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RAYMOND

Parts Manual

Model - 7400 7420 7440
Reach-Fork® Lift Truck
With the *ACR System*™



Series
AA,BA,CA,DA,EA,FA,
AB,BB,CB,DB,EB,FB

Serial Number
09582 and Up

Publication No. 1107605A **Issued: 04 September 2009**

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To Our Customer

To Our Customer

The Part Numbers in this Parts Manual were correct at the time your truck was manufactured. It is our policy to constantly improve our products; part numbers, therefore, may continue to change. When ordering parts, verify part numbers through your Dealer's Parts Manual, 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 Manual

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

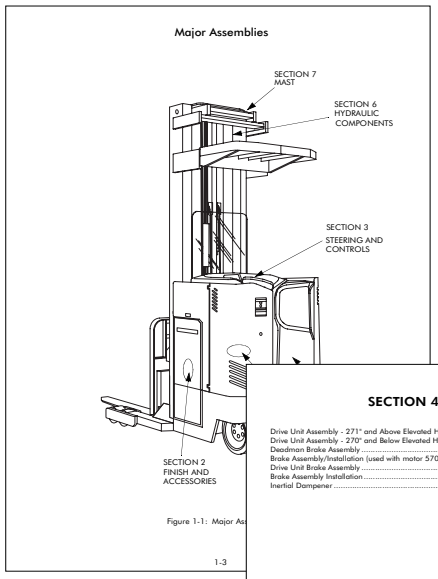
- Use Section 1 to decide where to start your search for information. The overall locator views define the technical configuration of the Manual and tie the figures in the Manual to the engineering database.
- Use the Table of Contents to locate assemblies and subassemblies by name.
- Use the Alphabetical 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 operator stance, battery size, steering type, mast height and extension speed, fork carriages, color and size of tires, lift system type, etc.

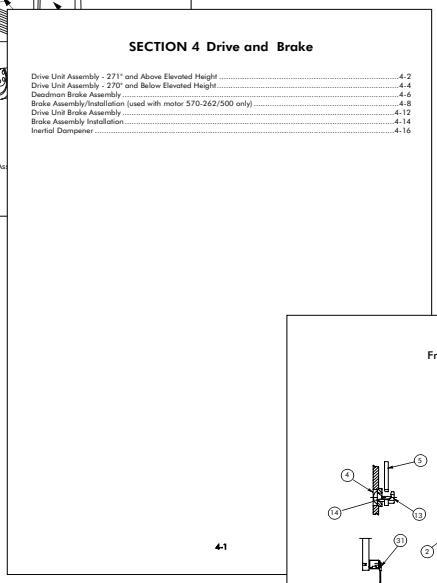
Technical Assistance For Authorized Raymond Dealers Only

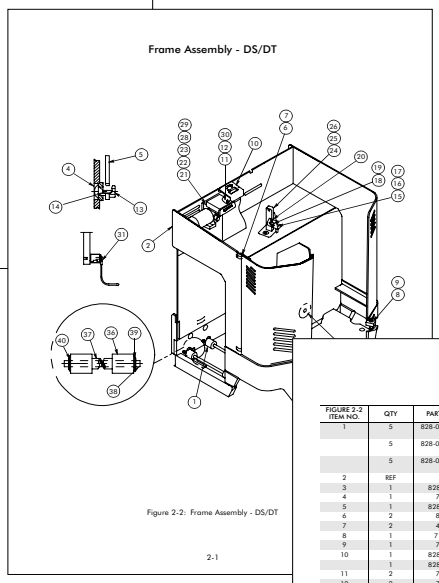
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How to Use Parts Manual - If Part Number is Not Known







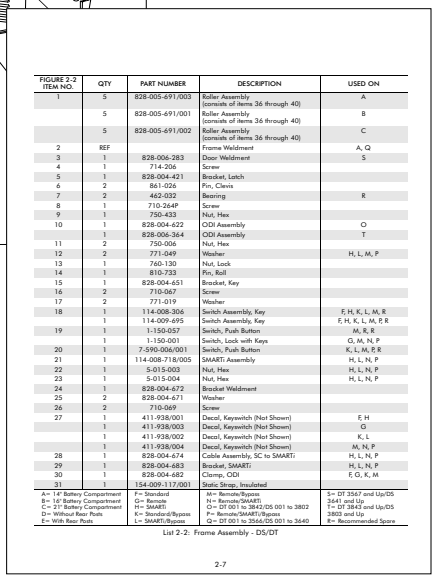


FIGURE 2-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	5	828-005-691/003	Roller Assembly (consists of items 36 through 40)	A
	5	828-005-691/001	Roller Assembly (consists of items 36 through 40)	B
	5	828-005-691/002	Roller Assembly (consists of items 36 through 40)	C
2	REF		Frame Weldment	A, Q
3	1	828-006-283	Door Weldment	S
4	1	714-206	Screw	
5	1	828-004-421	Bracket, Latch	
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
	1	828-006-364	ODI Assembly	T
11	2	750-006	Nut, Hex	
12	2	771-049	Washer	H, L, M, P
13	1	760-130	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
	1	114-009-695	Switch Assembly, Key	F, H, K, L, M, P, R
19	1	1-150-057	Switch, Push Button	M, R, R
	1	1-150-001	Switch, Lock with Keys	G, M, N, P
20	1	7-590-006/001	Switch, Push Button	K, L, M, P, R
21	1	114-008-718/005	SMART1 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	828-004-672	Bracket Weldment	
25	2	828-004-671	Washer	
26	2	710-069	Screw	
27	1	411-938/001	Decal, Keyswitch (Not Shown)	F, H
	1	411-938/003	Decal, Keyswitch (Not Shown)	G
	1	411-938/002	Decal, Keyswitch (Not Shown)	K, L
	1	411-938/004	Decal, Keyswitch (Not Shown)	M, N, P
28	1	828-004-674	Cable Assembly, SC to SMART1	H, L, N, P
29	1	828-004-683	Bracket, SMART1	H, L, N, P
30	1	828-004-682	Clamp, ODI	F, G, K, M
31	1	154-009-117/001	Static Strap, Insulated	

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= SMART1
K= Standard/Bypass
L= SMART1/Bypass

M= Remote/Bypass
N= Remote/SMART1
O= DT 001 to 3842/DS 001 to 3802
P= Remote/SMART1/Bypass
Q= DT 001 to 3566/DS 001 to 3640

S= DT 3567 and Up/DS 3641 and Up
T= DT 3843 and Up/DS 3803 and Up
R= Recommended Spare

List 2-2: Frame Assembly - DS/DT

2-7

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

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

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

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

IF THE PART NUMBER
IS NOT KNOWN

DO ***THIS***

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How to Use Parts Manual - 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 decribed.

APPENDIX B Numerical Parts List

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123-456-789	.....	2-5		Decal, 24 Volt Cable System	5-11
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029-002-380/002	Cable Assembly (MDE2 to S2)	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
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1-105-216/01	Contact Tip Kit	5-5	447-098	Bearing, Cone	4-3
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1-105-216/05	Cover, Top	5-5	447-562	Bearing, Cup	4-3
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		3-5	540-062	Cylinder, Hydraulic	6-5
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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, Latch	
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
	1	828-006-364	ODI Assembly	T
11	2	750-006	Nut, Hex	
12	2	771-049	Washer	H, L, M, P
13	1	760-130	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
	1	114-009-695	Switch Assembly, Key	F, H, K, L, M, P, R
19	1	1-150-057	Switch, Push Button	M, R, R
	1	1-150-001	Switch, Lock with Keys	G, M, N, P
20	1	7-590-006/001	Switch, Push Button	K, L, M, P, R
21	1	114-008-718/005	SMARTi 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	828-004-672	Bracket Weldment	
25	2	828-004-671	Washer	
26	2	710-069	Screw	
27	1	411-938/001	Decal, Keyswitch (Not Shown)	F, H
	1	411-938/003	Decal, Keyswitch (Not Shown)	G
	1	411-938/	witch (Not Shown)	K, L
	1	411-938/004	(Not Shown)	M, N, P
28	1	828-004-674	Cabl to SMARTi	H, L, N, P
29	1	828-004-683	Bracket,	H, L, N, P
30	1	828-004-682	Clamp, OD	F, G, K, M
31	1	154-009-117/001	Static Strap,	

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/Byp
N= Remote/SMA
O= DT 001 to 384
P= Remote/SMARTi
Q= DT 001 to 3566
S= DT 3567 and Up/DS 3641 and Up
T= DT 3843 and Up/DS 3803 and Up
R= Recommended Spare

List 2-2: Frame Assembly - DS/

2-7

123-456-789

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

Frame Assembly - DS/D

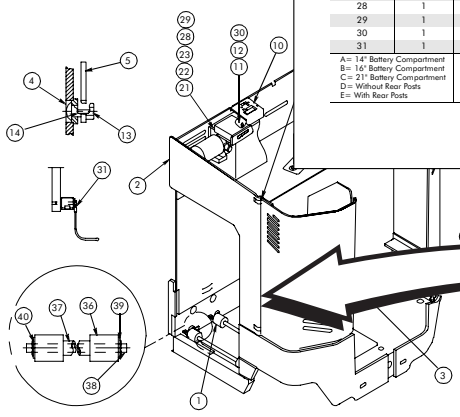


Figure 2-2: Frame Assembly - DS/DT

2-1

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

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Mast and Tractor Designations

Mast Series Designations

The lift truck model number includes the model plus the mast series designation.

Table 1: Mast Series Designation

MODEL(S)	MAST SERIES DESIGNATION	MAX LOAD FORKS LOWERED	CARRIAGE TYPE
7400	R35TT	3500 lbs. 1588 kg	Standard Reach
7400 7420 7440	R45TT	4500 lbs. 2041 kg	Standard Reach
7400 7420 7440	DR32TT	3200 lbs. 1451 kg	*Deep-Reach*®

Tractor Series Designations

The lift truck serial number consists of a three-digit model abbreviation, two-digit year of manufacture, two-digit series designator, and five-digit serial number.

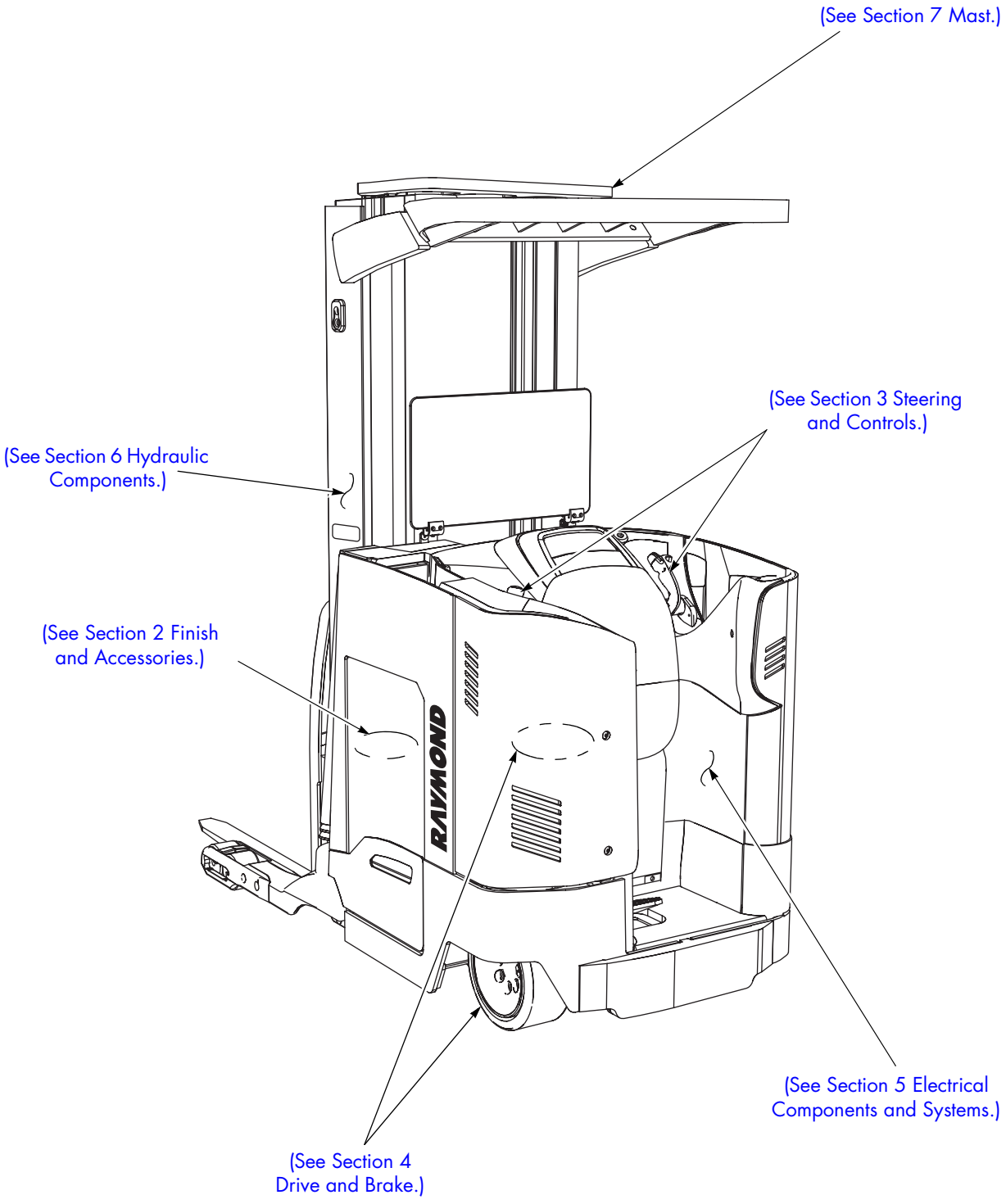
Table 2: Tractor Series Designation

TRACTOR SERIES	LIFT MOTOR	LIFT PUMP	STANCE
AA, AB	DC	Single	Fore-Aft
BA, BB	DC	Dual	Fore-Aft
CA, CB	AC	Single	Fore-Aft
DA, DB	DC	Single	Side Stance
EA, EB	DC	Dual	Side Stance
FA, FB	AC	Single	Side Stance

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Major Sections

Figure 1-1: Major Sections



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Recommended Spare Parts List

Description	Part No.	Qty.	Fig.
Bearing Set, Drive Unit	1008747	1	4-3
Bearing Set, Drive Unit	447-591/100	1	4-3
Bearing Set, Drive Unit	447-592/100	1	4-3
Bearing Set, Drive Unit	447-593	1	4-3
Bearing, Auxiliary Motor, Commutator End	570-358/453	1	5-15
Bearing, Auxiliary Motor, Drive End	570-358/452	1	5-15
Bearing, Ball	441-128	2	3-2
Bearing, Ball	443-052	4	7-20
Bearing, Ball	850-017	70	4-3
Bearing, Chain Pulley Sheave	443-027	2	7-10
Bearing, Chain Pulley Sheave	443-031	4	7-6
Bearing, Cone	447-077	1	3-2
Bearing, Cup	447-533	1	3-2
Bearing, Cylindrical	1012503	2	7-23
Bearing, Cylindrical	1012503	2	7-24
Bearing, Drive End	570-240/215	1	5-13
Bearing, Drive Motor Compartment Door	462-086	2	2-2
Bearing, Drive Motor Compartment Door	462-086	2	2-3
Bearing, Drive	1038442/17	1	5-12
Bearing, Drive	1052117/07	1	5-14
Bearing, Encoder, Height Indicator	1061151	1	5-26
Bearing, Encoder, Height Indicator	1061151	1	5-27
Bearing, Load Wheel	441-127	8	7-56
Bearing, Load Wheel	441-130	8	7-56
Bearing, Load Wheel	442-150	8	7-56
Bearing, Mast Roller	449-015	6	7-16
Bearing, Mast Roller	449-015	8	7-3
Bearing, Mast Roller	449-025	6	7-3
Bearing, Mast Roller	449-032	14	7-4
Bearing, Mast Roller	449-032	14	7-5
Bearing, Mast Roller	449-032	14	7-6
Bearing, Mast Roller	449-032	6	7-16
Bearing, Mast Roller	449-032	6	7-18
Bearing, Motor Speed Encoder Assembly (Danaher)	570-610/06	1	5-11
Bearing, Motor Speed Encoder Assembly (Sauer Danfoss)	1038442/16	1	5-12
Bearing, Motor Speed Encoder Assembly (Sauer Danfoss)	1052117/16	1	5-14
Bearing, Motor, DC Lift	570-445/215	1	5-13
Bearing, Needle	445-118	1	3-1
Bearing, Oil-Impregnated Thrust Washer	464-092	1	3-1
Bearing, Oil-Impregnated	460-476	2	7-23
Bearing, Oil-Impregnated	460-476	2	7-24
Bearing, Oil-Impregnated	460-476	2	7-26
Bearing, Oil-Impregnated	460-476	2	7-27
Bearing, Oil-Impregnated	464-092	2	7-20
Bearing, Oil-Impregnated, Deadman Pedal	462-010	2	4-7
Bearing, Oil-Impregnated, Deadman Pedal	462-010	2	4-9
Bearing, Roller	448-221	2	7-20
Bearing, Roller	448-221	4	7-17
Bearing, Roller	448-226	2	7-20
Bearing, Roller	448-227	2	7-20
Bearing, Sleeve	460-488	2	7-26
Bearing, Sleeve	460-488	2	7-27
Bearing, Sleeve, Control Handle, Side Stance	1052043	2	3-15
Bearing, Sleeve, Control Handle, Side Stance	1052043	2	3-16
Bearing, Sleeve, Flanged	460-616	2	7-26
Bearing, Sleeve, Flanged	460-616	2	7-27
Bearing, Spherical Roller	460-680	1	3-1
Bearing, Spherical Roller	460-680	1	3-1
Bearing, Spherical	1049722	2	7-20
Bearing, Spherical	460-690	1	6-30
Bearing, Spherical	460-690	1	7-19
Bearing, Spherical	460-690	5	7-17
Bearing, Spherical	460-693	4	7-20
Bearing, Spherical	460-696	2	7-17
Bearing, Thrust	444-326	1	3-2
Bearing, Thrust	444-326	2	7-17
Bearing, Thrust, Open	444-416	2	7-17
Belt, Drive	1017244/001	1	5-24
Belt, Drive	1017244/002	1	5-24
Belt, Drive	1017244/003	1	5-24
Belt, Drive	1017244/004	1	5-24
Belt, Drive	1017244/005	1	5-24
Belt, Drive	1017244/006	1	5-24
Brush Assembly, Auxiliary Motor	570-358/461	4	5-15
Brush Set, DC Lift Motor	570-604/512	1	5-13
Brush Set, Steer Motor (AC Lift)	1016523/215	1	3-6
Bumper, Mast	1100471	2	7-4
Bumper, Mast	1100471	2	7-5
Card Assembly, Circuit, Control Handle, Fore-Aft Stance	1016152/002	1	3-12
Card Assembly, Circuit, Control Handle, Fore-Aft Stance	1016152/101	1	3-13
Card Assembly, Circuit, Control Handle, Side Stance	1024359/002	1	3-15
Card Assembly, Circuit, Control Handle, Side Stance	1024359/002	1	3-16
Card Assembly, Circuit, Steer Amplifier	1005525/004	1	5-1
Card Assembly, Circuit, Steer Amplifier	1005525/004	1	5-3
Card Assembly, Circuit, Temperature Sensor, Ambient	1010571/001	1	5-28
Circuit Card, CAN I/O Expander Module, OCSS	1031429/003	1	8-14
Circuit Card, CAN I/O Expander Module, OCSS	1031429/003	1	8-15
Connector, Battery (Gray)	590-755/001	1	5-23
Connector, Battery (Red)	590-726	1	5-23
Display, Operator, Fore-Aft	1009195/006	1	5-16
Display, Operator, Side Stance	1016511/004	1	5-17
Display, Operator, Side Stance	1016511/004	1	5-18
Encoder, Steering	1012203	1	3-10
Encoder, Steering	1012203	1	3-8
Filter, Hydraulic, Element	1012615/003	1	6-17
Filter, Hydraulic, Element	1012615/003	2	6-18
Filter, Hydraulic, Element	1012615/103	1	6-20
Fitting, Straight	1046192	1	7-13
Fuse (FU1), 150 amp	590-587/109	1	5-8
Fuse (FU1), 150 amp	590-587/109	1	5-9
Fuse (FU11), 10 amp	590-507	1	8-21
Fuse (FU2), 350 amp	590-587/117	1	5-8
Fuse (FU2), 350 amp	590-587/117	1	5-9
Fuse (FU3), 500 amp	590-587/119	1	5-8
Fuse (FU3), 500 amp	590-587/119	1	5-9
Fuse (FU5 and FU6), (FU7 and FU8, 15 amp for 10 amp option)	590-585/008	4	5-21
Fuse (FU7 and FU8), 5 amp (2 amp option)	590-585/005	2	5-21
Fuse (FU9), 10 amp	590-507	1	8-18

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Description	Part No.	Qty.	Fig.
Gear, Timing Assembly, Height Indicator	1078276	1	5-26
Horn, 36V, Mechanical	590-643/005	1	5-19
Indicator, Brush Wear	1008685/517	1	5-13
Key, Woodruff	570-610/30	2	5-11
Kit, Contactor Tip	1-105-129/111	1	5-10
Kit, Contactor Tip	1-105-131/111	1	5-10
Kit, Ring Set	1030934	1	4-3
Kit, Seal, AC Lift Pump	1020602/111	1	6-14
Kit, Seal, Auxiliary Pump	500-348/367	1	6-15
Kit, Seal, Cylinder, Sideshift	1014796/412	1	6-32
Kit, Seal, Dual DC Lift Pump	500-444/211	1	6-13
Kit, Seal, Single DC Lift Pump	500-348/367	1	6-12
Kit, Seal, Steer Motor	1013151/01	1	3-4
O-Ring	1038771	1	6-26
O-Ring (> 95 in. OACH)	530-534	1	6-25
O-Ring	1004214	1	6-28
O-Ring	1029121	1	3-12
O-Ring	1029121	1	3-15
O-Ring	1029121	1	3-16
O-Ring	1034060/85	1	5-12
O-Ring	1034060/85	1	5-14
O-Ring	530-533	2	6-26
O-Ring	591-569/117	1	8-24
Pad, Bow, Inner Telescopic	1009950	6 or 12	7-4
Pad, Friction	1065061/011	6	4-5
Pad, Kickback	1012605	2	7-5
Pad, Kickback	1012605	2	7-6
Panel Assembly, Relay/ Control Fuse	1022159/004	1	5-21
Power Amplifier, Lift	1015187/003	1	5-6
Power Amplifier, Traction	1014593/003	1	5-5
Pressure Transducer (CYL-P), AC Lift	1095161/001	1	6-17
Pressure Transducer (CYL-P), AC Lift	1095161/001	1	6-18
Pressure Transducer (CYL-P), DC Lift	1095161/001	1	6-20
Resistor, Variable, Lift Potentiometer (VR2)	1017546/003	1	3-16
Resistor, Variable, Lift Potentiometer (VR2), Fore-Aft Stance	1017546/002	1	3-12
Resistor, Variable, Lift Potentiometer (VR2), Fore-Aft Stance	1017546/002	1	3-13
Resistor, Variable, Lift Potentiometer (VR2), Side Stance	1017546/003	1	3-15
Resistor, Variable, Travel Potentiometer (VR1)	1017546/001	1	3-16
Resistor, Variable, Travel Potentiometer (VR1), Fore-Aft Stance	1017546/001	1	3-12
Resistor, Variable, Travel Potentiometer (VR1), Fore-Aft Stance	1017546/001	1	3-13
Resistor, Variable, Travel Potentiometer (VR1), Side Stance	1017546/001	1	3-15
Resistor, Variable, Travel Potentiometer (VR3)	1017841/001	1	3-18
Resistor, Variable, Travel Potentiometer (VR3)	1017841/001	1	3-19
Ring, Backup	531-025	2	6-26
Roller, Battery	123-001-382	2	2-4
Seal Kit, Cylinder, Deep-Reach	1013792/422	1	6-30
Seal Kit, Cylinder, Free Lift, Staging, Models 7420 and 7440	1055355/01	1	6-29
Seal Kit, Cylinder, Main Lift, Models 7420 and 7440	1055355/01	1	6-26
Seal Kit, Cylinder, Single Reach	1022180/422	1	6-30
Seal Kit, Cylinder, Tilt, DR32TT	540-067/214	1	6-31
Seal Kit, Cylinder, Tilt, R35TT and R45TT	1008283/424	1	6-31
Seal	530-633	1	6-25
Seal	530-633	1	6-26
Seal	530-633	1	6-29
Seal, Connector	1-012-500/002	1	6-8
Seal, Connector	1-012-500/002	1	8-19
Seal, Connector	1-012-500/002	1	8-24
Seal, Connector	1-012-500/002	1	8-25
Seal, Connector	1-012-500/004	1	3-18
Seal, Connector	1-012-500/02	1	3-19
Seal, Connector	1-012-500/04	1	3-19
Seal, Lip	410-022/18	1	4-3
Seal, Piston, Main Lift, Model 7400	530-757	1	6-25
Seal, Shaft	1038442/09	1	5-12
Seal, Shaft	1052117/09	1	5-14
Seal, Wiper, Cylinder, Main Lift, Model 7400	531-613	1	6-25
Seal, Wiper, Cylinder, Main Lift, Models 7420 and 7440	1038775	1	6-26
Sensor, Proximity, Deadman (VR4)	1009427	1	4-7
Sensor, Proximity, Deadman (VR4)	1009427	1	4-9
Sensor, Temperature, DC Lift Motor	1013789/001	1	5-2
Shim, Kickback	1045212	2	7-4
Spring Set, Brush	570-446/516	2	5-13
Spring, Brush	1020545/483	4	5-15
Spring, Compression	1065061/010	10	4-5
Spring, Compression	1086953/001	1	3-12
Spring, Compression	1086953/001	1	3-13
Spring, Compression	1086953/001	1	3-15
Spring, Compression	1086953/001	1	3-16
Spring, Compression	830-129	1	3-10
Spring, Compression	830-129	1	4-7
Spring, Compression	830-129	1	4-9
Spring, Compression	830-151	1	6-25
Spring, Compression	830-151	1	6-29
Spring, Compression	830-218	2	3-1
Spring, Compression	830-242	2	4-11
Spring, Main	1-105-122/03	1	5-10
Spring, Tension	830-052	1	3-8
Spring, Tension	830-052	1	5-24
Spring, Tension	830-052	2	7-12
Spring, Tension	830-052	2	7-13
Spring, Tension	830-052	2	7-14
Spring, Tension, Model 7420	830-052	1	5-25
Spring, Torsion, Lift Potentiometer	1015196	1	3-12
Spring, Torsion, Lift Potentiometer	1015196	1	3-13
Spring, Torsion, Lift Potentiometer	1015196	1	3-15
Spring, Torsion, Lift Potentiometer	1015196	1	3-16
Spring, Torsion, Travel Potentiometer	1015005	1	3-12
Spring, Torsion, Travel Potentiometer	1015005	1	3-13
Spring, Torsion, Travel Potentiometer	1015005	1	3-15
Spring, Torsion, Travel Potentiometer	1015005	1	3-16
Spring, Torsion, Travel Potentiometer	1018263	1	3-18
Spring, Torsion, Travel Potentiometer	1018263	1	3-19
Switch, Deadman (S2)	7-590-003/001	1	4-7
Switch, Deadman (S2)	7-590-003/001	1	4-9
Switch, EPO	1078248	1	5-1

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Recommended Spare Parts List

Description	Part No.	Qty.	Fig.
Switch, EPO	1078248	1	5-2
Switch, EPO	1078248	1	5-3
Switch, EPO	1078248	1	5-4
Switch, Limit (Nested Forks) (S14)	1-150-406	1	8-8
Switch, Limit (Nested Forks) (S14)	1-150-406	1	8-9
Switch, Pressure (HTI)	591-630	1	6-17
Switch, Pressure (HTI)	591-630	1	6-18
Switch, Pressure (HTI)	591-630	1	6-20
Switch, Proximity, First Speed Limiting (S12)	1031427/001	1	5-31
Switch, Proximity, First Speed Limiting (S12)	1031427/001	1	5-32
Switch, Pushbutton, Horn, Secondary	1020056	1	3-18
Switch, Pushbutton, Horn, Secondary	1020056	1	3-19
Switch, Rocker, Operator Fan	1-150-343/001	1	8-20
Switch, Security Start (S23)	1022279	1	8-11
Switch, Toggle, Working Light	591-575/01	1	8-19
Tire, Drive	632-131/001	1	4-10
Track, Bearing, Carriage	1020738	1	7-25
Track, Bearing, Carriage	1020738	1	7-28
Track, Bearing, Carriage	1022278	2	7-25
Track, Bearing, Carriage	1022278	2	7-28
Valve, Auxiliary Relief (REL-2)	1014435/013	1	6-17
Valve, Auxiliary Relief (REL-2)	1014435/013	1	6-18
Valve, Check (CV-1, AC Lift)	1014626/001	1	6-17
Valve, Check (CV-1, AC Lift)	1014626/001	1	6-18
Valve, Check (CV-1, DC Lift)	1013281/005	1	6-20
Valve, Check (CV-2)	520-337/004	1	6-20
Valve, Check (Deep-Reach Manifold CV-3)	520-943	1	6-22
Valve, Check, Reach Cylinder	1022180/424	1	6-30
Valve, Counterbalance, Deep-Reach (CB-1)	1020951/004	1	6-22
Valve, Counterbalance, Deep-Reach (CB-2)	1020951/001	1	6-22
Valve, Directional (LS-1)	1009200/001	1	6-17
Valve, Directional (LS-1)	1009200/001	1	6-18
Valve, Directional (LS-1)	1009200/001	1	6-20
Valve, Directional (SOL 4 and SOL-8)	1013286/001	1-2	6-20
Valve, Flow Control (CE-1, DC Lift)	1009323/019	1	6-20
Valve, Flow Control (POD-1, AC Lift)	1009208/060	1	6-17
Valve, Flow Control (POD-1, AC Lift)	1009208/060	1	6-18
Valve, Flow Control, Main Lift Cylinder	1050681	2	7-13
Valve, Flow Control, Main Lift Cylinder, Models 7420 and 7440	1050681	2	7-14
Valve, Load Holding (SOL 1, DC Lift)	1013270/001	1	6-20
Valve, Main Relief (REL-1, DC Lift)	1009281/007	1	6-20
Valve, Poppet, Load Holding (SOL 1, AC Lift)	520-934/002	1	6-17
Valve, Poppet, Load Holding (SOL 1, AC Lift)	520-934/002	1	6-18
Valve, Pressure Control	1076656/001	1	6-21
Valve, Pressure Control	1076656/002	1	6-21
Valve, Proportional, Auxiliary Direction (SOL 5T and SOL5B, AC Lift)	1006072/001	1	6-17
Valve, Proportional, Auxiliary Direction (SOL 5T and SOL5B, AC Lift)	1006072/001	1	6-18
Valve, Proportional, Auxiliary Direction (SOL 5T and SOL5B, DC Lift)	1020607/001	1	6-20
Valve, Proportional, Lift/Lower (SOL 2, AC Lift), Model 7400	1015361/001	1	6-17
Valve, Proportional, Lift/Lower (SOL 2, AC Lift), Models 7420 and 7440	1051417/001	1	6-18
Valve, Proportional, Lift/Lower (SOL 2, DC Lift)	1015361/001	1	6-20
Valve, Proportional, Main Relief (SOL 3, AC Lift)	1011602/001	1	6-17
Valve, Proportional, Main Relief (SOL 3, AC Lift)	1011602/001	1	6-18
Valve, Relief, Deep-Reach (REL-3)	1009281/013	1	6-22
Valve, Solenoid, 4-Way (Reach, Tilt, and Sideshift Valves)	520-968	3	6-21
Valve, Solenoid, Reach, DR32TT	1020957/001	1	6-22
Valve, Solenoid, Tilt and Sideshift, DR32TT	520-968	2	6-24
Valve, Solenoid, Tilt, DR32TT	520-968	1	6-23
Vehicle Manager Assembly	1019283/006	1	5-7
Washer, Oil-Impregnated	464-006	AR	4-9
Wheel, Caster, Poly, Brown	632-078/107	1	3-2
Wheel, Caster, Poly, Tan	632-078/007	1	3-2

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Hardware Parts List

Description	Part No.	Qty.
Block, Chain Anchor, Main Lift, Left-Hand	1017413	1
Bolt Alteration	1064424	4
Bolt	1015098/001	1
Bolt	824-000-382	4
Bolt, Carriage	1009565/001	9
Bolt, Eye	1014309	1
Bolt, Shoulder	716-137	4
Nut	1020545/471	1
Nut	5-015-003	13
Nut	5-015-004	6
Nut	5-015-005	42
Nut	5-015-007	5
Nut	5-015-008	4
Nut	5-016-004	2
Nut	5-016-005	2
Nut	5-016-014	2
Nut	600-915/003	2
Nut	750-001	16
Nut	750-006	8
Nut	750-008	6
Nut	750-019	2
Nut	750-020	9
Nut	750-468	1
Nut	760-013	2
Nut	760-054	4
Nut	761-882	1
Nut	7-750-408	2
Nut	7-750-412	1
Nut	7-750-920	1
Nut, Clamp	1020548/001	1
Nut, Lock	1008283/423	1
Nut, Lock	1008676/07	1
Nut, Lock	5-016-005	2
Nut, Lock	5-016-014	40
Nut, Lock	5-016-015	8
Nut, Lock	5-016-016	6
Nut, Lock	5-016-017	16
Nut, Lock	5-016-018	8
Nut, Lock	540-070/417	1
Nut, Lock	760-006	3
Nut, Lock	760-013	4
Nut, Lock	760-054	2
Nut, Lock	760-103	4
Nut, Lock	760-130	4
Nut, Lock	760-148	3
Nut, Lock	761-878	2
Nut, Lock, Heavy	1043403/005	4
Nut, Nylon Locking	5-016-002	8
Nut, Nylon Locking	5-016-004	25
Nut, Nylon Locking	5-016-005	37
Nut, Nylon Locking	5-016-006	2
Nut, Nylon Locking	5-016-007	2
Nut, Nylon Locking	5-016-008	4
Nut, Nylon Locking	5-016-009	6
Nut, Retainer	7-812-002	11
Pin	1017291	4
Pin	861-013	2
Pin, Chain Anchor, Main Lift	1012089	2
Pin, Contact	1-012-071	4
Pin, Contact	1-012-512/007	4
Pin, Cotter	1023415	4
Pin, Cotter	810-910	2
Pin, Cotter	810-930	1
Pin, Cotter	811-563	4
Pin, Cylinder Mounting	1023443	2
Pin, Dowel	1012796/005	64
Pin, Dowel	1012796/006	56
Pin, Dowel	1045951	12
Pin, Dowel	812-407	1
Pin, Eccentric, Fixed	1021586	2
Pin, Inner Arm	623-003-050	2
Pin, Pivot (1011137 Opposite side)	828-003-078	1
Pin, Pivot	NSS	1
Pin, Retainer	116-000-342	2
Pin, Spiral	810-717	2
Pin, Spiral	810-722	2
Pin, Spiral	810-733	2
Pin, Spiral	810-756	1
Pin, Spiral	810-761	8
Pin, Spiral	810-763	8
Pin, Spring	5-024-010	2
Retainer, Pin	1012091	6
Ring	116-000-331	4
Ring	828-006-317	4
Ring, Lock, Internal	1008283/415	1
Ring, Lock, Internal	540-067/415	1
Ring, Retaining	1017662	1
Ring, Retaining	1017784	4
Ring, Retaining	1021630	2
Ring, Retaining	410-022/11	1
Ring, Retaining	570-427/513	1
Ring, Retaining	780-004-100	2
Ring, Retaining	810-022	2
Ring, Retaining	810-107	2
Ring, Retaining	810-118	2
Ring, Retaining	810-132	4
Ring, Retaining, External	1022180/419	1
Ring, Retaining, External	540-070/415	1
Ring, Retaining, Internal	1022180/418	1
Ring, Retaining, Internal	540-070/418	1
Ring, Retaining, Push-On	810-488/014	2
Ring, Snap	810-028	3
Ring, Snap	810-030	4
Ring, Snap	810-045	2
Ring, Snap	810-052	4
Ring, Snap	810-068	4
Ring, Snap	810-136	2
Ring, Snap, External	1008283/416	1
Ring, Snap, External	540-067/416	1
Ring, Snap, External	810-137	2
Ring, Snap, External	810-215	3
Screw	5-001-001	13
Screw	5-001-006	7
Screw	5-001-015	4
Screw	5-001-045	2
Screw (Model 7400 and All UL Type EE)	5-001-056	4
Screw (Models 7420 and 7440)	5-007-024	4
Screw (Models 7420 and 7440)	5-007-027	3
Screw	701-021	2
Screw	1005931	2
Screw	1007408	4
Screw	1009854	4
Screw	1012481	4
Screw	1018783/001	4
Screw	1018783/002	4
Screw	1020545/470	1
Screw	1020545/479	4
Screw	1033161	3
Screw	1040923/002	4
Screw	1040923/004	2
Screw	1040923/005	4
Screw	1040923/006	4

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Hardware Parts List

Description	Part No.	Qty.
Screw	1040923/007	2
Screw	1040923/008	4
Screw	1053165/024	8
Screw	1053165/025	3
Screw	1053165/026	4
Screw	1053165/027	5
Screw	1065061/05	3
Screw	1-074-076	2
Screw	1075831	3
Screw	1075947/001	2
Screw	23006	4
Screw	5-001-001	45
Screw	5-001-002	7
Screw	5-001-003	13
Screw	5-001-004	9
Screw	5-001-005	10
Screw	5-001-006	8
Screw	5-001-007	35
Screw	5-001-008	12
Screw	5-001-009	48
Screw	5-001-010	6
Screw	5-001-012	4
Screw	5-001-014	2
Screw	5-001-015	11
Screw	5-001-017	3
Screw	5-001-018	2
Screw	5-001-020	4
Screw	5-001-022	4
Screw	5-001-023	4
Screw	5-001-024	14
Screw	5-001-025	8
Screw	5-001-026	7
Screw	5-001-027	5
Screw	5-001-028	14
Screw	5-001-030	8
Screw	5-001-034	6
Screw	5-001-039	16
Screw	5-001-042	50
Screw	5-001-045	6
Screw	5-001-047	256
Screw	5-001-049	256
Screw	5-001-051	3
Screw	5-001-054	3
Screw	5-001-056	8
Screw	5-001-059	2
Screw	5-001-063	1
Screw	5-002-001	2
Screw	5-002-003	2
Screw	5-002-007	1
Screw	5-002-008	16
Screw	5-002-009	14
Screw	5-002-010	2
Screw	5-002-012	8
Screw	5-002-016	5
Screw	5-002-019	4
Screw	5-002-024	4
Screw	5-002-042	22
Screw	5-002-043	2
Screw	5-002-046	8
Screw	5-002-048	4
Screw	5-003-003	8
Screw	5-003-004	2
Screw	5-003-007	4
Screw	5-003-010	2
Screw	5-003-011	28
Screw	5-003-012	31
Screw	5-003-013	18
Screw	5-003-016	1
Screw	5-003-017	30
Screw	5-003-018	4
Screw	5-003-019	6
Screw	5-003-032	5
Screw	5-004-008	44
Screw	5-004-013	4
Screw	5-004-014	13
Screw	5-004-017	16
Screw	5-004-022	2
Screw	5-004-025	2
Screw	5-004-026	8
Screw	5-004-027	5
Screw	5-004-031	4
Screw	5-004-034	2
Screw	5-004-037	2
Screw	5-005-005	2
Screw	5-005-018	4
Screw	5-006-024	2
Screw	5-007-023	4
Screw	5-007-024	12
Screw	5-010-004	52
Screw	5-010-005	4
Screw	5-010-009	6
Screw	5-010-010	2
Screw	5-010-015	8
Screw	5-010-017	6
Screw	5-010-029	2
Screw	5-010-035	4
Screw	5-010-037	12
Screw	5-010-040	6
Screw	5-010-041	2
Screw	5-011-013	2
Screw	5-013-007	2
Screw	5-013-008	4
Screw	5-013-010	6
Screw	5-014-003	6
Screw	5-014-004	4
Screw	5-014-005	3
Screw	701-018	2
Screw	701-021	2
Screw	701-105	12
Screw	701-117	4
Screw	701-128	4
Screw	701-132	8
Screw	701-182	2
Screw	701-200	8
Screw	701-201	2
Screw	701-306	2
Screw	701-334	1
Screw	701-370	4
Screw	702-295	4
Screw	710-004	2
Screw	710-007	4
Screw	710-008	1
Screw	710-127	1
Screw	710-134	2
Screw	710-139	2
Screw	710-242	2
Screw	710-367	1
Screw	714-065	1
Screw	714-075	4
Screw	714-096	6
Screw	714-107	2
Screw	714-133	2
Screw	714-138	2
Screw	714-142	2
Screw	714-143	4
Screw	714-147	2

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Description	Part No.	Qty.
Screw	714-206	2
Screw	715-016	6
Screw	715-033	3
Screw	715-037	18
Screw	715-045	2
Screw	716-002	3
Screw	716-131	2
Screw	716-143	1
Screw	717-107/001	4
Screw	740-139	2
Screw	7-701-004/060	4
Screw	7-710-005/010	3
Screw	7-710-006/030	2
Screw	7-710-008/160	4
Screw	7-710-012/025	32
Screw	7-714-004/040	3
Screw	7-714-005/012	4
Screw	7-714-008/130	2
Screw	7-714-016/080	5
Screw	7-714-116/030	6
Screw	7-714-116/045	6
Screw	7-714-120/040	16
Screw	7-742-007/004	16
Screw	7-900-202/010	2
Screw, 5/16 x 18 x 3.5 in.	1049814	5
Screw, Bracket Mounting	5-001-001	2
Screw, Brake Release	7-710-006/050	2
Screw, Hex Head Cap	1045715	16
Screw, Release	1065061/06	1
Screw, Set	1012268	3
Screw, Set	1012875	2
Screw, Set	1018793	2
Screw, Set	1033161	1
Screw, Set	5-006-007	2
Screw, Set	5-006-028	2
Screw, Set	5-006-035	2
Screw, Set	724-412	2
Screw, Set	724-520	2
Screw, Shoulder	5-001-010	2
Screw, Shoulder	5-005-005	4
Screw, Shoulder	5-005-014	3
Screw, Shoulder	5-005-017	12
Screw, Shoulder	5-005-018	4
Screw, Shoulder	5-005-019	4
Screw, Slotted	1012268	1
Screw, Soc Button	5-003-021	2
Screw, Thread-Forming	5-011-002	1
Screw, Thread-Forming	5-011-009	2
Shim (0.03 in.)	780-001-091	AR
Shim (0.06 in.)	780-001-090	AR
Shim (0.0625 in. Thick)	820-001-657	AR
Shim (0.125 in. Thick)	820-001-658	AR
Shim (0.25 in. Thick)	828-005-141/004	AR
Shim, Spacer, Kickback, Inner Telescopic	1029413	AR
Spacer	1065061/04	3
Washer	1028409	24
Washer	1040106	3
Washer	1079031	1
Washer	775-031	2
Washer	820-002-119	2
Washer	828-004-493	1
Washer	828-004-671	1
Washer, Flat	7-771-206	8
Washer, Flat	5-018-006	7
Washer, Flat	1045963	2
Washer, Flat	314065-006	1
Washer, Flat	5-018-002	45
Washer, Flat	5-018-003	3
Washer, Flat	5-018-004	17
Washer, Flat	5-018-005	61
Washer, Flat	5-018-006	153
Washer, Flat	5-018-007	11
Washer, Flat	5-018-008	54
Washer, Flat	5-018-009	265
Washer, Flat	5-018-010	78
Washer, Flat	5-018-012	41
Washer, Flat	5-020-006	8
Washer, Flat	771-006	4
Washer, Flat	771-012	3
Washer, Flat	771-014	2
Washer, Flat	771-019	3
Washer, Flat	771-023	4
Washer, Flat	771-025	4
Washer, Flat	771-040	AR
Washer, Flat	771-044	AR
Washer, Flat	771-107	4
Washer, Flat	771-112	7
Washer, Flat	771-116	15
Washer, Flat	771-123	10
Washer, Flat	771-127	2
Washer, Flat	771-128	3
Washer, Flat	771-137	AR
Washer, Flat	771-152	4
Washer, Flat	771-160	AR
Washer, Flat	771-161	2
Washer, Flat	771-164/003	1
Washer, Flat	771-173	2
Washer, Flat	7-771-206	32
Washer, Lock	5-019-002	9
Washer, Lock	5-019-003	4
Washer, Lock	5-019-005	10
Washer, Lock	5-019-006	56
Washer, Lock	772-112	8
Washer, Lock	772-116	14
Washer, Lock	774-005	2
Washer, Lock	774-009	1
Washer, Lock	774-016	2
Washer, Lock	774-105	4
Washer, Nylon	1015286	3
Washer, Oil-Impregnated	464-006	AR
Washer, Spring	570-358/477	1
Washer, Tongued	772-038	2
Washer, Wavy	570-252/518	1

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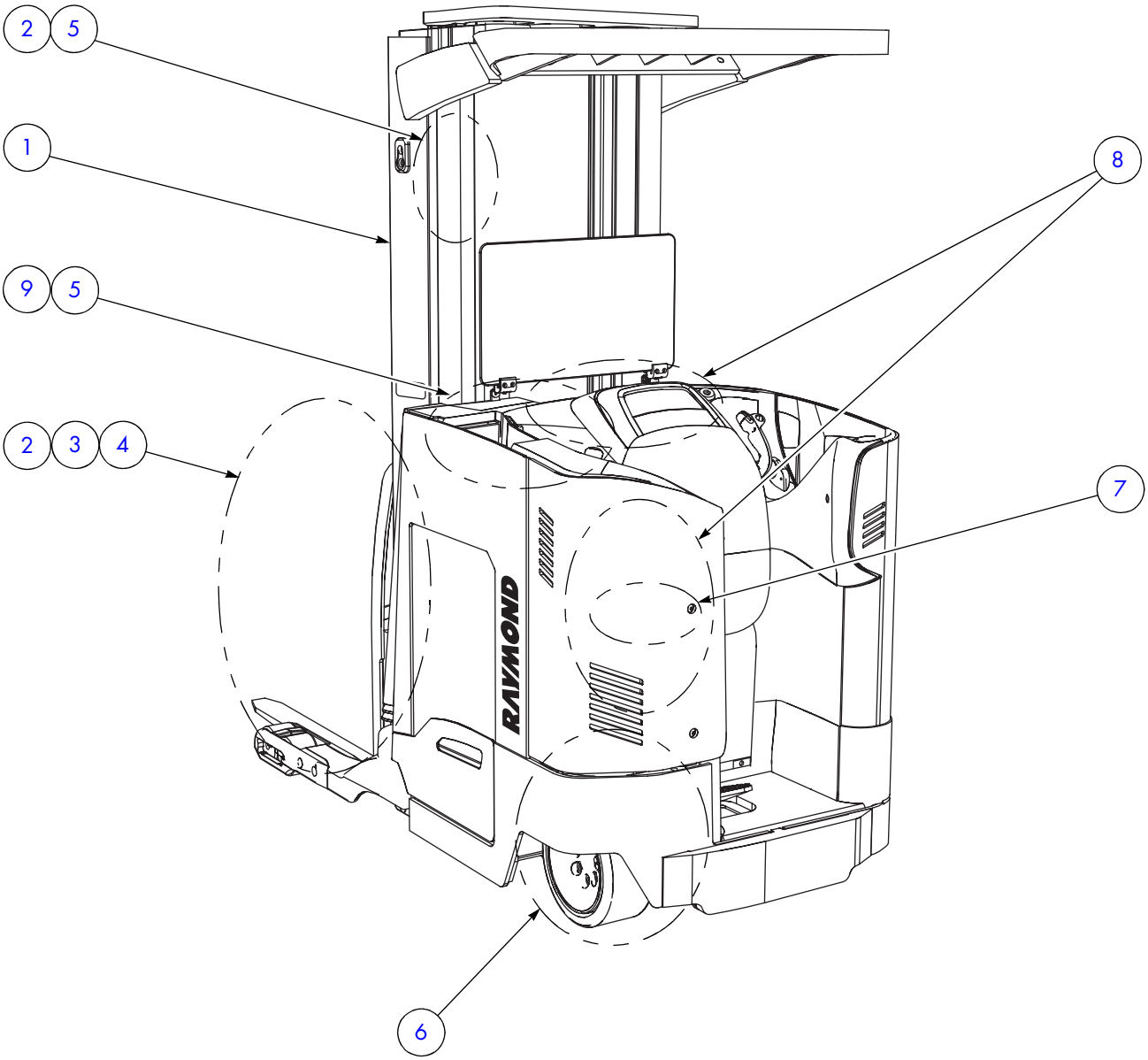
SECTION 2 Finish and Accessories

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Truck Major Assemblies

Figure 2-1: Truck Major Assemblies



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List 2-1: Truck Major Assemblies (Sheet 1 of 2)

FIGURE 2-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	Ref.	Ref.	Major Truck Assemblies	
1	Ref.	Ref.	Elevating Section (Mast)	
	Ref.	Ref.	Elevating Section, 7400, R35TT (See Figure 7-3a.)	
	Ref.	Ref.	Elevating Section, 7400, R45TT (See Figure 7-4a.)	
	Ref.	Ref.	Elevating Section, 7400, DR32TT (See Figure 7-4a.)	
	Ref.	Ref.	Elevating Section, 7420, R45TT (See Figure 7-5a.)	
	Ref.	Ref.	Elevating Section, 7420, DR32TT (See Figure 7-5a.)	
	Ref.	Ref.	Elevating Section, 7440, R45TT (See Figure 7-6a.)	
	Ref.	Ref.	Elevating Section, 7440, DR32TT (See Figure 7-6a.)	
2	Ref.	Ref.	Cylinders	
	Ref.	Ref.	Main Lift Cylinder, 7400 (See Figure 6-25.)	
	Ref.	Ref.	Main Lift Cylinder, 7420 and 7440 (See Figure 6-26.)	
	Ref.	Ref.	Free Lift Cylinder, Non-Staging (DC Lift), 7400, R35TT/R45TT/DR32TT (See Figure 6-27.)	
	Ref.	Ref.	Free Lift Cylinder, Staging (AC Lift), 7400, R35TT/R45TT/DR32TT (See Figure 6-28.)	
	Ref.	Ref.	Free Lift Cylinder, Staging (AC Lift), 7420/7440, R45TT/DR32TT (See Figure 6-29.)	
	Ref.	Ref.	Reach Cylinder Assembly (See Figure 6-30.)	
	Ref.	Ref.	Tilt Cylinder Assembly (See Figure 6-31.)	
	Ref.	Ref.	Sideshift Cylinder Assembly (See Figure 6-32.)	
3	Ref.	Ref.	Carriage Installation and Assembly	
	Ref.	Ref.	Carriage Installation, R35TT / R45TT (See Figure 7-15a.)	
	Ref.	Ref.	Reach Carriage Assembly, R35TT / R45TT (See Figure 7-16a.)	
	Ref.	Ref.	Scissor Assembly, R35TT / R45TT (See Figure 7-17.)	
	Ref.	Ref.	Carriage Installation, DR32TT (See Figure 7-18a.)	
	Ref.	Ref.	Reach Carriage Assembly, DR32TT (See Figure 7-19a.)	
	Ref.	Ref.	Scissor Assembly, DR32TT (See Figure 7-20a.)	
4	Ref.	Ref.	Fork Carriage Assembly	
	Ref.	Ref.	Carriage Assembly, Tilt No Sideshift, R35TT / R45TT (See Figure 7-23.)	
	Ref.	Ref.	Carriage Assembly, Tilt and Sideshift, R35TT / R45TT (See Figure 7-24.)	
	Ref.	Ref.	Carriage Assembly, Tilt and Sideshift, R35TT / R45TT (See Figure 7-25.)	
	Ref.	Ref.	Carriage Assembly, Tilt No Sideshift, DR32TT (See Figure 7-26.)	
	Ref.	Ref.	Carriage Assembly, Tilt and Sideshift, DR32TT (See Figure 7-27.)	
	Ref.	Ref.	Carriage Assembly, Sideshift, DR32TT (See Figure 7-28.)	
5	Ref.	Ref.	Hose and Cable Installation	
	Ref.	Ref.	Hose and Cable Installation, Mast, 7400 (See Figure 7-12a.)	
	Ref.	Ref.	Hose and Cable Installation, Mast, 7420 (See Figure 7-13a.)	
	Ref.	Ref.	Hose and Cable Installation, Mast, 7440 (See Figure 7-14a.)	

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List 2-1: Truck Major Assemblies (Sheet 2 of 2)

FIGURE 2-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	Ref.	Ref.	Hose and Cable Installation, Carriage, R35TT / R45TT (See Figure 7-21a.)	
	Ref.	Ref.	Hose and Cable Installation, Carriage, DR32TT (See Figure 7-22a.)	
	Ref.	Ref.	Hose Installation, Fore-Aft, AC Lift Motor (7400 EH < 331 in.) (See Figure 6-1.)	
	Ref.	Ref.	Hose Installation, Fore-Aft, AC Lift Motor (7400 EH > 330 in., 7420, 7440) (See Figure 6-2.)	
	Ref.	Ref.	Hose Installation, Fore-Aft, DC Lift Motor (See Figure 6-3a.)	
	Ref.	Ref.	Hose Installation, Side Stance, AC Lift Motor, No Aux Reservoir (7400 EH < 331 in.) (See Figure 6-4a.)	
	Ref.	Ref.	Hose Installation, Side Stance, AC Lift Motor, With Aux Reservoir (7400 EH > 330 in., 7420, 7440) (See Figure 6-5.)	
	Ref.	Ref.	Hose Installation, Side Stance, DC Lift Motor (See Figure 6-6.)	
6	Ref.	Ref.	Drive Unit	
	Ref.	Ref.	Drive Unit Installation (See Figure 4-1.)	
	Ref.	Ref.	Drive Unit Assembly (See Figure 4-3.)	
7	Ref.	Ref.	Brake	
	Ref.	Ref.	Electric Brake Installation (See Figure 4-4.)	
	Ref.	Ref.	Electric Brake Assembly (See Figure 4-5.)	
8	Ref.	Ref.	Motor Installations and Assemblies	
	Ref.	Ref.	Steer Motor Installation, DC Lift (See Figure 3-3a.)	
	Ref.	Ref.	Hydraulic Steer Motor Assembly (See Figure 3-4.)	
	Ref.	Ref.	Steer Motor Installation, AC Lift (See Figure 3-5.)	
	Ref.	Ref.	Steer Gearmotor Assembly, AC Lift (See Figure 3-6.)	
	Ref.	Ref.	Drive Motor Installation (See Figure 4-2.)	
	Ref.	Ref.	Drive Motor, AC, Danaher TSW (See Figure 5-11.)	
	Ref.	Ref.	Drive Motor, AC, Sauer Danfoss (See Figure 5-12.)	
	Ref.	Ref.	Lift Motor, DC (See Figure 5-13.)	
	Ref.	Ref.	Lift Motor, AC, Sauer Danfoss (See Figure 5-14a.)	
	Ref.	Ref.	Auxiliary Motor, DC Only (See Figure 5-15.)	
9	Ref.	Ref.	Manifold Assemblies	
	Ref.	Ref.	Main Manifold Assembly, 7400 AC Lift (See Figure 6-17a.)	
	Ref.	Ref.	Main Manifold Assembly, 7420 and 7440 AC Lift (See Figure 6-18a.)	
	Ref.	Ref.	Main Manifold Assembly, DC Lift (See Figure 6-20a.)	
	Ref.	Ref.	Auxiliary Manifold Assembly, Single Reach (See Figure 6-21.)	
	Ref.	Ref.	Reach Manifold Assembly, DR32TT (See Figure 6-22.)	
	Ref.	Ref.	Tilt Manifold Assembly, DR32TT (See Figure 6-23.)	
	Ref.	Ref.	Tilt and Sideshift Manifold Assembly, DR32TT (See Figure 6-24.)	

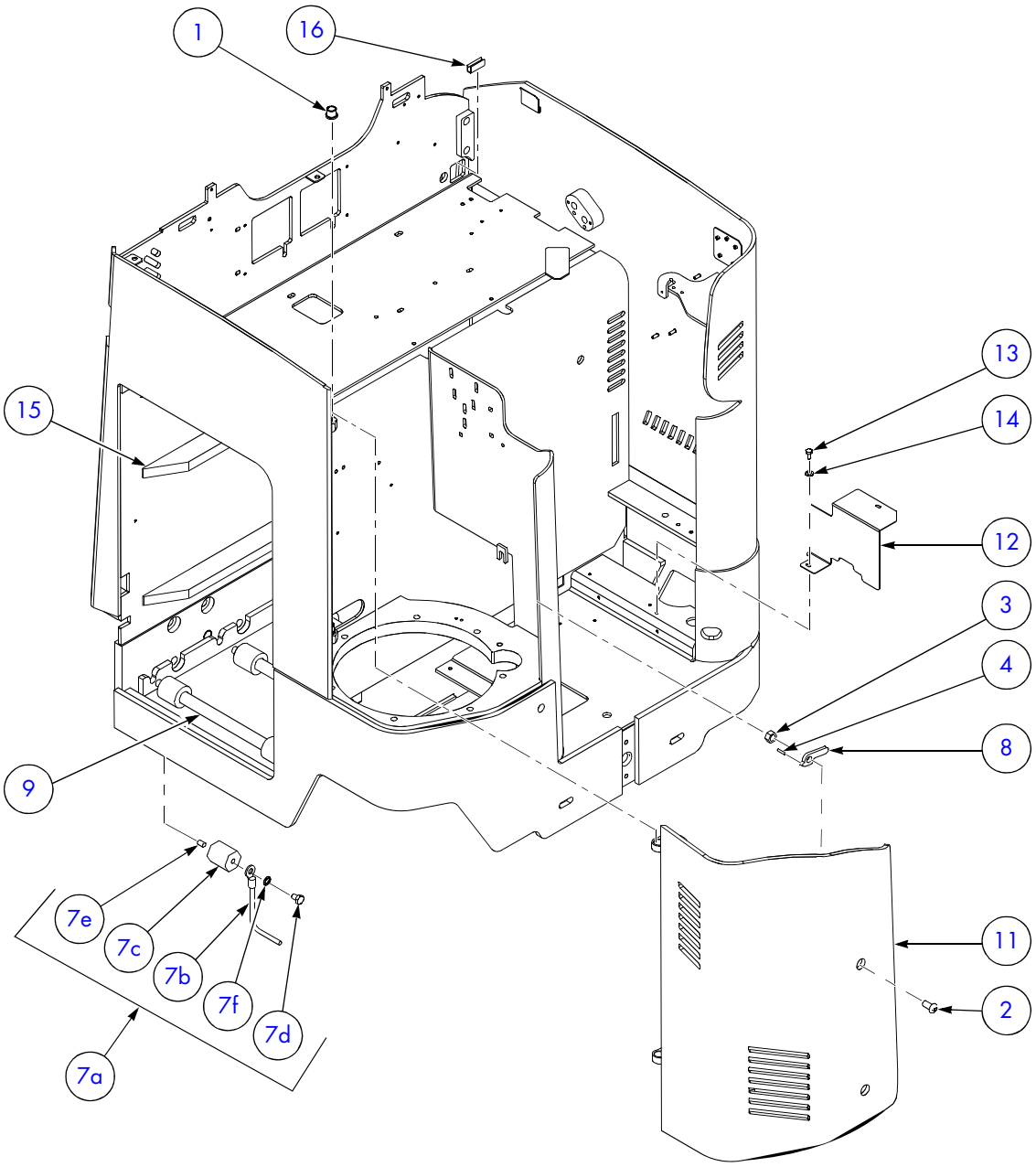
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Frame Assembly, Fore-Aft Stance

Figure 2-2: Frame Assembly, Fore-Aft Stance



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List 2-2: Frame Assembly, Fore-Aft Stance

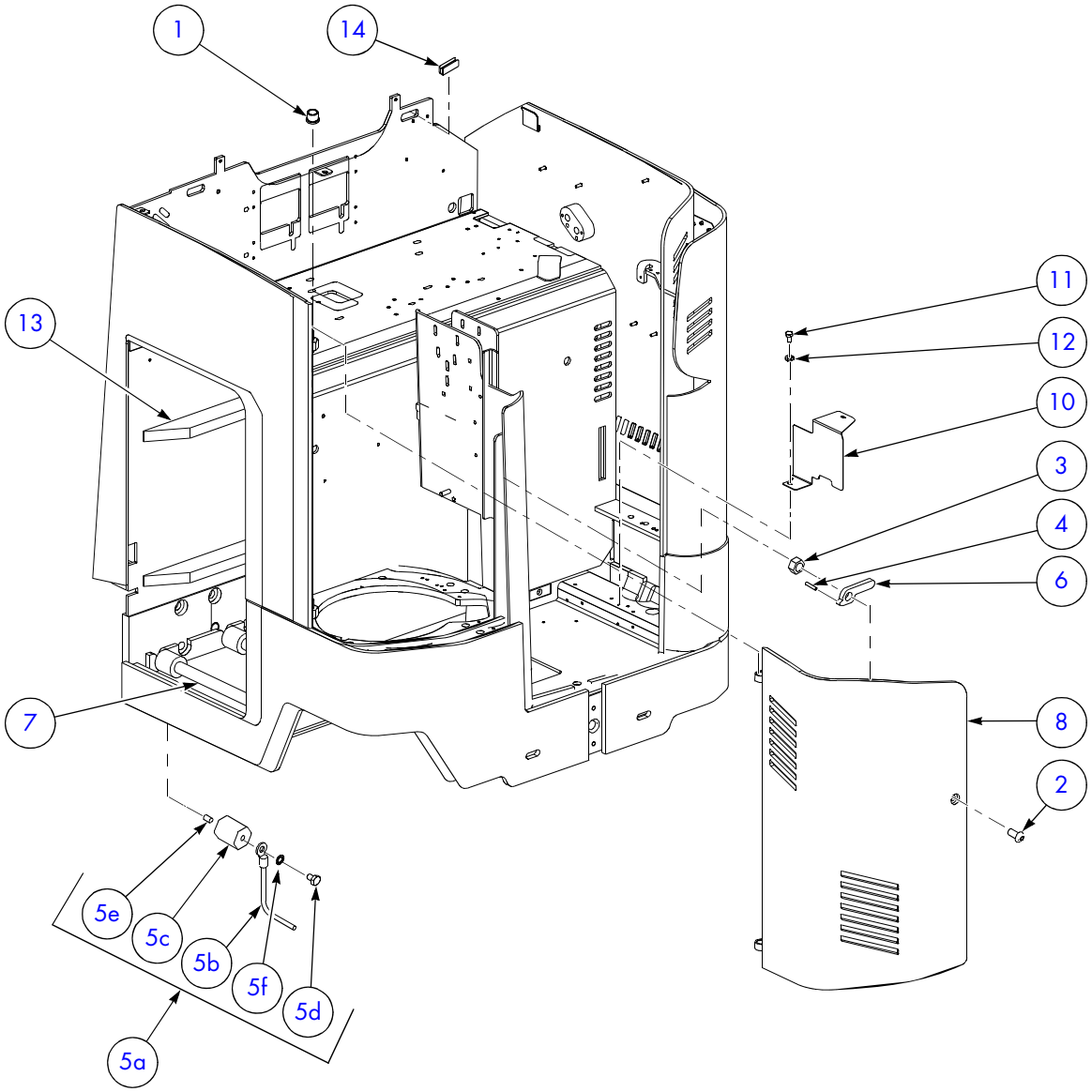
FIGURE 2-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	462-086	Bearing, Drive Motor Compartment Door	R
2	1	714-206	Screw	
3	1	760-130	Nut, Lock	
4	1	810-733	Pin, Spiral	
7a	1	154-009-117/001	Strap, Static, Insulated (includes:)	
	1	154-009-117/101	Strap, Static, Insulated (includes:)	D
7b	1	154-009-116/001	Cable, Drag	
	1	154-009-116/101	Cable, Drag	D
7c	1	170-000-703	Insulator	
7d	1	710-004	Screw	
7e	1	724-412	Screw, Set	
7f	1	774-016	Washer, Lock	
8	1	828-004-421	Bracket, Latch	
9	5	Ref.	Roller Assembly, Battery (See Figure 2-4.)	
11	1	1045442	Door Weldment	A
	1	1045984	Door Weldment	B
12	1	1015159	Cover, Dust	
13	2	5-001-001	Screw	
14	2	5-018-005	Washer, Flat	
15	1	1023202	Adjuster, 2 inch Battery Spacer	C
16	2	360-037/008	Guard, Cable	

A= Models 7400 and 7420
B= Model 7440
C= For 18.5 in. Battery Compartment Modified to 16.5 in.
D= EE
R= Recommended Spare

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Frame Assembly, Side Stance

Figure 2-3: Frame Assembly, Side Stance



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List 2-3: Frame Assembly, Side Stance

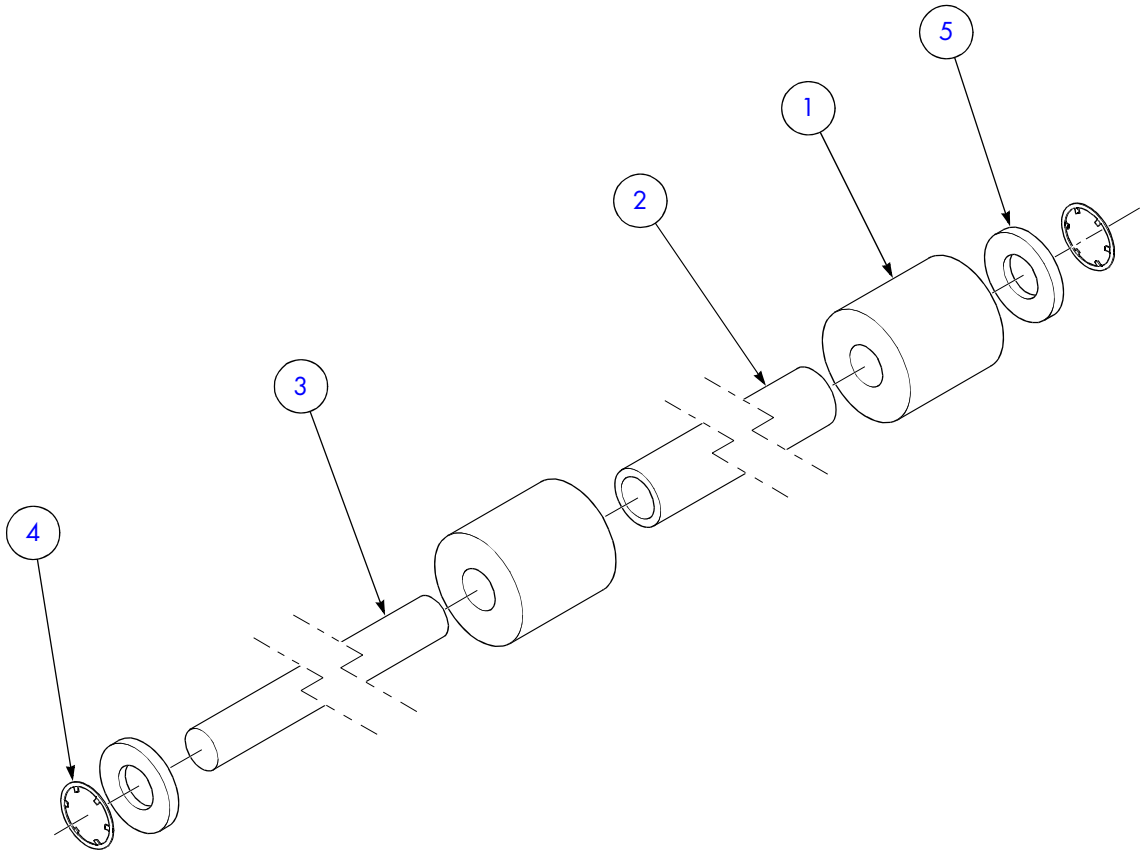
FIGURE 2-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	462-086	Bearing, Drive Motor Compartment Door	R
2	1	714-206	Screw	
3	1	760-130	Nut, Lock	
4	1	810-733	Pin, Spiral	
5a	1	154-009-117/001	Strap, Static, Insulated (includes:)	
	1	154-009-117/101	Strap, Static, Insulated (includes:)	D
5b	1	154-009-116/001	Cable, Drag	
	1	154-009-116/101	Cable, Drag	D
5c	1	170-000-703	Insulator	
5d	1	710-004	Screw	
5e	1	724-412	Screw, Set	
5f	1	774-016	Washer, Lock	
6	1	828-004-421	Bracket, Latch	
7	5	Ref.	Roller Assembly (See Figure 2-4.)	
8	1	1048017	Door Weldment	A
	1	1045985	Door Weldment	B
10	1	1016046	Cover, Dust	
11	2	5-001-001	Screw	
12	2	5-018-005	Washer, Flat	
13	1	1023202	Adjuster, 2 inch Battery Spacer	C
14	2	360-037/008	Guard, Cable	

A= Models 7400 and 7420
B= Model 7440
C= For 18.5 in. Battery Compartment Modified to 16.5 in.
D= EE
R= Recommended Spare

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Roller Assembly, Battery

Figure 2-4: Roller Assembly, Battery



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List 2-4: Roller Assembly, Battery

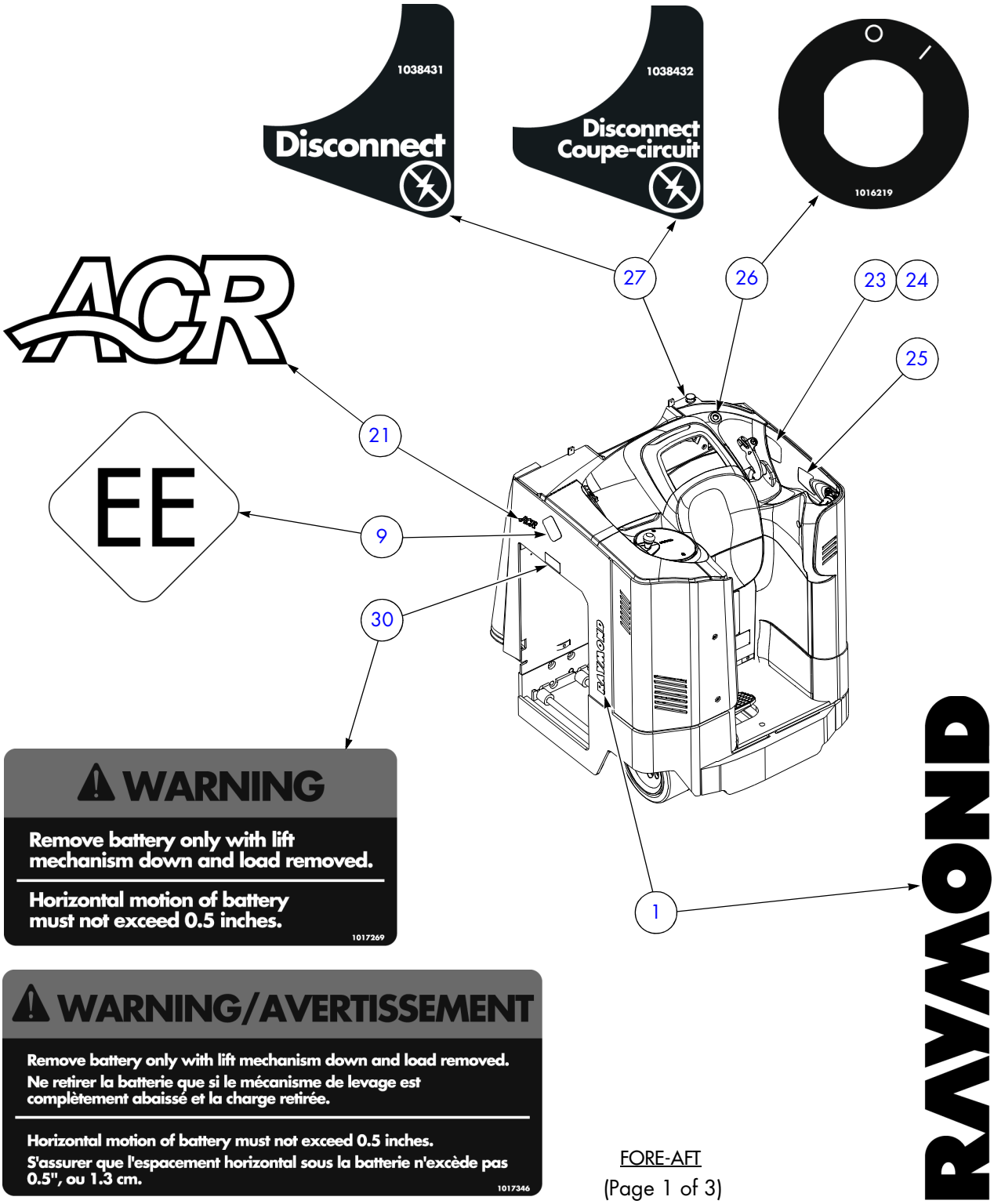
FIGURE 2-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	5	828-006-727/001	Roller Assembly, Battery	A
	5	828-006-727/006	Roller Assembly, Battery	B
	5	828-006-727/002	Roller Assembly, Battery	C
	5	828-006-727/016	Roller Assembly, Battery	D
1	2	123-001-382	Roller, Battery	R
2	1	828-001-429/004	Spacer, 10.5 in.	A
	1	828-001-429/005	Spacer, 15.5 in.	B
	1	828-001-429/011	Spacer, 12.5 in.	C
	1	828-001-429/024	Spacer, 8.0 in.	D
3	1	828-001-335/009	Shaft, Roller	A
	1	828-001-335/013	Shaft, Roller	B, D
	1	828-001-335/010	Shaft, Roller	C
4	2	810-488/014	Ring, Retaining, Push-On	
5	2	771-127	Washer, Flat	

A= 16.5 in. Battery Compartment
B= 18.5 in. Battery Compartment
C= 21.5 in. Battery Compartment
D= For 18.5 in. Battery Compartment Modified to 16.5 in. (Use quantity 4 of Items 1 and 5)
R= Recommended Spare

https://truckmanualshub.com/

Finish Instructions

Figure 2-5a: Finish Instructions



FORE-AFT

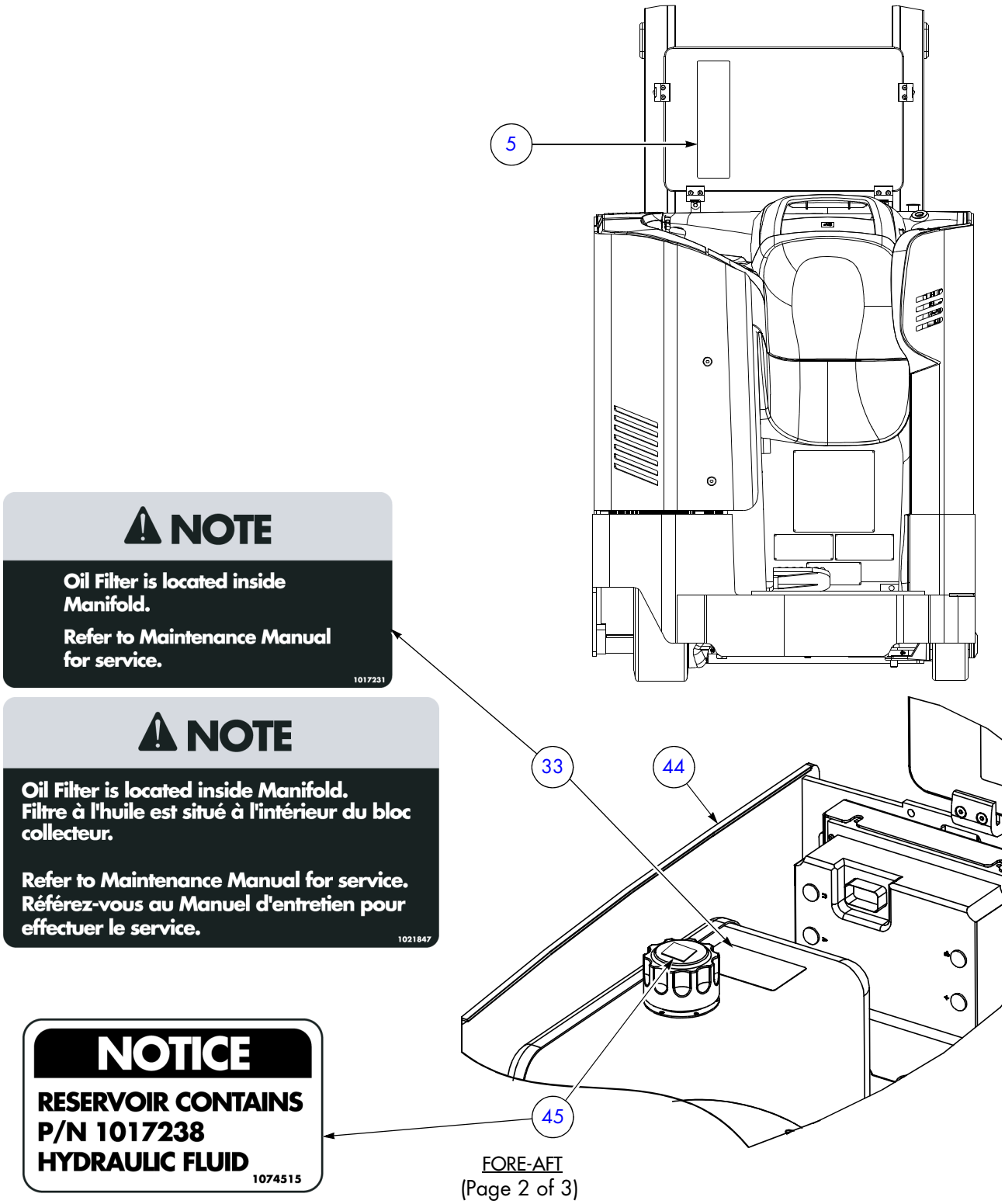
(Page 1 of 3)

