



INDUSTRIAL EQUIPMENT

PARTS CATALOG
FOR MODELS

6BRU18/6BRU23/6BDRU15/6BSU20/6BSU25

Starting With Serial Number 20011

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To Our Customers

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:

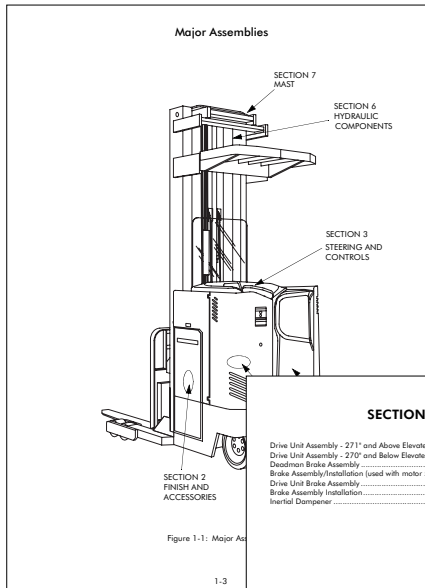
- The model number and serial number of the truck
- Pertinent specifications such as mast height, battery voltage, drive motor type, etc.
- Pertinent name plate data
- Applicable installation or assembly numbers
- Accurate Part Number

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 database.
- 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 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.

SECTION 4 Drive and Brake

Drive Unit Assembly - 271" and Above Elevated Height	4-2
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Drive Unit Brake Assembly	4-12
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Inertial Damper	4-16

Figure 1-1: Major Assemblies

1-3

Frame Assembly - DS/DT

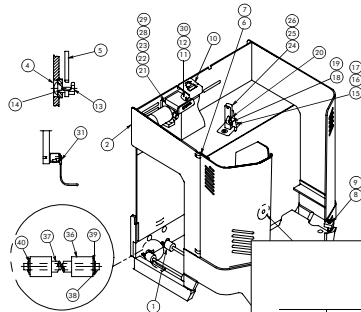


Figure 2-2: Frame Assembly - DS/DT

2-1

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 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	5	828-005-491/003	Roller Assembly	A
		828-005-491/001	Roller Assembly	B
		828-005-491/002	Roller Assembly	C
2	REF	828-006-383	Frame Weldment	A, Q
3	1	714-206	Screw	S
4	1	828-004-421	Bracket, Lock	
5	1	861-026	Pin, Clevis	
6	2	462-032	Bearing	K
7	2	710-264P	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	760-120	Nut, Lock	
14	1	810-732	Pin, Roll	
15	1	828-004-451	Bracket, Key	
16	2	710-067	Screw	
17	2	771-019	Washer	
18	1	114-008-306	Switch Assembly, Key	E, H, K, L, M, R
		114-009-495	Switch Assembly, Key	E, H, K, L, M, R, R
19	1	1-150-057	Switch, Push Button	M, R, R
		1-150-001	Switch, Lock with Keys	Q, M, N, P
20	1	7-590-006/001	Switch, Push Button	K, L, M, R, R
21	1	114-008-718/003	SMART Assembly	H, L, N, P
22	1	5-015-003	Nut, Hex	H, L, N, P
23	1	5-015-004	Nut, Hex	H, L, N, P
24	1	828-004-472	Bracket Weldment	
25	2	828-004-471	Washer	
26	2	710-069	Screw	
27	1	411-938-001	Decal, Keyswitch (Not Shown)	E, H
		411-938-003	Decal, Keyswitch (Not Shown)	G
		411-938-002	Decal, Keyswitch (Not Shown)	K, L
		411-938-004	Decal, Keyswitch (Not Shown)	M, N, P
28	1	828-004-474	Cable Assembly, SC to SMART	H, L, N, P
29	1	828-004-483	Bracket, SMART	H, L, N, P
30	1	828-004-482	Clamp, ODI	E, G, K, M
31	1	154-009-117/001	Static Strap, Insulated	S

F= Forklift Component
 B= 14' Battery Compartment
 C= 21' Battery Compartment
 D= Without Rear Rails
 E= With Rear Rails
 G= Remote
 H= SMART
 K= Standard/Remote
 L= SMART/Remote
 M= Remote/SMART
 N= Remote/SMART
 P= Remote/SMART/Remote
 Q= CD (01) to 3542/05 (01 to 3548)
 R= Recommended Spare

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How To Use 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.

APPENDIX B Numerical Parts List

Part No.	Description	Page	Part No.	Description	Page
024-296-290/240	Cable Assembly	5-15	411-773	Decal, Warning	2-7
024-296-420/241	Cable Assembly	5-15	411-789	Decal, Warning, Bilingual	2-7
024-296-420/241	Cable Assembly	5-15	411-789	Decal, 24 Volt Cable System	5-11
029-002-380/002	Cable Assembly (MDE2 to S6)	5-3	411-851	Decal, Charging Warning	5-11
030-504-008/003	Hose Assembly	6-5	411-852	Decal, Battery Swivel Warning	5-11
1-000-013	Battery, 6 Volt	5-15	411-853	Decal, Battery Swivel Warning	5-11
1-011-011	Terminal Boot, Right Hand	5-15	412-454	Decal, ISO 9001	2-7
1-011-012	Terminal Boot, Left Hand	5-15	412-586	Plate, Lowlift Specification (U.S.)	2-7
1-012-502/003	Bushing, Reducer	5-4	412-588	Plate, Lowlift Specification (Canadian)	2-7
1-074-104/001	Standoff	5-3	441-013	Bearing, Sealed	4-9
1-085-186	Cover, Internal	2-7	441-127	Bearing, Shield	7-5
1-105-216/01	Contact Tip Kit	5-5	447-098	Bearing, Cone	4-3
1-105-216/04	Switch/Actuator Assembly	5-5	447-108	Bearing, Cone	4-3
1-105-216/05	Cover, Top	5-5	447-542	Bearing, Cup	4-3
1-105-216/07	Spring, Return	5-5	447-579	Bearing, Cup	4-3
1-105-216/09	Coil Assembly	5-5	462-029	Bushing, Flanged	4-5
1-105-225	Contactor Assembly	5-5	464-034	Bushing	2-3
1-105-225	Contactor, Forward/Reverse	5-5	464-035	Bushing	2-3
1-110-920/092	Master	3-5	464-035	Bushing	2-3
1-120-098	Potentiometer, Gear	3-5	464-036	Bearing, Oilite Super	7-5
1-120-098	Potentiometer, Gear	3-5	520-078/03	Plug, Shipping	6-9
1-150-366	Switch, Brake/Lift Cutout	5-3	530-449	O-Ring	4-5
			530-490/038	O-Ring, Motor	4-9
			540-062/100	Cylinder, Hydraulic (Eaton)	6-9
			540-062/01	Rod, Piston	6-9
			540-062/02	Barrel Assembly	6-9
			540-062/03	Seal Kit	6-9
			540-062/200	Cylinder, Hydraulic (Ultra)	6-9
			540-062	Cylinder, Hydraulic	6-5
			540-206/123	Valve, Flow Control (2 GPM)	6-7
			540-206/130	Reservoir Kit (With Tubes)	6-7
			540-206/132	Adjuster Block (With Check Valve)	6-7
			540-206/135	Plug, Vent (With 40 Micron Filter)	6-7
			540-209/04	Valve/Cut, Solenoid Release	6-7
			540-209/06	Valve, Adjustable Relief	6-7
			540-209/07	Pump (With Coupling, Bolts & Gasket)	6-7
			540-209/08	Elbow, 90 Degree	6-7
			540-209/09	Switch, Solenoid Start	6-7
			540-213/01	Motor, 24 Volt DC 2 Terminal	6-7
			540-213/01	Pump Motor	5-23
			540-213/02	Brush Set	5-23
			540-213	Pump and Motor Assembly	5-23
			540-213	Pump/Motor Assembly	6-7
			570-271/515	Brush Lead Assembly Kit	5-23
			570-271/516	Commutator End Bearing	5-23
			570-271/516	Drive End Bearing	5-23
			570-271/517	Washer	5-23
			570-316/511	Seal	5-23
			570-316/513	Retaining Ring	5-23
			570-360/511	Brush Set	5-23
			570-360/512	Brush Spring Set	5-23
			570-864	Drive Motor - S/N 5478 & Up	5-23
			570-864	Drive Motor, 24 Volt	4-11
			590-514	Fuse, 15 Amp	5-3
			590-638/001	Horn Assembly	5-3
			590-701	Battery Connector	5-15
			590-701	Battery Connector	5-15
			600-213	Grommet	5-15
			610-307	Shaft, Flexible	3-7

FIGURE 2-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	5	828-005-691/003	Roller Assembly (consists of items 36 through 40)	A
	5	828-005-691/001	Roller Assembly (consists of items 36 through 40)	B
	5	828-005-691/002	Roller Assembly (consists of items 36 through 40)	C
2	REF		Frame Weldment	A, Q
3	1	828-006-283	Door Weldment	S
4	1	714-206	Screw	
5	1	828-004-421	Bracket, Lock	
6	2	861-026	Pin, Clevis	
7	2	462-032	Bearing	R
8	1	710-264P	Screw	
9	1	750-433	Nut, Hex	
10	1	828-004-622	ODI Assembly	O
11	2	750-006	Nut, Hex	T
12	2	771-049	Washer	H, L, M, P
13	1	760-130	Nut, Lock	
14	1	810-733	Pin, Roll	
15	1	828-004-651	Bracket, Key	
16	2	710-067	Screw	
17	2	771-019	Washer	
18	1	114-008-306	Switch Assembly, Key	F, H, K, L, M, R
19	1	114-009-695	Switch Assembly, Key	F, H, K, L, M, P, R
20	1	1-150-057	Switch, Push Button	M, R, R
21	1	7-590-006/001	Switch, Lock with Keys	G, M, N, P
22	1	114-008-718/005	SMARTI Assembly	K, L, M, P, R
23	1	5-015-003	Nut, Hex	H, L, N, P
24	1	5-015-004	Nut, Hex	H, L, N, P
25	1	828-004-672	Bracket Weldment	
26	2	828-004-671	Washer	
27	1	710-069	Screw	
28	1	411-938/001	Decal, Keyswitch (Not Shown)	F, H
29	1	411-938/003	Decal, Keyswitch (Not Shown)	G
30	1	411-938/004	Decal, Keyswitch (Not Shown)	K, L
31	1	411-938/005	Decal, Keyswitch (Not Shown)	M, N, P
32	1	828-004-674	Bracket, Key	H, L, N, P
33	1	828-004-683	Bracket, Key	H, L, N, P
34	1	828-004-682	Clamp, ODI	F, G, K, M
35	1	154-009-117/001	Static Strap, 1/2"	

A= 14" Battery Compartment
B= 16" Battery Compartment
C= 21" Battery Compartment
D= Without Rear Posts
E= With Rear Posts

F= Standard
G= Remote
H= SMARTI
K= Standard/Bypass
L= SMARTI/Bypass

M= Remote/Bypass
N= Remote/Bypass
O= DT 001 to 384
P= Remote SMARTI
Q= DT 001 to 3560

S= DT 3567 and Up/DS
T= DT 3843 and Up/DS
3803 and Up
R= Recommended Spare

List 2-2: Frame Assembly - DS

2-7

123-456-789

3.

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

Frame Assembly - DS/DT

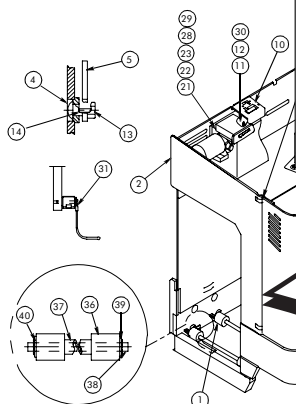
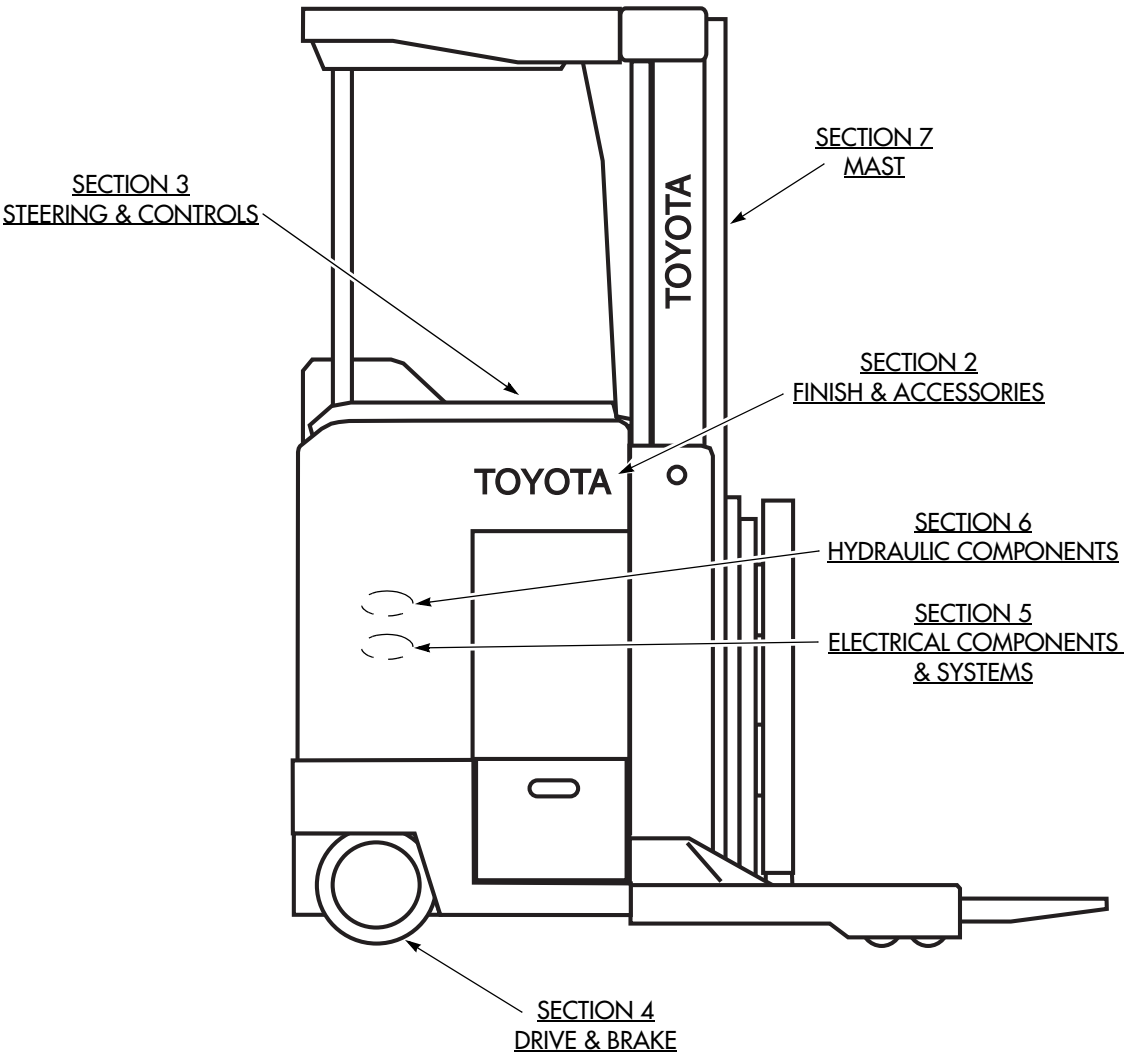


Figure 2-2: Frame Assembly - DS/DT

2-1

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 Assembly	00590-03932-71	1	7-37	Hose, Triline Assembly (Intermediate)	00590-04245-71	1	7-6
Bearing, Cylinder	00590-40065-71	1	6-15	Hose, Triline Assembly (Intermediate)	00590-04246-71	1	7-6
Bearing, Flanged	00590-03679-71	2	2-17	Hose, Triline Assembly (Intermediate)	00590-04247-71	1	7-6
Bearing, Flanged	00590-03998-71	2	4-11	Hose, Triline Assembly (Intermediate)	00590-04248-71	1	7-7
Bearing, Mast Guide	00590-03816-71	4	7-41	Hose, Triline Assembly (Intermediate)	00590-04249-71	1	7-7
Bearing, Mast Guide	00590-03816-71	4	7-43	Hose, Triline Assembly (Intermediate)	00590-04250-71	1	7-7
Bearing, Mast Guide	00590-03816-71	4	7-5	Hose, Triline Assembly (Intermediate)	00590-04251-71	1	7-7
Bearing, Mast Guide	00590-03816-71	8	7-12	Hose, Triline Assembly (Intermediate)	00590-04252-71	1	7-7
Bearing, Oilite	00590-03657-71	1	7-22	Hose, Triline Assembly (Intermediate)	00590-04253-71	1	7-7
Bearing, Roller	00590-05141-71	4	7-29	Hose, Triline Assembly (Tractor)	00590-04196-71	1	7-6
Bearing, Tapered	00590-03674-71	1	2-17	Hose, Triline Assembly (Tractor)	00590-04197-71	1	7-6
Bearing, Tapered	00590-03675-71	1	2-17	Hose, Triline Assembly (Tractor)	00590-04198-71	1	7-6
Bearing, Thrust	00590-04466-71	2	7-21	Hose, Triline Assembly (Tractor)	00590-04199-71	1	7-6
Bearing, Thrust	00590-04466-71	4	7-29	Hose, Triline Assembly (Tractor)	00590-04200-71	1	7-6
Bearing, Thrust	00590-04490-71	1	2-17	Hose, Triline Assembly (Tractor)	00590-04201-71	1	7-6
Bearing	00590-03656-71	1	6-19	Hose, Triline Assembly (Tractor)	00590-04203-71	1	7-6
Bearing	00590-03674-71	2	4-9	Hose, Triline Assembly (Tractor)	00590-04204-71	1	7-6
Bearing	00590-03815-71	1	7-38	Hose, Triline Assembly (Tractor)	00590-04205-71	1	7-6
Bearing	00590-03829-71	2	6-17	Kit, Seal	00590-04462-71	1	6-11
Bearing	00590-03829-71	2	6-19	Kit, Seal	00590-40066-71	1	6-15
Bearing	00590-03840-71	8	2-5	Kit, Seal	00590-03862-71	1	6-29
Bearing	00590-03852-71	1	4-3	Kit, Seal	00590-04381-71	1	6-25
Bearing	00590-03861-71	1	6-29	Kit, Seal	00590-04499-71	1	6-17
Bearing	00590-04113-71	1	6-22	Kit, Seal	00590-04499-71	1	6-19
Bearing	00590-04353-71	1	2-17	Kit, Seal	00590-05014-71	1	6-13
Bearing	00590-04464-71	4	7-29	Kit, Seal	00590-04389-71	1	6-9
Bearing	00590-04465-71	2	7-21	Kit, Sealing	00590-03711-71	1	4-5
Bearing	00590-04465-71	2	7-29	Kit, Wheel Shaft	00590-03712-71	1	4-5
Bearing	00590-04982-71	1	6-17	Limiter, Flow	00590-04323-71	1	7-12
Bearing	00590-05124-71	2	7-22	Limiter, Flow	00590-04324-71	1	7-12
Bearing	00590-05124-71	2	7-37	O-Ring	00590-03822-71	1	4-3
Bearing	00590-05124-71	6	7-29	O-Ring	00590-03823-71	1	6-3
Bearing	00590-05128-71	1	7-59	O-Ring	00590-03860-71	1	6-3
Bearing	00590-05129-71	6	7-59	Pin Assembly	00590-39537-71	1	7-57
Bearing	00590-05141-71	1	7-22	Pin, Tilt Frame	00590-04413-71	1	7-37
Bearing	00590-05146-71	3	7-5	Plug, Wear	00590-04207-71	1	7-38
Bearing	00590-05147-71	3	7-11	Potentiometer, Brake	00590-04289-71	1	4-11
Bearing	00590-39837-71	2	5-25	Pressure Relief Kit	00590-39562-71	1	6-7
Brush Kit	00590-04567-71	2	5-25	Race, Inner	00590-05140-71	3	7-5
Brush Kit	00590-39830-71	1	5-25	Race, Inner	00590-05145-71	3	7-11
Brush Kit	00590-41807-71	2	5-25	Ring, Nilos	00590-05143-71	2	2-17
Brush Set	00590-04310-71	1	5-29	Ring, Nilos	00590-05144-71	1	2-17
Brush, Motor	00590-04162-71	2	3-7	Ring, Snap	00590-03683-71	1	6-21
Brushing	00590-05137-71	1	7-37	Ring, Snap	00590-03683-71	1	6-27
Bushing	00590-03656-71	1	6-11	Ring	00590-03830-71	1	6-15
Bushing	00590-03657-71	1	6-13	Seal Kit	00590-40084-71	1	6-22
Bushing	00590-04463-71	2	7-21	Seal Kit	00590-40103-71	1	6-27
Bushing	00590-05135-71	1	7-37	Seal Kit	00590-39561-71	1	6-7
Bushing	00590-05136-71	1	7-37	Seal	00590-03869-71	1	4-3
Bushing	00590-05137-71	2	7-41	Shoe	00590-03892-71	2	4-13
Bushing	00590-05138-71	2	7-41	Spring Kit, Brush	00590-04574-71	1	5-25
Bushing	00590-05139-71	1	7-37	Spring Set	00590-04311-71	1	5-29
DBV Kit	00590-39563-71	1	6-7	Spring, Brush	00590-03896-71	8	5-25
Element, Filter	00590-46406-71	1	6-3	Spring	00590-03875-71	1	6-27
Filter Assembly	00590-46405-71	1	6-3	Spring	00590-03875-71	1	6-29
Gasket, Filter	00590-04175-71	1	6-3	Spring	00590-03893-71	2	4-13
Hose, Triline Assembly (Free Lift)	00590-04294-71	1	7-7	Spring	00590-04135-71	1	2-17
Hose, Triline Assembly (Free Lift)	00590-04295-71	1	7-7	Spring	00590-04141-71	1	4-9
Hose, Triline Assembly (Free Lift)	00590-04296-71	1	7-7	Spring	00590-04288-71	1	4-11
Hose, Triline Assembly (Free Lift)	00590-04297-71	1	7-7	Switch, Brake	00590-03798-71	1	4-11
Hose, Triline Assembly (Free Lift)	00590-04298-71	1	7-7	Switch	00590-03798-71	1	4-11
Hose, Triline Assembly (Free Lift)	00590-04299-71	1	7-7	SWR21 Kit	00590-39564-71	1	6-7
Hose, Triline Assembly (Free Lift)	00590-04300-71	1	7-7	Valve, 4-Way Spool	00590-40109-71	1	6-33
Hose, Triline Assembly (Free Lift)	00590-04301-71	1	7-7	Valve, 4-Way Spool	00590-40109-71	1	6-35
Hose, Triline Assembly (Free Lift)	00590-04302-71	1	7-7	Valve, Bi-Directional	00590-05180-71	3	6-33

Recommended Spare Parts List continued

Description	Part No.	Qty.	Page	Description	Part No.	Qty.	Page
Valve, Flow Limiting (10 GPM).....	00590-04325-71 ...	1	7-5	Washer, Sealing	00590-03700-71 ...	1	6-27
Valve, Flow Limiting (19 GPM).....	00590-04326-71 ...	1	7-5	Wheel, Load	00590-05044-71 ...	1	7-59
Valve, Solenoid	00590-05180-71 ...	2	6-35	Wheel, Load	00590-05046-71 ...	1	7-59
Washer, Sealing	00590-03700-71 ...	1	6-21	Wheel, Load	00590-05047-71 ...	1	7-59

Hardware Parts List

Description	Part No.	Qty.	Description	Part No.	Qty.
Bearing	00590-03829-71	2	Screw	00590-03699-71	4
Bearing	00590-05002-71	2	Screw	00590-03734-71	7
Bearing	00590-05071-71	2	Screw	00590-03774-71	4
Bolt, Stacking	00590-40139-71	1	Screw	00590-03783-71	2
Bolt	00590-03801-71	1	Screw	00590-03787-71	14
Bolt	00590-04145-71	3	Screw	00590-03793-71	1
Bolt	00590-43862-71	3	Screw	00590-03795-71	10
Cap, Bearing	00590-03976-71	2	Screw	00590-03796-71	4
Fitting	00590-04169-71	1	Screw	00590-03797-71	4
Nut, Clip	00590-40012-71	4	Screw	00590-03799-71	1
Nut, Flanged	00590-05156-71	2	Screw	00590-03802-71	2
Nut, Hex, Thin	00590-03929-71	1	Screw	00590-03805-71	2
Nut, Lock	00590-03642-71	1	Screw	00590-03811-71	4
Nut, Lock	00590-03785-71	2	Screw	00590-03817-71	4
Nut, Lock	00590-39580-71	1	Screw	00590-03818-71	7
Nut, Slotted	00590-05072-71	2	Screw	00590-03820-71	2
Nut	00590-03680-71	1	Screw	00590-03821-71	12
Nut	00590-03731-71	1	Screw	00590-03827-71	2
Nut	00590-03765-71	1	Screw	00590-03828-71	2
Nut	00590-03788-71	5	Screw	00590-03831-71	2
Nut	00590-03790-71	1	Screw	00590-03836-71	10
Nut	00590-03794-71	6	Screw	00590-03837-71	1
Nut	00590-03806-71	3	Screw	00590-03838-71	2
Nut	00590-03807-71	1	Screw	00590-03850-71	2
Nut	00590-03810-71	14	Screw	00590-03851-71	4
Nut	00590-03883-71	2	Screw	00590-03858-71	13
Nut	00590-03923-71	6	Screw	00590-03863-71	2
Nut	00590-03924-71	1	Screw	00590-03864-71	1
Nut	00590-03933-71	2	Screw	00590-03865-71	2
Nut	00590-03934-71	2	Screw	00590-03870-71	10
Nut	00590-03935-71	2	Screw	00590-03884-71	1
Nut	00590-03936-71	1	Screw	00590-03887-71	4
Nut	00590-03974-71	4	Screw	00590-03911-71	7
Nut	00590-04470-71	1	Screw	00590-03914-71	3
Nut	00590-05006-71	1	Screw	00590-03915-71	10
Nut	00590-05119-71	1	Screw	00590-03916-71	2
Nut	00590-05207-71	1	Screw	00590-03917-71	36
Nut	00590-39861-71	2	Screw	00590-03921-71	9
Nut	00590-39863-71	1	Screw	00590-03922-71	1
Nut	00590-40164-71	2	Screw	00590-03927-71	1
Nut	00590-40165-71	2	Screw	00590-03928-71	1
Nut	00590-40244-71	2	Screw	00590-04189-71	2
Nut	00590-42136-71	1	Screw	00590-04260-71	2
Receptacle	00590-03926-71	1	Screw	00590-04473-71	2
Ring, Locking	00590-03782-71	1	Screw	00590-04474-71	1
Ring, Retainer	00590-03786-71	1	Screw	00590-05000-71	1
Ring	00590-03682-71	1	Screw	00590-05040-71	1
Screw	00590-03854-71	4	Screw	00590-05061-71	3
Screw, Cap	00590-03922-71	1	Screw	00590-05074-71	1
Screw, Cap	00590-05154-71	2	Screw	00590-05118-71	2
Screw, Cap	00590-05155-71	3	Screw	00590-05154-71	4
Screw, Set	00590-03677-71	1	Screw	00590-05157-71	4
Screw, Set	00590-03913-71	1	Screw	00590-05185-71	3
Screw, Set	00590-03913-71	1	Screw	00590-05205-71	3
Screw, Set	00590-05040-71	2	Screw	00590-05215-71	2
Screw, Set	00590-40222-71	2	Screw	00590-05226-71	1
Screw, Socket	00590-03660-71	1	Screw	00590-39574-71	9
Screw	00590-03471-71	1	Screw	00590-39859-71	2
Screw	00590-03659-71	3	Screw	00590-39865-71	2
Screw	00590-03670-71	1	Screw	00590-40025-71	1
Screw	00590-03684-71	2	Screw	00590-40038-71	8
Screw	00590-03685-71	1	Screw	00590-40056-71	2
Screw	00590-03686-71	1	Screw	00590-40134-71	2
Screw	00590-03687-71	5	Screw	00590-40146-71	1
Screw	00590-03688-71	2	Screw	00590-40156-71	8

Hardware Parts List continued

Description	Part No.	Qty.	Description	Part No.	Qty.
Screw	00590-40166-71	4	Washer, Shim, 0.025 in.	00590-40127-71	3
Screw	00590-40193-71	1	Washer, Shim, 0.050 in.	00590-03694-71	3
Screw	00590-40221-71	6	Washer, Shim	00590-03691-71	4
Screw	00590-40224-71	4	Washer, Shim	00590-03693-71	3
Screw	00590-40225-71	4	Washer, Shim	00590-04154-71	1
Screw	00590-41927-71	2	Washer, Thick	00590-04192-71	2
Screw	00590-41968-71	3	Washer, Thin	00590-04193-71	2
Screw	00590-41969-71	1	Washer	00590-02705-71	2
Screw	00590-41970-71	1	Washer	00590-03654-71	2
Screw	00590-41971-71	1	Washer	00590-03690-71	9
Screw	00590-41973-71	2	Washer	00590-03691-71	3
Screw	00590-41974-71	2	Washer	00590-03692-71	2
Screw	00590-42135-71	1	Washer	00590-03693-71	3
Screw	00590-43644-71	4	Washer	00590-03695-71	2
Screws	00590-05205-71	2	Washer	00590-03696-71	2
Shaft, Weldment	00590-03876-71	1	Washer	00590-03697-71	5
Shim, Washer	00590-03973-71	4	Washer	00590-03698-71	6
Tee	00590-05077-71	1	Washer	00590-03740-71	1
Washer, Flat	00590-02401-71	2	Washer	00590-03767-71	1
Washer, Flat	00590-03652-71	1	Washer	00590-03800-71	1
Washer, Flat	00590-03653-71	4	Washer	00590-03803-71	5
Washer, Flat	00590-03655-71	1	Washer	00590-03804-71	7
Washer, Flat	00590-05148-71	8	Washer	00590-03814-71	10
Washer, Flat	00590-05149-71	2	Washer	00590-03853-71	1
Washer, Flat	00590-05150-71	13	Washer	00590-03855-71	2
Washer, Flat	00590-40020-71	1	Washer	00590-03885-71	5
Washer, Lock	00590-03643-71	2	Washer	00590-03886-71	2
Washer, Lock	00590-03644-71	1	Washer	00590-04188-71	2
Washer, Lock	00590-03784-71	2	Washer	00590-39860-71	2
Washer, Lock	00590-05152-71	4	Washer	00590-39862-71	1
Washer, Lock	00590-05153-71	5	Washer	00590-40044-71	4
Washer, Lock	00590-40135-71	2	Washer	00590-40136-71	3
Washer, Lock	00590-40209-71	3			

SECTION 2 Finish & Accessories

Major Assembly Locator.....	2-2
Frame and Components.....	2-4
Overhead Guard & Wind Screen Installation	2-7
Floor Plate Assembly	2-10
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Caster Assembly	2-15

Major Assembly Locator

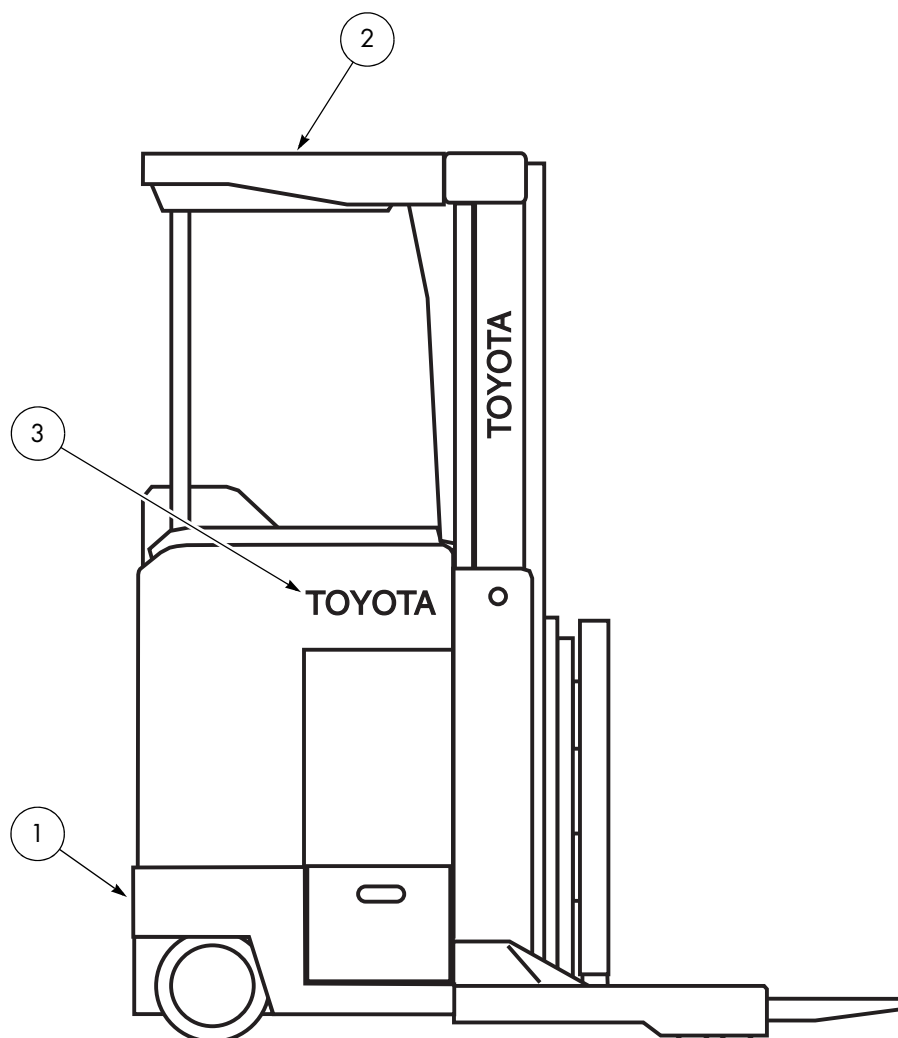


Figure 2-1: Major Assembly Locator

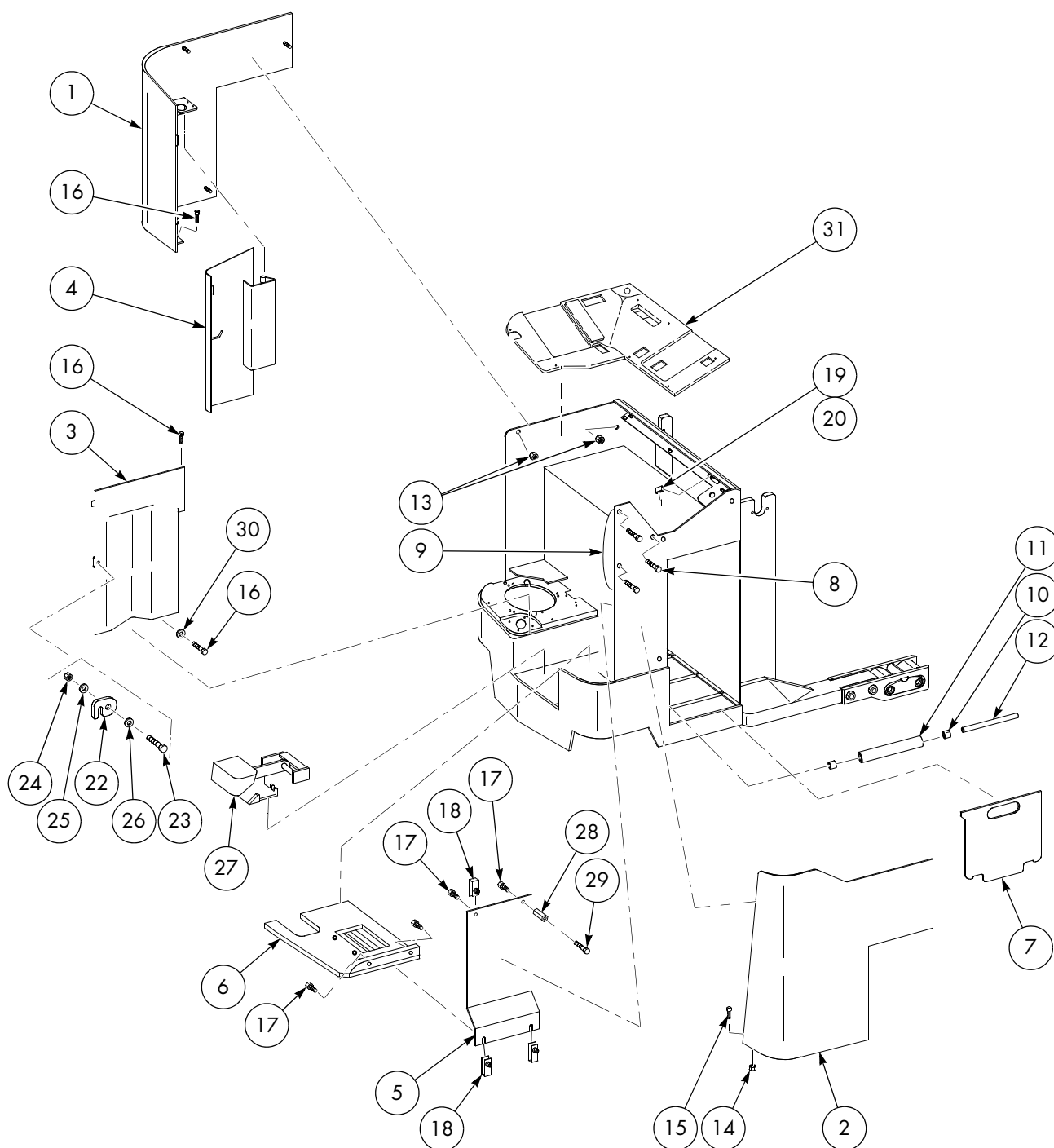
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Major Assembly Locator

FIGURE 2-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1		Ref.	Frame Components (See Figure 2-2.)	
2		Ref.	Overhead Guard & Wind Screen (See Figure 2-3a.)	
3		Ref.	Decal Installation (See Figure 2-5.)	

List 2-1: Major Assembly Locator

Frame and Components



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Figure 2-2: Frame and Components

Frame and Components

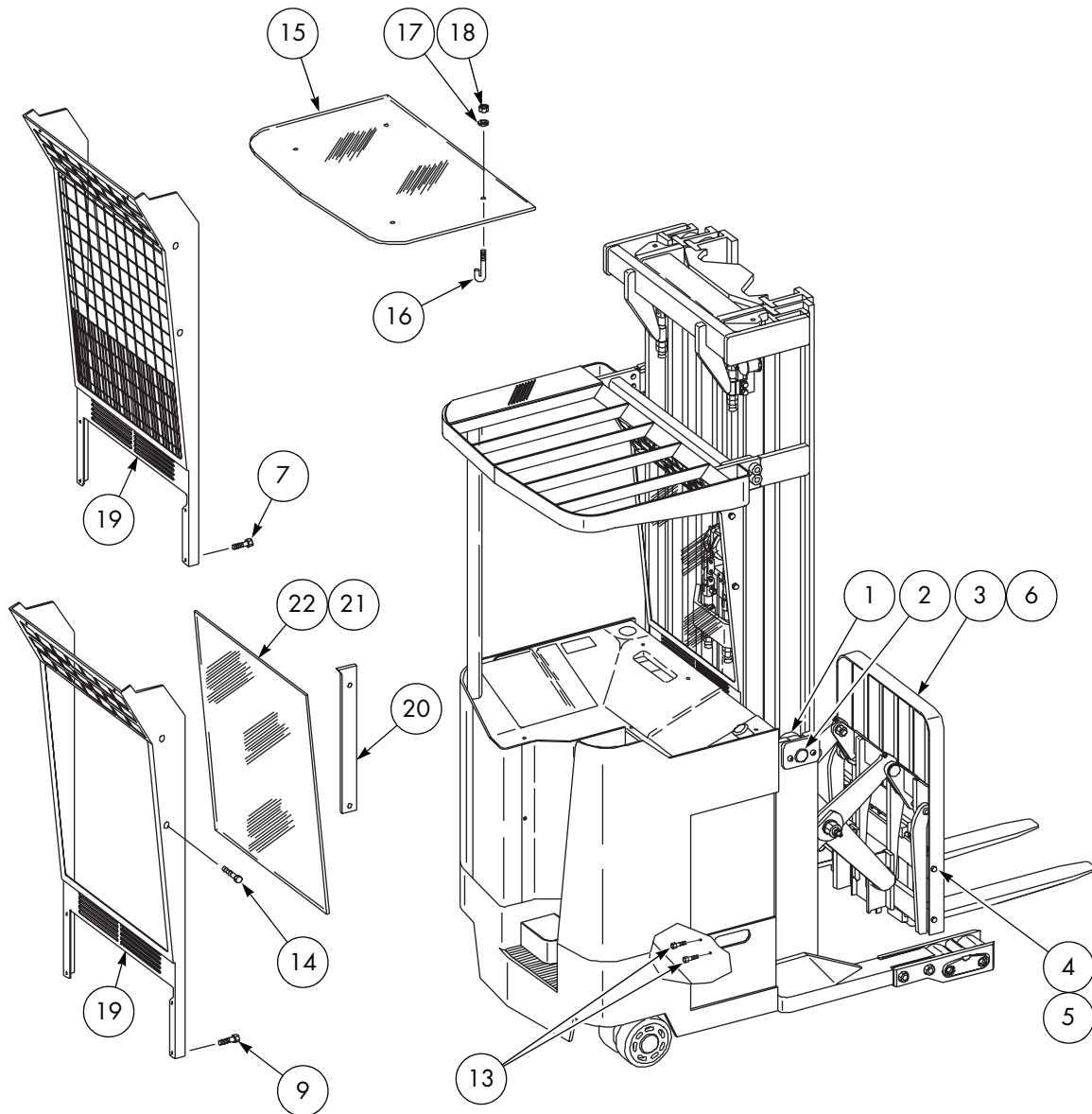
FIGURE 2-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04398-71	Plate Weldment, Side, Left Hand	A
	1	00590-04399-71	Plate Weldment, Side, Left Hand	B
	1	00590-04400-71	Plate Weldment, Side, Left Hand	C
2	1	00590-04394-71	Plate Weldment, Side, Right Hand	A
	1	00590-04395-71	Plate Weldment, Side, Right Hand	B
	1	00590-04396-71	Plate Weldment, Side, Right Hand	C
3	1	00590-04405-71	Plate Weldment, Side, Panel	
4	1	00590-40008-71	Door Weldment (28.17 in.)	
	1	00590-04404-71	Door Weldment (29.97 in.)	
5	1	00590-04403-71	Cover, Panel	
6	1	Ref.	Plate Assembly, Floor (See Figure 2-4.)	
7	2	00590-04001-71	Plate, Battery Stop	A
	2	00590-04002-71	Plate, Battery Stop	B
	2	00590-04003-71	Plate, Battery Stop	C
8	3	00590-43862-71	Bolt	
9	1	00590-04438-71	Cushion, Hip	
10	8	00590-03840-71	Bearing	R
11	4	00590-03844-71	Roller, Battery	A
	4	00590-03845-71	Roller, Battery	B
	4	00590-03846-71	Roller, Battery	C
12	4	00590-03842-71	Shaft, Battery Roller	A
	4	00590-03841-71	Shaft, Battery Roller	B
	4	00590-03843-71	Shaft, Battery Roller	C
13	2	00590-05156-71	Nut, Flanged	
14	1	00590-03788-71	Nut	
15	1	00590-39574-71	Screw	
16	6	00590-03917-71	Screw	
17	4	00590-03888-71	Screw	
18	4	00590-40012-71	Nut, Clip	
19	1	00590-03926-71	Receptacle	
20	1	00590-03925-71	Mount, Bar	
22	1	00590-03999-71	Latch	
23	1	00590-03799-71	Screw	
24	1	00590-03642-71	Nut, Lock	
25	1	00590-03800-71	Washer	
26	1	00590-03690-71	Washer	
27	1	Ref.	Brake Pedal Assembly (See Figure 4-5.)	
28	1	00590-04437-71	Spacer	
29	1	00590-05185-71	Screw	
30	1	00590-03885-71	Washer	
31	1	00590-42138-71	Dash	

A= 14.5 in. wide Battery Compartment
 B= 16.5 in. wide Battery Compartment
 C= 21.0 in. wide Battery Compartment
 R= Recommended Spare

List 2-2: Frame and Components

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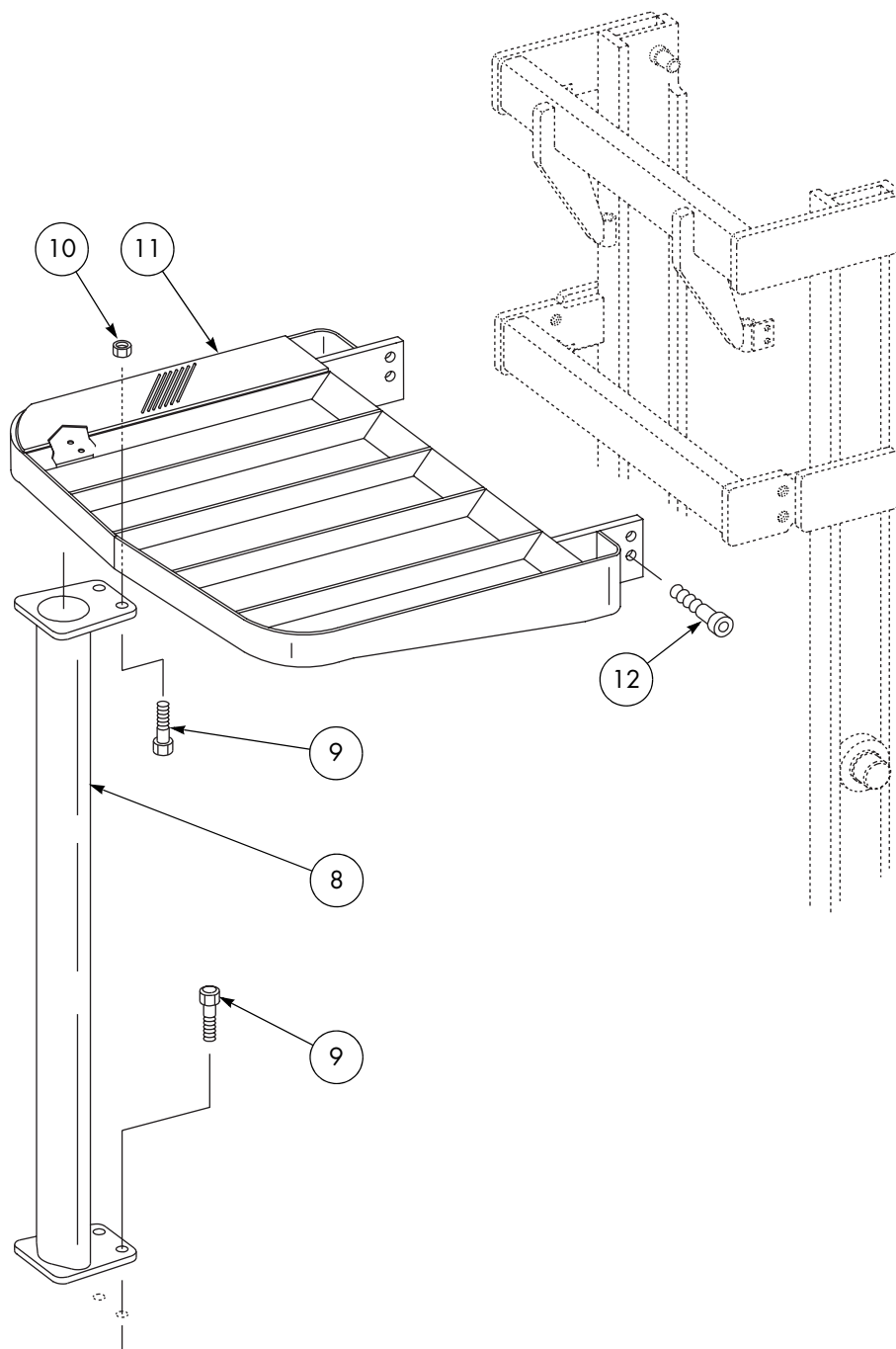
Overhead Guard & Wind Screen Installation



307731-3_B

Figure 2-3a: Overhead Guard & Wind Screen Installation

Overhead Guard & Wind Screen Installation



0811_000

Figure 2-3b: Overhead Guard & Wind Screen Installation

Overhead Guard & Wind Screen Installation

FIGURE 2-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	00590-04022-71	Plate, Mast	
2	4	00590-03887-71	Screw	
3	1	00590-03980-71	Backrest, Load 44 in.	A
	1	00590-03981-71	Backrest, Load 36 in.	A, E
	1	00590-03982-71	Backrest, Load 48 in.	A, E
	1	00590-46929-71	Backrest, Load 48 in. (Double Cross Bar)	A, E
	1	00590-04065-71	Backrest, Load 44 in.	B, E
	1	00590-04066-71	Backrest, Load 36 in.	B, E
	1	00590-04067-71	Backrest, Load 48 in.	B, E
4	4	00590-03774-71	Screw	A, C, D
	4	00590-03921-71	Screw	B
5	4	00590-03653-71	Washer, Flat	A, C, D
	4	00590-05150-71	Washer, Flat	B
6	1	00590-04488-71	Backrest, Load 48 in.	C, D, E
7	2	00590-04130-71	Spacer	C
8	1	00590-04397-71	Post, Overhead Guard (89 in.)	
	1	00590-39659-71	Post, Overhead Guard (95 in.)	
9	8	00590-03917-71	Screw	
10	2	00590-03788-71	Nut	
11	1	00590-43698-71	Overhead Guard Weldment, 14.5 in. Battery Compartment	
	1	00590-43699-71	Overhead Guard Weldment, 16.5 in. Battery Compartment	
	1	00590-43700-71	Overhead Guard Weldment, 21.0 in. Battery Compartment	
12	4	00590-43644-71	Screw	
13	4	00590-03851-71	Screw	
14	6	00590-03870-71	Screw	
15	1	00590-04239-71	Shield, Plastic, Overhead Guard	
16	4	00590-04238-71	Bolt, J	
17	4	00590-03803-71	Washer	
18	3	00590-03806-71	Nut	
19	1	00590-04176-71	Frame, Windscreen (Mesh) 89 in. (Frame Only)	
	1	00590-40908-71	Frame, Windscreen (Mesh) 89 in. (w/wire)	
	1	00590-43680-71	Frame, Windscreen (Mesh) 89 in. (w/wire and decal)	
	1	00590-04177-71	Frame, Windscreen (Mesh) 95 in. (Frame Only)	
	1	00590-40909-71	Frame, Windscreen (Mesh) 95 in. (w/wire)	
	1	00590-45707-71	Frame, Windscreen (Mesh) 95 in. (w/wire and decal)	
20	2	00590-04225-71	Retainer, Glass	
21	6.47'	00590-05159-71	Channel, Rubber	
22	1	00590-46077-71	Glass, Safety	

A= 6BRU18/6BSU20 w/Sideshift

B= 6BRU18/6BSU20 w/o Sideshift

C= 6BRU23/6BDRU15/6BSU25 w/Sideshift

D= 6BRU23/6BDRU15/6BSU25 w/o Sideshift

E= Measure backrest height from top of backrest to top of forks.

