---------------------------	--------------------	-----------------	---------



Art # A24.52001E

TITLE HYDRAULIC TANK, SKYHAWK 2031E, 2234E, 2248E (PLATE 2 OF 3)

SIMON AERIALS INC.

REV. 03 JAN., 1992

PART
NO.

3512150

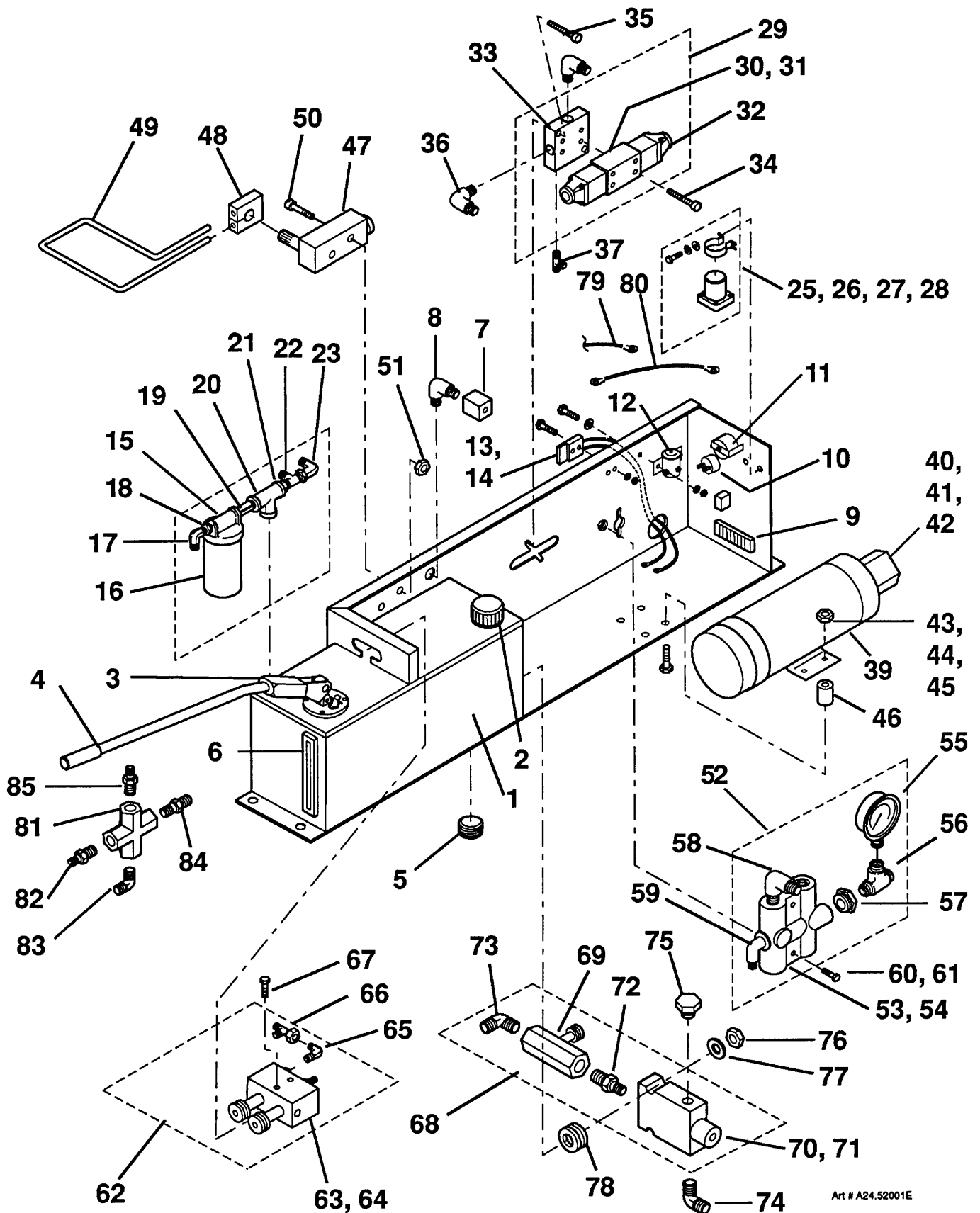
PLATE
NO.

24.52

[illegible]

TITLE HYDRAULIC TANK, SKYHAWK 2031E, 2234E, 2248E (PLATE 3 OF 3)				
PLATE NO.	24.52	SIMON AERIALS INC.	REV. 03 JAN., 1992	PART NO. 3512150

TITLE HYDRAULIC TANK, SKYHAWK 2031E, 2234E, 2248E (PLATE 3 OF 3)				
PLATE NO.	24.52	SIMON AERIALS INC.	REV. 03 JAN., 1992	PART NO. 3512150



Art # A24.52001E

TITLE HYDRAULIC TANK, SKYHAWK 2031E, 2234E, 2248E (PLATE 3 OF 3)

SIMON AERIALS INC.