1038431, 1038432, R1016219, 1039365, R412_574, R1017269, R1017346, R411_511, R1017410_J1 SHT 1 OF 15

https://truckmanualshub.com/

Finish Instructions

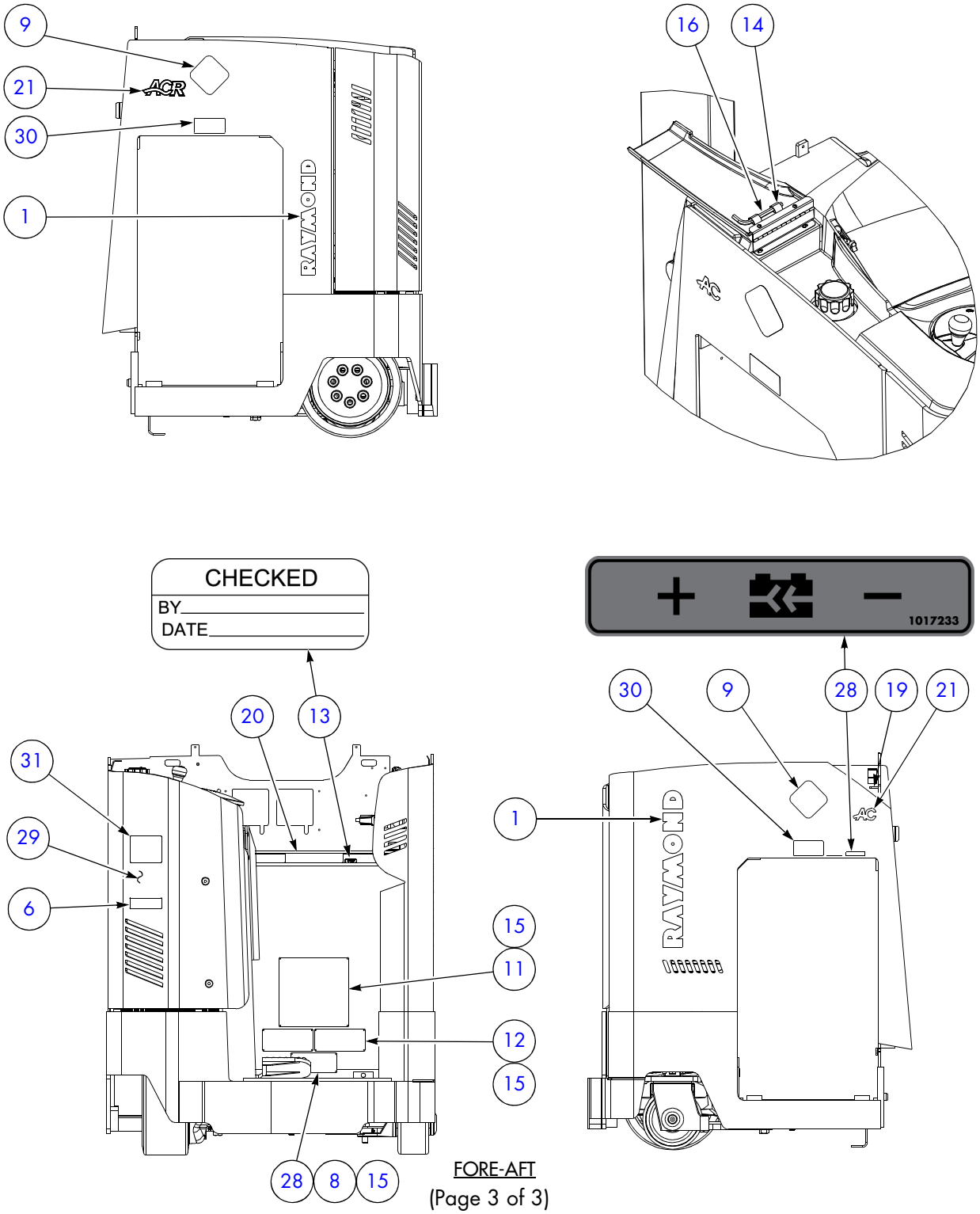
Figure 2-5b: Finish Instructions



https://truckmanualshub.com/

Finish Instructions

Figure 2-5c: Finish Instructions



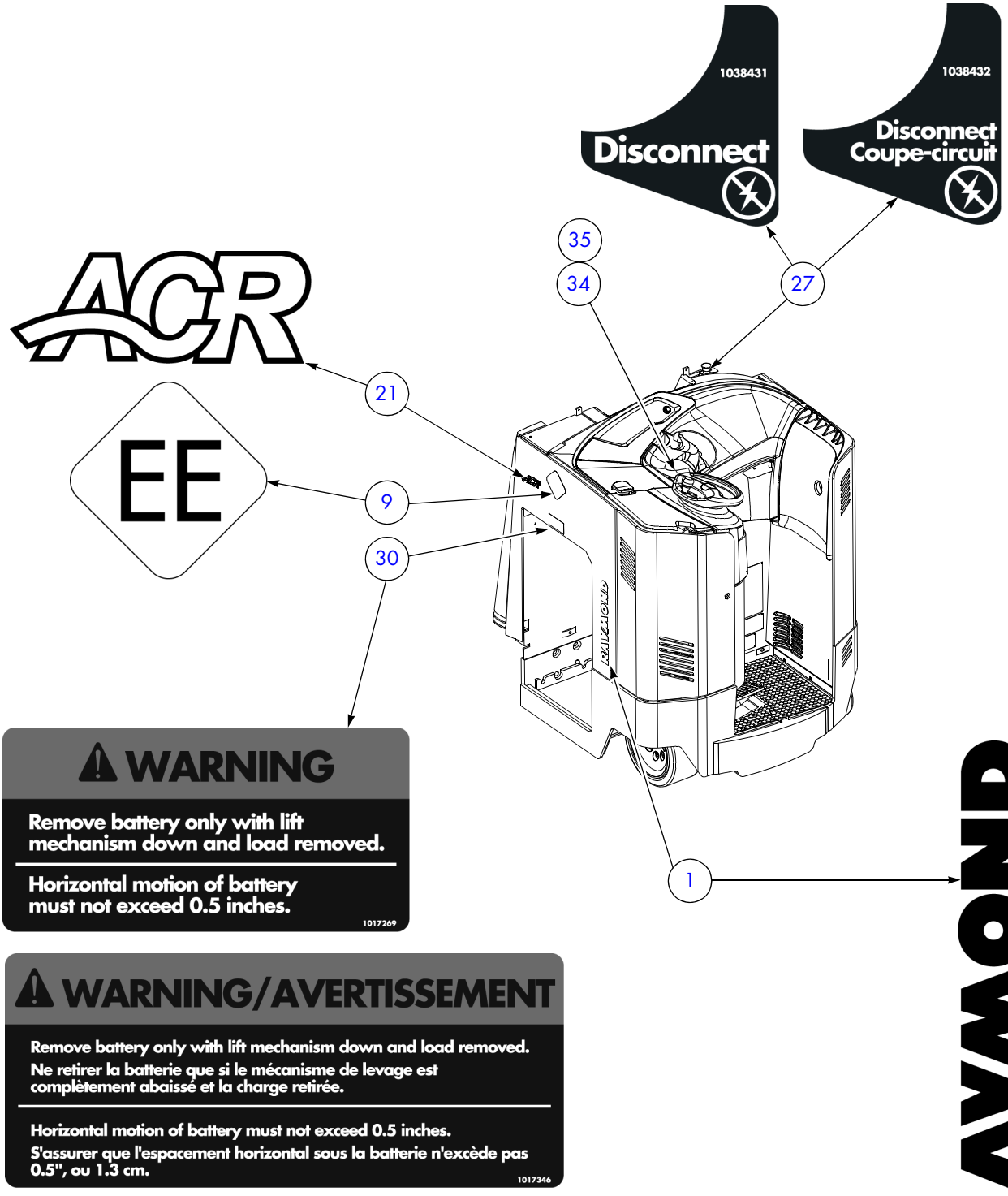
FORE-AFT
(Page 3 of 3)

R1017410_J3, R1017410_B7, R412_898_A, R1017233, R1017410_B5, R1017410_B6 SHT 3 OF 15

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Finish Instructions

Figure 2-5d: Finish Instructions



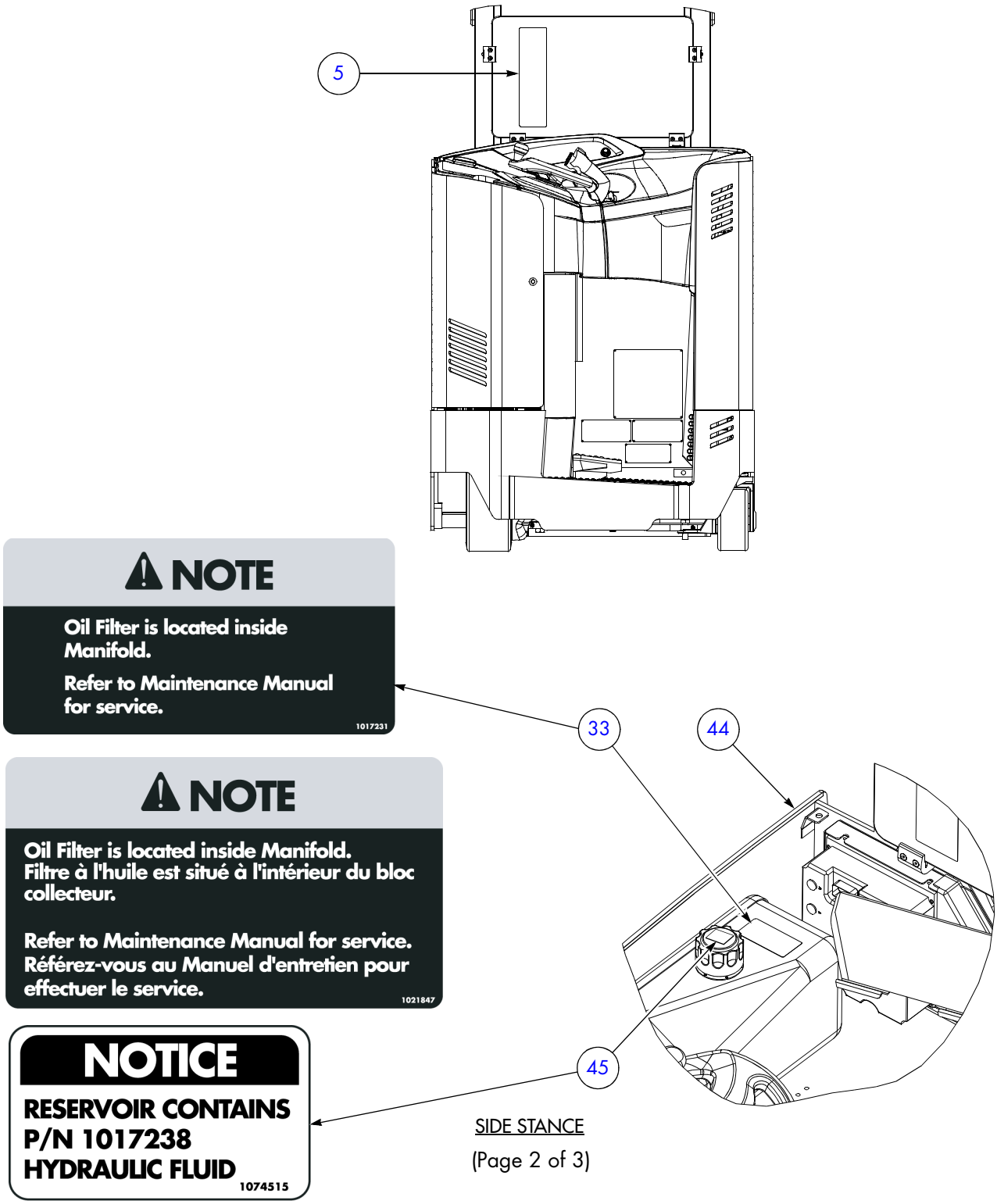
SIDE STANCE
(Page 1 of 3)

1038431, 1038432, 1039365, R412_574, R1017269, R1017346, R411_511, R101652_G1 SHT 4 OF 15

https://truckmanualshub.com/

Finish Instructions

Figure 2-5e: Finish Instructions



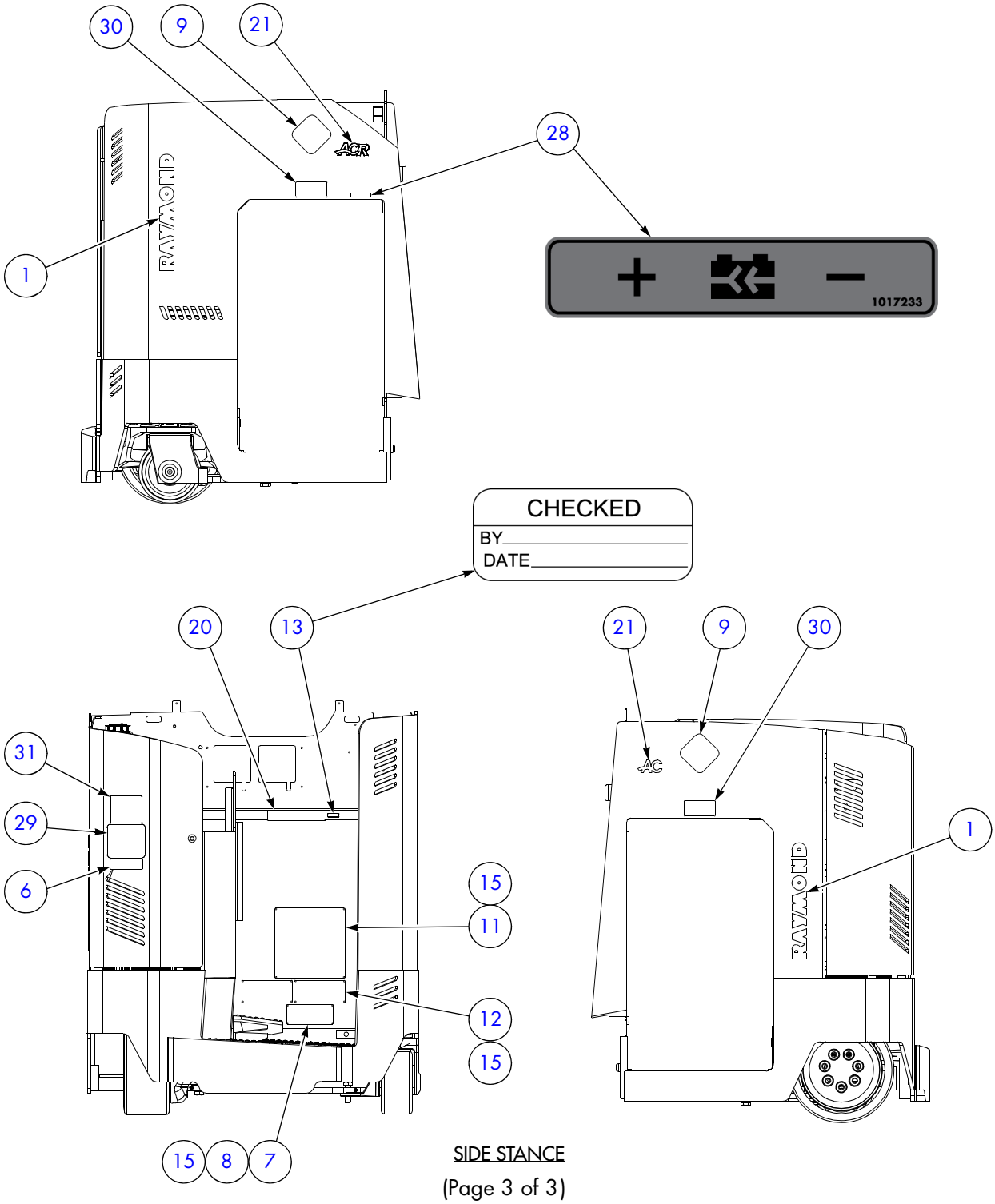
(Page 2 of 3)

R1010652_B3, R1017231, 1021847, R1010652_M1, 1074515_09MAR07_BW SHT 5 OF 15

https://truckmanualshub.com/

Finish Instructions

Figure 2-5f: Finish Instructions

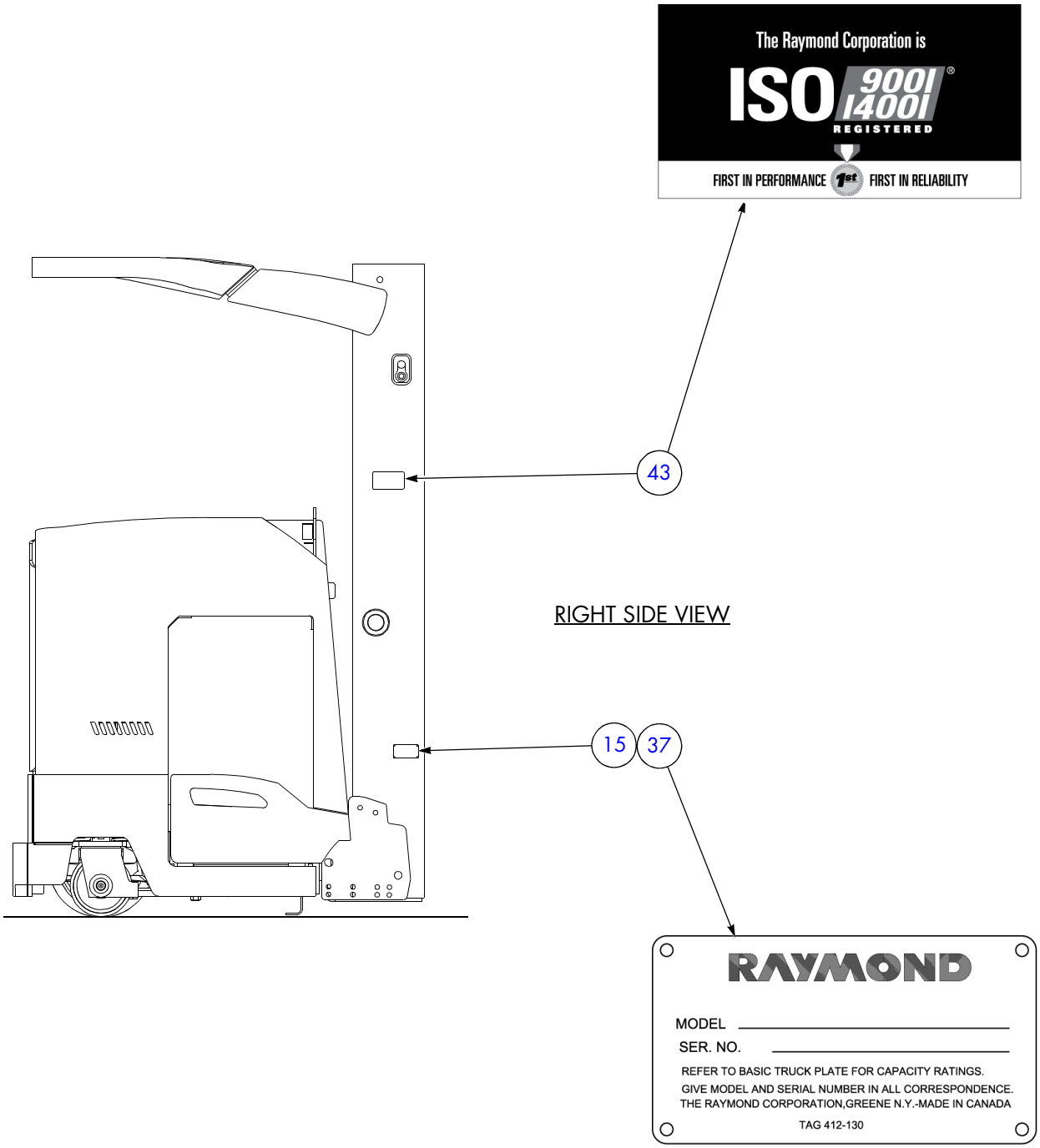


R1010652_G4, R1017233, R412_898_A, R1010652_B6, R1010652_B5 SHT 6 OF 15

https://truckmanualshub.com/

Finish Instructions

Figure 2-5g: Finish Instructions



MAST

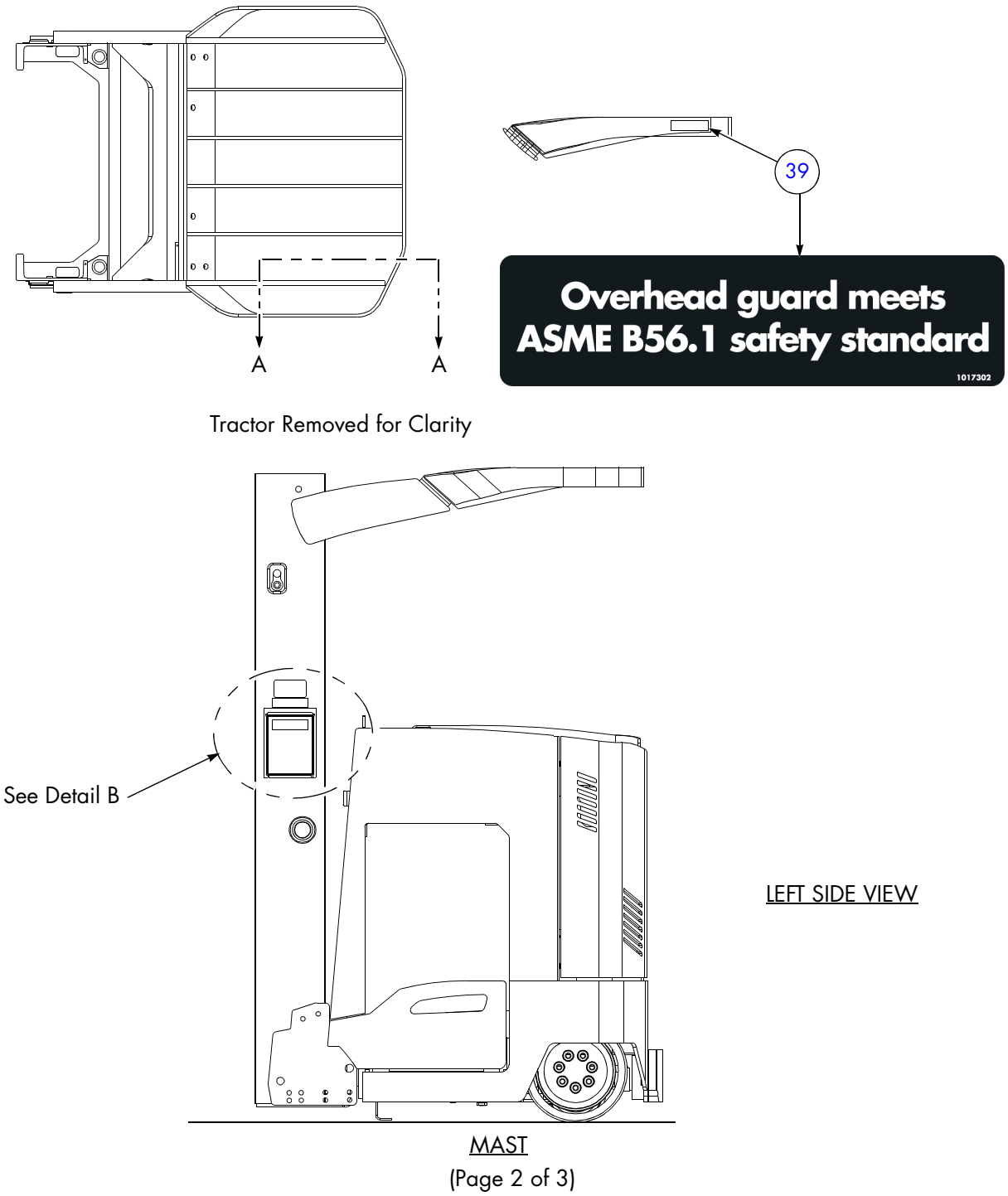
(Page 1 of 3)

R412_816, R1017504_A1, R412_130_C SHT 7 OF 15

https://truckmanualshub.com/

Finish Instructions

Figure 2-5h: Finish Instructions



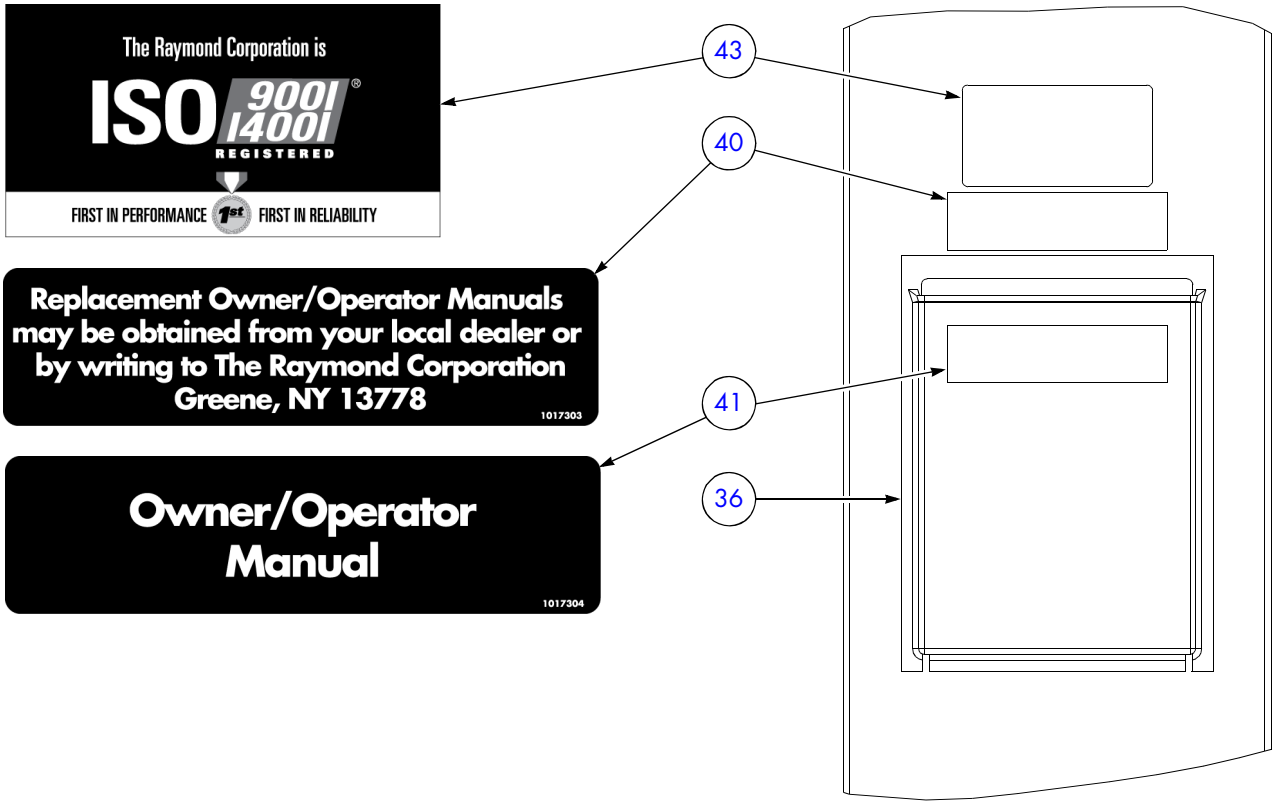
(Page 2 of 3)

R1017504_A3, R1017302, R1017504_A2 SHT 8 OF 15

https://truckmanualshub.com/

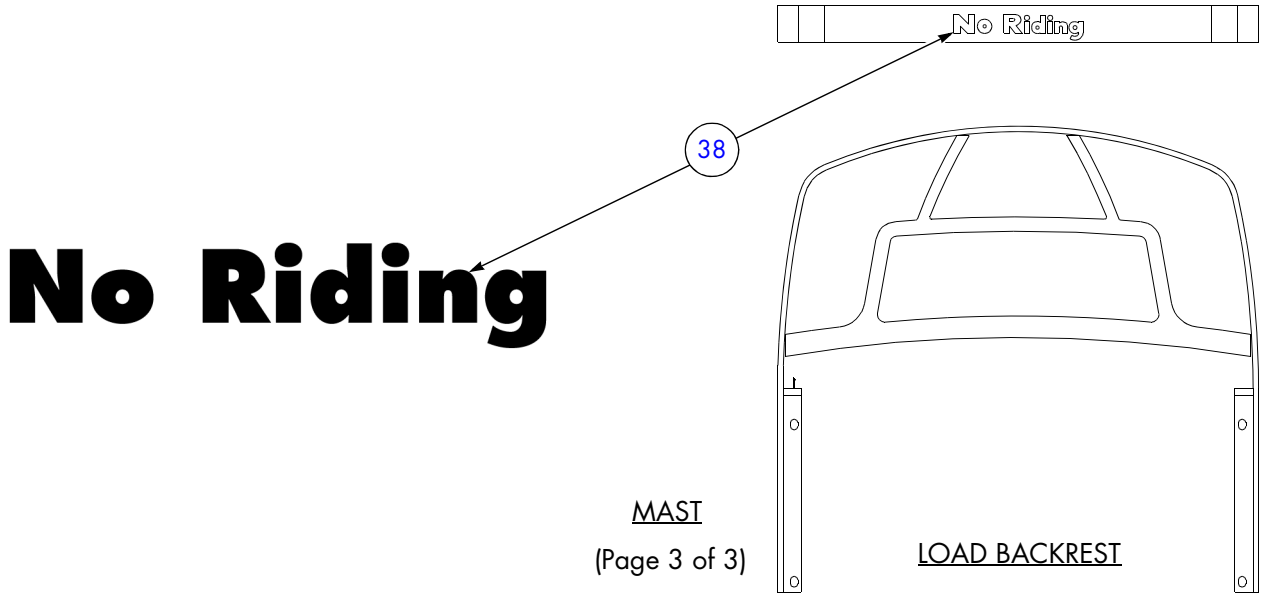
Finish Instructions

Figure 2-5i: Finish Instructions



DETAIL B

(Enlarged for Clarity)



MAST

(Page 3 of 3)

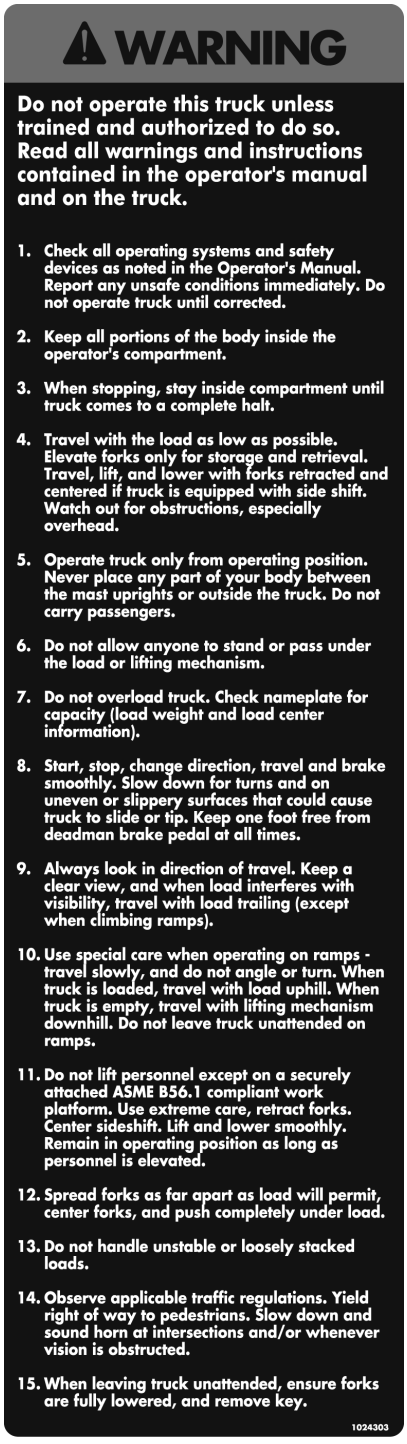
LOAD BACKREST

R412_816, R1017303, R1017304, R411_587, R1017504_A4, RT1017504_A5 SHT 9 OF 15

https://truckmanualshub.com/

Finish Instructions

Figure 2-5j: Finish Instructions



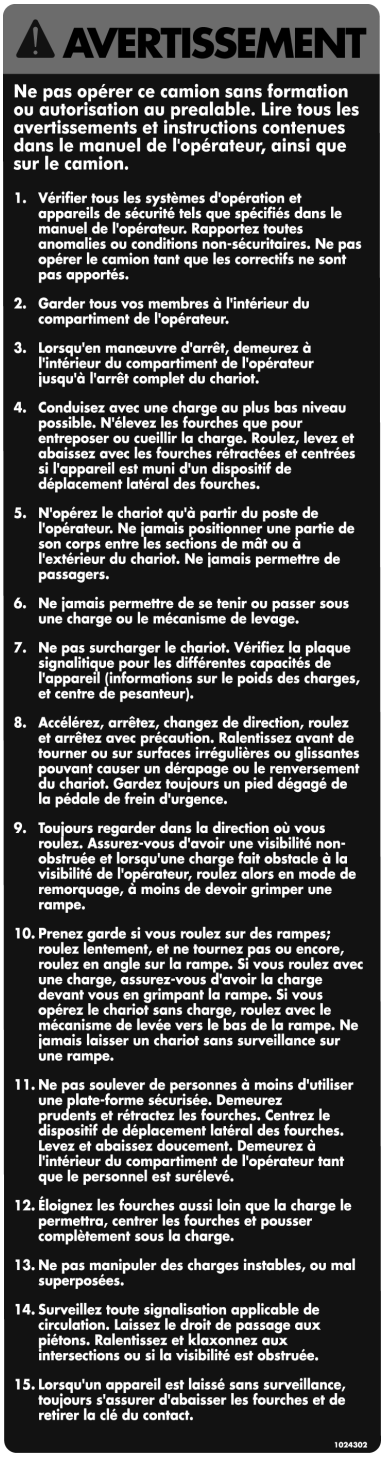
⚠ WARNING

Do not operate this truck unless trained and authorized to do so. Read all warnings and instructions contained in the operator's manual and on the truck.

1. Check all operating systems and safety devices as noted in the Operator's Manual. Report any unsafe conditions immediately. Do not operate truck until corrected.
2. Keep all portions of the body inside the operator's compartment.
3. When stopping, stay inside compartment until truck comes to a complete halt.
4. Travel with the load as low as possible. Elevate forks only for storage and retrieval. Travel, lift, and lower with forks retracted and centered if truck is equipped with side shift. Watch out for obstructions, especially overhead.
5. Operate truck only from operating position. Never place any part of your body between the mast uprights or outside the truck. Do not carry passengers.
6. Do not allow anyone to stand or pass under the load or lifting mechanism.
7. Do not overload truck. Check nameplate for capacity (load weight and load center information).
8. Start, stop, change direction, travel and brake smoothly. Slow down for turns and on uneven or slippery surfaces that could cause truck to slide or tip. Keep one foot free from deadman brake pedal at all times.
9. Always look in direction of travel. Keep a clear view, and when load interferes with visibility, travel with load trailing (except when climbing ramps).
10. Use special care when operating on ramps - travel slowly, and do not angle or turn. When truck is loaded, travel with load uphill. When truck is empty, travel with lifting mechanism downhill. Do not leave truck unattended on ramps.
11. Do not lift personnel except on a securely attached ASME B56.1 compliant work platform. Use extreme care, retract forks. Center sideshift. Lift and lower smoothly. Remain in operating position as long as personnel is elevated.
12. Spread forks as far apart as load will permit, center forks, and push completely under load.
13. Do not handle unstable or loosely stacked loads.
14. Observe applicable traffic regulations. Yield right of way to pedestrians. Slow down and sound horn at intersections and/or whenever vision is obstructed.
15. When leaving truck unattended, ensure forks are fully lowered, and remove key.

1024303

Item 5 - P/N 1030140
(English)



⚠ AVERTISSEMENT

Ne pas opérer ce camion sans formation ou autorisation au prealable. Lire tous les avertissements et instructions contenues dans le manuel de l'opérateur, ainsi que sur le camion.

1. Vérifier tous les systèmes d'opération et appareils de sécurité tels que spécifiés dans le manuel de l'opérateur. Rapportez toutes anomalies ou conditions non-sécuritaires. Ne pas opérer le camion tant que les correctifs ne sont pas apportés.
2. Garder tous vos membres à l'intérieur du compartiment de l'opérateur.
3. Lorsqu'en manœuvre d'arrêt, demeurez à l'intérieur du compartiment de l'opérateur jusqu'à l'arrêt complet du chariot.
4. Conduisez avec une charge au plus bas niveau possible. N'élevez les fourches que pour entreposer ou cueillir la charge. Roulez, levez et abaissez avec les fourches rétractées et centrées si l'appareil est muni d'un dispositif de déplacement latéral des fourches.
5. N'opérez le chariot qu'à partir du poste de l'opérateur. Ne jamais positionner une partie de son corps entre les sections de mât ou à l'extérieur du chariot. Ne jamais permettre de passagers.
6. Ne jamais permettre de se tenir ou passer sous une charge ou le mécanisme de levage.
7. Ne pas surcharger le chariot. Vérifiez la plaque signalitique pour les différentes capacités de l'appareil (informations sur le poids des charges, et centre de pesanteur).
8. Accélérez, arrêtez, changez de direction, roulez et arrêtez avec précaution. Ralentissez avant de tourner ou sur surfaces irrégulières ou glissantes pouvant causer un dérapage ou le renversement du chariot. Gardez toujours un pied dégagé de la pédale de frein d'urgence.
9. Toujours regarder dans la direction où vous roulez. Assurez-vous d'avoir une visibilité non-obstruée et lorsqu'une charge fait obstacle à la visibilité de l'opérateur, roulez alors en mode de remorquage, à moins de devoir grimper une rampe.
10. Prenez garde si vous roulez sur des rampes; roulez lentement, et ne tournez pas ou encore, roulez en angle sur la rampe. Si vous roulez avec une charge, assurez-vous d'avoir la charge devant vous en grimpant la rampe. Si vous opérez le chariot sans charge, roulez avec le mécanisme de levée vers le bas de la rampe. Ne jamais laisser un chariot sans surveillance sur une rampe.
11. Ne pas soulever de personnes à moins d'utiliser une plate-forme sécurisée. Demeurez prudents et rétractez les fourches. Centrez le dispositif de déplacement latéral des fourches. Levez et abaissez doucement. Demeurez à l'intérieur du compartiment de l'opérateur tant que le personnel est surélevé.
12. Éloignez les fourches aussi loin que la charge le permettra, centrer les fourches et pousser complètement sous la charge.
13. Ne pas manipuler des charges instables, ou mal superposées.
14. Surveillez toute signalisation applicable de circulation. Laissez le droit de passage aux piétons. Ralentissez et klaxonnez aux intersections ou si la visibilité est obstruée.
15. Lorsqu'un appareil est laissé sans surveillance, toujours s'assurer d'abaisser les fourches et de retirer la clé du contact.

1024302

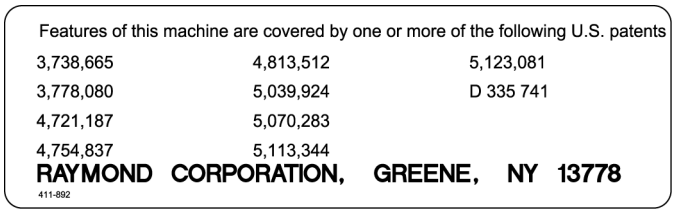
Item 5 - P/N 1030141
(French)

1024303 02MAR04, 1024302 19MAR04 SHT 10 OF 15

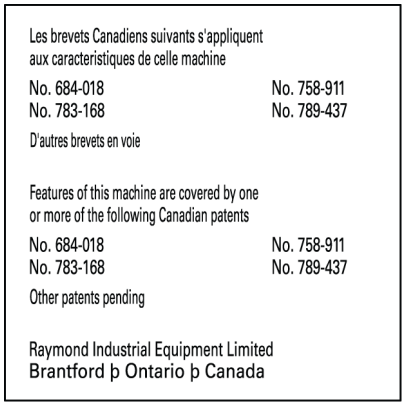
https://truckmanualshub.com/

Finish Instructions

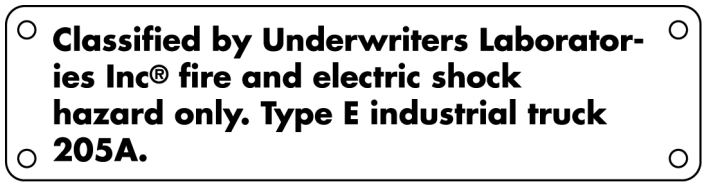
Figure 2-5k: Finish Instructions



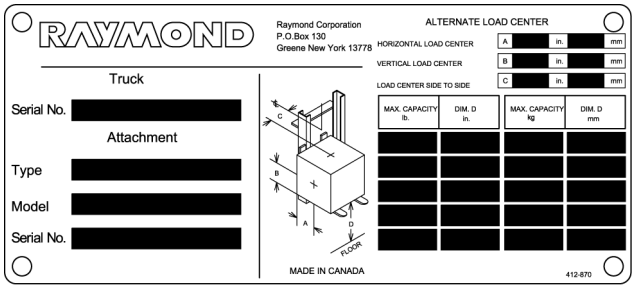
Item 6 - P/N 411-892



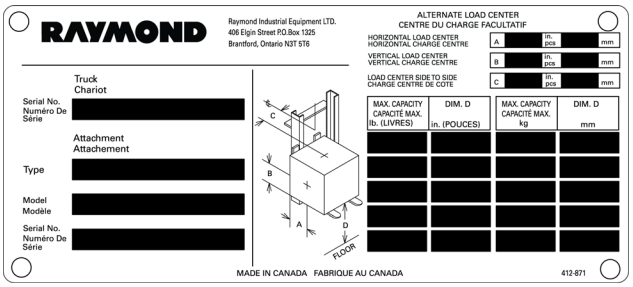
Item 6 - P/N 411-465



Item 7 - P/N 412-326



Item 12 - P/N 412-870



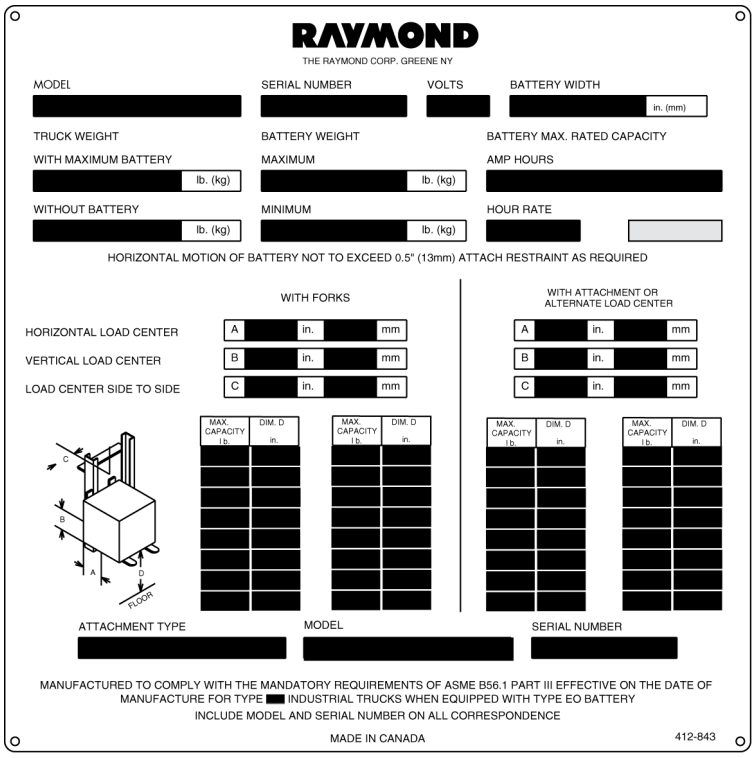
Item 12 - P/N 412-871

R411_892_B, 411_645, R412_326, R412_870_B, 412_871 SHT 11 OF 15

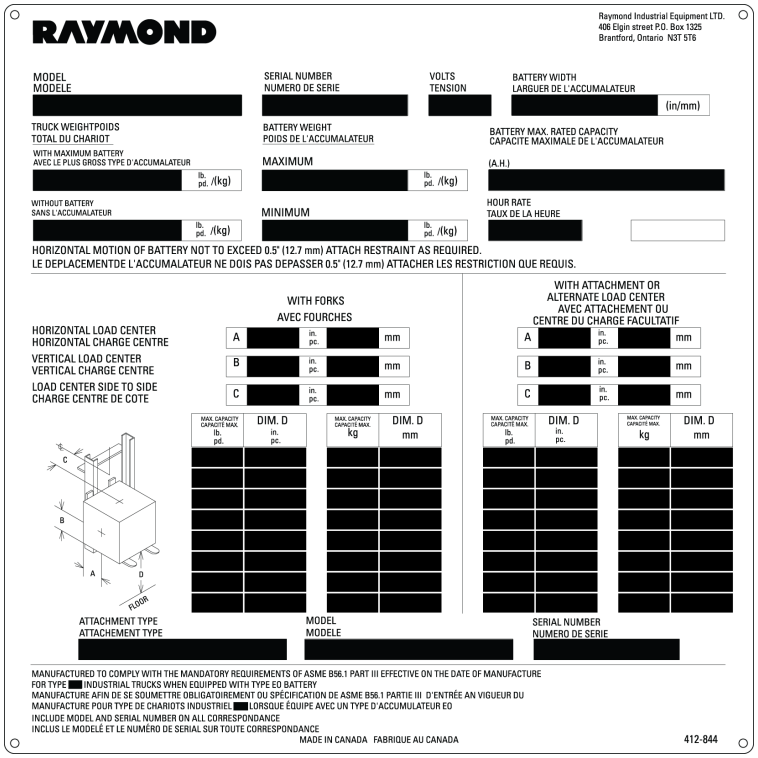
https://truckmanualshub.com/

Finish Instructions

Figure 2-5l: Finish Instructions



Item 11- P/N 412-843

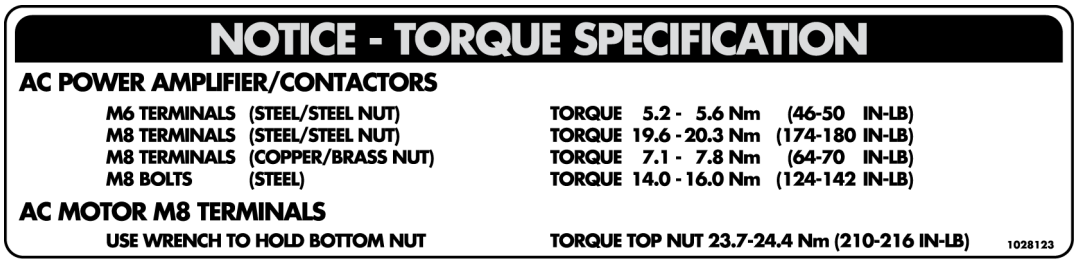


Item 11- P/N 412-844

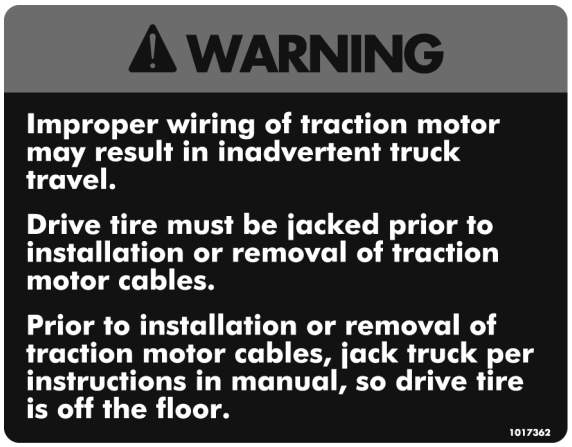
https://truckmanualshub.com/

Finish Instructions

Figure 2-5m: Finish Instructions



Item 20 - P/N 1028123



Item 31 - P/N 1017362



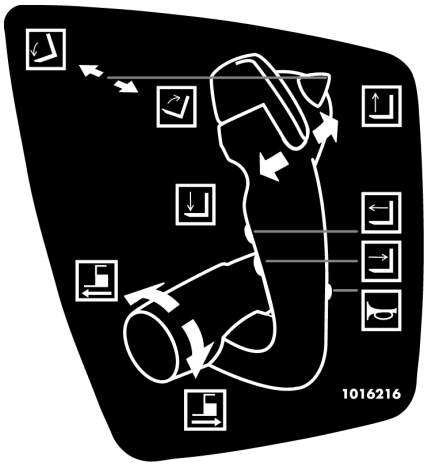
Item 31- P/N 1021660

R1028123 07MAY04, R1017362, 1021660 SHT 13 OF 15

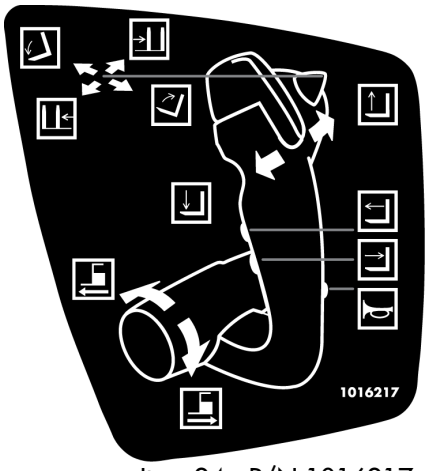
https://truckmanualshub.com/

Finish Instructions

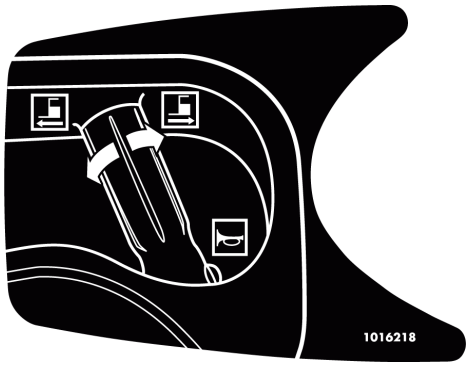
Figure 2-5n: Finish Instructions



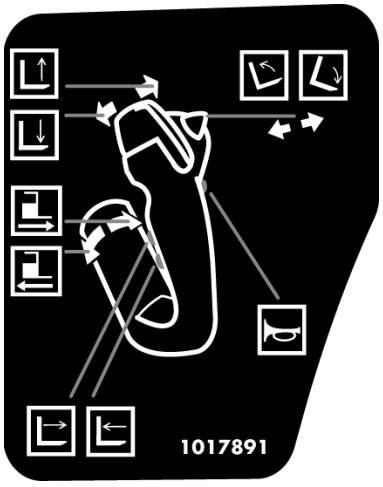
Item 23 - P/N 1016216
Fore-Aft Only



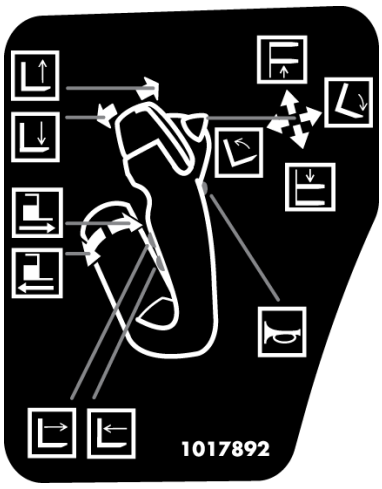
Item 24 - P/N 1016217
Fore-Aft Only



Item 25 - P/N 1016218



Item 34 - P/N 1017891
Side Stance Only



Item 35 - P/N 1017892
Side Stance Only

R1016216, R1016217, R1016218, R1017891, R1017892 SHT 14 OF 15

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Finish Instructions

Figure 2-5o: Finish Instructions

APPROVED RAYMOND LUBRICANTS		
WHERE USED	**RAYMOND PART NUMBER**	**INTERVAL**
DRIVE UNIT	GEAR OIL 990-655	2000 HD
LIFT CHAINS	SPRAY LUBE 990-652/001	500 HD
COLD STORAGE HYDRAULIC SYSTEM	HYDRAULIC FLUID 1017238	2000 HD
STANDARD HYDRAULIC SYSTEM	HYDRAULIC FLUID 990-616	2000 HD
LIFT PUMP SPLINE	GREASE 990-638	2000 HD
MAST BEARINGS AND SLIDES	GREASE 1012992	500 HD
WHEEL BEARINGS AND CHASSIS	GREASE 1012992	500 HD

1025648

Item 29 - P/N 1025648

APPROVED RAYMOND LUBRICANTS LUBRIFIANTS RAYMOND APPROUVÉS		
WHERE USED UTILISATION	**RAYMOND PART NUMBER NUMÉRO DE PIÈCES RAYMOND**	**INTERVAL INTERVALE**
DRIVE UNIT TRANSMISSION	GEAR OIL HUILE À ENGRENAGE 990-655	2000 HD
LIFT CHAINS CHAÎNES DE LEVAGE	SPRAY LUBE LUBRIFIANTS EN VAPORISATEUR 990-652/001	500 HD
COLD STORAGE HYDRAULIC SYSTEM SYSTÈME HYDRAULIQUE (CONGÉLATEUR)	HYDRAULIC FLUID LIQUIDE HYDRAULIQUE 1017238	2000 HD
STANDARD HYDRAULIC SYSTEM SYSTÈME HYDRAULIQUE (STANDARD)	HYDRAULIC FLUID LIQUIDE HYDRAULIQUE 990-616	2000 HD
LIFT PUMP SPLINE ACCOUPLEMENT DE POMPE DE LEVAGE	GREASE GRAISSE 990-638	2000 HD
MAST BEARINGS AND SLIDES ROULEMENT DE MÂT ET SECTIONS	GREASE GRAISSE 1012992	500 HD
WHEEL BEARINGS AND CHASSIS ROULEMENT DE ROUES ET CHASSIS	GREASE GRAISSE 1012992	500 HD

1025647

Item 29 - P/N 1025647

1025648_B, 1025647_B SHT 15 OF 15

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List 2-5: Finish Instructions (Sheet 1 of 2)

FIGURE 2-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	411-511/015	Decal, Raymond, 15 in. (White)	
	4	411-511/115	Decal, Raymond, 15 in. (Black)	
5	1	1030140	Decal, General Warning (English)	
	1	1030141	Decal, General Warning (French)	
6	1	411-892	Decal, Patent (English)	
	1	411-645	Decal, Patent (French)	
7	1	1066855/002	Plate, UL Type E	
8	1	Ref.	Plate, UL Type EE (Consult Factory)	
9	2	Ref.	Decal, UL Type EE	
11	1	412-843	Plate, Specification, Tractor (English)	
	1	412-844	Plate, Specification, Tractor (French)	
12	AR	412-870	Plate, Auxiliary Specification (English)	
	AR	412-871	Plate, Auxiliary Specification (French)	
13	1	412-898	Label, Quality Certification	
14	2	811-322	Clamp, Cable	
15	AR	813-570/002	Stud	
16	1	950-104	Wrench, Allen	
19	1	Ref.	Connector Assembly, Battery (See Figure 5-23.)	
20	1	1028123	Decal, Torque Specification Plate	
21	2	1039365	Decal, ACR	
23	1	1016216	Decal, Reach and Tilt	A
24	1	1016217	Decal, Reach, Tilt, and Sideshift	A
25	AR	1016218	Decal, Control Handle, Secondary	A
26	1	1016219	Decal, Key Switch	A
27	1	1038431	Decal, EPO Switch (English)	
	1	1038432	Decal, EPO Switch (French)	
28	1	1017233	Decal, Battery Connector	
29	1	1025648	Decal, Lubrication (English)	
	1	1025647	Decal, Lubrication (French)	
30	2	1017269	Decal, Battery Warning (English)	
	2	1017346	Decal, Battery Warning (French)	
31	1	1017362	Decal, Traction Motor (English)	
	1	1021660	Decal, Traction Motor (French)	
33	1	1017231	Decal, Oil Filter (English)	
	1	1021847	Decal, Oil Filter (French)	
34	1	1017891	Decal, Reach and Tilt	B
35	1	1017892	Decal, Reach with Tilt and Sideshift	B
36	1	828-006-843	Pocket, Manual	
37	1	412-130	Plate, Specification, Mast	
38	1	411-587/004	Decal, No Riding	
39	1	1017302	Decal, Overhead Guard	
40	1	1017303	Decal, Manual Replacement	
41	1	1017304	Decal, Operating Instructions	

A= Fore-Aft Stance
B= Side Stance

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List 2-5: Finish Instructions (Sheet 2 of 2)

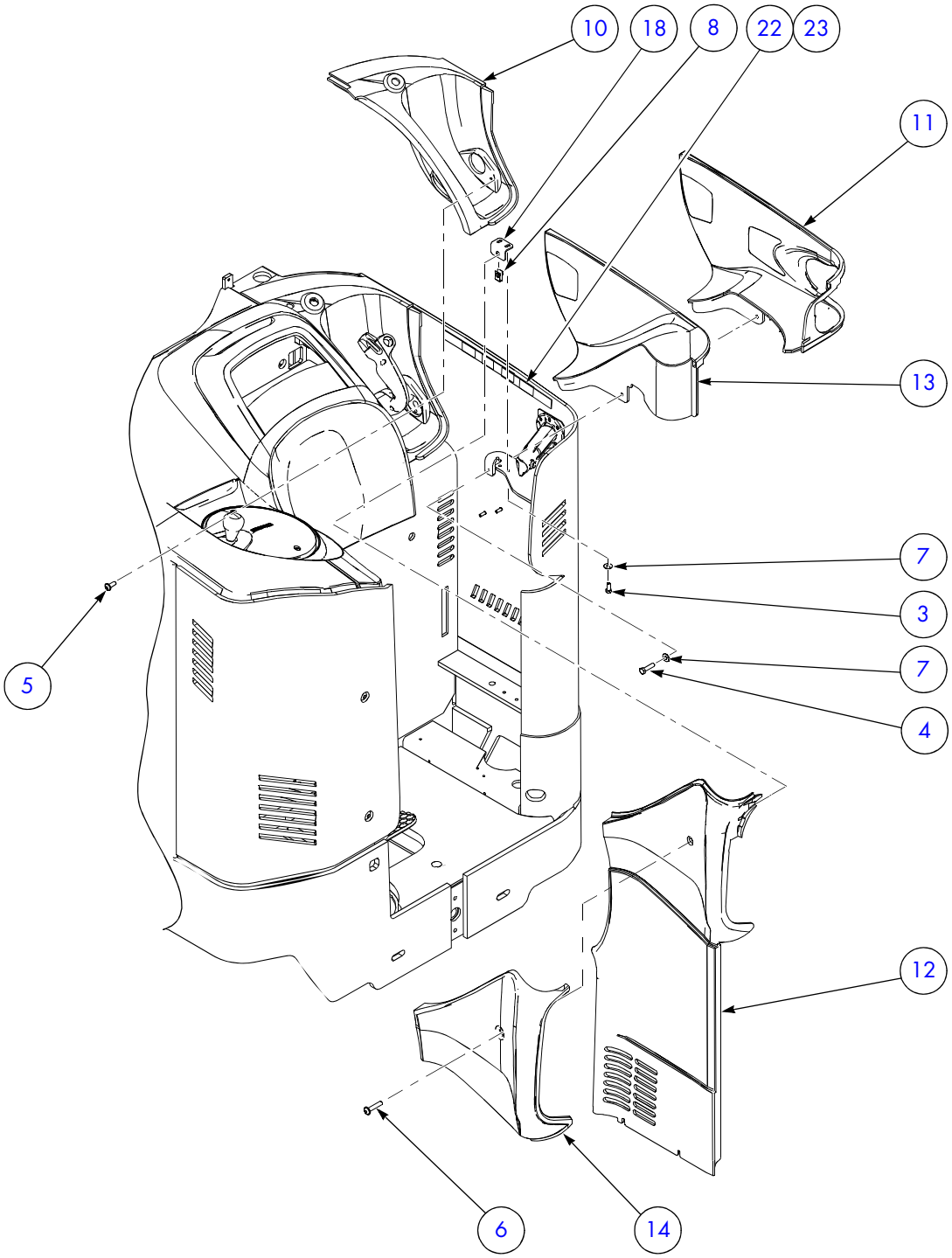
FIGURE 2-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
43	2	412-816	Decal, ISO9001	
44	AR	1037262	Tape, Sponge Rubber	
45	1	1074515	Decal, Cold Storage Oil Installed	

A= Fore-Aft Stance
B= Side Stance

https://truckmanualshub.com/

Cover Installation, Fore-Aft Stance

Figure 2-6a: Cover Installation, Fore-Aft Stance

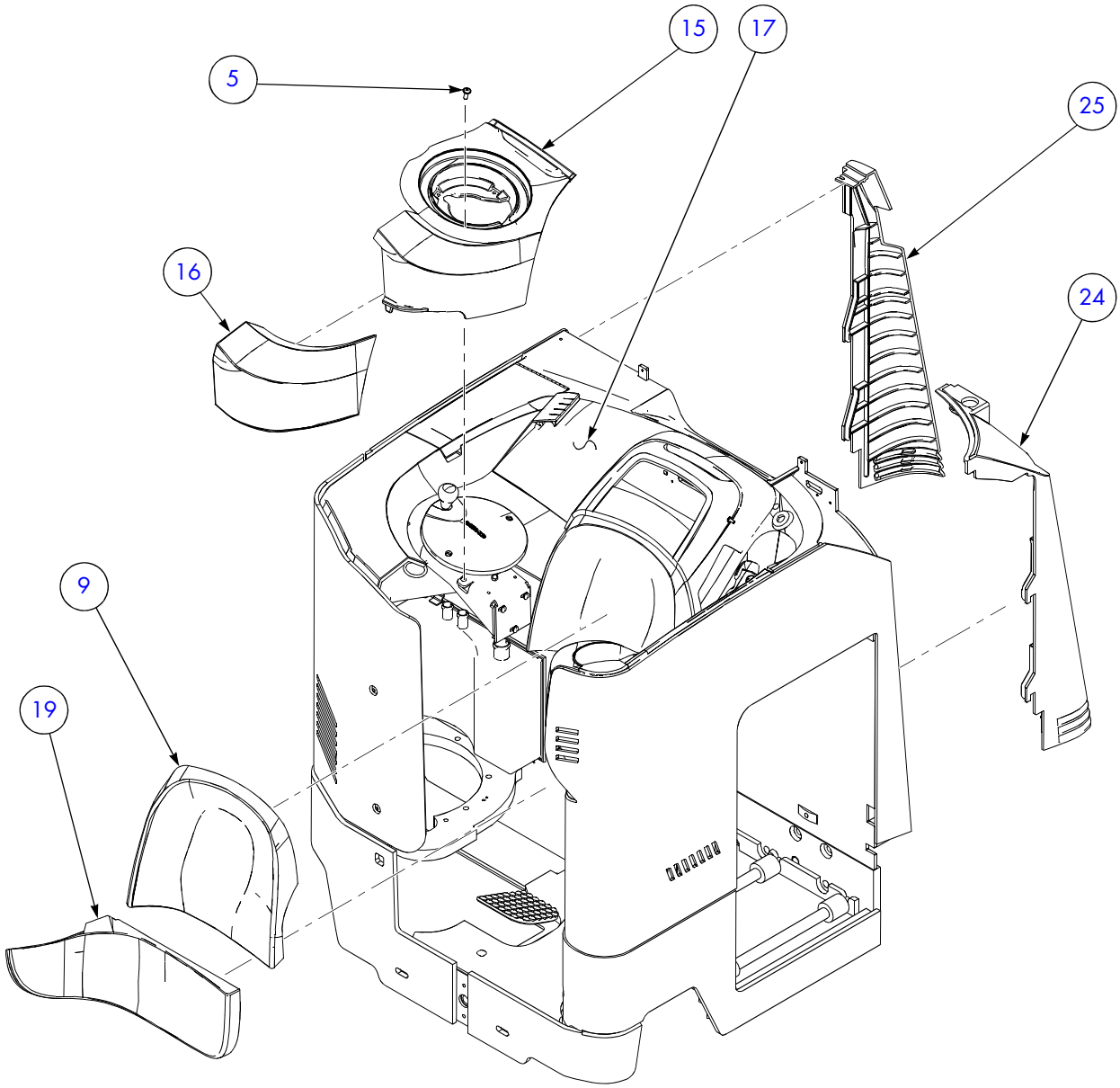


1052560_B1 SHT 1 OF 6

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Cover Installation, Fore-Aft Stance

Figure 2-6b: Cover Installation, Fore-Aft Stance

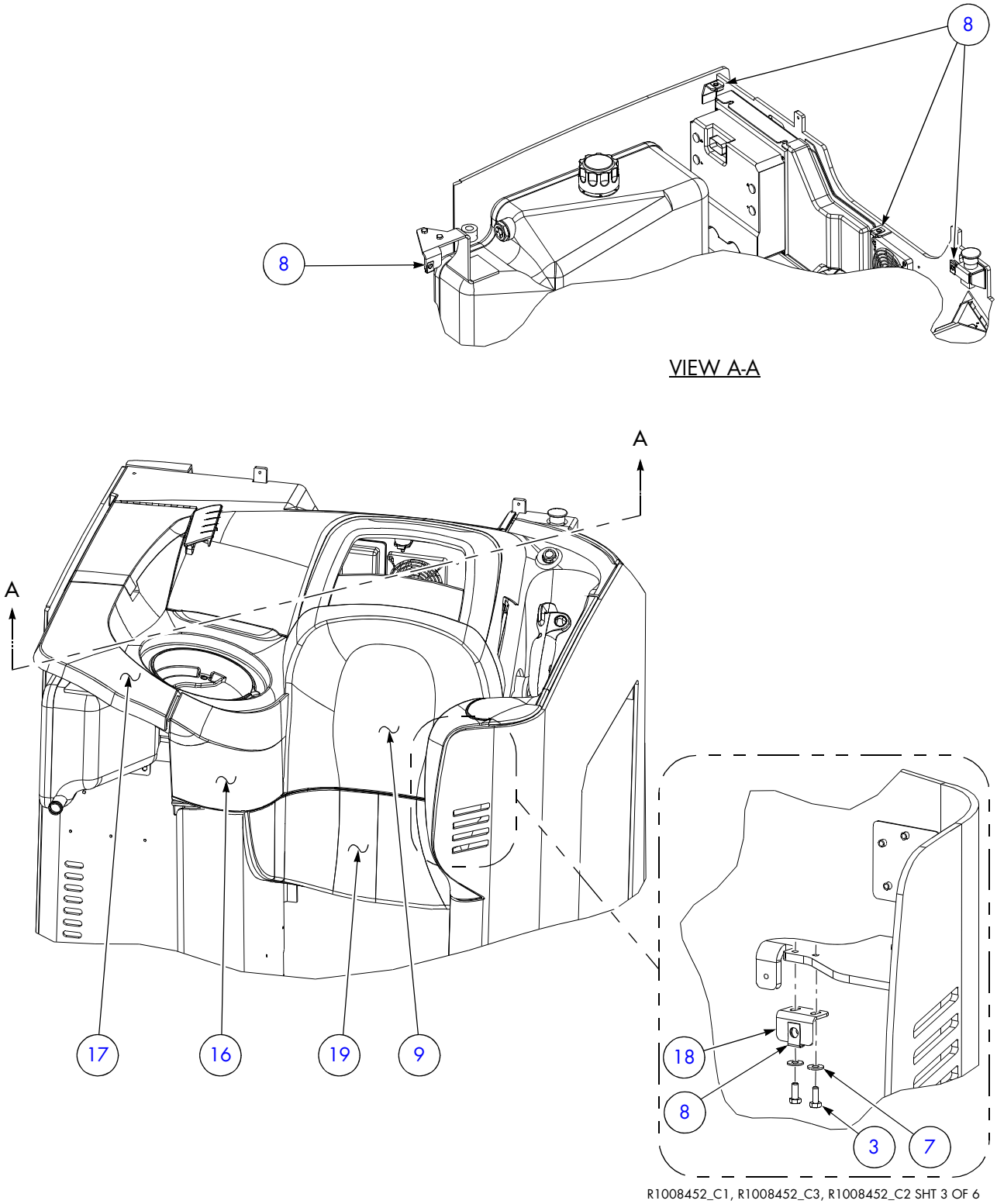


1052560_B2 SHT 2 OF 6

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Cover Installation, Fore-Aft Stance

Figure 2-6c: Cover Installation, Fore-Aft Stance

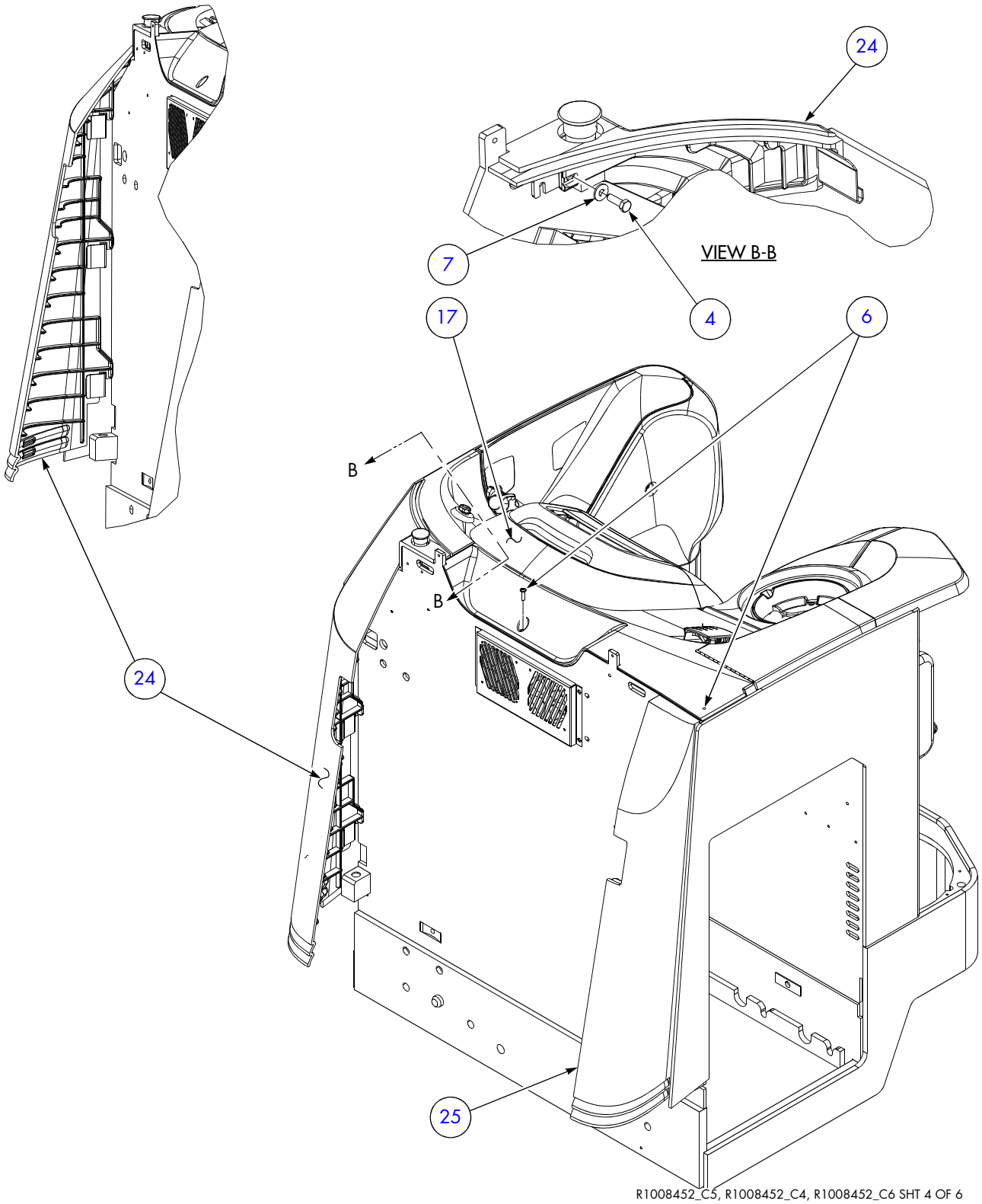


R1008452_C1, R1008452_C3, R1008452_C2 SHT 3 OF 6

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Cover Installation, Fore-Aft Stance

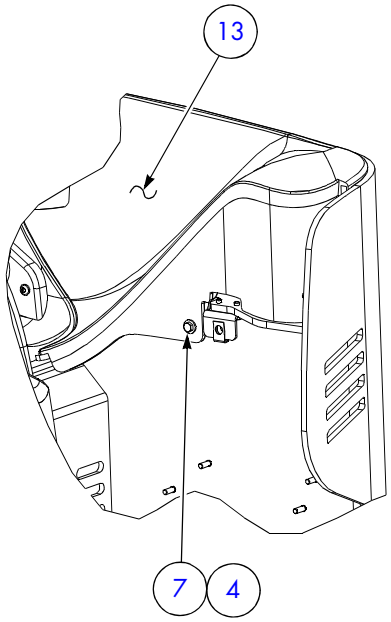
Figure 2-6d: Cover Installation, Fore-Aft Stance



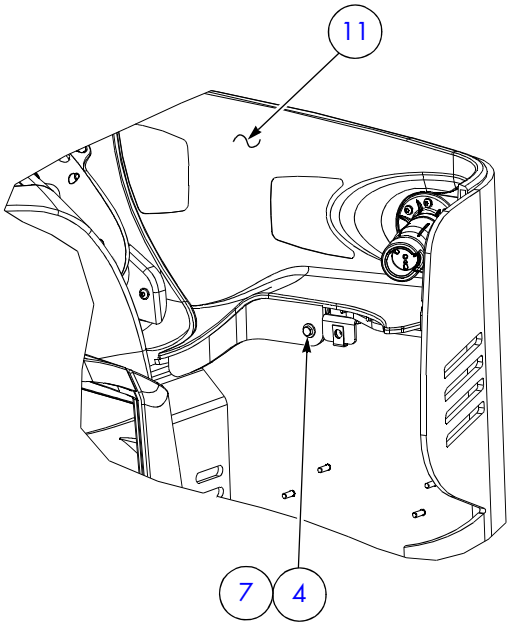
https://truckmanualshub.com/

Cover Installation, Fore-Aft Stance

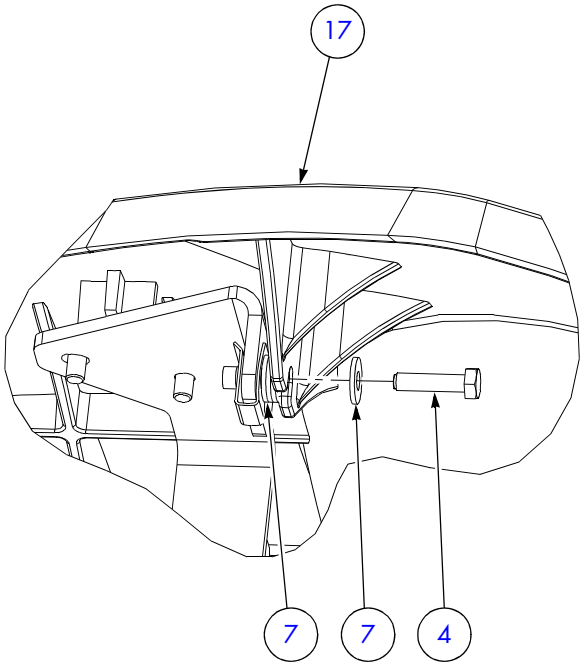
Figure 2-6e: Cover Installation, Fore-Aft Stance

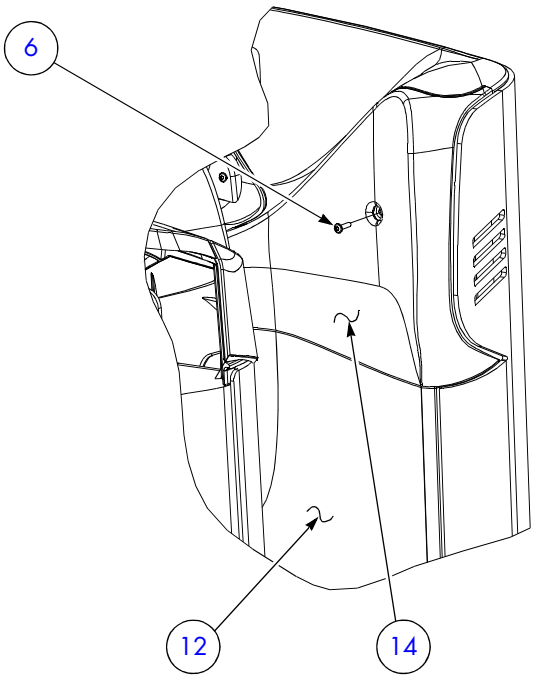


WITHOUT SECONDARY HANDLE



WITH SECONDARY HANDLE



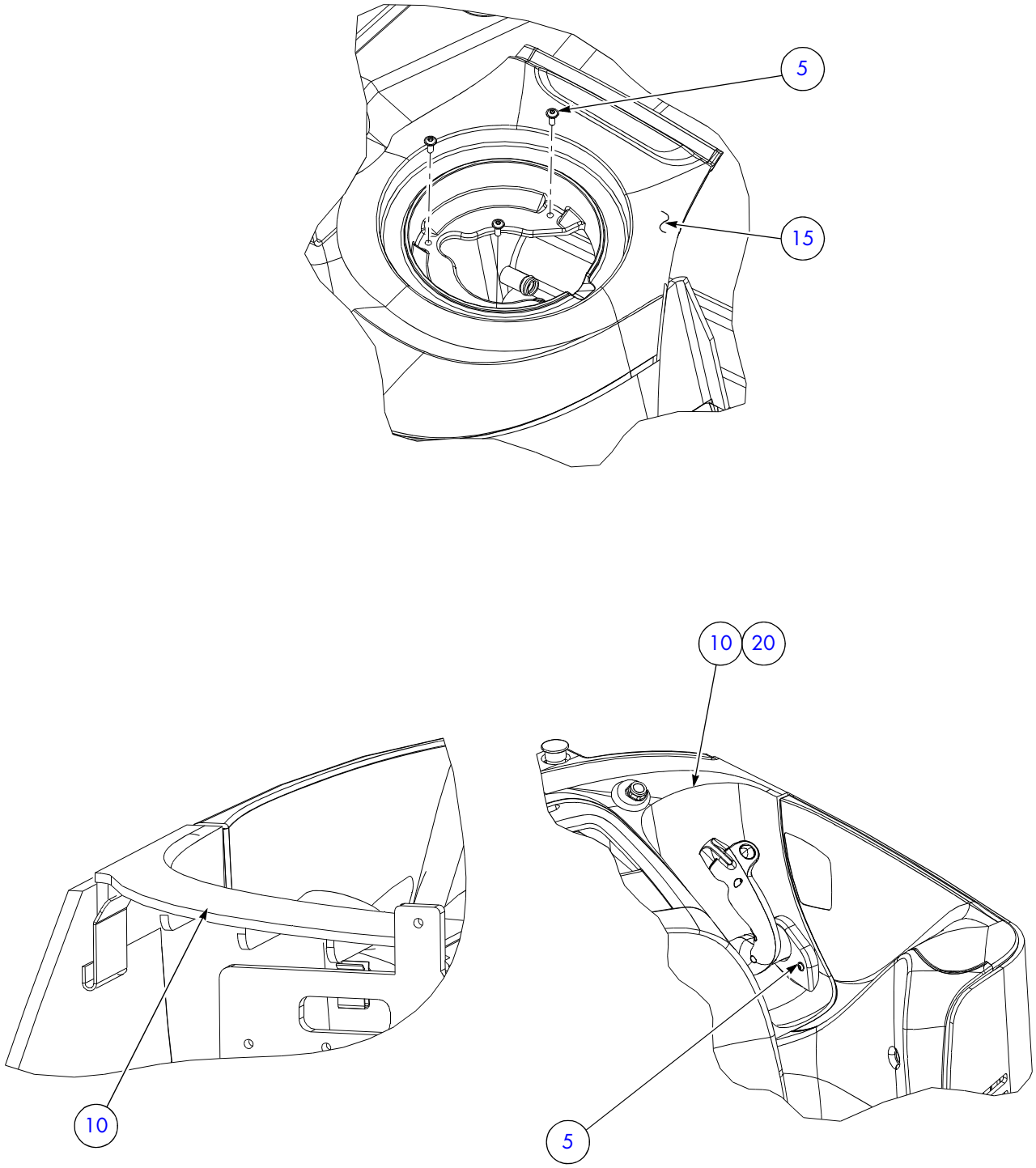


R1008452_C7, R1008452_C8, R1008452_C9, R1008452_C10 SHT 5 OF 6

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Cover Installation, Fore-Aft Stance