List 2-3: Overhead Guard & Wind Screen Installation

Floor Plate Assembly

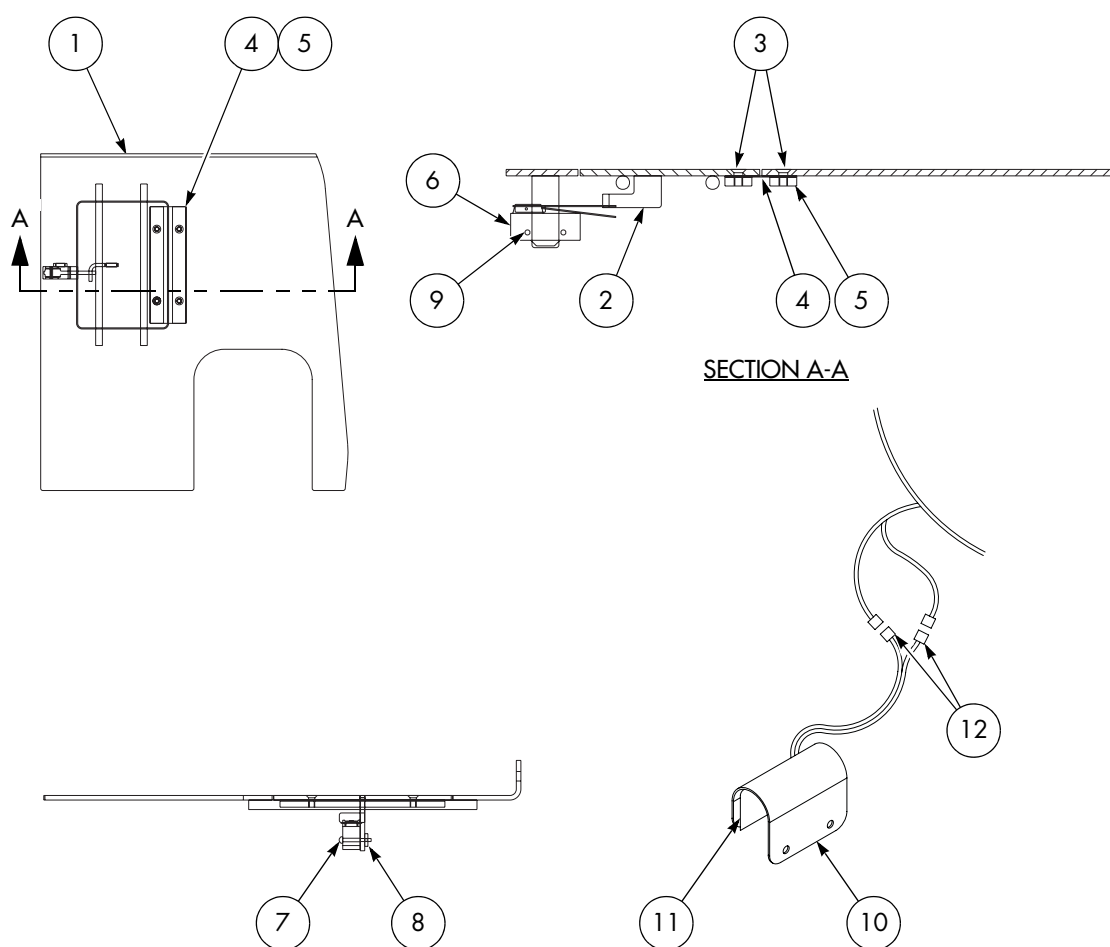


Figure 2-4: Floor Plate Assembly

307040_D

Floor Plate Assembly

FIGURE 2-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04213-71	Plate, Floor	
2	1	00590-04214-71	Pedal, Foot, Right	
3	4	00590-03817-71	Screw	
4	1	00590-04216-71	Spring, Hinge	
5	2	00590-04215-71	Bar, Hinge Mounting	
6	1	00590-03798-71	Switch	
7	1	00590-03699-71	Screw	
8	1	00590-03773-71	Nut	
9	1	00590-05122-71	Terminal	
10	1	00590-39858-71	Bracket, Heater	
11	1	00590-41426-71	Heater, Cold Storage, 24V	
	1	00590-39854-71	Heater, Cold Storage, 36V	
12	2	00590-05121-71	Terminal	

List 2-4: Floor Plate Assembly

Finishing Decals

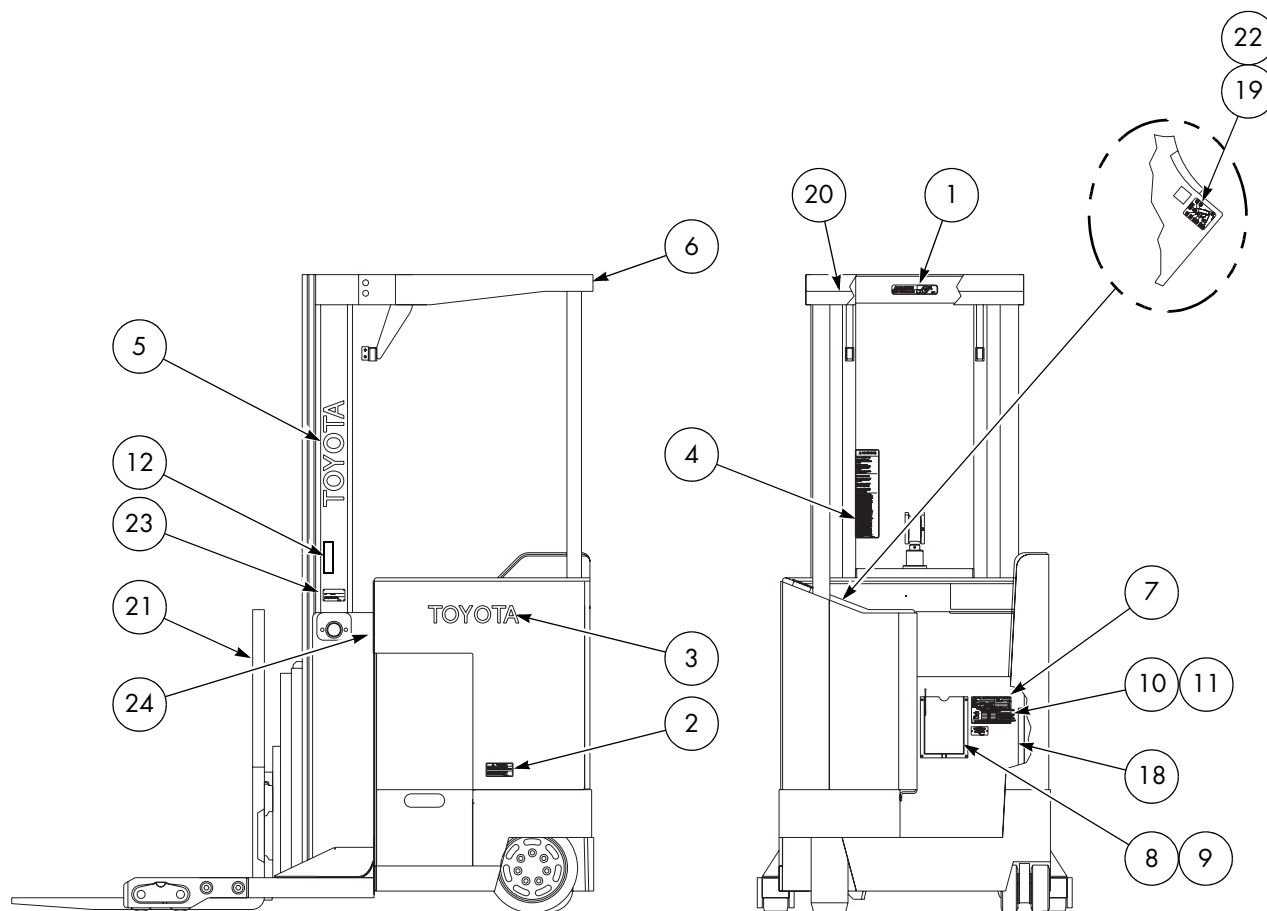


Figure 2-5: Finishing Decals

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Finishing Decals

FIGURE 2-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04436-71	Decal, Warning, Hand	
2	2	00590-04494-71	Decal, Warning, Battery	
3	2	00590-04497-71	Decal, Toyota	
4	1	00590-04440-71	Decal, Warning	
5	2	00590-04498-71	Decal, Toyota	
6	1	00590-04496-71	Decal, Toyota	
7	1	00590-04441-71	Nameplate	
8	1	00590-03901-71	Compartment, Manual, Black	
9	1	00590-40018-71	Track, Metal	
10	1	00590-04495-71	Plate, UL	A
11	1	00590-05115-71	Track, Metal	A
12	1	00590-05284-71	Decal, Warning	
18	1	00590-40019-71	Decal, Fuse	
19	1	00590-04443-71	Decal, Reach, Tilt	B, C, D
20	1	00590-04493-71	Decal, Overhead Guard	
21	1	00590-04444-71	Decal, No Riding	
22	1	00590-04442-71	Decal, Sideshift, Tilt	E, F
23	1	00590-04448-71	Plate, Identification	
24	1	00590-05284-71	Decal, ESD	
25	1	00590-39628-71	Decal, Reverse Steering (Not Shown)	

A= UL "E" Label

B= 6BRU18

C= 6BRU23

D= 6BDRU15

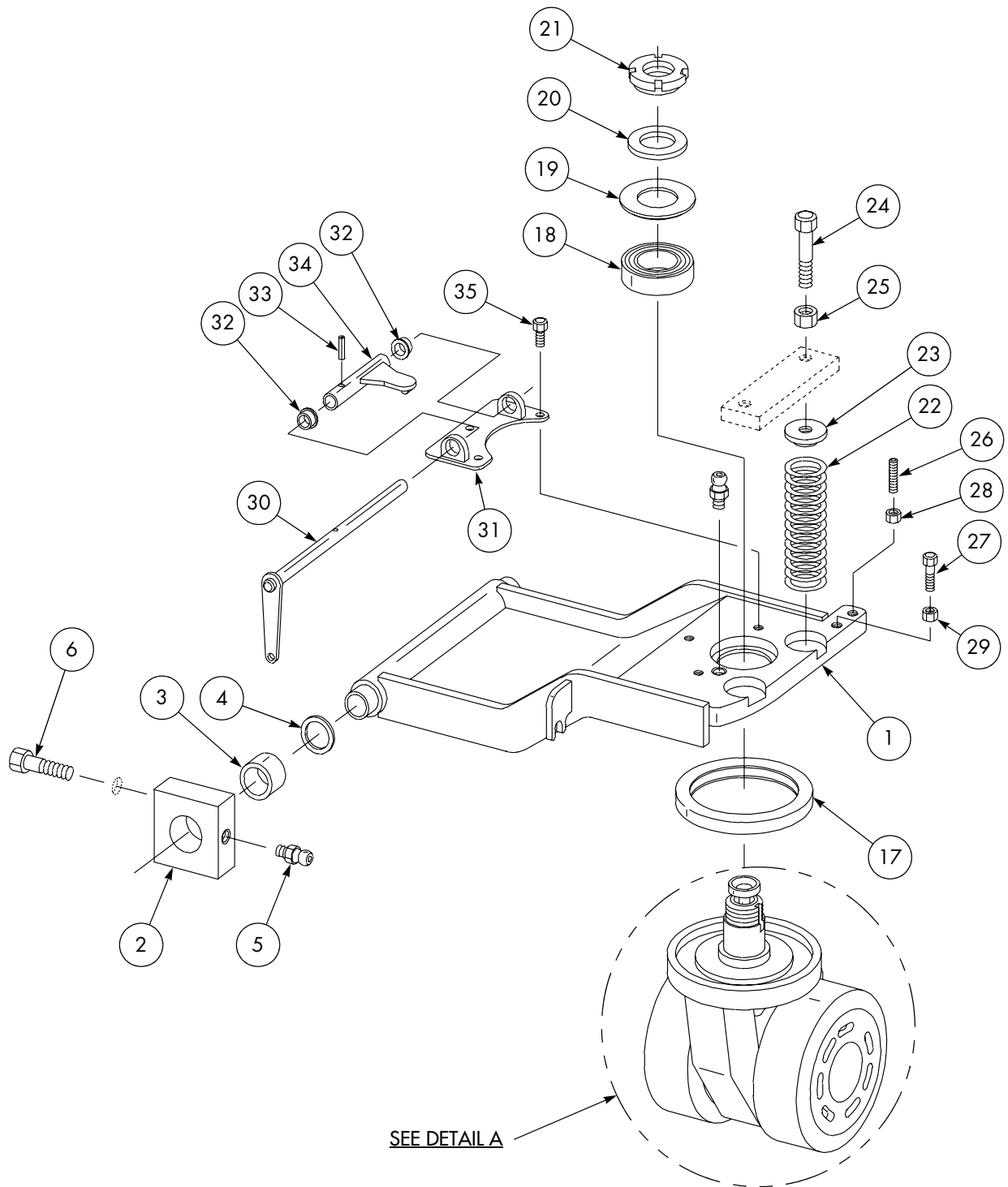
E= 6BSU20

F= 6BSU25

List 2-5: Finishing Decals

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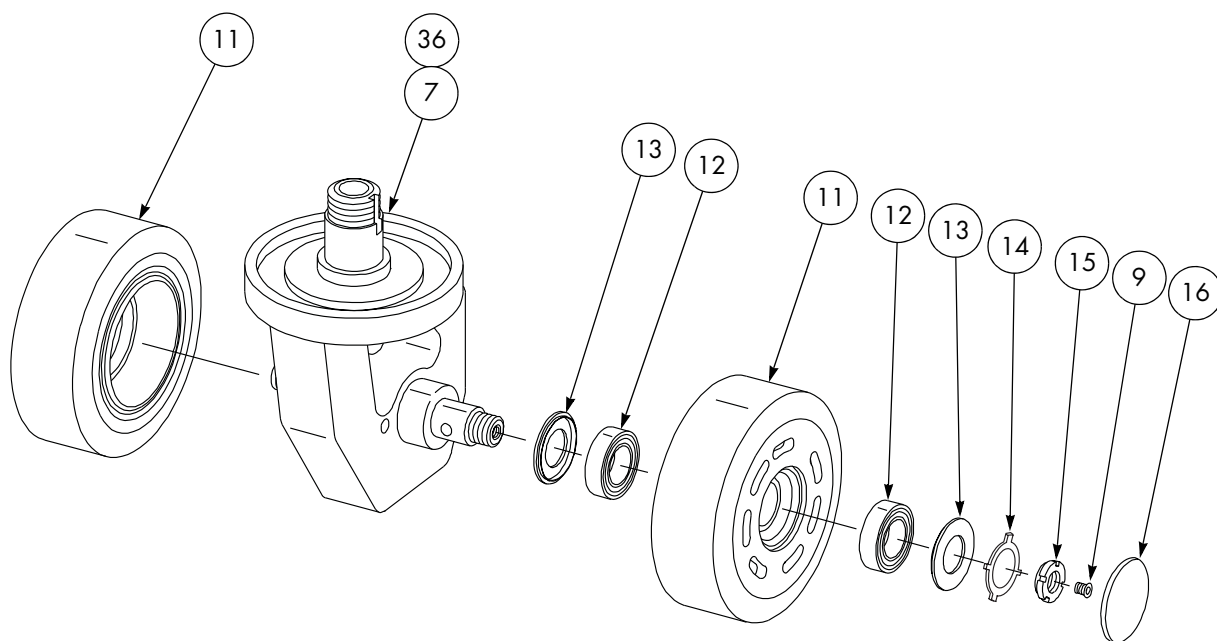
Caster Assembly



3543-000

Figure 2-6a: Caster Assembly

Caster Assembly



DETAIL A

3542-001

Figure 2-6b: Caster Assembly

Caster Assembly

FIGURE 2-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-03985-71	Weldment, Caster Pivot	
2	1	00590-03988-71	Block, Caster Pivot	
3	1	00590-04353-71	Bearing	R
4	1	00590-04318-71	Washer	
5	2	00590-03673-71	Fitting, Grease	
6	1	00590-03837-71	Screw	
7	1	00590-39878-71	Weldment, Caster	
9	1	00590-03672-71	Fitting, Grease	
11	1	00590-04004-71	Wheel, Caster	
12	1	00590-03674-71	Bearing, Tapered	R
13	2	00590-05143-71	Ring, Nilos	R
14	1	00590-03784-71	Washer, Bearing, Lock	
15	1	00590-03785-71	Nut, Bearing, Lock	
16	1	00590-04037-71	Cap, Wheel	
17	1	00590-04490-71	Bearing, Thrust	R
18	1	00590-03675-71	Bearing, Tapered	R
19	1	00590-05144-71	Ring, Nilos	R
20	1	00590-03833-71	Washer, Bearing, Lock	
21	1	00590-03832-71	Nut, Bearing, Lock	
22	1	00590-04135-71	Spring	R
23	1	00590-03986-71	Guide, Spring	
24	1	00590-03864-71	Screw	
25	1	00590-03807-71	Nut	
26	1	00590-03884-71	Screw	
27	1	00590-42135-71	Screw	
28	1	00590-03790-71	Nut	
29	1	00590-42136-71	Nut	
30	1	00590-04143-71	Shaft	A
	1	00590-04322-71	Shaft (Cold Storage/Corrosion)	A
31	1	00590-04144-71	Bracket	A
32	2	00590-03679-71	Bearing, Flanged	A, R
33	1	00590-03664-71	Pin, Roll	A
34	1	00590-04145-71	Pivot	A
	1	00590-04320-71	Pivot (Cold Storage/Corrosion)	A
35	3	00590-05155-71	Screw, Cap	A
36	1	00590-03912-71	Screw, Set	

A= Braking Caster Installation Only

R= Recommended Spare

List 2-6: Caster Assembly

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SECTION 3 Steering & Controls

Steering Assembly..... 3-3

Motor and Gearbox Assembly..... 3-6

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Steering Assembly

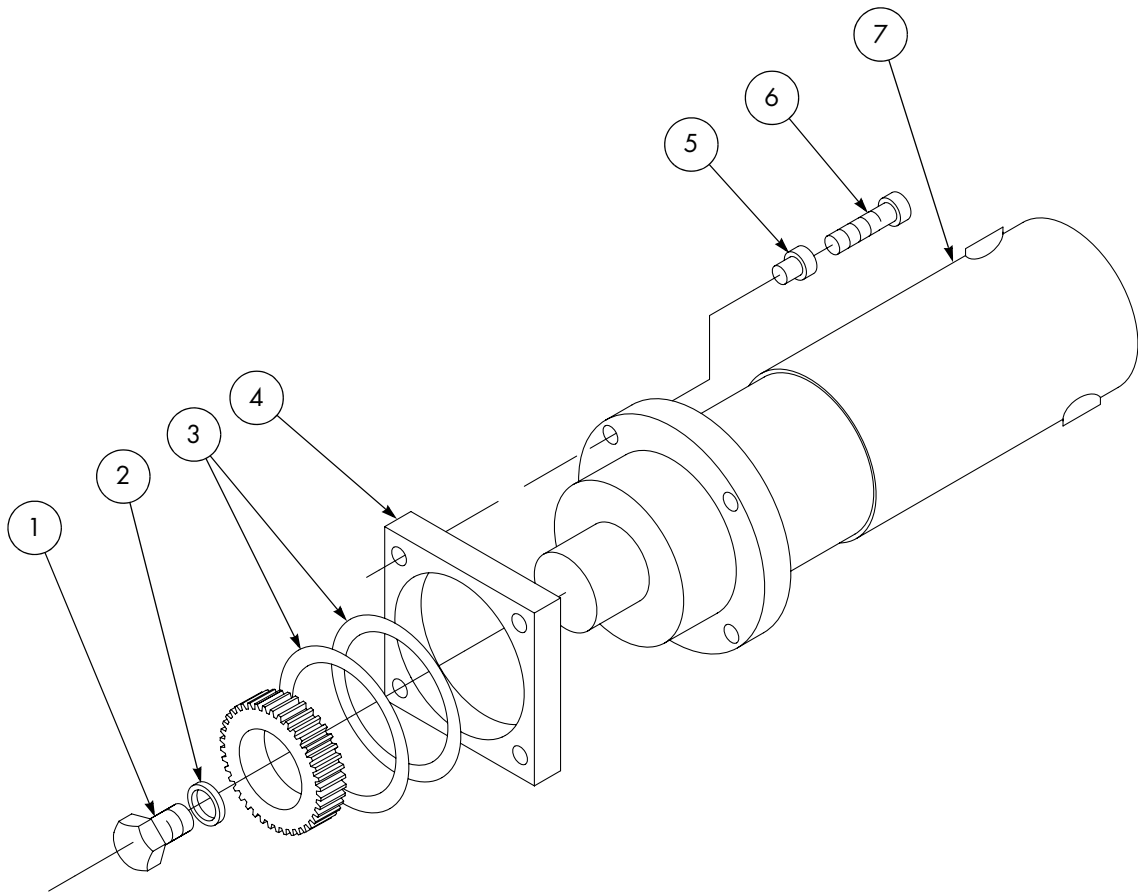
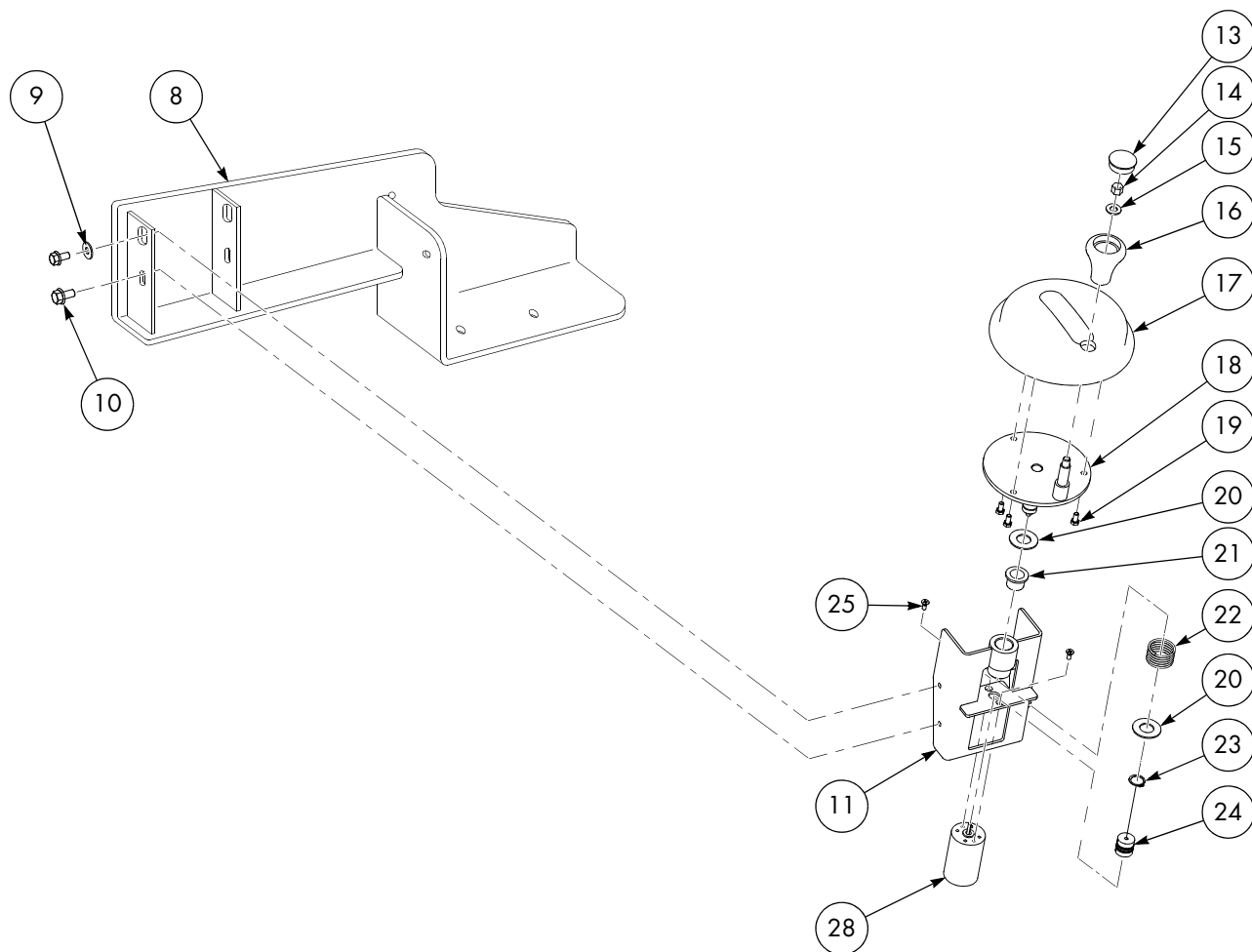


FIG_301

Figure 3-1a: Steering Assembly

Steering Assembly

Steering Assembly



308419-1

Figure 3-1b: Steering Assembly

Steering Assembly

FIGURE 3-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-03821-71	Screw	
2	1	00590-03886-71	Washer	
3	2	00590-03813-71	O-Ring	
4	1	00590-04221-71	Plate, Isolator	
5	2	00590-03750-71	Mount, Isolator	
6	2	00590-03863-71	Screw	
7	1	00590-04033-71	Motor & Gearbox Assembly (See Figure 3-2.)	A
	1	00590-04034-71	Motor & Gearbox Assembly (See Figure 3-2.)	B
8	1	00590-05204-71	Bracket, Control Weldment	
9	1	00590-40020-71	Washer, Flat	
10	2	00590-03915-71	Screw	
11	1	00590-40313-71	Steering Bracket	
13	1	00590-05206-71	Cap, Spinner	
14	1	00590-05207-71	Nut	
15	1	00590-03804-71	Washer	
16	1	00590-05208-71	Spinner	
17	1	00590-05209-71	Wheel, Steering	
18	1	00590-05210-71	Wheel Weldment, Steering	
19	3	00590-05205-71	Screw	
20	2	00590-05194-71	Bushing, Flat	
21	1	00590-41757-71	Bushing, Flanged	
22	1	00590-05196-71	Spring, Compression	
23	1	00590-40022-71	Ring, Retaining	
24	1	00590-05198-71	Coupler, Flex	
25	2	00590-03795-71	Screw	
28	1	00590-05203-71	Tachometer	

A= 24V

B= 36V

List 3-1: Steering Assembly

Motor and Gearbox Assembly

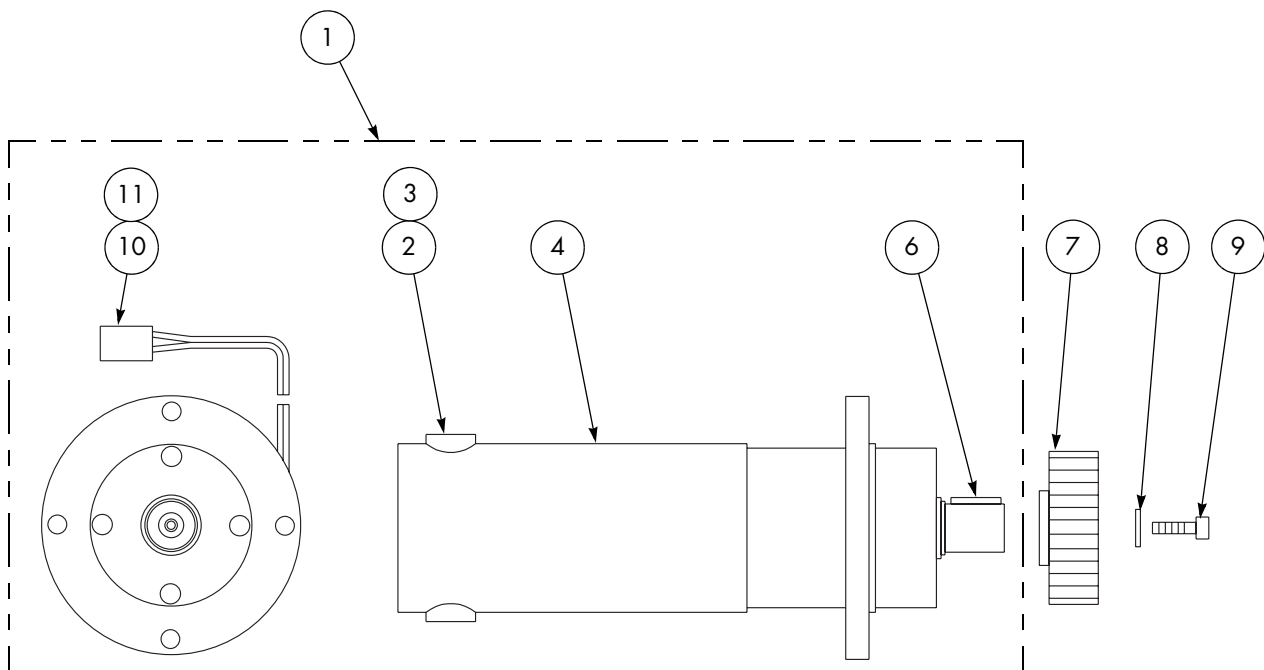


Figure 3-2: Motor and Gearbox Assembly

1730_000

Motor and Gearbox Assembly

FIGURE 3-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-03779-71	Motor & Gearbox Assembly	
1	1	00590-04033-71	Motor & Gearbox Assembly	A
	1	00590-04034-71	Motor & Gearbox Assembly	B
2	2	00590-04162-71	Brush, Motor	R
3	2	00590-04156-71	Cap, Brush	
4	1	00590-04157-71	Motor Assembly	A
	1	00590-04158-71	Motor Assembly	B
6	1	00590-03809-71	Key	
7	1	00590-03749-71	Gear	
8	1	00590-03886-71	Washer	
9	1	00590-03821-71	Screw	
10	1	00590-03722-71	Housing, Contact	
11	2	00590-03723-71	Pin, Contact	

A= 24V

B= 36V

R= Recommended Spare

List 3-2: Motor and Gearbox Assembly

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SECTION 4 Drive & Brake

Drive and Brake Assembly	4-2
Transmission Assembly	4-4
Drive Wheel Assembly.....	4-6
Brake Assembly - 6BRU23/6BDRU15/6BSU25	4-8
Pedal Assembly	4-10
Caster Brake Assembly - 6BRU23/6BDRU15/6BSU25	4-12
Electric Brake Assembly (Drive)	4-14

Drive and Brake Assembly

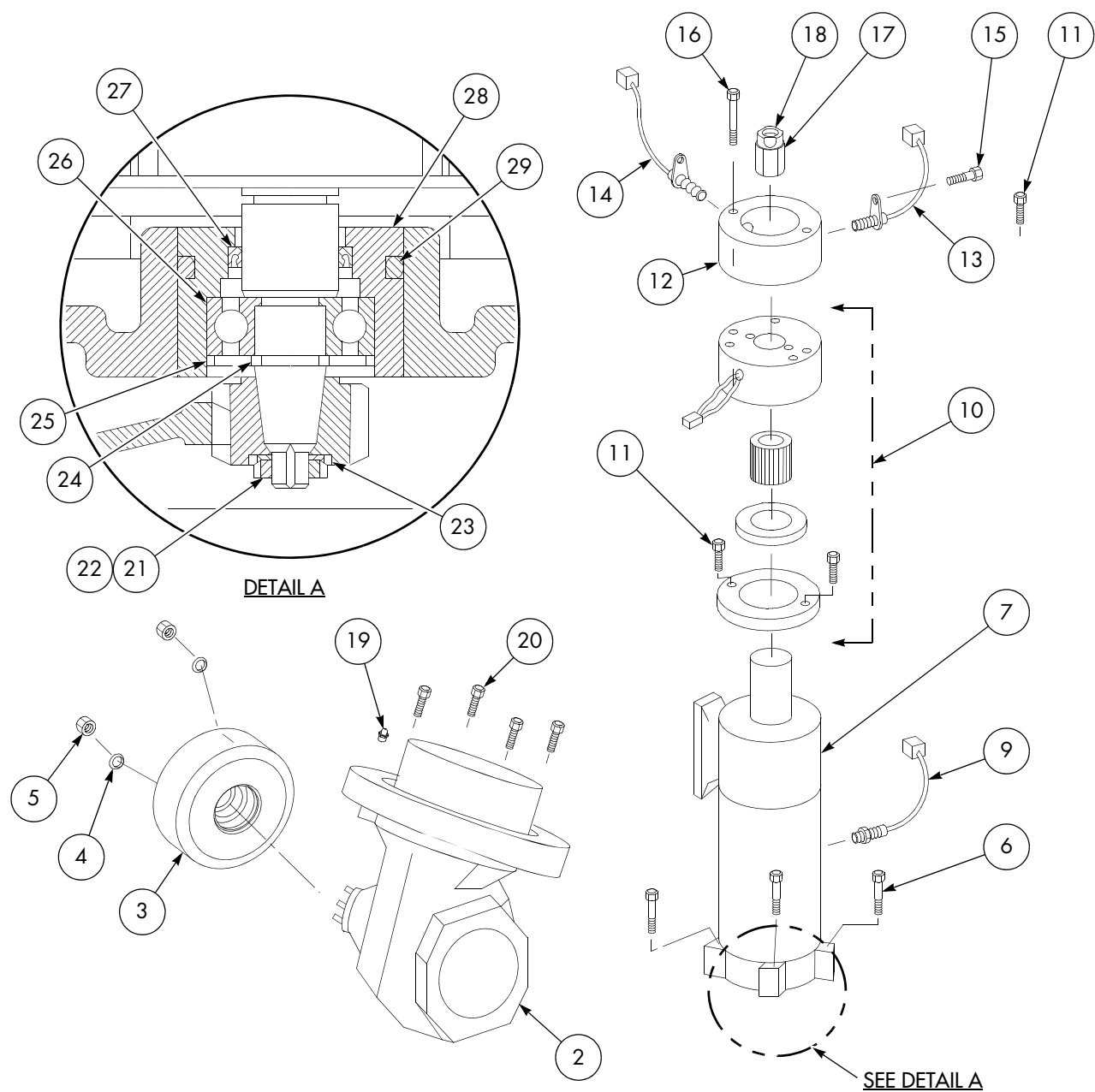


FIG_401A

Figure 4-1: Drive and Brake Assembly

Drive and Brake Assembly

FIGURE 4-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	1	Ref.	Transmission (See Figure 4-2.)	
3	1	Ref.	Wheel Assembly (See Figure 4-3.)	
4	7	00590-03777-71	Washer, Spherical	
5	7	00590-03810-71	Nut	
6	4	00590-39574-71	Screw	
7	1	00590-04445-71	Motor, Drive	A
	1	00590-04446-71	Motor, Drive	B
	1	00590-40907-71	Motor, Drive	C
9	1	00590-04401-71	Thermistor Assembly	
10	1	Ref.	Brake Assembly (See Figure 4-7.)	C
	1	Ref.	Brake Assembly (See Figure 4-7.)	A, B
11	3	00590-03818-71	Screw	
12	1	00590-04195-71	Housing, Sensor	
13	1	00590-04218-71	Sensor, Speed	
14	1	00590-04217-71	Sensor, Speed	
15	2	00590-03795-71	Screw	
16	2	00590-03828-71	Screw	
17	1	00590-04237-71	Spacer, Brake Sensor	
18	1	00590-04194-71	Nut, Sensor	
19	2	00590-03673-71	Fitting, Grease	
20	4	00590-03854-71	Screw	
21	1	00590-03819-71	Nut, Bearing	
22	1	00590-03853-71	Washer, Bearing Nut, Locking	
23	1	00590-03855-71	Washer	
24	1	00590-03786-71	Ring, Retainer	
25	1	00590-03782-71	Ring, Locking	
26	1	00590-03852-71	Bearing	R
27	1	00590-03869-71	Seal	R
28	1	00590-05176-71	Cap	
29	1	00590-03822-71	O-Ring	R

A= 6BRU18/6BSU20 (36V)

B= 6BRU23/6BDRU15/6BSU25

C= 6BRU18/6BSU20 (24V)

R= Recommended Spare

List 4-1: Drive and Brake Assembly

Transmission Assembly

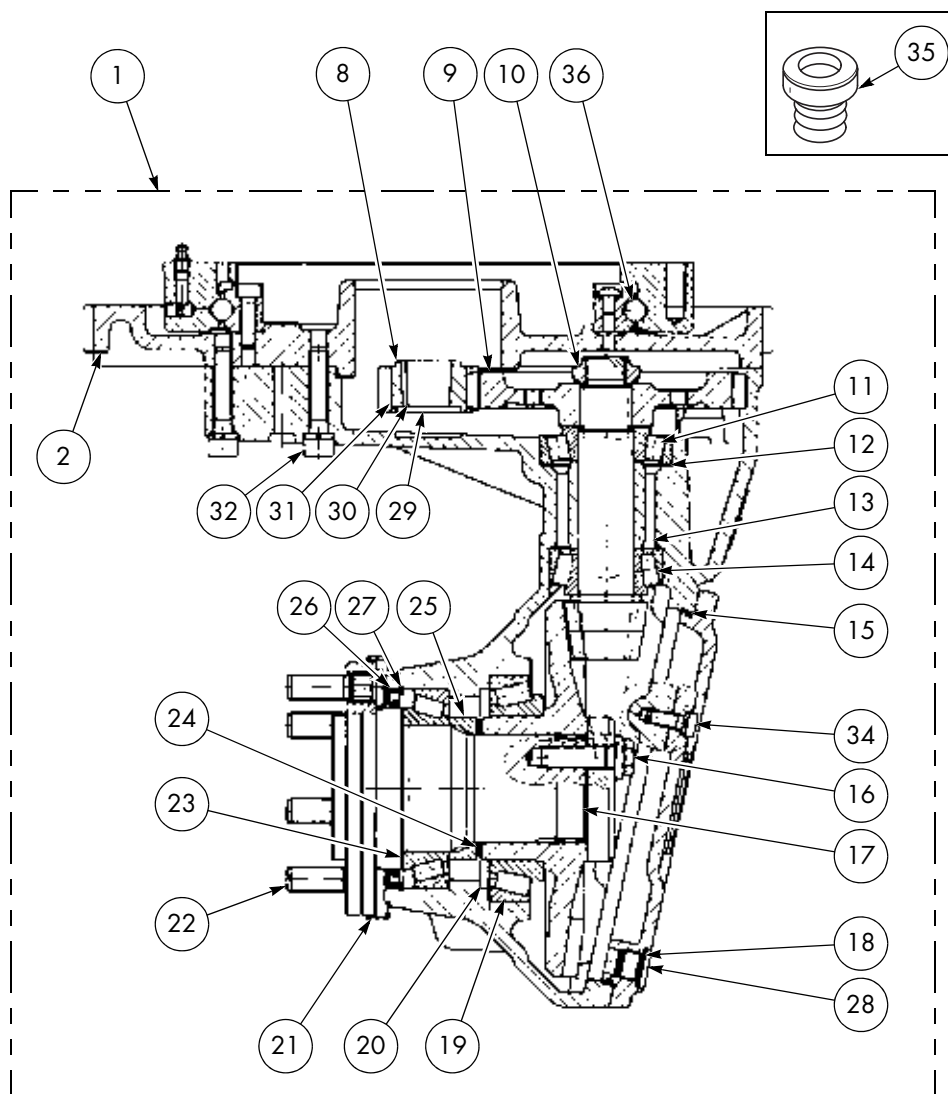


Figure 4-2: Transmission Assembly

2551_000

Transmission Assembly

FIGURE 4-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04131-71	Drive Unit Assembly	
2	1	00590-03721-71	Gear, Ring	
3	1	00590-03710-71	Kit, Bearing (Not Shown)	
4	1	00590-03711-71	Kit, Sealing (Not Shown)	R
5	1	00590-03728-71	Kit, Helical Gear (Not Shown)	
6	1	00590-03712-71	Kit, Wheel Shaft (Not Shown)	R
7	1	00590-03713-71	Kit, Bevel Gear (Not Shown)	
8	1	00590-03729-71	Gear, Pinion, Motor	C
9	1	00590-03730-71	Gear, Drive	C
10	1	00590-03731-71	Nut	A, C
11	1	00590-03745-71	Bearing	A, E
12	1	00590-03748-71	Kit, Shim	A
13	1	00590-03747-71	Kit, Shim	A
14	1	00590-03746-71	Bearing	A, E
15	1	00590-03736-71	O-Ring	A, B, D
16	3	00590-03742-71	Screw	A, D
17	1	00590-03733-71	Axle	D
18	1	00590-03732-71	Washer, Copper	A, B, C, D
19	1	00590-03739-71	Bearing	A, D, E
20	1	00590-03741-71	Kit, Shim	A, D, E
21	1	00590-03743-71	Cover, Ring	D
22	7	00590-03734-71	Screw	D
23	1	00590-03738-71	Bearing	A, D, E
24	1	00590-03740-71	Washer	A, D, E
25	1	00590-03744-71	Spacer	D
26	1	00590-03735-71	Ring, Sealing	A, B, D, E
27	1	00590-03737-71	Ring, Locking	A, D, E
28	1	00590-04173-71	Plug	A, B, C, D
29	1	00590-03819-71	Nut	
30	1	00590-03853-71	Washer	
31	1	00590-03855-71	Washer	
32	10	00590-03836-71	Screw	
34	1	00590-40025-71	Screw	
35	1	00590-40026-71	Plug, Fill	
36	1	00590-40556-71	Bearing, Steering	

A= Included in Item 3
 B= Included in Item 4
 C= Included in Item 5
 D= Included in Item 6
 E= Included in Item 7
 R= Recommended Spare

List 4-2: Transmission Assembly

Drive Wheel Assembly

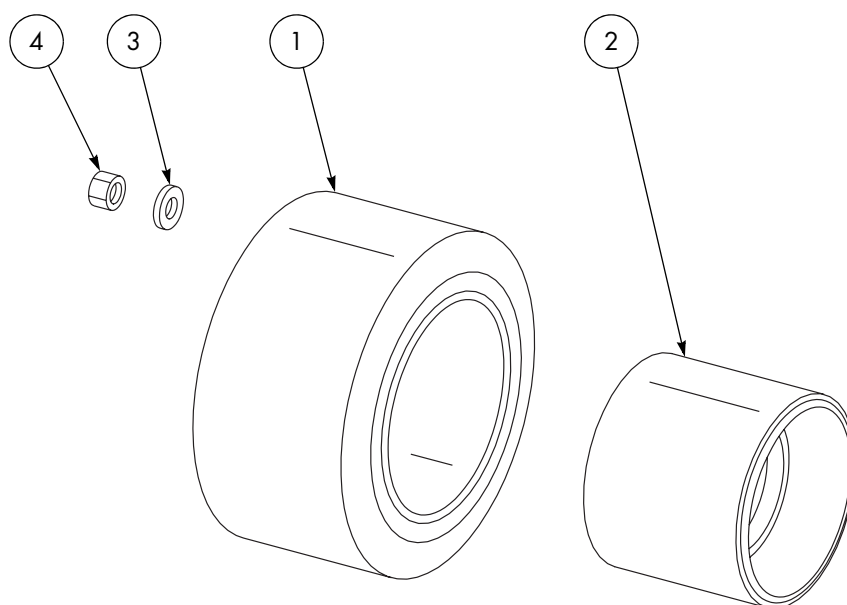


Figure 4-3: Drive Wheel Assembly

3531-001

Drive Wheel Assembly

FIGURE 4-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04148-71	Tire, Vulkollan, Orange, 93 Durometer	
	1	00590-40027-71	Tire, Poly, Orange, 93 Durometer	
	1	00590-40028-71	Tire, Poly, Black, 93 Durometer	
	1	00590-40029-71	Tire, Poly, Red, 85 Durometer	
	1	00590-40030-71	Tire, Poly, Razor Siped, 83 Durometer	B
	1	00590-40031-71	Tire, Dylon A, 95 Durometer	C
	1	00590-40032-71	Tire, Dylon B, 83 Durometer	
		00590-04007-71	Tire, Rubber Smooth	A
2	1	00590-04005-71	Hub, Drive Wheel	
3	7	00590-03777-71	Washer, Spherical	
4	7	00590-03810-71	Nut	

A= 6BSU20

B= 6BSU25/6BDRU15

C= 6BRU18/6BRU23/6BDRU15

List 4-3: Drive Wheel Assembly

Brake Assembly - 6BRU23/6BDRU15/6BSU25

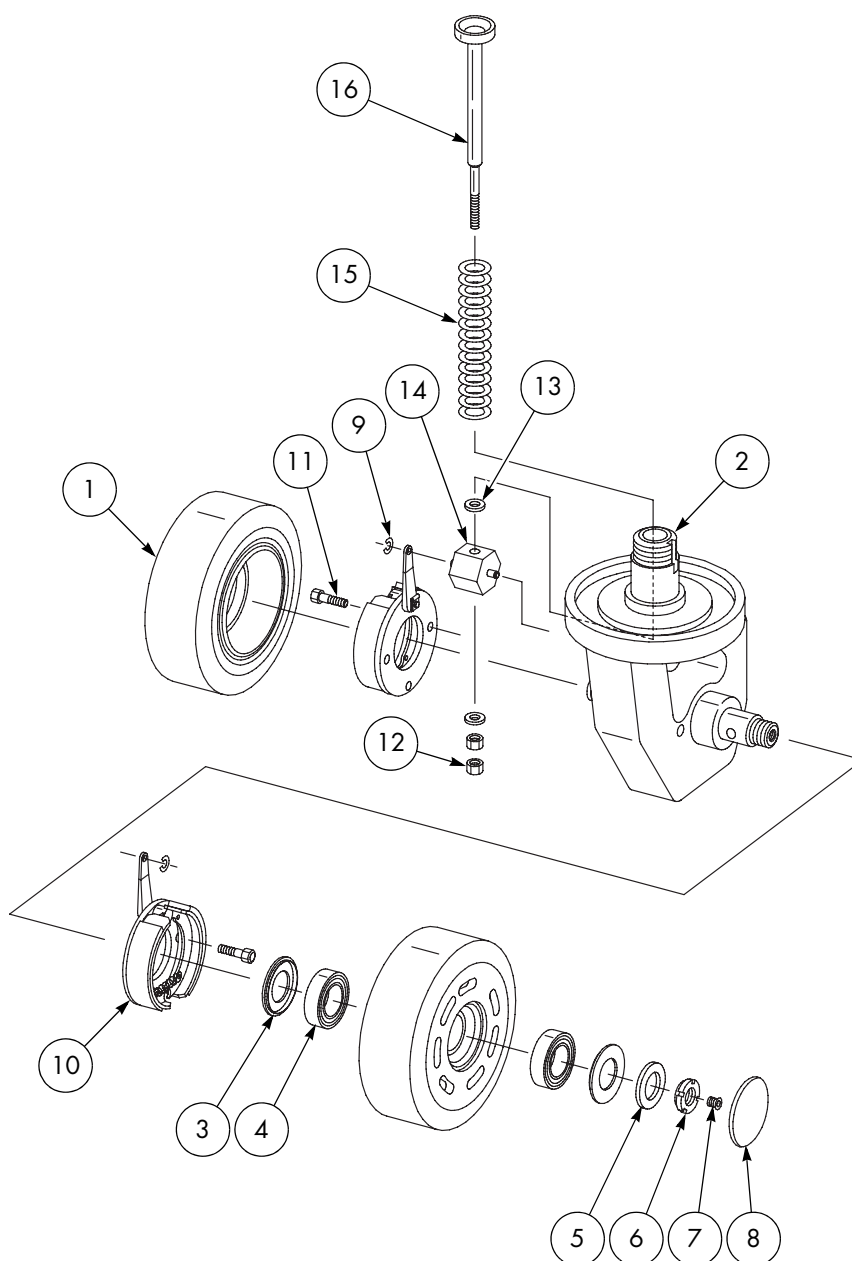


Figure 4-4: Brake Assembly - 6BRU23/6BDRU15/6BSU25

Brake Assembly - 6BRU23/6BDRU15/6BSU25

FIGURE 4-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04004-71	Wheel Assembly, Caster	
2	1	00590-39878-71	Bracket, Caster	
3	2	00590-05143-71	Ring, Nilos	
4	2	00590-03674-71	Bearing	R
5	2	00590-03784-71	Washer, Lock	
6	2	00590-03785-71	Nut, Lock	
7	2	00590-03672-71	Fitting, Grease	
8	2	00590-04037-71	Cap, Wheel	
9	2	00590-03705-71	Ring, E	
10	2	00590-03834-71	Brake Assembly (See Figure 4-6.)	
11	1	00590-05154-71	Screw	
12	1	00590-03923-71	Nut	
13	1	00590-03803-71	Washer	
14	1	00590-04146-71	Pivot, Brake	
15	1	00590-04141-71	Spring	R
16	1	00590-04142-71	Plunger	

R= Recommended Spare

List 4-4: Brake Assembly - 6BRU23/6BDRU15/6BSU25

Pedal Assembly

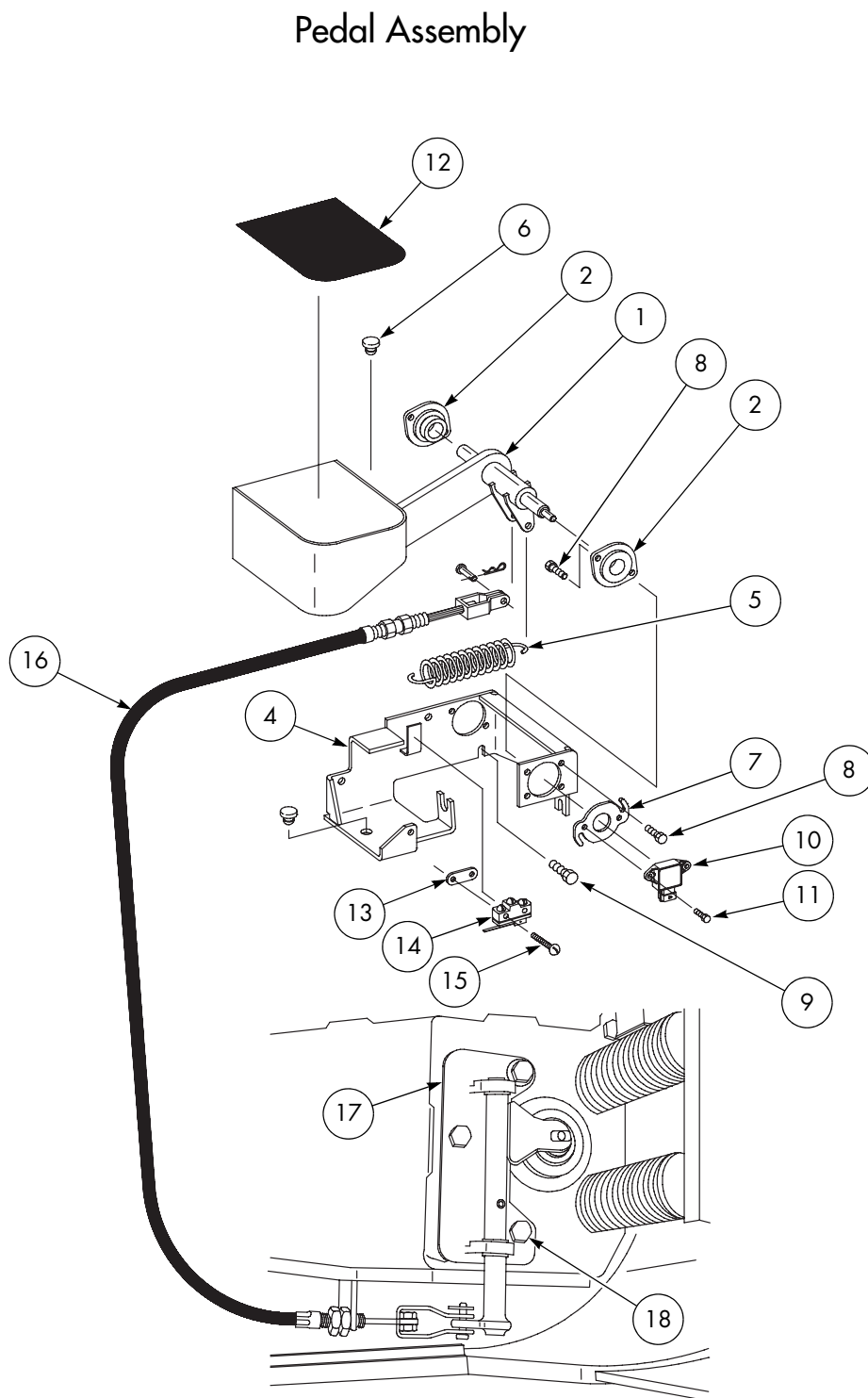


Figure 4-5: Pedal Assembly

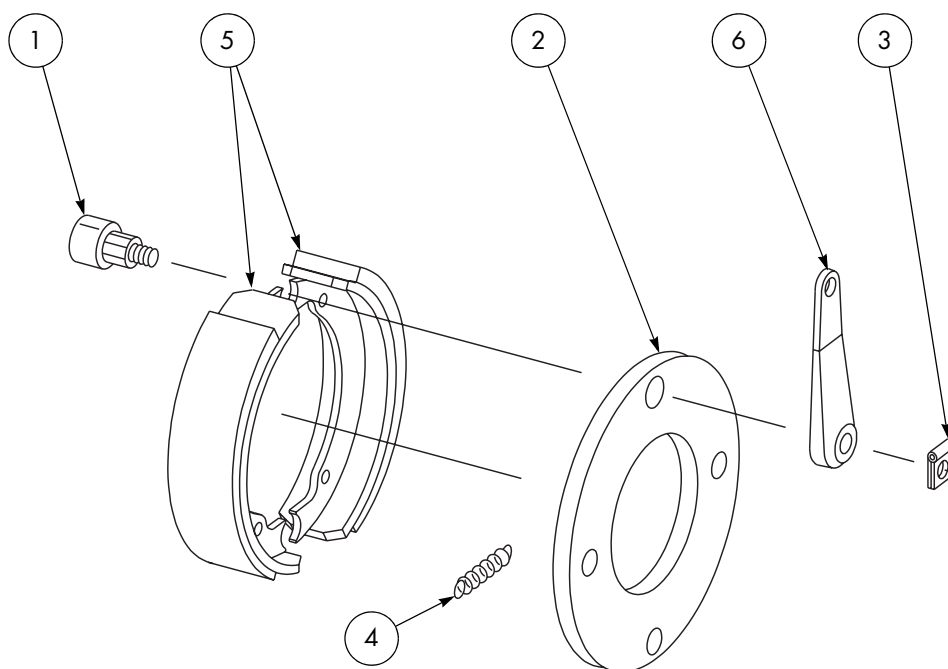
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FIGURE 4-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-04361-71	Pedal Assembly	
1	1	00590-03989-71	Pedal Weldment	
2	2	00590-03998-71	Bearing, Flanged	R
4	1	00590-03990-71	Bracket, Weldment, Brake	
5	1	00590-04288-71	Spring	R
6	1	00590-03812-71	Bumper	
7	1	00590-04027-71	Plate, Switch Mounting	
8	6	00590-03915-71	Screw	
9	4	00590-03917-71	Screw	
10	1	00590-04289-71	Potentiometer, Brake	R
	2	00590-05122-71	Terminal	
11	1	00590-03914-71	Screw	
	2	00590-03699-71	Screw	
12	1	00590-40624-71	Mat	
13	1	00590-03773-71	Nut	
14	1	00590-03798-71	Switch, Brake	R
15	2	00590-03699-71	Screw	
16	1	00590-04330-71	Cable Sealed (Cold Storage)	
	1	00590-04147-71	Cable	
17	1	00590-04144-71	Bracket	
18	3	00590-04145-71	Bolt	

R= Recommended Spare

List 4-5: Pedal Assembly

Caster Brake Assembly - 6BRU23/6BDRU15/6BSU25



3361_000

Figure 4-6: Caster Brake Assembly - 6BRU23/6BDRU15/6BSU25

Caster Brake Assembly - 6BRU23/6BDRU15/6BSU25

FIGURE 4-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-03834-71	Caster Brake Assembly	
1	1	00590-03889-71	Cam	
2	1	00590-05286-71	Plate	
3	1	00590-03891-71	Clip	
4	2	00590-03893-71	Spring	R
5	2	00590-03892-71	Shoe	R
6	1	00590-03890-71	Lever	

R= Recommended Spare

List 4-6: Caster Brake Assembly - 6BRU23/6BDRU15/6BSU25

Electric Brake Assembly (Drive)

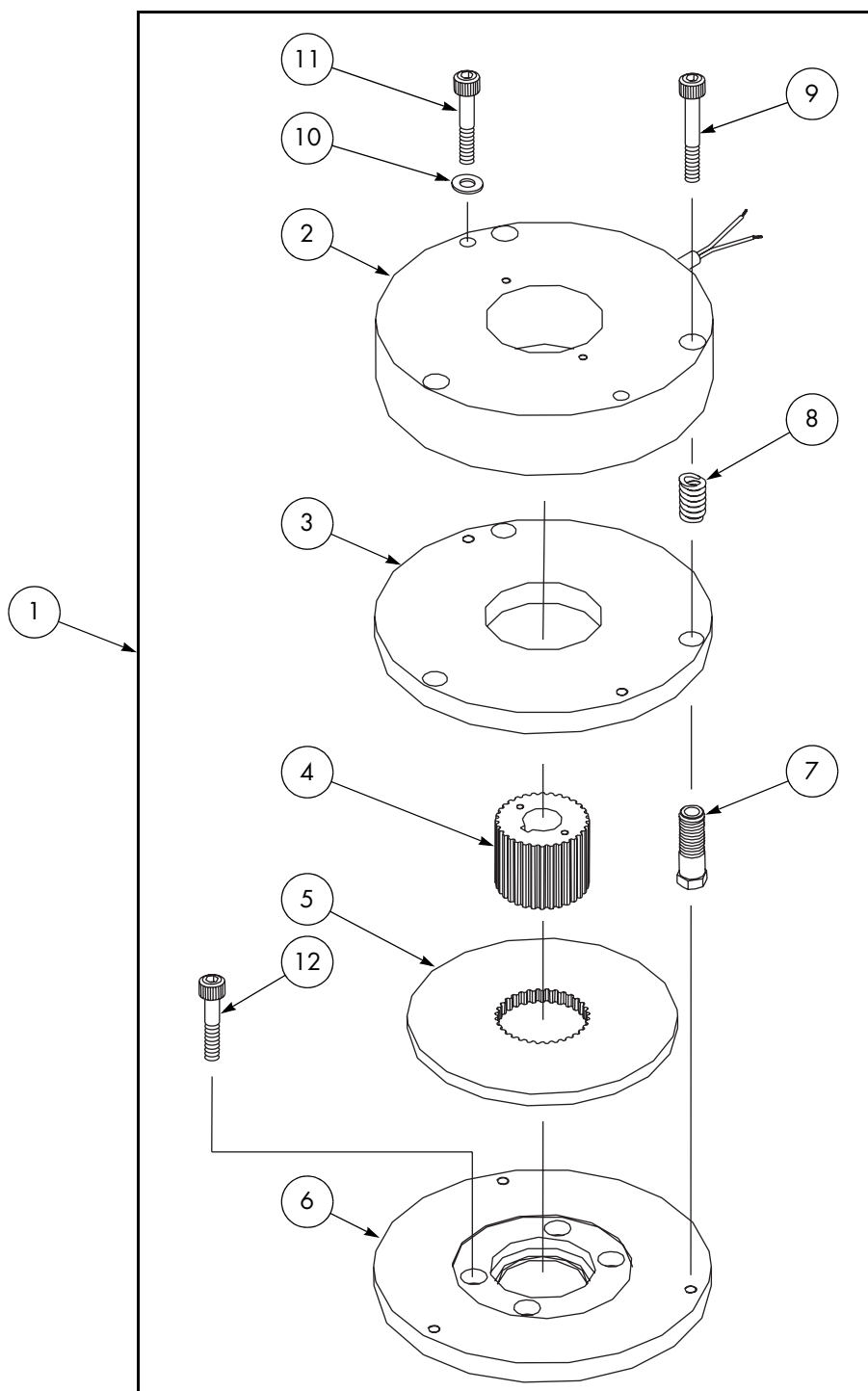


Figure 4-7: Electric Brake Assembly (Drive)