REV. 03 JAN., 1992

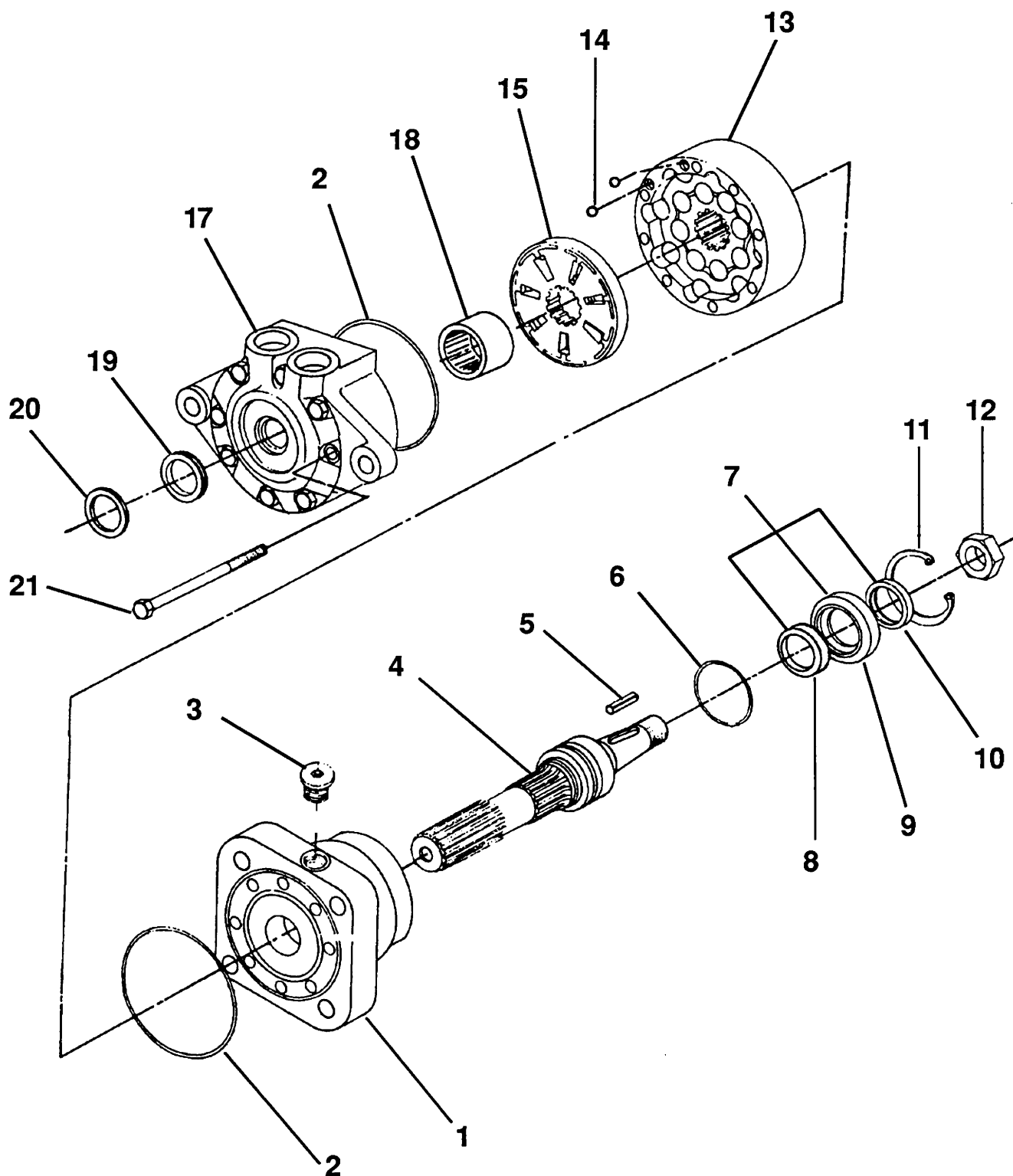
PART
NO.

3512150

PLATE
NO.

24.52

[illegible]



TITLE DRIVE MOTOR ASSEMBLY, SKYHAWK 2031E, 2234E, 2248E

SIMON AERIALS INC.

REV. 06 JAN., 1992

PART
NO.

01-081600

PLATE
NO.

