



MATERIAL HANDLING U.S.A.

PARTS CATALOG
FOR MODEL 6BPU15
ORDERPICKER

Starting With Serial Number 70001

M/N 00715-00050-07

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To Our Customer

The Part Numbers in this Parts Catalog were correct at the time your truck was manufactured. It is our policy to constantly improve our products, therefore, part numbers may continue to change. When ordering parts, verify part numbers through your Dealer's Parts Catalog, which is kept up to date. Also note that Illustrations of assemblies and components may not necessarily conform to the exact installation as they appear on your truck.

Tips for Ordering Parts

In addition to Part Number and Description, have available:

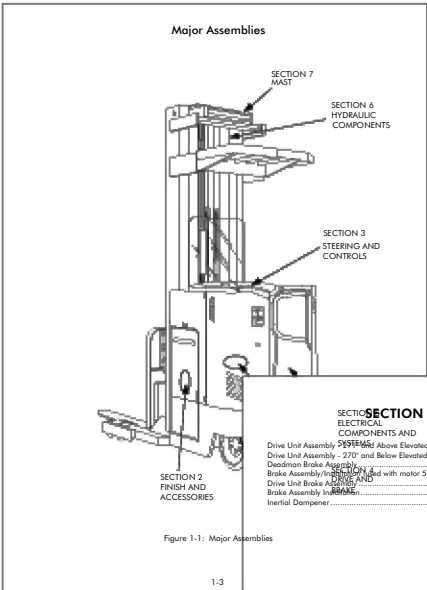
- The model number and serial number of the truck
- Pertinent specifications such as mast height, battery voltage, drive motor type, etc.
- Pertinent name plate data
- Applicable installation or assembly numbers
- Accurate Part Number

Using This Catalog

This Catalog contains navigational aids to help you locate specific parts information.

- Use Section 1 to decide where to start your search for information. The overall locator views define the technical configuration of the Catalog and tie the figures in the Catalog to the engineering data base.
- Use the Table of Contents to locate assemblies and subassemblies by name.
- Use the Alphabetical Index (by Part Name) and the Numerical Index (by Part Number) to locate individual parts.
- Determine configuration differences with the "Used On" codes contained within the Parts List. The "Used On" code attaches a part number to a wide range of design variables such as operating voltage, battery size, steering type, mast height and extension speed, fork carriages, color and size of tires, guide wheel specs, etc.

How To Use Parts Catalog if Part Number Is Not Known



IF THE PART NUMBER
IS NOT KNOWN

DO **THIS**



1.
Determine in which Section the part
is located using the illustration.

2.
Turn to the TABLE OF CONTENTS
in the applicable Section.

3.
Refer to the PAGE NUMBER
selected from the TABLE OF CONTENTS.
Locate the desired part
and note the ITEM NO.



4.
Refer to the corresponding PART LIST. Use the FIGURE
& ITEM NO. to find the Part Number, Description, etc.

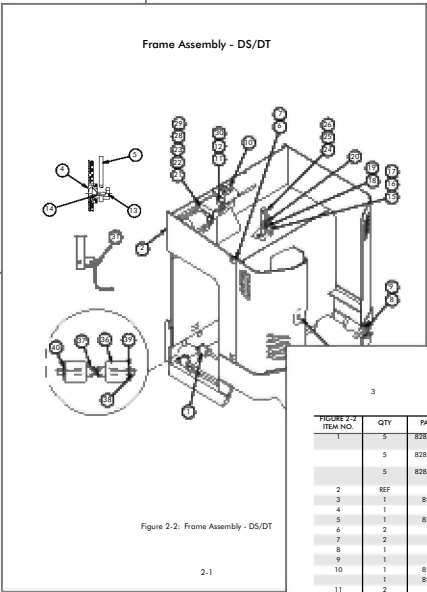


FIGURE 2-2. Frame Assembly - D5T				
ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	5	828-005-491/003	Roller Assembly (consists of items 36 through 40)	A
	5	828-005-491/001	Roller Assembly (consists of items 36 through 40)	B
	5	828-005-491/002	Roller Assembly (consists of items 36 through 40)	C
2	REF	828-006-283	Door Weldment	A, C
3	1	714-206	Screw	S
4	1	828-004-421	Bracket, Latch	
5	2	861-024	Pin, Clevis	
6	2	462-032	Bearing	R
7	1	710-244F	Screw	
8	1	795-433	Nut, Hex	
9	1	828-004-422	ODI Assembly	O
10	1	828-006-364	ODI Assembly	T
11	2	750-006	Nut, Hex	
12	2	771-049	Washer	H, L, M, P
13	1	765-135	Nut, Lock	
14	1	810-733	Pin, Roll	
15	1	828-004-451	Bracket, Key	
16	2	715-087	Screw	
17	2	771-019	Washer	
18	1	114-008-356	Switch Assembly, Key	F, H, K, L, M, R
19	1	114-009-495	Switch Assembly, Key	E, F, H, K, L, M, R
20	1	1-150-001	Switch, Push Button	M, R, R
21	1	7-595-006/001	Switch, Push Button	C, H, M, P
22	1	114-008-718-005	SMART Assembly	K, L, M, P
23	1	5-015-003	Nut, Hex	H, L, M, P
24	1	5-015-004	Nut, Hex	H, L, M, P
25	2	828-004-472	Bracket Weldment	
26	2	828-004-471	Washer	
27	2	715-089	Screw	
28	1	411-938-001	Decal, Keyswitch (Not Shown)	E, H
29	1	411-938-003	Decal, Keyswitch (Not Shown)	G
30	1	411-938-002	Decal, Keyswitch (Not Shown)	K, L
31	1	411-938-004	Decal, Keyswitch (Not Shown)	M, N, P
32	1	828-004-474	Cable Assembly, SC to SMART	H, L, M, P
33	1	828-004-483	Bracket, SMART	H, L, M, P
34	1	828-004-482	Clamp, ODI	E, G, K, M
35	1	154-009-117/001	Static Strap, Insulated	
36	1	154-009-117/002	Static Strap, Insulated	
37	1	154-009-117/003	Static Strap, Insulated	
38	1	154-009-117/004	Static Strap, Insulated	
39	1	154-009-117/005	Static Strap, Insulated	
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232	1	154-009-117/198	Static Strap, Insulated	
233	1	154-009-117/199	Static Strap, Insulated	
234	1	154-009-117/200	Static Strap, Insulated	
235	1	154-009-117/201	Static Strap, Insulated	
236	1	154-009-117/202	Static Strap, Insulated	
237	1	154-009-117/203	Static Strap, Insulated	
238	1	154-009-117/204	Static Strap, Insulated	
239	1	154-009-117/205		

How To Use Parts Catalog if Part Number Is Known

IF THE PART NUMBER IS KNOWN

DO **THIS**



1. Locate the Part Number in the NUMERICAL INDEX (APPENDIX B). Note the Section & page number(s) where the part is described.

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024-296-420/286	Cable Assembly	5-15	411-874	Seal Kit	6-9
024-296-420/287	Cable Assembly	5-15	411-875	Cylinder, Hydraulic (Ultra)	6-5
024-296-420/288	Cable Assembly	5-15	411-876	Cylinder, Hydraulic	6-5
024-296-420/289	Cable Assembly	5-15	411-877	Valve, Flow Control (2 GPM)	6-7
024-296-420/290	Cable Assembly	5-15	411-878	Reservoir Kit (With Tube)	6-7
024-296-420/291	Cable Assembly	5-15	411-879	Adapter Block (With Check Valve)	6-7
024-296-420/292	Cable Assembly	5-15	411-880	Pug, Vent (With 40 Micron Filter)	6-7
024-296-420/293	Cable Assembly	5-15	411-881	Valve/Coil, Solenoid Release	6-7
024-296-420/294	Cable Assembly	5-15	411-882	Valve, Adjustable Relief	6-7
024-296-420/295	Cable Assembly	5-15	411-883	Pump (With Coupling, Bolts & Gasket)	6-7
024-296-420/296	Cable Assembly	5-15	411-884	Elbow, 90 Degree	6-7
024-296-420/297	Cable Assembly	5-15	411-885	Switch, Solenoid Start	6-7
024-296-420/298	Cable Assembly	5-15	411-886	Motor, 24 Volt DC 2 Terminal	6-7
024-296-420/299	Cable Assembly	5-15	411-887	Pump Motor	5-23
024-296-420/300	Cable Assembly	5-15	411-888	Brush Set	5-23
024-296-420/301	Cable Assembly	5-15	411-889	Pump and Motor Assembly	6-5
024-296-420/302	Cable Assembly	5-15	411-890	Pump/Motor Assembly	6-7
024-296-420/303	Cable Assembly	5-15	411-891	Brush Lead Assembly Kit	5-23
024-296-420/304	Cable Assembly	5-15	411-892	Commutator End Bearing	5-23
024-296-420/305	Cable Assembly	5-15	411-893	Drive End Bearing	5-23
024-296-420/306	Cable Assembly	5-15	411-894	Washer	5-23
024-296-420/307	Cable Assembly	5-15	411-895	Seal	5-23
024-296-420/308	Cable Assembly	5-15	411-896	Retaining Ring	5-23
024-296-420/309	Cable Assembly	5-15	411-897	Brush Set	5-23
024-296-420/310	Cable Assembly	5-15	411-898	Brush Spring Set	5-23
024-296-420/311	Cable Assembly	5-15	411-899	Drive Motor - SYN 5478 & Up	5-23
024-296-420/312	Cable Assembly	5-15	411-900	Drive Motor, 24 Volt	4-11
024-296-420/313	Cable Assembly	5-15	411-901	Pin, 15 Ang	5-3
024-296-420/314	Cable Assembly	5-15	411-902	Flare Assembly	5-3
024-296-420/315	Cable Assembly	5-15	411-903	Battery Connector	5-15
024-296-420/316	Cable Assembly	5-15	411-904	Battery Connector	5-17
024-296-420/317	Cable Assembly	5-15	411-905	Battery Connector	5-6
024-296-420/318	Cable Assembly	5-15	411-906	Groundnut	5-15
024-296-420/319	Cable Assembly	5-15	411-907	Shaft, Flexible	3-7

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2. Find the Section & page number in the PARTS LIST referenced by the Numerical Index. Locate the Part Number. Note the part's FIGURE & ITEM NO.

FIGURE 2-2	ITEM NO.	QTY	PART NUMBER	DESCRIPTION	FIGURE 2-2	ITEM NO.	QTY	PART NUMBER	DESCRIPTION
	5		828-005-691/003	Roller Assembly (consists of items 36 through 40)		5		828-005-691/001	Roller Assembly (consists of items 36 through 40)
	5		828-005-691/002	Roller Assembly (consists of items 36 through 40)		5		828-005-691/002	Roller Assembly (consists of items 36 through 40)
	2	REF	828-005-283	Frame Weldment		2	REF	828-005-283	Frame Weldment
	3		714-206	Screw		3		714-206	Screw
	4		828-004-421	Bracket, Latch		4		828-004-421	Bracket, Latch
	5		861-026	Pin, Clevis		5		861-026	Pin, Clevis
	6		462-032	Bearing		6		462-032	Bearing
	7		710-264P	Nut, Hex		7		710-264P	Nut, Hex
	8		750-433	Nut, Hex		8		750-433	Nut, Hex
	9		828-004-672	ODI Assembly		9		828-004-672	ODI Assembly
	10		828-006-364	Washer		10		828-006-364	Washer
	11		771-049	Washer		11		771-049	Washer
	12		760-130	Pin, Roll		12		760-130	Pin, Roll
	13		828-004-651	Bracket, Key		13		828-004-651	Bracket, Key
	14		710-067	Screw		14		710-067	Screw
	15		771-019	Washer		15		771-019	Washer
	16		114-008-306	Switch Assembly, Key		16		114-008-306	Switch Assembly, Key
	17		114-009-695	Switch, Push Button		17		114-009-695	Switch, Push Button
	18		1-150-001	Switch, Lock with Keys		18		1-150-001	Switch, Lock with Keys
	19		7-590-006/001	Switch, Push Button		19		7-590-006/001	Switch, Push Button
	20		114-008-718/005	SMART Assembly		20		114-008-718/005	SMART Assembly
	21		5-015-003	Nut, Hex		21		5-015-003	Nut, Hex
	22		5-015-004	Nut, Hex		22		5-015-004	Nut, Hex
	23		828-004-672	Bracket Weldment		23		828-004-672	Bracket Weldment
	24		828-004-671	Washer		24		828-004-671	Washer
	25		710-069	Screw		25		710-069	Screw
	26		411-938/001	Decal, Keyswitch (Not Shown)		26		411-938/001	Decal, Keyswitch (Not Shown)
	27		411-938/002	Decal, Keyswitch (Not Shown)		27		411-938/002	Decal, Keyswitch (Not Shown)
	28		411-938/003	Decal, Keyswitch (Not Shown)		28		411-938/003	Decal, Keyswitch (Not Shown)
	29		828-004-674	Cable Assembly, Key to SMART		29		828-004-674	Cable Assembly, Key to SMART
	30		828-004-683	Bracket, SMART		30		828-004-683	Bracket, SMART
	31		828-004-682	Clamp, ODI		31		828-004-682	Clamp, ODI
	32		154-009-117/001	Static Strip, ODI		32		154-009-117/001	Static Strip, ODI

List 2-2: Frame Assembly - DS/DT

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123-456-789

3. Find the FIGURE & ITEM NO. on the associated illustration for a pictorial view of the part.

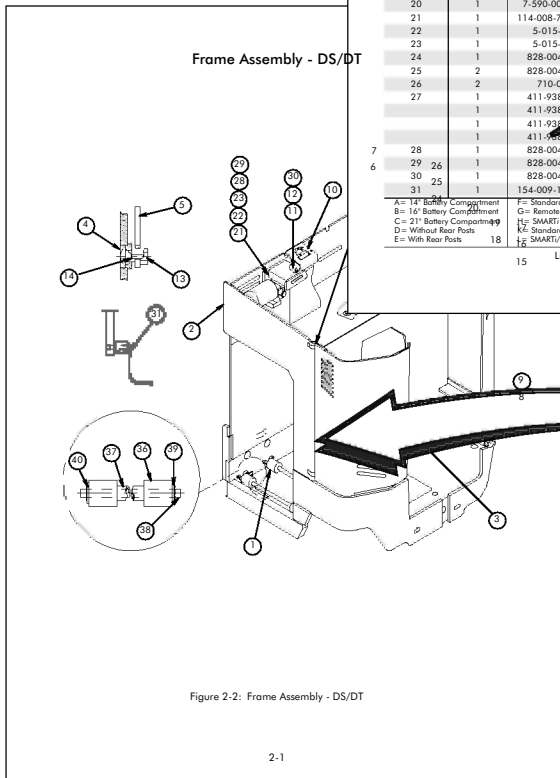
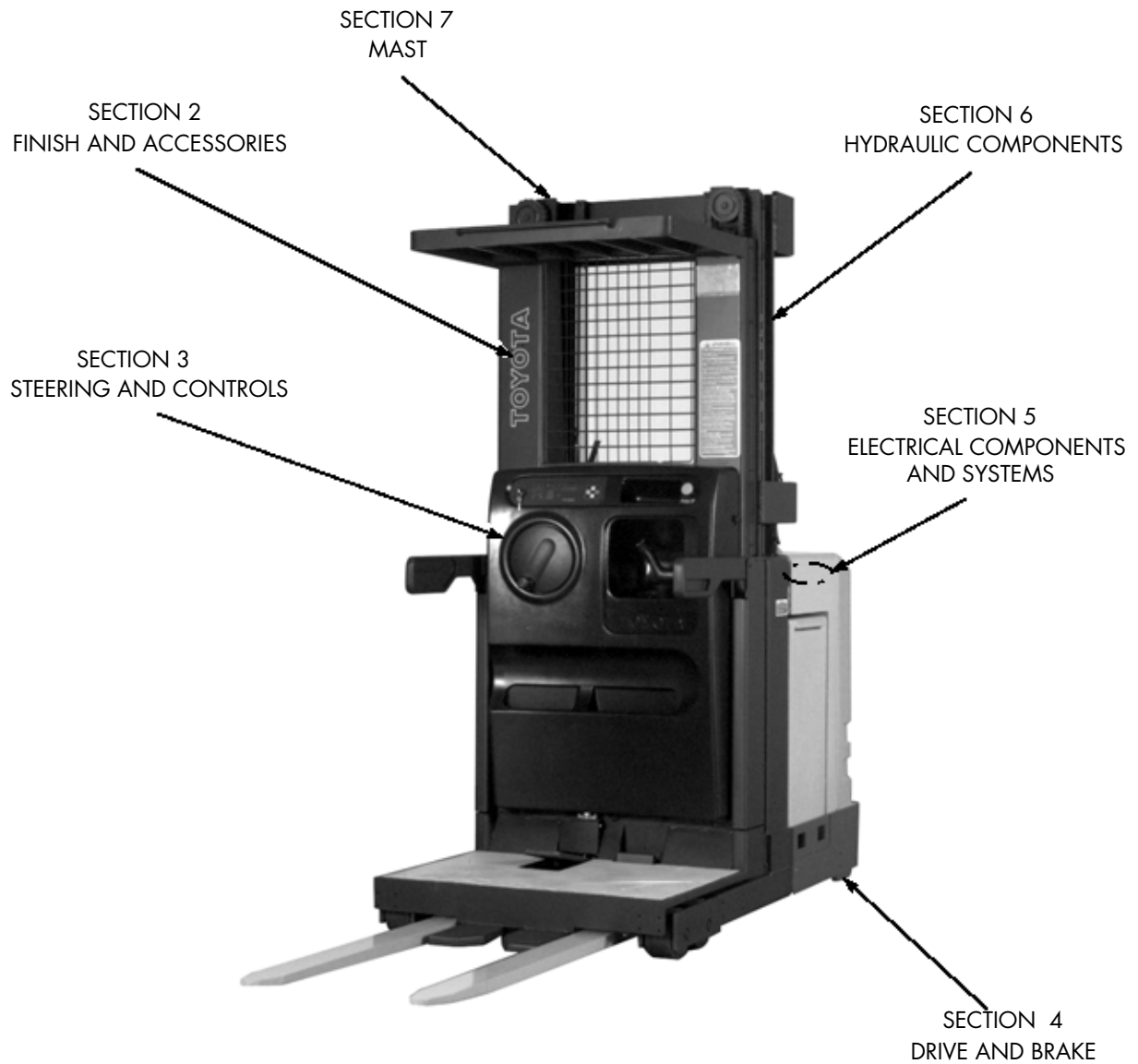


Figure 2-2: Frame Assembly - DS/DT

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Major Assemblies



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Figure 1-1: Major Assemblies

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Recommended Spare Parts List

Description	Part No.	Qty.	Page	Description	Part No.	Qty.	Page
Bearing Set	00590-41862-71	1	4-3	Kit, Guide and Insulator	00590-02857-71	1	5-4
Bearing, Ball	00590-02833-71	2	2-9	Kit, Lead Assembly	00590-39832-71	1	5-24
Bearing, Ball	00590-02835-71	2	2-10	Kit, Lead Assembly	00590-39842-71	1	5-25
Bearing, Ball	00590-02835-71	2	2-11	Kit, Ring Set	00590-46372-71	1	4-2
Bearing, Ball	00590-02835-71	2	2-15	Kit, Seal	00590-39777-71	1	4-3
Bearing, Commutator End	00590-04566-71	1	5-24	Kit, Seal, Proportional Valve	00590-41899-71	1	6-4
Bearing, Commutator End	00590-04568-71	1	5-25	Kit, Seal	00590-41903-71	1	6-4
Bearing, Cone	00590-47105-71	1	4-3	Kit, Seal	00590-41904-71	1	4-4
Bearing, Drive End	00590-39827-71	1	5-24	Microswitch	00590-46770-71	1	5-26
Bearing, Drive End	00590-39834-71	1	5-25	Module, WSI (Firmware)	00590-46660-71	1	5-6
Bearing, Mast Roller	00590-03062-71	12	7-2	O-Ring	00590-02974-71	1	3-1
Bearing, Mast Roller	00590-03062-71	8	7-1	O-Ring	00590-02974-71	1	4-2
Bearing, Sleeve, Flanged	00590-03072-71	4	2-4	O-Ring	00590-03441-71	1	6-2
Bearing, Sleeve	00590-00920-71	1	3-1	O-Ring	00590-39798-71	1	5-11
Bearing, Sleeve	00590-02701-71	2	5-26	O-Ring	00590-41868-71	1	6-2
Bearing, Sleeve	00590-03259-71	1	5-26	Packing, O-Ring	00590-03102-71	1	6-5
Bearing, Sleeve	00590-03260-71	1	5-26	Packing, O-Ring	00590-42286-71	1	6-9
Bearing, Sleeve	00590-03420-71	1	5-26	Resistor, Variable, Lift	00590-43054-71	1	5-26
Bearing, Sleeve	00590-03623-71	1	5-26	Resistor, Variable, Travel	00590-43053-71	1	5-26
Bearing	00590-02835-71	2	3-2	Ring, Back-Up	00590-03060-71	1	6-8
Bearing	00590-02893-71	2	7-10	Ring, Back-Up	00590-03060-71	1	6-9
Bearing	00590-02893-71	2	7-10	Ring, Packing	00590-03460-71	1	6-9
Bearing	00590-03419-71	1	4-2	Seal Kit	00590-42195-71	1	6-9
Bearing	00590-39699-71	2	2-11	Seal Kit	00590-42999-71	1	6-8
Bearing	00590-39701-71	1	2-11	Seal Oil	00590-02878-71	1	6-9
Bearing	00590-39736-71	1	2-12	Seal, Kit	00590-03058-71	1	6-7
Bearing	00590-39736-71	1	2-13	Seal, Oil	00590-02878-71	1	6-8
Bearing	00590-39736-71	1	2-14	Seal, Oil	00590-02941-71	1	6-8
Bearing	00590-46101-71	1	2-5	Seal, Oil	00590-03188-71	1	6-9
Brush Assembly	00590-41886-71	1	3-3	Seal	00590-02802-71	1	6-8
Brush Set	00590-40856-71	1	5-25	Seal	00590-03442-71	1	6-9
Brush	00590-41782-71	4	5-24	Seal	00590-39824-71	1	5-24
Bulb, Light	00590-02792-71	1	5-17	Shoe Assembly	00590-04520-71	2	4-6
Bulb, Light	00590-03451-71	2	5-15	Sleeve, Bearing	00590-02942-71	1	6-9
Bulb	00590-05273-71	1	5-11	Spring Assembly, Gas	00590-40336-71	2	2-4
Cable Assembly, Proximity	00590-03028-71	1	5-1	Spring, Brush	00590-04574-71	1	5-25
Cable Assembly, Proximity	00590-03287-71	1	3-1	Spring, Brush	00590-47120-71	4	5-24
Cable Assembly, Proximity	00590-03287-71	1	5-1	Spring, Compression, Hose Take-up	00590-03565-71	1	4-7
Cable Assembly, Proximity	00590-03288-71	1	5-1	Spring, Compression	00590-03566-71	1	4-4
Card Assembly, Carriage Interface	00590-40877-71	1	5-2	Spring, Compression	00590-03567-71	1	6-2
Card Assembly, Display Controller	00590-47113-71	1	5-6	Spring, Compression	00590-03568-71	1	5-26
Card Assembly, Interface	00590-39581-71	1	5-1	Spring, Return	00590-04521-71	2	4-6
Card Assembly, Steer Encoder	00590-39761-71	1	3-2	Spring, Tension	00590-02882-71	5	7-3
Card Assembly, Wire Guidance	00590-02843-71	1	5-8	Spring, Tension	00590-02961-71	1	2-6
Card Assembly, Wire Guidance	00590-02843-71	1	5-9	Spring, Tension	00590-02961-71	1	3-2
Controller, Lift	00590-42650-71	1	5-1	Spring, Torsion	00590-45841-71	1	5-26
Controller, Traction	00590-45693-71	1	5-1	Spring	00590-03565-71	1	2-11
Cylinder, Slave	00590-40558-71	1	4-4	Spring	00590-03583-71	1	6-8
Encoder Assembly	00590-03299-71	1	3-1	Spring	00590-03583-71	1	6-9
Filter, Mechanical Cartridge	00590-03061-71	1	6-2	Spring	00590-45842-71	1	5-26
Fuse, 10A	00590-39822-71	1	5-22	Steer Control Assembly, Toyota Tracker	00590-03633-71	1	5-5
Fuse, 15 Amp	00590-00552-71	3	5-3	Steer Control Assembly, Toyota Tracker	00590-03634-71	1	5-5
Fuse, 6 Amp	00590-03447-71	2	5-3	Switch (S2)	00590-03180-71	1	5-1
Fuse	00590-02781-71	1	5-3	Switch, Emergency Power OFF (S21)	00590-03248-71	1	5-2
Fuse	00590-02856-71	1	5-3	Switch, Operator's Keyed (S1)	00590-05217-71	1	5-2
Fuse	00590-03182-71	1	5-3	Switch, Push Button, Environmental (S2)	00590-03216-71	1	5-1
Fuse	00590-03446-71	1	5-14	Switch, Rocker	00590-03095-71	2	5-14
Hardware Kit	00590-39794-71	1	5-11	Switch, Rocker	00590-03095-71	2	5-15
Hose Clamp Kit	00590-42213-71	1	7-3	Switch, Wire Guidance	00590-03247-71	1	5-2
Hose Clamp Kit	00590-42215-71	1	7-3	Switch	00590-02995-71	1	2-11
Key, Set (2)	00590-04577-71	1	5-2	Switch	00590-02995-71	1	2-13
Kit, Axle Shaft	00590-39778-71	1	4-3				
Kit, BWI Service	00590-40415-71	1	5-24				
Kit, Drive Gear	00590-39779-71	1	4-3				
Kit, Field Coil	00590-47119-71	1	5-24				

Toyota Model 6BPU15 - General Information

Recommended Spare Parts List

Description	Part No.	Qty.	Page	Description	Part No.	Qty.	Page
Switch	00590-02995-71	1	5-19	Wheel Alteration	00590-40594-71	1	2-13
Switch	00590-02995-71	1	5-20	Wheel Alteration	00590-40594-71	1	2-14
Switch	00590-02995-71	2	2-4	Wheel, Load	00590-47132-71	1	7-10
Tip Kit, Contactor	00590-02782-71	1	5-4	Wheel, Load	00590-47134-71	1	7-10
Tire, Black Polyethylene, 90 Durometer.....				Wheel, Poly	00590-02761-71	1	2-9
.....	00590-40284-71	1	4-8	Wheel	00590-02763-71	1	2-10
Valve, Solenoid without Coil	00590-40257-71	1	6-6	Wheel	00590-02763-71	1	2-11
Warning Lamp Assembly (Amber) ..	00590-02785-71	1	5-11	Wheel	00590-02763-71	1	2-15
Wheel Alteration.....	00590-40594-71	1	2-12				

Hardware Parts List

Description	Part No.	Qty.	Description	Part No.	Qty.
Conduit	00590-47102-71	3'	Screw M12 X 30.....	00590-39687-71	AR
Elbow.....	00590-39599-71	2	Screw M12 X 40.....	00590-39688-71	AR
Fastener, Self Clinching	00590-03011-71	2	Screw M12 X 50.....	00590-03168-71	AR
Fastener, Self Clinching	00590-03079-71	5	Screw M12 x 60.....	00590-41864-71	AR
Fastener, Self-Clinching.....	00590-03436-71	4	Screw M12 X 70.....	00590-03607-71	AR
Guard, Hose.....	00590-03576-71	80	Screw M12 x 90.....	00590-39706-71	AR
Nut, Clamp.....	00590-45418-71	1	Screw, Plastic.....	00590-03625-71	2
Nut, Clamp.....	00590-45616-71	1	Screw, Self-Tapping	00590-03591-71	4
Nut, Jam.....	00590-03162-71	2	Screw, Set, Nylon.....	00590-41927-71	2
Nut, Lock.....	00590-00110-71	2	Screw, Set	00590-03474-71	1
Nut, Lock.....	00590-03037-71	8	Screw	00590-00211-71	1
Nut, Lock.....	00590-39769-71	1	Screw	00590-00416-71	2
Nut, Push.....	00590-03479-71	2	Screw	00590-00616-71	2
Nut, Push.....	00590-39680-71	2	Screw	00590-01444-71	2
Nut.....	00590-00180-71	4	Screw	00590-02970-71	18
Nut.....	00590-02810-71	2	Screw	00590-02760-71	4
Nut.....	00590-02881-71	20	Screw	00590-02764-71	3
Nut.....	00590-02912-71	8	Screw	00590-02770-71	5
Nut.....	00590-02992-71	5	Screw	00590-02846-71	3
Nut.....	00590-03036-71	8	Screw	00590-02883-71	2
Nut.....	00590-03093-71	3	Screw	00590-02908-71	2
Nut.....	00590-03144-71	4	Screw	00590-02917-71	18
Nut.....	00590-03177-71	2	Screw	00590-02929-71	4
Nut.....	00590-03435-71	8	Screw	00590-02951-71	1
Nut.....	00590-03476-71	5	Screw	00590-02960-71	20
Nut.....	00590-03477-71	8	Screw	00590-02981-71	2
Nut.....	00590-03478-71	1	Screw	00590-02989-71	11
Nut.....	00590-03480-71	1	Screw	00590-03001-71	22
Nut.....	00590-03551-71	1	Screw	00590-03006-71	2
Nut.....	00590-03584-71	6	Screw	00590-03008-71	1
Nut.....	00590-03592-71	AR	Screw	00590-03013-71	1
Nut.....	00590-03629-71	6	Screw	00590-03018-71	38
Nut.....	00590-14737-71	1	Screw	00590-03021-71	12
Nut.....	00590-39819-71	4	Screw	00590-03022-71	2
Nut.....	00590-45932-71	4	Screw	00590-03023-71	1
Pin (min. order - 50).....	00590-00182-71	2	Screw	00590-03029-71	14
Pin, Clevis.....	00590-00446-71	1	Screw	00590-03032-71	18
Pin, Cotter	00590-01576-71	1	Screw	00590-03071-71	2
Pin, Cotter	00590-03076-71	6	Screw	00590-03074-71	14
Pin, Cotter.....	00590-00444-71	2	Screw	00590-03075-71	4
Pin, Cotter.....	00590-02944-71	6	Screw	00590-03085-71	42
Pin, Cotter.....	00590-03076-71	1	Screw	00590-03098-71	1
Pin, Cotter.....	00590-03076-71	4	Screw	00590-03100-71	12
Pin, Pivot	00590-03613-71	1	Screw	00590-03113-71	6
Pin, Spiral.....	00590-03496-71	1	Screw	00590-03125-71	25
Pin, Spirol.....	00590-03495-71	2	Screw	00590-03127-71	9
Pin, Spring.....	00590-03176-71	1	Screw	00590-03158-71	2
Pin, Yoke	00590-03130-71	2	Screw	00590-03167-71	22
Pin.....	00590-40748-71	1	Screw	00590-03172-71	2
Ring, Snap, External.....	00590-03494-71	1	Screw	00590-03175-71	8
Ring, Snap.....	00590-00360-71	6	Screw	00590-03204-71	2
Ring, Snap.....	00590-02879-71	1	Screw	00590-03421-71	1
Ring, Snap.....	00590-02905-71	9	Screw	00590-03422-71	2
Ring, Snap.....	00590-02938-71	1	Screw	00590-03424-71	6
Ring, Snap.....	00590-03003-71	1	Screw	00590-03425-71	2
Ring, Snap.....	00590-03141-71	2	Screw	00590-03426-71	8
Ring, Snap.....	00590-03143-71	2	Screw	00590-03430-71	6
Ring, Snap.....	00590-03492-71	1	Screw	00590-03431-71	2
Ring, Snap.....	00590-03493-71	2	Screw	00590-03432-71	6
Ring, Snap.....	00590-03606-71	1	Screw	00590-03433-71	4
Screw	00590-03468-71	2	Screw	00590-03434-71	12
Screw 20MM.....	00590-03167-71	16	Screw	00590-03435-71	4
Screw 30MM.....	00590-39687-71	16	Screw	00590-03465-71	5
Screw 40MM.....	00590-39688-71	16	Screw	00590-03470-71	2
Screw 50MM.....	00590-03168-71	16	Screw	00590-03471-71	10

Toyota Model 6BPU15 - General Information

Hardware Parts List

Description	Part No.	Qty.	Description	Part No.	Qty.
Screw	00590-03471-71	10	Washer, Flat.....	00590-03092-71	12
Screw	00590-03472-71	2	Washer, Flat.....	00590-03163-71	5
Screw	00590-03473-71	1	Washer, Flat.....	00590-03208-71	1
Screw	00590-03591-71	19	Washer, Flat.....	00590-03482-71	2
Screw	00590-03607-71	8	Washer, Flat.....	00590-03483-71	2
Screw	00590-03616-71	1	Washer, Flat.....	00590-03599-71	3
Screw	00590-03628-71	2	Washer, Flat.....	00590-41926-71	2
Screw	00590-39687-71	12	Washer, Flat.....	00590-44047-71	1
Screw	00590-39708-71	1	Washer, Lock	00590-00113-71	7
Screw	00590-39782-71	4	Washer, Lock	00590-00224-71	4
Screw	00590-39812-71	6	Washer, Lock	00590-00246-71	4
Screw	00590-41863-71	2	Washer, Lock	00590-00569-71	1
Screw	00590-41865-71	4	Washer, Lock	00590-01364-71	2
Screw	00590-41866-71	6	Washer, Lock	00590-01679-71	4
Screw	00590-41877-71	2	Washer, Lock	00590-02709-71	3
Screw	00590-41894-71	2	Washer, Lock	00590-02840-71	17
Screw	00590-41908-71	4	Washer, Lock	00590-02851-71	10
Screw	00590-41916-71	2	Washer, Lock	00590-03078-71	4
Screw	00590-41922-71	5	Washer, Lock	00590-03081-71	1
Screw	00590-41973-71	2	Washer, Lock	00590-03484-71	2
Screw	00590-42236-71	1	Washer, Lock	00590-39705-71	16
Screw	00590-42244-71	1	Washer, Lock	00590-41907-71	4
Screw	00590-45927-71	1	Washer, Lock	00590-44567-71	4
Screw	00590-47107-71	2	Washer	00590-00064-71	4
Screw	00590-47109-71	8	Washer	00590-00917-71	1
Shim	00590-03159-71	7	Washer	00590-01319-71	2
Spacer, Pulley	00590-02950-71	1	Washer	00590-02710-71	1
Washer	00590-03004-71	4	Washer	00590-02813-71	12
Washer, End Cap	00590-41816-71	2	Washer	00590-02948-71	2
Washer, Fiber	00590-02711-71	2	Washer	00590-02968-71	4
Washer, Flat	00590-00112-71	2	Washer	00590-02973-71	2
Washer, Flat	00590-00396-71	4	Washer	00590-03004-71	4
Washer, Flat	00590-00568-71	16	Washer	00590-03092-71	6
Washer, Flat	00590-01319-71	6	Washer	00590-03203-71	2
Washer, Flat	00590-02401-71	2	Washer	00590-03595-71	12
Washer, Flat	00590-02813-71	AR	Washer	00590-03599-71	1
Washer, Flat	00590-02940-71	30	Washer	00590-39705-71	AR
Washer, Flat	00590-02940-71	6	Washer	00590-39813-71	8
Washer, Flat	00590-02948-71	15	Washer	00590-39919-71	AR
Washer, Flat	00590-02969-71	25	Washer	00590-41867-71	1
Washer, Flat	00590-02973-71	5			
Washer, Flat	00590-02979-71	8			

SECTION 2 Finish and Accessories

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Major Assemblies

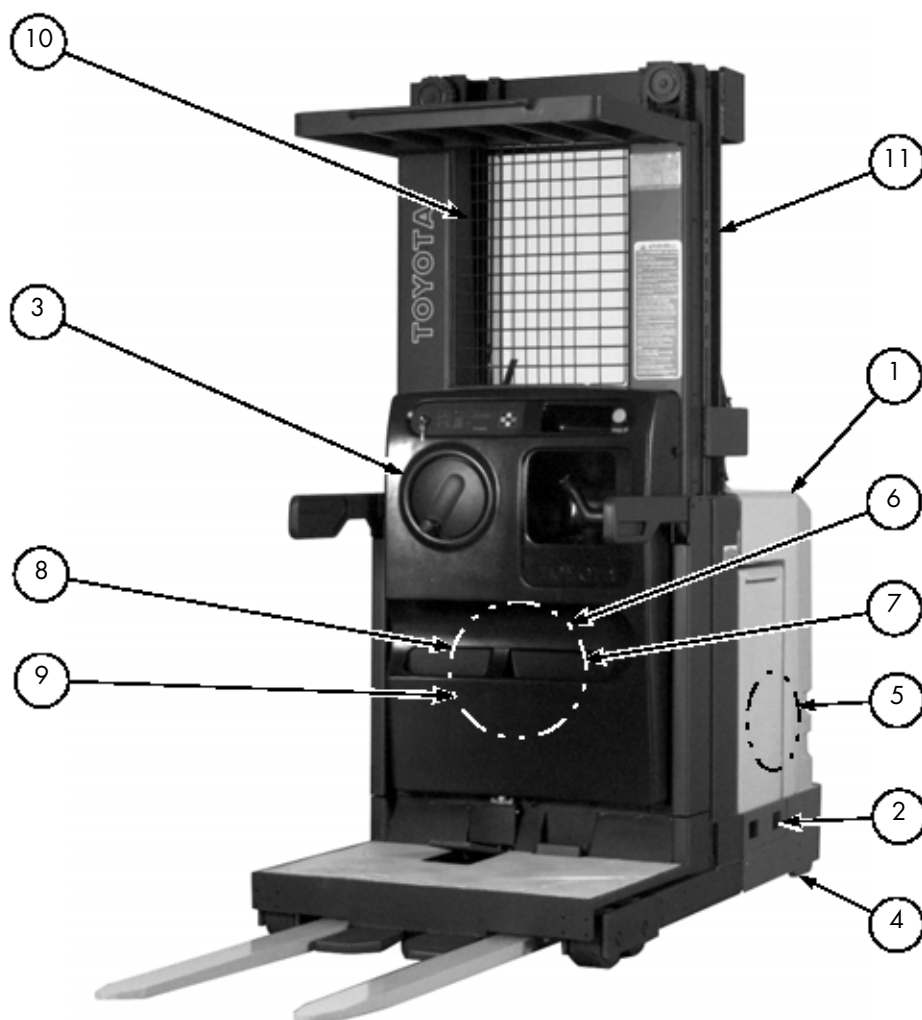


Figure 2-1: Major Assemblies

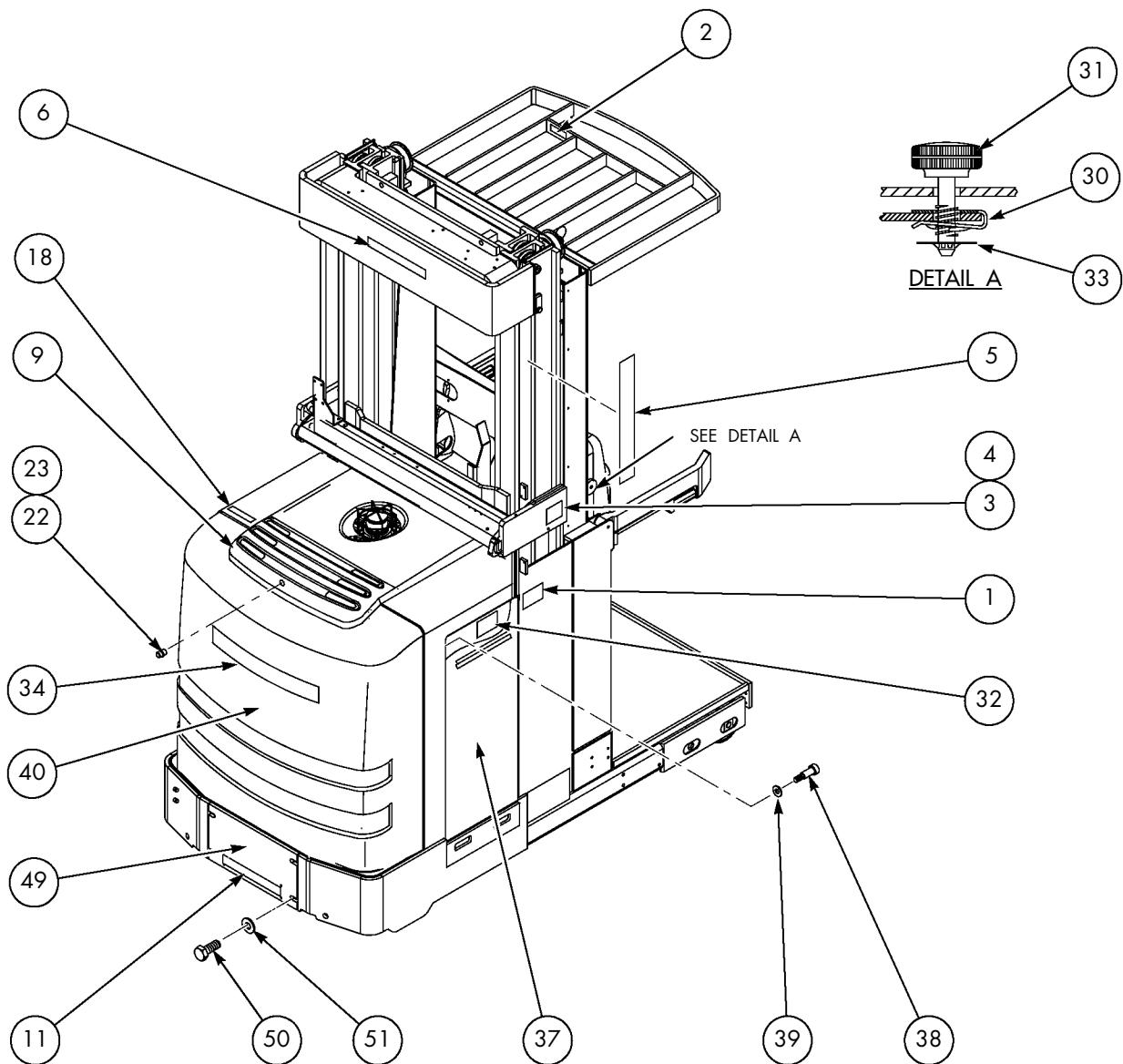
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FIGURE 2-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1		Ref.	Power Section Weldment (Contact Technical Support)	
2		Ref.	Battery Gate Installation (See Figure 2-3.)	
3		Ref.	Steering and Control Components (See Figure 3-1a.)	
4		Ref.	Drive and Brake Components (See Figure 4-1.)	
5		Ref.	Electrical System (See Figure 5-1a.)	
6		Ref.	Contactor Assembly (See Figure 5-3.)	
7		Ref.	Manifold Assembly, Lift/Lower (See Figure 6-3.)	
8		Ref.	Motor Assembly, Lift (See Figure 5-25.)	
9		Ref.	Pump and Motor Assembly, Lift (See Figure 6-7.)	
10		Ref.	Cylinder Assemblies, Lift (See Figure 6-8.)	
11		Ref.	Elevating Section(See Figure 7-1a.)	

List 2-1: Major Assemblies

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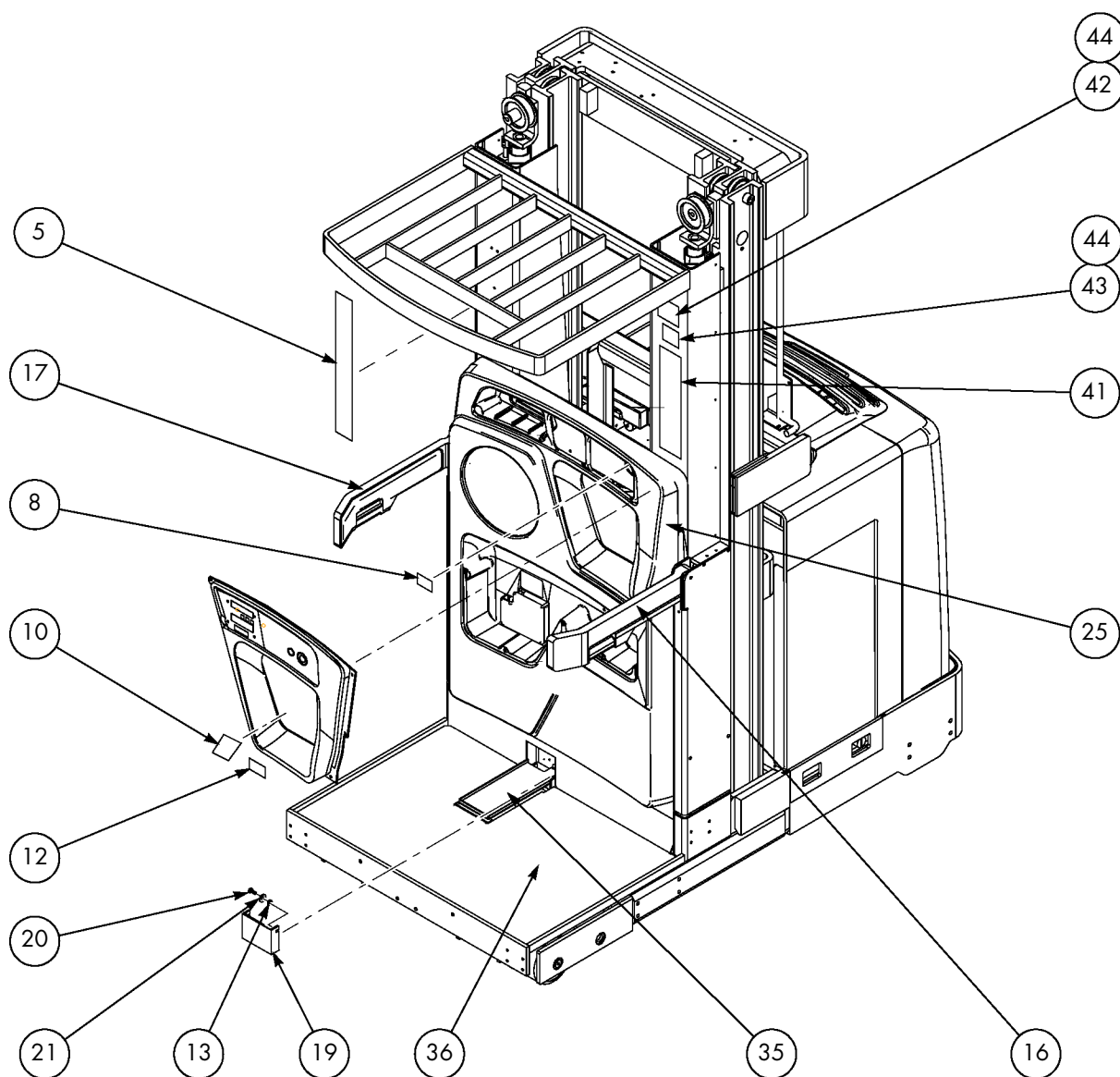
Finish Details



O114-021-009-V1 SHT 1 OF 4

Figure 2-2a: Finish Details

Finish Details



O114-021-009-V2 SHT 2 OF 4

Figure 2-2b: Finish Details

Finish Details

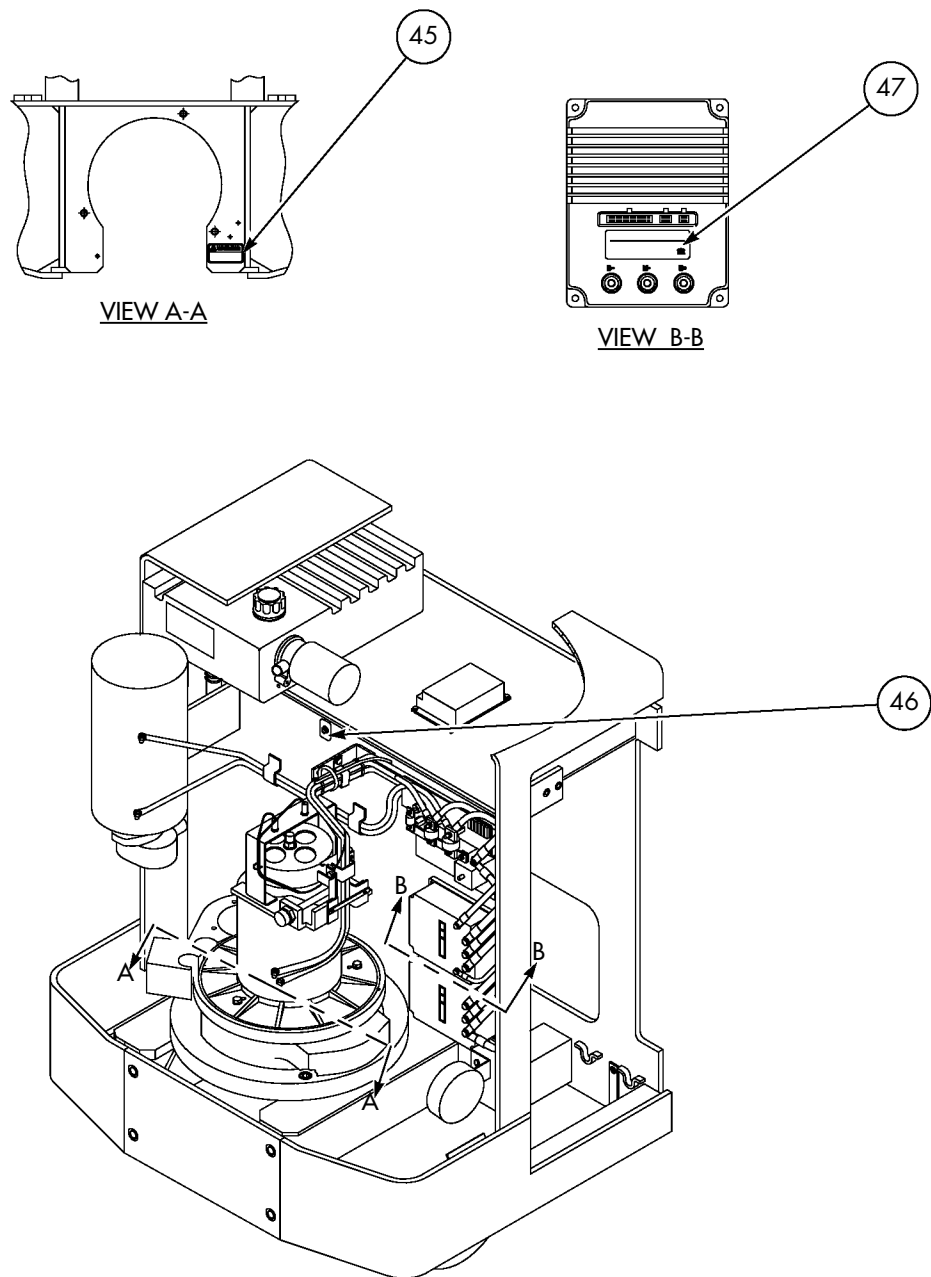


Figure 2-2c: Finish Details

O114-021-009-V3 SHT 3 OF 4

Finish Details

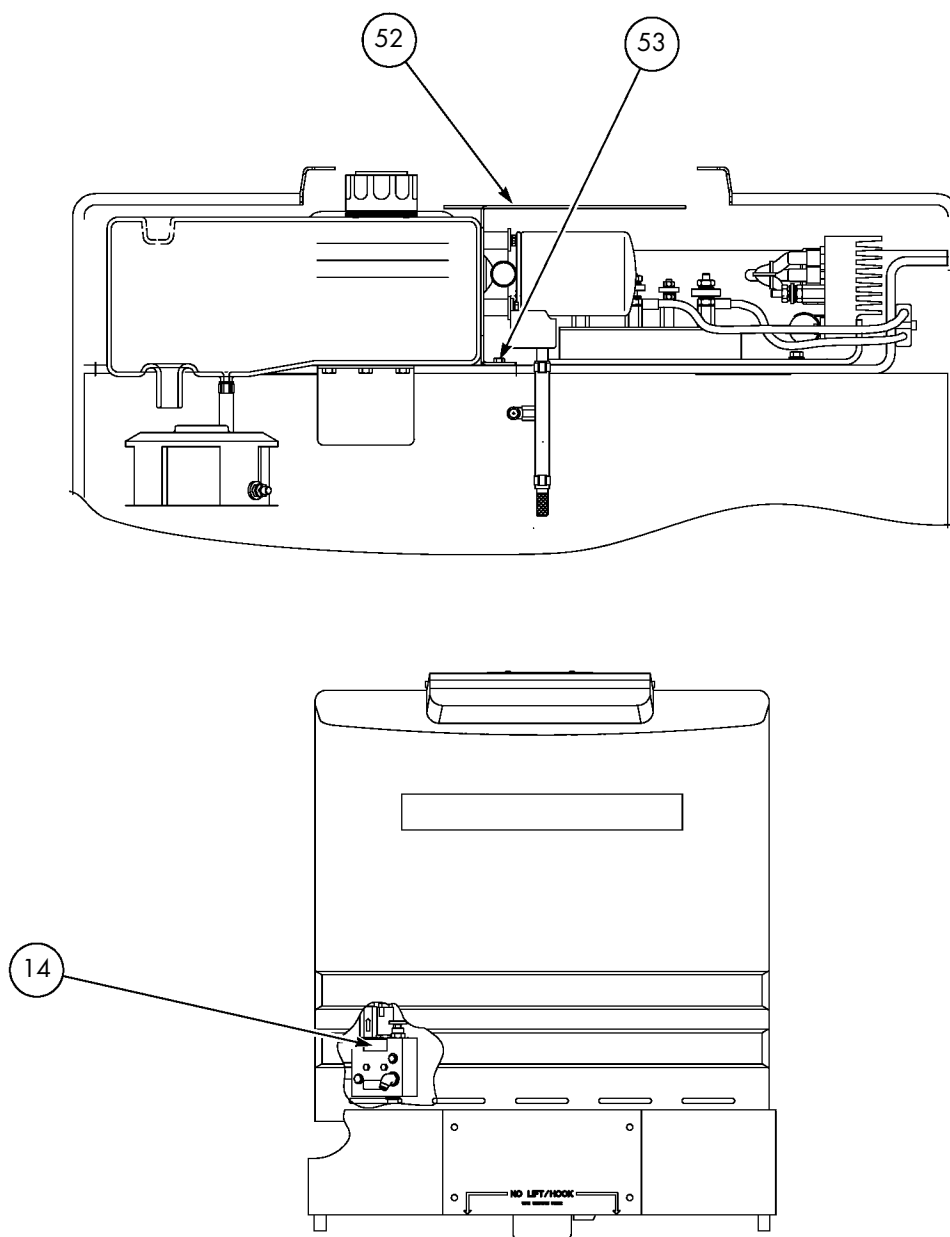


Figure 2-2d: Finish Details

O114-021-009-V4 SHT 4 OF 4

FIGURE 2-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-41810-71	Decal, Warning, Battery	
2	1	00590-03505-71	Decal, Overhead Guard	
3	2	00590-03511-71	Plate, Identification	
4	8	00590-02956-71	Stud	
5	3	00590-03014-71	Decal, Toyota	
6	1	00590-04496-71	Decal, Toyota	
8	1	00590-03524-71	Decal, Disconnect	
9	1	00590-03205-71	Cover, Top Tractor	
10	1	00590-03502-71	Decal, Icon	
11	1	00590-03409-71	Decal, Bumper	A
12	1	00590-03500-71	Decal, Guidance/Bypass	A
13	2	00590-00113-71	Washer, Lock	
14	1	00590-03512-71	Decal, Emergency Lower	
15	1	00590-03501-71	Decal, Guidance/Bypass (Not Shown)	B
16	1	00590-03397-71	Pad, Foam, Right-Hand	
17	1	00590-03398-71	Pad, Foam, Left-Hand	
18	1	00590-03513-71	Decal	
19	1	00590-03265-71	Cover	
20	2	00590-00616-71	Screw	
21	2	00590-00112-71	Washer, Flat	
22	2	00590-03264-71	Button Assembly	
23	2	00590-03479-71	Nut, Push	
25	1	00590-03401-71	Cover, Assembly, Bucket	
26	1	Ref.	Tether, Mechanical Installation (See Figure 2-18.) (Not shown)	
30	2	00590-39678-71	Receptacle, Clip-on	
31	2	00590-39679-71	Knob	
32	1	00590-03503-71	Decal, Battery Cable	
33	2	00590-39680-71	Nut, Push	
34	1	00590-03416-71	Decal, Toyota	
35	1	00590-02752-71	Pad, Pedal, Soft (Standard)	
	1	00590-02753-71	Pad, Pedal, Hard (Optional), 1/2 inch Non-Skid	
36	1	00590-02824-71	Pad, Floor, Soft (Standard)	
	1	00590-02825-71	Pad, Floor, Hard (Optional), 1/2 inch Non-Skid	
37	1	00590-39587-71	Cover, Battery, Right-Hand	
	1	00590-39588-71	Cover, Battery, Left-Hand	
38	4	00590-03435-71	Screw	
39	AR	00590-39919-71	Washer	
40	1	00590-03116-71	Cover, Rear Tractor (Standard)	
	1	00590-39820-71	Cover, Rear Tractor (Cold Storage)	
41	1	00590-03515-71	Decal, Warning	
42	1	00590-03530-71	Plate, Specification, Lower/Lift, US	
43	1	00590-03526-71	Plate, UL Control Number	C
A= With Wire Guidance B= Without Wire Guidance C= E - Label				

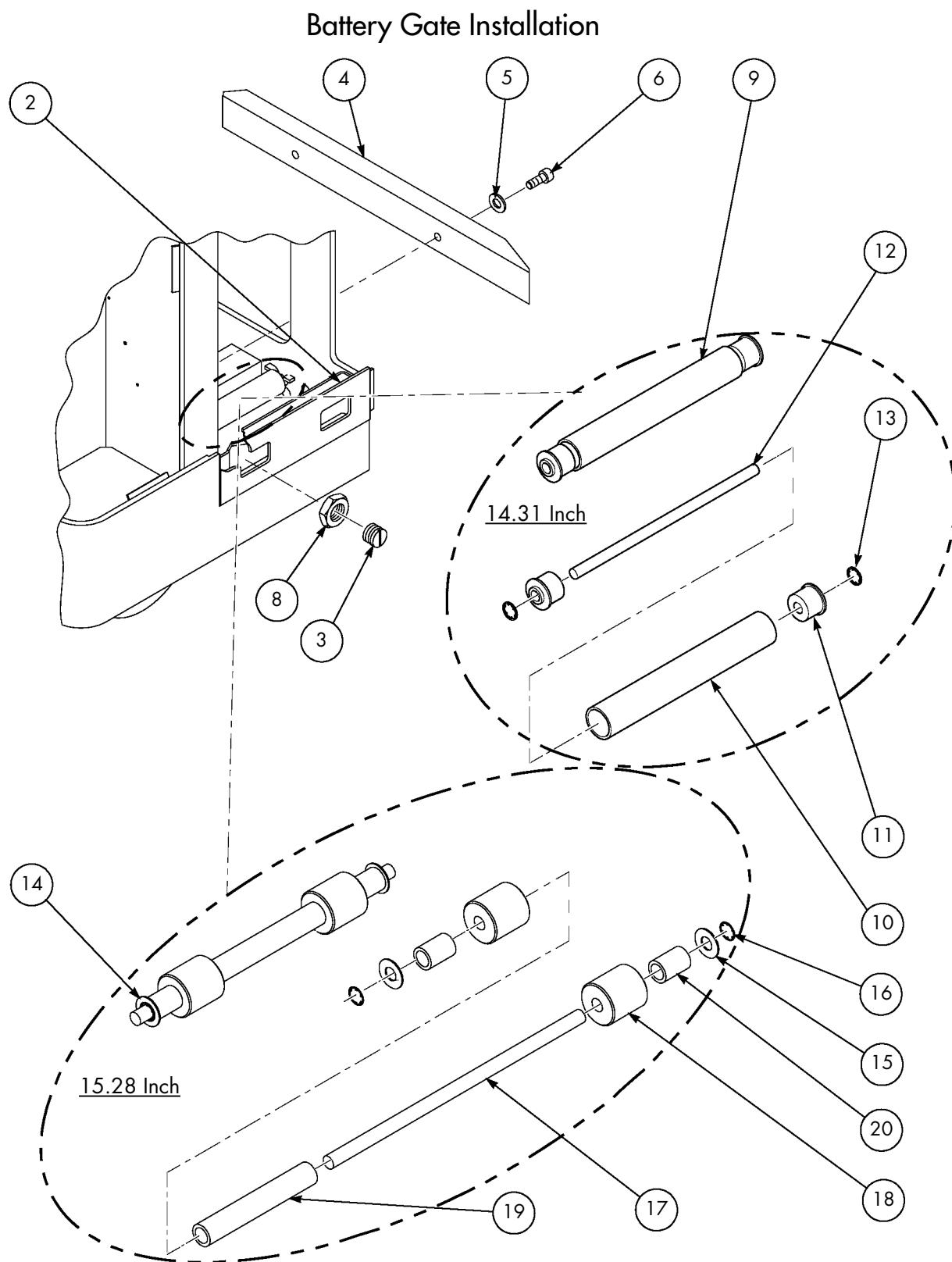
List 2-2: Finish Details (Sheet 1 of 2)

Finish Details

FIGURE 2-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
44	6	00590-02956-71	Stud	C
45	1	00590-03506-71	Decal, Warning, Drive Unit	
46	1	00590-03508-71	Label, ESD	
47	2	00590-39682-71	Decal, Motor Controller	
49	1	00590-41850-71	Weldment, Gate, Bumper	
50	4	00590-39687-71	Screw	
51	4	00590-02813-71	Washer	
52	1	00590-41840-71	Bracket, Light	
53	2	00590-03085-71	Screw	
A= With Wire Guidance B= Without Wire Guidance C= E - Label				

List 2-2: Finish Details (Sheet 2 of 2)

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Figure 2-3: Battery Gate Installation

Battery Gate Installation

FIGURE 2-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02750-71	Battery Gate, Right-Hand (Not Shown)	A
2	1-2	00590-02820-71	Battery Gate, Left-Hand (QTY 2 for Bat. Compt. Size (inch) 32.5H x 36.75W x 14.5D	A, B
3	2	00590-02896-71	Plug, Battery	
4	1	00590-02958-71	Spacer, Battery	A
5	2	00590-02973-71	Washer	A
6	2	00590-03071-71	Screw	A
8	2	00590-03162-71	Nut, Jam	
9	6	00590-03255-71	Roller Assembly (includes: Items 10 thru 13), 14.31 inch	
10	1	00590-39683-71	Tube, Roller	
11	2	00590-39684-71	Sleeve, Bearing	
12	1	00590-39685-71	Shaft	
13	2	00590-00065-71	Ring, Retainer	
14	6	00590-47007-71	Roller Assembly (includes: Items 15 thru 20), 15.28 inch	
15	2	00590-02948-71	Washer, Flat	
16	2	00590-00065-71	Ring, Retainer	
17	1	00590-39685-71	Shaft, Roller	
18	2	00590-00063-71	Roller, Battery	
19	1	00590-47098-71	Spacer	
20	2	00590-47099-71	Spacer	
A= Battery Compartment Size (in.) 32.5H x 31.5L x 13.25W B= Battery Compartment Size (in.) 32.5H x 36.75L x 14.5W				

List 2-3: Battery Gate Installation

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Sidegate Installation

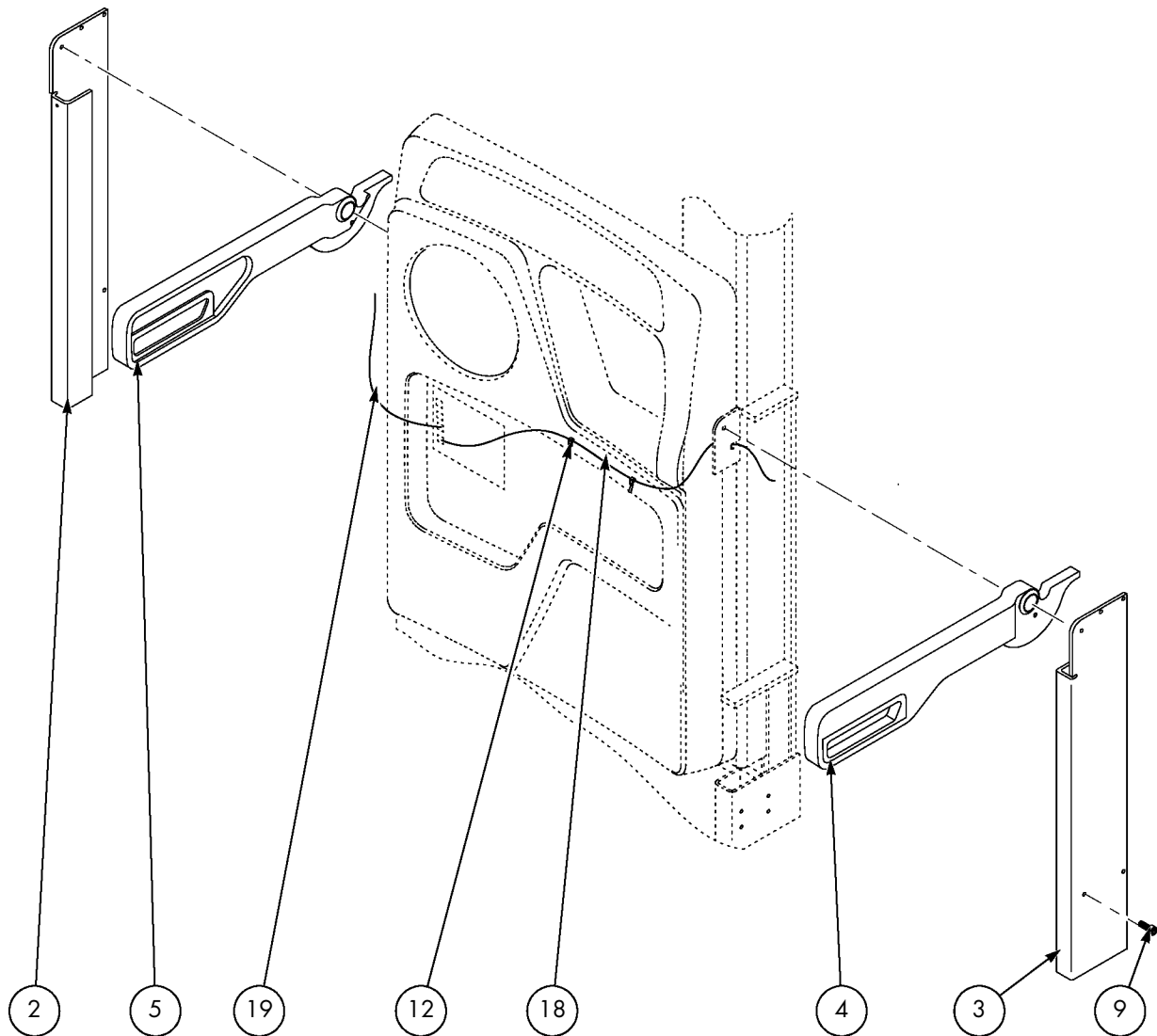
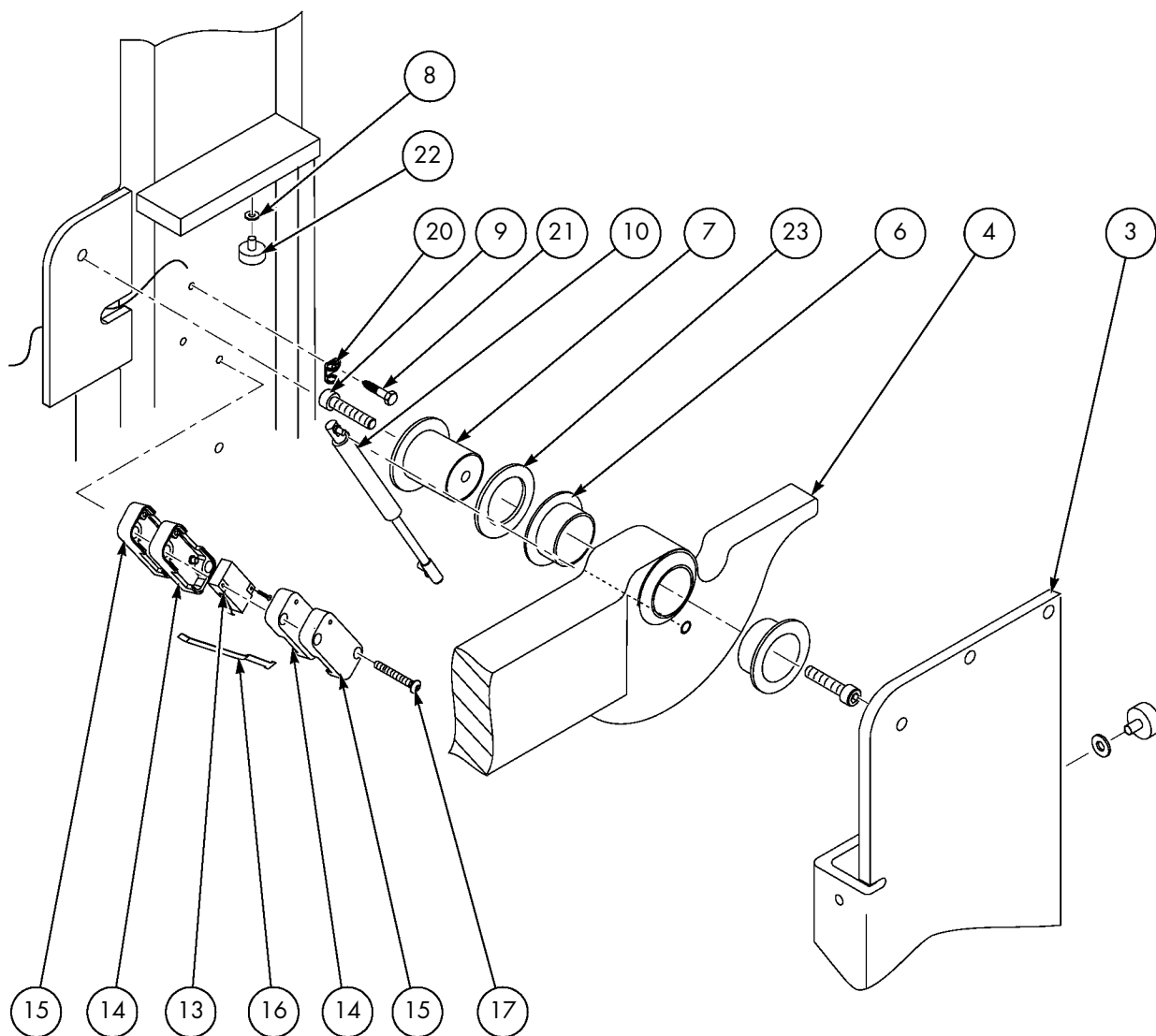