3371_000

Electric Brake Assembly (Drive)

FIGURE 4-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1		00590-42252-71	Brake Assembly	A
		00590-42253-71	Brake Assembly	B
2	1	00590-04179-71	Coil	A
	1	00590-04180-71	Coil	B
3	1	00590-04181-71	Armature	
4	1	00590-04182-71	Hub	
5	1	00590-04183-71	Plate, Friction	
6	1	00590-04184-71	Plate, Mounting	
7	3	00590-04185-71	Spacer	
8	12	00590-04186-71	Spring	
9	3	00590-04187-71	Screw	
10	2	00590-04188-71	Washer	
11	2	00590-04189-71	Screw	
12	4	00590-03818-71	Screw	

A= 24V

B= 36V

List 4-7: Electric Brake Assembly (Drive)

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SECTION 5 Electrical Components and Systems

Electrical Installation	5-2
Electrical Wiring and Power Cable Assembly	5-8
Electrical Controller Assembly	5-10
Contactor	5-12
Proximity Sensor, Reach Assembly (All Models)	5-14
Accessories Assembly	5-16
Light & Fan Console Assembly	5-18
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Drive Motor	5-22
Pump Motor - 6BRU23/6BDRU15/6BSU25	5-24
Pump Motor - 6BRU18/6BSU20	5-26
Control Handle Assembly	5-28

Electrical Installation

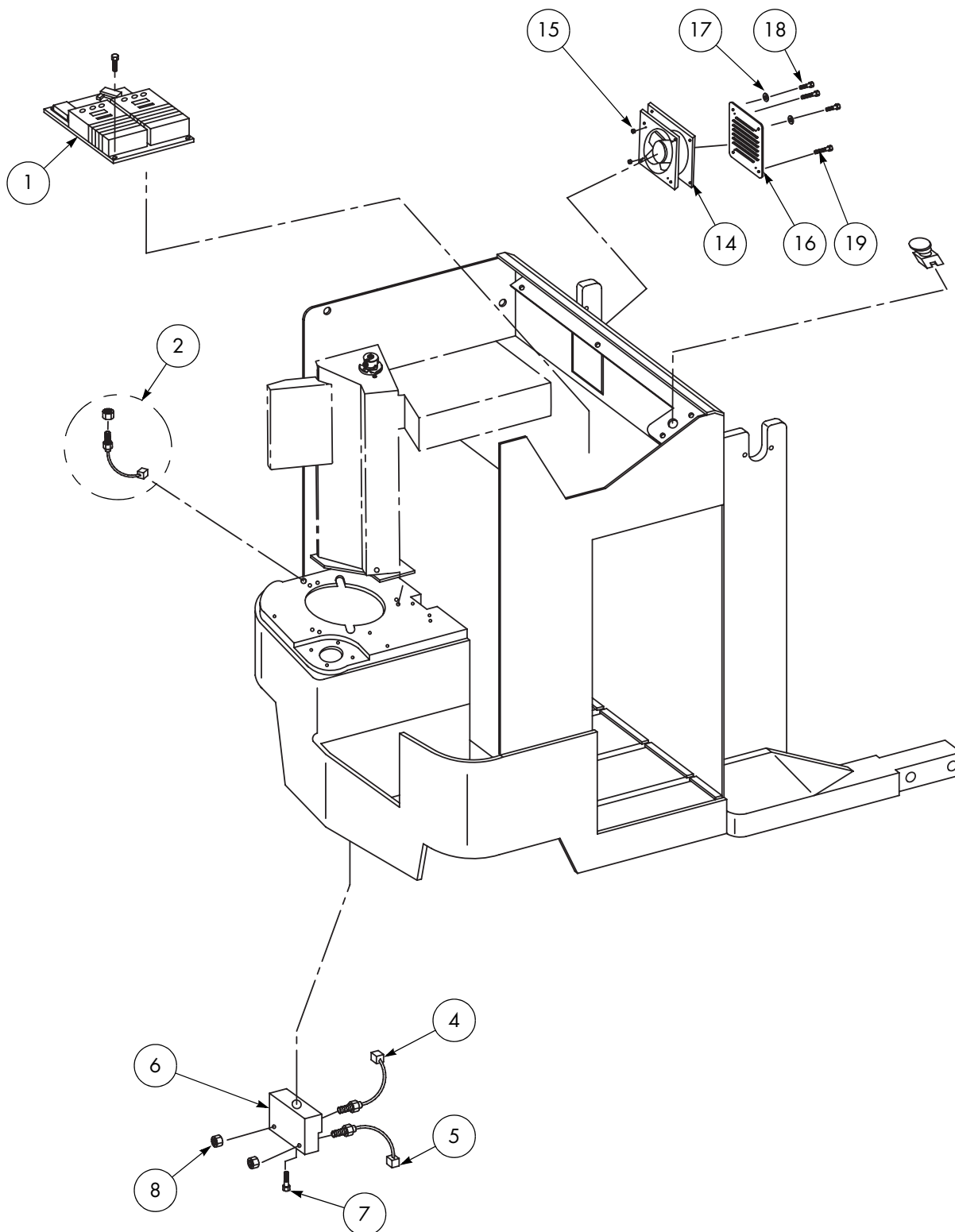


Figure 5-1a: Electrical Installation

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Electrical Installation

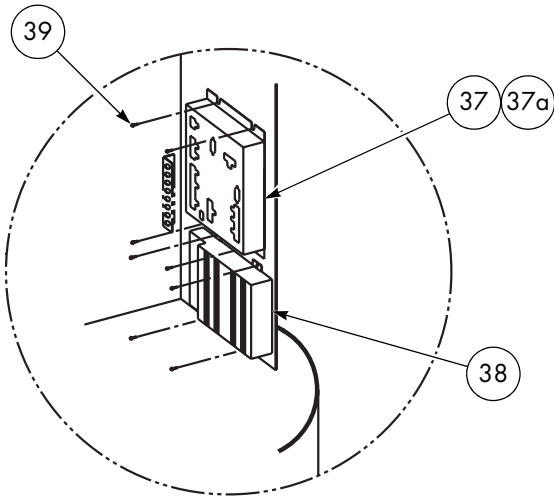
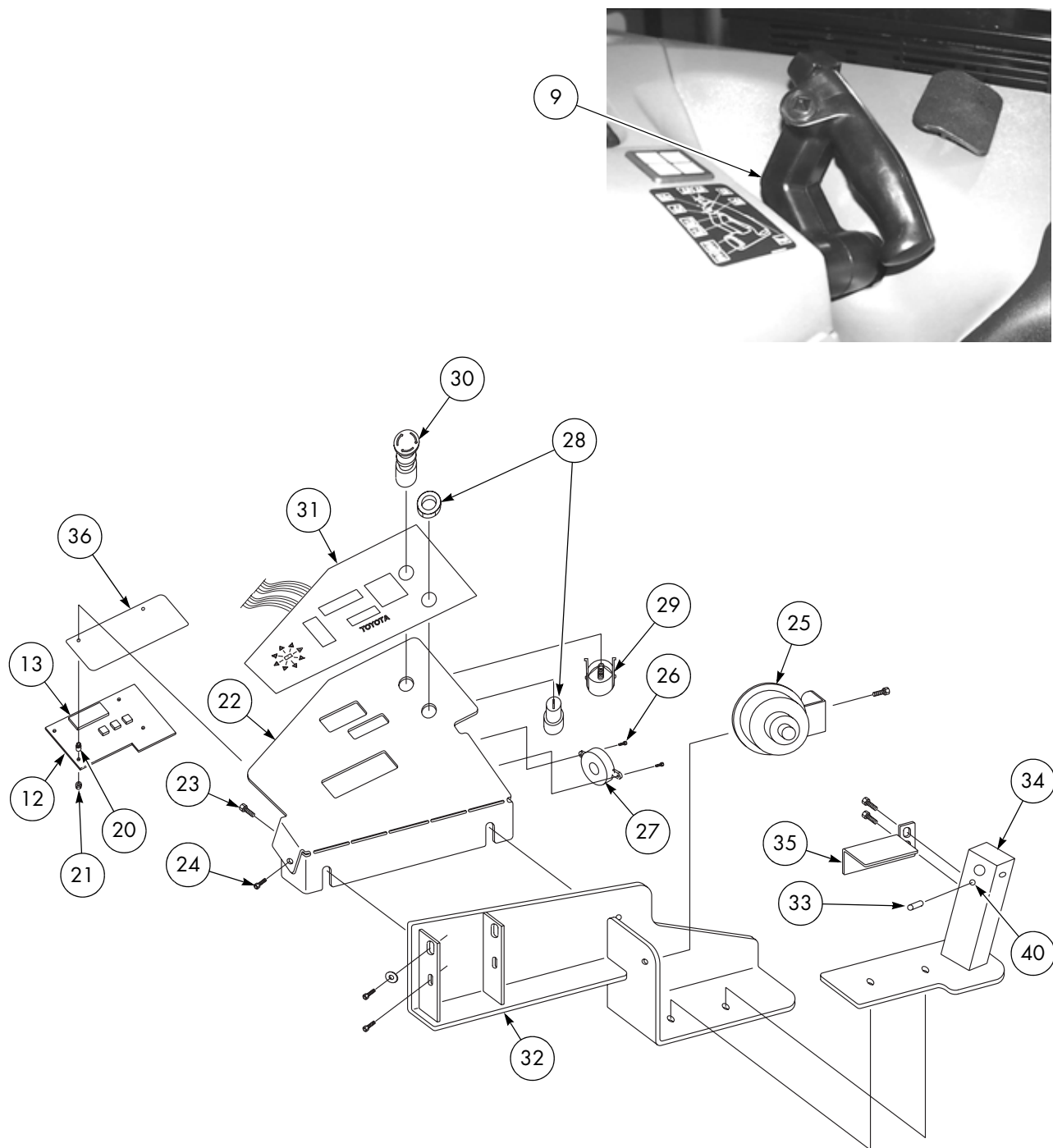


Figure 5-1b: Electrical Installation

307731-9

Electrical Installation



308419-1B

Figure 5-1c: Electrical Installation

FIGURE 5-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Control, Electric Assembly (See Figure 5-3.)	
2	1	00590-39572-71	Sensor, 180°	
4	1	00590-03725-71	Sensor Direction (Gray Connector)	
5	1	00590-03726-71	Sensor Direction (Blue Connector)	
6	1	00590-04304-71	Block, Sensor Mounting	
7	2	00590-03783-71	Screw	
8	2	00590-03883-71	Nut	
9	1	00590-41759-71	Control Handle Assembly (See Figure 5-12.)	A
	1	00590-43006-71	Control Handle Assembly (See Figure 5-12.)	B
10	1	00590-42154-71	Wiring Main Harness (Not Shown)	
12	1	00590-42186-71	Card Assembly, Display	
13	1	00590-46382-71	Firmware	
14	1	00590-05055-71	Fan, Muffin, 24V (3500 LB)	
	1	00590-05054-71	Fan, Muffin, 36V (3500 LB)	
	1	00590-04155-71	Fan, Muffin, 36V (4500 LB)	
15	2	00590-03794-71	Nut	
16	1	00590-04331-71	Plate, Grill	
17	4	00590-03814-71	Washer	
18	6	00590-03917-71	Screw	
19	2	00590-03850-71	Screw	
20	4	00590-05222-71	Spacer, PCB	
21	4	00590-05223-71	Nut, Nylon	
22	1	00590-39667-71	Plate, Display Weldment	
23	2	00590-05185-71	Screw	
24	1	00590-03915-71	Screw	
25	1	00590-45655-71	Horn, 24V	
	1	00590-42261-71	Horn, 36V	
26	2	00590-05215-71	Screw	
27	1	00590-05216-71	Horn, Piezo	
28	1	00590-00539-71	Switch, Lock (includes:)	
	1	00590-04577-71	Key Set (Not Shown)	
29	1	00590-05219-71	Block, Contact, Yellow	
30	1	00590-05220-71	Actuator, Push Button, Emergency Off	
31	1	00590-05221-71	Display Lens (w/ribbon cables)	
32	1	00590-05204-71	Bracket, Control	
33	1	00590-39651-71	Pin, Dowel	
34	1	00590-39636-71	Bracket, Control	
35	1	00590-40036-71	Bracket, Support	
36	1	00590-40037-71	Shield, Spill	
37	1	00590-47087-71	Card Assembly, Tractor Interface	
37a	1	00590-41761-71	Module (On item 37, connects to control handle cable PS10)	
38	1	00590-39590-71	Controller, Steer (24V)	

A= Standard
B= Cold Storage

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

Electrical Installation

FIGURE 5-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-39591-71	Controller, Steer (36V)	
39	8	00590-40038-71	Screw	
40	1	00590-43965-71	Spring, Torsion	

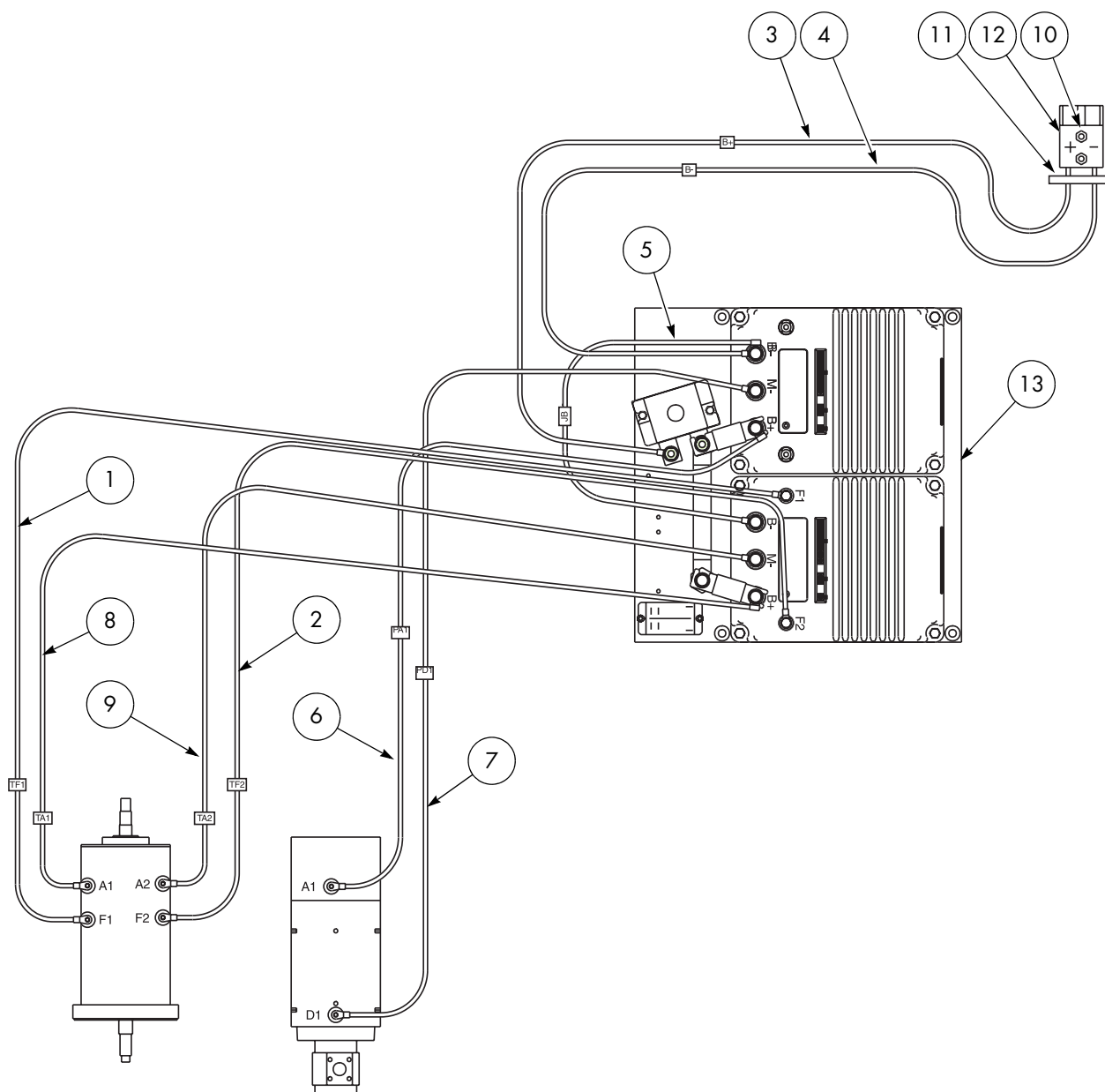
A= Standard

B= Cold Storage

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

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Electrical Wiring and Power Cable Assembly



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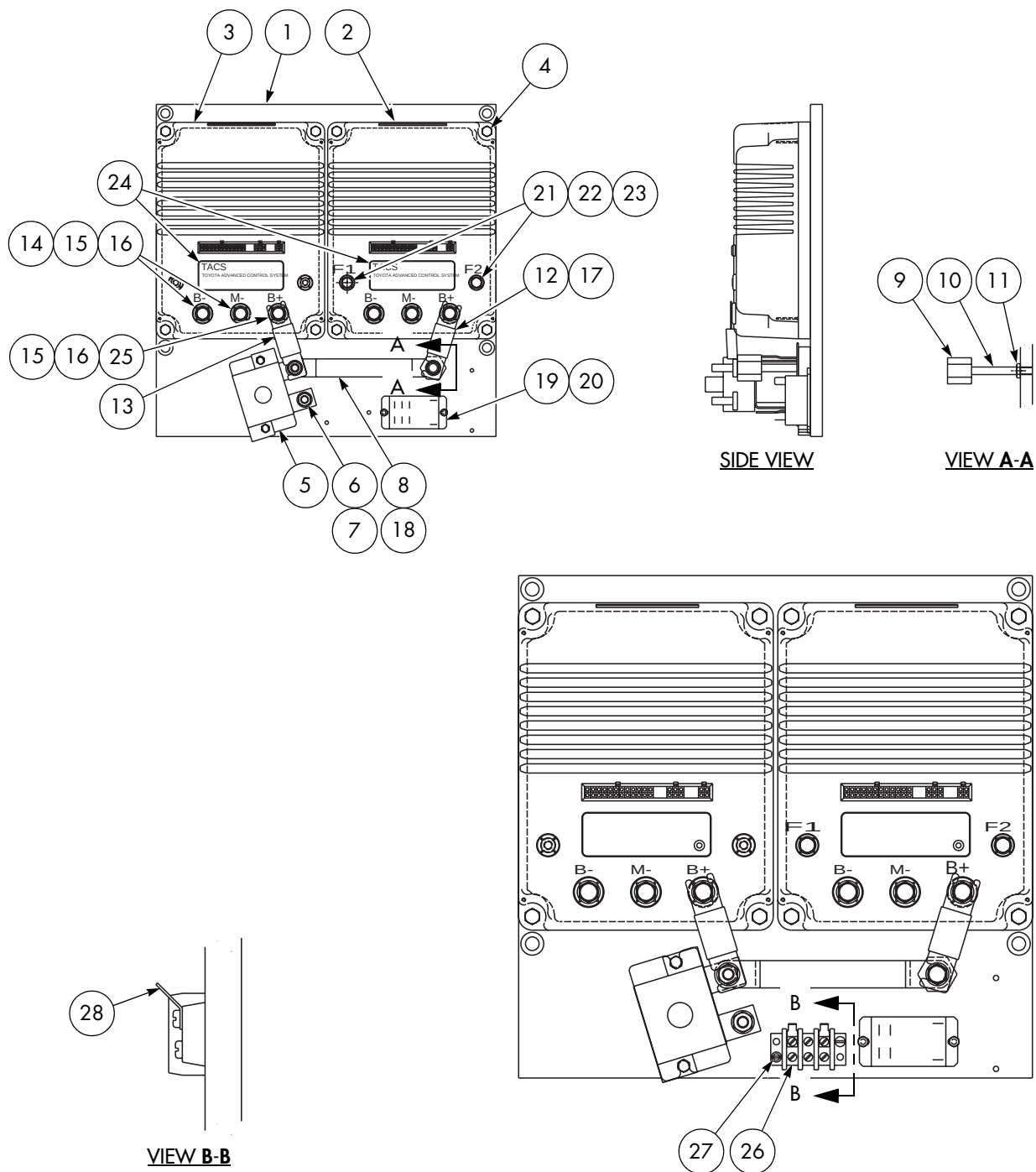
Figure 5-2: Electrical Wiring and Power Cable Assembly

FIGURE 5-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04049-71	Cable	
2	1	00590-04050-71	Cable	
3	1	00590-04234-71	Cable	
4	1	00590-04235-71	Cable	
5	1	00590-04236-71	Cable	
6	1	00590-40039-71	Cable	
7	1	00590-04231-71	Cable	
8	1	00590-04232-71	Cable	
9	1	00590-40040-71	Cable	
10	2	00590-03831-71	Screw	
11	1	00590-03681-71	Grommet	
12	1	00590-05125-71	Connector, Battery	A
	1	00590-05126-71	Connector, Battery	B
13	1	Ref.	Controller Assembly, Electrical (See Figure 5-3.)	

A= 24V
B= 36V

List 5-2: Electrical Wiring and Power Cable Assembly

Electrical Controller Assembly



308412-1/308480-1

Figure 5-3: Electrical Controller Assembly

FIGURE 5-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04402-71	Plate, HeatSink	
2	1	00590-46969-71	Controller, Traction, 400A	A, D, H
	1	00590-46088-71	Controller, Traction, 500A	G
3	1	00590-45709-71	Controller, Lift, 600A	A, D
	1	00590-46655-71	Controller, Lift, 750A	B, C, E
4	8	00590-03821-71	Screw	
5	1	00590-04418-71	Plate Contactor	
6	1	00590-39946-71	Contactor, 24V (See Figure 5-4.)	F
	1	00590-04305-71	Contactor, 36V (See Figure 5-4.)	H
7	2	00590-03827-71	Screw	
8	1	00590-04420-71	Bar, Buss	
9	1	00590-04264-71	Standoff	
10	1	00590-03778-71	Stud, M8	
11	1	00590-03788-71	Nut, Jam, M8	
12	1	00590-04018-71	Fuse, Power 250A	
13	1	00590-04020-71	Fuse, Power 500A	B, C, E
	1	00590-04018-71	Fuse, Power 355A	A, D
	1	00590-05288-71	Fuse, Power 425A	A, D, F
14	2	00590-05154-71	Screw	
15	2	00590-03804-71	Washer	
16	2	00590-05153-71	Washer, Lock	
17	1	00590-03867-71	Decal, 250A	
18	1	00590-03868-71	Decal, 500A	B, C, E
	1	00590-05289-71	Decal, 355A	A, D
	1	00590-05290-71	Decal, 425A	A, D, F
19	1	00590-40042-71	Relay, Sealed	
20	2	00590-03858-71	Screw	
21	2	00590-03795-71	Screw	
22	2	00590-05148-71	Washer, Flat	
23	2	00590-03643-71	Washer, Lock	
24	2	00590-40043-71	Decal, Controller	
25	4	00590-40044-71	Washer	
26	1	00590-05225-71	Strip, Terminal	
27	1	00590-05226-71	Screw	
28	1	00590-05227-71	Fitting, Wire	

A= 6BRU18

B= 6BRU23

C= 6BDRU15

D= 6BSU20

E= 6BSU25

F= 24V ONLY

G= All except 36V 6BRU18/6BSU20

H= 36V ONLY

List 5-3: Electrical Controller Assembly

Contactor

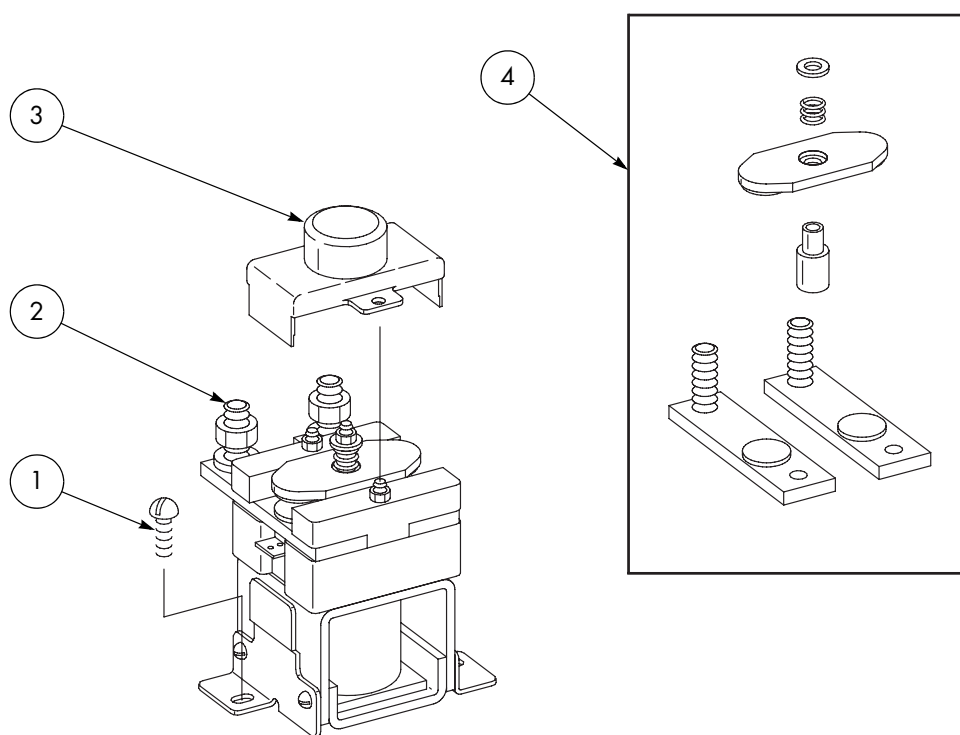
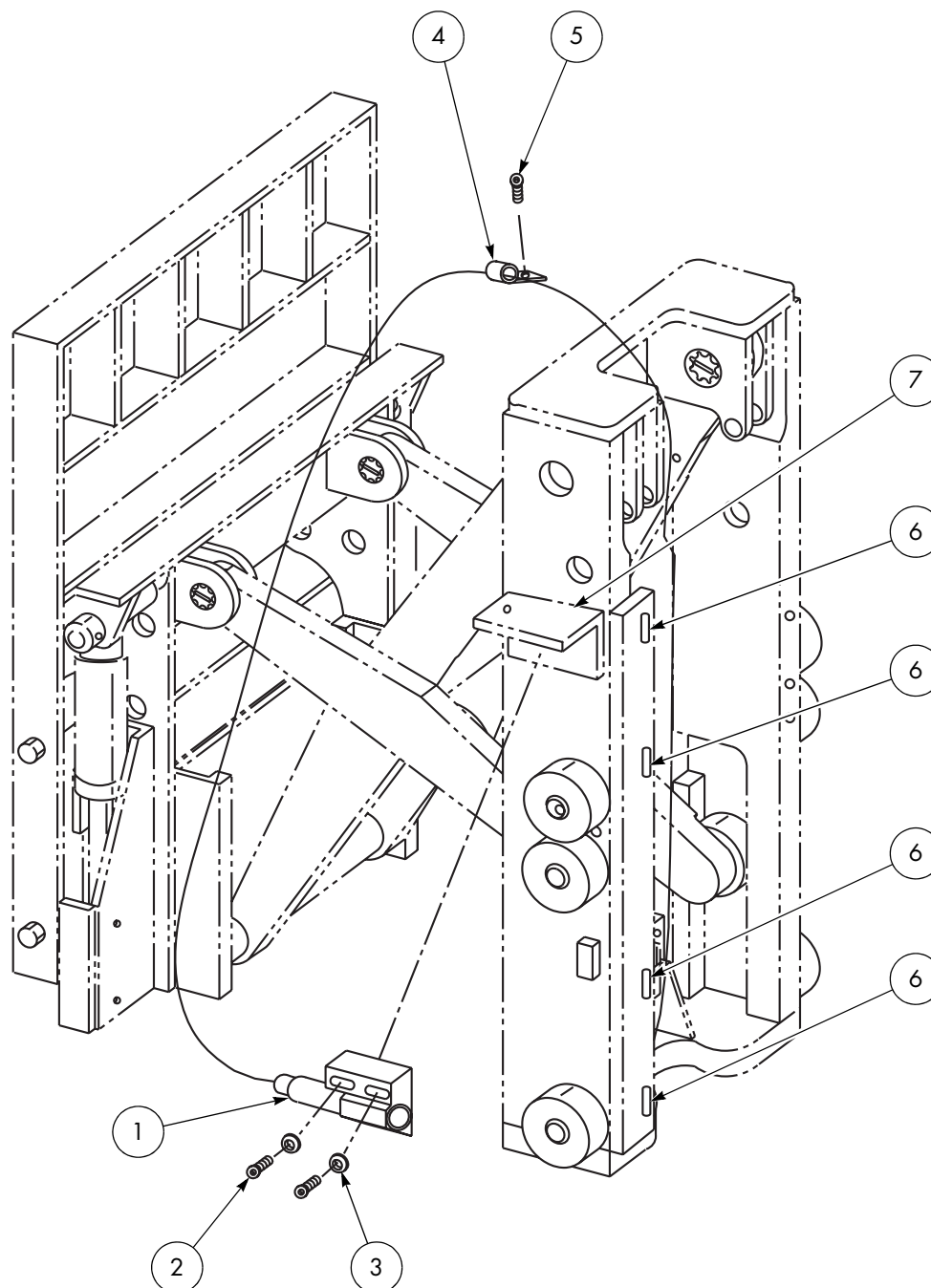


Figure 5-4: Contactor

FIGURE 5-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-39946-71	Contactor	
1	2	00590-05205-71	Screws	
2	1	00590-39946-71	Contactor (24V)	
	1	00590-04305-71	Contactor (36V)	
3	1	00590-40045-71	Cover, Bridge	
4	1	00590-40046-71	Kit, Service (24V)	
	1	00590-40047-71	Kit, Service (36V)	

List 5-4: Contactor

Proximity Sensor, Reach Assembly (All Models)



307708-1

Figure 5-5: Proximity Sensor, Reach Assembly (All Models)

Proximity Sensor, Reach Assembly (All Models)

FIGURE 5-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-04350-71	Proximity Sensor, Reach Assembly (All Models)	
1	1	00590-04240-71	Sensor Assembly (includes:)	
	1	00590-40261-71	Bracket, Plastic	
2	2	00590-04260-71	Screw	
3	2	00590-03814-71	Washer	
4	1	00590-04220-71	Clamp	
5	1	00590-03858-71	Screw	
6	5	00590-03847-71	Strap	
7	1	00590-43042-71	Bracket	
8	1	00590-40854-71	Harness (Sensor to Height Indicator) (Not Shown)	

List 5-5: Proximity Sensor, Reach Assembly (All Models)

Accessories Assembly

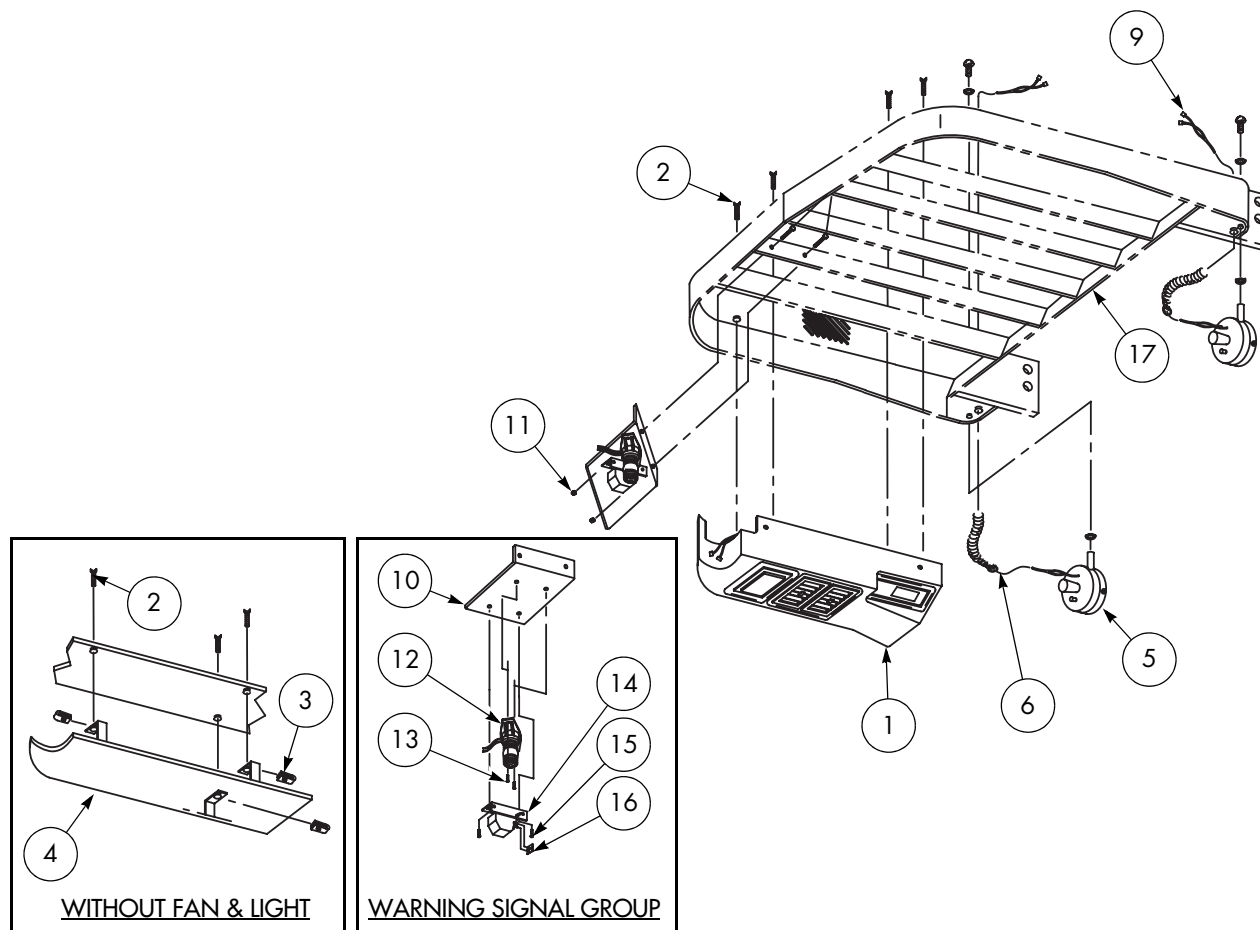


Figure 5-6: Accessories Assembly

307731_6

FIGURE 5-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Console Assembly, Overhead Guard (See Figure 5-7.)	
2	8	00590-03917-71	Screw	A, B, C, D
3	3	00590-03756-71	Nut, Clip	A, B, C, D
4	1	00590-04161-71	Plate, Filler (Overhead Guard)	A
5	2	00590-05058-71	Lamp Assembly (includes:)	B, E
	1	00590-05291-71	Light, Sealed, 24V (Not Shown)	B, E
	2	00590-05059-71	Lamp Assembly (includes:)	C, F
	1	00590-05292-71	Light, Sealed, 36V (Not Shown)	C, F
6	2	00590-05164-71	Conduit	B, C, E, F
9	2	00590-05121-71	Terminal	B, C, E, F
10	1	00590-04416-71	Bracket, Overhead Guard	
11	2	00590-03788-71	Nut	
12	1	00590-04051-71	Light, Amber Flashing (includes:)	
	1	00590-39652-71	Lens, Amber	
	1	00590-04052-71	Light, Red Flashing (includes:)	
	1	00590-39653-71	Lens, Red	
	1	00590-04053-71	Light, Strobe, Amber	
	1	00590-04054-71	Light, Strobe, Red	
	1	00590-05293-71	Bulb, Flashing (Not Shown)	
13	2	00590-03858-71	Screw	
14	1	00590-05053-71	Alarm	
15	2	00590-03865-71	Screw	
16	1	00590-05120-71	Terminal	
17	1	00590-05117-71	Clip, Wire	

A= w/o Light and Fan Package

B= 24V, Light and Fan with Work Lights

C= 36V, Light and Fan with Work Lights

D= 24/36V Light and Fan w/o Work Lights

E= 24V Work Light

F= 36V Work Light

List 5-6: Accessories Assembly

Light & Fan Console Assembly

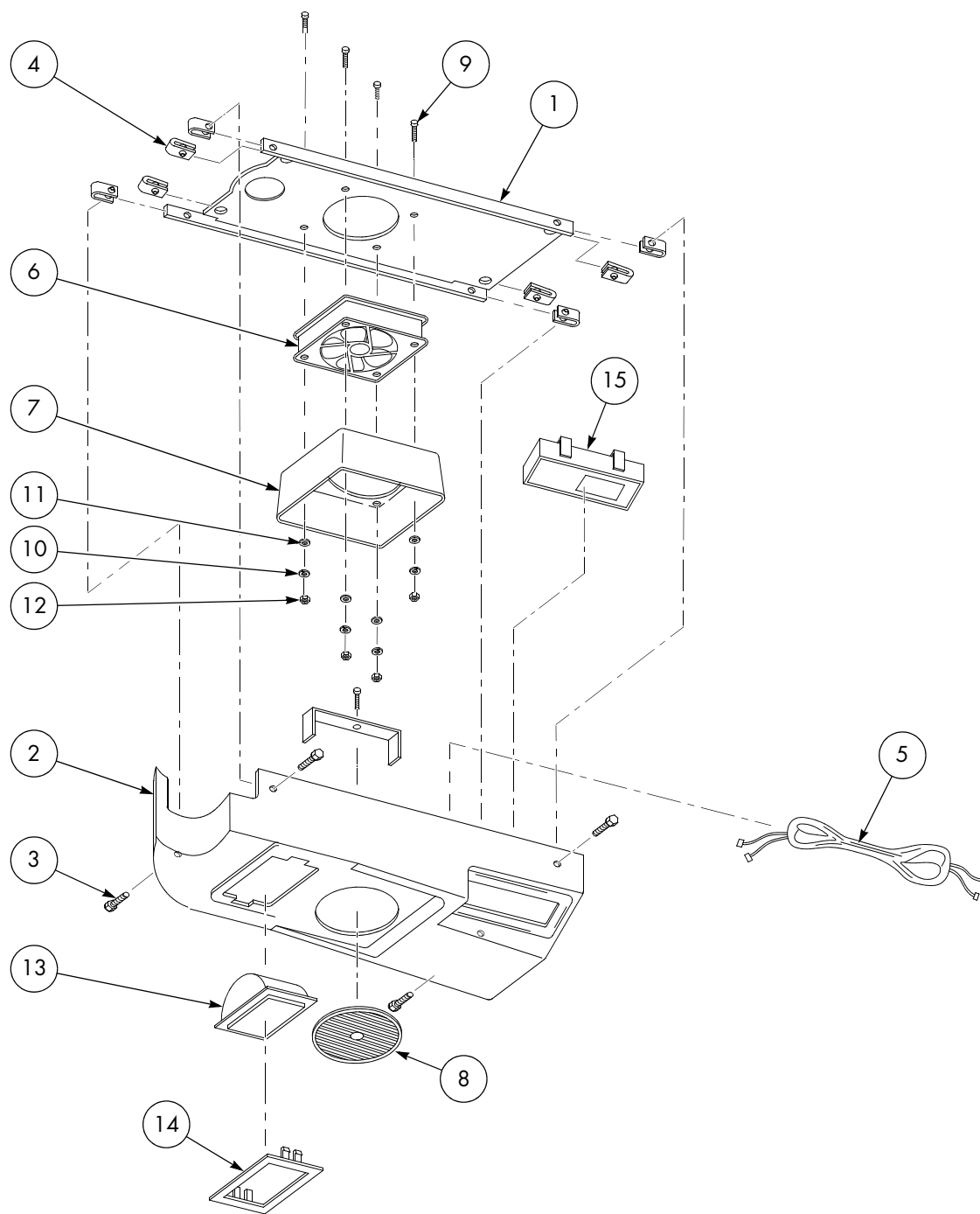


Figure 5-7: Light & Fan Console Assembly

306790-2_D

Light & Fan Console Assembly

FIGURE 5-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04129-71	Bracket, Hanger	
2	1	00590-40048-71	Console, Overhead Guard	
	1	00590-40049-71	Console, Overhead Guard w/Cutouts	
	1	00590-43735-71	Console, Overhead Guard, Round	
3	4	00590-03870-71	Screw	
4	4	00590-40012-71	Clip Nut	
5	1	00590-41937-71	Harness, Overhead Guard	
6	1	00590-05057-71	Fan, Muffin	A
	1	00590-05056-71	Fan, Muffin	B
7	1	00590-03877-71	Shroud, Fan	
8	2	00590-03880-71	Louver, w/Bezel	
	1	00590-43770-71	Louver, w/Round Bezel	
9	4	00590-05157-71	Screw	
10	4	00590-05152-71	Washer, Lock	
11	4	00590-03814-71	Washer	
12	4	00590-03794-71	Nut	
13	1	00590-03878-71	Light, 24V (includes:)	A
	1	00590-40592-71	Bulb, 24V	
	1	00590-03879-71	Light, 36V (includes:)	B
	1	00590-40593-71	Bulb, 36V	
14	1	00590-03881-71	Bezel, Light	
15	1	00590-40264-71	Indicator, Lift Height	
16	1	00590-40853-71	Harness, Height Indicator to Main Harness (Not Shown)	

A= 24V

B= 36V

List 5-7: Light & Fan Console Assembly

Auxiliary Switch Assembly

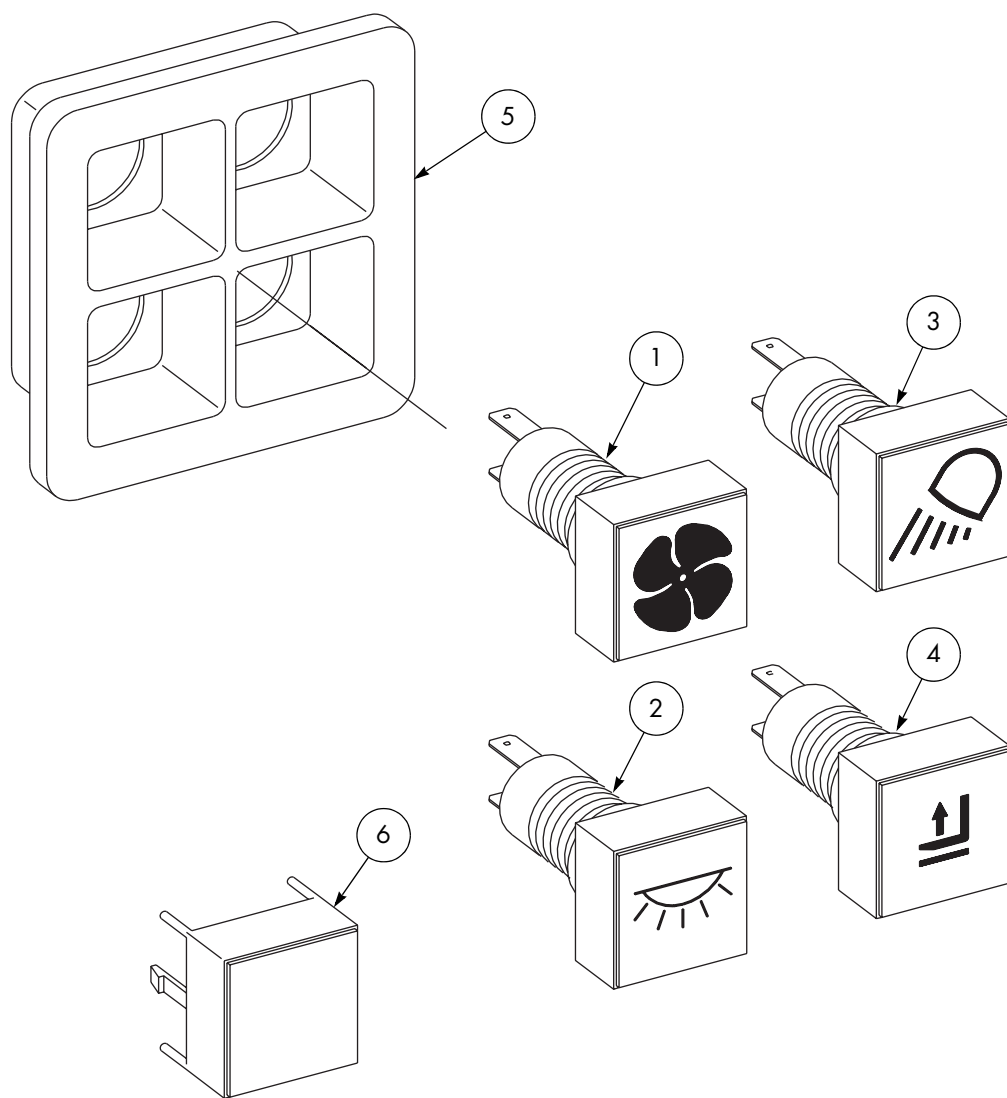


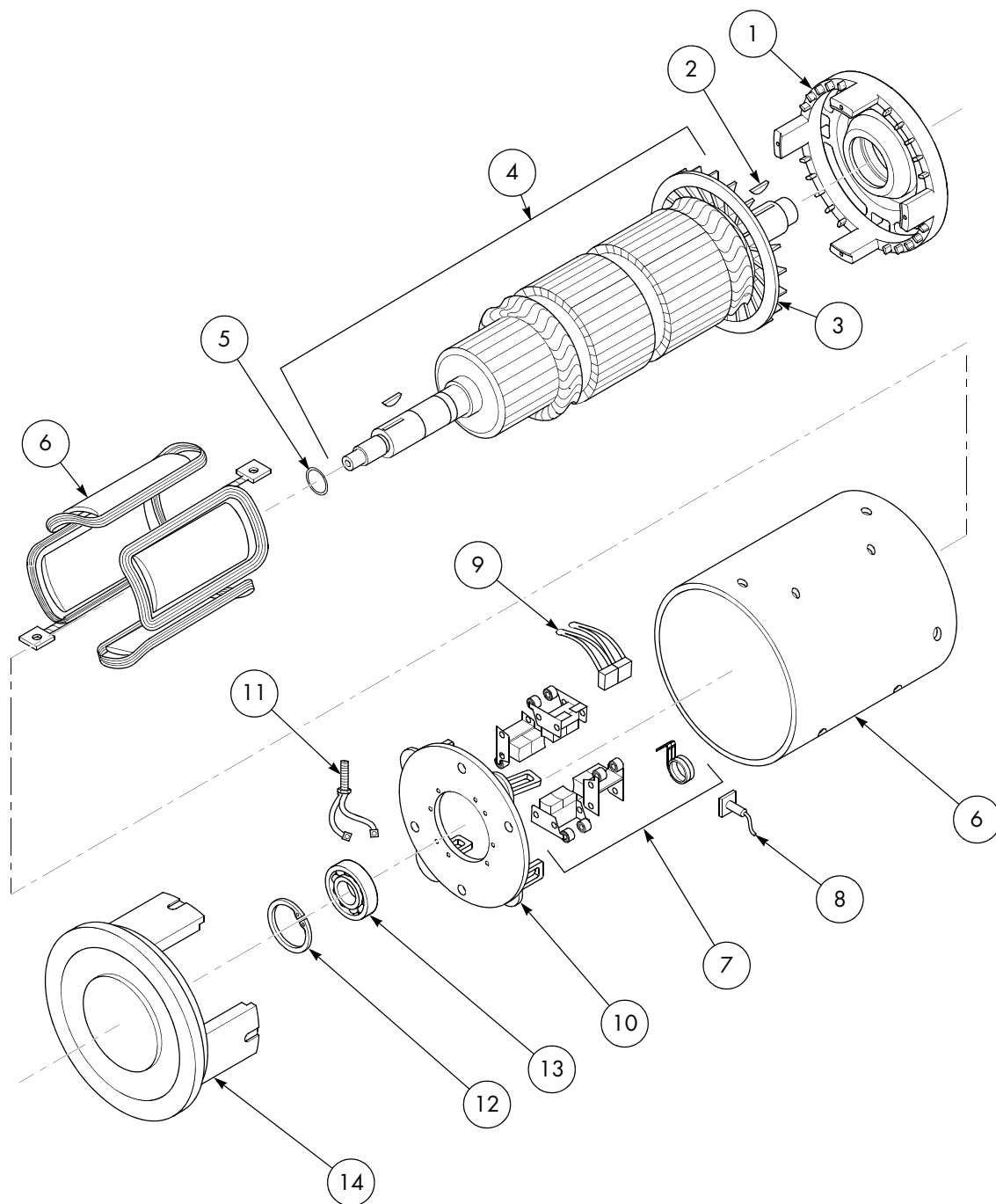
Figure 5-8: Auxiliary Switch Assembly

5511_001

FIGURE 5-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04226-71	Switch, Fan	
2	1	00590-04227-71	Switch, Operator Light	
3	1	00590-04228-71	Switch, Work Light	
4	1	00590-04229-71	Switch, Lift Limit w/Override	
5	1	00590-04317-71	Bezel, Switch	
6	1	00590-04316-71	Plug, Dummy Switch	

List 5-8: Auxiliary Switch Assembly

Drive Motor



1760-000

Figure 5-9: Drive Motor

FIGURE 5-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-04445-71	Motor, Drive 24/36V	A
		00590-04446-71	Motor, Drive 36V	B
		00590-40907-71	Motor, Drive 24V	C
1	1	00590-40616-71	Endhead Assembly, Drive	A
	1	00590-40619-71	Endhead Assembly, Drive	B
	1	00590-41803-71	Endhead Assembly, Drive	C
2	1	00590-40615-71	Key, Woodruff	
3	1	00590-04715-71	Fan	A
	1	00590-40617-71	Fan	B
	1	00590-46917-71	Fan	C
4	1	00590-41804-71	Armature & Fan Assembly	A, C
	1	00590-40620-71	Armature & Fan Assembly	B
5	1	00590-40613-71	Washer, Shim	
6	1	00590-40612-71	Field Coil Kit	A
	1	00590-40621-71	Field Coil Kit	B
	1	NSS	Frame & Field Coil Kit	C
7	8	00590-03896-71	Spring, Brush	A, C, R
	1	00590-04574-71	Spring Kit, Brush	B, R
8	1	00590-40415-71	Indicator Kit, Brush Wear	
9	2	00590-04567-71	Brush Kit	A, R
	1	00590-39830-71	Brush Kit	B, R
	2	00590-41807-71	Brush Kit	C, R
10	1	00590-39831-71	Holder Assembly, Brush	
11	1	00590-43751-71	Lead Assembly Kit	
12	1	00590-39833-71	Ring, Retaining	
13	2	00590-39837-71	Bearing	R
14	1	00590-41806-71	Endhead Assembly, Commutator	A, C
	1	00590-40622-71	Endhead Assembly, Commutator	B
15	1	00590-42178-71	Fan Kit (Optional) (Not Shown)	A
16	AR	00590-43068-71	Bolt, Drive End Head (Not Shown)	

A= 6BRU18/6BSU20 (36V Only)

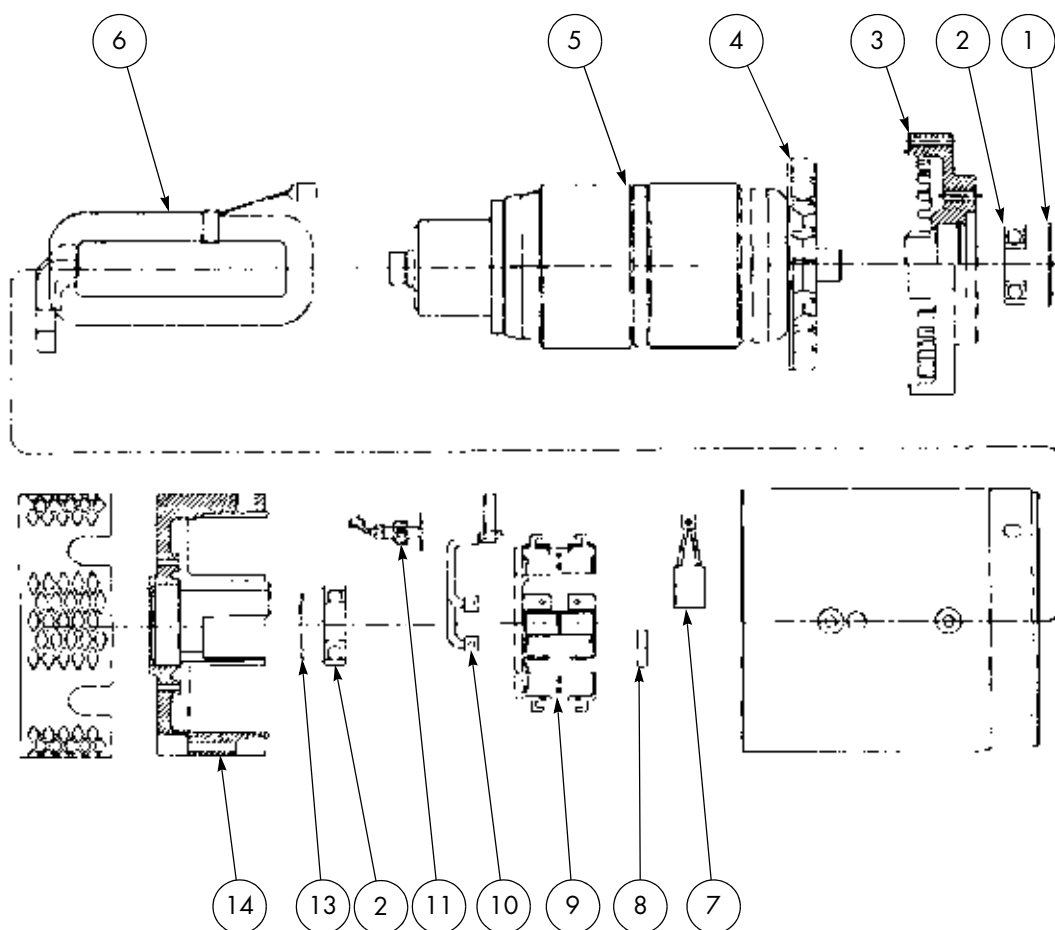
B= 6BRU23/6BDRU15/6BSU25

C= 6BRU18/6BSU20 (24V Only)