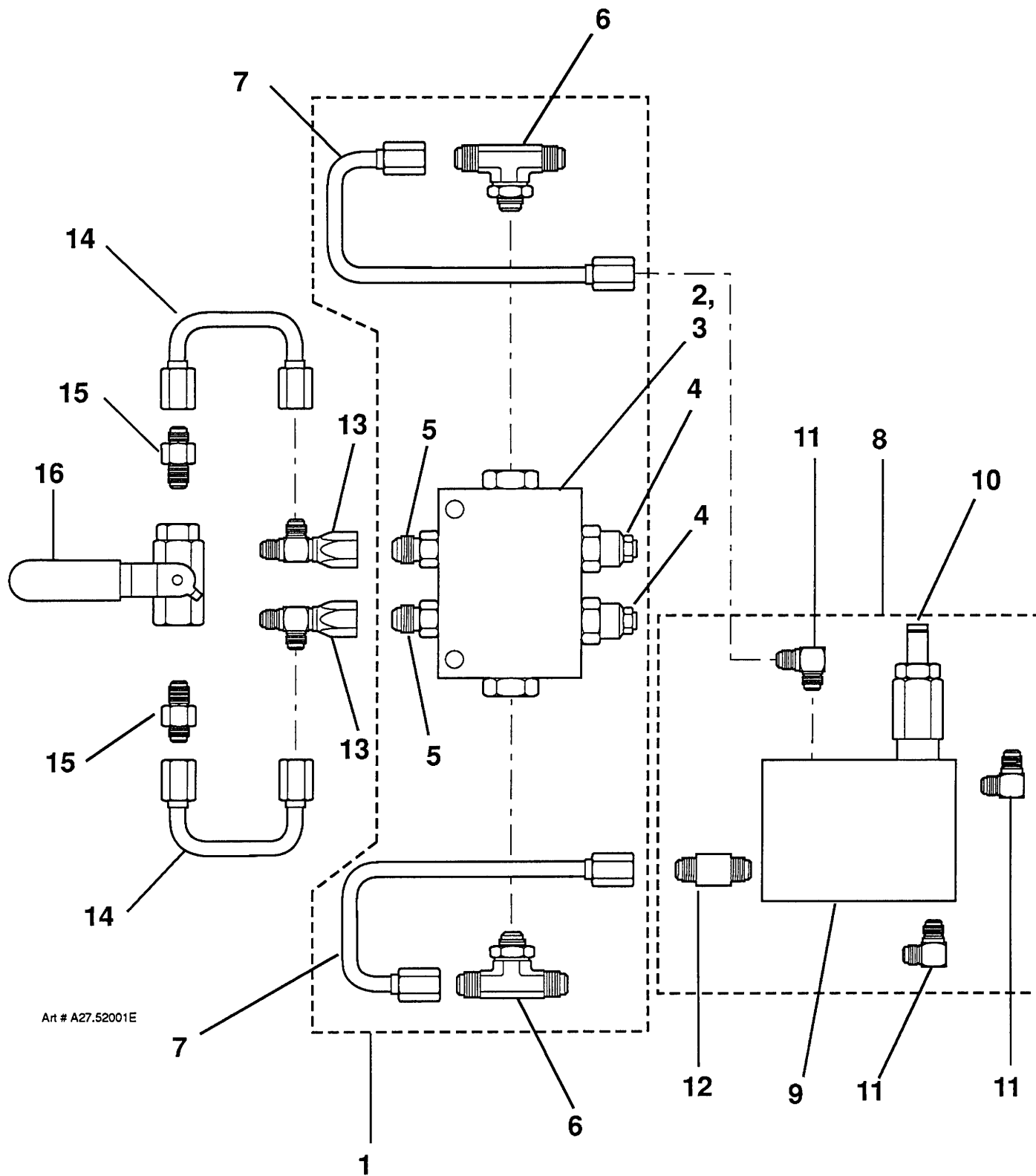
26.51

[illegible]

PLATE NO. 27.52

REV. 06 JAN., 1992

PART
NO.



TITLE MOTION CONTROL VALVE ASSEMBLY, SKYHAWK 2031E, 2234E, 2248E

SIMON AERIALS INC.

REV. 06 JAN., 1992

PART
NO.