Figure 2-4a: Sidegate Installation

O114-021-011-B-1 SHT 1 OF 2

Sidegate Installation



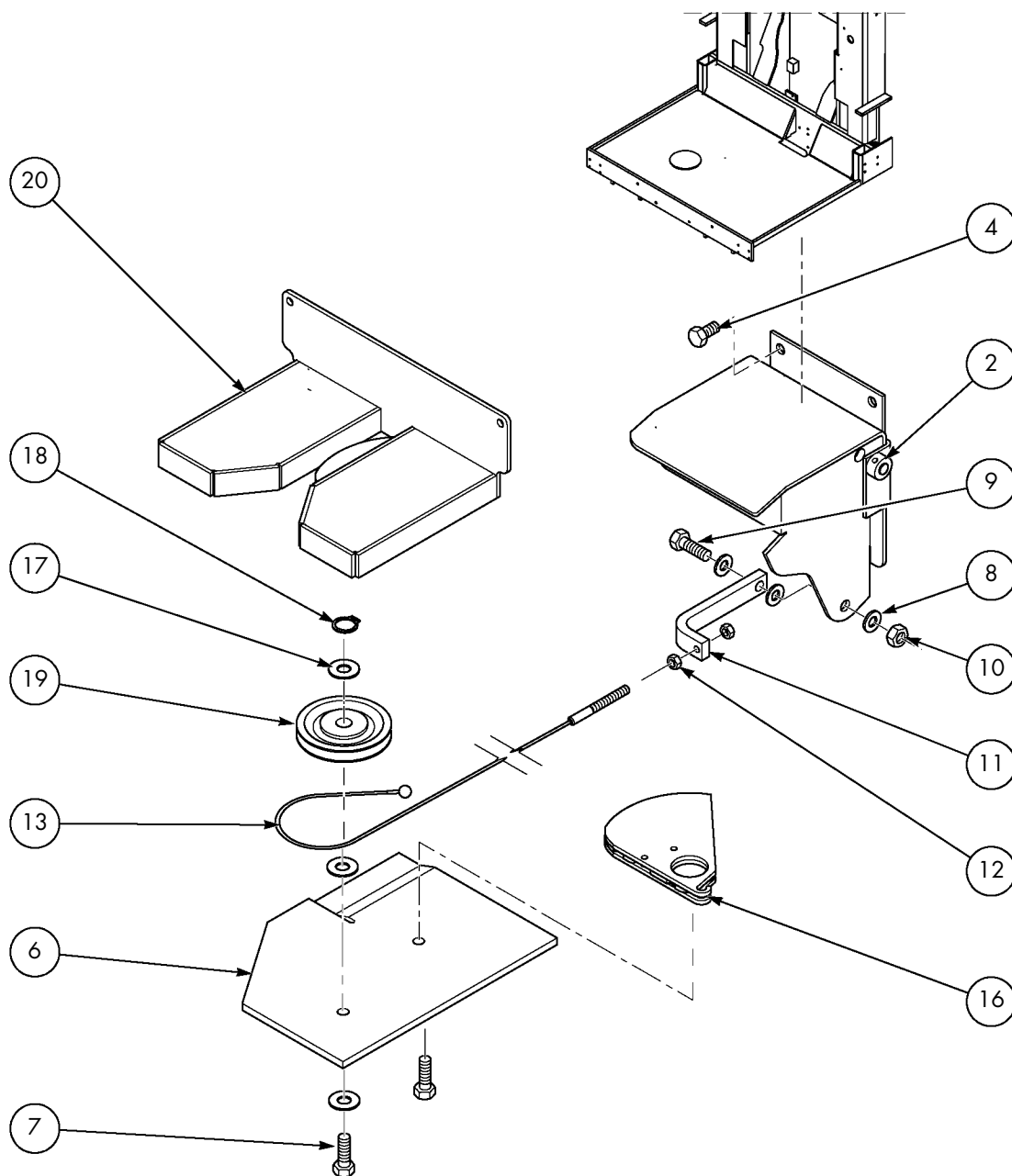
O114-021-011-B-2 SHT 2 OF 2

Figure 2-4b: Sidegate Installation

FIGURE 2-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	1	00590-02821-71	Plate, Sidegate	
3	1	00590-02897-71	Plate, Sidegate	
4	1	00590-02959-71	Sidegate, Machine, Right-Hand	
5	1	00590-03017-71	Sidegate, Machine, Left-Hand	
6	4	00590-03072-71	Bearing, Sleeve, Flanged	R
7	2	00590-03117-71	Pin, Pivot	
8	4	00590-03163-71	Washer, Flat	
9	12	00590-03029-71	Screw	
10	2	00590-40336-71	Spring Assembly, Gas (includes:)	R
	2	00590-41869-71	Ball, Joint	
		00590-47100-71	Spring Assembly, Gas (S/N 71,684 and Up)	
12	3	00590-00556-71	Cable Tie	B
13	2	00590-02995-71	Switch	B, R
14	2	00590-02794-71	Housing, Inner, Mast Limit	B
15	2	00590-02871-71	Housing, Outer	B
16	2	00590-02931-71	Lever, Mast, Limit Switch	B
17	4	00590-03100-71	Screw	B
18	1	00590-40277-71	Cable, Sidegate, Interlock	B
19	1	00590-40282-71	Cable, Sidegate, Interlock	B
20	2	00590-03174-71	Clamp, Loop, Cushioned	B
21	2	00590-02989-71	Screw	B
22	4	00590-03278-71	Stop, Sidegate	
23	2	00590-03482-71	Washer, Flat	
A= Standard B= With Safety Interlock R= Recommended Spare				

List 2-4: Sidegate Installation

Platform and Pallet Clamp Assembly



O114019-669J

Figure 2-5: Platform and Pallet Clamp Assembly

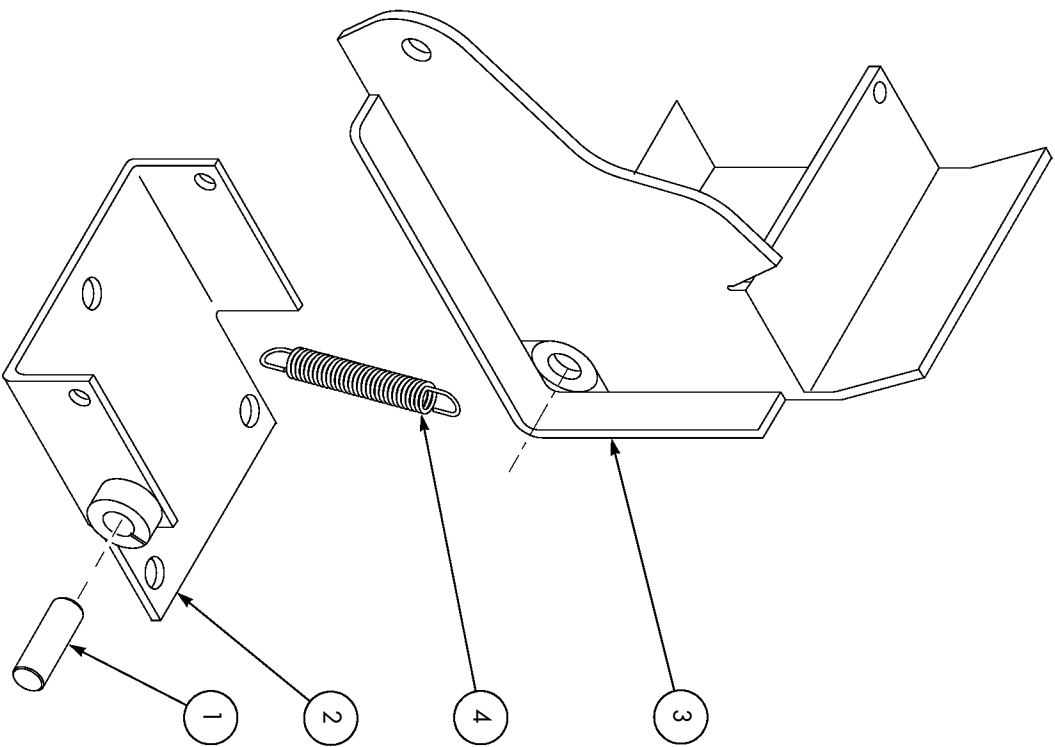
Platform and Pallet Clamp Assembly

FIGURE 2-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	1	00590-02822-71	Pedal Assembly, Pallet Clamp (See Figure 2-6.)	A
4	3	00590-02960-71	Screw	A
6	1	00590-40410-71	Weldment, Guard	A
7	2	00590-41863-71	Screw	A
8	3	00590-02973-71	Washer, Flat	A
9	1	00590-03204-71	Screw	A
10	1	00590-45932-71	Nut	A
11	1	00590-03579-71	Flange, Clevis	A
12	2	00590-03584-71	Nut	A
13	1	00590-03588-71	Cable, Assembly	A
16	1	00590-40292-71	Pallet clamp (includes:)	A
	1	00590-46101-71	Bearing	R
	2	00590-40330-71	Pin, Spiral	
	1	00590-39949-71	Spring	
17	3	00590-03599-71	Washer, Flat	A
18	1	00590-03606-71	Ring, Snap	A
19	1	00590-03610-71	Pulley, Cable	A
20	1	NSS	Weldment, Platform, Toyota	B
A= With Pallet Clamp B= Not Sold Separately R= Recommended Spare				

List 2-5: Platform and Pallet Clamp Assembly

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Pedal Assembly, Pallet Clamp



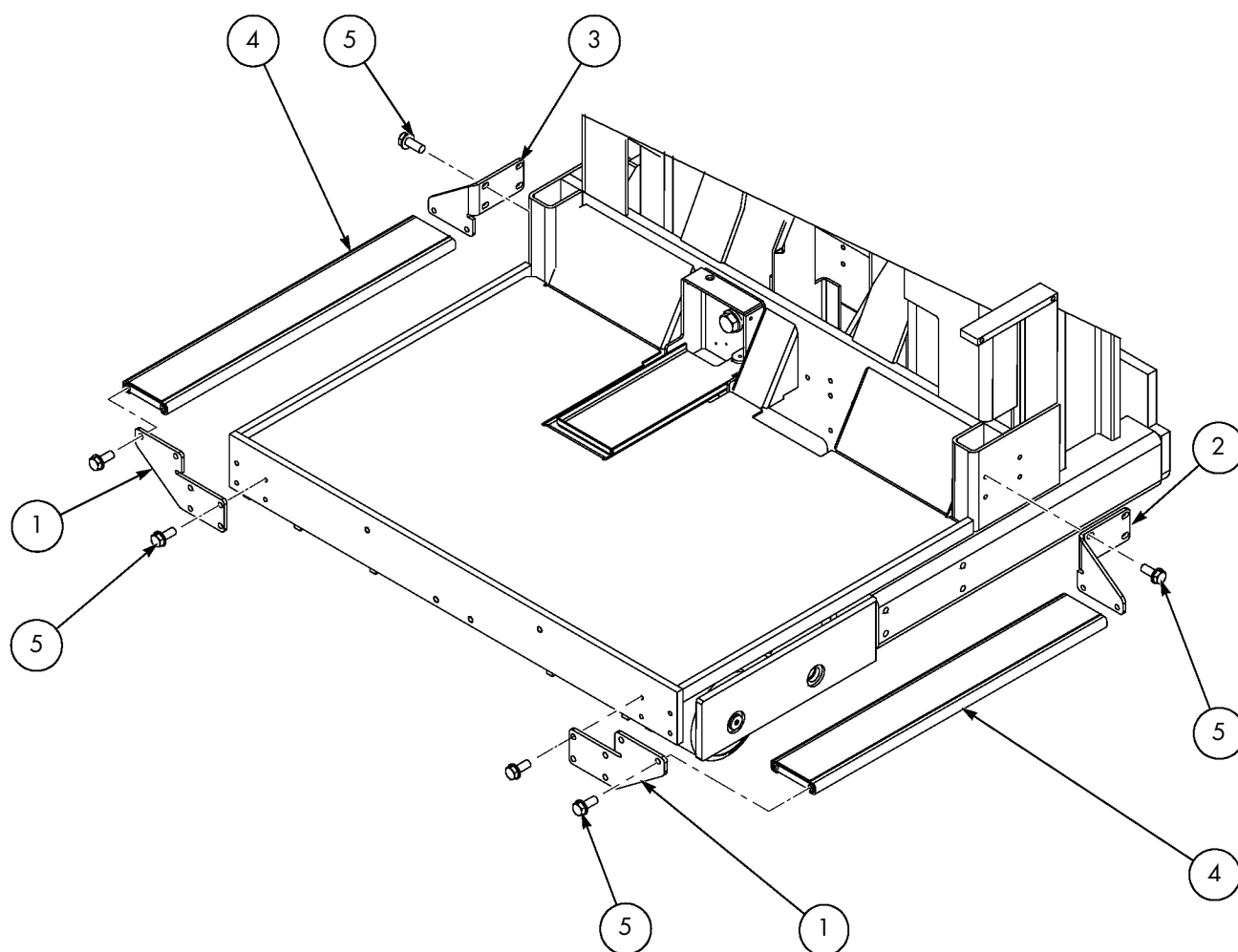
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Figure 2-6: Pedal Assembly, Pallet Clamp

FIGURE 2-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	005900-02822-71	Pedal Assembly, Pallet Clamp	
1	1	005900-02751-71	Shaft, Pivot	
2	1	005900-02823-71	Weldment, Bracket, Pivot	
3	1	005900-39686-71	Weldment, Pedal	
4	1	005900-02961-71	Spring, Tension	R
R= Recommended Spare				

List 2-6: Pedal Assembly, Pallet Clamp

Platform Extension Assembly (47 in. to 55 in.)



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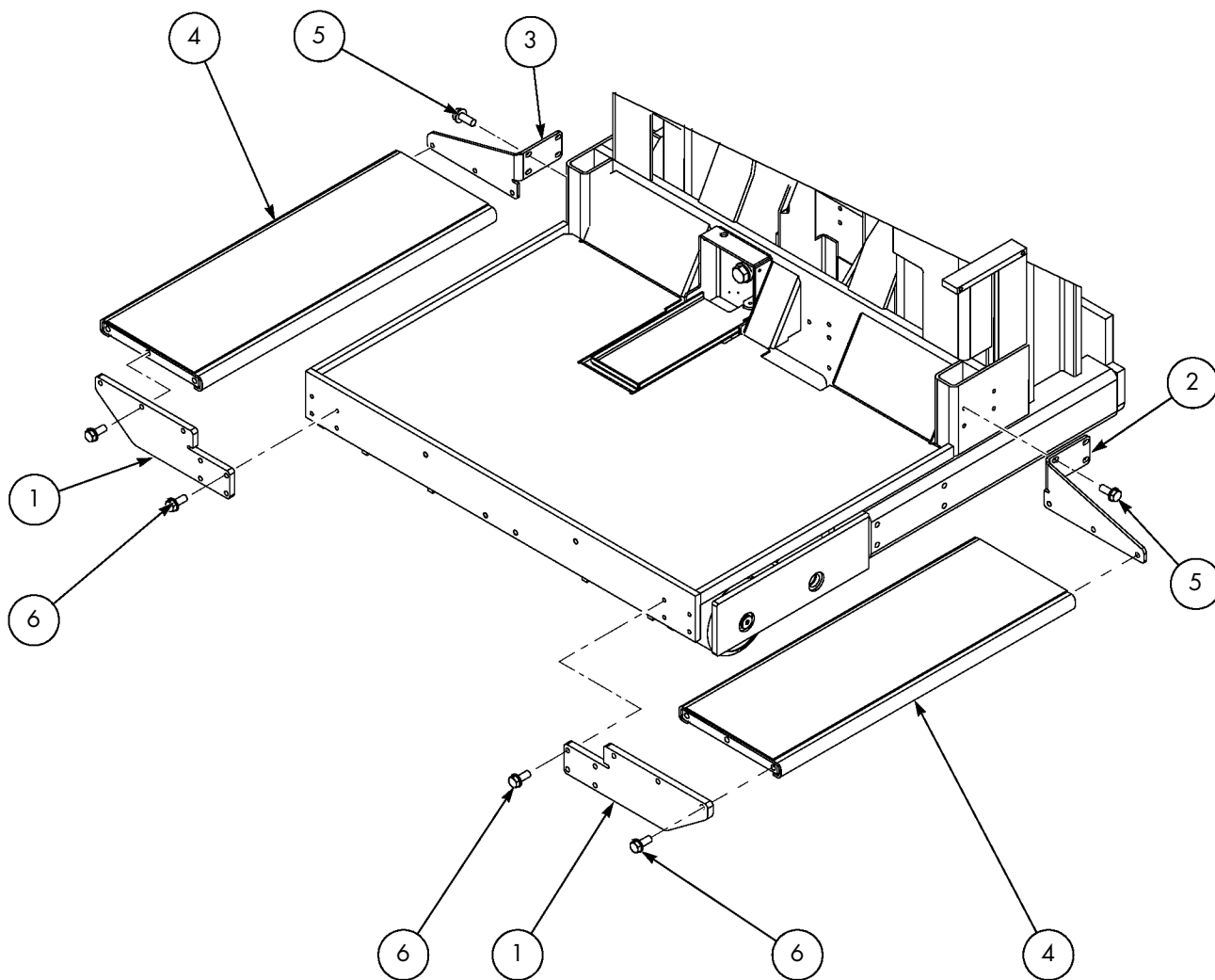
Figure 2-7: Platform Extension Assembly (47 in. to 55 in.)

Platform Extension Assembly (47 in. to 55 in.)

FIGURE 2-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	00590-02754-71	Plate, Extension Mounting	A
	2	00590-02755-71	Plate, Extension Mounting	B
	2	00590-02756-71	Plate, Extension Mounting	C
2	1	00590-02826-71	Plate, Extension Mounting (Right-Hand)	A
	1	00590-02827-71	Plate, Extension Mounting (Right-Hand)	B
	1	00590-02828-71	Plate, Extension Mounting (Right-Hand)	C
3	1	00590-02899-71	Plate, Extension Mounting (Left-Hand)	A
	1	00590-02900-71	Plate, Extension Mounting (Left-Hand)	B
	1	00590-02901-71	Plate, Extension Mounting (Left-Hand)	C
4	2	00590-02962-71	Weldment, Platform Extension	A
	2	00590-02963-71	Weldment, Platform Extension	B
	2	00590-02964-71	Weldment, Platform Extension	C
5	24	00590-03018-71	Screw	
A= Overall Platform Width - 47 inches B= Overall Platform Width - 51 inches C= Overall Platform Width - 55 inches				

List 2-7: Platform Extension Assembly (47 in. to 55 in.)

Platform Extension Assembly (59 in. to 63 in.)



O114-009-263-A

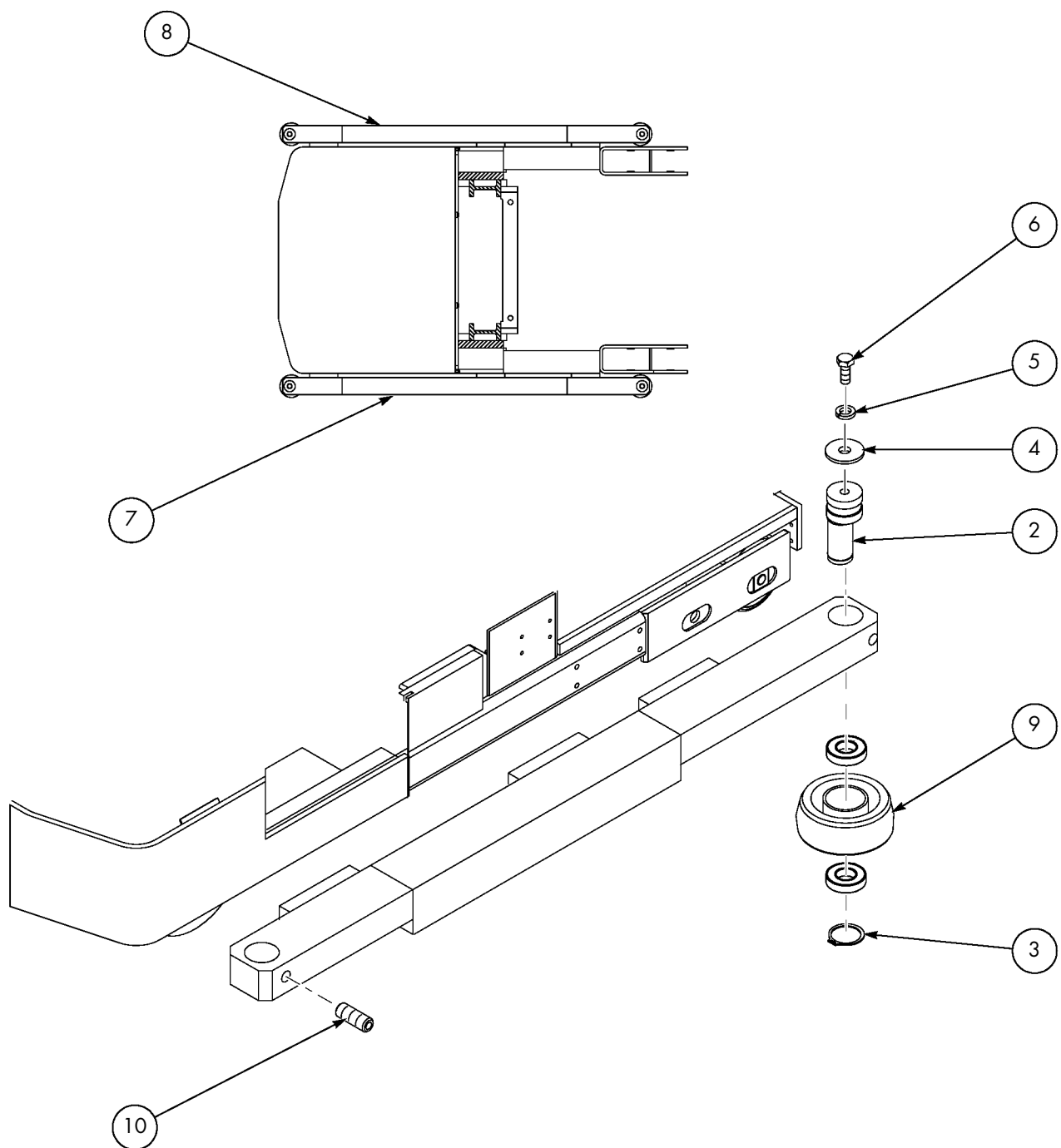
Figure 2-8: Platform Extension Assembly (59 in. to 63 in.)

Platform Extension Assembly (59 in. to 63 in.)

FIGURE 2-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	00590-02757-71	Plate, Extension Mounting	A
	2	00590-02758-71	Plate, Extension Mounting	B
2	1	00590-02829-71	Plate, Extension Mounting, (Right-Hand)	A
	1	00590-02830-71	Plate, Extension Mounting, (Right-Hand)	B
3	1	00590-02902-71	Plate, Extension Mounting, (Left-Hand)	A
	1	00590-02903-71	Plate, Extension Mounting, (Left-Hand)	B
4	2	00590-02965-71	Weldment, Platform, Extension	A
	2	00590-02966-71	Weldment, Platform, Extension	B
5	14	00590-03018-71	Screw	
6	14	00590-03074-71	Screw	
A= Platform Width - 59 inches B= Platform Width - 63 inches				

List 2-8: Platform Extension Assembly (59 in. to 63 in.)

Guide Roller Assembly Weldment (71.75 in. Roller Width)



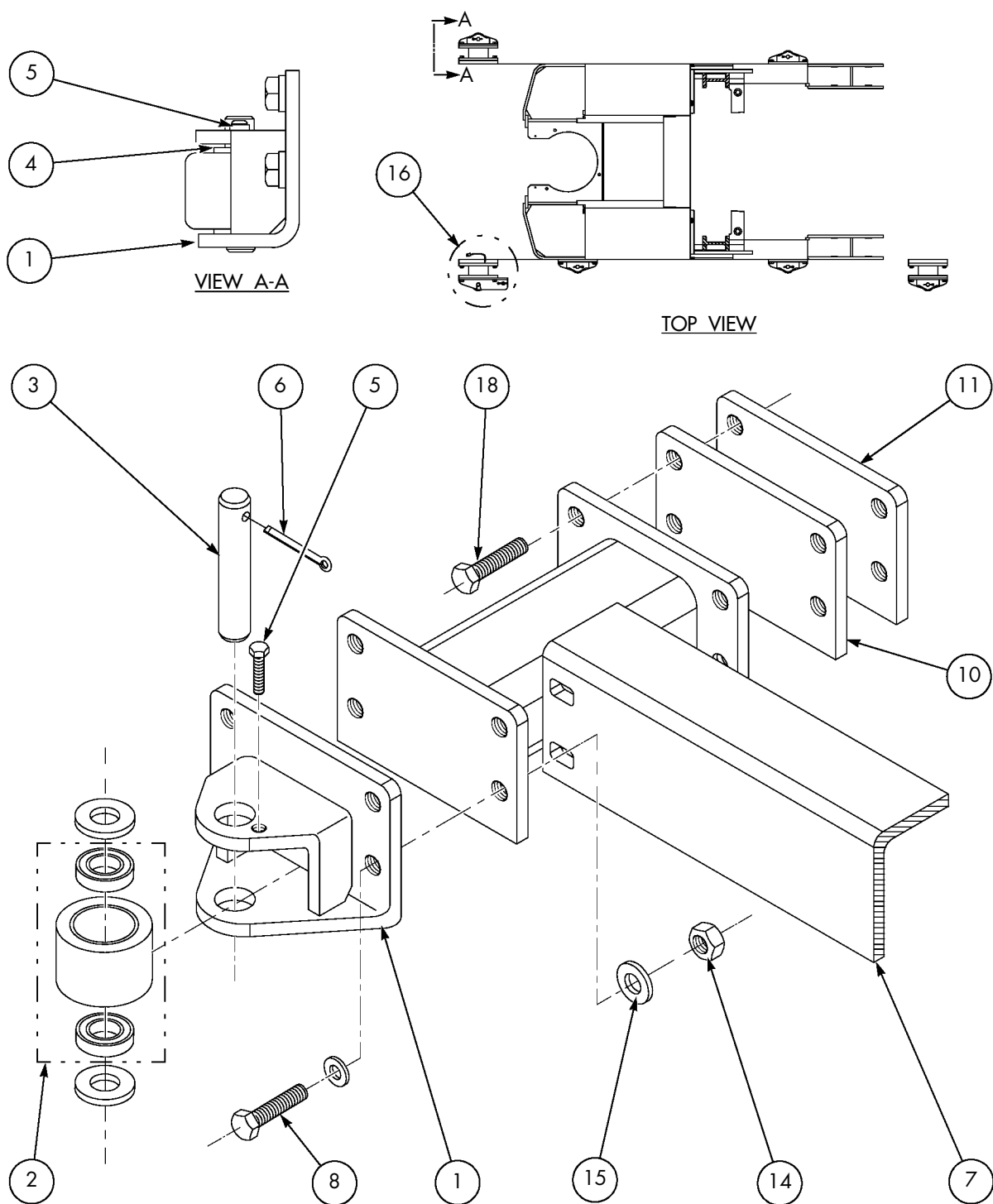
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Figure 2-9: Guide Roller Assembly Weldment (71.75 in. Roller Width)

Guide Roller Assembly Weldment (71.75 in. Roller Width)

FIGURE 2-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	4	00590-02832-71	Shaft, Eccentric	
3	4	00590-02905-71	Ring, Snap	
4	4	00590-02968-71	Washer	
5	4	00590-00246-71	Washer, Lock	
6	4	00590-03075-71	Screw	
7	1	00590-03119-71	Weldment, Bar, Left-Hand	A
	1	00590-03120-71	Weldment, Bar, Left-Hand	B
8	1	00590-03165-71	Weldment, Bar, Right-Hand	A
	1	00590-03166-71	Weldment, Bar, Right-Hand	B
9	4	00590-03209-71	Assembly, Wheel, Guide (includes:)	
	1	00590-02761-71	Wheel, Poly	R
	2	00590-02833-71	Bearing, Ball	R
10	4	00590-02760-71	Screw	
A= Single Load Wheel B= Dual Load Wheel R= Recommended Spare				

List 2-9: Guide Roller Assembly Weldment (71.75 in. Roller Width)



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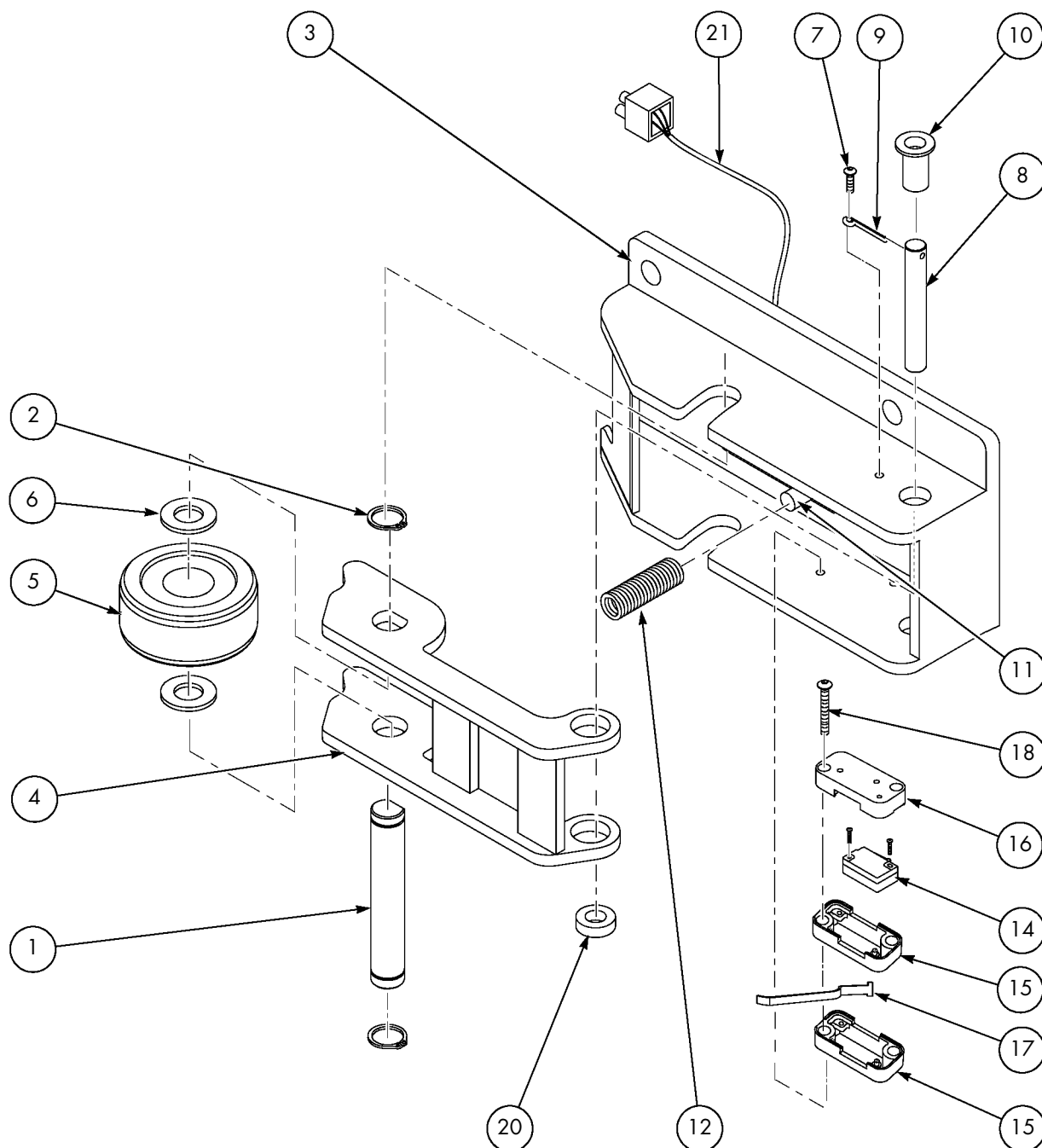
Figure 2-10: Guide Roller Installation (45.25 in. to 47 in. Guide Roller Width)

Guide Roller Installation (45.25 in. to 47 in. Guide Roller Width)

FIGURE 2-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	00590-41844-71	Weldment, Bracket	
2	3	00590-02834-71	Wheel Assembly (includes:)	
	1	00590-02763-71	Wheel	R
	2	00590-02835-71	Bearing, Ball	R
3	4	00590-41845-71	Shaft, Pivot	
4	8	00590-02969-71	Washer, Flat	
5	4	00590-02706-71	Screw	
6	4	00590-03076-71	Pin, Cotter	
7	2	00590-03121-71	Angle, Support Roller	
8	16	00590-03167-71	Screw 20MM	
	16	00590-39687-71	Screw 30MM	
	16	00590-39688-71	Screw 40MM	
	16	00590-03168-71	Screw 50MM	
10	4	00590-03379-71	Spacer, Roller Weldment, 4 in.	
	4	00590-39689-71	Spacer, Roller Weldment, 6 in.	
11	4	00590-03580-71	Plate, Wheel, 0.12 in.	
	4	00590-39690-71	Plate, Wheel, 0.23 in.	
	4	00590-39691-71	Plate, Wheel, 0.38 in.	
	4	00590-03581-71	Plate, Wheel, 0.75 in.	
	4	00590-03589-71	Plate, Wheel, 1.00 in.	
	4	00590-03378-71	Plate Wheel, 0.59 in.	
14	16	00590-03592-71	Nut	
15	16	00590-02813-71	Washer, Flat	
16	1	00590-41846-71	Wheel Assembly, Switched (See Figure 2-11.)	
18	8	00590-03607-71	Screw	
R= Recommended Spare				

List 2-10: Guide Roller Installation (45.25 in. to 47 in. Guide Roller Width)

Wheel Assembly, Switched



O114019-712-A-TOYOTA

Figure 2-11: Wheel Assembly, Switched

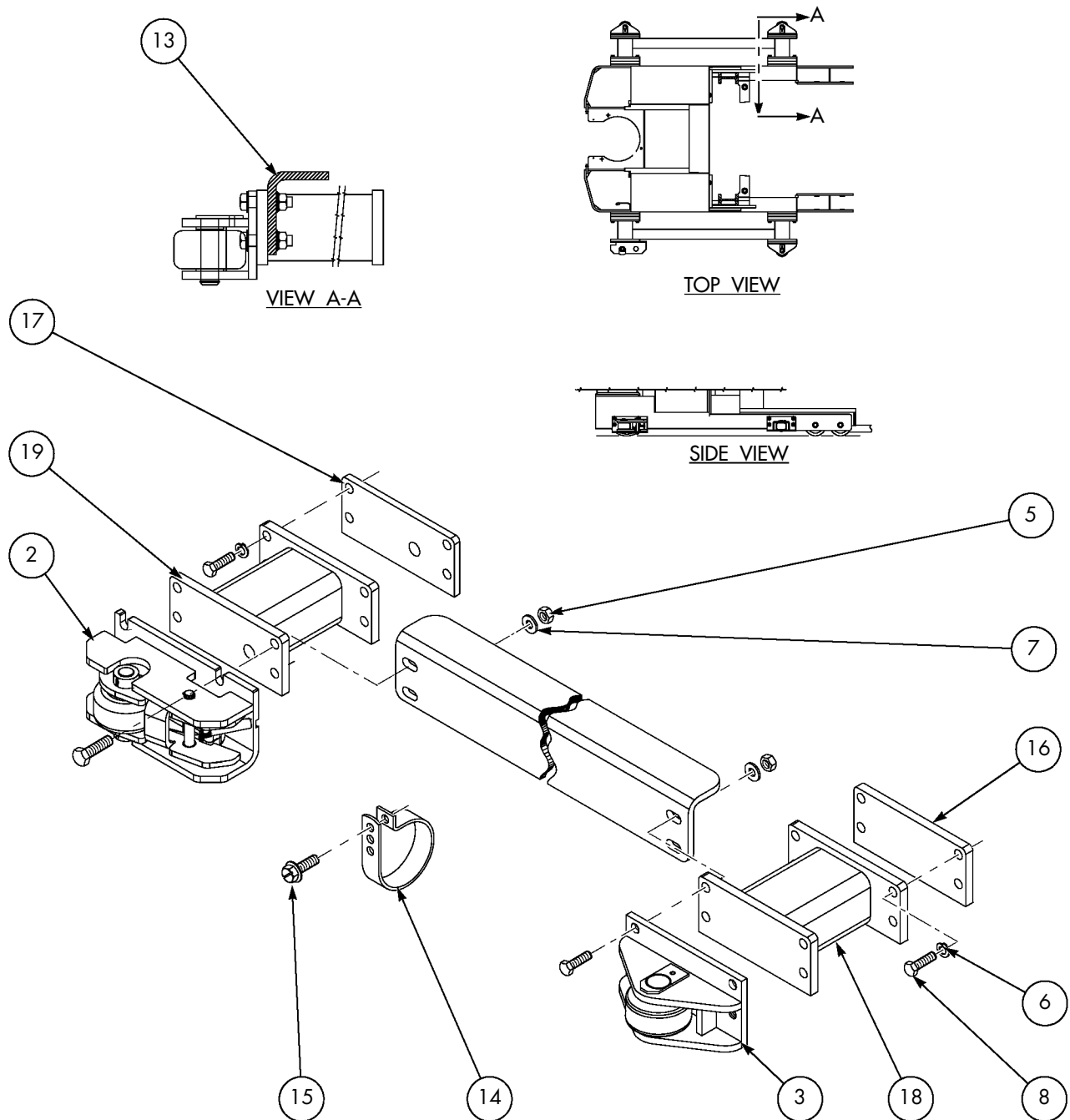
Wheel Assembly, Switched

FIGURE 2-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-39694-71	Axle, Wheel	
2	2	00590-39695-71	Ring, Snap	
3	1	00590-41843-71	Weldment, Roller Pivot	
4	1	00590-39697-71	Weldment, Plate	
5	4	00590-02834-71	Wheel Assembly (includes:)	
	1	00590-02763-71	Wheel	R
	2	00590-02835-71	Bearing, Ball	R
6	8	00590-02969-71	Washer, Flat	
7	1	00590-02706-71	Screw	
8	1	00590-41842-71	Shaft, Pivot	
9	1	00590-03076-71	Pin, Cotter	
10	2	00590-39699-71	Bearing	R
11	1	00590-39700-71	Pin, Dowel	
12	1	00590-03565-71	Spring	R
14	1	00590-02995-71	Switch	R
15	2	00590-02794-71	Housing Inner	
16	1	00590-02871-71	Housing Outer	
17	1	00590-02931-71	Lever	
18	2	00590-03100-71	Screw	
20	1	00590-39701-71	Bearing	R
21	1	00590-39702-71	Cable	
R= Recommended Spare				

List 2-11: Wheel Assembly, Switched

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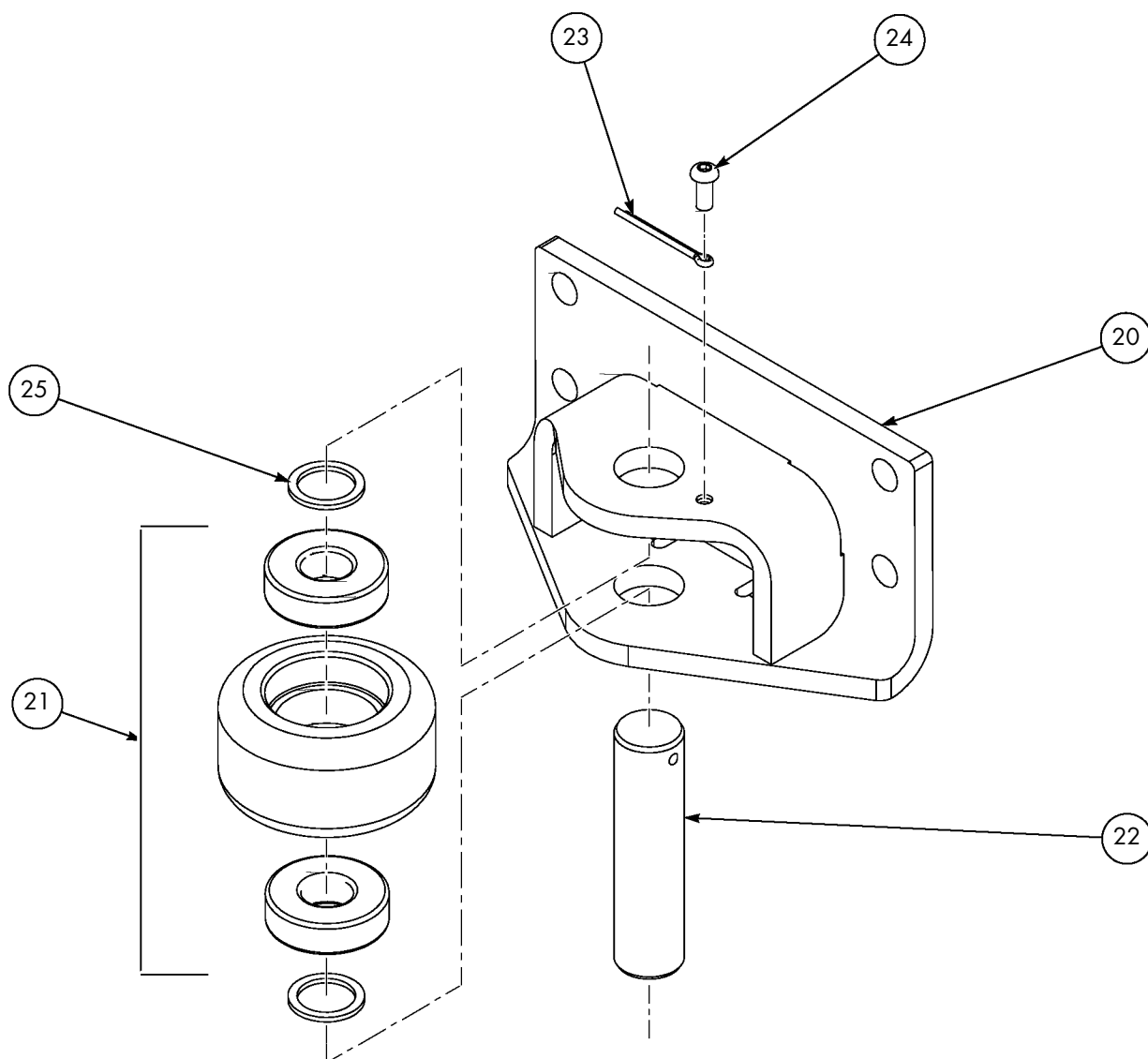
Guide Roller Installation (47.50 in. to 67 in. Guide Roller Width)



O114-008-478 SHT 1 OF 2

Figure 2-12a: Guide Roller Installation (47.50 in. to 67 in. Guide Roller Width)

Guide Roller Installation (47.50 in. to 67 in. Guide Roller Width)



O114-008-478-2 SHT 2 OF 2

Figure 2-12b: Guide Roller Installation (47.50 in. to 67 in. Guide Roller Width)

Guide Roller Installation (47.50 in. to 67 in. Guide Roller Width)

FIGURE 2-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	1	00590-40744-71	Switch Assembly, Roller (See Figure 2-13.)	
3	AR	00590-41794-71	Guide Roller Assembly (includes: Items 20 thru 25)	
5	16	00590-03592-71	Nut	
6	16	00590-39705-71	Washer, Lock	
7	16	00590-02813-71	Washer, Flat	
8	16	00590-39687-71	Screw M12 x 30	
	16	00590-39688-71	Screw M12 x 40	
	16	00590-03168-71	Screw M12 x 50	
	16	00590-03607-71	Screw M12 x 70	
	16	00590-39706-71	Screw M12 x 90	
13	2	00590-03121-71	Support, Angle	
14	1	00590-39707-71	Clamp	
15	1	00590-39708-71	Screw	
16	AR	00590-03580-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 0.12 in.)	
	AR	00590-39690-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 0.25 in.)	
	AR	00590-39691-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 0.38 in.)	
	AR	00590-39710-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 0.50 in.)	
	AR	00590-39711-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 0.63 in.)	
	AR	00590-03581-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 0.75 in.)	
	AR	00590-39712-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 0.88 in.)	
	AR	00590-03589-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 1.00 in.)	
	AR	00590-03378-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 0.06 in.)	
17	AR	00590-39713-71	Plate, Wheel, 5 Holes (7.75 in. x 3.38 in. x 0.12 in.)	
	AR	00590-39714-71	Plate, Wheel, 5 Holes (7.75 in. x 3.38 in. x 0.25 in.)	
	AR	00590-39715-71	Plate, Wheel, 5 Holes (7.75 in. x 3.38 in. x 0.38 in.)	
	AR	00590-39716-71	Plate, Wheel, 5 Holes (7.75 in. x 3.38 in. x 0.50 in.)	
	AR	00590-39717-71	Plate, Wheel, 5 Holes (7.75 in. x 3.38 in. x 0.63 in.)	
	AR	00590-39718-71	Plate, Wheel, 5 Holes (7.75 in. x 3.38 in. x 0.75 in.)	
	AR	00590-39718-71	Plate, Wheel, 5 Holes (7.75 in. x 3.38 in. x 0.88 in.)	
	AR	00590-39720-71	Plate, Wheel, 5 Holes (7.75 in. x 3.38 in. x 1.00 in.)	
	AR	00590-39721-71	Plate, Wheel, 5 Holes (7.75 in. x 3.38 in. x 0.06 in.)	
18	AR	00590-39722-71	Spacer, Roller, 4 Holes, 3 in.	
	AR	00590-03379-71	Spacer, Roller, 4 Holes, 4 in.	
	AR	00590-39723-71	Spacer, Roller, 4 Holes, 5 in.	
	AR	00590-39689-71	Spacer, Roller, 4 Holes, 6 in.	
	AR	00590-39724-71	Spacer, Roller, 4 Holes, 7 in.	
	AR	00590-03380-71	Spacer, Roller, 4 Holes, 8 in.	
	AR	00590-39725-71	Spacer, Roller, 4 Holes, 9 in.	
19	1	00590-39726-71	Spacer, Roller, 5 Holes, 3 in.	
	1	00590-39727-71	Spacer, Roller, 5 Holes, 4 in.	
	1	00590-39728-71	Spacer, Roller, 5 Holes, 5 in.	
	1	00590-39729-71	Spacer, Roller, 5 Holes, 6 in.	
	1	00590-39730-71	Spacer, Roller, 5 Holes, 7 in.	
	1	00590-39731-71	Spacer, Roller, 5 Holes, 8 in.	
R= Recommended Spare				

List 2-12: Guide Roller Installation (47.50 in. to 67 in. Guide Roller Width) (Sheet 1 of 2)

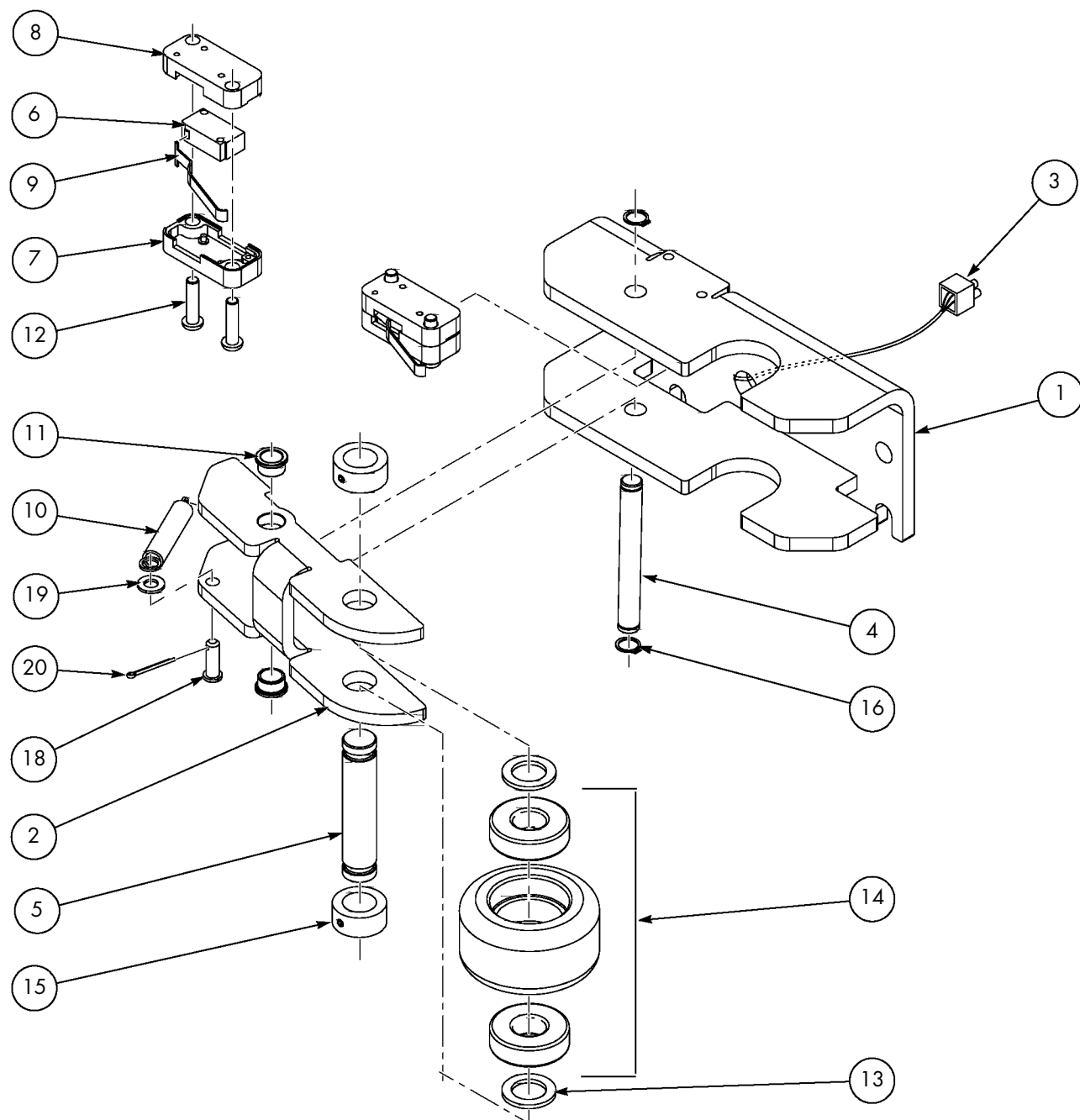
Guide Roller Installation (47.50 in. to 67 in. Guide Roller Width)

FIGURE 2-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-39732-71	Spacer, Roller, 5 Holes, 9 in.	
20	1	00590-41795-71	Weldment, Roller	
21	1	00590-39734-71	Wheel Assembly (includes:)	
	1	00590-40594-71	Wheel Alteration	R
	1	00590-39736-71	Bearing	R
22	1	00590-41796-71	Axle, Wheel	
23	1	00590-03076-71	Pin, Cotter	
24	1	00590-02706-71	Screw	
25	3	00590-01319-71	Washer, Flat	
R= Recommended Spare				

List 2-12: Guide Roller Installation (47.50 in. to 67 in. Guide Roller Width) (Sheet 2 of 2)

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Roller Switch Assembly (2.25 in. x 3.12 in. Wheel)



O114-009-789-A

Figure 2-13: Roller Switch Assembly (2.25 in. x 3.12 in. Wheel)

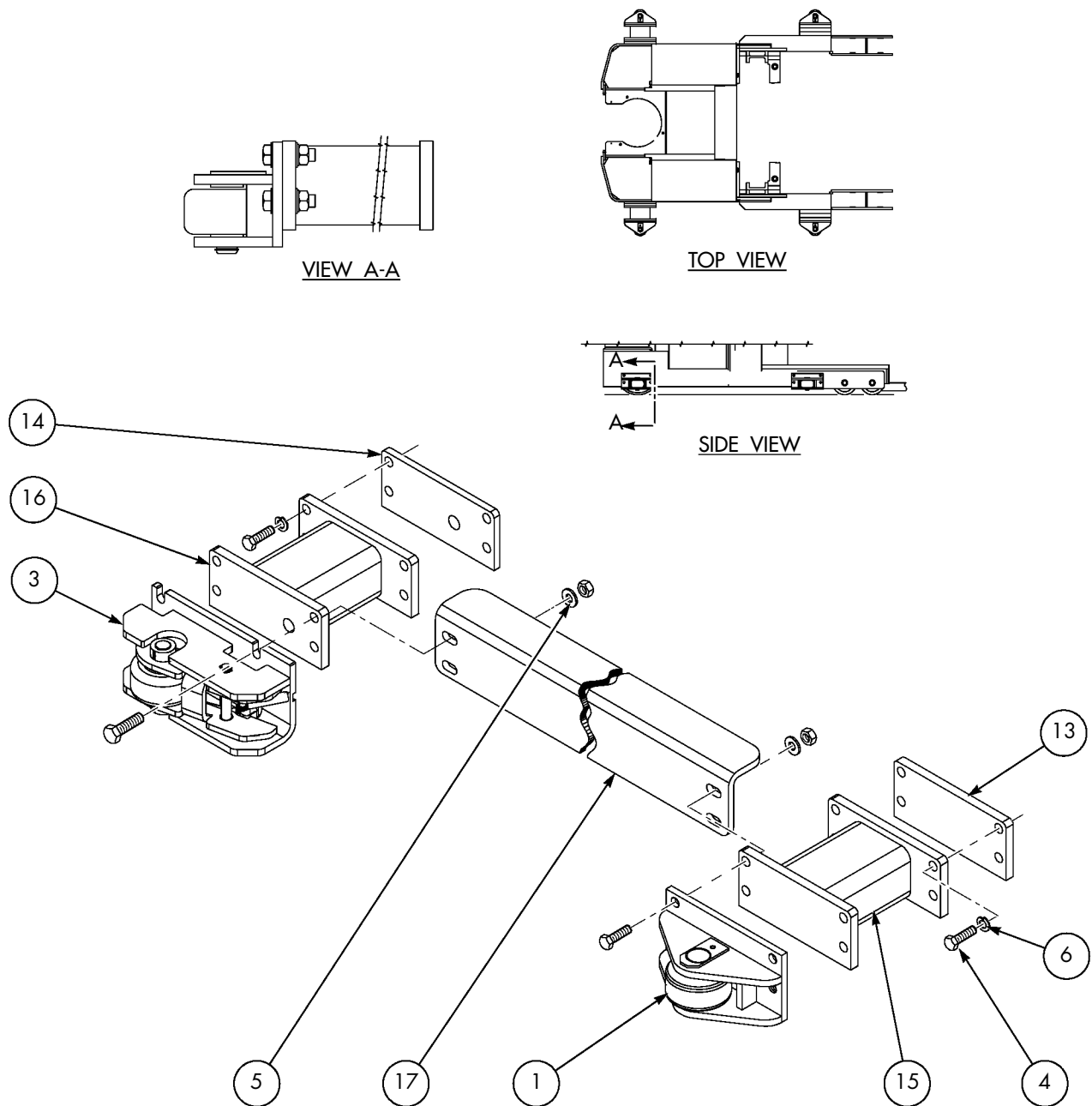
Roller Switch Assembly (2.25 in. x 3.12 in. Wheel)

FIGURE 2-13 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-40745-71	Weldment, Bracket	
2	1	00590-40746-71	Weldment, Roller	
3	1	00590-39742-71	Cable Assembly, Auto Steer	
4	1	00590-40747-71	Weldment, Pin	
5	1	00590-40748-71	Pin	
6	1	00590-02995-71	Switch	R
7	2	00590-02794-71	Housing, Inner	
8	1	00590-02871-71	Housing, Outer	
9	1	00590-02931-71	Lever	
10	1	00590-40750-71	Spring	
11	2	00590-00920-71	Bearing, Sleeve	
12	2	00590-03100-71	Screw	
13	2	00590-01319-71	Washer	
14	1	00590-39734-71	Wheel Assembly (includes:)	
	1	00590-40594-71	Wheel Alteration	R
	1	00590-39736-71	Bearing	R
15	2	00590-40749-71	Shaft, Collar	
16	2	00590-03606-71	Ring, Snap	
18	1	00590-03130-71	Pin, Yoke	
19	1	00590-02940-71	Washer, Flat	
20	1	00590-01576-71	Pin, Cotter	
R= Recommended Spare				

List 2-13: Roller Switch Assembly (2.25 in. x 3.12 in. Wheel)

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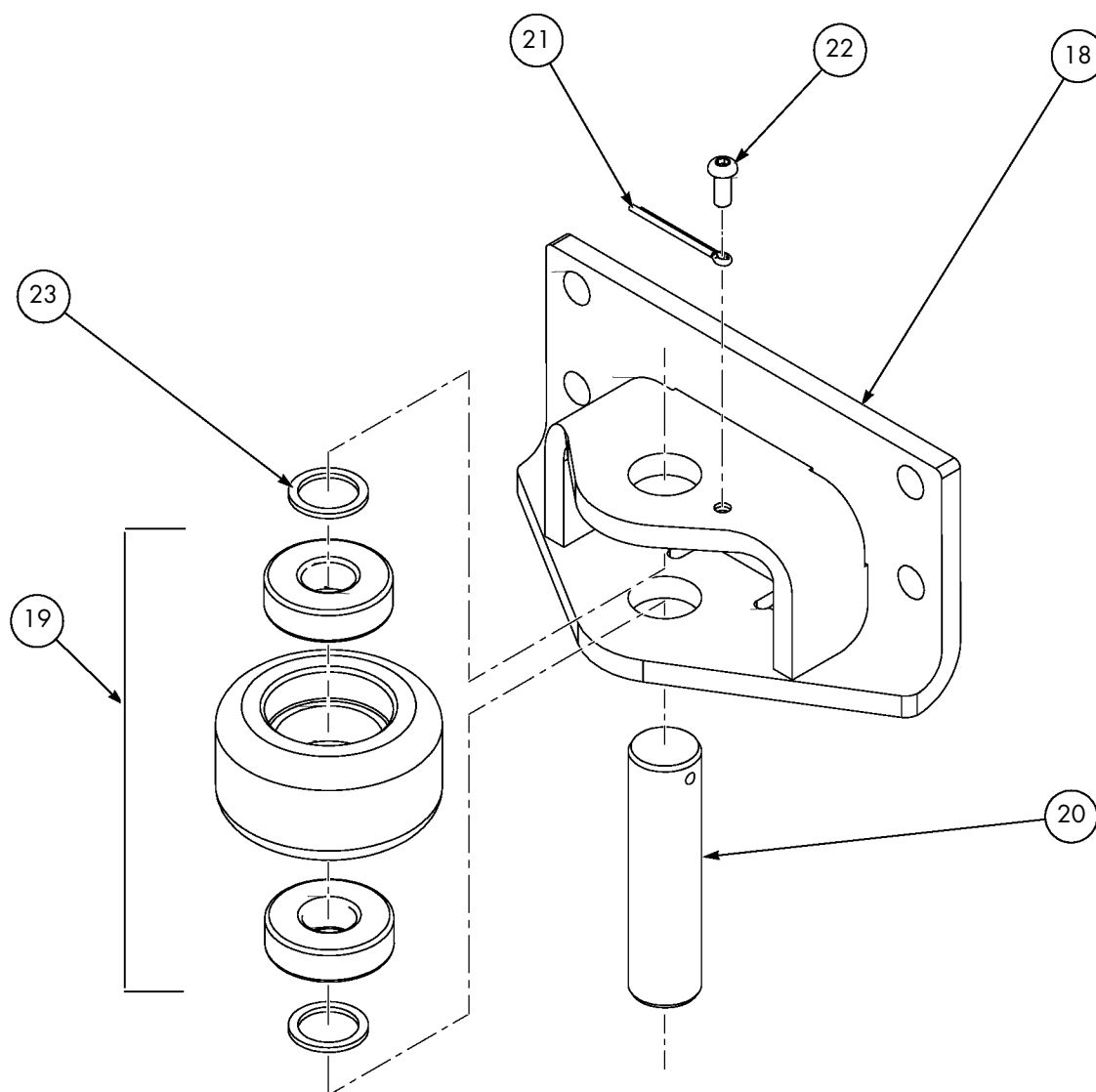
Guide Roller Installation (52 in. to 67 in. Width, With 44 in. BLO)



O114-008-437-P SHT 1 OF 2

Figure 2-14a: Guide Roller Installation (52 in. to 67 in. Width, With 44 in. BLO)

Guide Roller Installation (52 in. to 67 in. Width, With 44 in. BLO)



O114-008-437-P2 SHT 2 OF 2

Figure 2-14b: Guide Roller Installation (52 in. to 67 in. Width, With 44 in. BLO)

Guide Roller Installation (52 in. to 67 in. Width, With 44 in. BLO)

FIGURE 2-14 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	00590-41794-71	Guide Roller Assembly (includes Items 18 thru 23)	
3	AR	00590-40744-71	Assembly, Switch Roller(See Figure 2-13.)	
4	AR	00590-39687-71	Screw M12 X 30	
	AR	00590-39688-71	Screw M12 X 40	
	AR	00590-03168-71	Screw M12 X 50	
	AR	00590-03607-71	Screw M12 X 70	
	AR	00590-39706-71	Screw M12 x 90	
	AR	00590-41864-71	Screw M12 x 60	
5	AR	00590-02813-71	Washer, Flat	
6	AR	00590-39705-71	Washer	
13	AR	00590-03580-71	Plate, Wheel (7.75 in. x 3.38 in. x 0.12 in.)	
	AR	00590-39690-71	Plate, Wheel (7.75 in. x 3.38 in. x 0.23 in.)	
	AR	00590-39691-71	Plate, Wheel (7.75 in. x 3.38 in. x 0.38 in.)	
	AR	00590-39710-71	Plate, Wheel (7.75 in. x 3.38 in. x 0.50 in.)	
	AR	00590-03581-71	Plate, Wheel (7.75 in. x 3.38 in. x 0.75 in.)	
	AR	00590-03589-71	Plate, Wheel (7.75 in. x 3.38 in. x 1.00 in.)	
	AR	00590-03378-71	Plate, Wheel (7.75 in. x 3.38 in. x 0.06 in.)	
14	AR	00590-41831-71	Plate, Wheel (10.00 x 4.50 in. x 0.12 in.)	
	AR	00590-41832-71	Plate, Wheel (10.00 x 4.50 in. x 0.18 in.)	
	AR	00590-41833-71	Plate, Wheel (10.00 x 4.50 in. x 0.23 in.)	
	AR	00590-41834-71	Plate, Wheel (10.00 x 4.50 in. x 0.38 in.)	
	AR	00590-41835-71	Plate, Wheel (10.00 x 4.50 in. x 0.50 in.)	
	AR	00590-41836-71	Plate, Wheel (10.00 x 4.50 in. x 0.75 in.)	
	AR	00590-41837-71	Plate, Wheel (10.00 x 4.50 in. x 1.00 in.)	
	AR	00590-41838-71	Plate, Wheel (10.00 x 4.50 in. x 0.06 in.)	
15	AR	00590-39722-71	Roller, Spacer (7.75 in. x 3.38 in. x 3.00 in.)	
	AR	00590-03379-71	Roller, Spacer (7.75 in. x 3.38 in. x 4.00 in.)	
	AR	00590-39723-71	Roller, Spacer (7.75 in. x 3.38 in. x 5.00 in.)	
	AR	00590-39689-71	Roller, Spacer (7.75 in. x 3.38 in. x 6.00 in.)	
	AR	00590-39724-71	Roller, Spacer (7.75 in. x 3.38 in. x 7.00 in.)	
	AR	00590-03380-71	Roller, Spacer (7.75 in. x 3.38 in. x 8.00 in.)	
	AR	00590-39725-71	Roller, Spacer (7.75 in. x 3.38 in. x 9.00 in.)	
	AR	00590-41819-71	Roller, Spacer (7.75 in. x 3.38 in. x 10.00 in.)	
16	AR	00590-41823-71	Roller, Spacer (10.00 x 4.50 in. x 3.00 in.)	
	AR	00590-39727-71	Roller, Spacer (10.00 x 4.50 in. x 4.00 in.)	
	AR	00590-39728-71	Roller, Spacer (10.00 x 4.50 in. x 5.00 in.)	
	AR	00590-39729-71	Roller, Spacer (10.00 x 4.50 in. x 6.00 in.)	
	AR	00590-39730-71	Roller, Spacer (10.00 x 4.50 in. x 7.00 in.)	
	AR	00590-39731-71	Roller, Spacer (10.00 x 4.50 in. x 8.00 in.)	
	AR	00590-41829-71	Roller, Spacer (10.00 x 4.50 in. x 8.56 in.)	
	AR	00590-39732-71	Roller, Spacer (10.00 x 4.50 in. x 9.00 in.)	
	AR	00590-03592-71	Nut	
17	AR	00590-03121-71	Support, Angle	
18	1	00590-41795-71	Weldment, Roller	
R= Recommended Spare				