R= Recommended Spare

List 5-9: Drive Motor

Pump Motor - 6BRU23/6BDRU15/6BSU25



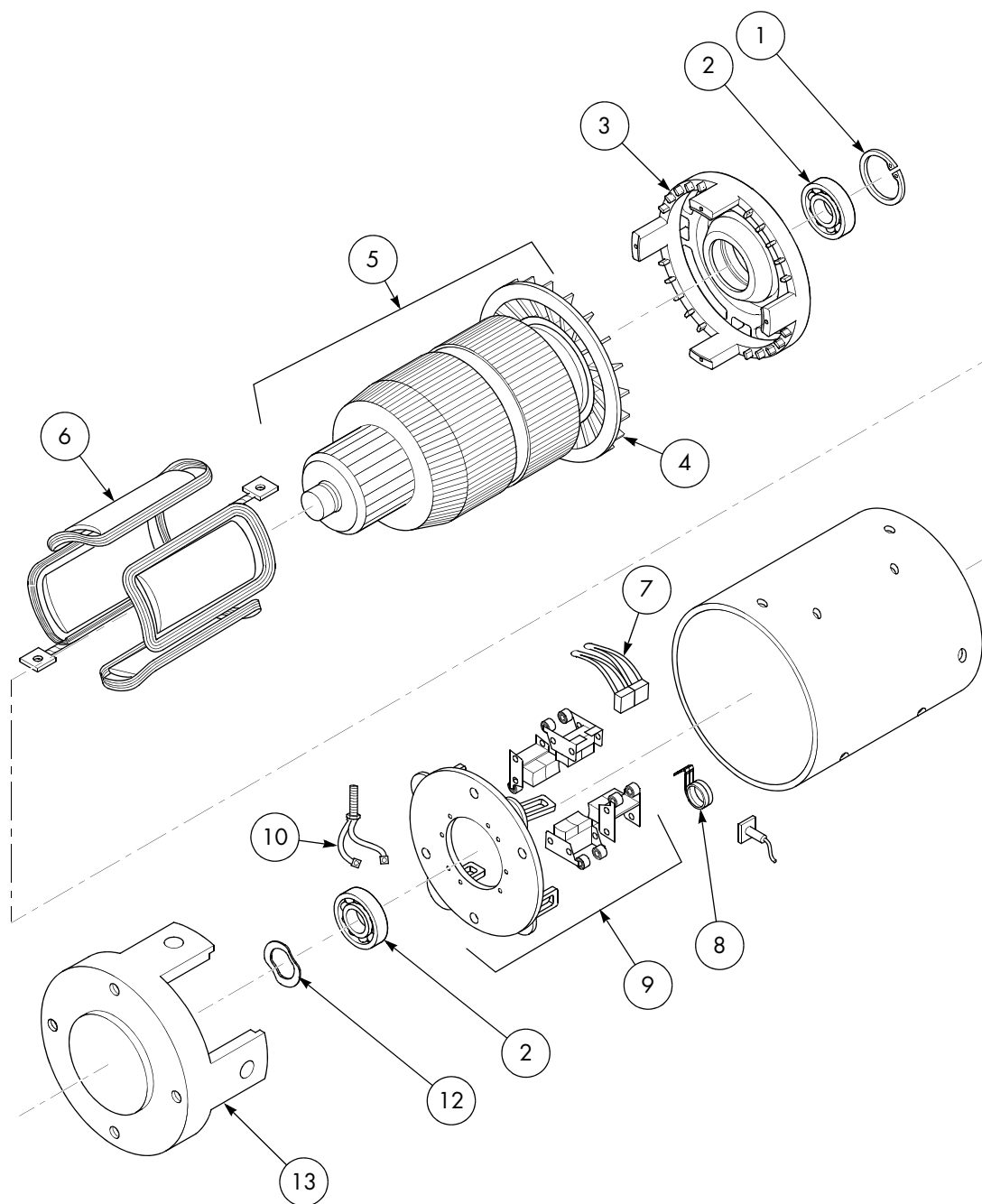
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Figure 5-10: Pump Motor - 6BRU23/6BDRU15/6BSU25

FIGURE 5-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-04255-71	Motor Assembly, Pump	
1	1	00590-39833-71	Ring, Retaining	
2	2	00590-43925-71	Bearing (DE & CE)	
3	1	00590-40639-71	Endhead Assembly, Drive	
4	1	00590-40617-71	Fan	
5	1	00590-40640-71	Armature & Fan Assembly	
6	1	00590-40641-71	Field Coil Kit	
7	1	00590-39830-71	Brush Kit	
8	2	00590-04574-71	Spring Kit, Brush	
9	1	00590-39831-71	Holder Assembly, Brush	
10	1	00590-40629-71	Lead Assembly Kit	
11	1	00590-40310-71	Indicator Kit, Brush Wear	
13	1	00590-39826-71	Washer, Wavy	
14	1	00590-40638-71	Endhead Assembly, Commutator	
15	1	00590-40305-71	Temperature Sensor (Not Shown)	

List 5-10: Pump Motor - 6BRU23/6BDRU15/6BSU25

Pump Motor - 6BRU18/6BSU20



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Figure 5-11: Pump Motor - 6BRU18/6BSU20

Pump Motor - 6BRU18/6BSU20

FIGURE 5-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-04031-71	Motor, Pump, 24V	A
		Ref.	Motor, Pump, 36V (Not Available)(See Figure 6-1.)	B
1	1	00590-04362-71	Ring, Retainer	A
	1	00590-04314-71	Ring, Retainer	B
	1	00590-45443-71	Seal & Retaining Package	
2	2	00590-04312-71	Bearing	
3	1	00590-45444-71	End Head Assembly, Drive	
4	1	00590-45445-71	Fan	
5	1	00590-45446-71	Armature	A
	1	00590-45447-71	Armature	B
6	1	00590-45448-71	Field Coil Assembly	A
	1	00590-45449-71	Field Coil Assembly	B
7	1	00590-04310-71	Brush Set	R
8	1	00590-04311-71	Spring Set	R
9	1	00590-45450-71	Brush Plate Assembly	
10	1	00590-40259-71	Lead Assembly	
11	1	00590-40052-71	Screw Package, Pole (Not Shown)	
12	1	00590-04313-71	Washer, Spring	
13	1	00590-45451-71	End Head Assembly, Commutator	
14	1	00590-45452-71	Cowl, Fan Package (Not Shown)	
	1	00590-45453-71	Headband Assembly	
	1	00590-45454-71	Band, Cover	
15	1	00590-40260-71	Terminal Stud Package (Not Shown)	

A= 24V

B= 36V

R= Recommended Spare

List 5-11: Pump Motor - 6BRU18/6BSU20

Control Handle Assembly

Control Handle Assembly

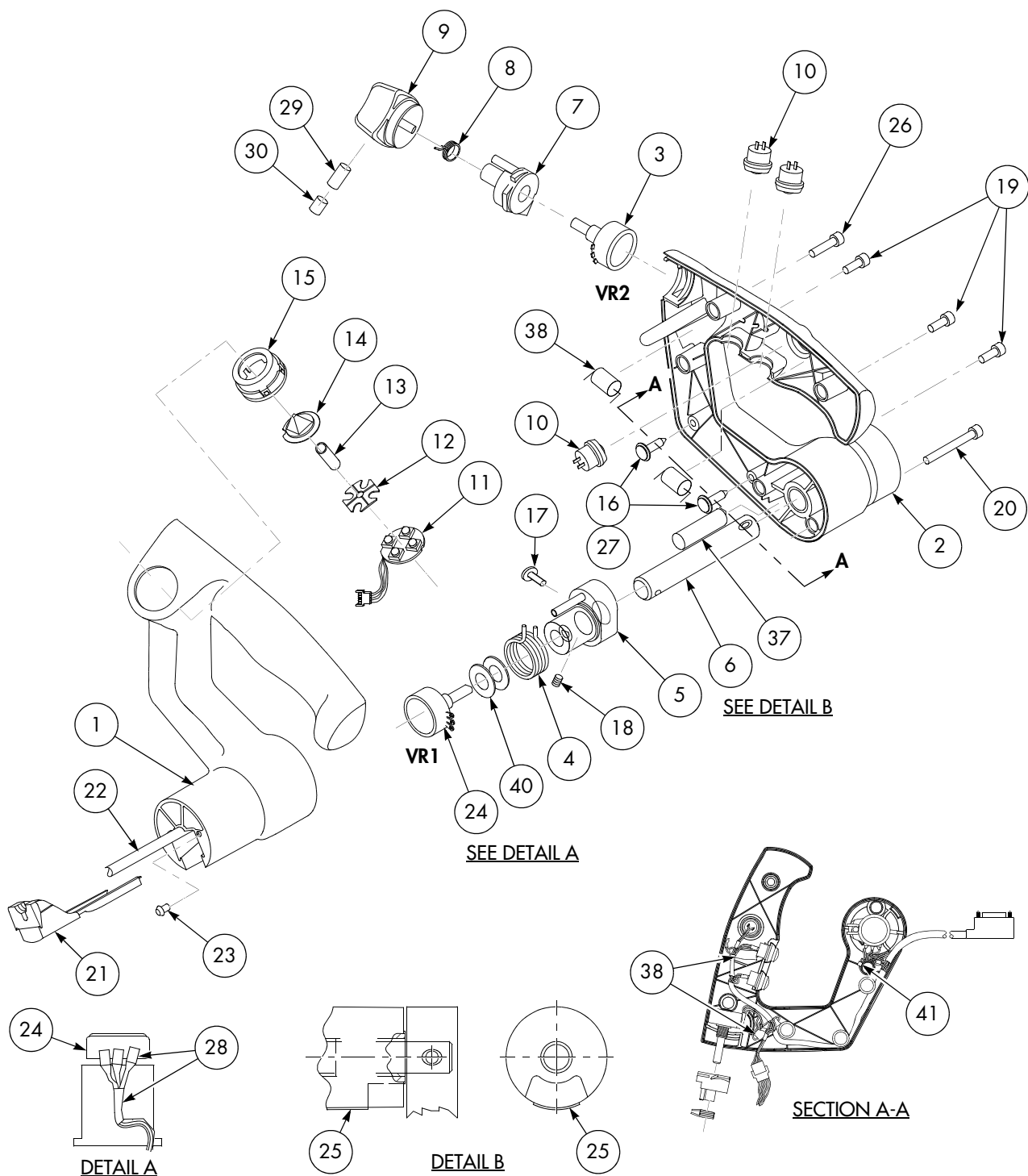


Figure 5-12: Control Handle Assembly

Control Handle Assembly

FIGURE 5-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-41759-71	Control Handle Assembly, Standard	
	1	00590-43006-71	Control Handle Assembly, Cold Storage	
1	1	00590-42238-71	Handle, Control, Left Hand	A
	1	00590-42243-71	Handle, Control, Left Hand	B
2	1	00590-49985-71	Handle, Control, Right Hand	
3	1	00590-43065-71	Potentiometer, Lift/Lower	A
	1	00590-43090-71	Potentiometer, Lift/Lower	B
4	1	00590-43965-71	Spring, Travel	
5	1	00590-41982-71	Positioner, Handle	
6	1	00590-41989-71	Shaft, Handle	
7	1	00590-43976-71	Bracket, Potentiometer	
8	1	00590-45841-71	Spring, Lift	
9	1	00590-42240-71	Knob	A
	1	00590-43975-71	Knob	B
10	3	00590-41977-71	Switch, Pushbutton	
11	1	00590-40338-71	Switch Card Assembly	
12	1	00590-41983-71	Button, Actuator	
13	1	00590-41975-71	Spring, Compression	
14	1	00590-42241-71	Button, 4-Way	A
	1	00590-43974-71	Button, 4-Way	B
15	1	00590-42242-71	Knob, Lift/Lower	
16	02	00590-41976-71	Stud	
17	1	00590-03471-71	Screw	
18	1	00590-41971-71	Screw	
19	3	00590-41968-71	Screw	
20	1	00590-41970-71	Screw	
21	1	00590-41984-71	Clamp, Cable	
22	1	00590-41981-71	Cable Assembly	A
	1	00590-43972-71	Cable Assembly	B
23	2	00590-41974-71	Screw	
24	1	00590-43606-71	Potentiometer, Travel	A
	1	00590-43809-71	Potentiometer, Travel	B
25	1	00590-41928-71	Label	
26	1	00590-41969-71	Screw	
27	2	00590-02401-71	Washer, Flat	
28	AR	00590-43929-71	Tubing, Heat Shrink	
29	2	00590-41973-71	Screw	
30	2	00590-41927-71	Screw	
37	1	00590-41991-71	Resistor, 10W	B
38	2	00590-41990-71	Resistor, 5W	B
40	2	00590-02705-71	Washer	
41	1	00590-00811-71	Strap, Tie	

A= Standard
B= Cold Storage

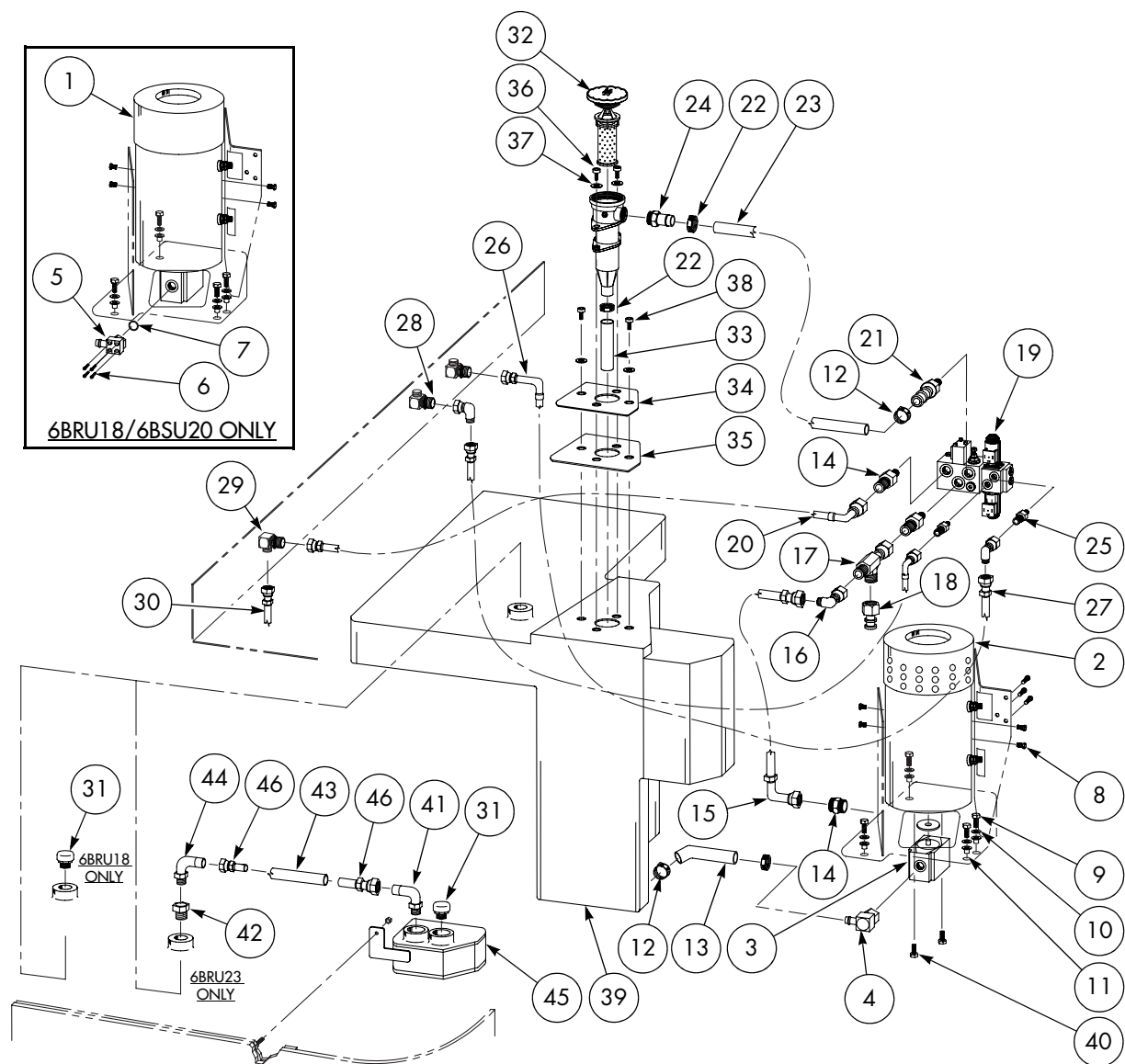
List 5-12: Control Handle Assembly

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Hydraulic Assembly



307732_1

Figure 6-1: Hydraulic Assembly

FIGURE 6-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04031-71	Motor Assembly (See Figure 5-11.)	A
	1	00590-04032-71	Lift Pump and Motor Assembly	B
2	1	Ref.	Lift Motor (See Figures 5-10 and 5-11.)	
3	1	Ref.	Lift Pump (See Figure 6-14.)	
4	1	00590-05116-71	Fitting, Beaded Elbow	C
5	1	00590-03717-71	Flange	A
	1	00590-03718-71	Flange	B
6	4	00590-03811-71	Screw	A
	4	00590-03796-71	Screw	B
7	1	00590-03823-71	O-Ring	A, R
	1	00590-03860-71	O-Ring	B, R
8	7	00590-03787-71	Screw	
9	4	00590-03797-71	Screw	
10	4	00590-03885-71	Washer	
11	4	00590-05127-71	Mount, Rubber	
12	3	00590-03758-71	Clamp, Hose	
13	1	00590-04137-71	Hose, Suction	
14	3	00590-42271-71	Adapter, Straight	
15	1	00590-04265-71	Hose, Assembly	
16	1	00590-04171-71	Adapter, 90°	
17	1	00590-04041-71	Fitting, Tee	
18	1	00590-05076-71	Fitting, Diagnostic	
19	1	00590-04026-71	Valve, Control (See Figure 6-2.)	
20	1	00590-04262-71	Hose, Assembly	
21	1	00590-04219-71	Adapter, Fitting	
22	2	00590-03757-71	Clamp (Worm Drive)	
23	1	00590-05163-71	Hose	
24	1	00590-04048-71	Adapter, Push On	
25	2	00590-04047-71	Adapter, Straight	
26	2	00590-04170-71	Adapter, 90°	
27	2	00590-04178-71	Hose Assembly	
28	2	00590-04044-71	Adapter, Bulkhead	
29	1	00590-04046-71	Fitting, Bulkhead 90°	
30	1	00590-04263-71	Hose Assembly	
31	1	00590-04209-71	Breather	
32	1	00590-46405-71	Filter Assembly (includes:)	R
	1	00590-46406-71	Element, Filter	R
33	1	00590-05162-71	Hose	
34	1	00590-04174-71	Plate, Filter	
35	1	00590-04175-71	Gasket, Filter	R
36	2	00590-40056-71	Screw	
37	2	00590-03804-71	Washer	

A= 6BRU18/6BSU20 (24V)

B= 6BRU18/6BSU20 (36V)

C= 6BRU23/6BDRU15/6BSU25

R= Recommended Spare

Models 6BRU18/6BRU23/6BDRU15/6BSU20/6BSU25 - Hydraulic Components

Hydraulic Assembly

FIGURE 6-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
38	2	00590-03802-71	Screw	
39	1	00590-03996-71	Tank	A, B
	1	00590-04168-71	Reservoir, Nylon	C
40	2	00590-03799-71	Screw	C
41	1	00590-05110-71	Adapter	C
42	1	00590-03676-71	Bushing, Pipe	C
43	1	00590-05160-71	Hose	C
44	1	00590-04447-71	Adapter 90°	C
45	1	00590-04380-71	Reservoir, Auxiliary	C
46	2	00590-03942-71	Beaded Hose End	C

A= 6BRU18/6BSU20 (24V)

B= 6BRU18/6BSU20 (36V)

C= 6BRU23/6BDRU15/6BSU25

R= Recommended Spare

List 6-1: Hydraulic Assembly (Sheet 2 of 2)

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Control Valve Assembly

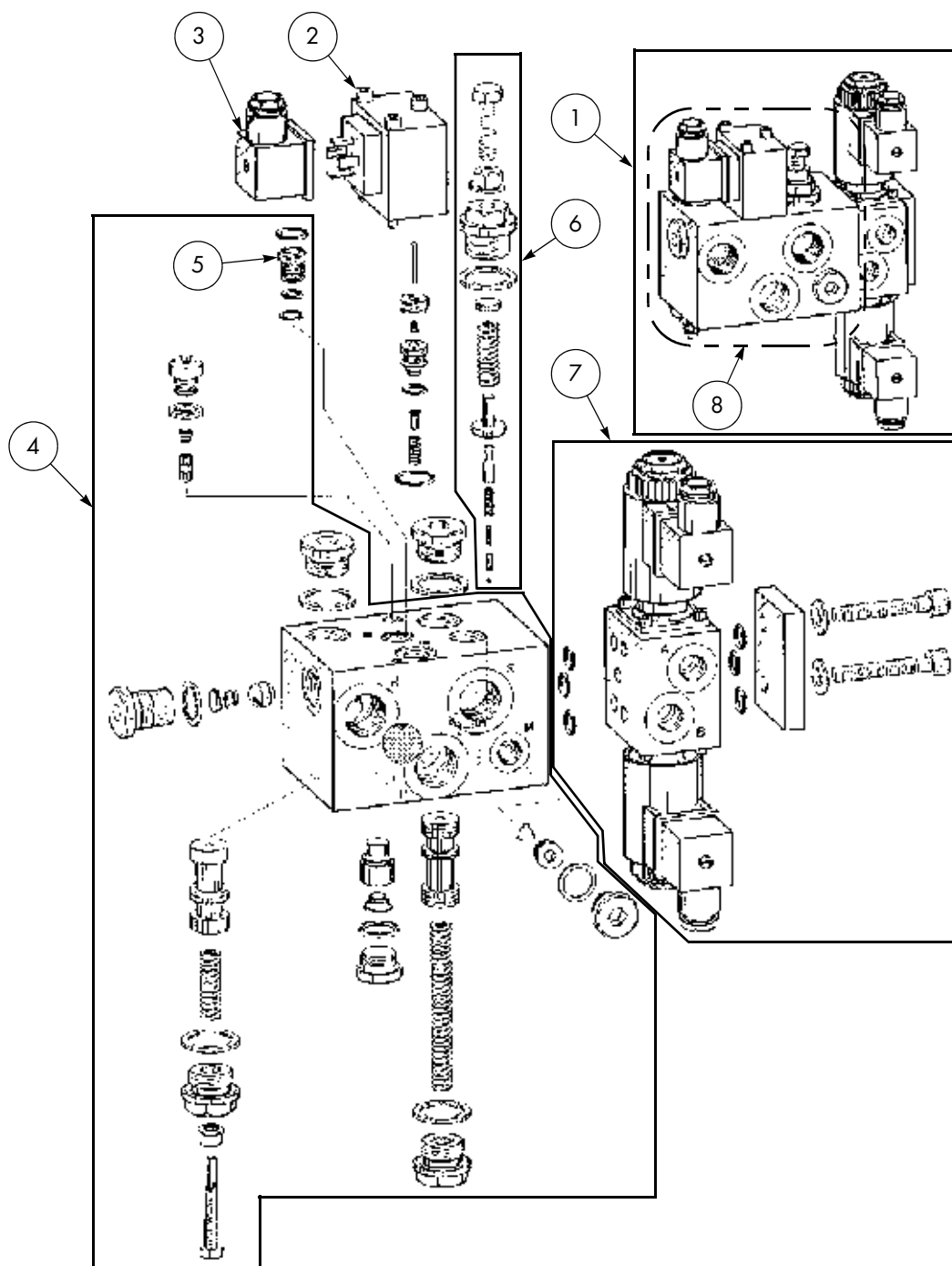


Figure 6-2: Control Valve Assembly

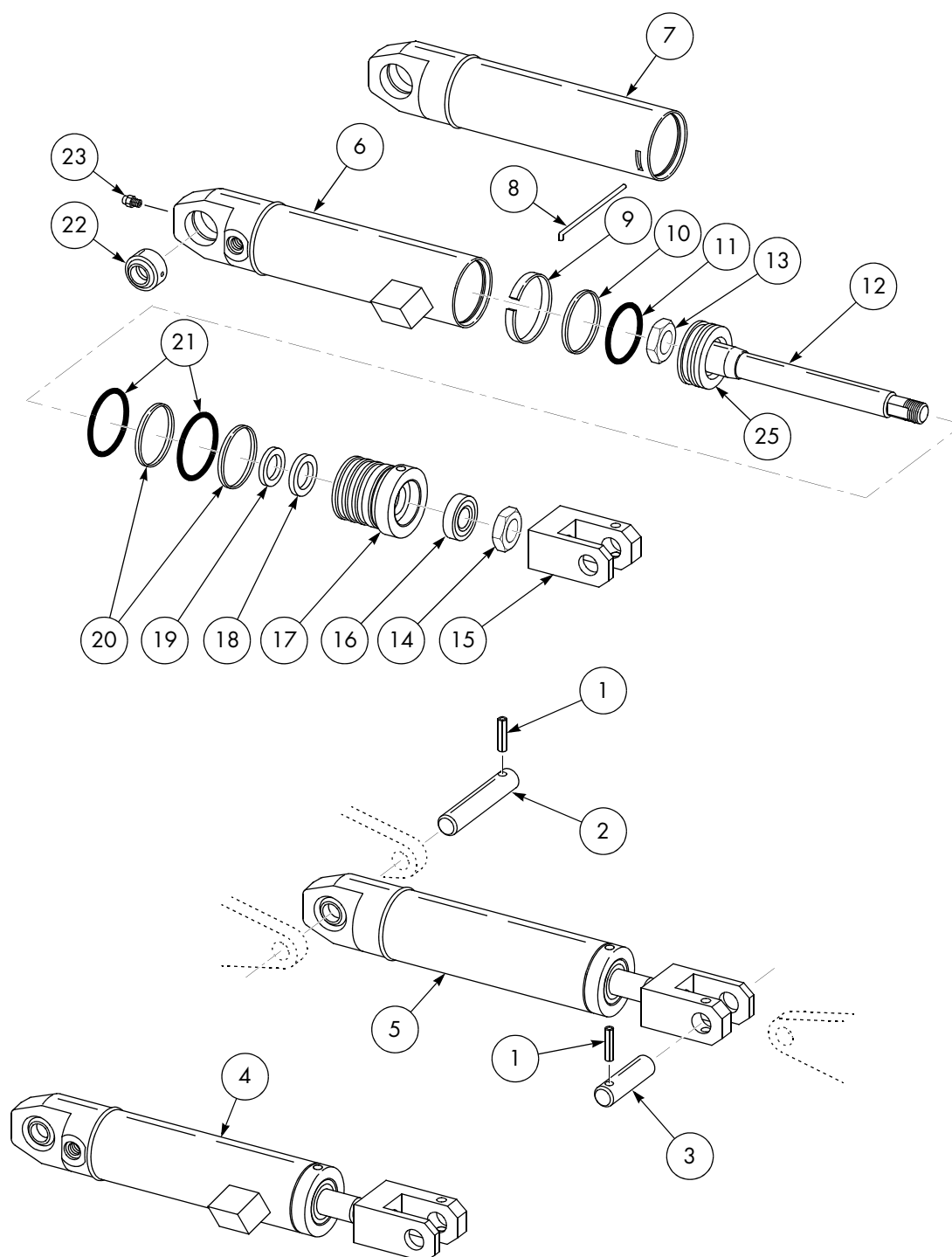
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FIGURE 6-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-04026-71	Valve, Control Assembly (includes:)	
	3	00590-03787-71	Screw	
2	1	00590-43833-71	Coil	
3	1	00590-39560-71	Plug	
4	1	00590-39561-71	Seal Kit	R
5	1	00590-39562-71	Pressure Relief Kit	R
6	1	00590-39563-71	DBV Kit	R
7	1	00590-39564-71	SWR21 Kit	R
8	1	00590-41769-71	Valve, Control (includes: items 2 thru 6)	
9	1	00590-43098-71	Valve, Relief (Not Shown)	

R= Recommended Spare

List 6-2: Control Valve Assembly

Reach Cylinder Assembly - 6BRU18



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Figure 6-3: Reach Cylinder Assembly - 6BRU18

Reach Cylinder Assembly - 6BRU18

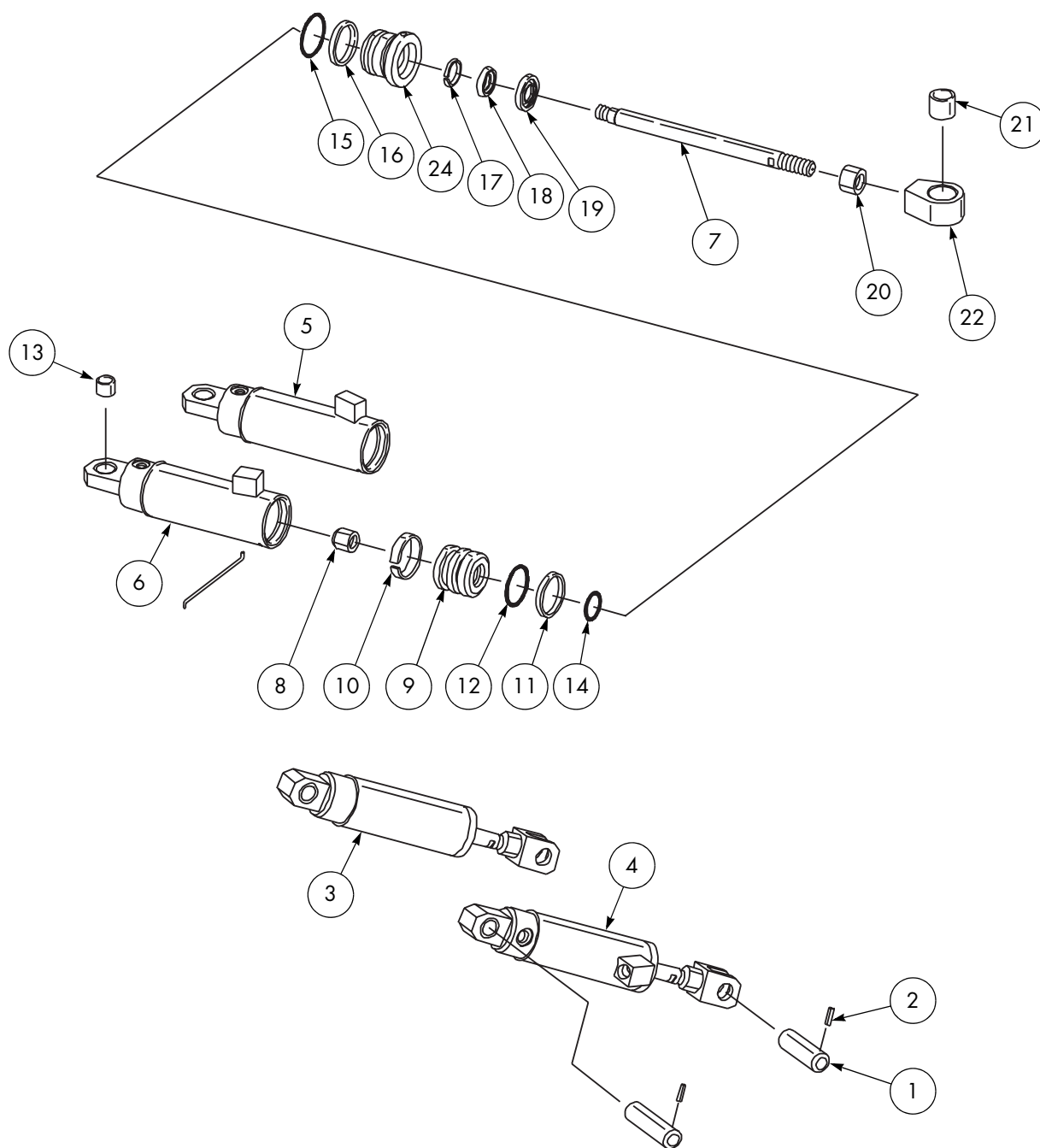
FIGURE 6-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-43945-71	Cylinder Assembly, Reach (6BRU18)	
1	4	00590-03791-71	Pin, Roll	
2	2	00590-03907-71	Pin, Clevis	
3	2	00590-03906-71	Pin, Clevis	
4	1	00590-40601-71	Cylinder Assembly, Reach, Right	
5	1	00590-40600-71	Cylinder Assembly, Reach, Left	
6	1	00590-40058-71	Housing, Cylinder, Right	
7	1	00590-40059-71	Housing, Cylinder, Left	
8	1	NSS	Retainer	A
9	1	NSS	Ring, Guide	A
10	1	NSS	Ring, Sealing	A
11	1	NSS	O-Ring	A
12	1	00590-41931-71	Rod, Cylinder	
13	1	00590-03930-71	Nut	
14	1	00590-41932-71	Nut	
15	1	00590-41798-71	Yoke, Cylinder (Production after Jan. 2000)	
	1	00590-03908-71	Yoke, Cylinder (Production before Jan. 2000)	
16	1	NSS	Wiper	A
17	1	00590-03899-71	Gland	
18	1	NSS	Seal, Rod	A
19	1	NSS	Ring, Guide	A
20	2	NSS	Ring, Backup	A
21	2	NSS	O-Ring	A
22	1	00590-40060-71	Bearing, Spherical	
23	1	00590-03673-71	Fitting, Grease	
24	1	00590-04389-71	Kit, Seal (Not Shown)	R
25	1	00590-41933-71	Piston	
26	1	00590-40585-71	Kit, Cylinder Upgrade (Not Shown) (includes: Items 4 & 5)	

A= Included in item 24

R= Recommended Spare

List 6-3: Reach Cylinder Assembly - 6BRU18

Reach Cylinder Assembly - 6BRU23



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Figure 6-4: Reach Cylinder Assembly - 6BRU23

Reach Cylinder Assembly - 6BRU23

FIGURE 6-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-43946-71	Cylinder Assembly, Reach (6BRU23)	
1	2	00590-03715-71	Pin	
2	2	00590-03661-71	Pin, Roll	
3	1	00590-40061-71	Cylinder Assembly, Reach, Right Hand	
4	1	00590-04392-71	Cylinder Assembly, Reach, Left Hand	
5	1	00590-40062-71	Tube, Cylinder, Right Hand	
6	1	00590-40063-71	Tube, Cylinder, Left Hand	
7	1	00590-04479-71	Rod, Cylinder	
8	1	00590-03765-71	Nut	
9	1	00590-04988-71	Piston	
10	1	NSS	Ring, Guide	A
11	1	NSS	Ring, Sealing	A
12	1	NSS	O-Ring	A
13	1	00590-03656-71	Bushing	R
14	1	NSS	O-Ring	A
15	1	NSS	O-Ring	A
16	1	NSS	Ring, Back-Up	A
17	1	NSS	Ring, Guide	A
18	1	NSS	Seal, Rod	A
19	1	NSS	Wiper, Cylinder Rod	A
20	1	00590-03680-71	Nut	
21	1	00590-05133-71	Bushing	
22	1	00590-04478-71	Yoke, Rod	
23	1	00590-04462-71	Kit Seal (Not Shown)	R
24	1	00590-04480-71	Bearing	

A= Included in Item 23

R= Recommended Spare

List 6-4: Reach Cylinder Assembly - 6BRU23

Reach Cylinder Assembly - 6BDRU15

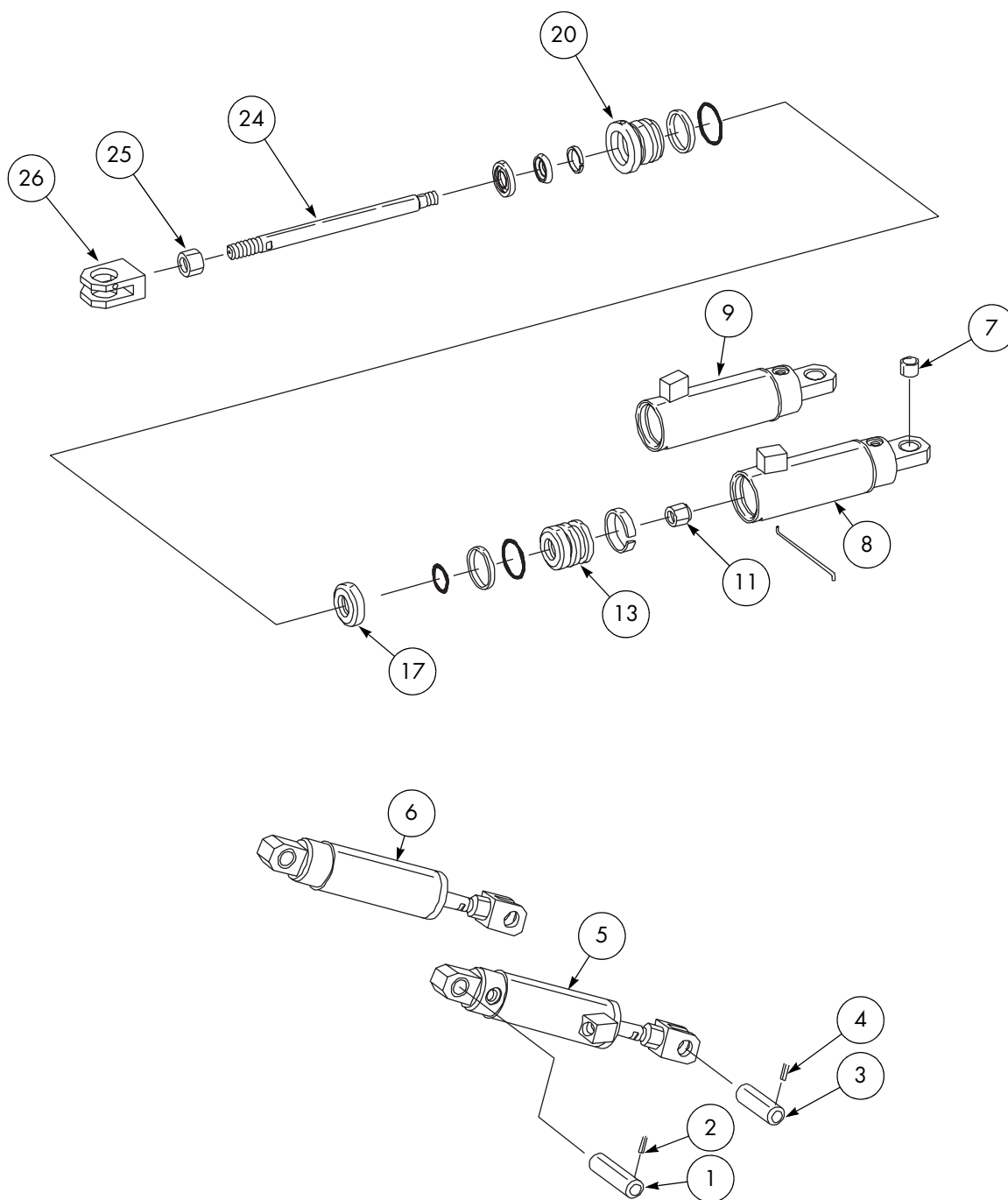


Figure 6-5: Reach Cylinder Assembly - 6BDRU15

7331_200

Reach Cylinder Assembly - 6BDRU15

FIGURE 6-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-05175-71	Cylinder Assembly, Reach (6BDRU15)	
1	1	00590-05018-71	Pin	
2	1	00590-03668-71	Pin, Roll	
3	1	00590-05017-71	Pin	
4	1	00590-03667-71	Pin, Roll	
5	1	00590-05029-71	Cylinder Assembly, Reach, Right Hand	A
	1	00590-05030-71	Cylinder Assembly, Reach, Right Hand	B
6	1	00590-05031-71	Cylinder Assembly, Reach, Left Hand	A
	1	00590-05032-71	Cylinder Assembly, Reach, Left Hand	B
7	1	00590-03657-71	Bushing	R
8	1	00590-04994-71	Tube, Cylinder, Left Hand	
9	1	00590-04993-71	Tube, Cylinder, Right Hand	
11	1	00590-03766-71	Nut	
13	1	00590-04990-71	Piston	
17	1	00590-05022-71	Spacer	B
20	1	00590-04989-71	Bearing	
24	1	00590-04991-71	Rod, Cylinder	
25	1	00590-05073-71	Nut	
26	1	00590-04992-71	Yoke, Rod	
27	1	00590-05014-71	Kit, Seal (Not Shown)	R

A= No Sideshift

B= Sideshift

C= Only Available in Item 27

R= Recommended Spare

List 6-5: Reach Cylinder Assembly - 6BDRU15

Tilt Cylinder Assembly - 6BRU18/6BSU20/6BSU25

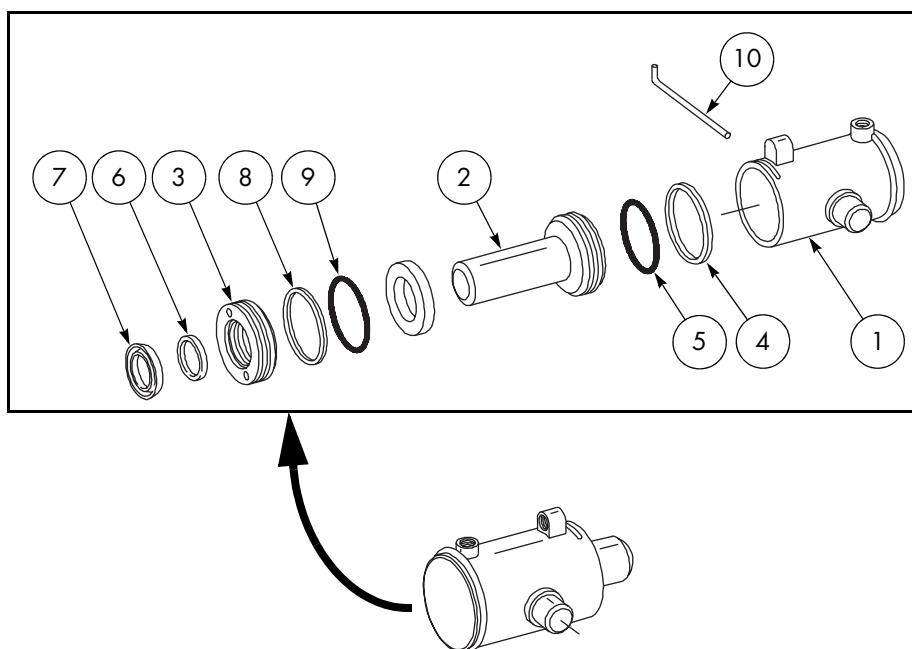


Figure 6-6: Tilt Cylinder Assembly - 6BRU18/6BSU20/6BSU25

6660_100

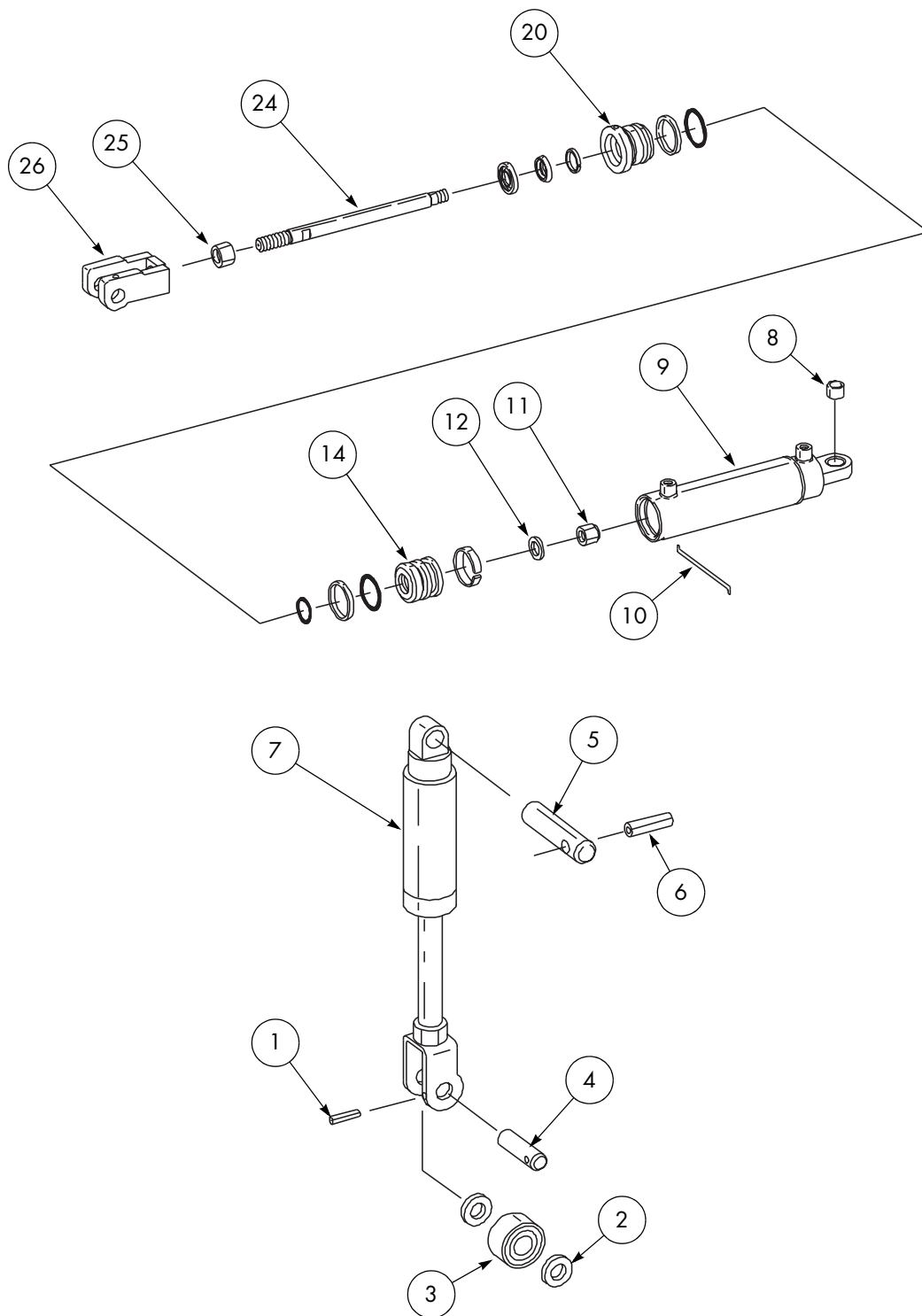
Tilt Cylinder Assembly - 6BRU18/6BSU20/6BSU25

FIGURE 6-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-40064-71	Cylinder Assembly, Tilt (6BRU18/6BSU20/6BSU25)	
1	1	00590-03904-71	Housing Weldment, Cylinder	
2	1	00590-03905-71	Rod Weldment, Cylinder	
3	1	00590-40065-71	Bearing, Cylinder	R
4	1	00590-03830-71	Ring	R
5	1	00590-03649-71	O-Ring	
6	1	00590-05066-71	Seal	
7	1	00590-03771-71	Wiper	
8	1	00590-03708-71	Ring, Backup	
9	1	00590-03646-71	O-Ring	
10	1	00590-04461-71	Retainer	
11	1	00590-40066-71	Kit, Seal (includes: Items 4 thru 10) (Not Shown)	R

R= Recommended Spare

List 6-6: Tilt Cylinder Assembly - 6BRU18/6BSU20/6BSU25

Tilt Cylinder Assembly - 6BDRU15



7322_000

Figure 6-7: Tilt Cylinder Assembly - 6BDRU15

Tilt Cylinder Assembly - 6BDRU15

FIGURE 6-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-05171-71	Tilt Cylinder (6BDRU15)	
1	2	00590-03665-71	Pin, Roll	
2	4	00590-03690-71	Washer	
3	2	00590-03829-71	Bearing	R
4	2	00590-04475-71	Pin	
5	2	00590-03714-71	Pin	
6	2	00590-03661-71	Pin, Roll	
7	2	00590-05026-71	Cylinder Assembly, Tilt	
8	1	00590-03656-71	Bearing	
9	1	00590-05027-71	Tube, Cylinder	
10	1	00590-04460-71	Retainer	
11	1	00590-03765-71	Nut	
12	1	00590-03655-71	Washer, Flat	
14	1	00590-05012-71	Piston	
20	1	00590-04982-71	Bearing	R
24	1	00590-05028-71	Rod, Cylinder	
25	1	00590-03680-71	Nut	
26	1	00590-04482-71	Clevis	
27	1	00590-04499-71	Kit, Seal (Not Shown)	R

R= Recommended Spare

List 6-7: Tilt Cylinder Assembly - 6BDRU15

Tilt Cylinder Assembly - 6BRU23

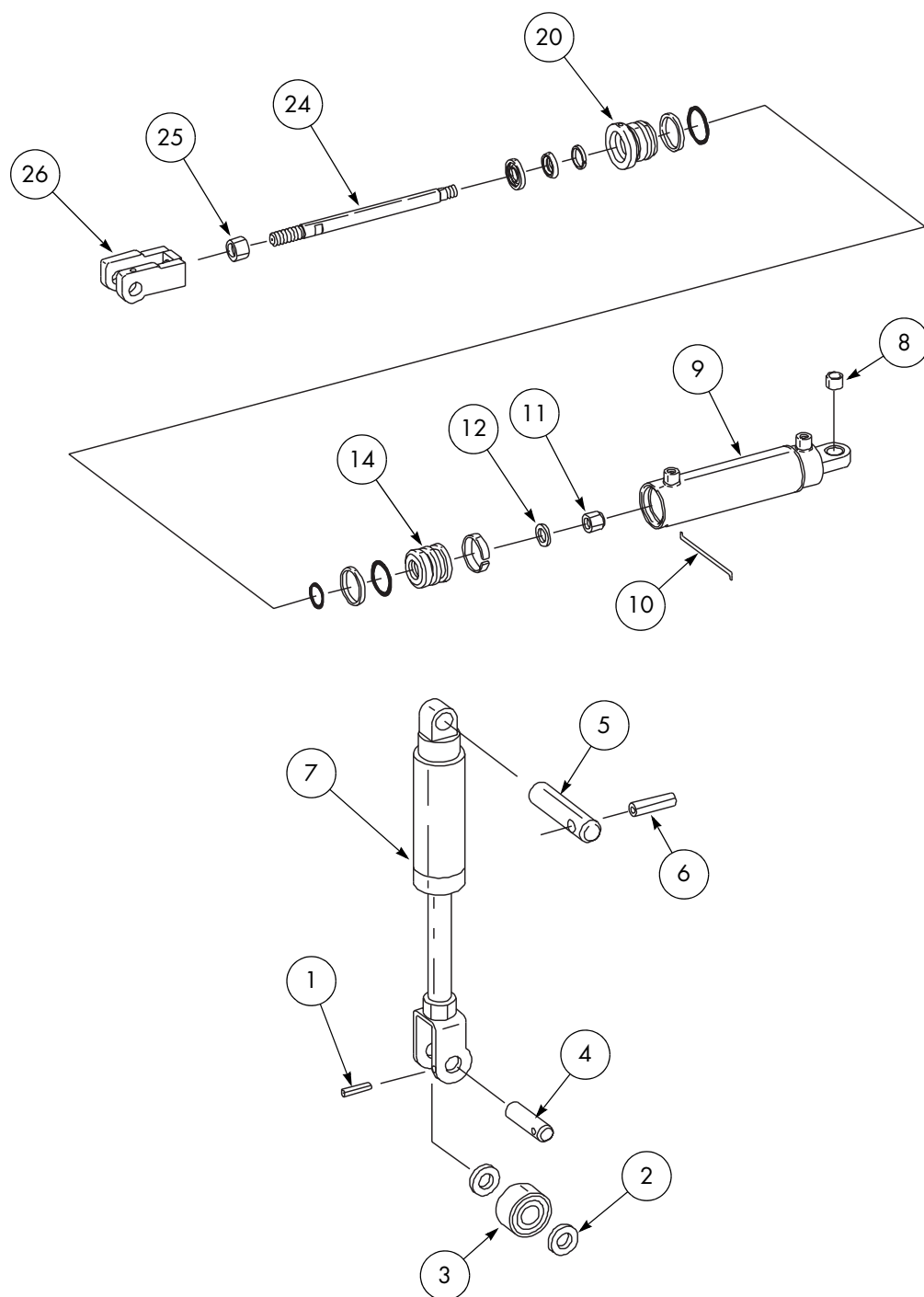


Figure 6-8: Tilt Cylinder Assembly - 6BRU23

7323_000

Tilt Cylinder Assembly - 6BRU23

FIGURE 6-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-04422-71	Cylinder Assembly, Tilt (6BRU23)	
1	2	00590-03665-71	Pin, Roll	
2	4	00590-03690-71	Washer	
3	2	00590-03829-71	Bearing	R
4	2	00590-04475-71	Pin	
5	2	00590-03716-71	Pin	
6	2	00590-03661-71	Pin, Roll	
7	1	00590-05024-71	Cylinder Assembly, Tilt, Right Hand	
	1	00590-05033-71	Cylinder Assembly, Tilt, Left Hand	
8	1	00590-03656-71	Bushing	R
9	1	00590-05023-71	Tube, Cylinder, Right Hand	
	1	00590-05011-71	Tube, Cylinder, Left Hand	
10	1	00590-04460-71	Retainer	
11	1	00590-03765-71	Nut	
12	1	00590-03655-71	Washer, Flat	
14	1	00590-05012-71	Piston	
20	1	00590-04982-71	Bearing	
24	1	00590-04981-71	Rod, Cylinder	
25	1	00590-03680-71	Nut	
26	1	00590-04482-71	Clevis	
27	1	00590-04499-71	Kit, Seal (Not Shown)	R
28	1	00590-40143-71	Fitting, Adapter, Top (Not Shown)	