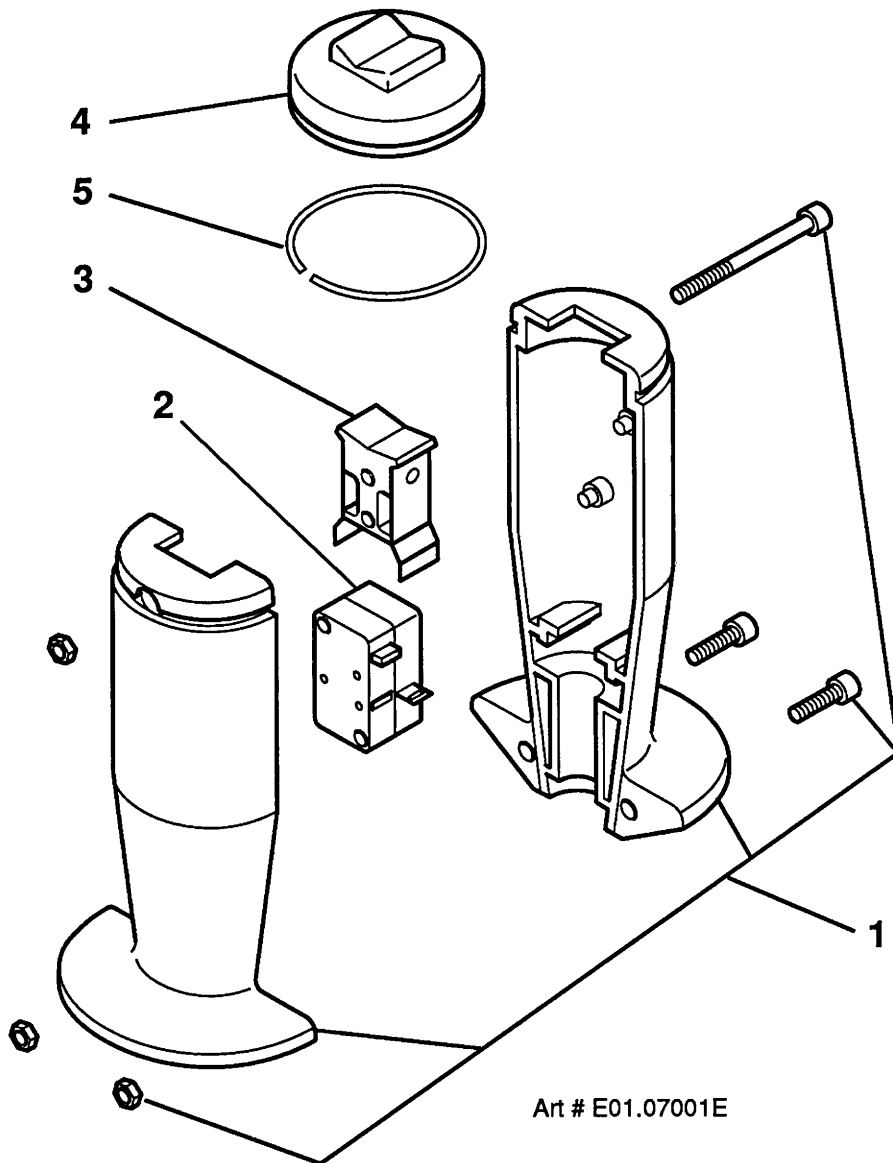
PLATE
NO.

27.52

[illegible]

DRIVE CONTROL HANDLE ASSEMBLY

03-402200



TITLE

DRIVE CONTROL HANDLE ASSEMBLY

SIMON AERIALS INC.

NEW 09/11/91

PART
NO.

03-402200

PLATE
NO.