List 2-14: Guide Roller Installation (52 in. to 67 in. Width, With 44 in. BLO) (Sheet 1 of 2)

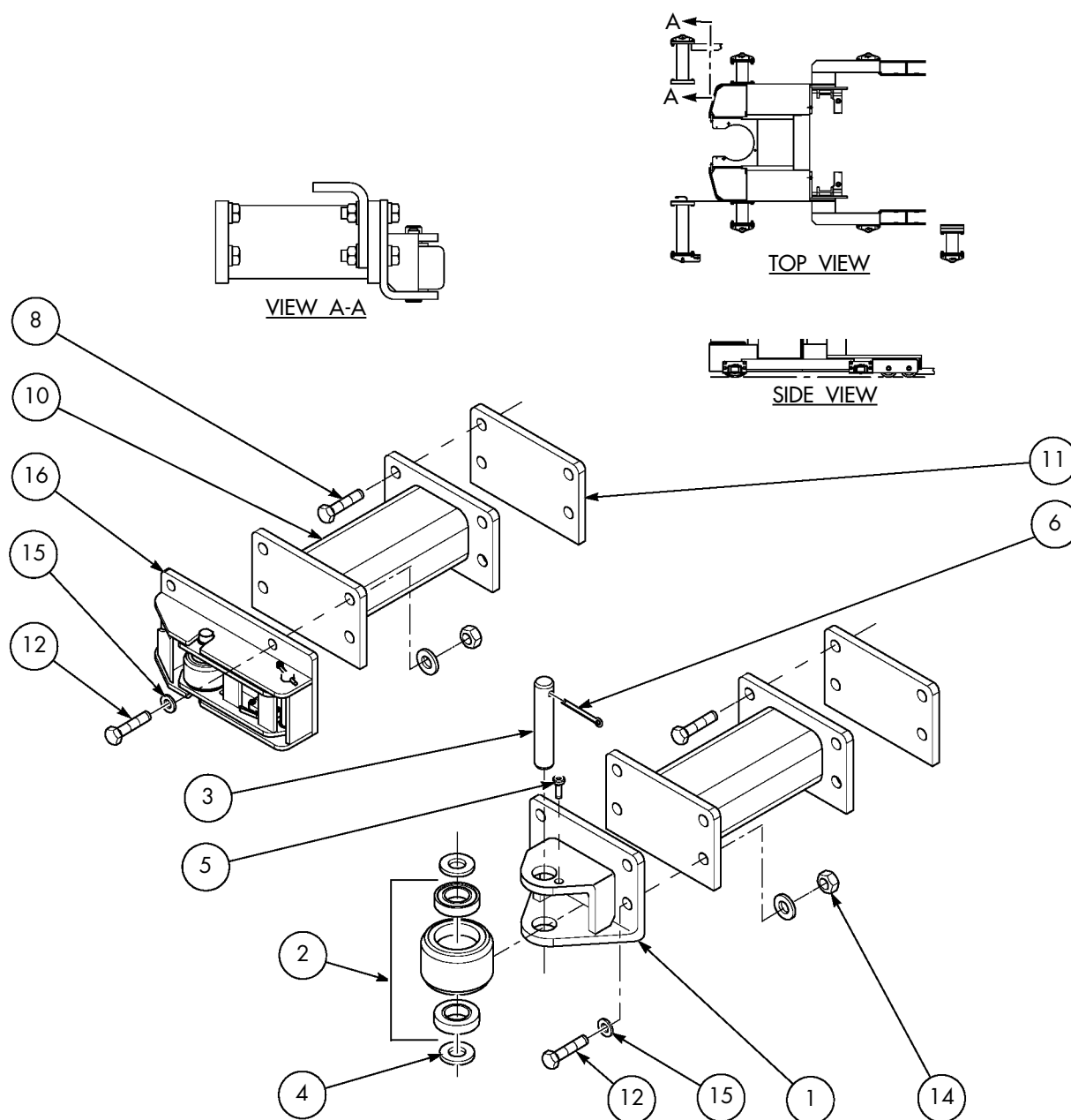
Guide Roller Installation (52 in. to 67 in. Width, With 44 in. BLO)

FIGURE 2-14 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
19	1	00590-39734-71	Wheel Assembly (includes:)	
	1	00590-40594-71	Wheel Alteration	R
	1	00590-39736-71	Bearing	R
20	1	00590-41796-71	Axle, Wheel	
21	1	00590-03076-71	Pin, Cotter	
22	1	00590-02706-71	Screw	
23	3	00590-01319-71	Washer, Flat	
R= Recommended Spare				

List 2-14: Guide Roller Installation (52 in. to 67 in. Width, With 44 in. BLO) (Sheet 2 of 2)

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Guide Roller Installation (Guide Roller Width 61.25 in. to 66.75 in. With 56 in. BLO)



O114019-419-G

Figure 2-15: Guide Roller Installation (Guide Roller Width 61.25 in. to 66.75 in. With 56 in. BLO)

Guide Roller Installation (Guide Roller Width 61.25 in. to 66.75 in. With 56 in. BLO)

FIGURE 2-15 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	00590-41844-71	Weldment, Bracket	
2	4	00590-02834-71	Wheel, Assembly (includes:)	
	1	00590-02763-71	Wheel	R
	2	00590-02835-71	Bearing, Ball	R
3	4	00590-41845-71	Shaft, Pivot	
4	8	00590-02969-71	Washer, Flat	
5	4	00590-02706-71	Screw	
6	4	00590-03076-71	Pin, Cotter	
8	16	00590-03167-71	Screw	
10	2	00590-03380-71	Roller, Spacer (7.75 in. x 3.38 in. x 8.00 in.)	
	2	00590-41820-71	Roller, Spacer (7.75 in. x 3.38 in. x 8.56 in.)	
	2	00590-41821-71	Roller, Spacer (7.75 in. x 3.38 in. x 9.56 in.)	
	2	00590-41822-71	Roller, Spacer (7.75 in. x 3.38 in. x 10.19 in.)	
	2	00590-39731-71	Roller, Spacer (10.00 in. x 4.50 in. x 8.00 in.)	
11	2	00590-03580-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 0.12 in.)	
	2	00590-39710-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 0.50 in.)	
	2	00590-03589-71	Plate, Wheel, 4 Holes (7.75 in. x 3.38 in. x 1.00 in.)	
12	8	00590-39687-71	Screw	
14	8	00590-03592-71	Nut	
15	8	00590-02813-71	Washer	
16	1	00590-41846-71	Wheel Assembly, Switched (See Figure 2-11.)	
R= Recommended Spare				

List 2-15: Guide Roller Installation (Guide Roller Width 61.25 in. to 66.75 in. With 56 in. BLO)

Fire Extinguisher Installation

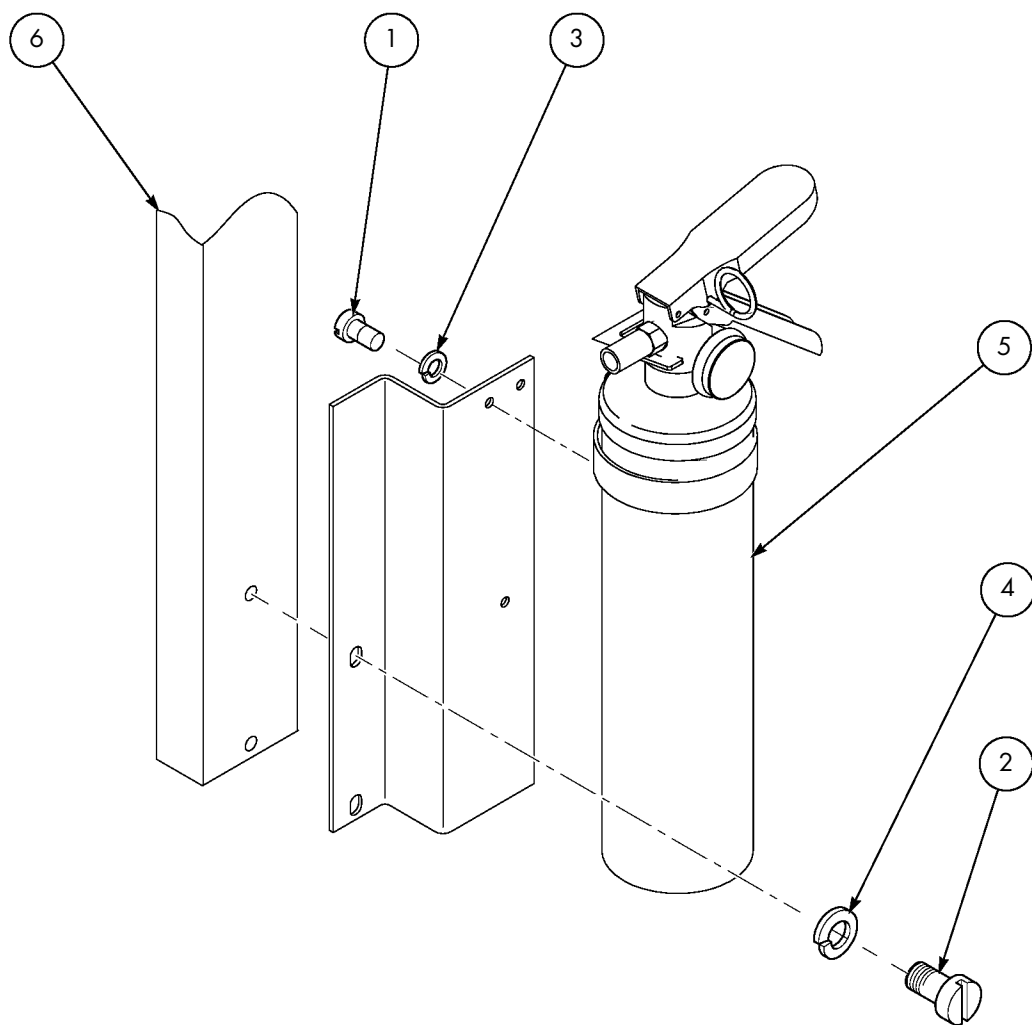


Figure 2-16: Fire Extinguisher Installation

O114010-375-A

FIGURE 2-16 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	3	00590-02764-71	Screw	
2	2	00590-00416-71	Screw	
3	3	00590-00113-71	Washer, Lock	
4	2	00590-00224-71	Washer, Lock	
5	1	00590-47515-71	Extinguisher	
6	1	00590-42303-71	Bracket, Fire Extinguisher	

List 2-16: Fire Extinguisher Installation

Mast Guards

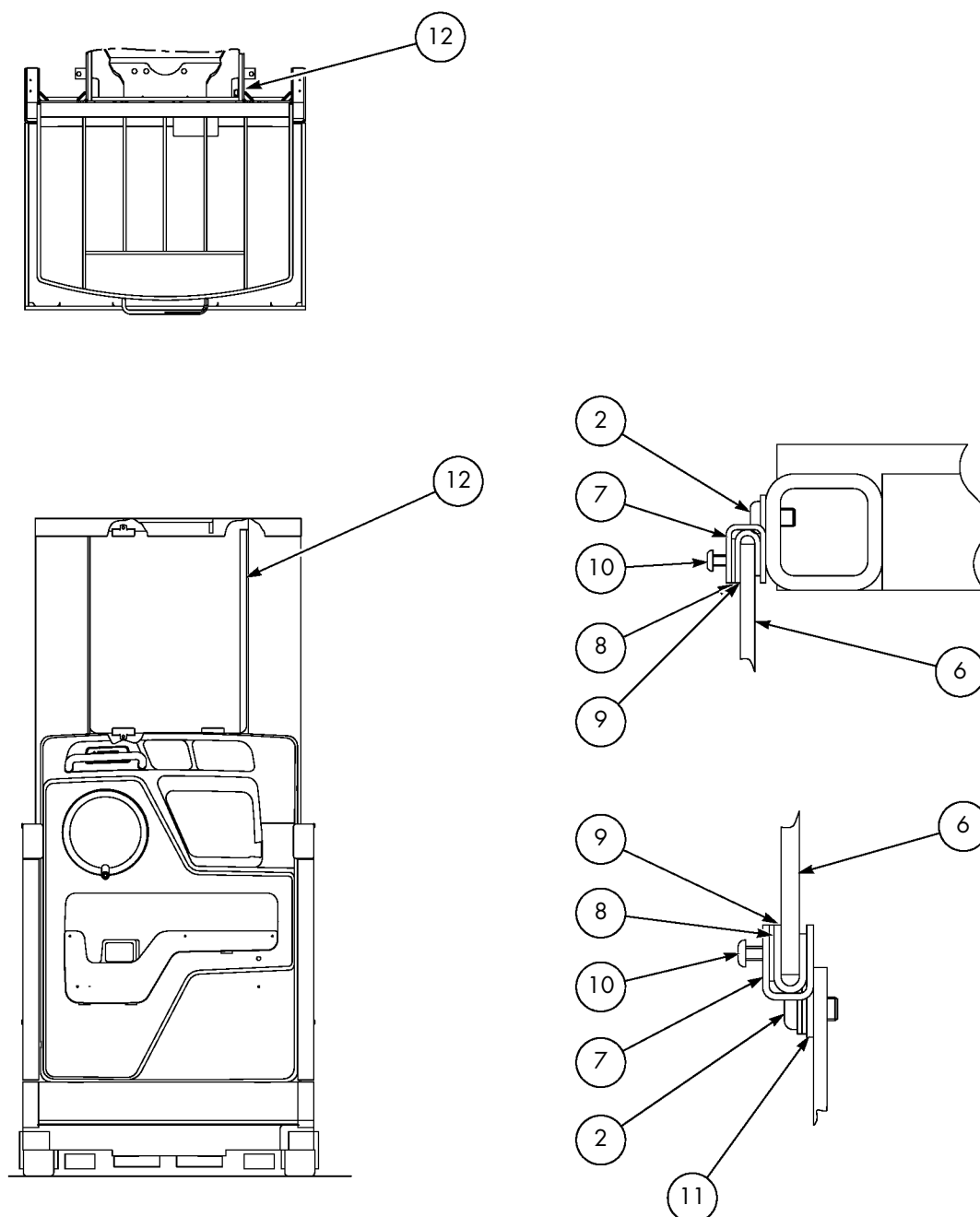
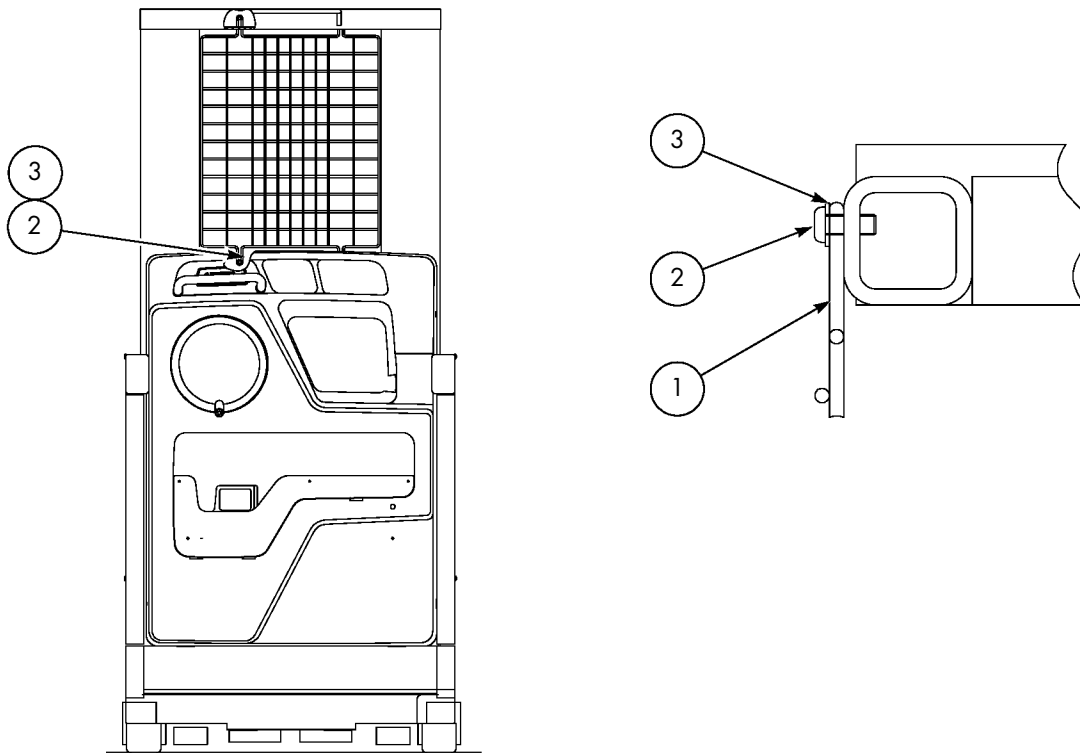


Figure 2-17a: Mast Guards

1011812_E1 SHT 1 OF 2

Mast Guards



1011812_E2 SHT 2 OF 2

Figure 2-17b: Mast Guards

FIGURE 2-17 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02972-71	Guard, Screen, Mast	B
2	4	00590-03021-71	Screw	
3	4	00590-03078-71	Washer, Lock	B
6	1	00590-47101-71	Guard, Glass, Mast	A
7	4	00590-45837-71	Bracket	A
8	4	00590-46063-71	Grip, Plate	A
9	1'	00590-46067-71	Tape	A
10	8	00590-03001-71	Screw	A
11	4	00590-02940-71	Washer, Flat	A
12	3'	00590-47102-71	Conduit	A
A= Glass B= Screen				

List 2-17: Mast Guards

Tether, Mechanical Installation

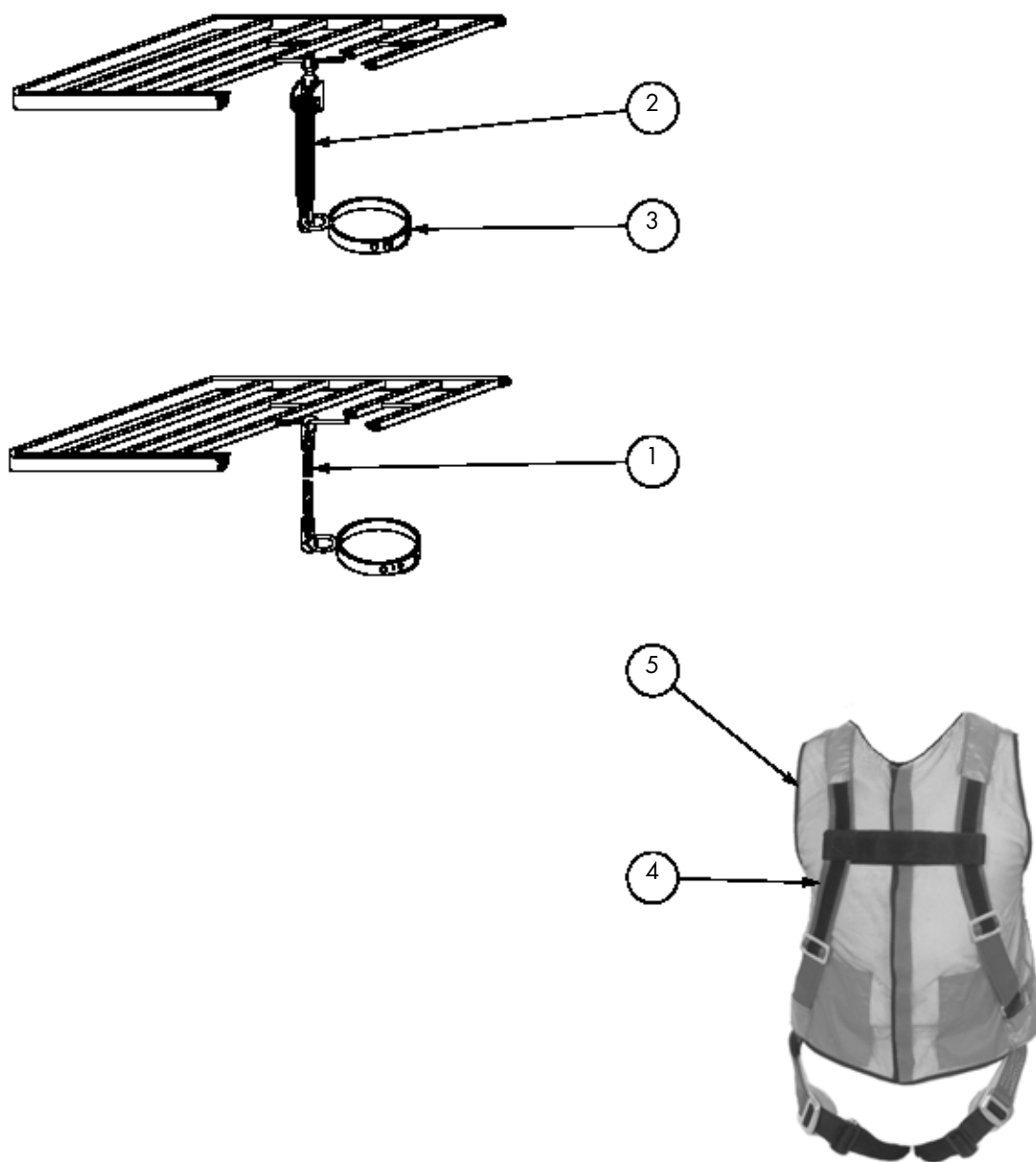


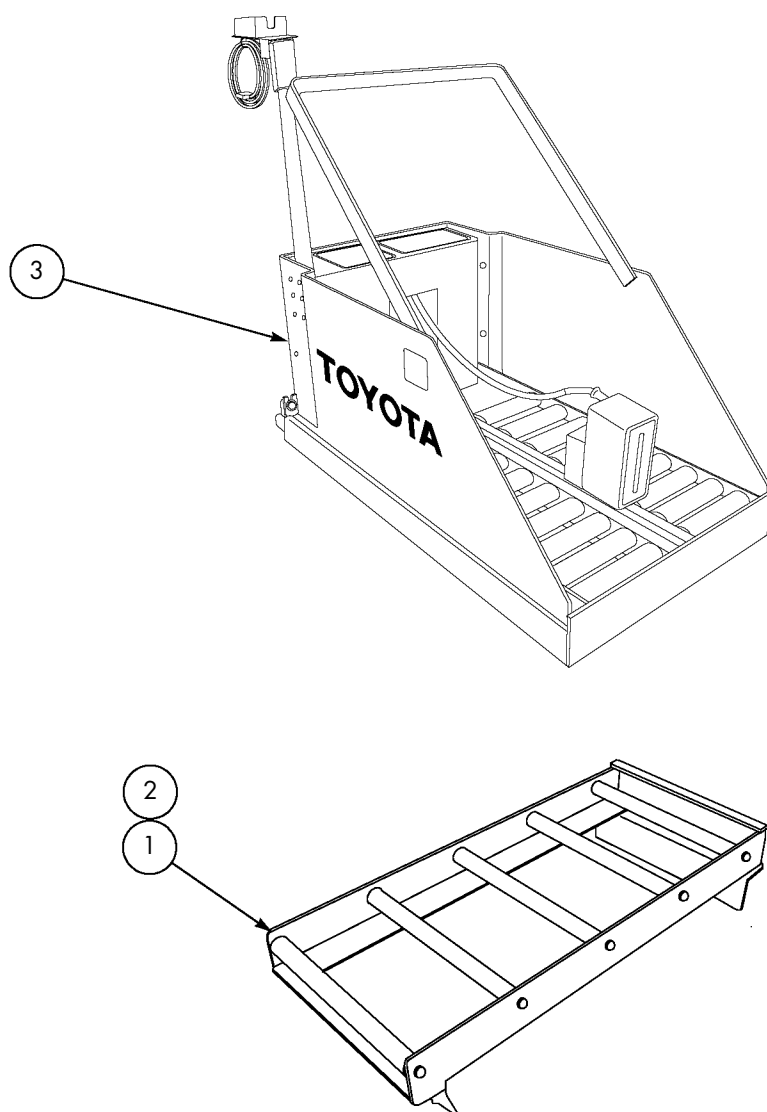
Figure 2-18: Tether, Mechanical Installation

O838-004-635-B

FIGURE 2-18 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02767-71	Tether, 6 ft.	
	1	00590-39747-71	Tether, 7 ft.	
	1	00590-39748-71	Tether, 8 ft.	
	1	00590-02767-71	Tether, Rope	
2	1	00590-46772-71	Tether, Retractable	
	1	00590-41888-71	Tether, Retractable, 10 ft.	
3	1	00590-05245-71	Belt (Small 30 in. to 38 in. Waist)	
	1	00590-05246-71	Belt (Med. 34 in. To 42 in. Waist)	
	1	00590-05247-71	Belt (Large 40 in. to 48 in. Waist)	
	1	00590-05248-71	Belt (Extra Large 48 in. to 56 in. Waist)	
4	1	00590-05249-71	Harness, Full Body, Small	A
	1	00590-39753-71	Harness, Full Body, Medium	A
	1	00590-39754-71	Harness, Full Body, Large	A
	1	00590-39755-71	Harness, Full Body, Extra Large	A
	1	00590-39756-71	Harness, Full Body, Small	B
	1	00590-39757-71	Harness, Full Body, Medium	B
	1	00590-39758-71	Harness, Full Body, Large	B
	1	00590-39759-71	Harness, Full Body, Extra Large	
5	1	00590-41889-71	Construction Tux, Small	
	1	00590-41890-71	Construction Tux, Medium	
	1	00590-41891-71	Construction Tux, Large	
	1	00590-41892-71	Construction Tux, Extra Large	
	1	00590-41893-71	Construction Tux, Extra, Extra Large	
A= Deluxe (Floating Shoulder Strap) B= Standard				

List 2-18: Tether, Mechanical Installation

Battery Accessories



TOYOTA BATTERY PULLER

Figure 2-19: Battery Accessories

FIGURE 2-19 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-03535-71	Battery Stand, Double, 18 in. x 42 in. x 5.5 - 7 in.	
2	1	00590-03534-71	Battery Stand, Single, 18 in. x 42 in. x 5.5 - 7 in.	
3	1	00590-47103-71	Battery Handling System, 24 Volt	
	1	00590-03537-71	Battery Handling System, 36 Volt	

List 2-19: Battery Accessories

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SECTION 3 Steering and Controls

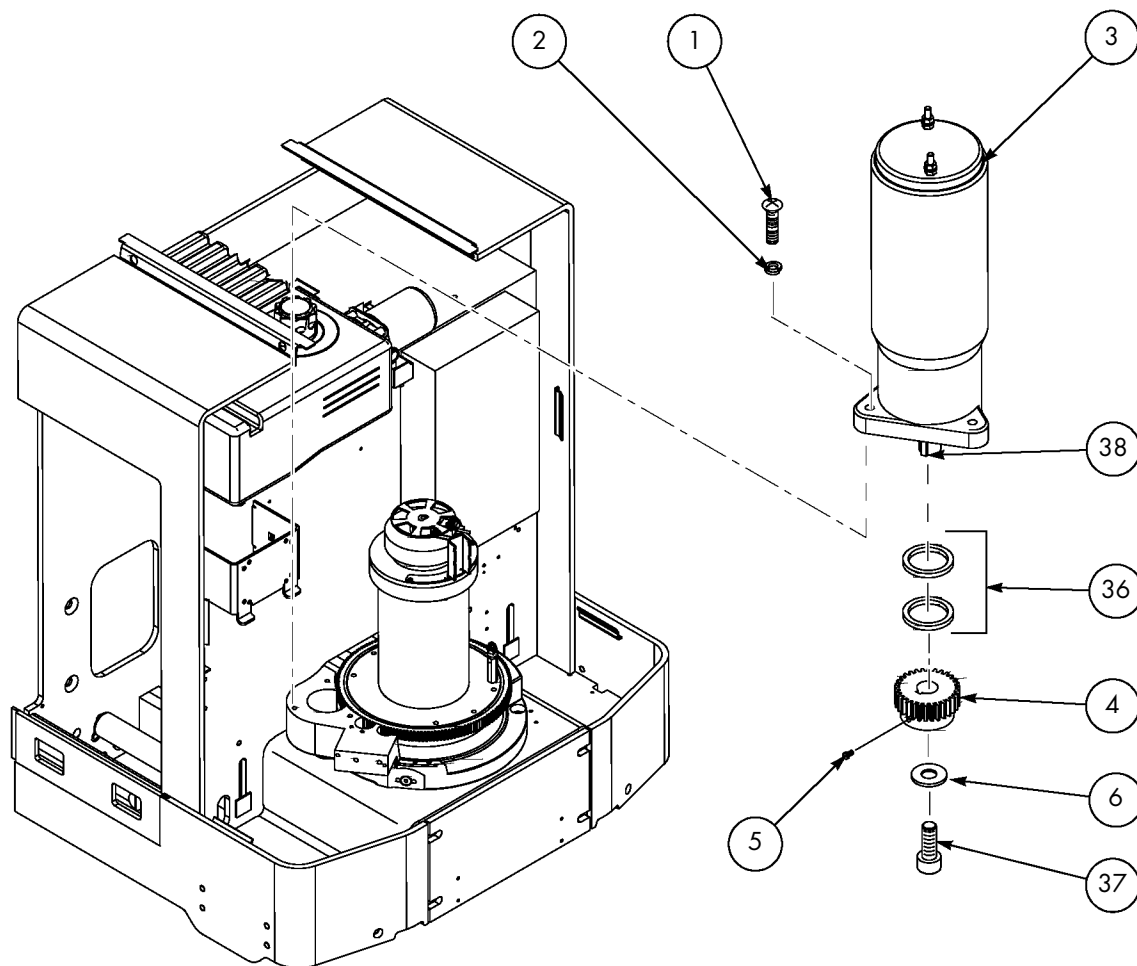
Steering and Control Components 3-3

Steering Wheel Assembly 3-8

Steer Motor and Gearbox Assembly 3-10

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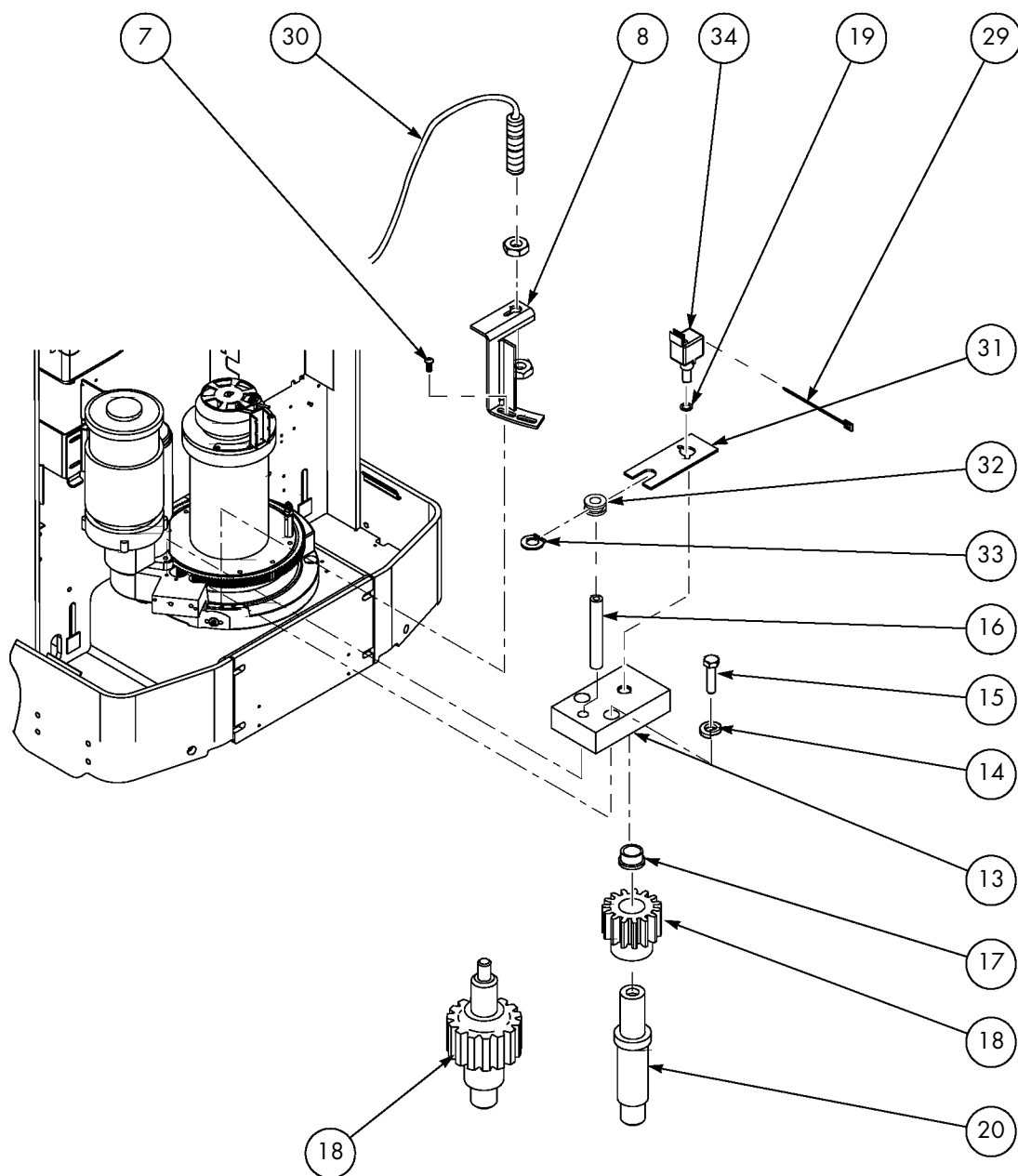
Steering and Control Components



O114-021-001-1 SHT 1 OF 4

Figure 3-1a: Steering and Control Components

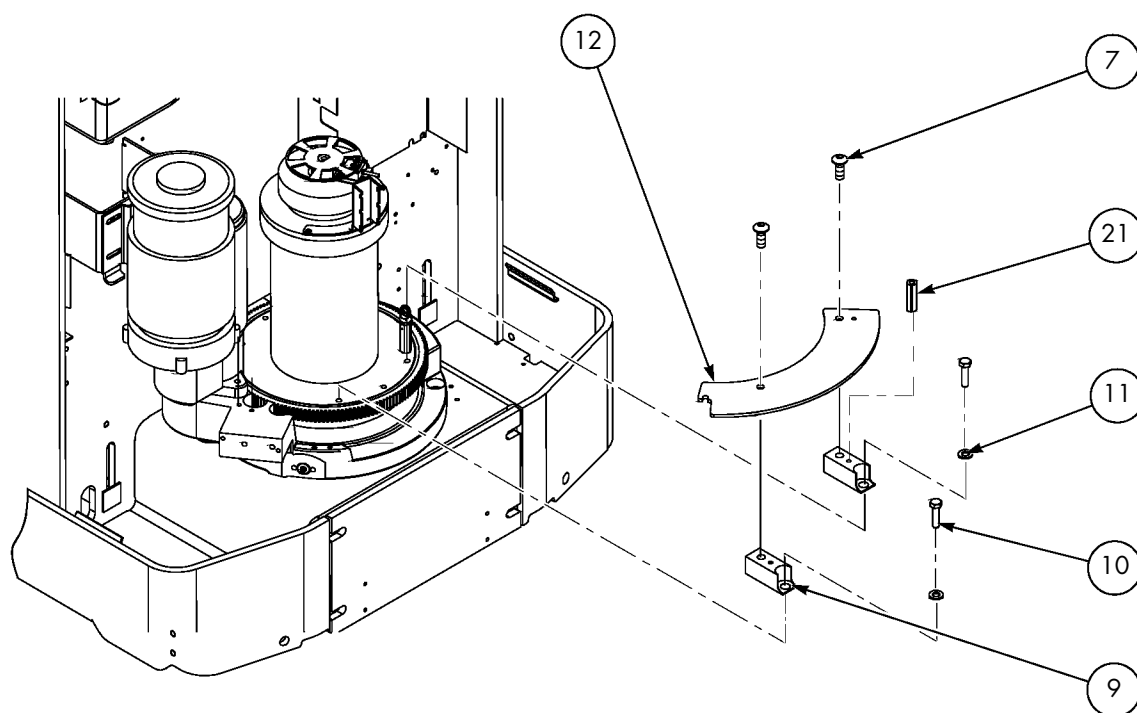
Steering and Control Components



O114-021-001-2 SHT 2 OF 4

Figure 3-1b: Steering and Control Components

Steering and Control Components



O114-021-001_C SHT 3 OF 4

Figure 3-1c: Steering and Control Components

Steering and Control Components

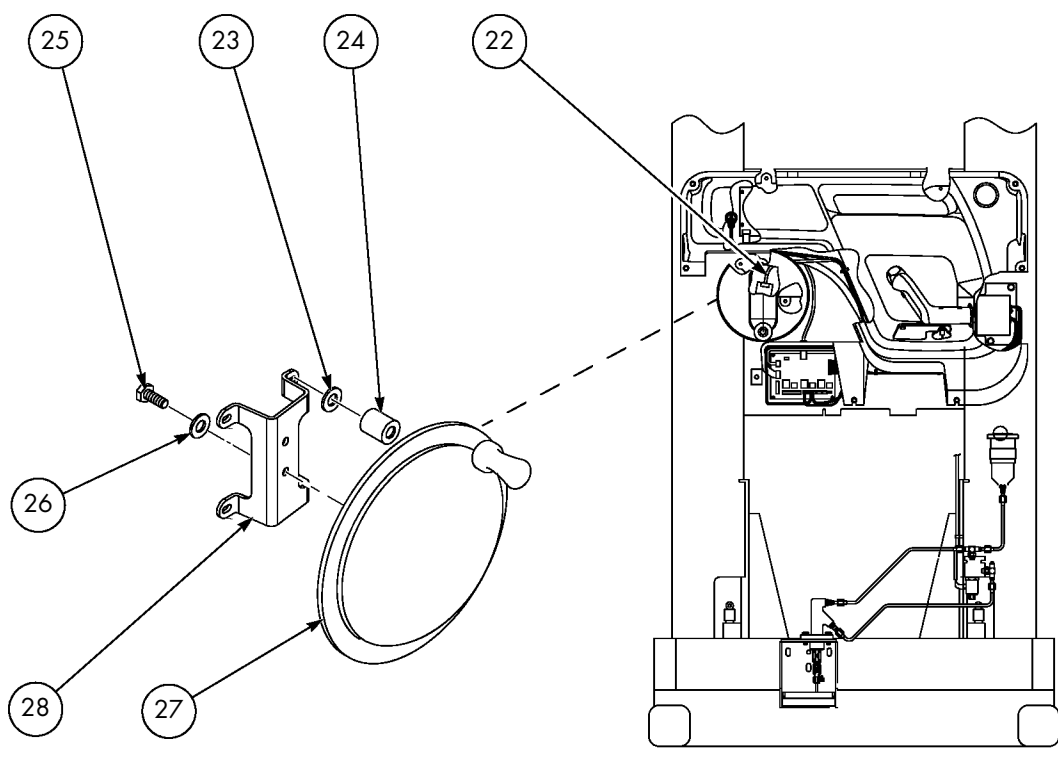


Figure 3-1d: Steering and Control Components

O114-021-001-3 SHT 4 OF 4

Steering and Control Components

FIGURE 3-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	3	00590-02770-71	Screw	
2	3	00590-02840-71	Washer, Lock	
3	1	00590-42225-71	Motor, Steer and Gearbox (See Figure 3-3.)	
4	1	00590-02975-71	Gear, Spur	
5	1	00590-03023-71	Screw	
6	1	00590-03208-71	Washer, Flat	
7	4	00590-03432-71	Screw	
8	1	00590-03266-71	Bracket, Sensor	
9	2	00590-49993-71	Standoff, Flag	
10	2	00590-03430-71	Screw	
11	2	00590-02940-71	Washer, Flat	
12	1	00590-03211-71	Sensor, Flag 90 Degrees	
13	1	00590-03170-71	Block, Bearing	
14	2	00590-02851-71	Washer, Lock	
15	2	00590-03022-71	Screw	
16	1	00590-02769-71	Shaft	
17	1	00590-00920-71	Bearing, Sleeve	R
18	1	00590-02839-71	Gear, Encoder	
	1	00590-43061-71	Gear, Encoder (S/N 71,046 and up)	
19	1	00590-02974-71	O-Ring	R
20	1	00590-03276-71	Shaft, Encoder	
21	1	00590-03176-71	Pin, Spring	
22	1	00590-39760-71	Cable, Steer Encoder	
23	4	00590-02940-71	Washer, Flat	
24	4	00590-03103-71	Spacer, Threaded	
25	2	00590-02908-71	Screw	
26	2	00590-02973-71	Washer, Flat	
27	1	00590-03169-71	Steering Wheel Assembly (See Figure 3-2.)	
28	1	00590-03210-71	Bracket, Steer	
29	1	00590-00556-71	Cable Tie	
30	1	00590-03287-71	Cable Assembly, Proximity	R
31	1	00590-03268-71	Bracket	
32	1	00590-02700-71	Grommet	
33	1	00590-03494-71	Ring, Snap, External	
34	1	00590-03299-71	Encoder Assembly	R
35	1	Ref.	Control Assembly, Steer, Toyota Tracker (Not Shown) (See Figure 5-5.)	
36	2	00590-03124-71	Shim	
37	1	00590-42244-71	Screw	
38	1	00590-43048-71	Keyway	
R= Recommended Spare				

List 3-1: Steering and Control Components

Steering Wheel Assembly

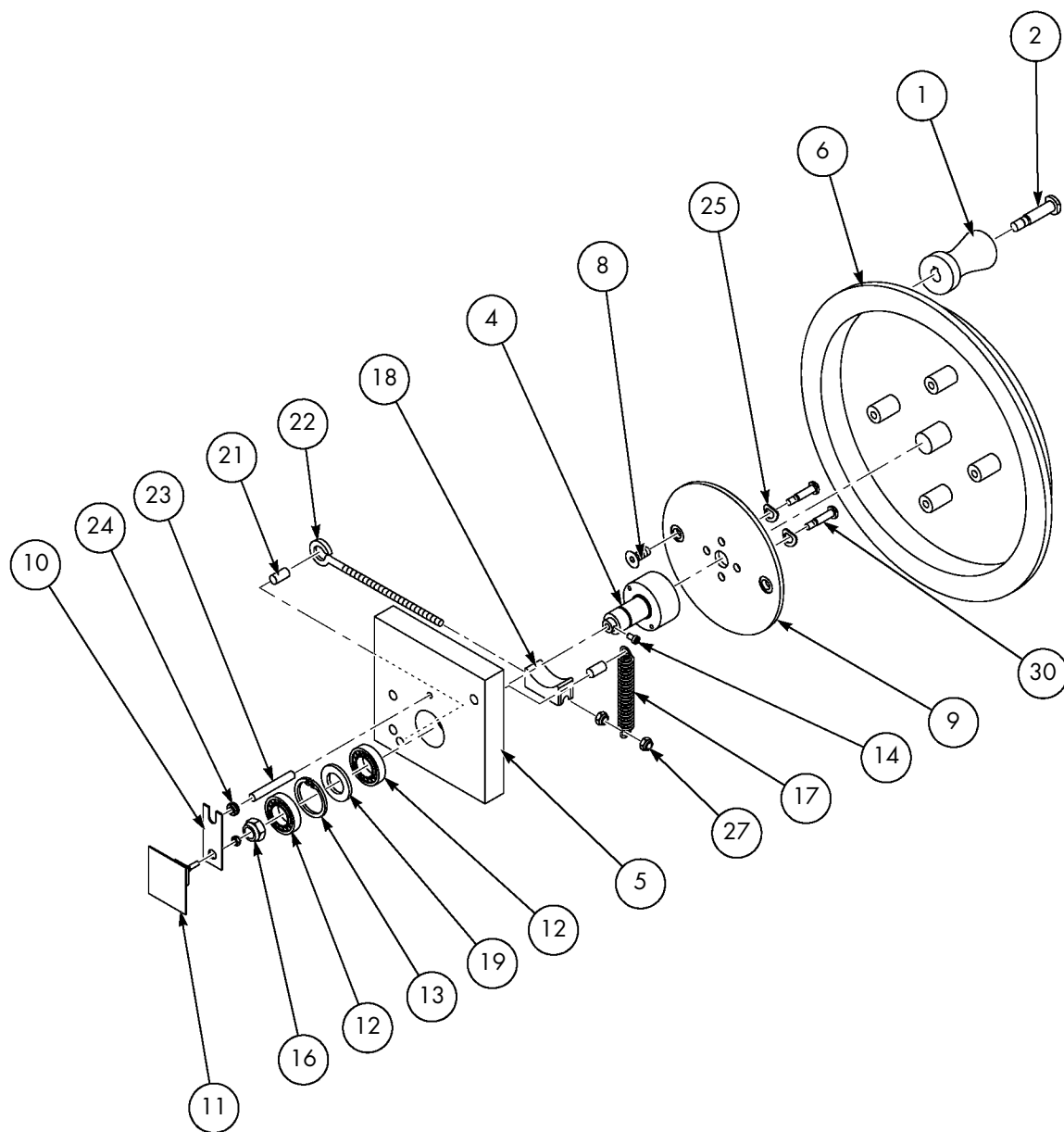


Figure 3-2: Steering Wheel Assembly

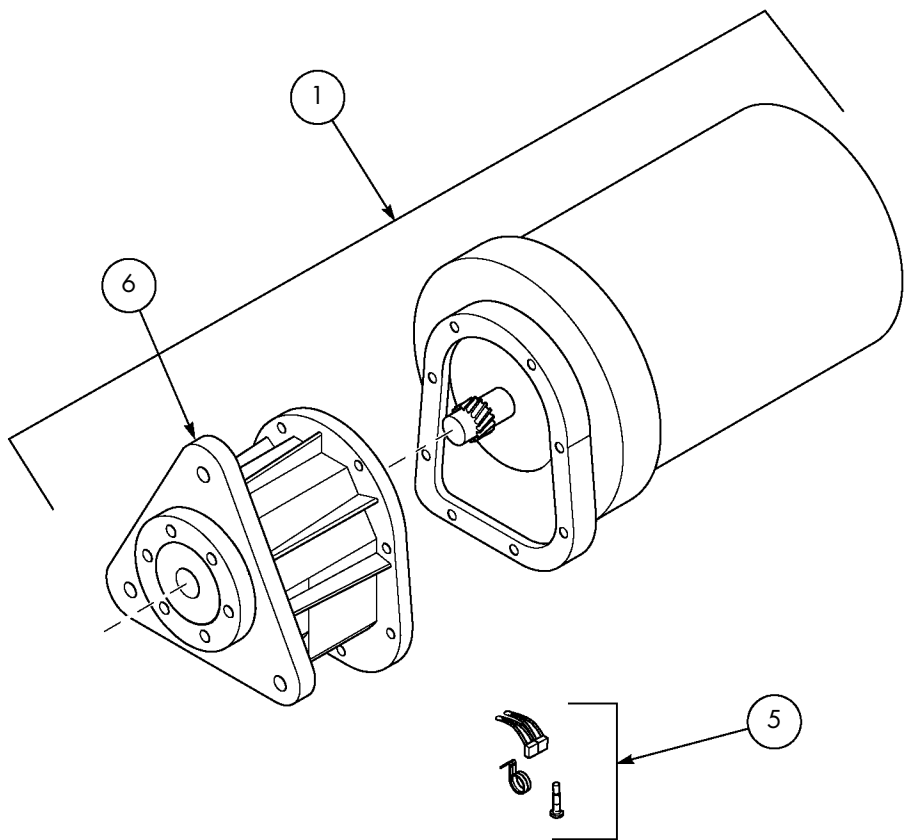
O114-021-058

Steering Wheel Assembly

FIGURE 3-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02771-71	Knob, Steering Wheel	
2	1	00590-00211-71	Screw	
4	1	00590-02976-71	Shaft	
5	1	00590-03024-71	Plate, Steer, Mounting	
6	1	00590-03083-71	Plate, Steering Wheel	
8	2	00590-03172-71	Screw	
9	1	00590-03212-71	Plate, Steer Disc	
10	1	00590-03268-71	Bracket	
11	1	00590-39761-71	Card Assembly, Steer Encoder	R
12	2	00590-02835-71	Bearing	R
13	1	00590-03492-71	Ring, Snap	
14	1	00590-03473-71	Screw	
16	1	00590-03480-71	Nut	
17	1	00590-02961-71	Spring, Tension	R
18	1	00590-46374-71	Block, Friction	
19	1	00590-02969-71	Washer, Flat	
21	2	00590-03542-71	Pin, Dowel, Retainer	
22	1	00590-03573-71	Bolt, Eye	
23	1	00590-03496-71	Pin, Spiral	
24	1	00590-02700-71	Grommet	
25	2	00590-02840-71	Washer, Lock	
27	2	00590-00110-71	Nut, Lock	
30	2	00590-03472-71	Screw	
R= Recommended Spare				

List 3-2: Steering Wheel Assembly

Steer Motor and Gearbox Assembly



O114008-594-201A

Figure 3-3: Steer Motor and Gearbox Assembly

FIGURE 3-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-42225-71	Steering Motor, Electric	
5	1	00590-41886-71	Brush Assembly	R
6	1	00590-02909-71	Gearbox	
R= Recommended Spare				

List 3-3: Steer Motor and Gearbox Assembly

SECTION 4 Drive and Brake

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Motor and Drive Unit Assembly 4-4

Lower Drive Unit Assembly..... 4-6

Deadman Brake Components 4-9

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Brake Assembly..... 4-14

Deadman Brake Assembly 4-16

Wheel Assembly, Standard, Rounded Black Tire..... 4-18

Drive and Brake Components

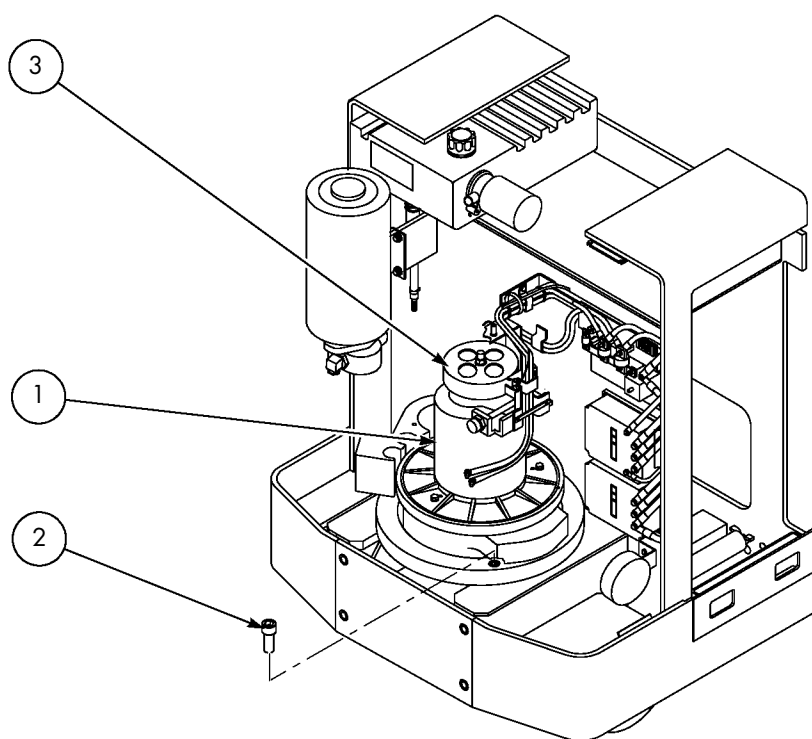


Figure 4-1: Drive and Brake Components

O114-120-210-E

FIGURE 4-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Motor and Drive Unit Assembly (See Figure 4-2.)	
2	3	00590-02846-71	Screw	
3		Ref.	Brake Assembly (See Figure 4-6.)	

List 4-1: Drive and Brake Components

Motor and Drive Unit Assembly

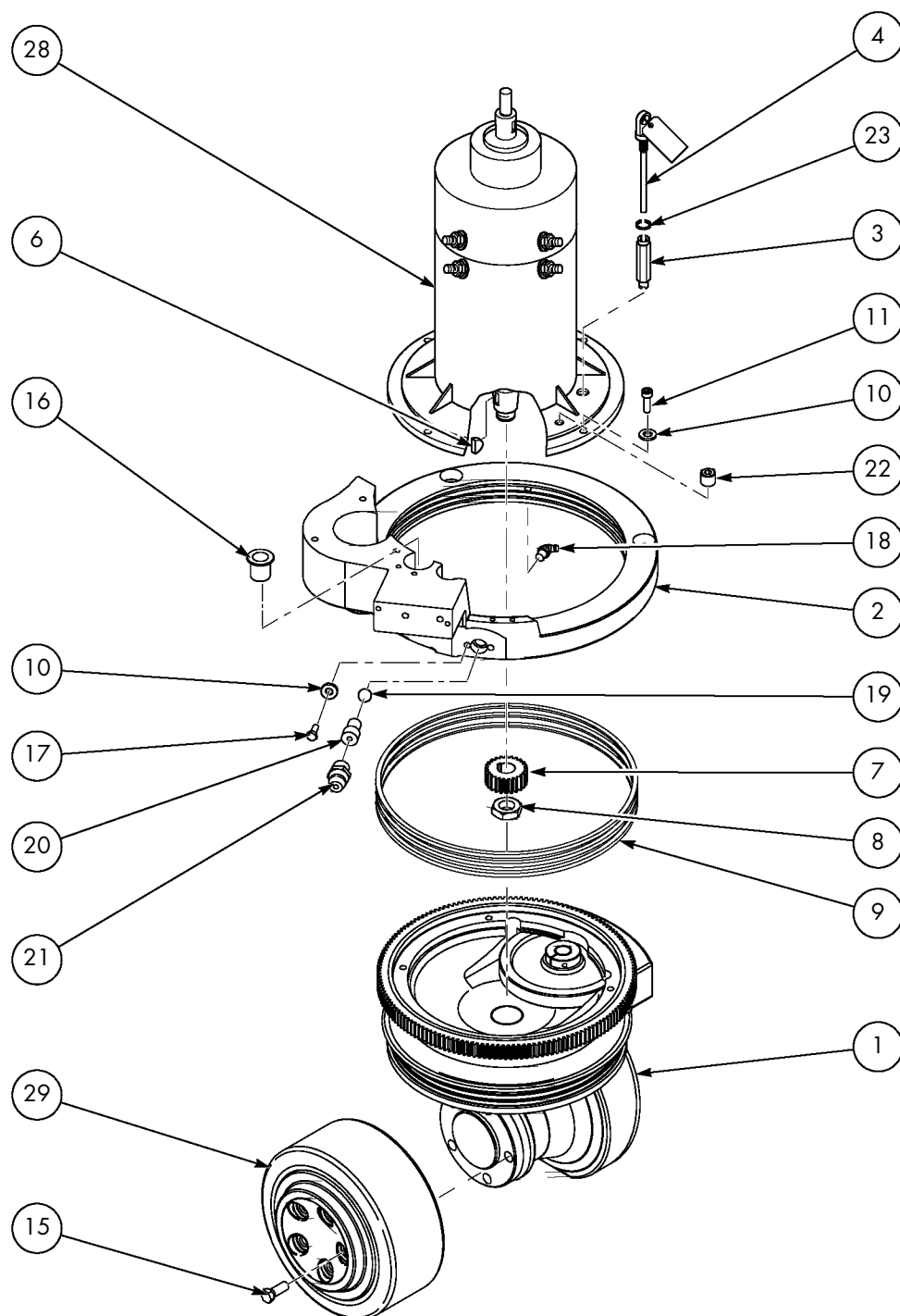


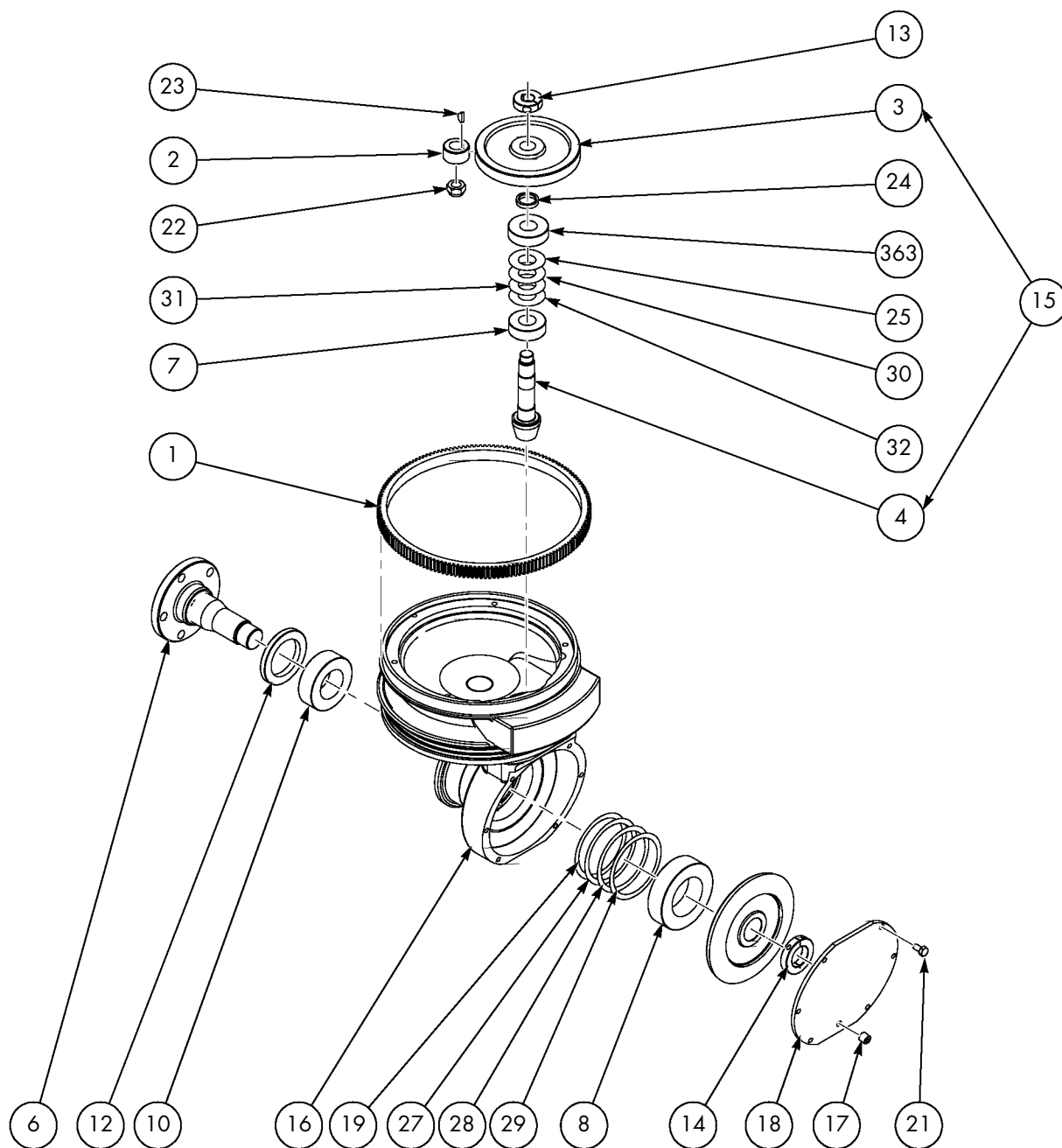
Figure 4-2: Motor and Drive Unit Assembly

O114-021-068-D

FIGURE 4-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02714-71	Drive Unit Assembly, Lower (See Figure 4-3.)	
2	1	00590-47104-71	Ring, Pivot Machine	
3	1	00590-02915-71	Plug, Dipstick	
4	1	00590-02980-71	Cover, Dipstick	
6	1	00590-03088-71	Key, Woodruff	
7	1	00590-02854-71	Gear, Pinion	C
8	1	00590-03177-71	Nut	
9	1	00590-46372-71	Kit, Ring Set	R
10	6	00590-02940-71	Washer, Flat	
11	4	00590-03430-71	Screw	
15	5	00590-03552-71	Bolt, Drive Tire	
16	1	00590-03419-71	Bearing	R
17	2	00590-03029-71	Screw	
18	1	00590-01691-71	Fitting, Grease	
19	65	00590-01693-71	Ball, 9/16 Dia.	
20	1	00590-50000-71	Plug, Bearing, Filler	
21	1	00590-03570-71	Fitting, Grease	
22	1	00590-02918-71	Plug, Mechanical	
23	1	00590-02974-71	O-Ring	R
28	1	00590-40274-71	Motor, Drive (See Figure 5-24.)	
	1	00590-43001-71	Motor, Drive, Rebuilt (See Figure 5-24.)	
29	1	00590-40283-71	Wheel, Hub Assembly (See Figure 4-8.)	
R= Recommended Spare				

List 4-2: Motor and Drive Unit Assembly

Lower Drive Unit Assembly



0828-005-677-F

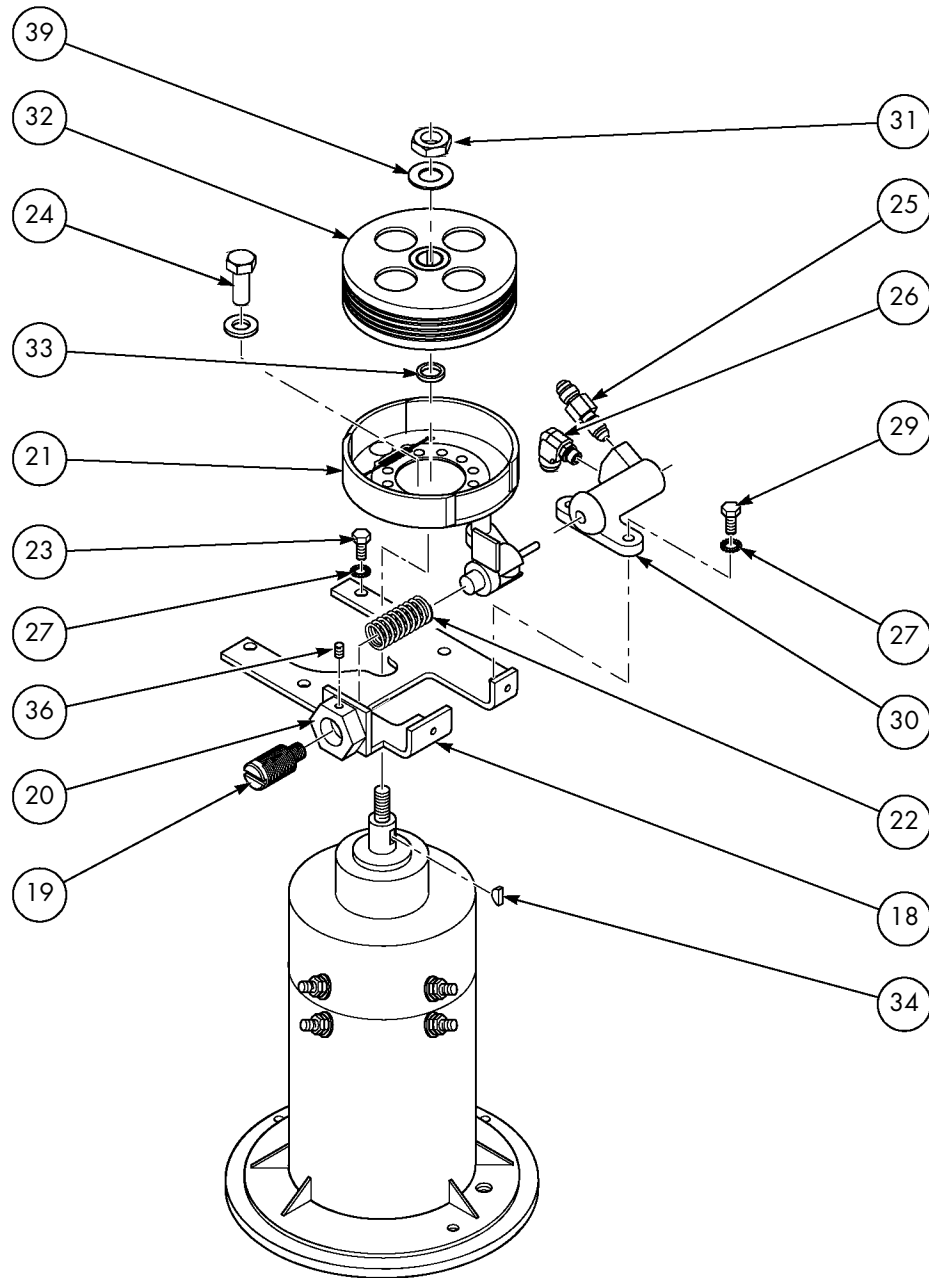
Figure 4-3: Lower Drive Unit Assembly

FIGURE 4-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02780-71	Gear, Spur	
2	1	00590-02854-71	Gear, Helical, Pinion	C
3	1	00590-02919-71	Gear, Helical	C
4	1	00590-39767-71	Gear, Spirol Bevel, Pinion	
6	1	00590-03091-71	Shaft, Axle	
7	1	00590-41862-71	Bearing Set (includes:)	C, R
	1	00590-39765-71	Bearing, Cone	
	1	00590-39776-71	Bearing, Cup	
8	1	00590-41861-71	Bearing, Cone	
10	1	00590-41860-71	Bearing, Cone	A, B
12	1	00590-02779-71	Seal, Oil	A, B
13	1	00590-45418-71	Nut, Clamp	C
14	1	00590-45616-71	Nut, Clamp	A, B
15	1	00590-39767-71	Gear and Pinion Set	C
16	1	00590-39768-71	Housing, Gear, Machined	
17	1	00590-02918-71	Plug	
18	1	00590-02984-71	Plate, Cover	
19	2	00590-39871-71	Shim	B
21	6	00590-03029-71	Screw	
22	1	00590-39769-71	Nut, Lock	
23	1	00590-03088-71	Key, Woodruff	
24	1	00590-39660-71	Spacer	C
25	AR	00590-39770-71	Shim	C
27	AR	00590-39872-71	Shim	B
28	AR	00590-41883-71	Shim	B
29	AR	00590-41884-71	Shim	B
30	AR	00590-39771-71	Shim	C
31	AR	00590-39772-71	Shim	C
32	AR	00590-39773-71	Shim	C
33	1	00590-47105-71	Bearing, Cone	C, R
34	1	00590-39777-71	Kit, Seal (Not Shown)	R
35	1	00590-39778-71	Kit, Axle Shaft (Not Shown)	R
36	1	00590-39779-71	Kit, Drive Gear (Not Shown)	R
A= Included in item 34 B= Included in item 35 C= Included in item 36 R= Recommended Spare				