R= Recommended Spare

List 6-8: Tilt Cylinder Assembly - 6BRU23

Staging Cylinder Assembly - 6BRU23/6BDRU15/6BSU25 3 Stage

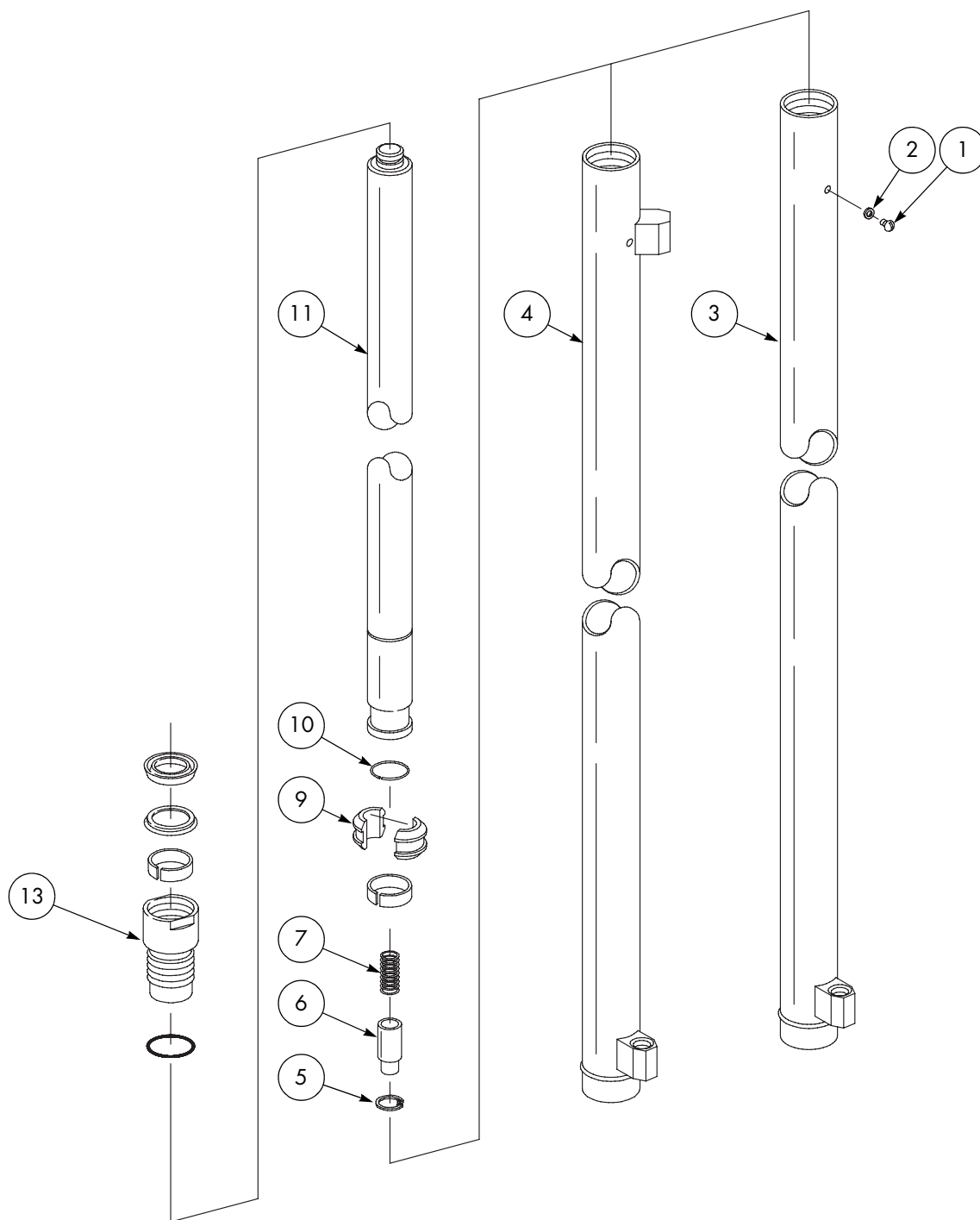


Figure 6-9: Staging Cylinder Assembly - 6BRU23/6BDRU15/6BSU25 3 Stage

Staging Cylinder Assembly - 6BRU23/6BDRU15/6BSU25 3 Stage

FIGURE 6-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-04092-71	Cylinder Assembly, 1 Port (95/210 Mast)	
	1	00590-04094-71	Cylinder Assembly, 1 Port (107/240 Mast)	
	1	00590-04096-71	Cylinder Assembly, 1 Port (114/258 Mast)	
	1	00590-04098-71	Cylinder Assembly, 1 Port (119/270 Mast)	
	1	00590-05230-71	Cylinder Assembly, 1 Port (131/300 Mast)	
	1	00590-05232-71	Cylinder Assembly, 1 Port (143/330 Mast)	
	1	00590-05234-71	Cylinder Assembly, 1 Port (155/360 Mast)	
	1	00590-05236-71	Cylinder Assembly, 1 Port (167/390 Mast)	
	1	00590-05238-71	Cylinder Assembly, 1 Port (172/402 Mast)	
	1	00590-04091-71	Cylinder Assembly, 2 Port (95/210 Mast)	
	1	00590-04093-71	Cylinder Assembly, 2 Port (107/240 Mast)	
	1	00590-04095-71	Cylinder Assembly, 2 Port (114/258 Mast)	
	1	00590-04097-71	Cylinder Assembly, 2 Port (119/270 Mast)	
	1	00590-04099-71	Cylinder Assembly, 2 Port (131/300 Mast)	
	1	00590-05231-71	Cylinder Assembly, 2 Port (143/330 Mast)	
	1	00590-05233-71	Cylinder Assembly, 2 Port (155/360 Mast)	
	1	00590-05235-71	Cylinder Assembly, 2 Port (167/390 Mast)	
	1	00590-05237-71	Cylinder Assembly, 2 Port (172/402 Mast)	
1	1	00590-05074-71	Screw	
2	1	00590-03700-71	Washer, Sealing	R
3	1	00590-40067-71	Housing, Cylinder, 1 Port (95/210 Mast)	
	1	00590-40068-71	Housing, Cylinder, 1 Port (107/240 Mast)	
	1	00590-40069-71	Housing, Cylinder, 1 Port (114/258 Mast)	
	1	00590-40070-71	Housing, Cylinder, 1 Port (119/270 Mast)	
	1	00590-40071-71	Housing, Cylinder, 1 Port (131/300 Mast)	
	1	00590-40072-71	Housing, Cylinder, 1 Port (143/330 Mast)	
	1	00590-40073-71	Housing, Cylinder, 1 Port (155/360 Mast)	
	1	00590-40074-71	Housing, Cylinder, 1 Port (167/390 Mast)	
	1	00590-40075-71	Housing, Cylinder, 1 Port (172/402 Mast)	
4	1	00590-04101-71	Housing, Cylinder, 2 Port (95/210 Mast)	
	1	00590-40076-71	Housing, Cylinder, 2 Port (107/240 Mast)	
	1	00590-40077-71	Housing, Cylinder, 2 Port (114/258 Mast)	
	1	00590-40078-71	Housing, Cylinder, 2 Port (119/270 Mast)	
	1	00590-40079-71	Housing, Cylinder, 2 Port (131/300 Mast)	
	1	00590-40080-71	Housing, Cylinder, 2 Port (143/330 Mast)	
	1	00590-40081-71	Housing, Cylinder, 2 Port (155/360 Mast)	
	1	00590-40082-71	Housing, Cylinder, 2 Port (167/390 Mast)	
	1	00590-40083-71	Housing, Cylinder, 2 Port (172/402 Mast)	
5	1	00590-03683-71	Ring, Snap	R
6	1	00590-03959-71	Plunger	
7	1	00590-03875-71	Spring	
9	1	00590-04112-71	Piston	
10	1	00590-03835-71	Ring, Stop	
11	1	00590-04103-71	Rod (95/210 Mast)	

R= Recommended Spare

List 6-9: Staging Cylinder Assembly - 6BRU23/6BDRU15/6BSU25 3 Stage (Sheet 1 of 2)

Models 6BRU18/6BRU23/6BDRU15/6BSU20/6BSU25 - Hydraulic Components

Staging Cylinder Assembly - 6BRU23/6BDRU15/6BSU25 3 Stage

FIGURE 6-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-04104-71	Rod (107/240 Mast)	
	1	00590-04105-71	Rod (114/258 Mast)	
	1	00590-04106-71	Rod (119/270 Mast)	
	1	00590-04107-71	Rod (131/300 Mast)	
	1	00590-04108-71	Rod (143/330 Mast)	
	1	00590-04109-71	Rod (155/360 Mast)	
	1	00590-04110-71	Rod (167/390 Mast)	
	1	00590-04111-71	Rod (172/402 Mast)	
13	1	00590-04113-71	Bearing	R
17	1	00590-40084-71	Seal Kit (Not Shown)	R

R= Recommended Spare

List 6-9: Staging Cylinder Assembly - 6BRU23/6BDRU15/6BSU25 3 Stage (Sheet 2 of 2)

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Staging Cylinder Assembly - 6BRU18/6BSU20 3 Stage

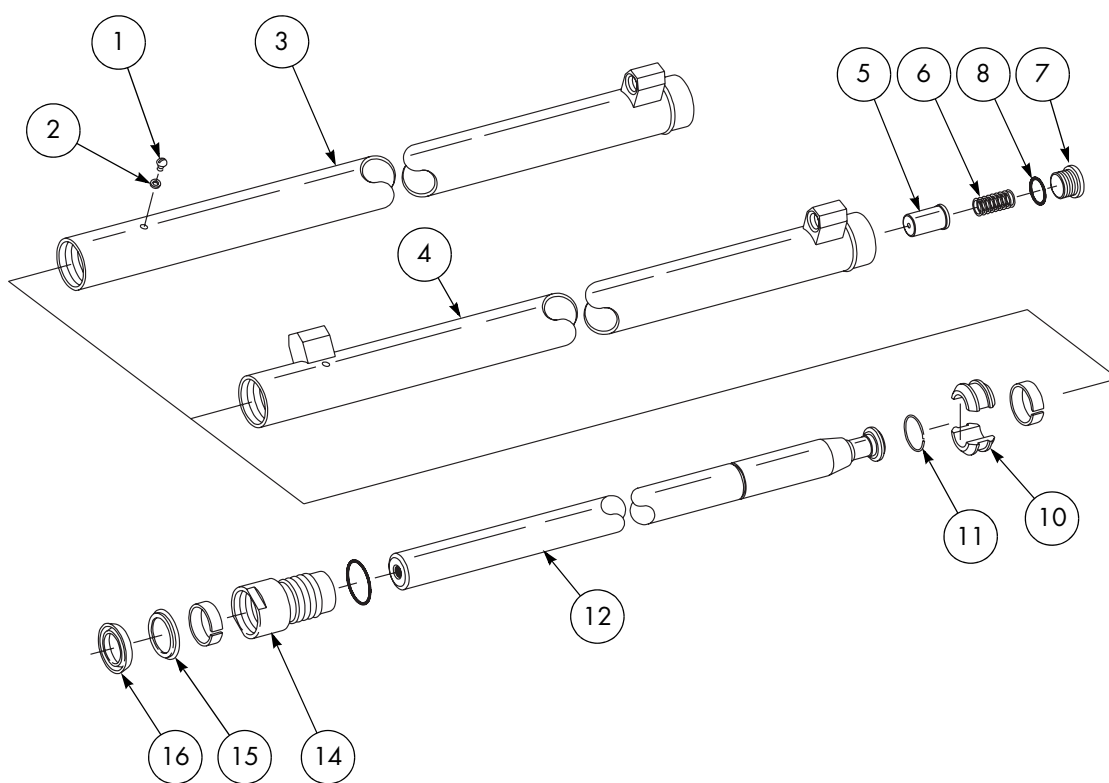


Figure 6-10: Staging Cylinder Assembly - 6BRU18/6BSU20 3 Stage

Staging Cylinder Assembly - 6BRU18/6BSU20 3 Stage

FIGURE 6-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-39555-71	Cylinder Assembly, 1 Port (89/192 Mast)	
		00590-39543-71	Cylinder Assembly, 1 Port (95/210 Mast)	
		00590-39544-71	Cylinder Assembly, 1 Port (107/140 Mast)	
		00590-39545-71	Cylinder Assembly, 1 Port (119/270 Mast)	
		00590-03943-71	Cylinder Assembly, 2 Port (89/192 Mast)	
		00590-05239-71	Cylinder Assembly, 2 Port (95/210 Mast)	
		00590-05240-71	Cylinder Assembly, 2 Port (107/140 Mast)	
		00590-05241-71	Cylinder Assembly, 2 Port (119/270 Mast)	
1	1	00590-05061-71	Screw	
2	1	00590-03700-71	Washer, Sealing	
3	1	00590-40085-71	Housing Weldment, 1 Port (89/192 Mast)	
	1	00590-40086-71	Housing Weldment, 1 Port (95/210 Mast)	
	1	00590-40087-71	Housing Weldment, 1 Port (107/140 Mast)	
	1	00590-40088-71	Housing Weldment, 1 Port (119/270 Mast)	
4	1	00590-40089-71	Housing Weldment, 2 Port (89/192 Mast)	
	1	00590-40090-71	Housing Weldment, 2 Port (95/210 Mast)	
	1	00590-40091-71	Housing Weldment, 2 Port (107/140 Mast)	
	1	00590-40092-71	Housing Weldment, 2 Port (119/270 Mast)	
5	1	00590-03882-71	Plunger Assembly	
6	1	00590-03875-71	Spring	
7	1	00590-05052-71	Plug	
8	2	00590-40093-71	O-Ring	
10	2	00590-03866-71	Piston	
11	1	00590-03859-71	Ring, Retainer	
12	1	00590-39551-71	Rod, Staging Cylinder, 89/192	
	1	00590-39552-71	Rod, Staging Cylinder, 95/210	
	1	00590-39553-71	Rod, Staging Cylinder, 107/240	
	1	00590-03957-71	Rod, Staging Cylinder, 119/270	
14	1	00590-47092-71	Bearing	
15	1	NSS	Seal, Rod	A
16	1	NSS	Wiper	A
17	1	00590-04381-71	Kit, Seal (Not Shown)	R

A= Included in Item 17

R= Recommended Spare

List 6-10: Staging Cylinder Assembly - 6BRU18/6BSU20 3 Stage

Cylinder Assembly, Free Lift - 6BRU23/6BDRU15/6BSU25 3 Stage

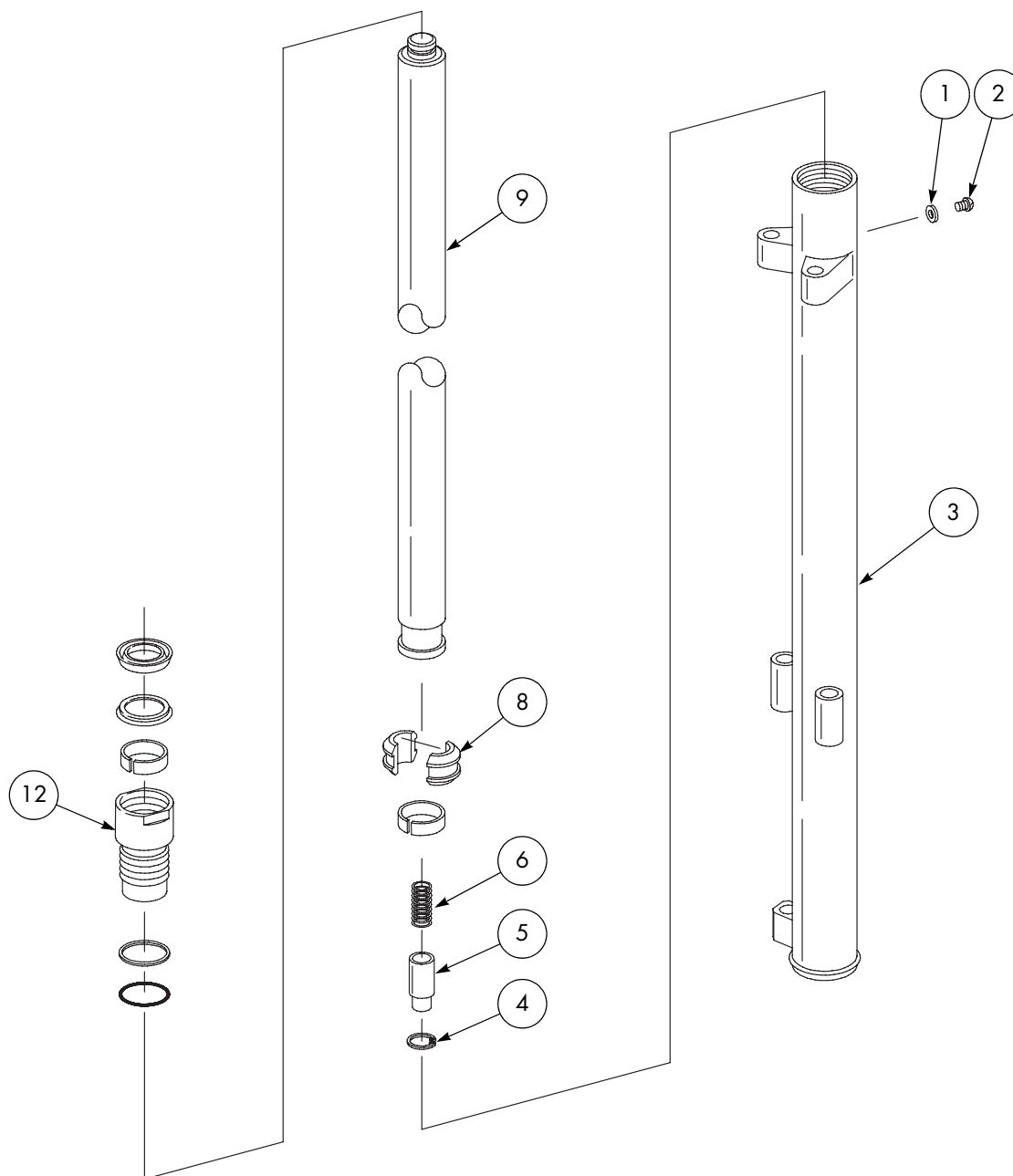


Figure 6-11: Cylinder Assembly, Free Lift - 6BRU23/6BDRU15/6BSU25 3 Stage

Cylinder Assembly, Free Lift - 6BRU23/6BDRU15/6BSU25 3 Stage

FIGURE 6-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-04116-71	Cylinder Assembly (95/210 Mast)	
	1	00590-04117-71	Cylinder Assembly (107/240 Mast)	
	1	00590-04118-71	Cylinder Assembly (114/258 Mast)	
	1	00590-04119-71	Cylinder Assembly (119/270 Mast)	
	1	00590-04120-71	Cylinder Assembly (131/300 Mast)	
	1	00590-04121-71	Cylinder Assembly (143/330 Mast)	
	1	00590-04122-71	Cylinder Assembly (155/360 Mast)	
	1	00590-04123-71	Cylinder Assembly (167/390 Mast)	
	1	00590-03910-71	Cylinder Assembly (172/402 Mast)	
1	1	00590-03700-71	Washer, Sealing	R
2	1	00590-05061-71	Screw	
3	1	00590-40094-71	Cylinder Housing (95/210 Mast)	
	1	00590-40095-71	Cylinder Housing (107/240 Mast)	
	1	00590-40096-71	Cylinder Housing (114/258 Mast)	
	1	00590-40097-71	Cylinder Housing (119/270 Mast)	
	1	00590-40098-71	Cylinder Housing (131/300 Mast)	
	1	00590-40099-71	Cylinder Housing (143/330 Mast)	
	1	00590-40100-71	Cylinder Housing (155/360 Mast)	
	1	00590-40101-71	Cylinder Housing (167/390 Mast)	
	1	00590-40102-71	Cylinder Housing (172/402 Mast)	
4	1	00590-03683-71	Ring, Snap	R
5	1	00590-03959-71	Plunger Assembly	
6	1	00590-03875-71	Spring	R
8	1	00590-04114-71	Piston	
9	1	00590-04081-71	Rod, Piston (95/210 Mast)	
	1	00590-04082-71	Rod, Piston (107/240 Mast)	
	1	00590-04083-71	Rod, Piston (114/258 Mast)	
	1	00590-04084-71	Rod, Piston (119/270 Mast)	
	1	00590-04085-71	Rod, Piston (131/300 Mast)	
	1	00590-04086-71	Rod, Piston (143/330 Mast)	
	1	00590-04087-71	Rod, Piston (155/360 Mast)	
	1	00590-04088-71	Rod, Piston (167/390 Mast)	
	1	00590-04089-71	Rod, Piston (172/402 Mast)	
12	1	00590-04115-71	Bearing	
16	1	00590-40103-71	Seal Kit (Not Shown)	R

R= Recommended Spare

List 6-11: Cylinder Assembly, Free Lift - 6BRU23/6BDRU15/6BSU25 3 Stage

Cylinder Assembly, Free Lift - 6BRU18/6BSU20 3 Stage

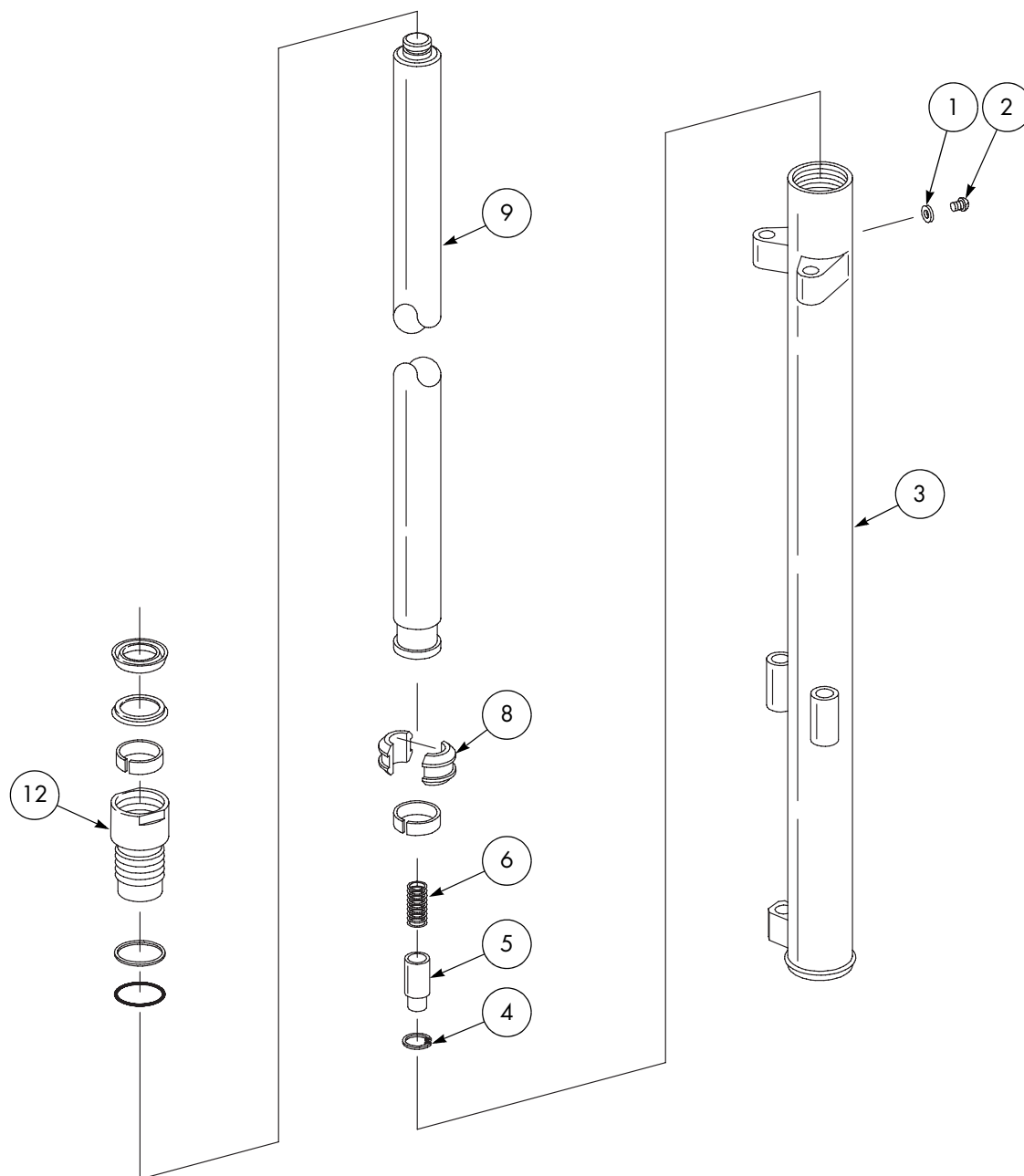


Figure 6-12: Cylinder Assembly, Free Lift - 6BRU18/6BSU20 3 Stage

Cylinder Assembly, Free Lift - 6BRU18/6BSU20 3 Stage

FIGURE 6-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-39554-71	Cylinder Assembly (89/192 Mast)	
	1	00590-39546-71	Cylinder Assembly (95/210 Mast)	
	1	00590-39547-71	Cylinder Assembly (107/240 Mast)	
	1	00590-39497-71	Cylinder Assembly (119/270 Mast)	
1	1	00590-03700-71	Washer, Sealing	
2	1	00590-05061-71	Screw	
3	1	00590-40105-71	Cylinder Housing (89/192 Mast)	
	1	00590-40106-71	Cylinder Housing (95/210 Mast)	
	1	00590-40107-71	Cylinder Housing (107/240 Mast)	
	1	00590-40108-71	Cylinder Housing (119/270 Mast)	
4	1	00590-03683-71	Ring, Snap	
5	1	00590-03959-71	Plunger Assembly	
6	1	00590-03875-71	Spring	R
8	1	00590-03968-71	Piston	
9	1	00590-03964-71	Rod, Cylinder (89/192 Mast)	
	1	00590-03965-71	Rod, Cylinder (95/210 Mast)	
	1	00590-03966-71	Rod, Cylinder (107/240 Mast)	
	1	00590-03967-71	Rod, Cylinder (119/270 Mast)	
12	1	00590-03861-71	Bearing	R
16	1	00590-03862-71	Kit, Seal (Not Shown)	R

R= Recommended Spare

List 6-12: Cylinder Assembly, Free Lift - 6BRU18/6BSU20 3 Stage

Pump and Motor Installation

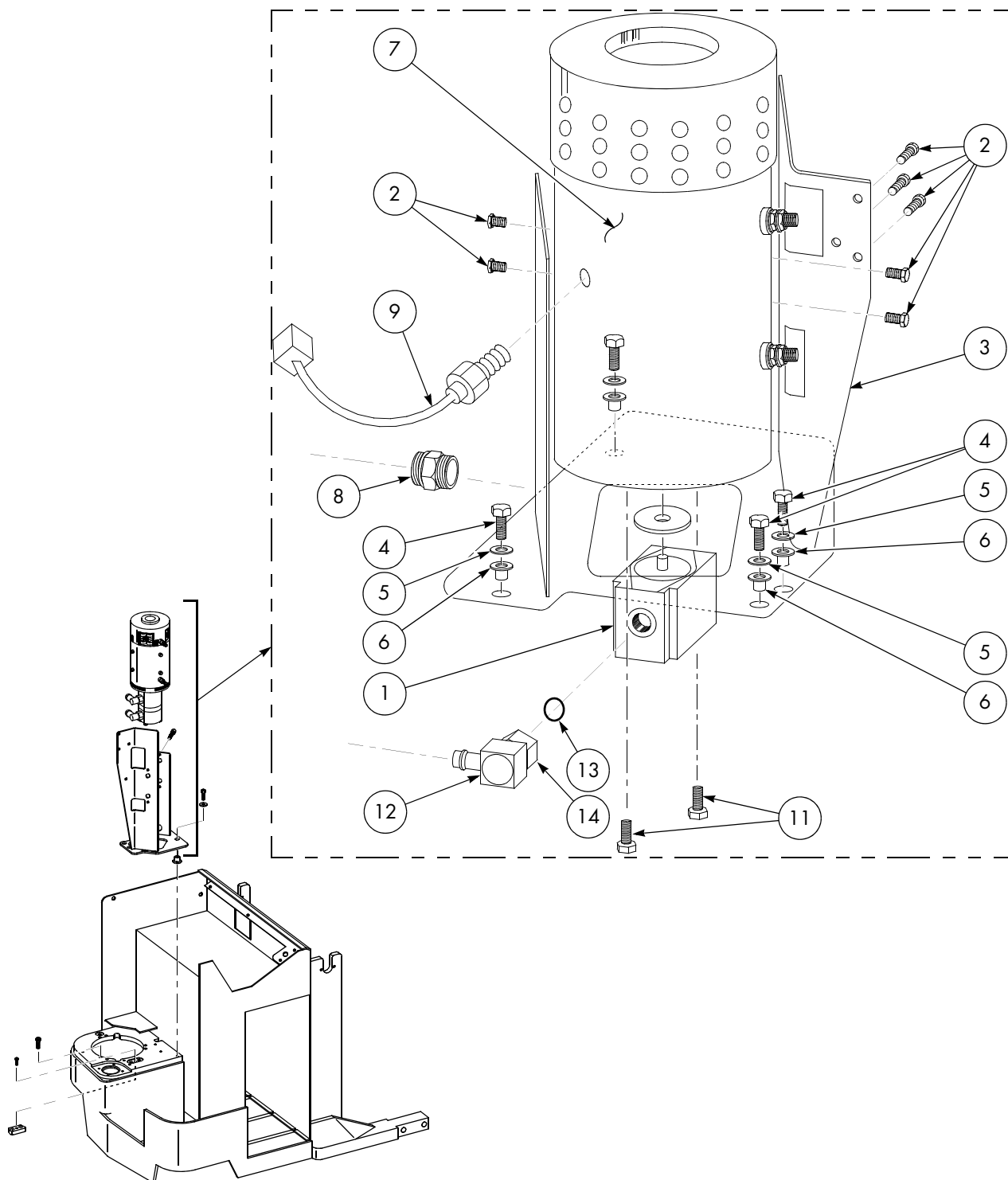


Figure 6-13: Pump and Motor Installation

1017730A-610A & B

FIGURE 6-13 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1		00590-04363-71	Lift Pump Assembly	A
		00590-04315-71	Lift Pump Assembly	B
	1	00590-39879-71	Lift Pump Assembly	C
2	7	00590-03787-71	Screw	
3	1	00590-45607-71	Bracket, Pump Mounting	A, B
	1	00590-43863-71	Bracket, Pump Mounting	C
4	4	00590-03797-71	Screw	
5	4	00590-03885-71	Washer, Flat	
6	4	00590-05127-71	Shock, Mount	
7	1	00590-04258-71	Motor Assembly, Pump, 24V	A
	1	00590-04259-71	Motor Assembly, Pump, 36V	B
	1	00590-04255-71	Motor Assembly, Pump, 36V	C
8	1	00590-42271-71	Adapter, Straight	
9	1	00590-04401-71	Thermistor Assembly	
11	2	00590-03799-71	Screw	
12	1	00590-05116-71	Fitting, Beaded Elbow	
13	1	00590-03823-71	O-Ring	A
	1	00590-03860-71	O-Ring	B
14	1	00590-04383-71	Gasket	C

A= 6BRU18/6BSU20 (24V Only)

B= 6BRU18/6BSU20 (36V Only)

C= 6BRU23/6BDRU15/6BSU25

List 6-13: Pump and Motor Installation

Manifold Assembly - 6BRU18/6BRU23/6BDRU15

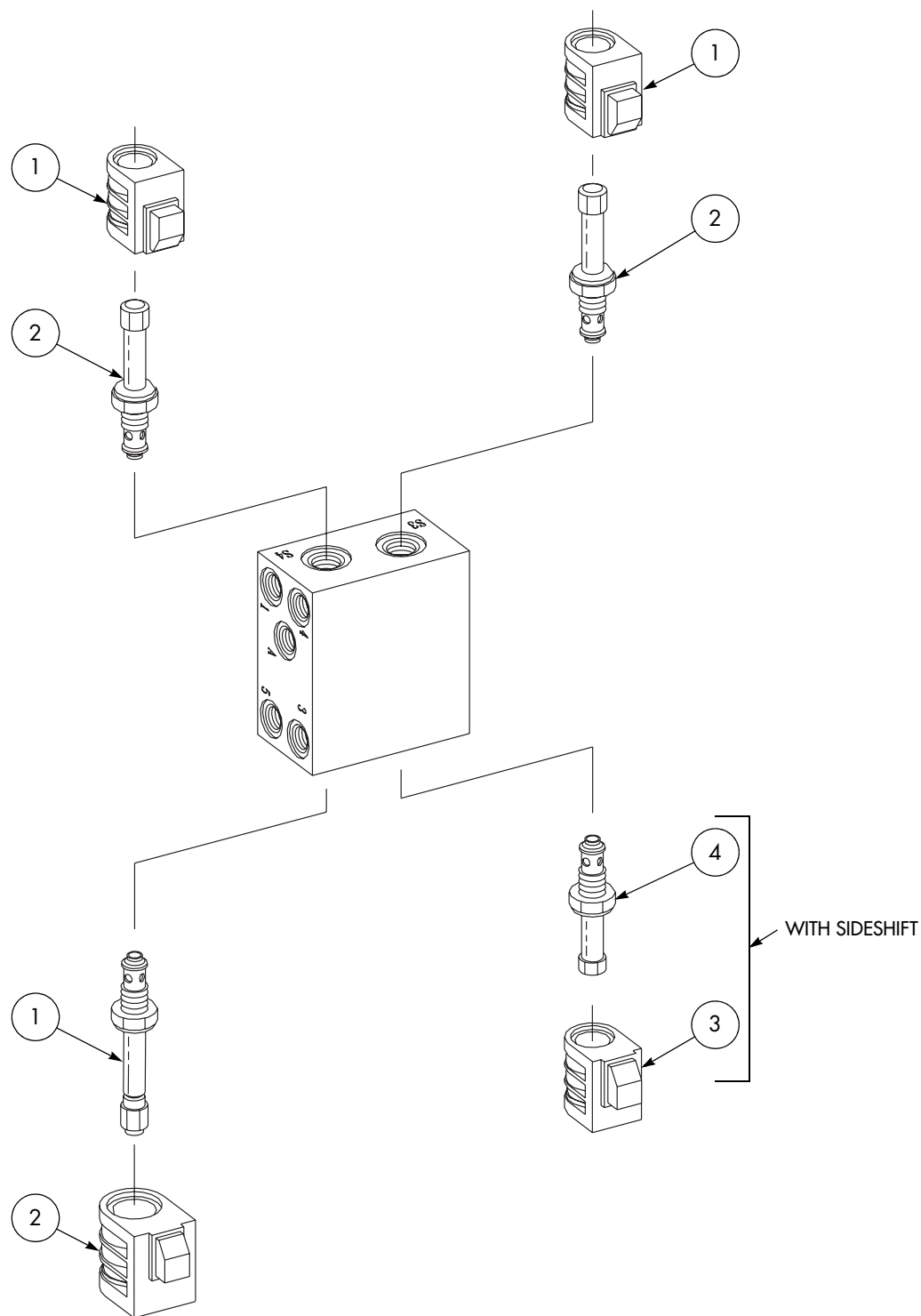


Figure 6-14: Manifold Assembly - 6BRU18/6BRU23/6BDRU15

Manifold Assembly - 6BRU18/6BRU23/6BDRU15

FIGURE 6-14 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-41162-71	Manifold Assembly (w/o Sideshift) (3500 LB)	
	1	00590-41935-71	Manifold Assembly (w/o Sideshift) (4500 LB)	
	1	00590-40754-71	Manifold Assembly (w/Sideshift)	
1	3	00590-05182-71	Coil	
2	3	00590-05180-71	Valve, Bi-Directional	R
3	1	00590-05179-71	Coil	A
4	1	00590-40109-71	Valve, 4-Way Spool	A, R

A= w/Sideshift

R= Recommended Spare

List 6-14: Manifold Assembly - 6BRU18/6BRU23/6BDRU15

Manifold Assembly - 6BSU20/6BSU25

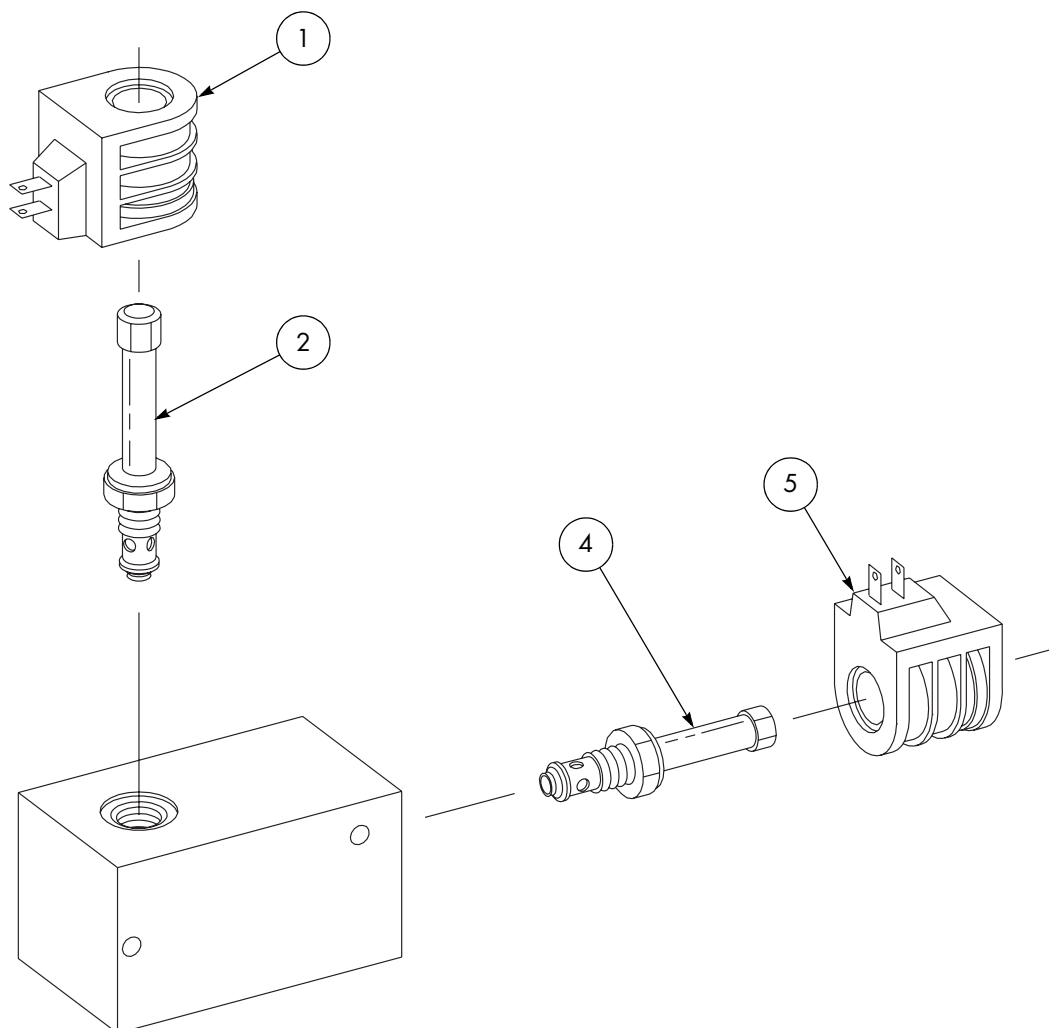


Figure 6-15: Manifold Assembly - 6BSU20/6BSU25

Manifold Assembly - 6BSU20/6BSU25

FIGURE 6-15 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-40111-71	Manifold Assembly, Tilt and Sideshift	A
	1	00590-40112-71	Manifold Assembly, Tilt Only	B
1	1	00590-05182-71	Coil	
2	2	00590-05180-71	Valve, Solenoid	R
4	1	00590-40109-71	Valve, 4-Way Spool	A, R
5	1	00590-05179-71	Coil	A

A= Tilt & Sideshift

B= Tilt Only

R= Recommended Spare

List 6-15: Manifold Assembly - 6BSU20/6BSU25

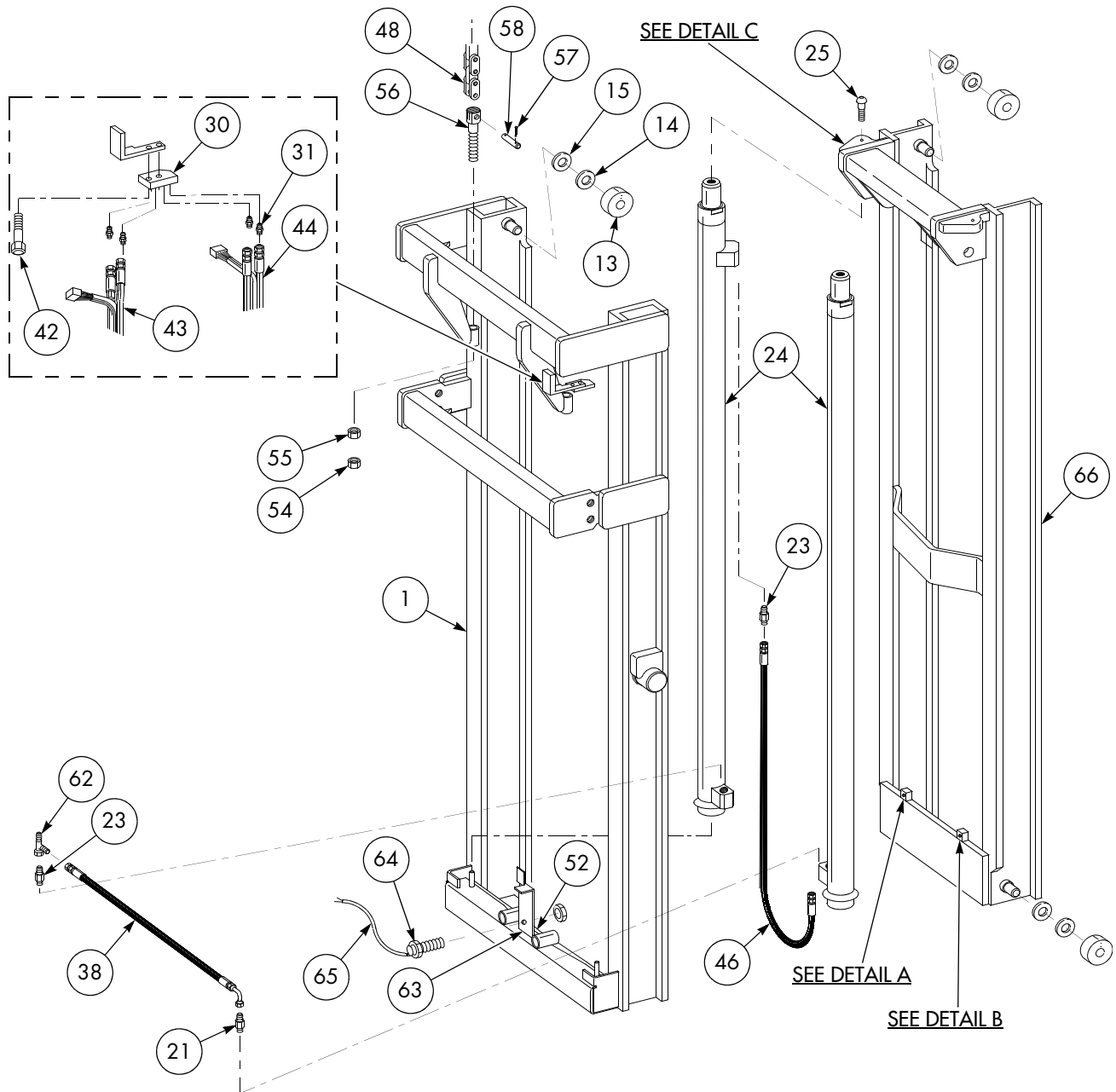
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SECTION 7 Mast

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Mast Assembly - 6BRU23/6BDRU15/6BSU25



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Figure 7-1a: Mast Assembly - 6BRU23/6BDRU15/6BSU25

This exploded view diagram illustrates the assembly of a window handle. The main components are labeled with circled numbers: 1 (handle body), 2 (rod), 3 (vertical support), 4 (pivot), 5 (pin), 6 (pin), 7 (pin), 8 (pin), 9 (pin), 10 (pin), 11 (pin), 12 (pin), 13 (pin), 14 (pin), 15 (pin), 16 (pin), 17 (pin), 18 (pin), 19 (pin), 20 (pin), 21 (pin), 22 (pin), 23 (pin), 24 (pin), 25 (pin), 26 (pin), 27 (pin), 28 (pin), 29 (pin), 30 (pin), 31 (pin), 32 (pin), 33 (pin), 34 (pin), 35 (pin), 36 (pin), 37 (pin), 38 (pin), 39 (pin), 40 (pin), 41 (pin), 42 (pin), 43 (pin), 44 (pin), 45 (pin), 46 (pin), 47 (pin), 48 (pin), 49 (pin), 50 (pin), 51 (pin), 52 (pin), 53 (pin), 54 (pin), 55 (pin), 56 (pin), 57 (pin), 58 (pin), 59 (pin), 60 (pin), 61 (pin), 62 (pin), 63 (pin), 64 (pin), 65 (pin), 66 (pin), 67 (pin), 68 (pin), 69 (pin), 70 (pin), 71 (pin), 72 (pin), 73 (pin), 74 (pin), 75 (pin), 76 (pin), 77 (pin), 78 (pin), 79 (pin), 80 (pin), 81 (pin), 82 (pin), 83 (pin), 84 (pin), 85 (pin), 86 (pin), 87 (pin), 88 (pin), 89 (pin), 90 (pin), 91 (pin), 92 (pin), 93 (pin), 94 (pin), 95 (pin), 96 (pin), 97 (pin), 98 (pin), 99 (pin), 100 (pin).

Three detailed views are provided:

- DETAIL A**: Shows the handle body (1) and the rod (2) assembly, including the pivot (4) and the pin (5).
- DETAIL B**: Shows the rod (2) and the vertical support (3) assembly, including the pin (6) and the pin (7).
- DETAIL C**: Shows the vertical support (3) and the pin (8) assembly, including the pin (9) and the pin (10).

Figure 7-1b: Mast Assembly - 6BRU23/6BDRU15/6BSU25

307645_A2

Mast Assembly - 6BRU23/6BDRU15/6BSU25

FIGURE 7-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Frame, Main Weldment	J
3	1	Ref.	Telescopic, Inner Weldment	J
4	1	00590-04116-71	Cylinder Assembly, Free Lift (See Figure 6-11.)	A
	1	00590-04117-71	Cylinder Assembly, Free Lift (See Figure 6-11.)	B
	1	00590-04118-71	Cylinder Assembly, Free Lift (See Figure 6-11.)	C
	1	00590-04119-71	Cylinder Assembly, Free Lift (See Figure 6-11.)	D
	1	00590-04120-71	Cylinder Assembly, Free Lift (See Figure 6-11.)	E
	1	00590-04121-71	Cylinder Assembly, Free Lift (See Figure 6-11.)	F
	1	00590-04122-71	Cylinder Assembly, Free Lift (See Figure 6-11.)	G
	1	00590-04123-71	Cylinder Assembly, Free Lift (See Figure 6-11.)	H
	1	00590-03910-71	Cylinder Assembly, Free Lift (See Figure 6-11.)	I
5	1	00590-04080-71	Head, Sheave Weldment	
6	2	00590-03658-71	Ring, Snap	
7	3	00590-04000-71	Sheave	
8	3	00590-05146-71	Bearing	R
9	3	00590-05140-71	Race, Inner	R
10	1	00590-03913-71	Screw, Set	
11	4	00590-03992-71	Shim, Chain Sheave	
12	2	00590-04243-71	Sheave, Triline	
13	4	00590-03816-71	Bearing, Mast Guide	R
14	3	00590-03693-71	Washer	
15	3	00590-03691-71	Washer	
16	4	00590-03673-71	Fitting, Grease	
17	1	00590-03918-71	Sheave	
18	1	00590-03922-71	Screw	
19	2	00590-03856-71	Spacer	
20	1	00590-04128-71	Shaft Weldment	
21	1	00590-04325-71	Valve, Flow Limiting (10 GPM)	R
22	1	00590-04326-71	Valve, Flow Limiting (19 GPM)	R
23	2	00590-05114-71	Fitting	
24	1	00590-04091-71	Cylinder, Staging Assembly (2 Port)	A
	1	00590-04092-71	Cylinder, Staging Assembly (1 Port)	A
	1	00590-04093-71	Cylinder, Staging Assembly (2 Port)	B
	1	00590-04094-71	Cylinder, Staging Assembly (1 Port)	B
	1	00590-04095-71	Cylinder, Staging Assembly (2 Port)	C
	1	00590-04096-71	Cylinder, Staging Assembly (1 Port)	C

A= 95/210 Mast

B= 107/240 Mast

C= 114/258 Mast

D= 119/270 Mast

E= 131/300 Mast

F= 143/330 Mast

G= 155/360 Mast

H= 167/390 Mast

I= 172/402 Mast

J= Contact Technical Support

R= Recommended Spare

List 7-1: Mast Assembly - 6BRU23/6BDRU15/6BSU25 (Sheet 1 of 4)

Models 6BRU18/6BRU23/6BDRU15/6BSU20/6BSU25 - Mast

Mast Assembly - 6BRU23/6BDRU15/6BSU25

FIGURE 7-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-04097-71	Cylinder, Staging Assembly (2 Port)	D
	1	00590-04098-71	Cylinder, Staging Assembly (1 Port)	D
	1	00590-04099-71	Cylinder, Staging Assembly (2 Port)	E
	1	00590-05230-71	Cylinder, Staging Assembly (1 Port)	E
	1	00590-05231-71	Cylinder, Staging Assembly (2 Port)	F
	1	00590-05232-71	Cylinder, Staging Assembly (1 Port)	F
	1	00590-05233-71	Cylinder, Staging Assembly (2 Port)	G
	1	00590-05234-71	Cylinder, Staging Assembly (1 Port)	G
	1	00590-05235-71	Cylinder, Staging Assembly (2 Port)	H
	1	00590-05236-71	Cylinder, Staging Assembly (1 Port)	H
	1	00590-05237-71	Cylinder, Staging Assembly (2 Port)	I
	1	00590-05238-71	Cylinder, Staging Assembly (1 Port)	I
25	1	00590-03928-71	Screw	
26	1	00590-04244-71	Line Assembly	
27	2	00590-03993-71	Shim, Chain Sheave	
28	1	00590-40122-71	Hose and Tubing Assembly	
29	1	00590-04045-71	Fitting, Bulkhead	
30	1	00590-04254-71	Manifold	
31	1	00590-04283-71	Adapter	
38	1	00590-04172-71	Hose Assembly	
39	1	00590-04127-71	Boss, Roller (Standard)	
40		00590-04319-71	Boss, Roller (Corrosion Protection)	
41	1	00590-04154-71	Washer, Shim	
42	1	00590-03801-71	Bolt	
43	1	00590-04196-71	Hose, Triline Assembly (Tractor)	A, R
	1	00590-04197-71	Hose, Triline Assembly (Tractor)	B, R
	1	00590-04198-71	Hose, Triline Assembly (Tractor)	C, R
	1	00590-04199-71	Hose, Triline Assembly (Tractor)	D, R
	1	00590-04200-71	Hose, Triline Assembly (Tractor)	E, R
	1	00590-04201-71	Hose, Triline Assembly (Tractor)	F, R
	1	00590-04203-71	Hose, Triline Assembly (Tractor)	G, R
	1	00590-04204-71	Hose, Triline Assembly (Tractor)	H, R
	1	00590-04205-71	Hose, Triline Assembly (Tractor)	I, R
44	1	00590-04245-71	Hose, Triline Assembly (Intermediate)	A, R
	1	00590-04246-71	Hose, Triline Assembly (Intermediate)	B, R
	1	00590-04247-71	Hose, Triline Assembly (Intermediate)	C, R

A= 95/210 Mast

B= 107/240 Mast

C= 114/258 Mast

D= 119/270 Mast

E= 131/300 Mast

F= 143/330 Mast

G= 155/360 Mast

H= 167/390 Mast

I= 172/402 Mast

J= Contact Technical Support

R= Recommended Spare

List 7-1: Mast Assembly - 6BRU23/6BDRU15/6BSU25 (Sheet 2 of 4)

Mast Assembly - 6BRU23/6BDRU15/6BSU25

FIGURE 7-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-04248-71	Hose, Triline Assembly (Intermediate)	D, R
	1	00590-04249-71	Hose, Triline Assembly (Intermediate)	E, R
	1	00590-04250-71	Hose, Triline Assembly (Intermediate)	F, R
	1	00590-04251-71	Hose, Triline Assembly (Intermediate)	G, R
	1	00590-04252-71	Hose, Triline Assembly (Intermediate)	H, R
	1	00590-04253-71	Hose, Triline Assembly (Intermediate)	I, R
45	1	00590-04294-71	Hose, Triline Assembly (Free Lift)	A, R
	1	00590-04295-71	Hose, Triline Assembly (Free Lift)	B, R
	1	00590-04296-71	Hose, Triline Assembly (Free Lift)	C, R
	1	00590-04297-71	Hose, Triline Assembly (Free Lift)	D, R
	1	00590-04298-71	Hose, Triline Assembly (Free Lift)	E, R
	1	00590-04299-71	Hose, Triline Assembly (Free Lift)	F, R
	1	00590-04300-71	Hose, Triline Assembly (Free Lift)	G, R
	1	00590-04301-71	Hose, Triline Assembly (Free Lift)	H, R
	1	00590-04302-71	Hose, Triline Assembly (Free Lift)	I, R
46	1	00590-05096-71	Hose Assembly	A
	1	00590-05097-71	Hose Assembly	B
	1	00590-05098-71	Hose Assembly	C
	1	00590-05099-71	Hose Assembly	D
	1	00590-05100-71	Hose Assembly	E
	1	00590-05101-71	Hose Assembly	F
	1	00590-05102-71	Hose Assembly	G
	1	00590-05103-71	Hose Assembly	H
	1	00590-05104-71	Hose Assembly	I
47	1	00590-05165-71	Chain, Lift Assembly (Free Lift) (See "Mast Chain Lengths" on page 7-62)	
48	1	00590-05165-71	Chain, Lift Assembly (Staging) (See "Mast Chain Lengths" on page 7-62)	
49	1	00590-03793-71	Screw	
50	1	00590-03917-71	Screw	
51	1	00590-05154-71	Screw	
52	1	00590-03917-71	Screw	
53	1	00590-04138-71	Bracket	
54	2	00590-03933-71	Nut	
55	2	00590-03974-71	Nut	
56	2	00590-03975-71	Anchor, Chain	
57	4	00590-03671-71	Pin, Cotter	

A= 95/210 Mast

B= 107/240 Mast

C= 114/258 Mast

D= 119/270 Mast

E= 131/300 Mast

F= 143/330 Mast

G= 155/360 Mast

H= 167/390 Mast

I= 172/402 Mast

J= Contact Technical Support

R= Recommended Spare

List 7-1: Mast Assembly - 6BRU23/6BDRU15/6BSU25 (Sheet 3 of 4)

Models 6BRU18/6BRU23/6BDRU15/6BSU20/6BSU25 - Mast

Mast Assembly - 6BRU23/6BDRU15/6BSU25

FIGURE 7-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
58	4	00590-03995-71	Pin, Clevis	
59	1	00590-03900-71	Pin	
60	1	00590-03669-71	Pin, Cotter	
61	1	00590-05153-71	Washer, Lock	
62	1	00590-05077-71	Tee	
63	1	00590-04333-71	Bracket, Proximity. Switch	
64	1	00590-04241-71	Switch, Proximity	
65	1	00590-03720-71	Terminal, Wire	
66	1	00590-04070-71	Telescopic Weldment, Outer	A
	1	00590-04071-71	Telescopic Weldment, Outer	B
	1	00590-04072-71	Telescopic Weldment, Outer	C
	1	00590-04073-71	Telescopic Weldment, Outer	D
	1	00590-04074-71	Telescopic Weldment, Outer	E
	1	00590-04075-71	Telescopic Weldment, Outer	F
	1	00590-04076-71	Telescopic Weldment, Outer	G
	1	00590-04077-71	Telescopic Weldment, Outer	H
	1	00590-04078-71	Telescopic Weldment, Outer	I