Figure 2-6f: Cover Installation, Fore-Aft Stance



R1008452_C11, R1008452_C12, R1008452_C13 SHT 6 OF 6

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List 2-6: Cover Installation, Fore-Aft Stance

FIGURE 2-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
3	2	5-001-002	Screw	
4	1	5-001-004	Screw (Qty 2 for Models 7420 and 7440 only)	
5	4	5-007-024	Screw (Models 7420 and 7440)	
	6	1053165/024	Screw (Qty 5 Without Secondary Handle)	
6	3	5-007-027	Screw (Models 7420 and 7440)	
	3	1053165/027	Screw	
7	8	7-771-206	Washer, Flat (Qty 6 for Model 7400 Without Secondary Handle)	
8	4	7-812-002	Nut, Retainer	
9	1	1011296	Pad, Aft	
10	1	1080014/002	Cover, Control Handle, Primary	A, D
	1	1080014/003	Cover, Control Handle, Primary	B, D
	1	1080014/004	Cover, Control Handle, Primary	C, D
	1	1080014/102	Cover, Control Handle, Primary	A, E
	1	1080014/103	Cover, Control Handle, Primary	B, E
	1	1080014/104	Cover, Control Handle, Primary	C, E
11	1	1031890	Cover, Control Handle, Secondary	
12	1	1031891	Cover Assembly, Electrical	
13	1	1011300	Cover, Control Handle, Filler	
14	1	1011301	Pad, Hip	
15	1	1011302	Cover, Steering, Fore-Aft Stance	
16	1	1011303	Pad, Steer	
17	1	Ref.	Cover Assembly, Top, Fore-Aft Stance (See Figure 2-7a.)	
18	1	1013734	Bracket, Cover Mounting	
19	1	1011306	Pad, Knee	
20	1	1080015/002	Cover, Bucket	A, D
	1	1080015/003	Cover, Bucket	B, D
	1	1080015/004	Cover, Bucket	C, D
	1	1080015/102	Cover, Bucket	A, E
	1	1080015/103	Cover, Bucket	B, E
	1	1080015/104	Cover, Bucket	C, E
22	AR	811-861/006	Latch, Flexible	
23	AR	811-861/016	Latch, Flexible	
24	1	1060189	Cover, Front, Right-Hand (Models 7420 and 7440)	
	1	1011307/001	Cover, Front, Right-Hand	
	1	1011307/002	Cover, Front, Right-Hand (With 3 in. Under Clearance)	
25	1	1060190	Cover, Front, Left-Hand (Models 7420 and 7440)	
	1	1011308/001	Cover, Front, Left-Hand	
	1	1011308/002	Cover, Front, Left-Hand (With 3 in. Under Clearance)	

A= 16.5 in. Battery Compartment
B= 18.5 in. Battery Compartment
C= 21.5 in. Battery Compartment
D= Without Secondary Control Handle
E= With Secondary Control Handle

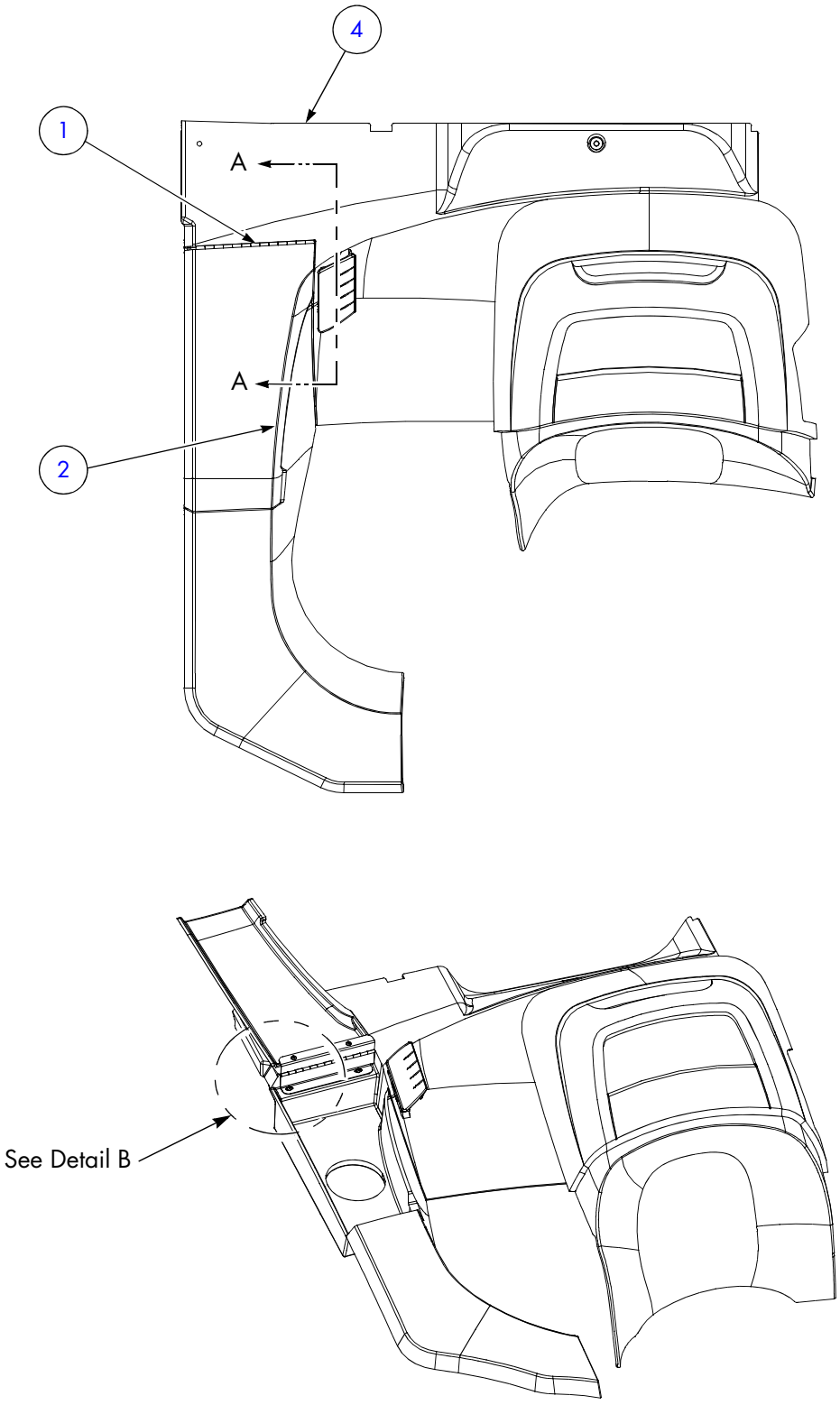
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Top Cover Assembly, Fore-Aft Stance

Figure 2-7a: Top Cover Assembly, Fore-Aft Stance

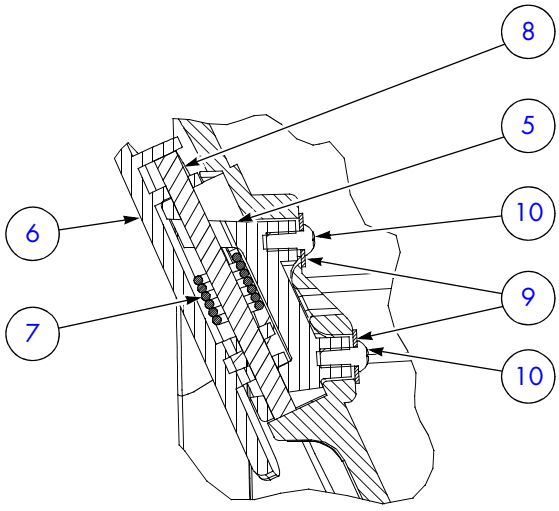


R1011825_B1, R1011825_B4 SHT 1 OF 2

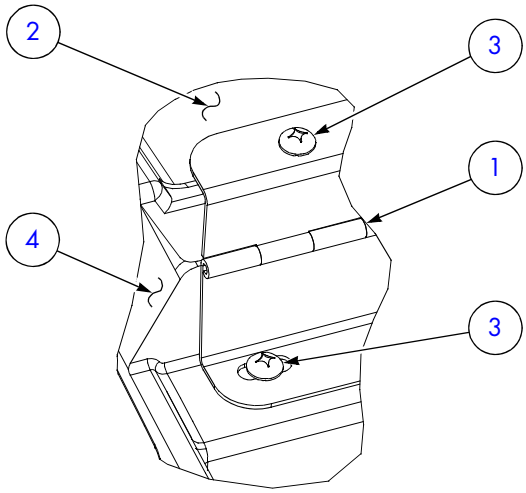
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Top Cover Assembly, Fore-Aft Stance

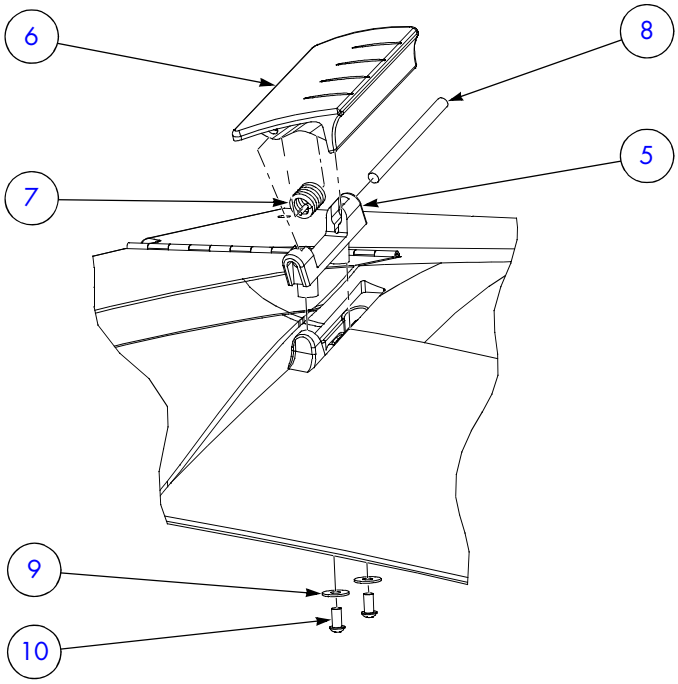
Figure 2-7b: Top Cover Assembly, Fore-Aft Stance



SECTION A-A



DETAIL B



SECTION A-A (EXPLODED)

R1011825_B2, R1011825_B5, R1008452_B6 SHT 2 OF 2

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List 2-7: Top Cover Assembly, Fore-Aft Stance

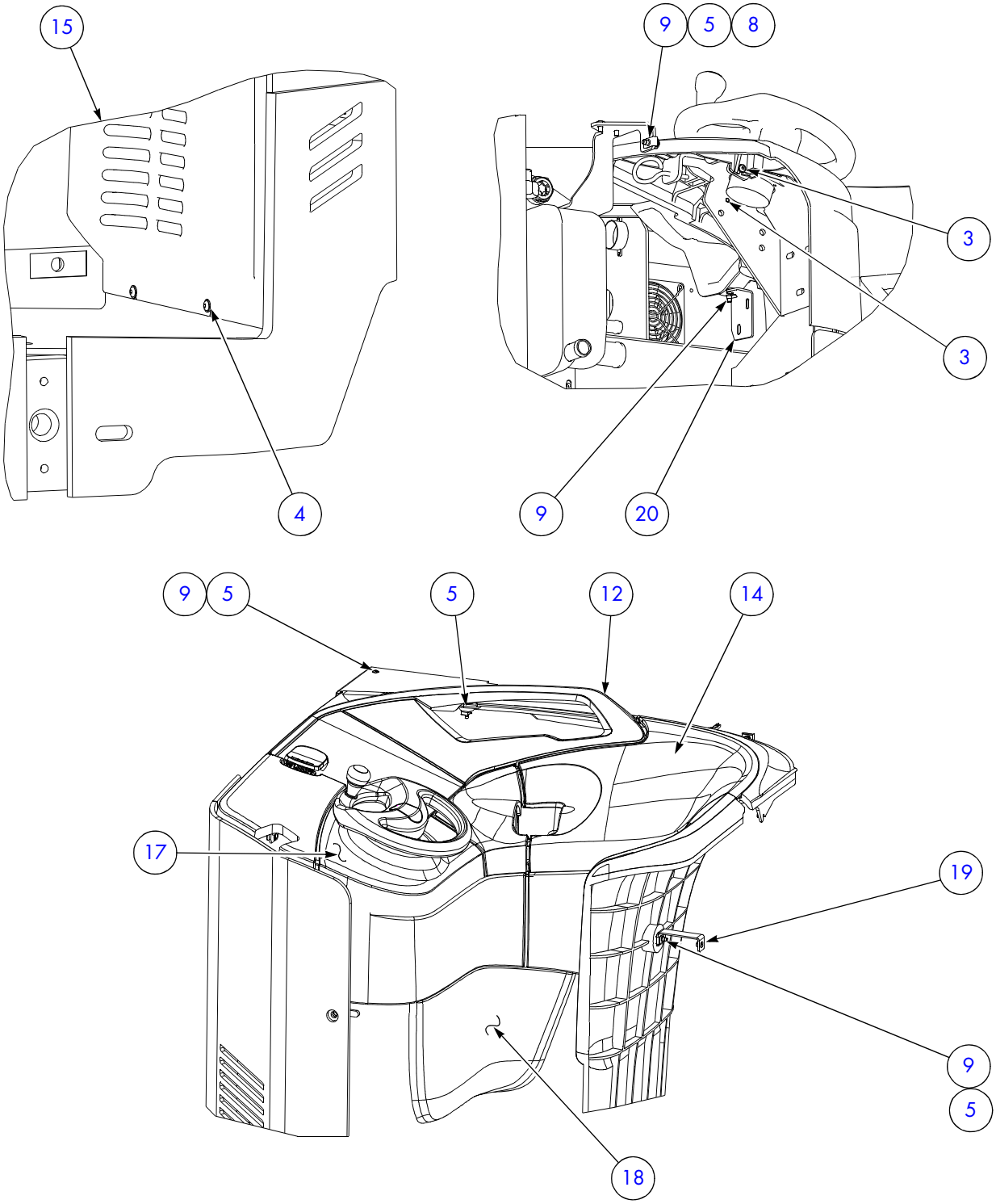
FIGURE 2-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1011825/002	Cover Assembly, Top, Fore-Aft Stance	A
	1	1011825/003	Cover Assembly, Top, Fore-Aft Stance	B
	1	1011825/004	Cover Assembly, Top, Fore-Aft Stance	C
1	1	NSS	Hinge, Glove Box	
2	1	NSS	Cover, Glove Box, Fore-Aft Stance	
3	4	5-013-010	Screw	
4	1	NSS	Cover, Top	
5	1	NSS	Clamp, Base	
6	1	NSS	Clipboard, Clip	
7	1	NSS	Spring, Torsion	
8	1	NSS	Pin, Pivot	
9	2	771-112	Washer, Flat	
10	2	5-013-007	Screw	
11	1	1011825/GBK	Kit, Glove Box (includes: items 1 thru 3) (Not Shown)	
12	1	1011825/PCK	Kit, Paper Clip (includes: items 5 thru 10) (Not Shown)	

A= 16.5 in. Battery Compartment
B= 18.5 in. Battery Compartment
C= 21.5 in. Battery Compartment
NSS= Not Sold Separately

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Cover Installation, Side Stance

Figure 2-8a: Cover Installation, Side Stance

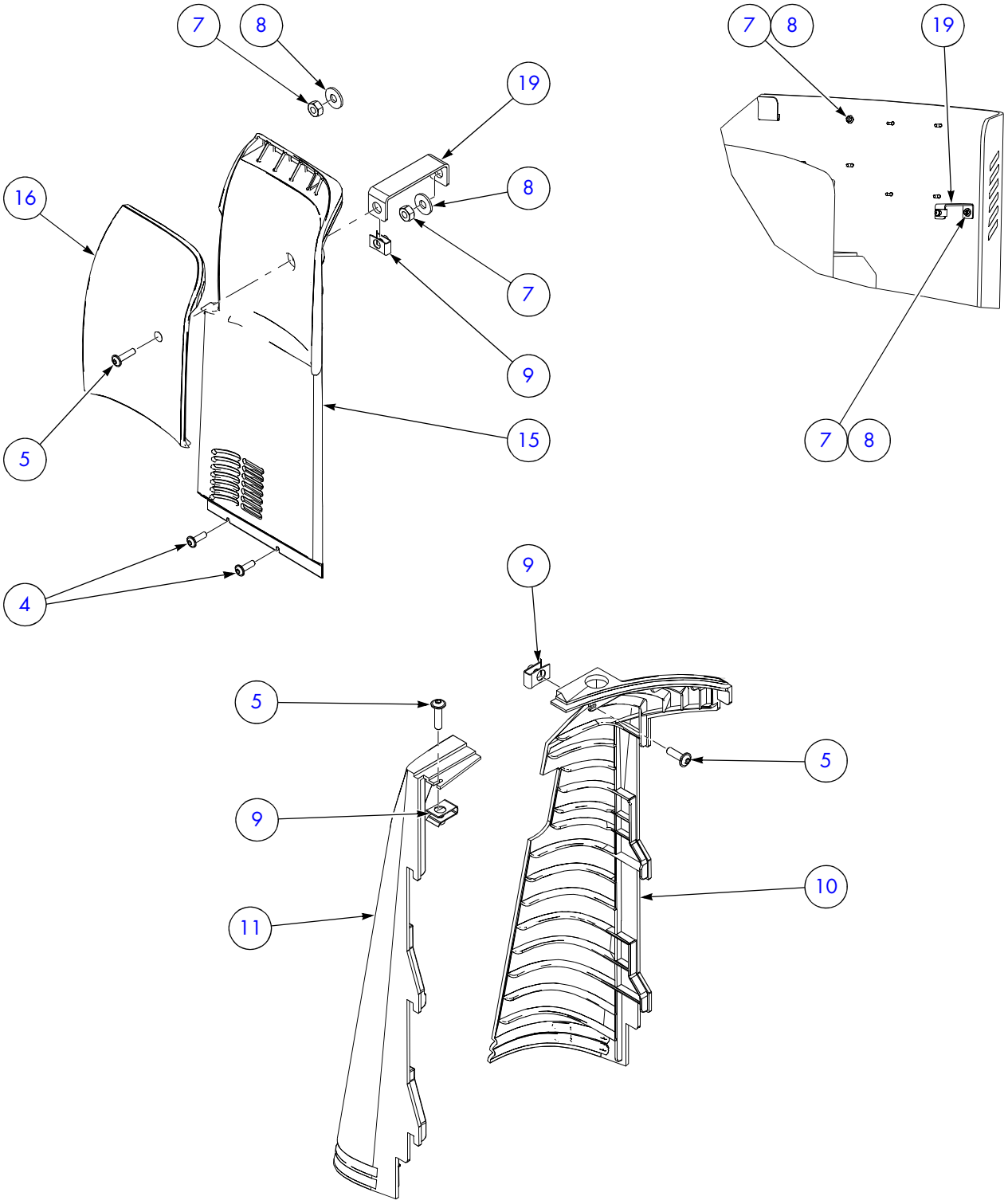


R1010634_A1, R1010634_A2, R1010634_A3 SHT 1 OF 3

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Cover Installation, Side Stance

Figure 2-8b: Cover Installation, Side Stance

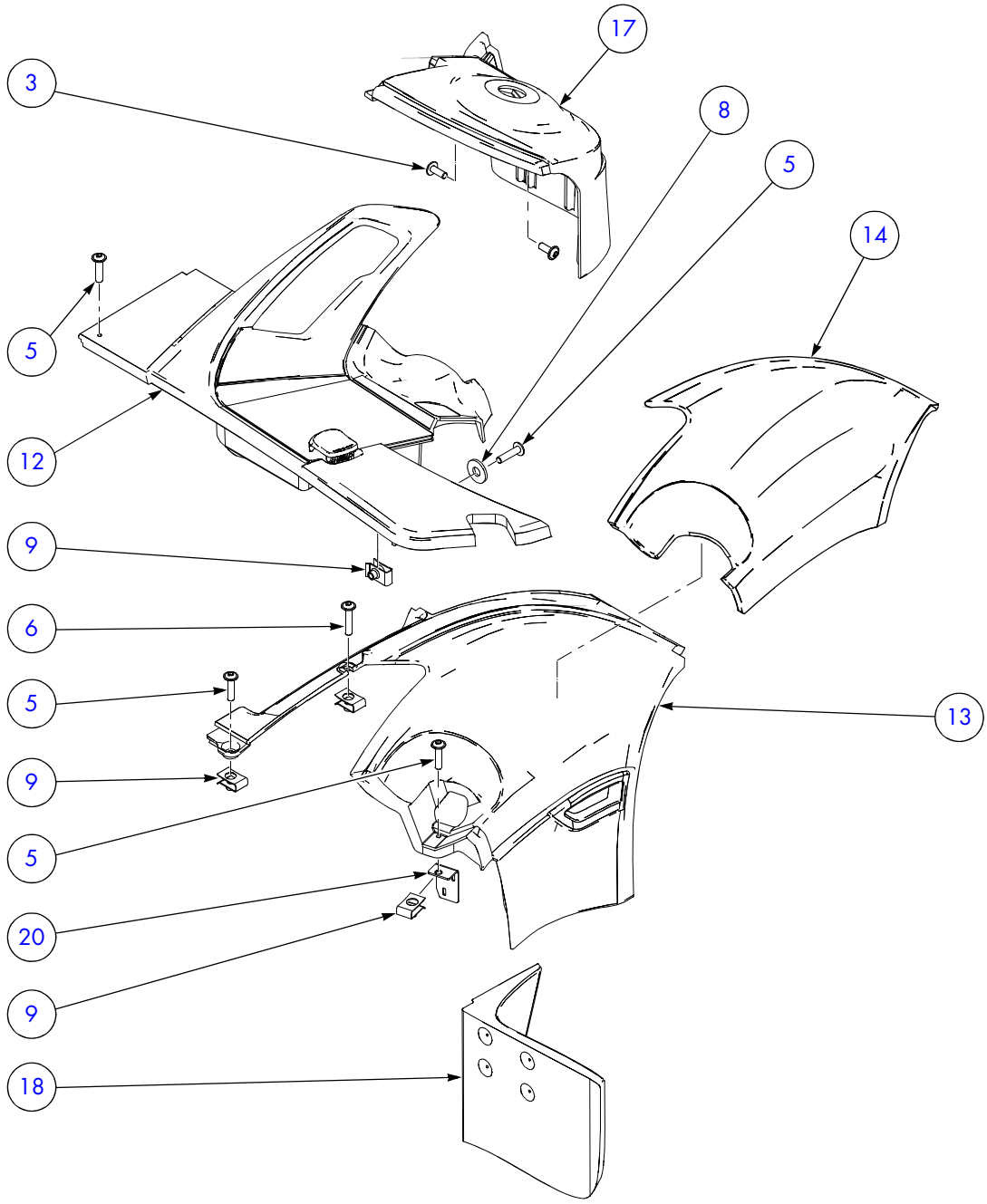


R1010634_A5, R1010634_A4, R1010634_A7 SHT 2 OF 3

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Cover Installation, Side Stance

Figure 2-8c: Cover Installation, Side Stance



R1010634_A7 SHT 3 OF 3

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List 2-8: Cover Installation, Side Stance

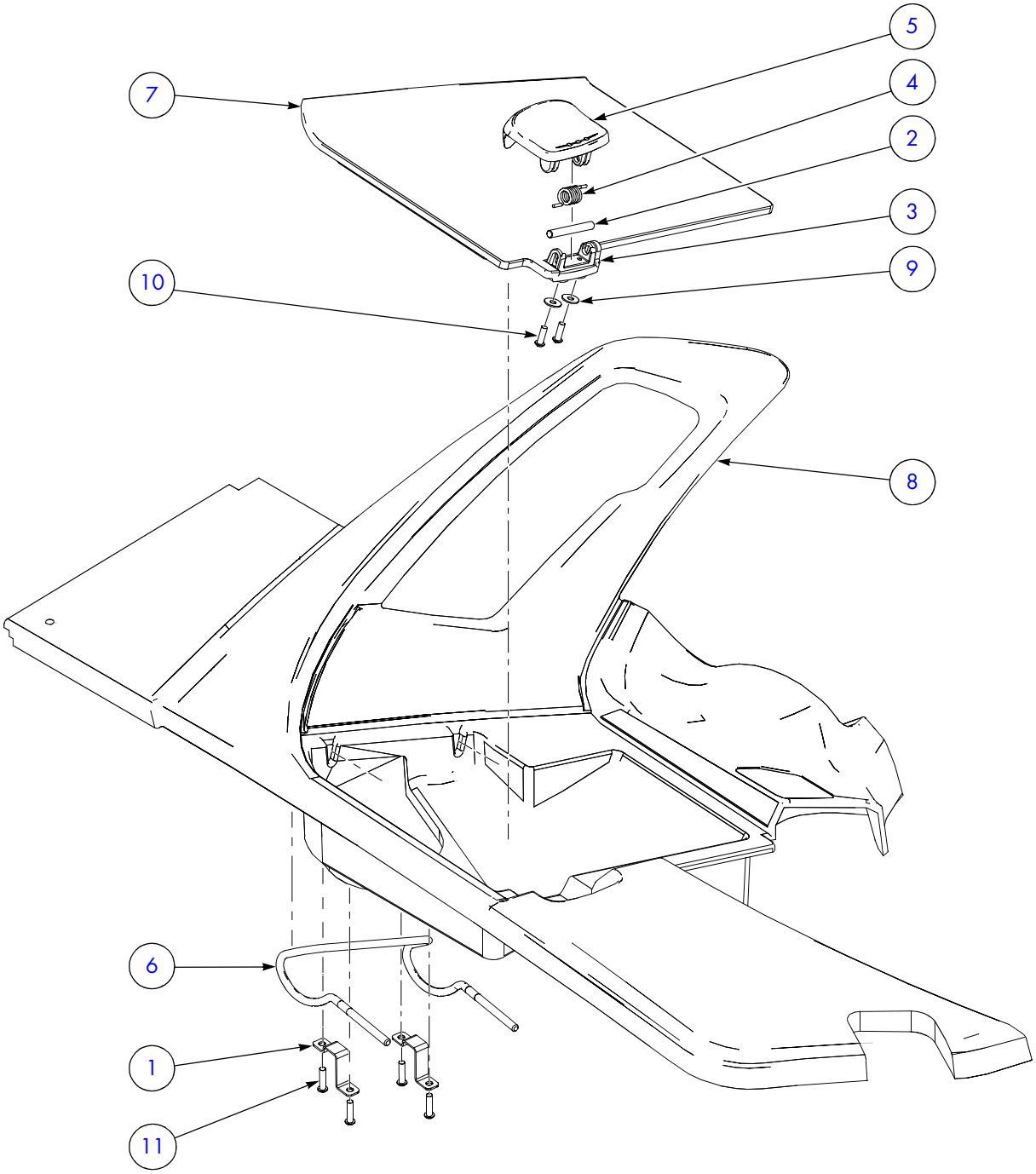
FIGURE 2-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
3	2	1053165/024	Screw	
4	3	1053165/025	Screw	
5	4	1053165/026	Screw	
6	2	1053165/027	Screw	
7	2	5-015-004	Nut	
8	3	7-771-206	Washer, Flat	
9	7	7-812-002	Nut, Retainer	
10	1	1060189	Cover Alteration, Front, Right-Hand	
11	1	1060190	Cover Alteration, Front, Left-Hand	
12	1	Ref.	Cover Assembly, Top (See Figure 2-9.)	
13	1	1014215/K02	Cover Assembly, Top Elbow (includes item 14)	A
	1	1014215/K03	Cover Assembly, Top Elbow (includes item 14)	B
	1	1014215/K04	Cover Assembly, Top Elbow (includes item 14)	C
	1	1014215/K12	Cover Assembly, Top Elbow (includes item 14)	A, E
	1	1014215/K13	Cover Assembly, Top Elbow (includes item 14)	B, E
	1	1014215/K14	Cover Assembly, Top Elbow (includes item 14)	C, E
14	1	1014217	Pad, Elbow	
15	1	1014219/001	Cover Assembly, Electrical (includes item 16)	D
	1	1014219/002	Cover Assembly, Electrical (includes item 16)	E
16	1	1014220	Pad, Hip	
17	1	1014221	Cover, Steering, Side Stance	
18	1	1014222	Pad, Knee	
19	1	1018467	Bracket, Mounting, Electrical Cover	
20	1	1019302	Bracket, Mounting, Elbow Cover	

A= 16.5 in. Battery Compartment
B= 18.5 in. Battery Compartment
C= 21.5 in. Battery Compartment
D= Without Rear Post Cutout
E= With Rear Post Cutout

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Top Cover Assembly, Side Stance

Figure 2-9: Top Cover Assembly, Side Stance



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List 2-9: Top Cover Assembly, Side Stance

FIGURE 2-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1014210/002	Cover Assembly, Top, Side Stance	A
	1	1014210/003	Cover Assembly, Top, Side Stance	B
	1	1014210/004	Cover Assembly, Top, Side Stance	C
	1	1014210/102	Cover Assembly, Top, Side Stance	A, D
	1	1014210/103	Cover Assembly, Top, Side Stance	B, D
	1	1014210/104	Cover Assembly, Top, Side Stance	C, D
1	2	NSS	Bracket, Hinge Retainer	
2	1	NSS	Pin, Clip	
3	1	NSS	Clamp, Base	
4	1	NSS	Spring, Torsion	
5	1	NSS	Clip, Clipboard	
6	1	NSS	Hinge, Glove Box	
7	1	NSS	Cover, Glove Box, Side Stance	
8	1	Ref.	Cover, Top Display	
9	2	771-112	Washer, Flat	
10	2	5-013-010	Screw	
11	4	5-013-008	Screw	
12	1	1014210/PCK	Kit, Paper Clip (includes: items 2 thru 5, 9, and 10) (Not Shown)	
13	1	1014210/GBK	Kit, Glove Box (includes: items 1, 6, 7, and 11) (Not Shown)	

A= 16.5 in. Battery Compartment
B= 18.5 in. Battery Compartment
C= 21.5 in. Battery Compartment
D= With Rear Post
NSS= Not Sold Separately

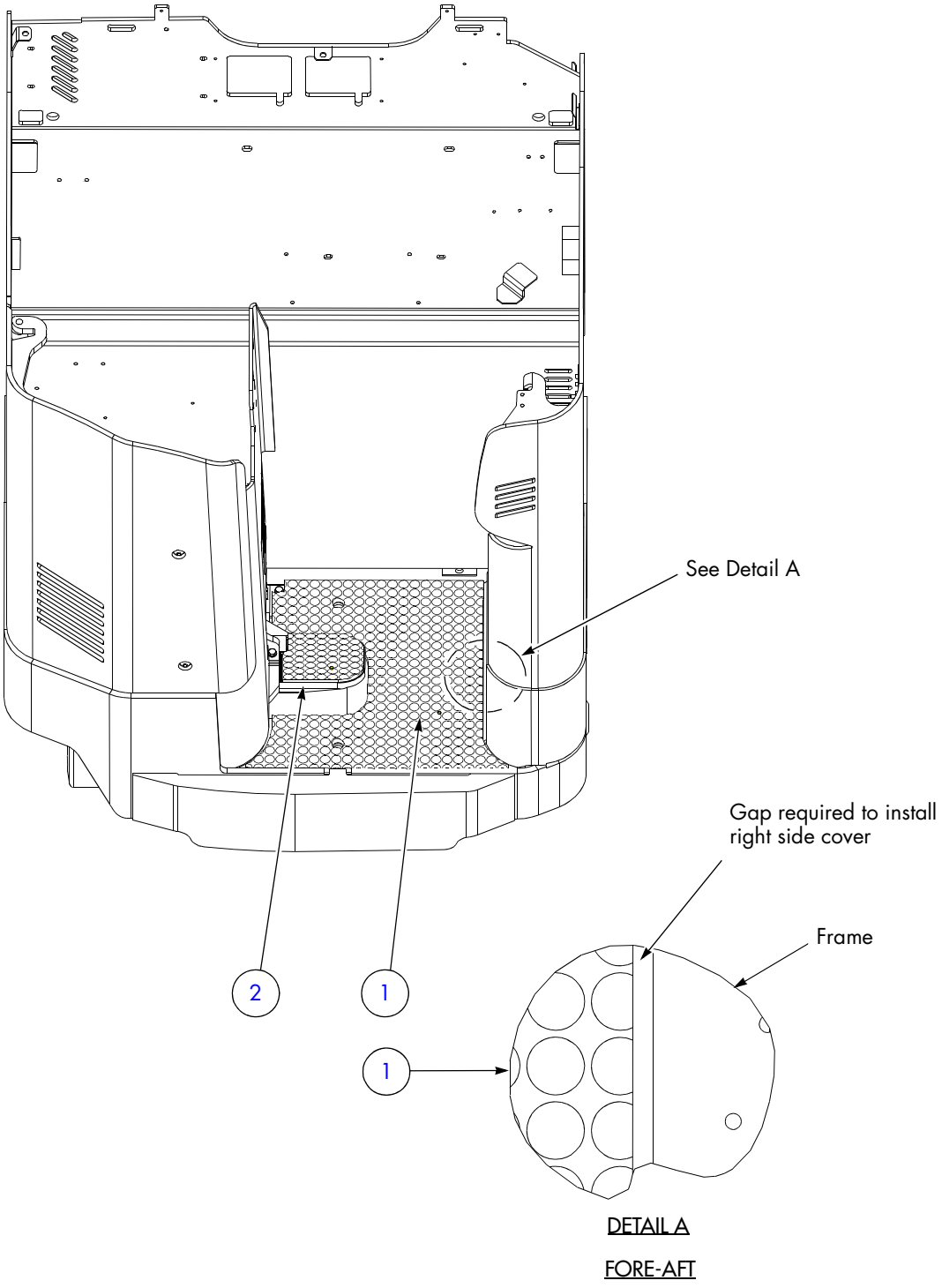
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Floor Pad Installation

Figure 2-10a: Floor Pad Installation

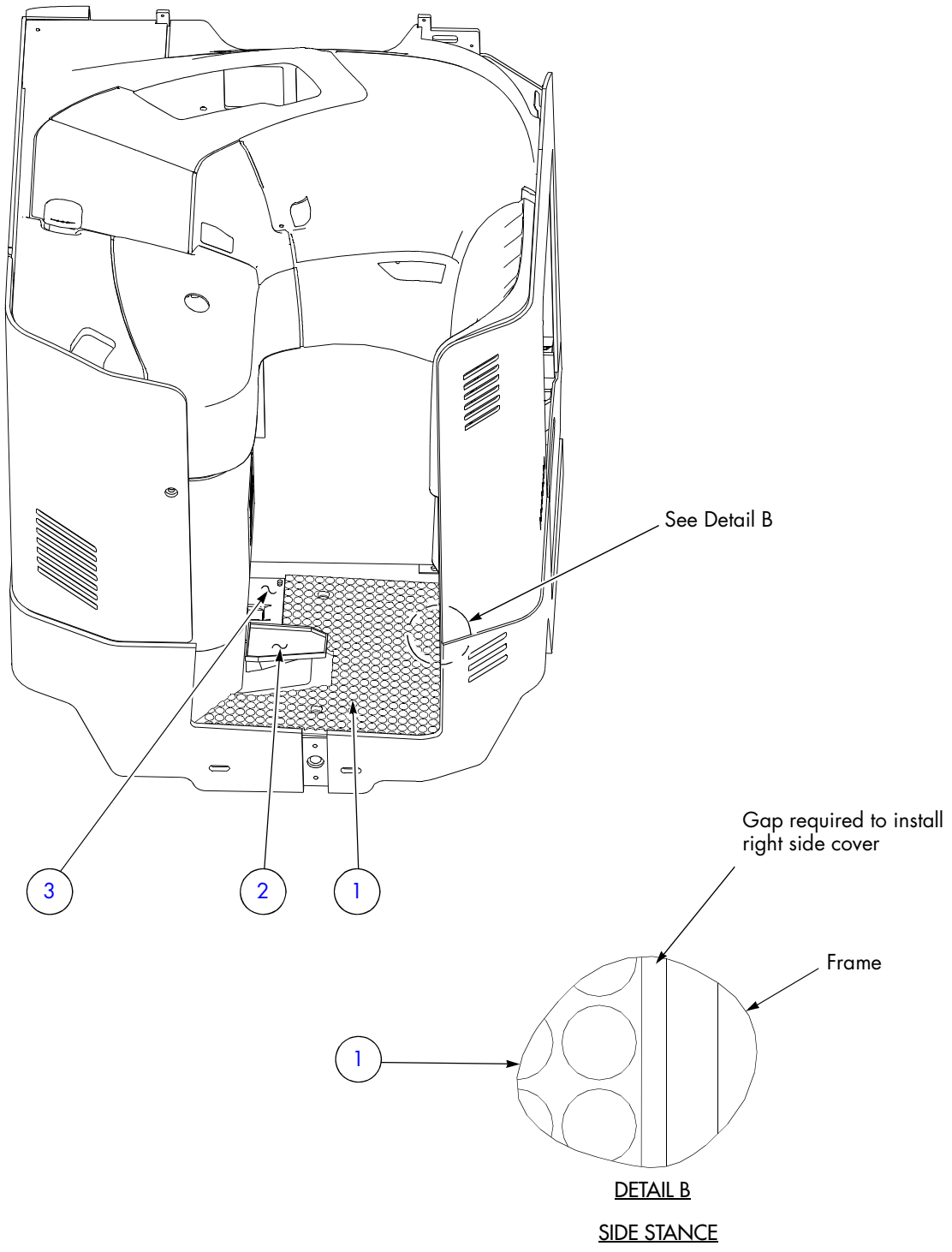


R1008456_C1, R1008456_C2 SHT 1 OF 4

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Floor Pad Installation

Figure 2-10b: Floor Pad Installation

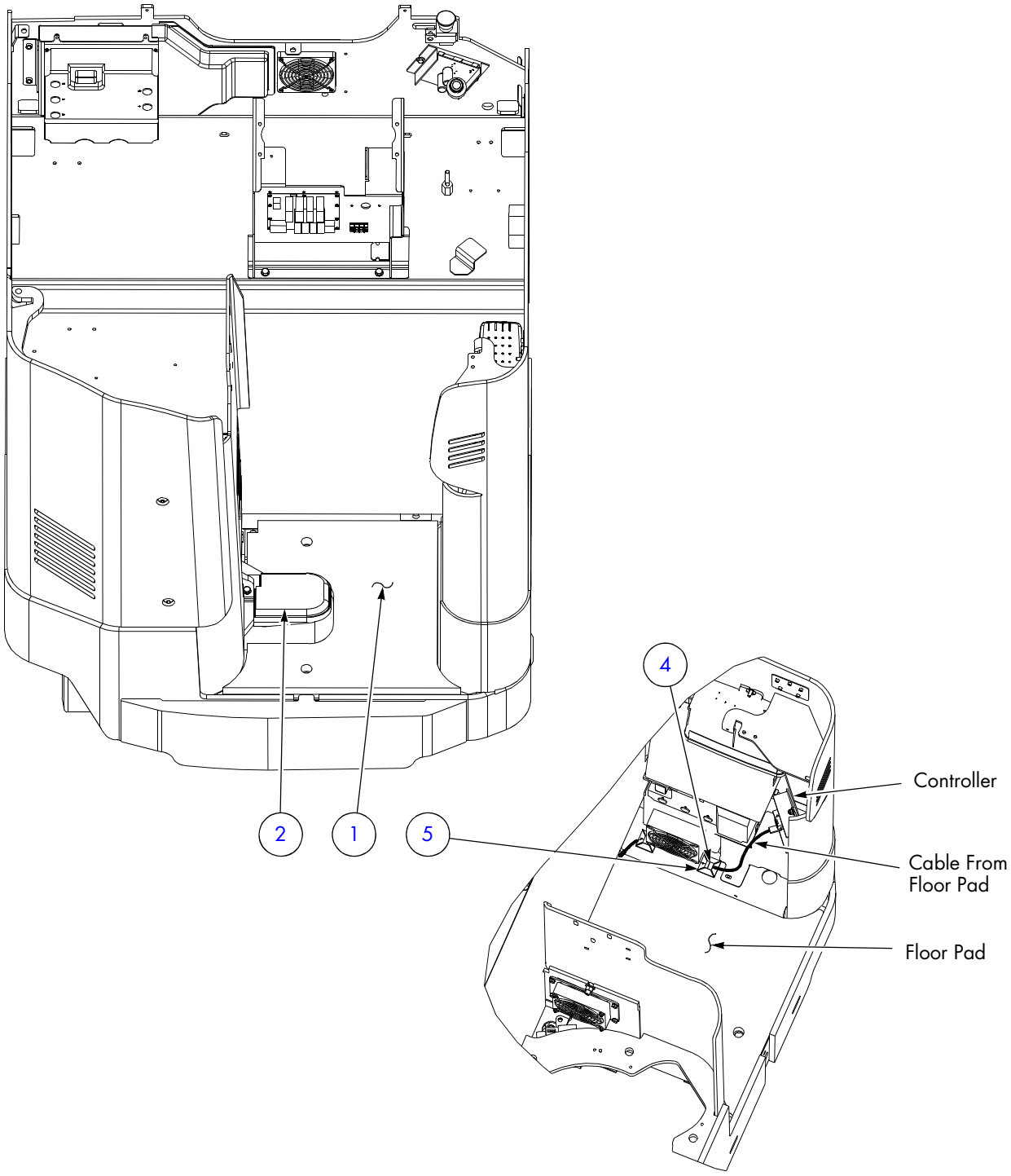


R1010637_B1, R1010637_B2 SHT 2 OF 4

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Floor Pad Installation

Figure 2-10c: Floor Pad Installation



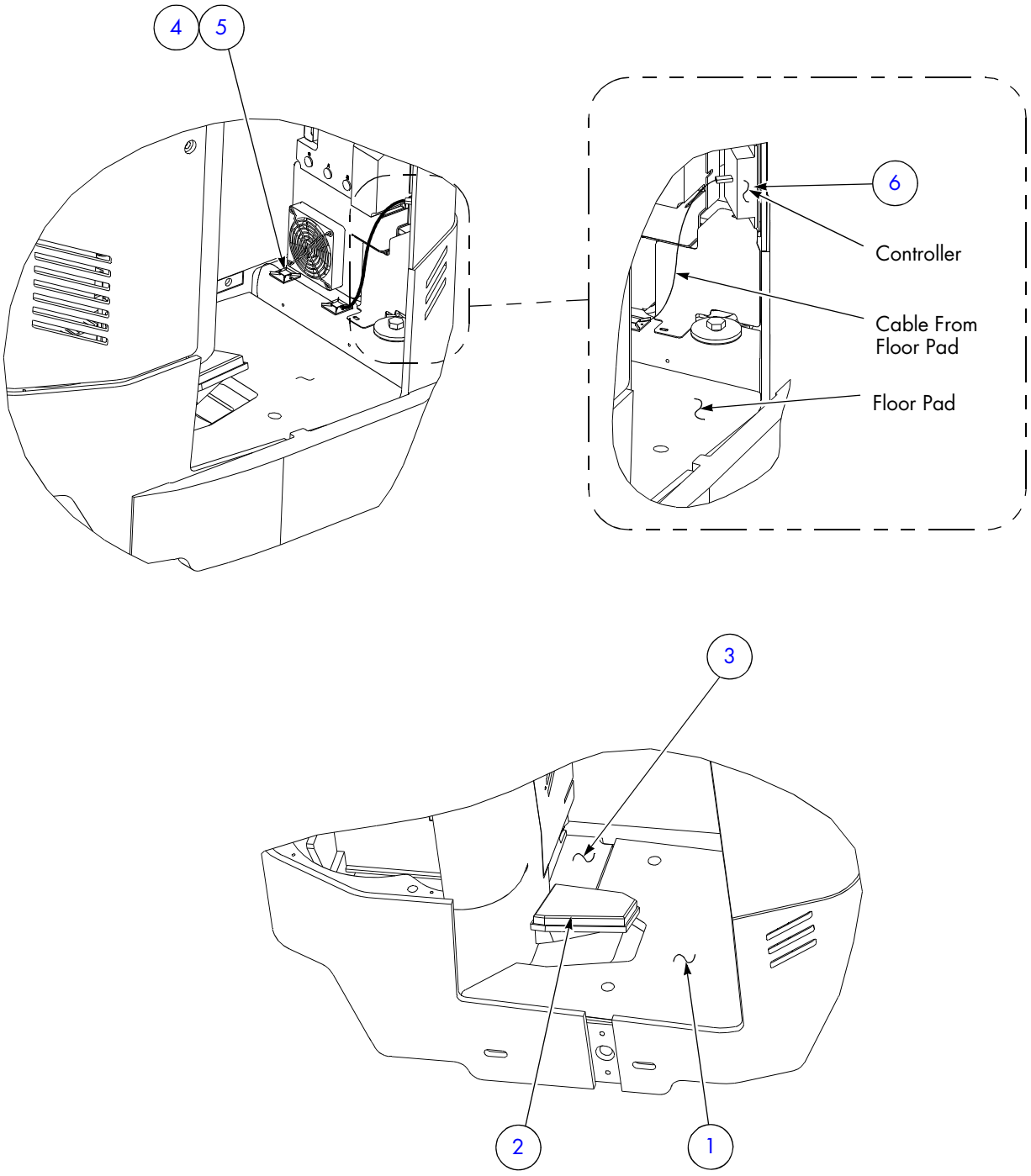
FORE-AFT WITH THERMAKIT

R1017358_A1, R1017358_A2 SHT 3 OF 4

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Floor Pad Installation

Figure 2-10d: Floor Pad Installation



SIDE STANCE WITH THERMAKIT

R1015811_A1, R1015811_A3, R1015811_A2 SHT 4 OF 4

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List 2-10: Floor Pad Installation

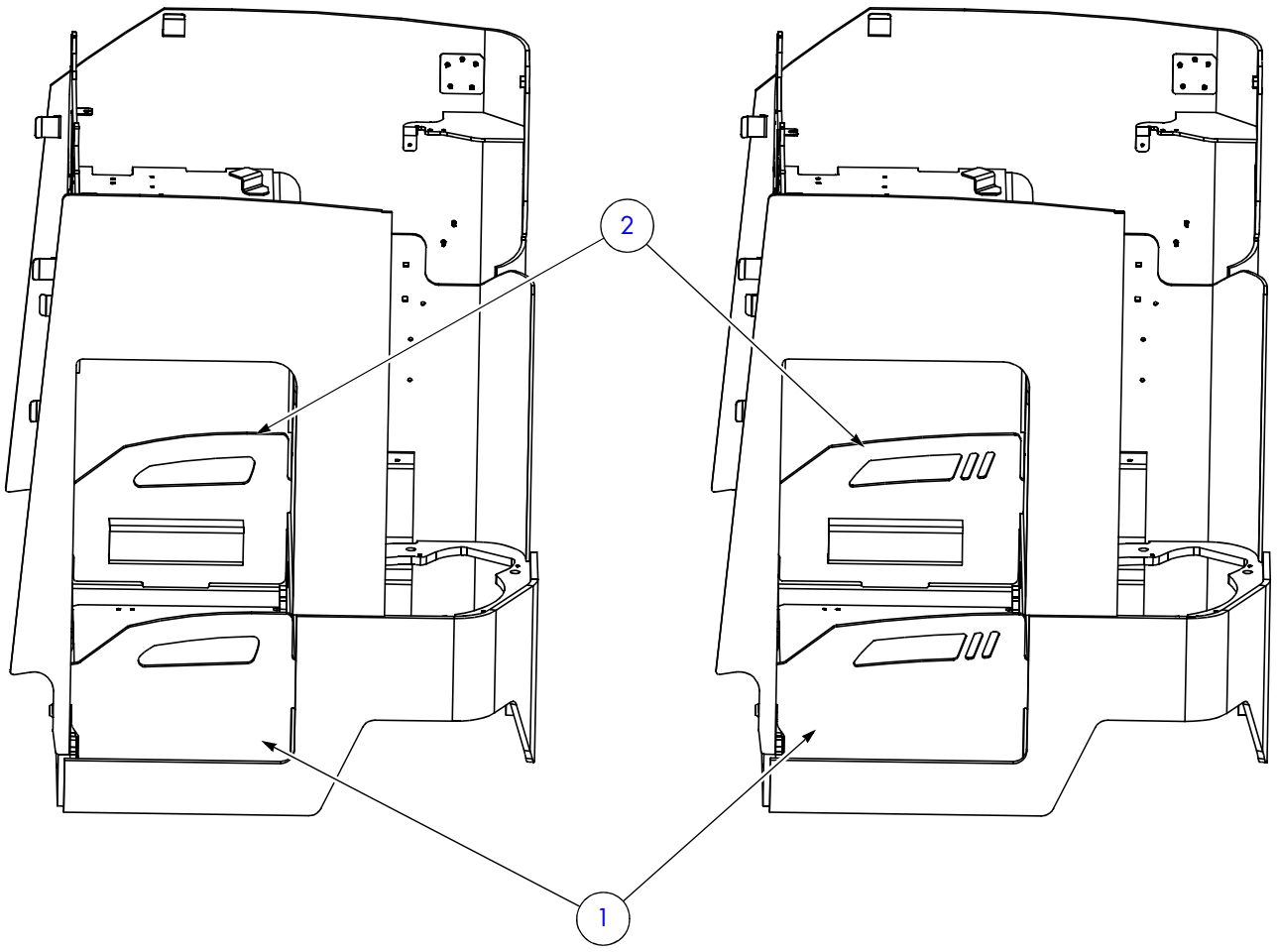
FIGURE 2-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1058974	Pad, Floor	A
	1	1058974	Pad, Floor	B
	1	1046914	Pad, Floor, ThermaKit	A
	1	1015813	Pad, Floor, ThermaKit	B
2	1	828-013-345	Pad, Pedal	A
	1	828-013-346	Pad, Pedal	B
3	1	828-013-348	Pad, Brake Bracket	B
4	2	611-029	Cable Tie	
5	2	611-088	Anchor, Cable Tie, Adhesive-Backed	
6	1	1017560/001	Circuit Card Assembly, ThermaKit	

A= Fore-Aft Stance
B= Side Stance

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Battery Gate Installation

Figure 2-11: Battery Gate Installation



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List 2-11: Battery Gate Installation

FIGURE 2-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1076725/002	Gate, Battery, Left-Hand	A, D
	1	1076725/003	Gate, Battery, Left-Hand	B, D
	1	1076725/004	Gate, Battery, Left-Hand	C, D
	1	1079198/003	Gate, Battery, Left-Hand	B, E
	1	1079198/004	Gate, Battery, Left-Hand	C, E
2	1	1079194/002	Gate, Battery, Right-Hand, 38.75 inch wide Battery	A, D
	1	1079194/003	Gate, Battery, Right-Hand, 38.75 inch wide Battery	B, D
	1	1079194/004	Gate, Battery, Right-Hand, 38.75 inch wide Battery	C, D
	1	1079194/005	Gate, Battery, Right-Hand, 38.81 inch wide Battery	A, D
	1	1079194/006	Gate, Battery, Right-Hand, 38.81 inch wide Battery	B, D
	1	1079194/007	Gate, Battery, Right-Hand, 38.81 inch wide Battery	C, D
	1	1079194/008	Gate, Battery, Right-Hand, 39.06 inch wide Battery	A, D
	1	1079194/009	Gate, Battery, Right-Hand, 39.06 inch wide Battery	B, D
	1	1079194/010	Gate, Battery, Right-Hand, 39.06 inch wide Battery	C, D
	1	1079194/011	Gate, Battery, Right-Hand, 39.25 inch wide Battery	A, D
	1	1079194/012	Gate, Battery, Right-Hand, 39.25 inch wide Battery	B, D
	1	1079194/013	Gate, Battery, Right-Hand, 39.25 inch wide Battery	C, D
	1	1079215/003	Gate, Battery, Right-Hand, 38.75 inch wide Battery	B, E
	1	1079215/004	Gate, Battery, Right-Hand, 38.75 inch wide Battery	C, E
	1	1079215/005	Gate, Battery, Right-Hand, 39.06 inch wide Battery	B, E
	1	1079215/006	Gate, Battery, Right-Hand, 39.06 inch wide Battery	C, E
	1	1079215/007	Gate, Battery, Right-Hand, 39.25 inch wide Battery	B, E
	1	1079215/008	Gate, Battery, Right-Hand, 39.25 inch wide Battery	C, E

A= 16.5 in. Battery Compartment
B= 18.5 in. Battery Compartment
C= 21.5 in. Battery Compartment
D= Model 7400
E= Models 7420 and 7440

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SECTION 3 Steering and Controls

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Steer Motor Installation, DC Lift 3-11
Hydraulic Steer Motor Assembly, DC Lift 3-14
Steer Motor Installation, AC Lift 3-16
Steer Gearmotor Assembly, AC Lift 3-18
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Steering Wheel Installation, Fore-Aft, AC Lift 3-25
Steering Wheel Installation, Side Stance, DC Lift 3-28
Steering Wheel Installation, Side Stance, AC Lift 3-30
Control Handle Installation, Fore-Aft, Primary 3-34
Control Handle Assembly, Fore-Aft, Primary 3-36
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Control Handle Assembly, Side Stance 3-46
Control Handle Assembly, Side Stance, ThermaKit 3-50
Control Handle Installation, Fore-Aft, Secondary 3-54
Control Handle Assembly, Fore-Aft, Secondary 3-56
Control Handle Assembly, Secondary, Fore Aft Stance, ThermaKit 3-59

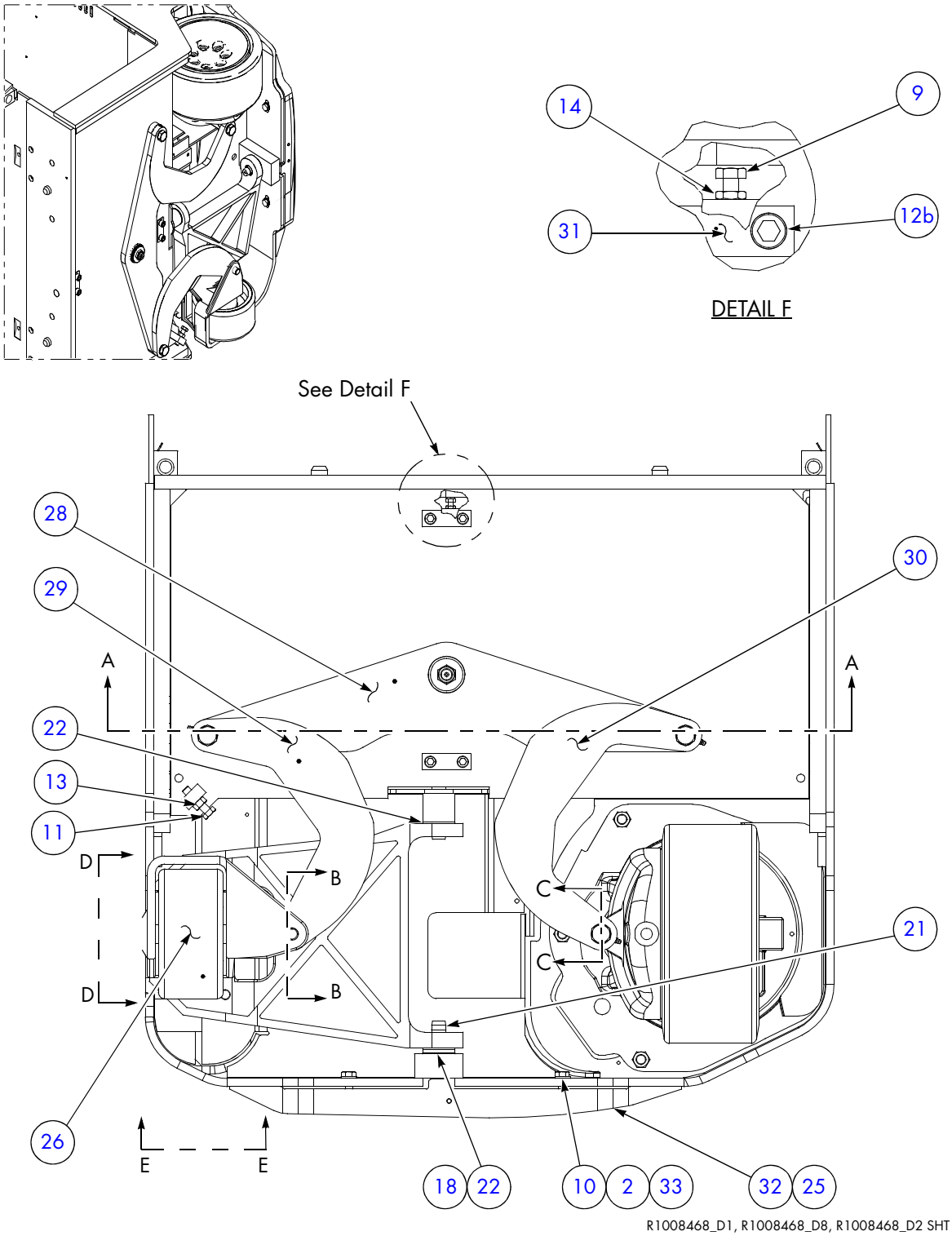
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Steer Linkage Installation

Figure 3-1a: Steer Linkage Installation

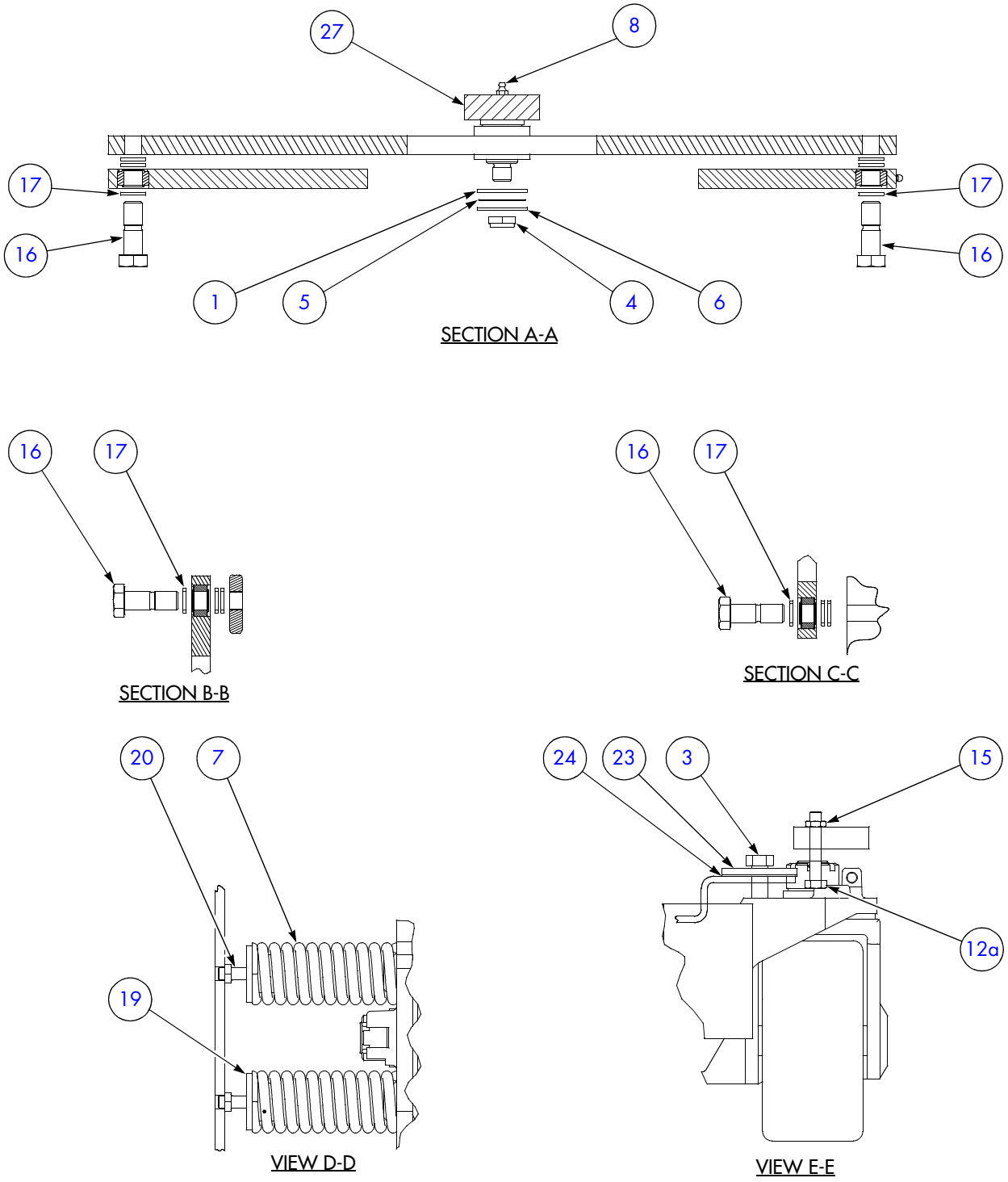


R1008468_D1, R1008468_D8, R1008468_D2 SHT 1 OF 2

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Steer Linkage Installation

Figure 3-1b: Steer Linkage Installation



R1008468_D3, R1008468_D4, R1008468_D5, R1008468_D6, R1008468_D7 SHT 2 OF 2

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List 3-1: Steer Linkage Installation (Sheet 1 of 2)

FIGURE 3-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	464-092	Bearing, Oil-Impregnated Thrust Washer	R
2	2	710-242	Screw	
3	1	710-367	Screw	
4	1	760-148	Nut, Lock	
5	AR	771-040	Washer, Flat	
6	1	771-128	Washer, Flat	
7	2	830-218	Spring, Compression	R
8	1	841-056	Fitting, Grease	
9	2	5-001-010	Screw	
10	2	5-001-024	Screw	
11	1	5-001-026	Screw	
12a	1	5-001-027	Screw	
12b	4	5-002-016	Screw	
13	1	5-015-007	Nut	
14	2	7-750-408	Nut	
15	1	7-750-412	Nut	
16	4	824-000-382	Bolt	
17	12	824-000-390	Spacer	
18	1	828-000-225/001	Shim (0.06 in. Thick)	
	1	828-000-225/002	Shim (0.12 in. Thick)	
	1	828-000-225/003	Shim (0.19 in. Thick)	
	1	828-000-225/004	Shim (0.03 in. Thick)	
19	2	828-000-229	Boss, Spring	
20	2	828-000-250	Bolt, Spring	
21	1	828-003-078	Pin, Pivot (1011137 Opposite side)	
22	2	828-003-701	Spacer	
23	1	828-004-493	Washer	
24	1	828-004-750	Spacer	
25	1	828-009-602	Counterweight (Side Stance)	
26	1	Ref.	Wheel Assembly, Steered Idler (See Figure 3-2.)	
27	1	1075369/002	Bracket Weldment, Steer	A
	1	1075369/003	Bracket Weldment, Steer	B
	1	1075369/004	Bracket Weldment, Steer	C
28	1	1009381	Link Assembly, Center (includes:)	
	1	445-118	Bearing, Needle	R
29	1	1009401	Link Assembly, Idler (includes:)	
	1	460-680	Bearing, Spherical Roller	R
	1	840-030	Fitting, Grease	
30	1	1009403	Link Assembly, Drive (includes:)	
	1	460-680	Bearing, Spherical Roller	R
	1	840-030	Fitting, Grease	

A= 16.5 in. Battery Compartment
B= 18.5 in. Battery Compartment
C= 21.5 in. Battery Compartment
R= Recommended Spare

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List 3-1: Steer Linkage Installation (Sheet 2 of 2)

FIGURE 3-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
31	2	1009606	Spacer	
32	1	1022229	Counterweight (Fore-Aft Stance)	
33	2	5-018-008	Washer, Flat	

A= 16.5 in. Battery Compartment
B= 18.5 in. Battery Compartment
C= 21.5 in. Battery Compartment
R= Recommended Spare

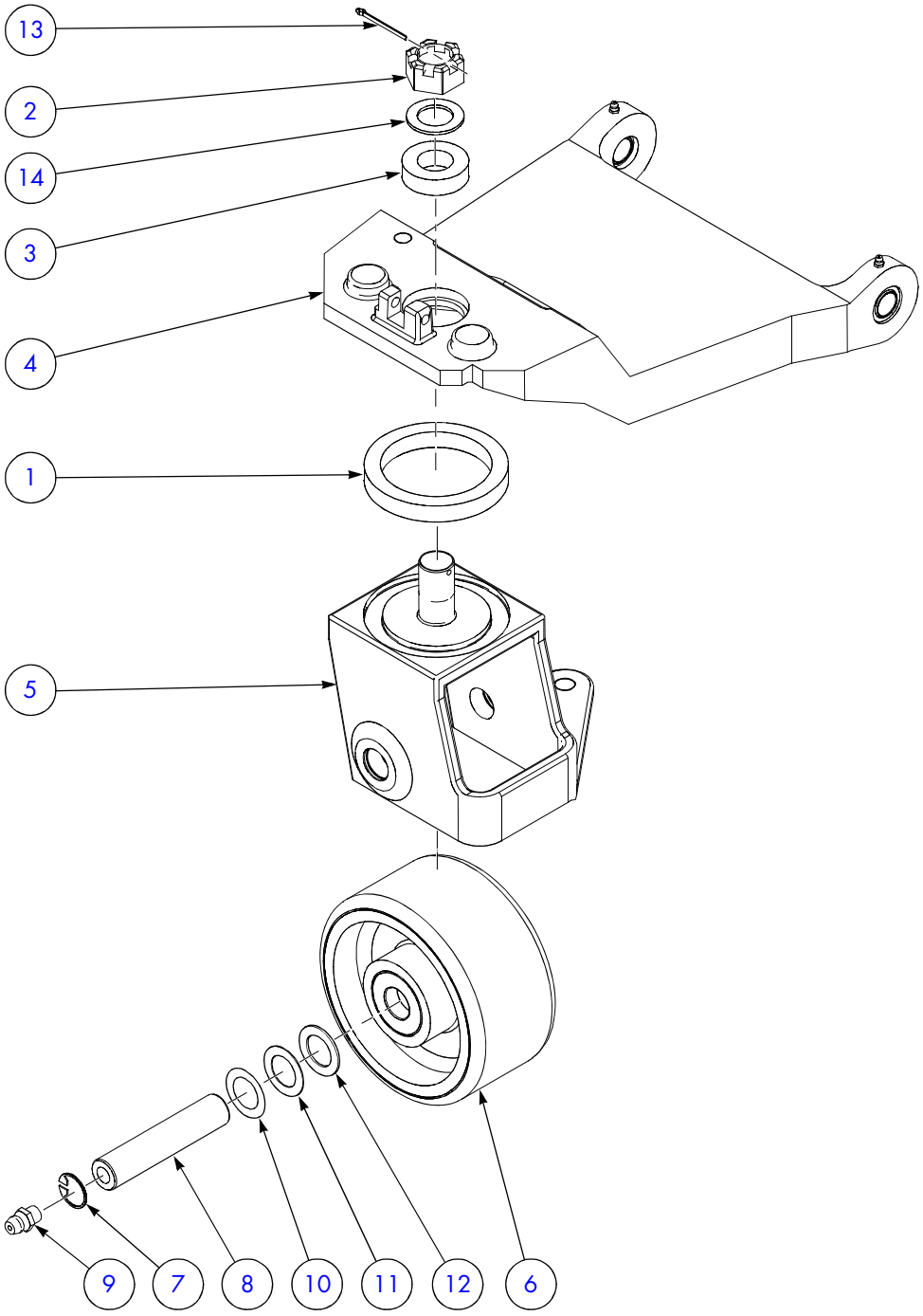
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Steered Idler Wheel Assembly

Figure 3-2: Steered Idler Wheel Assembly



R828_013_265_B

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List 3-2: Steered Idler Wheel Assembly

FIGURE 3-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	444-326	Bearing, Thrust	R
2	1	761-882	Nut	
3	1	447-533	Bearing, Cup	R
	1	447-077	Bearing, Cone	R
4	1	828-013-261	Frame Assembly	
5	1	828-006-696	Housing, Steered Idler Wheel	
6	1	828-000-234/007	Wheel Assembly, Caster (includes Tan Wheel)	
	1	632-078/007	Wheel, Caster, Poly, Tan	R
	1	632-078/107	Wheel, Caster, Poly, Brown	R
	2	441-128	Bearing, Ball	R
7	2	810-022	Ring, Retaining	
8	1	828-006-728	Axle, Caster	
9	1	840-030	Fitting, Grease	
10	AR	828-000-260/001	Shim, Caster (0.03 in. Thick)	
11	AR	828-000-260/002	Shim, Caster (0.06 in. Thick)	
12	AR	828-000-260/003	Shim, Caster (0.12 in. Thick)	
13	1	810-930	Pin, Cotter	
14	1	812-000-112	Spacer, Washer	

R= Recommended Spare

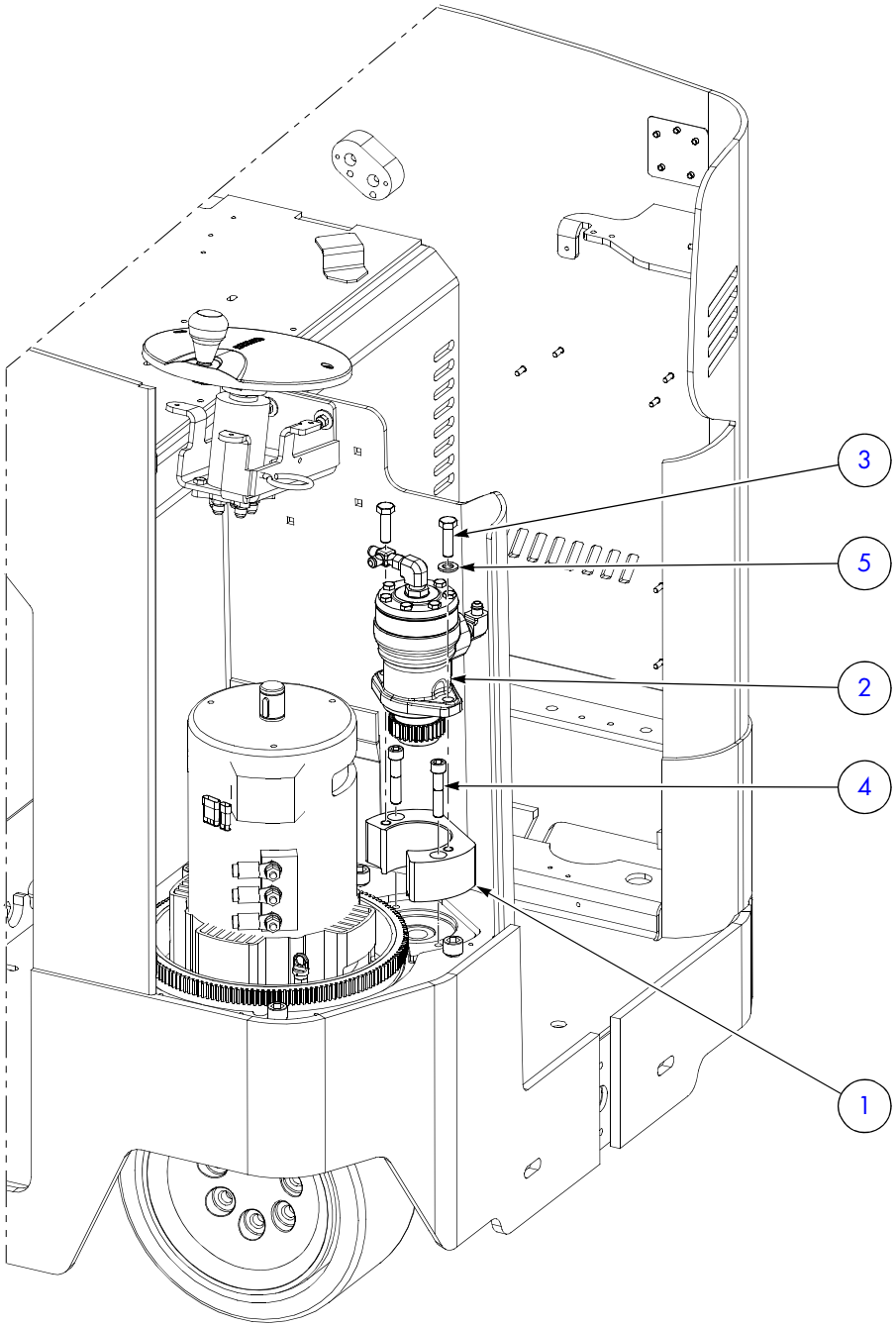
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Steer Motor Installation, DC Lift

Figure 3-3a: Steer Motor Installation, DC Lift

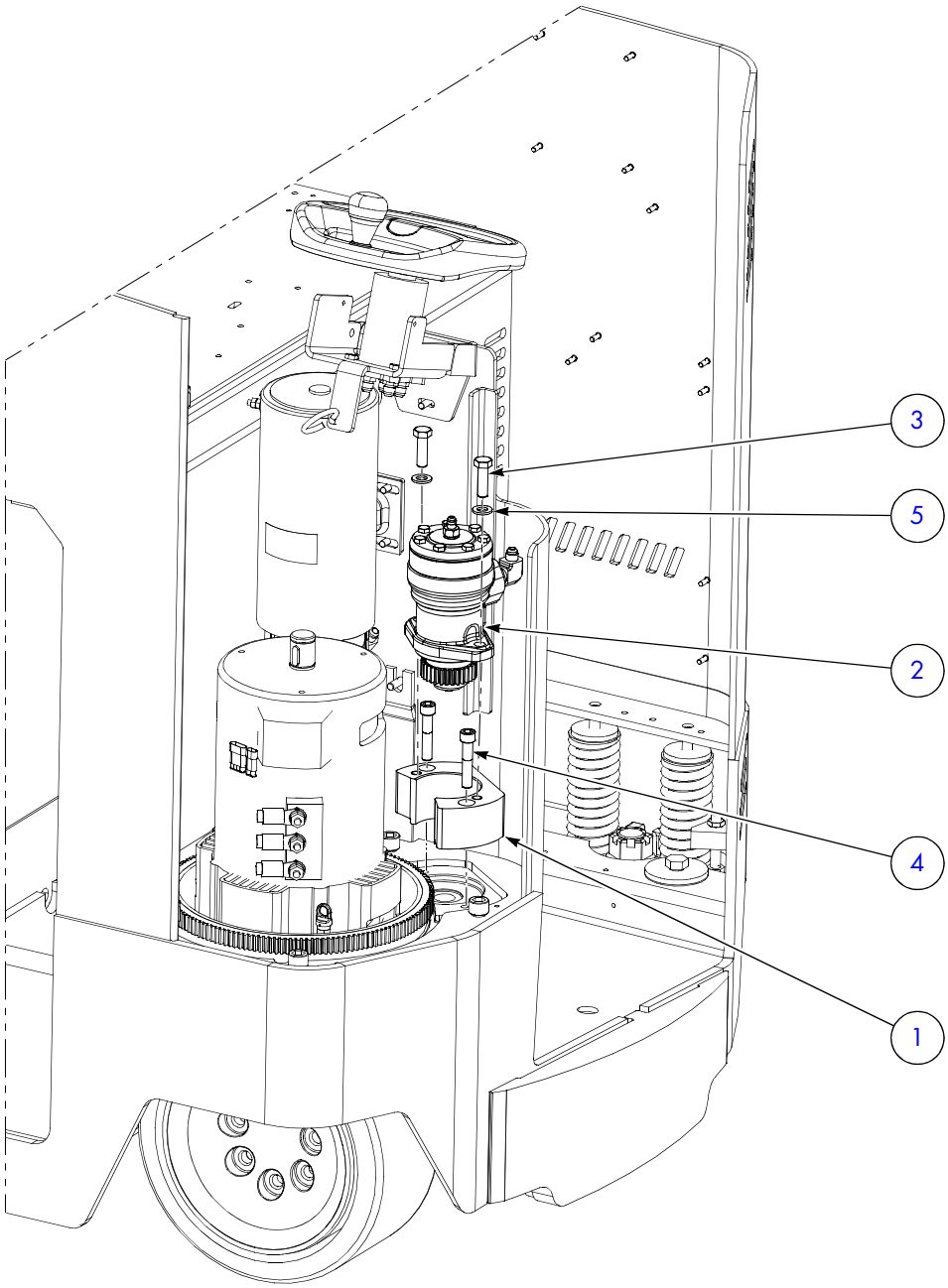


R1019432_A SHT 1 OF 2

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Steer Motor Installation, DC Lift

Figure 3-3b: Steer Motor Installation, DC Lift



SIDE STANCE

R1019445_B SHT 2 OF 2

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List 3-3: Steer Motor Installation, DC Lift