List 4-3: Lower Drive Unit Assembly

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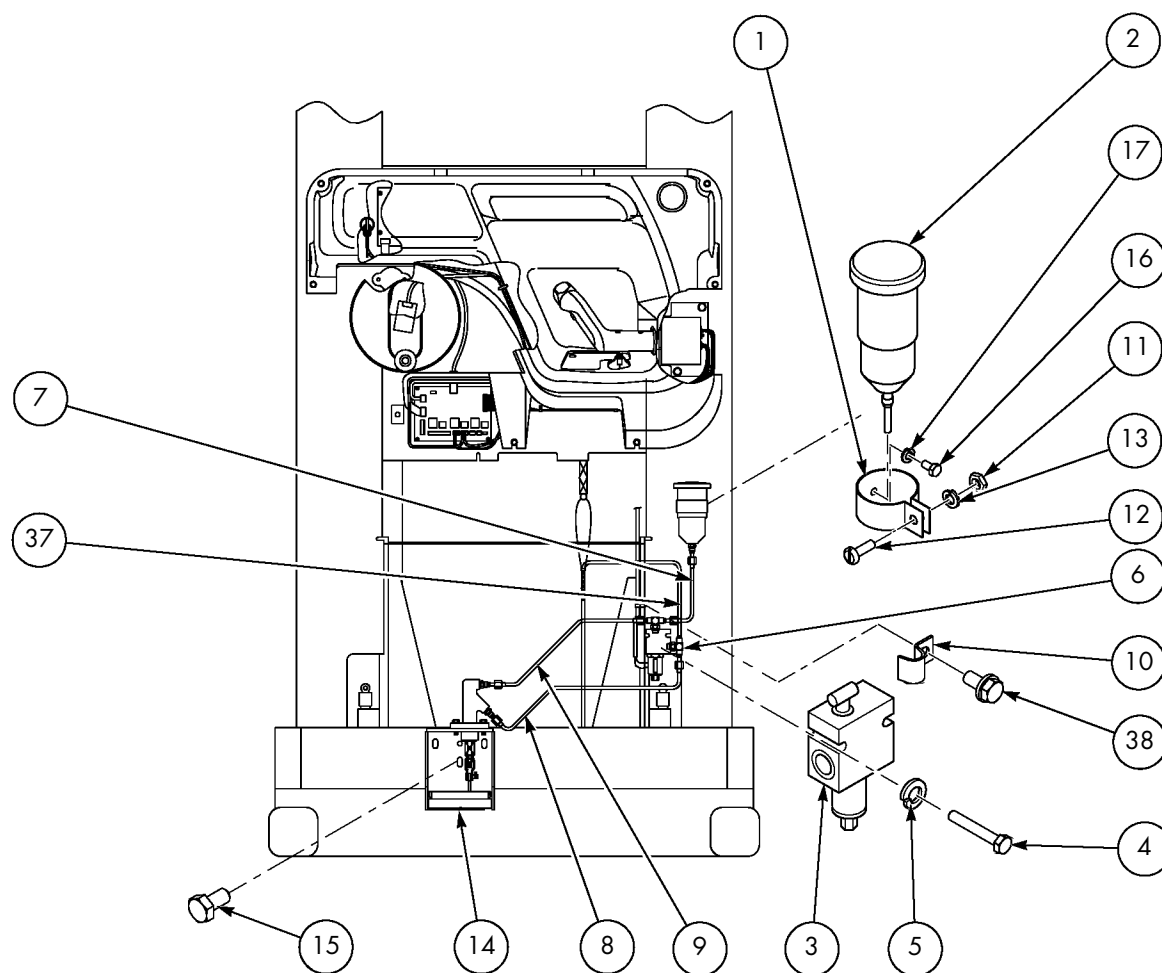
Deadman Brake Components



O114-021-002-G SHT 1 OF 2

Figure 4-4a: Deadman Brake Components

Deadman Brake Components



O114-021-048-T SHT 2 OF 2

Figure 4-4b: Deadman Brake Components

Deadman Brake Components

FIGURE 4-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02775-71	Strap	
2	1	00590-02848-71	Reservoir, Master Cylinder	
3	1	00590-02916-71	Valve, Solenoid (includes:)	
	1	00590-41904-71	Kit, Seal	R
4	2	00590-02981-71	Screw	
5	2	00590-00113-71	Washer, Lock	
6	2	00590-03089-71	Tee, Tube Fitting	
7	1	00590-03129-71	Line Assembly, Hydraulic	
8	1	00590-03178-71	Line Assembly, Hydraulic	
9	1	00590-03215-71	Line Assembly, Hydraulic	
10	1	00590-41874-71	Clip, Tube	
11	1	00590-03093-71	Nut	
12	1	00590-03616-71	Screw	
13	1	00590-03081-71	Washer, Lock	
14	1	00590-02715-71	Pedal, Brake, Subassembly (See Figure 4-7.)	
15	3	00590-02960-71	Screw	
16	1	00590-03421-71	Screw	
17	1	00590-00569-71	Washer, Lock	
18	1	00590-03282-71	Weldment, Bracket	
19	1	00590-03285-71	Screw, Brake Adjust	
20	1	00590-03478-71	Nut	
21	1	00590-03550-71	Brake, Assembly (See Figure 4-6.)	
22	1	00590-03566-71	Spring, Compression	R
23	4	00590-03424-71	Screw	
24	5	00590-03465-71	Screw	
25	1	00590-03179-71	Connector, Hydraulic	
26	1	00590-00274-71	Elbow, Swivel	
27	4	00590-01679-71	Washer, Lock	
29	2	00590-03470-71	Screw	
30	1	00590-40558-71	Cylinder, Slave	R
31	1	00590-03177-71	Nut	
32	1	00590-04514-71	Drum, Brake Machine	
33	1	00590-04619-71	Spacer, Brake Drum	
34	1	00590-00391-71	Key, Woodruff	
36	1	00590-03474-71	Screw, Set	
37	1	Ref.	Hose Assembly, Brake (See Figure 7-3a.)	
38	1	00590-03085-71	Screw	
39	1	00590-41867-71	Washer	
R= Recommended Spare				

List 4-4: Deadman Brake Components

Brake Installation

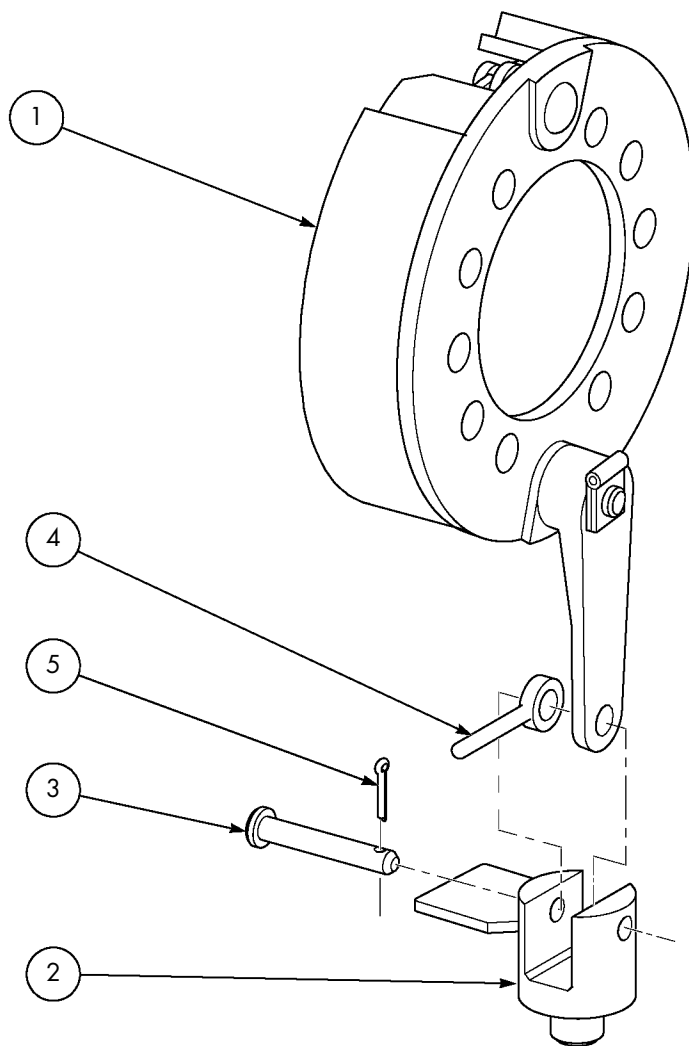


Figure 4-5: Brake Installation

O828-001-544C

FIGURE 4-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-00384-71	Brake Assembly (See Figure 4-6.)	
2	1	00590-02849-71	Weldment, Clevis	
3	1	00590-00446-71	Pin, Clevis	
4	1	00590-02982-71	Rod, Push	
5	1	00590-00444-71	Pin, Cotter	

List 4-5: Brake Installation

Brake Assembly

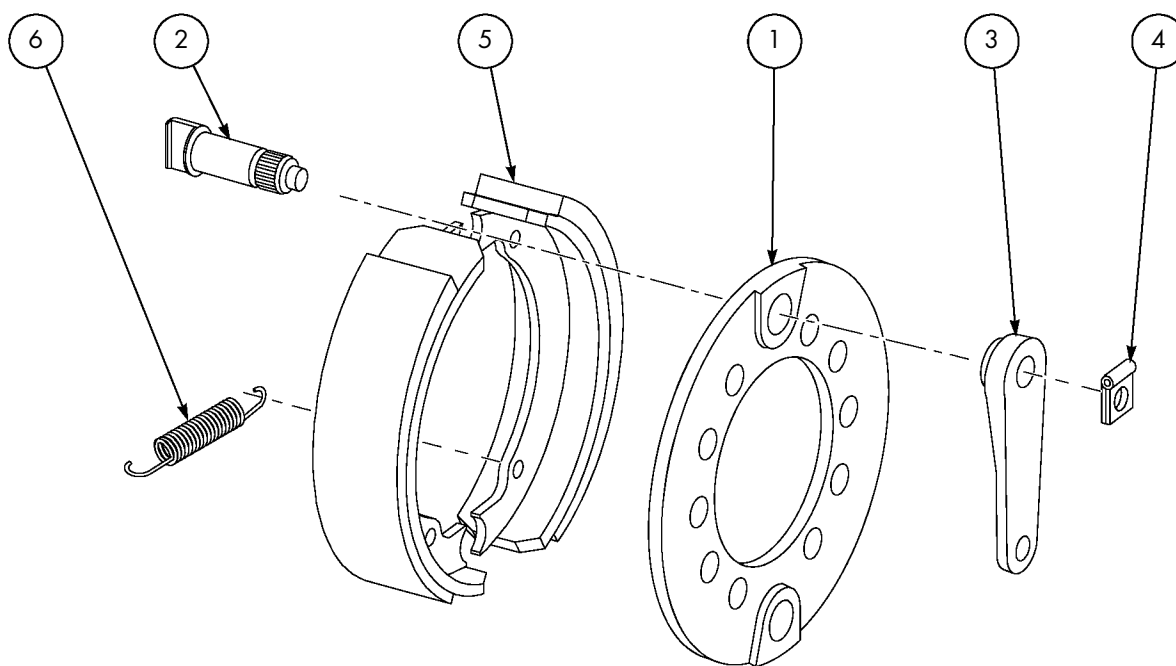


Figure 4-6: Brake Assembly

O400-060

FIGURE 4-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04523-71	Plate, Backing	
2	1	00590-47106-71	Cam	
3	1	00590-04870-71	Lever	
4	1	00590-47106-71	Clip	
5	2	00590-04520-71	Shoe Assembly	R
6	2	00590-04521-71	Spring, Return	R
R= Recommended Spare				

List 4-6: Brake Assembly

Deadman Brake Assembly

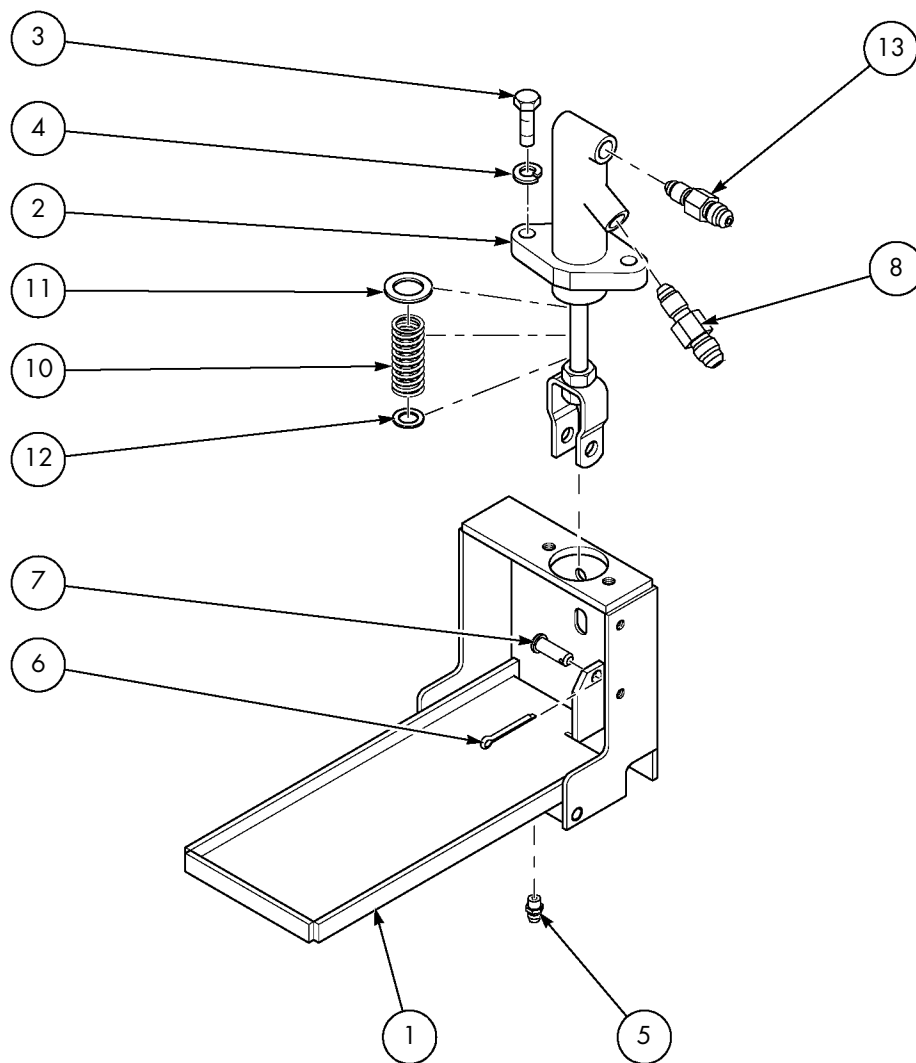


Figure 4-7: Deadman Brake Assembly

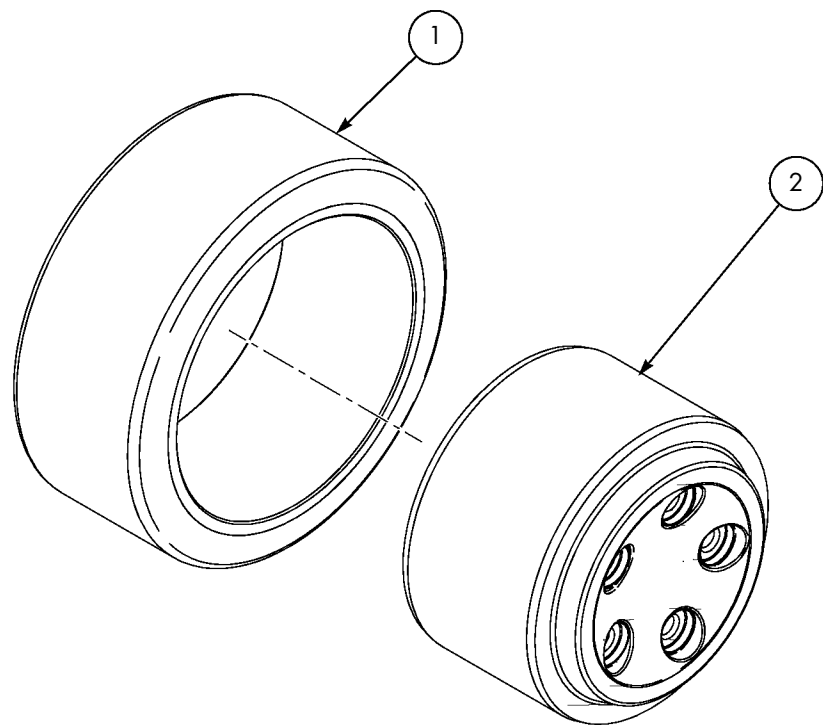
O114-010-046-D

Deadman Brake Assembly

FIGURE 4-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02776-71	Weldment, Pedal	
2	1	00590-42269-71	Cylinder, Master	
3	2	00590-01444-71	Screw	
4	2	00590-00224-71	Washer, Lock	
5	1	00590-00019-71	Fitting, Grease	
6	1	00590-00444-71	Pin, Cotter	
7	1	00590-03130-71	Pin, Yoke	
8	1	00590-03179-71	Connector, Hydraulic	
10	1	00590-03565-71	Spring, Compression, Hose Take-up	R
11	1	00590-03163-71	Washer, Flat	
12	1	00590-02940-71	Washer, Flat	
13	1	00590-03267-71	Connector, Hydraulic	
R= Recommended Spare				

List 4-7: Deadman Brake Assembly

Wheel Assembly, Standard, Rounded Black Tire



O114018-513-00X

Figure 4-8: Wheel Assembly, Standard, Rounded Black Tire

FIGURE 4-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-40283-71	Wheel Assembly, Standard, Rounded Black Tire)	
1	1	00590-40284-71	Tire, Black Polyethylene, 90 Durometer	R
	1	00590-41875-71	Tire, Red-Orange Polyethylene, 83 Durometer	A
	1	00590-41876-71	Tire, Red-Orange Polyethylene, 83 Durometer	B
2	1	00590-02852-71	Wheel, Machined	
A= Trostel B= Thombert R= Recommended Spare				

List 4-8: Wheel Assembly, Standard, Rounded Black Tire

SECTION 5 Electrical Components and Systems

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Electrical System

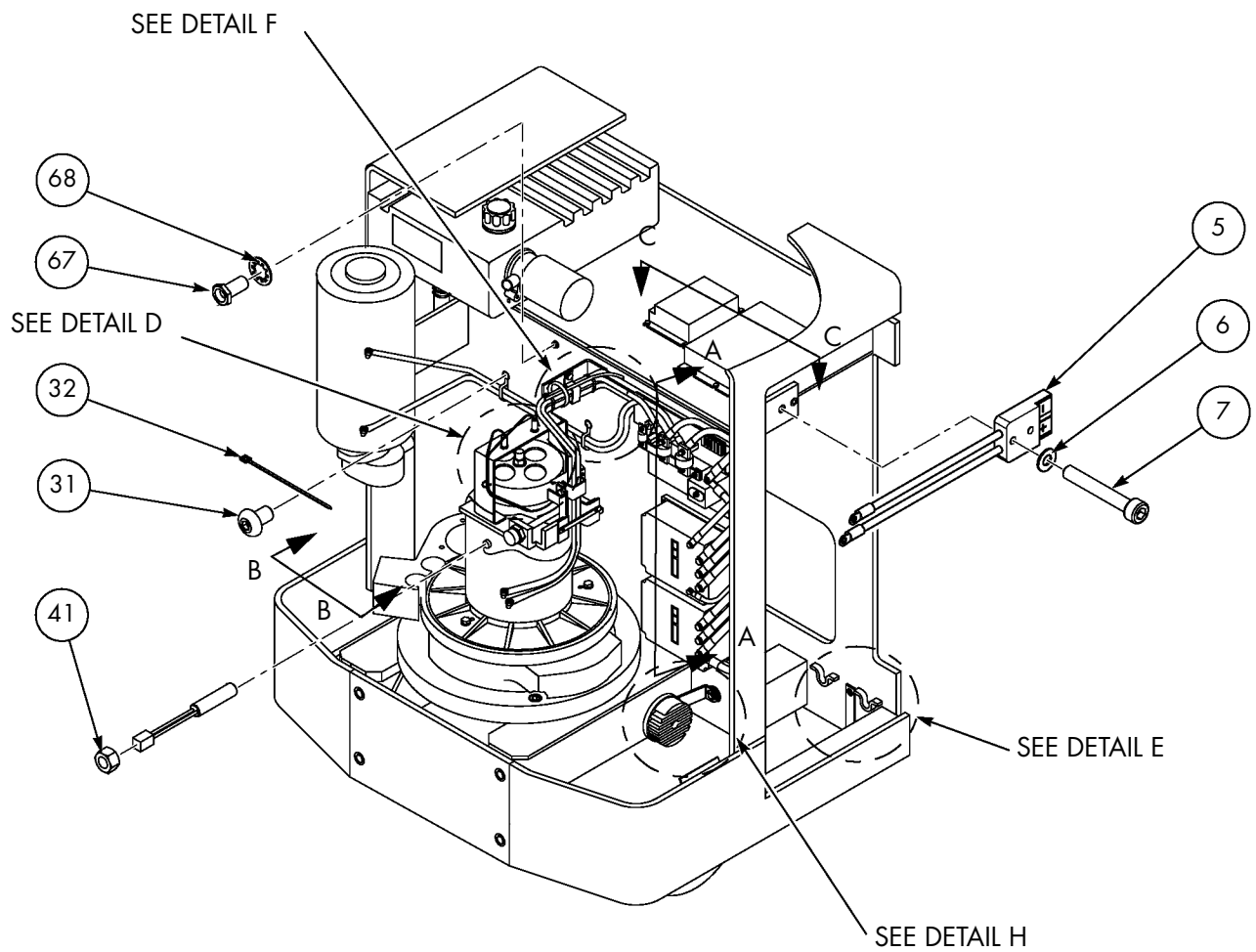
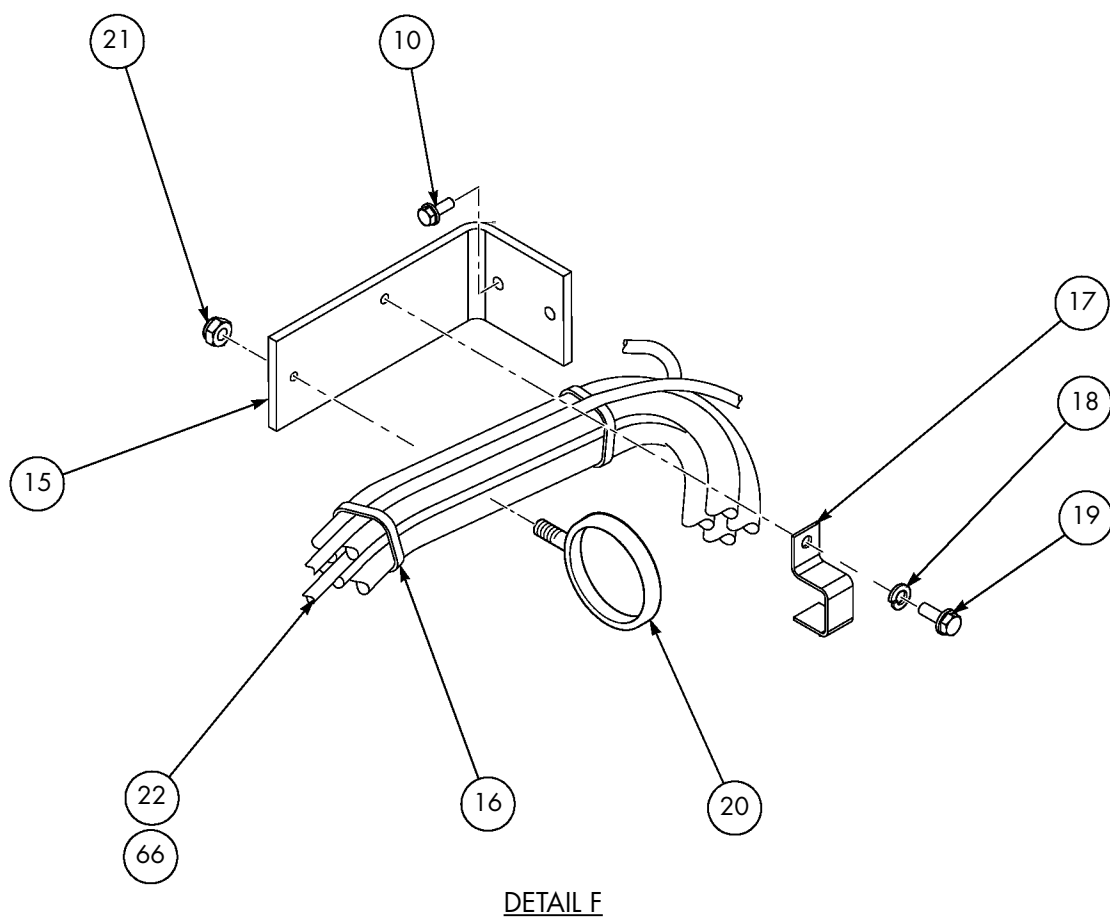


Figure 5-1a: Electrical System

O114-021-000-N1 SHT 1 OF 6

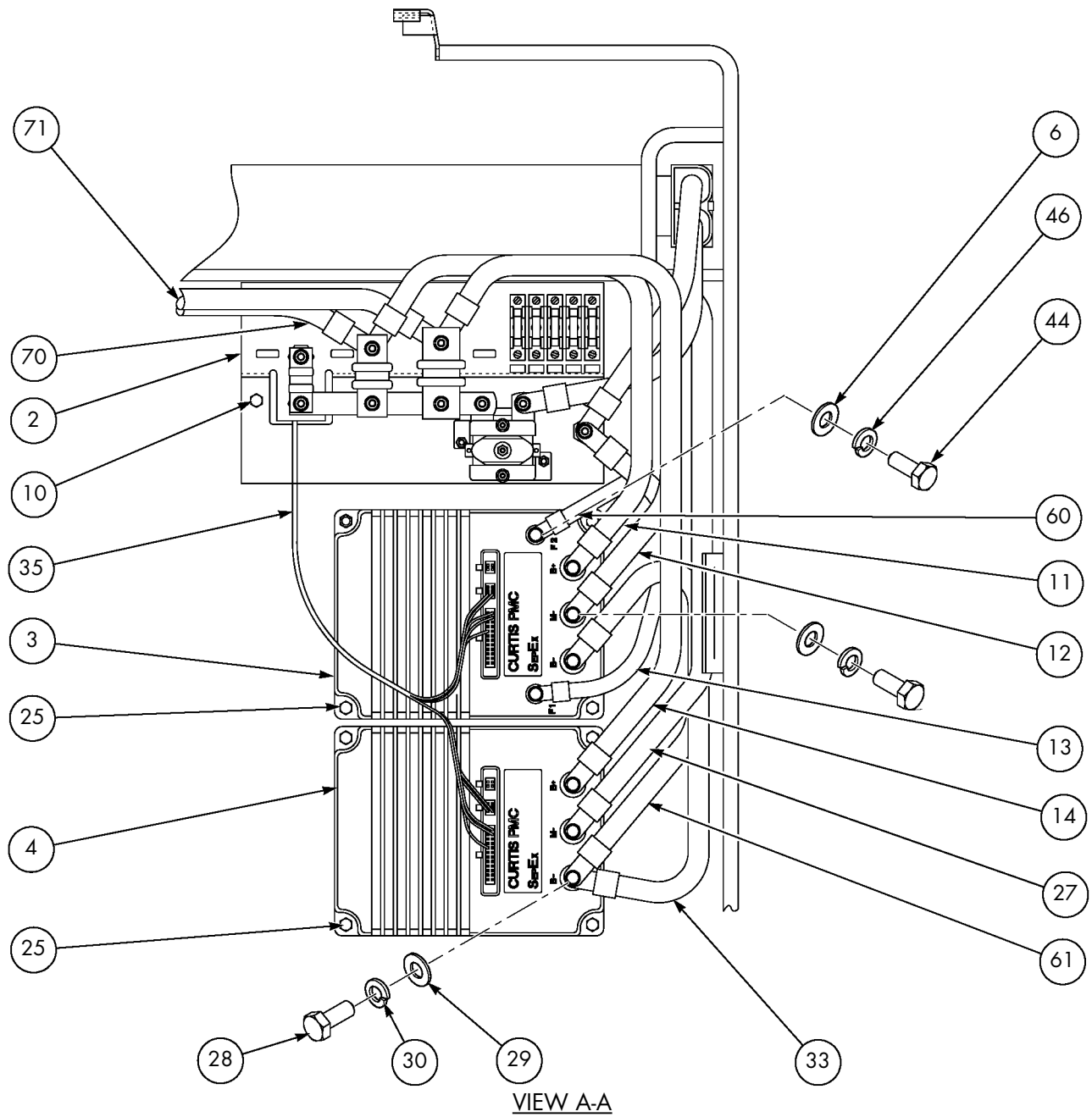
Electrical System



O114-021-000-N2 SHT 2 OF 6

Figure 5-1b: Electrical System

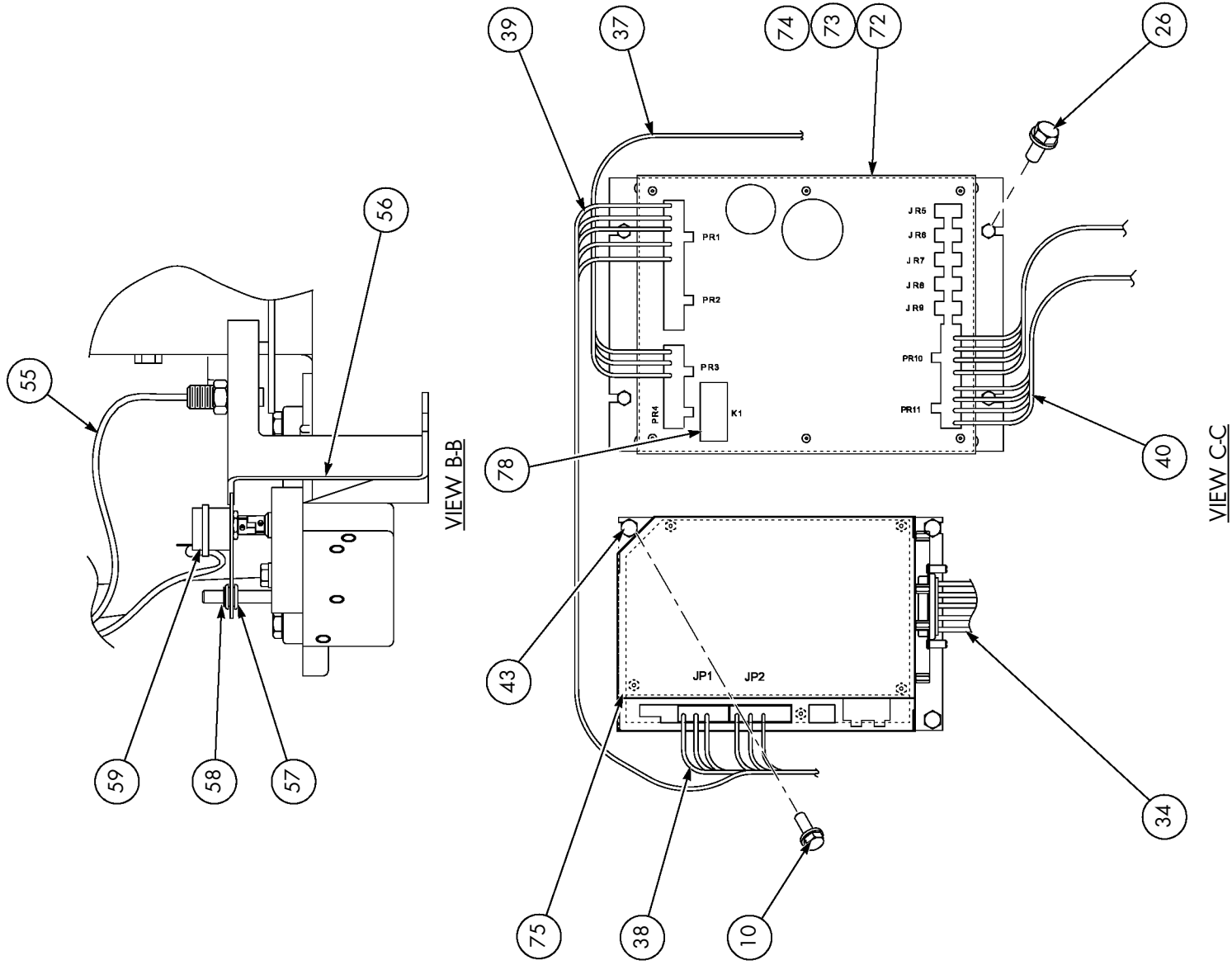
Electrical System



O114-021-000-N3 SHT 3 OF 6

Figure 5-1c: Electrical System

Electrical System



O114021-000N4 SHT 4 OF 6

Figure 5-1d: Electrical System

Electrical System

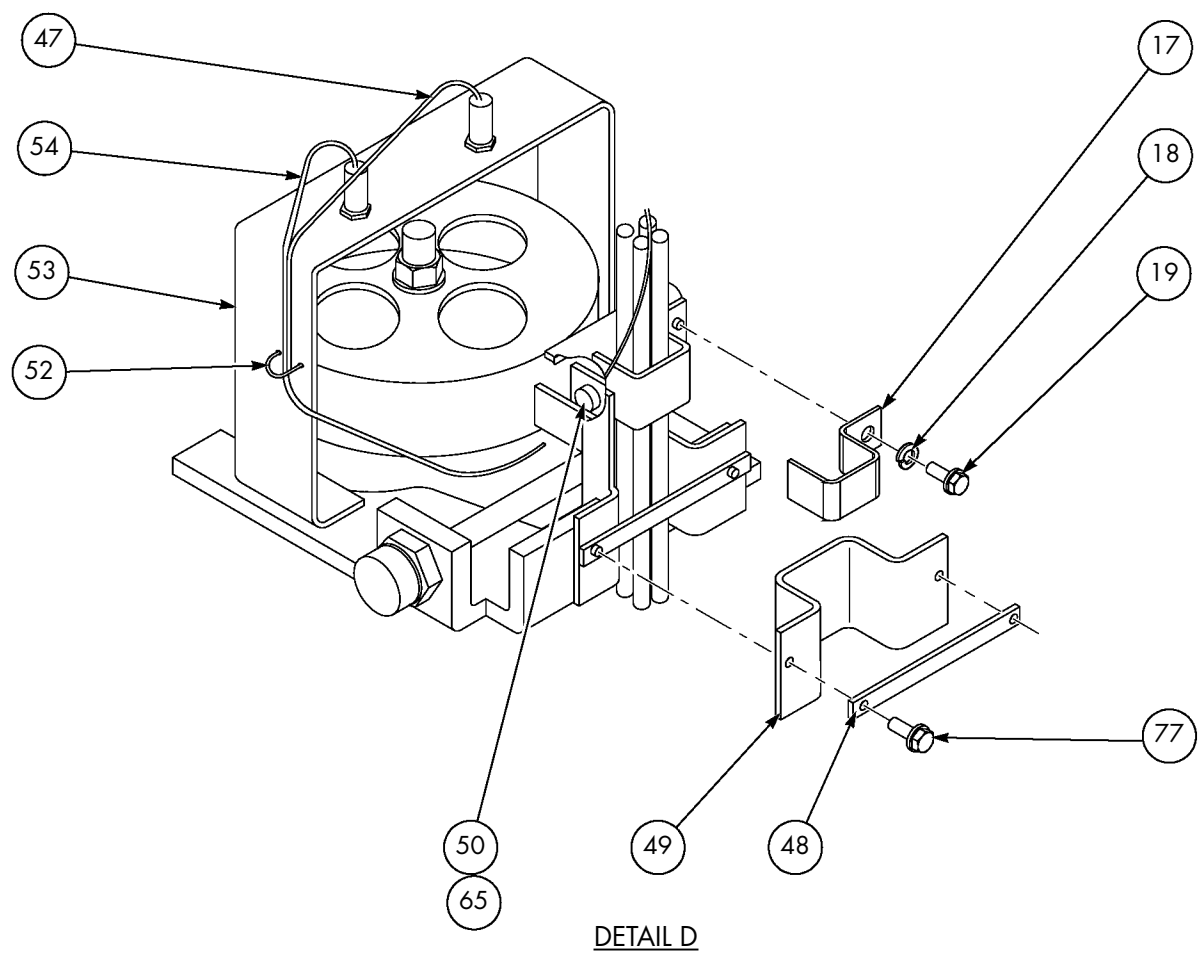


Figure 5-1e: Electrical System

O114-021-000-N5 SHT 5 OF 6

Electrical System

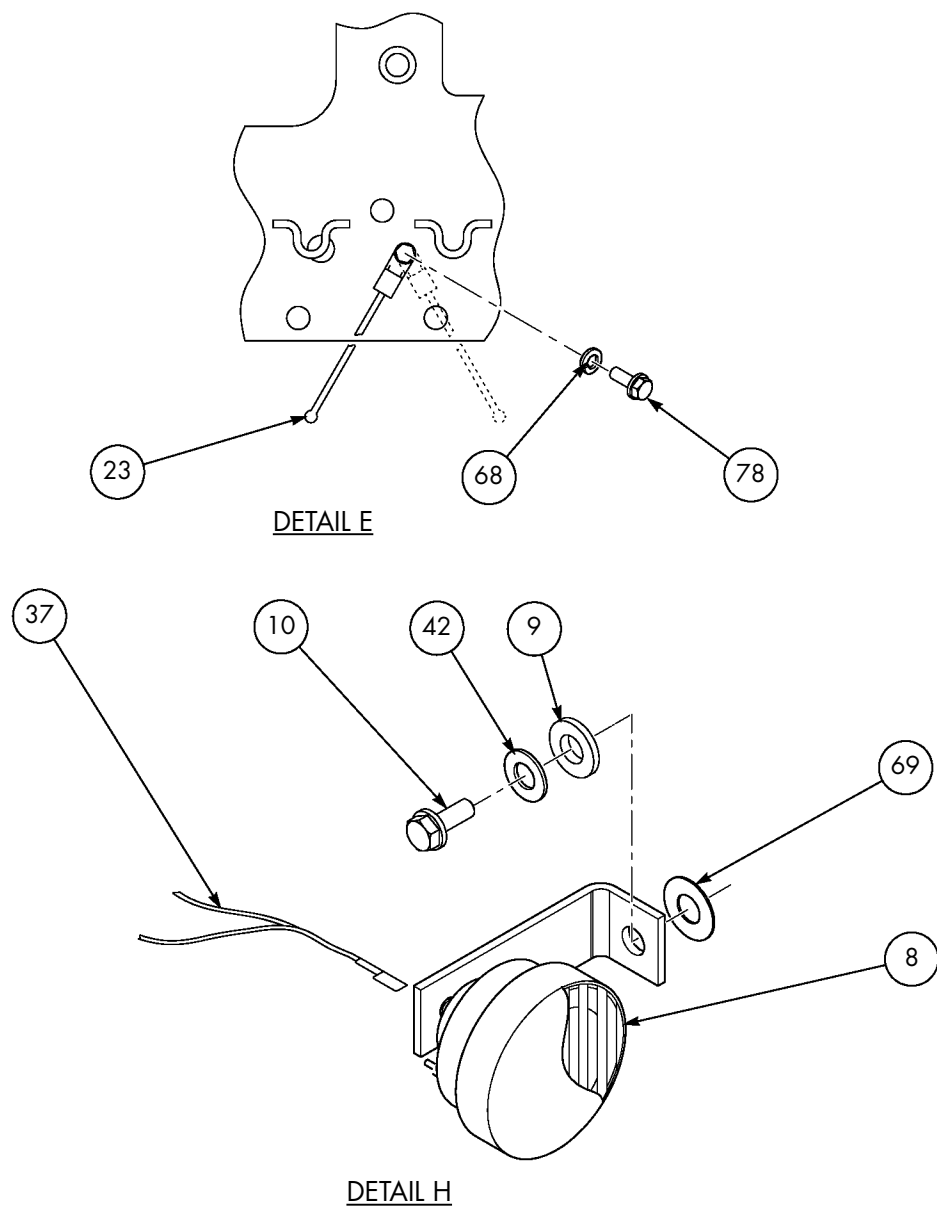


Figure 5-1f: Electrical System

O114-021-000-N6 SHT 6 OF 6

FIGURE 5-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	1	00590-02718-71	Contactor Assembly (See Figure 5-3.)	
3	1	00590-45693-71	Controller, Traction	R
4	1	00590-42650-71	Controller, Lift	R
5	1	00590-03031-71	Connector Assembly, Battery (See Figure 5-12.)	
6	4	00590-03092-71	Washer, Flat	
7	2	00590-47107-71	Screw	
8	1	00590-45655-71	Horn (24 Volt)	
9	1	00590-01359-71	Insulator, Shoulder Washer	
10	10	00590-02917-71	Screw	
11	1	00590-03224-71	Cable Assembly	
12	1	00590-03229-71	Cable Assembly	
13	1	00590-03231-71	Cable Assembly	
14	1	00590-03225-71	Cable Assembly	
15	1	00590-03300-71	Bracket, Cable	
16	8	00590-00556-71	Cable Tie	
17	2	00590-02777-71	Clamp	
18	4	00590-02851-71	Washer, Lock	
19	2	00590-02917-71	Screw	
20	1	00590-03273-71	Ring	
21	1	00590-02992-71	Nut	
22	1	00590-03234-71	Hose Assembly	
23	2	00590-47108-71	Insulator, Static Assembly	
25	8	00590-47109-71	Screw	
26	4	00590-03591-71	Screw	
27	1	00590-03228-71	Cable Assembly	
28	6	00590-03127-71	Screw	
29	6	00590-02940-71	Washer, Flat	
30	6	00590-02840-71	Washer, Lock	
31	2	00590-03001-71	Screw	
32	2	00590-03458-71	Cable Tie	
33	1	00590-03223-71	Cable Assembly	
34	1	00590-03387-71	Cable Assembly	
35	1	00590-03389-71	Harness, Wiring	
37	1	00590-45657-71	Harness, Wiring	
38	1	00590-46070-71	Harness, Wiring	
39	1	00590-40838-71	Harness, Wiring	
40	1	00590-03392-71	Harness, Wiring	
41	1	00590-14737-71	Nut	
42	1	00590-00568-71	Washer, Flat	
43		Ref.	Installation, Firmware, Steer Controller (Not Shown)	
44	2	00590-03422-71	Screw	
46	2	00590-02851-71	Washer, Lock	
A= Standard B= Cold Storage R= Recommended Spare				

List 5-1: Electrical System (Sheet 1 of 2)

Electrical System

FIGURE 5-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
47	1	00590-03028-71	Cable Assembly, Proximity	R
48	1	00590-39565-71	Guard, Cable Assembly	
49	1	00590-03131-71	Bracket, Cable	
50	1	00590-03180-71	Switch (S2)	A, R
52	1	00590-00811-71	Cable Tie	
53	1	00590-03298-71	Bracket, Motor	
54	1	00590-03288-71	Cable Assembly, Proximity	R
55	1	00590-03287-71	Cable Assembly, Proximity	R
56	1	00590-03268-71	Bracket	
57	1	00590-02700-71	Grommet	
58	1	00590-03494-71	Ring, Snap	
59	1	00590-03299-71	Encoder Assembly	
60	1	00590-03230-71	Cable Assembly	
61	1	00590-03222-71	Cable Assembly	
65	1	00590-03216-71	Switch, Push Button, Environmental (S2)	B, R
66	1	00590-03486-71	Connector, Union	
67	1	00590-03577-71	Jack, Banana	
68	1	00590-03484-71	Washer, Lock	
69	1	00590-44047-71	Washer, Flat	
70	1	00590-03227-71	Cable Assembly	
71	1	00590-03226-71	Cable Assembly	
72	1	00590-03399-71	Tractor Interface Assembly (includes: items 73 thru 75)	
73	1	00590-39581-71	Card Assembly, Interface	R
74	6	00590-03032-71	Screw	
75	1	00590-03385-71	Cover, Interface	
77	2	00590-41863-71	Bolt	
78	1	00590-42175-71	Relay, K1	
A= Standard B= Cold Storage R= Recommended Spare				

List 5-1: Electrical System (Sheet 2 of 2)

Carriage Electrical Assembly

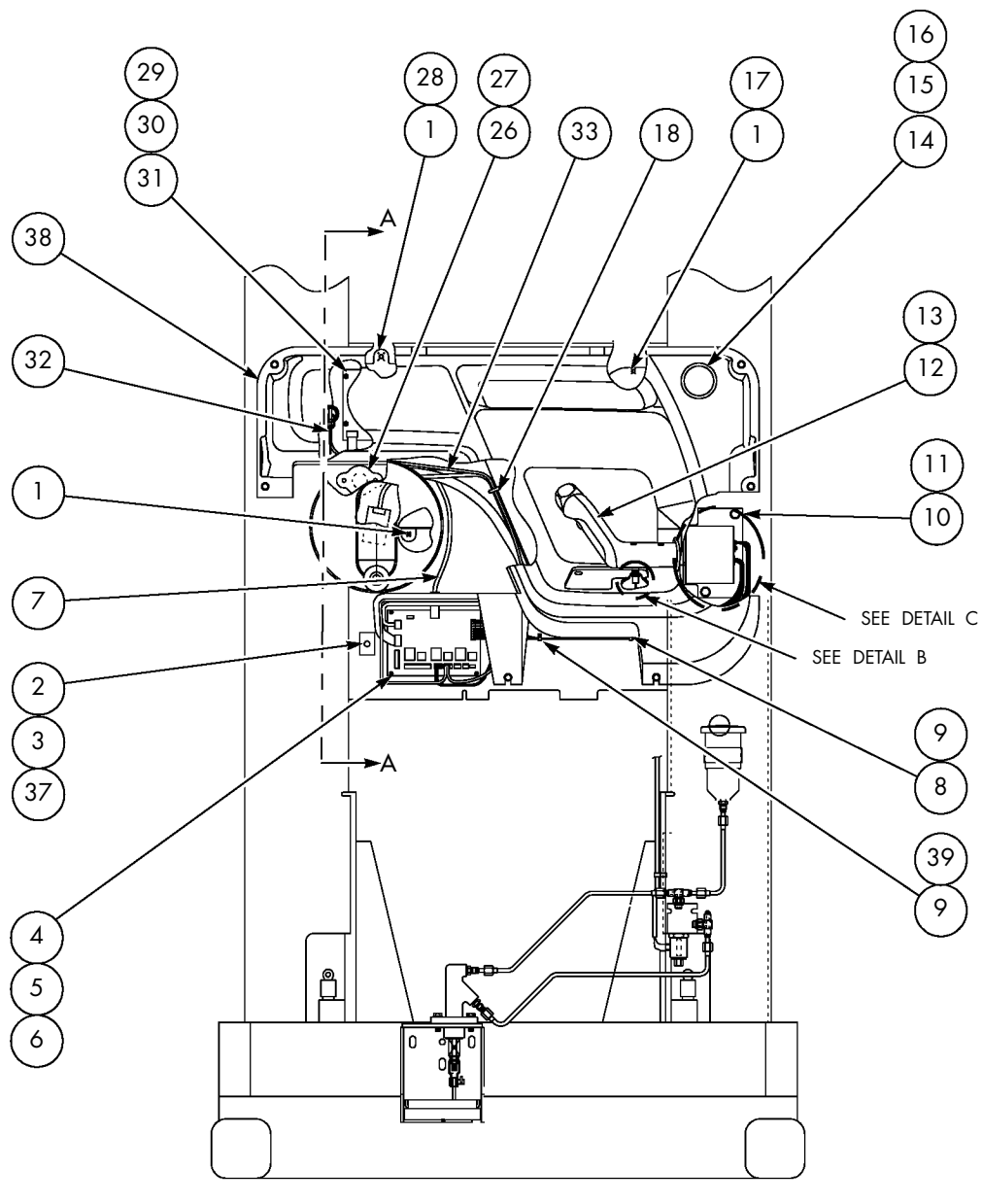


Figure 5-2a: Carriage Electrical Assembly

O114021-048-T2 SHT 1 OF 2

Carriage Electrical Assembly

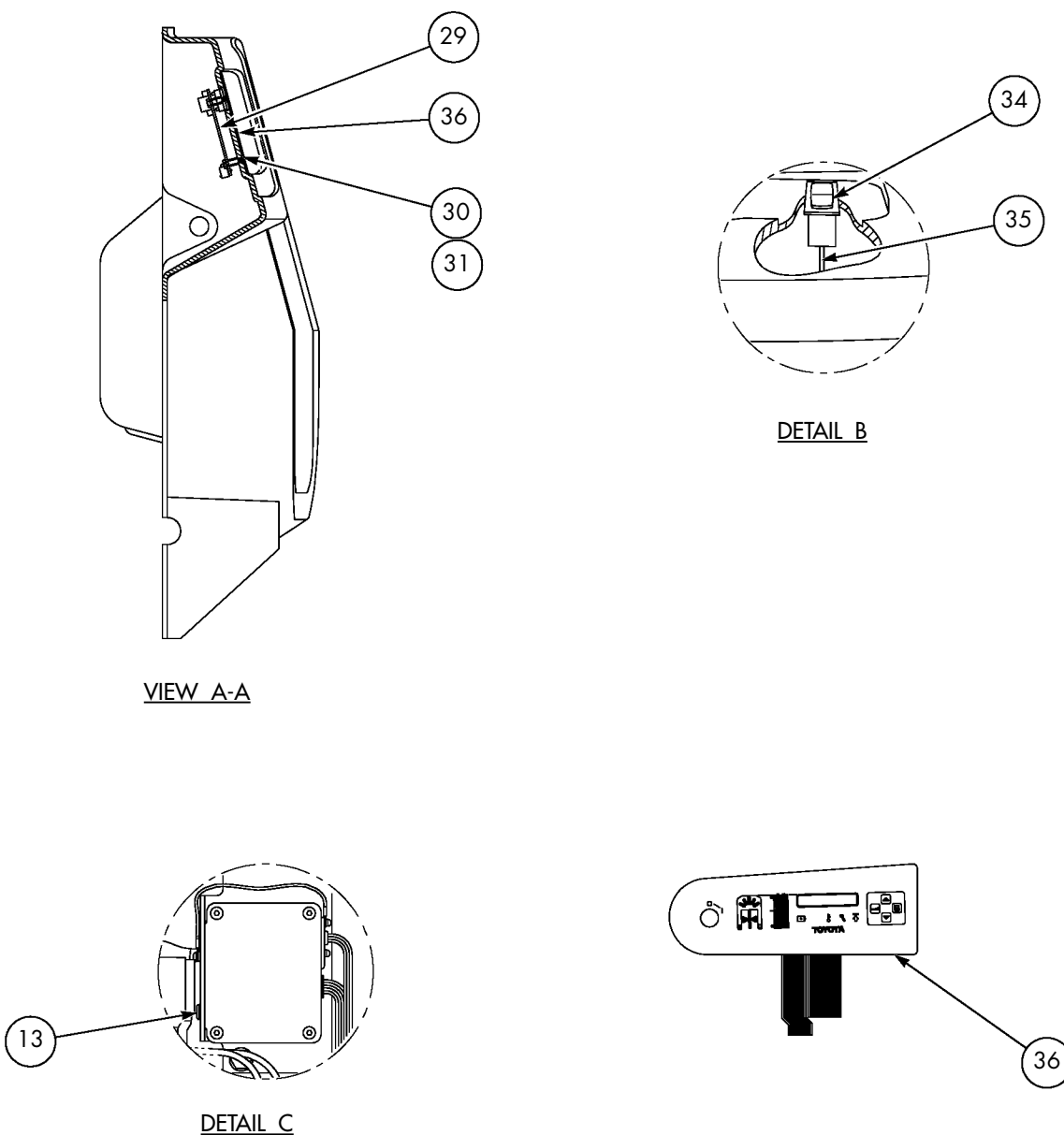


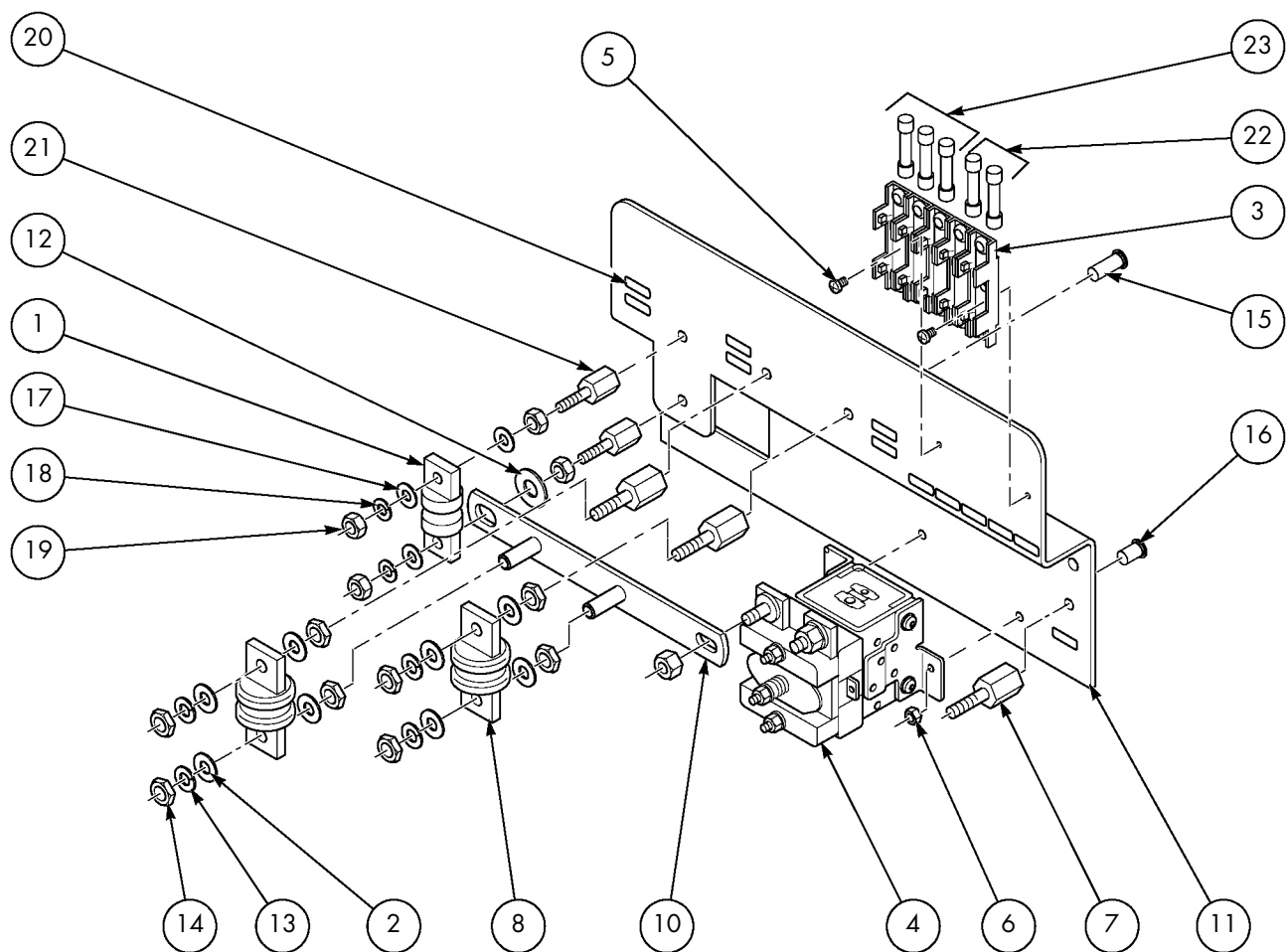
Figure 5-2b: Carriage Electrical Assembly

O114-021-048-T3 SHT 2 OF 2

FIGURE 5-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	00590-39782-71	Screw	
2	1	00590-03577-71	Jack, Banana	
3	1	00590-03484-71	Washer, Lock	
4	1	00590-40877-71	Card Assembly, Carriage Interface	R
5	4	00590-03434-71	Screw	
6	4	00590-03103-71	Spacer, Thread	
7	1	00590-03396-71	Cable Assembly	
8	2	00590-03242-71	Clamp, Cushioned Loop	
9	2	00590-03591-71	Screw	
10	1	00590-03284-71	Bracket, Control Box	
11	8	00590-03021-71	Screw	
12	1	00590-45436-71	Control Handle Assembly, Standard (See Figure 5-26a.)	
	1	00590-45702-71	Control Handle Assembly, Cold Storage (See Figure 5-26a.)	B
13	2	00590-03432-71	Screw	
14	1	00590-03395-71	Harness, Wiring	
15	1	00590-03248-71	Switch, Emergency Power OFF (S21)	R
16	1	00590-03249-71	Switch, Contact Block Base	
17	1	00590-39784-71	Cover, Switch	
18	2	00590-00556-71	Cable Tie	
26	1	00590-03449-71	Horn, Pizeo Ceramic	
27	2	00590-03431-71	Screw	
28	1	00590-39785-71	Plate, Cover	
29		Ref.	Display Controller Assembly (See Figure 5-6.)	
30	4	00590-03144-71	Nut	
31	4	00590-03289-71	Spacer	
32	1	00590-05217-71	Switch, Operator's Keyed (S1)	R
	1	00590-04577-71	Key, Set (2) (Not Shown)	R
33	1	00590-03286-71	Harness, Wiring	
34	1	00590-03247-71	Switch, Wire Guidance	A, R
35	1	00590-03394-71	Cable Assembly	A
36	1	00590-03383-71	Display Assembly, Operator	
37	1	00590-03508-71	Decal, ESD	
38	1	00590-03393-71	Bezel	
39	1	00590-41880-71	Clamp	
A= With Wire Guidance B= Cold Storage R= Recommended Spare				

List 5-2: Carriage Electrical Assembly

Contactor Assembly



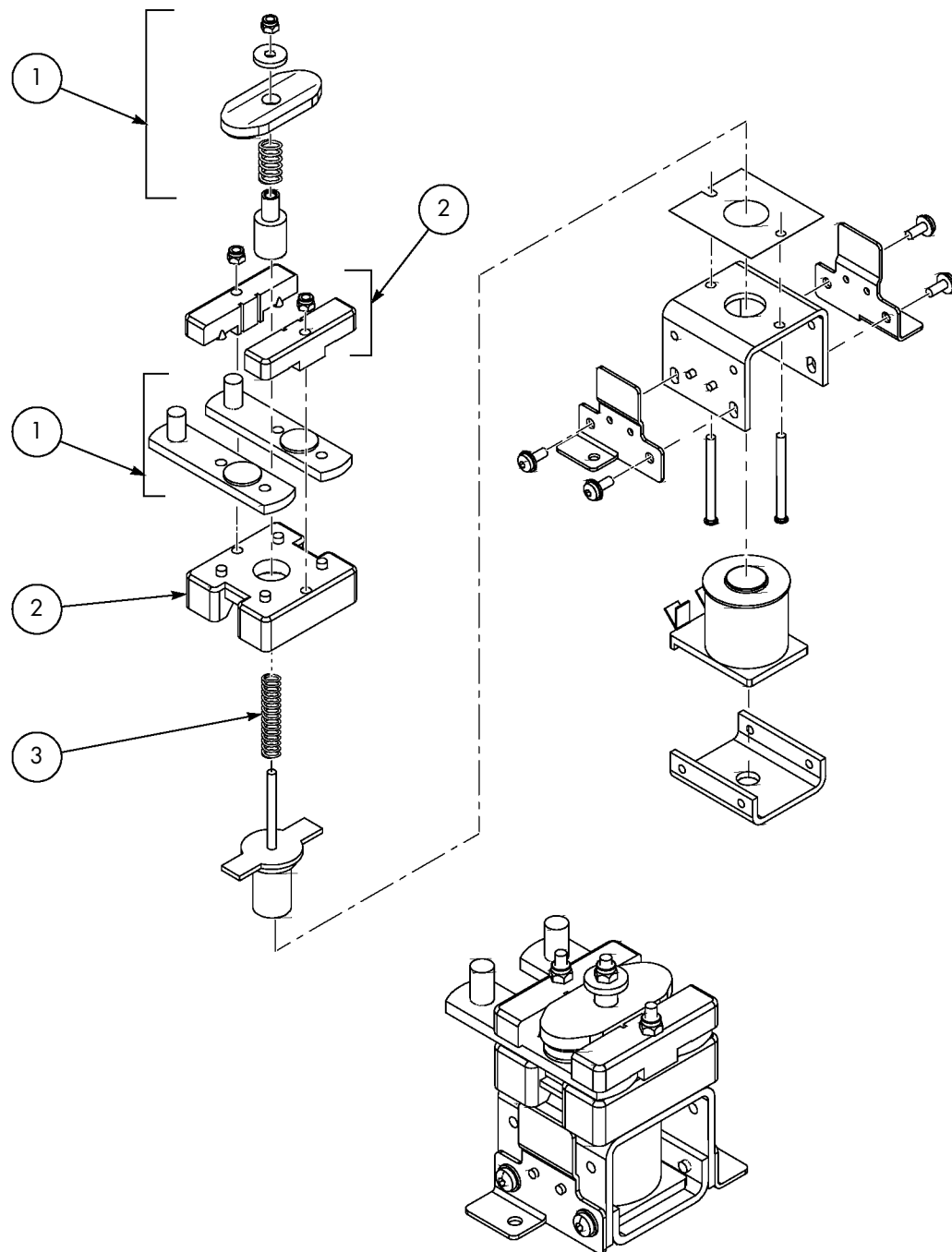
O114-021-022-B

Figure 5-3: Contactor Assembly

FIGURE 5-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02718-71	Contactor Assembly	
1	1	00590-02781-71	Fuse	R
2	1	00590-02856-71	Fuse	R
3	1	00590-02921-71	Fuse Holder	
4	1	00590-02987-71	Contactor	
5	2	00590-03032-71	Screw	
6	2	00590-03093-71	Nut	
7	3	00590-03132-71	Insulator, Standoff	
8	1	00590-03182-71	Fuse	R
10	1	00590-03386-71	Bar, Bus	
11	1	00590-03384-71	Panel, Contactor	
12	7	00590-00568-71	Washer, Flat	
13	4	00590-02840-71	Washer, Lock	
14	7	00590-03435-71	Nut	
15	5	00590-03079-71	Fastener, Self-Clinching	
16	2	00590-03011-71	Fastener, Self-Clinching	
17	4	00590-03092-71	Washer, Flat	
18	2	00590-02851-71	Washer, Lock	
19	4	00590-03584-71	Nut	
20	12	00590-05283-71	Decal, Label	
21	2	00590-03469-71	Insulator, Standoff	
22	2	00590-03447-71	Fuse, 6 Amp	R
23	3	00590-00552-71	Fuse, 15 Amp	R
R= Recommended Spare				

List 5-3: Contactor Assembly

Contactor



O1-105-129-100

Figure 5-4: Contactor

FIGURE 5-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02987-71	Contactor Assembly	
1	1	00590-02782-71	Tip Kit, Contactor	R
2	1	00590-02857-71	Kit, Guide and Insulator	R
3	1	00590-02922-71	Spring, Main	
R= Recommended Spare				

List 5-4: Contactor

This exploded view diagram illustrates the assembly of a device. The components are numbered as follows:

- 1**: Main base plate or chassis.
- 2**: Top cover or housing.
- 3**: Small vertical pin or post.
- 4**: Small vertical pin or post.
- 5**: Small vertical pin or post.
- 6**: Small vertical pin or post.
- 7**: Small vertical pin or post.
- 8**: Small vertical pin or post.
- 9**: Small vertical pin or post.
- 10**: Small vertical pin or post.
- 11**: Small vertical pin or post.
- 12**: Small vertical pin or post.
- 13**: Small vertical pin or post.
- 14**: Small vertical pin or post.
- 15**: Small vertical pin or post.
- 16**: Small vertical pin or post.
- 17**: Small vertical pin or post.

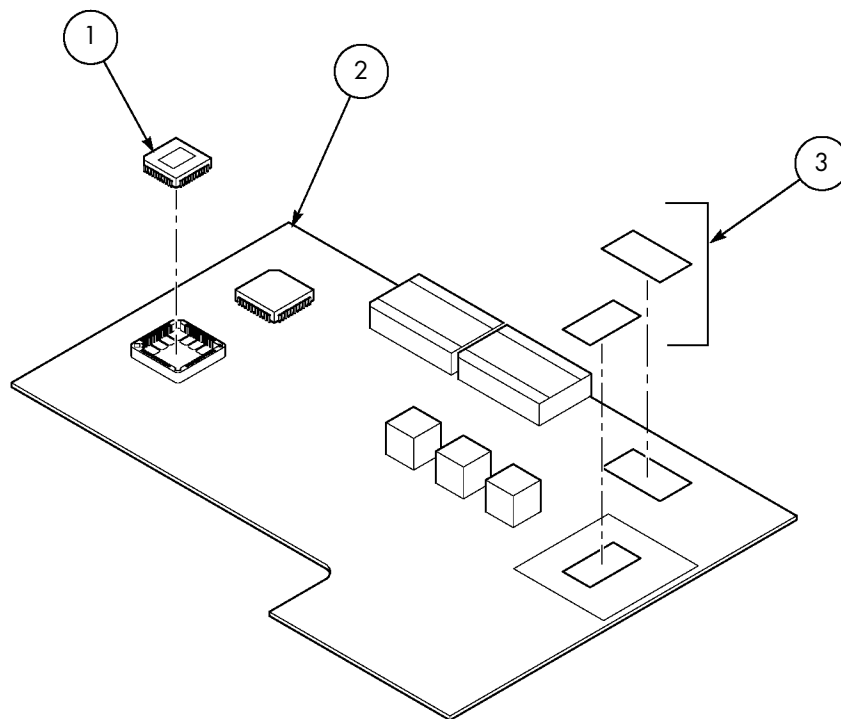
The diagram shows the relative positions and alignment of these components, with dashed lines indicating the assembly path.