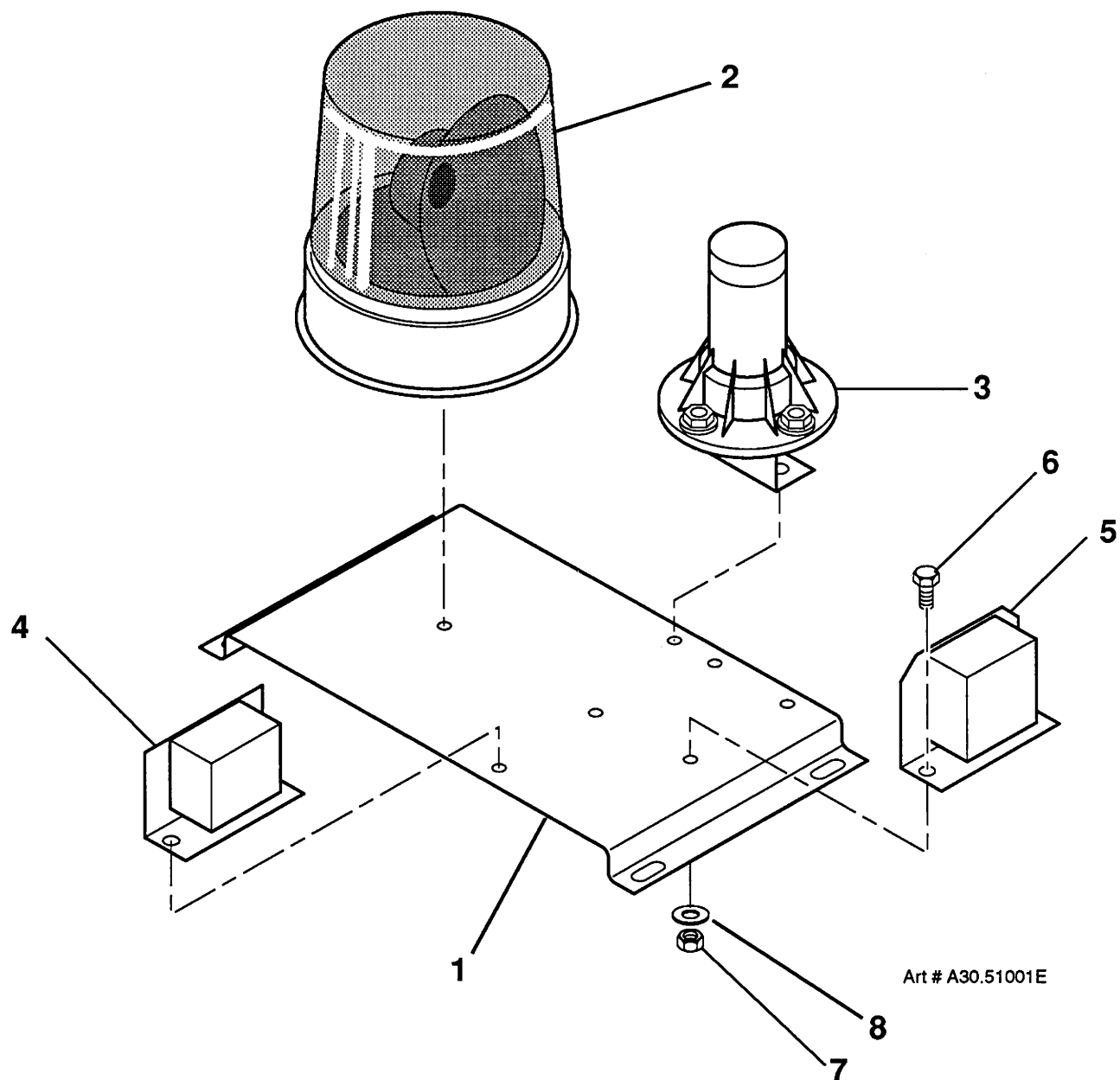
29.09

[illegible]

TITLE		ALARM PACKAGE, SKYHAWK 2031E, 2234E, 2248E	
PLATE NO.	30.51	SIMON AERIALS INC. REV. 07 JAN., 1992	PART NO. 2158510

PLATE NO.	30.51	SIMON AERIALS INC.	REV. 07 JAN., 1992	PART NO.	2158510
-----------	-------	--------------------	--------------------	----------	---------

PLATE NO.	30.51	SIMON AERIALS INC.	REV. 07 JAN., 1992	PART NO.	2158510
-----------	-------	--------------------	--------------------	----------	---------



TITLE ALARM PACKAGE, SKYHAWK 2031E, 2234E, 2248E

SIMON AERIALS INC.

REV. 07 JAN., 1992

PART
NO.