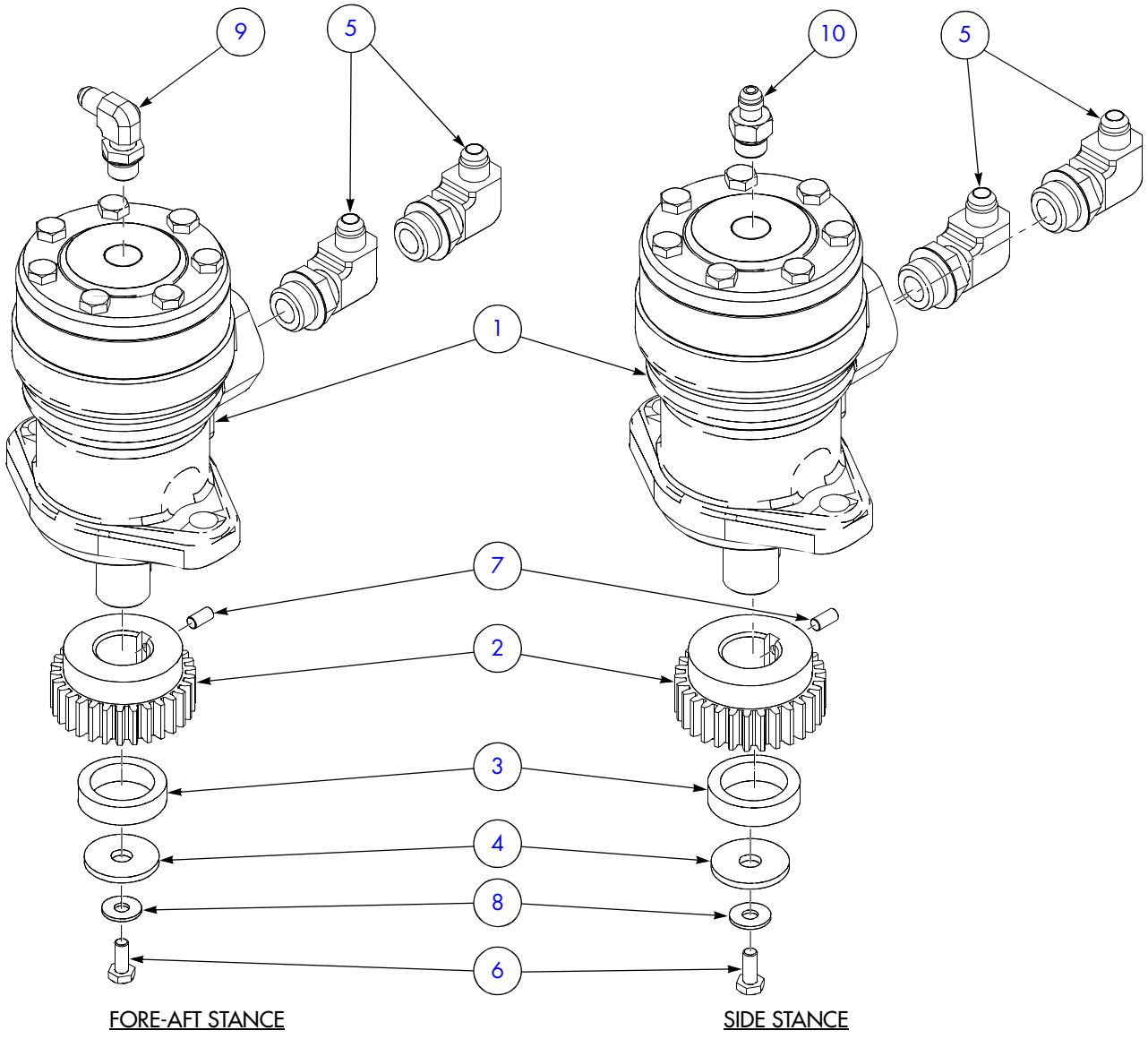
FIGURE 3-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1016712	Block, Machined	
2	1	1019433	Steer Motor Assembly, DC Lift (See Figure 3-4.)	A
	1	1019447	Steer Motor Assembly, DC Lift (See Figure 3-4.)	B
3	2	5-001-025	Screw	
4	2	5-002-019	Screw	
5	2	5-018-008	Washer, Flat	

A= Fore-Aft Stance
B= Side Stance

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Hydraulic Steer Motor Assembly, DC Lift

Figure 3-4: Hydraulic Steer Motor Assembly, DC Lift



R1019433_B, R1019447_B

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List 3-4: Hydraulic Steer Motor Assembly, DC Lift

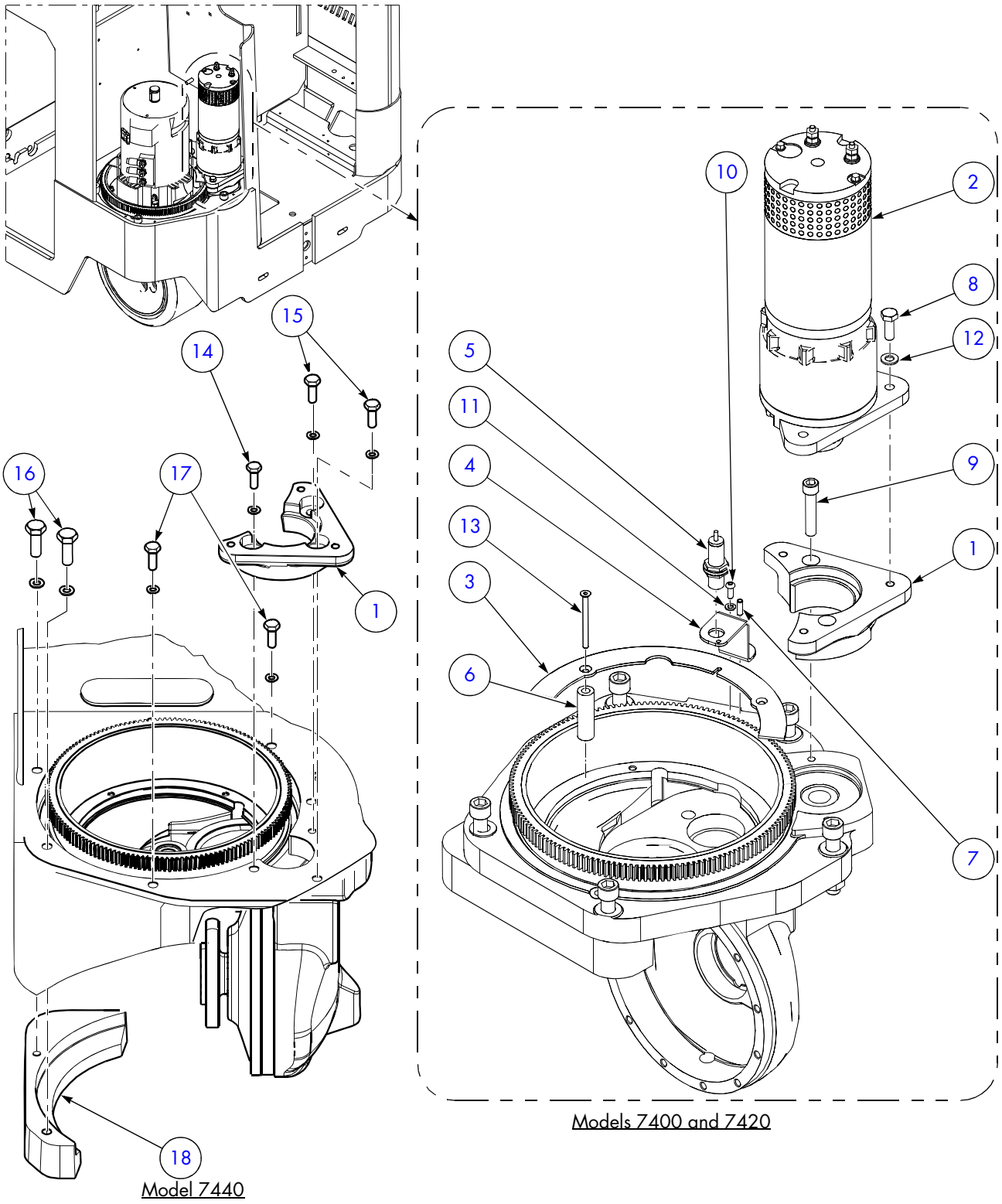
FIGURE 3-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1019447	Steer Motor Assembly, DC Lift	B
		1019433	Steer Motor Assembly, DC Lift	A
1	1	1013151	Motor, Steer, DC Lift (includes:)	
	1	1013151/01	Kit, Seal, Steer Motor	R
2	1	1016477	Gear, Spur, Steer Motor	
3	1	1016966	Washer, Spacer	
4	1	771-152	Washer, Flat	
5	2	792-557	Fitting, Elbow, Steer Motor Inlet	
6	1	710-008	Screw	
7	1	5-006-007	Screw, Set	
8	1	771-116	Washer, Flat	
9	1	792-616	Fitting, Elbow, Steer Motor Outlet	A
10	1	792-568	Fitting, Straight, Steer Motor Outlet	B

A= Fore-Aft Stance, DC Lift Only
B= Side Stance, DC Lift Only
R= Recommended Spare

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Steer Motor Installation, AC Lift

Figure 3-5: Steer Motor Installation, AC Lift



R1023767_A1, R1023767_A2, 1071286_A

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List 3-5: Steer Motor Installation, AC Lift

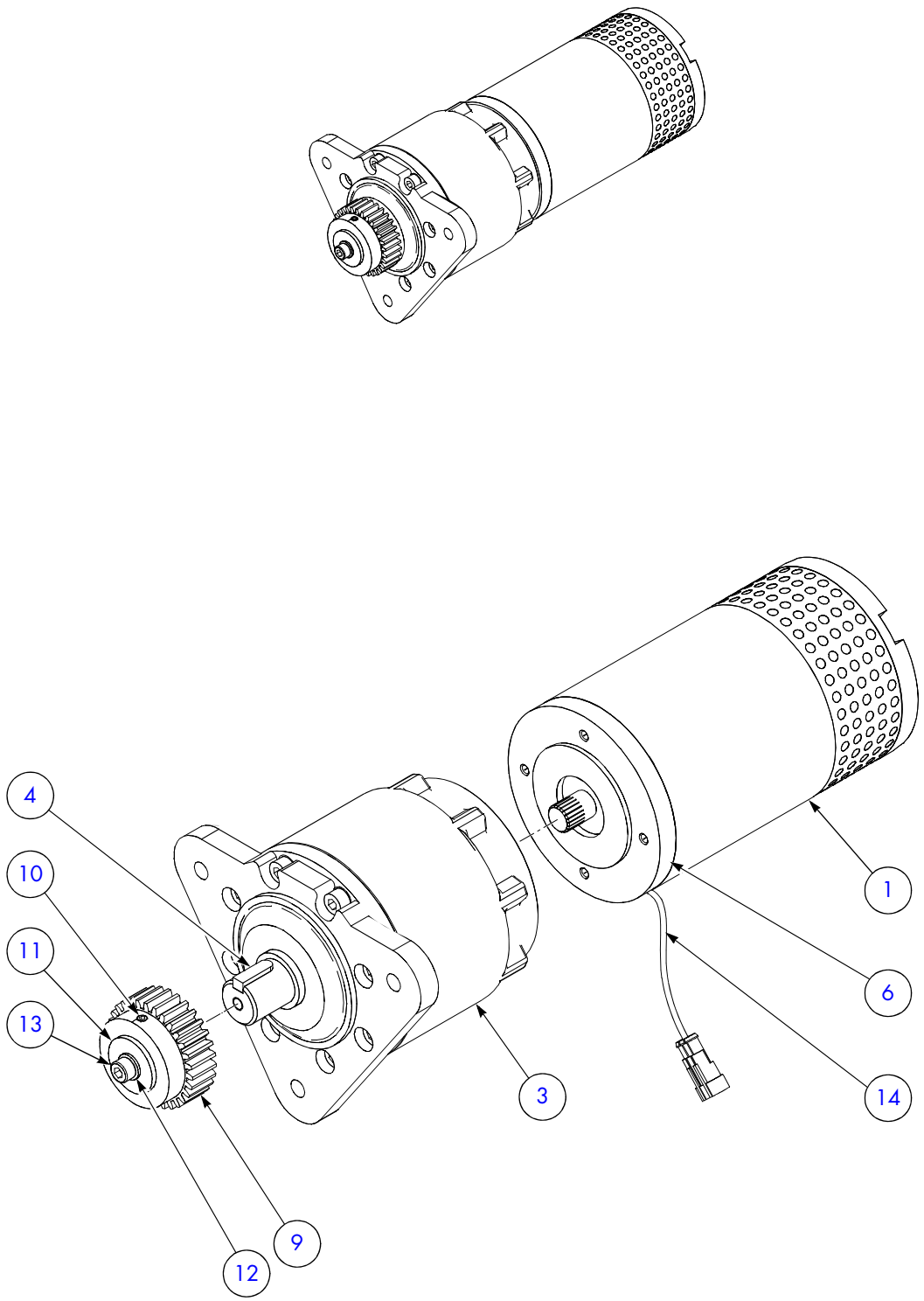
FIGURE 3-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1016710	Block, Machined	D
	1	1070608	Block, Machined	C
2	1	1016523/201	Gearmotor Assembly, Steer, AC Lift, Standard (See Figure 3-6.)	B
	1	1016523/231	Gearmotor Assembly, Steer, AC Lift, EE (See Figure 3-6.)	A
3	1	1079025	Rail, Sensing, Steer Limit	
4	1	1023540	Bracket, Proximity Switch Sensor	
5	1	1022003/001	Harness Assembly, Proximity Switch Sensor	
6	2	114-019-113	Standoff, Flag	D
7	1	810-756	Pin, Spiral	
8	3	5-001-017	Screw	
9	2	5-002-019	Screw	D
10	1	5-003-012	Screw	
11	1	5-018-005	Washer, Flat	
12	3	5-018-007	Washer, Flat	
	9	5-018-008	Washer, Flat	C
13	2	5-004-034	Screw	D
	2	5-004-037	Screw	C
14	1	5-001-059	Screw	C
15	2	5-001-026	Screw	C
16	2	5-001-028	Screw	C
17	4	5-001-039	Screw	C
18	1	1046229	Stop, Steering	C

A= EE
B= E (Standard)
C= Model 7440
D= Models 7400 and 7420

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Steer Gearmotor Assembly, AC Lift

Figure 3-6: Steer Gearmotor Assembly, AC Lift



R1016523_201, R1016523_231_A

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List 3-6: Steer Gearmotor Assembly, AC Lift

FIGURE 3-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1016523/201KIT	Gearmotor Assembly, Steer, AC Lift, Standard	A
		1016523/231	Gearmotor Assembly, Steer, AC Lift, EE	B
1	1	1016481/450	Motor, Steer, AC Lift (includes item 2)	
	1	1016482/450	Motor, Steer, AC Lift (includes item 2)	B
2	1	1016523/215	Brush Set, Steer Motor (AC Lift) (Not Shown)	R
3	1	1016523/220	Gearbox, Steer Gearmotor (AC Lift)	
4	1	1016523/223	Key	
5	1	1016523/232	Coupling, Steer Gearmotor (Not Shown)	
6	1	1016523/236	End Bell, Drive End, Steer Motor	
7	4	1020545/483	Spring, Brush (Not Shown)	
8	1	1016523/234	End Bell, Commutator End, Steer Motor, Complete (includes plate, brushes, leads; not shown)	
9	1	1014726	Gear, Spur, Steer Motor	
10	1	5-006-007	Screw, Set	
11	1	771-152	Washer, Flat	
12	1	5-018-006	Washer, Flat	
13	1	5-002-007	Screw	
14	1	1016481/4EC	Bearing, Encoder, Steer Motor	

A= E (Standard)
B= EE
R= Recommended Spare

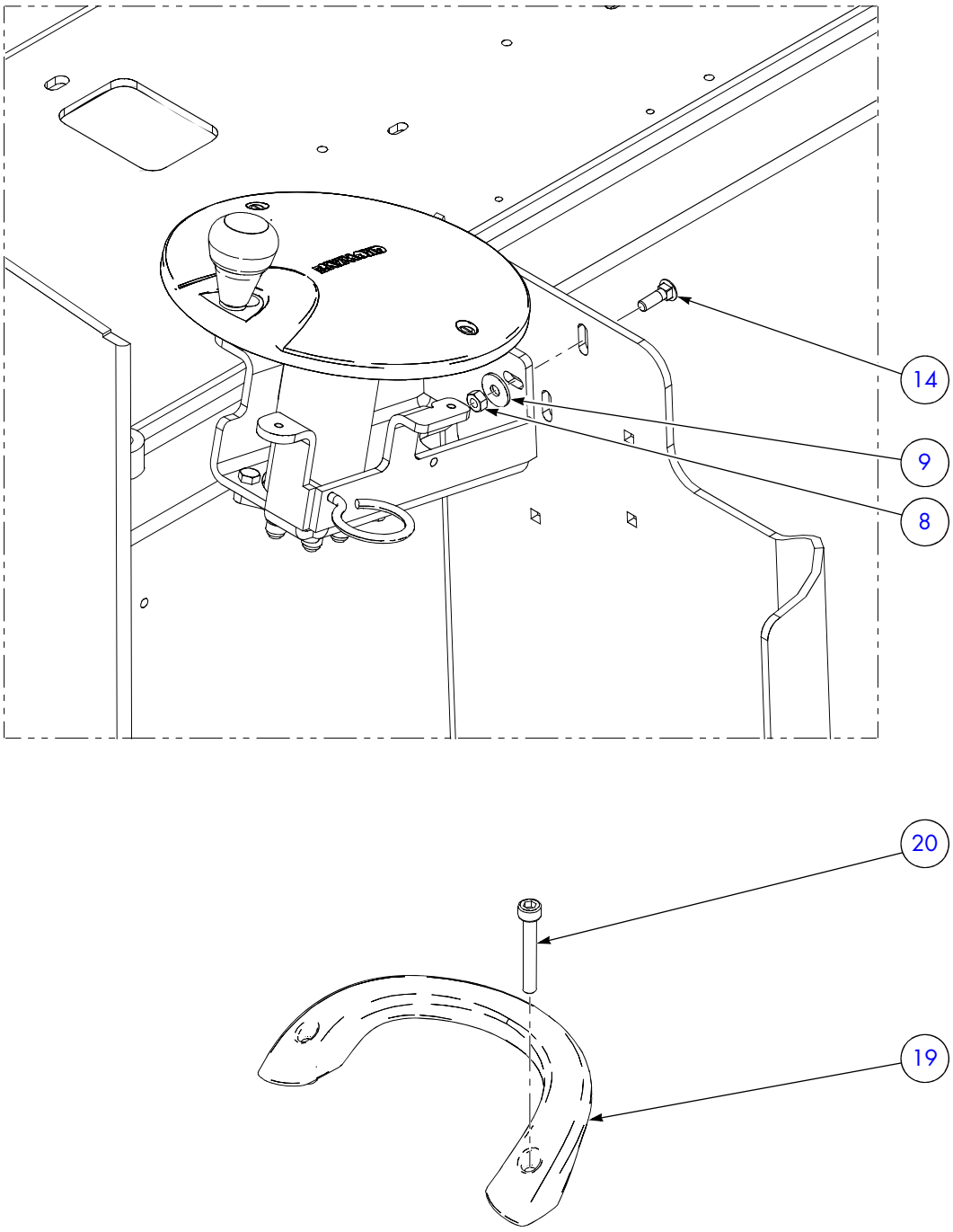
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Steering Wheel Installation, Fore-Aft, DC Lift

Figure 3-7a: Steering Wheel Installation, Fore-Aft, DC Lift

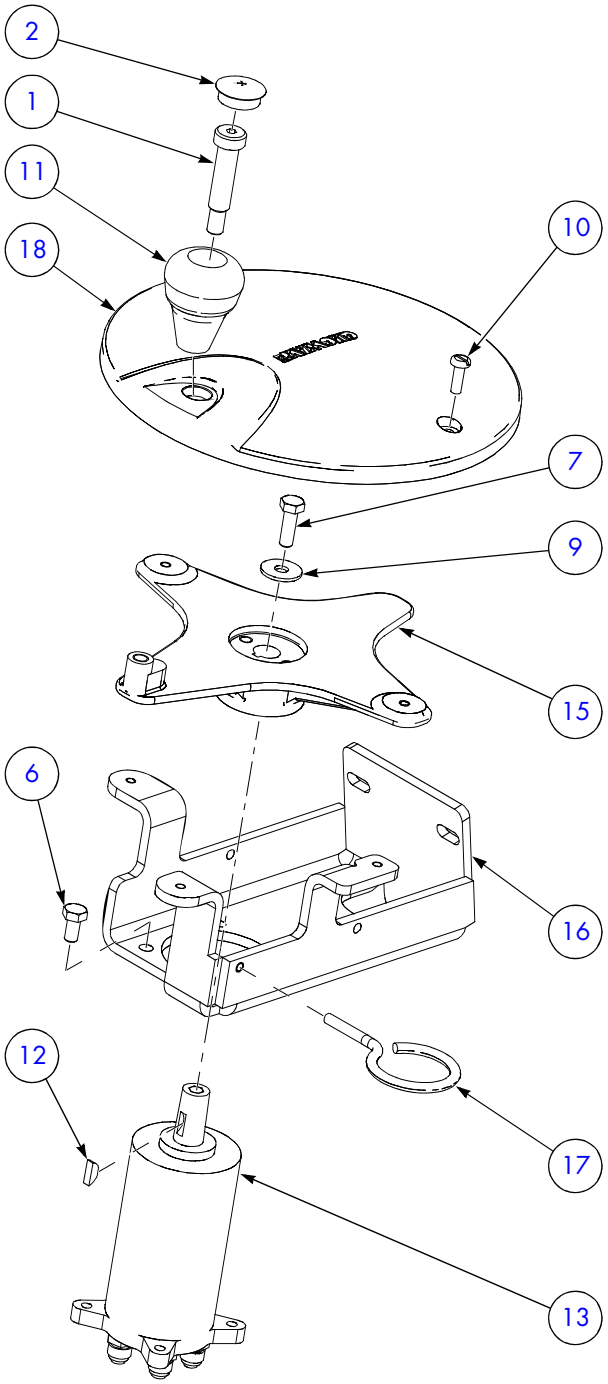


R1008517_A1, R1008517_A3 SHT 1 OF 2

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Steering Wheel Installation, Fore-Aft, DC Lift

Figure 3-7b: Steering Wheel Installation, Fore-Aft, DC Lift



R1008517_A2 SHT 2 OF 2

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List 3-7: Steering Wheel Installation, Fore-Aft, DC Lift

FIGURE 3-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	716-137	Bolt, Shoulder	
2	1	861-312	Plug	
6	4	5-001-007	Screw	
7	1	5-001-009	Screw	
8	3	5-016-005	Nut, Nylon Locking	
9	4	5-018-012	Washer, Flat	
10	2	717-107/001	Screw	
11	1	828-005-714	Knob, Steering	
12	1	5-026-008	Key, Woodruff	
13	1	1008426	Orbitrol, Steering (includes:)	
	1	1008426/01	Kit, Seal, Steer Motor	
14	3	1009565/001	Bolt, Carriage	
15	1	1023460	Wheel, Steering	
16	1	1013968	Bracket, Steer Valve	
17	1	828-006-317	Ring	
18	1	1011304/002	Cover, Steer Wheel	A
	1	1011304/102	Cover, Steer Wheel	B
19	1	1012455	Handle, Steering Wheel	B
20	2	714-075	Screw	B

A= Without Ergo Bar
B= With Ergo Bar

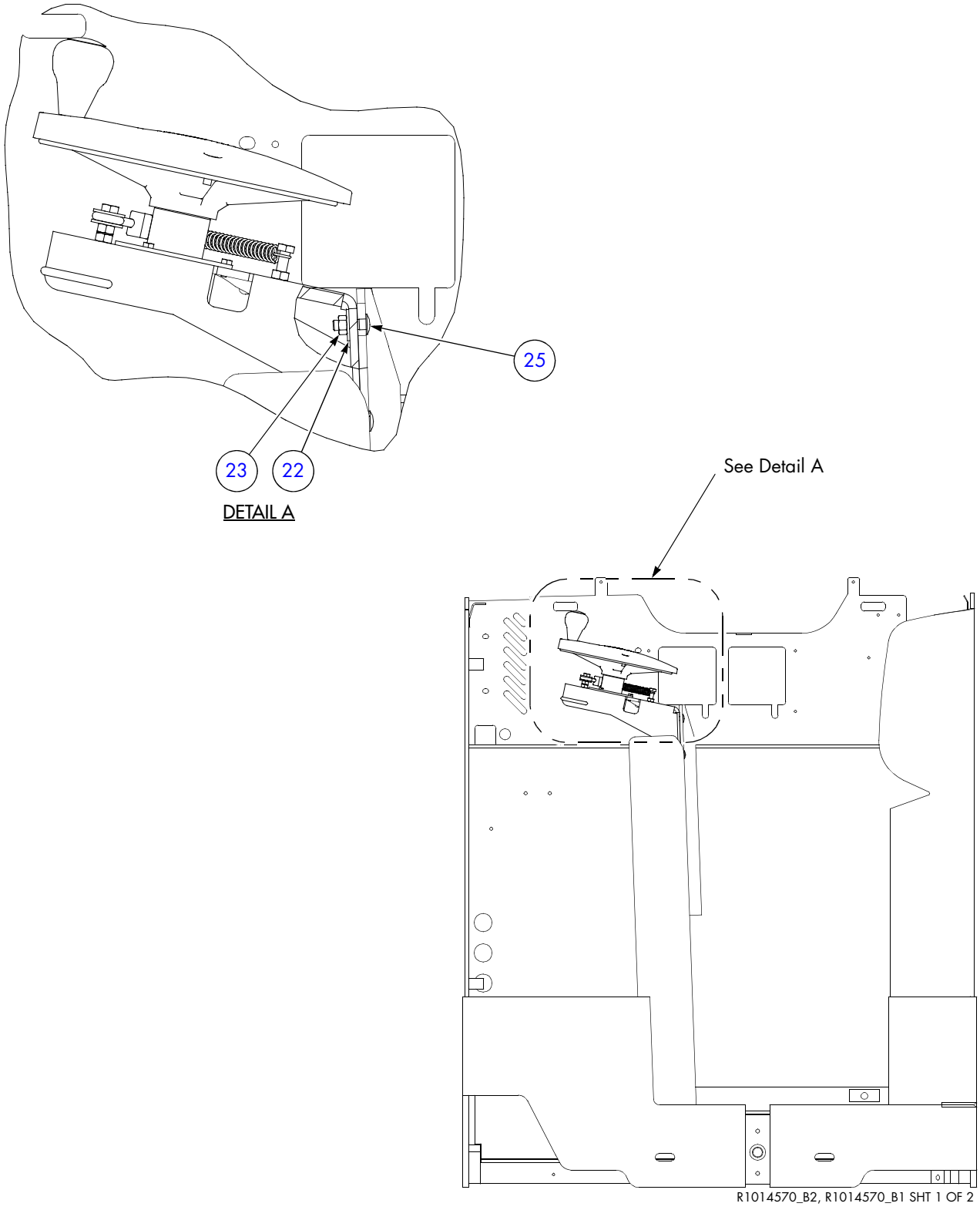
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Steering Wheel Installation, Fore-Aft, AC Lift

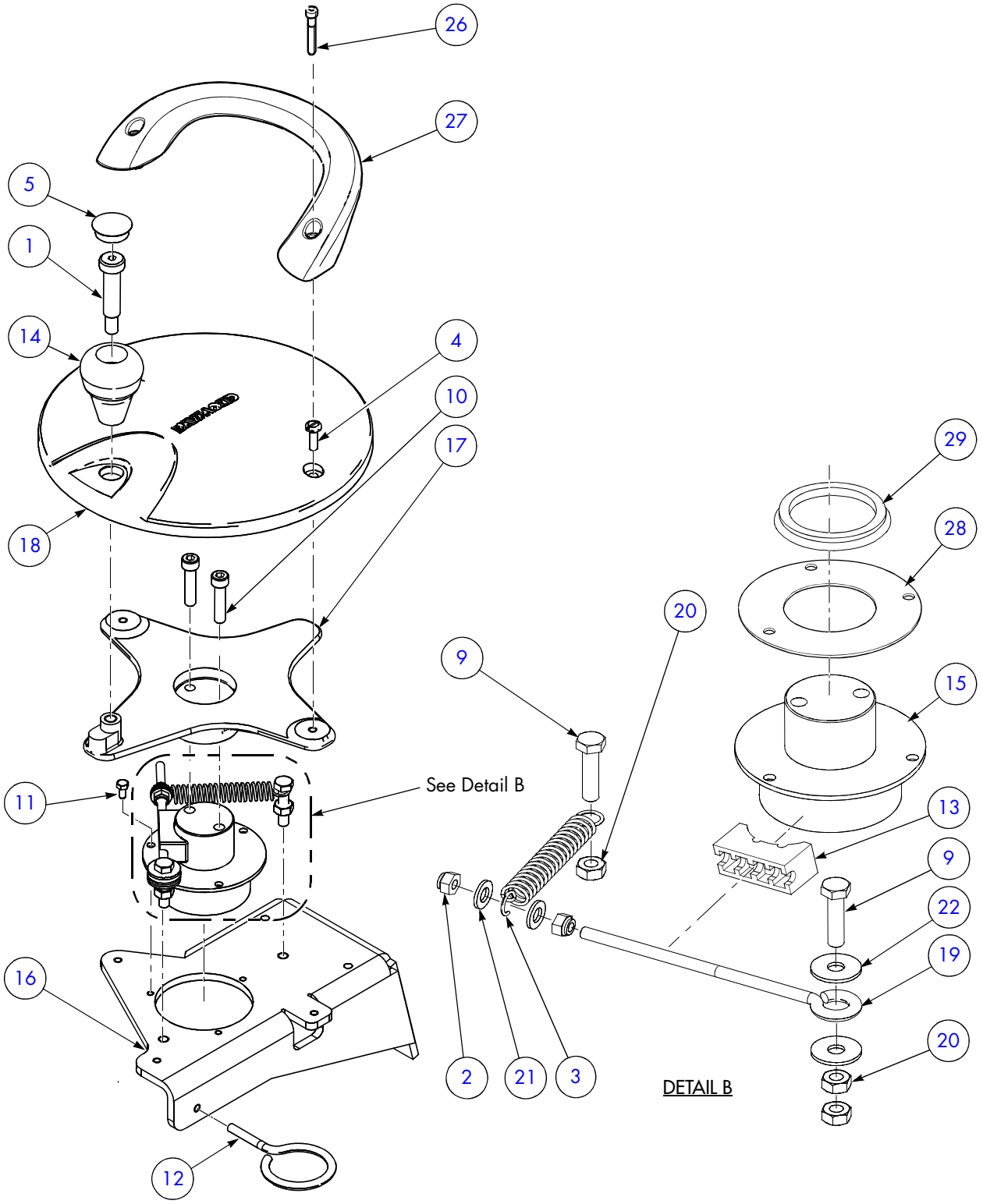
Figure 3-8a: Steering Wheel Installation, Fore-Aft, AC Lift



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Steering Wheel Installation, Fore-Aft, AC Lift

Figure 3-8b: Steering Wheel Installation, Fore-Aft, AC Lift



R1014346_A1, R1014346_G2 SHT 2 OF 2

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List 3-8: Steering Wheel Installation, Fore-Aft, AC Lift

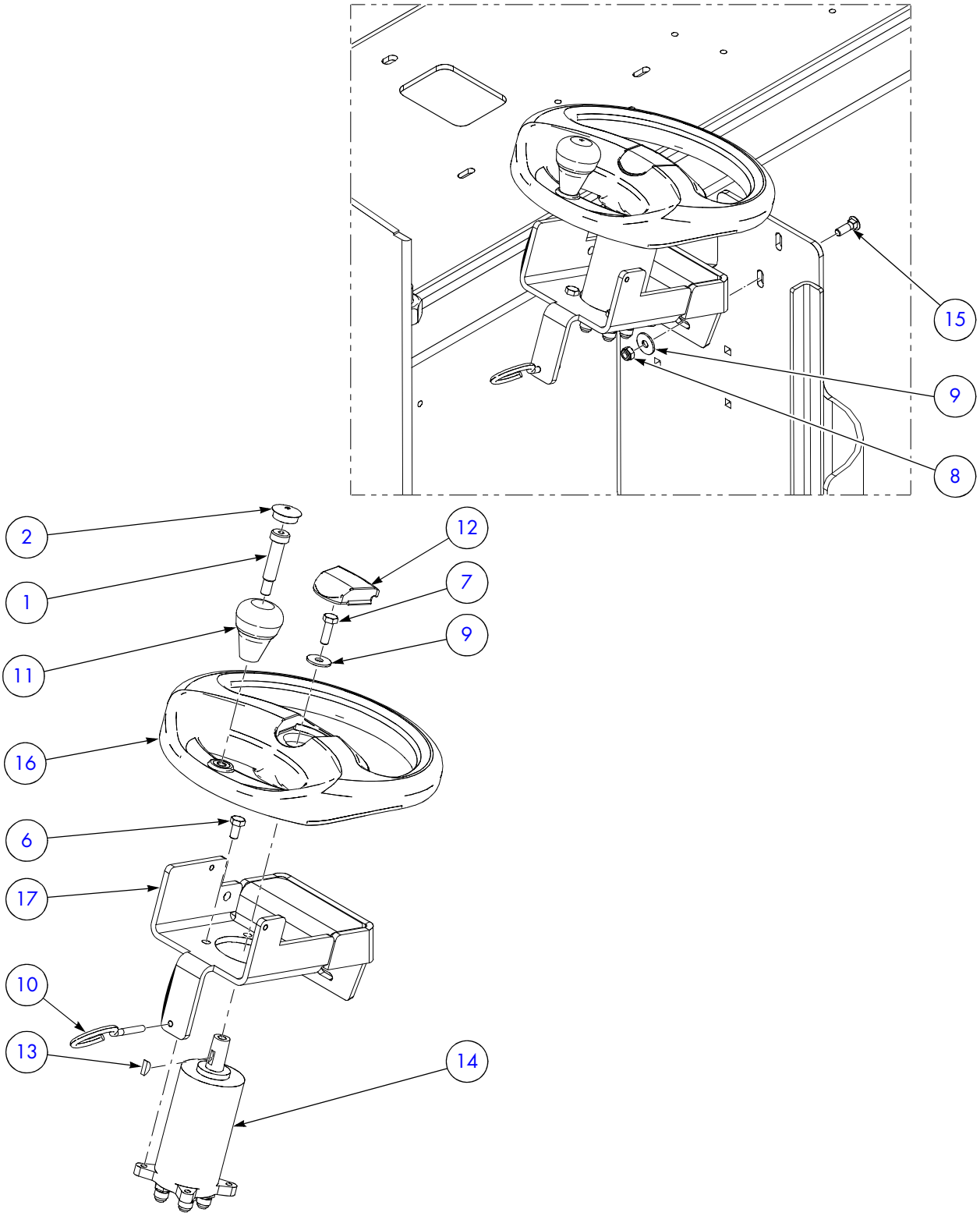
FIGURE 3-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	716-137	Bolt, Shoulder	
2	2	760-006	Nut, Lock	
3	1	830-052	Spring, Tension	R
4	2	717-107/001	Screw	
5	1	861-312	Plug	
9	2	5-001-010	Screw	
10	2	5-002-009	Screw	
11	3	5-001-051	Screw	
12	1	828-006-317	Ring	
13	1	1030462	Snubber, Friction Block, Steering Wheel, AC Lift	
	1	1080805	Snubber, Friction Block, Steering Wheel, AC Lift	
14	1	828-005-714	Knob, Steering	
15	1	1012203	Encoder, Steering	R
16	1	1013969	Bracket, Steering Encoder, Fore-Aft Stance	
17	1	1010352/001	Wheel Mount, Steering	
18	1	1011304/001	Cover, Steer Wheel	A
	1	1011304/101	Cover, Steer Wheel	B
19	1	1014309	Bolt, Eye	
20	6	5-015-005	Nut	
21	2	5-018-006	Washer, Flat	
22	5	5-018-012	Washer, Flat	
23	3	5-016-005	Nut, Nylon Locking	
25	3	1009565/001	Bolt, Carriage	
26	2	714-075	Screw	B
27	1	1012455	Handle, Steering Wheel	B
28	1	1079031	Washer	
29	1	1079032	Seal, V Ring	
30	1	5-001-063	Screw (Not Shown)	

A= Without Ergo Bar
B= With Ergo Bar
R= Recommended Spare

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Steering Wheel Installation, Side Stance, DC Lift

Figure 3-9: Steering Wheel Installation, Side Stance, DC Lift



R1019152_D1, R1019152_D2

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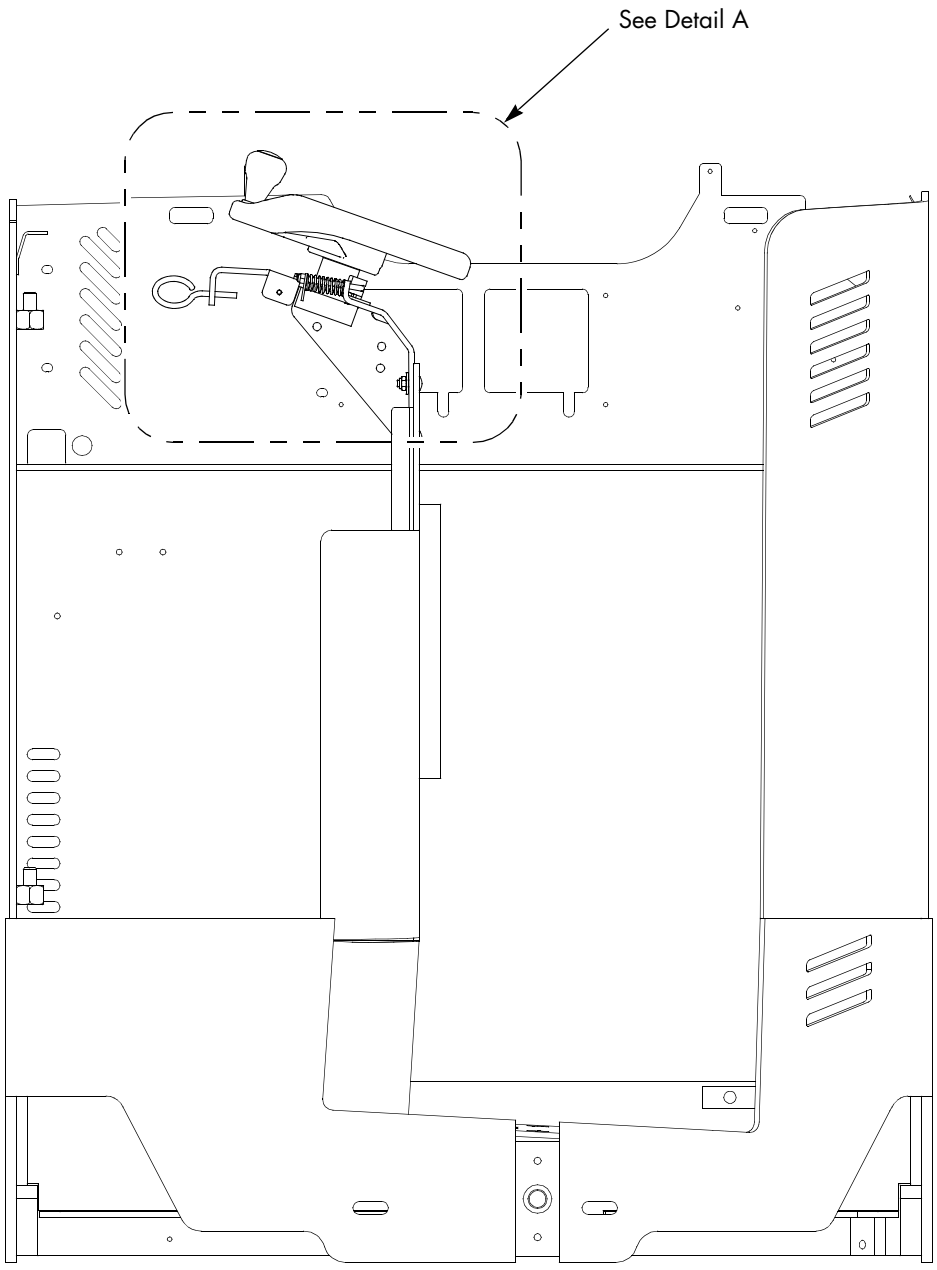
List 3-9: Steering Wheel Installation, Side Stance, DC Lift

FIGURE 3-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	716-137	Bolt, Shoulder	
2	1	861-312	Plug	
6	4	5-001-007	Screw	
7	1	5-001-009	Screw	
8	3	5-016-005	Nut, Nylon Locking	
9	4	5-018-012	Washer, Flat	
10	1	828-006-317	Ring	
11	1	828-005-714	Knob, Steering	
12	1	828-005-716	Plug, Center	
13	1	5-026-008	Key, Woodruff	
14	1	1008426	Orbitrol, Steering (includes:)	
	1	1008426/01	Kit, Seal, Steer Motor	
15	3	1009565/001	Bolt, Carriage	
16	1	1047181	Wheel, Steering	
17	1	1019131	Bracket, Mounting, Steering Orbitrol	

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Steering Wheel Installation, Side Stance, AC Lift

Figure 3-10a: Steering Wheel Installation, Side Stance, AC Lift

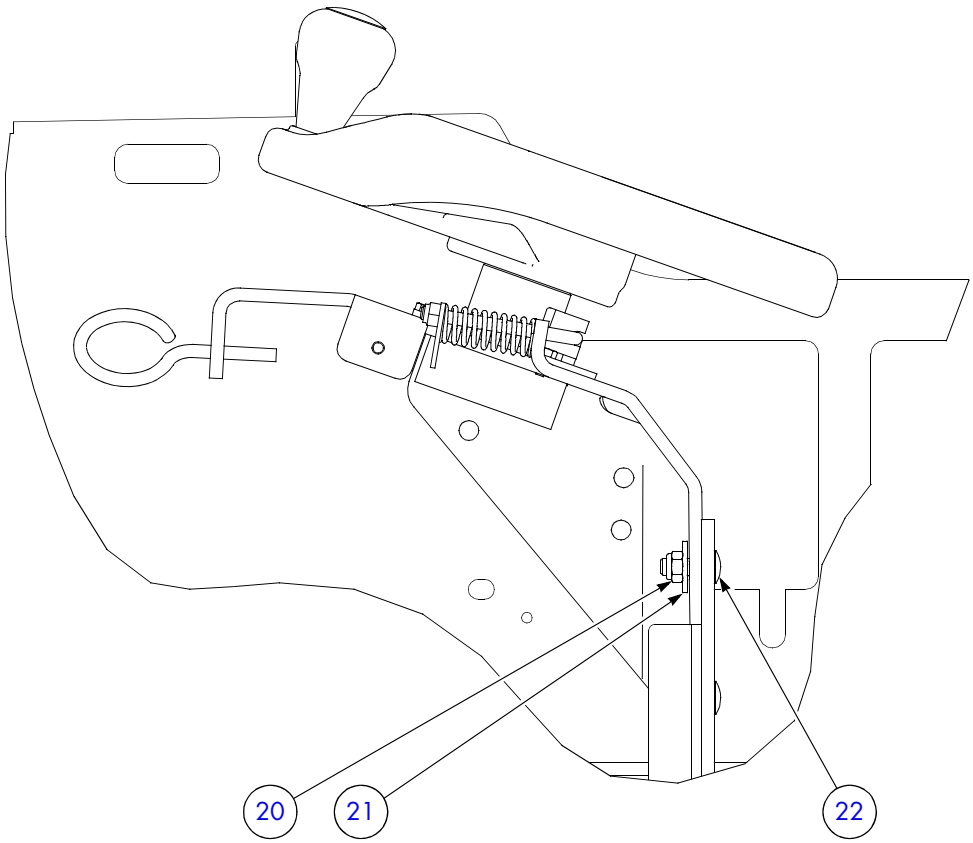


R1017140_A1 SHT 1 OF 3

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Steering Wheel Installation, Side Stance, AC Lift

Figure 3-10b: Steering Wheel Installation, Side Stance, AC Lift



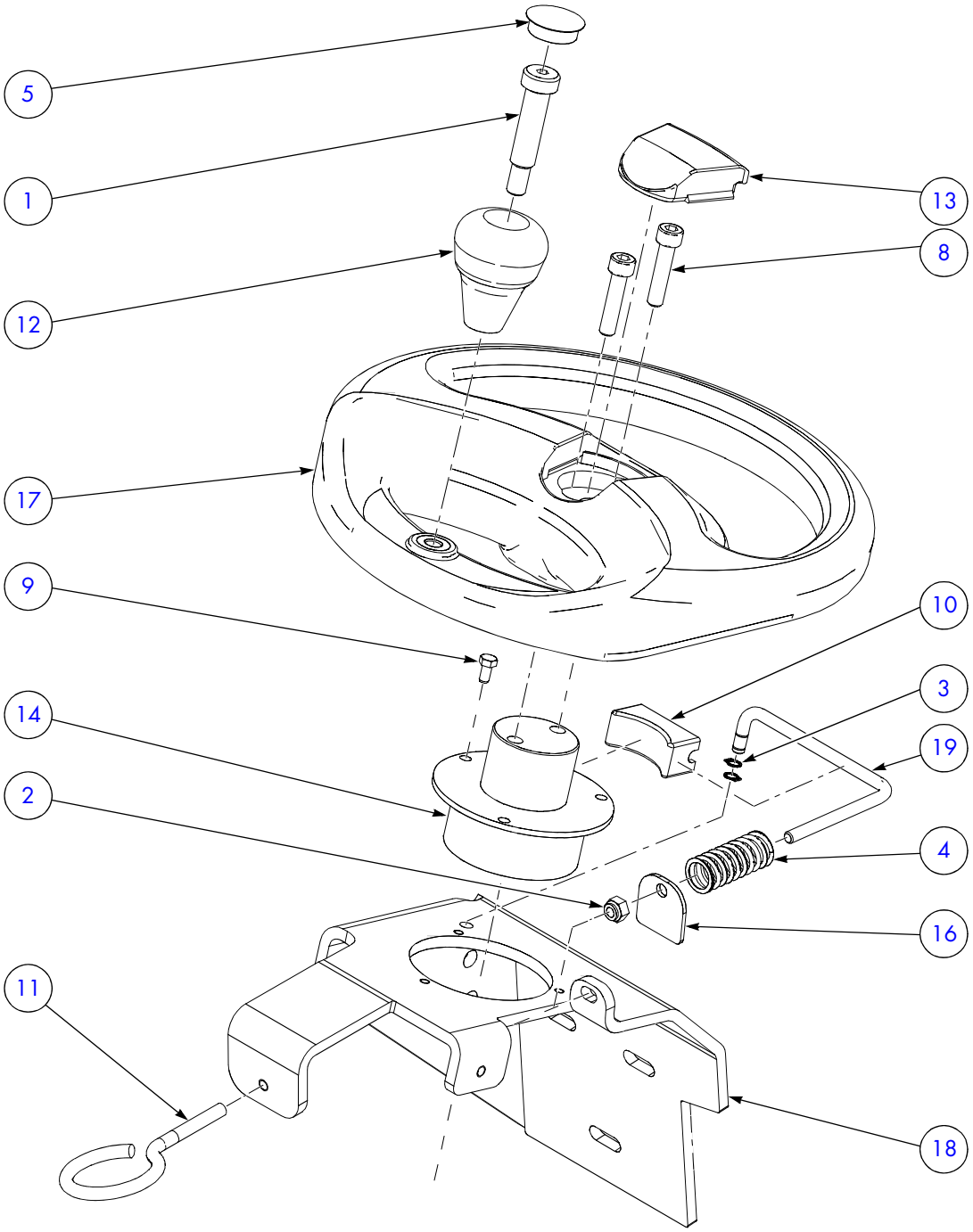
DETAIL A

R1017140_A2 SHT 2 OF 3

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Steering Wheel Installation, Side Stance, AC Lift

Figure 3-10c: Steering Wheel Installation, Side Stance, AC Lift



R1017141_A SHT 3 OF 3

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List 3-10: Steering Wheel Installation, Side Stance, AC Lift

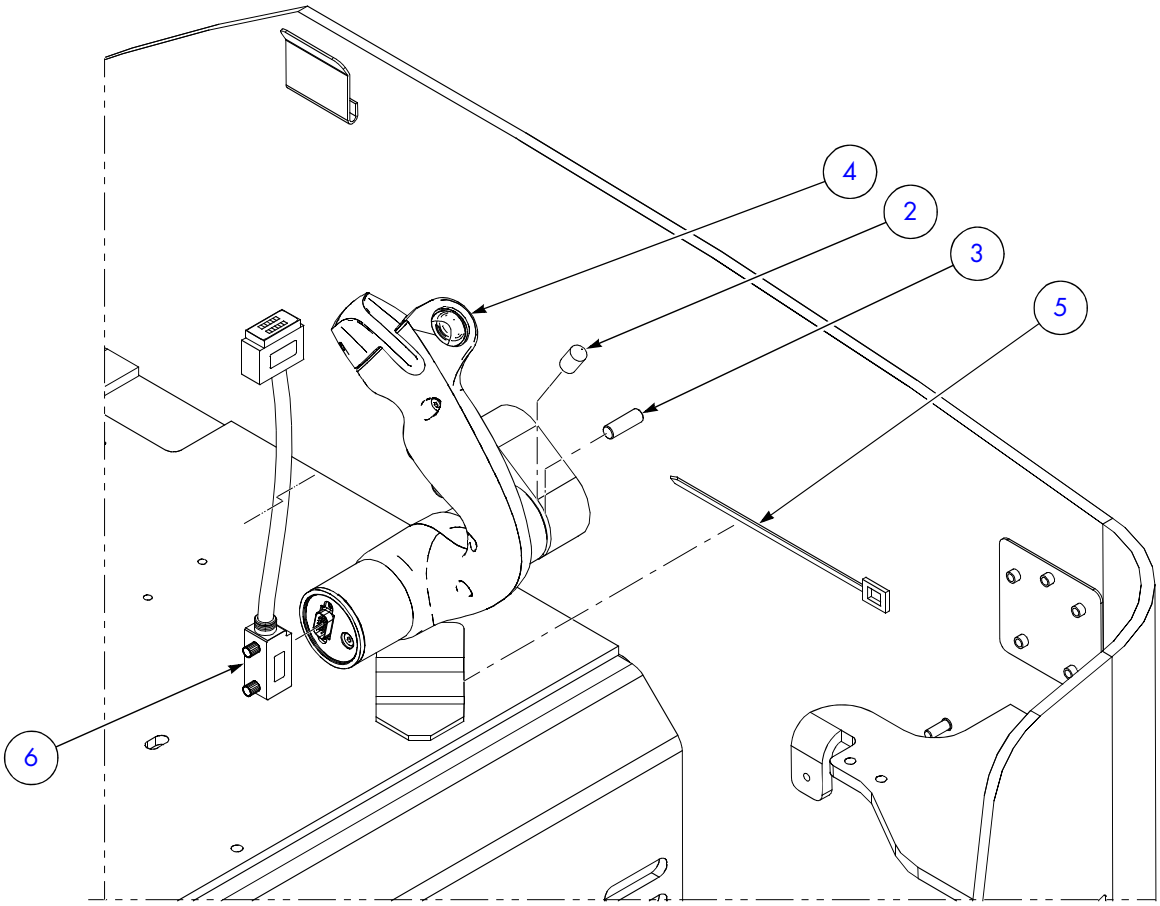
FIGURE 3-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	716-137	Bolt, Shoulder	
2	1	760-006	Nut, Lock	
3	2	810-107	Ring, Retaining	
4	1	830-129	Spring, Compression	R
5	1	861-312	Plug	
8	2	5-002-010	Screw	
9	3	7-710-005/010	Screw	
10	1	1030462	Snubber, Friction Block, Steering Wheel, AC Lift	
11	1	828-006-317	Ring	
12	1	828-005-714	Knob, Steering	
13	1	828-005-716	Plug, Center	
14	1	1012203	Encoder, Steering	R
16	1	1014648	Bar, Spring Retainer	
17	1	1015203/001	Wheel, Steering	
18	1	1017142	Bracket, Steering Encoder, Side Stance	
19	1	1017143	Bar	
20	3	5-016-005	Nut, Nylon Locking	
21	3	5-018-012	Washer, Flat	
22	3	1009565/001	Bolt, Carriage	

R= Recommended Spare

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Control Handle Installation, Fore-Aft, Primary

Figure 3-11: Control Handle Installation, Fore-Aft, Primary



R1015170_B

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List 3-11: Control Handle Installation, Fore-Aft, Primary

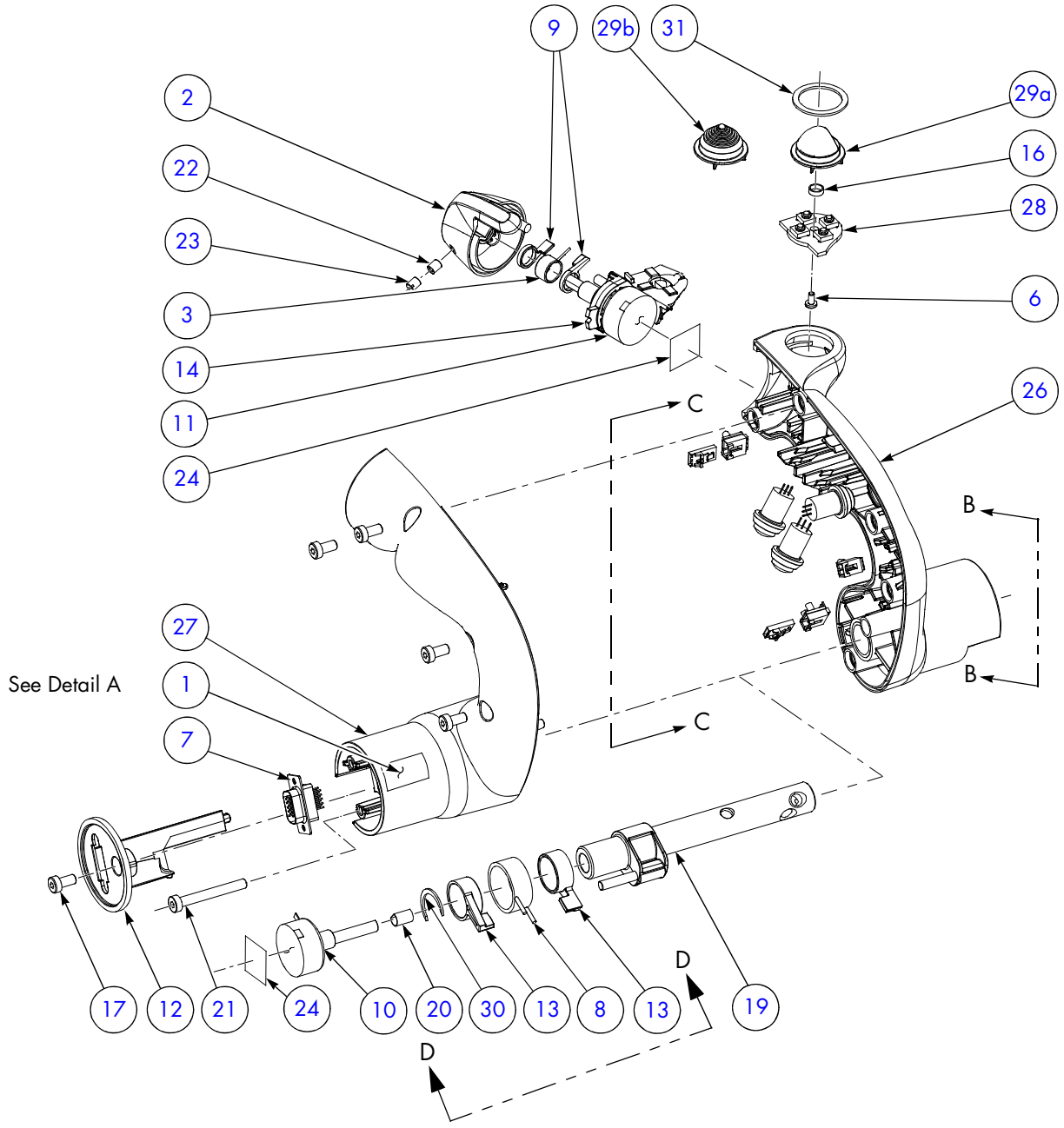
FIGURE 3-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	1	5-006-028	Screw, Set	
3	1	5-024-010	Pin, Spring	
4	1	1014652/102	Handle Assembly, Control, Fore-Aft Stance, Primary (See Figure 3-12a.)(	A
	1	1014652/104	Handle Assembly, Control, Fore-Aft Stance, Primary, Cold Storage (See Figure 3-12a.)	B
	1	1019962/101	Handle Assembly, Control, Fore-Aft Stance, Primary, ThermaKit (See Figure 3-13a.)	C
5	1	611-028	Cable Tie	
6	1	1014073	Harness, Control Handle, Fore-Aft Stance, Primary	A, B
	1	1021550	Harness, Control Handle, Fore-Aft Stance, Primary, ThermaKit	C

A= Standard
B= Cold Storage
C= ThermaKit

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Control Handle Assembly, Fore-Aft, Primary

Figure 3-12a: Control Handle Assembly, Fore-Aft, Primary

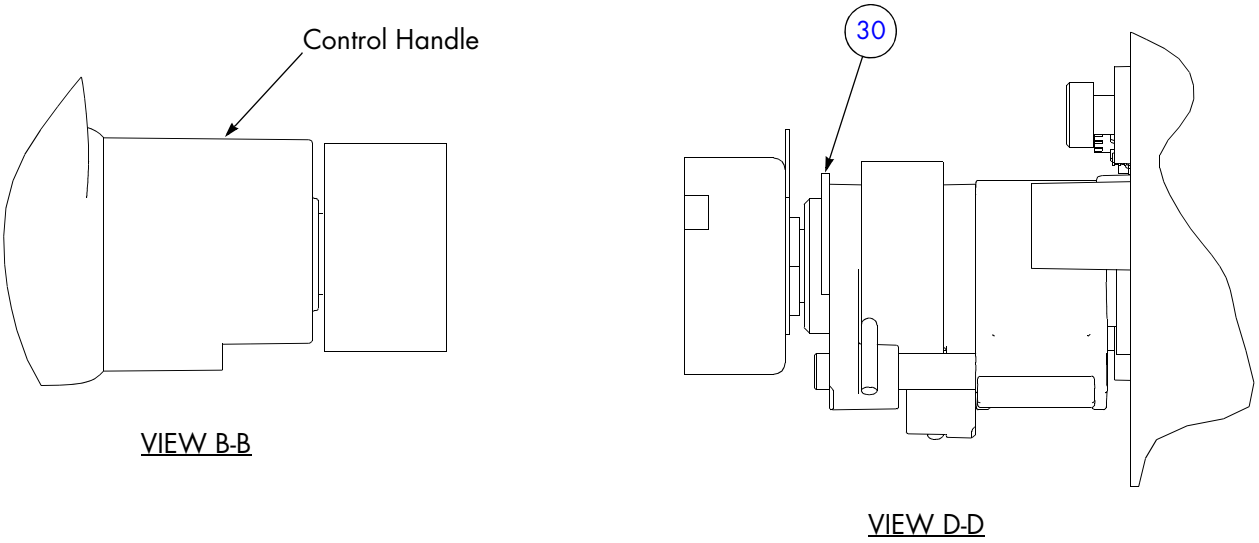


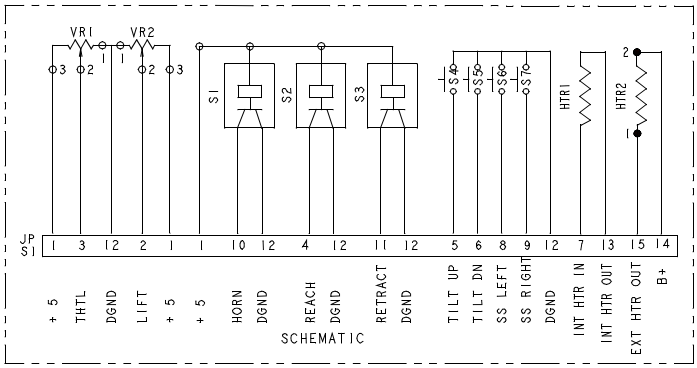
R1014652_E1 SHT 1 OF 3

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Control Handle Assembly, Fore-Aft, Primary

Figure 3-12b: Control Handle Assembly, Fore-Aft, Primary





1014652/001 . . . . .
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9903310019 . . . . .

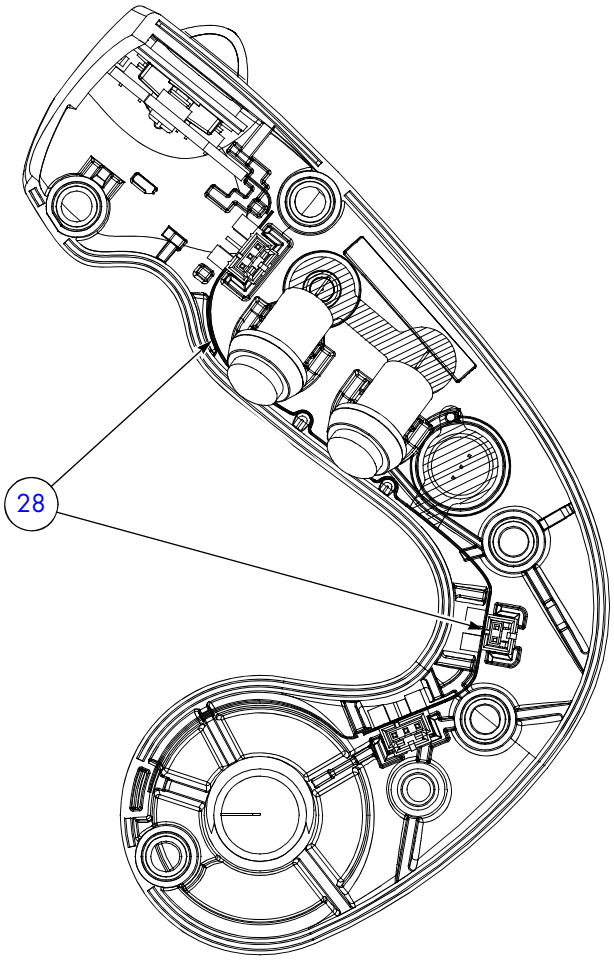
DETAIL A

R1014652_E5, R1014652_E6, R1014652_E1, R1014652_E3 SHT 2 OF 3

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Control Handle Assembly, Fore-Aft, Primary

Figure 3-12c: Control Handle Assembly, Fore-Aft, Primary



VIEW C-C

R1014652_E7 SHT 3 OF 3

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List 3-12: Control Handle Assembly, Fore-Aft, Primary

FIGURE 3-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1014652/102	Handle Assembly, Control, Fore-Aft Stance, Primary	A
	1	1014652/104	Handle Assembly, Control, Fore-Aft Stance, Primary, Cold Storage	B
1	1	411-421/002	Decal, Label	
2	1	1033021/001	Knob Assembly, Lift/Lower	
3	1	1015196	Spring, Torsion, Lift Potentiometer	R
6	1	5-010-004	Screw	
7	1	1-074-076	Screw	
8	1	1015005	Spring, Torsion, Travel Potentiometer	R
9	2	1014996	Arm, Pivot	
10	1	1017546/001	Resistor, Variable, Travel Potentiometer (VR1), Fore-Aft Stance	R
11	1	1017546/002	Resistor, Variable, Lift Potentiometer (VR2), Fore-Aft Stance	R
12	1	1014999	Clamp, Cable	
13	2	1052977	Retainer, Handle	
14	1	1014670	Bracket, Lift Potentiometer, Fore-Aft Stance	
16	1	1086953/001	Spring, Compression	R
17	5	5-002-042	Screw	
19	1	1012040	Shaft Assembly, Pivot	
20	1	1015006/001	Connector, D-Clip	
21	1	5-002-043	Screw	
22	1	1033161	Screw	
23	1	1012268	Screw, Set	
24	1	1023654	Tape, Double-faced	
26	1	1014654	Shell, Handle, Right-Hand, Fore-Aft Stance	
27	1	1014667	Shell, Handle, Left-Hand, Fore-Aft Stance	
28	1	1016152/002	Card Assembly, Circuit, Control Handle, Fore-Aft Stance	C, R
29a	1	1063941	Button, 4-Way	A
29b	1	1063940	Button, 4-Way	B
30	1	810-215	Ring, Snap, External	
31	1	1029121	O-Ring	R

A= Standard
B= Cold Storage
C= No repair parts below this level.
R= Recommended Spare

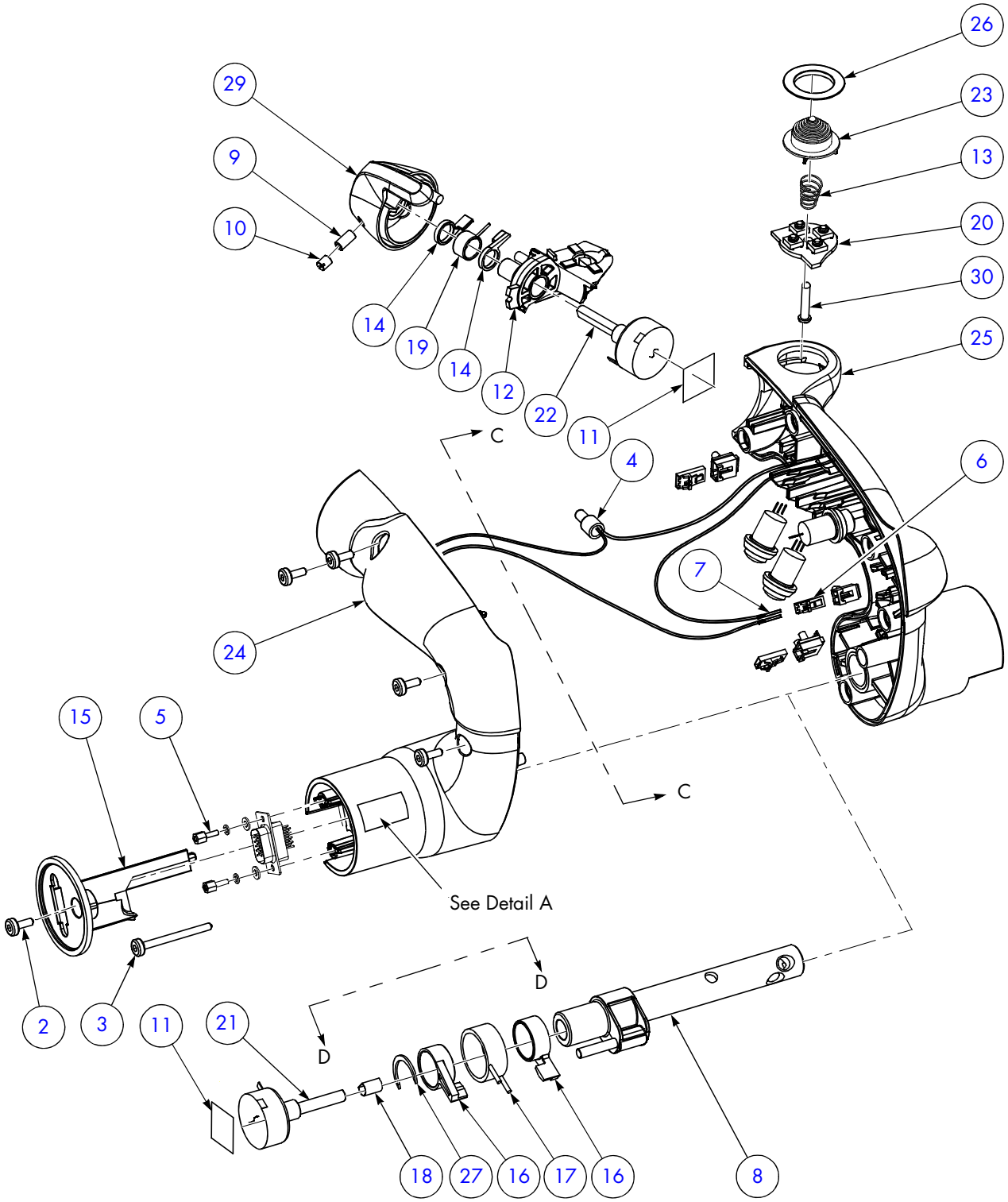
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Control Handle Assembly, Primary, Fore-Aft Stance, ThermaKit

Figure 3-13a: Control Handle Assembly, Primary, Fore-Aft Stance, ThermaKit

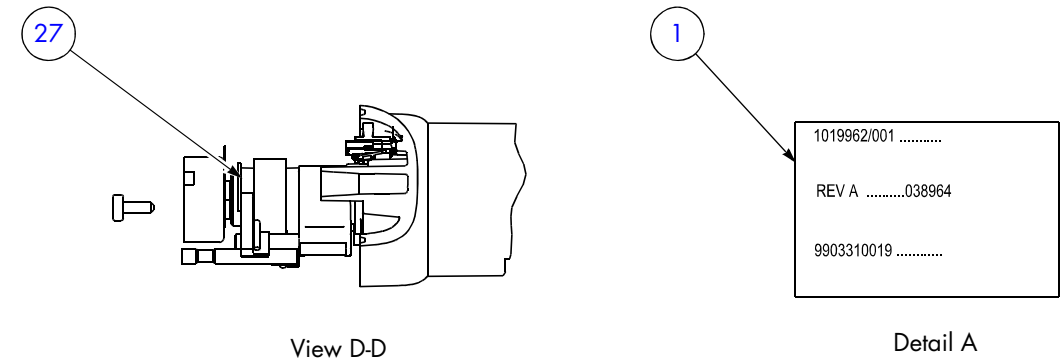


1019962_G1 SHT 1 OF 2

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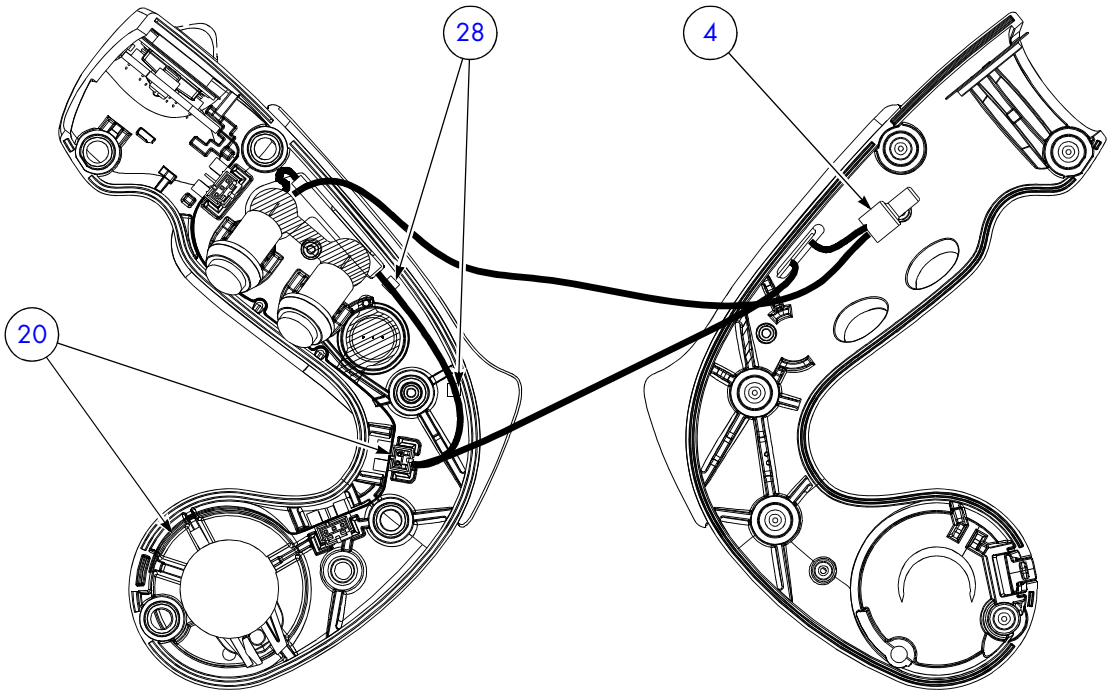
Control Handle Assembly, Primary, Fore-Aft Stance, ThermaKit

Figure 3-13b: Control Handle Assembly, Primary, Fore-Aft Stance, ThermaKit



View D-D

Detail A



View C-C

1019962_G2, 1019962_G3, 1019962_G4 SHT 2 OF 2

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List 3-13: Control Handle Assembly, Primary, Fore-Aft Stance, ThermaKit

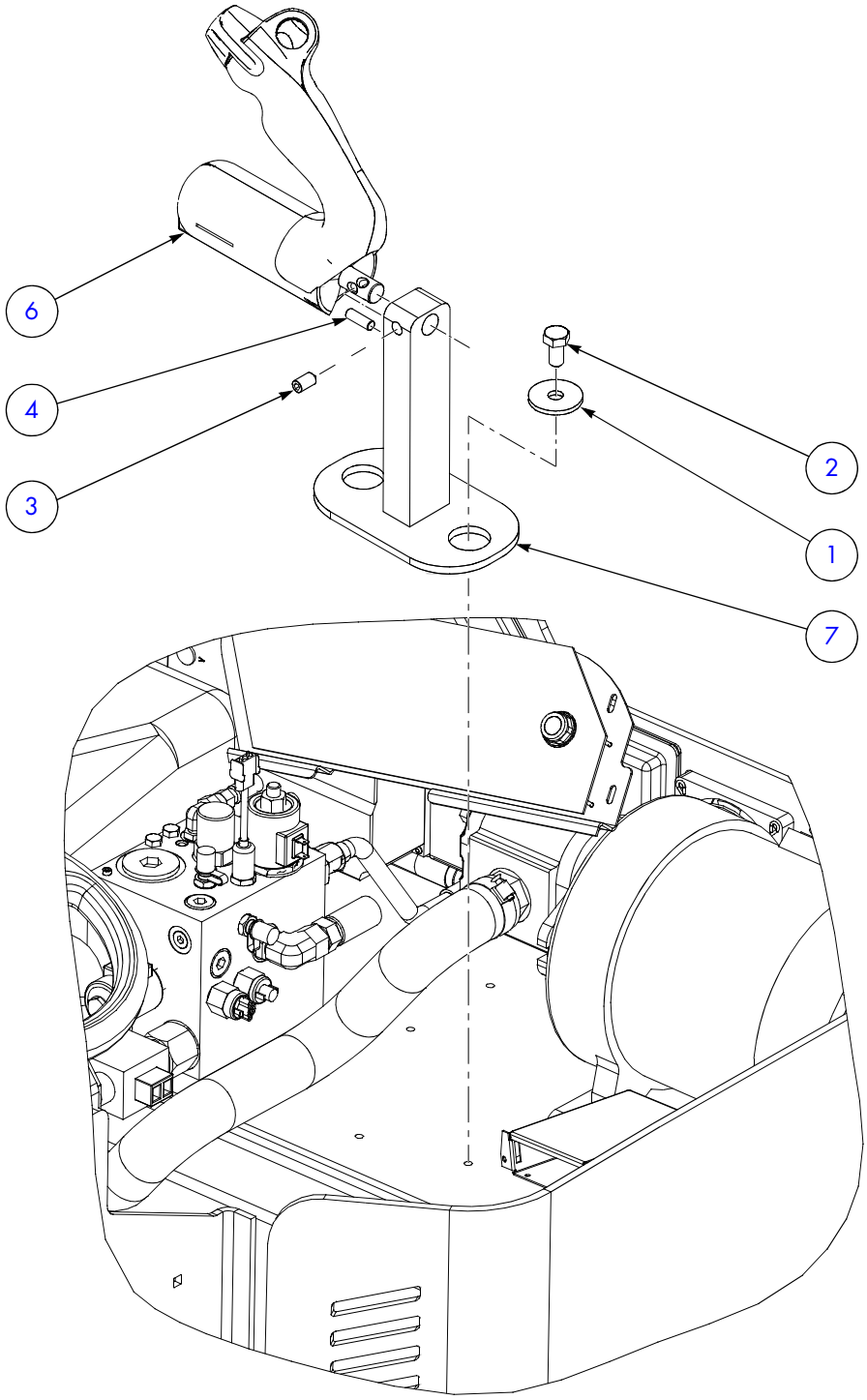
FIGURE 3-13 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	411-421/002	Decal, Label	
2	5	5-002-042	Screw	
3	1	5-002-043	Screw	
4	1	1-010-013/002	Terminal	
5	1	1-074-076	Screw	
6	1	1011392/001	Housing, Connector	
7	2	1011393/001	Contact, Socket	
8	1	1012040	Shaft Assembly, Pivot	
9	1	1033161	Screw	
10	1	1012268	Screw, Set	
11	1	1023654	Tape, Double-faced	
12	1	1014670	Bracket, Lift Potentiometer, Fore-Aft Stance	
13	1	1086953/001	Spring, Compression	R
14	2	1014996	Arm, Pivot	
15	1	1014999	Clamp, Cable	
16	2	1052977	Retainer, Handle	
17	1	1015005	Spring, Torsion, Travel Potentiometer	R
18	1	1015006/001	Connector, D-Clip	
19	1	1015196	Spring, Torsion, Lift Potentiometer	R
20	1	1016152/101	Card Assembly, Circuit, Control Handle, Fore-Aft Stance	R
21	1	1017546/001	Resistor, Variable, Travel Potentiometer (VR1), Fore-Aft Stance	R
22	1	1017546/002	Resistor, Variable, Lift Potentiometer (VR2), Fore-Aft Stance	R
23	1	1063940	Button, 4-Way	
24	1	1021629	Handle, Left-Hand, ThermaKit	
25	1	1021661	Handle, Right-Hand, ThermaKit	
26	1	1029121	Seal	
27	1	810-215	Ring, Snap, External	
28	2	611-029	Cable Tie	
29	1	1033021/001	Knob Assembly, Lift/Lower	
30	1	5-010-004	Screw	H

R= Recommended Spare

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Control Handle Installation, Side Stance

Figure 3-14: Control Handle Installation, Side Stance



R1010639_A

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List 3-14: Control Handle Installation, Side Stance

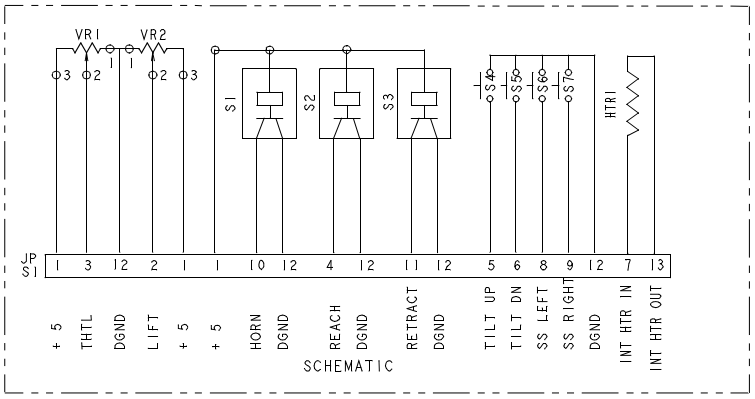
FIGURE 3-14 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	771-152	Washer, Flat	
2	2	5-001-007	Screw	
3	1	5-006-028	Screw, Set	
4	1	5-024-010	Pin, Spring	
5	1	1032083	Harness, Control Handle, Side Stance (Not Shown)	A, B
	1	1022365	Harness, Control Handle, Side Stance, ThermaKit (Not Shown)	C
6	1	1018414/102	Handle Assembly, Control, Side Stance (See Figure 3-15a.)	A
	1	1018414/104	Handle Assembly, Control, Side Stance, Cold Storage (See Figure 3-15a.)	B
	1	1021963/101	Handle Assembly, Control, Side Stance, ThermaKit (See Figure 3-16a.)	C
7	1	1019259	Bracket, Control Handle Post, Side Stance	