O114-009-731-M

FIGURE 5-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-03633-71	Steer Control Assembly, Toyota Tracker	A, R
		00590-03634-71	Steer Control Assembly, Toyota Tracker	B, R
1	1	00590-47111-71	Heatsink	
2	1	00590-41815-71	Cover	
3	5	00590-02923-71	Spacer, Hex	
4	4	00590-02988-71	Spacer, Hex	A
5	10	00590-03032-71	Screw	
6	1	00590-47112-71	Card Assembly, Steer Manager	
7	1	00590-03133-71	Card Assembly, Filter	A
9	1	00590-03219-71	Decal, Label	
10	4	00590-03245-71	Transistor, Power	
11	8	00590-03434-71	Screw	
13	1	00590-46427-71	Installation, Firmware, Steer Controller	
14	1	00590-02914-71	Decal	
17	1	00590-39786-71	Decal, Toyota Tracker	
A= With Wire Guidance B= Without Wire Guidance R= Recommended Spare				

List 5-5: Steer Control Assembly, Toyota Tracker

Display, Controller



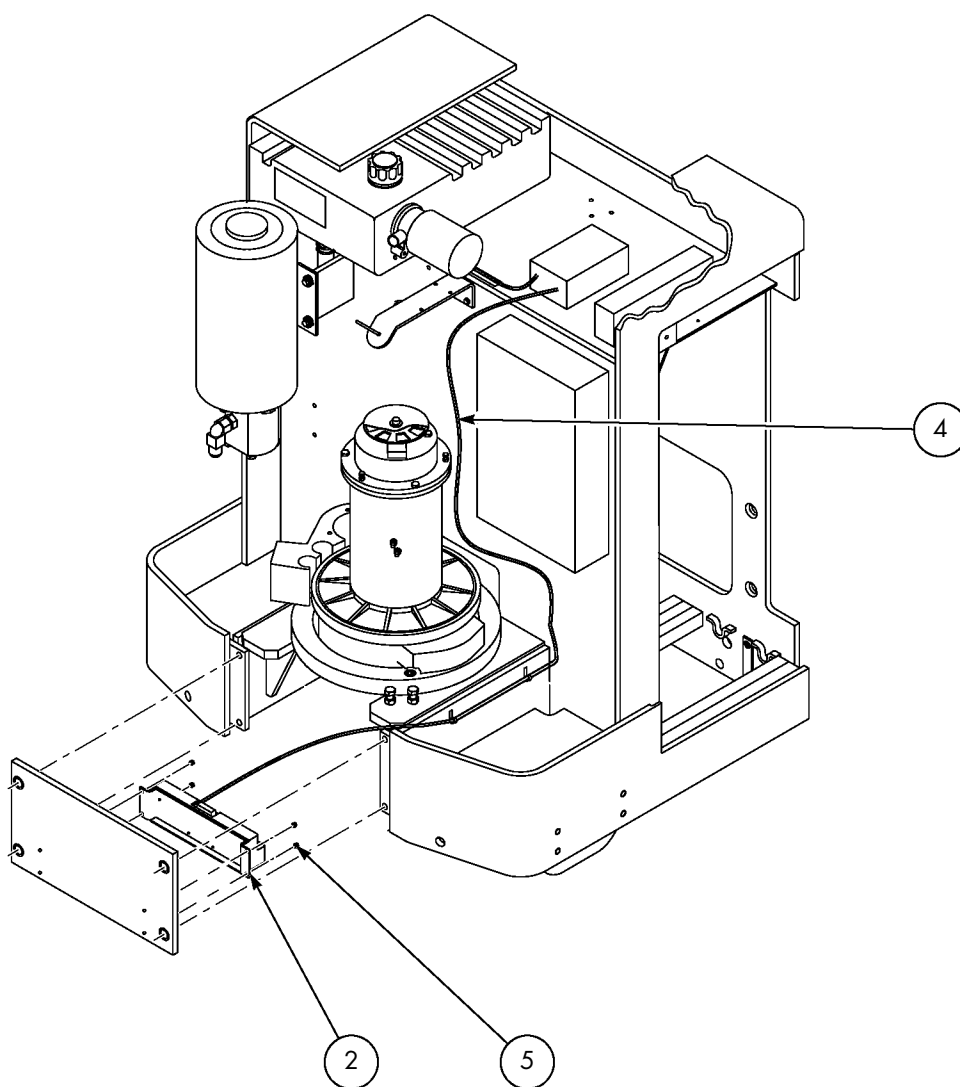
O114-021-072-G

Figure 5-6: Display, Controller

FIGURE 5-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-46660-71	Module, WSI (Firmware)	R
2	1	00590-47113-71	Card Assembly, Display Controller	R
3	2	00590-02914-71	Decal	
R= Recommended Spare				

List 5-6: Display, Controller

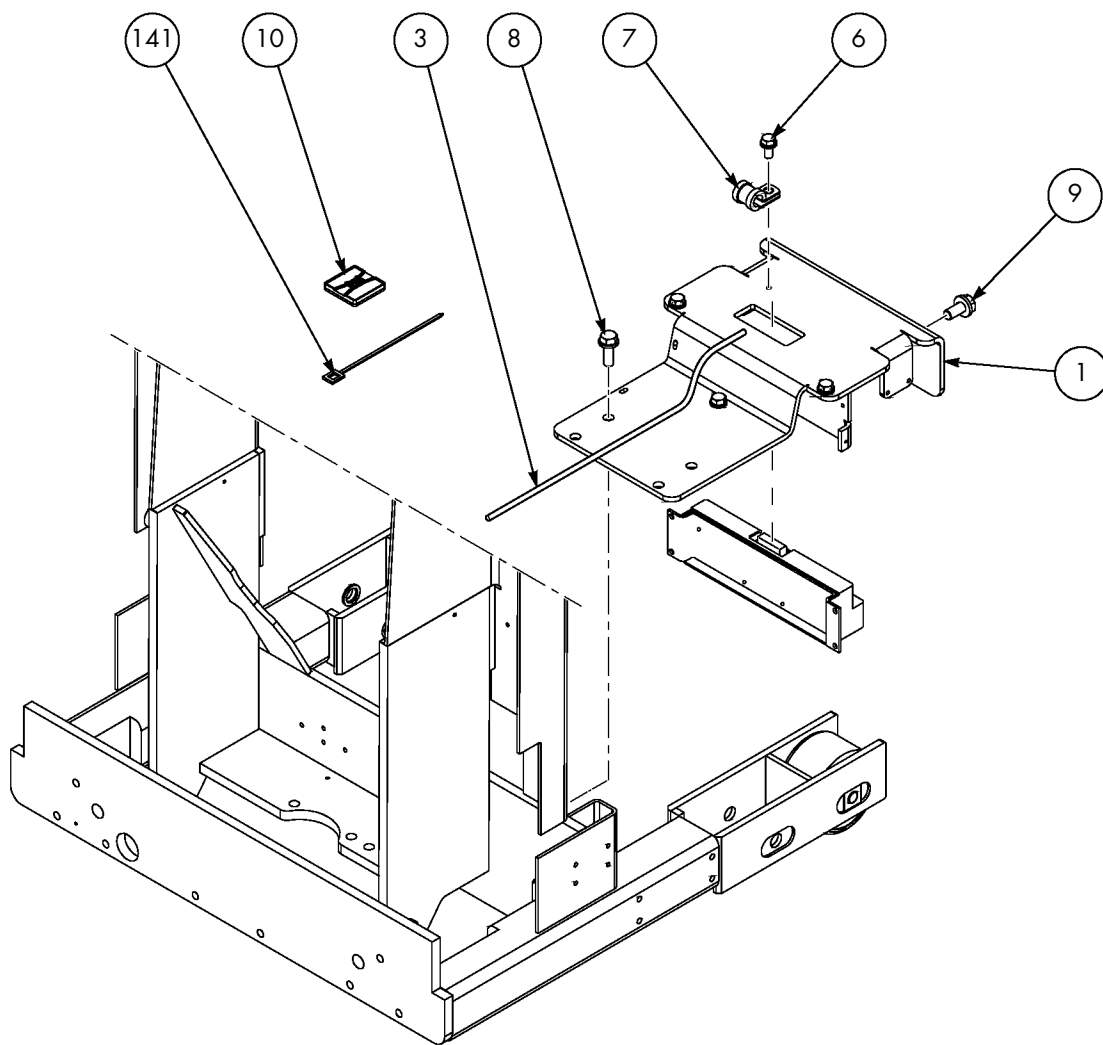
Wire Guide Installation



O114-022-032-A1 SHT 1 OF 2

Figure 5-7a: Wire Guide Installation

Wire Guide Installation



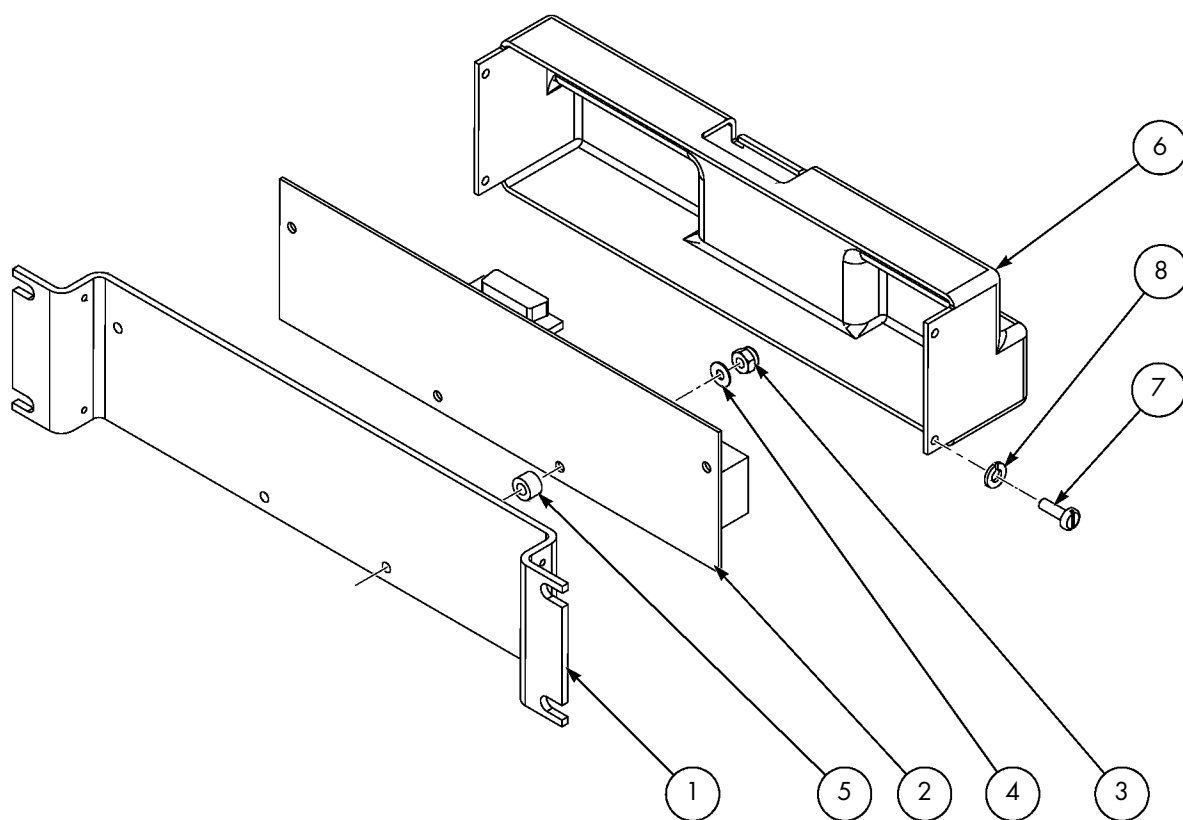
O114-022-032-A2 SHT 2 OF 2

Figure 5-7b: Wire Guide Installation

FIGURE 5-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02772-71	Wire Guidance Sensor, Lead End (See Figure 5-9.)	
2	1	00590-02842-71	Wire Guidance Sensor, Tractor End (See Figure 5-8.)	
3	1	00590-02911-71	Cable Assembly	
4	1	00590-02978-71	Cable, Antenna Tractor	
5	4	00590-03085-71	Screw	
6	7	00590-03591-71	Screw	
7	7	00590-03174-71	Clamp, Cushioned Loop	
8	4	00590-03175-71	Screw	
9	2	00590-03113-71	Screw	
10	2	00590-03458-71	Ty-Clamp	
11	5	00590-00556-71	Cable Tie	
13	1	00590-03538-71	Line Driver, 5.20 kHz (Not Shown)	
14	1	00590-47114-71	Line Driver, 6.25 kHz (Not Shown)	

List 5-7: Wire Guide Installation

Wire Guidance Sensor, Tractor End



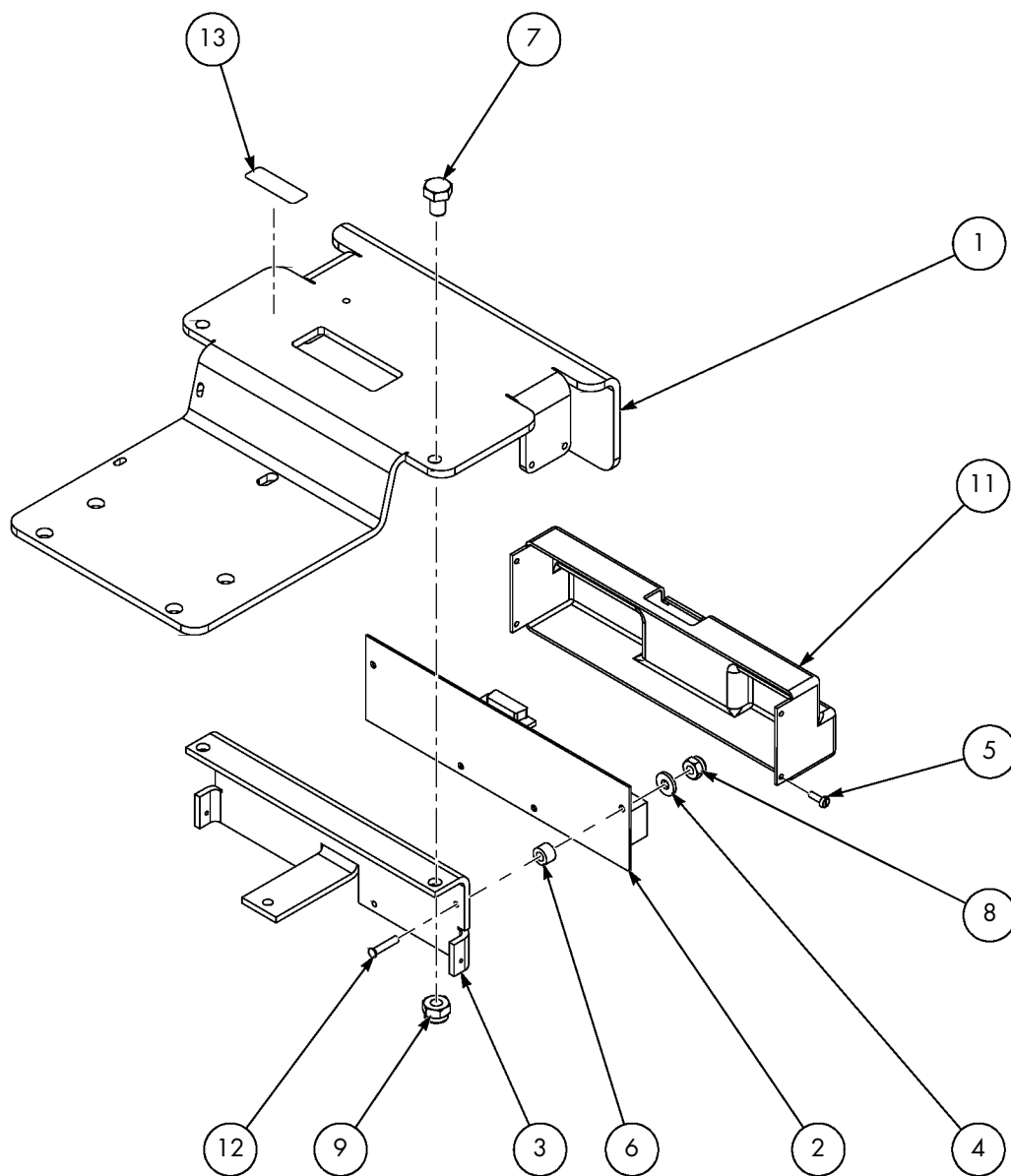
O114-008-621

Figure 5-8: Wire Guidance Sensor, Tractor End

FIGURE 5-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02842-71	Wire Guidance Sensor, Tractor End	
1	1	00590-47115-71	Plate Assembly	
2	1	00590-02843-71	Card Assembly, Wire Guidance	R
3	4	00590-02912-71	Nut	
4	4	00590-02979-71	Washer, Flat	
5	4	00590-03026-71	Spacer	
6	1	00590-03086-71	Housing, Sensor, Wire Guidance	
7	4	00590-03125-71	Screw	
8	4	00590-44567-71	Washer, Lock	
R= Recommended Spare				

List 5-8: Wire Guidance Sensor, Tractor End

Wire Guidance Sensor, Load End



O114018-025

Figure 5-9: Wire Guidance Sensor, Load End

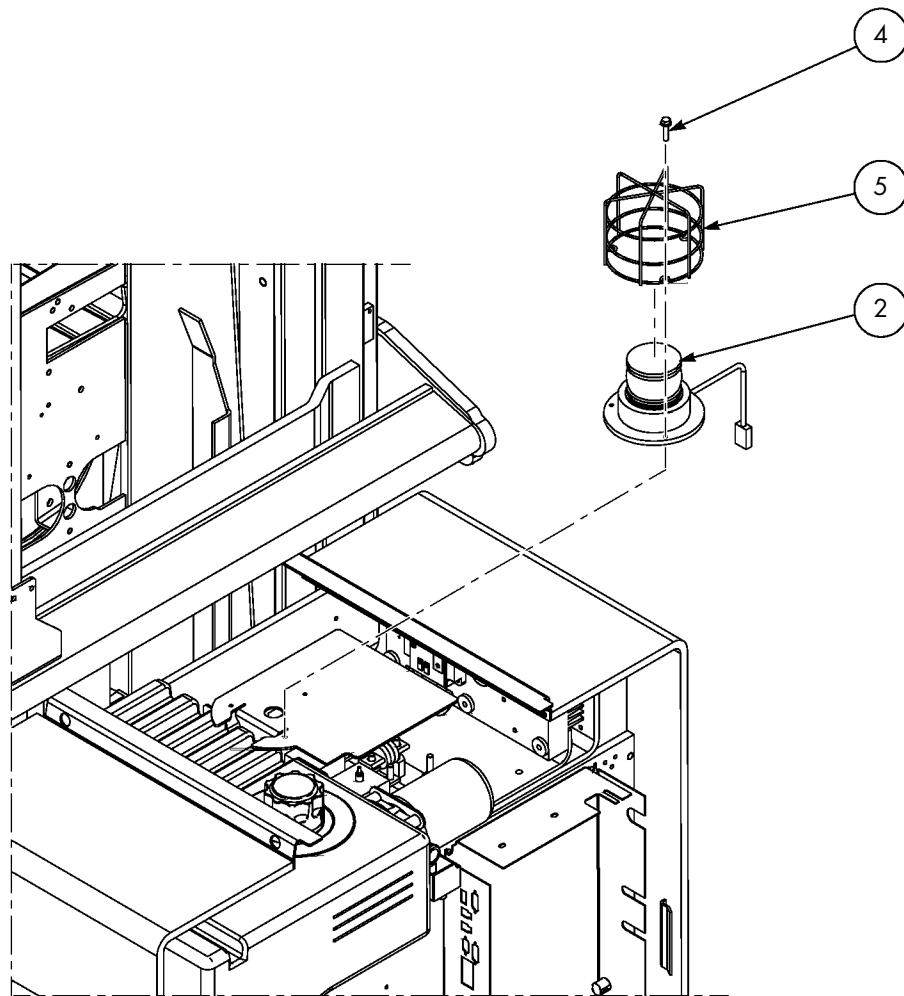
Wire Guidance Sensor, Load End

FIGURE 5-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02772-71	Wire Guidance Sensor, Load End	
1	1	00590-02774-71	Bracket, Sensor Mounting	
2	1	00590-02843-71	Card Assembly, Wire Guidance	R
3	1	00590-02913-71	Plate, Mounting	
4	4	00590-02979-71	Washer, Flat	
5	2	00590-03125-71	Screw	
6	4	00590-03026-71	Spacer	
7	3	00590-03127-71	Screw	
8	4	00590-02912-71	Nut	
9	2	00590-45932-71	Nut	
11	1	00590-03086-71	Housing, Sensor, Wire Guidance	
12	4	00590-03436-71	Fastener, Self-Clinching	
13	1	00590-03035-71	Decal, Label	
R= Recommended Spare				

List 5-9: Wire Guidance Sensor, Load End

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Warning Light Installation



O114-008-583-C

Figure 5-10: Warning Light Installation

FIGURE 5-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	1	00590-02859-71	Warning Light Assembly, Amber	
	1	00590-02860-71	Warning Light Assembly, Red	
	1	00590-02861-71	Warning Light Assembly, Blue	
	1	00590-02862-71	Warning Light Assembly, Clear	
4	3	00590-02989-71	Screw	
5	1	00590-03034-71	Guard, Warning Light	

List 5-10: Warning Light Installation

Warning Light Assembly

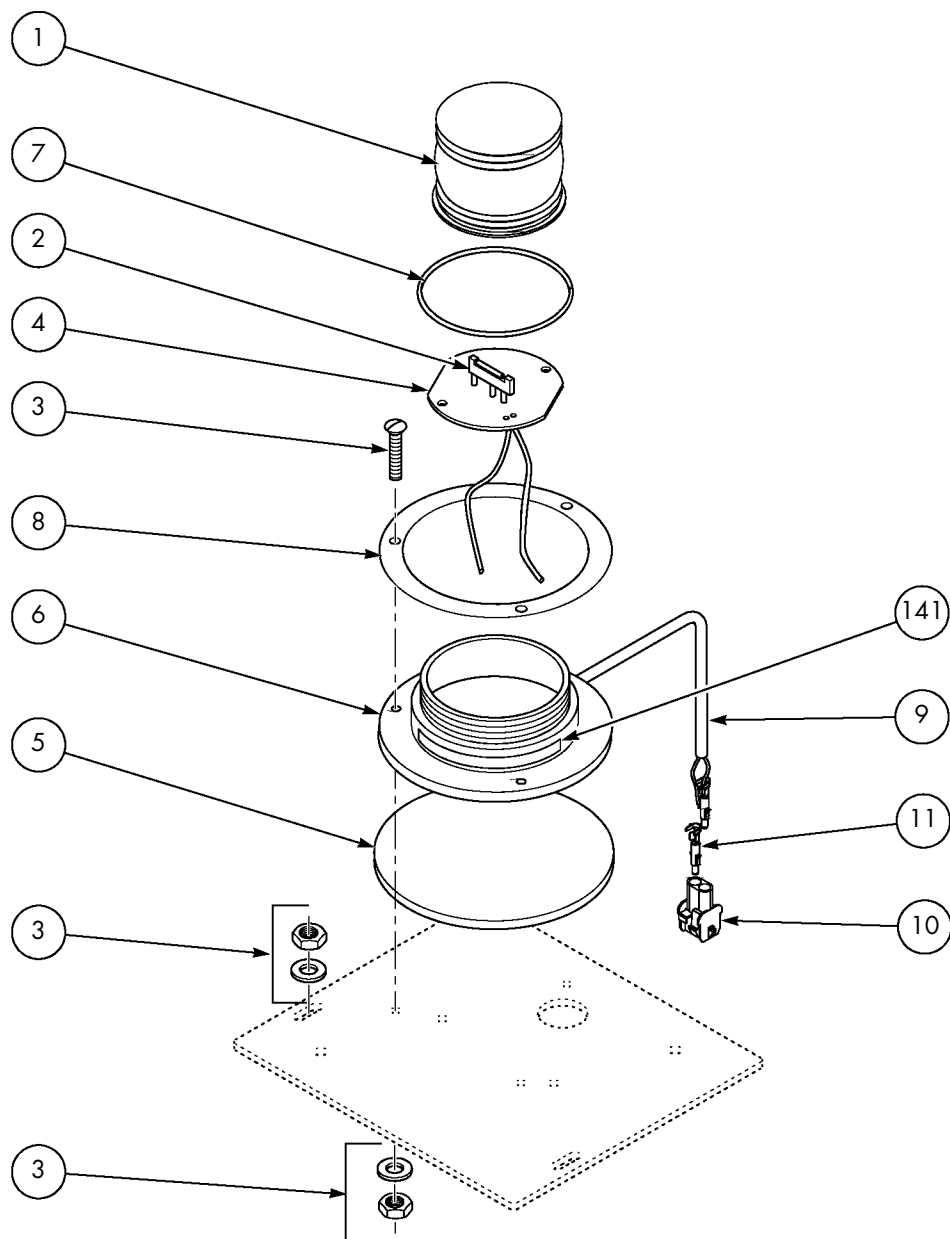


Figure 5-11: Warning Light Assembly

O114-007-671-TOY

Warning Light Assembly

FIGURE 5-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02784-71	Warning Lamp Assembly (Red) (includes:)	A
	1	00590-39789-71	Lens, Red	
	1	00590-02785-71	Warning Lamp Assembly (Amber) (includes:)	B, R
	1	00590-05266-71	Lens, Amber	
	1	00590-02786-71	Warning Lamp Assembly (Blue) (includes:)	C
	1	00590-05268-71	Lens, Blue	
	1	00590-05184-71	Warning Lamp Assembly (Clear) (includes:)	D
	1	00590-39792-71	Lens, Clear	
2	1	00590-05273-71	Bulb	R
3	1	00590-39794-71	Hardware Kit	R
4	1	00590-39795-71	Multivoltage Card Assembly	
5	1	00590-39796-71	Pad, Foam, Mounting	
6	1	00590-39797-71	Base, Mounting	
7	1	00590-39798-71	O-Ring	R
8	1	00590-39799-71	Ring, Strobe	
9	AR	00590-00128-71	Shrink Tubing	
	AR	00590-00187-71	Insulator	
10	1	00590-00183-71	Connector	
11	2	00590-00182-71	Pin (min. order - 50)	
12	1	00590-05283-71	Decal	
13	1	00590-41840-71	Bracket, Light (Not Shown) (See Figure 2-1.)	
14	1	00590-40838-71	Harness, Wiring (P10 to J10) (Not Shown)	
A= Red B= Amber C= Blue D= Clear R= Recommended Spare				

List 5-11: Warning Light Assembly

Battery Connector Assembly

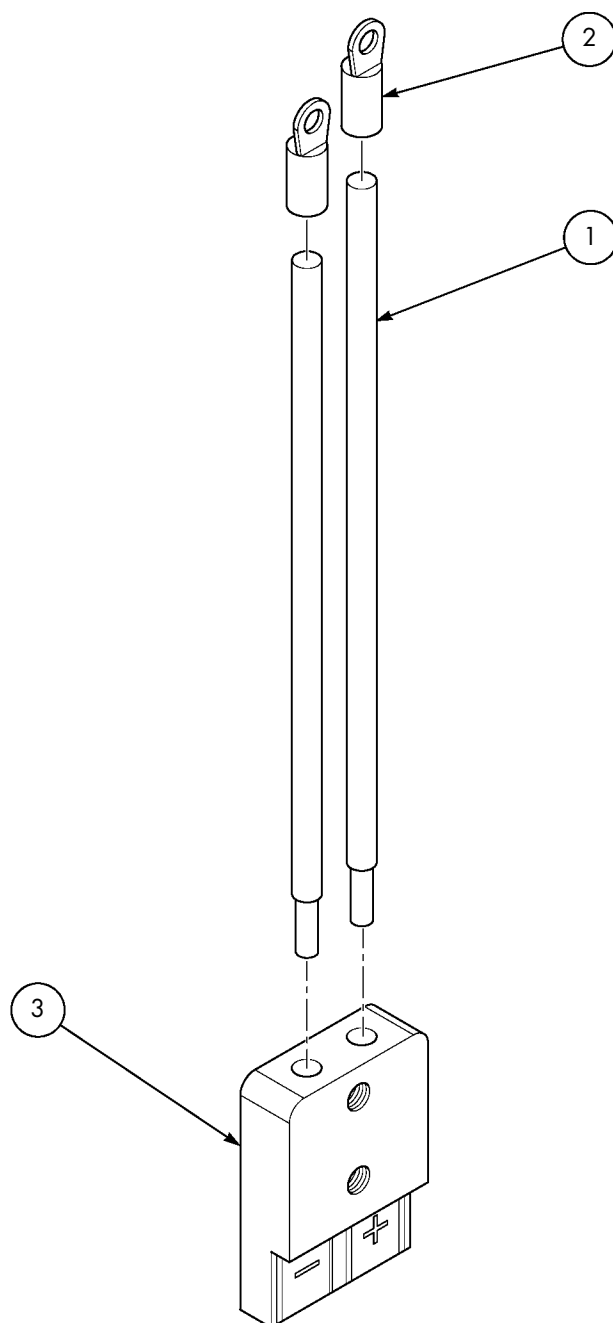


Figure 5-12: Battery Connector Assembly

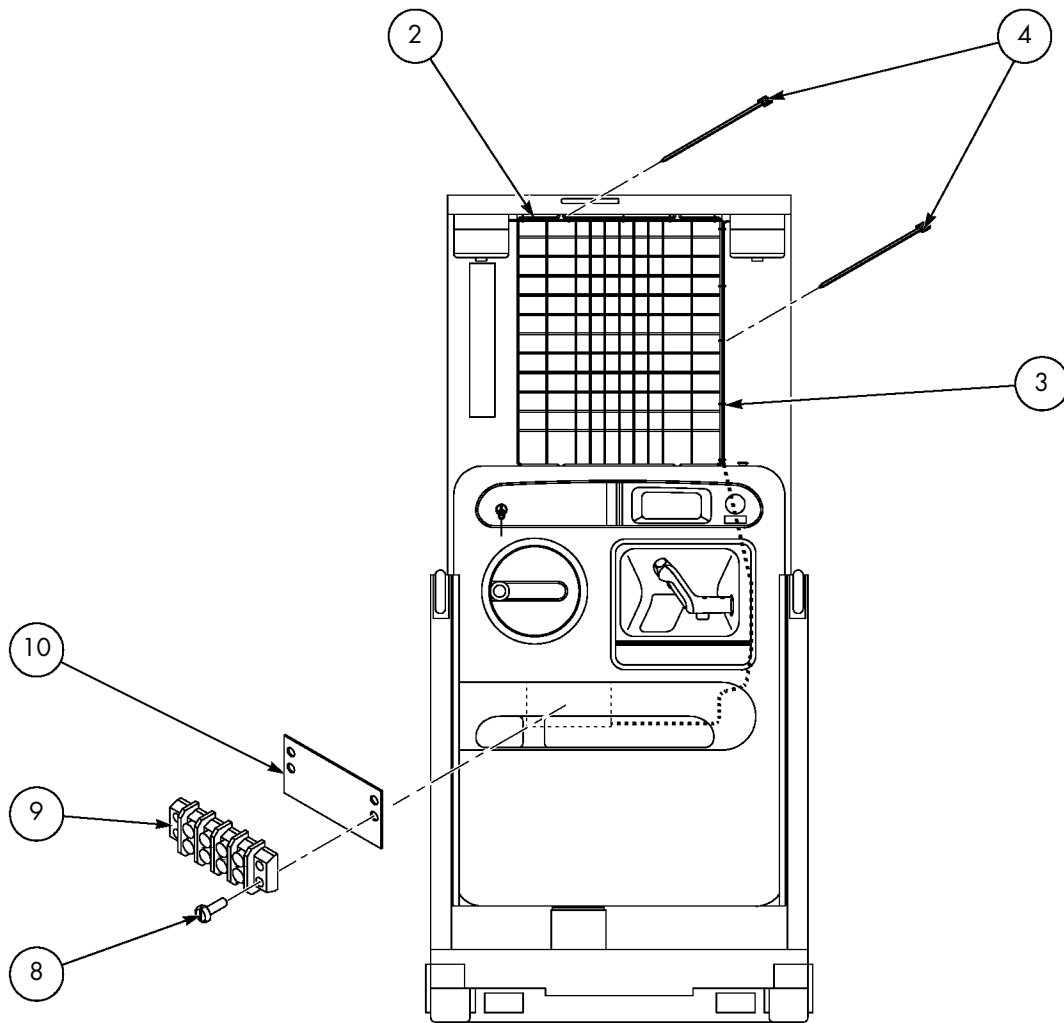
O114018-020C

FIGURE 5-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02720-71	Battery Connector Assembly	
1	AR	00590-47116-71	Cable, Bulk (100 ft. Qty)	
2	2	00590-02990-71	Terminal	
3	1	00590-02863-71	Connector, Battery, Gray	
4	2	00590-02924-71	Bushing (Not Shown)	

List 5-12: Battery Connector Assembly

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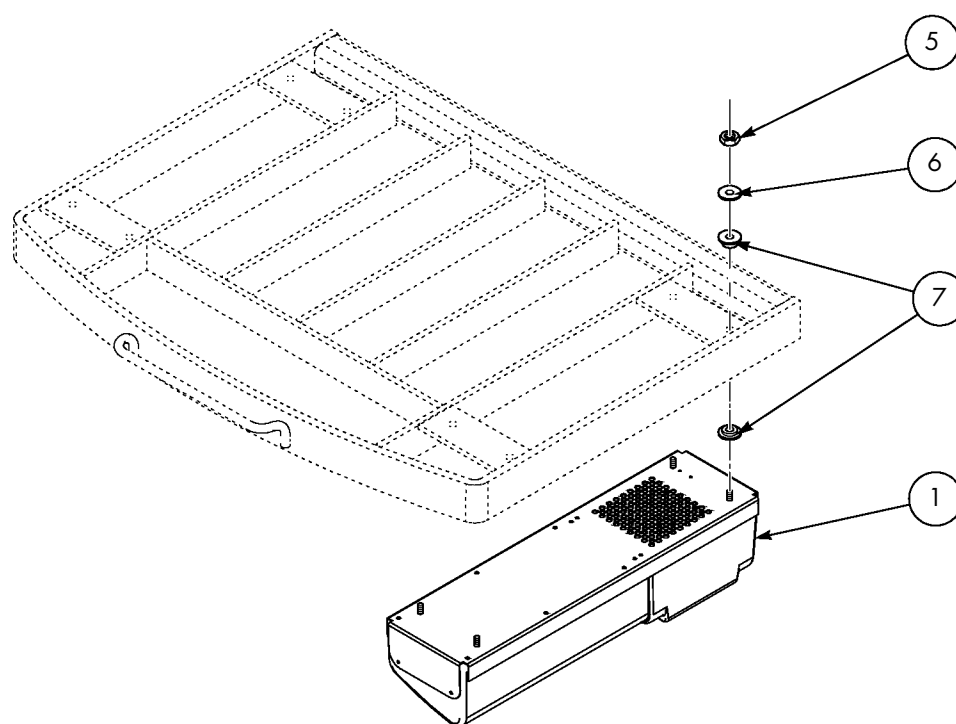
Operator Compartment Lights and Fan, Standard



O114010-353-F1 SHT 1 OF 2

Figure 5-13a: Operator Compartment Lights and Fan, Standard

Operator Compartment Lights and Fan, Standard



O114010-353-F2 SHT 2 OF 2

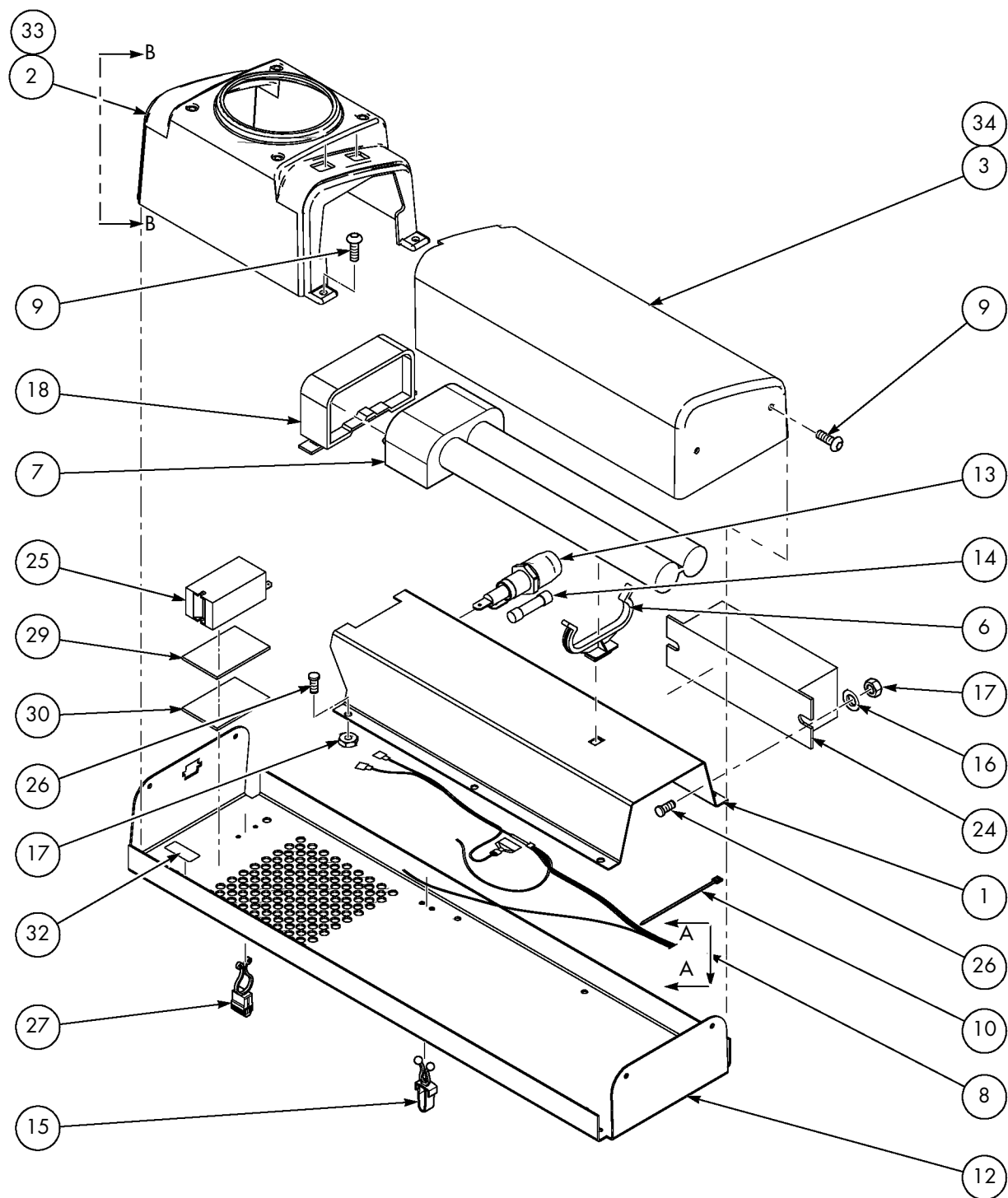
Figure 5-13b: Operator Compartment Lights and Fan, Standard

Operator Compartment Lights and Fan, Standard

FIGURE 5-13 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-39646-71	Lights and Fan Installation, Standard	
		00590-39800-71	Lights and Fan Installation, Cold Storage	
1	1	00590-39641-71	Light Assembly, Fluorescent, Right-Hand, Standard (See Figure 5-14a.)	
	1	00590-39642-71	Light Assembly, Fluorescent, Left-Hand, Standard (See Figure 5-14a.)	
	1	00590-39801-71	Light Assembly, Incandescent, Right-Hand, C.S. (See Figure 5-15a.)	
	1	00590-39802-71	Light Assembly, Incandescent, Left-Hand, C.S. (See Figure 5-15a.)	
2	1	00590-02864-71	Cable Assembly, Left-Hand, Light and Fan (TS12-3 - TS12-1)	
	1	00590-02865-71	Cable Assembly, Left-Hand, Light and Fan (TS12-3 - TS12-1)	A
	1	00590-39803-71	Cable Assembly, Left-Hand, Light and Fan (JC5-2 - JC5-1)	
	1	00590-39804-71	Cable Assembly, Left-Hand, Light and Fan (JC5-2 - JC5-1)	A
3	1	00590-02925-71	Cable Assembly, Right-Hand, Light and Fan (TS12-3 - TS12-1)	
	1	00590-02926-71	Cable Assembly, Right-Hand, Light and Fan (TS12-3 - TS12-1)	A
	1	00590-39805-71	Cable Assembly, Right-Hand, Light and Fan (JC5-4 - JC5-3)	
	1	00590-39806-71	Cable Assembly, Right-Hand, Light and Fan (JC5-4 - JC5-3)	A
4	10	00590-00811-71	Cable Tie	
5	8	00590-03036-71	Nut	
	8	00590-03037-71	Nut, Lock	
6	8	00590-00568-71	Washer, Flat	
7	16	00590-03134-71	Spacer, Shock, Mounting	
8	2	00590-03125-71	Screw	
9	1	00590-03220-71	Strip, Terminal, Marker	
10	1	00590-03241-71	Strip, Terminal, Marker	
A= Extended Overhead Guard Height (Item 2 - 97 in., Item 3 - 77 in. long)				

List 5-13: Operator Compartment Lights and Fan, Standard

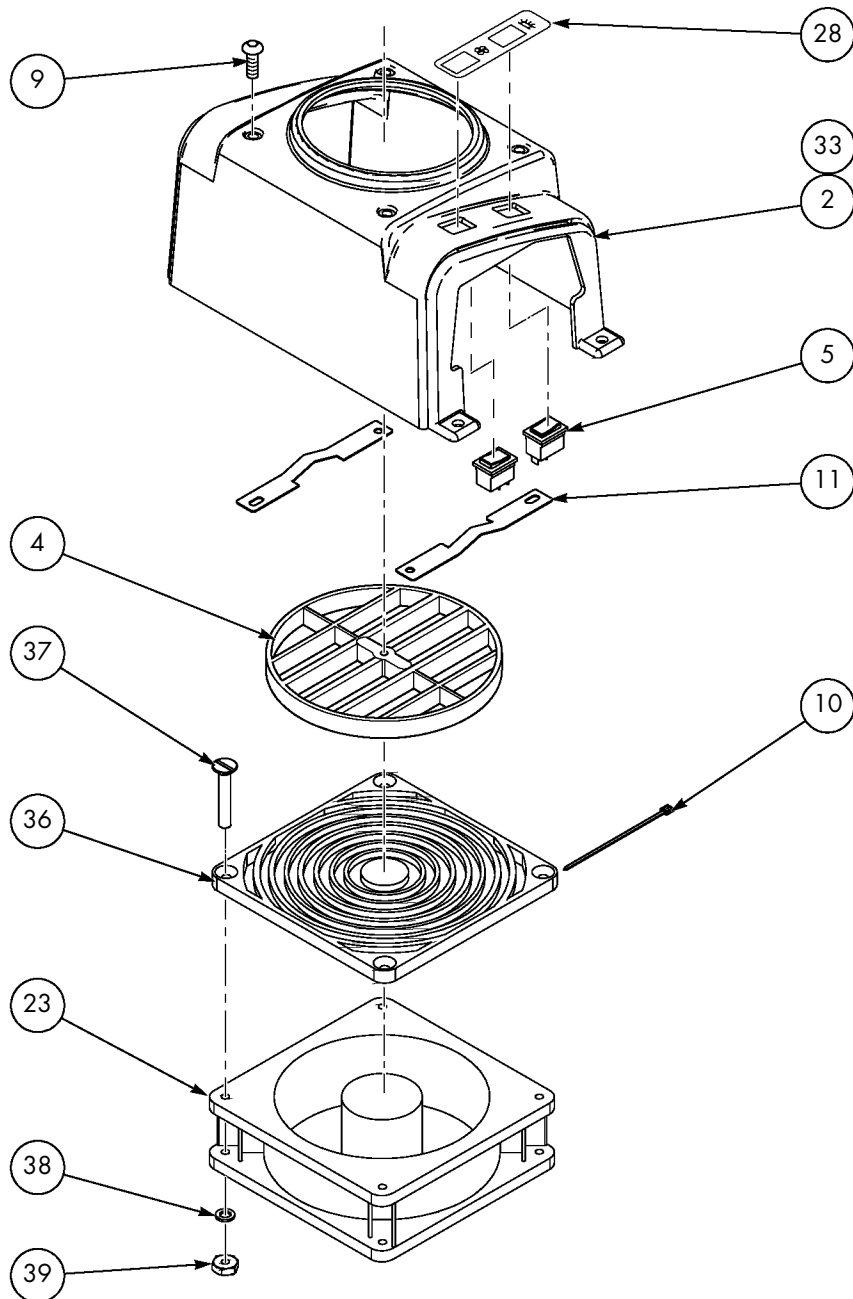
Light and Fan Assembly, Fluorescent



O114-021-084J1 SHT 1 OF 3

Figure 5-14a: Light and Fan Assembly, Fluorescent

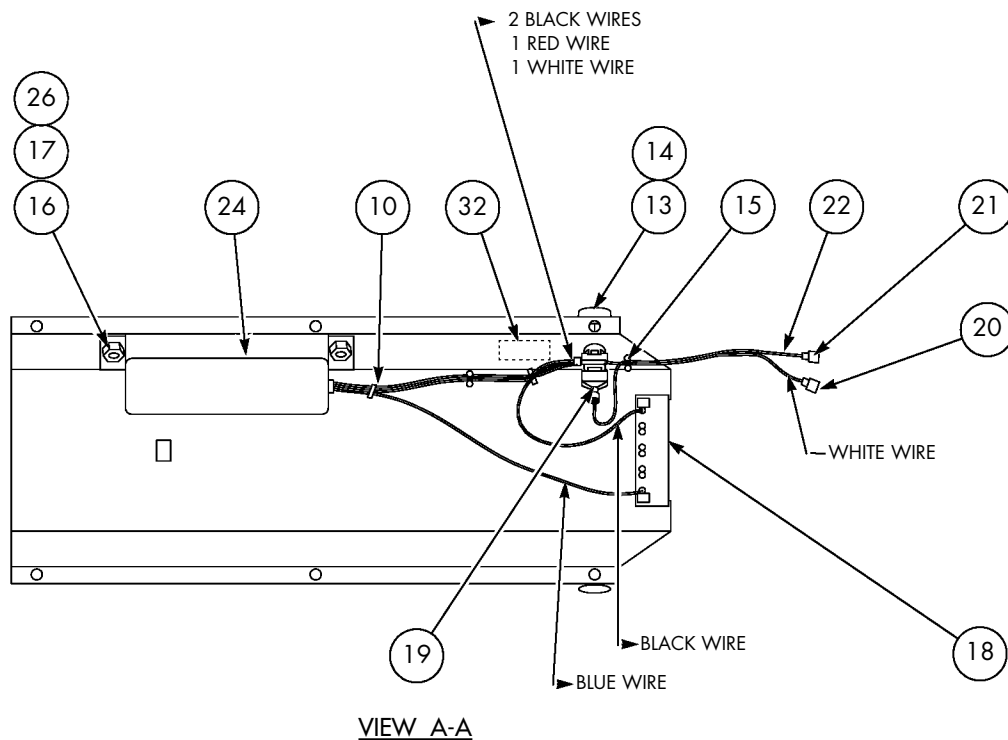
Light and Fan Assembly, Fluorescent



O114-021-084J2 SHT 2 OF 3

Figure 5-14b: Light and Fan Assembly, Fluorescent

Light and Fan Assembly, Fluorescent



SCHEMATIC

O114-021-084J3 SHT 3 OF 3

Figure 5-14c: Light and Fan Assembly, Fluorescent

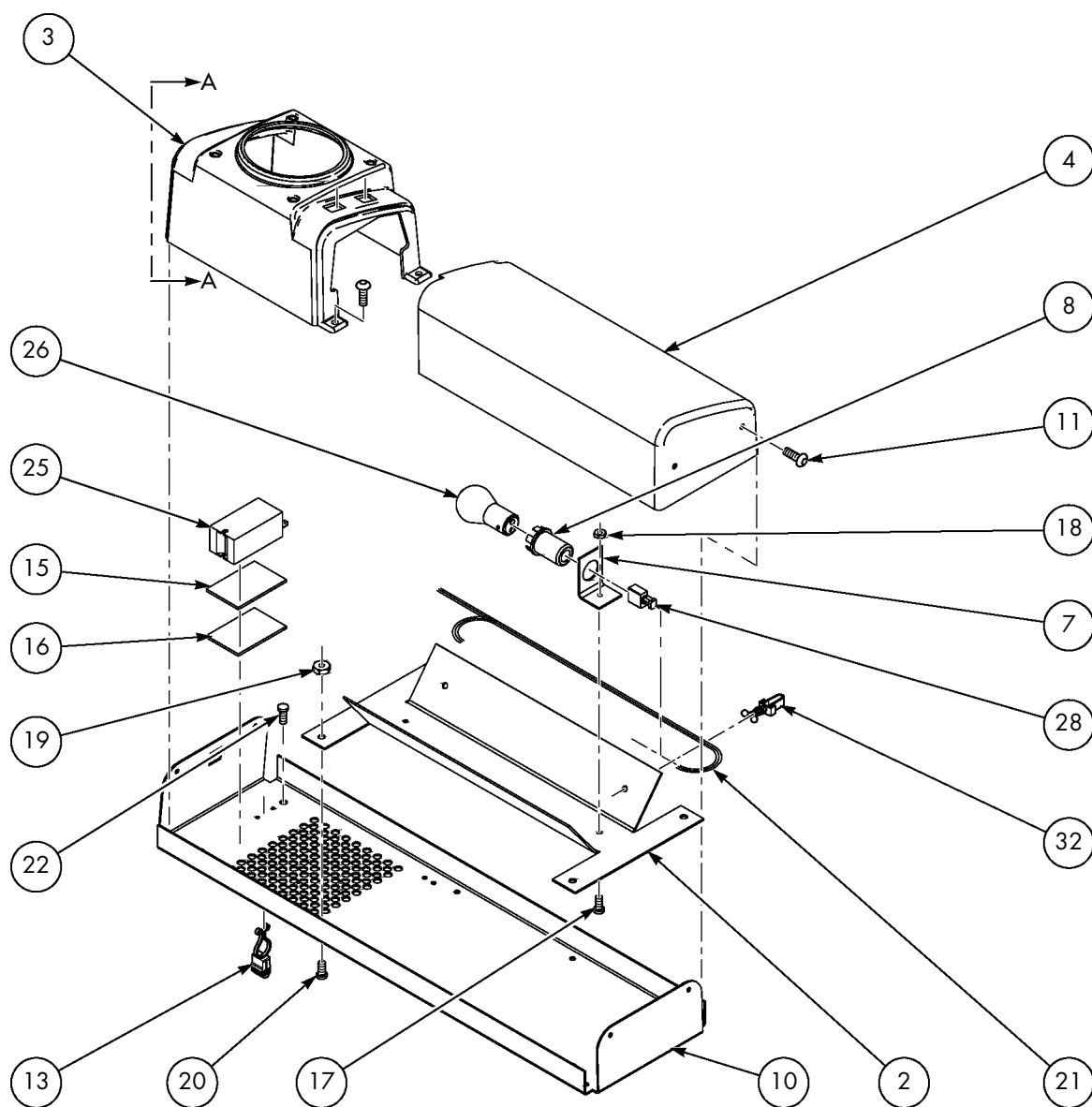
Light and Fan Assembly, Fluorescent

FIGURE 5-14 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-39641-71	Light and Fan Assembly (Fluorescent), Right-Hand	
		00590-39642-71	Light and Fan Assembly (Fluorescent), Left-Hand	
1	1	00590-02866-71	Cover, Reflector, Lamp	
2	1	00590-39807-71	Housing, Fan, Right-Hand	
3	1	00590-39640-71	Lens, Light, Right-Hand	
4	1	00590-03038-71	Deflector, Air	
5	2	00590-03095-71	Switch, Rocker	R
6	1	00590-03135-71	Lamp, Support, Fluorescent	
7	1	00590-03183-71	Lamp, Fluorescent	
8	1	00590-03221-71	Harness Wiring, Light/Fan	
9	10	00590-03471-71	Screw	
10	3	00590-00811-71	Cable Tie	
11	2	00590-03382-71	Spring, Leaf	
12	1	00590-39808-71	Plate, Base	
13	1	00590-03448-71	Holder, Fuse	
14	1	00590-03446-71	Fuse	R
15	1	00590-03456-71	Support	
16	2	00590-02401-71	Washer, Flat	
17	8	00590-03477-71	Nut	
18	1	00590-03453-71	Holder, Lamp, Fluorescent	
19	1	00590-03237-71	Terminal	
20	1	00590-03238-71	Terminal	
21	1	00590-02399-71	Terminal	
22	.6	00590-00186-71	Wire	
23	1	00590-03450-71	Blower, Electric	
24	1	00590-03452-71	Ballast, Light	
25	1	00590-40862-71	Module Assembly, Suppressor, 24 Volt	
26	12	00590-03544-71	Stud, Self-Clinching	
27	2	00590-03457-71	Support, Wire Twistlock	
28	1	00590-39809-71	Decal, Fan/Light	
29	.1	00590-00571-71	Latch, Flexible	
30	.1	00590-00570-71	Latch, Flexible	
32	1	00590-05283-71	Decal, Label	
33	1	00590-39810-71	Housing, Fan, Left-Hand	
34	1	00590-39639-71	Lens, Light, Left-Hand	
36	1	00590-39811-71	Guard, Fan	
37	3	00590-39812-71	Screw	
38	3	00590-39813-71	Washer	
39	3	00590-03476-71	Nut	
R= Recommended Spare				

List 5-14: Light and Fan Assembly, Fluorescent

Light and Fan Assembly, Incandescent

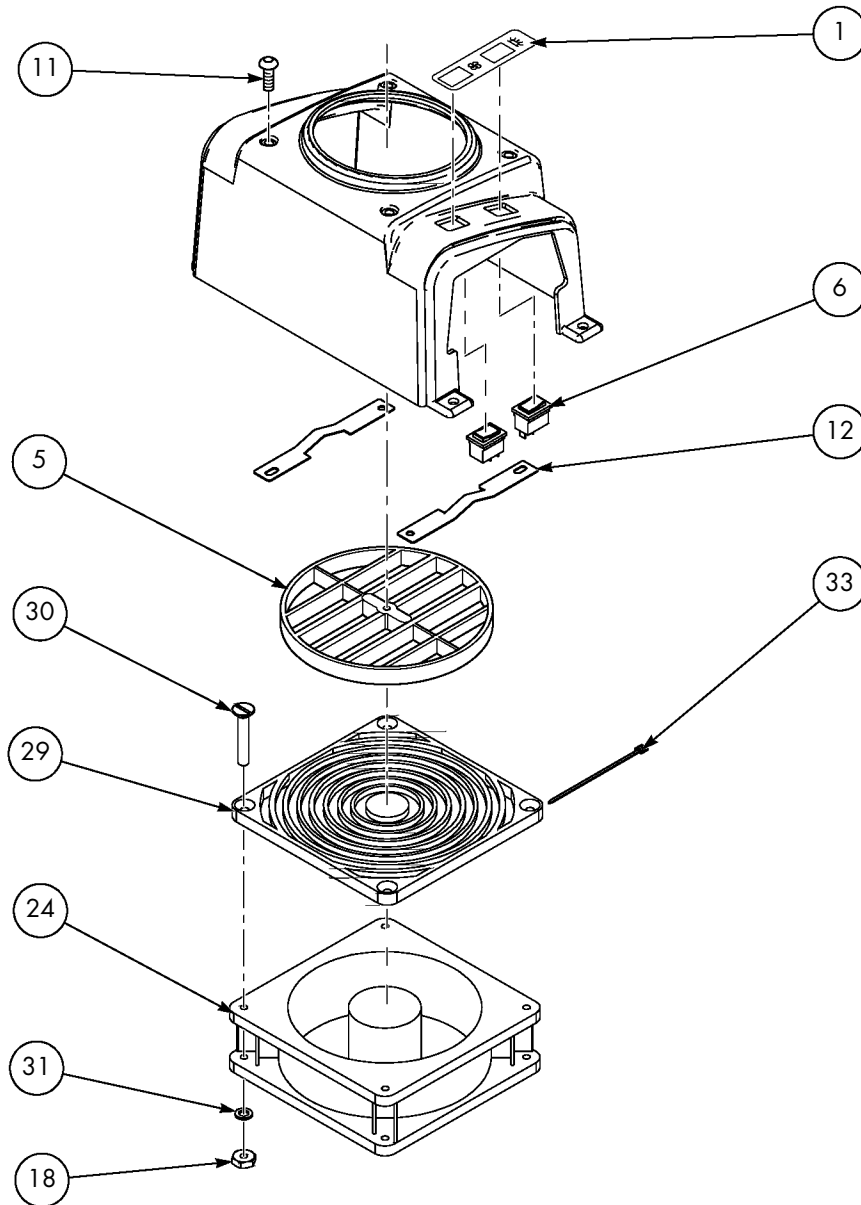
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O114021-093-F1 SHT 1 OF 3

Figure 5-15a: Light and Fan Assembly, Incandescent

Light and Fan Assembly, Incandescent

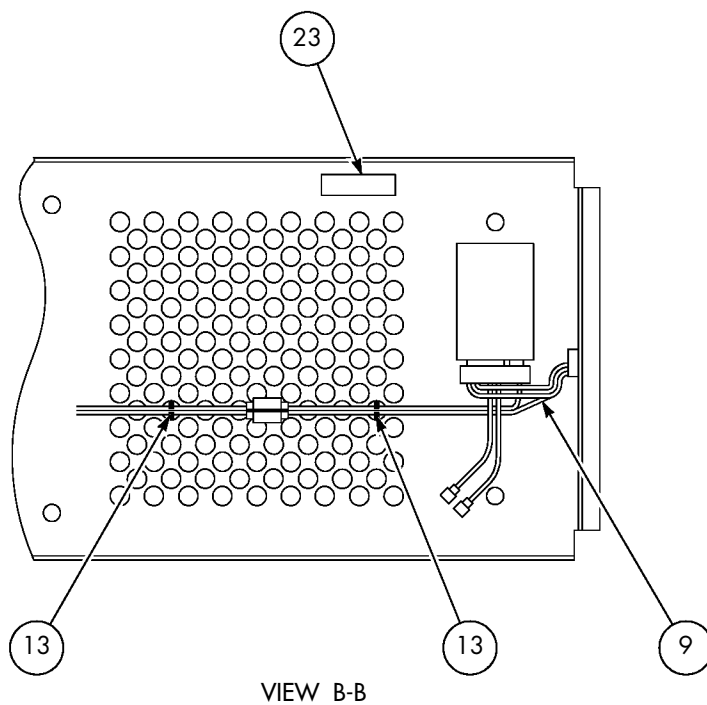


VIEW A-A

O114021-093-F2 SHT 2 OF 3

Figure 5-15b: Light and Fan Assembly, Incandescent

Light and Fan Assembly, Incandescent



SCHEMATIC

O114021-093-F3 SHT 3 OF 3

Figure 5-15c: Light and Fan Assembly, Incandescent

FIGURE 5-15 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-39801-71	Light & Fan Assembly (Incandescent), Right-Hand	
		00590-39802-71	Light & Fan Assembly (Incandescent), Left-Hand	
1	1	00590-39809-71	Decal, Fan/Light	
2	1	00590-02867-71	Bracket	
3	1	00590-39810-71	Housing, Fan, Left-Hand	
	1	00590-39807-71	Housing, Fan, Right-Hand	
4	1	00590-39639-71	Lens, Light, Left-Hand	
	1	00590-39640-71	Lens, Light, Right-Hand	
5	1	00590-03038-71	Deflector, Air	
6	2	00590-03095-71	Switch, Rocker	R
7	2	00590-03136-71	Bracket, Light	
8	2	00590-03184-71	Socket, Bulb	
9	1	00590-03221-71	Harness, Light & Fan	
10	1	00590-03283-71	Plate, Base	
11	10	00590-03471-71	Screw	
12	2	00590-03382-71	Spring, Leaf	
13	2	00590-03457-71	Support Wire, Twist Lock	
15	0.1	00590-00571-71	Latch, Flexible, (Dual lock type 400)	
16	0.1	00590-00570-71	Latch, Flexible, (Dual lock type 170)	
17	2	00590-03543-71	Stud, Self-Clinching	
18	2	00590-03476-71	Nut	
19	4	00590-00180-71	Nut	
20	4	00590-03544-71	Stud	
21	1	00590-03281-71	Harness, Wiring	
22	4	00590-03546-71	Stud, Self-Clinching	
23	1	00590-05283-71	Decal, Label	
24	1	00590-03450-71	Blower, Electric	
25	1	00590-40862-71	Module Assembly, Suppressor 24V	
26	2	00590-03451-71	Bulb, Light	R
28	4	00590-03238-71	Terminal	
29	1	00590-39811-71	Guard, Fan	
30	3	00590-39812-71	Screw	
31	3	00590-39813-71	Washer	
32	2	00590-03456-71	Support Wire, Twist Lock	
33	1	00590-00811-71	Cable Tie	
R= Recommended Spare				

List 5-15: Light and Fan Assembly, Incandescent

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Bin Lights Installation

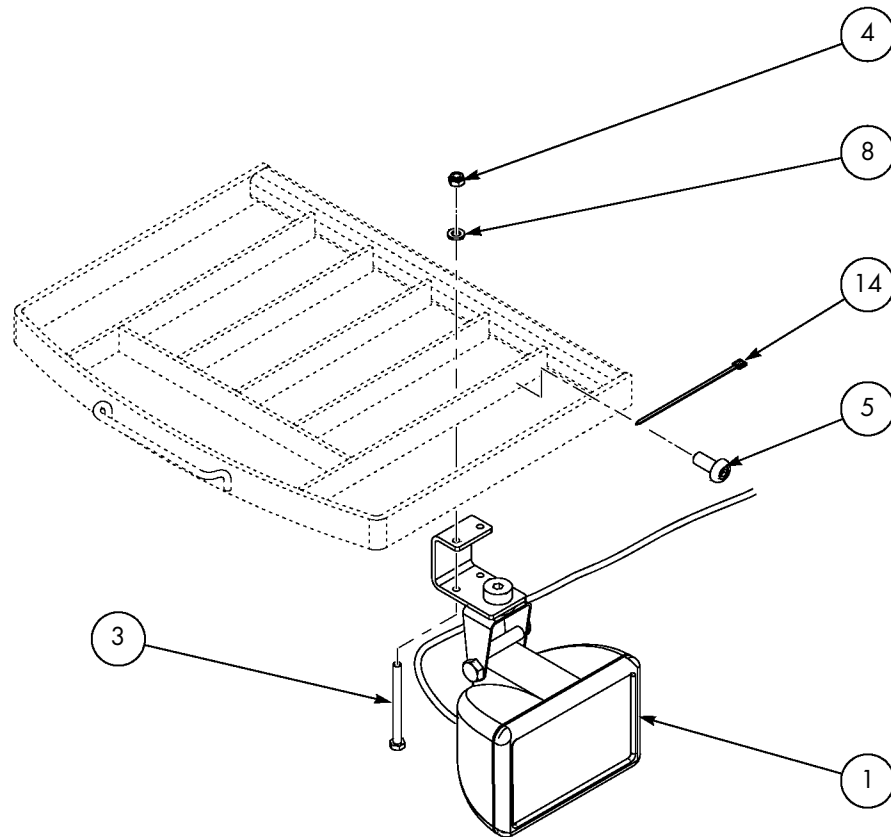
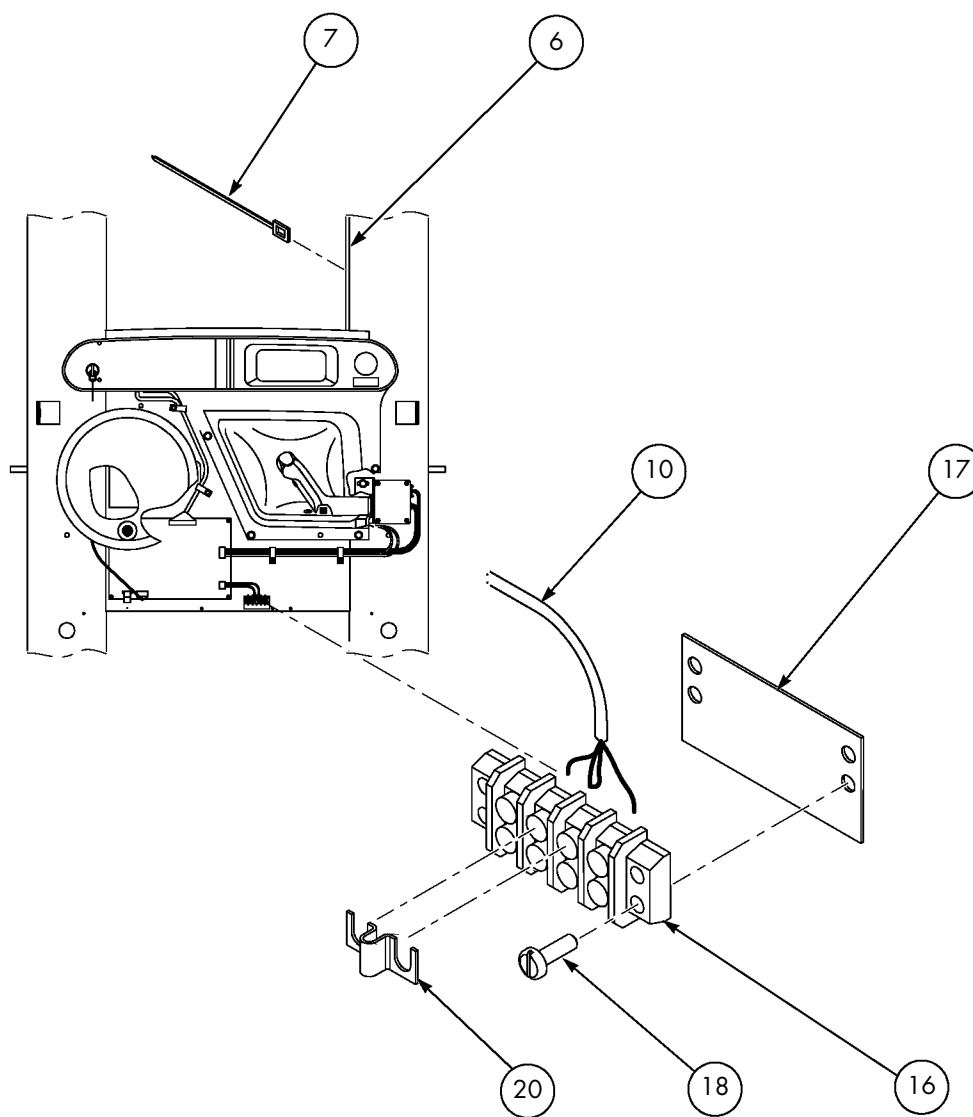