A= 95/210 Mast

B= 107/240 Mast

C= 114/258 Mast

D= 119/270 Mast

E= 131/300 Mast

F= 143/330 Mast

G= 155/360 Mast

H= 167/390 Mast

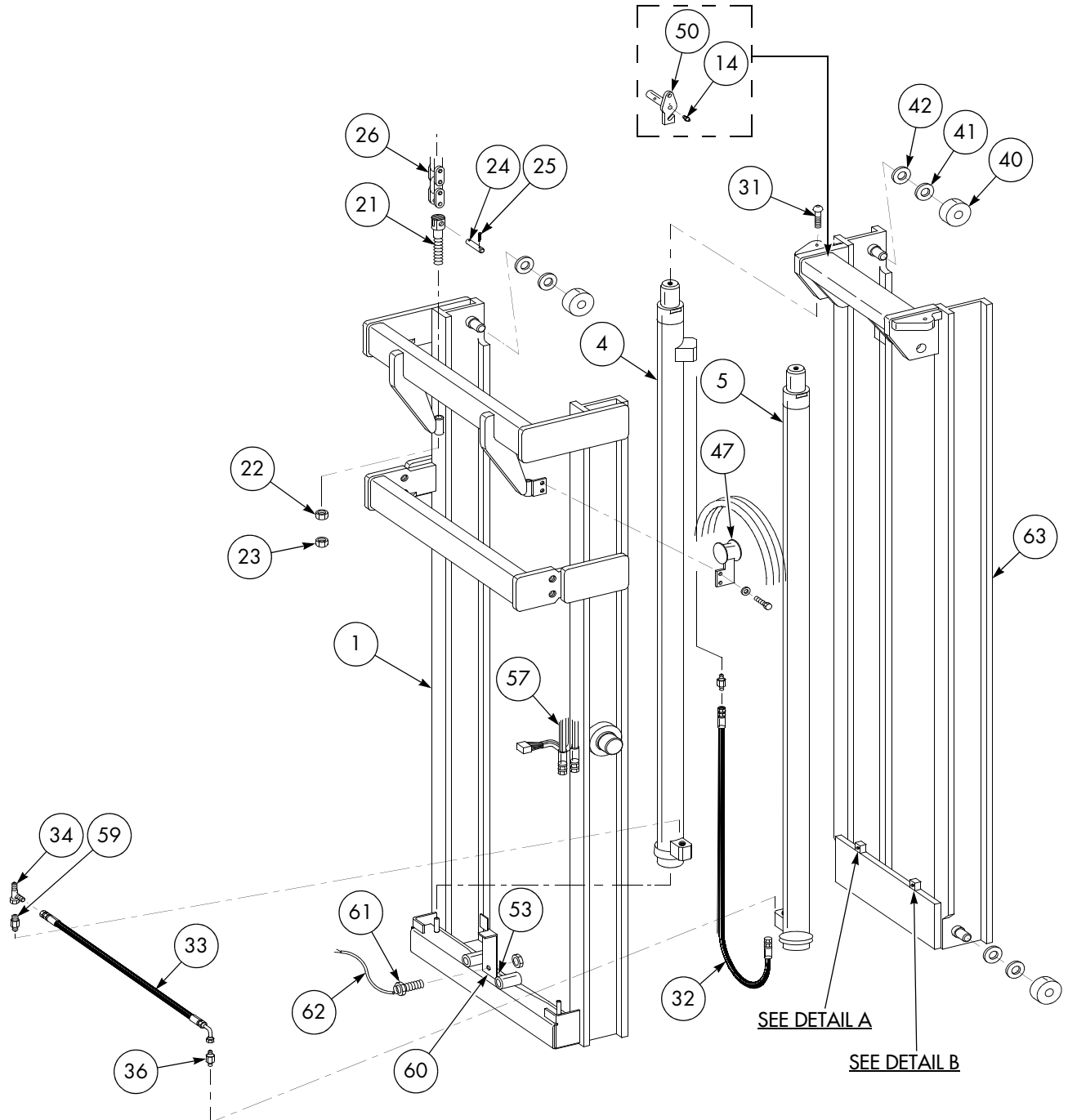
I= 172/402 Mast

J= Contact Technical Support

R= Recommended Spare

List 7-1: Mast Assembly - 6BRU23/6BDRU15/6BSU25 (Sheet 4 of 4)

Mast Assembly - 6BRU18/6BSU20



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Figure 7-2a: Mast Assembly - 6BRU18/6BSU20

Mast Assembly - 6BRU18/6BSU20

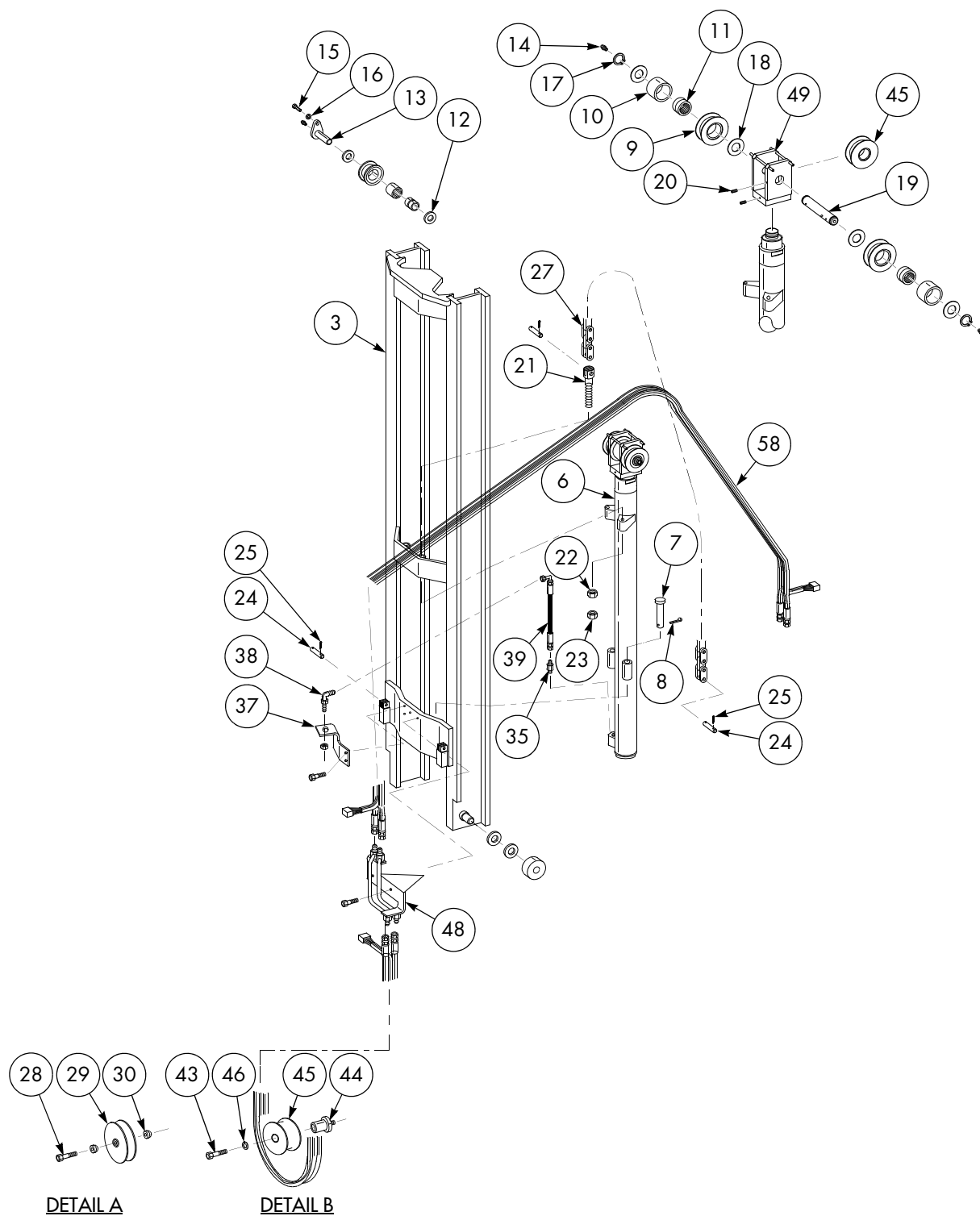


Figure 7-2b: Mast Assembly - 6BRU18/6BSU20

305694_A2

FIGURE 7-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-03938-71	Frame, Main Weldment	A
	1	00590-03939-71	Frame, Main Weldment	B
	1	00590-03940-71	Frame, Main Weldment	C
	1	00590-03941-71	Frame, Main Weldment	D
3	1	00590-04014-71	Telescopic Weldment, Inner	A
	1	00590-04015-71	Telescopic Weldment, Inner	B
	1	00590-04016-71	Telescopic Weldment, Inner	C
	1	00590-04017-71	Telescopic Weldment, Inner	D
4	1	00590-03943-71	Cylinder, Staging Assembly, Left Hand (See Figure 6-10.)	A
	1	00590-05239-71	Cylinder, Staging Assembly, Left Hand (See Figure 6-10.)	B
	1	00590-05240-71	Cylinder, Staging Assembly, Left Hand (See Figure 6-10.)	C
	1	00590-05241-71	Cylinder, Staging Assembly, Left Hand (See Figure 6-10.)	D
5	1	00590-39555-71	Cylinder, Staging Assembly, Right Hand (See Figure 6-10.)	A
	1	00590-39543-71	Cylinder, Staging Assembly, Right Hand (See Figure 6-10.)	B
	1	00590-39544-71	Cylinder, Staging Assembly, Right Hand (See Figure 6-10.)	C
	1	00590-39545-71	Cylinder, Staging Assembly, Right Hand (See Figure 6-10.)	D
6	1	00590-39554-71	Cylinder, Free Lift Assembly (See Figure 6-12.)	A
	1	00590-39546-71	Cylinder, Free Lift Assembly (See Figure 6-12.)	B
	1	00590-39547-71	Cylinder, Free Lift Assembly (See Figure 6-12.)	C
	1	00590-39497-71	Cylinder, Free Lift Assembly (See Figure 6-12.)	D
7	2	00590-03900-71	Pin, Cylinder Anchor	
8	2	00590-03669-71	Pin, Cotter	
9	3	00590-03873-71	Sheave, Chain	
10	3	00590-05147-71	Bearing	R
11	3	00590-05145-71	Race, Inner	R
12	2	00590-03872-71	Washer, Shim	
13	1	00590-03876-71	Shaft, Weldment	
14	4	00590-03673-71	Fitting, Grease	
15	2	00590-05154-71	Screw, Cap	
16	2	00590-05153-71	Washer, Lock	
17	2	00590-03979-71	Ring, Snap	
18	4	00590-03973-71	Shim, Washer	
19	1	00590-03969-71	Shaft, Sheave (Standard)	
	1	00590-04321-71	Shaft, Sheave (Corrosion Package)	
20	1	00590-03913-71	Screw, Set	
21	2	00590-03975-71	Anchor, Chain	
22	2	00590-03974-71	Nut	
23	2	00590-03934-71	Nut	
24	3	00590-03995-71	Pin, Clevis	
25	3	00590-03671-71	Pin, Cotter	
26	1	00590-03752-71	Chain Assembly, Staging	A

A= 89/192 Mast
B= 95/210 Mast
C= 107/240 Mast
D= 119/270 Mast
R= Recommended Spare

List 7-2: Mast Assembly - 6BRU18/6BSU20 (Sheet 1 of 3)

Models 6BRU18/6BRU23/6BDRU15/6BSU20/6BSU25 - Mast

Mast Assembly - 6BRU18/6BSU20

FIGURE 7-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-03753-71	Chain Assembly, Staging	B
	1	00590-03755-71	Chain Assembly, Staging	C
	1	00590-03754-71	Chain Assembly, Staging	D
27	1	00590-03751-71	Chain Assembly, Free Lift	A
	1	00590-40123-71	Chain Assembly, Free Lift	B
	1	00590-40124-71	Chain Assembly, Free Lift	C
	1	00590-40125-71	Chain Assembly, Free Lift	D
28	1	00590-03927-71	Screw	
29	1	00590-03918-71	Sheave, Hose	
30	1	00590-04126-71	Spacer	
31	1	00590-03922-71	Screw, Cap	
32	1	00590-05095-71	Hose Assembly, Staging	A
	1	00590-05094-71	Hose Assembly, Staging	B
	1	00590-05093-71	Hose Assembly, Staging	C
	1	00590-05092-71	Hose Assembly, Staging	D
33	1	00590-04172-71	Hose Assembly	
34	1	00590-04040-71	Fitting	
35	1	00590-04324-71	Limiter, Flow	R
36	1	00590-04323-71	Limiter, Flow	R
37	1	00590-03991-71	Bracket	
38	1	00590-04045-71	Fitting, Bulkhead	
39	1	00590-04191-71	Hose Assembly	
40	8	00590-03816-71	Bearing, Mast Guide	R
41	3	00590-03693-71	Washer, Shim	
42	4	00590-03691-71	Washer, Shim	
43	3	00590-03911-71	Screw	
44	1	00590-03977-71	Shaft, Sheave (Standard)	
	1	00590-03978-71	Shaft, Sheave (Corrosion Package)	
45	2	00590-03983-71	Sheave	
46	1	00590-03767-71	Washer	
47	1	00590-03993-71	Sheave Weldment	
48	1	00590-03997-71	Line, Hydraulic	
49	1	00590-03970-71	Sheave Head Weldment	
50	1	00590-04125-71	Shaft Weldment	
53	1	00590-03917-71	Screw	
57	1	00590-04202-71	Hose Assembly, Triline	A
	1	00590-39498-71	Hose Assembly, Triline	B
	1	00590-39499-71	Hose Assembly, Triline	C
	1	00590-39500-71	Hose Assembly, Triline	D
58	1	00590-43060-71	Hose Assembly, Triline	A
	1	00590-39665-71	Hose Assembly, Triline	B

A= 89/192 Mast
 B= 95/210 Mast
 C= 107/240 Mast
 D= 119/270 Mast
 R= Recommended Spare

List 7-2: Mast Assembly - 6BRU18/6BSU20 (Sheet 2 of 3)

FIGURE 7-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-39558-71	Hose Assembly, Triline	C
	1	00590-39559-71	Hose Assembly, Triline	D
59	2	00590-05114-71	Fitting	
60	1	00590-04333-71	Bracket	
61	1	00590-04241-71	Switch, Proximity	
62	1	00590-03720-71	Terminal, Wire	
63	1	00590-04336-71	Telescopic Weldment, Outer	A
	1	00590-04337-71	Telescopic Weldment, Outer	B
	1	00590-04338-71	Telescopic Weldment, Outer	C
	1	00590-04339-71	Telescopic Weldment, Outer	D

A= 89/192 Mast

B= 95/210 Mast

C= 107/240 Mast

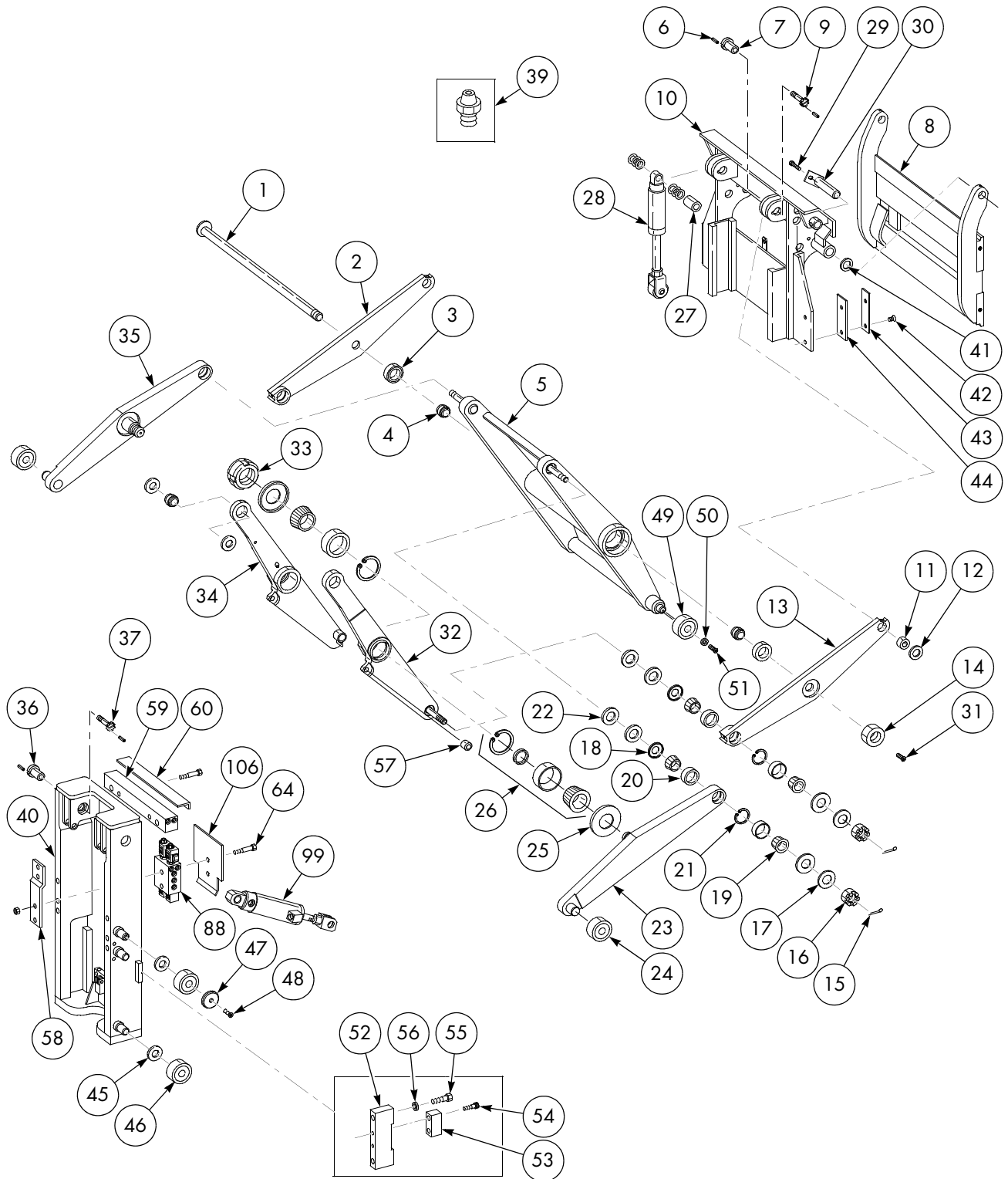
D= 119/270 Mast

R= Recommended Spare

List 7-2: Mast Assembly - 6BRU18/6BSU20 (Sheet 3 of 3)

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Reach Assembly - 6BDRU15



7243-002

Figure 7-3a: Reach Assembly - 6BDRU15

Reach Assembly - 6BDRU15

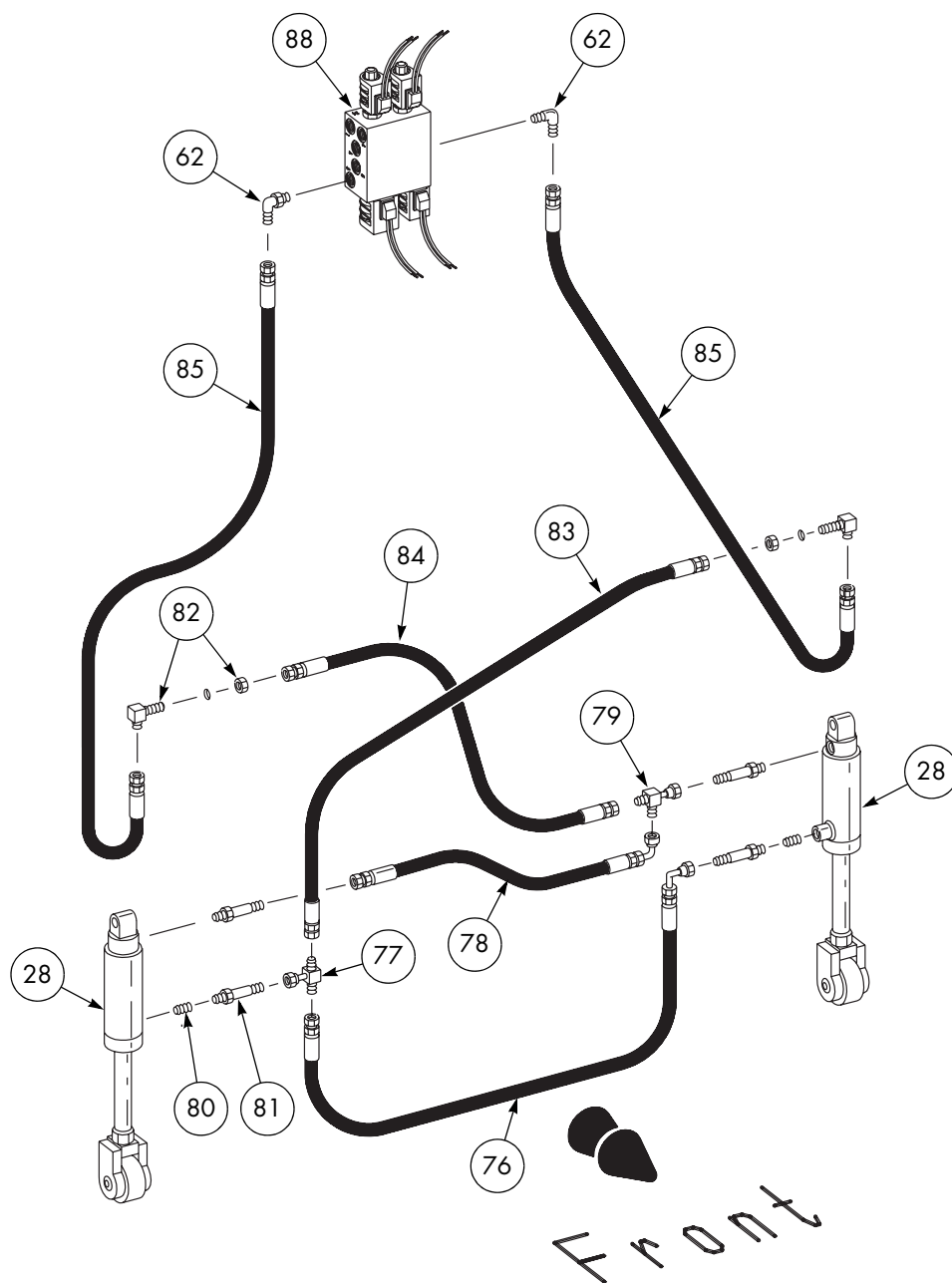
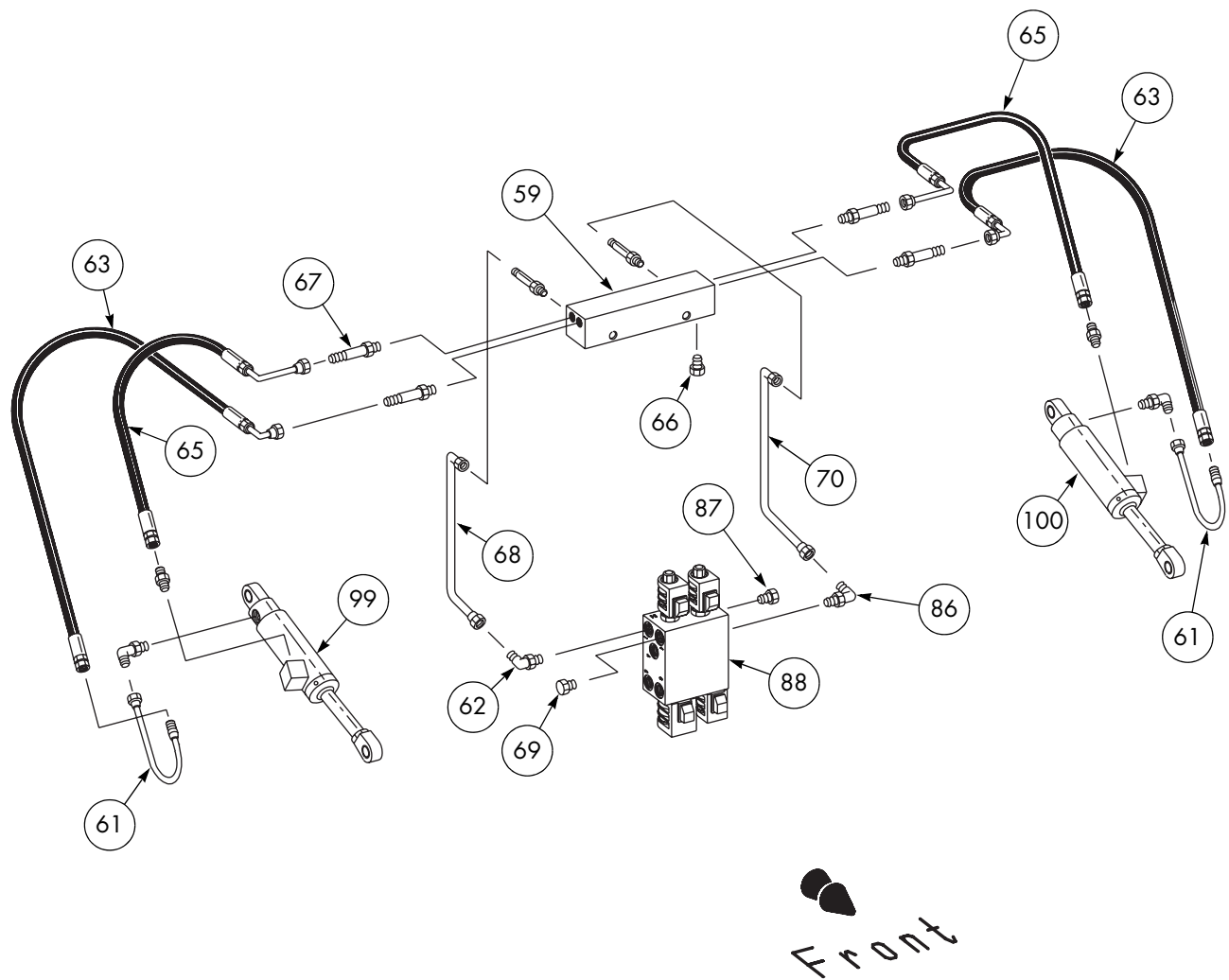


Figure 7-3b: Reach Assembly - 6BDRU15

6127-401

Reach Assembly - 6BDRU15



6129-201

Figure 7-3c: Reach Assembly - 6BDRU15

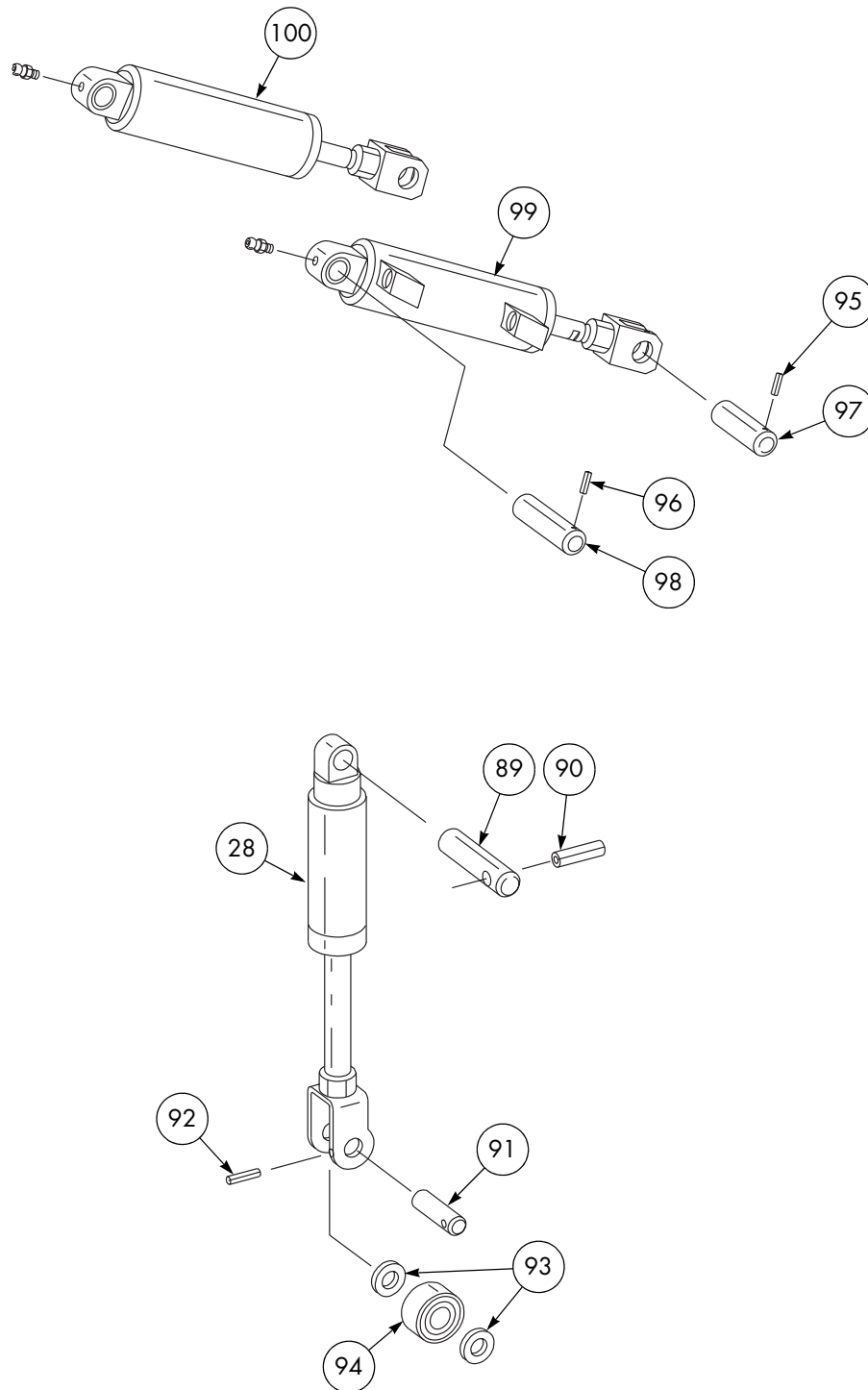
This diagram illustrates the wiring harness assembly for the front left headlight. The components are labeled as follows:

- 73**: Headlight bulb
- 71**: Headlight switch
- 72**: Headlight relay
- 74**: Headlight wiring harness
- 75**: Headlight bulb connector
- 88**: Headlight switch connector

The diagram shows the headlight bulb (73) connected to the headlight wiring harness (74) via the headlight bulb connector (75). The headlight switch (71) is connected to the headlight wiring harness (74) via the headlight switch connector (88). The headlight relay (72) is connected to the headlight wiring harness (74) via the headlight relay connector (72).

6126-400

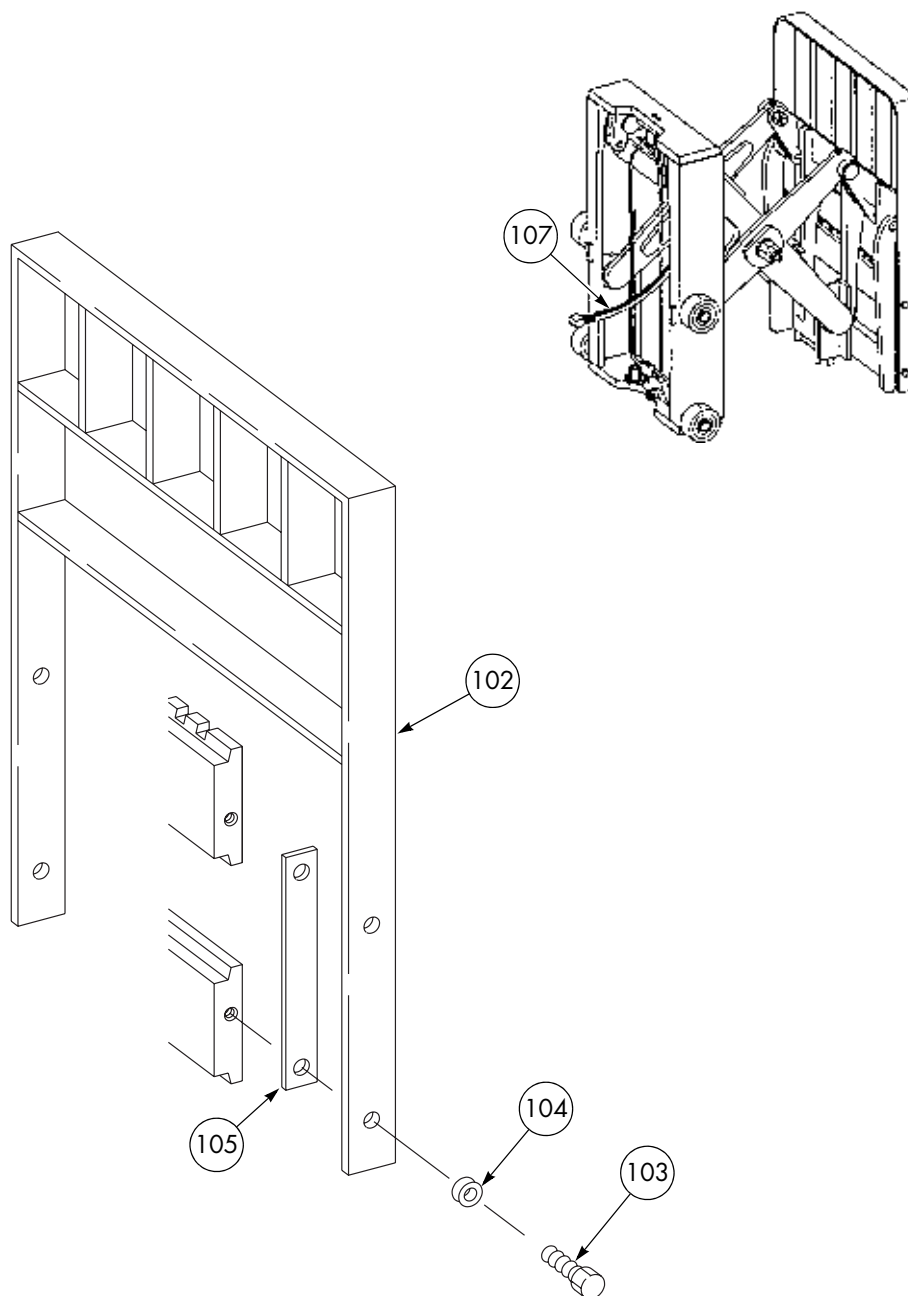
Reach Assembly - 6BDRU15



6650-002

Figure 7-3e: Reach Assembly - 6BDRU15

Reach Assembly - 6BDRU15



95001-100

Figure 7-3f: Reach Assembly - 6BDRU15

FIGURE 7-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-05016-71	Shaft Weldment	
2	1	00590-05019-71	Arm Weldment	
3	2	00590-04466-71	Bearing, Thrust	R
4	2	00590-04465-71	Bearing	R
5	1	00590-04223-71	Arm, Front Weldment	
6	3	00590-03666-71	Pin, Roll	
7	1	00590-04471-71	Pin	
8	1	00590-04415-71	Frame, Fork Weldment	
9	1	00590-04473-71	Screw	
10	1	00590-39668-71	Frame, Fork Weldment	
11	2	00590-04463-71	Bushing	R
12	2	00590-40126-71	Washer, Thrust, 0.187 in.	
	2	00590-05130-71	Washer, Thrust, 0.125 in.	
	2	00590-05131-71	Washer, Thrust, 0.062 in.	
13	1	00590-04997-71	Arm Weldment	
14	1	00590-05006-71	Nut	
15	1	00590-05132-71	Pin, Cotter	
16	2	00590-05072-71	Nut, Slotted	
17	2	00590-03654-71	Washer	
18	1	00590-05005-71	Ring	
19	2	00590-05003-71	Bearing, Cone	
20	1	00590-05004-71	Bearing, Cup	
21	1	00590-03682-71	Ring	
22	1	00590-05007-71	Washer, Shim	
23	1	00590-04996-71	Arm Weldment	
24	2	00590-05002-71	Bearing	
25	2	00590-05070-71	Ring	
26	2	00590-05071-71	Bearing	
27	1	00590-04481-71	Spacer	
28	2	00590-05026-71	Cylinder Assembly, Tilt (See Figure 6-7.)	
29	1	00590-05118-71	Screw	
30	1	00590-05038-71	Pin, Weldment	
31	1	00590-03677-71	Screw, Set	
32	1	00590-04999-71	Arm Weldment	
33	1	00590-39580-71	Nut, Lock	
34	1	00590-04998-71	Arm Weldment	
35	1	00590-04995-71	Arm Weldment	
36	1	00590-05001-71	Pin	
37	1	00590-05000-71	Screw	
39	1	00590-03673-71	Fitting, Grease	
40	1	00590-43113-71	Frame, Rear	
41	2	00590-03692-71	Washer	

A= w/Sideshift

B= w/o Sideshift

R= Recommended Spare

List 7-3: Reach Assembly - 6BDRU15 (Sheet 1 of 3)

Reach Assembly - 6BDRU15

FIGURE 7-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
42	1	00590-03685-71	Screw	
43	1	00590-04484-71	Wear Bar	
44	1	00590-04477-71	Shim	
45	3	00590-03694-71	Washer, Shim, 0.050 in.	
	3	00590-40127-71	Washer, Shim, 0.025 in.	
46	2	00590-05124-71	Bearing	R
47	1	00590-03976-71	Cap, Bearing	
48	1	00590-03684-71	Screw	
49	1	00590-05141-71	Bearing	R
50	1	00590-04467-71	Cap	
51	1	00590-03687-71	Screw	
52	1	00590-03972-71	Block, Bumper	
53	1	00590-05068-71	Bumper	
54	1	00590-03659-71	Screw	
55	1	00590-03660-71	Screw, Socket	
56	1	00590-03644-71	Washer, Lock	
57	1	00590-03657-71	Bushing	R
58	1	00590-04222-71	Mount	
59	1	00590-05013-71	Manifold	
60	1	00590-05041-71	Cover	
61	1	00590-04390-71	Line Assembly	
62	2	00590-04285-71	Elbow	
63	2	00590-05084-71	Hose Assembly	
64	1	00590-04283-71	Adapter	
65	2	00590-05083-71	Hose Assembly	
66	1	00590-03703-71	Plug, O-Ring Boss	
67	2	00590-04281-71	Adapter	
68	1	00590-05020-71	Tube Assembly	
69	2	00590-03704-71	Plug, O-Ring Boss	
70	1	00590-05021-71	Line Assembly	
71	1	00590-04269-71	Mount, Bulkhead	
72	1	00590-03787-71	Screw	
73	1	00590-04266-71	Line Assembly	
74	1	00590-04267-71	Line Assembly	
75	2	00590-04287-71	Fitting, Elbow	
76	1	00590-05081-71	Hose Assembly	
77	1	00590-05078-71	Fitting, Tee	
78	1	00590-05082-71	Hose Assembly	
79	1	00590-04039-71	Tee	
80	2	00590-05040-71	Screw, Set	
81	2	00590-05039-71	Fitting, Special	
82	2	00590-04042-71	Fitting, Elbow	
83	1	00590-39928-71	Hose Assembly	

A= w/Sideshift

B= w/o Sideshift

R= Recommended Spare

List 7-3: Reach Assembly - 6BDRU15 (Sheet 2 of 3)

FIGURE 7-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
84	1	00590-05079-71	Hose Assembly	
85	2	00590-04487-71	Hose Assembly	
	2	00590-05067-71	Hose Assembly	
86	1	00590-41740-71	Fitting	A
87	1	00590-04284-71	Adapter	
88	1	Ref.	Manifold (w/o Sideshift)	B
	1	00590-39924-71	Manifold (w/Sideshift)	A
89	2	00590-03714-71	Pin	
90	1	00590-03661-71	Pin, Roll	
91	2	00590-04475-71	Pin	
92	2	00590-03665-71	Pin, Roll	
93	4	00590-03690-71	Washer	
94	2	00590-03829-71	Bearing	
95	1	00590-03667-71	Pin, Roll	
96	1	00590-03668-71	Pin, Roll	
97	1	00590-05017-71	Pin	
98	1	00590-05018-71	Pin	
99	1	00590-05029-71	Cylinder Assembly (See Figure 6-5.)	B
	1	00590-05030-71	Cylinder Assembly (See Figure 6-5.)	A
100	1	00590-05031-71	Cylinder Assembly (See Figure 6-5.)	B
	1	00590-05032-71	Cylinder Assembly (See Figure 6-5.)	A
102	1	00590-46929-71	Load Backrest Weldment (48 in.)	
103	1	00590-03921-71	Screw	
104	1	00590-05150-71	Washer, Flat	
105	1	00590-05034-71	Spacer	
106	1	00590-04303-71	Cover, Valve	
107	1	00590-40328-71	Harness, Double Reach	
108	1	00590-04210-71	Coil, Simulator (Not Shown)	
109	1	00590-03847-71	Strap, Tie (Not Shown)	

A= w/Sideshift

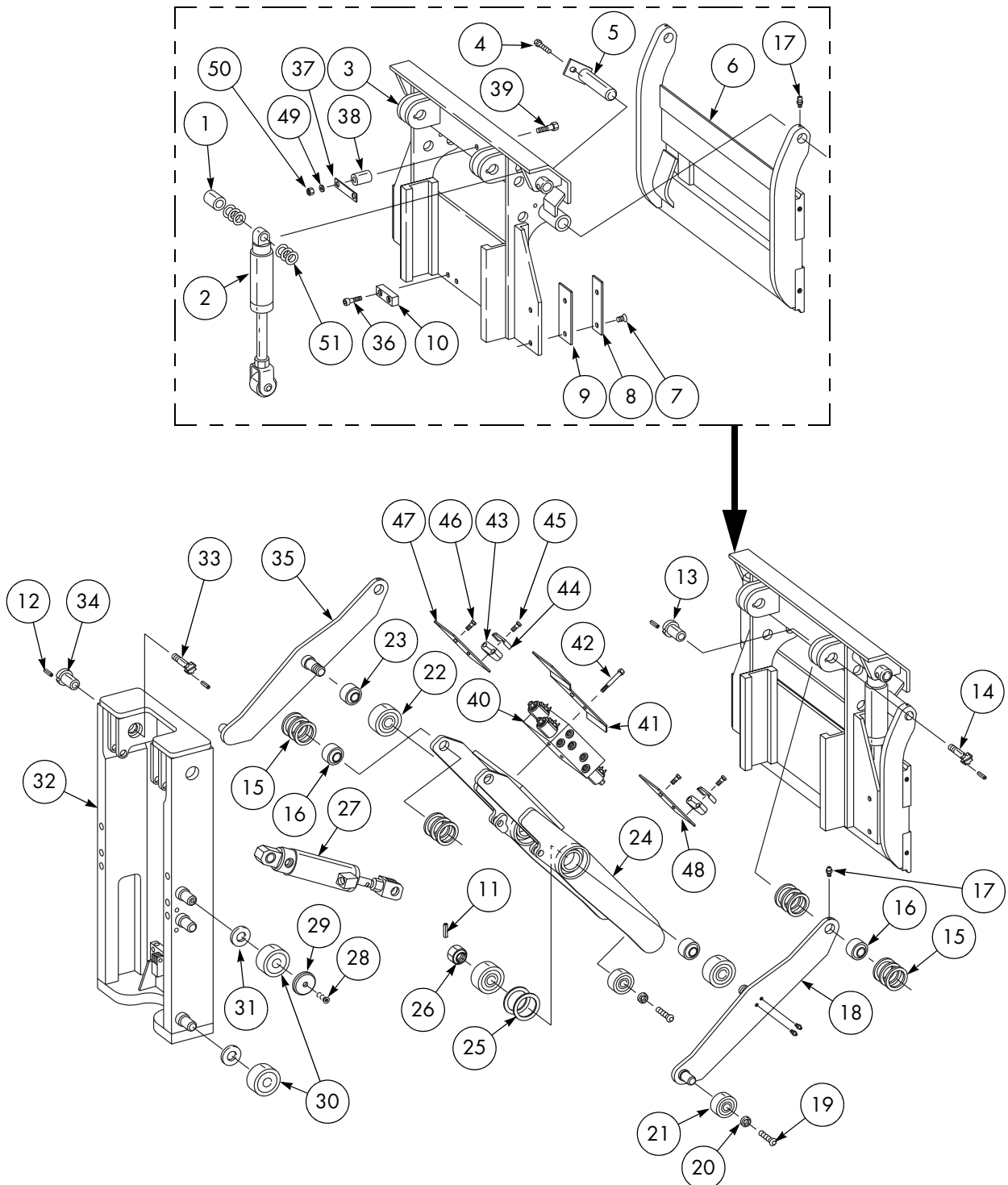
B= w/o Sideshift

R= Recommended Spare

List 7-3: Reach Assembly - 6BDRU15 (Sheet 3 of 3)

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Reach Assembly - 6BRU23



7242-003

Figure 7-4a: Reach Assembly - 6BRU23

Reach Assembly - 6BRU23

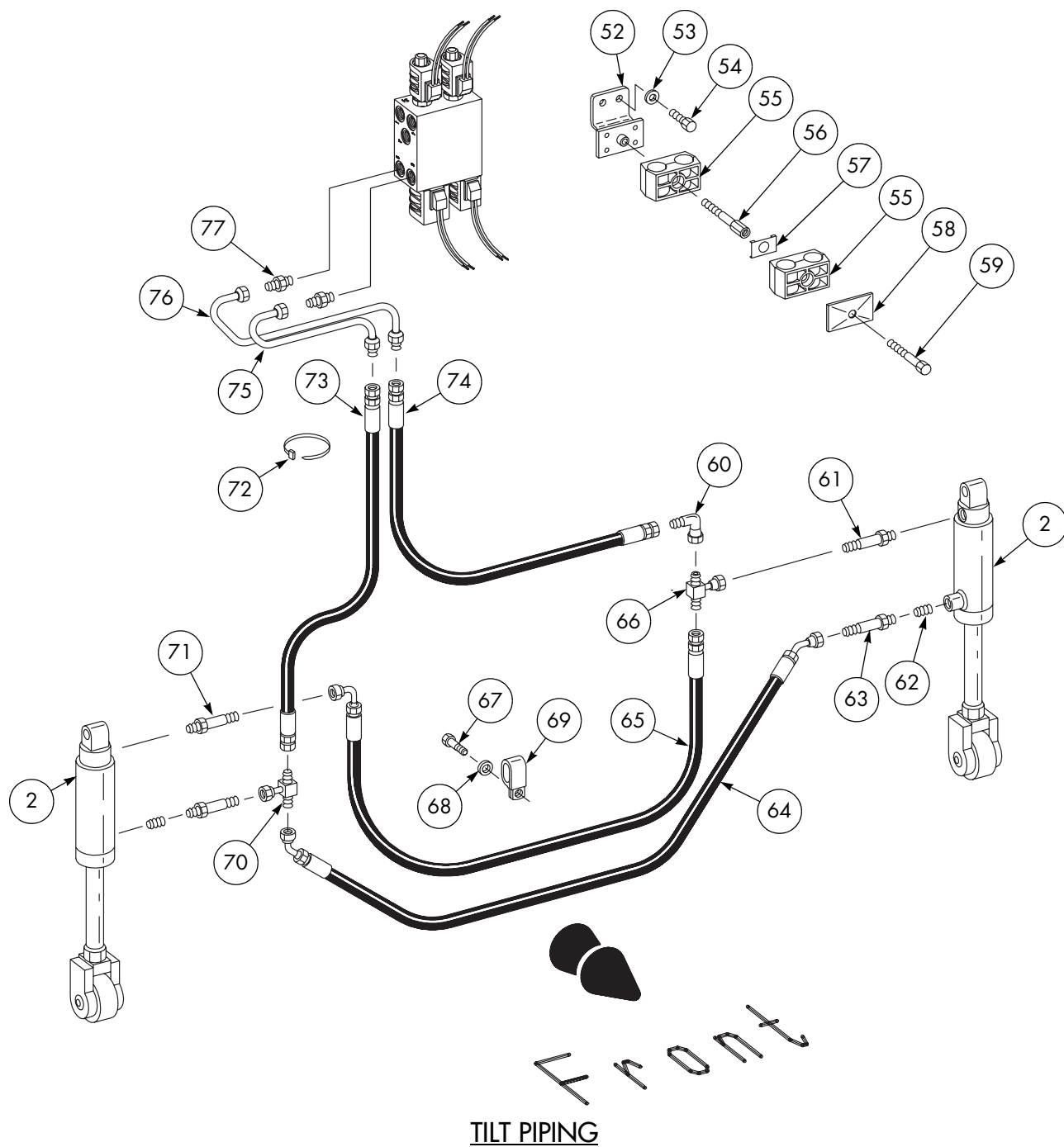
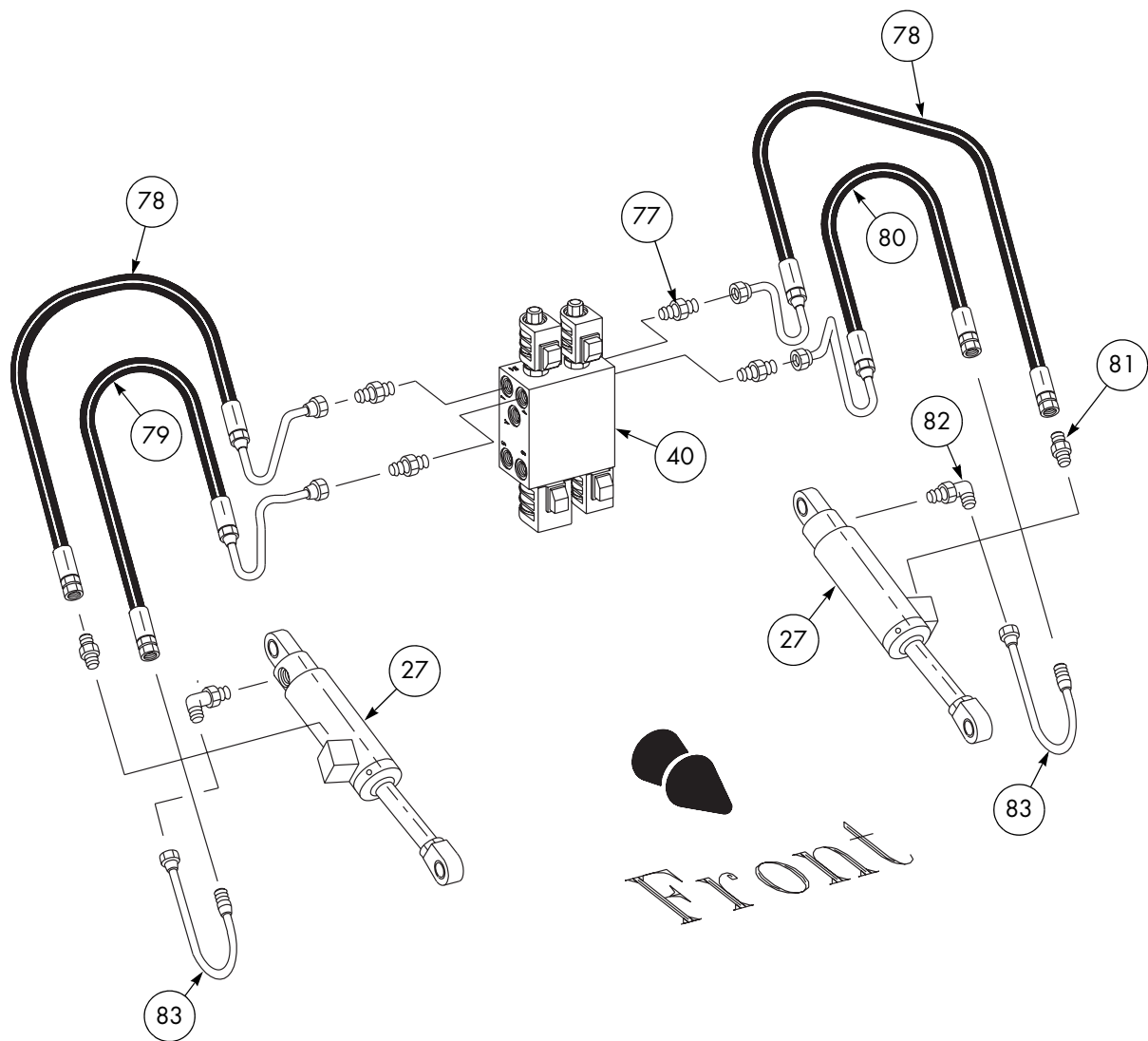