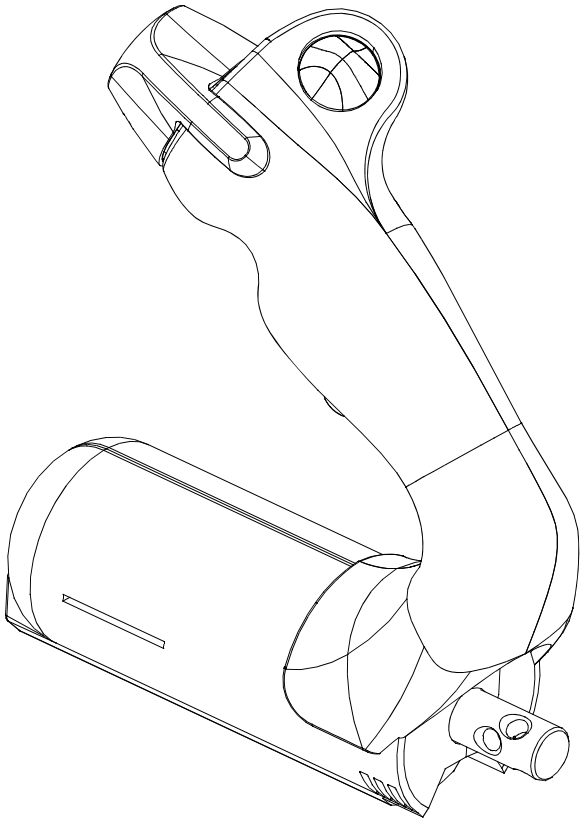
A= Standard
B= Cold Storage
C= ThermaKit

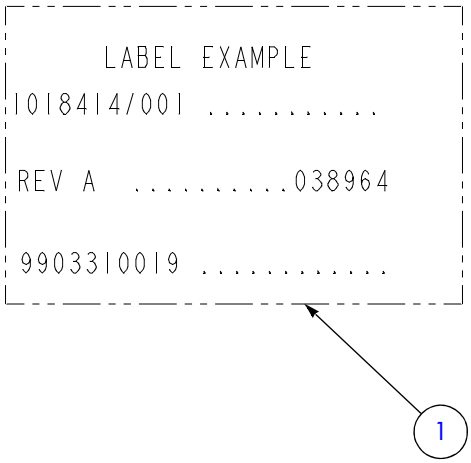
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Control Handle Assembly, Side Stance

Figure 3-15a: Control Handle Assembly, Side Stance





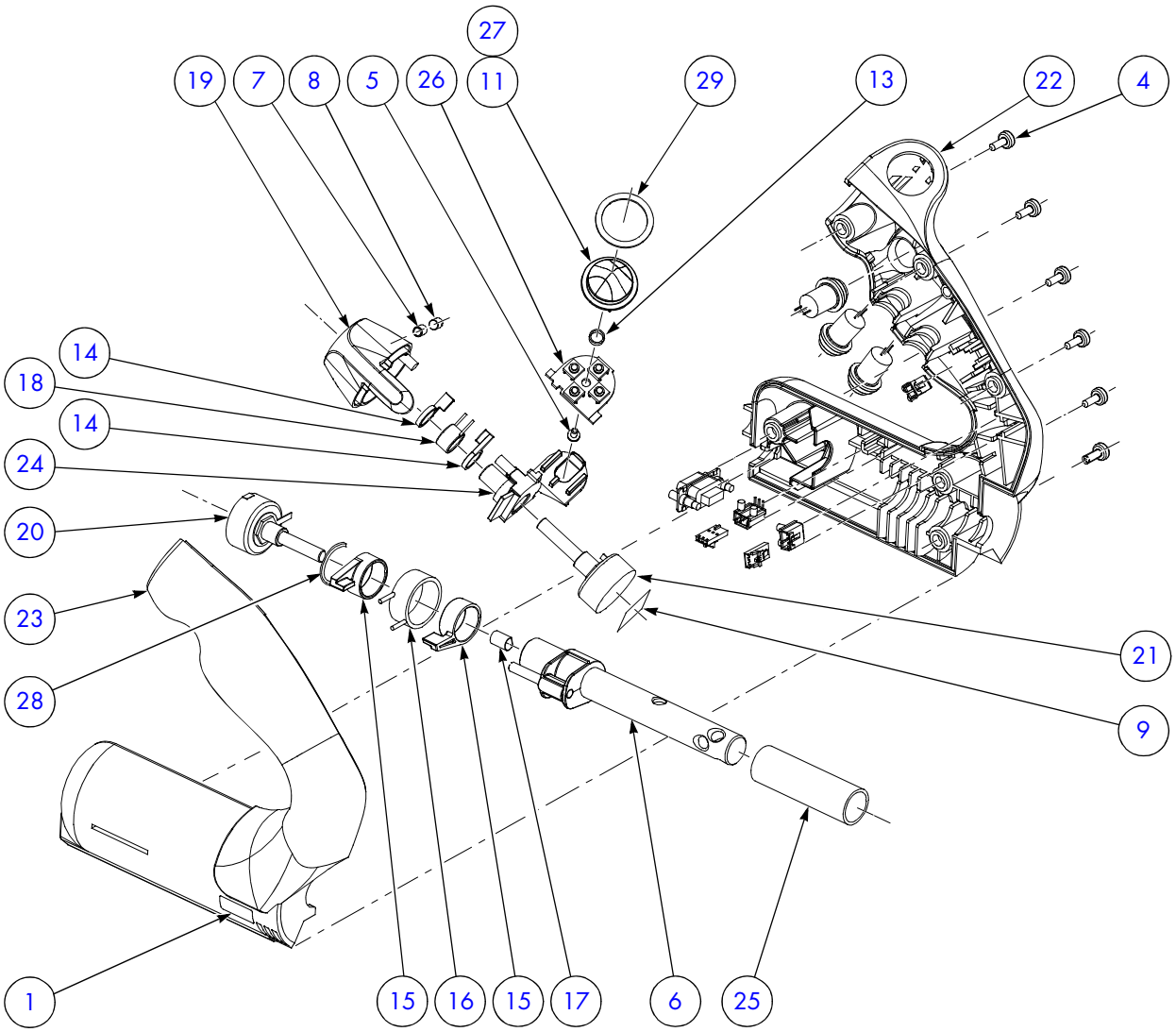


R1018414_102_D1, R1018414_102_D2, R1018414_102_D5 SHT 1 OF 3

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Control Handle Assembly, Side Stance

Figure 3-15b: Control Handle Assembly, Side Stance

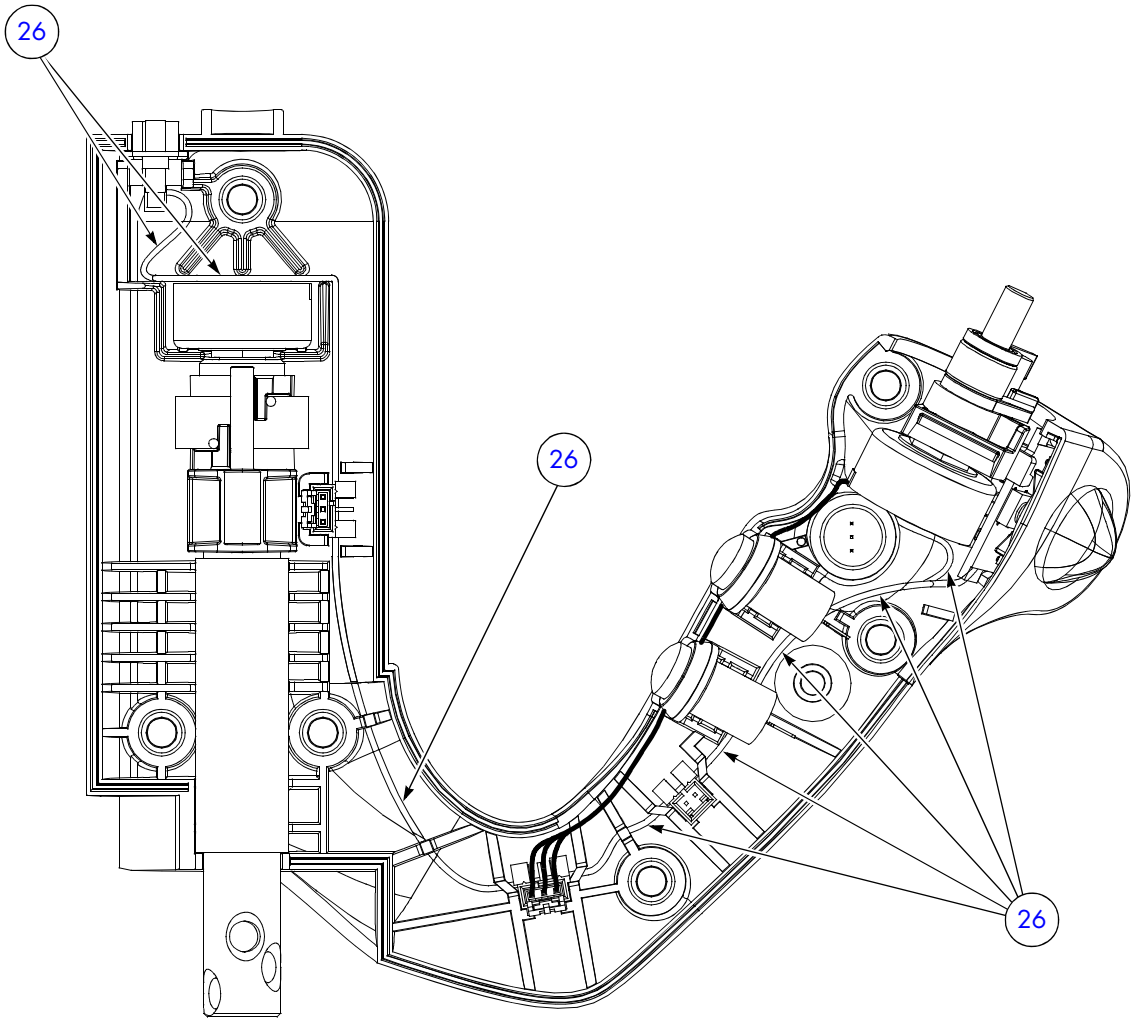


R1018414_2 OF 3

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Control Handle Assembly, Side Stance

Figure 3-15c: Control Handle Assembly, Side Stance



VIEW B-B

R1018414_102_D6 SHT 3 OF 3

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List 3-15: Control Handle Assembly, Side Stance

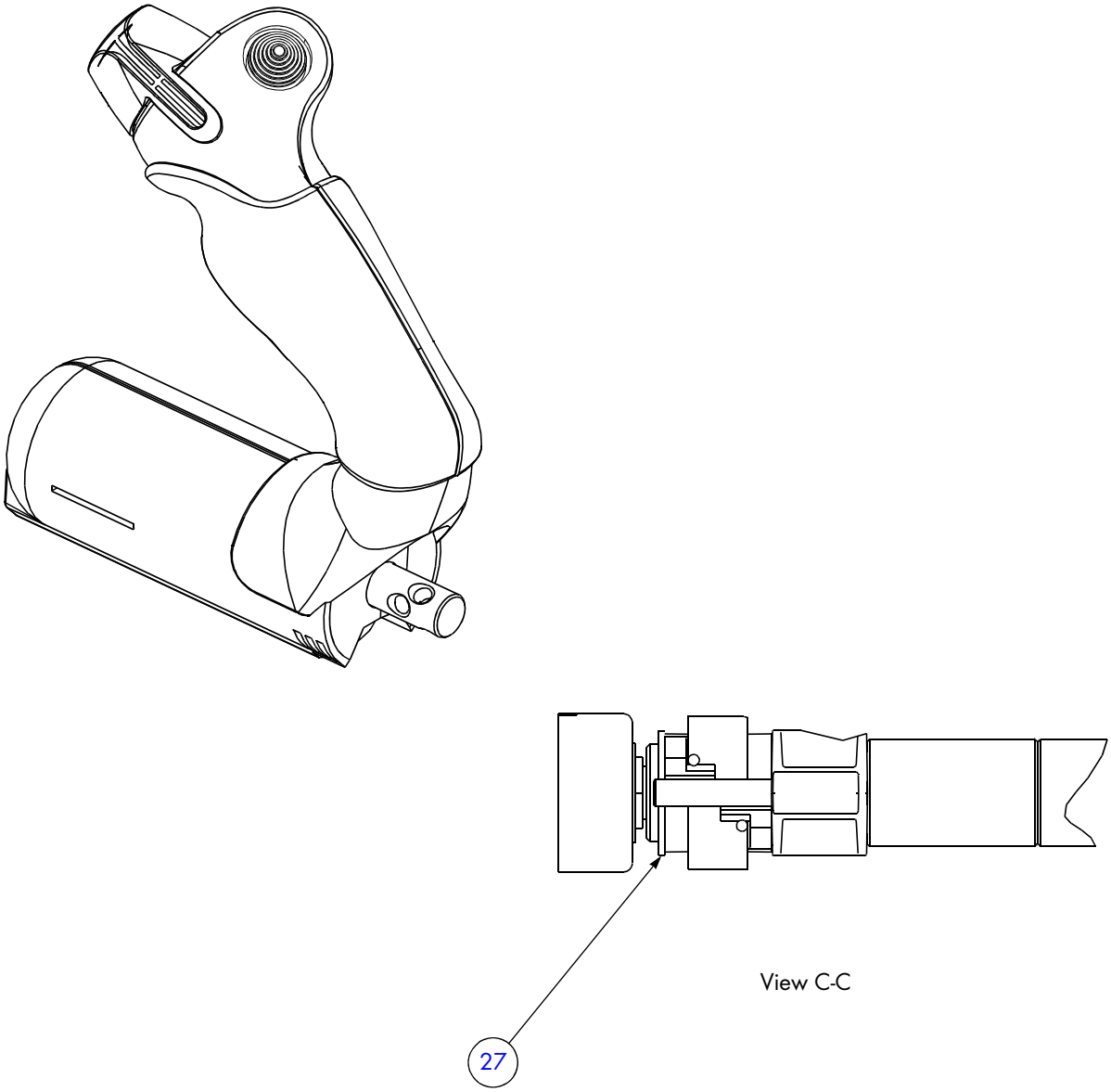
FIGURE 3-15 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1018414/102	Handle Assembly, Control, Side Stance	A
	1	1018414/104	Handle Assembly, Control, Side Stance, Cold Storage	B
1	1	411-421/002	Decal, Label	
4	6	5-002-042	Screw	
5	1	5-010-004	Screw	
6	1	1012040	Shaft Assembly, Pivot	
7	1	1033161	Screw, Set	
8	1	1012268	Screw, Slotted	
9	2	1023654	Tape, Double-faced	
10	1	1032083	Harness, Control Handle, Side Stance (Not Shown)	
11	1	1063941	Button, 4-Way	A
13	1	1086953/001	Spring, Compression	R
14	2	1014996	Arm, Pivot	
15	2	1052977	Retainer, Handle	
16	1	1015005	Spring, Torsion, Travel Potentiometer	R
17	1	1015006/001	Connector, D-Clip	
18	1	1015196	Spring, Torsion, Lift Potentiometer	R
19	1	1033021/002	Knob Assembly, Lift/Lower	
20	1	1017546/001	Resistor, Variable, Travel Potentiometer (VR1), Side Stance	R
21	1	1017546/003	Resistor, Variable, Lift Potentiometer (VR2), Side Stance	R
22	1	1050452	Shell, Handle, Right-Hand, Side Stance	
23	1	1050688	Shell, Handle, Left-Hand, Side Stance	
24	1	1095026	Bracket, Lift Potentiometer, Side Stance	
25	2	1052043	Bearing, Sleeve, Control Handle, Side Stance	R
26	1	1024359/002	Card Assembly, Circuit, Control Handle, Side Stance	C, R
27	1	1063940	Button, 4-Way	B
28	1	810-215	Ring, Snap, External	
29	1	1029121	O-Ring	R

A= Standard
B= Cold Storage
C= No repair parts below this level.
R= Recommended Spare

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Control Handle Assembly, Side Stance, ThermaKit

Figure 3-16a: Control Handle Assembly, Side Stance, ThermaKit

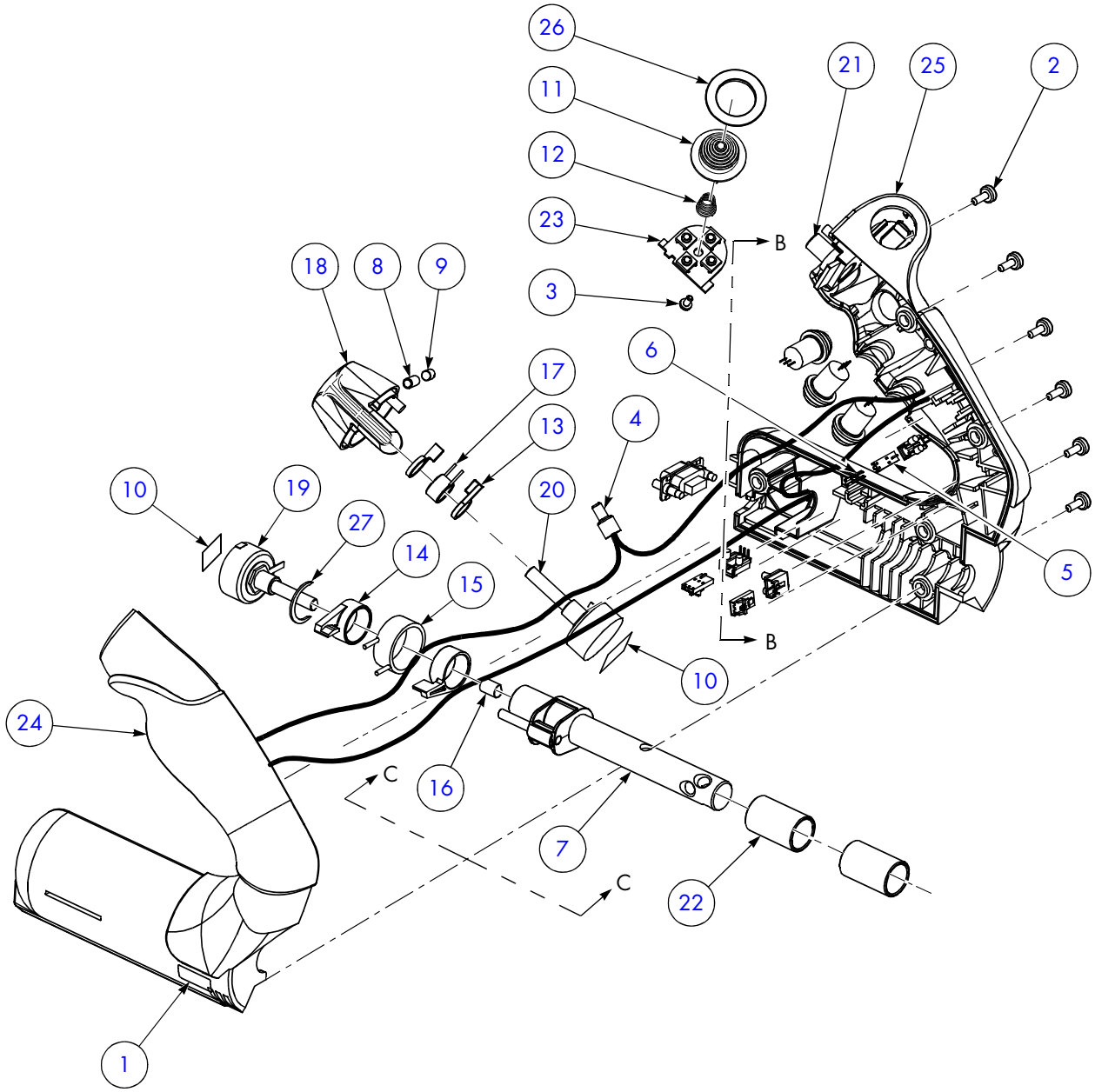


1021963_M1, 1021963_M1 SHT 1 OF 3

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Control Handle Assembly, Side Stance, ThermaKit

Figure 3-16b: Control Handle Assembly, Side Stance, ThermaKit

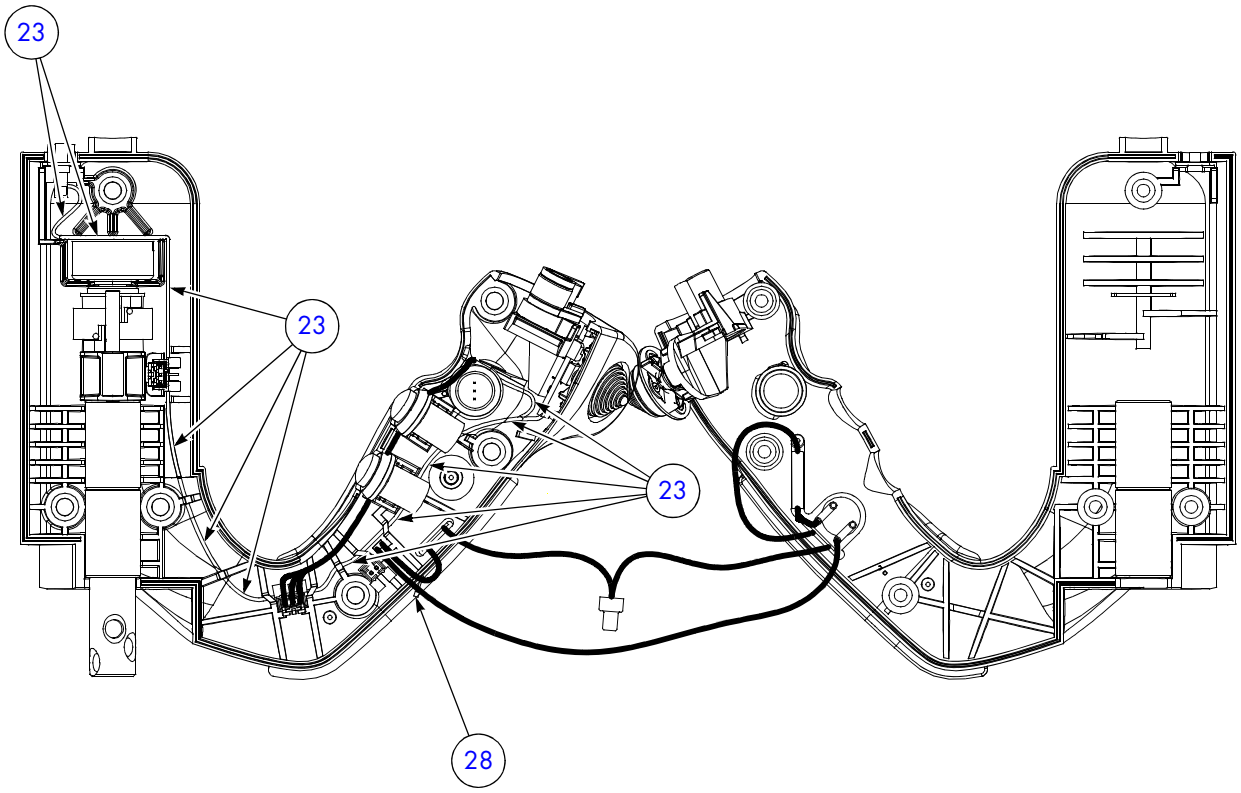


1021963_M2 SHT 2 OF 3

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Control Handle Assembly, Side Stance, ThermaKit

Figure 3-16c: Control Handle Assembly, Side Stance, ThermaKit



View B-B

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List 3-16: Control Handle Assembly, Side Stance, ThermaKit

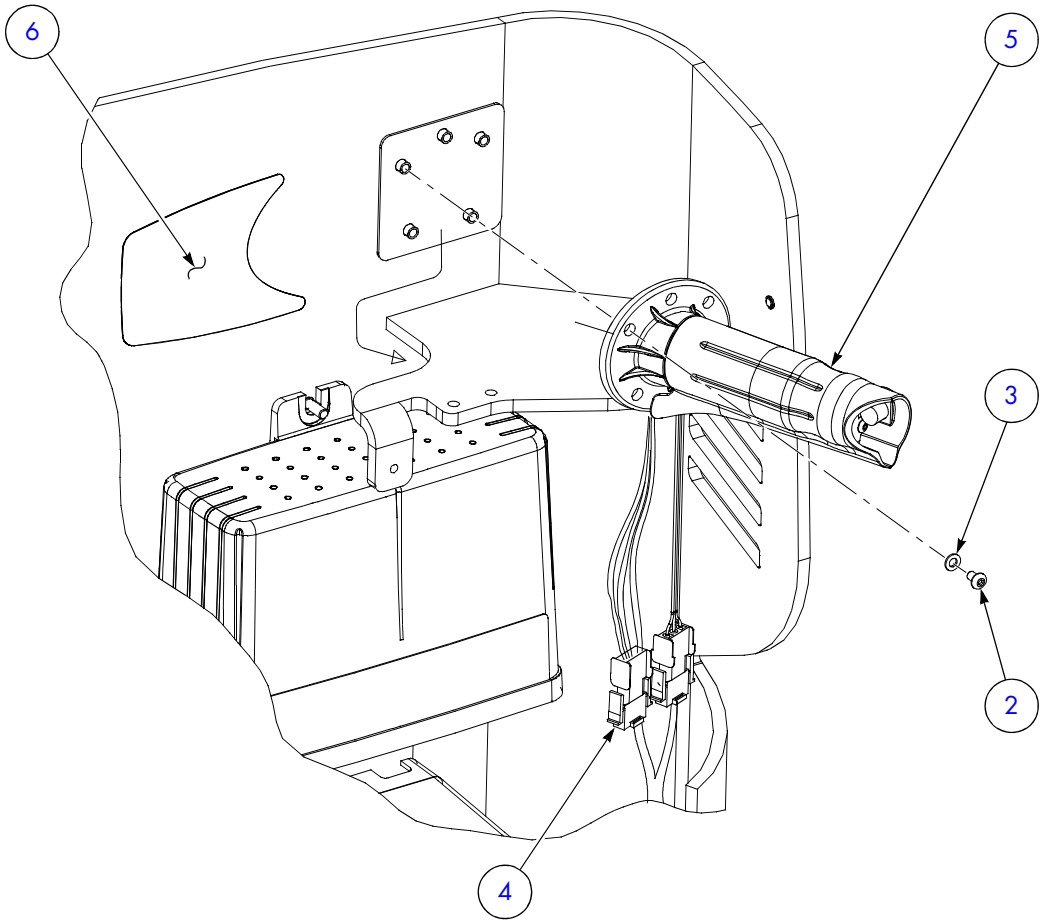
FIGURE 3-16 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1021963/101	Handle Assembly, Control, Side Stance, ThermaKit	
1	1	411-421/002	Decal, Label	
2	6	5-002-042	Screw	
3	1	5-010-004	Screw	
4	1	1-010-013/002	Terminal	
5	1	1011392/001	Housing, Connector	
6	2	1011393/001	Contact, Socket	
7	1	1012040	Shaft Assembly, Pivot	
8	1	1033161	Screw	
9	1	1012268	Screw, Set	
10	1	1023654	Tape, Double-faced	
11	1	1063940	Button, 4-Way	
12	1	1086953/001	Spring, Compression	R
13	2	1014996	Arm, Pivot	
14	2	1052977	Retainer, Handle	
15	1	1015005	Spring, Torsion, Travel Potentiometer	R
16	1	1015006/001	Connector, D-Clip	
17	1	1015196	Spring, Torsion, Lift Potentiometer	R
18	1	1033021/002	Knob Assembly, Lift/Lower	
19	1	1017546/001	Resistor, Variable, Travel Potentiometer (VR1)	R
20	1	1017546/003	Resistor, Variable, Lift Potentiometer (VR2)	R
21	1	1095026	Bracket, Pot Assembly	
22	2	1052043	Bearing, Sleeve, Control Handle, Side Stance	R
23	1	1024359/002	Card Assembly, Circuit, Control Handle, Side Stance	A, R
24	1	1022008	Handle, Left-Hand, ThermaKit	
25	1	1022009	Handle, Right-Hand, ThermaKit	
26	1	1029121	O-Ring	R
27	1	810-215	Ring, Snap, External	
28	1	611-029	Cable Tie	

A= No repair parts below this level
R= Recommended Spare

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Control Handle Installation, Fore-Aft, Secondary

Figure 3-17: Control Handle Installation, Fore-Aft, Secondary



R1017844_B

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List 3-17: Control Handle Installation, Fore-Aft, Secondary

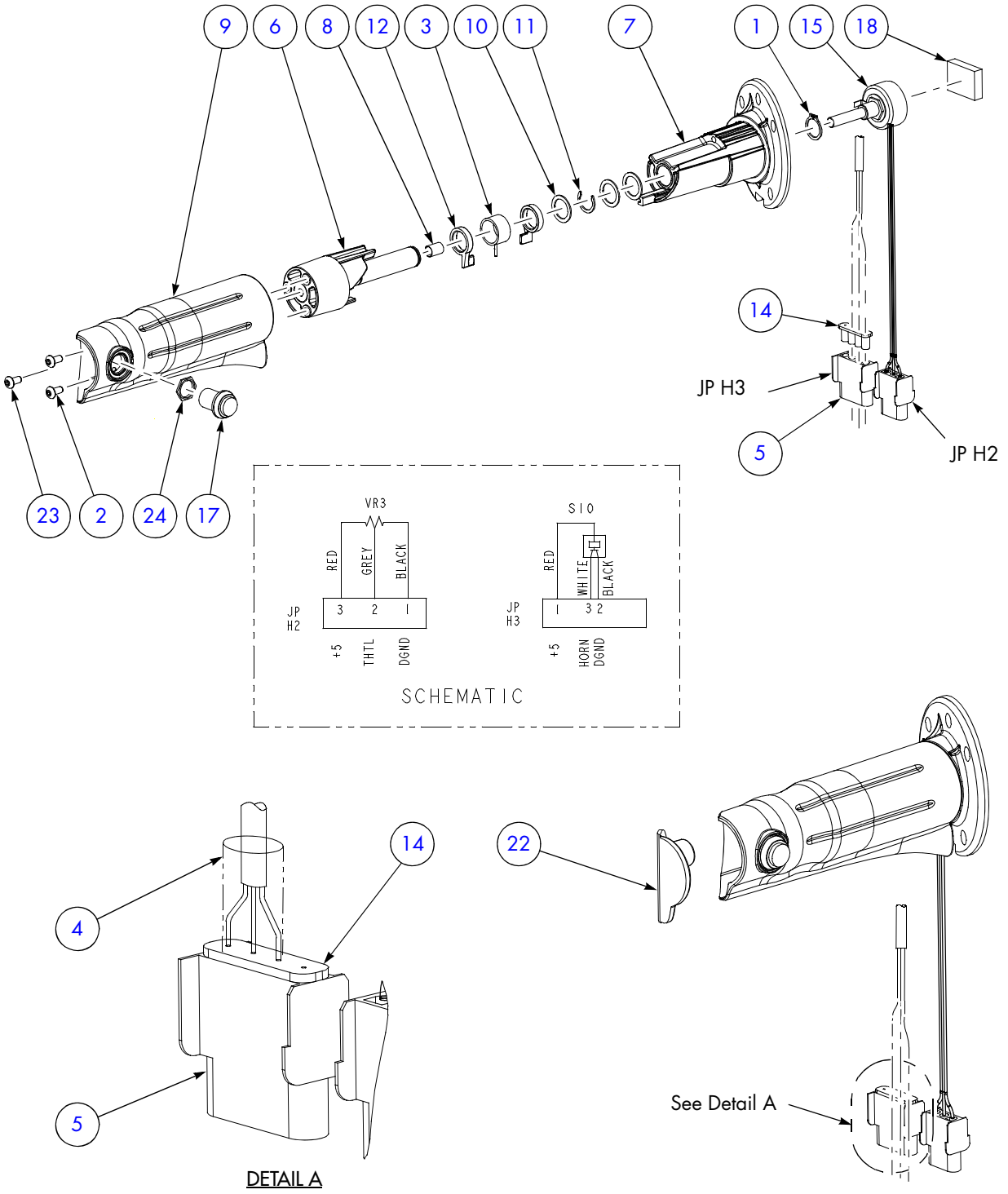
FIGURE 3-17 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	5	5-003-032	Screw	
3	5	5-018-004	Washer, Flat	
4	1	1017589	Harness, Control Handle, Fore-Aft Stance, Secondary	
5	1	1017843/001	Handle Assembly, Control, Secondary, Fore-Aft Stance (See Figure 3-18.)	
	1	1024122/001	Handle Assembly, Control, Secondary, ThermaKit, Fore-Aft Stance (See Figure 3-19a.)	A
6	1	1016218	Decal, Control Handle, Secondary	

A= ThermaKit

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Control Handle Assembly, Fore-Aft, Secondary

Figure 3-18: Control Handle Assembly, Fore-Aft, Secondary



R1017843_E1, R1017843_E2A, R1017843_E3, R1017843_E4

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List 3-18: Control Handle Assembly, Fore-Aft, Secondary

FIGURE 3-18 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1017843/001	Handle Assembly, Control, Fore-Aft Stance, Secondary	
1	1	810-118	Ring, Retaining	
2	3	5-003-003	Screw	
3	1	1018263	Spring, Torsion, Travel Potentiometer	R
4	1	611-025	Insulator, Tubing	
5	1	1-012-070/02	Connector, Cap	
6	1	1012726	Shaft Assembly, Control Handle	
7	1	1012824	Shell, Handle, Secondary Handle	
8	1	1015006/001	Connector, D-Clip	
9	1	1017053	Grip, Handle, Secondary Handle	
10	3	1040106	Washer	
11	1	1017662	Ring, Retaining	
12	2	1017813	Arm, Paddle	
14	1	1-012-500/004	Seal, Connector	R
15	1	1017841/001	Resistor, Variable, Travel Potentiometer (VR3)	R
17	1	1020056	Switch, Pushbutton, Horn, Secondary	R
18	1	370-631/006	Pad, Side, Left-Hand	
22	1	1025587	Plug, Cavity, Secondary Control Handle	
23	1	5-003-004	Screw	
24	1	810-117	Ring, Retaining	

R= Recommended Spare

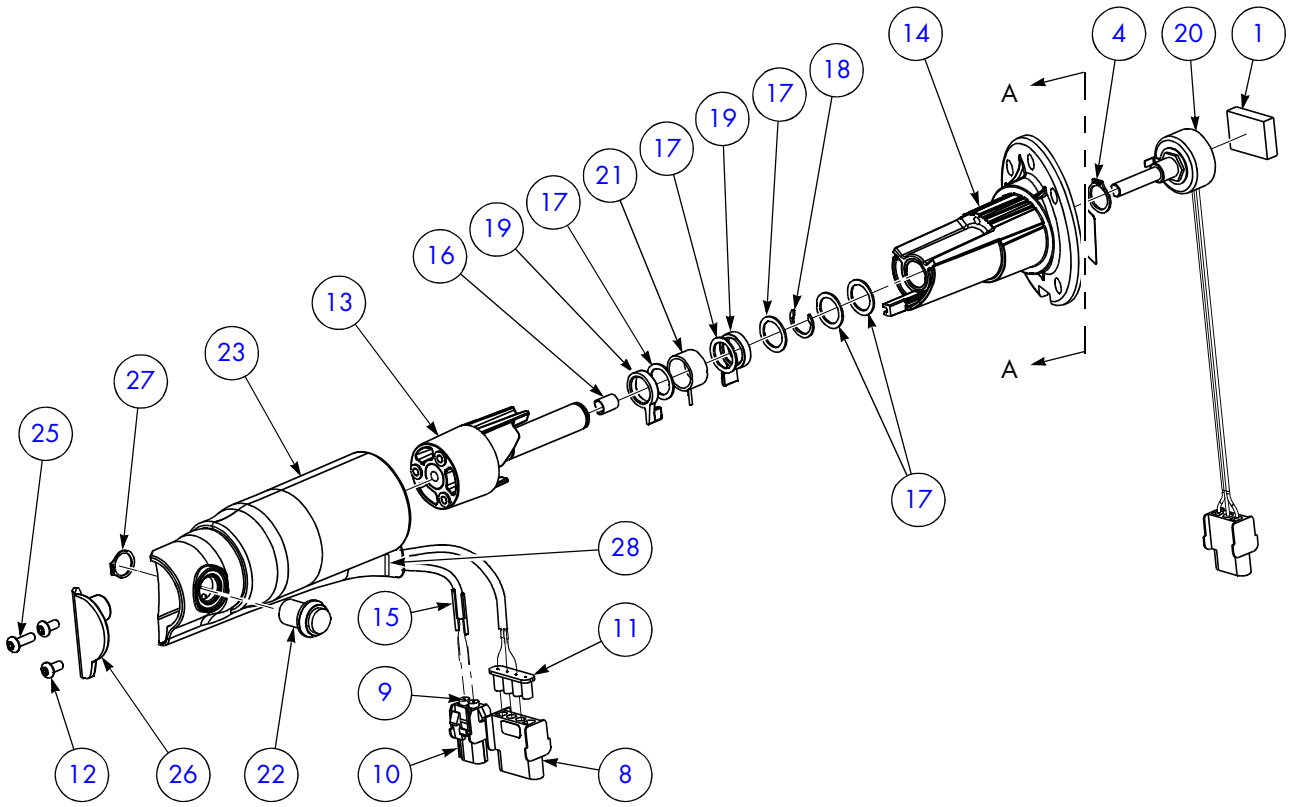
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Control Handle Assembly, Secondary, Fore Aft Stance, ThermaKit

Figure 3-19a: Control Handle Assembly, Secondary, Fore Aft Stance, ThermaKit

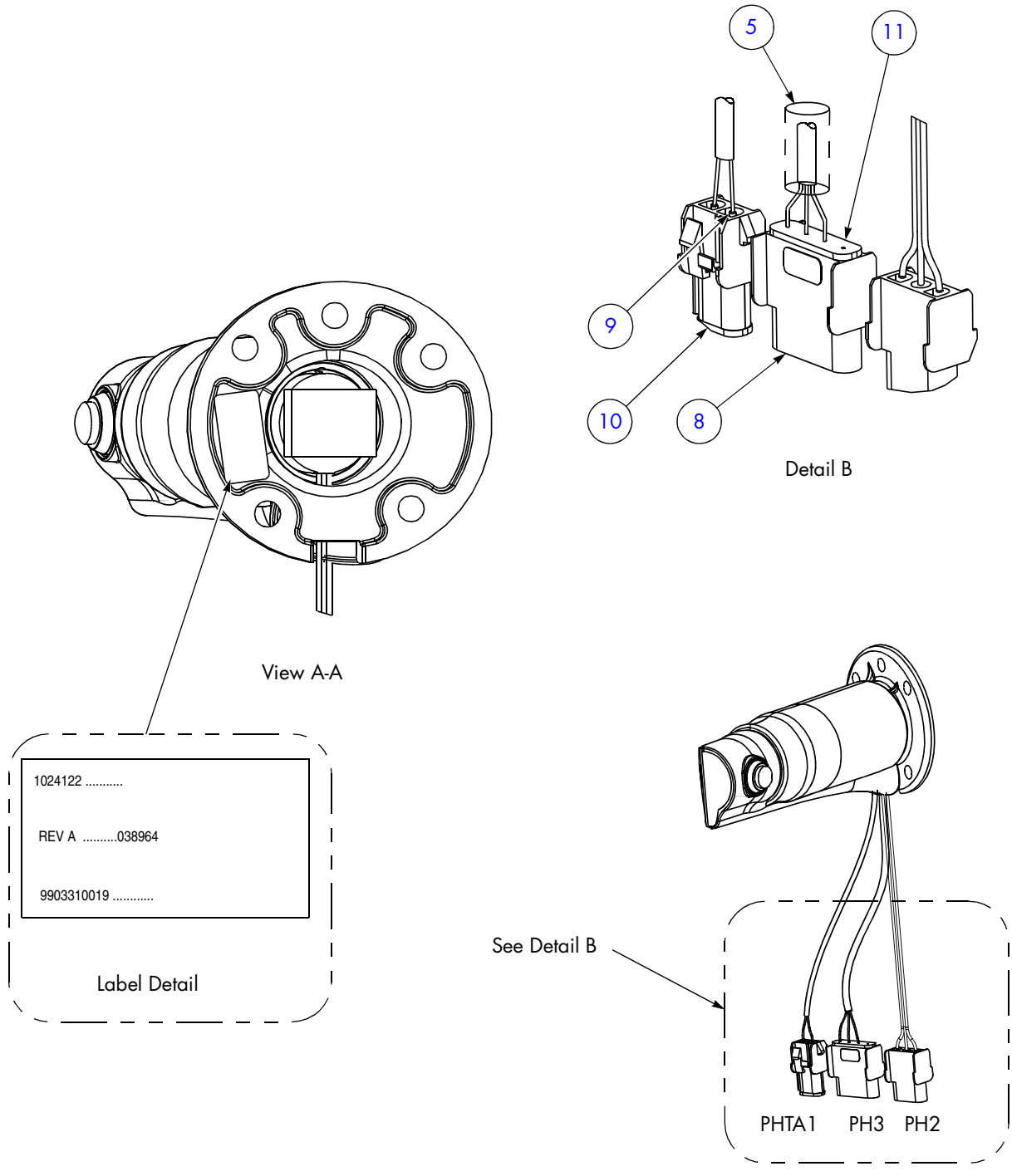


1024122_E1 SHT 1 OF 2

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Control Handle Assembly, Secondary, Fore Aft Stance, ThermaKit

Figure 3-19b: Control Handle Assembly, Secondary, Fore Aft Stance, ThermaKit



1024122_E2, 1024122_E3, 1024122_E4, 1024122_E5 SHT 2 OF 2

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List 3-19: Control Handle Assembly, Secondary, Fore Aft Stance, ThermaKit

FIGURE 3-19 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	370-631/006	Pad, Side, Left-Hand	
4	1	810-118	Ring, Retaining	
5	1	611-025	Insulator, Tubing	
8	1	1-012-070/002	Connector, Electrical	
9	1	1-012-070/004	Connector, Electrical	
10	1	1-012-500/02	Seal, Connector	R
11	1	1-012-500/04	Seal, Connector	R
12	5	5-003-003	Screw	
13	1	1012726	Shaft Assembly, Control Handle	
14	1	1012824	Shell, Handle, Secondary Handle	
15	2	1014281/003	Pin, Contact	
16	1	1015006/001	Connector, Mechanical, D Clip	
17	5	1040106	Washer, Nylon	
18	1	1017662	Ring, Retaining, Crescent	
19	2	1017813	Arm, Paddle	
20	1	1017841/001	Resistor, Variable, Travel Potentiometer (VR3)	R
21	1	1018263	Spring, Torsion, Travel Potentiometer	R
22	1	1020056	Switch, Pushbutton, Horn, Secondary	R
23	1	1024121	Handle, Secondary, ThermaKit	
25	1	5-003-004	Screw	
26	1	1025587	Plug, Cavity, Secondary Control Handle	
27	1	810-117	Ring, Retaining	
28	1	611-029	Cable Tie	

R= Recommended Spare

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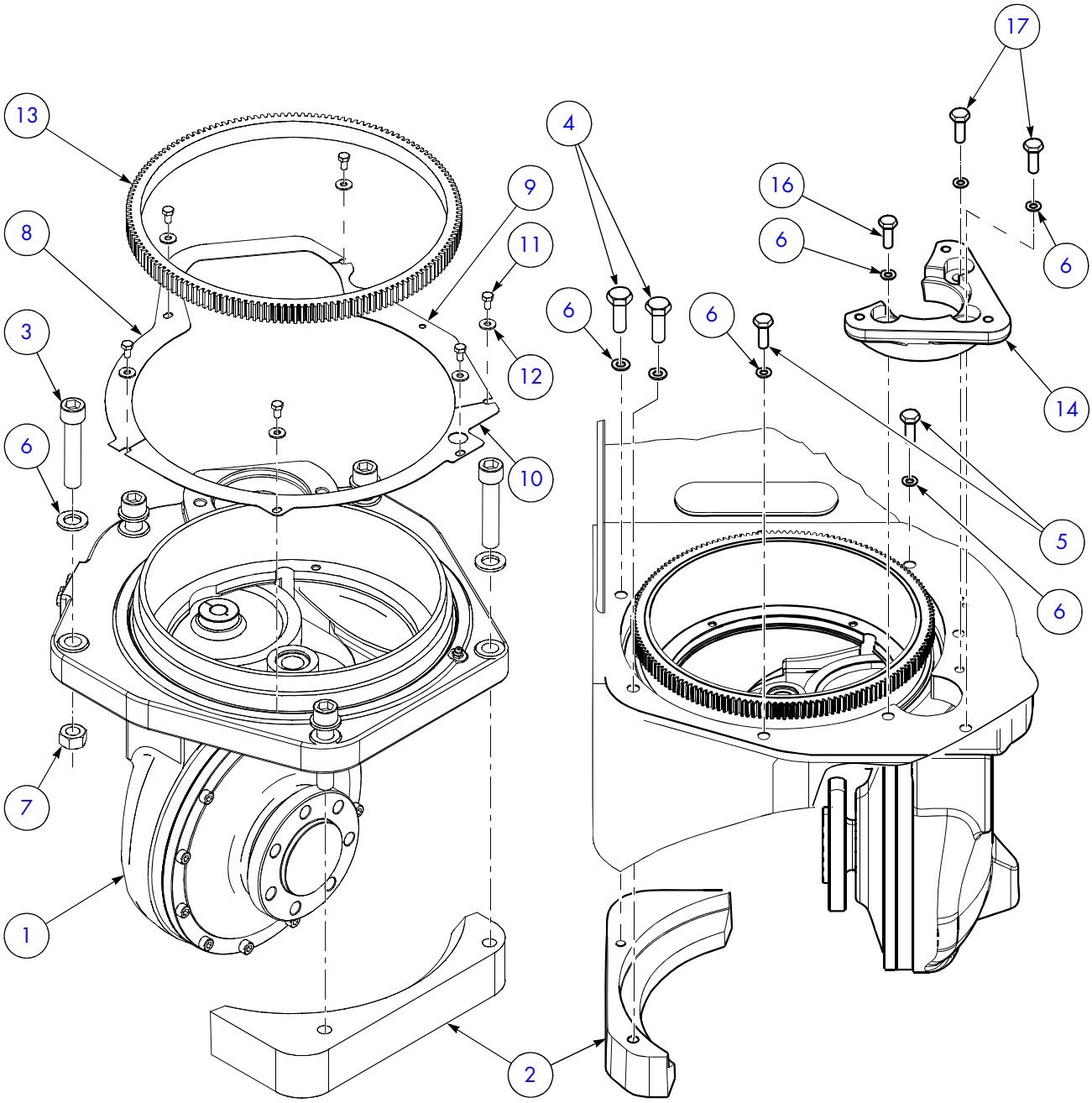
SECTION 4 Drive and Brake

Drive Unit Installation 4-2
Drive Motor Installation 4-4
Drive Unit Assembly 4-6
Electric Brake Installation 4-10
Electric Brake Assembly 4-12
Deadman Pedal Installation, Fore-Aft 4-14
Deadman Pedal Assembly, Fore-Aft 4-17
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Drive Wheel Installation 4-26
Inertial Dampener Assembly 4-28

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Drive Unit Installation

Figure 4-1: Drive Unit Installation



Models 7400 and 7420 Model 7440

R1008454_D, 1071286_A

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List 4-1: Drive Unit Installation

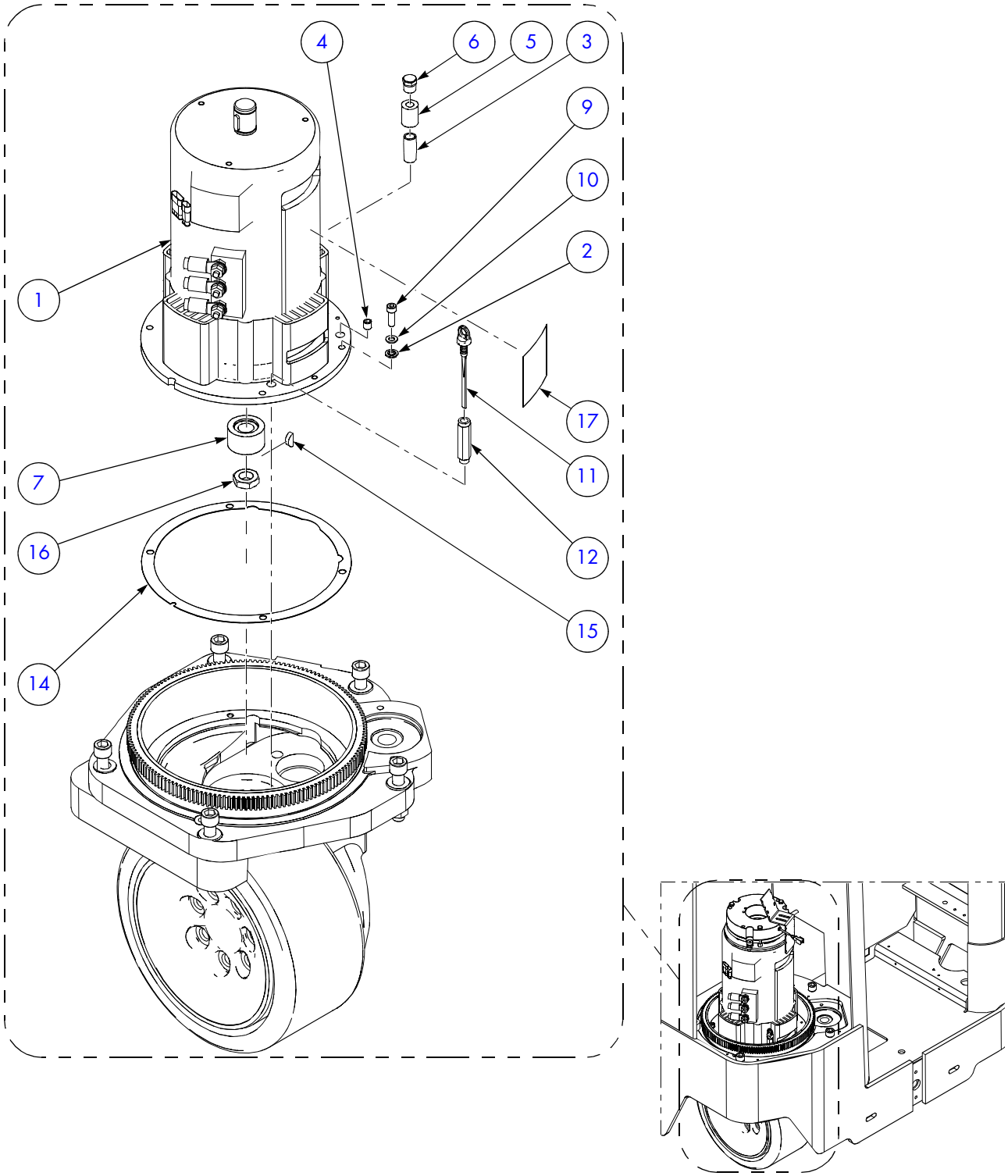
FIGURE 4-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Drive Unit Assembly (See Figure 4-3.)	
2	1	1077916	Stop, Steering	A
	1	1046229	Stop, Steering	B
3	5	7-714-016/080	Screw	A
4	2	5-001-028	Screw	B
5	4	5-001-039	Screw	B
6	8	5-018-009	Washer, Flat	A
	9	5-018-008	Washer, Flat	B
7	3	5-015-008	Nut	A
8	1	1017596	Plate, Cover	A
9	1	1017597	Plate, Cover	A
10	1	1009384	Cover, Dust, Left-Hand	A
11	6	5-001-001	Screw	A
12	6	7-771-206	Washer, Flat	A
13	1	Ref.	Gear, Spur, Drive Unit (See Item 26, Figure 4-3.)	
14	1	1070608	Block, Steer Motor	B
15	1	1090061	Ring, Nilos (Not Shown)	B
16	1	5-001-059	Screw	B
17	2	5-001-026	Screw	B

A= Model 7400 and 7420
B= Model 7440 Only

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Drive Motor Installation

Figure 4-2: Drive Motor Installation



R1008453_C2, R1008453_C1

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List 4-2: Drive Motor Installation

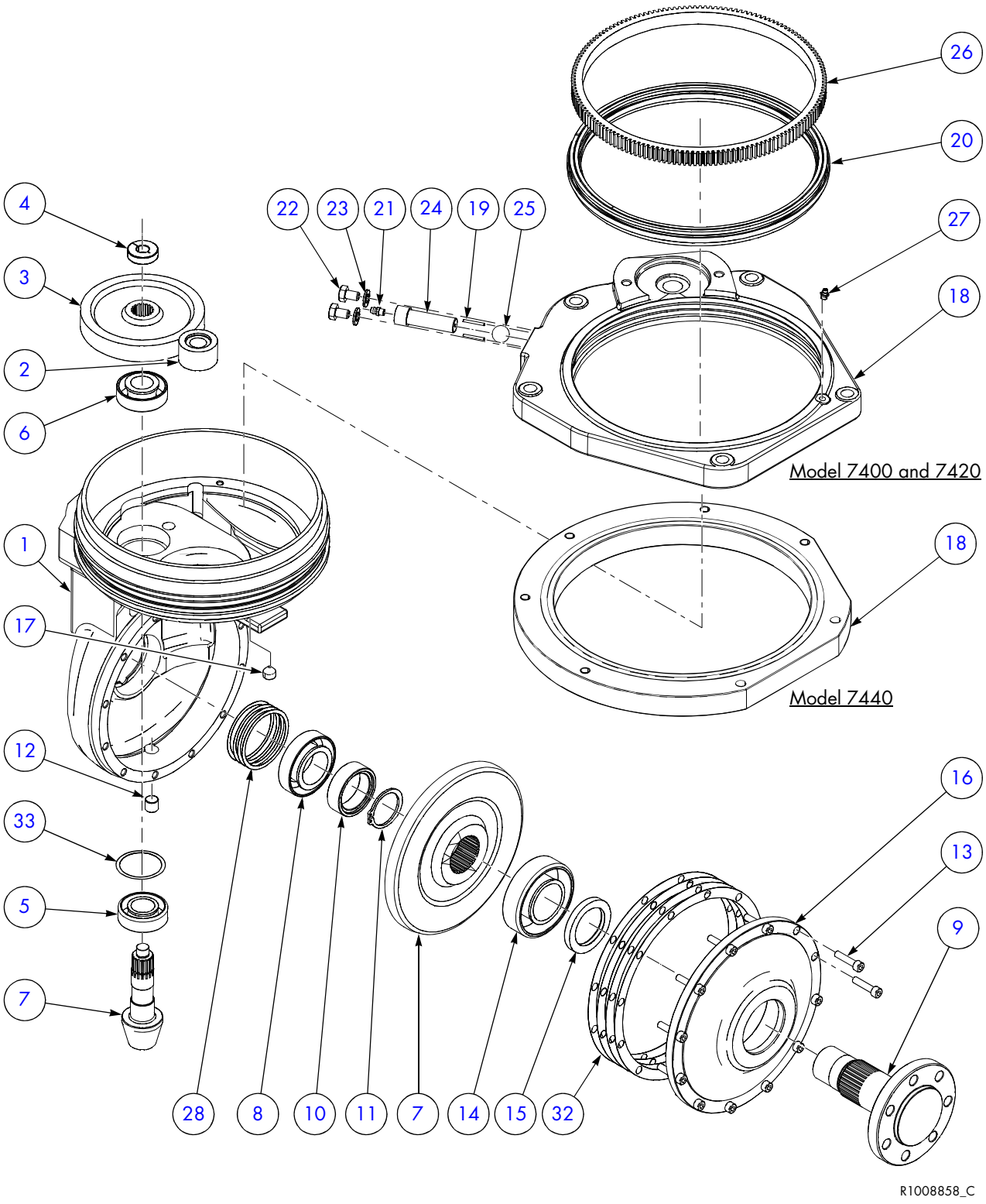
FIGURE 4-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1029753/600	Motor, Drive, AC (Danaher TSW)	A
	1	1038442/700	Motor, Drive, AC, UL Class E (Sauer Danfoss)	B
	1	1029754/600	Motor, Drive, AC, UL Class EE (Danaher TSW)	C
2	4	776-229	Washer, Seal	
3	1	780-040	Tube, Filler, Drive Unit Gear Case	
4	1	782-420	Coupling, Filler Tube, Drive Unit Gear Case	
5	1	780-503	Coupling, Filler Tube, Drive Unit	
6	1	782-425	Plug, Filler, Drive Unit Gear Case	
7	1	401-175	Gear, Pinion, Drive Motor	
9	4	5-002-008	Screw	
10	4	5-018-006	Washer, Flat	
11	1	828-013-052	Cover, Dipstick	
12	1	828-006-440	Plug, Dipstick	
14	1	828-013-978	Gasket, Drive Unit	
15	1	5-026-005	Key, Woodruff	
16	1	7-750-920	Nut	
17	1	114-009-503	Plate, Specification, Motor	

A= Model 7400 (Danaher TSW Motor)
B= Models 7420 and 7400 (Sauer Danfoss Motor)
C= Model 7400 EE (Danaher TSW Motor)

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Drive Unit Assembly

Figure 4-3: Drive Unit Assembly



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List 4-3: Drive Unit Assembly (Sheet 1 of 2)

FIGURE 4-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1008858	Gear Reducer, Drive Unit	A
	1	1045026	Gear Reducer, Drive Unit	B
1	1	1008746	Housing, Drive Unit	A
	1	1044141	Housing, Drive Unit	B
2	1	401-175	Gear, Pinion, Drive Unit	
3	1	410-029/06	Gear, Helical, Drive Unit	
4	1	1020548/001	Nut, Clamp	
5	1	1008747	Bearing Set, Drive Unit	R
6	1	447-593	Bearing Set, Drive Unit	R
7	1	1010491	Gear and Pinion Set, Drive Unit	
8	1	447-591/100	Bearing Set, Drive Unit	R
9	1	410-022/06	Shaft, Flanged Output, Drive	
10	1	410-022/05	Spacer, Drive Unit Output Bearing	
11	1	410-022/11	Ring, Retaining	
12	1	782-426	Plug, Pipe	
13	12	5-002-009	Screw	
14	1	447-592/100	Bearing Set, Drive Unit	R
15	1	410-022/18	Seal, Lip	R
16	1	1014647	Cover, Drive Unit Gear Reducer	
17	1	5-006-024	Screw, Set	
18	1	1008753	Ring, Pivot	A
	1	1044241	Bearing, Slewing	B
19	2	810-717	Pin, Spiral	A
20	1	1030934	Kit, Ring Set	A, R
21	1	840-030	Fitting, Grease	A
22	2	5-001-006	Screw	A
23	2	5-018-006	Washer, Flat	A
24	1	1035670/002	Plug, Bearing Filler	A
25	70	850-017	Bearing, Ball	A, R
26	1	400-149	Gear, Spur, Drive Unit	
27	1	840-059	Fitting, Grease	A
28	AR	828-006-866/002	Shim, Cover (3.21 in. OD, 0.002 in. Thick)	
	AR	828-006-866/003	Shim, Cover (3.21 in. OD, 0.003 in. Thick)	
	AR	828-006-866/007	Shim, Cover (3.21 in. OD, 0.007 in. Thick)	
	AR	828-006-866/015	Shim, Cover (3.21 in. OD, 0.015 in. Thick)	
32	AR	828-006-867/002	Shim, Cover (0.002 in. Thick)	
	AR	828-006-867/003	Shim, Cover (0.003 in. Thick)	
	AR	828-006-867/007	Shim, Cover (0.007 in. Thick)	
	AR	828-006-867/015	Shim, Cover (0.015 in. Thick)	
33	AR	1074497/001	Shim, Spacer (0.002 in. Thick)	
	AR	1074497/002	Shim, Spacer (0.003 in. Thick)	

A= Models 7400 and 7420
B= Model 7440
R= Recommended Spare

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List 4-3: Drive Unit Assembly (Sheet 2 of 2)

FIGURE 4-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	AR	1074497/003	Shim, Spacer (0.008 in. Thick)	
	AR	1074497/004	Shim, Spacer (0.012 in. Thick)	
	AR	1074497/005	Shim, Spacer (0.015 in. Thick)	

A= Models 7400 and 7420
B= Model 7440
R= Recommended Spare

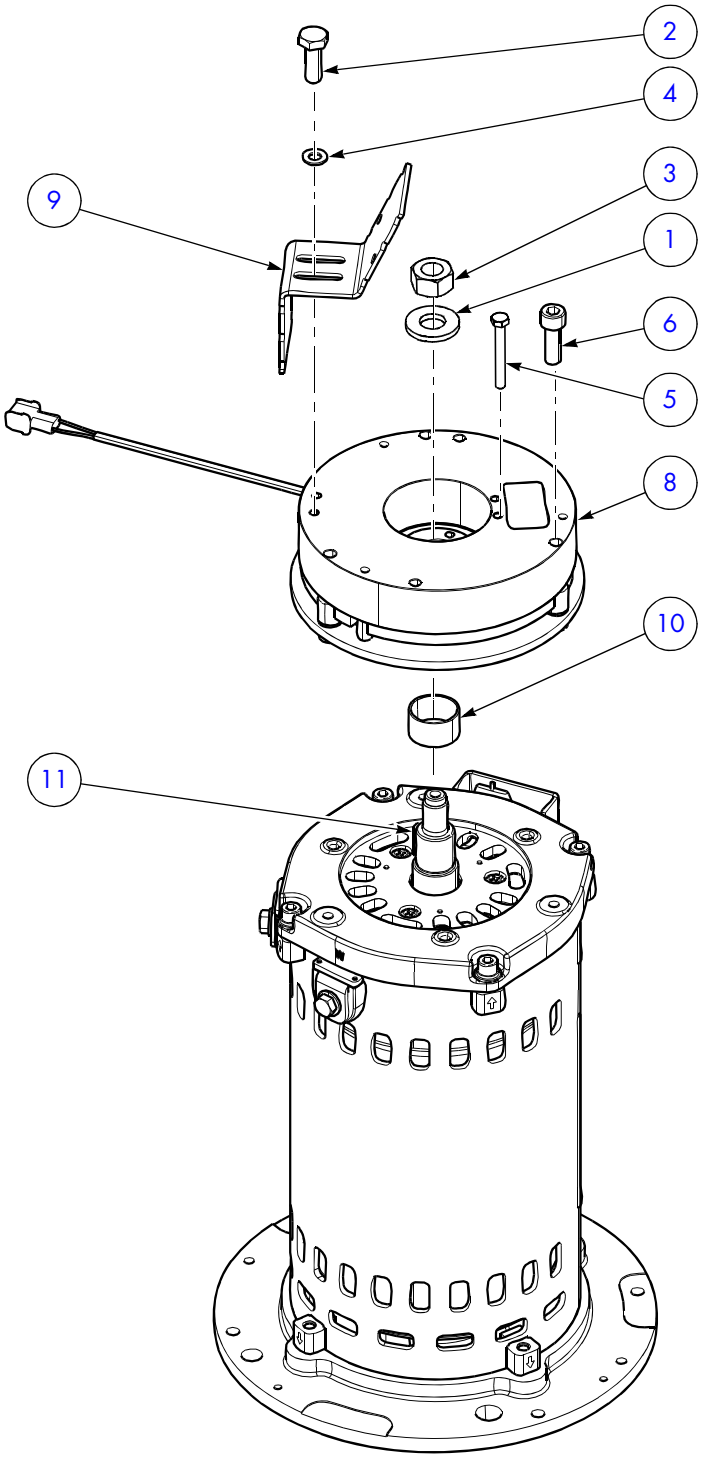
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Electric Brake Installation

Figure 4-4: Electric Brake Installation



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List 4-4: Electric Brake Installation

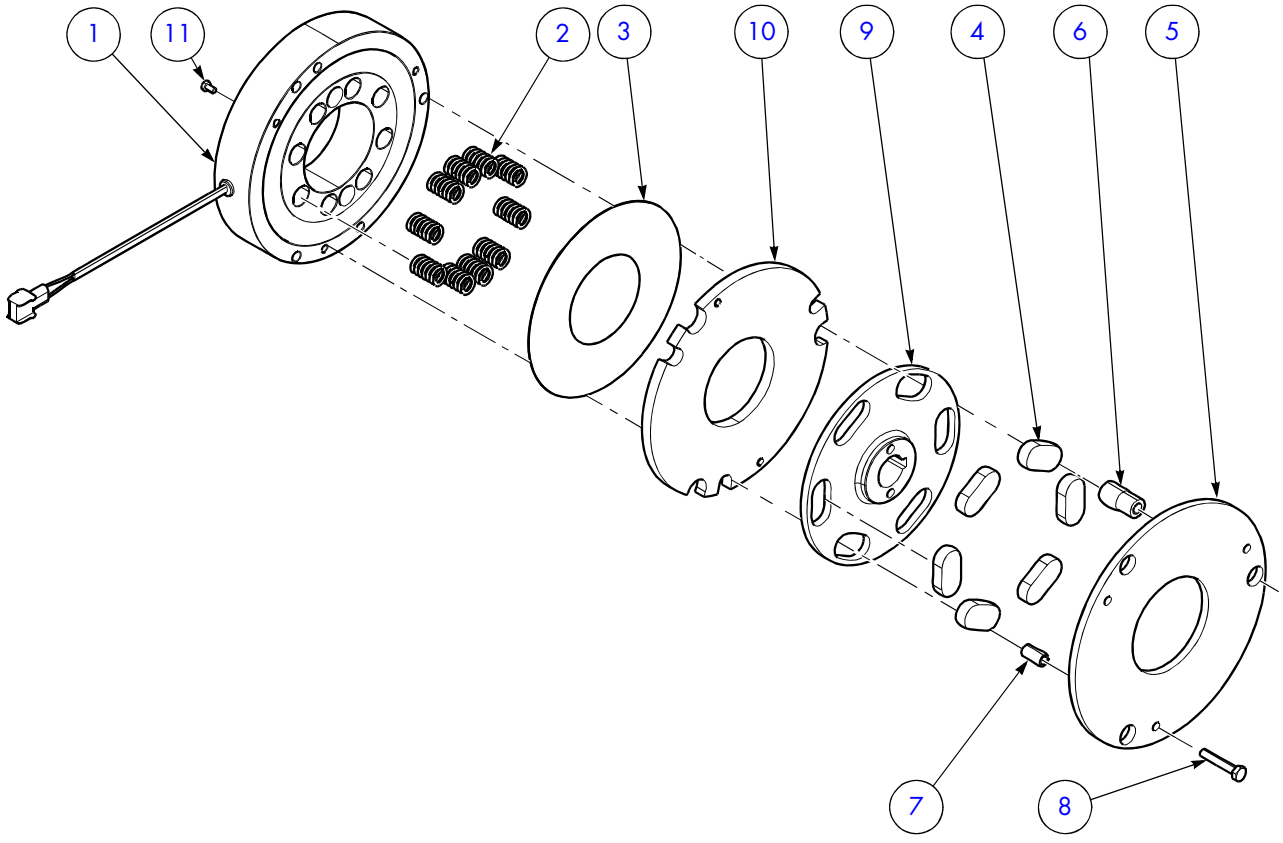
FIGURE 4-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	771-164/003	Washer, Flat	
2	2	5-001-001	Screw, Bracket Mounting	
3	1	5-015-008	Nut	
4	2	5-018-005	Washer, Flat	
5	2	7-710-006/050	Screw, Brake Release	
6	3	7-714-008/080	Screw	
8	1	1065061	Brake Assembly, Electric (See Figure 4-5.)	
9	1	1065063	Bracket, Motor Harness	
10	1	1070472	Sleeve, Spacer	A
11	1	5-026-005	Key, Woodruff	B

A= Model 7400 Only
B= Models 7420 and 7440

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Electric Brake Assembly

Figure 4-5: Electric Brake Assembly



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List 4-5: Electric Brake Assembly

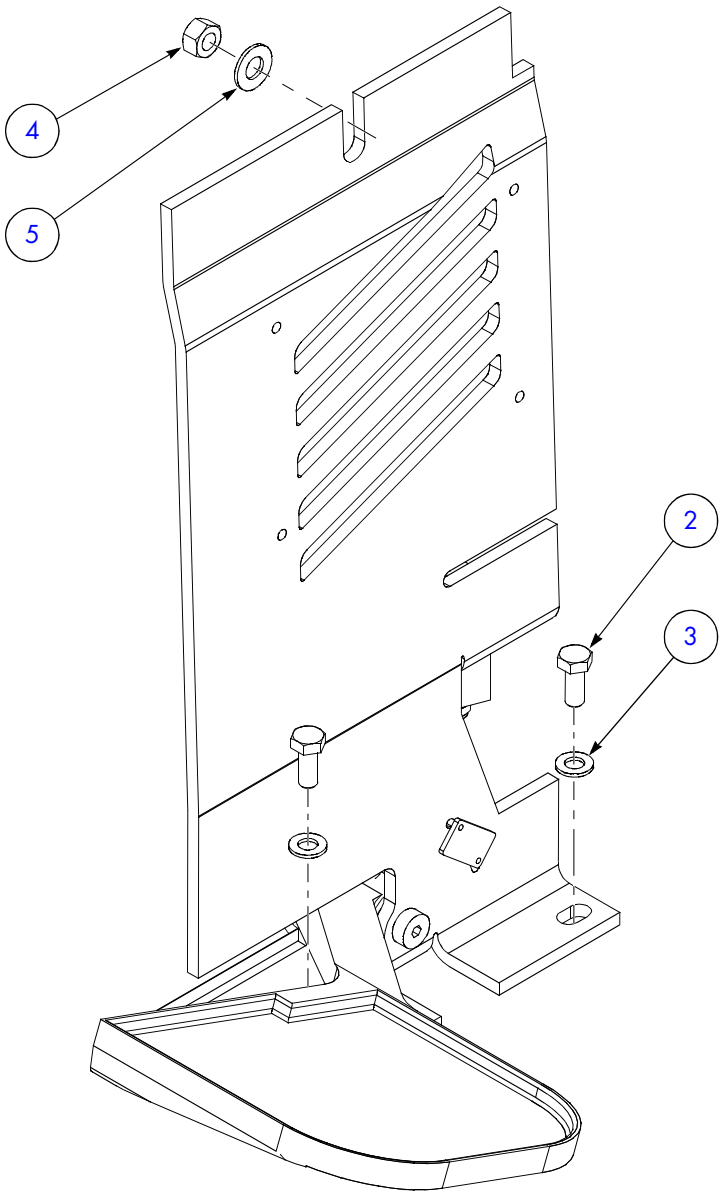
FIGURE 4-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1065061/01	Magnet Body Subassembly	
2	10	1065061/010	Spring, Compression	R
3	1	1065061/03	Shim, Disc	
4	6	1065061/011	Pad, Friction	R
5	1	1065061/07	Adaptor	
6	3	1065061/08	Standoff	
7	3	1065061/04	Spacer	
8	3	1065061/05	Screw	
9	1	1065061/09	Carrier, Friction	
10	1	1065061/02	Armature	
11	1	1065061/06	Screw, Release	

R= Recommended Spare

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Deadman Pedal Installation, Fore-Aft

Figure 4-6a: Deadman Pedal Installation, Fore-Aft

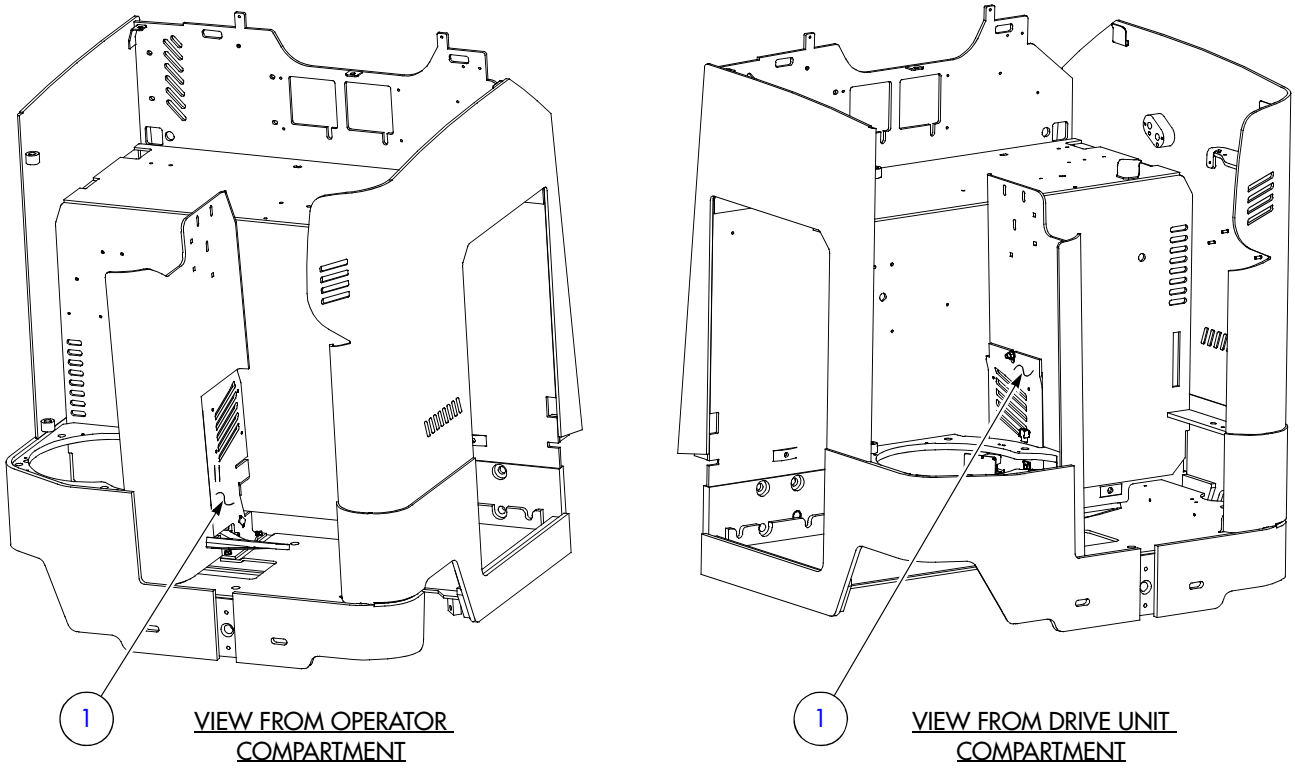


R1008451_A SHT 1 OF 2

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Deadman Pedal Installation, Fore-Aft

Figure 4-6b: Deadman Pedal Installation, Fore-Aft



R1008451_A1, R1008451_A2 SHT 2 OF 2

List 4-6: Deadman Pedal Installation, Fore-Aft

FIGURE 4-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Pedal Assembly, Deadman, Fore-Aft (See Figure 4-7a.)	A
2	2	5-001-008	Screw	
3	2	5-018-006	Washer, Flat	
4	1	750-020	Nut	
5	1	771-023	Washer, Flat	

A= Model 7400

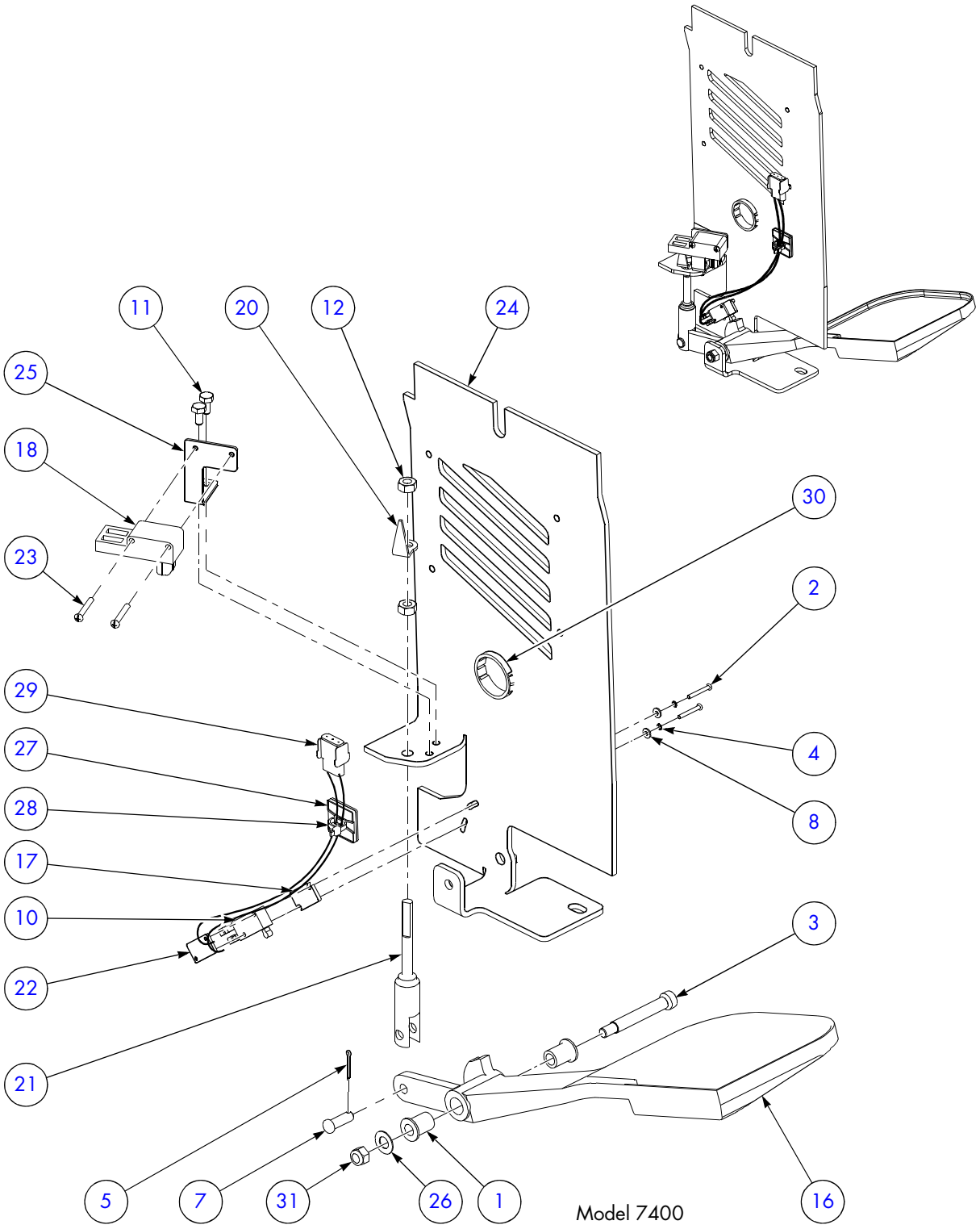
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Deadman Pedal Assembly, Fore-Aft