Figure 5-16a: Bin Lights Installation

O114-021-016-C1 SHT 1 OF 2

Bin Lights Installation



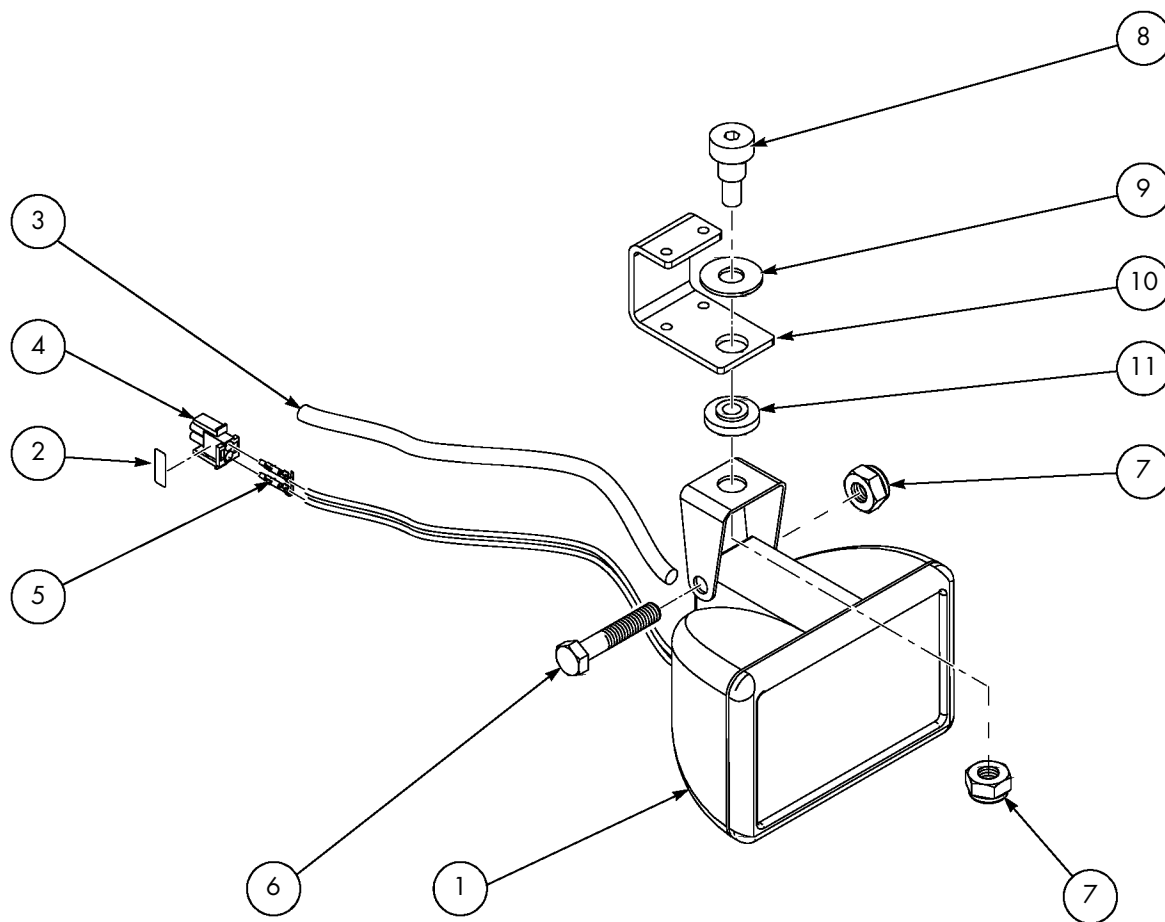
O114-021-016-C2 SHT 2 OF 2

Figure 5-16b: Bin Lights Installation

FIGURE 5-16 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02722-71	Light, Bin Assembly, Right-Hand (See Figure 5-17.)	
	1	00590-02723-71	Light, Bin Assembly, Left-Hand (Not Shown)	
3	4	00590-02929-71	Screw	
4	4	00590-02992-71	Nut	
5	3	00590-02706-71	Screw	
6	1	00590-47117-71	Cable Assembly	
7	8	00590-00556-71	Cable Tie	
8	4	00590-03092-71	Washer, Flat	
10	1	00590-03099-71	Harness, Wiring	A
14	3	00590-03458-71	Cable Tie	
16	1	00590-02994-71	Strip, Terminal, Marker	A
17	1	00590-03042-71	Strip, Terminal, Marker	A
18	2	00590-03125-71	Screw	A
20	1	00590-02793-71	Jumper	
A= Without Power Hookup				

List 5-16: Bin Lights Installation

Bin Light Assembly



O114018-918-D

Figure 5-17: Bin Light Assembly

FIGURE 5-17 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02722-71	Light, Bin Assembly, Right-Hand	
		00590-02723-71	Light, Bin Assembly, Left-Hand	
1	1	00590-02791-71	Light, Bin (includes:)	
	1	00590-02792-71	Bulb, Light	R
2	1	00590-05283-71	Decal, Label	
3	0.6	00590-00355-71	Insulator, Tubing, Shrinkable	
4	1	00590-02993-71	Connector, Plug	
5	2	00590-03041-71	Contact, Pin	
6	1	00590-03098-71	Screw	
7	1	00590-45932-71	Nut	
8	1	00590-03204-71	Screw	
9	1	00590-00917-71	Washer	
10	1	00590-02868-71	Bracket, Light	
11	1	00590-03454-71	Spacer, Shock Mounting	
R= Recommended Spare				

List 5-17: Bin Light Assembly

Auxiliary Power Hookup

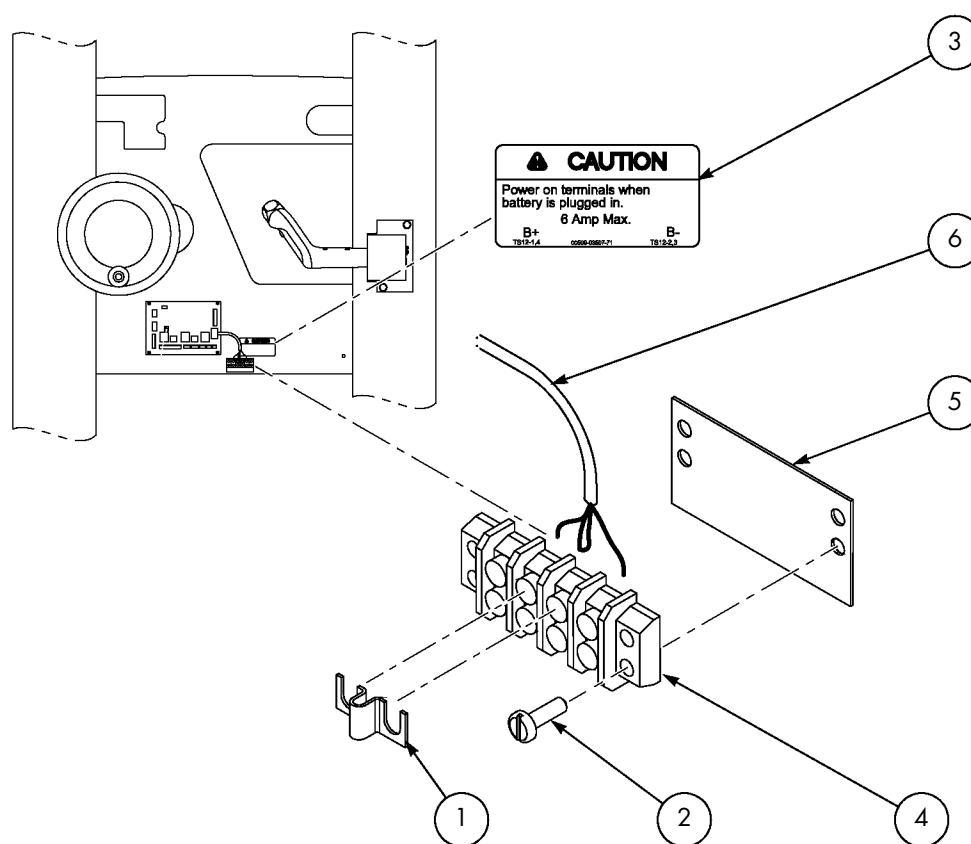


Figure 5-18: Auxiliary Power Hookup

O114-021-017-A

FIGURE 5-18 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02793-71	Jumper	
2	2	00590-03125-71	Screw	
3	1	00590-03507-71	Decal, Caution	
4	1	00590-02994-71	Strip, Terminal, Marker	
5	1	00590-03042-71	Strip, Terminal, Marker	
6	1	00590-03099-71	Harness, Wiring	

List 5-18: Auxiliary Power Hookup

Lift Limit Cutout Switch Installation

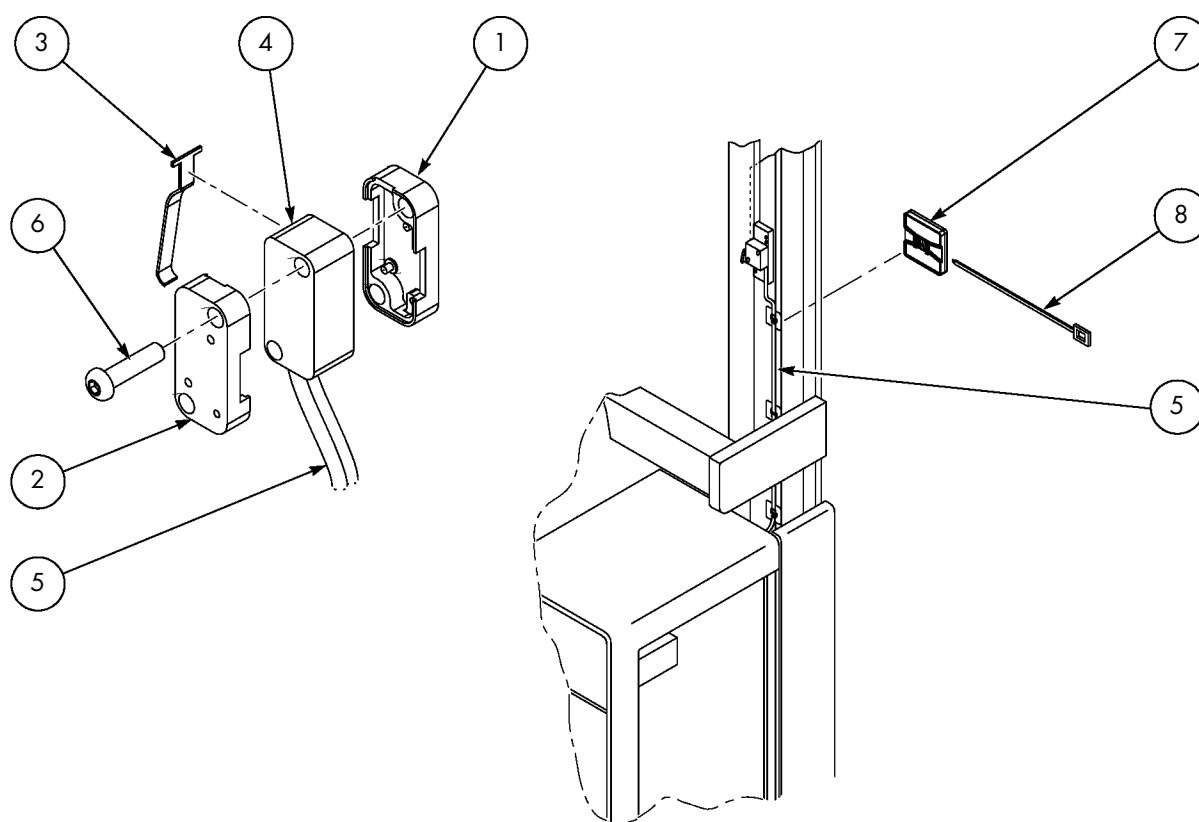


Figure 5-19: Lift Limit Cutout Switch Installation

O114-021-013-A

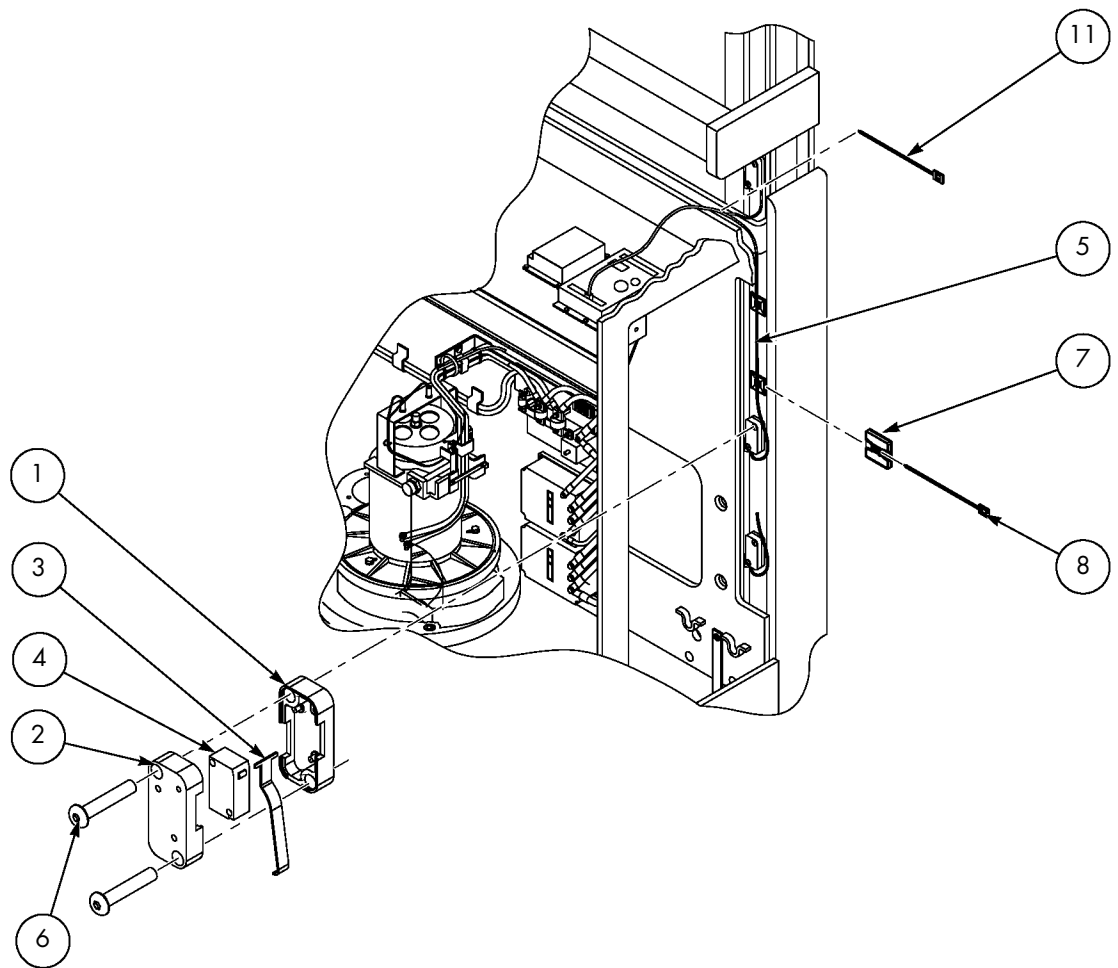
Lift Limit Cutout Switch Installation

FIGURE 5-19 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02794-71	Housing, Inner	
2	1	00590-02871-71	Housing, Outer	
3	1	00590-02931-71	Lever, Mast Limit Switch	
4	1	00590-02995-71	Switch	R
5	1	00590-03043-71	Cable Assembly	A
	1	00590-03044-71	Cable Assembly	B
	1	00590-03045-71	Cable Assembly	C
	1	00590-03046-71	Cable Assembly	D
	1	00590-03047-71	Cable Assembly	E
	1	00590-03048-71	Cable Assembly	F
	1	00590-03049-71	Cable Assembly	G
6	2	00590-03100-71	Screw	
7	AR	00590-03137-71	Anchor, Plastic Mount	
8	AR	00590-00811-71	Cable Tie	
A= OACH - 88 inches B= OACH - 95 inches C= OACH - 107 inches D= OACH - 118 inches E= OACH - 127 inches F= OACH - 132 inches G= OACH - 147 inches R= Recommended Spare				

List 5-19: Lift Limit Cutout Switch Installation

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Travel Limit Switch Installation

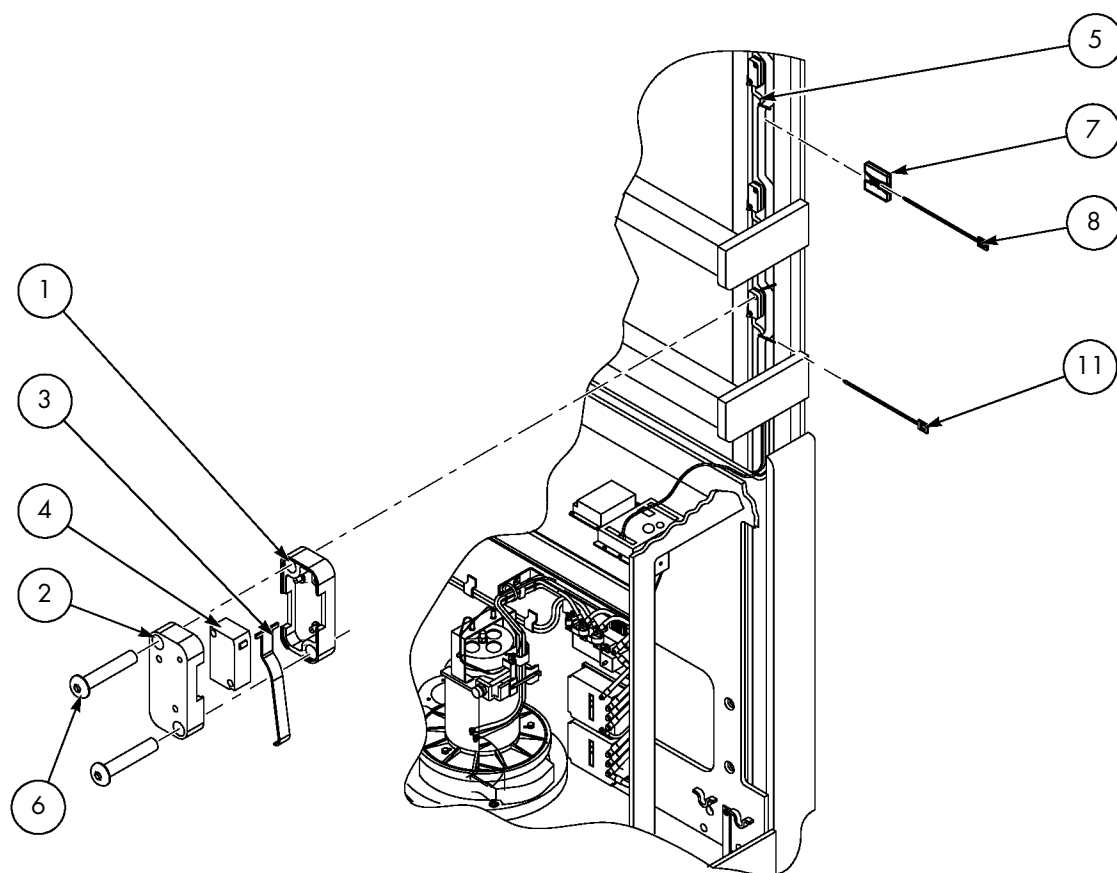


THREE STAGE

O114-021-042-C1 SHT 1 OF 2

Figure 5-20a: Travel Limit Switch Installation

Travel Limit Switch Installation



TWO STAGE

O114-021-042-C2 SHT 2 OF 2

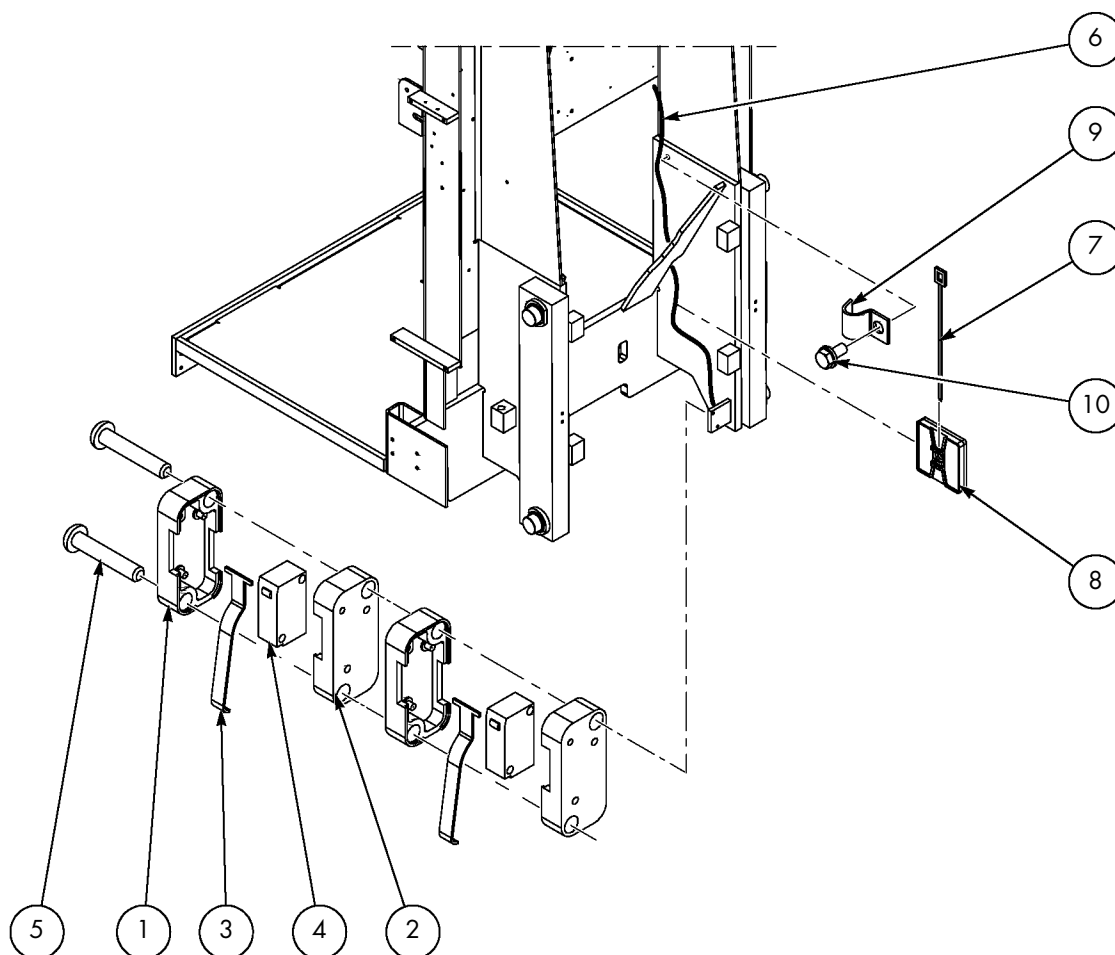
Figure 5-20b: Travel Limit Switch Installation

Travel Limit Switch Installation

FIGURE 5-20 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02794-71	Housing, Inner	
2	1	00590-02871-71	Housing, Outer	
3	1	00590-02931-71	Lever, Limit Switch	
4	1	00590-02995-71	Switch	R
5	1	00590-03050-71	Cable Assembly	A
	1	00590-03051-71	Cable Assembly	B
	1	00590-03052-71	Cable Assembly	C
	1	00590-03053-71	Cable Assembly	D, E
6	2	00590-03100-71	Screw	
7	AR	00590-03137-71	Anchor, Plastic Mount	B, C, D
8	AR	00590-00811-71	Cable Tie	B, C, D
11	AR	00590-00556-71	Cable Tie	
A= Three Stage Mast, OACH, 88 thru 95 inches B= Three Stage Mast, OACH, 96 thru 118 inches C= Three Stage Mast, OACH, 119 thru 132 inches D= Two Stage Mast, OACH, 102 inches and above E= Two Stage Mast, OACH, 88 thru 101 inches R= Recommended Spare				

List 5-20: Travel Limit Switch Installation

Lower Limit Switch



O114-021-005-B

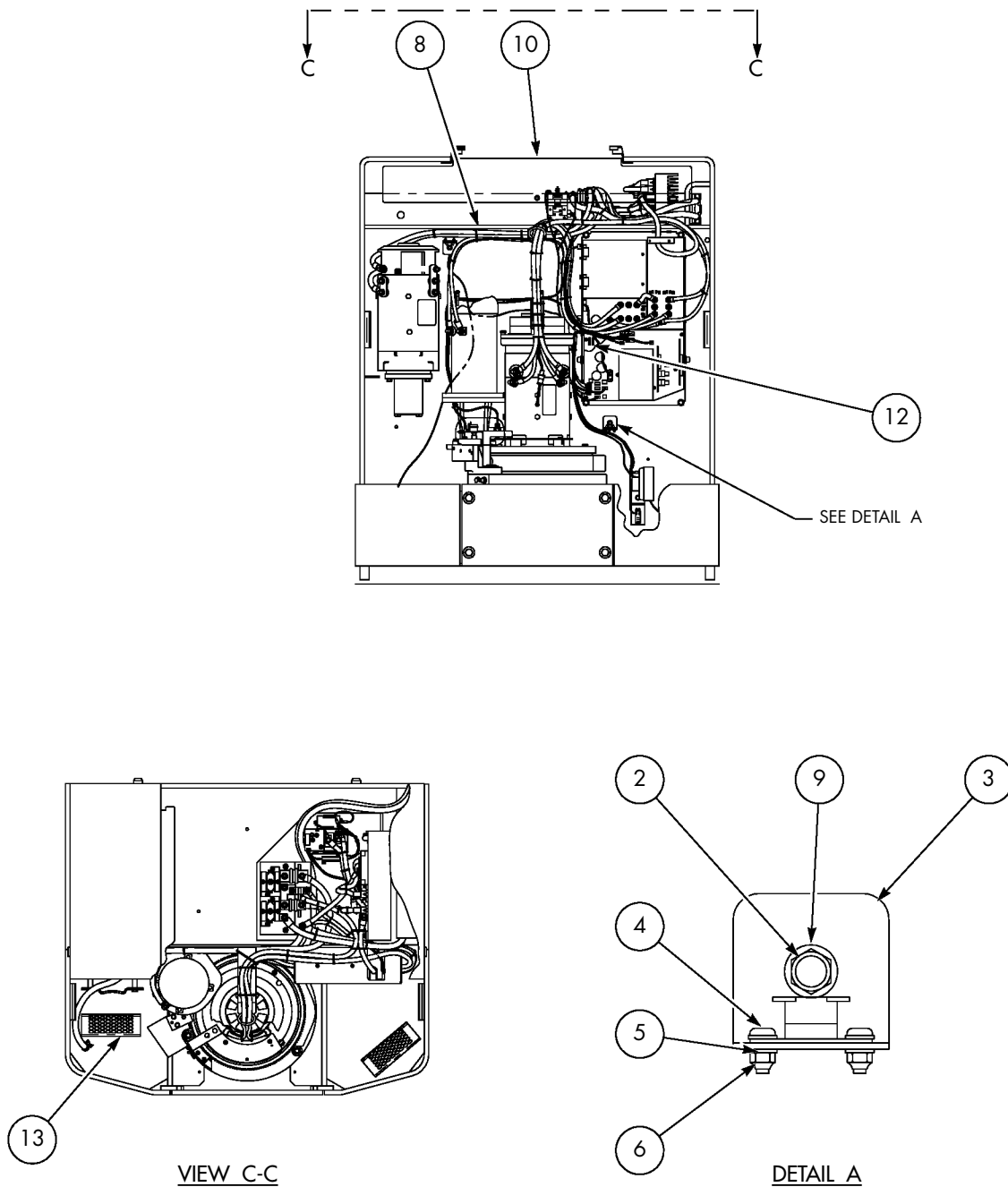
Figure 5-21: Lower Limit Switch

FIGURE 5-21 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	00590-02794-71	Housing, Inner	
2	2	00590-02871-71	Housing, Outer	
3	2	00590-02931-71	Lever	
4	2	00590-02995-71	Switch	
5	2	00590-41894-71	Screw	
6	1	00590-40595-71	Cable Assembly	
7	5	00590-00811-71	Cable Tie	
8	1	00590-00557-71	Anchor, Plastic Mount	
9	1	00590-41874-71	Tube, Clip	
10	1	00590-03085-71	Screw	

List 5-21: Lower Limit Switch

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Tractor Heaters, Cold Storage



O114-008-422-H1 SHT 1 OF 2

Figure 5-22a: Tractor Heaters, Cold Storage

Tractor Heaters, Cold Storage

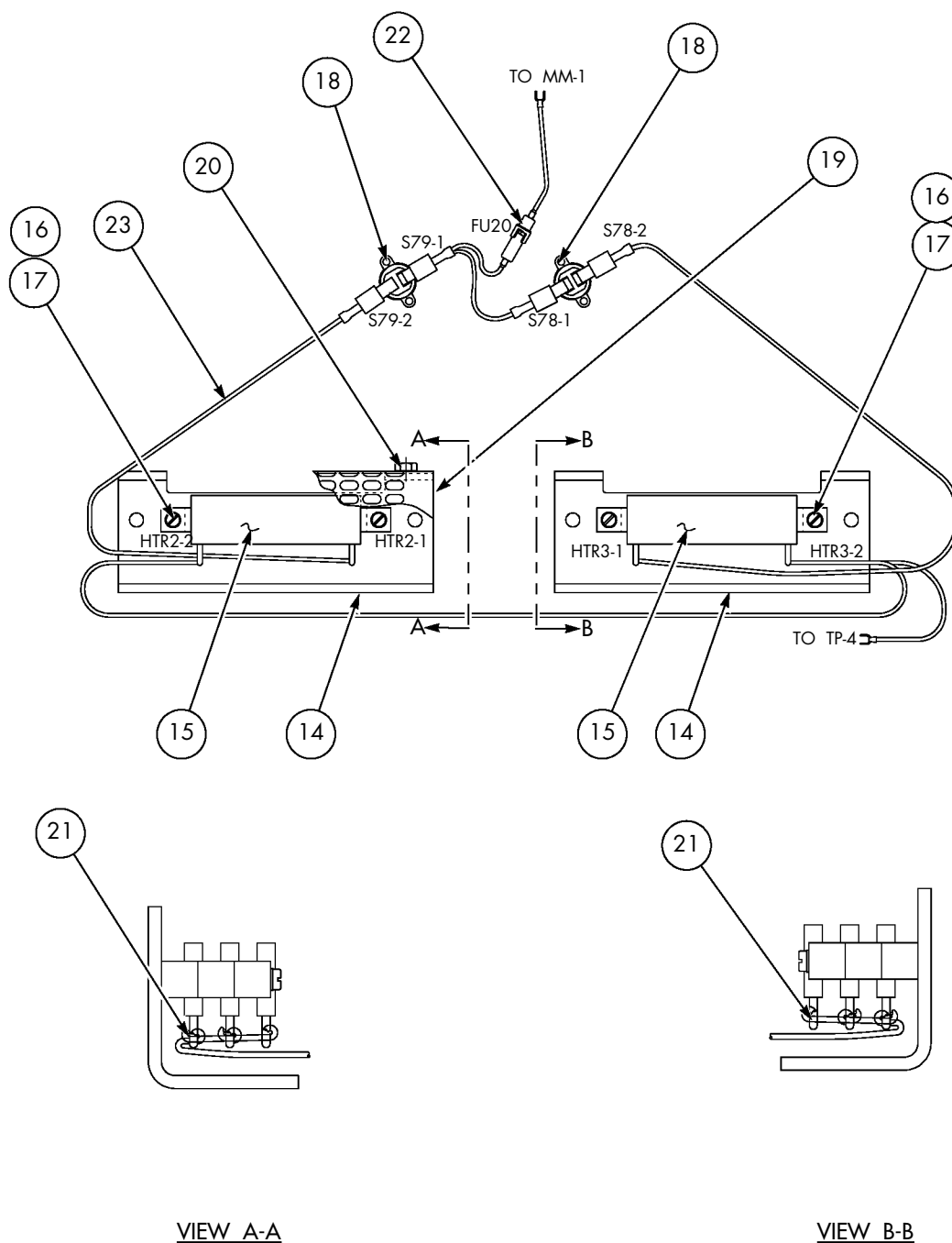


Figure 5-22b: Tractor Heaters, Cold Storage

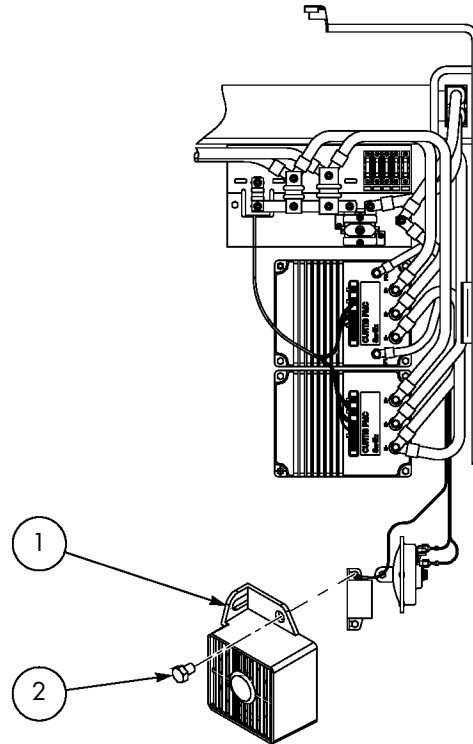
O114-008-408-F1 SHT 2 OF 2

FIGURE 5-22 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	8	00590-03085-71	Screw	
3	1	00590-39818-71	Bracket, Thermostat	
4	4	00590-03125-71	Screw	
5	12	00590-03595-71	Washer	
6	4	00590-39819-71	Nut	
8	12	00590-00556-71	Cable Tie	
9	6	00590-03092-71	Washer	
10	1	00590-39820-71	Cover, Rear Tractor	A
12	1	00590-39822-71	Fuse, 10A	R
13	1	00590-39948-71	Heater Assembly (includes Items 14 thru 23)	
14	2	00590-41906-71	Bracket, Heater	
15	6	00590-41905-71	Resistor	
16	4	00590-41907-71	Washer, Lock	
17	4	00590-41908-71	Screw	
18	2	00590-39947-71	Thermostat	
19	2	00590-41909-71	Cover, Heater	
20	4	00590-03591-71	Screw	
21	1	00590-41910-71	Wire, Bus	
22	2	00590-00128-71	Insulator, Tubing	
23	1	00590-41911-71	Harness, Wiring	
R= Recommended Spare				

List 5-22: Tractor Heaters, Cold Storage

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Motion Alarm Installation



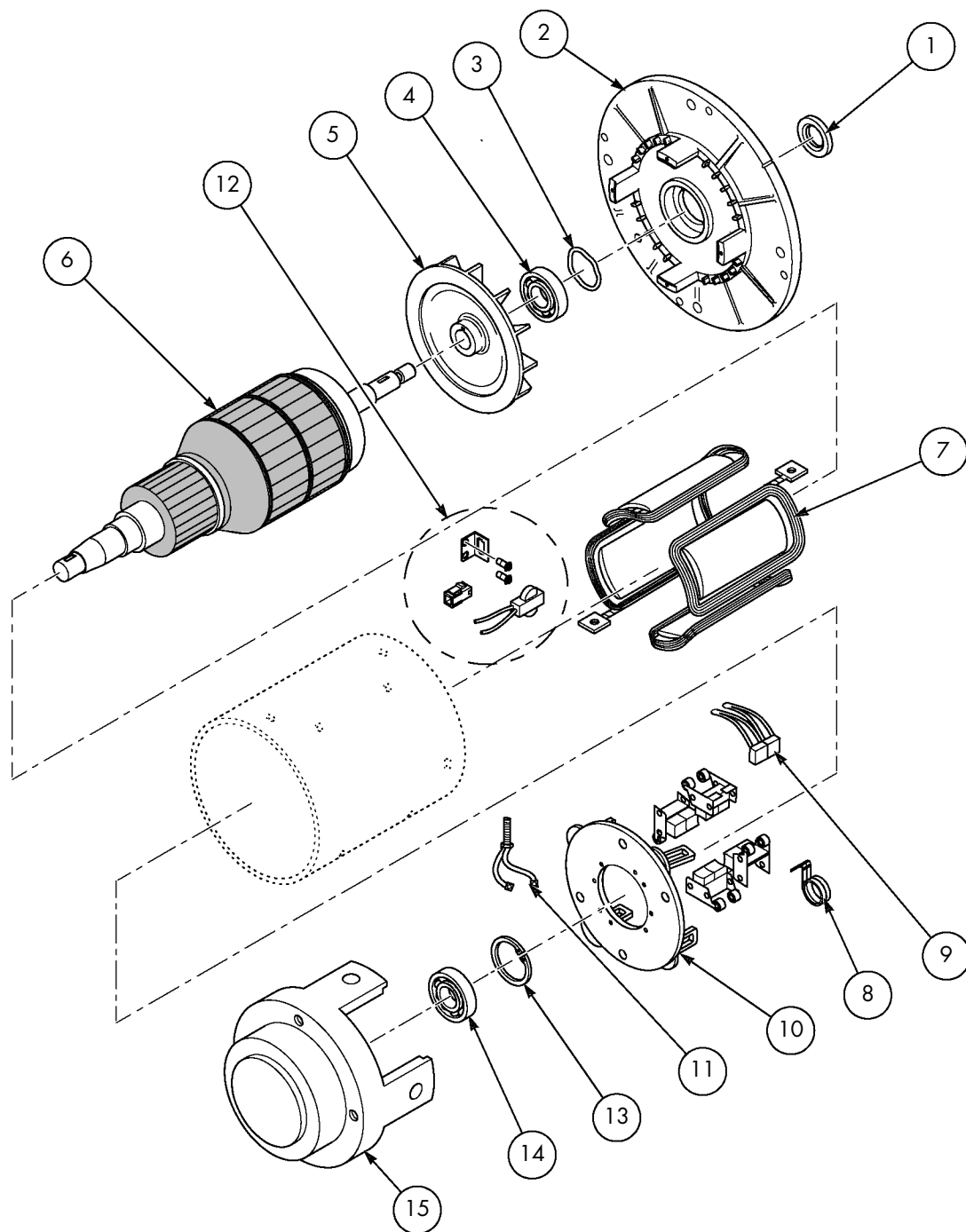
O114-021-007-B

Figure 5-23: Motion Alarm Installation

FIGURE 5-23 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-40580-71	Alarm, Horn	
2	2	00590-02917-71	Screw	

List 5-23: Motion Alarm Installation

Motor Drive, 24 Volt



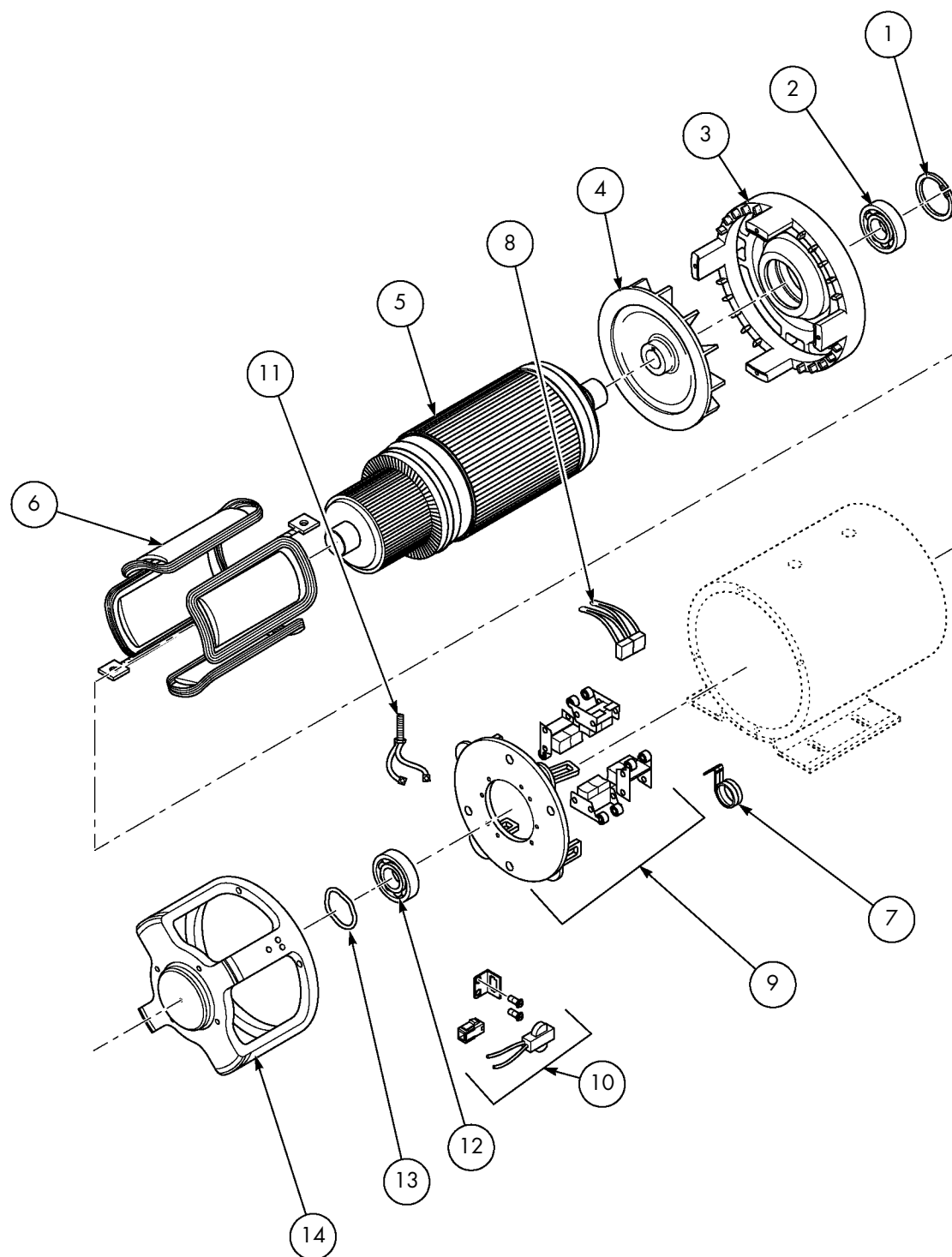
O570-453-501-A

Figure 5-24: Motor Drive, 24 Volt

FIGURE 5-24 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-40274-71	Motor, Drive, 24 Volt	
		00590-43001-71	Motor, Drive, 24 Volt, Rebuilt	
1	1	00590-39824-71	Seal	R
2	1	00590-41870-71	Head, Drive End	
3	1	00590-39826-71	Washer, Wavey	
4	1	00590-02996-71	Bearing, Drive End	R
5	1	00590-04715-71	Fan	
6	1	00590-47118-71	Armature/Fan Assembly	
7	1	00590-47119-71	Kit, Field Coil	R
8	4	00590-47120-71	Spring, Brush	R
9	4	00590-41782-71	Brush	R
10	1	00590-39831-71	Brush Box and Plate Assembly	
11	1	00590-39832-71	Kit, Lead Assembly	R
12	1	00590-40415-71	Kit, BWI Service	R
13	1	00590-39833-71	Ring, Retaining	
14	1	00590-04566-71	Bearing, Commutator End	R
15	1	00590-40275-71	Head, Commutator End	
R= Recommended Spare				

List 5-24: Motor Drive, 24 Volt

Motor, Lift, 24 Volt



O570-545-500-B

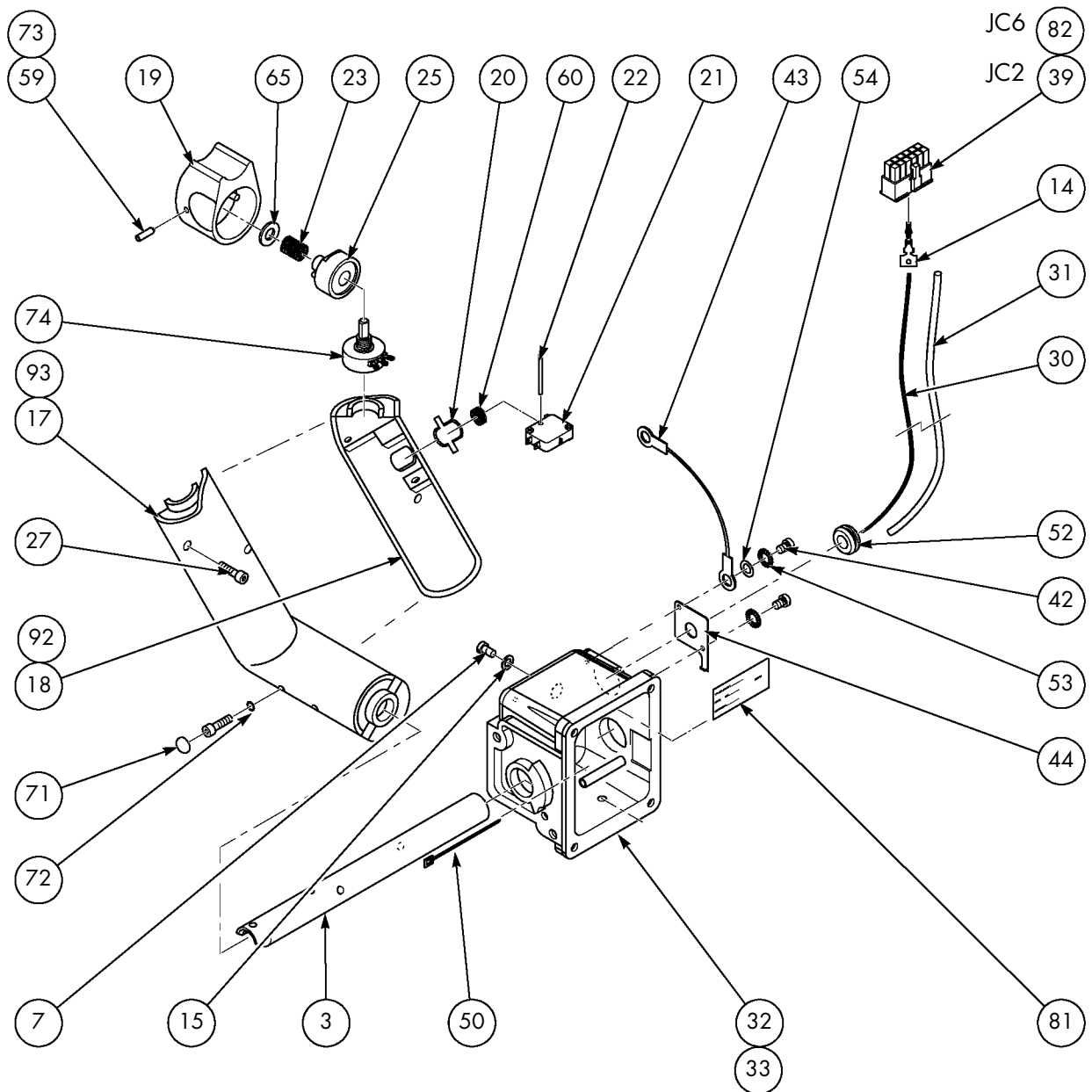
Figure 5-25: Motor, Lift, 24 Volt

FIGURE 5-25 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-05285-71	Motor, Lift, 24 Volt	
1	1	00590-39833-71	Ring, Snap	
2	1	00590-39834-71	Bearing, Drive End	R
3	1	00590-39825-71	Head, Drive End	
4	1	00590-04715-71	Fan	
5	1	00590-39838-71	Armature	
6	1	00590-39839-71	Field Coil Package	
7	1	00590-04574-71	Spring, Brush	R
8	1	00590-40856-71	Brush Set	R
9	1	00590-39831-71	Brush Box and Plate Assembly	
10	1	00590-42260-71	Brush Wear Indicator	
11	1	00590-39842-71	Kit, Lead Assembly	R
12	1	00590-04568-71	Bearing, Commutator End	R
13	1	00590-04568-71	Washer, Wavey	
14	1	00590-39843-71	Head, Commutator End	
R= Recommended Spare				

List 5-25: Motor, Lift, 24 Volt

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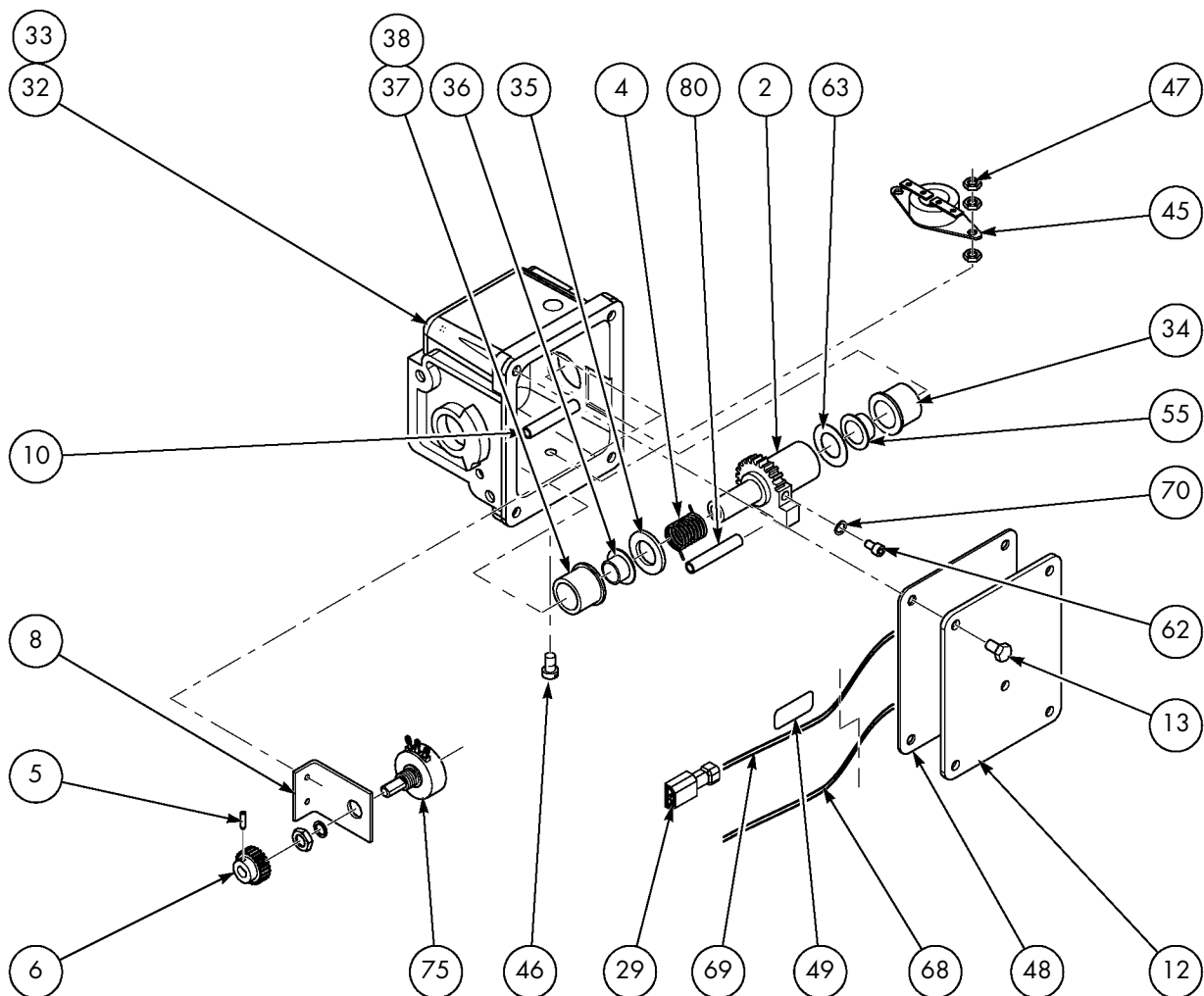
Control Handle Assembly



O114-019-292-B1-TOY SHT 1 OF 2

Figure 5-26a: Control Handle Assembly

Control Handle Assembly



114-120-264_AA_TOY1 SHT 2 OF 2

Figure 5-26b: Control Handle Assembly

FIGURE 5-26 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-47122-71	Control Handle Assembly	A
2	1	00590-02841-71	Gear	
3	1	00590-41914-71	Shaft, Control Handle	
4	1	00590-45842-71	Spring	R
5	1	00590-42236-71	Screw	
6	1	00590-41915-71	Gear, Pinion	
7	2	00590-41916-71	Screw	
8	1	00590-47123-71	Bracket, Control Handle	
10	2	00590-03495-71	Pin, Spirol	
12	1	00590-03586-71	Cover	
13	4	00590-03591-71	Screw, Self-Tapping	
14	8	00590-03240-71	Contact, Socket	
15	2	00590-39813-71	Washer	
17	1	00590-41917-71	Housing, Control Handle	
18	1	00590-41918-71	Cover, Control Handle	
19	1	00590-41919-71	Knob, Lift/Lower	
20	1	00590-03405-71	Button, Horn	
21	1	00590-46770-71	Microswitch	R
22	1	00590-03613-71	Pin, Pivot	
23	1	00590-45841-71	Spring, Torsion	R
25	1	00590-41920-71	Bracket, Potentiometer	
27	5	00590-41922-71	Screw	
29	1	00590-02399-71	Terminal	A
30	17	00590-03455-71	Wire, Black (order by foot)	
31	AR	00590-43929-71	Tubing, Shrink	
32	1	00590-42270-71	Case	
33	1	00590-03258-71	Case	A
34	1	00590-03259-71	Bearing, Sleeve	A, R
35	8	00590-03622-71	Shim	
36	1	00590-03420-71	Bearing, Sleeve	R
37	1	00590-03260-71	Bearing, Sleeve	A, R
38	1	00590-03623-71	Bearing, Sleeve	R
39	1	00590-03239-71	Housing, Connector	
42	2	00590-03625-71	Screw, Plastic	
43	1	00590-02708-71	Wire Assembly	
44	1	00590-45840-71	Bracket	
45	1	00590-03627-71	Thermostat	A
46	2	00590-03628-71	Screw	A
47	6	00590-03629-71	Nut	A
48	1	00590-03630-71	Heater	A
49	8-9	00590-00185-71	Sleeve, Identification	
50	1	00590-00811-71	Cable Tie	
52	1	00590-02700-71	Grommet	
A= Cold Storage R= Recommended Spare				

List 5-26: Control Handle Assembly (Sheet 1 of 2)

Control Handle Assembly

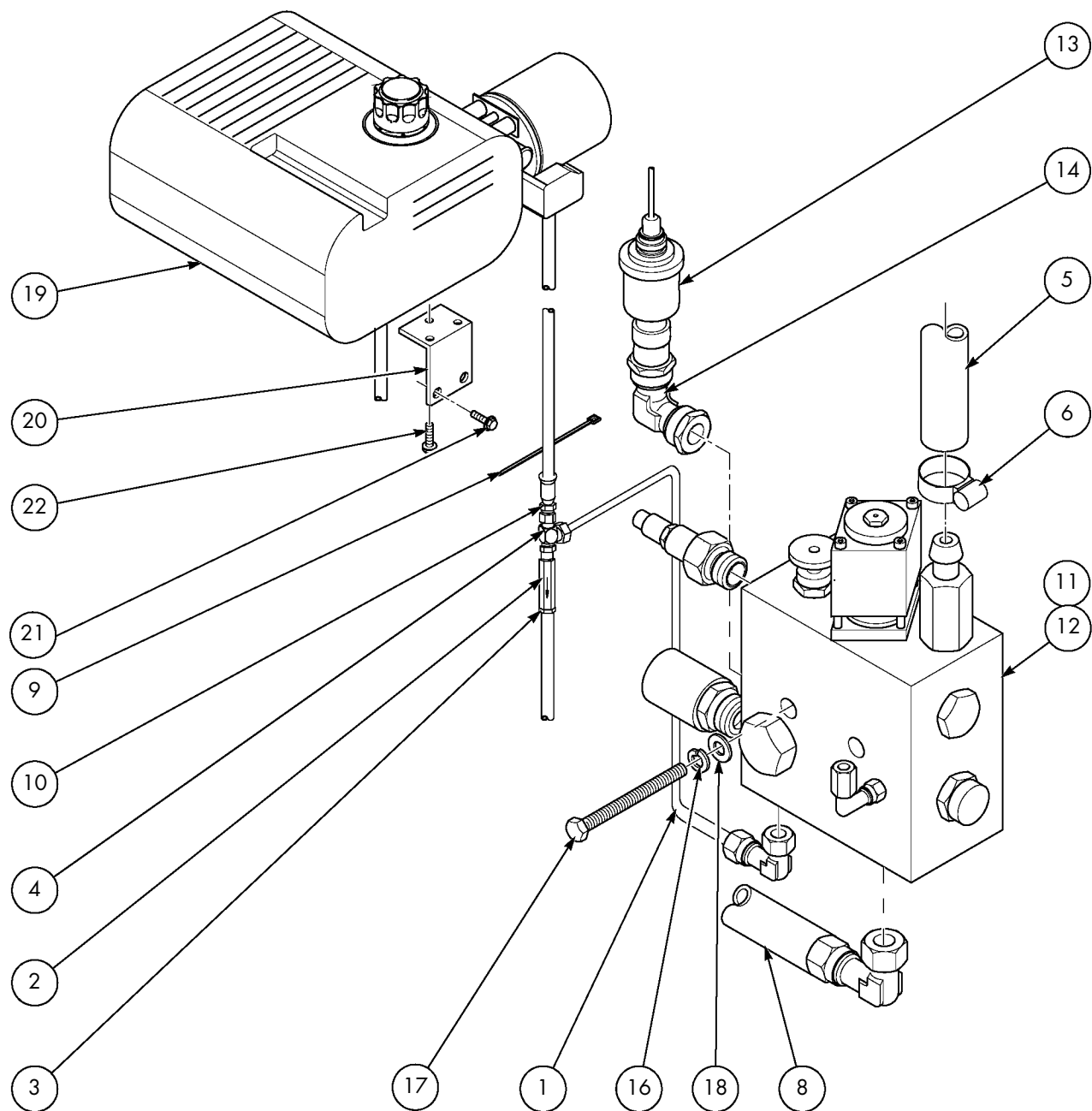
FIGURE 5-26 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
53	3	00590-02709-71	Washer, Lock	
54	1	00590-02710-71	Washer	
55	2	00590-02701-71	Bearing, Sleeve	A, R
59	2	00590-41973-71	Screw	
60	1	00590-03568-71	Spring, Compression	R
62	1	00590-45927-71	Screw	
63	1	00590-02707-71	Spacer	
65	2	00590-02711-71	Washer, Fiber	
68	1	00590-41858-71	Wire Assembly	A
69	1	00590-41923-71	Wire Assembly	A
70	2	00590-01364-71	Washer, Lock	
71	2	00590-41925-71	Cap, Snap	
72	2	00590-41926-71	Washer, Flat	
73	2	00590-41927-71	Screw, Set, Nylon	
74	1	00590-43054-71	Resistor, Variable, Lift	R
75	1	00590-43053-71	Resistor, Variable, Travel	R
80	1	00590-01779-71	Pin, Spriol	
81	1	00590-41928-71	Decal	
82	1	00590-45821-71	Connector	
92	1	00590-47124-71	Cover, Handle	
93	1	00590-47125-71	Housing, Handle	
A= Cold Storage R= Recommended Spare				

List 5-26: Control Handle Assembly (Sheet 2 of 2)

SECTION 6 Hydraulic Components

Hydraulic Installation.....	6-2
Reservoir Assembly	6-4
Lift/Lower Manifold Assembly, Three Stage.....	6-6
Valve, Lift/Lower, Three Stage.....	6-8
Lift/Lower Manifold Assembly, Two Stage	6-10
Valve, Lift/Lower, Two Stage.....	6-12
Lift Pump and Motor Assembly.....	6-14
Lift Ram, Main Lift, 1.75 inch Diameter.....	6-16
Lift Ram, Free Lift, 2.5 inch Diameter	6-18

Hydraulic Installation



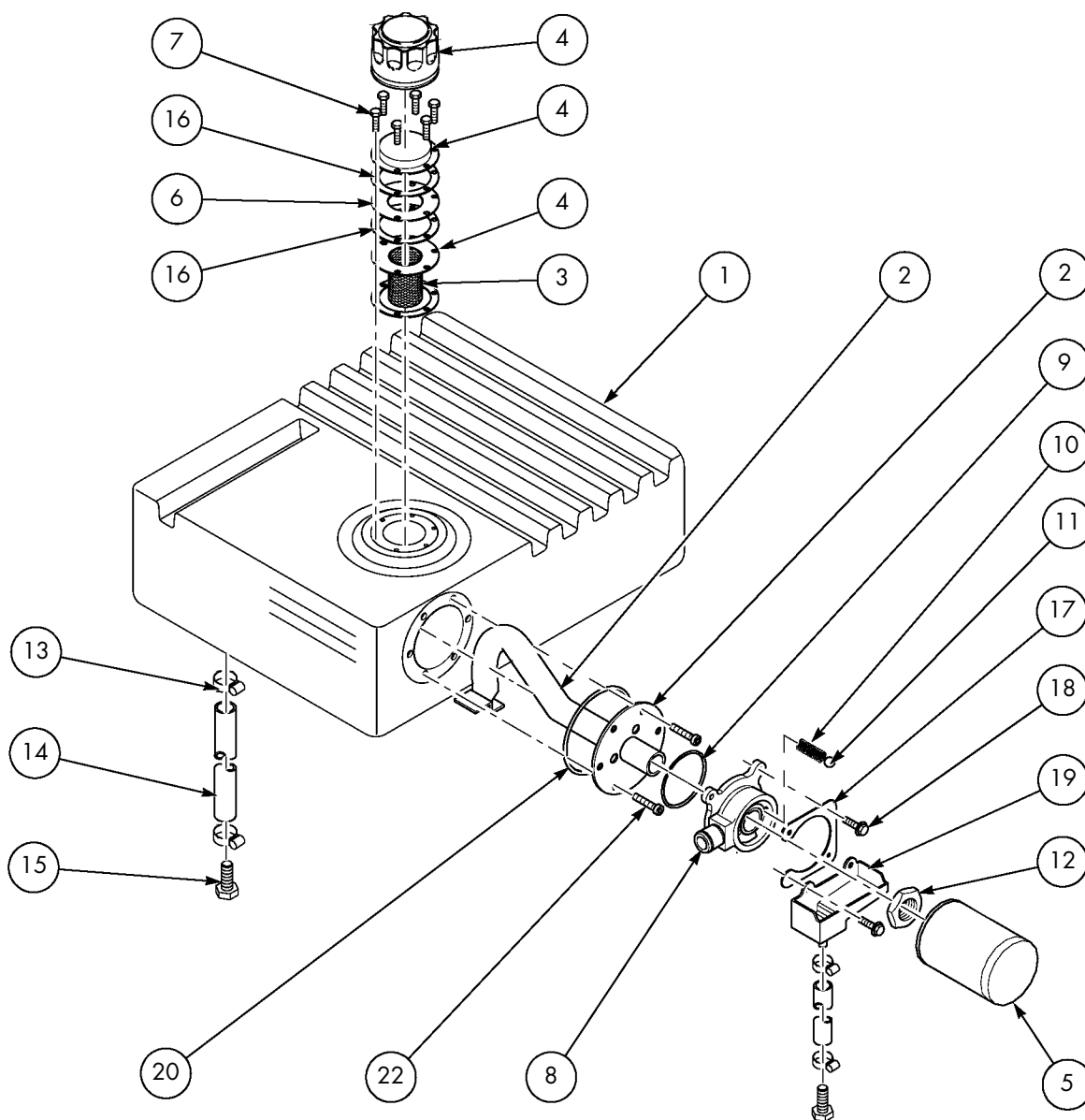
O114-120-208_B

Figure 6-1: Hydraulic Installation

FIGURE 6-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-02874-71	Line, Hydraulic	
2	1	00590-02936-71	Valve, Relief	
3	1	00590-02998-71	Connector, O-Ring	
4	1	00590-03054-71	Tee, O-Ring	
5	1	00590-03101-71	Hose	
6	4	00590-03138-71	Clamp, Hose	
7	1	00590-03185-71	Hose, Formed (Not Shown)	
8	1	00590-41809-71	Hose Assembly	
9	1	00590-00556-71	Cable Tie	
10	1	00590-03491-71	Fitting	A
11	1	00590-41855-71	Manifold Assembly, Lift/Lower (See Figure 6-5.)	A
12	1	00590-41854-71	Manifold Assembly, Lift/Lower (See Figure 6-3.)	B
13	1	00590-03564-71	Harness Assembly, Pressure Transducer	C
14	2	00590-39599-71	Elbow	C
15	.80	00590-03576-71	Guard, Hose (Not Shown)	
16	2	00590-02840-71	Washer, Lock	
17	2	00590-41877-71	Screw	
18	4	00590-02940-71	Washer, Flat	
19	1	00590-41852-71	Reservoir Assembly (See Figure 6-2.)	
20	1	00590-41853-71	Bracket, Reservoir	
21	2	00590-02960-71	Screw	
22	3	00590-03085-71	Screw	
A= Two Stage Mast B= Three Stage Mast C= With Transducer				

List 6-1: Hydraulic Installation

Reservoir Assembly



O114-022-040_B

Figure 6-2: Reservoir Assembly

FIGURE 6-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-41852-71	Reservoir Assembly	
1	1	00590-40623-71	Reservoir, Plastic	
2	1	00590-41841-71	Weldment, Reservoir, Tube	
3	1	00590-02943-71	Ball, Check	
4	1	00590-03002-71	Cap, Filler, Breather	
5	1	00590-03061-71	Filter, Mechanical Cartridge	R
6	1	00590-03111-71	Valve, Seat	
7	6	00590-02989-71	Screw	
8	1	00590-03189-71	Adapter, Filter	
9	1	00590-03441-71	O-Ring	R
10	1	00590-03567-71	Spring, Compression	R
11	1	00590-03572-71	Ball	
12	1	00590-03551-71	Nut	
13	2	00590-03541-71	Clamp, Hose	
14	1	00590-03548-71	Hose, Drain	
15	1	00590-03254-71	Plug, Mechanical	
16	1	00590-03569-71	Gasket	
17	1	00590-41818-71	Plate, Drip Tray	
18	4	00590-03085-71	Screw	
19	1	00590-41882-71	Funnel, Tray	
20	1	00590-41868-71	O-Ring	R
22	6	00590-41866-71	Screw	
R= Recommended Spare				