2158510

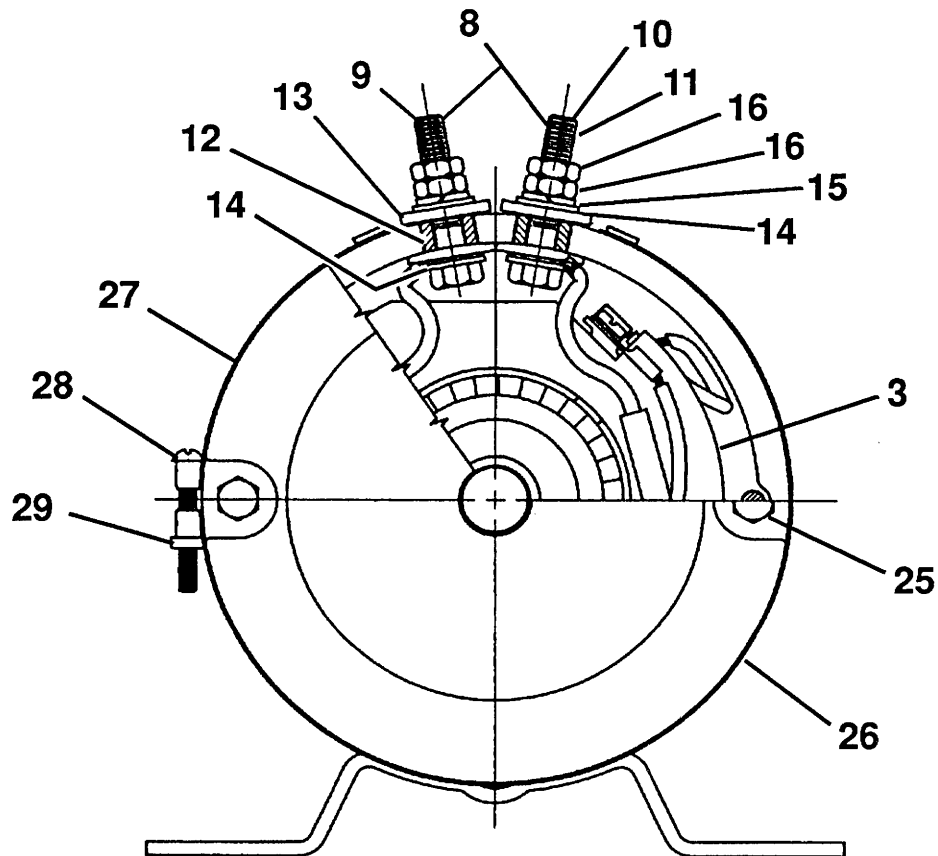
PLATE
NO.

30.51

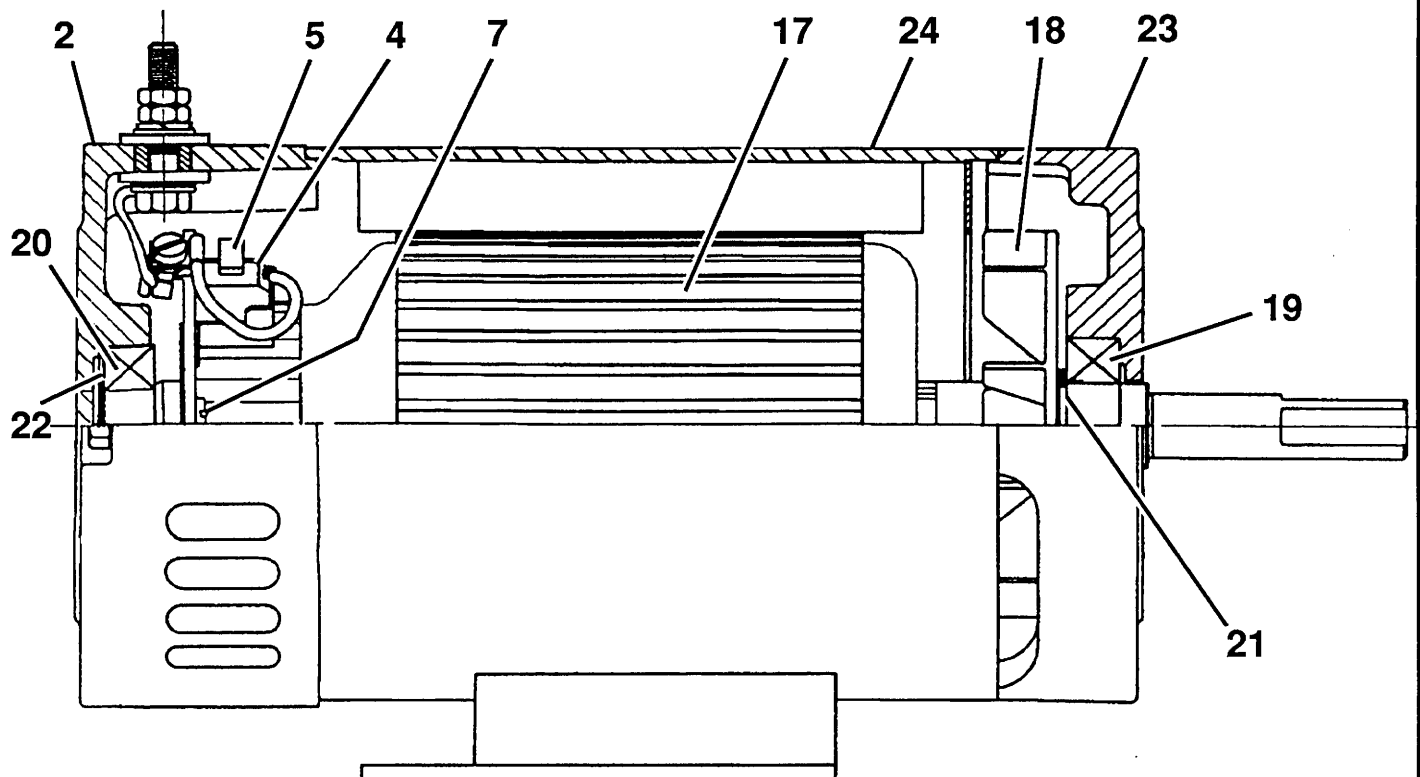
PARTS LIST				
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	03-603300		MOTOR ASSEMBLY, ELECTRIC (5 HP) (3.73 KW) (identified as "2400 RPM, 200 Amp, 24 Volt" on nameplate)	
1	03-603307		COVER ASSEMBLY, COMMUTATOR	1
2	03-603308		COVER, COMMUTATOR	1
3	03-603303		RING ASSEMBLY, BRUSH	1
4	03-603301		BRUSH ASSEMBLY	4
5	03-603306		SPRING, BRUSH	4
6	03-603302		HOLDER, BRUSH	4
7			SCREW, SPRING-TITE	3
8	03-603311		TERMINAL POST KIT	2
9	03-603309		TERMINAL STUD AND LEAD ASS'Y (short lead)	1
10	03-603310		TERMINAL STUD AND LEAD ASS'Y (long lead)	1
11			SCREW, HEX HEAD	1
12			INSULATOR	1
13			WASHER, INSULATOR	2
14			WASHER, FLAT (SAE)	2
15			WASHER, HELICAL LOCK	1
16			NUT, HEX JAM (Heavy)	2
17	03-603312		ARMATURE ASSEMBLY	1
18	03-603313		FAN	1
19	03-603314		BEARING (Pulley end)	1
20	03-603315		BEARING (Commutator end)	1
21	03-603316		RING, RETAINING	1
22	03-603320		WASHER, SPRING	1
23	03-603317		COVER (Pulley end)	1
24	03-603318		STATOR ASSEMBLY	1
25	03-603319		THRU BOLT, MOTOR ASSEMBLY	2
26	03-603304		COVER, BRUSH INSPECTION (Vented)	1
27	03-603305		COVER, BRUSH INSPECTION (Non vented)	1
28			SCREW, PHILLIPS HEAD (#10-32 x 1-3/4")	1
29			NUT, SQUARE (#10-32)	1
TITLE MOTOR ASSEMBLY, ELECTRIC (5 HP)				
PLATE NO.	31.51	SIMON AERIALS INC.		PART NO. 03-603300