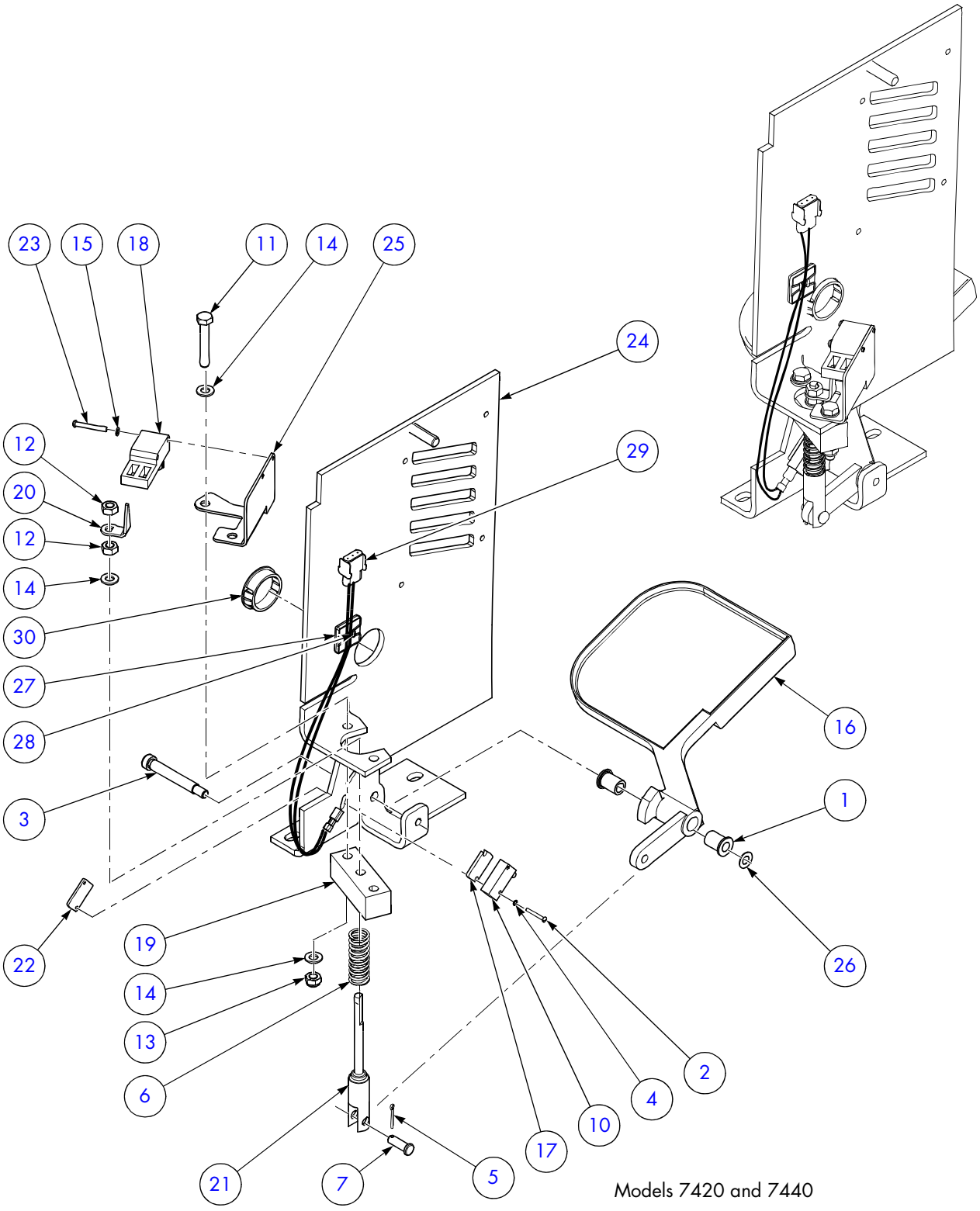
Figure 4-7a: Deadman Pedal Assembly, Fore-Aft



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Deadman Pedal Assembly, Fore-Aft

Figure 4-7b: Deadman Pedal Assembly, Fore-Aft



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List 4-7: Deadman Pedal Assembly, Fore-Aft

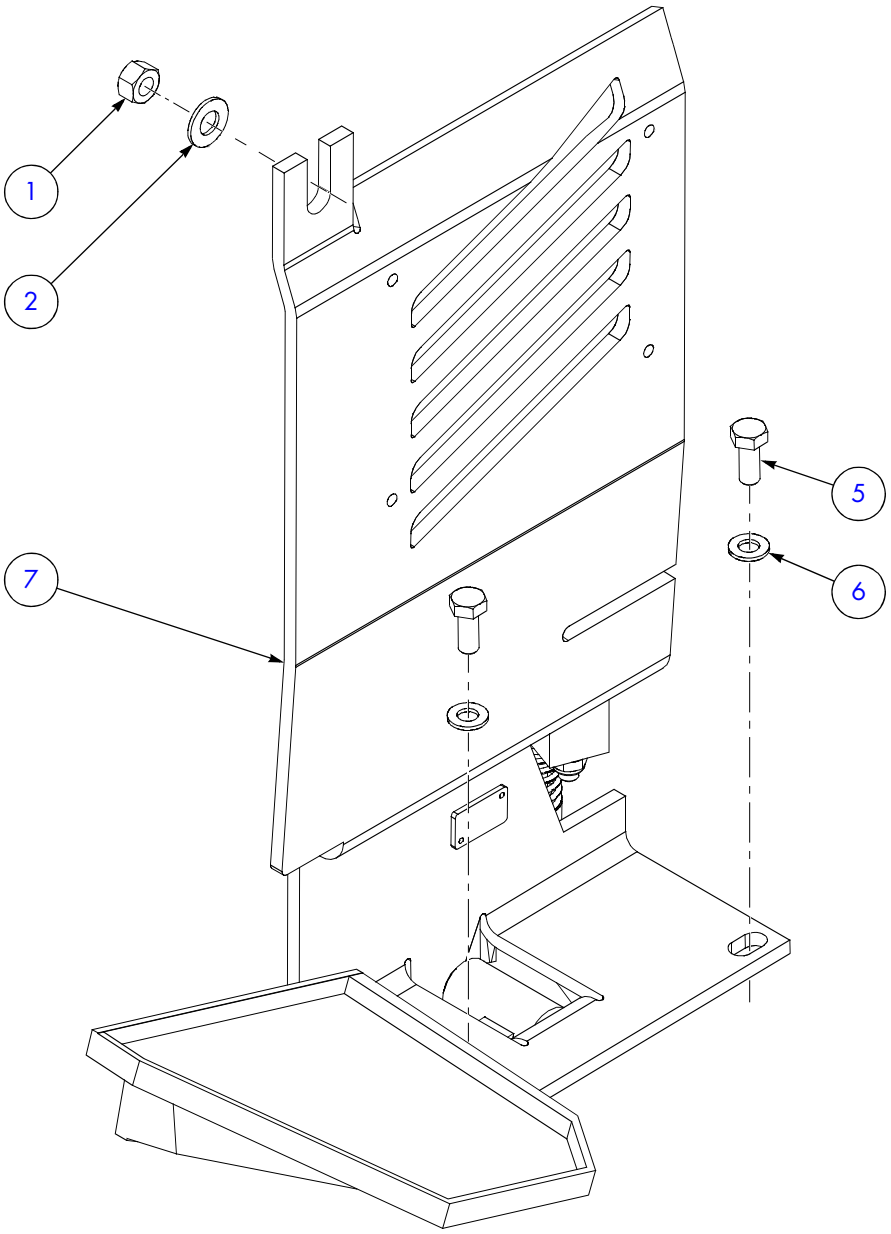
FIGURE 4-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	462-010	Bearing, Oil-Impregnated, Deadman Pedal	R
2	2	701-021	Screw	A
	2	701-018	Screw	B
3	1	716-002	Screw	
4	2	774-105	Washer, Lock	
5	1	810-910	Pin, Cotter	
6	1	830-129	Spring, Compression	R
7	1	861-013	Pin	
8	2	771-006	Washer, Flat	A
10	1	7-590-003/001	Switch, Deadman (S2)	R
11	2	5-001-001	Screw	A
	2	5-001-012	Screw	B
12	2	5-015-005	Nut	
13	2	5-016-005	Nut, Nylon Locking	B
14	5	5-018-006	Washer, Flat	B
15	2	5-019-003	Washer, Lock	B
16	1	828-005-573	Pedal, Deadman, Fore-Aft Stance	
17	1	828-005-575	Spacer, Switch	
18	1	1009427	Sensor, Proximity, Deadman (VR4)	R
19	1	1009461	Retainer, Spring	
20	1	1009638	Stem, Sensor	
21	1	1089075	Rod, Adjustment	A
	1	1009691	Rod, Adjustment	B
22	1	1009771	Plate, Mounting	
23	2	1009854	Screw	
24	1	1089068	Bracket, Deadman	A
	1	1038707	Bracket, Deadman	B
25	1	1078760	Bracket, Sensor	A
	1	1011338	Bracket, Sensor	B
26	AR	464-006	Washer, Oil-Impregnated	
27	1	611-044	Anchor, Cable Tie, Adhesive-Backed	
28	1	611-029	Cable Tie	
29	1	1015478	Harness, Deadman Switch (S2)	
30	1	1039179	Plug, Button	
31	1	760-013	Nut	A

A= Model 7400
B= Models 7420 and 7440
R= Recommended Spare

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Deadman Pedal Installation, Side Stance

Figure 4-8a: Deadman Pedal Installation, Side Stance

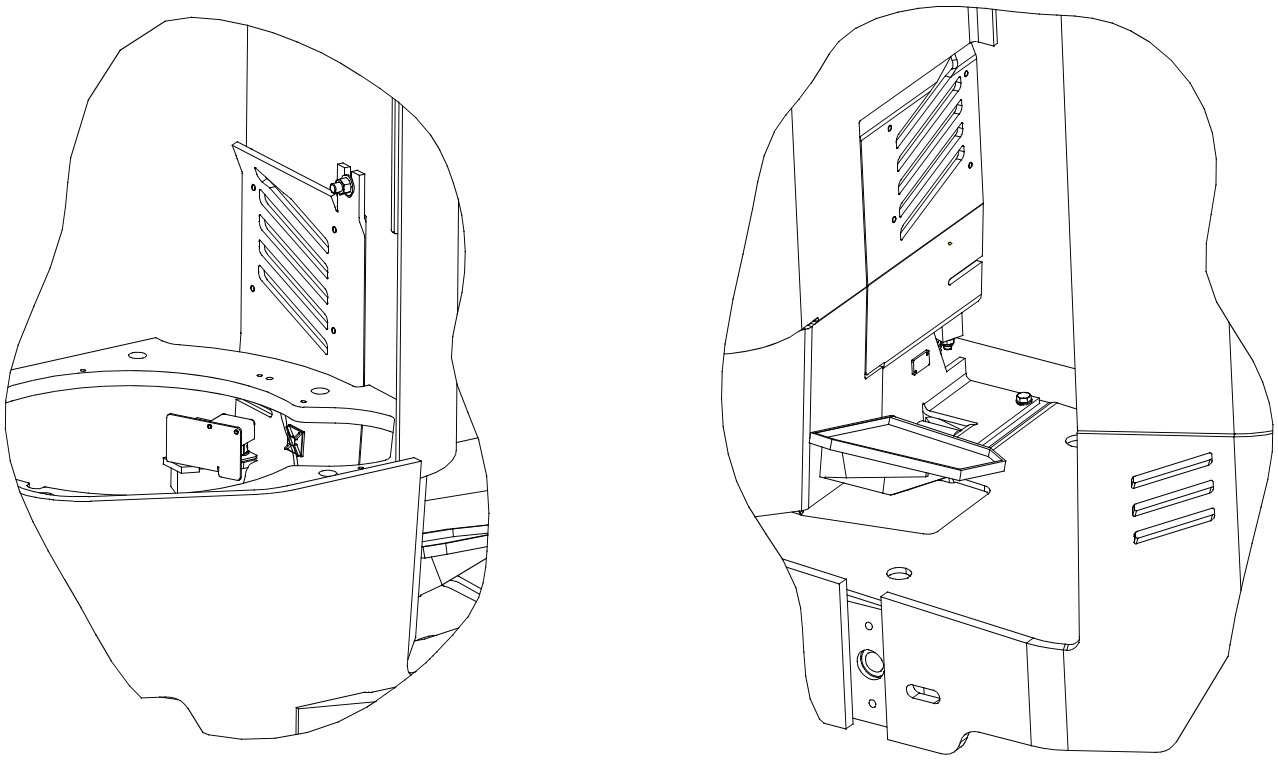


R1017178_A SHT 1 OF 2

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Deadman Pedal Installation, Side Stance

Figure 4-8b: Deadman Pedal Installation, Side Stance



VIEW FROM DRIVE UNIT COMPARTMENT

VIEW FROM OPERATOR COMPARTMENT

R1017178_A1, R1017178_A2 SHT 2 OF 2

List 4-8: Deadman Pedal Installation, Side Stance

FIGURE 4-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	750-020	Nut	
2	1	771-023	Washer, Flat	
5	2	5-001-008	Screw	
6	2	5-018-006	Washer, Flat	
7	1	Ref.	Pedal Assembly, Deadman, Side Stance (See Figure 4-9a.)	

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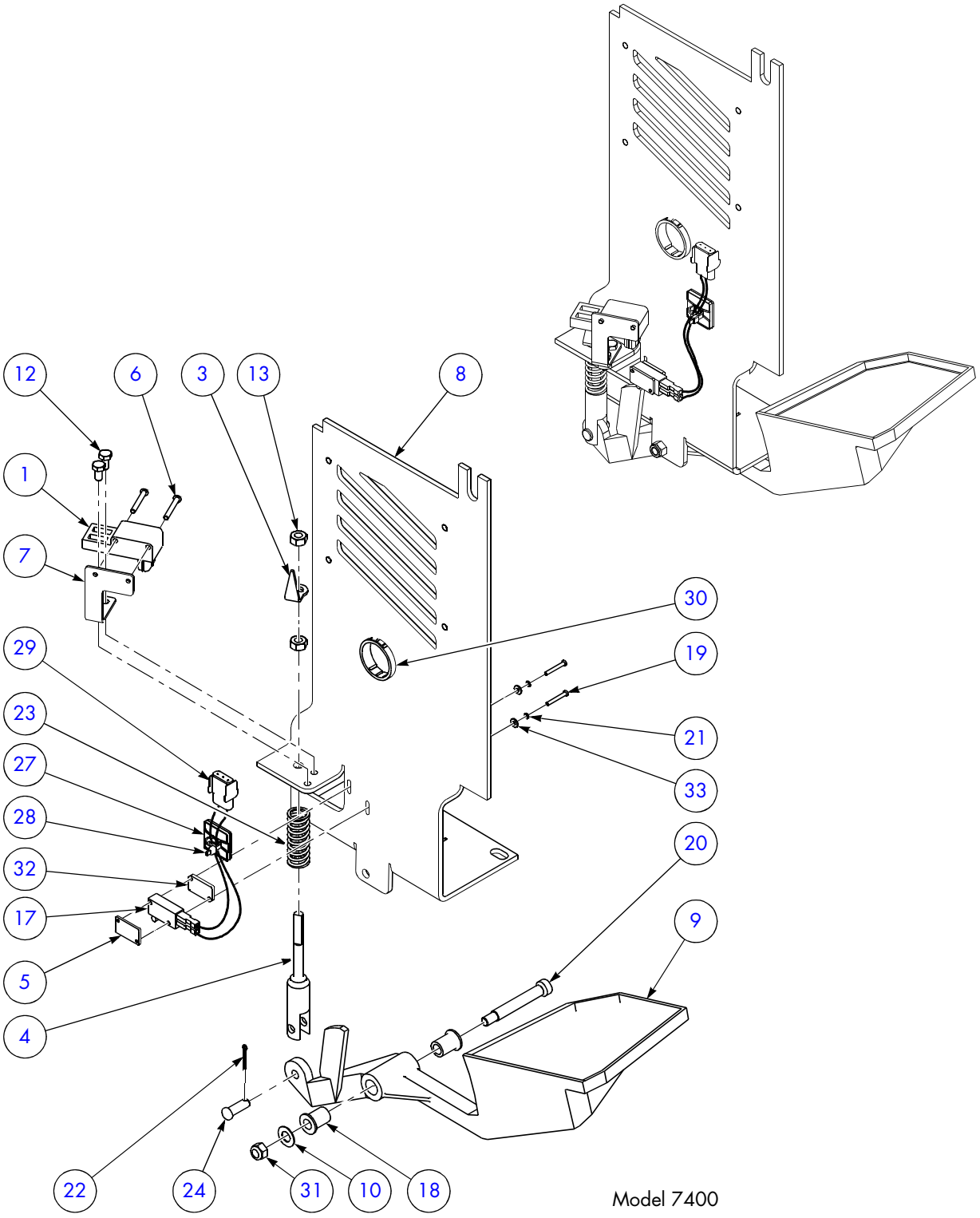
Deadman Pedal Installation, Side Stance

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Deadman Pedal Assembly, Side Stance

Figure 4-9a: Deadman Pedal Assembly, Side Stance

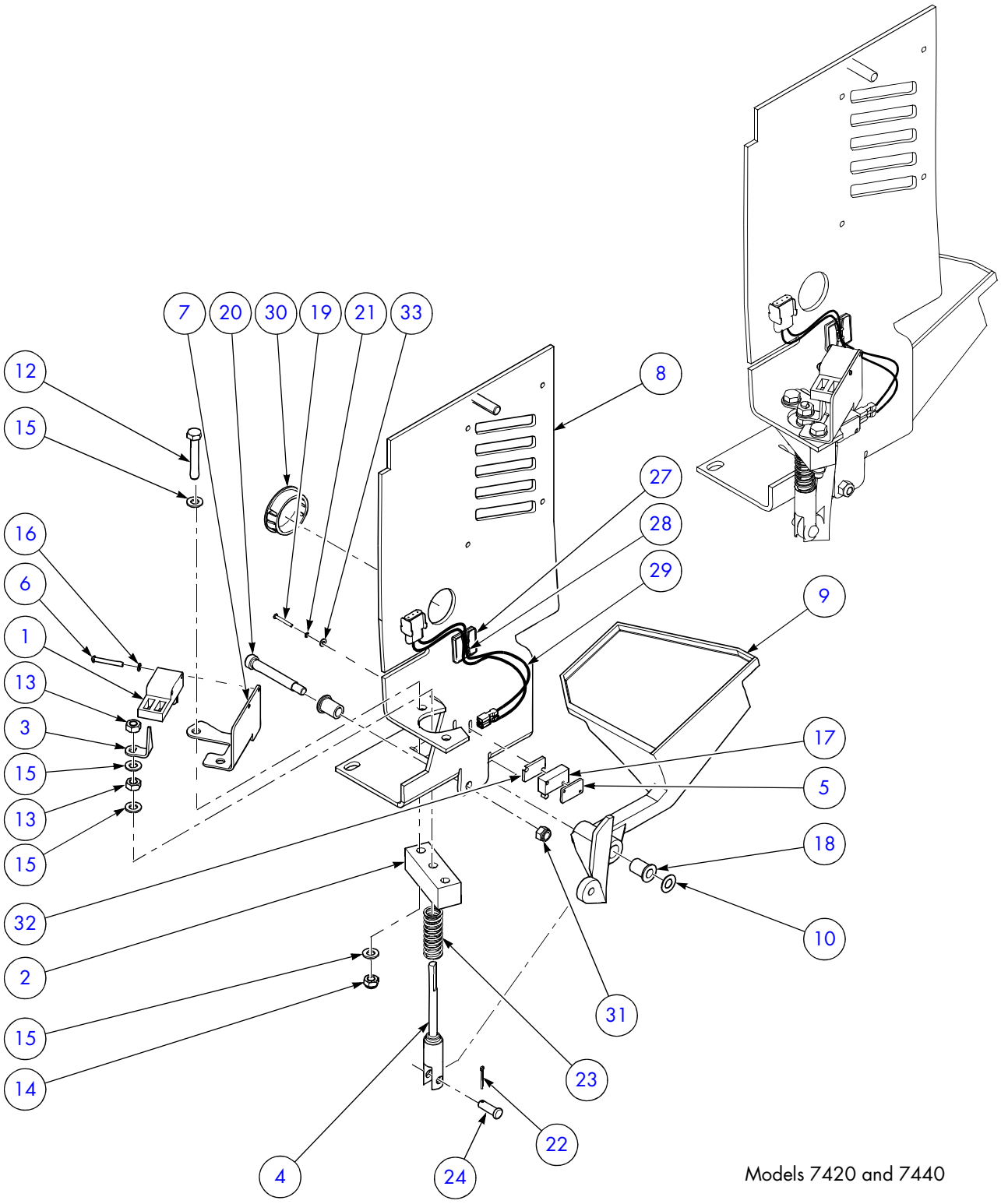


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Deadman Pedal Assembly, Side Stance

Figure 4-9b: Deadman Pedal Assembly, Side Stance



Models 7420 and 7440

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List 4-9: Deadman Pedal Assembly, Side Stance

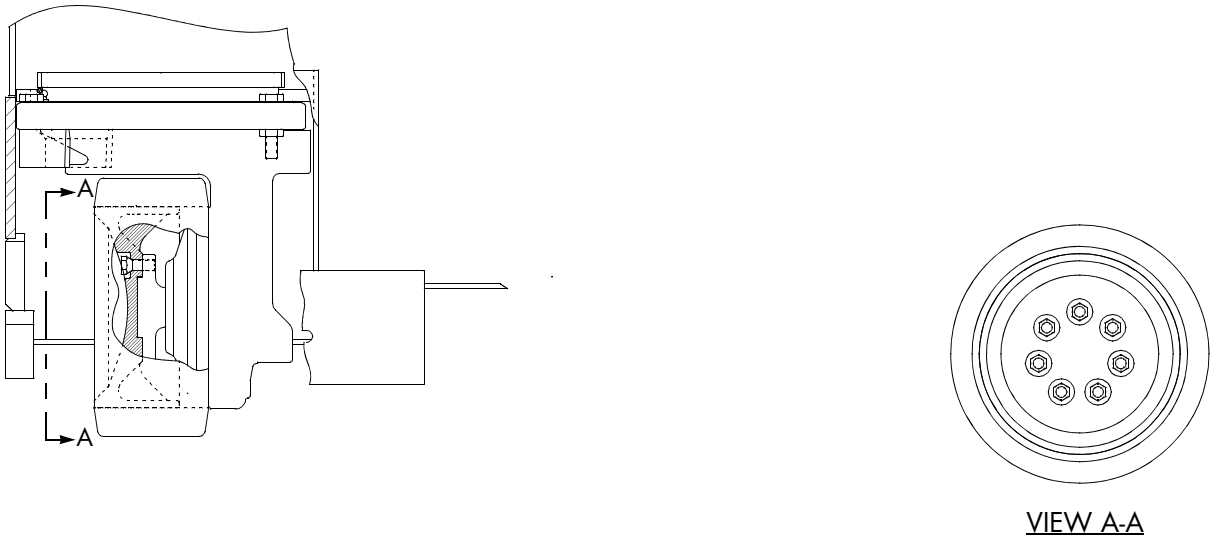
FIGURE 4-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1009427	Sensor, Proximity, Deadman (VR4)	R
2	1	1009461	Retainer, Spring	B
3	1	1009638	Stem, Sensor	
4	1	1009691	Rod, Adjustment	B
	1	1089075	Rod, Adjustment	A
5	1	1009771	Plate, Mounting	
6	2	1009854	Screw	
7	1	1078760	Bracket, Sensor	A
	1	1011338	Bracket, Sensor	B
8	1	1088981	Bracket, Deadman	A
	1	1038980	Bracket, Deadman	B
9	1	1029587	Pedal, Machined	
10	AR	464-006	Washer, Oil-Impregnated	R
12	2	5-001-012	Screw	B
	2	5-001-001	Screw	A
13	2	5-015-005	Nut	
14	2	5-016-005	Nut, Nylon Locking	B
15	6	5-018-006	Washer, Flat	B
16	2	5-019-003	Washer, Lock	B
17	1	7-590-003/001	Switch, Deadman (S2)	R
18	2	462-010	Bearing, Oil-Impregnated, Deadman Pedal	R
19	2	701-021	Screw	
20	1	716-002	Screw	
21	2	774-105	Washer, Lock	
22	1	810-910	Pin, Cotter	
23	1	830-129	Spring, Compression	R
24	1	861-013	Pin	
27	1	611-044	Anchor, Cable Tie, Adhesive-Backed	
28	1	611-029	Cable Tie	
29	1	1015478	Harness, Deadman Switch (S2)	
30	1	1039179	Plug, Button	
31	1	760-013	Nut	
32	1	828-005-575	Spacer, Switch	
33	2	771-006	Washer, Flat	

A= Model 7400
B= Models 7420 and 7440
R= Recommended Spare

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Drive Wheel Installation

Figure 4-10: Drive Wheel Installation



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List 4-10: Drive Wheel Installation

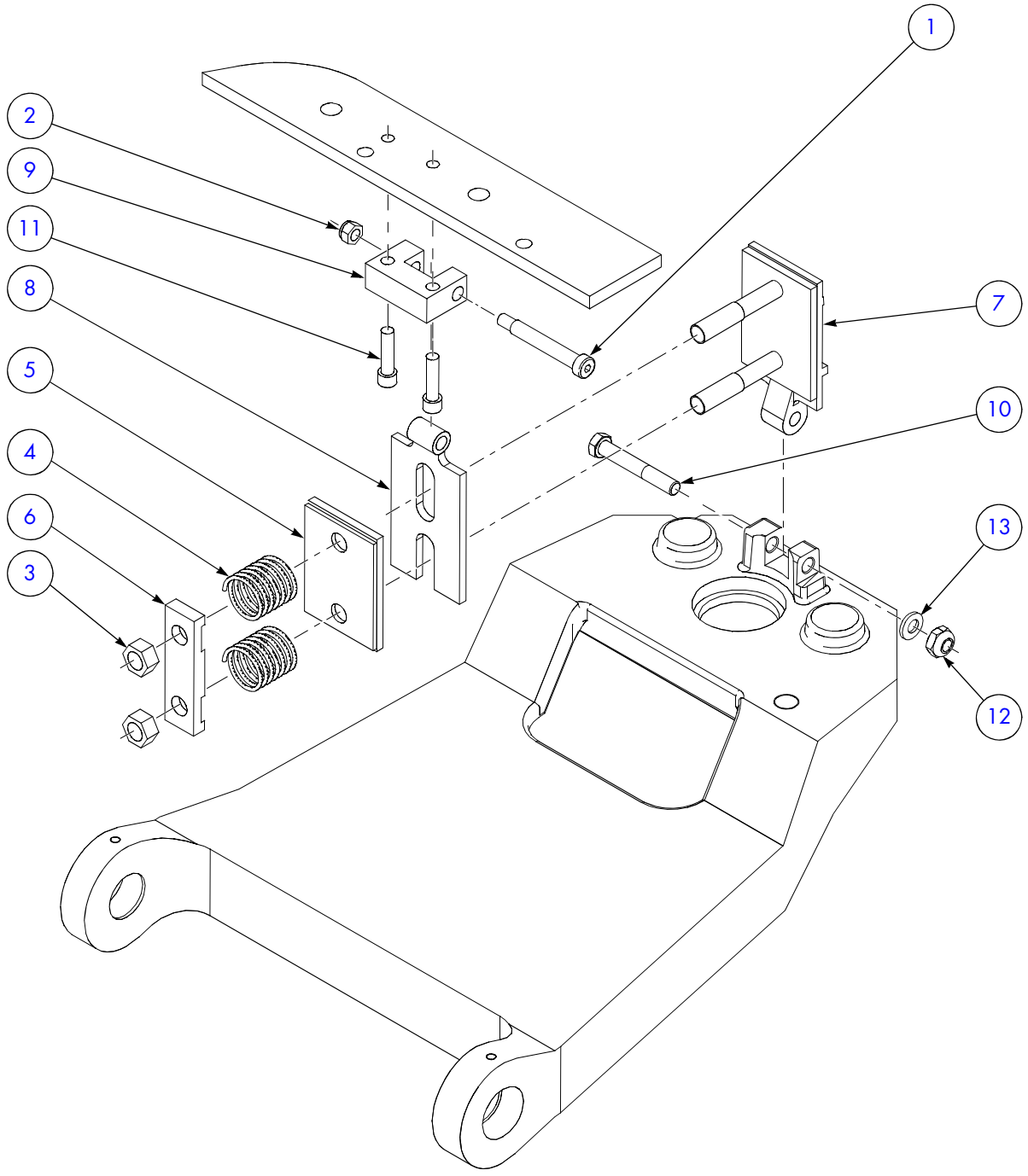
FIGURE 4-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	828-003-339/101	Wheel, Drive, Assembly (includes:)	
	1	632-131/001	Tire, Drive	A, R
	1	632-131/101	Tire, Drive	B
	1	828-003-073	Hub, Drive Wheel, Machined	
2	7	828-003-193	Bolt, Lug	

A= Red (Trostel)
B= Red (Thombert)
R= Recommended Spare

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Inertial Dampener Assembly

Figure 4-11: Inertial Dampener Assembly



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List 4-11: Inertial Dampener Assembly

FIGURE 4-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1041459	Inertial Dampener Assembly (includes: items 1 thru 9)	
1	1	716-002	Screw	
2	1	760-013	Nut, Lock	
3	2	760-130	Nut, Lock	
4	2	830-242	Spring, Compression	R
5	1	828-009-201	Plate, Pad	
6	1	828-009-205	Plate, Compression Spring	
7	1	1014664	Plate Weldment, Slider	
8	1	1019692	Bracket, Inertial Dampener	
9	1	1041460	Plate, Friction	
10	1	716-143	Screw	
11	2	714-107	Screw	
12	1	760-013	Nut, Lock	
13	AR	771-160	Washer, Flat	

R= Recommended Spare

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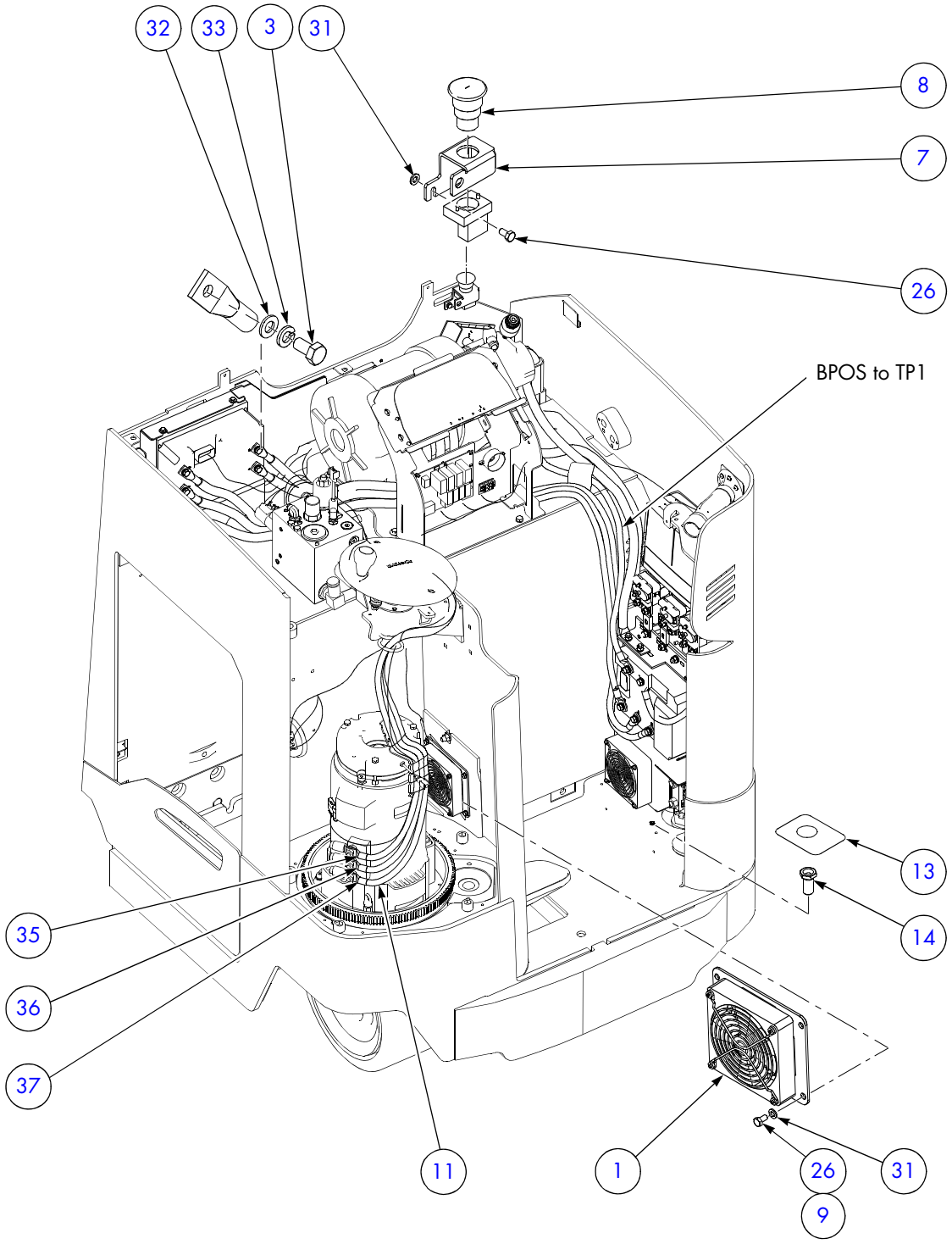
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Electrical System, Fore-Aft, AC Lift

Figure 5-1a: Electrical System, Fore-Aft, AC Lift

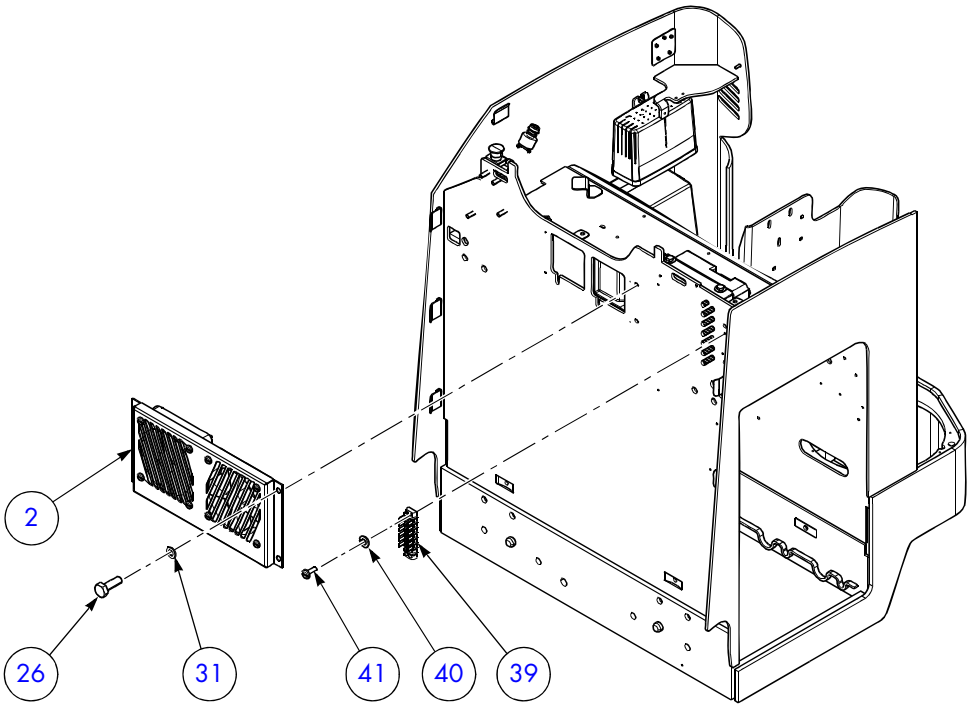


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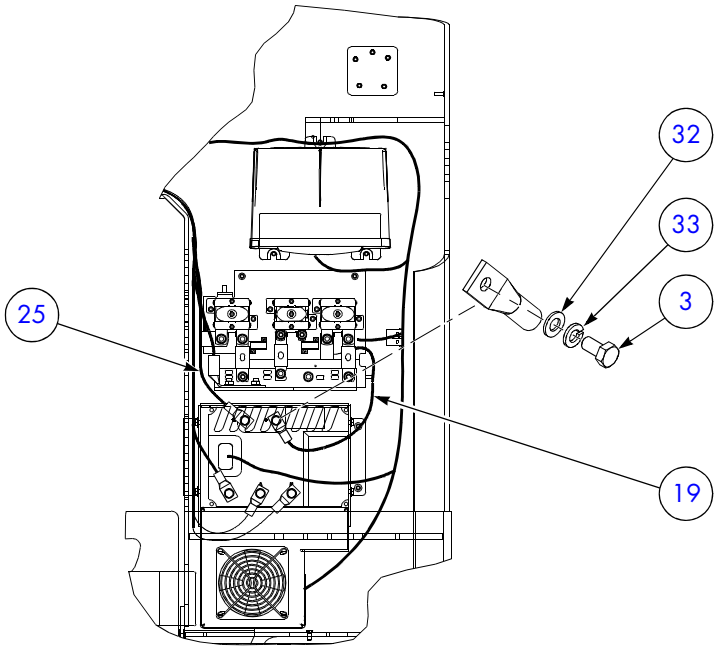
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Electrical System, Fore-Aft, AC Lift

Figure 5-1b: Electrical System, Fore-Aft, AC Lift



VIEW C-C



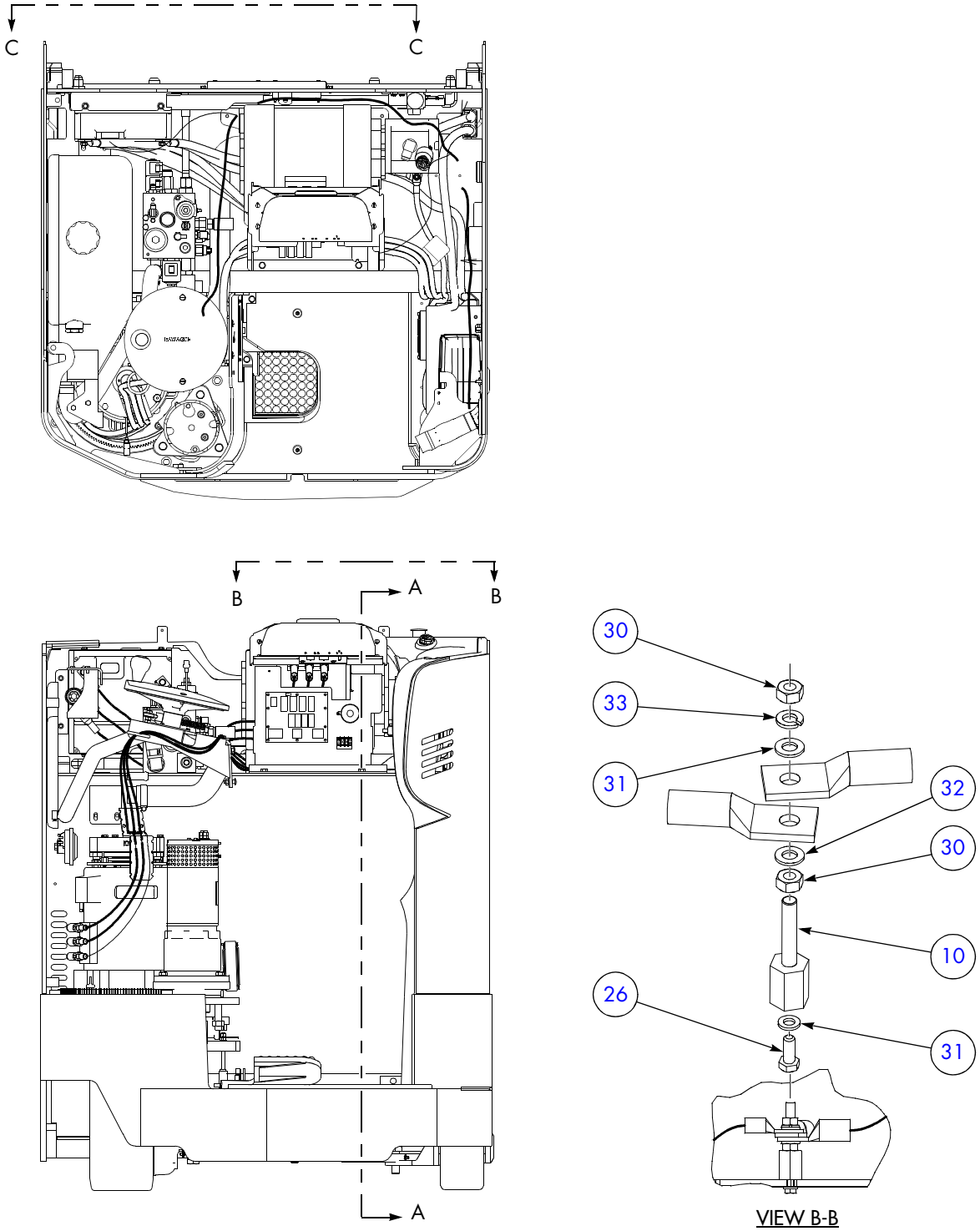
SECTION A-A

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Electrical System, Fore-Aft, AC Lift

Figure 5-1c: Electrical System, Fore-Aft, AC Lift

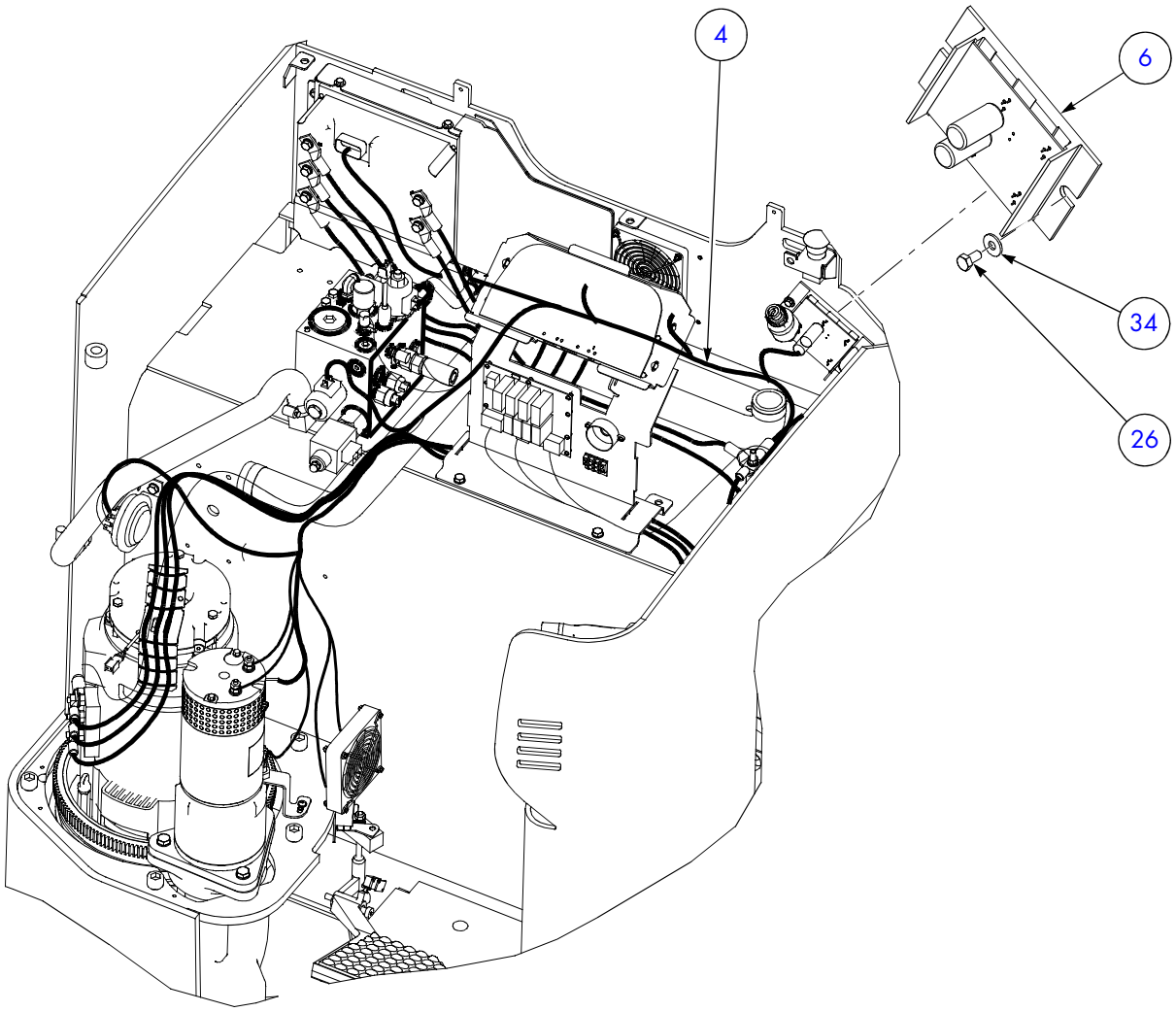


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Electrical System, Fore-Aft, AC Lift

Figure 5-1d: Electrical System, Fore-Aft, AC Lift

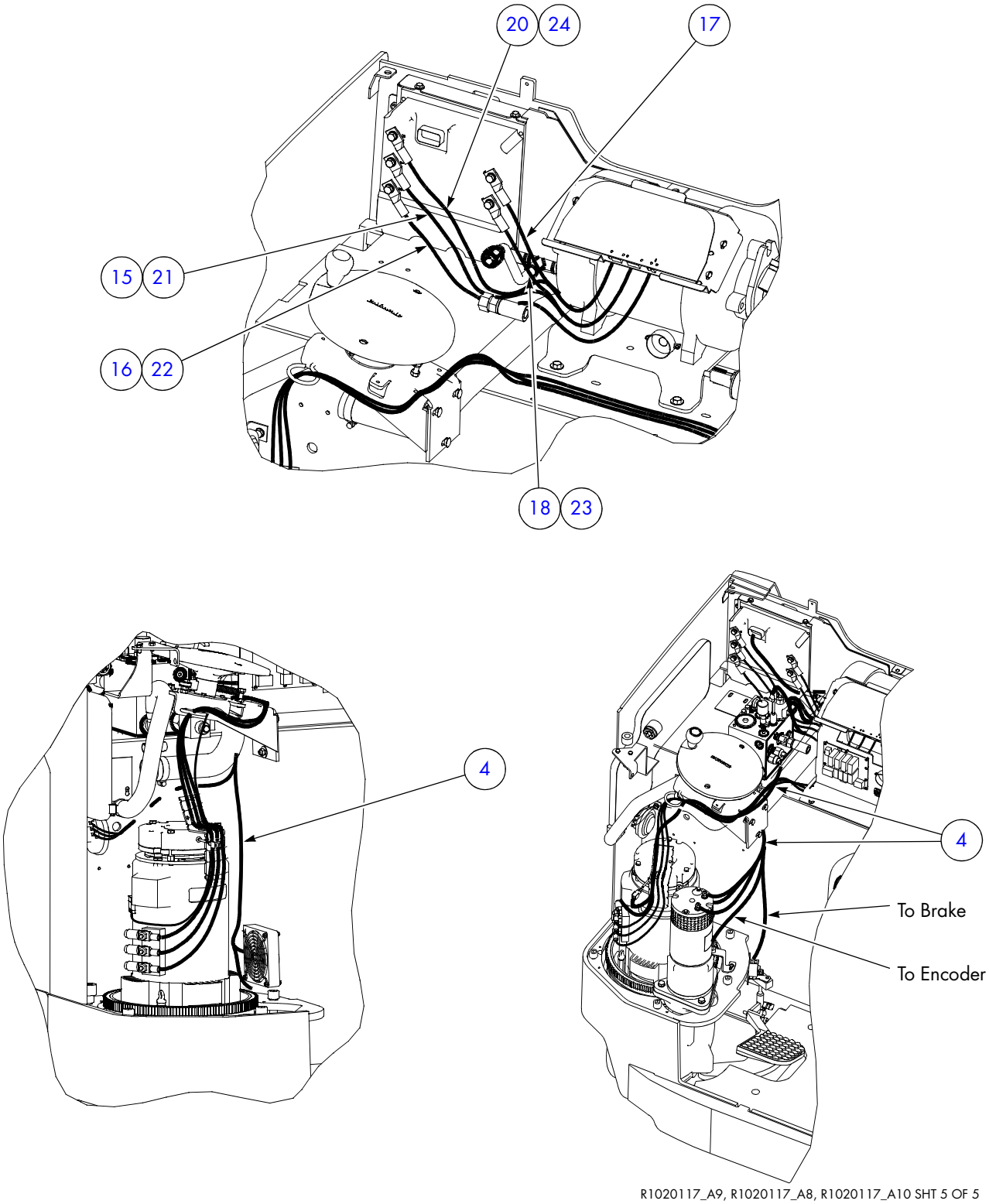


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Electrical System, Fore-Aft, AC Lift

Figure 5-1e: Electrical System, Fore-Aft, AC Lift



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List 5-1: Electrical System, Fore-Aft, AC Lift (Sheet 1 of 2)

FIGURE 5-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1052451	Fan Assembly, Drive Motor Compartment (See Figure 5-29.)	E
	1	1010845	Fan Assembly, Drive Motor Compartment (See Figure 5-29.)	D
2	1	1018881	Fan Assembly, Lift Motor Compartment, AC Lift (See Figure 5-30.)	
3	10	5-001-009	Screw	
4	1	1099657/001	Harness Assembly, Main, AC Lift, Fore-Aft Stance	
6	1	1005525/004	Card Assembly, Circuit, Steer Amplifier	R
7	1	1012075	Bracket, EPO Switch	
8	1	1078248	Switch, EPO	R
9	4	5-001-056	Screw (Model 7400 and All UL Type EE)	
10	1	7-861-002/005	Insulator, Standoff	
11	1	1066631/001	Cable Assembly, Drive Motor (includes: items 35 thru 38)	E
	1	1052558/001	Cable Assembly, Drive Motor (includes: items 35 thru 38)	C, D
12	AR	611-028	Cable Tie (Not Shown)	
13	1	411-936	Label, ESD	
14	1	870-866	Jack, Banana, ESD	
15	1	828-013-533/053	Cable Assembly (LA-V to LM-V)	B
16	1	828-013-533/054	Cable Assembly (LA-W to LM-W)	B
17	1	828-013-533/055	Cable Assembly (TP4 to LA-BNEG)	
18	1	828-013-533/056	Cable Assembly (LPC2 to LA-BPOS)	A
	1	828-013-533/127	Cable Assembly (LPC2 to LA-BPOS)	A, C
19	1	828-013-533/057	Cable Assembly (TPC2 to TA-BPOS)	
	1	828-013-533/128	Cable Assembly (TPC2 to TA-BPOS)	C
20	1	828-013-533/058	Cable Assembly (LA-U to LM-U)	A
21	1	828-013-533/059	Cable Assembly (LA-V to LM-V)	A
22	1	828-013-533/060	Cable Assembly (LA-W to LM-W)	A
23	1	828-013-533/062	Cable Assembly (LPC2 to LA-BPOS)	B
	1	828-013-533/129	Cable Assembly (LPC2 to LA-BPOS)	B, C
24	1	828-013-533/063	Cable Assembly (LA-U to LM-U)	B
25	1	828-013-533/064	Cable Assembly (TA-BNEG to TP4)	
26	13	5-001-001	Screw (Quantity 9 for Models 7420 and 7440)	
30	2	5-015-005	Nut	
31	10	5-018-005	Washer, Flat	
32	12	5-018-006	Washer, Flat	
33	10	5-019-006	Washer, Lock	
34	2	7-771-206	Washer, Flat	
35	1	828-013-533/139	Cable Assembly (TA-U to TM-U)	E
	1	828-013-533/122	Cable Assembly (TA-U to TM-U)	C, D
36	1	828-013-533/140	Cable Assembly (TA-V to TM-V)	E
	1	828-013-533/123	Cable Assembly (TA-V to TM-V)	C, D

A= 18.5 in. Battery Compartment
B= 21.5 in. Battery Compartment
C= EE Only
D= Model 7400
E= Model 7420 and 7440
R= Recommended Spare

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List 5-1: Electrical System, Fore-Aft, AC Lift (Sheet 2 of 2)

FIGURE 5-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
37	1	828-013-533/138	Cable Assembly (TA-W to TM-W)	E
	1	828-013-533/119	Cable Assembly (TA-W to TM-W)	C, D
38	1	1012123/001	Wire Assembly (JT2, JT3, and JBR to JS2) (Not Shown)	
39	1	1067508	Terminal Strip	
40	2	5-019-002	Washer, Lock	
41	2	5-010-040	Screw	

A= 18.5 in. Battery Compartment
B= 21.5 in. Battery Compartment
C= EE Only
D= Model 7400
E= Model 7420 and 7440
R= Recommended Spare

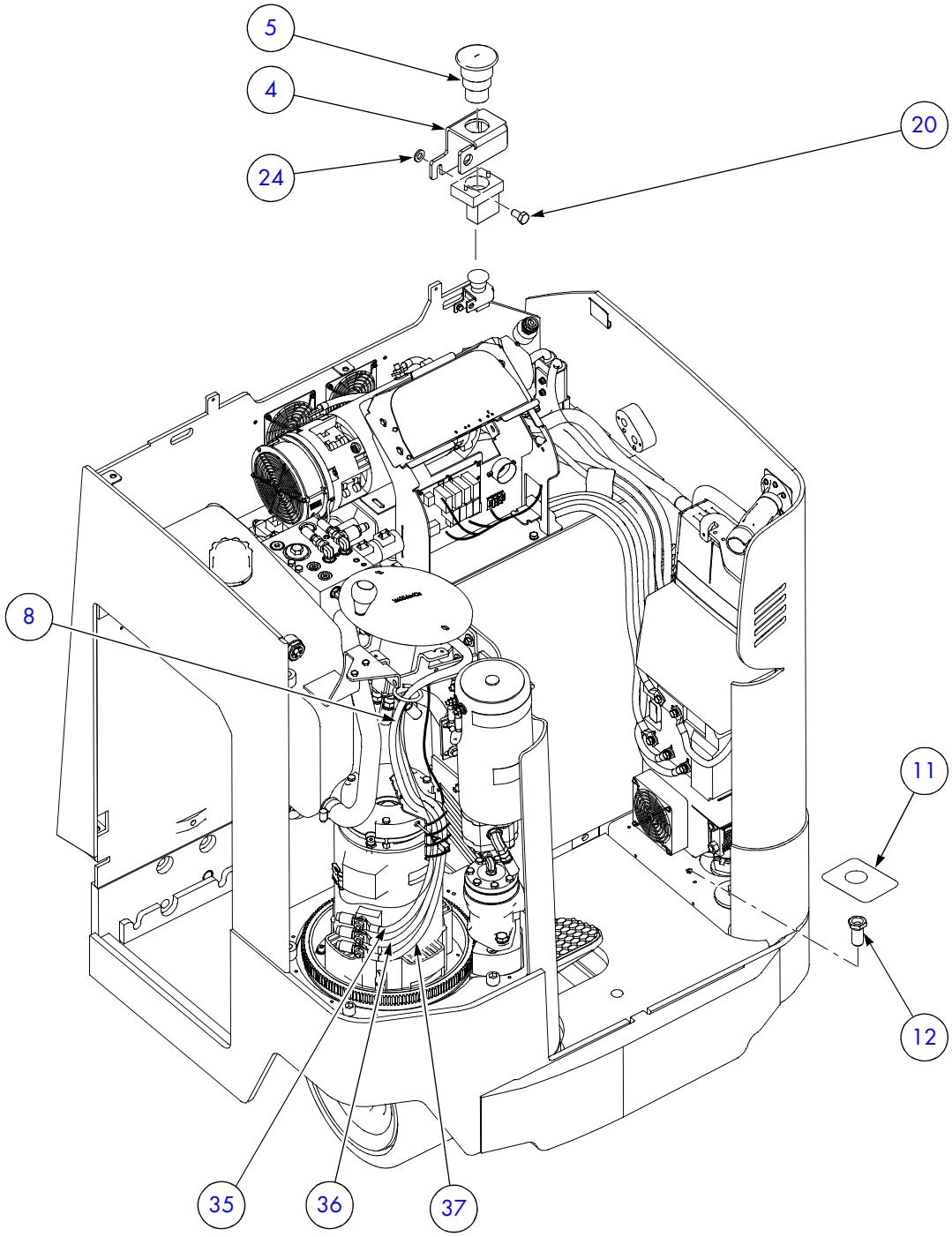
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Electrical System, Fore-Aft, DC Lift

Figure 5-2a: Electrical System, Fore-Aft, DC Lift

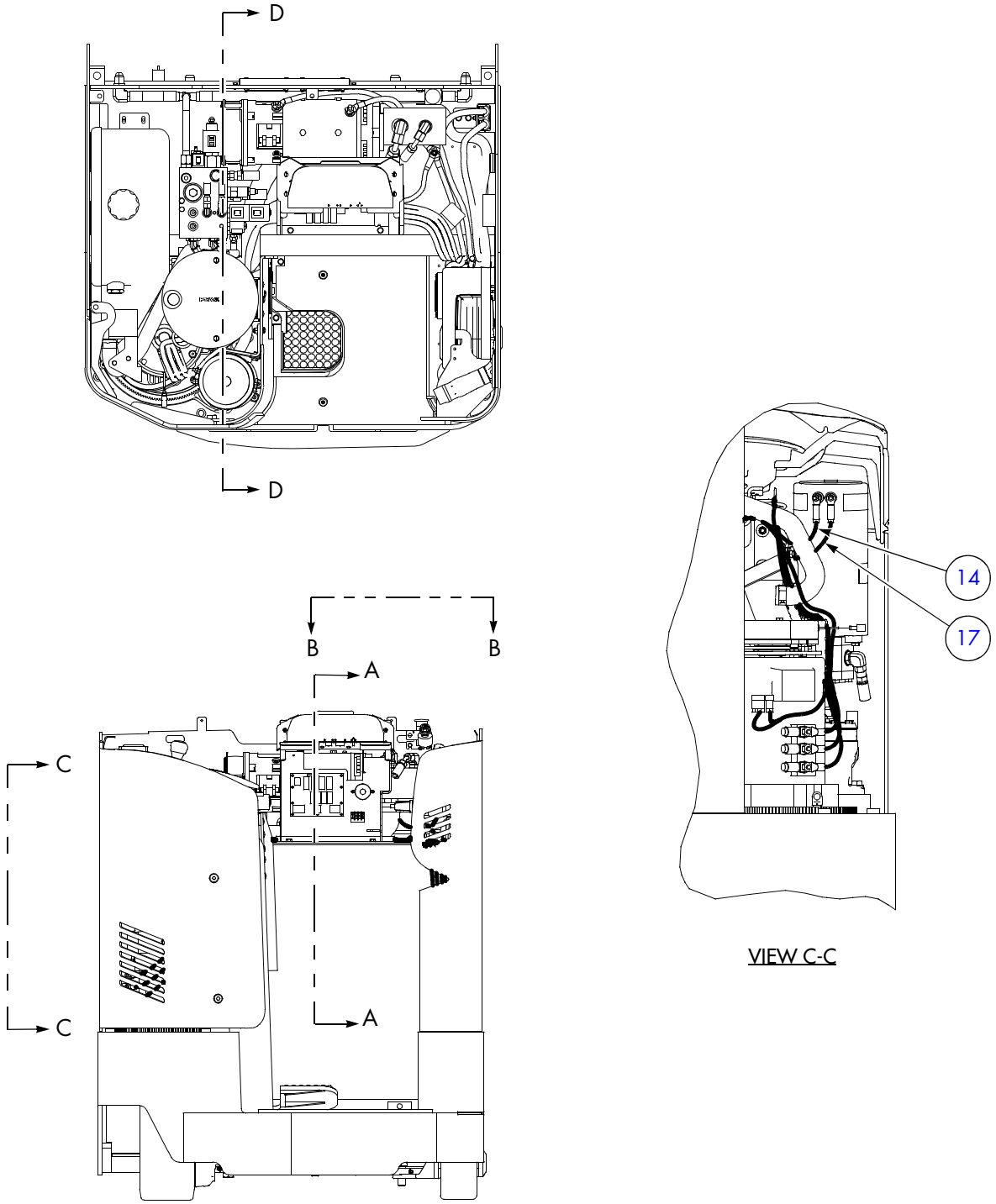


R1022988_C1 SHT 1 OF 5

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Electrical System, Fore-Aft, DC Lift

Figure 5-2b: Electrical System, Fore-Aft, DC Lift

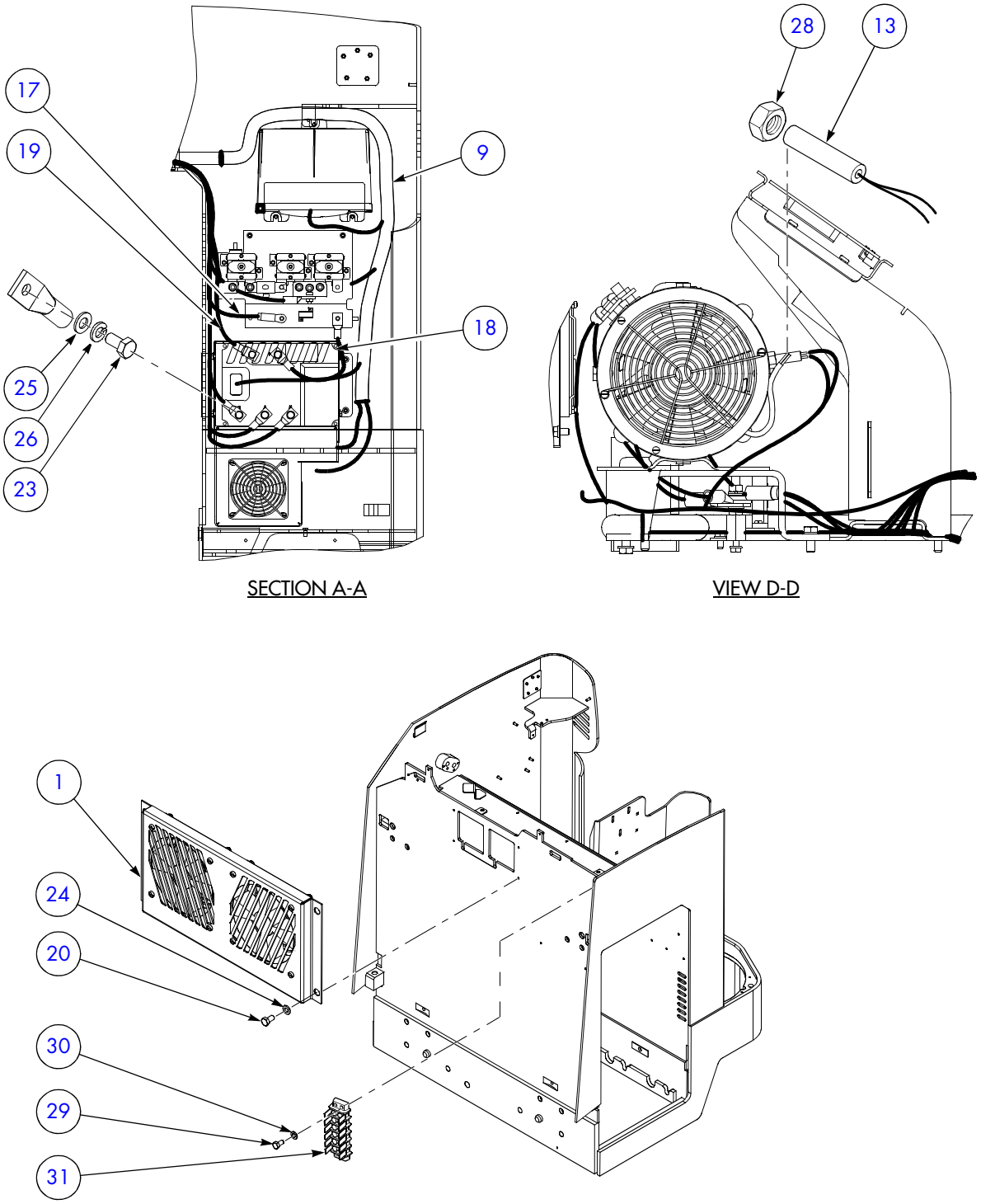


R1022988_C3, R1020116_A6, R1020116_A7 SHT 2 OF 5

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Electrical System, Fore-Aft, DC Lift

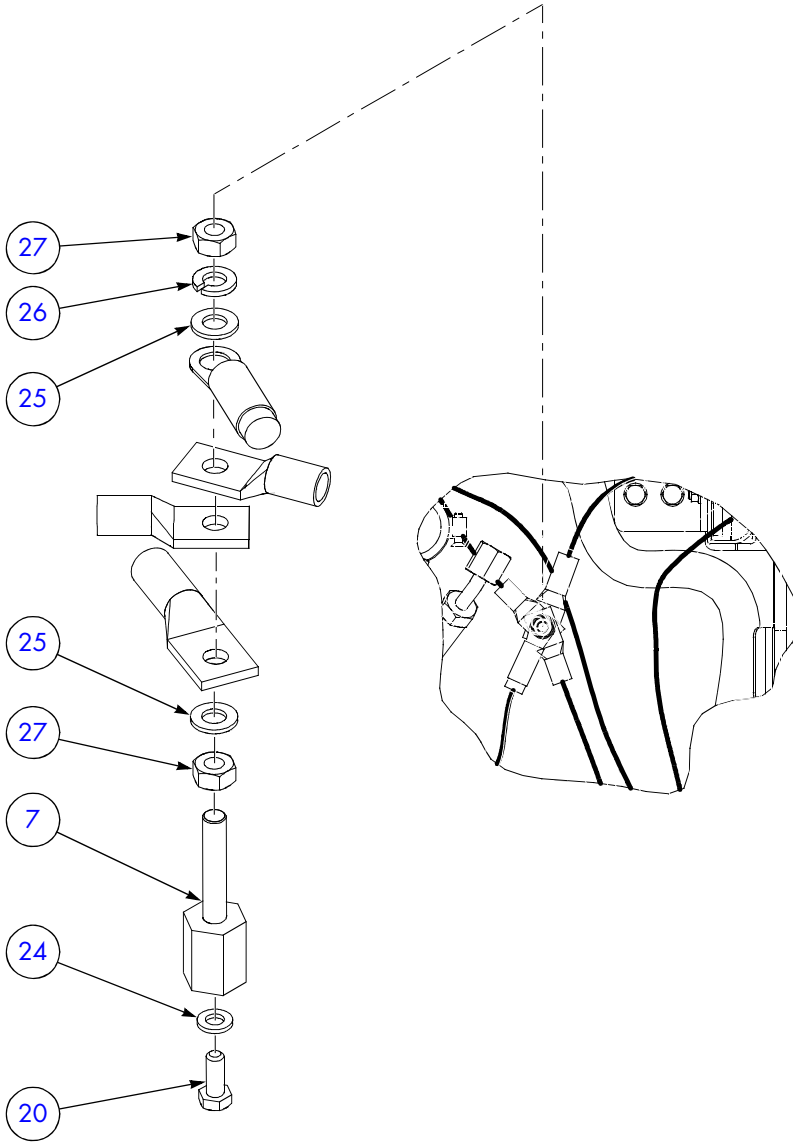
Figure 5-2c: Electrical System, Fore-Aft, DC Lift



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Electrical System, Fore-Aft, DC Lift

Figure 5-2d: Electrical System, Fore-Aft, DC Lift



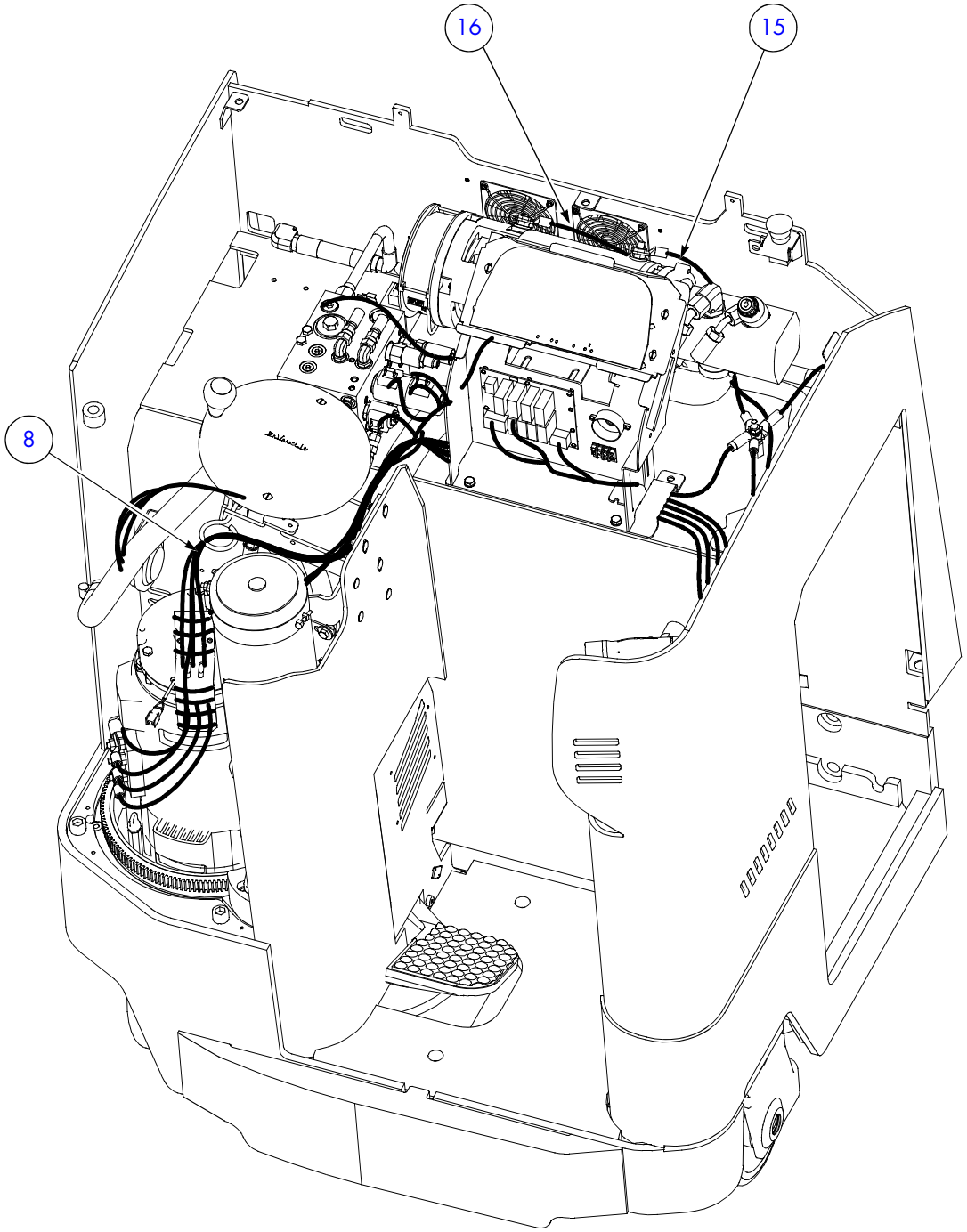
VIEW B-B

R1020116_A5, R1022988_C2 SHT 4 OF 5

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Electrical System, Fore-Aft, DC Lift

Figure 5-2e: Electrical System, Fore-Aft, DC Lift



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List 5-2: Electrical System, Fore-Aft, DC Lift

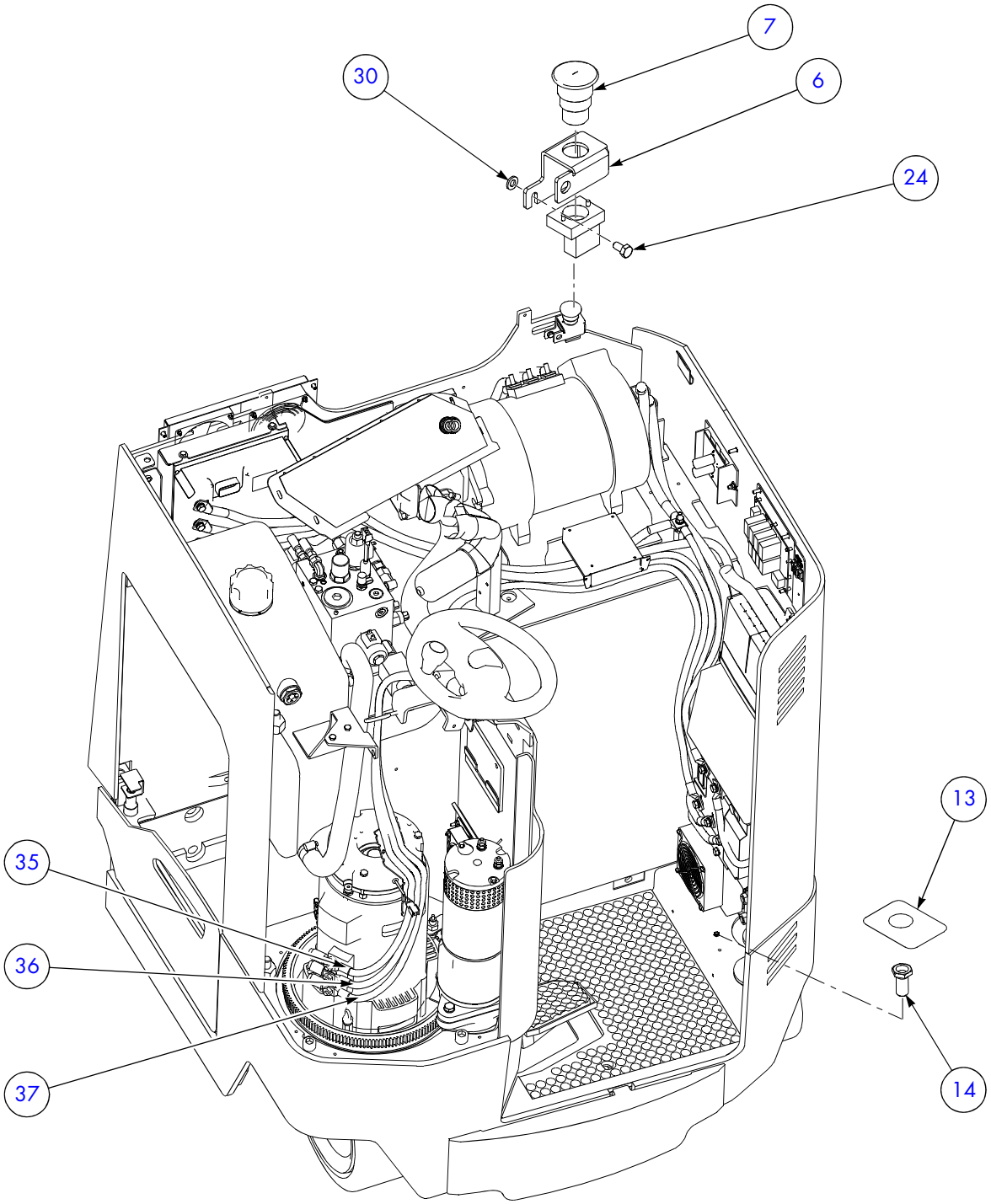
FIGURE 5-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1018882	Fan Assembly, Lift Motor Compartment, DC Lift (See Figure 5-30.)	
4	1	1012075	Bracket, EPO Switch	
5	1	1078248	Switch, EPO	R
6	1	1099656/001	Harness Assembly (Not Shown)	
7	1	7-861-002/005	Insulator, Standoff	
8	1	1052558/001	Cable Assembly, Drive Motor (includes: items 35 thru 38)	
9	1	1070609/001	Harness Assembly (UL Type EE only)	
10	AR	611-028	Cable Tie (Not Shown)	
11	1	411-936	Label, ESD	
12	1	870-866	Jack, Banana, ESD	
13	1	1013789/001	Sensor, Temperature, DC Lift Motor	R
14	1	828-013-533/093	Cable Assembly (TP4 to MSNEG)	
15	1	828-013-533/045	Cable Assembly (TP4 to LM-S1)	
16	1	828-013-533/094	Cable Assembly (LPC-2 to LM-A1)	
17	1	828-013-533/095	Cable Assembly (TP2 to MSPOS)	
18	1	828-013-533/049	Cable Assembly (TA-BPOS to TP5)	
19	1	828-013-533/064	Cable Assembly (TP4 to TA-BSNEG)	
20	7	5-001-001	Screw	
23	5	5-001-009	Screw	
24	6	5-018-005	Washer, Flat	
25	7	5-018-006	Washer, Flat	
26	6	5-019-006	Washer, Lock	
27	2	5-015-005	Nut	
28	1	750-019	Nut	
29	2	5-010-040	Screw	
30	2	5-019-002	Washer, Lock	
31	1	1067508	Terminal Strip	
35	1	828-013-533/122	Cable Assembly (TA-U to TM-U)	
36	1	828-013-533/123	Cable Assembly (TA-V to TM-V)	
37	1	828-013-533/119	Cable Assembly (TA-W to TM-W)	
38	1	1012123/001	Wire Assembly (JT2, JT3, and JBR to JS2) (Not Shown)	

R= Recommended Spare

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Electrical System, Side Stance, AC Lift