Figure 7-4b: Reach Assembly - 6BRU23

6127-301

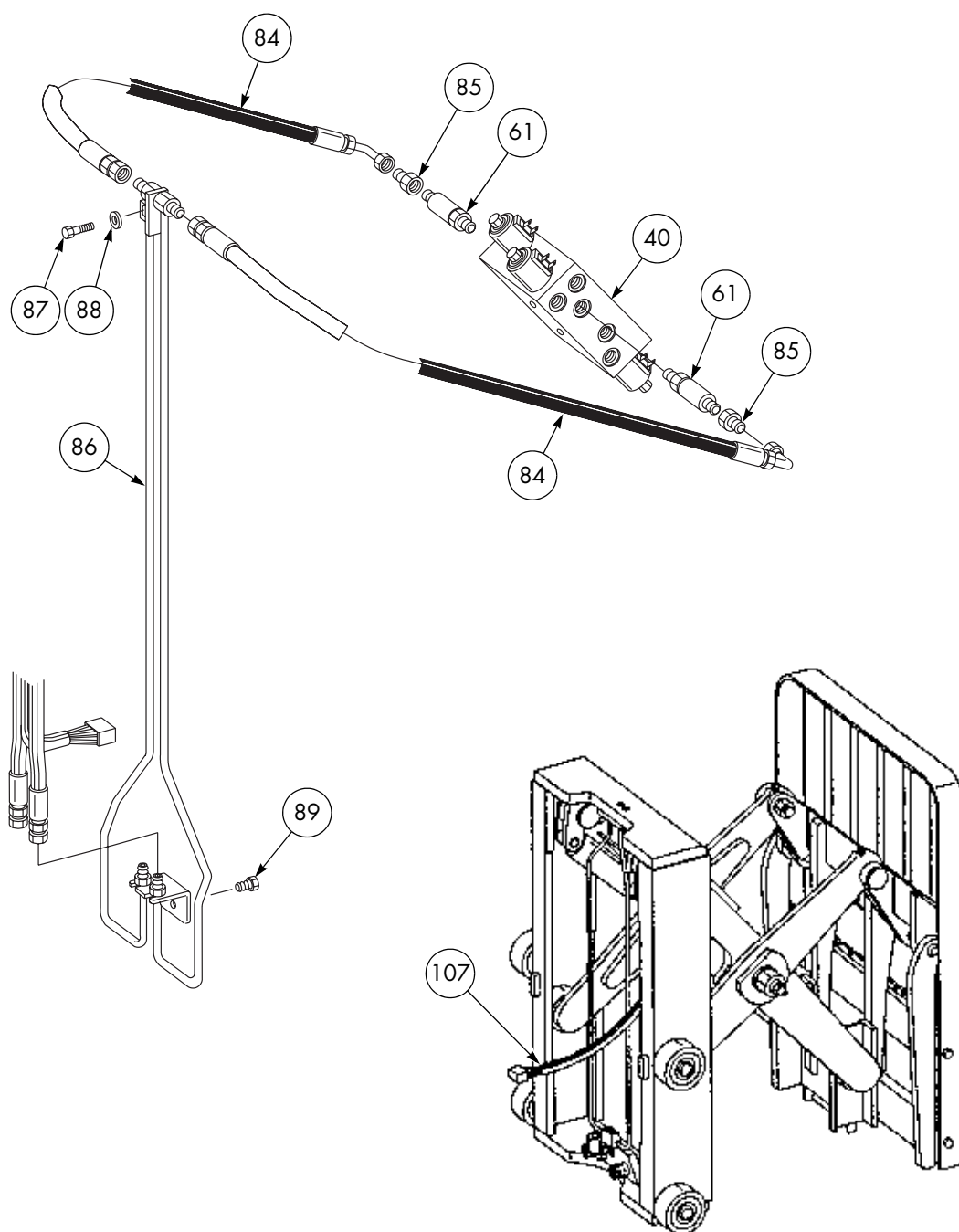
Reach Assembly - 6BRU23



6129-102

Figure 7-4c: Reach Assembly - 6BRU23

Reach Assembly - 6BRU23



6126-300/HARNESS7

Figure 7-4d: Reach Assembly - 6BRU23

Reach Assembly - 6BRU23

FIGURE 7-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		00590-40128-71	Assembly Single Reach (6BRU23)	
1	2	00590-40129-71	Spacer	
2	1	00590-05024-71	Cylinder Assembly, Tilt, Left Hand (See Figure 6-8.)	
	1	00590-05010-71	Cylinder Assembly, Tilt, Right Hand (See Figure 6-8.)	
3	1	00590-40130-71	Frame, Front	
4	1	00590-05118-71	Screw	
5	1	00590-05038-71	Pin Weldment	
6	1	00590-04415-71	Frame, Fork	
7	1	00590-03686-71	Screw	
8	1	00590-04483-71	Bar, Wear	
9	1	00590-04476-71	Shim	
10	1	00590-05068-71	Bumper	
11	1	00590-03663-71	Roll, Pin	
12	3	00590-03666-71	Pin, Roll	
13	1	00590-04471-71	Pin	
14	1	00590-04473-71	Screw	
15	AR	00590-40126-71	Shim	
	AR	00590-05130-71	Shim	
	AR	00590-05131-71	Shim	
16	4	00590-04464-71	Bearing	R
17	10	00590-03673-71	Fitting, Grease	
18	1	00590-04468-71	Arm, Outer Right	
19	4	00590-03687-71	Screw	
20	4	00590-04467-71	Cap	
21	4	00590-05141-71	Bearing, Roller	R
22	4	00590-04466-71	Bearing, Thrust	R
23	2	00590-04465-71	Bearing	R
24	1	00590-04987-71	Arm, Inner	
25	3	00590-40131-71	Shim	
	3	00590-05142-71	Shim	
26	1	00590-04470-71	Nut	
27	1	00590-40061-71	Cylinder Assembly, Right Hand (See Figure 6-4.)	
	1	00590-04392-71	Cylinder Assembly, Left Hand (See Figure 6-4.)	
28	1	00590-03684-71	Screw	
29	1	00590-03976-71	Cap, Bearing	
30	6	00590-05124-71	Bearing	R
31	2	00590-03694-71	Washer, Shim	
	2	00590-40127-71	Washer, Shim	
32	1	00590-39666-71	Frame, Rear	
33	1	00590-04474-71	Screw	
34	1	00590-04472-71	Pin	
35	1	00590-04469-71	Arm, Outer Left	

A= w/Sideshift
B= w/o Sideshift
R= Recommended Spare

List 7-4: Reach Assembly - 6BRU23 (Sheet 1 of 3)

Reach Assembly - 6BRU23

FIGURE 7-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
36	1	00590-03659-71	Screw	
37	1	00590-40132-71	Clamp	
38		00590-40133-71	Bracket, Hose	
39	2	00590-03689-71	Bolt	
40	1	Ref.	Manifold (w/o Sideshift)	B
	1	00590-39924-71	Manifold (w/Sideshift)	A
41	1	00590-04303-71	Cover, Valve	
42	2	00590-03820-71	Screw	
43	1	00590-04055-71	Clamp	
44	4	00590-04062-71	Clamp	
45	2	00590-40134-71	Screw	
46	2	00590-03923-71	Nut	
47	1	00590-04428-71	Clamp, Bracket	
48	1	00590-04429-71	Clamp, Bracket	
49	2	00590-40135-71	Washer, Lock	
50	1	00590-05119-71	Nut	
51	3	00590-40136-71	Washer	
52	1	00590-40137-71	Clamp, Plate	
53	2	00590-05148-71	Washer, Flat	
54	2	00590-03821-71	Screw	
55	2	00590-40138-71	Clamp	
56	1	00590-40139-71	Bolt, Stacking	
57	1	00590-40140-71	Washer, Safety	
58	1	00590-40141-71	Cover	
59	1	00590-40142-71	Bolt	
60	1	00590-04169-71	Fitting	
61	1	00590-40143-71	Adapter	
62	1	00590-05040-71	Screw	
63	1	00590-05039-71	Fitting	
64	1	00590-40144-71	Hose Assembly	
65	3	00590-40145-71	Hose	
66	1	00590-05060-71	Fitting, Tee	
67	1	00590-40146-71	Screw	
68	1	00590-40147-71	Washer, Flat	
69	1	00590-40148-71	Clamp	
70	1	00590-04485-71	Fitting, Tee	
71	3	00590-04281-71	Adapter	
72	1	00590-03847-71	Strap	
73	1	00590-40149-71	Hose Assembly	
74	1	00590-40150-71	Hose Assembly	
75	1	00590-40151-71	Line Assembly	
76	1	00590-40152-71	Line Assembly	
77	6	00590-04284-71	Adaptor	

A= w/Sideshift

B= w/o Sideshift

R= Recommended Spare

List 7-4: Reach Assembly - 6BRU23 (Sheet 2 of 3)

Reach Assembly - 6BRU23

FIGURE 7-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
78	2	00590-04406-71	Hose Assembly	
79	1	00590-04408-71	Hose Assembly	
80	1	00590-04407-71	Hose Assembly	
81	2	00590-04283-71	Fitting, Straight	
82	2	00590-04285-71	Elbow	
83	2	00590-04390-71	Line Assembly	
84	2	00590-05089-71	Hose	
85	1	00590-04282-71	Adapter	
86	1	00590-04268-71	Tube	
87	1	00590-03670-71	Screw	
88	1	00590-03652-71	Washer, Flat	
89	1	00590-03787-71	Screw	
107	1	00590-04224-71	Harness, Single Reach	
108	1	00590-04210-71	Coil, Simulator (Not Shown)	
109	1	00590-03847-71	Strap, Tie (Not Shown)	

A= w/Sideshift

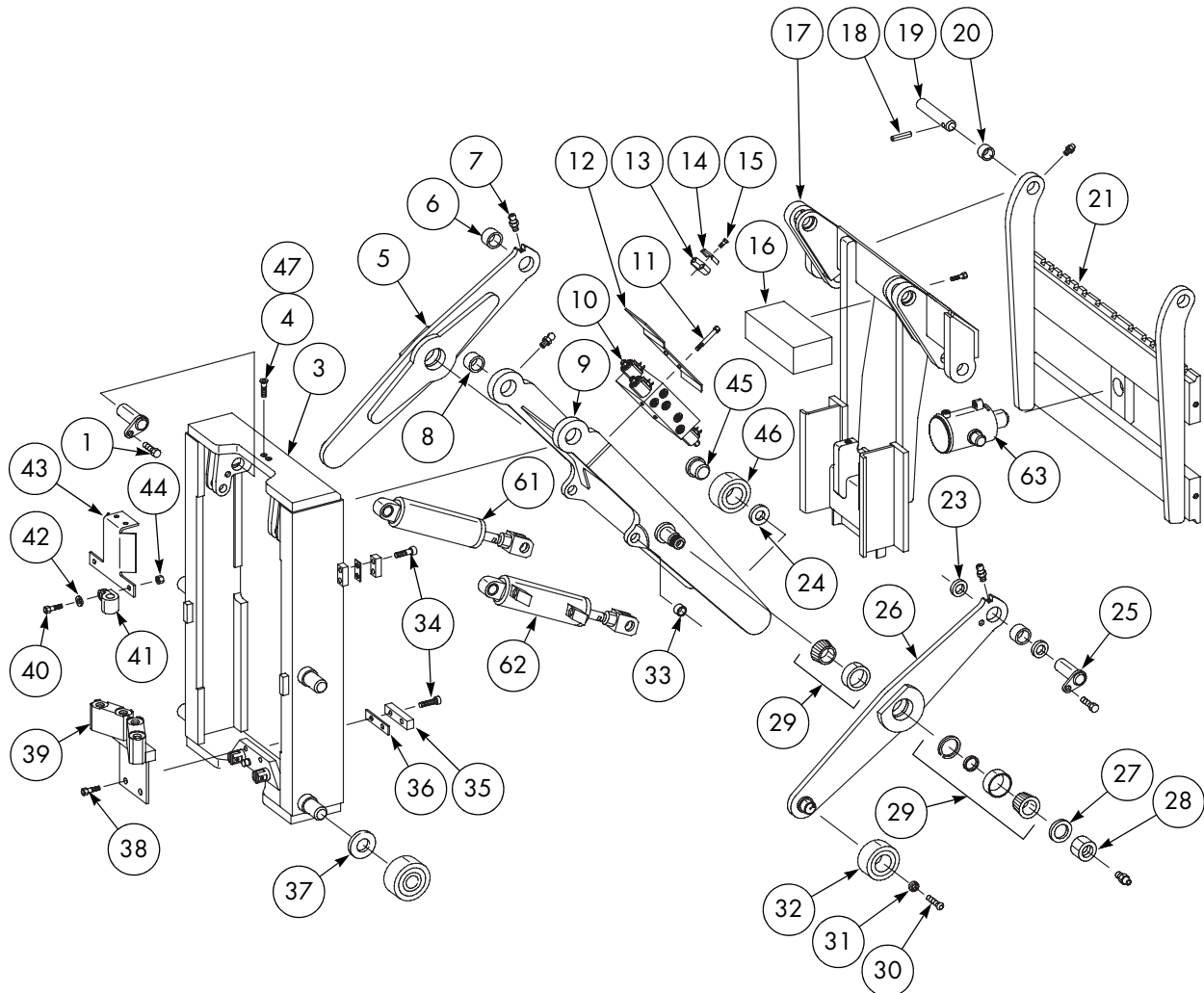
B= w/o Sideshift

R= Recommended Spare

List 7-4: Reach Assembly - 6BRU23 (Sheet 3 of 3)

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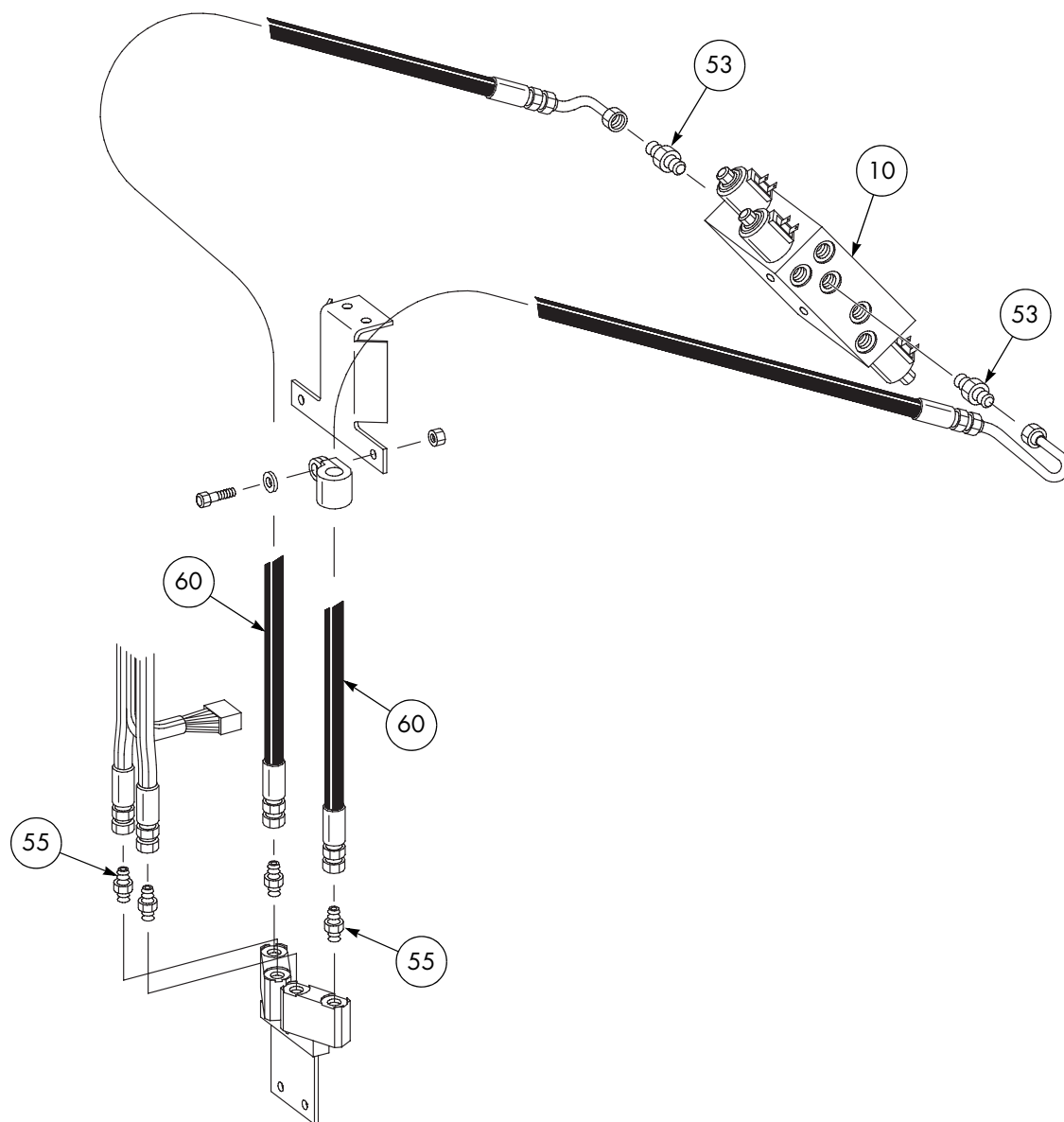
Reach Assembly - 6BRU18



7241-002

Figure 7-5a: Reach Assembly - 6BRU18

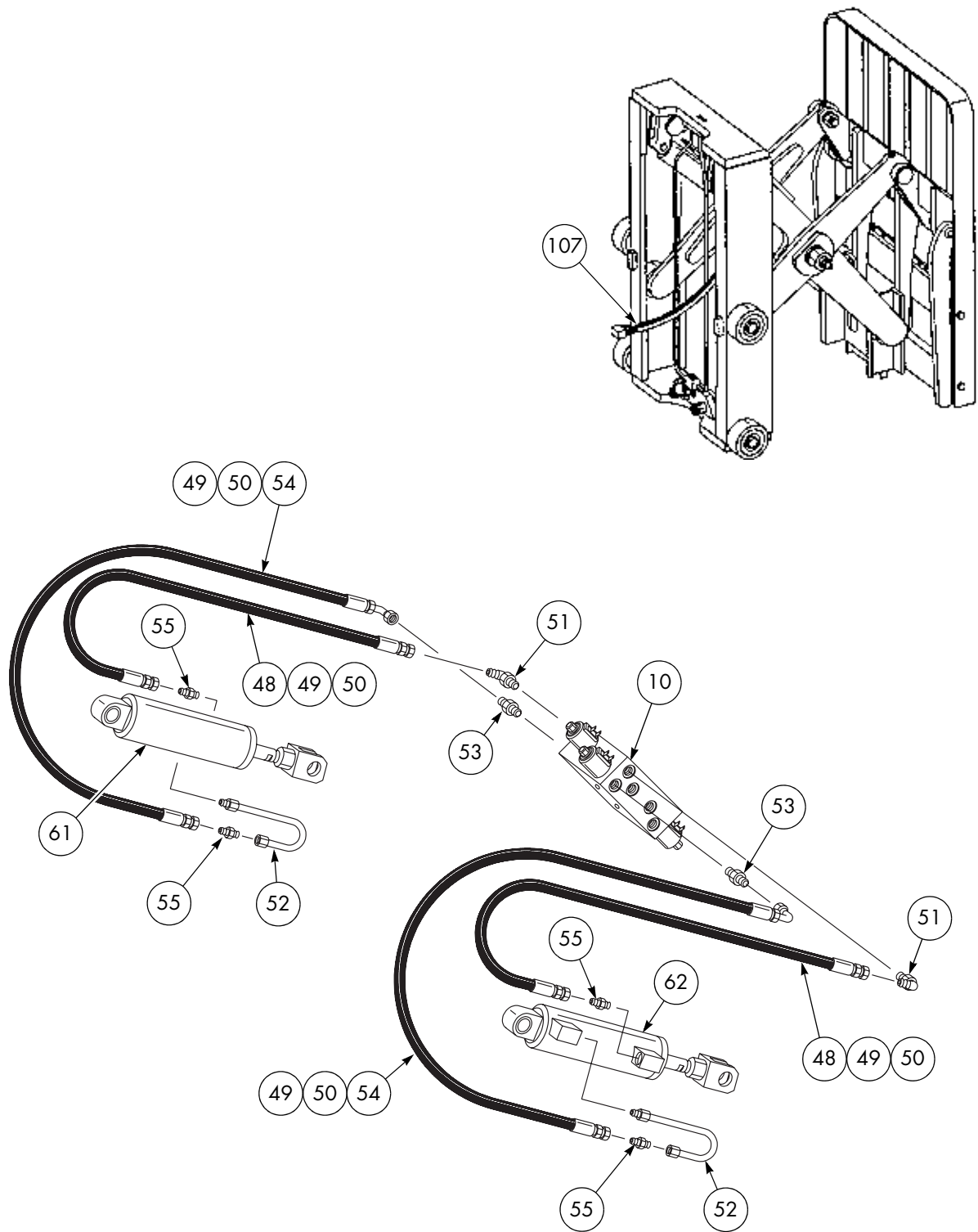
Reach Assembly - 6BRU18



6126-200

Figure 7-5b: Reach Assembly - 6BRU18

Reach Assembly - 6BRU18



6129-000

Figure 7-5c: Reach Assembly - 6BRU18

Reach Assembly - 6BRU18

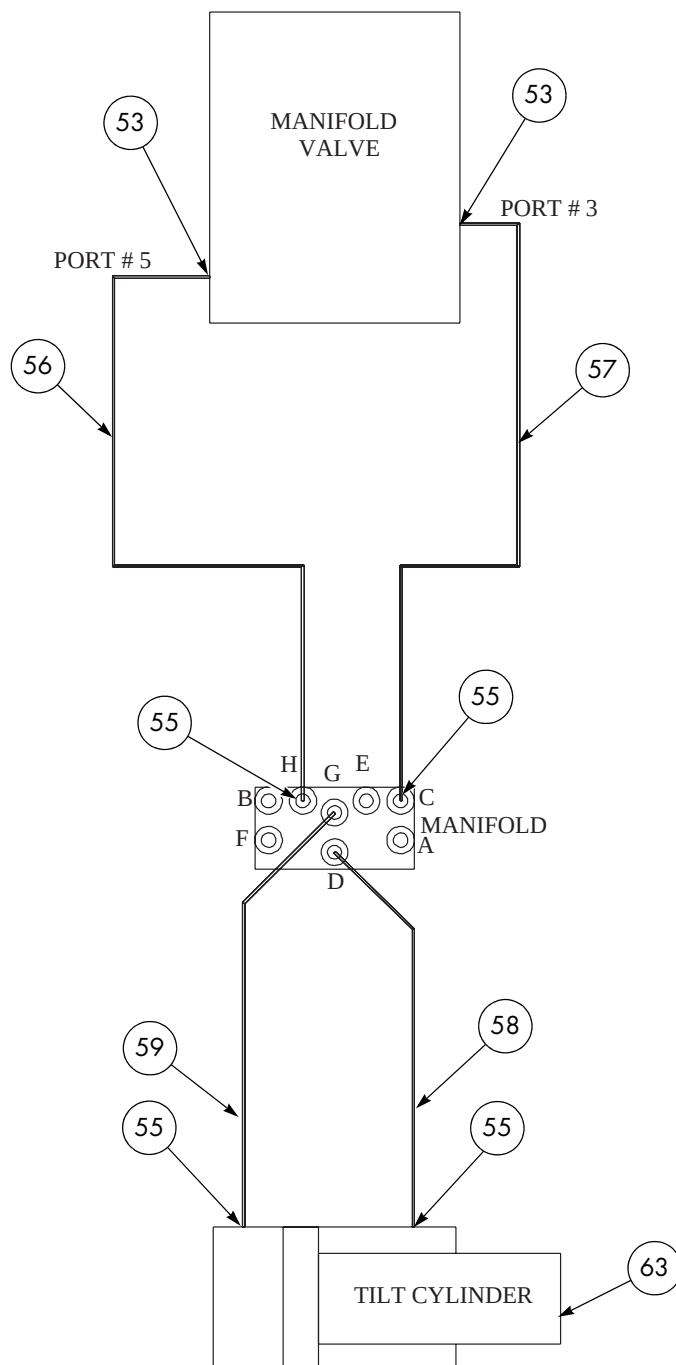


Figure 7-5d: Reach Assembly - 6BRU18

6127-200

FIGURE 7-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	00590-03805-71	Screw	
3	1	00590-04386-71	Frame Weldment, Rear	
4	1	00590-03839-71	Screw	
5	1	00590-42152-71	Arm Weldment, Left	
6	1	00590-05139-71	Bushing	R
7	4	00590-03673-71	Fitting, Grease	
8	1	00590-05135-71	Bushing	R
9	1	00590-04412-71	Arm Weldment, Inner	
10	1	Ref.	Manifold (w/o Sideshift)	B
	1	00590-39924-71	Manifold (w/Sideshift)	A
11	1	00590-03820-71	Screw	
12	1	00590-04159-71	Cover, Valve	
13	1	00590-04055-71	Clamp	
14	1	00590-04062-71	Plate, Cover	
15	1	00590-03838-71	Screw	
16	1	00590-04190-71	Manifold	
17	1	00590-04411-71	Frame Assembly, Forward	
18	1	00590-03662-71	Pin, Spring	
19	1	00590-04413-71	Pin, Tilt Frame	R
20	1	00590-05137-71	Bushing	R
21	1	00590-04385-71	Fork Bar Weldment	
23	2	00590-04192-71	Washer, Thick	
	2	00590-04193-71	Washer, Thin	
24	1	00590-03902-71	Washer, Lock	
25	2	00590-04384-71	Shaft, Pivot	
26	1	00590-42151-71	Arm Weldment, Right	
27	1	00590-03937-71	Washer, Flat	
28	1	00590-03936-71	Nut	
29	1	00590-03932-71	Bearing Assembly	R
30	1	00590-03919-71	Screw	
31	1	00590-03909-71	Cap	
32	2	00590-05124-71	Bearing	R
33	1	00590-05136-71	Bushing	R
34	1	00590-03659-71	Screw	
35	2	00590-05068-71	Bumper	
36	1	00590-03824-71	Shim 0.120 in.	
	1	00590-03825-71	Shim 0.060 in.	
37	1	00590-03694-71	Washer, Shim	
38	2	00590-03688-71	Screw	
39	1	00590-04056-71	Manifold Weldment	
40	2	00590-03911-71	Screw	
41	1	00590-03776-71	Clamp, Open	
42	2	00590-05149-71	Washer, Flat	
43	1	00590-04057-71	Bracket, Hose	

R= Recommended Spare

List 7-5: Reach Assembly - 6BRU18 (Sheet 1 of 2)

Reach Assembly - 6BRU18

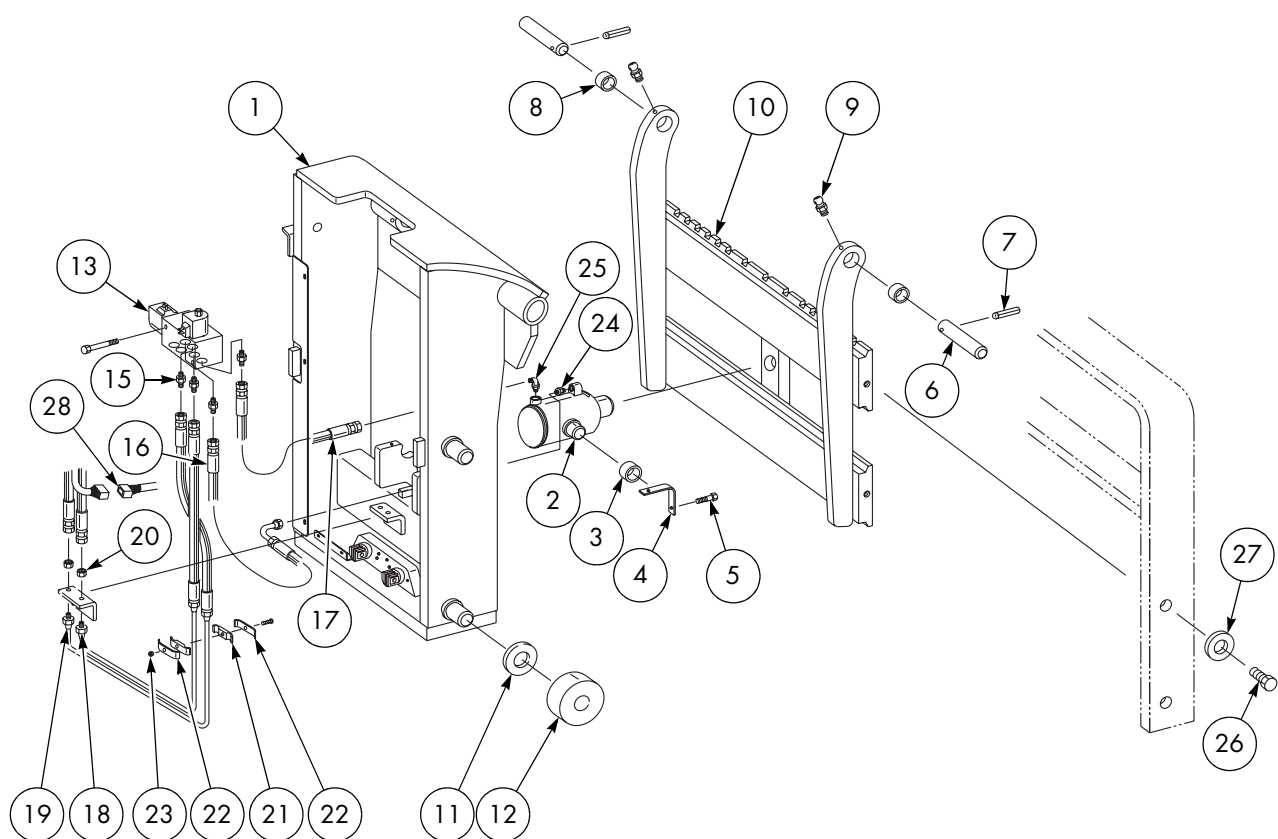
FIGURE 7-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
44	1	00590-03929-71	Nut, Hex, Thin	
45	1	00590-04207-71	Plug, Wear	R
46	1	00590-03815-71	Bearing	R
47	1	00590-03924-71	Nut	
48	2	00590-42274-71	Hose Assembly (includes: Items 49 & 50)	
49	AR	00590-05161-71	Guard, Hose (Not Shown)	
50	4	00590-03848-71	Strap (Not Shown)	
51	2	00590-05111-71	Fitting, Adapter	
52	2	00590-04013-71	Line Assembly	
53	4	00590-05113-71	Fitting, Adapter	
54	2	00590-41949-71	Hose Assembly (includes: Items 49 & 50)	
55	10	00590-05112-71	Fitting	
56	1	00590-04059-71	Hose/Tube Assembly	
57	1	00590-04058-71	Hose/Tube Assembly	
58	1	00590-05107-71	Hose Assembly	
59	1	00590-05108-71	Hose Assembly	
60	2	00590-40153-71	Hose/Tube Assembly	
61	1	Ref.	Cylinder Assembly, Left (See Figure 6-3.)	
62	1	Ref.	Cylinder Assembly, Right (See Figure 6-3.)	
63	1	00590-04422-71	Cylinder Assembly (See Figure 6-6.)	
107	1	00590-04224-71	Harness, Single Reach	
108	1	00590-04210-71	Coil, Simulator (Not Shown)	
109	1	00590-03847-71	Strap, Tie (Not Shown)	

R= Recommended Spare

List 7-5: Reach Assembly - 6BRU18 (Sheet 2 of 2)

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Straddle Carriage Assembly - 6BSU20



308569-1

Figure 7-6: Straddle Carriage Assembly - 6BSU20

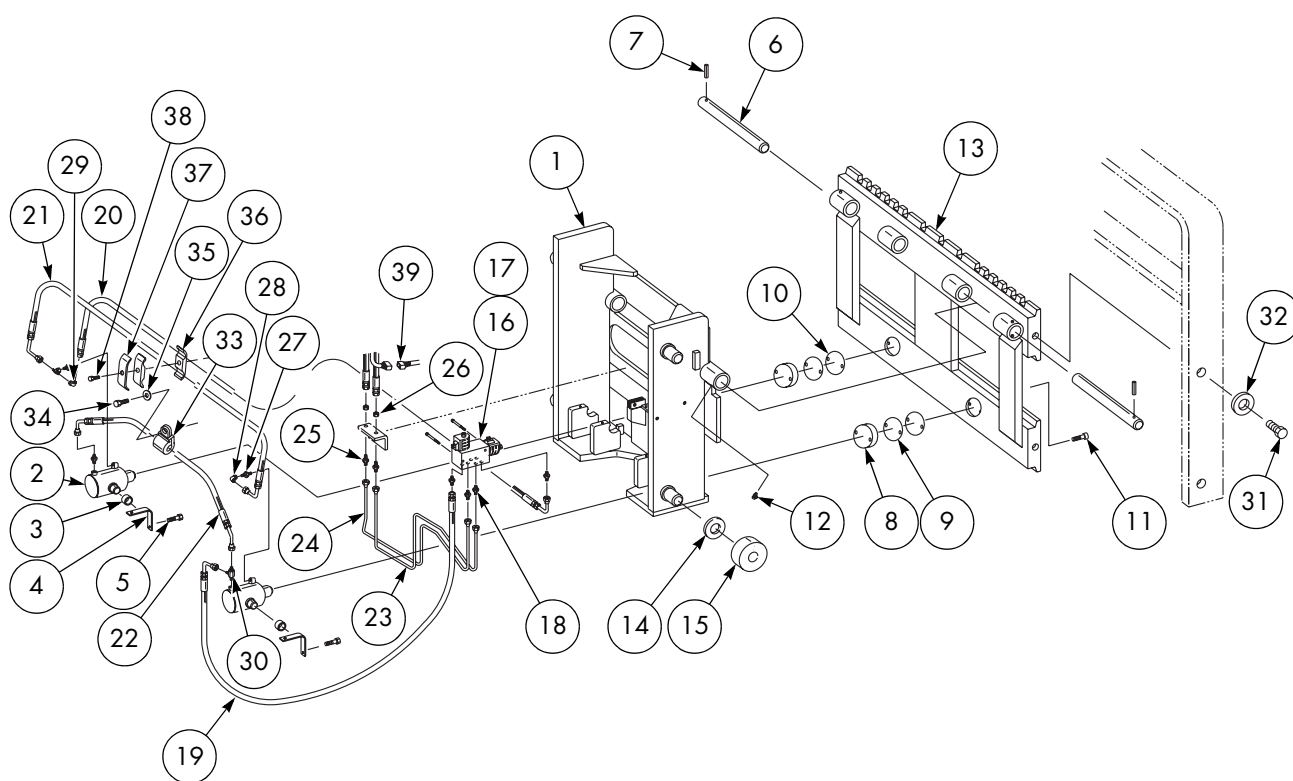
Straddle Carriage Assembly - 6BSU20

FIGURE 7-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-40155-71	Frame, Rear Weldment	
2	1	00590-04422-71	Cylinder Assembly, Tilt (See Figure 6-6.)	
3	2	00590-05138-71	Bushing	R
4	2	00590-03903-71	Retainer, Cylinder	
5	4	00590-40156-71	Screw	
6	2	00590-40157-71	Pin, Tilt Frame	
7	2	00590-40158-71	Pin, Roll	
8	2	00590-05137-71	Bushing	R
9	2	00590-03673-71	Fitting, Grease	
10	1	00590-40159-71	Fork Bar Weldment	
11	4	00590-03691-71	Washer, Shim	
12	4	00590-03816-71	Bearing, Mast Guide	R
13	1	00590-40111-71	Manifold Assembly, Tilt & Sideshift	
	1	00590-40112-71	Manifold Assembly, Tilt Only	
15	4	00590-04284-71	Adapter, Straight	
16	1	00590-40160-71	Hose/Tube Assembly	
17	1	00590-40161-71	Hose/Tube Assembly	
18	1	00590-40162-71	Hose/Tube Assembly	
19	1	00590-40163-71	Hose/Tube Assembly	
20	2	00590-40164-71	Nut	
21	1	00590-04055-71	Clamp	
22	2	00590-04062-71	Cover	
23	2	00590-40165-71	Nut	
24	1	00590-04284-71	Adapter	
25	1	00590-04285-71	Fitting, Elbow	
26	4	00590-40166-71	Screw	
27	4	00590-05150-71	Washer, Flat	
28	1	00590-40167-71	Harness	

R= Recommended Spare

List 7-6: Straddle Carriage Assembly - 6BSU20

Straddle Carriage Assembly - 6BSU25



308575-1

Figure 7-7: Straddle Carriage Assembly - 6BSU25

Straddle Carriage Assembly - 6BSU25

FIGURE 7-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-40169-71	Frame, Rear Weldment	
2	1	00590-40170-71	Cylinder Assembly, Tilt (See Figure 6-6.)	
3	2	00590-05138-71	Bushing	
4	2	00590-03903-71	Retainer, Cylinder	
5	4	00590-40156-71	Screw	
6	2	00590-40171-71	Pin, Tilt Frame	
7	2	00590-40158-71	Pin, Roll	
8	2	00590-40172-71	Retainer, Cylinder	
9	AR	00590-40173-71	Shim	
10	AR	00590-40174-71	Shim	
11	4	00590-39574-71	Screw	
12	2	00590-40175-71	Fitting, Grease	
13	1	00590-40176-71	Fork Bar Weldment	
14	4	00590-03691-71	Washer, Shim	
15	4	00590-03816-71	Bearing, Mast Guide	R
16	1	00590-40111-71	Manifold Assembly, Tilt & Sideshift	
17	1	00590-40112-71	Manifold Assembly, Tilt Only	
18	4	00590-04284-71	Adapter, Straight	
19	1	00590-40177-71	Hose Assembly	
20	1	00590-40178-71	Hose Assembly	
21	1	00590-40179-71	Hose Assembly	
22	1	00590-40180-71	Hose Assembly	
23	1	00590-40181-71	Line Assembly	
24	1	00590-40182-71	Line Assembly	
25	2	00590-40183-71	Fitting, Straight	
26	2	00590-40184-71	Nut	
27	3	00590-04284-71	Adapter	
28	1	00590-04169-71	Adapter	
29	1	00590-40185-71	Tee	
30	1	00590-40186-71	Tee	
31	4	00590-03921-71	Screw	
32	4	00590-05150-71	Washer, Flat	
33	1	00590-40187-71	Clamp	
34	1	00590-03915-71	Screw	
35	4	00590-05148-71	Washer, Flat	
36	1	00590-40188-71	Clamp	
37	1	00590-40189-71	Clamp, Cover Plate	
38	1	00590-03916-71	Screw	
39	1	00590-40167-71	Harness	

R= Recommended Spare

List 7-7: Straddle Carriage Assembly - 6BSU25

Sideshift Installation - 6BSU20

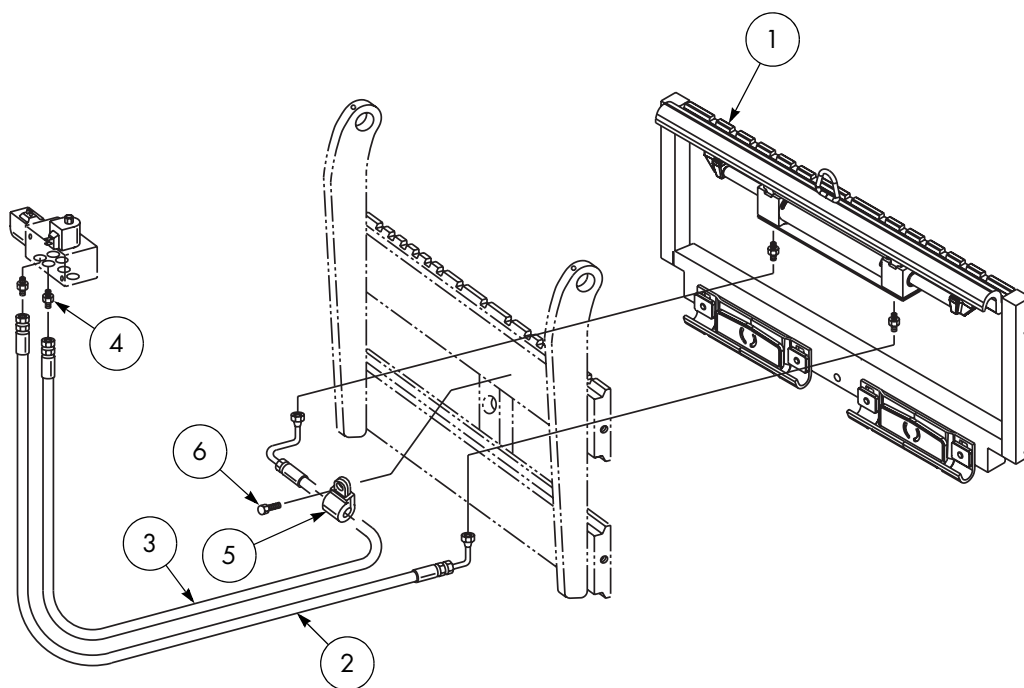


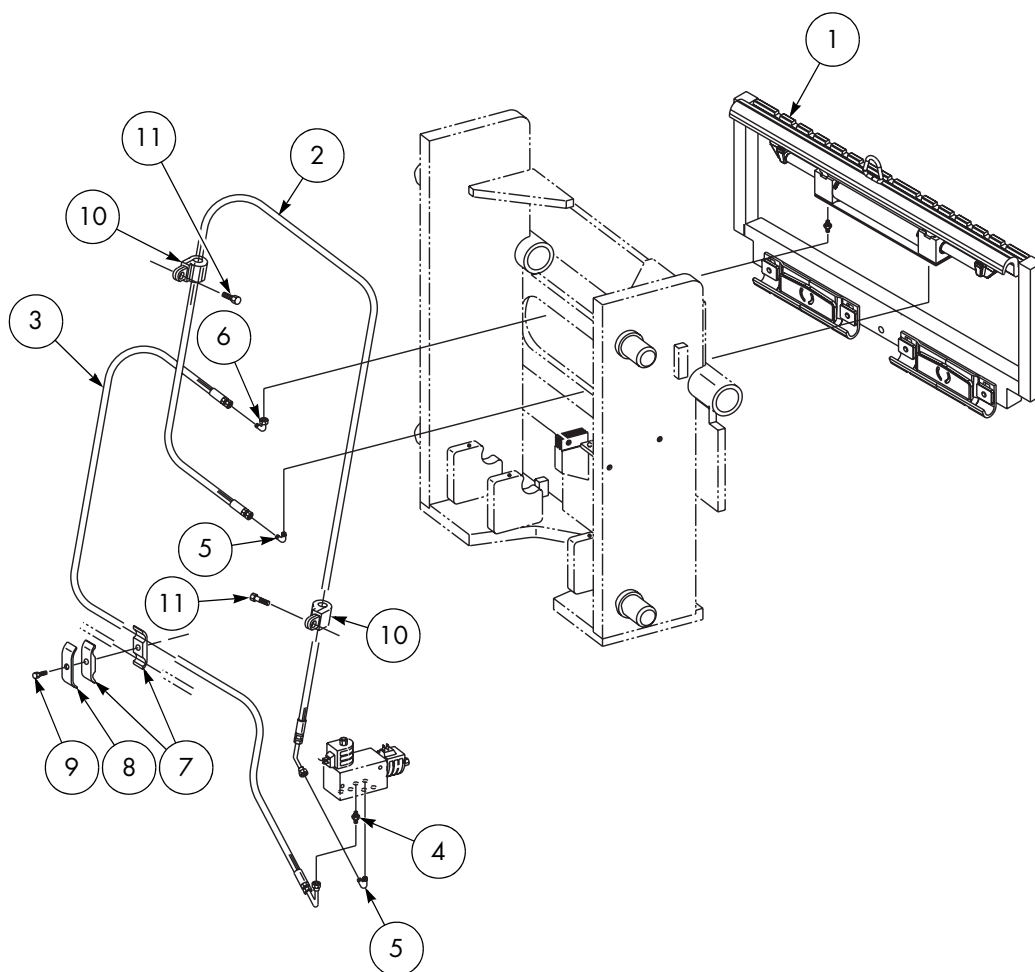
Figure 7-8: Sideshift Installation - 6BSU20

308576-1

FIGURE 7-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Sideshifter (See Figure 7-13.)	
2	1	00590-40191-71	Hose Assembly	
3	1	00590-40192-71	Hose/Tube Assembly	
4	4	00590-04284-71	Adapter	
5	1	00590-03776-71	Clamp, Open	
6	1	00590-40193-71	Screw	

List 7-8: Sideshift Installation - 6BSU20

Sideshift Installation - 6BSU25



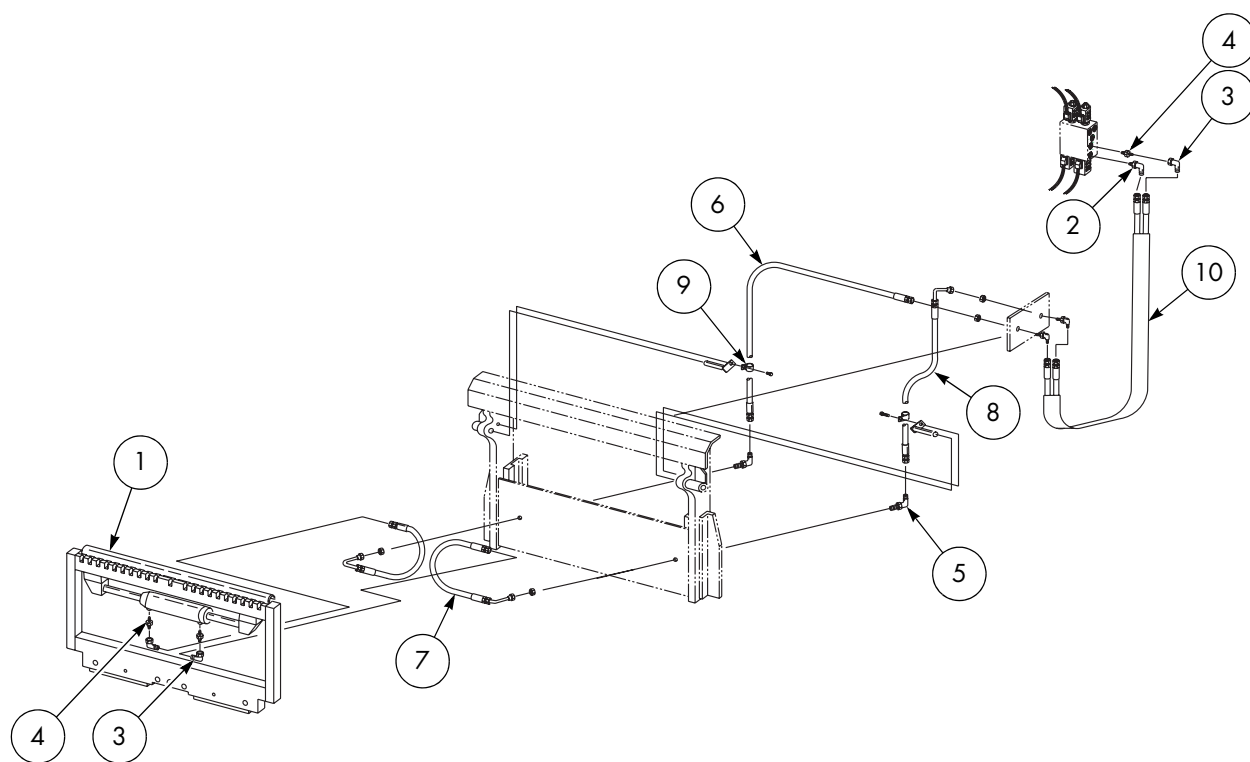
308596-1

Figure 7-9: Sideshift Installation - 6BSU25

FIGURE 7-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Sideshifter (See Figure 7-13.)	
2	1	00590-40195-71	Hose Assembly	
3	1	00590-40196-71	Hose Assembly	
4	2	00590-04284-71	Adapter	
5	2	00590-04286-71	Fitting, Elbow	
6	1	00590-04169-71	Fitting	
7	2	00590-03991-71	Clamp	
8	1	00590-40197-71	Clamp, Cover Plate	
9	1	00590-03916-71	Screw	
10	2	00590-03776-71	Clamp, Open	
11	2	00590-03917-71	Screw	

List 7-9: Sideshift Installation - 6BSU25

Sideshift Installation - 6BDRU15



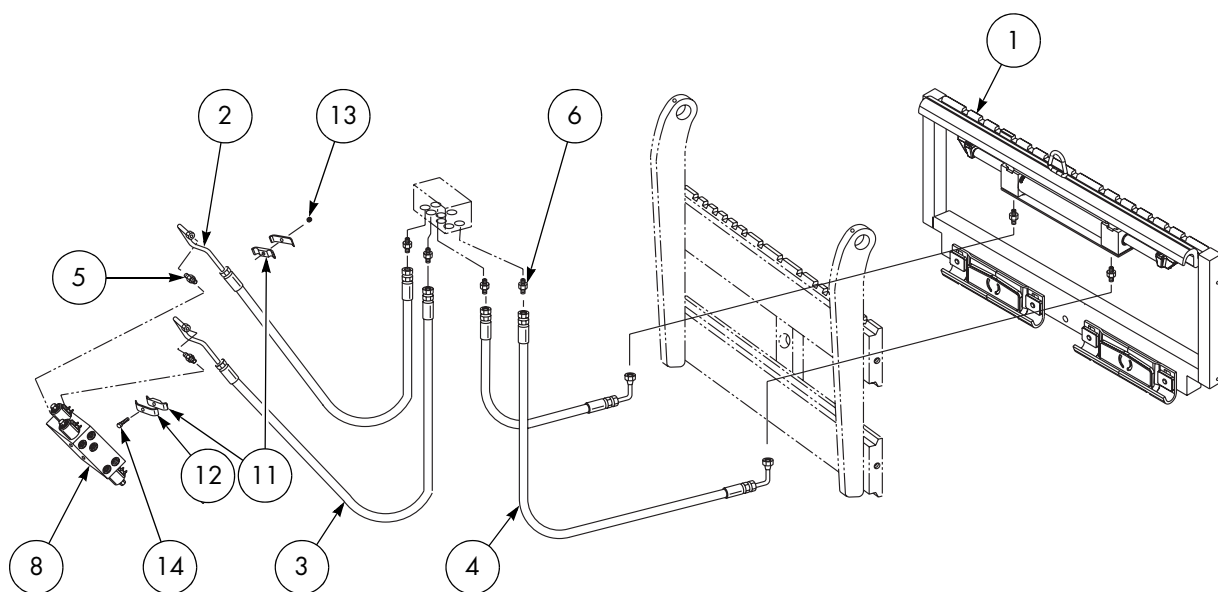
308565-1

Figure 7-10: Sideshift Installation - 6BDRU15

FIGURE 7-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Sideshifter (See Figure 7-13.)	
2	1	00590-04284-71	Adapter	
3	3	00590-04286-71	Fitting, Elbow	
4	3	00590-04169-71	Fitting	
5	4	00590-04042-71	Fitting, Elbow	
6	1	00590-40198-71	Hose Assembly	
7	2	00590-39928-71	Hose Assembly	
8	1	00590-40199-71	Hose Assembly	
9	2	00590-40200-71	Clamp, Open	
10	1	00590-05067-71	Hose Assembly	

List 7-10: Sideshift Installation - 6BDRU15

Sideshift Installation - 6BRU18



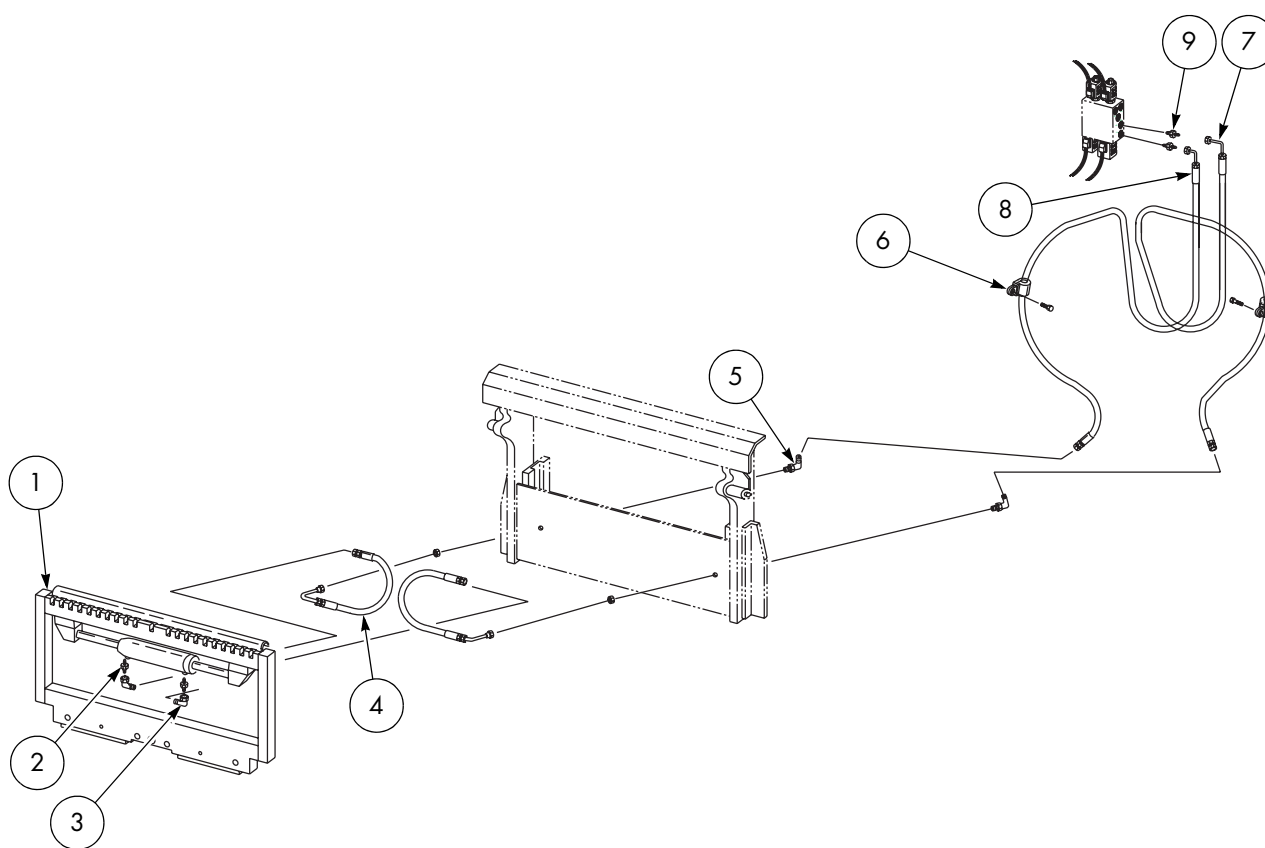
309846-1

Figure 7-11: Sideshift Installation - 6BRU18

FIGURE 7-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Sideshifter (See Figure 7-13.)	
2	1	00590-39930-71	Hose/Tube Assembly	
3	1	00590-39931-71	Hose/Tube Assembly	
4	2	00590-40202-71	Hose Assembly	
5	4	00590-05113-71	Adapter	
6	4	00590-05112-71	Fitting	
7	2	00590-40203-71	Cap (Not Shown)	
8	1	00590-39924-71	Manifold (See Figure 6-14.)	
11	1	00590-04055-71	Clamp	
12	2	00590-04062-71	Cover Plate	
13	1	00590-03923-71	Nut	
14	1	00590-03838-71	Screw	