MOTOR ASSEMBLY, ELECTRIC (5 HP)

03-603300



Art # A31.51002S



Art # A31.51001S

TITLE

MOTOR ASSEMBLY, ELECTRIC (5 HP)

SIMON AERIALS INC.

NEW 11/15/91

PART
NO.

03-603300

PLATE
NO.

31.51

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	DK2031E		DECAL KIT, MODEL 2031E (includes items 2 thru 20)	1
	DK2234E		DECAL KIT, MODEL 2234E (includes items 2 thru 20)	1
	DK2248E		DECAL KIT, MODEL 2248E (includes items 2 thru 20)	1
2	10-087600		DECAL, PLATFORM CONTROLS (for 2031E or 2234E) [with label "750 Lb. (340.2 Kg)" at upper left]	1
	10-122500		DECAL, PLATFORM CONTROLS (for Model 2248E) [with label "1,000 Lb. (453.6 Kg)" at upper left]	1
3	10-122400		DECAL, "SAFETY RULES"	1
4	47215804		DECAL, "DANGER - ELECTROCUTION HAZARD"	1
5	47100108		DECAL, "CONSULT USER'S MANUAL"	1
6	47215811		DECAL, "USE ON LEVEL GROUND ONLY"	1
7	10-066600		DECAL, "MAXIMUM LOAD CAPACITY 750 LB." (for Model 2031E or 2234E)	2
	SM 1070		DECAL, "MAXIMUM LOAD CAPACITY 1,000 LB." (for Model 2248E)	2
8	10-088100		DECAL, "SIMON SKYHAWK" NAME (Black)	2
9	10-087900		DECAL, MODEL "2031E"	2
	10-088000		DECAL, MODEL "2234E"	2
	10-090800		DECAL, MODEL "2248E"	2
10	47215808		DECAL, "CHARGE BATTERIES DAILY . . ."	1
11	47215800		DECAL, "DANGER . . . ARC, SPARK OR FLAME . . ."	1
12	47215806		DECAL, "CAUTION - DISCONNECT BATTERIES . . ."	1
13	10-087700		DECAL, "PLATFORM EMERGENCY LOWERING"	1
14	10-203000		DECAL, NUMERAL "1" [1" (25.4 mm) high]	1
15	10-203100		DECAL, NUMERAL "2" [1" (25.4 mm) high]	1
16	10-134400		DECAL, NUMERAL "3" [1" (25.4 mm) high] (for units with three valve levers at right rear wheel)	1
17	10-203200		DECAL, TOWING INSTRUCTION (has heading "Skyhawk". Used on units with two valve levers near right rear wheel)	1
	10-114300		DECAL, TOWING INSTRUCTION (heading reads "Towing Instructions". Used on units having three valve levers at right rear wheel)	1
18	10-017400		DECAL, STRIPING (for earlier versions) [Black/ Orange/ Black, 3-1/2" (89 mm) wide] (Bulk item, order as needed)	A.R.
	10-126800		DECAL, STRIPING (for later versions) [(4) Orange stripes, 3-3/4" (95 mm) wide] (Bulk item, order as needed)	A.R.
19	10-131000		DECAL, SIMON "S" LOGO [Orange/ Gray, 5" (127 mm) wide x 7-1/2" (191 mm) high]	
20	10-121600		DECAL, "MADE IN USA"	2
21	10-031000		STRIP, "SAF STEP" (Black) (Bulk item, order as needed)	A.R.