Figure 5-3a: Electrical System, Side Stance, AC Lift

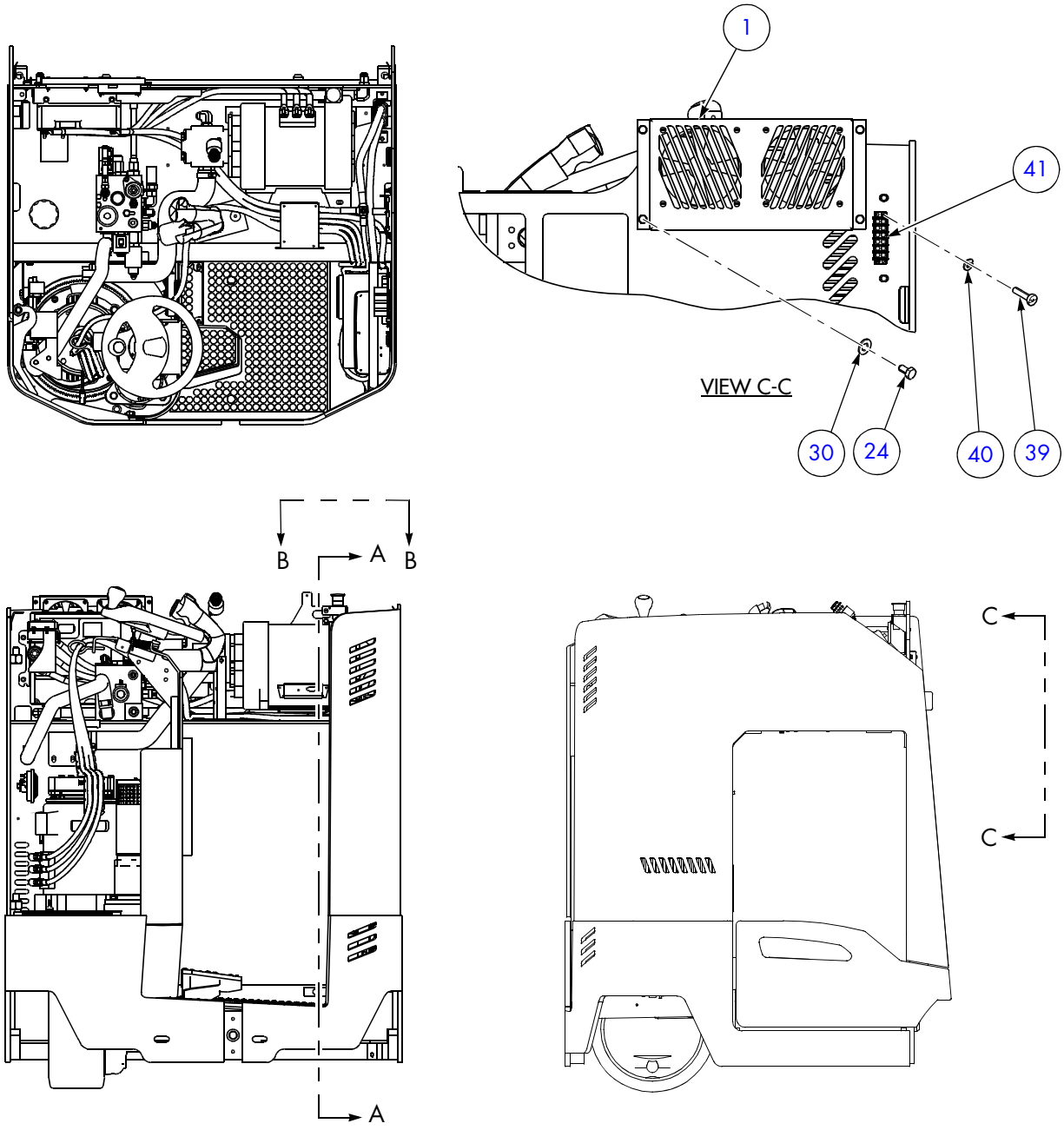


1071271_J2 SHT 1 OF 5

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Electrical System, Side Stance, AC Lift

Figure 5-3b: Electrical System, Side Stance, AC Lift

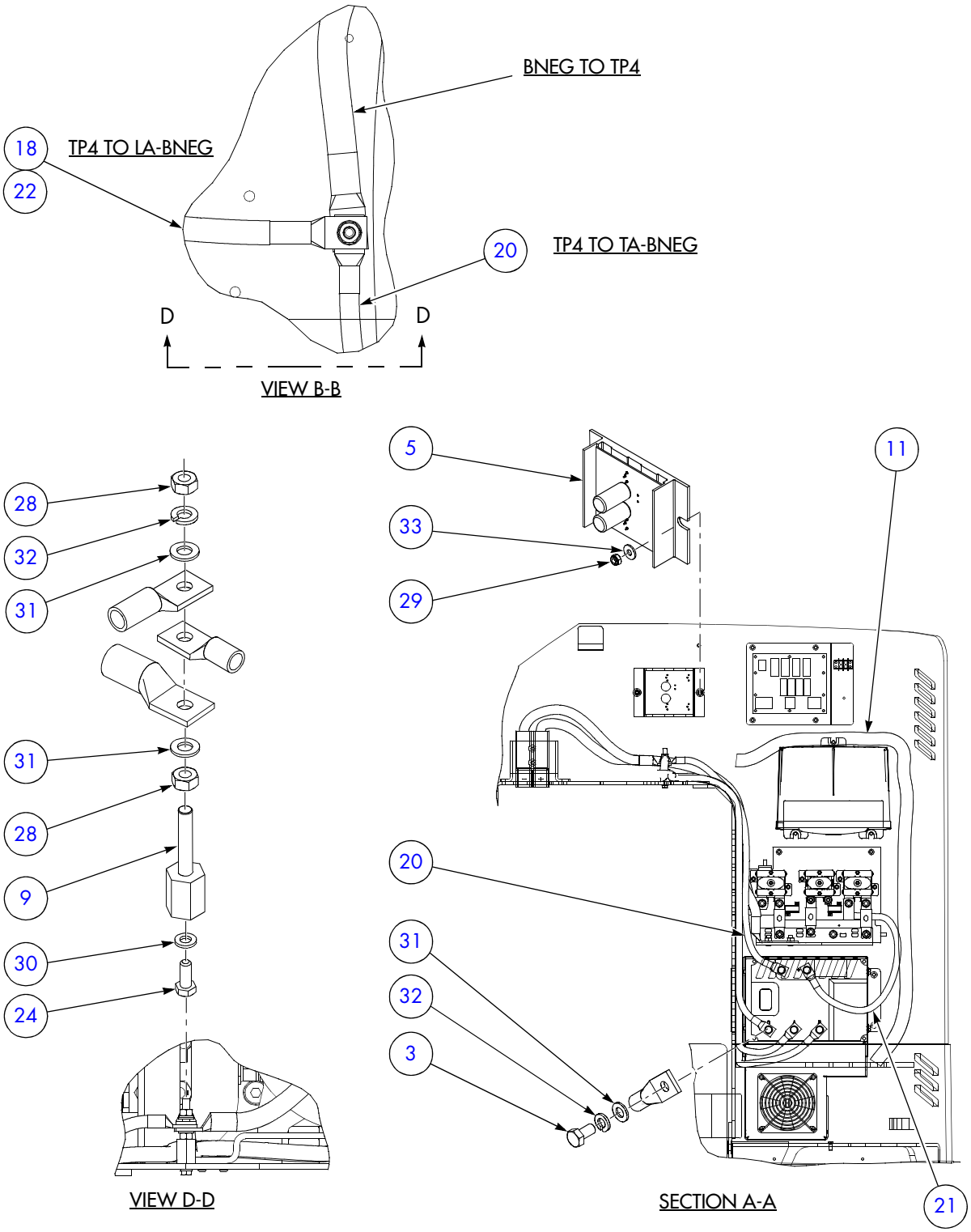


1071271_J3, 1071271_J4, 1071271_J5, R1020115_A8 SHT 2 OF 5

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Electrical System, Side Stance, AC Lift

Figure 5-3c: Electrical System, Side Stance, AC Lift

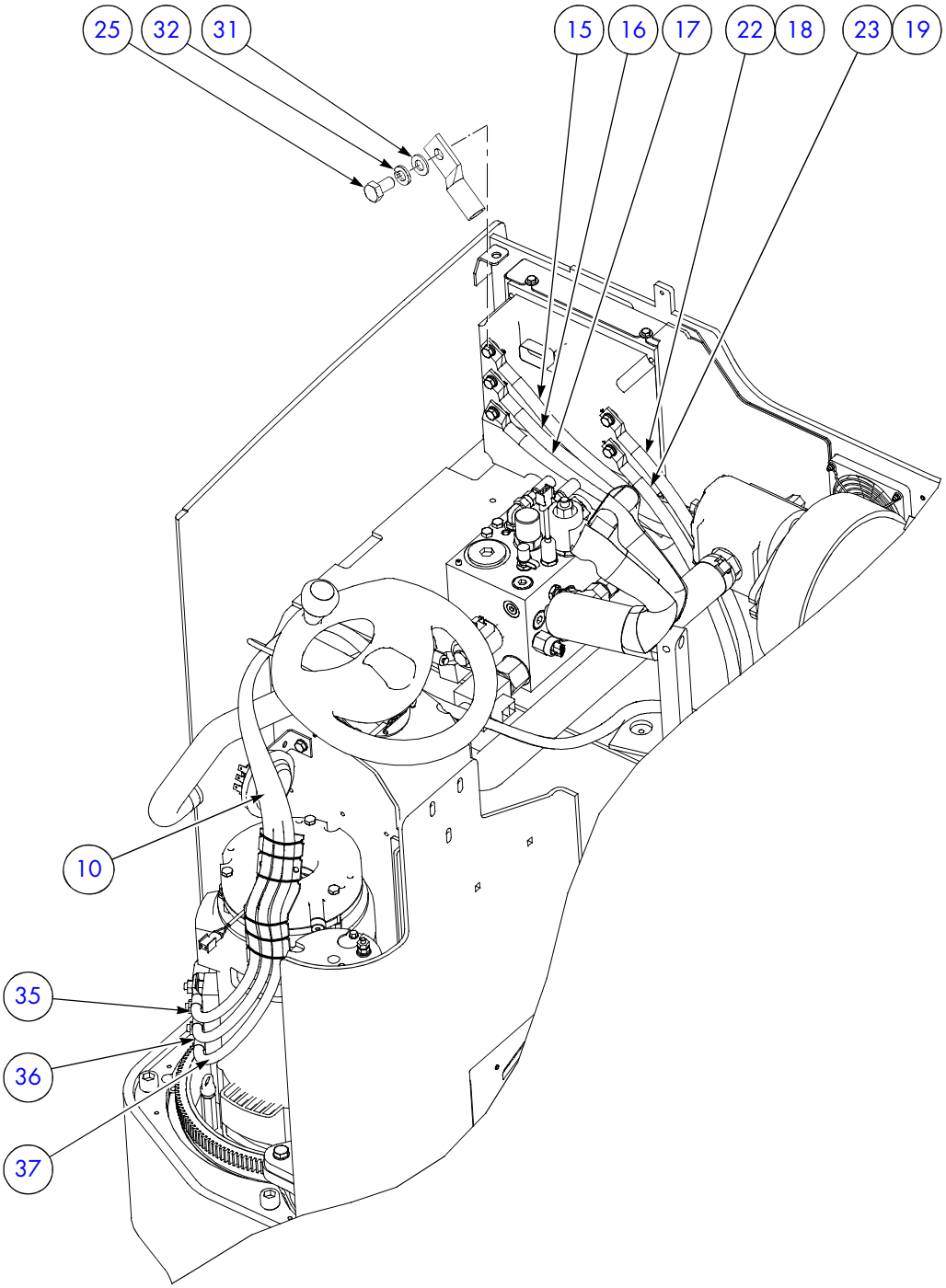


R1022985_C3, R1022985_C4, R1022985_C5 SHT 3 OF 5

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Electrical System, Side Stance, AC Lift

Figure 5-3d: Electrical System, Side Stance, AC Lift

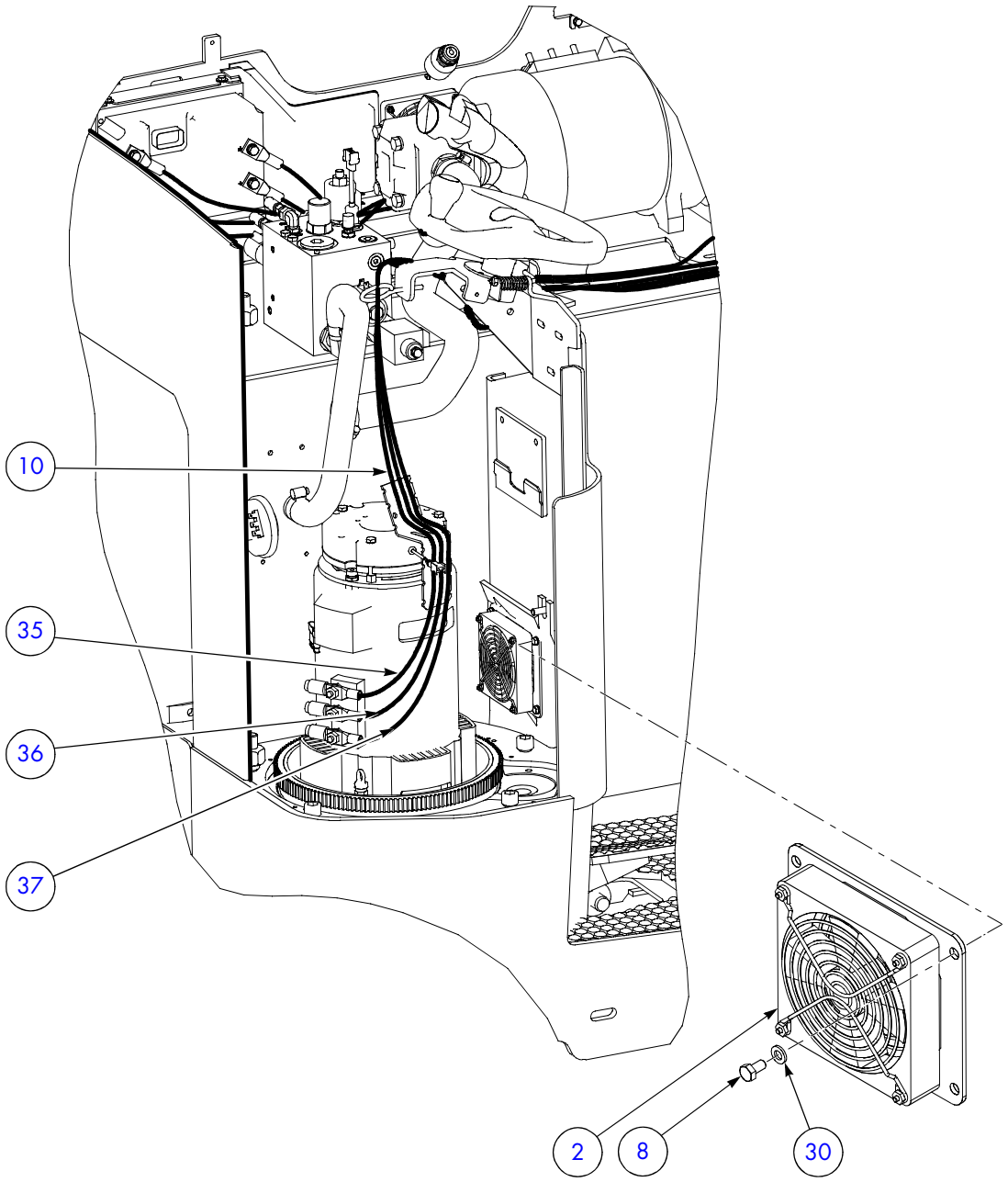


R1022985_C6 SHT4 OF 5

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Electrical System, Side Stance, AC Lift

Figure 5-3e: Electrical System, Side Stance, AC Lift



R1020115_A10 SHT 5 OF 5

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List 5-3: Electrical System, Side Stance, AC Lift (Sheet 1 of 2)

FIGURE 5-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1018881	Fan Assembly, Lift Motor Compartment, AC Lift (See Figure 5-30.)	
2	1	1010845	Fan Assembly, Drive Motor Compartment (See Figure 5-29.)	A
	1	1052451	Fan Assembly, Drive Motor Compartment (See Figure 5-29.)	B
5	1	1005525/004	Card Assembly, Circuit, Steer Amplifier	R
6	1	1012075	Bracket, EPO Switch	
7	1	1078248	Switch, EPO	R
8	4	5-001-056	Screw	
9	1	7-861-002/005	Insulator, Standoff	
10	1	1052559/001	Cable Assembly, Drive Motor (includes: items 35 thru 38)	A, C
	1	1066632/001	Cable Assembly, Drive Motor (includes: items 35 thru 38)	B
11	1	1099668/001	Harness Assembly, Main, AC Lift, Side Stance	
12	AR	611-028	Cable Tie (Not Shown)	
13	1	411-936	Label, ESD	
14	1	870-866	Jack, Banana, ESD	
15	1	828-013-533/073	Cable Assembly (LA-U to LM-U)	
16	1	828-013-533/074	Cable Assembly (LA-V to LM-V)	
17	1	828-013-533/075	Cable Assembly (LA-W to LM-W)	
18	1	828-013-533/076	Cable Assembly (TP4 to LA-BNEG) (18.5 in. Battery Compartment)	
19	1	828-013-533/077	Cable Assembly (LPC-2 to LA-BPOS) (18.5 in. Battery Compartment)	
	1	828-013-533/130	Cable Assembly (LPC-2 to LA-BPOS) (18.5 in. Battery Compartment)	C
20	1	828-013-533/083	Cable Assembly (TP4 to TA-BNEG)	
21	1	828-013-533/084	Cable Assembly (TPC-2 to TA-BPOS)	
	1	828-013-533/131	Cable Assembly (TPC-2 to TA-BPOS)	C
22	1	828-013-533/085	Cable Assembly (TP4 to LA-BNEG) (21.5 in. Battery Compartment)	
23	1	828-013-533/086	Cable Assembly (LPC-2 to LA-BPOS) (21.5 in. Battery Compartment)	
	1	828-013-533/132	Cable Assembly (LPC-2 to LA-BPOS) (21.5 in. Battery Compartment)	C
24	7	5-001-001	Screw	
25	10	5-001-009	Screw	
28	2	5-015-005	Nut	
29	2	5-016-004	Nut, Nylon Locking	
30	10	5-018-005	Washer, Flat	
31	12	5-018-006	Washer, Flat	
32	11	5-019-006	Washer, Lock	
33	2	7-771-206	Washer, Flat	
35	1	828-013-533/078	Cable Assembly (TA-U to TM-U)	A
	1	828-013-533/136	Cable Assembly (TA-U to TM-U)	B

A= Model 7400
B= Models 7420 and 7440
C= EE
R= Recommended Spare

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List 5-3: Electrical System, Side Stance, AC Lift (Sheet 2 of 2)

FIGURE 5-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	828-013-533/120	Cable Assembly (TA-U to TM-U)	C
36	1	828-013-533/079	Cable Assembly (TA-V to TM-V)	A
	1	828-013-533/137	Cable Assembly (TA-V to TM-V)	B
	1	828-013-533/121	Cable Assembly (TA-V to TM-V)	C
37	1	828-013-533/080	Cable Assembly (TA-W to TM-W)	A
	1	828-013-533/135	Cable Assembly (TA-W to TM-W)	B
	1	828-013-533/038	Cable Assembly (TA-W to TM-W)	C
38	1	1012123/001	Wire Assembly (JT2, JT3, and JBR to JS2) (Not Shown)	
39	2	5-010-004	Screw	
40	2	5-019-002	Washer, Lock	
41	1	1067508	Terminal Strip	

A= Model 7400
B= Models 7420 and 7440
C= EE
R= Recommended Spare

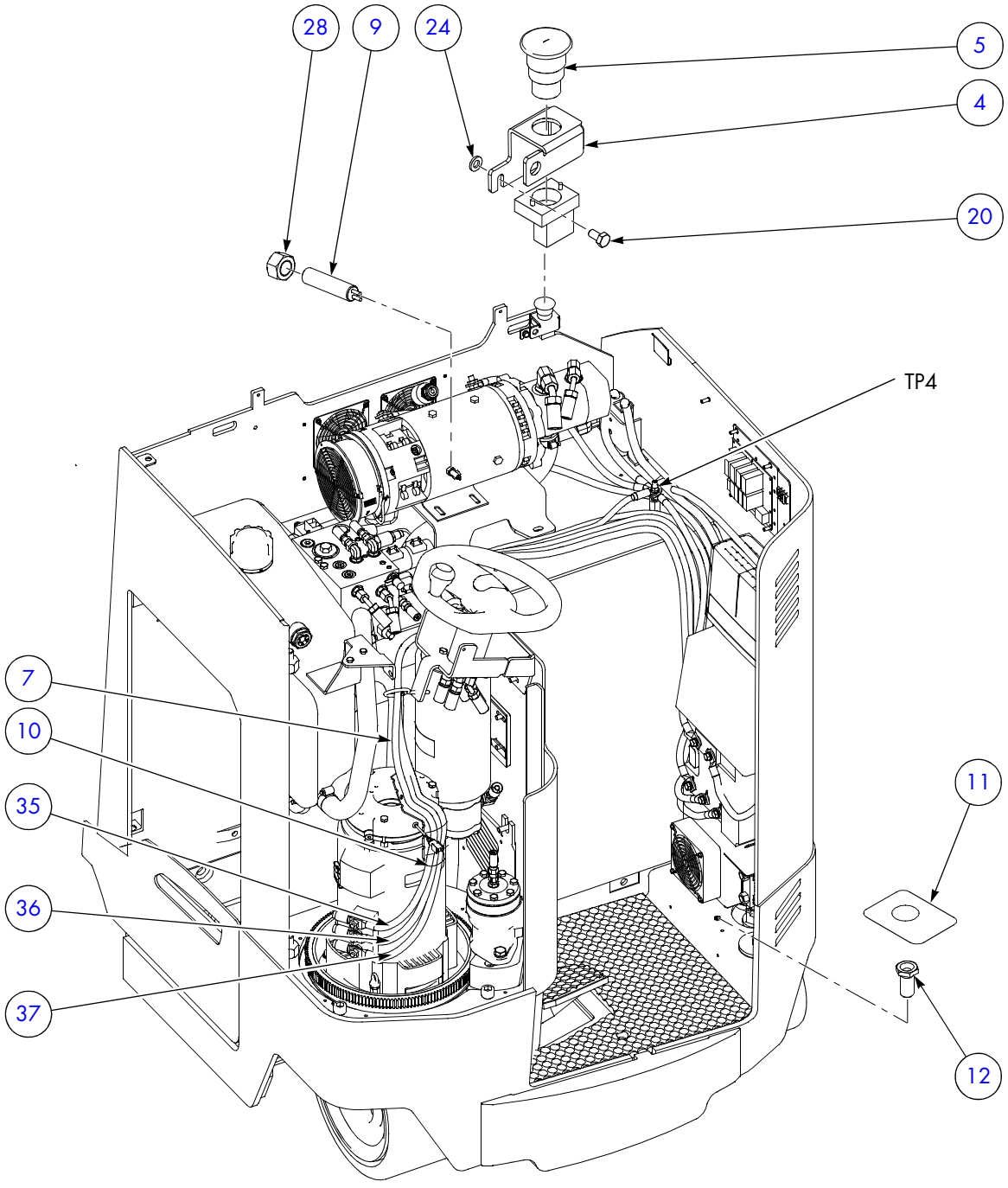
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Electrical System, Side Stance, DC Lift

Figure 5-4a: Electrical System, Side Stance, DC Lift

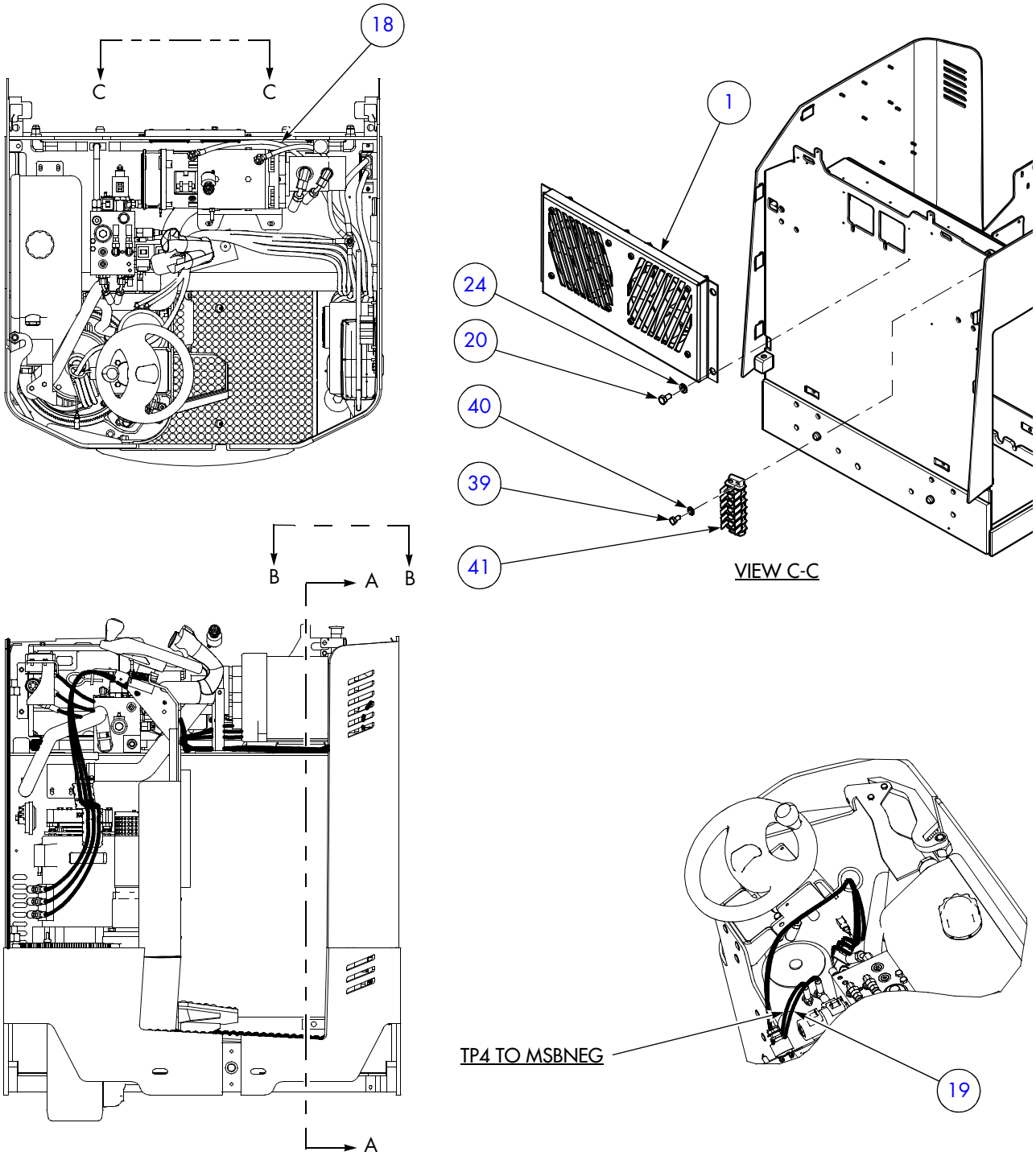


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Electrical System, Side Stance, DC Lift

Figure 5-4b: Electrical System, Side Stance, DC Lift

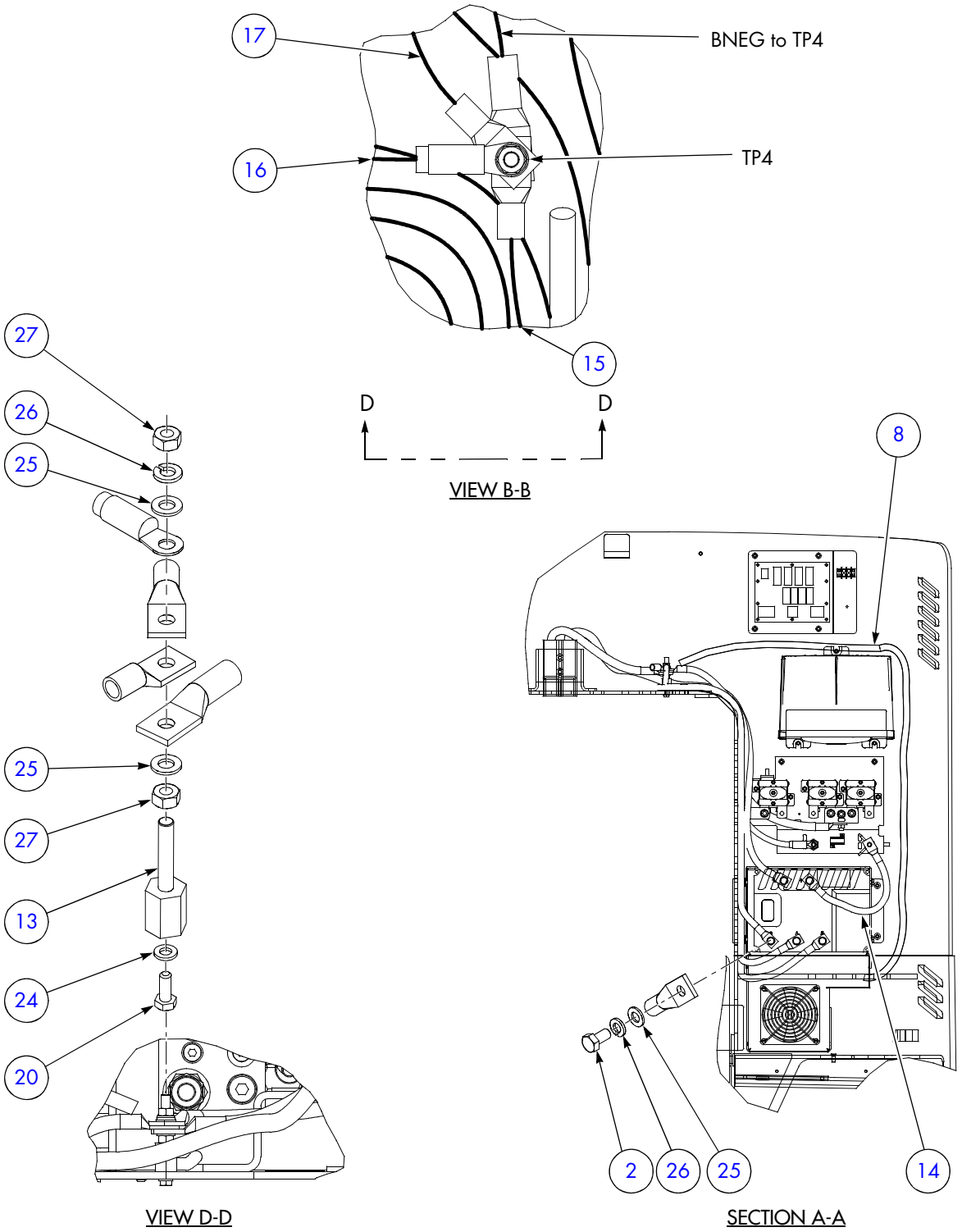


R1022989_C2, R1020111_A1, R1020115_A7, R1020111_A8 SHT 2 OF 3

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Electrical System, Side Stance, DC Lift

Figure 5-4c: Electrical System, Side Stance, DC Lift



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List 5-4: Electrical System, Side Stance, DC Lift

FIGURE 5-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1018882	Fan Assembly, Lift Motor Compartment, DC Lift (See Figure 5-30.)	
2	5	5-001-009	Screw	
4	1	1012075	Bracket, EPO Switch	
5	1	1078248	Switch, EPO	R
7	1	1052559/001	Cable Assembly, Drive Motor (includes: items 35 thru 38)	
8	1	1099983/001	Harness Assembly, Main, DC Lift, Side Stance	
9	1	1013789/001	Sensor, Temperature, DC Lift Motor	
10	AR	611-028	Cable Tie	
11	1	411-936	Label, ESD	
12	1	870-866	Jack, Banana, ESD	
13	1	7-861-002/005	Insulator, Standoff	
14	1	828-013-533/049	Cable Assembly (TA-BPOS to TP5)	
15	1	828-013-533/083	Cable Assembly (TA-BNEG to TP4)	
16	1	828-013-533/087	Cable Assembly (MSBNEG to TP4)	
17	1	828-013-533/088	Cable Assembly (LM-S1 to TP4)	
18	1	828-013-533/089	Cable Assembly (LM-A1 to LPC-2)	
19	1	828-013-533/090	Cable Assembly (MSPOS to TP2)	
20	3	5-001-001	Screw	
24	2	5-018-005	Washer, Flat	
25	7	5-018-006	Washer, Flat	
26	6	5-019-006	Washer, Lock	
27	2	5-015-005	Nut	
28	1	750-019	Nut	
35	1	828-013-533/120	Cable Assembly (TA-U to TM-U)	
36	1	828-013-533/121	Cable Assembly (TA-V to TM-V)	
37	1	828-013-533/038	Cable Assembly (TA-W to TM-W)	
38	1	1012123/001	Wire Assembly (JT2, JT3, and JBR to JS2) (Not Shown)	
39	2	5-010-040	Screw	
40	2	5-019-002	Washer, Lock	
41	1	1067508	Terminal Strip	

R= Recommended Spare

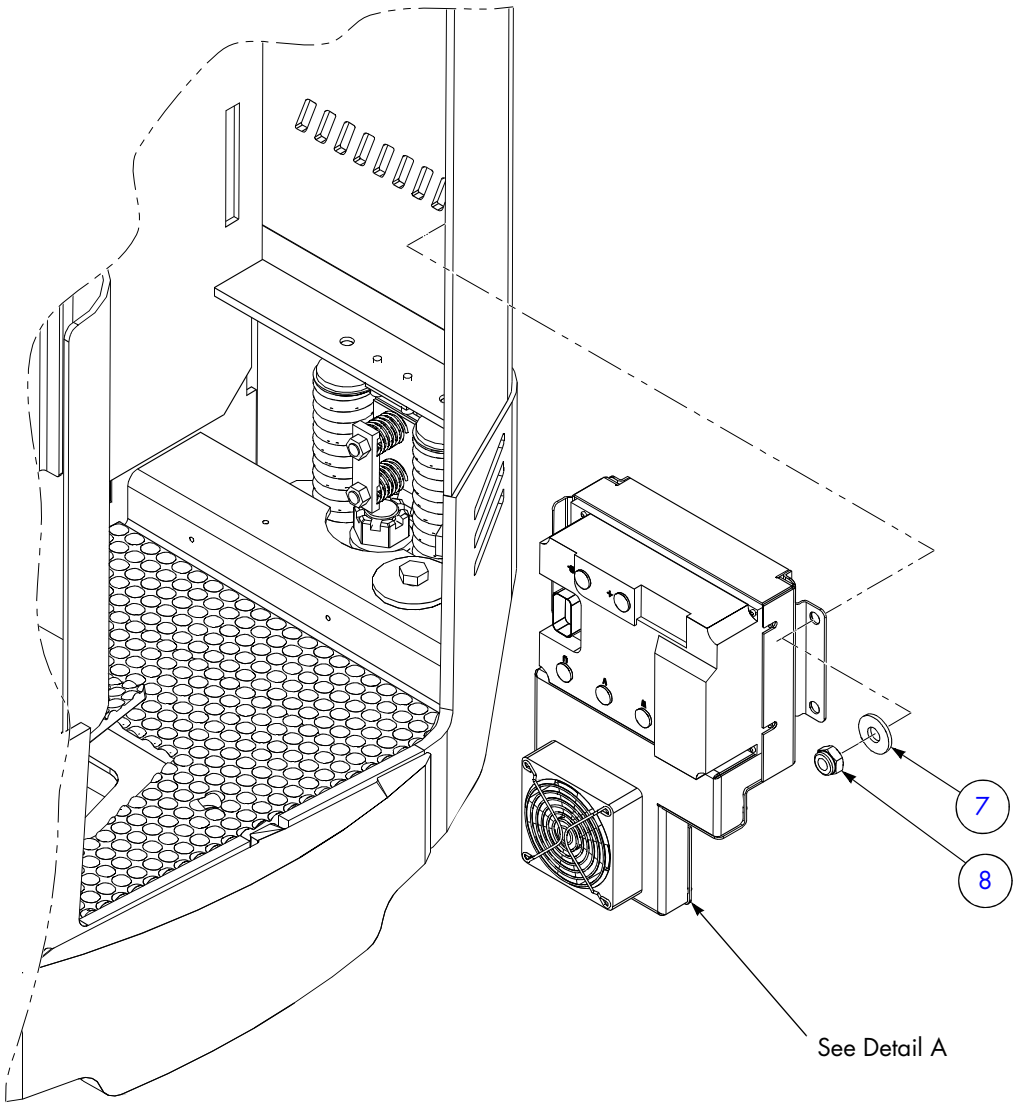
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Traction Power Amplifier Installation

Figure 5-5a: Traction Power Amplifier Installation

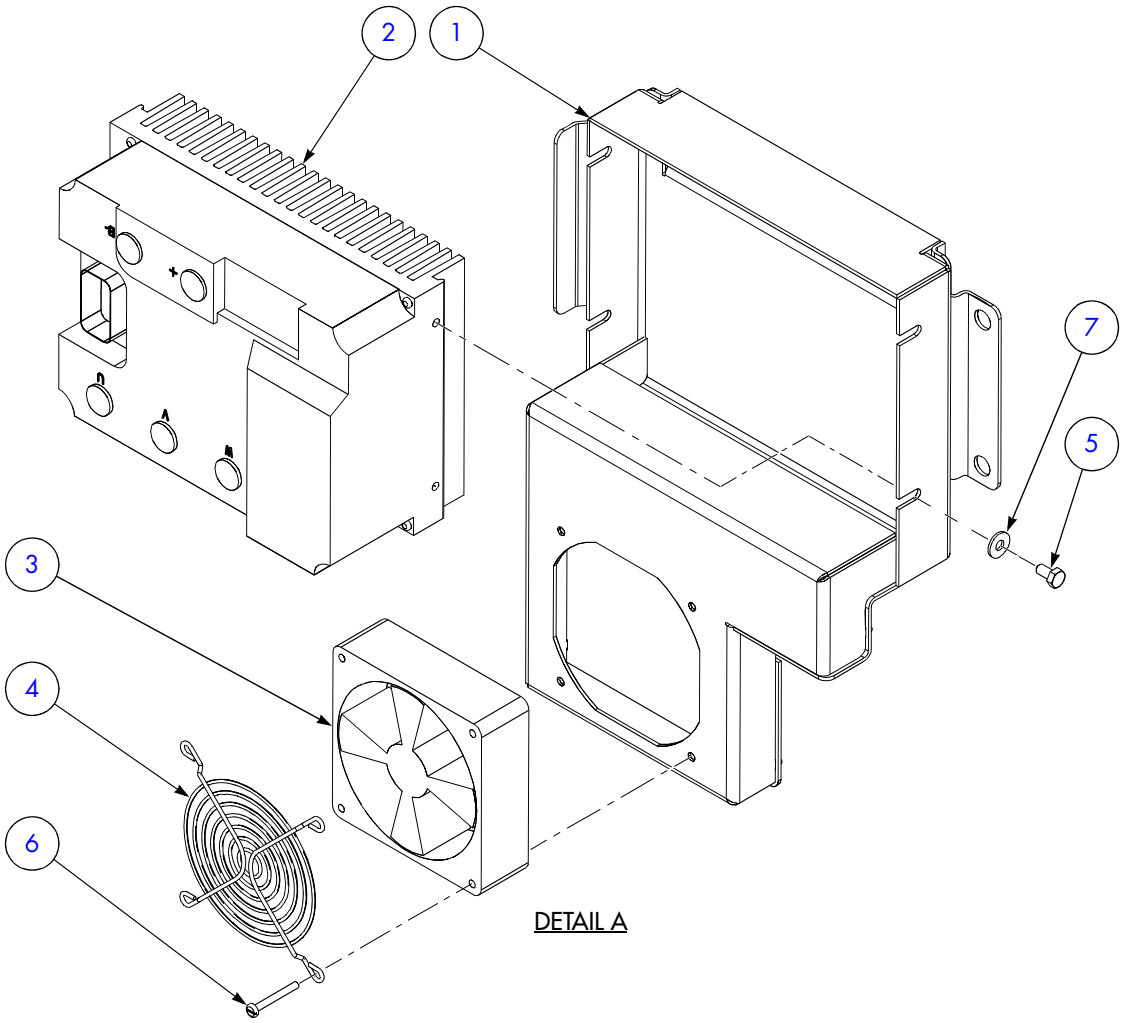


R1015918_A SHT 1 OF 2

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Traction Power Amplifier Installation

Figure 5-5b: Traction Power Amplifier Installation



R1014594_C SHT 2 OF 2

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List 5-5: Traction Power Amplifier Installation

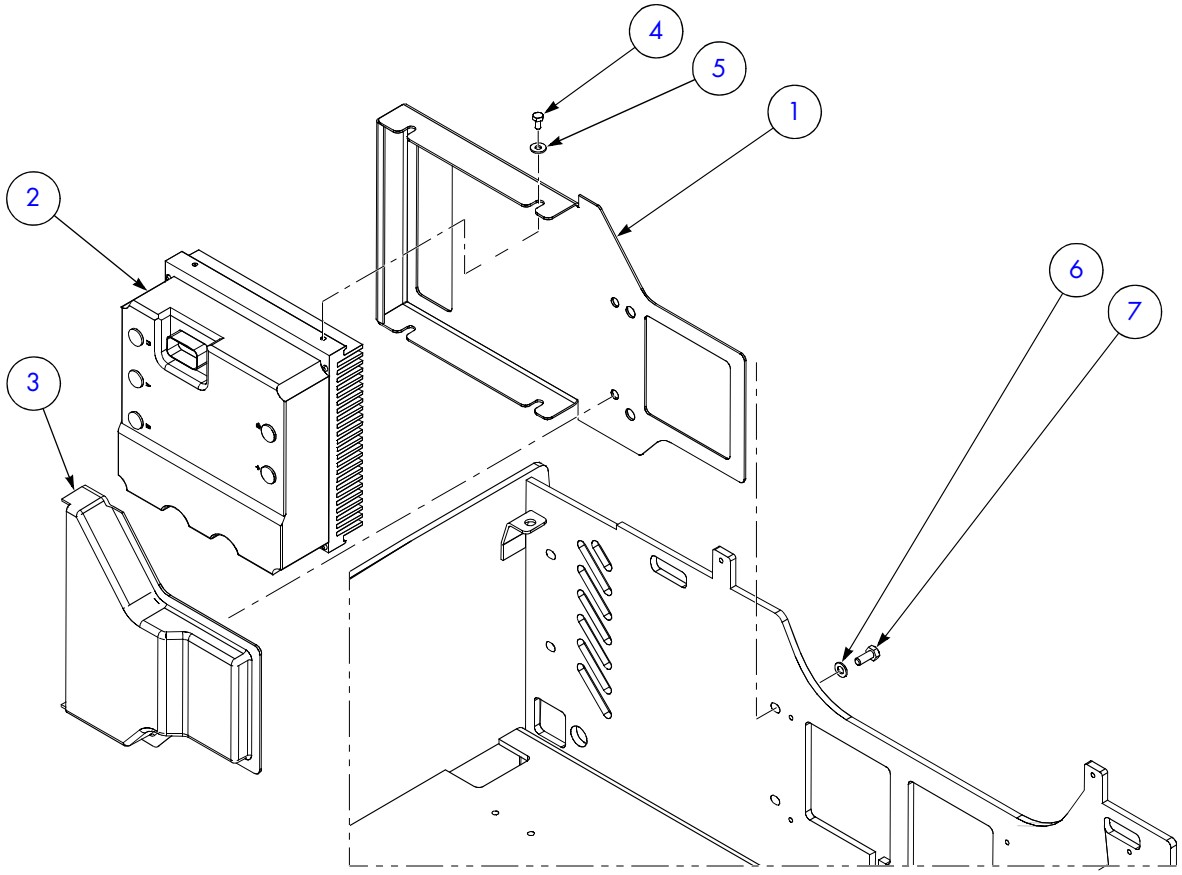
FIGURE 5-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1025319	Bracket Assembly, Traction Power Amplifier	
2	1	1014593/003	Power Amplifier, Traction	R
3	1	1016076/001	Fan, Traction Power Amplifier	
4	1	590-909	Guard, Fan	
5	4	5-001-001	Screw	
6	4	5-010-015	Screw	
7	6	7-771-206	Washer, Flat	
8	2	5-016-004	Nut, Nylon Locking	

R= Recommended Spare

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Lift Power Amplifier Installation

Figure 5-6: Lift Power Amplifier Installation



List 5-6: Lift Power Amplifier Installation

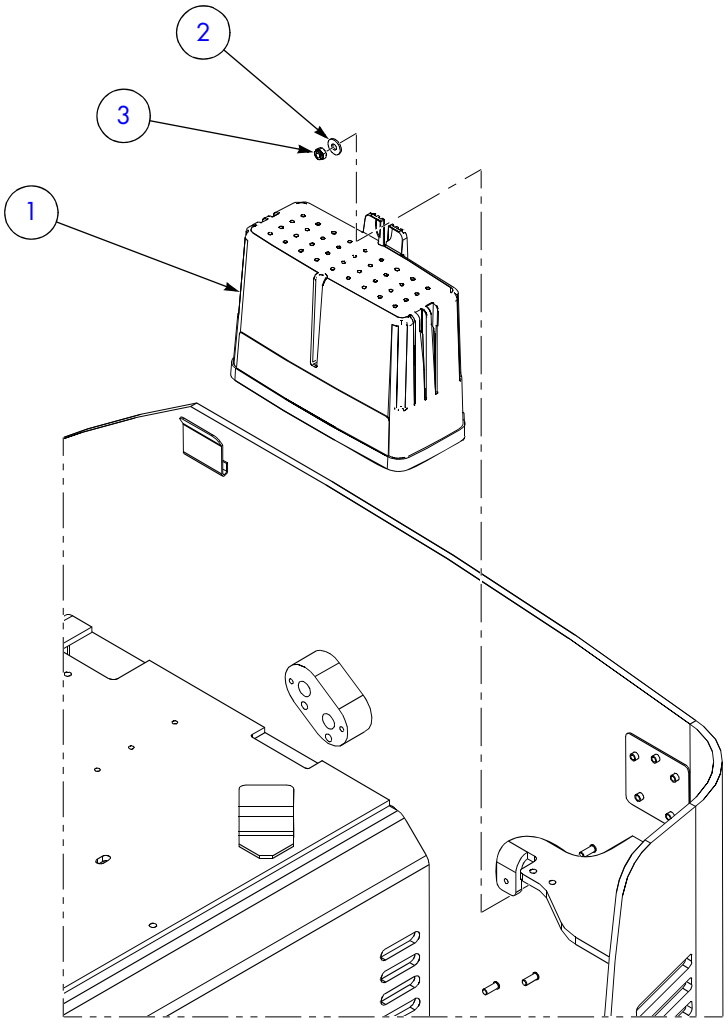
FIGURE 5-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1015208	Bracket Assembly, Lift Power Amplifier	
2	1	1015187/003	Power Amplifier, Lift	R
3	1	1015193	Cover, Fan	
4	4	5-001-001	Screw	
5	4	7-771-206	Washer, Flat	
6	4	5-018-006	Washer, Flat	
7	4	5-001-008	Screw	
8	2	5-016-004	Nut, Nylon Locking (Not Shown)	
9	1	5-003-016	Screw (Not Shown)	A

A= Models 7420 and 7440
R= Recommended Spare

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Vehicle Manager Installation

Figure 5-7: Vehicle Manager Installation



R1013855_B

List 5-7: Vehicle Manager Installation

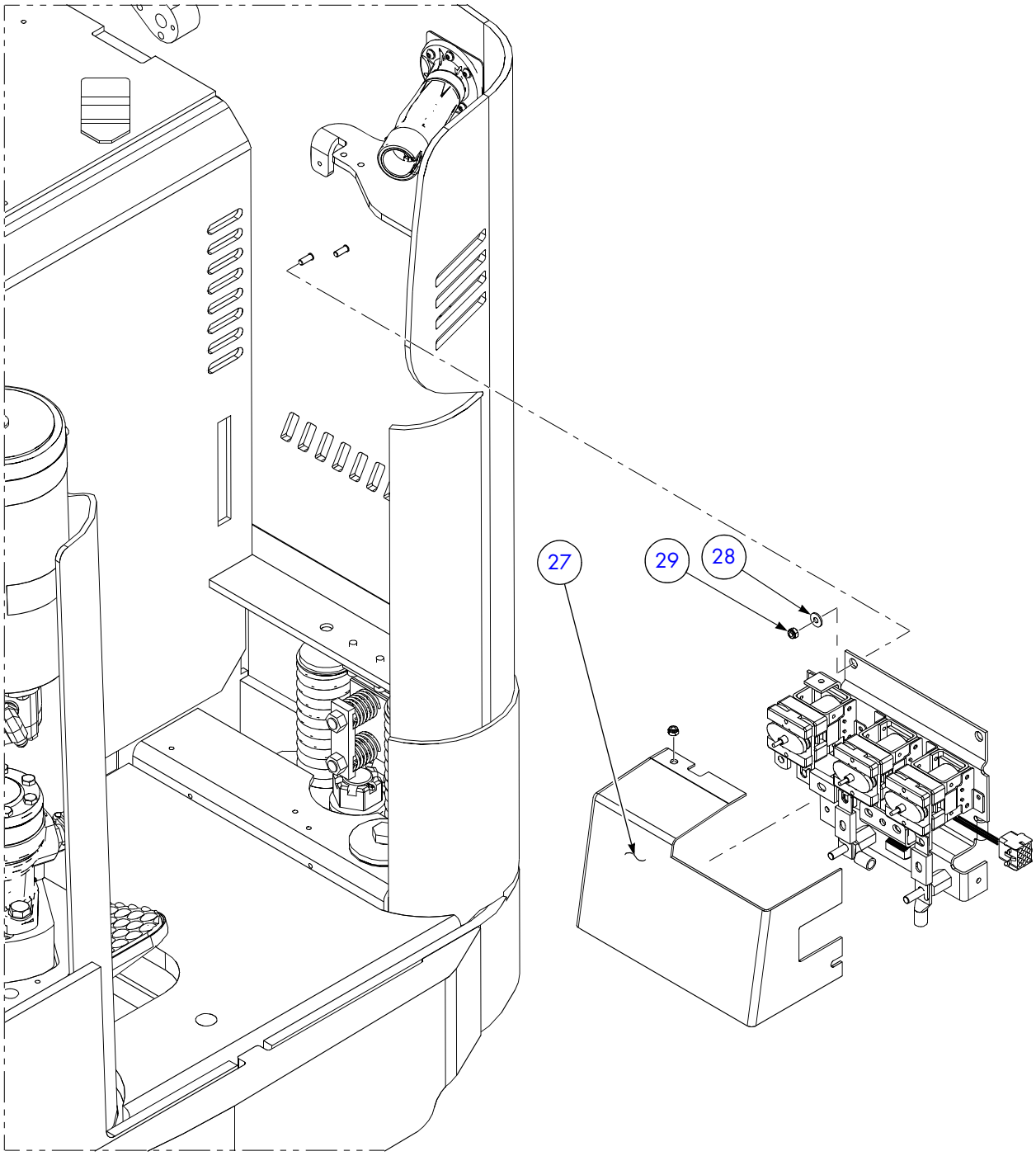
FIGURE 5-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1019283/006	Vehicle Manager Assembly	R
2	3	7-771-206	Washer, Flat	
3	3	5-016-004	Nut, Nylon Locking	

R= Recommended Spare

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Contactor Panel Installation, DC Lift

Figure 5-8a: Contactor Panel Installation, DC Lift

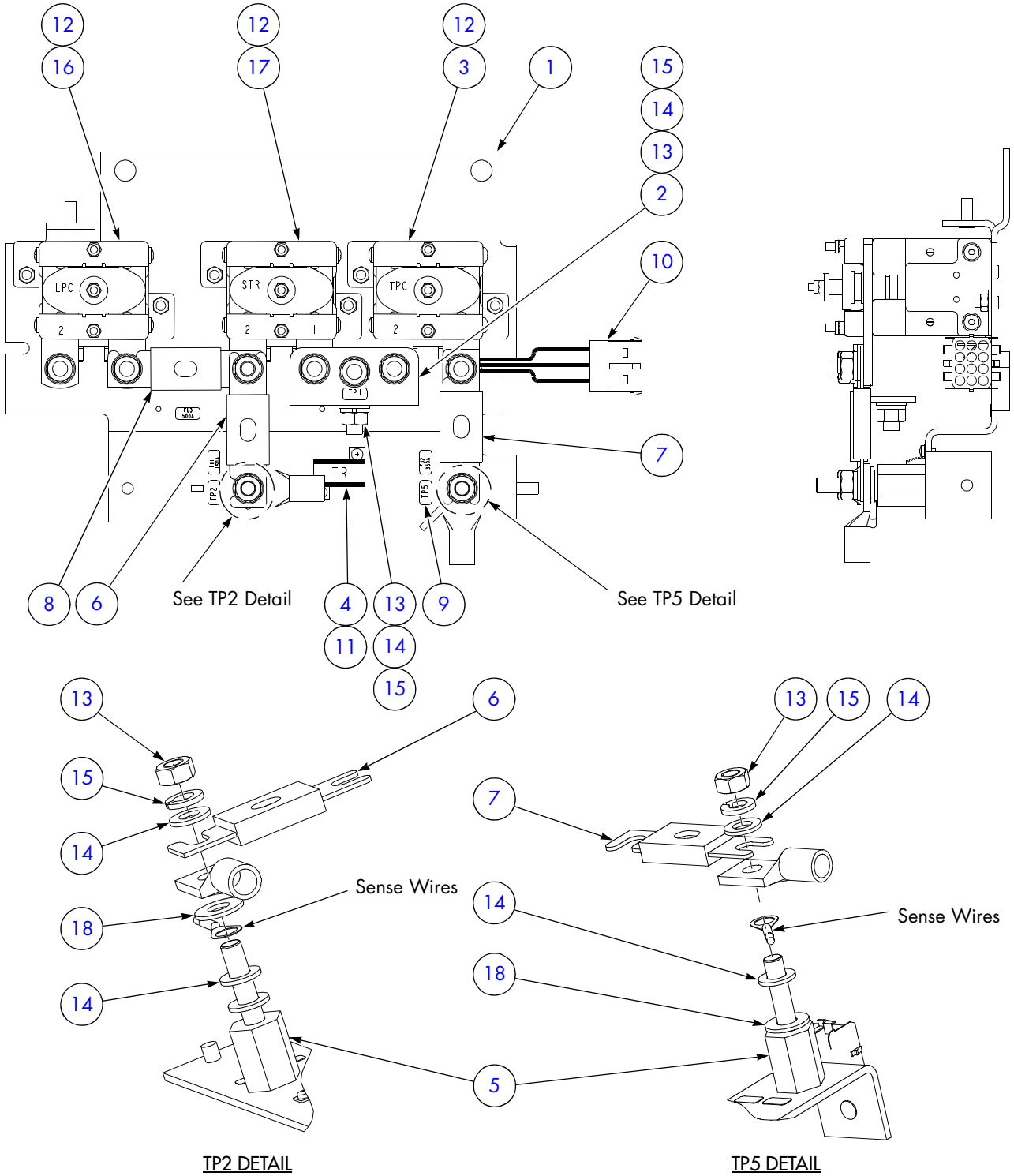


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Contactor Panel Installation, DC Lift

Figure 5-8b: Contactor Panel Installation, DC Lift

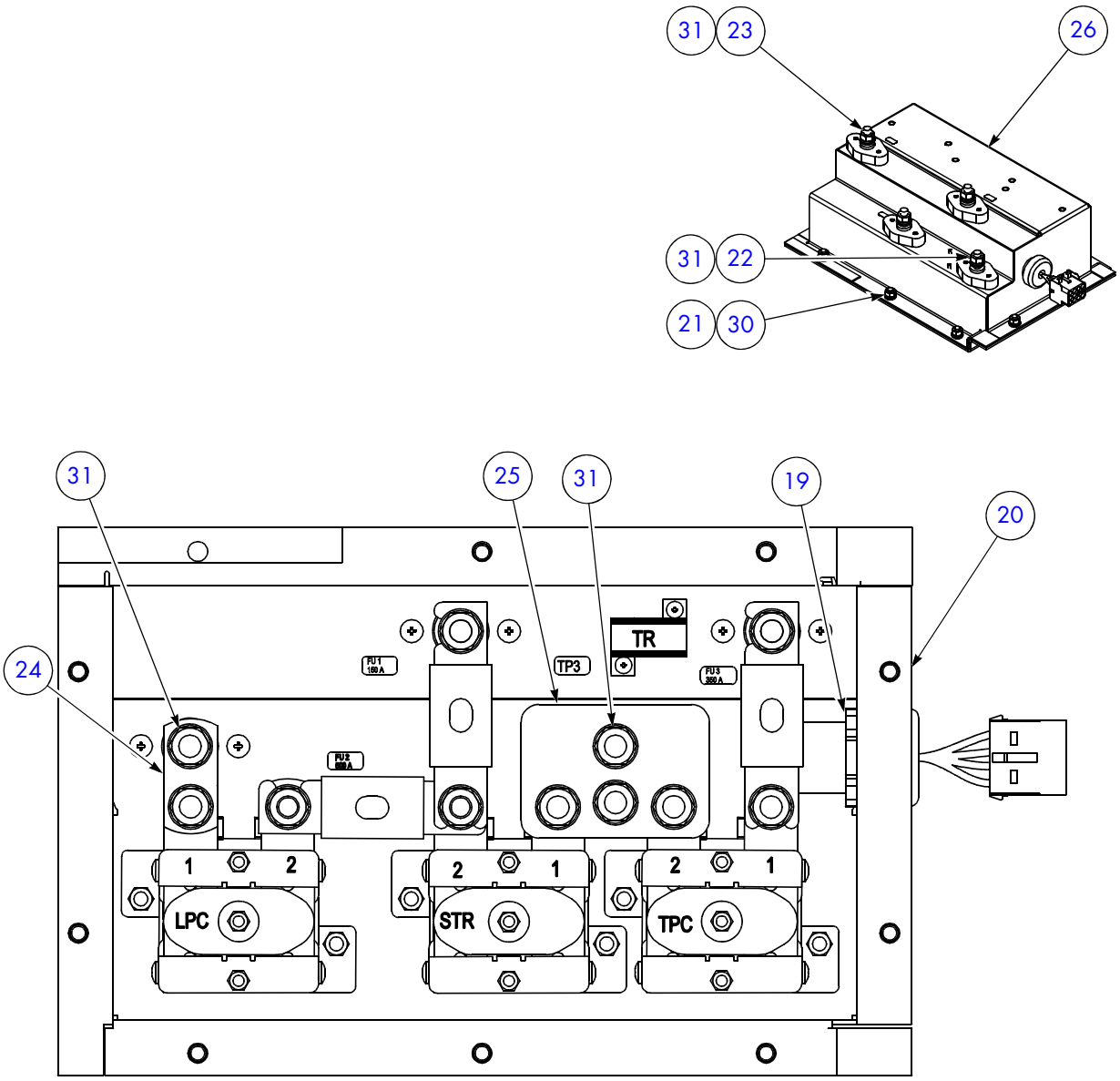


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Contactor Panel Installation, DC Lift

Figure 5-8c: Contactor Panel Installation, DC Lift



1018464_C1 SHT 3 OF 3

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List 5-8: Contactor Panel Installation, DC Lift

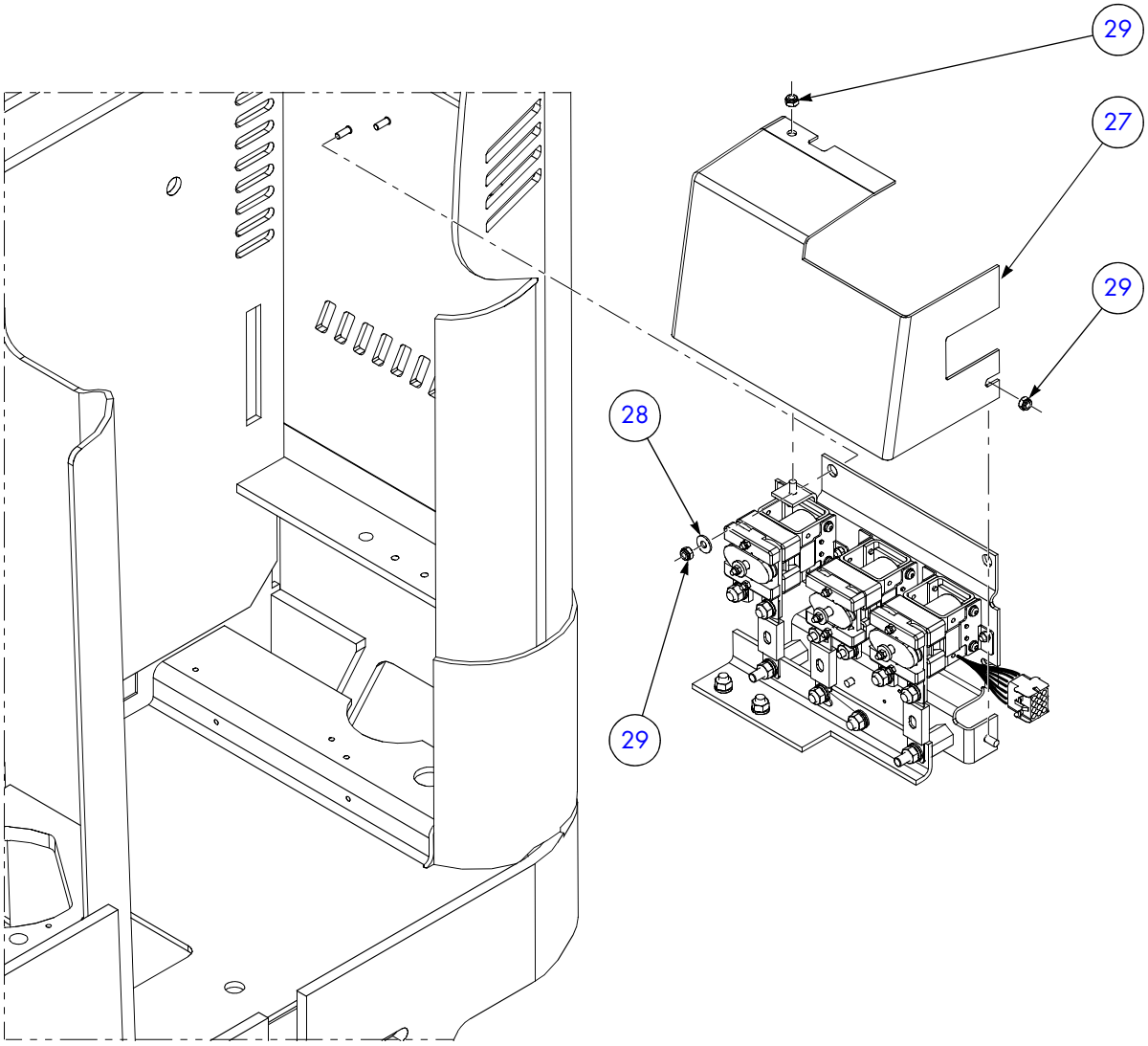
FIGURE 5-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1018334	Plate, Mounting, Contactor, DC Lift	A
	1	1027896	Plate, Mounting, Contactor, DC Lift	B
	1	1017939	Plate, Mounting, Contactor, DC Lift	C
2	1	1011156	Bus Bar Assembly, Contactor	A
3	1	1012353	Contactor, 300 amp, TPC (See Figure 5-10.)	
4	1	828-011-106/003	Resistor, Traction Power Amplifier Precharge (TR)	
5	2	7-861-002/004	Insulator, Standoff	A
6	1	590-587/109	Fuse (FU1), 150 amp	R
7	1	590-587/117	Fuse (FU2), 350 amp	R
8	1	590-587/119	Fuse (FU3), 500 amp	R
9	6	411-421/001	Decal, Label	
10	1	1020139/003	Harness, Contactor Panel, DC Lift	A
	1	1020139/002	Harness, Contactor Panel, DC Lift	B
	1	1020142/002	Harness, Contactor Panel, DC Lift	C
11	2	5-014-003	Screw	
12	7	5-015-003	Nut	
13	9	5-015-005	Nut	
14	7	5-018-006	Washer, Flat	
15	9	5-019-006	Washer, Lock	
16	1	1-105-153/100	Contactor, 300 amp, LPC, DC Lift (See Figure 5-10.)	
17	1	1-105-154/100	Contactor, 300 amp, STR, DC Lift (See Figure 5-10.)	
18	2	775-031	Washer	A
19	1	600-915/003	Nut	B, C
20	1	370-631/009	Cushion, Pad	B, C
21	8	7-742-007/004	Screw	B, C
22	2	223-001-087/005	Conductor, Feed thru	B, C
23	2	223-001-087/007	Conductor, Feed thru	B, C
24	2	1012088	Bus Bar Assembly, Contactor	B, C
25	1	1026689	Bus Bar Assembly, Contactor	B
26	1	1018436	Cover, Contactor, EE, DC Lift	B
	1	1017808	Cover, Contactor, EE, DC Lift	C
27	1	1012601	Cover, Contactor	A
28	2	7-771-206	Washer, Flat	
29	4	5-016-004	Nut, Nylon Locking	
30	10	5-018-005	Washer, Flat	
31	10	5-019-005	Washer, Lock	
32	1	1058217	Bus Bar Assembly, Contactor (Not Shown)	C

A= Standard
B= Side Stance, EE
C= Fore-Aft Stance, EE
R= Recommended Spare

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Contactor Panel Installation, AC Lift

Figure 5-9a: Contactor Panel Installation, AC Lift

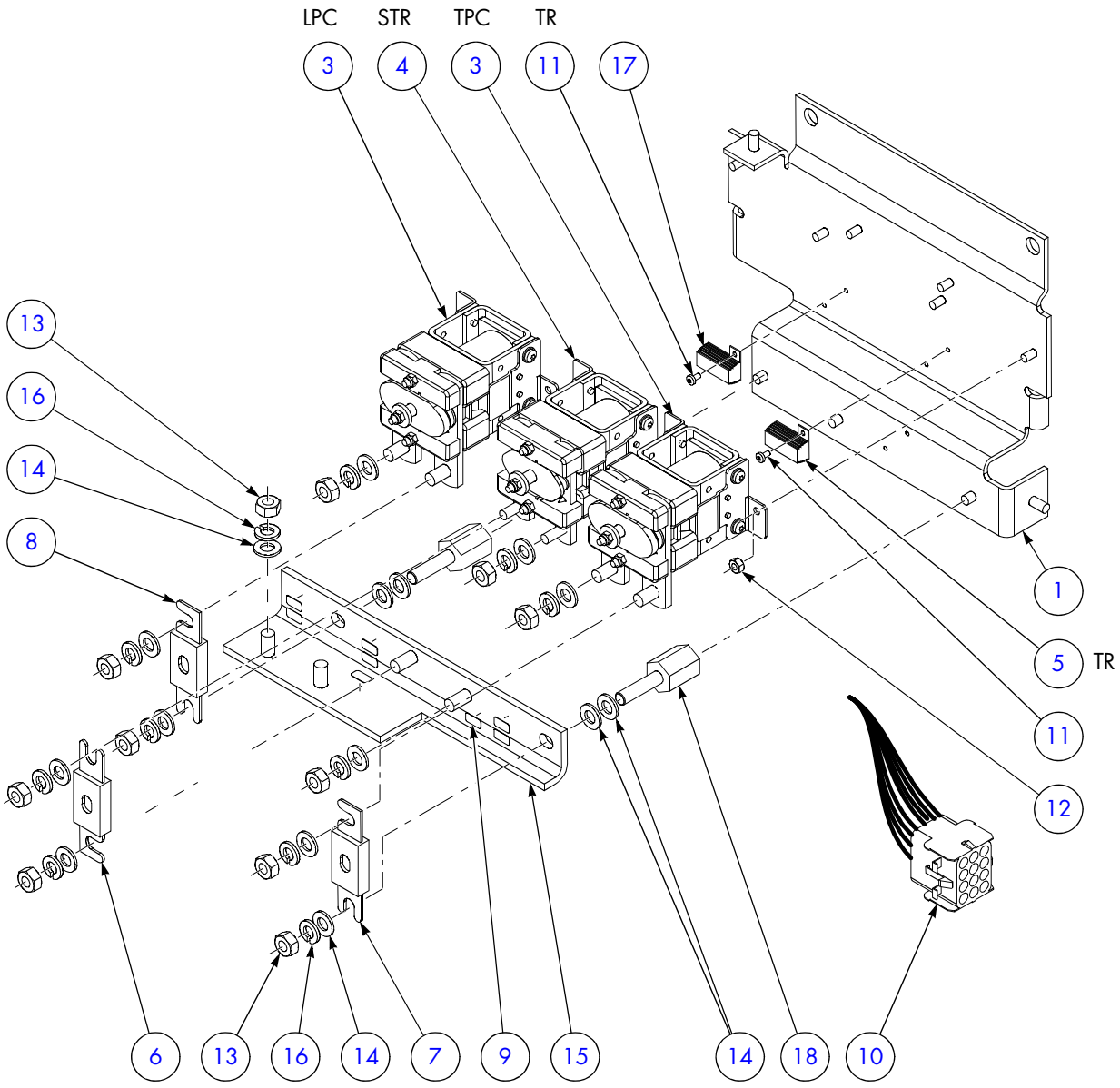


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Contactor Panel Installation, AC Lift

Figure 5-9b: Contactor Panel Installation, AC Lift



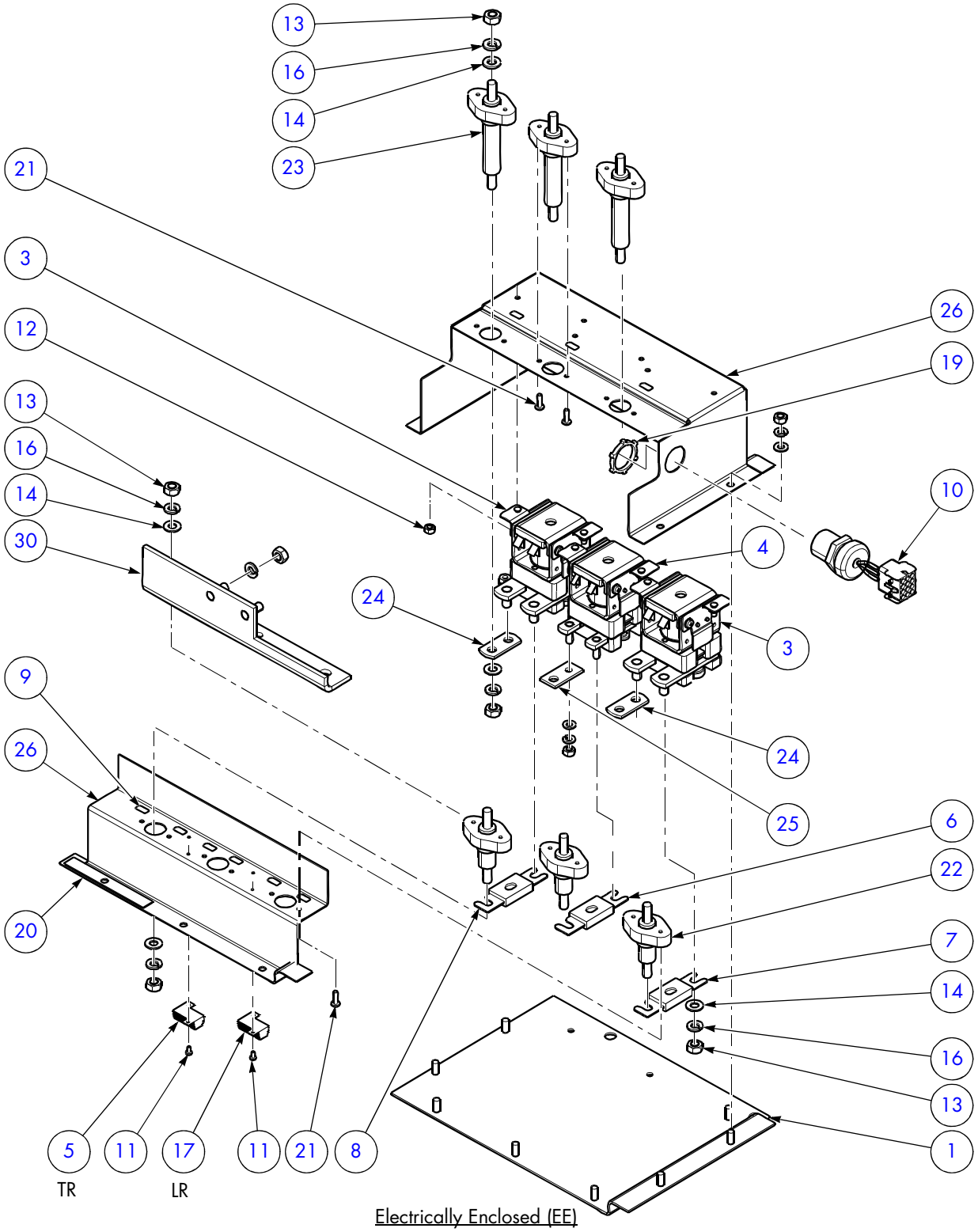
Standard

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Contactor Panel Installation, AC Lift

Figure 5-9c: Contactor Panel Installation, AC Lift



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List 5-9: Contactor Panel Installation, AC Lift

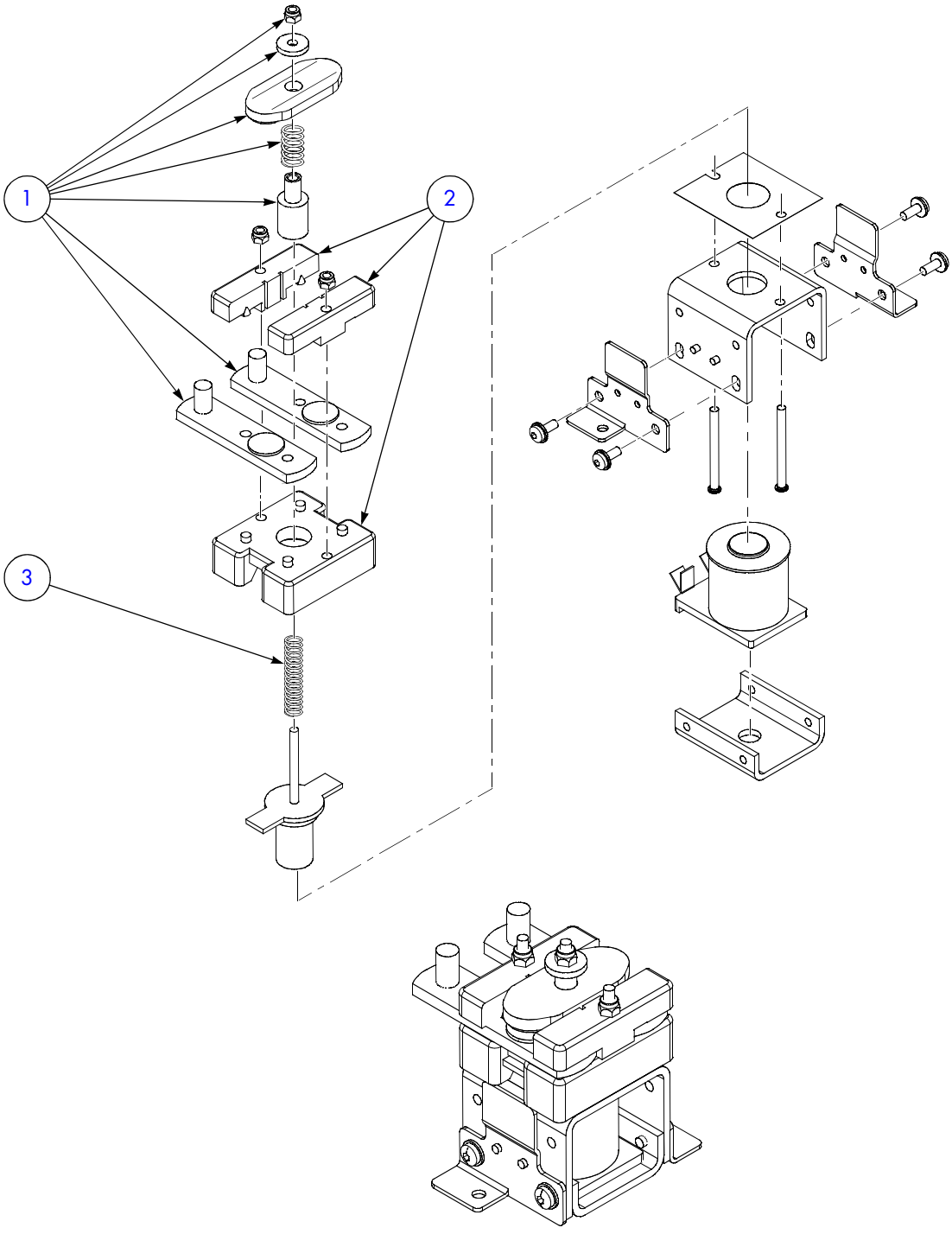
FIGURE 5-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1018334	Plate, Mounting, Contactor, AC Lift	A
	1	1027896	Plate, Mounting, Contactor, AC Lift	B
	1	1017939	Plate, Mounting, Contactor, AC Lift	C
3	2	1012353	Contactor, 300 amp, TPC and LPC (See Figure 5-10.)	
4	1	1-105-232/100	Contactor, 100 amp, STR (See Figure 5-10.)	
5	1	828-011-106/001	Resistor, Traction Power Amplifier Precharge (TR)	
6	1	590-587/109	Fuse (FU1), 150 amp	R
7	1	590-587/117	Fuse (FU2), 350 amp	R
8	1	590-587/119	Fuse (FU3), 500 amp	R
9	6	411-421/001	Decal, Label	
10	1	1020142/003	Harness, Contactor Panel, AC Lift	A
	1	1020139/002	Harness, Contactor Panel, AC Lift	B
	1	1020142/002	Harness, Contactor Panel, AC Lift	C
11	4	5-014-003	Screw	
12	6	5-015-003	Nut	
13	14	5-015-005	Nut	
14	12	5-018-006	Washer, Flat	
15	1	1041507	Bus Bar Assembly, Contactor	A
16	14	5-019-006	Washer, Lock	
17	1	828-011-106/002	Resistor, Lift Power Amplifier Precharge (LR)	
18	2	7-861-002/004	Insulator, Standoff	
19	1	600-915/003	Nut	B, C
20	1	370-631/009	Cushion, Pad	B, C
21	8	7-742-007/004	Screw	B, C
22	2	223-001-087/005	Conductor, Feed thru	B, C
23	2	223-001-087/007	Conductor, Feed thru	B, C
24	1	1012088	Bus Bar Assembly, Contactor	B, C
25	1	1017820	Bus Bar Assembly, Contactor	B, C
26	1	1018436	Cover, Contactor, EE	B
	1	1017808	Cover, Contactor, EE	C
27	1	1012601	Cover, Contactor	A
28	2	7-771-206	Washer, Flat	
29	4	5-016-004	Nut, Nylon Locking	
30	1	1058217	Bus Bar Assembly, Contactor	B