List 6-2: Reservoir Assembly

Lift/Lower Manifold Assembly, Three Stage

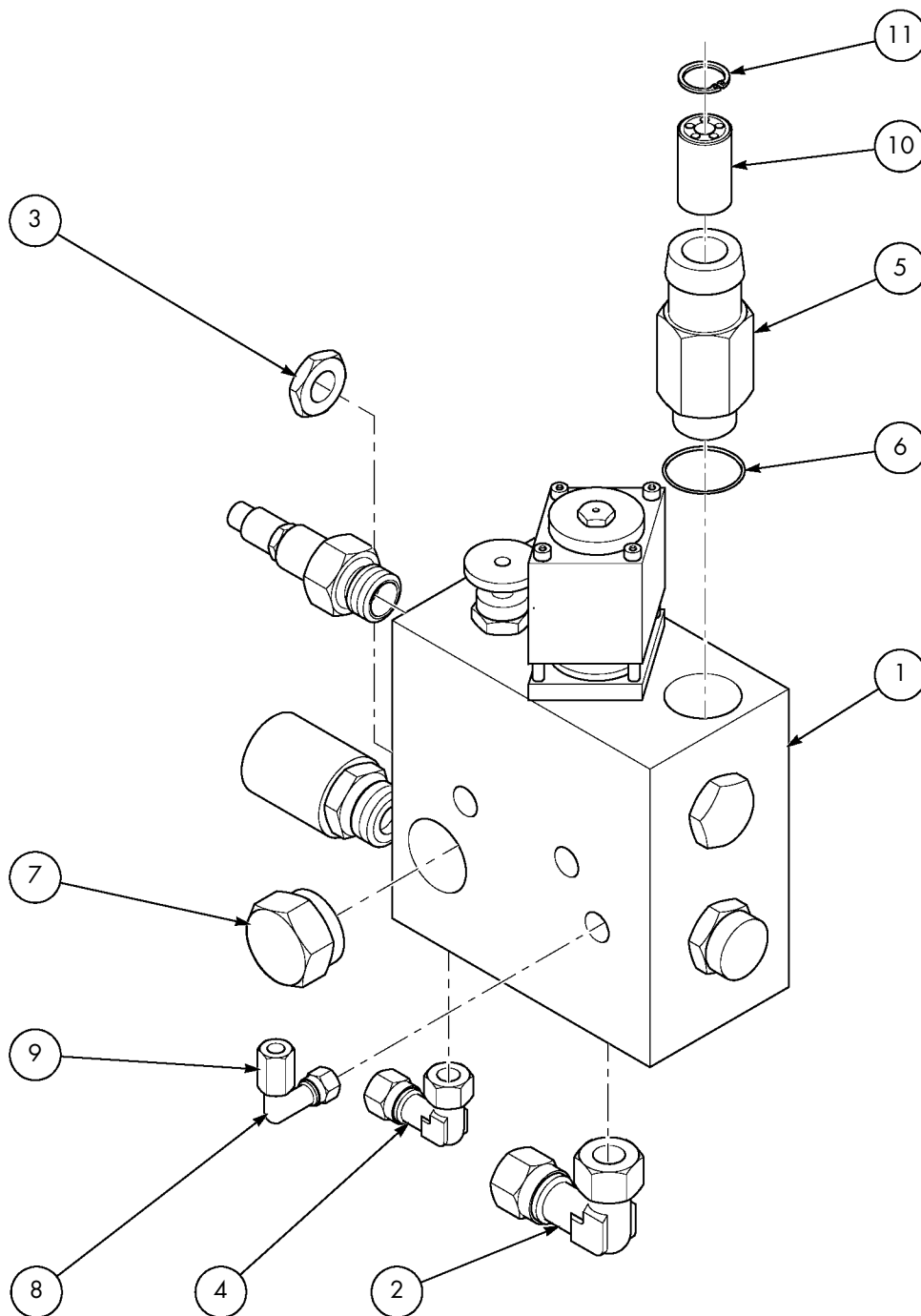


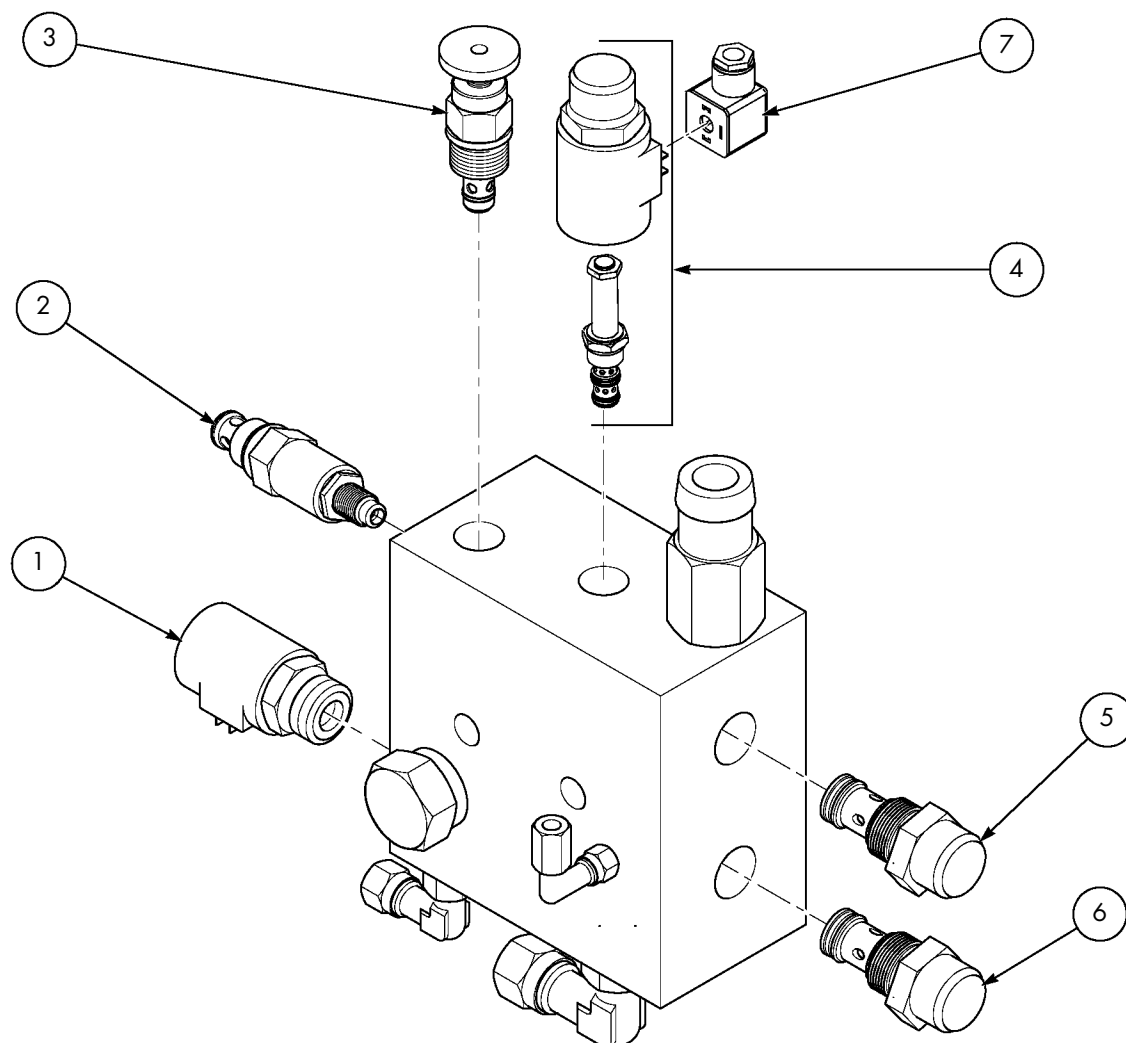
Figure 6-3: Lift/Lower Manifold Assembly, Three Stage

O114-120-189_A

FIGURE 6-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-41854-71	Manifold Assembly, Lift/Lower	
1	1	00590-02799-71	Valve, Lift/Lower (See Figure 6-4.)	
2	1	00590-41879-71	Elbow	
3	1	00590-02937-71	Plug, O-Ring	
4	1	00590-02999-71	Elbow, 90 degrees	
5	1	00590-03055-71	Adapter, Housing	
6	1	00590-03102-71	Packing, O-Ring	
7	1	00590-03139-71	Plug, O-Ring	
8	1	00590-42041-71	Male, Elbow	
9	1	00590-03488-71	Cap	
10	1	00590-03439-71	Valve, Hydraulic, Flow Control	
11	1	00590-02938-71	Ring, Snap	

List 6-3: Lift/Lower Manifold Assembly, Three Stage

Valve, Lift/Lower, Three Stage



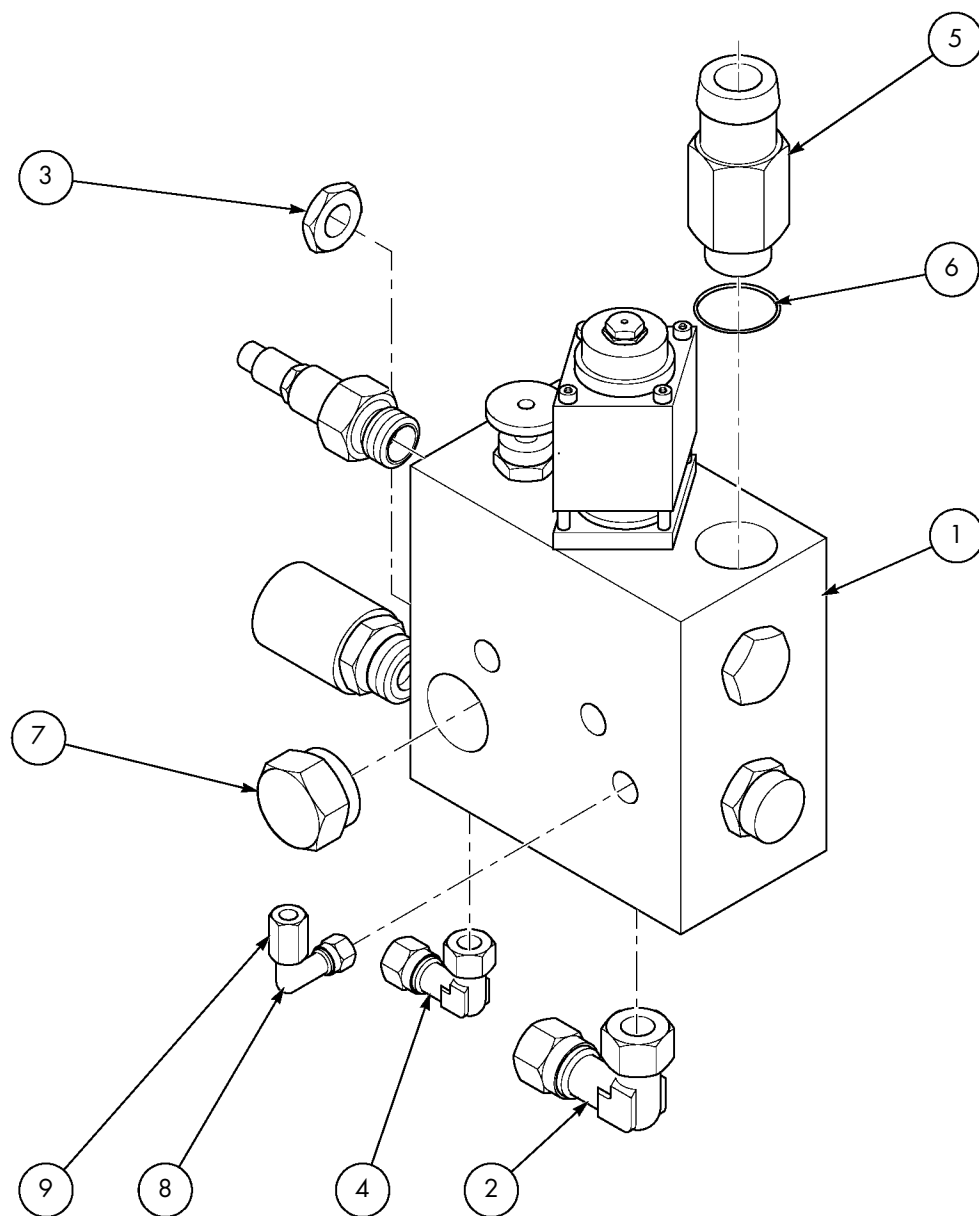
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Figure 6-4: Valve, Lift/Lower, Three Stage

FIGURE 6-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02799-71	Valve, Lift/Lower	
1	1	00590-41896-71	Valve, Solenoid (includes:)	
	1	00590-40256-71	Coil, 24 Volt	
2	1	00590-41762-71	Valve, Relief	
3	1	00590-41897-71	Valve, Manual Lowering	
4	1	00590-40276-71	Valve, Proportional (includes:)	
	1	00590-40276-71	Coil, 24 Volt	
	1	00590-41899-71	Kit, Seal, Proportional Valve	R
5	1	00590-41900-71	Valve, Check	
6	1	00590-41901-71	Valve, Check	
7	1	00590-41902-71	Connector	
8	1	00590-41903-71	Kit, Seal (Not Shown)	R
R= Recommended Spare				

List 6-4: Valve, Lift/Lower, Three Stage

Lift/Lower Manifold Assembly, Two Stage



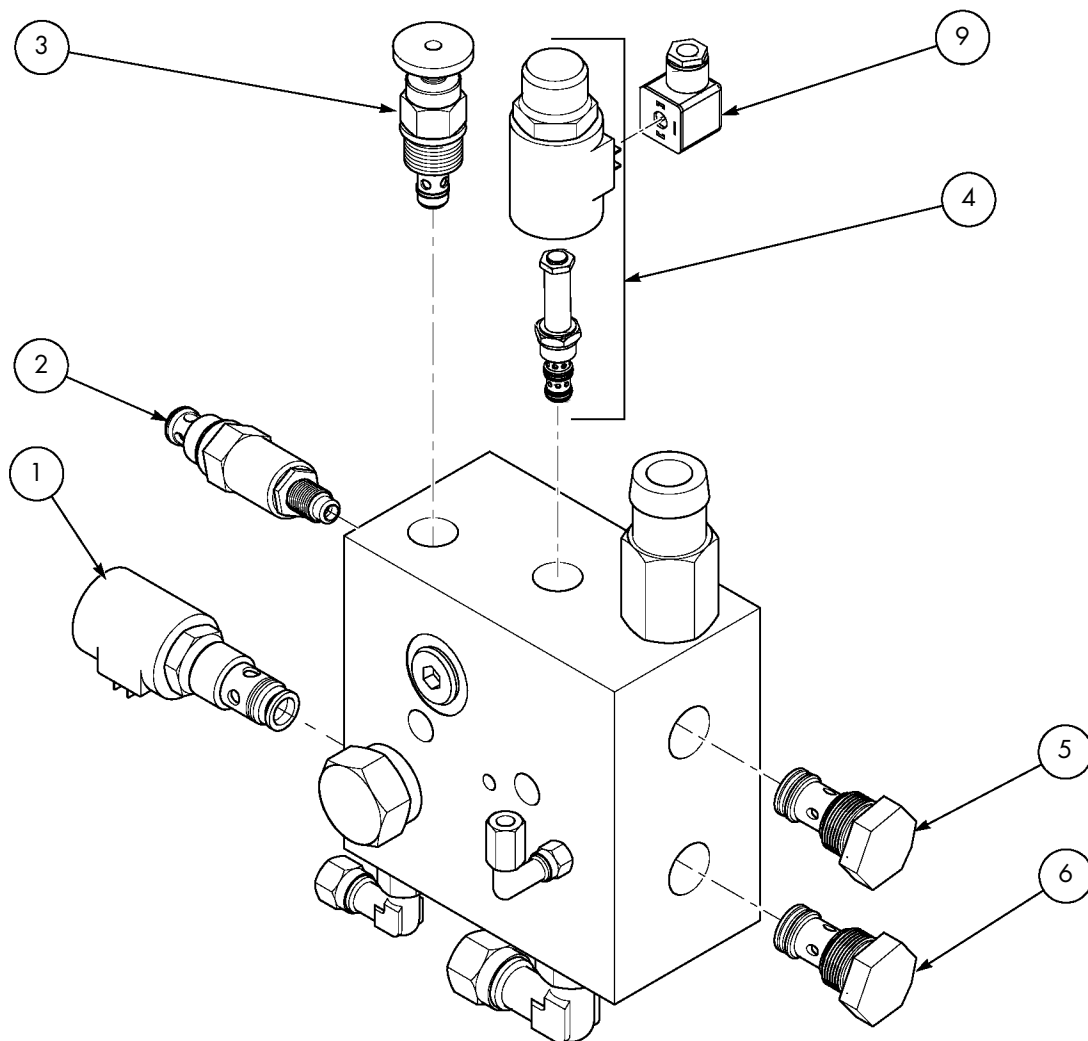
O114-120-190_A

Figure 6-5: Lift/Lower Manifold Assembly, Two Stage

FIGURE 6-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-41855-71	Manifold Assembly, Lift/Lower, Two Stage	
1	1	00590-02800-71	Valve, Lift/Lower(See Figure 6-6.)	
2	1	00590-41879-71	Elbow, 90 Degrees	
3	1	00590-02937-71	Plug, O-Ring	
4	1	00590-02999-71	Elbow, 90 Degrees	
5	1	00590-03055-71	Adapter, Housing	
6	1	00590-03102-71	Packing, O-Ring	R
7	1	00590-03139-71	Plug, O-Ring	
8	1	00590-42041-71	Male, Elbow	
9	1	00590-03488-71	Cap	
R= Recommended Spare				

List 6-5: Lift/Lower Manifold Assembly, Two Stage

Valve, Lift/Lower, Two Stage



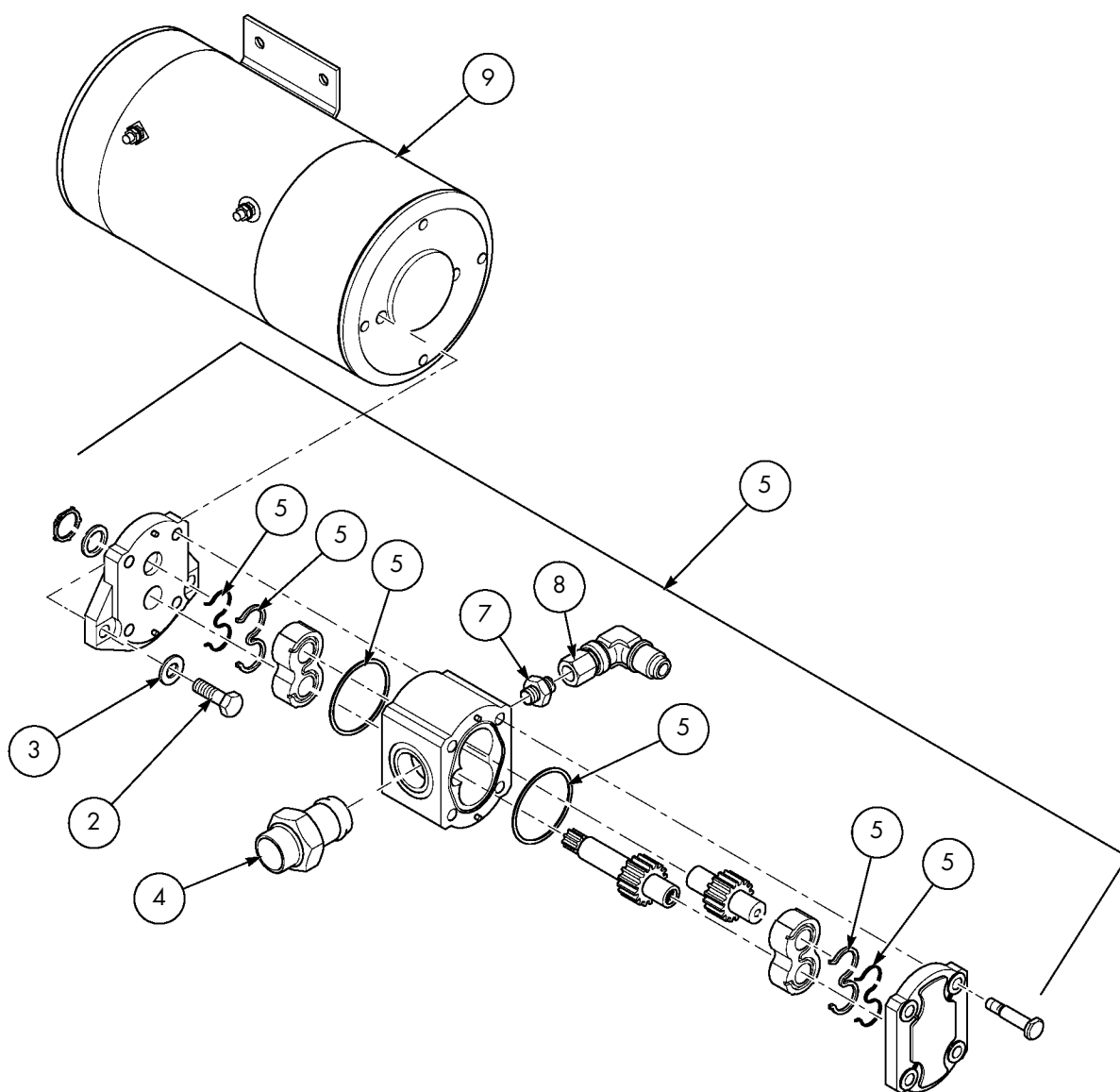
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Figure 6-6: Valve, Lift/Lower, Two Stage

FIGURE 6-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02800-71	Valve, Lift/Lower	
1	1	00590-40255-71	Valve, Solenoid with Coil (includes:)	
	1	00590-40257-71	Valve, Solenoid without Coil	R
	1	00590-40256-71	Coil, 24 Volt	
2	1	00590-41762-71	Valve, Relief	
3	1	00590-41897-71	Valve, Manual Lowering (includes:)	
	1	00590-47127-71	Knob, Adjusting	
4	1	00590-42231-71	Valve, Proportional with Coil	
5	1	00590-41900-71	Valve, Check	
6	1	00590-41901-71	Valve, Check	
9	1	00590-41902-71	Connector	
R= Recommended Spare				

List 6-6: Valve, Lift/Lower, Two Stage

Lift Pump and Motor Assembly



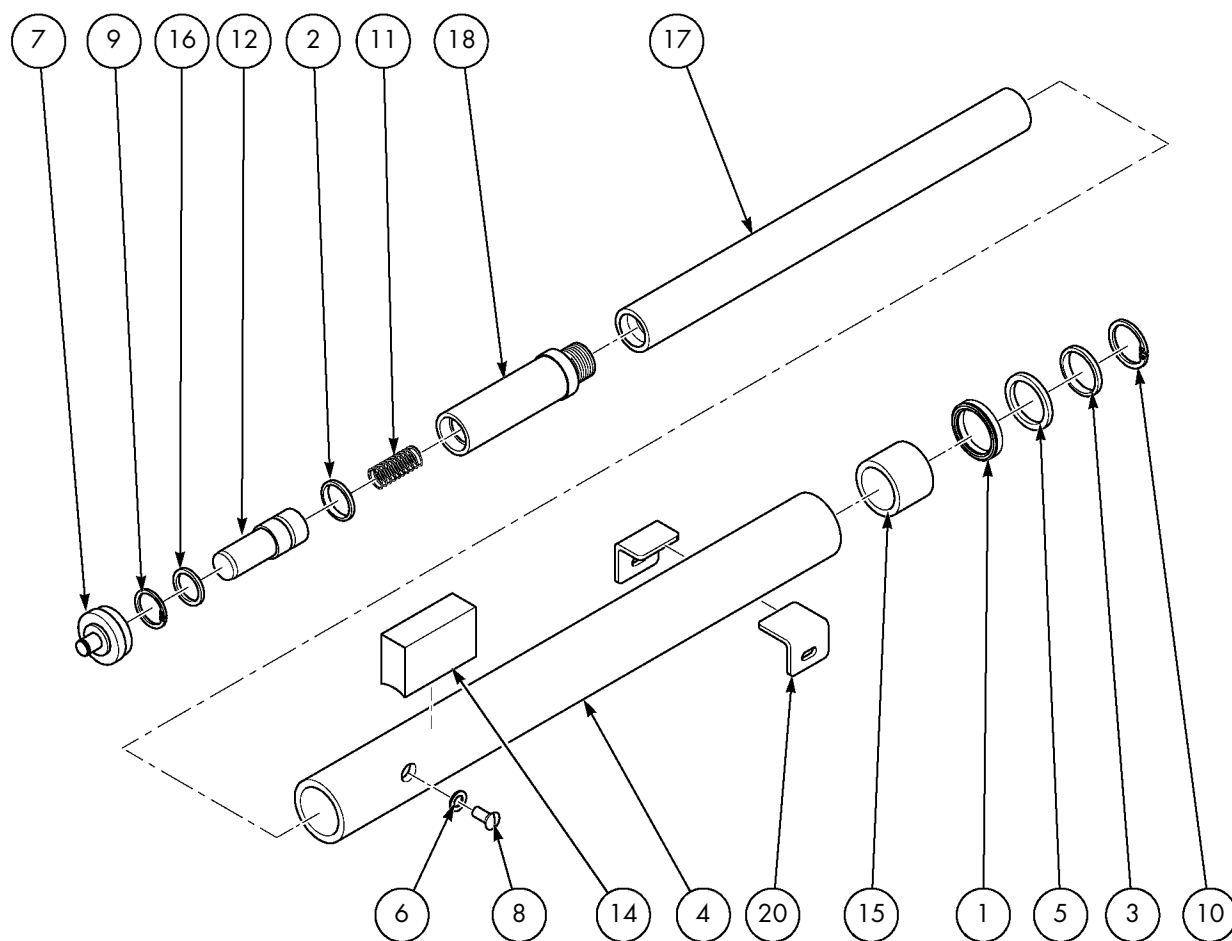
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Figure 6-7: Lift Pump and Motor Assembly

FIGURE 6-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02732-71	Pump and Motor Assembly, Lift	
2	2	00590-02770-71	Screw	
3	2	00590-02940-71	Washer, Flat	
4	1	00590-03000-71	Connector, Hydraulic Beaded	
5	1	00590-03057-71	Pump, (includes:)	
	1	00590-03058-71	Seal, Kit	R
7	1	00590-02875-71	Connector, Hydraulic	
8	1	00590-03187-71	Elbow, Female, 90 Degree	
9	1	00590-05285-71	Motor, Lift (See Figure 5-25.)	
R= Recommended Spare				

List 6-7: Lift Pump and Motor Assembly

Lift Ram, Main Lift, 1.75 inch Diameter



O114018-081

Figure 6-8: Lift Ram, Main Lift, 1.75 inch Diameter

FIGURE 6-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02733-71	Ram Assembly, 1.75 inch, Right-Hand	A
		00590-02734-71	Ram Assembly, 1.75 inch, Right-Hand	B
		00590-02735-71	Ram Assembly, 1.75 inch, Right-Hand	C
		00590-02736-71	Ram Assembly, 1.75 inch, Right-Hand	D
		00590-02737-71	Ram Assembly, 1.75 inch, Right-Hand	E
		00590-03313-71	Ram Assembly, 1.75 inch, Right-Hand	F
		00590-03314-71	Ram Assembly, 1.75 inch, Left-Hand	A
		00590-03315-71	Ram Assembly, 1.75 inch, Left-Hand	B
		00590-03316-71	Ram Assembly, 1.75 inch, Left-Hand	C
		00590-03317-71	Ram Assembly, 1.75 inch, Left-Hand	D
		00590-03318-71	Ram Assembly, 1.75 inch, Left-Hand	E
		00590-03319-71	Ram Assembly, 1.75 inch, Left-Hand	F
1	1	00590-02802-71	Seal	R
2	1	00590-02878-71	Seal, Oil	R
3	1	00590-02941-71	Seal, Oil	R
5	1	00590-03059-71	Plug, Packing, Back-Up	
4	1	Ref.	Housing, Cylinder (Contact Technical Support)	
6	1	00590-03060-71	Ring, Back-Up	R
7	1	00590-03142-71	Plug, Mechanical, Cylinder	
8	1	00590-03001-71	Screw	
9	1	00590-03141-71	Ring, Snap	
10	2	00590-03493-71	Ring, Snap	
11	1	00590-03583-71	Spring	R
12	1	00590-03587-71	Cushion, Piston, Lowering	
14	1	NSS	Manifold, Cylinder	G
15	1	00590-03596-71	Adapter	
16	1	00590-03598-71	Ring, Retainer	
17	1	00590-03600-71	Piston, Cylinder	A
	1	00590-03601-71	Piston, Cylinder	B
	1	00590-03602-71	Piston, Cylinder	C
	1	00590-03603-71	Piston, Cylinder	D
	1	00590-03604-71	Piston, Cylinder	E
	1	00590-03605-71	Piston, Cylinder	F
18	1	00590-03609-71	Plug, Mechanical, Piston	
20	1	00590-03251-71	Bracket, Cylinder	
21	1	00590-42999-71	Seal Kit (Not Shown)	R
A= OACH - 88 inches B= OACH - 95 inches C= OACH - 107 inches D= OACH - 118 inches E= OACH - 127 inches F= OACH - 132 inches G= Not Sold Separately R= Recommended Spare				

List 6-8: Lift Ram, Main Lift, 1.75 inch Diameter

Lift Ram, Free Lift, 2.5 inch Diameter

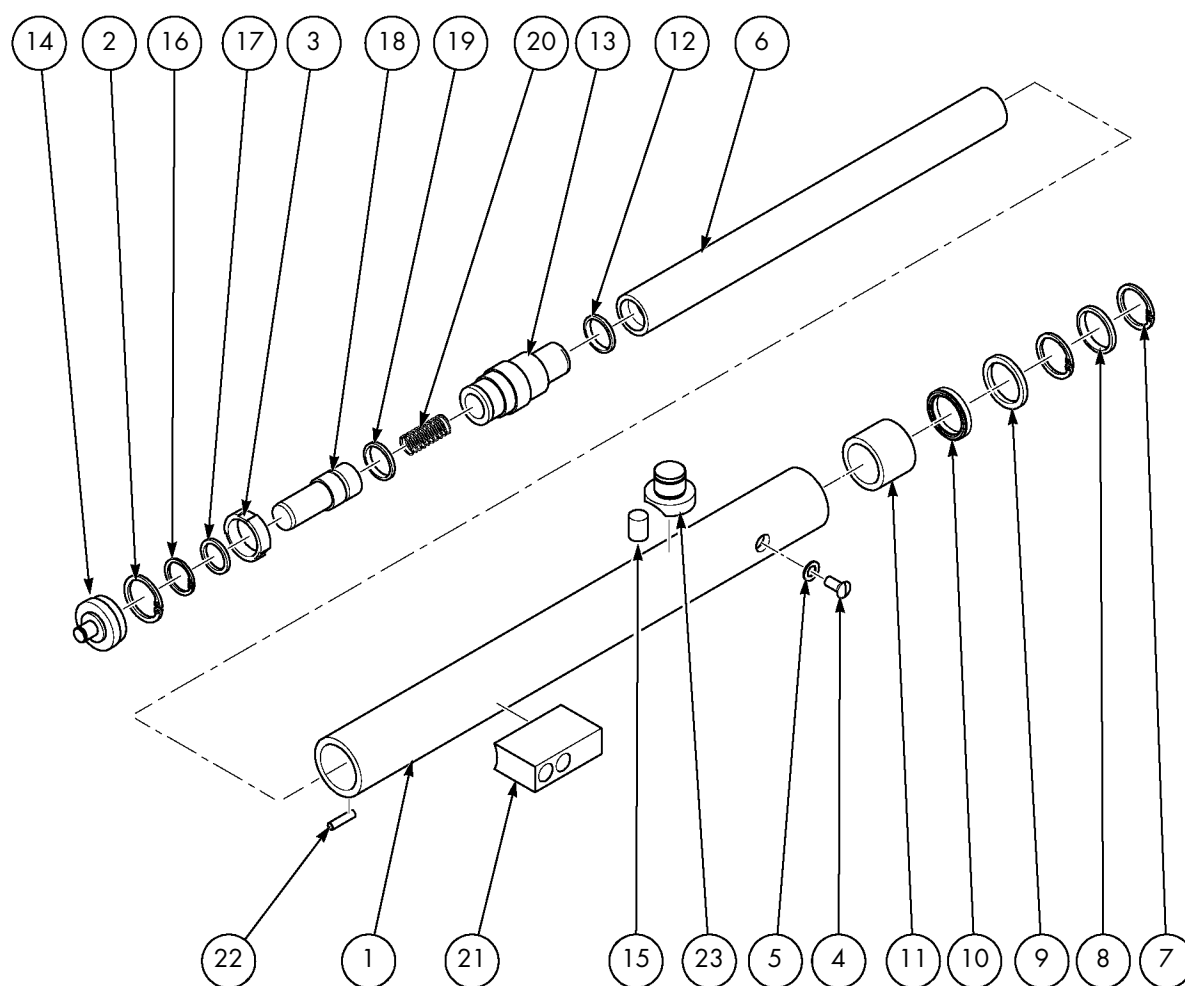


Figure 6-9: Lift Ram, Free Lift, 2.5 inch Diameter

O114018-082

FIGURE 6-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-03322-71	Ram Assembly 2.5 inch	A
		00590-03323-71	Ram Assembly 2.5 inch	B
		00590-03324-71	Ram Assembly 2.5 inch	C
		00590-03325-71	Ram Assembly 2.5 inch	D
		00590-03326-71	Ram Assembly 2.5 inch	E
		00590-03327-71	Ram Assembly 2.5 inch	F
1		Ref.	Housing, Cylinder (Contact Technical Support)	
2	1	00590-02879-71	Ring, Snap	
3	1	00590-02942-71	Sleeve, Bearing	R
4	1	00590-03001-71	Screw	
5	1	00590-03060-71	Ring, Back-Up	R
6	1	00590-03105-71	Piston, Tube	A
	1	00590-03106-71	Piston, Tube	B
	1	00590-03107-71	Piston, Tube	C
	1	00590-03108-71	Piston, Tube	D
	1	00590-03109-71	Piston, Tube	E
	1	00590-03110-71	Piston, Tube	F
7	2	00590-03143-71	Ring, Snap	
8	1	00590-03188-71	Seal, Oil	R
9	1	00590-03460-71	Ring, Packing	R
10	1	00590-03442-71	Seal	R
11	1	00590-03459-71	Adapter, Bearing	
12	1	00590-42286-71	Packing, O-Ring	R
13	1	00590-03253-71	Plug, Mechanical, Piston	
14	1	00590-03373-71	Plug, Mechanical, Cylinder	
15	1	00590-03461-71	Stud, Stop	
16	1	00590-03141-71	Ring, Snap	
17	1	00590-03598-71	Ring, Retainer	
18	1	00590-03587-71	Cushion, Lowering, Piston	
19	1	00590-02878-71	Seal Oil	R
20	1	00590-03583-71	Spring	R
21	1	00590-03250-71	Manifold, Cylinder	
22	1	00590-03549-71	Pin, Locator	
23	1	00590-03356-71	Stud, Pivot	
24	1	00590-42195-71	Seal Kit (Not Shown)	R
A= OACH - 88 inches B= OACH - 95 inches C= OACH - 107 inches D= OACH - 118 inches E= OACH - 127 inches F= OACH - 132 inches R= Recommended Spare				

List 6-9: Lift Ram, Free Lift, 2.5 inch Diameter

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SECTION 7 Mast

Two Stage Mast Assembly	7-2
Three Stage Mast Assembly	7-7
Two and Three Stage Mast Cables, Hoses and Pulleys	7-13
Fork Assembly, Standard	7-22
End Cap Pulley Assembly	7-24
Pulley Assembly	7-28
Pulley Assembly	7-29
Pulley Assembly	7-30
Bumper Assembly	7-31
Load Wheel Assembly	7-32

Two Stage Mast Assembly

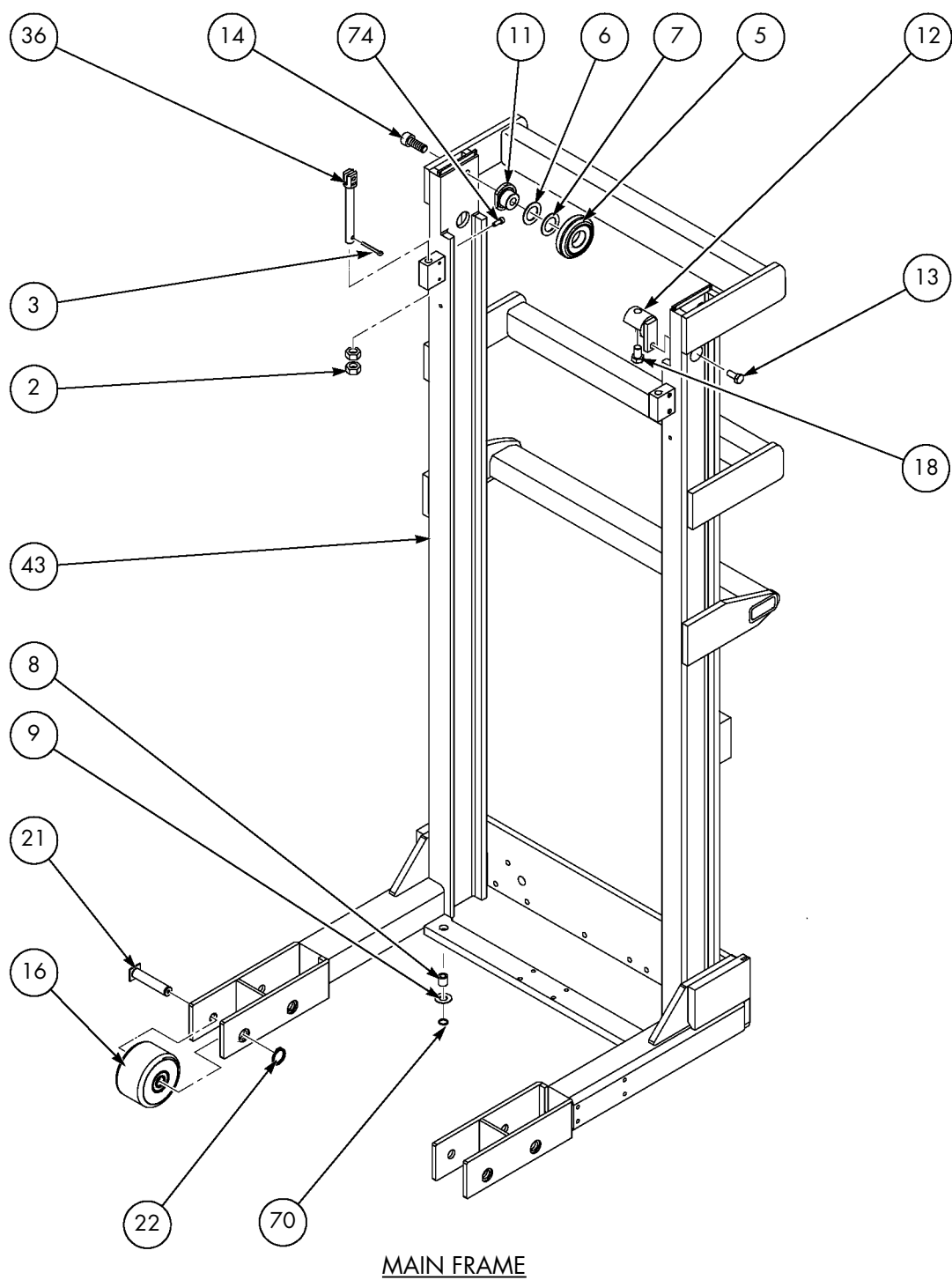
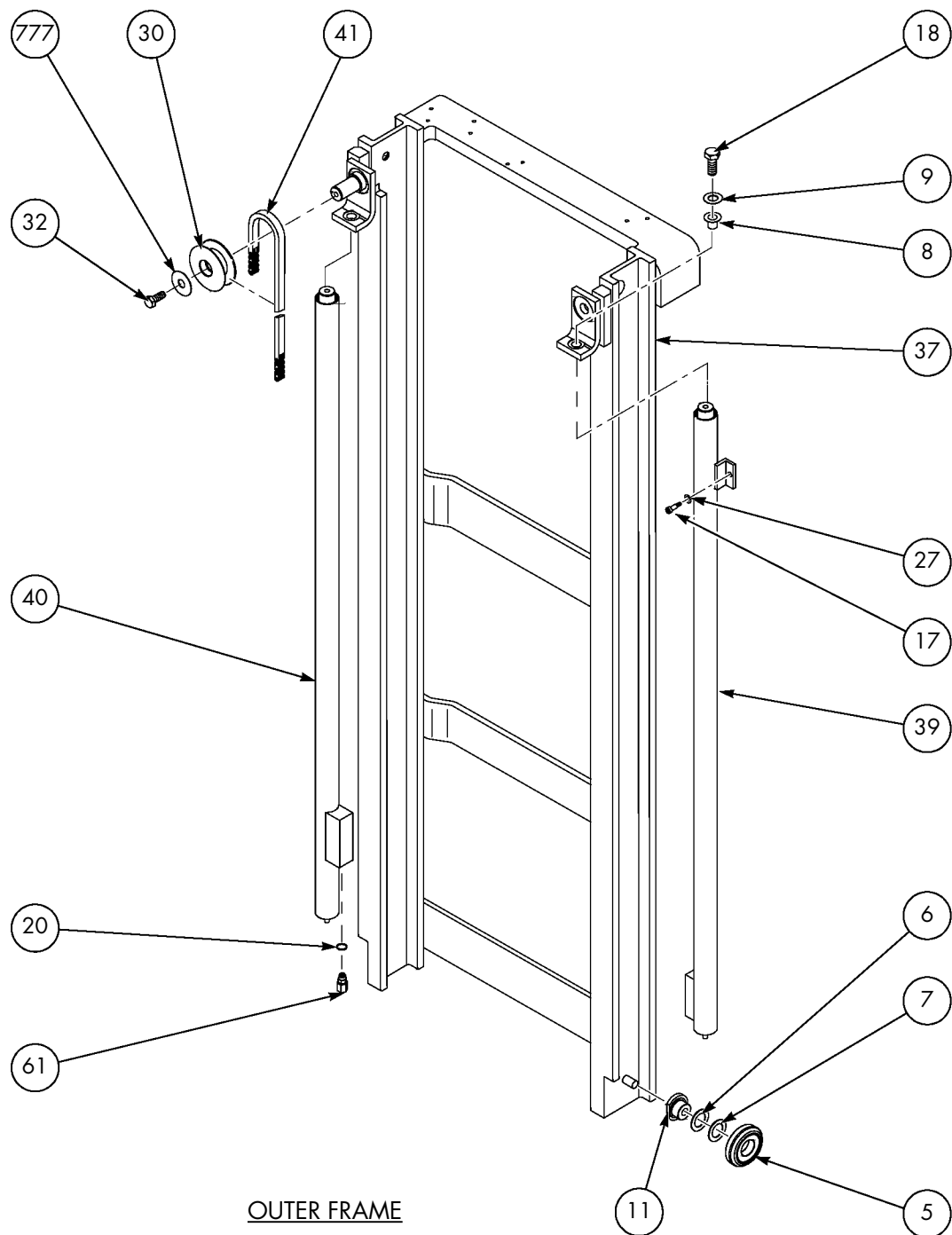


Figure 7-1a: Two Stage Mast Assembly

O114010-633 SHT 1 OF 3

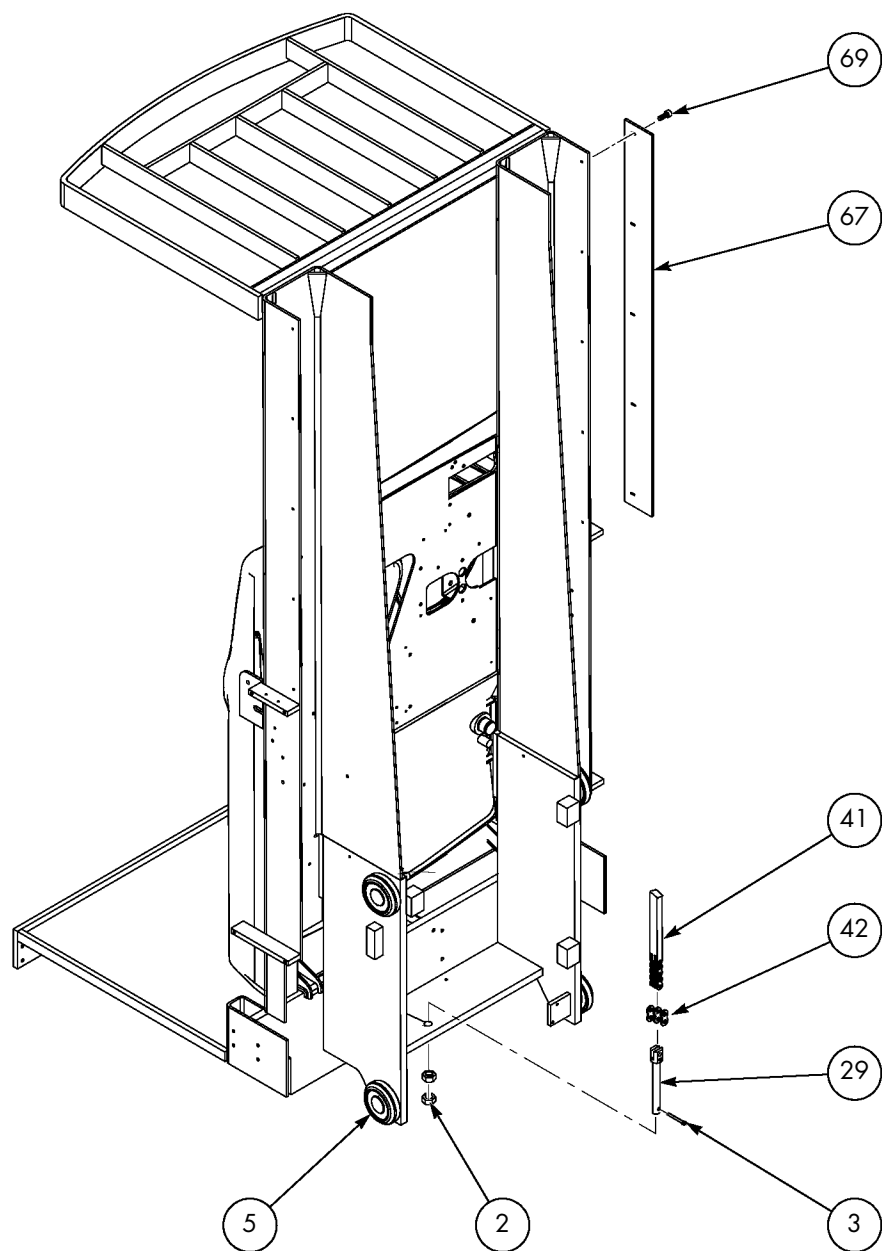
Two Stage Mast Assembly



O114-010-633-2 SHT 2 OF 3

Figure 7-1b: Two Stage Mast Assembly

Two Stage Mast Assembly



O114-010-633-3 SHT 3 OF 3

Figure 7-1c: Two Stage Mast Assembly

FIGURE 7-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	6	00590-02881-71	Nut	
3	2	00590-02944-71	Pin, Cotter	
5	8	00590-03062-71	Bearing, Mast Roller	R
6	20	00590-03112-71	Spacer, Roller	
7	40	00590-03145-71	Spacer, Roller	
8	4	00590-03190-71	Sleeve, Cylinder Mounting	
9	4	00590-02948-71	Washer, Flat	
11	4	00590-03355-71	Stud, Bearing	
12	2	00590-03354-71	Weldment, Stop	
13	2	00590-03175-71	Screw	
14	2	00590-41865-71	Screw	
16	2	00590-02748-71	Assembly, Wheel, Load (See Figure 7-10.)	
17	2	00590-03433-71	Screw	
18	4	00590-03426-71	Screw	
20	2	00590-03489-71	Adapter, O-Ring	
21	2	00590-03256-71	Axle Assembly	
22	2	00590-00360-71	Ring, Snap	
27	2	00590-00396-71	Washer, Flat	
29	2	00590-03349-71	Anchor, Chain	
30	2	00590-02884-71	Pulley	
32	2	00590-03167-71	Screw	
36	2	00590-03350-71	Anchor, Chain	
37	1	00590-03367-71	Mast, Outer Weldment	A
	1	00590-03368-71	Mast, Outer Weldment	B
	1	00590-03369-71	Mast, Outer Weldment	C
	1	00590-03370-71	Mast, Outer Weldment	D
	1	00590-03371-71	Mast, Outer Weldment	E
	1	00590-03372-71	Mast, Outer Weldment	F
39	1	00590-02733-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	A
	1	00590-02734-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	B
	1	00590-02735-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	C
	1	00590-02736-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	D
	1	00590-02737-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	E
	1	00590-03313-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	F
40	1	00590-03314-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	A
	1	00590-03315-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	B
	1	00590-03316-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	C
	1	00590-03317-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	D
	1	00590-03318-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	E
A= OACH - 88 inches B= OACH - 95 inches C= OACH - 107 inches D= OACH - 118 inches E= OACH - 127 inches F= OACH - 147 inches R= Recommended Spare				

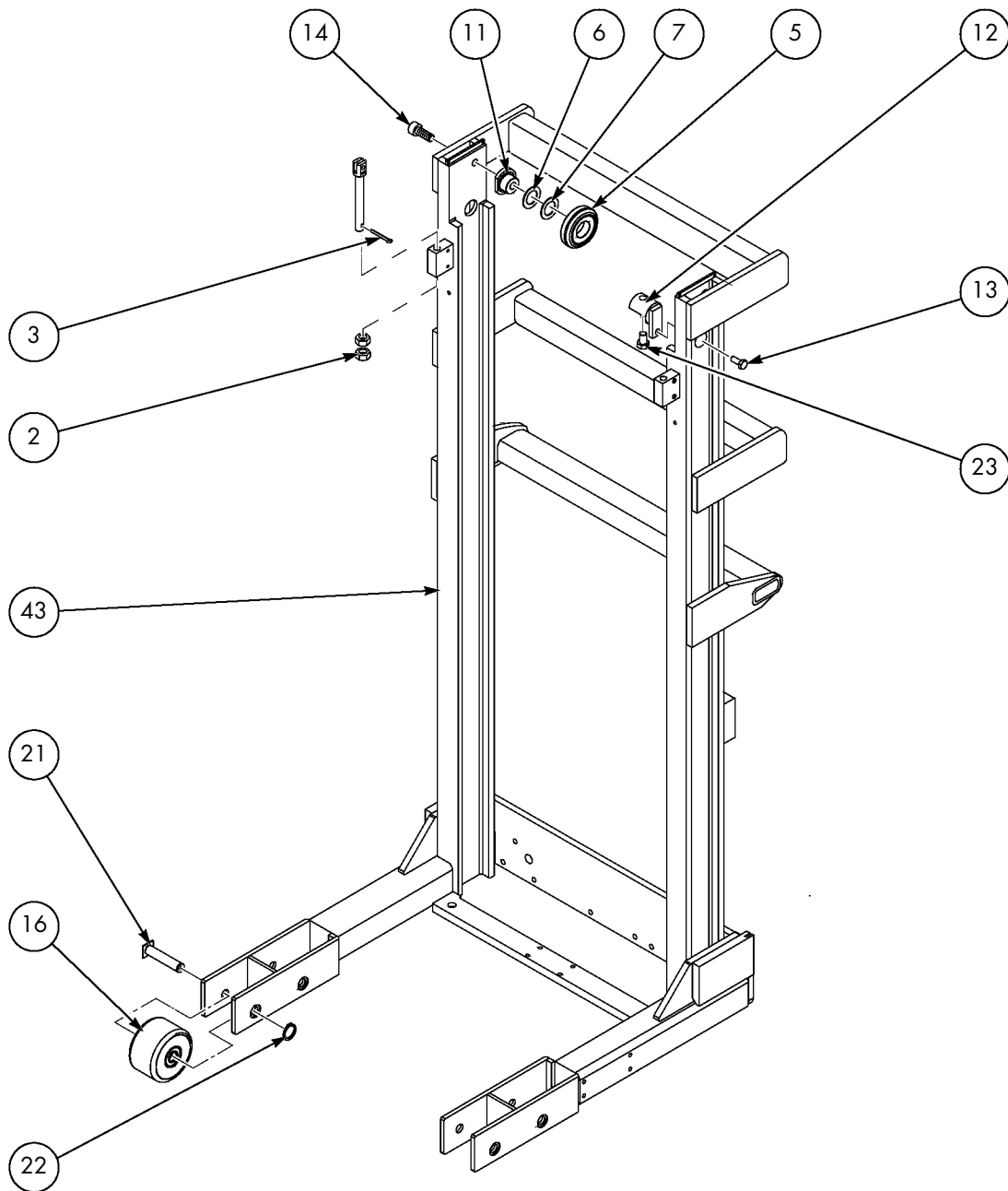
List 7-1: Two Stage Mast Assembly (Sheet 1 of 2)

Two Stage Mast Assembly

FIGURE 7-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-03320-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	F
41		00590-03463-71	Chain Leaf (Stock Length 100 ft.)	
42	4	00590-03464-71	Link, Connecting, Chain	
43	1	NSS	Weldment, Main Frame (Two Stage)	
61	2	00590-03437-71	Valve, Hydraulic Flow Control	
67	2	00590-40361-71	Plate, Cover	
69	8	00590-03085-71	Screw	
70	2	00590-02905-71	Ring, Snap	
74	2	00590-03424-71	Screw	
76	2	00590-41816-71	Washer, End Cap	
77	4	00590-03004-71	Washer (Not Shown)	
A= OACH - 88 inches B= OACH - 95 inches C= OACH - 107 inches D= OACH - 118 inches E= OACH - 127 inches F= OACH - 147 inches R= Recommended Spare				

List 7-1: Two Stage Mast Assembly (Sheet 2 of 2)

Three Stage Mast Assembly

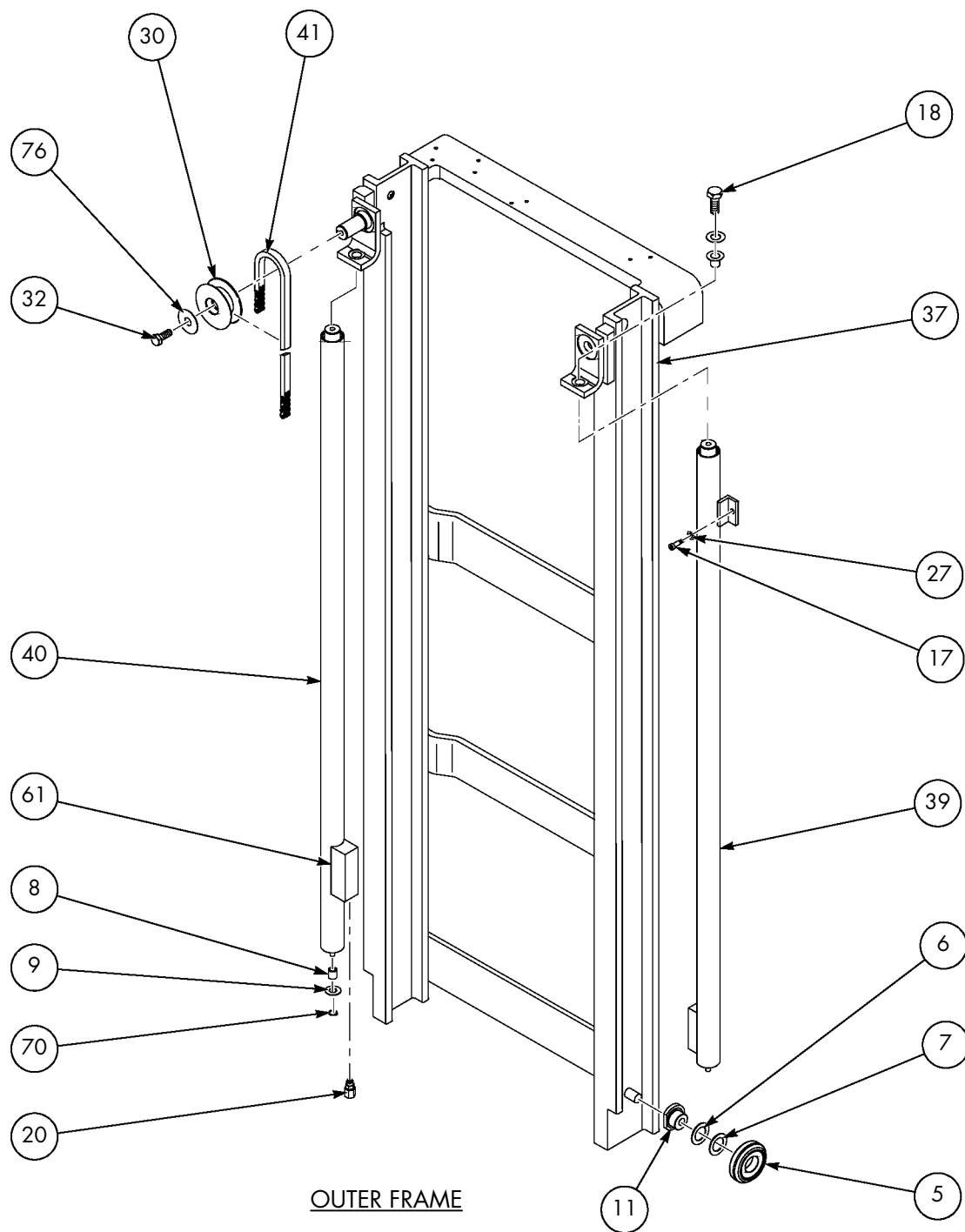


MAIN FRAME

Figure 7-2a: Three Stage Mast Assembly

O114-010-628-AC SHT 1 OF 4

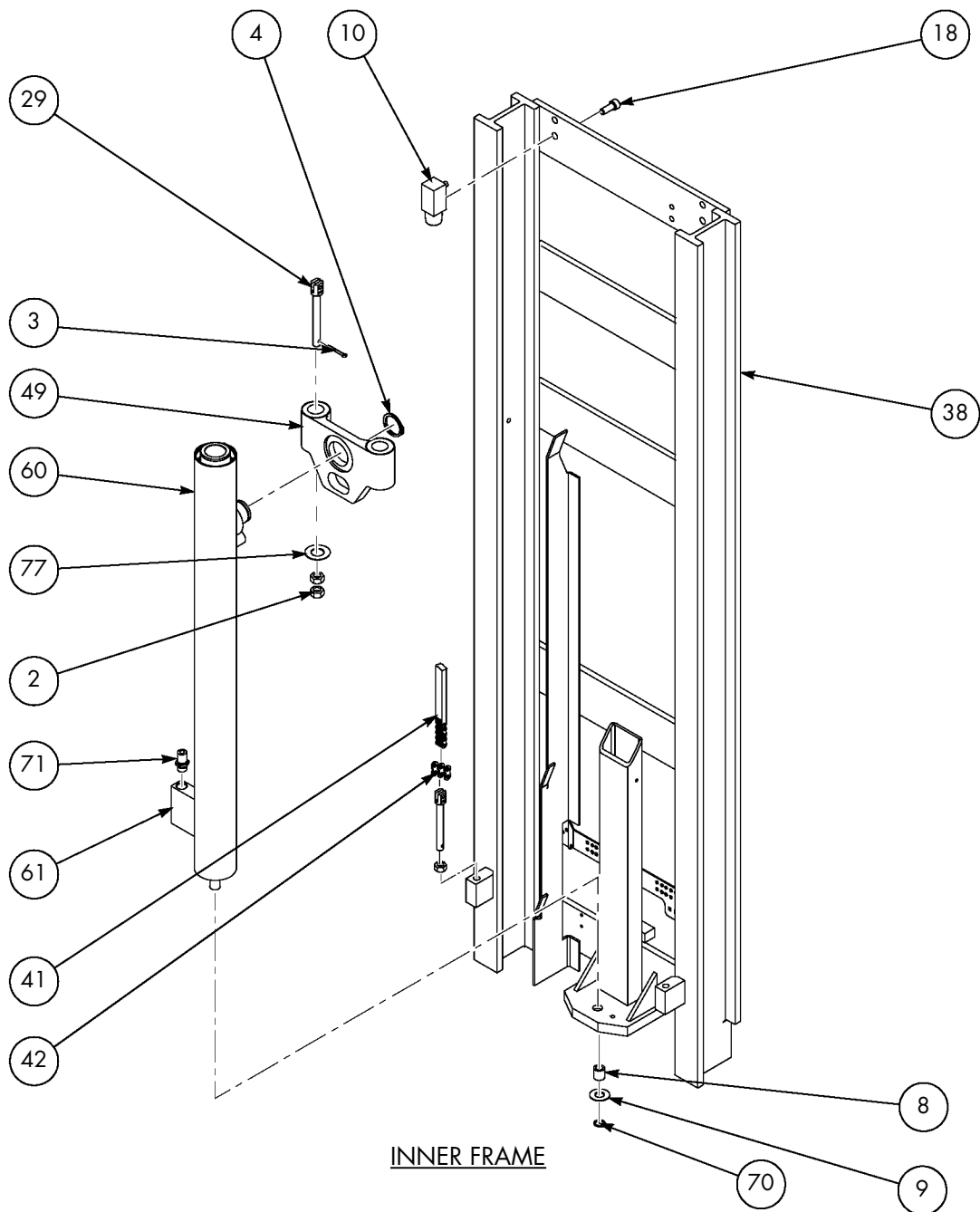
Three Stage Mast Assembly



O114-010-628-AC-2 SHT 2 OF 4

Figure 7-2b: Three Stage Mast Assembly

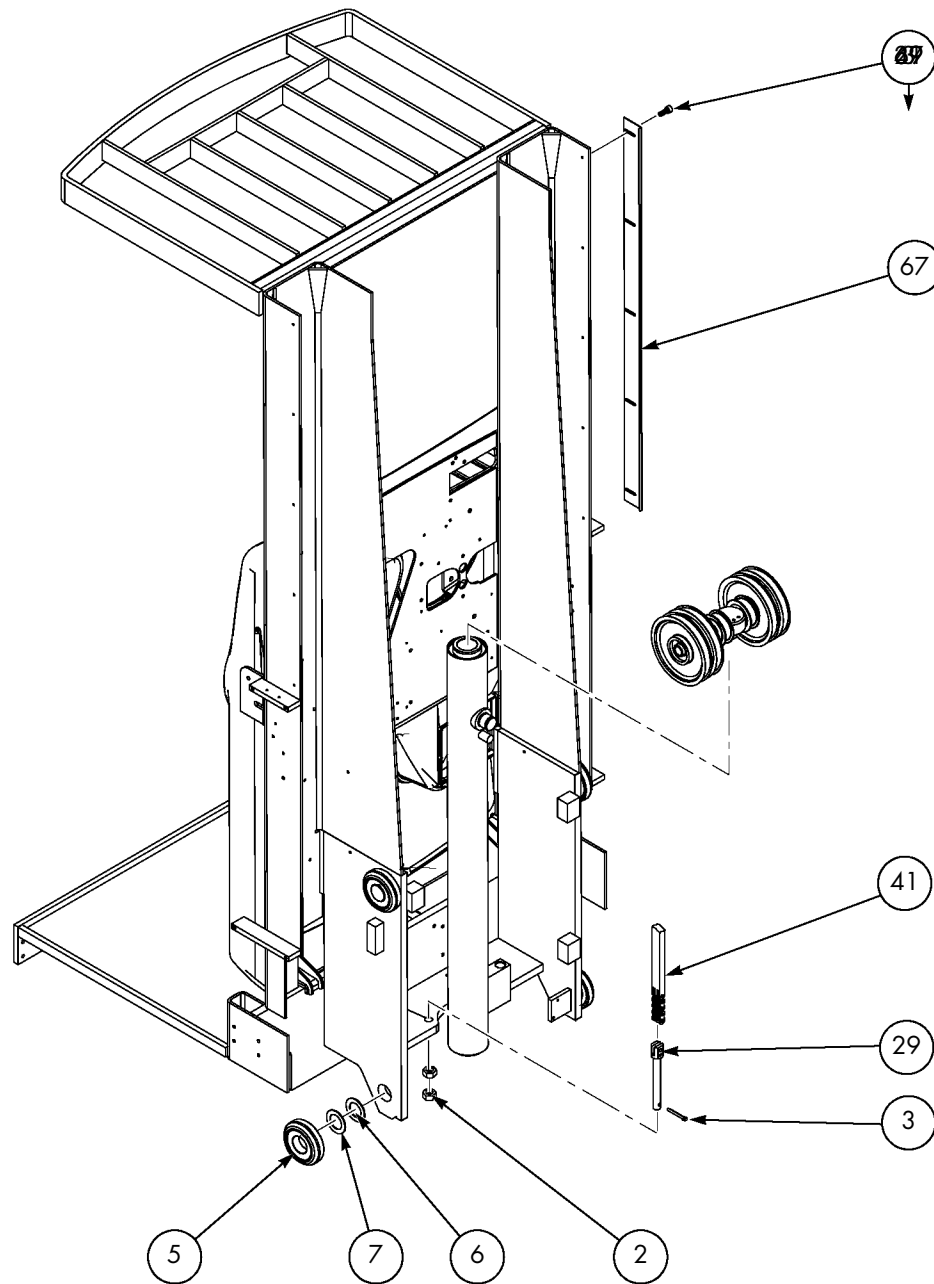
Three Stage Mast Assembly



O114-010-628-AC-3 SHT 3 OF 4

Figure 7-2c: Three Stage Mast Assembly

Three Stage Mast Assembly



O114-010-628-AC-4 SHT 4 OF 4

Figure 7-2d: Three Stage Mast Assembly

Three Stage Mast Assembly

FIGURE 7-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	14	00590-02881-71	Nut	
3	4	00590-02944-71	Pin, Cotter	
4	1	00590-03003-71	Ring, Snap	
5	12	00590-03062-71	Bearing, Mast Roller	R
6	20	00590-03112-71	Spacer, Roller	
7	40	00590-03145-71	Spacer, Roller	
8	5	00590-03190-71	Sleeve, Cylinder Mounting	
9	5	00590-02948-71	Washer, Flat	
10	2	00590-03353-71	Bumper Assembly (See Figure 7-9.)	
11	4	00590-03355-71	Stud, Bearing	
12	2	00590-47129-71	Weldment, Stop	
13	2	00590-03175-71	Screw	
14	2	00590-41865-71	Screw	
16	4	00590-02748-71	Wheel Assembly, Load (See Figure 7-10.)	
17	2	00590-03433-71	Screw	
18	4	00590-03426-71	Screw	
19	2	00590-03468-71	Screw (Not Shown)	
20	2	00590-03489-71	Adapter, O-Ring	
21	4	00590-03256-71	Axle Assembly	
22	4	00590-00360-71	Ring, Snap	
23	2	00590-03425-71	Screw	
27	2	00590-00396-71	Washer, Flat	
29	4	00590-03349-71	Chain, Anchor	
30	2	00590-02884-71	Pulley	
32	2	00590-03167-71	Screw	
37	1	00590-03332-71	Weldment, Mast, Outer	A
	1	00590-03333-71	Weldment, Mast, Outer	B
	1	00590-03334-71	Weldment, Mast, Outer	C
	1	00590-03335-71	Weldment, Mast, Outer	D
	1	00590-03336-71	Weldment, Mast, Outer	E
	1	00590-03337-71	Weldment, Mast, Outer	F
38	1	00590-03338-71	Weldment, Mast, Outer	A
	1	00590-03339-71	Weldment, Mast, Outer	B
	1	00590-03340-71	Weldment, Mast, Outer	C
	1	00590-03341-71	Weldment, Mast, Outer	D
	1	00590-03342-71	Weldment, Mast, Outer	E
	1	00590-03343-71	Weldment, Mast, Outer	F
39	1	00590-02733-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	A
	1	00590-02734-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	B
A= OACH - 88 inches B= OACH - 95 inches C= OACH - 107 inches D= OACH - 118 inches E= OACH - 127 inches F= OACH - 132 inches R= Recommended Spare				