TITLE

DECALS, SKYHAWK 2031E, 2234E, 2248E

PLATE NO.

99.52

SIMON AERIALS INC.

REV. 06 FEB., 1992

PART NO.

USE ON LEVEL GROUND ONLY

CONSULT USERS' MANUAL
BEFORE OPERATING MACHINE

⚡ DANGER

ELECTROCUTION HAZARD
THIS AERIAL WORK
PLATFORM IS
NON-INSULATED
KEEP CLEAR OF POWER
LINES AND OVERHEAD
OBSTRUCTIONS

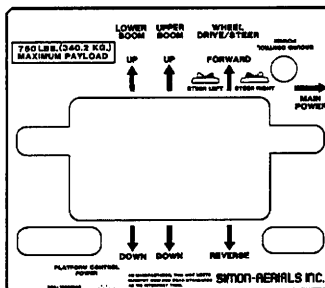
SAFETY RULES

- ✓ INSPECT BEFORE USING FOR BENT OR DAMAGED STRUCTURE
- ✓ ALWAYS USE GROUNDED ELECTRICAL RECEPTICAL
- ✓ LEVEL ON SOLID FOOTING BEFORE ELEVATING
- ✓ KEEP ARMS AND HANDS OUT OF BOOMS WHEN ELEVATED
- ✓ ALWAYS USE GUARD RAILS
- ✓ VISUALLY CHECK AREA FOR OBSTRUCTIONS AND POWER LINES
- ✓ BEFORE RAISING OR LOWERING
- ✓ NEVER EXCEED LOAD LIMITS
- ✓ READ SIMON OPERATIONS MANUAL

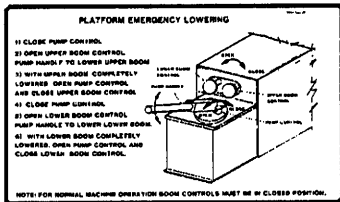
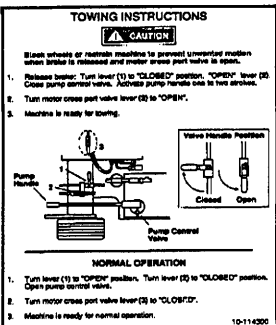
1 14

2 15

3 16



MAXIMUM LOAD CAPACITY
1000 POUNDS
UNIFORMLY DISTRIBUTED 276-107



CAUTION!
DISCONNECT BATTERIES FROM MACHINE BEFORE
REMOVING ANY COMPONENTS IN CONTROL HOUSING.
REMOVE RING, BRACELET AND WATCH
BEFORE WORKING IN CONTROL HOUSING.

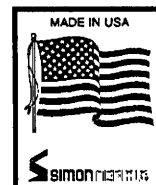


— DANGER —
CAUTION MUST BE TAKEN
TO INSURE THAT NO ARC,
SPARK, OR FLAME COMES
IN CONTACT WITH BATTERY
GENERATED GASSES.
ESPECIALLY DANGEROUS
WHEN CHARGING.

SIMON-SKYHAWK

**CHARGE BATTERIES DAILY
ADD WATER WEEKLY**

2248E



TITLE DECALS, SKYHAWK 2031E, 2234E, 2248E

SIMON AERIALS INC.

REV. 06 FEB., 1992

PART
NO.

PLATE
NO.

99.52