List 7-11: Sideshift Installation - 6BRU18

Sideshift Installation - 6BRU23



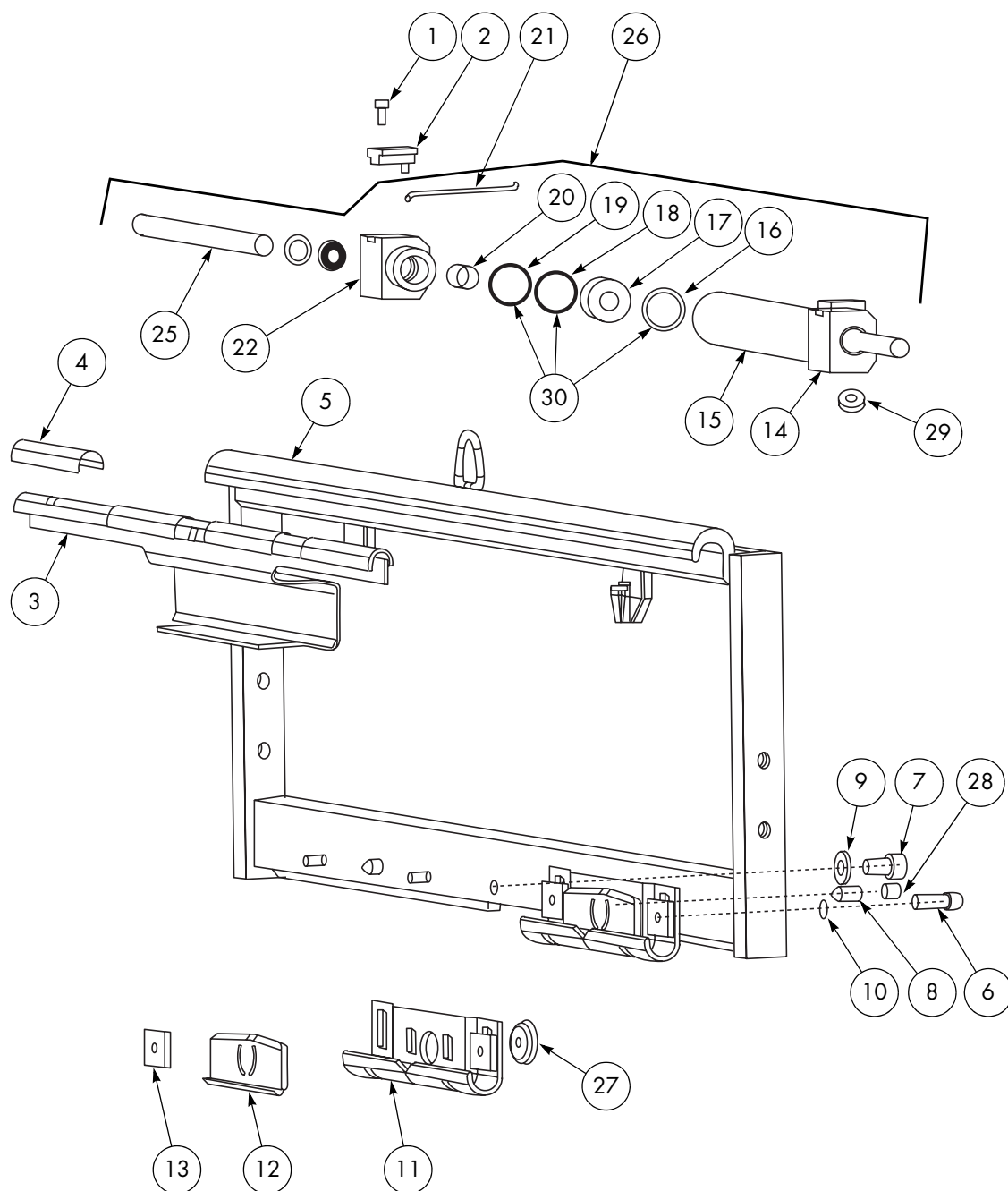
308564-1

Figure 7-12: Sideshift Installation - 6BRU23

FIGURE 7-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Sideshifter (See Figure 7-13.)	
2	2	00590-04284-71	Adapter	
3	1	00590-04169-71	Fitting	
4	2	00590-39928-71	Hose Assembly	
5	4	00590-04042-71	Fitting, Elbow	
6	2	00590-40200-71	Clamp, Open	
7	1	00590-39925-71	Hose/Tube Assembly	
8	1	00590-39926-71	Hose Assembly	
9	2	00590-05113-71	Fitting, Adapter	

List 7-12: Sideshift Installation - 6BRU23

Sideshifter Assembly - Serviceable Parts



7211_002

Figure 7-13: Sideshifter Assembly - Serviceable Parts

Sideshifter Assembly - Serviceable Parts

FIGURE 7-13 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	00590-05211-71	Screw	
2	2	00590-39501-71	Bracket	
3	1	00590-39502-71	Support	
4	4	00590-39503-71	Pad Upper	
5		NSS	Frame, Sideshifter	
6	4	00590-39504-71	Bolt, Lower Hook	
7	1	00590-39505-71	Bolt, Stop	
8	2	00590-39506-71	Screw, Lower Hook	
9	1	00590-39507-71	Washer, Stop Bolt	
10	4	00590-42307-71	Washer, Lower Hook	
11	2	00590-39509-71	Hook, Lower	
12	2	00590-39510-71	Pad, Lower Hook	
13	4	00590-39511-71	Plate, Lower Hook	
14	1	00590-39512-71	Cap, Right	
15	1	00590-39513-71	Body, Cylinder	
16	1	NSS	Seal	D
17	1	00590-39514-71	Piston, 4 in.	A
	1	00590-39515-71	Piston, 6 in.	B
	1	00590-39516-71	Piston, 8 in.	C
18	2	NSS	O-Ring	D
19	2	NSS	Ring	D
20	2	00590-39517-71	Bushing	
21	2	00590-39518-71	Ring, Cylinder, Cap	
22	1	00590-39519-71	Cap, Left Cylinder	
25	1	00590-39520-71	Rod	A
	1	00590-39521-71	Rod	B
	1	00590-39522-71	Rod	C
26	1	00590-39523-71	Cylinder	A
	1	00590-39524-71	Cylinder	B
	1	00590-39525-71	Cylinder	C
27	2	00590-39526-71	Washer	
28	2	00590-39527-71	Screw	
29	2	00590-39528-71	Restrictor, Flow	
30	1	00590-39529-71	Seal Kit	D, E

A= 4 in. Stroke
 B= 6 in. Stroke
 C= 8 in. Stroke
 D= Sold in Kit Only
 E= Cold Storage

List 7-13: Sideshifter Assembly - Serviceable Parts

Fork Assembly

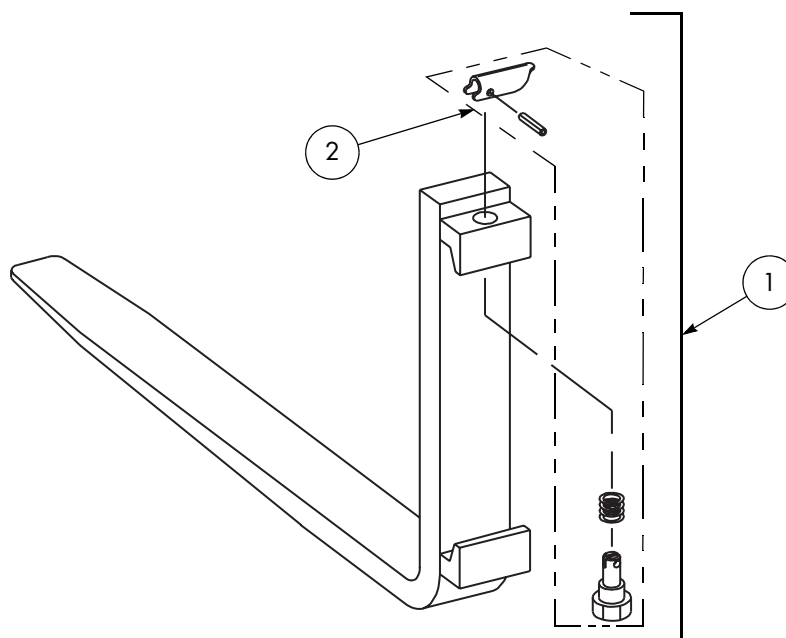


Figure 7-14: Fork Assembly

7411_000

FIGURE 7-14 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1		00590-39531-71	Fork Assembly 30 in.	
		00590-39532-71	Fork Assembly 36 in.	
		00590-39533-71	Fork Assembly 42 in.	
		00590-39534-71	Fork Assembly 48 in.	
		00590-39535-71	Fork Assembly 54 in.	
		00590-39536-71	Fork Assembly 60 in.	
2		00590-39537-71	Pin Assembly	R

R= Recommended Spare

List 7-14: Fork Assembly

Toe Box Assembly

Toe Box Assembly

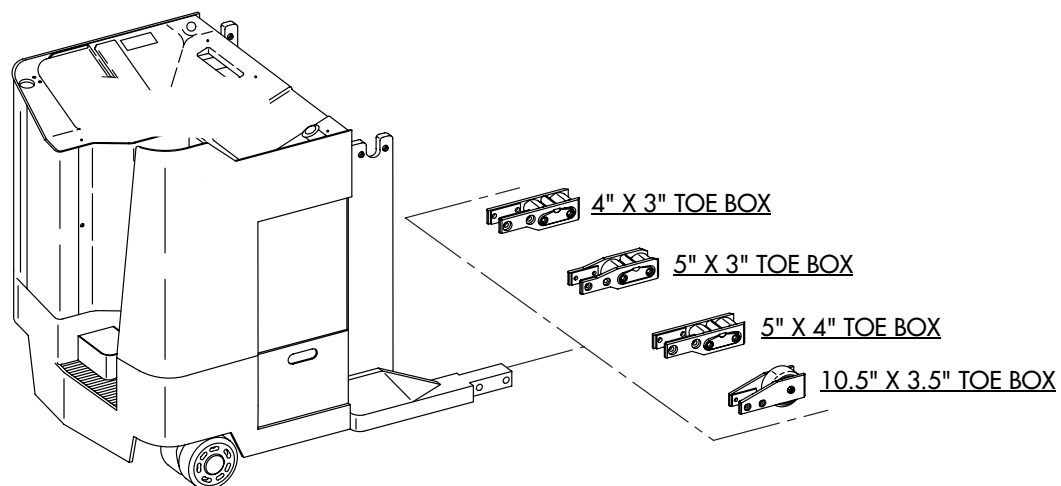
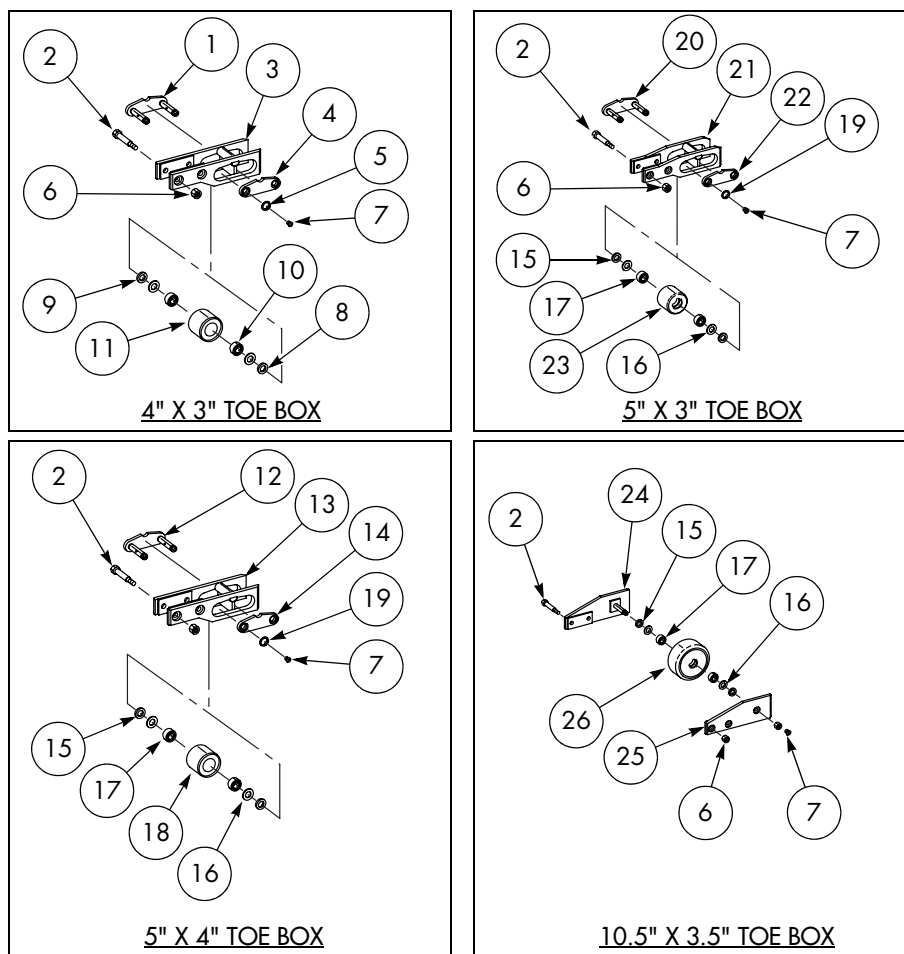


Figure 7-15: Toe Box Assembly

307731_4

FIGURE 7-15 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-05045-71	Axle	A, B
2	4	00590-04024-71	Bolt, Shoulder	C, D, G, H
	4	00590-04025-71	Bolt, Shoulder	A, B, E, F
3	1	00590-04028-71	Toe Box, Weldment	A
	1	00590-04410-71	Toe Box, Weldment	B
4	1	00590-05051-71	Plate, Rocker	A, B
5	1	00590-03701-71	Ring, Retaining	A, B
6	2	00590-03935-71	Nut	
7	4	00590-03672-71	Fitting, Grease	
8	2	00590-03695-71	Washer	A, B
9	2	00590-03696-71	Washer	A, B
10	1	00590-05128-71	Bearing	A, B, R
11	1	00590-05047-71	Wheel, Load	A, B, R
12	1	00590-05042-71	Axle	C, D
13	1	00590-03987-71	Toe Box, Weldment, Closed Toe (Not Shown)	C
	1	00590-04409-71	Toe Box, Weldment, Closed Toe (Not Shown)	D
14	1	00590-05049-71	Plate, Rocker	C, D
15	5	00590-03697-71	Washer	C, D, E, F, G, H
16	6	00590-03698-71	Washer	C, D, E, F, G, H
17	6	00590-05129-71	Bearing	C, D, E, F, G, H, R
18	1	00590-05044-71	Wheel, Load	C, D, R
19	1	00590-03702-71	Pin, Retaining	C, D, E, F
20	1	00590-05043-71	Axle, Weldment	E, F
21	1	00590-04163-71	Toe Box, Weldment	E, F
22	1	00590-05050-71	Plate, Rocker	E, F
23	1	00590-05046-71	Wheel, Load	E, F, R
24	1	00590-04164-71	Toe Box, Weldment, Right Hand	G, H
25	1	00590-04165-71	Toe Box, Weldment, Left Hand	G, H
26	1	00590-04167-71	Wheel Assembly, Load (See Figure 7-16.)	G, H

A= 4 in. x 3 in. (6BRU18/6BRU23/6DRU15)

B= 4 in. x 3 in. (6BSU20/6BSU25) (Closed Toe)

C= 5 in. x 4 in. (6BRU18/6BRU23/6DRU15)

D= 5 in. x 4 in. (6BSU20/6BSU25) (Closed Toe)

E= 5 in. x 3 in. (6BRU18/6BRU23/6DRU15)

F= 5 in. x 3 in. (6BSU20/6BSU25)

G= 10.5 in. x 3.5 in. (6BRU18/6BRU23/6DRU15)

H= 10.5 in. x 3.5 in. (6BSU20/6BSU25)

R= Recommended Spare

List 7-15: Toe Box Assembly

Load Wheel Assembly

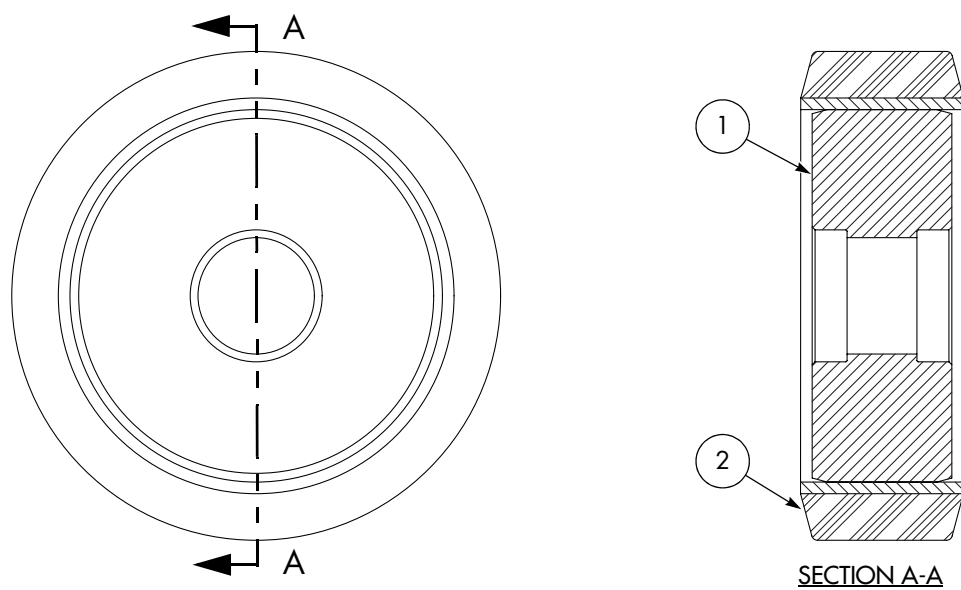


Figure 7-16: Load Wheel Assembly

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Load Wheel Assembly

FIGURE 7-16 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-05048-71	Hub, Wheel	
2	1	00590-04166-71	Tire, 10.5 in. x 3.5 in. Toe Box, 101 Durometer	
	1	00590-05047-71	Tire, 4 in. x 3 in. Closed or Open Toe Box, 92 Durometer	
	1	00590-05044-71	Tire, 5 in. x 4 in. Closed or Open Toe Box, 92 Durometer	
	1	00590-05046-71	Tire, 5 in. x 3 in. Open Toe Box, 95 Durometer	
	1	05090-43701-71	Tire, 5 in. x 3 in. Open Toe Box (Premium), 95 Durometer	

List 7-16: Load Wheel Assembly

Mast Chain Lengths

Mast Chain Lengths

MODEL 6BRU18/6BSU20

	Free Lift			Staging Lift		
Mast Height	Chain P/N	Length [mm]	Length [in]	Chain P/N	Length [mm]	Length [in]
89/192	00590-46683-71	1472	58.00	00590-46635-71	2179	85.75
95/210	00590-40123-71	1542	60.75	00590-46635-71	2179	85.75
107/240	00590-46633-71	1676	66.00	00590-46636-71	2380	93.75
119/270	00590-46634-71	1829	72.00	00590-46637-71	2743	108

MODEL 6BRU23/6BDRU15/6BSU25

	Free Lift			Staging Lift		
Mast Height	Chain P/N	Length [mm]	Length [in]	Chain P/N	Length [mm]	Length [in]
95/210	00590-03751-71	1430	56.38	00590-03753-71	2115	83.25
107/240	00590-03753-71	1582	62.25	00590-46646-71	2420	95.25
114/258	00590-40124-71	1658	65.25	00590-46648-71	2573	101.38
119/270	00590-46641-71	1734	68.25	00590-03754-71	2725	107.25
131/300	00590-46642-71	1893	74.50	00590-46650-71	3030	119.38
143/330	00590-46643-71	2039	80.25	00590-46651-71	3335	131.38
155/360	00590-46644-71	2192	86.38	00590-46652-71	3639	143.25
167/390	00590-46645-71	2344	92.38	00590-46653-71	3944	155.25
172/402	00590-46646-71	2420	95.25	00590-46654-71	4097	161.38

CUT LENGTH TO THE NEAREST FULL PITCH

BL634

3 X 4 LACING
".75" PITCH"

SECTION 8 Options/Kits

Fire Extinguisher Installation 8-2

Load Indicator - 6BRU18/6BSU20 8-4

Load Indicator - 6BRU23/6BDRU15/6BSU25 8-6

Lift Interrupt - 6BRU23/6BDRU15/6BSU25 8-8

Cold Storage Components 8-10

Weight Scale 8-14

Fire Extinguisher Installation

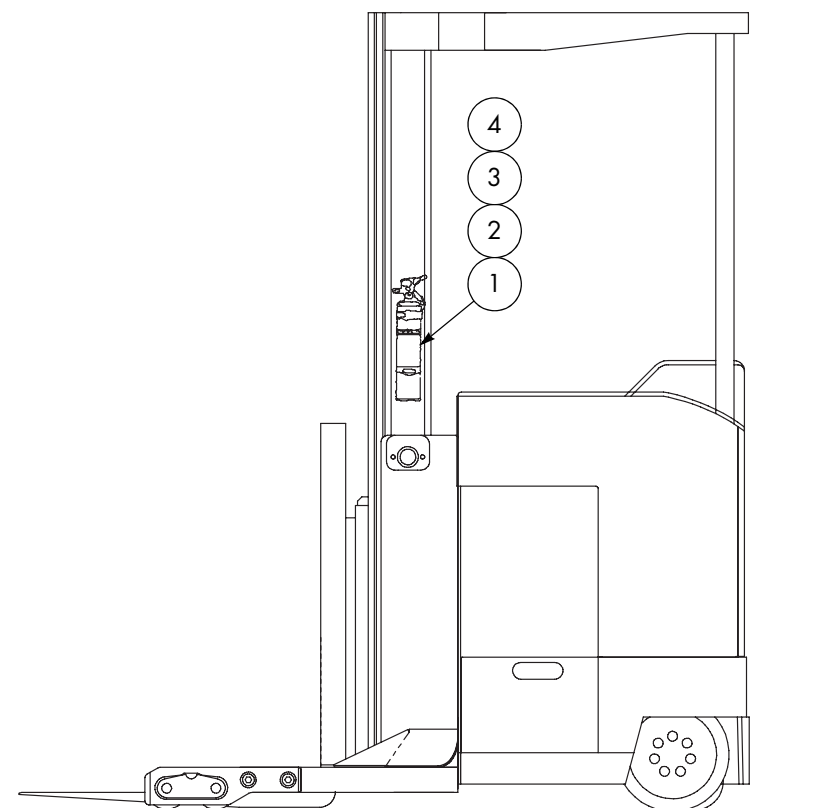


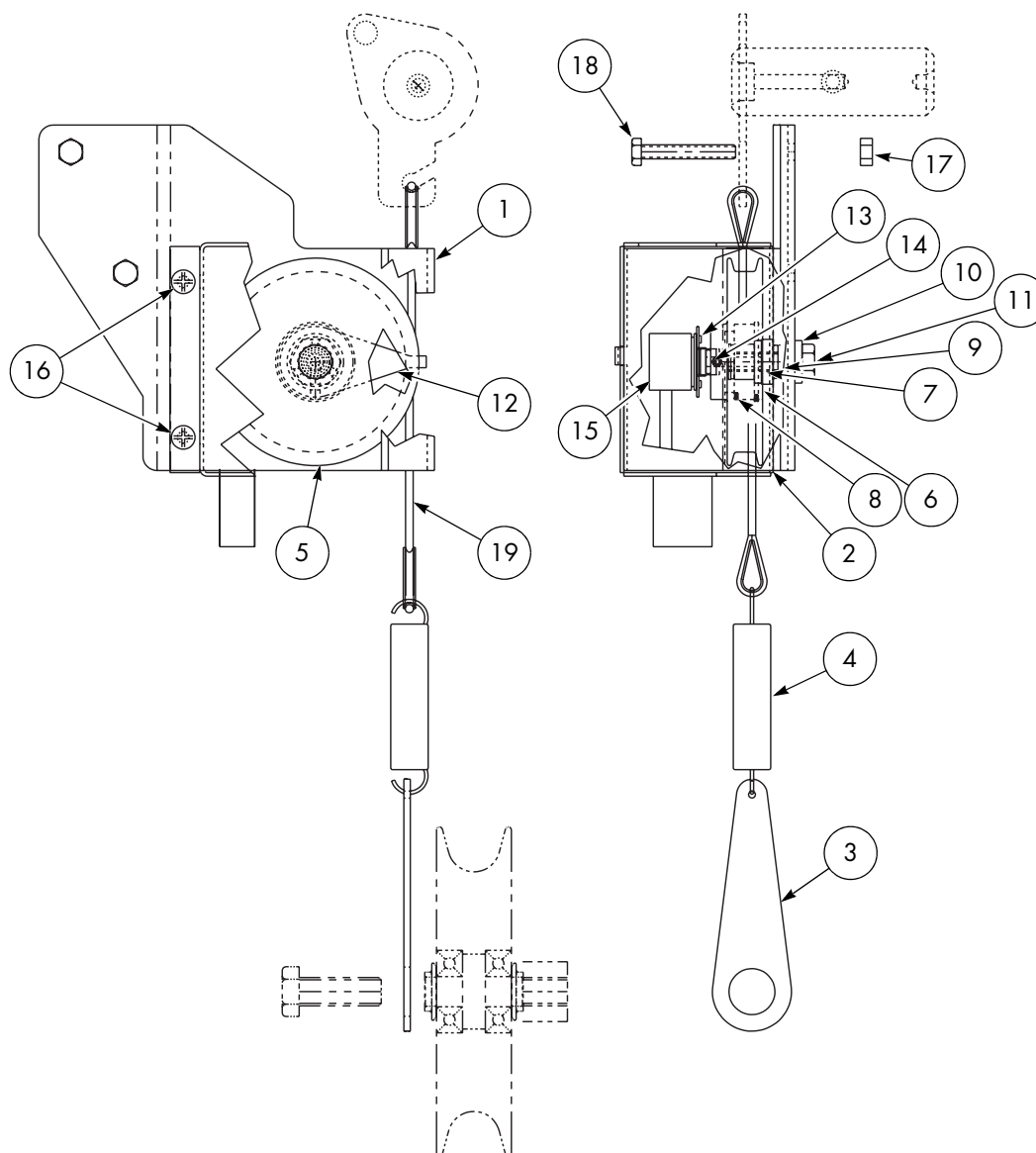
Figure 8-1: Fire Extinguisher Installation

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FIGURE 8-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-40206-71	Fire Extinguisher	
2	1	00590-40207-71	Mounting Plate	
3	3	00590-40208-71	Screw Cap	
4	3	00590-40209-71	Washer, Lock	

List 8-1: Fire Extinguisher Installation

Load Indicator - 6BRU18/6BSU20



9311-000

Figure 8-2: Load Indicator - 6BRU18/6BSU20

FIGURE 8-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-40211-71	Support	
2	1	00590-40212-71	Cover	
3	1	00590-40213-71	Anchor, Bottom	
4	1	00590-40214-71	Spring	
5	1	00590-40215-71	Roller	
6	1	00590-40216-71	Bearing	
7	1	00590-40217-71	Ring, Snap	
8	1	00590-40218-71	Ring, Locking	
9	1	00590-40219-71	Bearing	
10	1	00590-03804-71	Washer	
11	1	00590-03787-71	Screw	
12	1	00590-40220-71	Arm	
13	3	00590-40221-71	Screw	
14	1	00590-40222-71	Screw, Set	
15	1	00590-43849-71	Encoder, Rotary	
16	2	00590-40224-71	Screw	
17	2	00590-03923-71	Nut	
18	2	00590-40225-71	Screw	
19	1	00590-40226-71	Cable, 89/192 Mast	
	1	00590-40227-71	Cable, 95/210 Mast	
	1	00590-40228-71	Cable, 107/140 Mast	
	1	00590-40229-71	Cable, 119/270 Mast	

List 8-2: Load Indicator - 6BRU18/6BSU20

Load Indicator - 6BRU23/6BDRU15/6BSU25

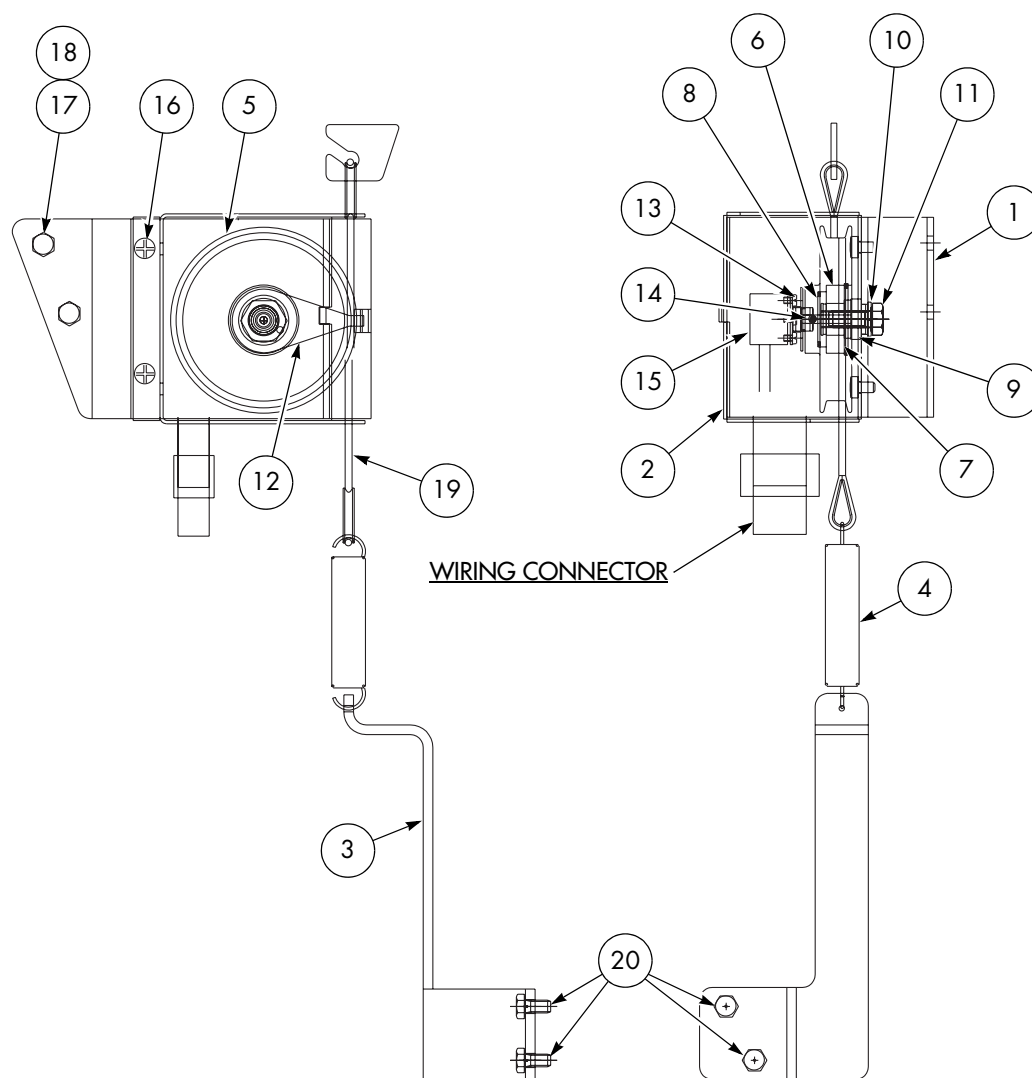


Figure 8-3: Load Indicator - 6BRU23/6BDRU15/6BSU25

9311-100

FIGURE 8-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-40231-71	Support	
2	1	00590-40212-71	Cover	
3	1	00590-40232-71	Anchor, Bottom	
4	1	00590-40214-71	Spring	
5	1	00590-40215-71	Roller	
6	1	00590-40216-71	Bearing	
7	1	00590-40217-71	Ring, Snap	
8	1	00590-40218-71	Ring, Locking	
9	1	00590-40219-71	Bearing	
10	1	00590-03804-71	Washer	
11	1	00590-03787-71	Screw	
12	1	00590-40220-71	Arm	
13	3	00590-40221-71	Screw	
14	1	00590-40222-71	Screw, Set	
15	1	00590-43849-71	Encoder, Rotary	
16	2	00590-40224-71	Screw	
17	2	00590-03923-71	Nut	
18	2	00590-40225-71	Screw	
19	1	00590-40233-71	Cable, 95/210 Mast	
	1	00590-40234-71	Cable, 107/140 Mast	
	1	00590-40235-71	Cable, 114/258 Mast	
	1	00590-40236-71	Cable, 119/270 Mast	
	1	00590-40237-71	Cable, 131/300 Mast	
	1	00590-40238-71	Cable, 143/330 Mast	
	1	00590-40239-71	Cable, 155/360 Mast	
	1	00590-40240-71	Cable, 167/390 Mast	
	1	00590-40241-71	Cable, 172/402 Mast	
20	2	00590-03795-71	Screw	
21	1	00590-40854-71	Harness (Sensor to Height Indicator) (Not Shown)	

List 8-3: Load Indicator - 6BRU23/6BDRU15/6BSU25

Lift Interrupt - 6BRU23/6BDRU15/6BSU25

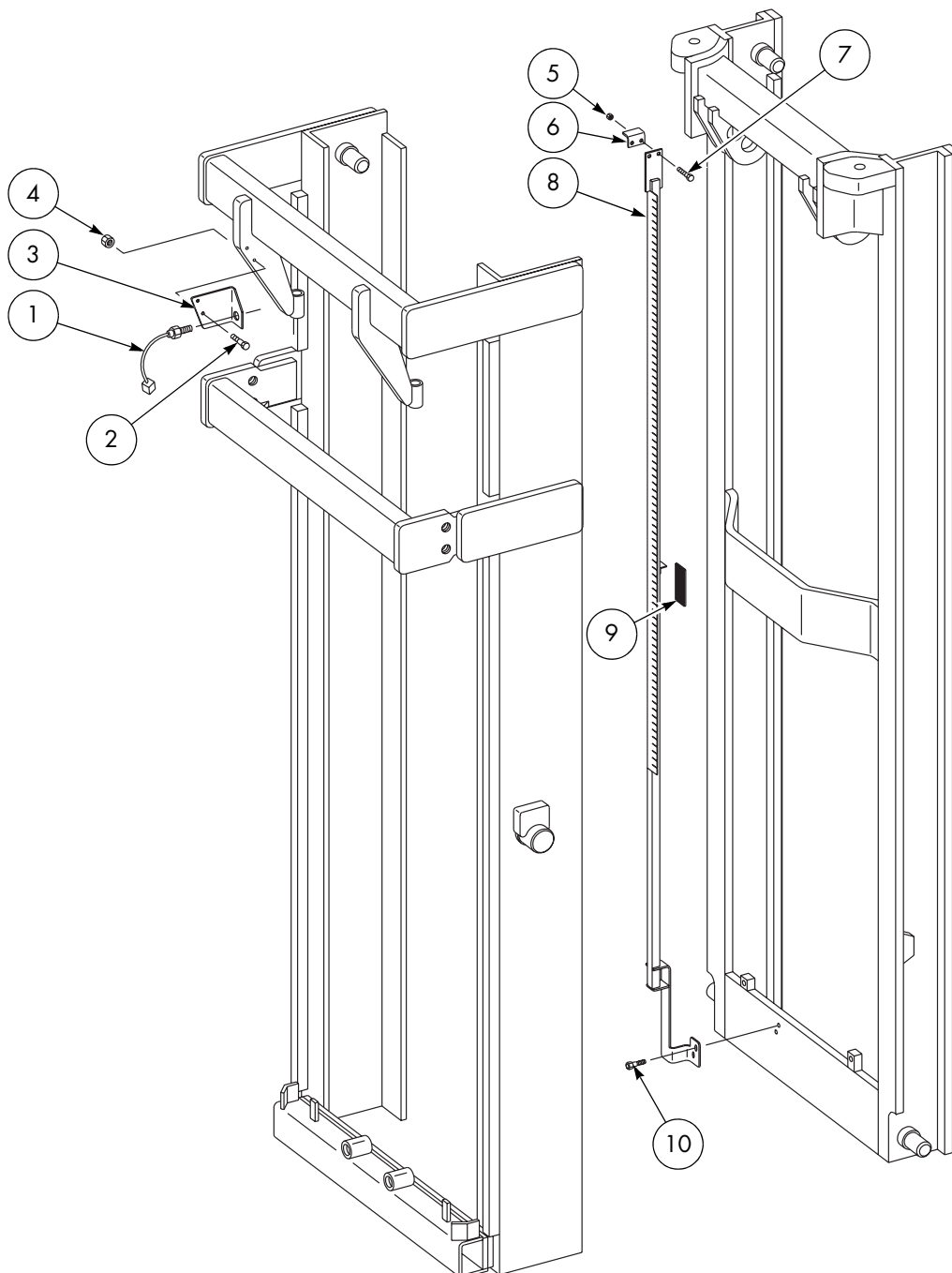


Figure 8-4: Lift Interrupt - 6BRU23/6BDRU15/6BSU25

9311-200

Lift Interrupt - 6BRU23/6BDRU15/6BSU25

FIGURE 8-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-39852-71	Sensor	
2	2	00590-40225-71	Screw	
3	1	00590-40243-71	Bracket, Sensor	
4	2	00590-03923-71	Nut	
5	2	00590-40244-71	Nut	
6	1	NSS	Bracket (Part of Mast Column)	
7	2	00590-03911-71	Screw	
8	1	00590-40245-71	Interrupt, 95/210 Mast	
	1	00590-40246-71	Interrupt, 107/240 Mast	
	1	00590-40247-71	Interrupt, 114/258 Mast	
	1	00590-40248-71	Interrupt, 119/270 Mast	
	1	00590-40249-71	Interrupt, 131/300 Mast	
	1	00590-40250-71	Interrupt, 143/330 Mast	
	1	00590-40251-71	Interrupt, 155/360 Mast	
	1	00590-40252-71	Interrupt, 167/390 Mast	
	1	00590-40253-71	Interrupt, 172/402 Mast	
9	1	00590-40254-71	Cushion	
10	2	00590-03795-71	Screw	

List 8-4: Lift Interrupt - 6BRU23/6BDRU15/6BSU25

Cold Storage Components

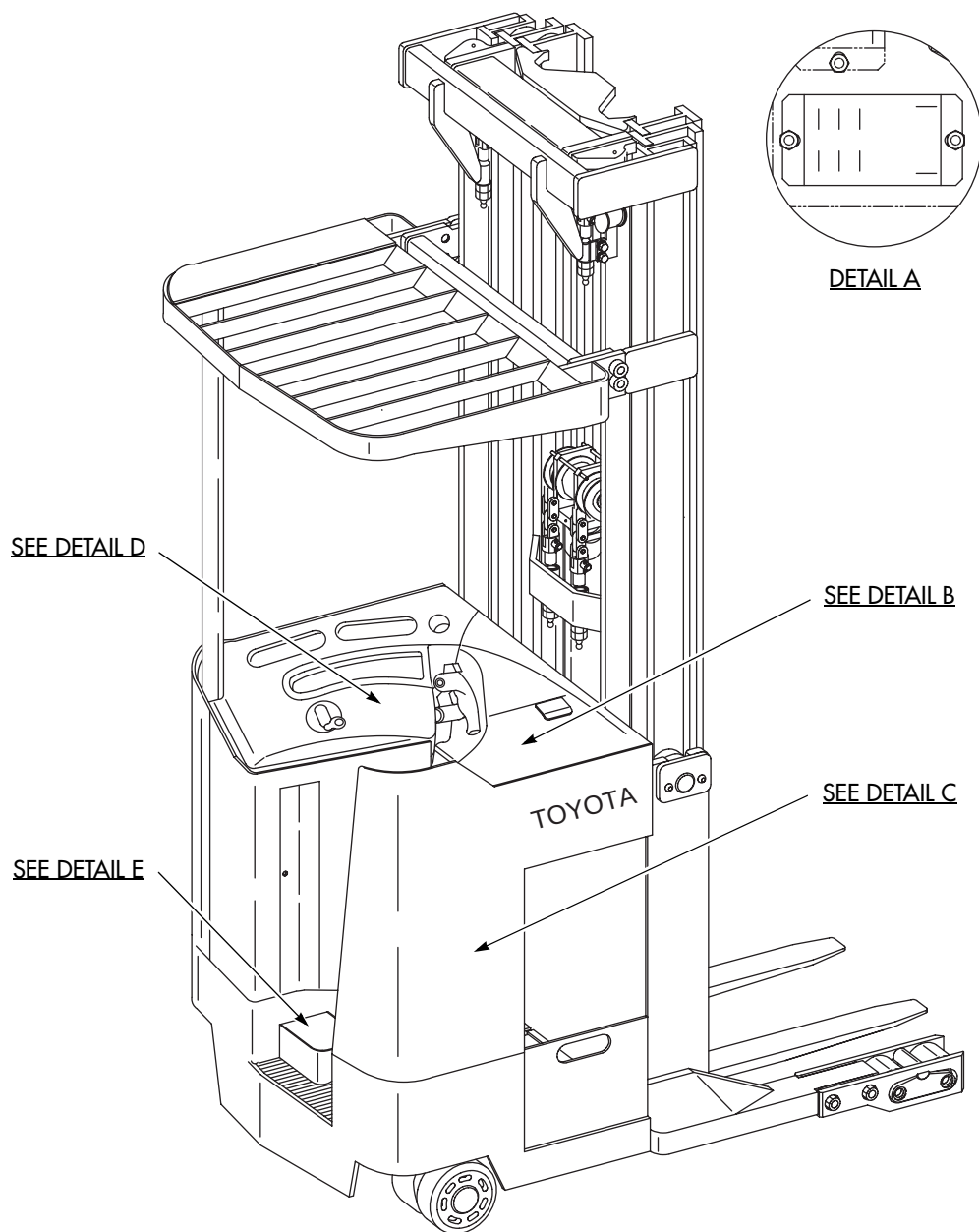
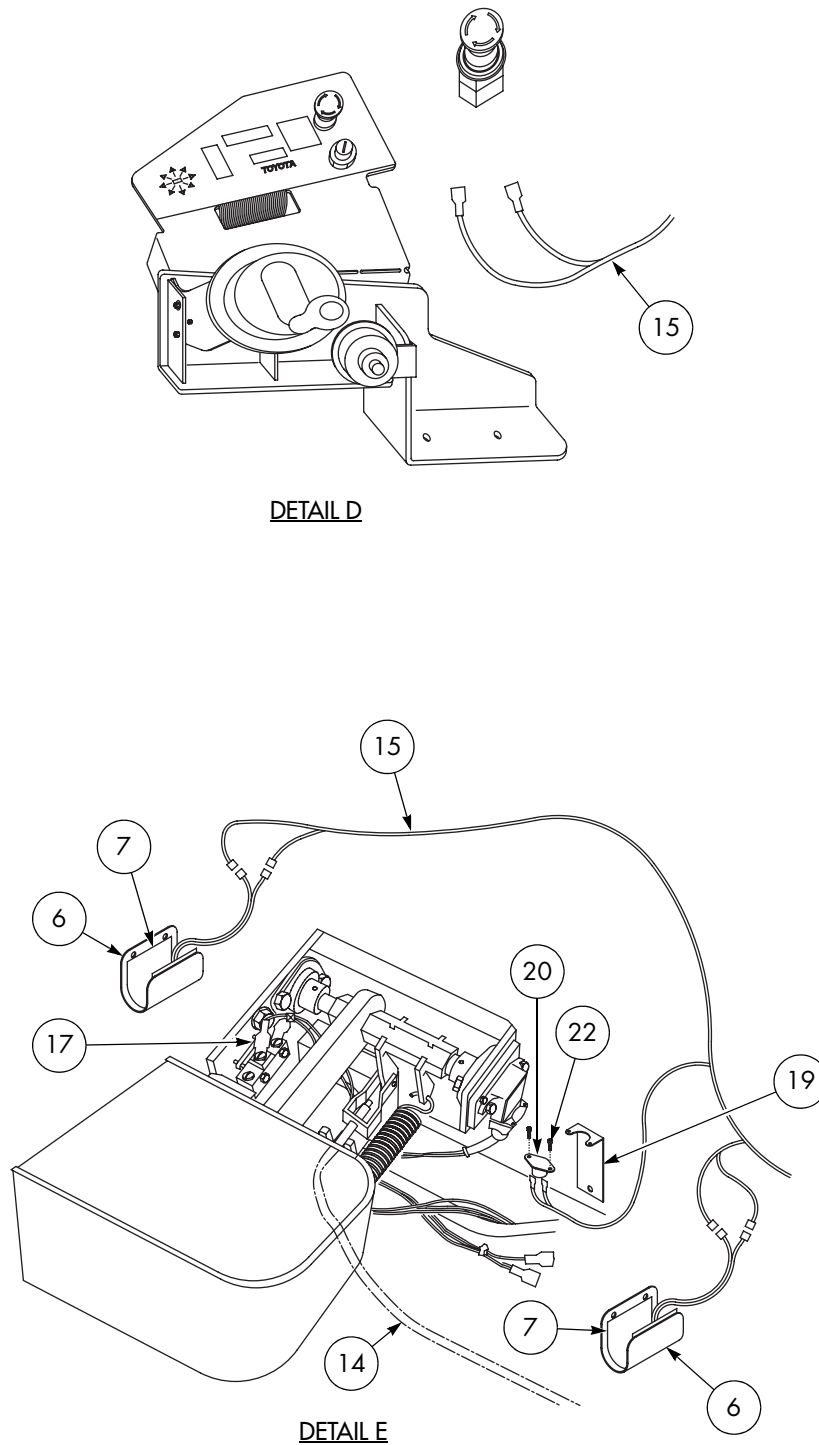


Figure 8-5a: Cold Storage Components

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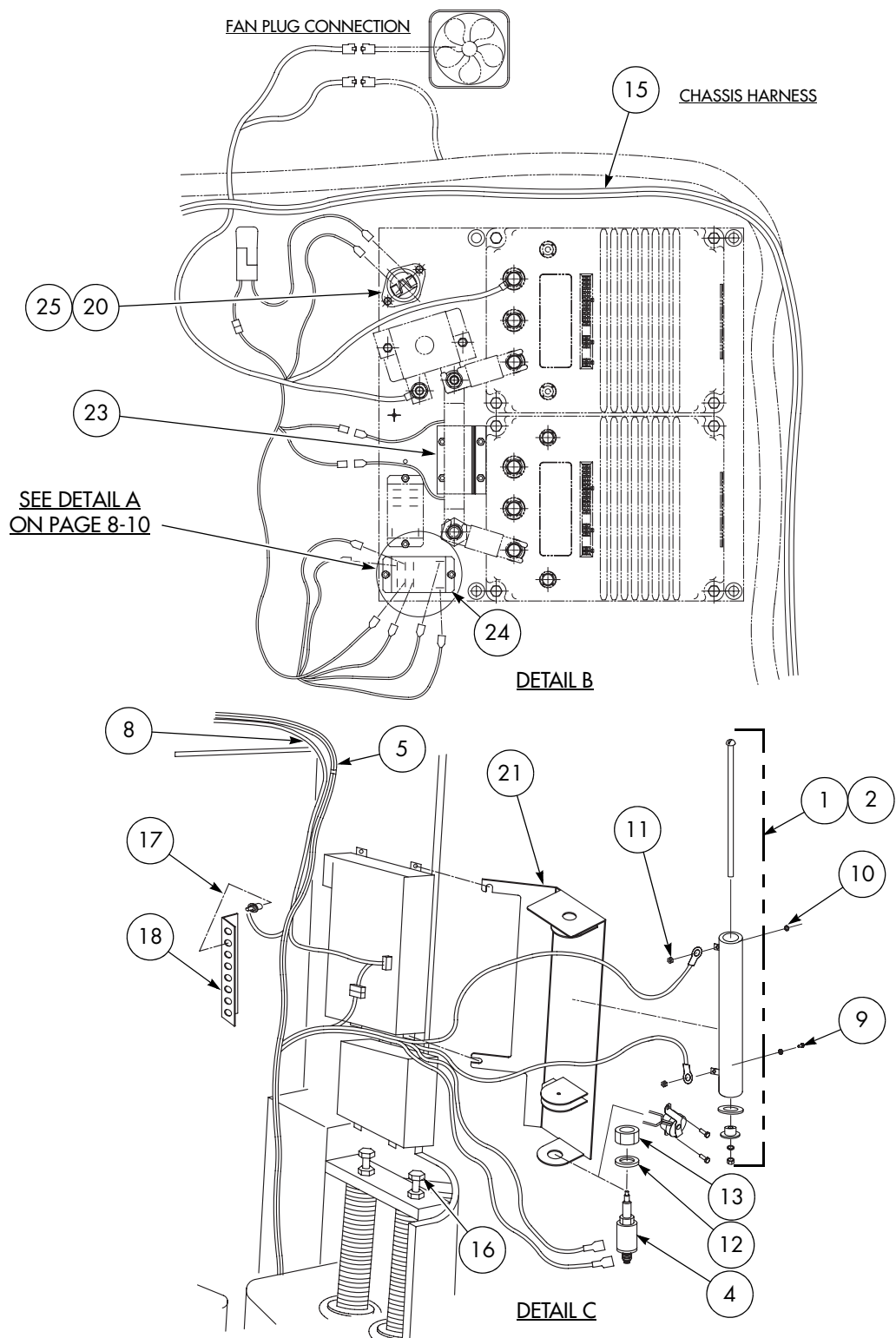
Cold Storage Components



3097571B

Figure 8-5b: Cold Storage Components

Cold Storage Components



3097571C/313622_J

Figure 8-5c: Cold Storage Components

Cold Storage Components

FIGURE 8-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	00590-39855-71	Resistor, Power, 36V	
	1	00590-42140-71	Resistor, Power, 24V	
2	1	00590-39856-71	Bracket, Resistor	
3	4	00590-05121-71	Terminal (Not Shown)	
4	1	00590-40923-71	Switch, Temperature, 36V (Replacement Kit)	
	1	00590-40922-71	Switch, Temperature, 24V (Replacement Kit)	
5	18	00590-39857-71	Strap	
6	2	00590-39858-71	Bracket, Heater	
7	2	00590-39854-71	Heater	
8	1	00590-39635-71	Handle Assembly, Cold Storage (See Figure 5-12.)	
9	2	00590-39859-71	Screw	
10	2	00590-39860-71	Washer	
11	2	00590-39861-71	Nut	
12	1	00590-39862-71	Washer	
13	1	00590-39863-71	Nut	
14	1	00590-04330-71	Cable, Cold Storage	
15	1	00590-39864-71	Harness, Cold Storage	
16	2	00590-39865-71	Screw	
17	1	00590-39866-71	Fuse, 15A	
18	1	00590-39867-71	Fuse Holder	
19	1	00590-39868-71	Bracket, Thermostat	
20	2	00590-39623-71	Thermostat	
21	1	00590-39869-71	Bracket, Heater	
22	2	00590-03914-71	Screw	
23	1	00590-39870-71	Resistor Assembly, 36V	
	1	00590-47057-71	Resistor Assembly, 24V	
24	1	00590-04419-71	Relay, Sealed	A
25	8	00590-03858-71	Screw	
26	1	00590-42142-71	Switch, Thermo (Not Shown)	A

A= S/N's 31450 and up.

List 8-5: Cold Storage Components

Weight Scale

Weight Scale

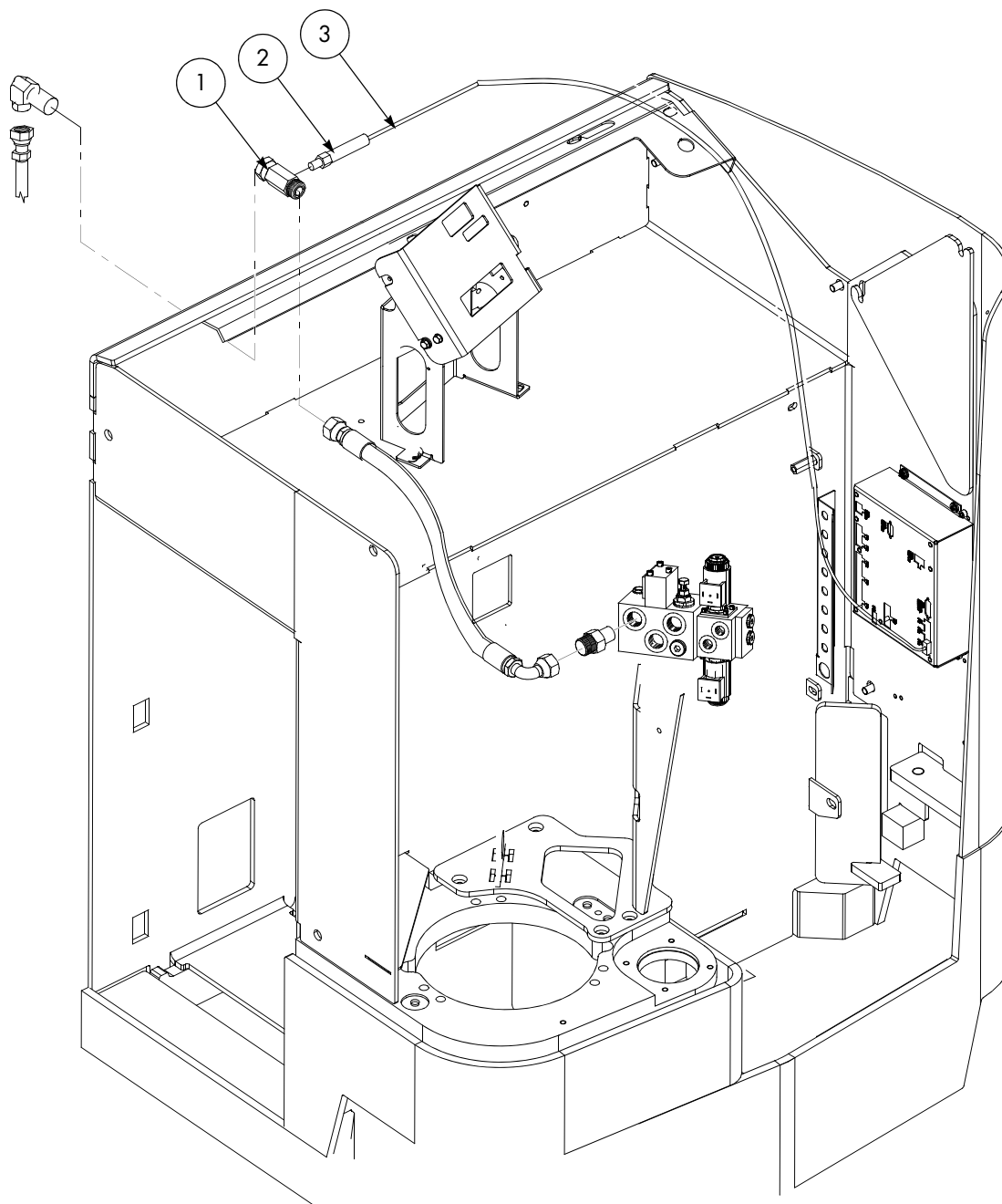


Figure 8-6: Weight Scale

308481_B

FIGURE 8-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	00590-40316-71	Kit, Pressure Transducer	
1	1	00590-46905-71	Fitting, Diagnostic (Jan 2005 On)	
	1	00590-05077-71	Fitting, Diagnostic (July thru Dec 2004)	
2	1	00590-43960-71	Adapter (July thru Dec 2004)	
3	1	00590-43961-71	Pressure Transducer Assembly	

List 8-6: Weight Scale

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Adapter (July 2004)	00590-43960-71 . . .	8-15	Axle.	00590-03733-71 . . .	4-5
Adapter 90°	00590-04447-71 . . .	6-4	Axle.	00590-05042-71 . . .	7-59
Adapter, 90°	00590-04170-71 . . .	6-3	Axle.	00590-05045-71 . . .	7-59
Adapter, 90°	00590-04171-71 . . .	6-3	Backrest, Load 36 in.	00590-03981-71 . . .	2-9
Adapter, Bulkhead	00590-04044-71 . . .	6-3	Backrest, Load 36 in.	00590-04066-71 . . .	2-9
Adapter, Fitting	00590-04219-71 . . .	6-3	Backrest, Load 44 in.	00590-03980-71 . . .	2-9
Adapter, Push On	00590-04048-71 . . .	6-3	Backrest, Load 44 in.	00590-04065-71 . . .	2-9
Adapter, Straight	00590-04047-71 . . .	6-3	Backrest, Load 48 in. (Double Cross Bar)	00590-46929-71 . . .	2-9
Adapter, Straight	00590-04284-71 . . .	7-41	Backrest, Load 48 in.	00590-03982-71 . . .	2-9
Adapter, Straight	00590-04284-71 . . .	7-43	Backrest, Load 48 in.	00590-04067-71 . . .	2-9
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Adapter	00590-04281-71 . . .	7-22	Bar, Hinge Mounting	00590-04215-71 . . .	2-11
Adapter	00590-04281-71 . . .	7-30	Bar, Wear	00590-04483-71 . . .	7-29
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Arm Weldment	00590-04999-71 . . .	7-21	Bearing	00590-03745-71 . . .	4-5
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