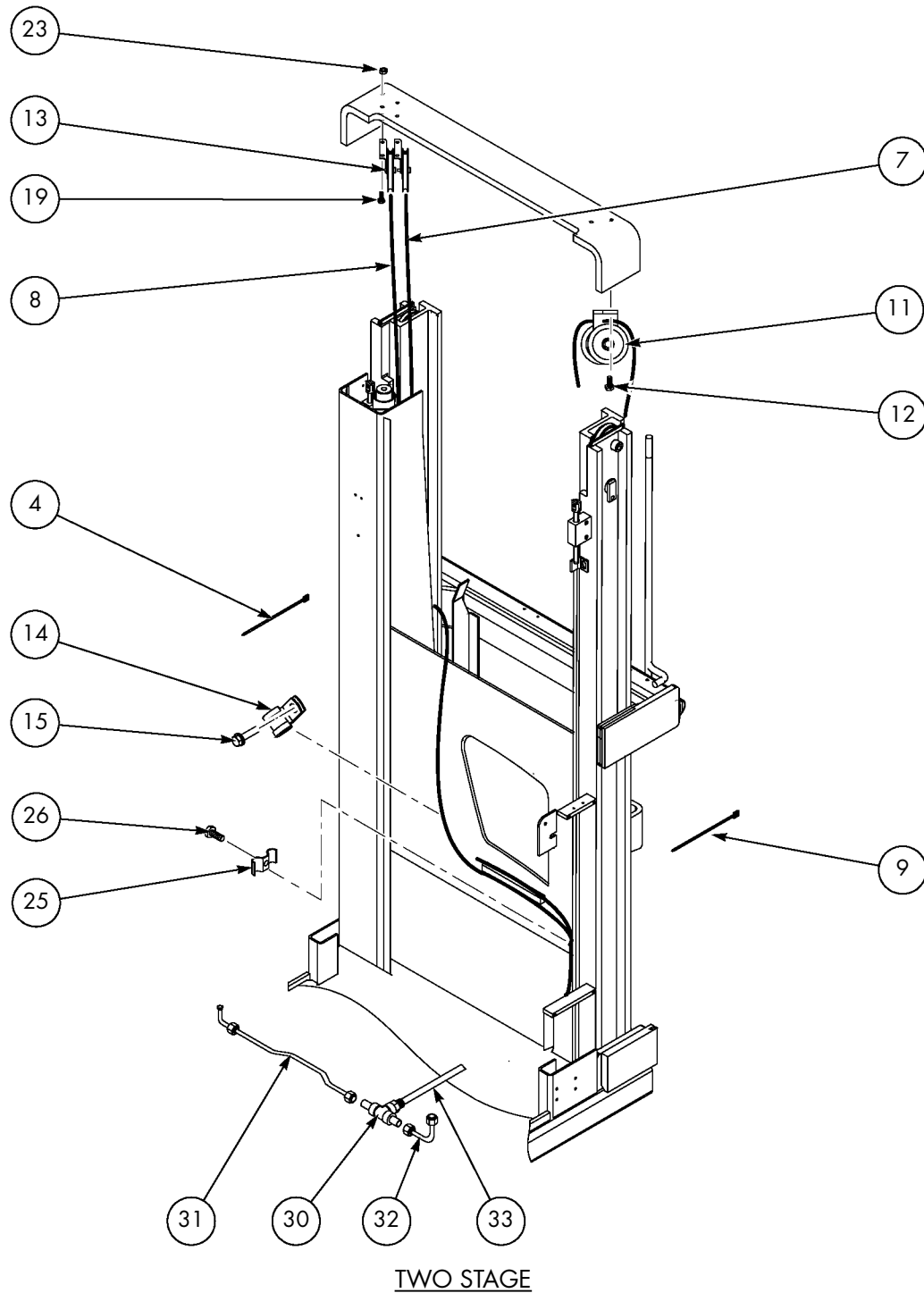
List 7-2: Three Stage Mast Assembly (Sheet 1 of 2)

Three Stage Mast Assembly

FIGURE 7-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-02735-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	C
	1	00590-02736-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	D
	1	00590-02737-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	E
	1	00590-02738-71	Ram Assembly, 1.75 inch, Right-Hand (See Figure 6-8.)	F
40	1	00590-03314-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	A
	1	00590-03315-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	B
	1	00590-03316-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	C
	1	00590-03317-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	D
	1	00590-03318-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	E
	1	00590-03319-71	Ram Assembly, 1.75 inch, Left-Hand (See Figure 6-8.)	F
41		00590-03463-71	Chain, Leaf (Stock Quantity 100 ft.)	
42	8	00590-03464-71	Link, Connecting, Chain	
43	1	00590-03344-71	Weldment, Mast, Main Frame	A
	1	00590-03345-71	Weldment, Mast, Main Frame	B
49	1	00590-42229-71	Pivot, Rocker	
60	1	00590-03322-71	Ram Assembly, 2.5 inch	A
	1	00590-03323-71	Ram Assembly, 2.5 inch	B
	1	00590-03324-71	Ram Assembly, 2.5 inch	C
	1	00590-03325-71	Ram Assembly, 2.5 inch	D
	1	00590-03326-71	Ram Assembly, 2.5 inch	E
	1	00590-03327-71	Ram Assembly, 2.5 inch	F
61	3	00590-03438-71	Valve, Hydraulic Flow Control	
67	2	00590-40361-71	Plate, Cover	
69	10	00590-03001-71	Screw	
70	3	00590-02905-71	Ring, Snap	
71	1	00590-02875-71	Connector, Hydraulic	
76	2	00590-41816-71	Washer, End Cap	A
77	4	00590-03004-71	Washer	A
A= OACH - 88 inches B= OACH - 95 inches C= OACH - 107 inches D= OACH - 118 inches E= OACH - 127 inches F= OACH - 132 inches R= Recommended Spare				

List 7-2: Three Stage Mast Assembly (Sheet 2 of 2)

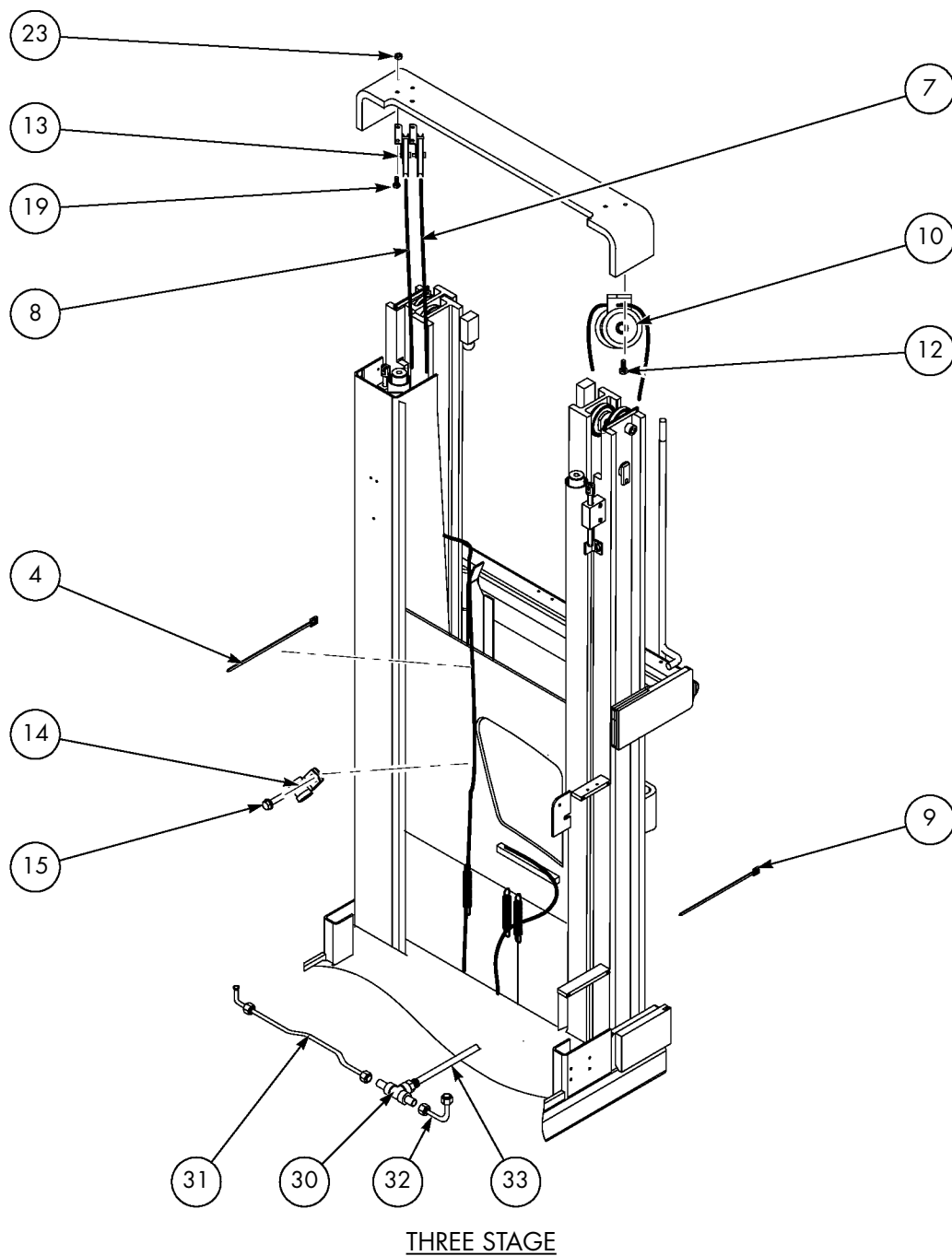
Two and Three Stage Mast Cables, Hoses and Pulleys



O114-021-057-B-1 SHT 1 OF 6

Figure 7-3a: Two and Three Stage Mast Cables, Hoses and Pulleys

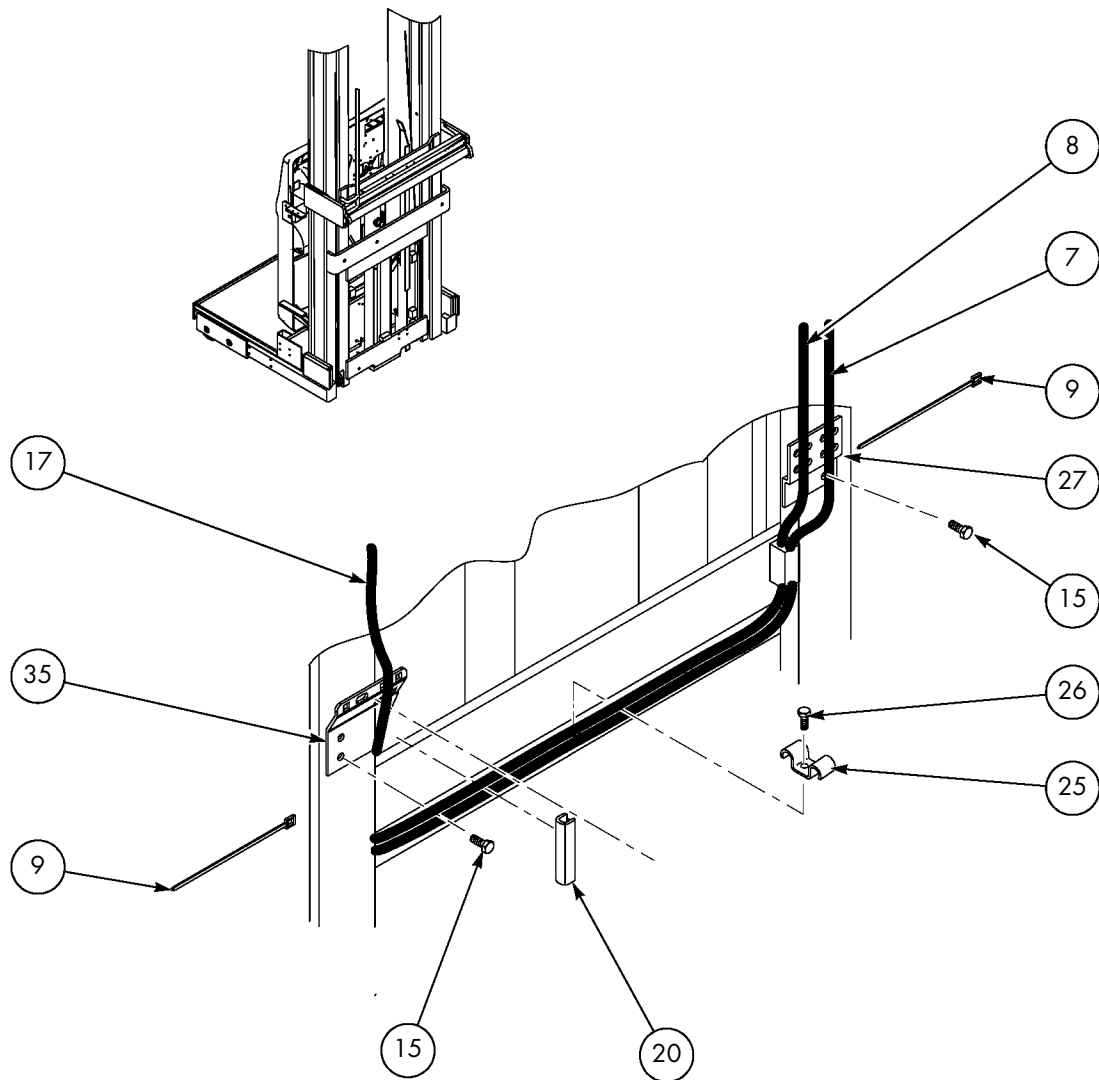
Two and Three Stage Mast Cables, Hoses and Pulleys



O114-021-057-B-2 SHT 2 OF 6

Figure 7-3b: Two and Three Stage Mast Cables, Hoses and Pulleys

Two and Three Stage Mast Cables, Hoses and Pulleys

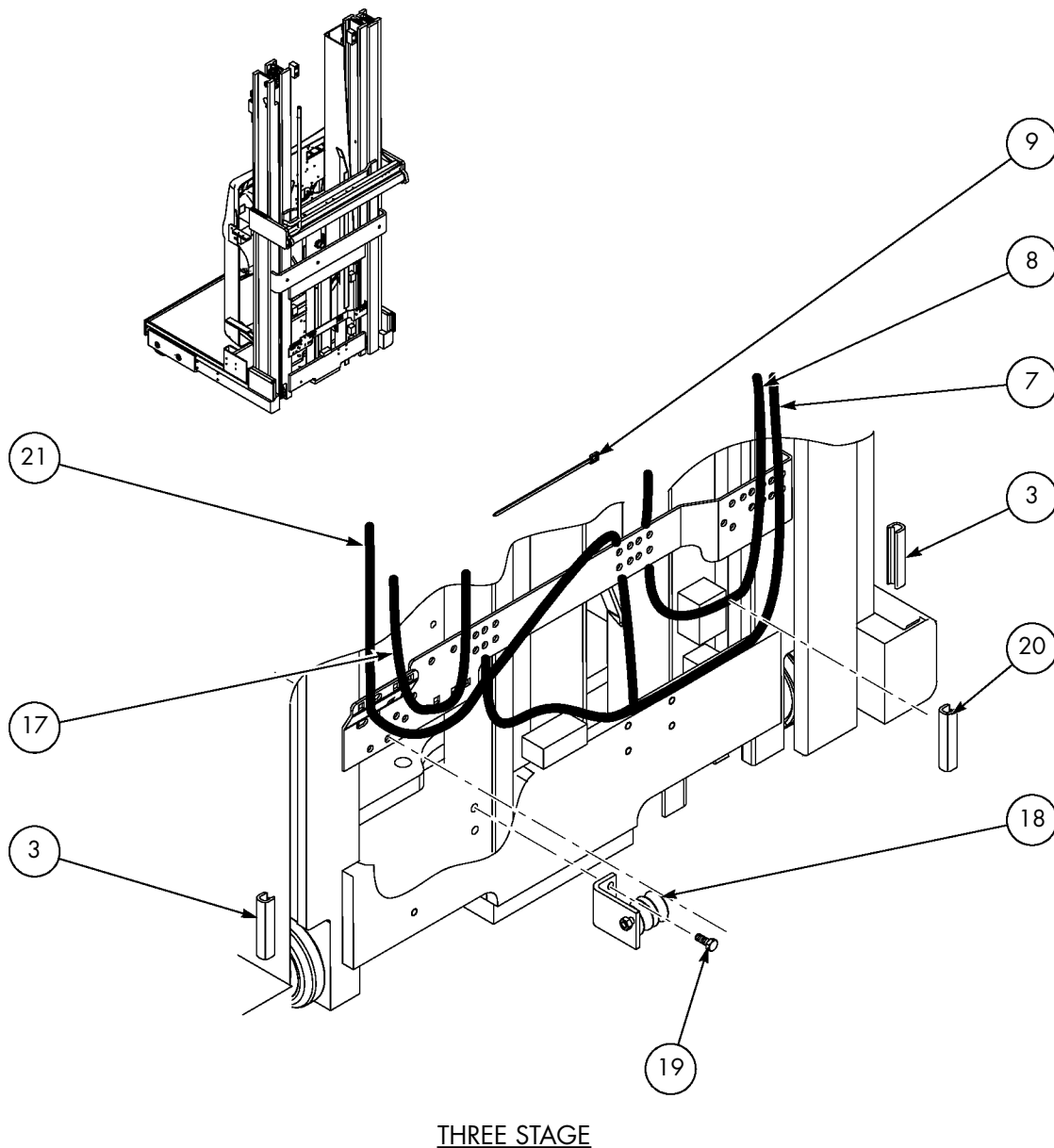


TWO STAGE

O114-021-057-B-3 SHT 3 OF 6

Figure 7-3c: Two and Three Stage Mast Cables, Hoses and Pulleys

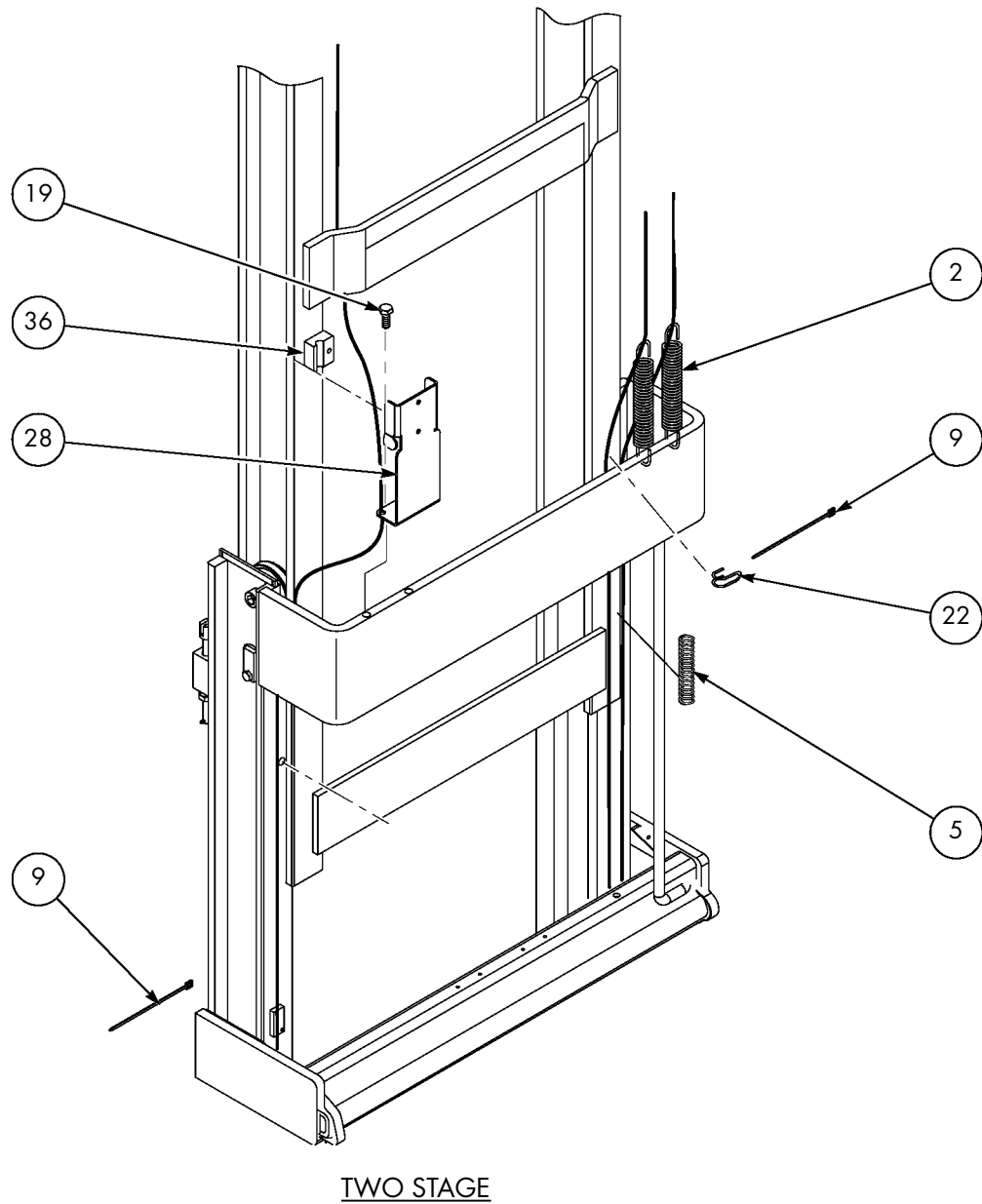
Two and Three Stage Mast Cables, Hoses and Pulleys



O114-021-057-B-4 SHT 4 OF 6

Figure 7-3d: Two and Three Stage Mast Cables, Hoses and Pulleys

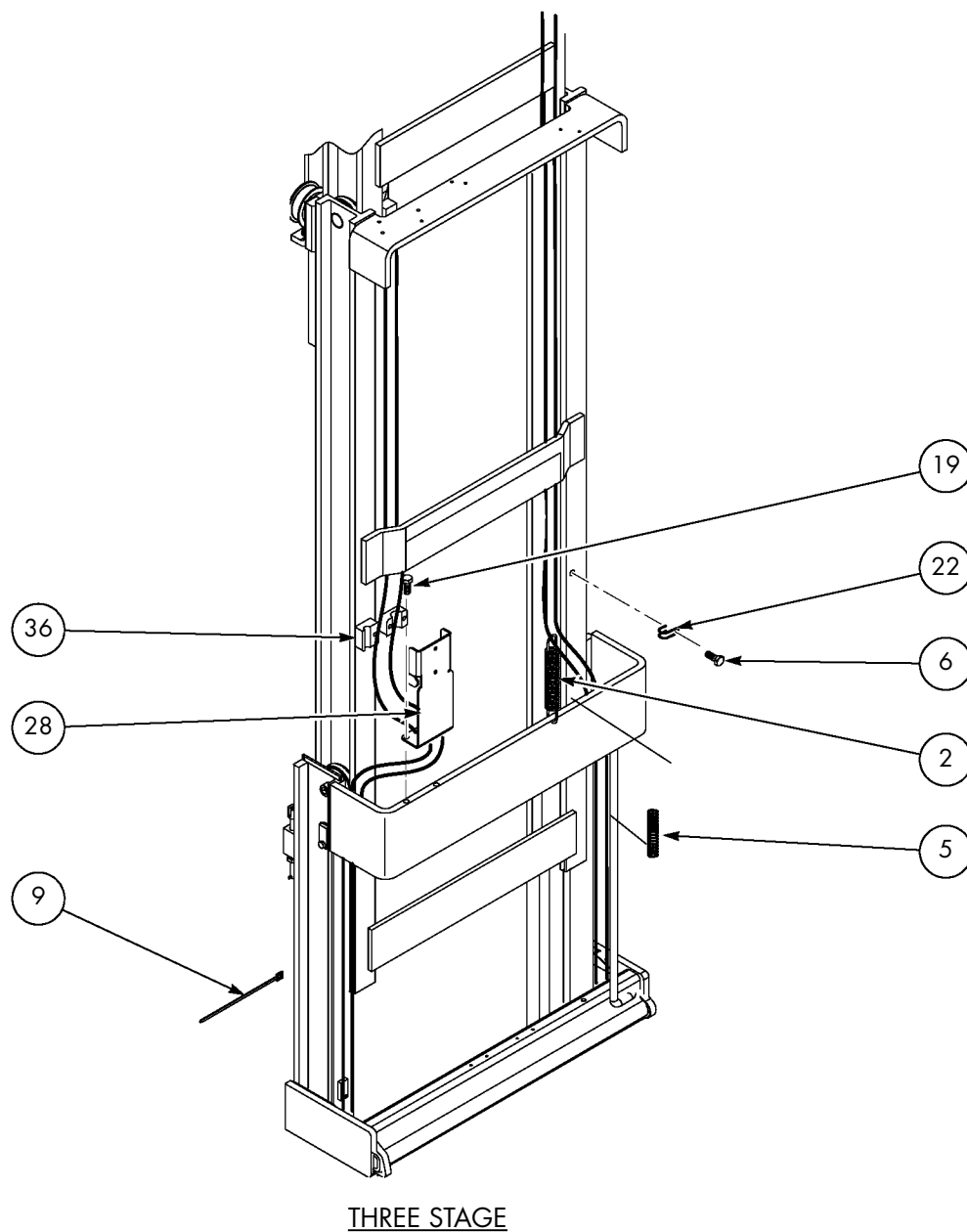
Two and Three Stage Mast Cables, Hoses and Pulleys



O114-021-057-B-5 SHT 5 OF 6

Figure 7-3e: Two and Three Stage Mast Cables, Hoses and Pulleys

Two and Three Stage Mast Cables, Hoses and Pulleys



O114-021-057-C-6 SHT 6 OF 6

Figure 7-3f: Two and Three Stage Mast Cables, Hoses and Pulleys

Two and Three Stage Mast Cables, Hoses and Pulleys

FIGURE 7-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	5	00590-02882-71	Spring, Tension	R
3	2	00590-03297-71	Guard, Cable	A
4	1	00590-00811-71	Cable Tie	
5	1.2	00590-39850-71	Guard, Hose	
6	3-11	00590-03085-71	Screw	
7	1	00590-03146-71	Cable Assembly (210 inch, 88 OACH)	A
	1	00590-03147-71	Cable Assembly (244 inch, 95 OACH)	A
	1	00590-03148-71	Cable Assembly (248 inch, 107 OACH)	A
	1	00590-03149-71	Cable Assembly (270 inch, 118 OACH)	A
	1	00590-03150-71	Cable Assembly (288 inch, 127 OACH)	A
	1	00590-03151-71	Cable Assembly (328 inch, 147 OACH)	A
	1	00590-03152-71	Cable Assembly (275 inch, 88 OACH)	B
	1	00590-03153-71	Cable Assembly (297 inch, 95 OACH)	B
	1	00590-03154-71	Cable Assembly (333 inch, 107 OACH)	B
	1	00590-03155-71	Cable Assembly (263 inch, 118 OACH)	B
	1	00590-03156-71	Cable Assembly (393 inch, 127 OACH)	B
	1	00590-03157-71	Cable Assembly (408 inch, 132 OACH)	B
8	1	00590-03191-71	Cable Assembly (189 inch, 88 OACH)	A
	1	00590-03192-71	Cable Assembly (203 inch, 88 OACH)	A
	1	00590-03193-71	Cable Assembly (227 inch, 107 OACH)	A
	1	00590-03194-71	Cable Assembly (249 inch, 118 OACH)	A
	1	00590-03195-71	Cable Assembly (267 inch, 127 OACH)	A
	1	00590-03196-71	Cable Assembly (307 inch, 147 OACH)	A
	1	00590-03197-71	Cable Assembly (267 inch, 88 OACH)	B
	1	00590-03198-71	Cable Assembly (288 inch, 95 OACH)	B
	1	00590-03199-71	Cable Assembly (324 inch, 107 OACH)	B
	1	00590-03200-71	Cable Assembly (357 inch, 118 OACH)	B
	1	00590-03201-71	Cable Assembly (384 inch, 127 OACH)	B
	1	00590-03202-71	Cable Assembly (399 inch, 132 OACH)	B
9	20	00590-00556-71	Cable Tie	
10	1	00590-03347-71	Pulley Assembly (See Figure 7-6.)	A
11	1	00590-42201-71	Pulley Assembly (See Figure 7-6.)	B
12	4	00590-03113-71	Screw	
13	2	00590-02744-71	Pulley Assembly (See Figure 7-8.)	
14	2	00590-03242-71	Clamp, Loop Cushioned	
15	2	00590-03591-71	Screw	
17	1	00590-03290-71	Hose Assembly (171.88 inch, 88 OACH)	B
	1	00590-03291-71	Hose Assembly (185.67 inch, 95 OACH)	B
	1	00590-03292-71	Hose Assembly (209.31 inch, 107 OACH)	B
	1	00590-03293-71	Hose Assembly (231.00 inch, 118 OACH)	B
	1	00590-03294-71	Hose Assembly (248.71 inch, 127 OACH)	B
	1	00590-03295-71	Hose Assembly (258.56 inch, 132 OACH)	B
A= Two Stage Mast Only B= Three Stage Mast Only R= Recommended Spare				

List 7-3: Two and Three Stage Mast Cables, Hoses and Pulleys (Sheet 1 of 2)

Two and Three Stage Mast Cables, Hoses and Pulleys

FIGURE 7-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-03951-71	Hose Assembly (169 inch 88 OACH)	A
	1	00590-03952-71	Hose Assembly (183 inch 95 OACH)	A
	1	00590-03953-71	Hose Assembly (207 inch 107 OACH)	A
	1	00590-03954-71	Hose Assembly (229 inch 118 OACH)	A
	1	00590-03955-71	Hose Assembly (247 inch 127 OACH)	A
	1	00590-03956-71	Hose Assembly (287 inch 147 OACH)	A
18	2	00590-02743-71	Pulley Assembly (See Figure 7-7.)	B
19	12	00590-02960-71	Screw	
20	1	00590-03406-71	Guard, Cable	
21	1	00590-42202-71	Hose Assembly (171.88 inch, 88 OACH)	B
	1	00590-42203-71	Hose Assembly (185.67 inch, 95 OACH)	B
	1	00590-42204-71	Hose Assembly (209.31 inch, 107 OACH)	B
	1	00590-42205-71	Hose Assembly (231.00 inch, 118 OACH)	B
	1	00590-42206-71	Hose Assembly (248.71 inch, 127 OACH)	B
	1	00590-42208-71	Hose Assembly (288.11 inch, 147 OACH)	B
22	3-11	00590-03252-71	Clamp, Cable	
23	2	00590-02810-71	Nut	
25	3	00590-42210-71	Clip	A
26	4	00590-02917-71	Screw	
27	1	00590-42211-71	Bracket, Cable	A
28	1	00590-42212-71	Bracket	
29	1	00590-42213-71	Hose Clamp Kit (Not Shown)	B, R
30	1	00590-03487-71	Tee, 1/2 inch	
31	1	00590-03302-71	Line, Hydraulic Assembly	
32	1	00590-03303-71	Line, Hydraulic Assembly	
33	1	00590-03233-71	Hose Assembly	
35	1	00590-42214-71	Bracket	A
36	1	00590-42215-71	Hose Clamp Kit	R
A= Two Stage Mast Only B= Three Stage Mast Only R= Recommended Spare				

List 7-3: Two and Three Stage Mast Cables, Hoses and Pulleys (Sheet 2 of 2)

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Fork Assembly, Standard

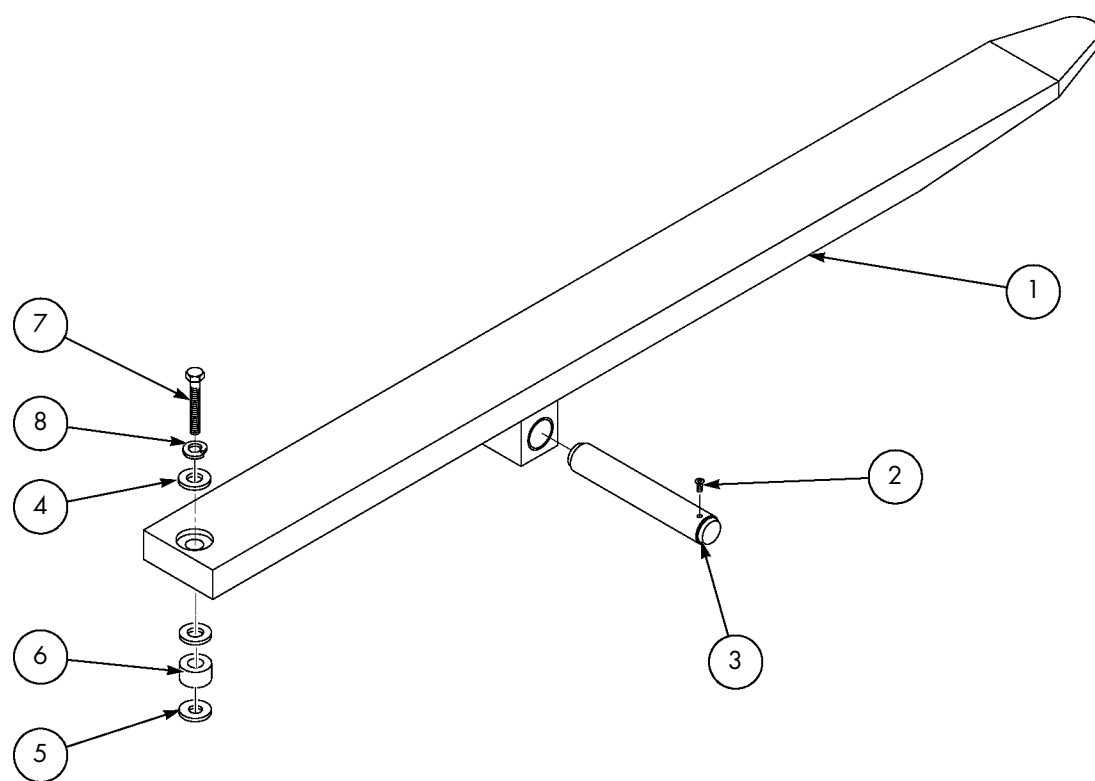


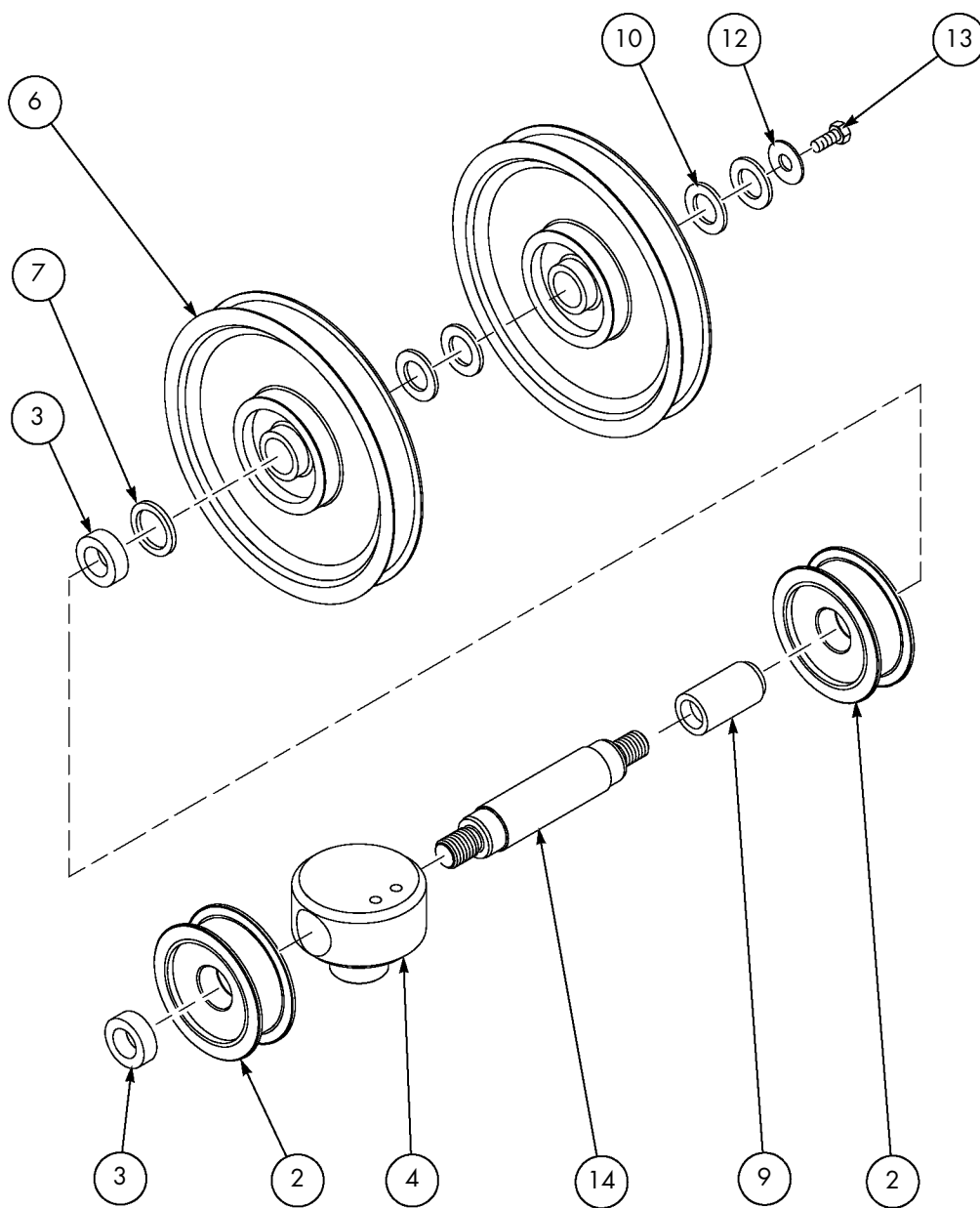
Figure 7-4: Fork Assembly, Standard

O114019-218-E

FIGURE 7-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	00590-02803-71	Fork Weldment	A
	2	00590-02804-71	Fork Weldment	B
	2	00590-02805-71	Fork Weldment	C
	2	00590-02806-71	Fork Weldment	D
	2	00590-02807-71	Fork Weldment	E
	2	00590-02808-71	Fork Weldment	F
2	2	00590-02883-71	Screw	
3	2	00590-02946-71	Pin, Fork	
4	4	00590-02948-71	Washer, Flat	
5	4	00590-00064-71	Washer	
6	2	00590-03114-71	Spacer	
7	2	00590-03158-71	Screw	
8	2	00590-03203-71	Washer	
A= Fork Length - 30 inches B= Fork Length - 36 inches C= Fork Length - 40 inches D= Fork Length - 42 inches E= Fork Length - 48 inches F= Fork Length - 54 inches G= Fork Length - 60 inches				

List 7-4: Fork Assembly, Standard

End Cap Pulley Assembly

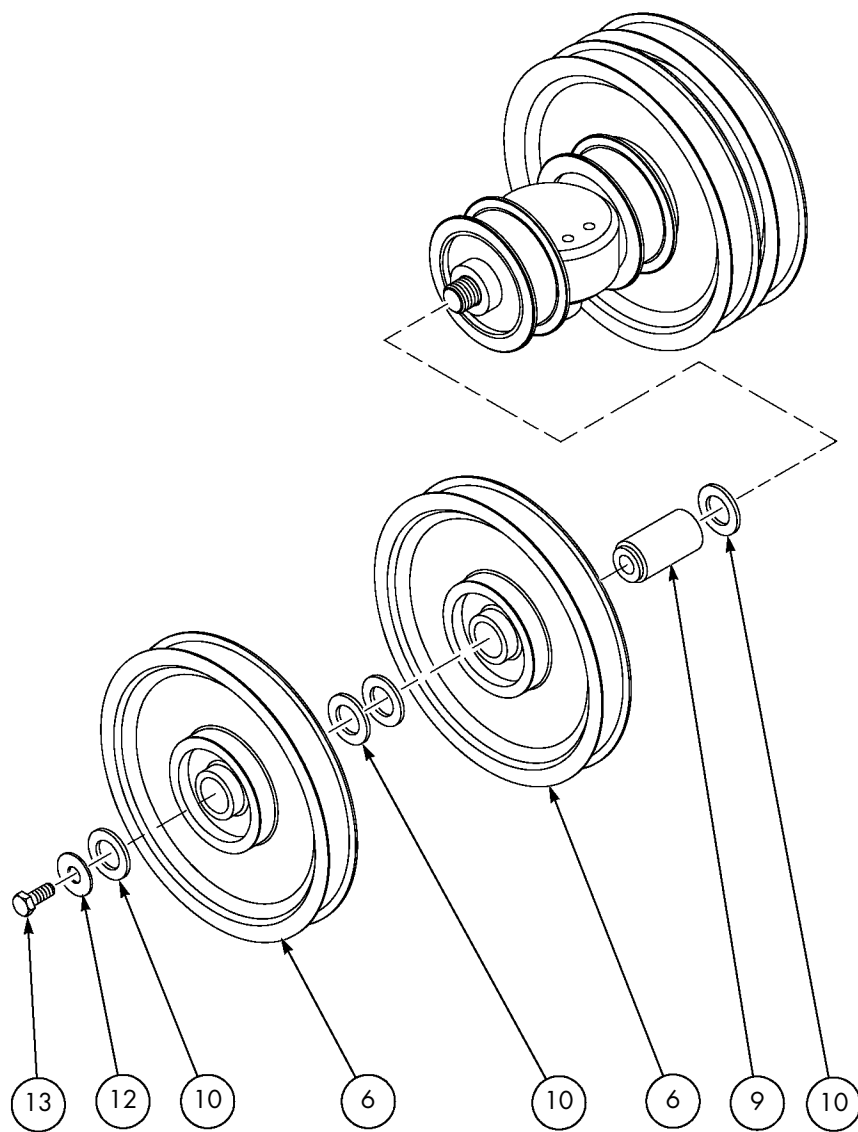


STANDARD

O114-018-720-A-1 SHT 1 OF 3

Figure 7-5a: End Cap Pulley Assembly

End Cap Pulley Assembly

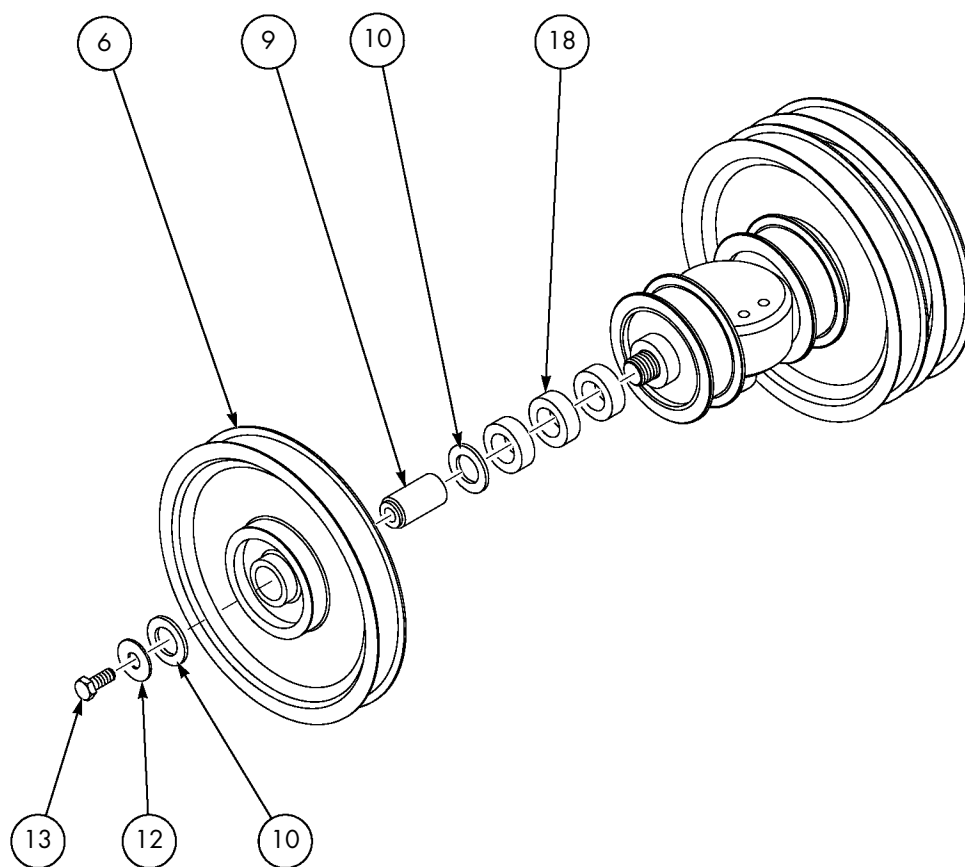


ELECTRIC STEER WITH OPTION

O114-018-720-A-2 SHT 2 OF 3

Figure 7-5b: End Cap Pulley Assembly

End Cap Pulley Assembly



ELECTRIC STEER WITHOUT OPTION

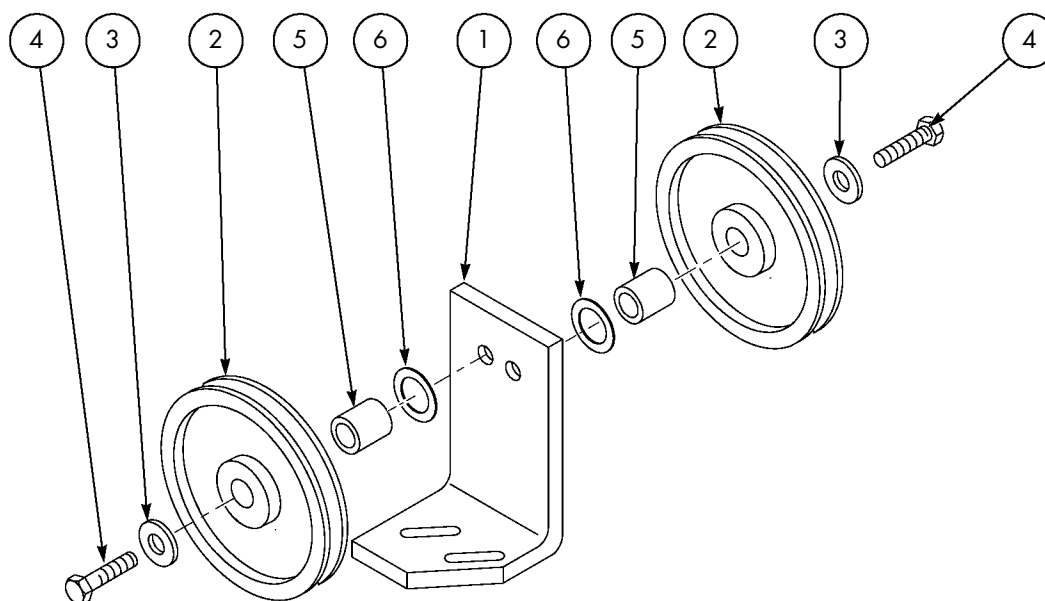
Figure 7-5c: End Cap Pulley Assembly

O114-018-720-A-3 SHT 3 OF 3

FIGURE 7-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	2	00590-02884-71	Pulley	
3	2	00590-02947-71	Spacer, Pulley	
4	1	00590-47130-71	Cap	
6	3	00590-03115-71	Pulley, Hose	
7	7	00590-03159-71	Shim	
9	2	00590-03311-71	Rod, Extension	
10	6	00590-03351-71	Spacer, Pulley	
12	2	00590-03483-71	Washer, Flat	
13	2	00590-03167-71	Screw	
14	1	00590-03312-71	Shaft, Pulley	
18	3	00590-03352-71	Spacer, Pulley	

List 7-5: End Cap Pulley Assembly

Pulley Assembly



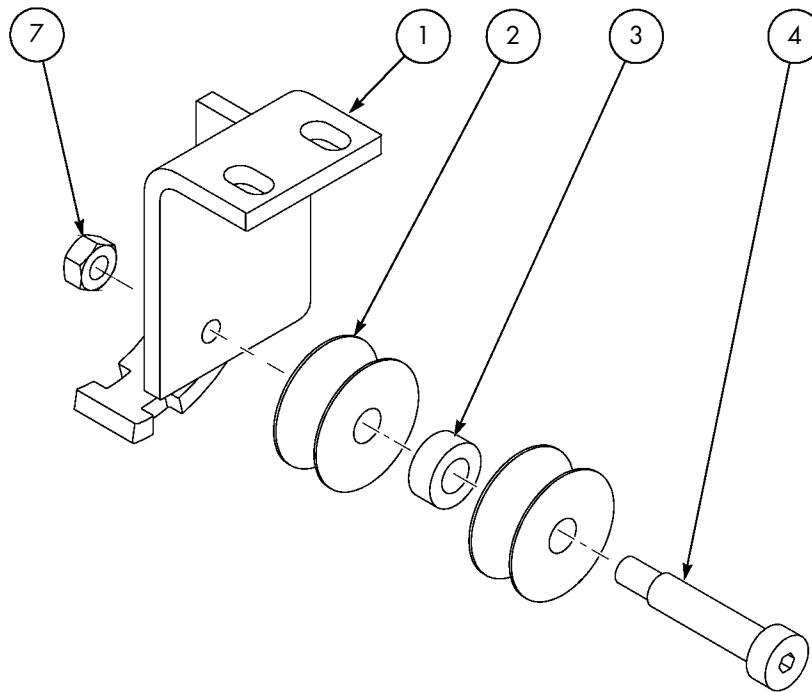
O114018-839

Figure 7-6: Pulley Assembly

FIGURE 7-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-03347-71	Pulley Assembly (Two-Stage)	
		00590-42201-71	Pulley Assembly (Three-Stage)	
1	1	00590-41847-71	Bracket, Pulley	
2	1-2	00590-02885-71	Pulley, Lift Hose	
3	2	00590-02948-71	Washer	
4	2	00590-03006-71	Screw	
5	2	00590-03064-71	Spacer	
6	2	00590-00359-71	Spacer	

List 7-6: Pulley Assembly

Pulley Assembly



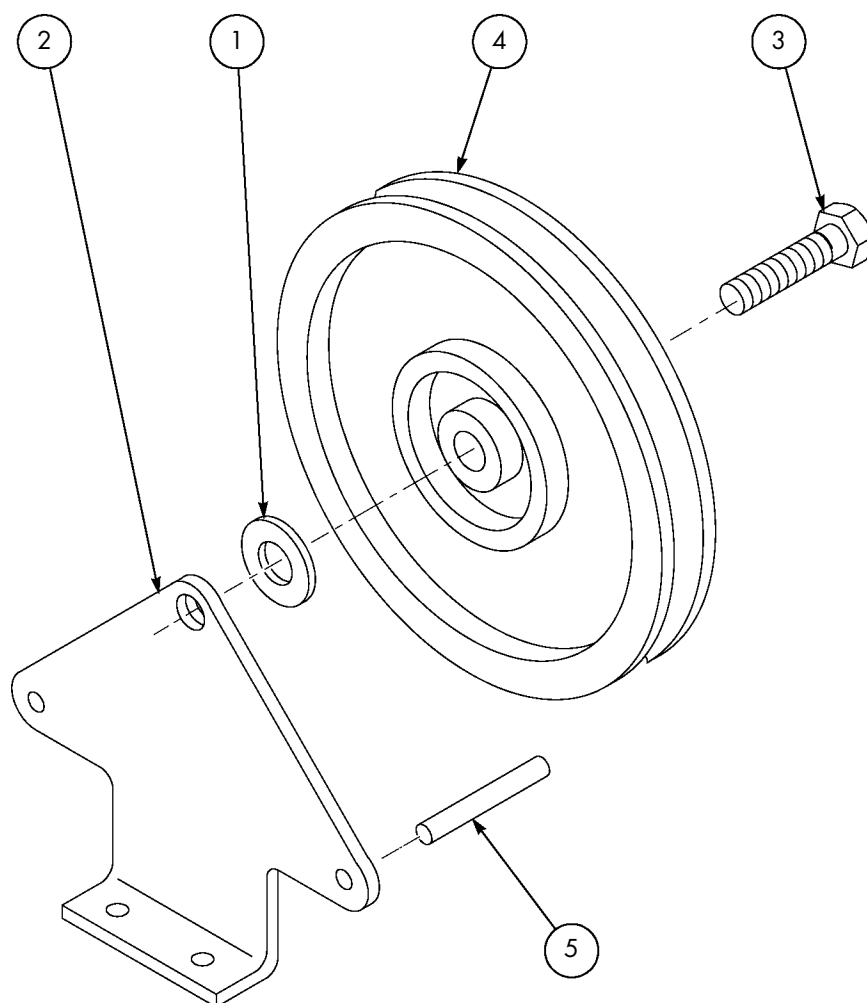
O114018-617

Figure 7-7: Pulley Assembly

FIGURE 7-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02743-71	Pulley Assembly	
1	1	00590-02811-71	Bracket, Pulley	A
	1	00590-02812-71	Bracket, Pulley	B
2	2	00590-02887-71	Pulley, Cable	
3	1	00590-02950-71	Spacer, Pulley	
4	1	00590-03008-71	Screw	
7	1	00590-03435-71	Nut	
A= with Auxiliary Lift B= without Auxiliary Lift				

List 7-7: Pulley Assembly

Pulley Assembly



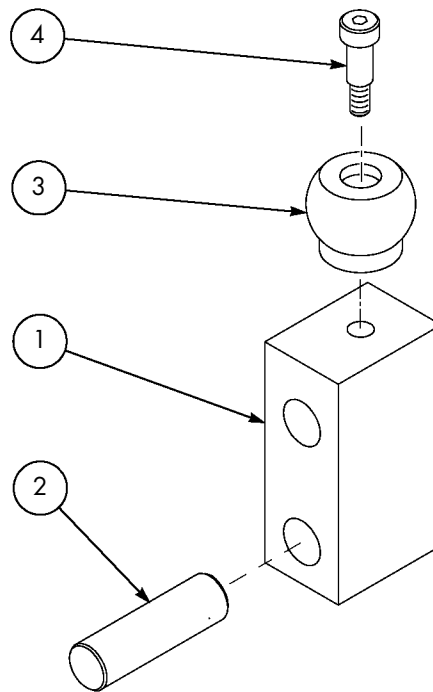
O114018-058

Figure 7-8: Pulley Assembly

FIGURE 7-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-02744-71	Pulley Assembly	
1	1	00590-03599-71	Washer	
2	1	00590-02888-71	Keeper, Guard	
3	1	00590-02951-71	Screw	
4	1	00590-03007-71	Pulley, Cable	
5	2	00590-03066-71	Pin, Dowel	

List 7-8: Pulley Assembly

Bumper Assembly



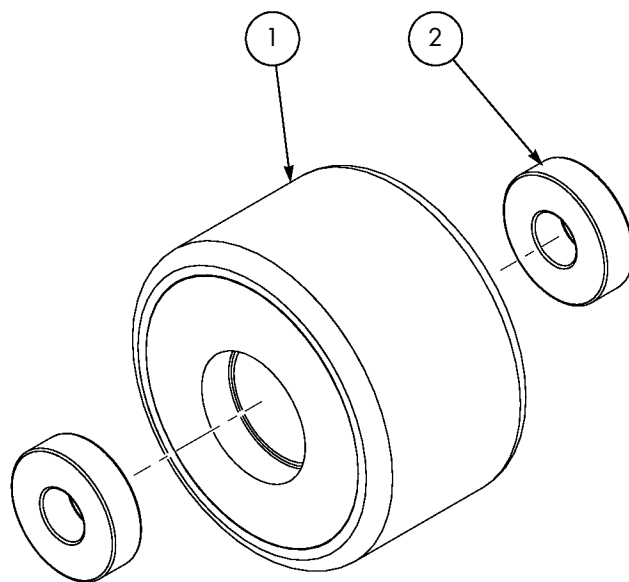
O114-018-850

Figure 7-9: Bumper Assembly

FIGURE 7-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-03353-71	Bumper Assembly	
1	1	00590-02817-71	Stop, Mast	
2	1	00590-02892-71	Pin	
3	1	00590-02955-71	Bumper, Carriage	
4	1	00590-03013-71	Screw	

List 7-9: Bumper Assembly

Load Wheel Assembly



O114-006-129

Figure 7-10: Load Wheel Assembly

FIGURE 7-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-46386-71	Load Wheel Assembly (Std Poly)	
1	1	00590-47132-71	Wheel, Load	R
2	2	00590-02893-71	Bearing	R
	1	00590-47133-71	Load Wheel Assembly (Electrical Conductive Poly)	
1	1	00590-47134-71	Wheel, Load	R
2	2	00590-02893-71	Bearing	R
R= Recommended Spare				

List 7-10: Load Wheel Assembly

APPENDIX A Alphabetical Parts Index

Description	Part No.	Page	Description	Part No.	Page
Adapter, Bearing	00590-03459-71	6-19	Bearing, Sleeve, Flanged	00590-03072-71	2-17
Adapter, Filter	00590-03189-71	6-5	Bearing, Sleeve	00590-00920-71	2-39
Adapter, Housing	00590-03055-71	6-11	Bearing, Sleeve	00590-00920-71	3-7
Adapter, Housing	00590-03055-71	6-7	Bearing, Sleeve	00590-02701-71	5-76
Adapter, O-Ring	00590-03489-71	7-11	Bearing, Sleeve	00590-03259-71	5-75
Adapter, O-Ring	00590-03489-71	7-5	Bearing, Sleeve	00590-03260-71	5-75
Adapter	00590-03596-71	6-17	Bearing, Sleeve	00590-03420-71	5-75
Alarm, Horn	00590-40580-71	5-67	Bearing, Sleeve	00590-03623-71	5-75
Anchor, Chain	00590-03349-71	7-5	Bearing	00590-02835-71	3-9
Anchor, Chain	00590-03350-71	7-5	Bearing	00590-02893-71	7-32
Anchor, Plastic Mount	00590-00557-71	5-61	Bearing	00590-02893-71	7-32
Anchor, Plastic Mount	00590-03137-71	5-55	Bearing	00590-03419-71	4-5
Anchor, Plastic Mount	00590-03137-71	5-59	Bearing	00590-39699-71	2-31
Angle, Support Roller	00590-03121-71	2-29	Bearing	00590-39701-71	2-31
Armature/Fan Assembly	00590-47118-71	5-69	Bearing	00590-39736-71	2-36
Armature	00590-39838-71	5-71	Bearing	00590-39736-71	2-39
Assembly, Switch Roller	00590-40744-71	2-43	Bearing	00590-39736-71	2-44
Assembly, Wheel, Guide	00590-03209-71	2-27	Bearing	00590-46101-71	2-19
Assembly, Wheel, Load	00590-02748-71	7-5	Belt (Extra Large 48 in. to 56 in. Waist)	00590-05248-71	2-53
Axle Assembly	00590-03256-71	7-11	Belt (Large 40 in. to 48 in. Waist)	00590-05247-71	2-53
Axle Assembly	00590-03256-71	7-5	Belt (Med. 34 in. To 42 in. Waist)	00590-05246-71	2-53
Axle, Wheel	00590-39694-71	2-31	Belt (Small 30 in. to 38 in. Waist)	00590-05245-71	2-53
Axle, Wheel	00590-41796-71	2-36	Bezel	00590-03393-71	5-13
Axle, Wheel	00590-41796-71	2-44	Block, Bearing	00590-03170-71	3-7
Ball, 9/16 Dia.	00590-01693-71	4-5	Block, Friction	00590-46374-71	3-9
Ball, Check	00590-02943-71	6-5	Blower, Electric	00590-03450-71	5-41
Ball, Joint	00590-41869-71	2-17	Blower, Electric	00590-03450-71	5-45
Ball	00590-03572-71	6-5	Bolt, Drive Tire	00590-03552-71	4-5
Ballast, Light	00590-03452-71	5-41	Bolt, Eye	00590-03573-71	3-9
Bar, Bus	00590-03386-71	5-15	Bolt	00590-41863-71	5-10
Base, Mounting	00590-39797-71	5-31	Bracket, Cable	00590-03131-71	5-10
Battery Connector Assembly	00590-02720-71	5-33	Bracket, Cable	00590-03300-71	5-9
Battery Gate, Left-Hand (QTY 2 for Bat. Compt Size (inch)	00590-02820-71	2-13	Bracket, Cable	00590-42211-71	7-20
32.5H x 36.75W x 14.5D	00590-02820-71	2-13	Bracket, Control Box	00590-03284-71	5-13
Battery Gate, Right-Hand	00590-02750-71	2-13	Bracket, Control Handle	00590-47123-71	5-75
Battery Handling System, 24 Volt.	00590-47103-71	2-55	Bracket, Cylinder	00590-03251-71	6-17
Battery Handling System, 36 Volt.	00590-03537-71	2-55	Bracket, Fire Extinguisher	00590-42303-71	2-49
Battery Stand, Double, 18 in. x 42 in. x 5.5 - 7 in.	00590-03535-71	2-55	Bracket, Heater	00590-41906-71	5-65
Battery Stand, Single, 18 in. x 42 in. x 5.5 - 7 in.	00590-03534-71	2-55	Bracket, Light	00590-41840-71	5-31
Bearing Set	00590-41862-71	4-7	Bracket, Light	00590-02868-71	5-51
Bearing, Ball	00590-02833-71	2-27	Bracket, Light	00590-03136-71	5-45
Bearing, Ball	00590-02835-71	2-29	Bracket, Light	00590-41840-71	2-10
Bearing, Ball	00590-02835-71	2-31	Bracket, Motor	00590-03298-71	5-10
Bearing, Ball	00590-02835-71	2-47	Bracket, Potentiometer	00590-41920-71	5-75
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Bearing, Commutator End	00590-04568-71	5-71	Bracket, Pulley	00590-02812-71	7-29
Bearing, Cone	00590-39765-71	4-7	Bracket, Pulley	00590-41847-71	7-28
Bearing, Cone	00590-41860-71	4-7	Bracket, Reservoir	00590-41853-71	6-3
Bearing, Cone	00590-41861-71	4-7	Bracket, Sensor Mounting	00590-02774-71	5-27
Bearing, Cone	00590-47105-71	4-7	Bracket, Sensor	00590-03266-71	3-7
Bearing, Cup	00590-39776-71	4-7	Bracket, Steer	00590-03210-71	3-7
Bearing, Drive End	00590-02996-71	5-69	Bracket, Thermostat	00590-39818-71	5-65
Bearing, Drive End	00590-39834-71	5-71	Bracket	00590-02867-71	5-45
Bearing, Mast Roller	00590-03062-71	7-11	Bracket	00590-03268-71	3-7
Bearing, Mast Roller	00590-03062-71	7-5	Bracket	00590-03268-71	3-9
			Bracket	00590-03268-71	5-10
			Bracket	00590-42212-71	7-20

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Bracket	00590-45837-71 . .	2-51	(TS12-3 - TS12-1)	00590-02925-71 . .	5-37
Bracket	00590-45840-71 . .	5-75	Cable Assembly, Right-Hand, Light and Fan		
Brake Assembly	00590-00384-71 . .	4-13	(TS12-3 - TS12-1)	00590-02926-71 . .	5-37
Brake, Assembly	00590-03550-71 . .	4-11	Cable Assembly	00590-02911-71 . .	5-23
Brush Assembly	00590-41886-71 . .	3-10	Cable Assembly	00590-03043-71 . .	5-55
Brush Box and Plate Assembly	00590-39831-71 . .	5-69	Cable Assembly	00590-03044-71 . .	5-55
Brush Box and Plate Assembly	00590-39831-71 . .	5-71	Cable Assembly	00590-03045-71 . .	5-55
Brush Set	00590-40856-71 . .	5-71	Cable Assembly	00590-03046-71 . .	5-55
Brush Wear Indicator	00590-42260-71 . .	5-71	Cable Assembly	00590-03047-71 . .	5-55
Brush	00590-41782-71 . .	5-69	Cable Assembly	00590-03048-71 . .	5-55
Bulb, Light	00590-02792-71 . .	5-51	Cable Assembly	00590-03049-71 . .	5-55
Bulb, Light	00590-03451-71 . .	5-45	Cable Assembly	00590-03050-71 . .	5-59
Bulb	00590-05273-71 . .	5-31	Cable Assembly	00590-03051-71 . .	5-59
Bumper Assembly	00590-03353-71 . .	7-11	Cable Assembly	00590-03052-71 . .	5-59
Bumper Assembly	00590-03353-71 . .	7-31	Cable Assembly	00590-03053-71 . .	5-59
Bumper, Carriage	00590-02955-71 . .	7-31	Cable Assembly	00590-03222-71 . .	5-10
Bushing	00590-02924-71 . .	5-33	Cable Assembly	00590-03223-71 . .	5-9
Button Assembly	00590-03264-71 . .	2-9	Cable Assembly	00590-03224-71 . .	5-9
Button, Horn	00590-03405-71 . .	5-75	Cable Assembly	00590-03225-71 . .	5-9
Cable Assembly (189 in., 88 OACH)	00590-03191-71 . .	7-19	Cable Assembly	00590-03226-71 . .	5-10
Cable Assembly (203 in., 88 OACH)	00590-03192-71 . .	7-19	Cable Assembly	00590-03227-71 . .	5-10
Cable Assembly (210 in., 88 OACH)	00590-03146-71 . .	7-19	Cable Assembly	00590-03228-71 . .	5-9
Cable Assembly (227 in., 107 OACH)	00590-03193-71 . .	7-19	Cable Assembly	00590-03229-71 . .	5-9
Cable Assembly (244 in., 95 OACH)	00590-03147-71 . .	7-19	Cable Assembly	00590-03230-71 . .	5-10
Cable Assembly (248 in., 107 OACH)	00590-03148-71 . .	7-19	Cable Assembly	00590-03231-71 . .	5-9
Cable Assembly (249 in., 118 OACH)	00590-03194-71 . .	7-19	Cable Assembly	00590-03387-71 . .	5-9
Cable Assembly (263 in., 118 OACH)	00590-03155-71 . .	7-19	Cable Assembly	00590-03394-71 . .	5-13
Cable Assembly (267 in., 127 OACH)	00590-03195-71 . .	7-19	Cable Assembly	00590-03396-71 . .	5-13
Cable Assembly (267 in., 88 OACH)	00590-03197-71 . .	7-19	Cable Assembly	00590-40595-71 . .	5-61
Cable Assembly (270 in., 118 OACH)	00590-03149-71 . .	7-19	Cable Assembly	00590-47117-71 . .	5-49
Cable Assembly (275 in., 88 OACH)	00590-03152-71 . .	7-19	Cable Tie	00590-00556-71 . .	2-17
Cable Assembly (288 in., 127 OACH)	00590-03150-71 . .	7-19	Cable Tie	00590-00556-71 . .	3-7
Cable Assembly (288 in., 95 OACH)	00590-03198-71 . .	7-19	Cable Tie	00590-00556-71 . .	5-13
Cable Assembly (297 in., 95 OACH)	00590-03153-71 . .	7-19	Cable Tie	00590-00556-71 . .	5-23
Cable Assembly (307 in., 147 OACH)	00590-03196-71 . .	7-19	Cable Tie	00590-00556-71 . .	5-49
Cable Assembly (324 in., 107 OACH)	00590-03199-71 . .	7-19	Cable Tie	00590-00556-71 . .	5-59
Cable Assembly (328 in., 147 OACH)	00590-03151-71 . .	7-19	Cable Tie	00590-00556-71 . .	5-65
Cable Assembly (333 in., 107 OACH)	00590-03154-71 . .	7-19	Cable Tie	00590-00556-71 . .	5-9
Cable Assembly (357 in., 118 OACH)	00590-03200-71 . .	7-19	Cable Tie	00590-00556-71 . .	6-3
Cable Assembly (384 in., 127 OACH)	00590-03201-71 . .	7-19	Cable Tie	00590-00556-71 . .	7-19
Cable Assembly (393 in., 127 OACH)	00590-03156-71 . .	7-19	Cable Tie	00590-00811-71 . .	5-10
Cable Assembly (399 in., 132 OACH)	00590-03202-71 . .	7-19	Cable Tie	00590-00811-71 . .	5-37
Cable Assembly (408 in., 132 OACH)	00590-03157-71 . .	7-19	Cable Tie	00590-00811-71 . .	5-41
Cable Assembly, Auto Steer	00590-39742-71 . .	2-39	Cable Tie	00590-00811-71 . .	5-45
Cable Assembly, Left-Hand, Light and Fan			Cable Tie	00590-00811-71 . .	5-55
(JC5-2 - JC5-1)	00590-39803-71 . .	5-37	Cable Tie	00590-00811-71 . .	5-59
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