A= Standard
B= Side Stance, EE
C= Fore-Aft Stance, EE
R= Recommended Spare

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Contactor

Figure 5-10: Contactor



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List 5-10: Contactor

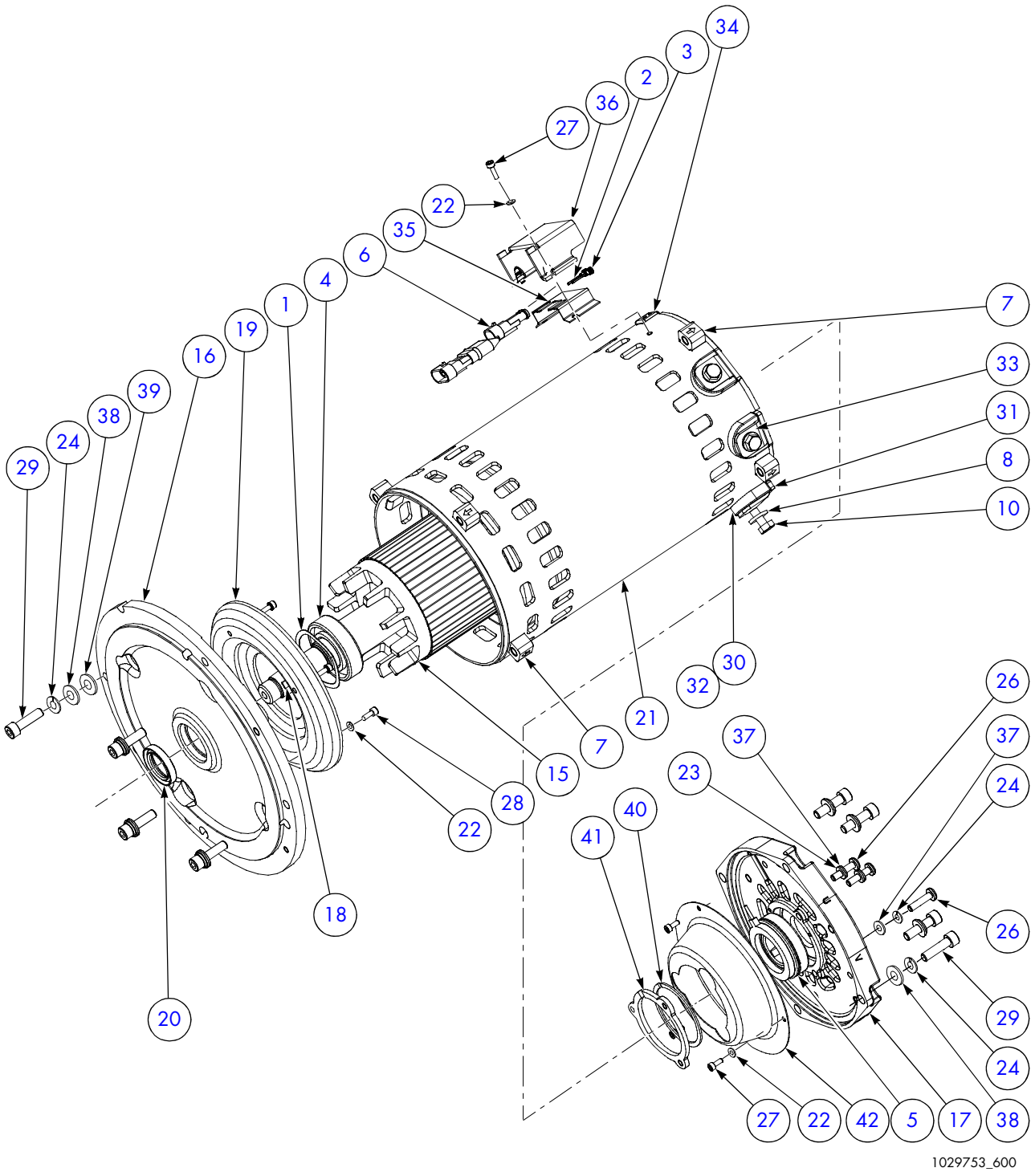
FIGURE 5-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1-105-153/100	Contactor, 300 amp, LPC (DC Lift)	A
	1	1-105-154/100	Contactor, 300 amp, STR (DC Lift)	A
	1	1-105-232/100	Contactor, 100 amp, STR (AC Lift)	B
	1	1012353	Contactor, 300 amp, TPC (all) and LPC (AC Lift)	A
1	1	1-105-129/111	Kit, Contactor Tip	A, R
	1	1-105-131/111	Kit, Contactor Tip	B, R
2	1	1-105-122/01	Kit, Guide and Insulator	
3	1	1-105-122/03	Spring, Main	R

A= 300 amp
B= 100 amp
R= Recommended Spare

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Drive Motor, AC (Danaher TSW)

Figure 5-11: Drive Motor, AC (Danaher TSW)



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List 5-11: Drive Motor, AC (Danaher TSW)

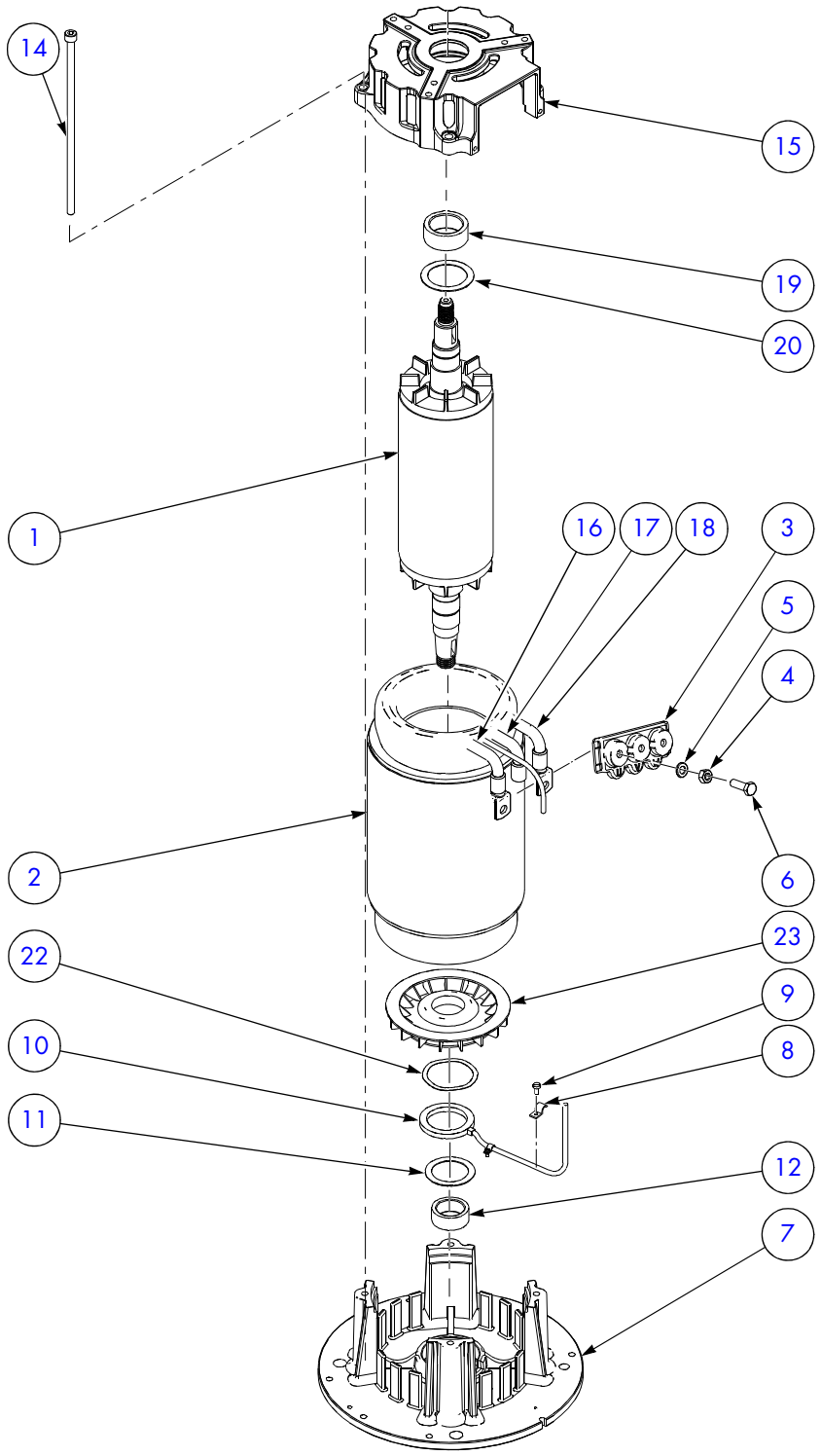
FIGURE 5-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1029754/600	Motor, Drive, AC (Danaher TSW)	A
		1029753/600	Motor, Drive, AC (Danaher TSW)	
1	1	1029753/41	Spring, Bearing Preload	
2	2	570-610/22	Contact, Tab	
3	2	570-610/23	Seal, Connector, Electrical	
4	1	570-251/514	Bearing	
5	1	570-610/06	Bearing, Motor Speed Encoder Assembly (Danaher)	R
6	1	570-610/21	Connector, Electrical	
7	8	1029753/09	Nut, Z, Stator	
8	1	1029753/13	Washer, Spring	
10	3	1029753/16	Screw	
11	3	611-029	Cable Tie (Not Shown)	
12	19 in.	1029753/31	Sleeve, Guard, Cable (Not Shown)	
13	1	1029753/32	Sleeve, Guard, Corrugated, Cable (Not Shown)	
14	1	1029753/33	Sleeve, Guard, Corrugated, Cable (Not Shown)	
15	1	1029753/04	Rotor, Drive Motor (Danaher TSW)	
16	1	1029753/03	End Bell, Drive End	
17	1	1029753/02	End Bell, Brake (Commutator End)	
18	2	570-610/30	Key, Woodruff	R
19	1	1029753/38	Guide, Air, Drive End	A
20	1	1029753/24	Seal, Shaft	
21	1	1029753/01	Stator, Drive Motor (Danaher TSW)	
22	9	1029753/26	Washer, Lock	
23	3	1029753/27	Washer, Lock	
24	8	1029753/28	Washer, Lock	
26	3	1029753/08	Screw	
27	5	1029753/11	Screw	
28	4	1029753/15	Screw	
29	8	1029753/20	Screw	
30	1	1029753/12	Block, Terminal, AC Drive Motor (Danaher)	
31	3	1029753/10	Cover, Terminal	
32	3	1029753/34	Nut, Terminal	
33	3	1029753/35	Tab, Terminal	
34	1	1029753/36	Outlet, Sensor Cable	
35	1	1029753/14	Grommet, Tab Connector	
36	1	1029753/19	Bracket, Sensor Connector	
37	3	1029753/18	Washer, Flat	
38	8	1029753/17	Washer, Flat	
39	4	1029753/40	Seal, Thread	
40	1	1029753/37	Ring, Retaining, Sensor Bearing	
41	1	1029753/39	Plate, Lock, Sensor Bearing	
42	1	1029753/42	Guide, Air, Brake End	A

A= EE Only
R= Recommended Spare

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Drive Motor, AC UL Class E (Sauer Danfoss)

Figure 5-12: Drive Motor, AC UL Class E (Sauer Danfoss)



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List 5-12: Drive Motor, AC UL Class E (Sauer Danfoss)

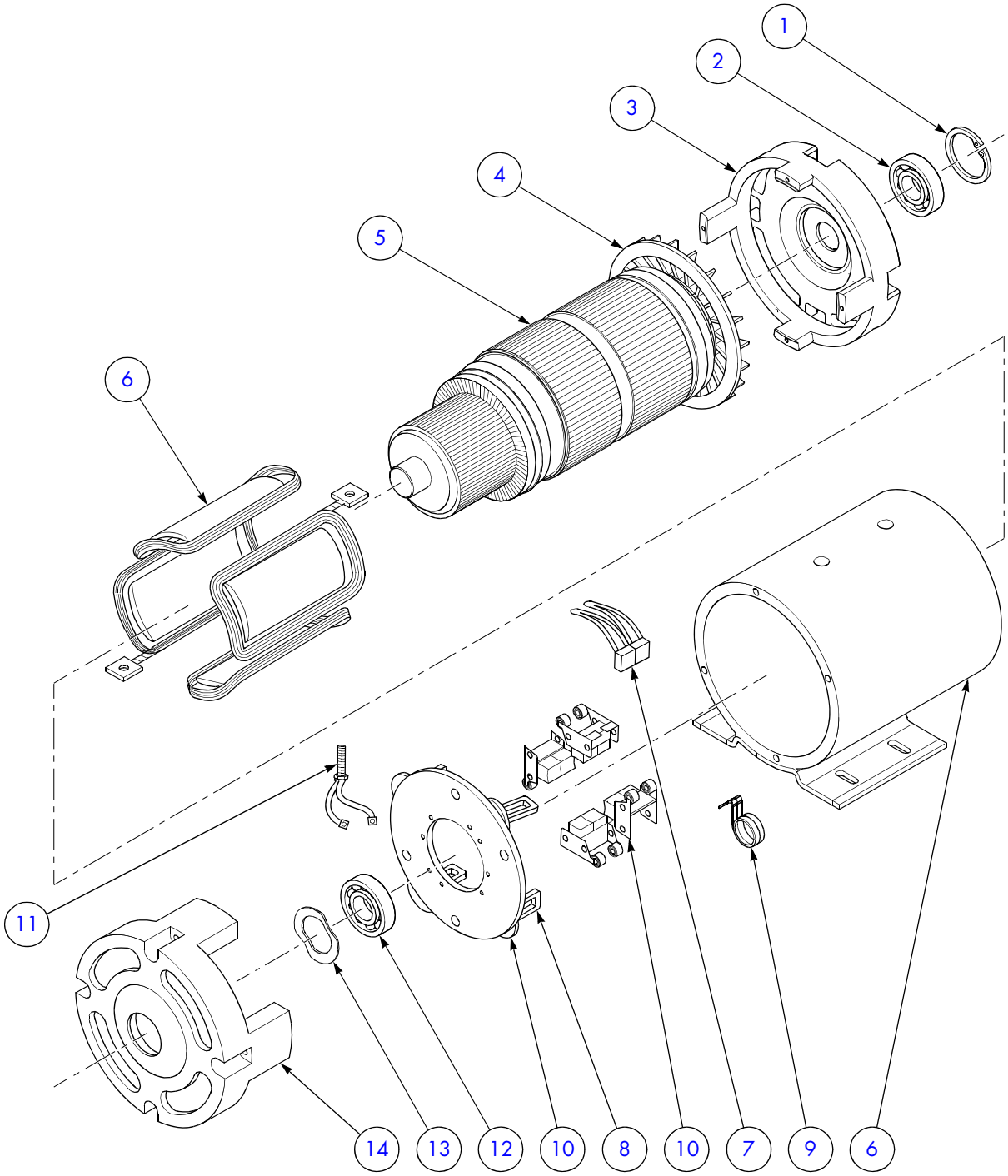
FIGURE 5-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1038442/700	Motor, Drive, AC, UL Class E (Sauer Danfoss)	
1	1	1038442/01	Rotor, Drive Motor (Sauer Danfoss)	
2	1	1038442/02	Stator, Drive Motor (Sauer Danfoss)	
3	1	1061862	Block, Terminal, AC Drive Motor (Sauer Danfoss)	
4	3	1036966/75	Nut	
5	3	1034060/77	Washer, Spring	
6	2	1034060/74	Screw	
7	1	1038442/06	End Bell, Drive End	
8	2	1038442/07	Clamp	
9	2	1038442/08	Screw, Slotted	
10	1	1038442/16	Bearing, Motor Speed Encoder Assembly (Sauer Danfoss)	R
11	1	1034060/85	O-Ring	R
12	1	1038442/09	Seal, Shaft	R
13	1	1019307/87	Washer, Spring (Not Shown)	
14	4	1038442/11	Screw	
15	1	1038442/12	End Bell, Brake (Commutator End)	
16	1	1052117/13	Sleeve, Crimp, U	
17	1	1052117/14	Sleeve, Crimp, V	
18	1	1052117/15	Sleeve, Crimp, W	
19	1	1038442/17	Bearing, Drive	R
20	1	1038442/18	Ring, Locking	
21	1	1038442/10	Ring, Locking (Not Shown)	
22	1	570-869/737	Bushing, Retaining	
23	1	570-869/736	Fan, Drive Motor, Internal (Sauer Danfoss)	

R= Recommended Spare

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Lift Motor, DC

Figure 5-13: Lift Motor, DC



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List 5-13: Lift Motor, DC

FIGURE 5-13 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1008685/500	Motor, Lift, DC	
		1019386/500	Motor, Lift, DC, UL Class EE	A
1	1	570-427/513	Ring, Retaining	
2	1	570-240/215	Bearing, Drive End	R
3	1	570-314/511	End Bell, Drive End, DC Lift Motor	
4	1	570-450/511	Fan, Motor, DC Lift	
5	1	1008685/515	Armature and Fan Assembly (includes: item 4)	
6	1	1008685/516	Frame and Field Assembly	
7	1	570-604/512	Brush Set, DC Lift Motor	R
8	1	1008685/517	Indicator, Brush Wear	R
9	2	570-446/516	Spring Set, Brush	R
10	1	1008685/514	Brush Holder Assembly, DC Lift Motor	
11	1	1008685/518	Kit, Lead Assembly	
12	1	570-445/215	Bearing, Motor, DC Lift	R
13	1	570-252/518	Washer, Wavy	
14	1	1008685/519	End Bell, Commutator End, DC Lift Motor	
15	1	1019637	Deflector, Heat (Not Shown)	A
16	1	1019653	Deflector, Heat (Not Shown)	A
17	1	1019654	Deflector, Heat (Not Shown)	A
18	1	1004811	Brush Band, Drive End (Not Shown)	A
	1	1019386/01	Brush Band, Commutator End (Not Shown)	A

A= UL Class EE
R= Recommended Spare

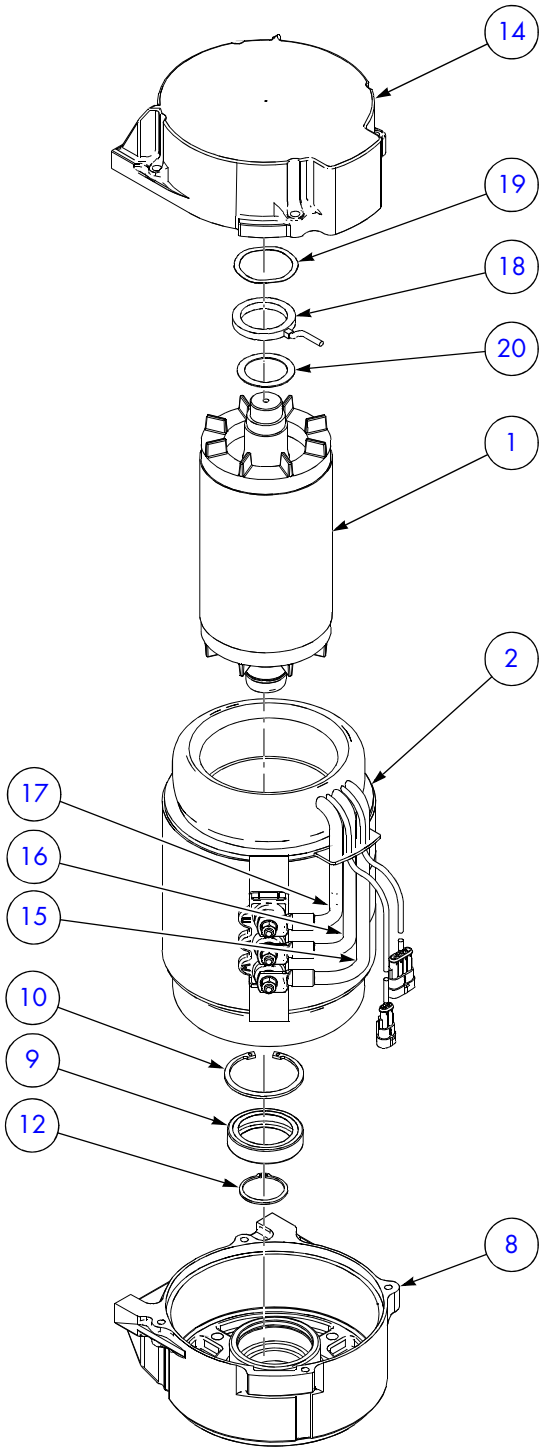
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Lift Motor, AC (Sauer Danfoss)

Figure 5-14a: Lift Motor, AC (Sauer Danfoss)

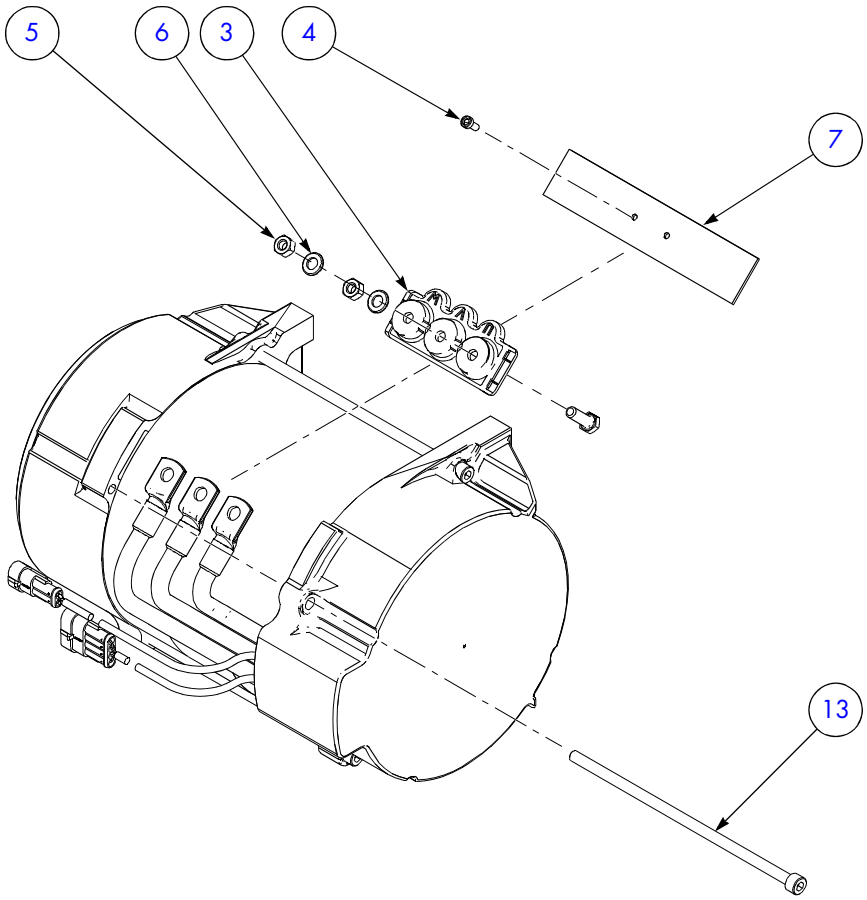


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Lift Motor, AC (Sauer Danfoss)

Figure 5-14b: Lift Motor, AC (Sauer Danfoss)



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List 5-14: Lift Motor, AC (Sauer Danfoss)

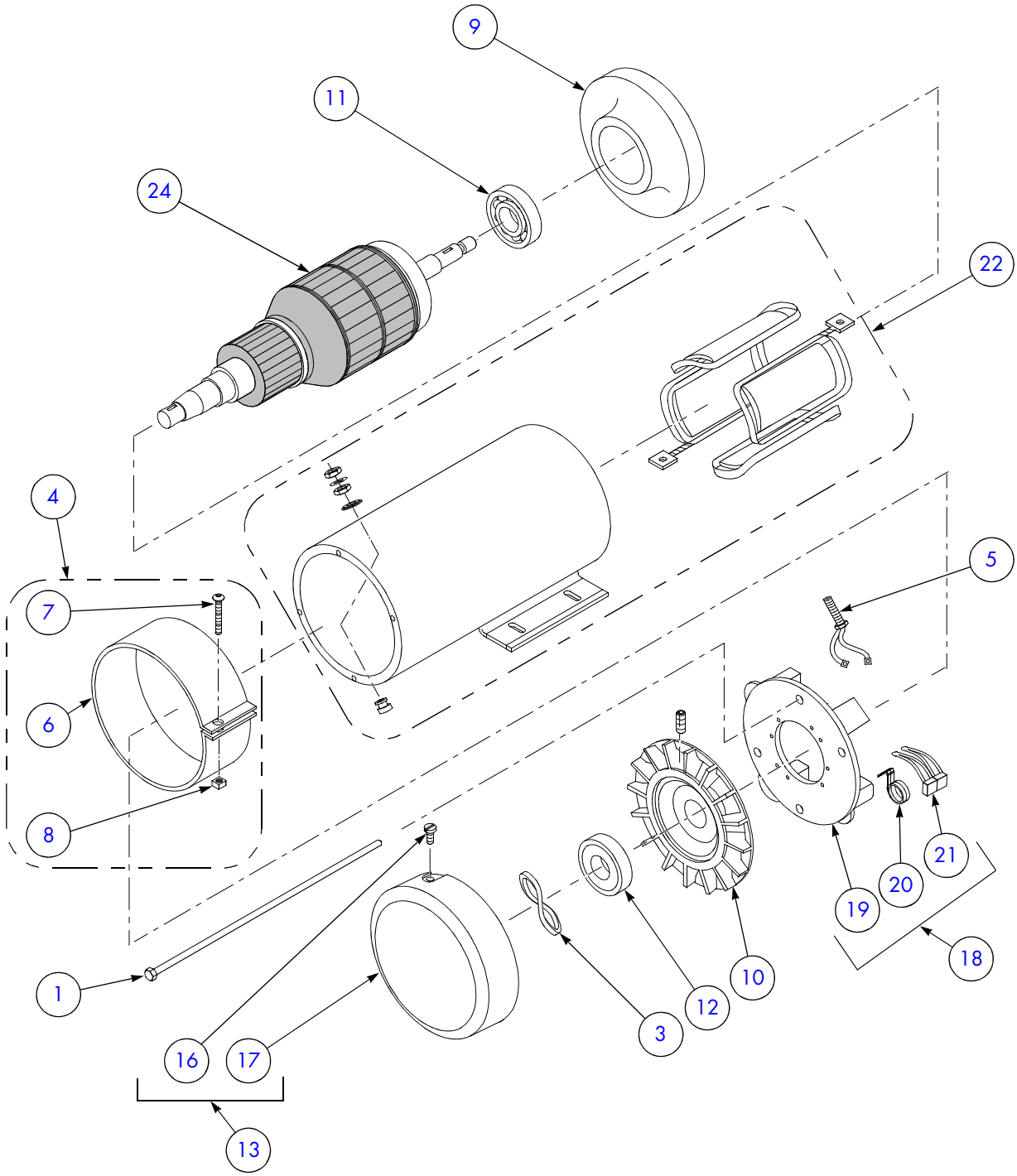
FIGURE 5-14 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1052117/700	Motor, Lift, AC, UL Class E (Sauer Danfoss)	
		1058359/700	Motor, Lift, AC, UL Class EE (Sauer Danfoss)	
1	1	1052117/01	Rotor, Lift Motor (Sauer Danfoss)	
2	1	1052117/02	Stator, Lift Motor (Sauer Danfoss)	
3	1	1052117/03	Block, Terminal, AC Lift Motor (Sauer Danfoss)	
4	2	1052117/04	Screw	
5	3	1034060/75	Nut	
6	3	1034060/77	Washer, Spring	
7	1	1052117/05	Terminal Board, Bottom	
8	1	1052117/06	End Bell, Drive End, AC Lift Motor (Sauer Danfoss)	
9	1	1052117/07	Bearing, Drive	R
10	1	1052117/08	Ring, Locking	
11	1	1052117/09	Seal, Shaft (Not Shown)	R
12	1	1052117/10	Ring, Locking	
13	4	1052117/11	Screw	
14	1	1052117/12	End Bell, Non Drive End, AC Lift Motor (Sauer Danfoss)	
15	1	1052117/13	Sleeve, Crimp, U	
16	1	1052117/14	Sleeve, Crimp, V	
17	1	1052117/15	Sleeve, Crimp, W	
18	1	1052117/16	Bearing, Motor Speed Encoder Assembly (Sauer Danfoss)	R
19	1	1019307/87	Washer, Spring	
20	1	1034060/85	O-Ring	R

R= Recommended Spare

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Auxiliary Motor (DC Lift Only)

Figure 5-15: Auxiliary Motor (DC Lift Only)



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List 5-15: Auxiliary Motor (DC Lift Only)

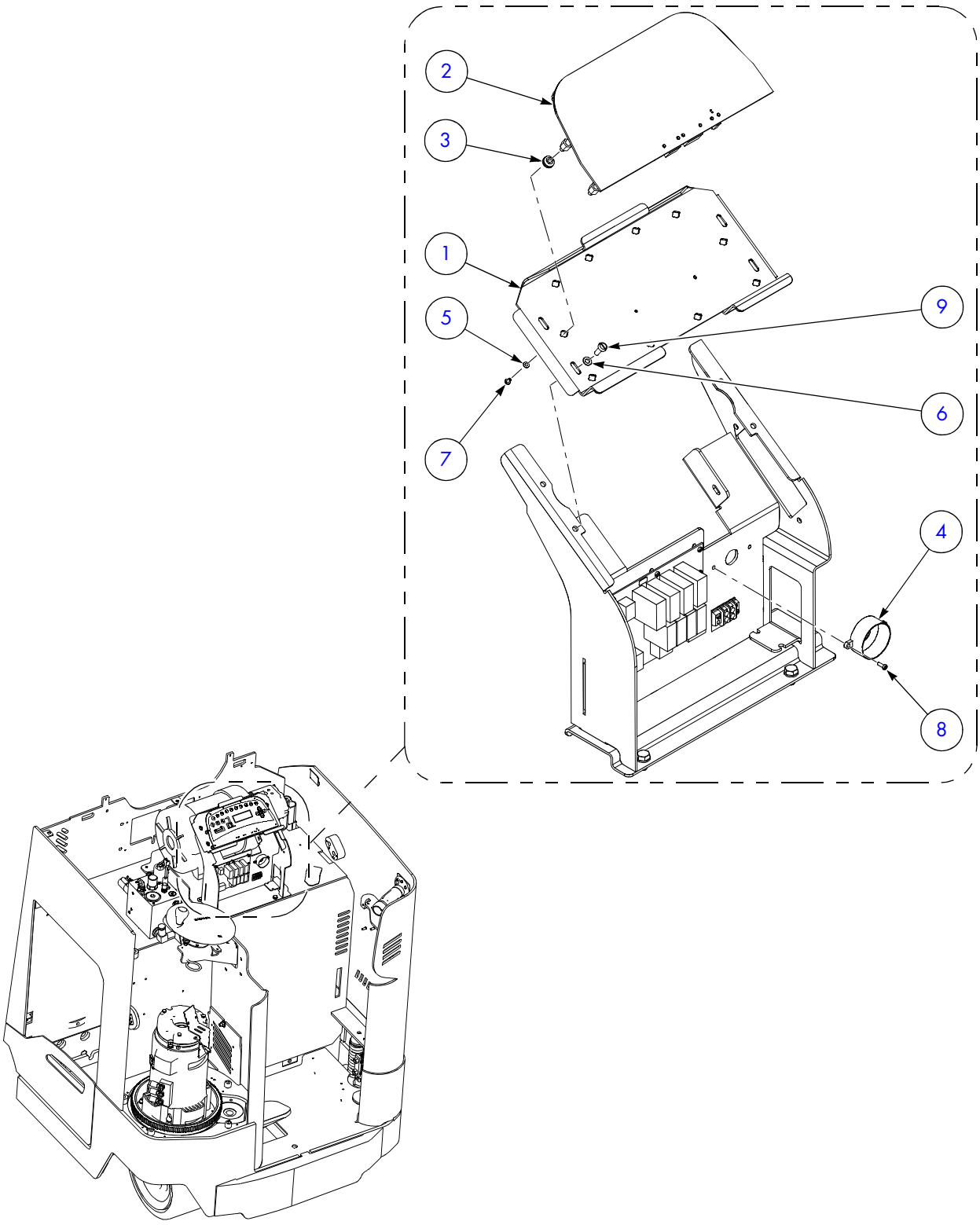
FIGURE 5-15 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1020545/450	Auxiliary Motor	
1	2	1020545/465	Bolt	
2	1	1020545/466	Plug (Not Shown)	
3	1	570-358/477	Washer, Spring	
4	2	570-358/468	Cover Assembly, Brush (includes: items 6, 7, and 8)	
5	2	1020545/468	Stud Weldment	
6	1	1020545/469	Cover, Brush	
7	1	1020545/470	Screw	
8	1	1020545/471	Nut	
9	1	570-358/465	End Bell, Drive End, DC Auxiliary Motor	
10	1	570-379/416	Fan, Auxiliary Motor (Internal)	
11	1	570-358/452	Bearing, Auxiliary Motor, Drive End	R
12	1	570-358/453	Bearing, Auxiliary Motor, Commutator End	R
13	1	1020545/476	End Bell, Commutator End, Auxiliary Motor, Complete (includes:)	
16	4	1020545/479	Screw	
17	1	1020545/480	Cover, Commutator	
18	1	1020545/481	Brush Holder Assembly, Auxiliary Motor, Complete (includes:)	
19	1	1020545/482	Brush Holder Assembly, Auxiliary Motor	
20	4	1020545/483	Spring, Brush	R
21	4	570-358/461	Brush Assembly, Auxiliary Motor	R
22	1	1020545/485	Field Winding, Auxiliary Motor	
24	1	1020545/487	Armature Assembly	
25	1	1041423	Kit, Brush Band, 3-Piece, UL Type EE Only (Not Shown)	

R= Recommended Spare

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Operator Display Installation, Fore-Aft

Figure 5-16: Operator Display Installation, Fore-Aft



R1017593_B1, R1017593_B2

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List 5-16: Operator Display Installation, Fore-Aft

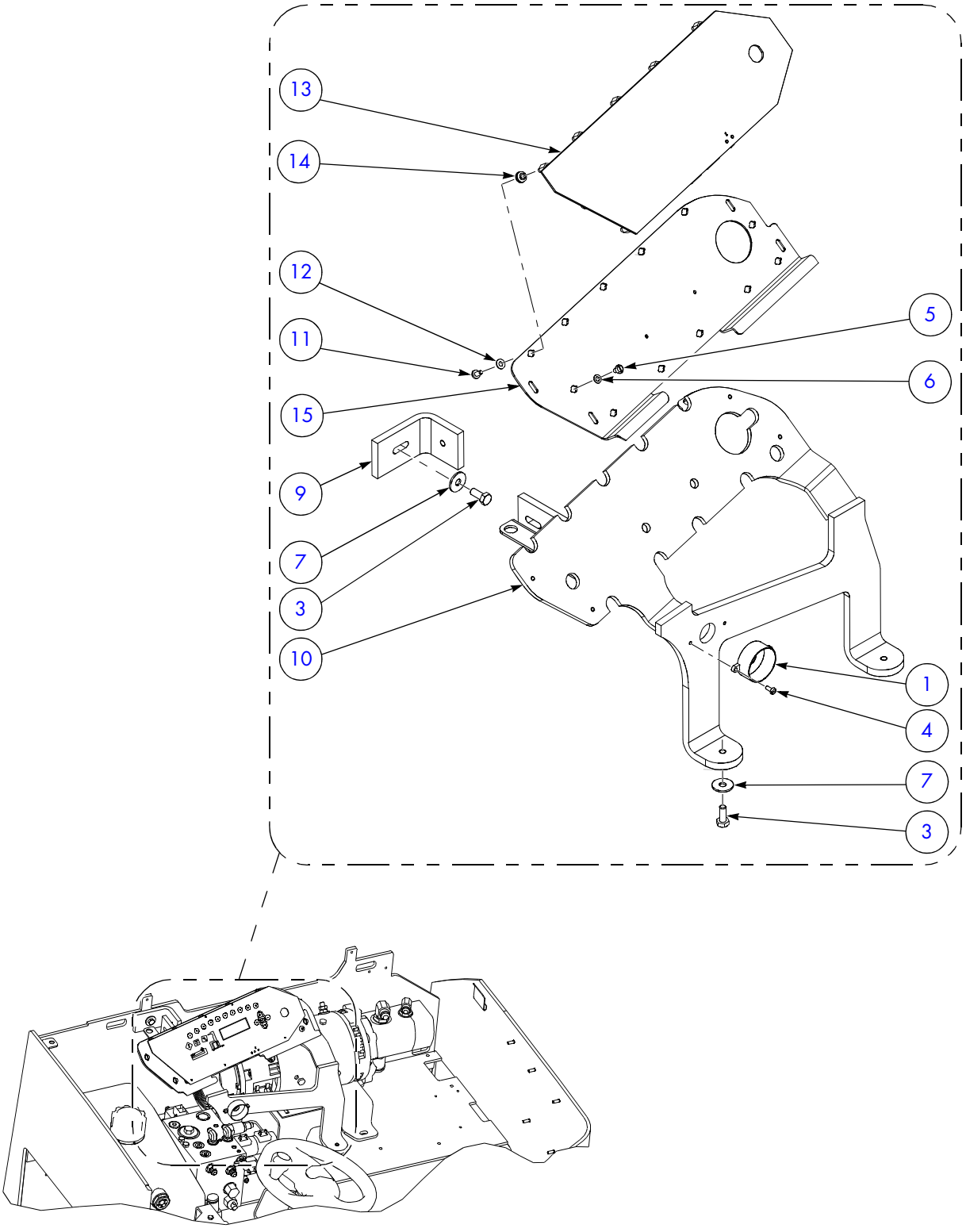
FIGURE 5-16 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1023911	Bracket, Operator Display, Fore-Aft	
2	1	1009195/006	Display, Operator, Fore-Aft	R
3	10	1017407	Grommet	
4	1	590-632	Horn, Piezo	
5	12	5-018-002	Washer, Flat	
6	4	5-018-004	Washer, Flat	
7	12	5-010-004	Screw	
8	2	5-010-005	Screw	
9	4	5-010-037	Screw	

R= Recommended Spare

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Operator Display Installation, Side Stance, DC Lift

Figure 5-17: Operator Display Installation, Side Stance, DC Lift



R1017804_C2, R1017804_C1

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List 5-17: Operator Display Installation, Side Stance, DC Lift

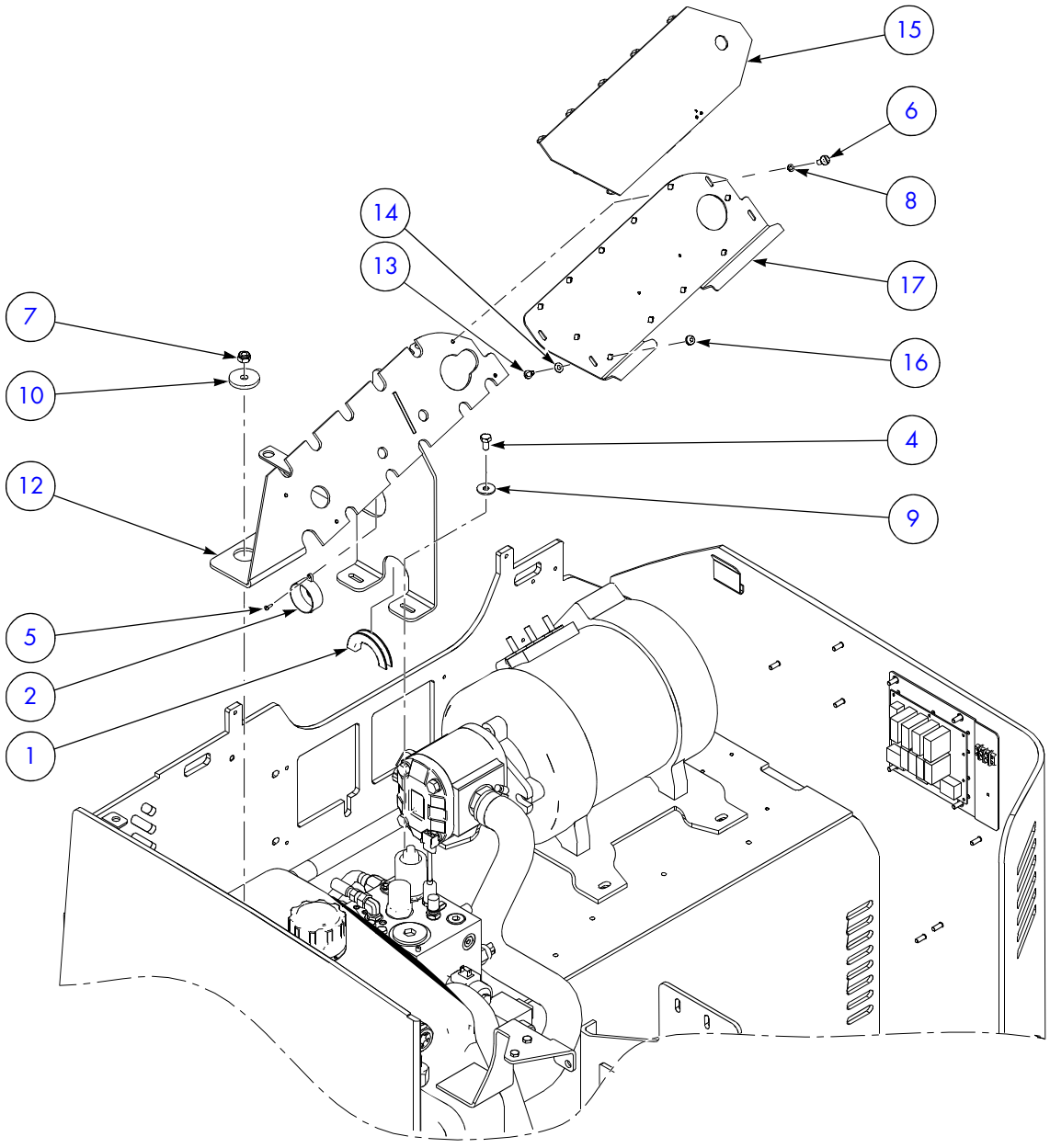
FIGURE 5-17 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	590-632	Horn, Piezo	
3	4	5-001-008	Screw	
4	2	5-010-010	Screw	
5	4	5-010-037	Screw	
6	4	5-018-004	Washer, Flat	
7	4	5-018-012	Washer, Flat	
9	1	1016429	Bracket, Support, Dash	
10	1	1020839/002	Bracket, Operator Display, Side Stance, DC Lift, 16.5 in. BC	A
	1	1020839/003	Bracket, Operator Display, Side Stance, DC Lift, 18.5 in. BC	B
	1	1020839/004	Bracket, Operator Display, Side Stance, DC Lift, 21.5 in. BC	C
11	13	5-010-004	Screw	
12	13	5-018-002	Washer, Flat	
13	1	1016511/004	Display, Operator, Side Stance	R
14	11	1017407	Grommet	
15	1	1025821	Bracket, Mounting, Display	

A= 16.5 in. Battery Compartment DC Lift Only
B= 18.5 in. Battery Compartment DC Lift Only
C= 21.5 in. Battery Compartment DC Lift Only
R= Recommended Spare

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Operator Display Installation, Side Stance, AC Lift

Figure 5-18: Operator Display Installation, Side Stance, AC Lift



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List 5-18: Operator Display Installation, Side Stance, AC Lift

FIGURE 5-18 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	360-032	Guard, Cable	
2	1	590-632	Horn, Piezo	
4	2	5-001-007	Screw	
5	2	5-010-005	Screw	
6	4	5-010-037	Screw	
7	1	5-016-005	Nut, Nylon Locking	
8	4	5-018-004	Washer, Flat	
9	4	5-018-012	Washer, Flat	
10	1	828-004-671	Washer	
12	1	1020835	Bracket, Operator Display, Side Stance, AC Lift	
13	13	5-010-004	Screw	
14	13	5-018-002	Washer, Flat	
15	1	1016511/004	Display, Operator, Side Stance	R
16	11	1017407	Grommet	
17	1	1025821	Bracket, Mounting, Display	

R= Recommended Spare

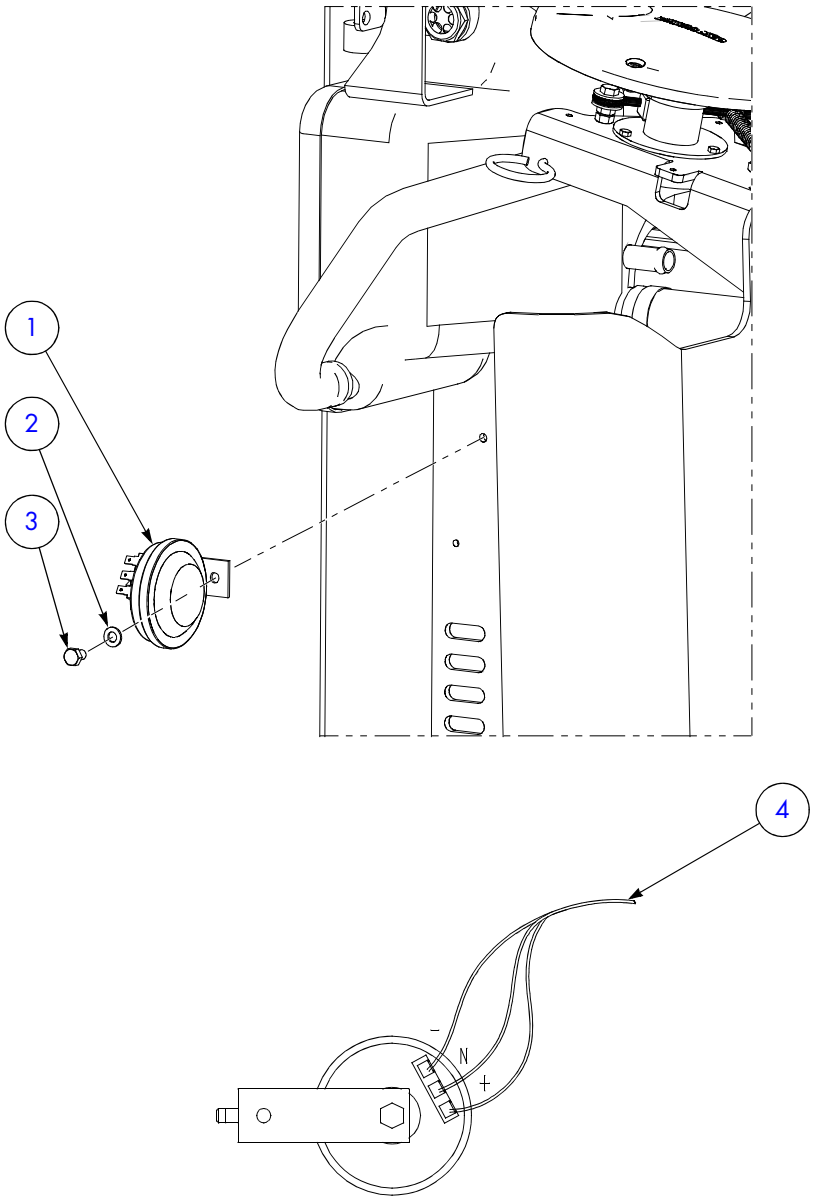
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Horn Installation

Figure 5-19a: Horn Installation



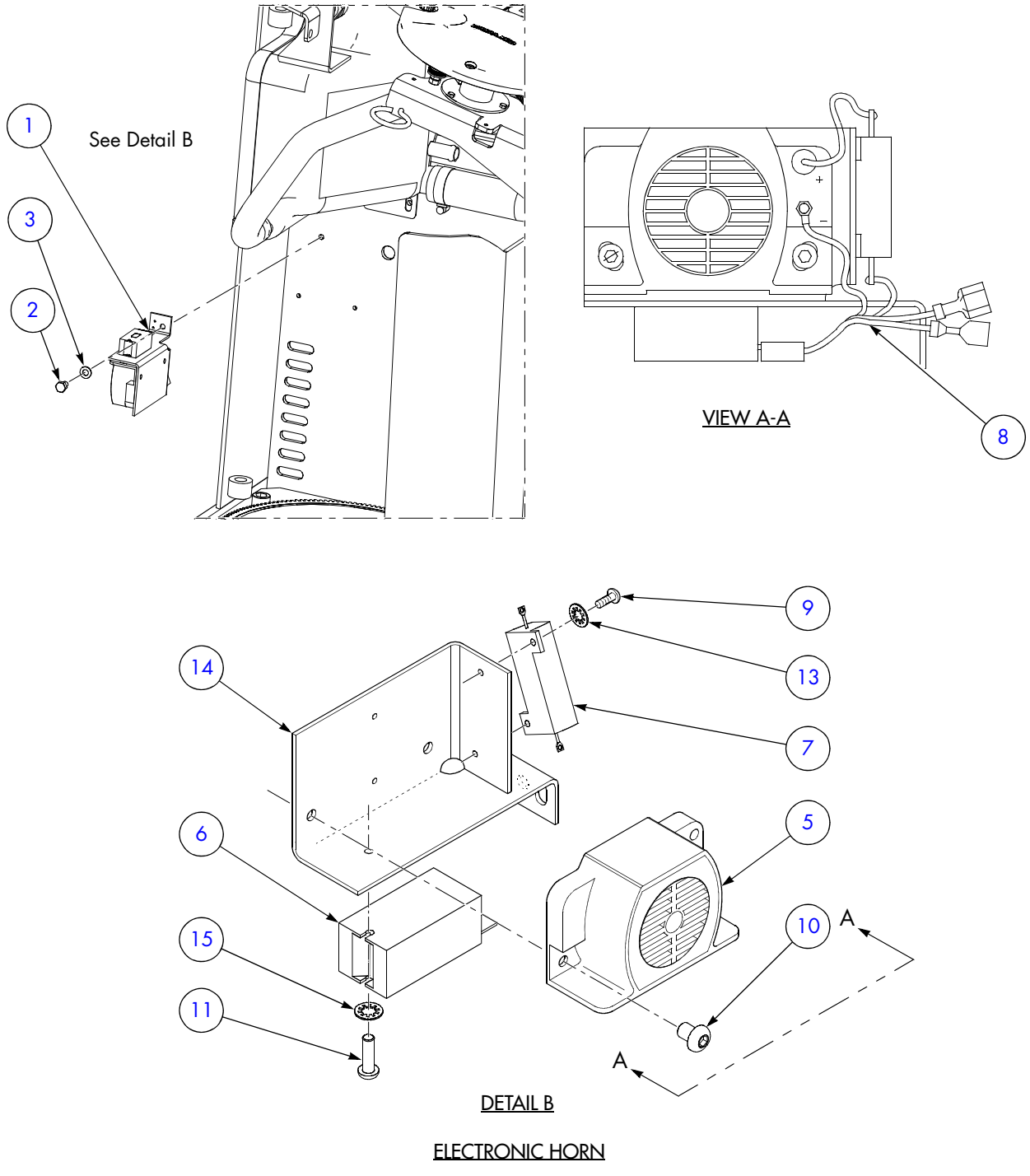
MECHANICAL HORN

R1008460_E1 SHT 1 OF 2

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Horn Installation

Figure 5-19b: Horn Installation



R1008460_E2, R828_013_737_A1, R828_013_737_A2 SHT 2 OF 2

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List 5-19: Horn Installation

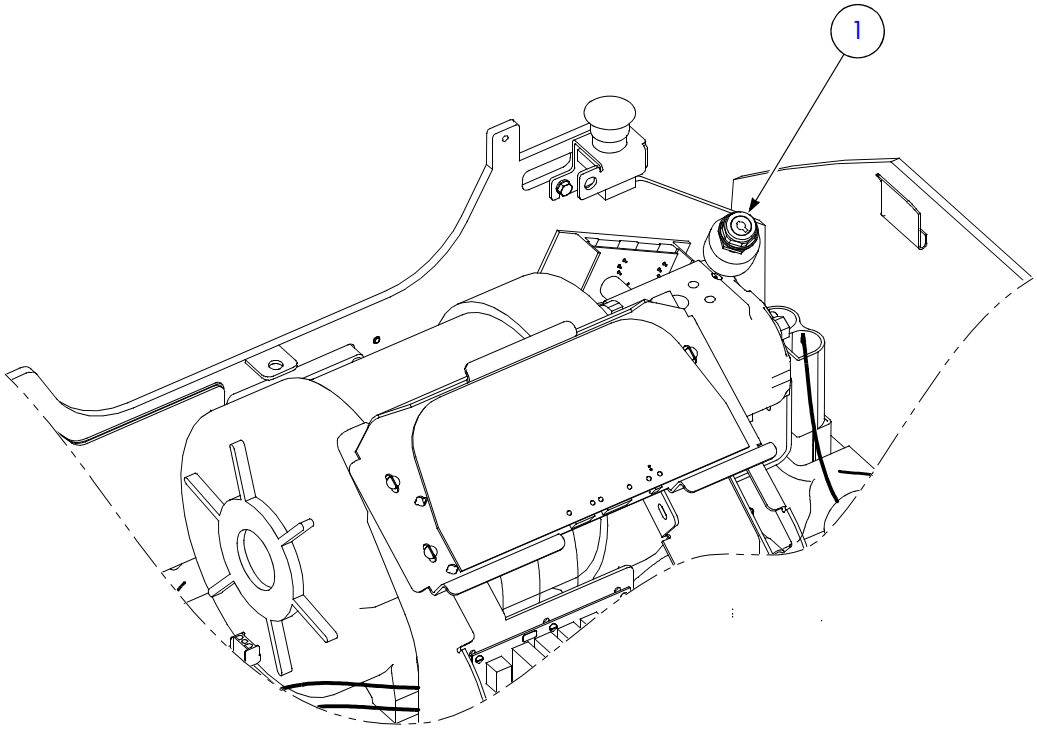
FIGURE 5-19 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	590-643/005	Horn, 36V, Mechanical	R
	1	828-013-737/002	Horn, 36V, Electronic (includes: items 5 thru 15)	
2	1	5-001-006	Screw	
3	1	5-018-006	Washer, Flat	
4	1	850-139-001	Harness, Horn, Mechanical	
5	1	590-633	Horn, 36V, Electronic (Note*)	
6	1	154-010-405/003	Module Assembly, Suppressor	
7	1	1-110-847/007	Resistor Assembly, Horn	
8	1	828-005-925	Harness, Horn, Electronic	
9	2	701-306	Screw	
10	2	714-133	Screw	
11	1	701-334	Screw	
13	2	774-005	Washer, Lock	
14	1	828-013-736	Bracket, Horn	
15	1	774-009	Washer, Lock	

Note: Remove Self Grounding Clip Prior to Installation
R= Recommended Spare

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Key Switch Assembly

Figure 5-20: Key Switch Assembly



R828_013_592_1

List 5-20: Key Switch Assembly

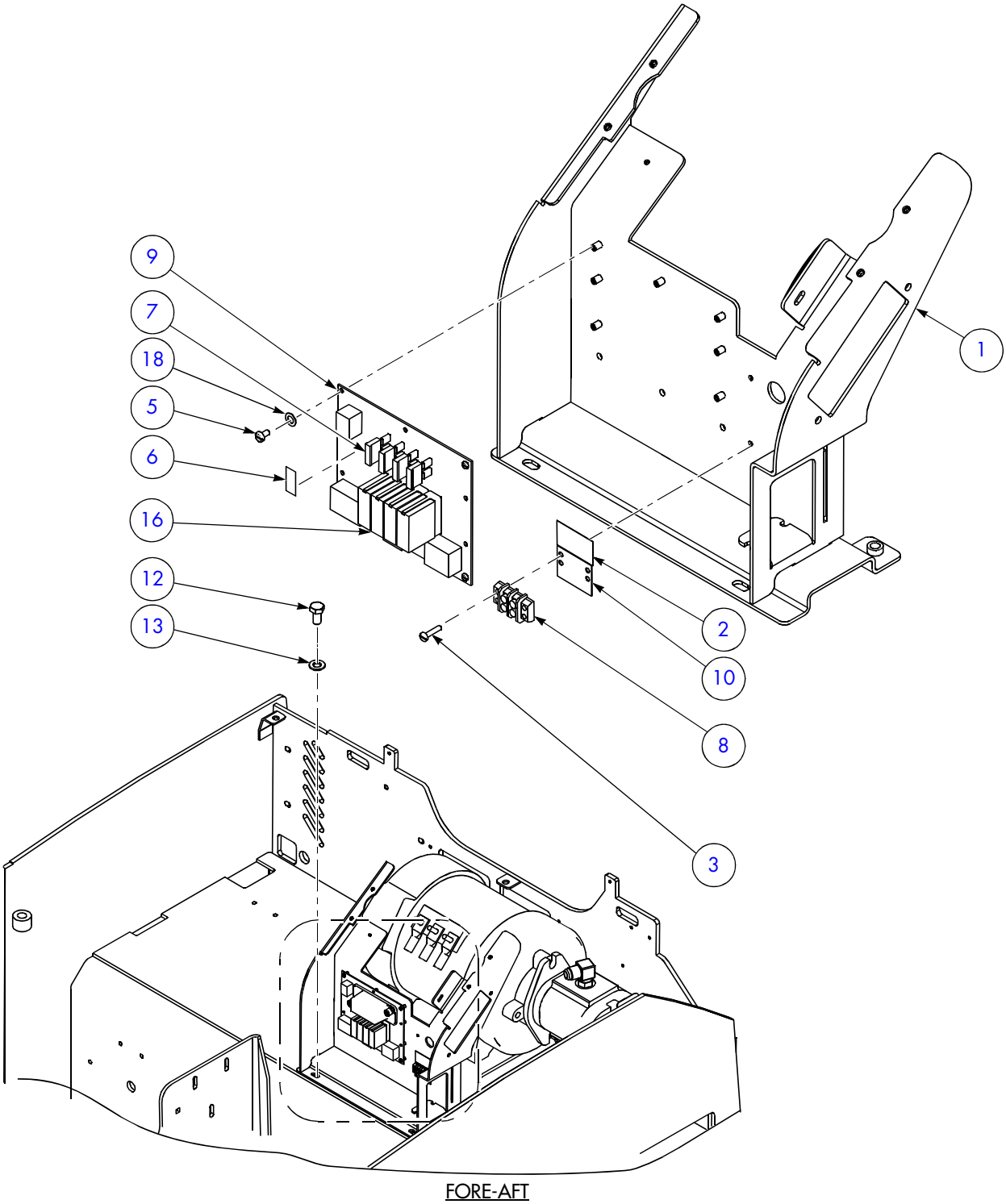
FIGURE 5-20 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1020341/003	Switch, Key, Sealed (EE) (includes:)	
	1	114-008-304	Key with Fob	
	1	590-004/01	Key	
	1	1-150-376	Switch, Key, 2-position, Rotary (Keyless)	B
	1	828-013-664	Switch, Key, Sealed, Rotary (EE)	B

A= Standard
B= Optional

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Relay/Control Fuse Panel Installation with Auxiliary Power

Figure 5-21a: Relay/Control Fuse Panel Installation with Auxiliary Power

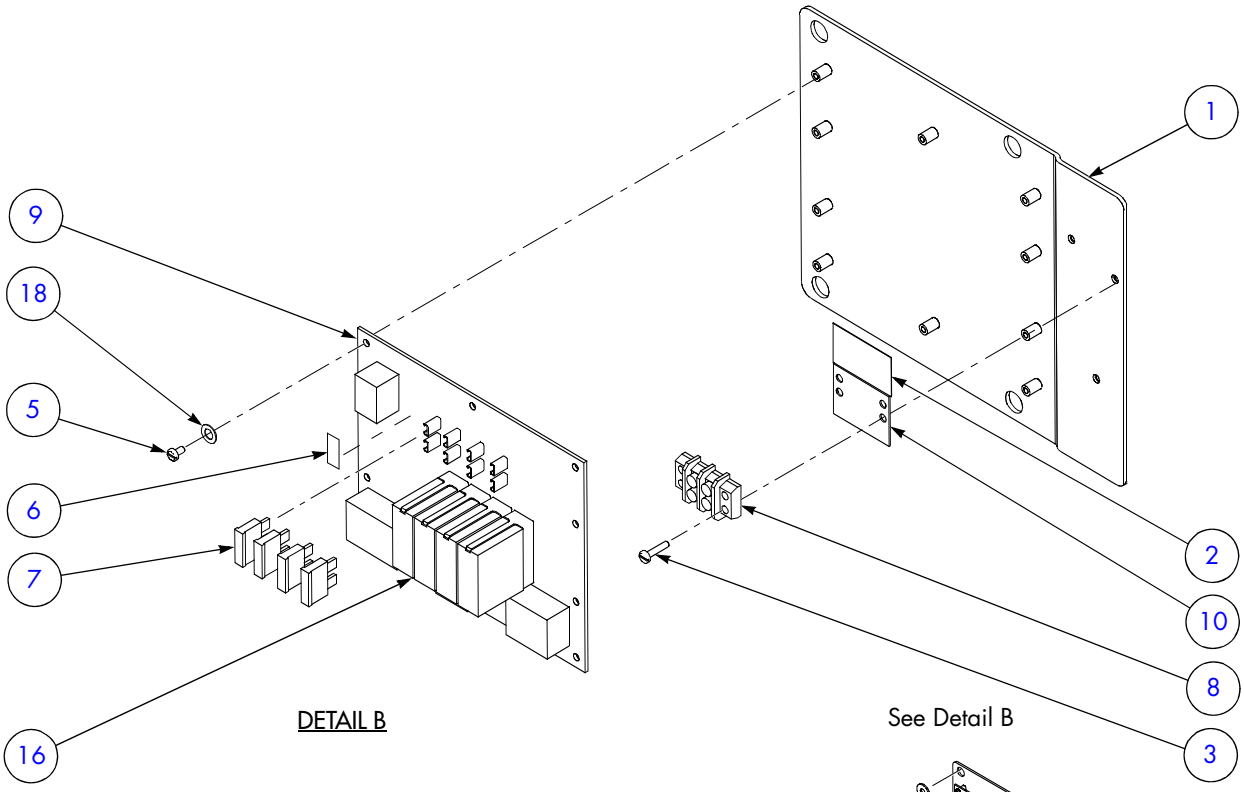


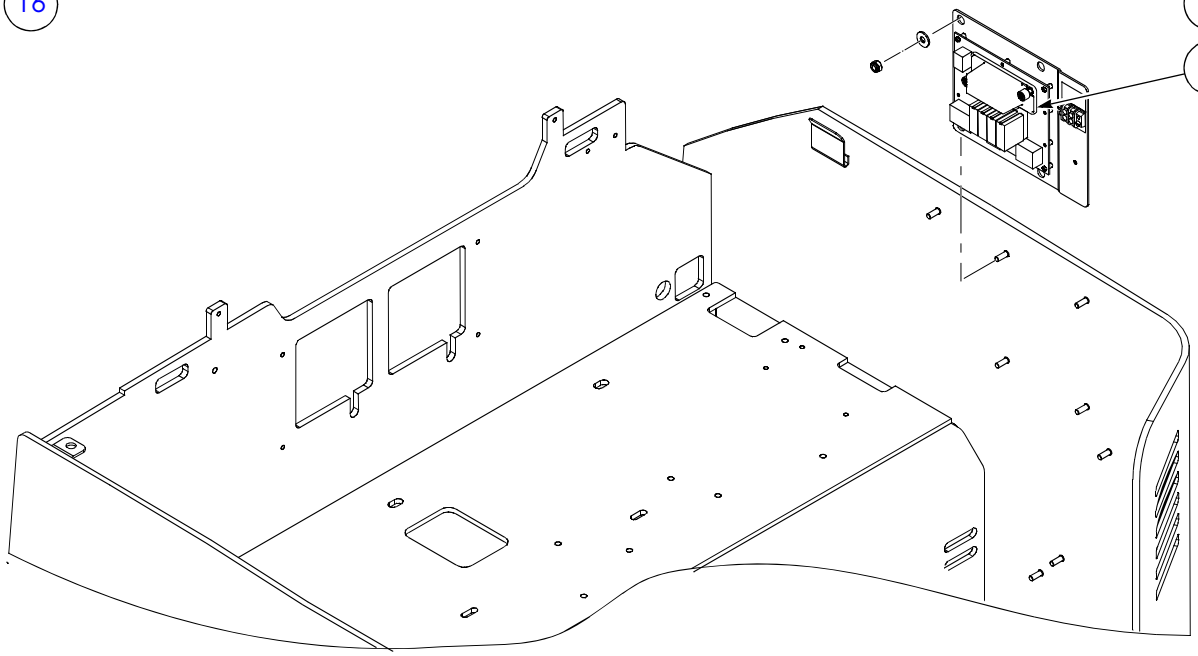
1025075_B SHT 1 OF 2

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Relay/Control Fuse Panel Installation with Auxiliary Power

Figure 5-21b: Relay/Control Fuse Panel Installation with Auxiliary Power





SIDE STANCE

1025074_EA SHT 2 OF 2

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List 5-21: Relay/Control Fuse Panel Installation with Auxiliary Power

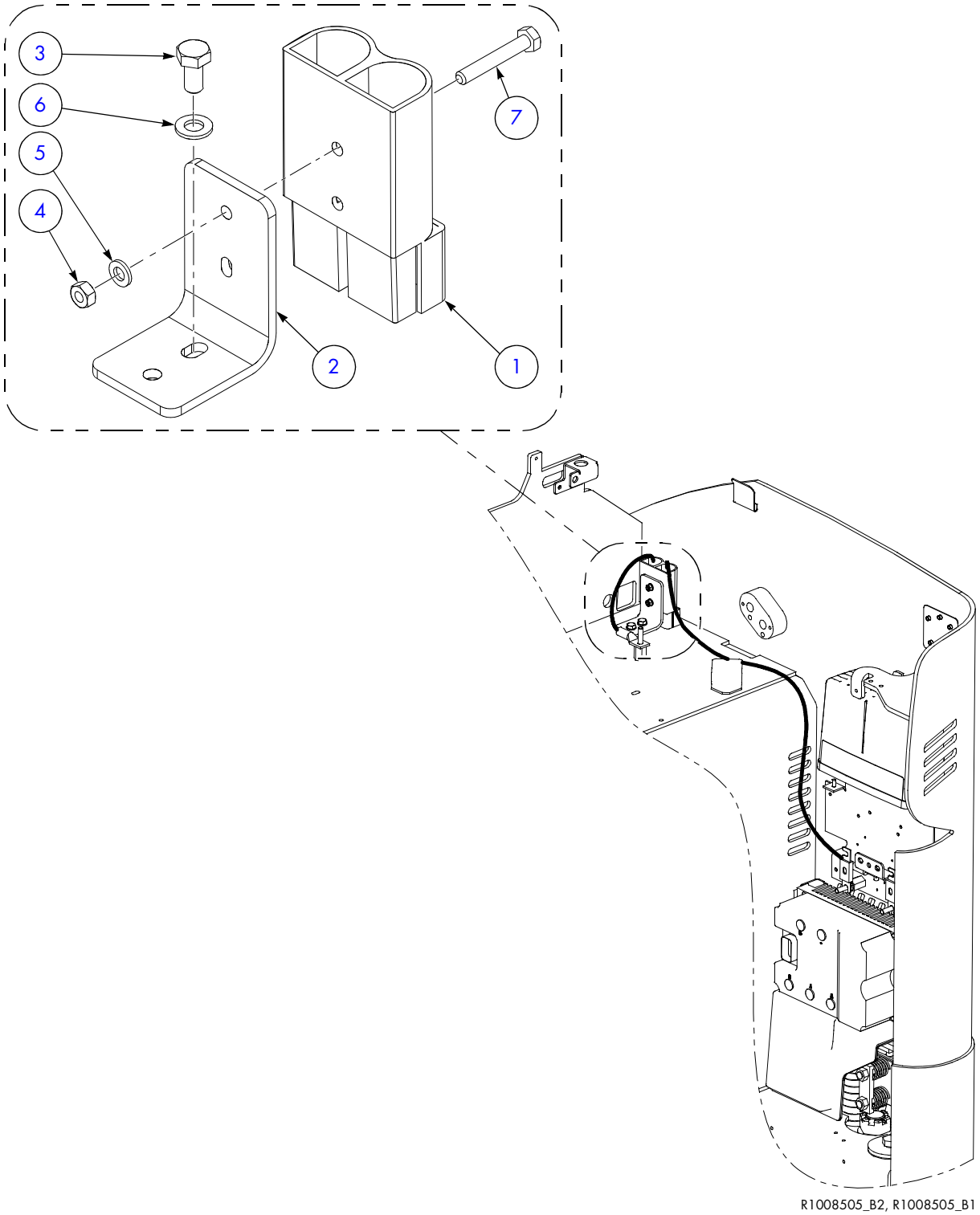
FIGURE 5-21 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1024887	Bracket Assembly, Relay/Control Fuse Panel	
2	1	412-746	Decal, 15 amp Fuse	
	1	412-817	Decal, 5 amp Fuse	
3	2	5-010-041	Screw	
5	6	5-010-004	Screw	
6	1	1028987	Decal, Label, 15 Amp	
7	2	590-585/005	Fuse (FU7 and FU8), 5 amp (2 amp option)	R
	4	590-585/008	Fuse (FU5 and FU6), (FU7 and FU8, 15 amp for 10 amp option)	R
8	1	1-030-001	Terminal Strip, Insulated Barrier	
9	1	1022159/004	Panel Assembly, Relay/Control Fuse	R
10	1	1-030-002	Insulator, Terminal Strip	
12	4	5-001-007	Screw	
13	4	5-018-006	Washer, Flat	
16	4	1-100-068	Relay (K1, K2, K3, and K4)	
17	1	1022038	Cover Assembly, Fuse, EE	
18	1	5-020-002	Washer	

R= Recommended Spare

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Battery Connector Installation

Figure 5-22: Battery Connector Installation



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List 5-22: Battery Connector Installation

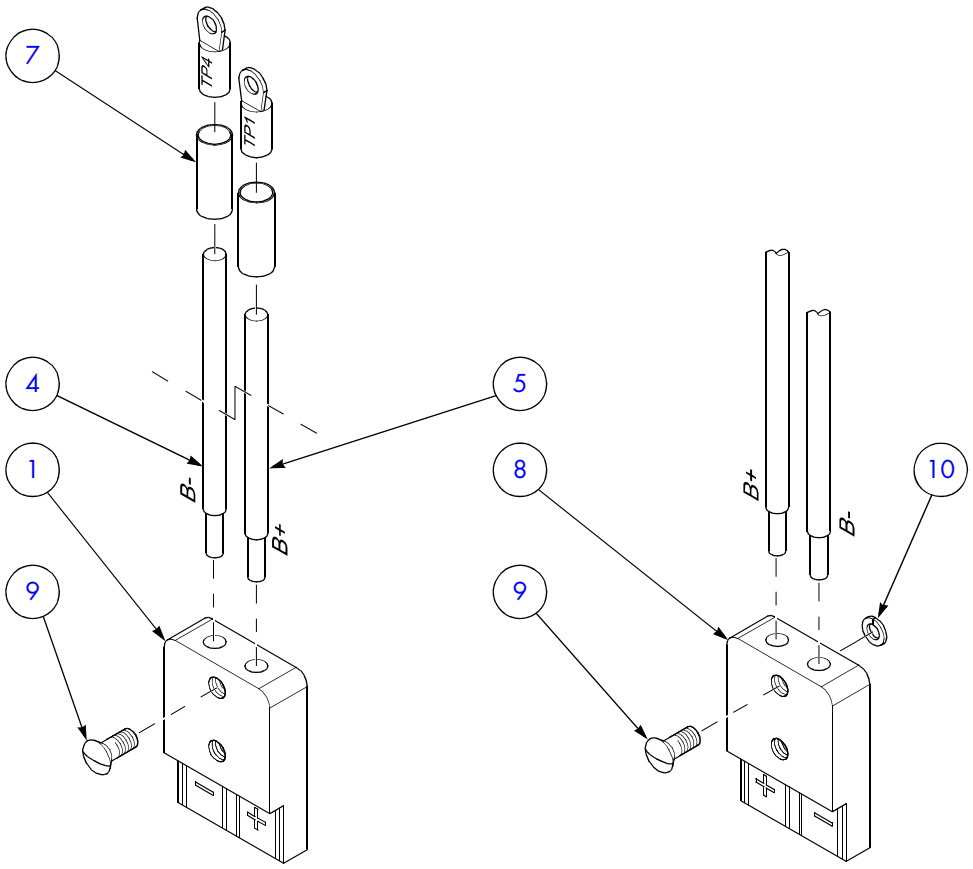
FIGURE 5-22 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Connector Assembly, Battery (See Figure 5-23.)	
2	1	1063890	Bracket, Battery Connector, Fore-Aft Stance	A
	1	1063889	Bracket, Battery Connector, Side Stance	B
3	2	5-001-007	Screw	
4	2	5-015-004	Nut	
5	2	5-018-005	Washer, Flat	
6	2	5-018-006	Washer, Flat	
7	2	5-001-005	Screw	

A= Fore-Aft Stance
B= Side Stance

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Battery Connector Assembly

Figure 5-23: Battery Connector Assembly



R1012649_A, R828_001_066

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List 5-23: Battery Connector Assembly

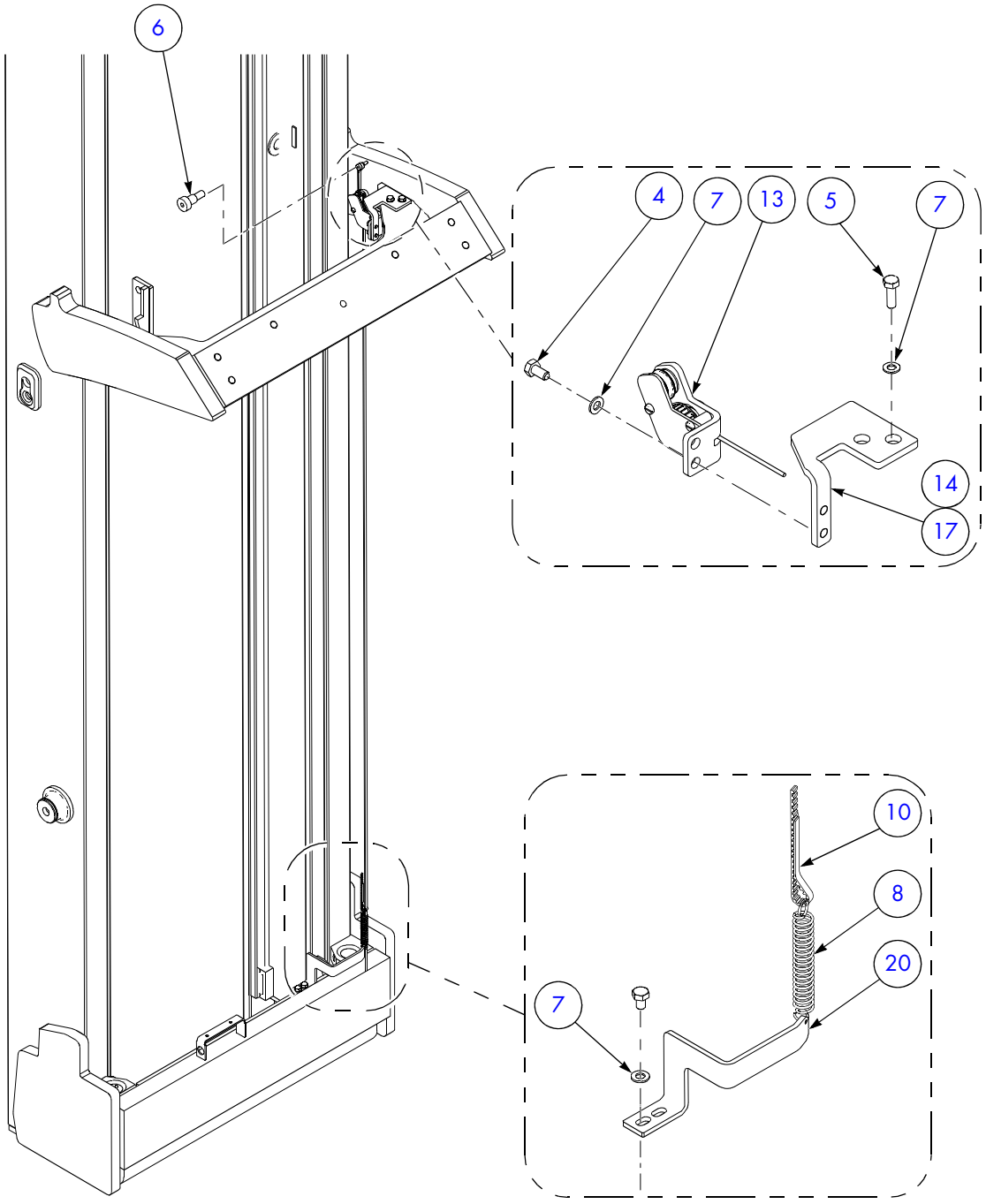
FIGURE 5-23 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	590-724	Connector, Battery (Gray)	C
	1	590-755/001	Connector, Battery (Gray)	D, R
	1	590-725	Connector, Battery (Yellow)	C
	1	590-755/004	Connector, Battery (Yellow)	D
	1	590-726	Connector, Battery (Red)	C, R
	1	590-755/003	Connector, Battery (Red)	D
	1	590-739	Connector, Battery (Blue)	C
	1	590-755/002	Connector, Battery (Blue)	D
4	1	828-013-533/065	Wire, Single, B-	A, C
	1	828-013-533/066	Wire, Single, B-	A, D
	1	828-013-533/070	Wire, Single, B-	B, C
	1	828-013-533/072	Wire, Single, B- (Fore-Aft)	B, D
	1	828-013-533/107	Wire, Single, B- (Side Stance)	B, D
5	1	828-013-533/067	Wire, Single, B+	A, C
	1	828-013-533/071	Wire, Single, B+	B, C
	1	828-013-533/109	Wire, Single, B+	B, D
	1	828-013-533/110	Wire, Single, B+	A, D
7	3.75 in.	611-017	Tubing, Shrinkable (95.25 mm)	
8	1	828-001-065	Block, Battery Connector	
9	2	701-201	Screw	
10	2	772-116	Washer, Lock	

A= 16.5 and 18.5 in. Battery Compartments
B= 21.5 in. Battery Compartment
C= DC Lift
D= AC Lift
R= Recommended Spare

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Height Encoder Installation, 7400

Figure 5-24a: Height Encoder Installation, 7400

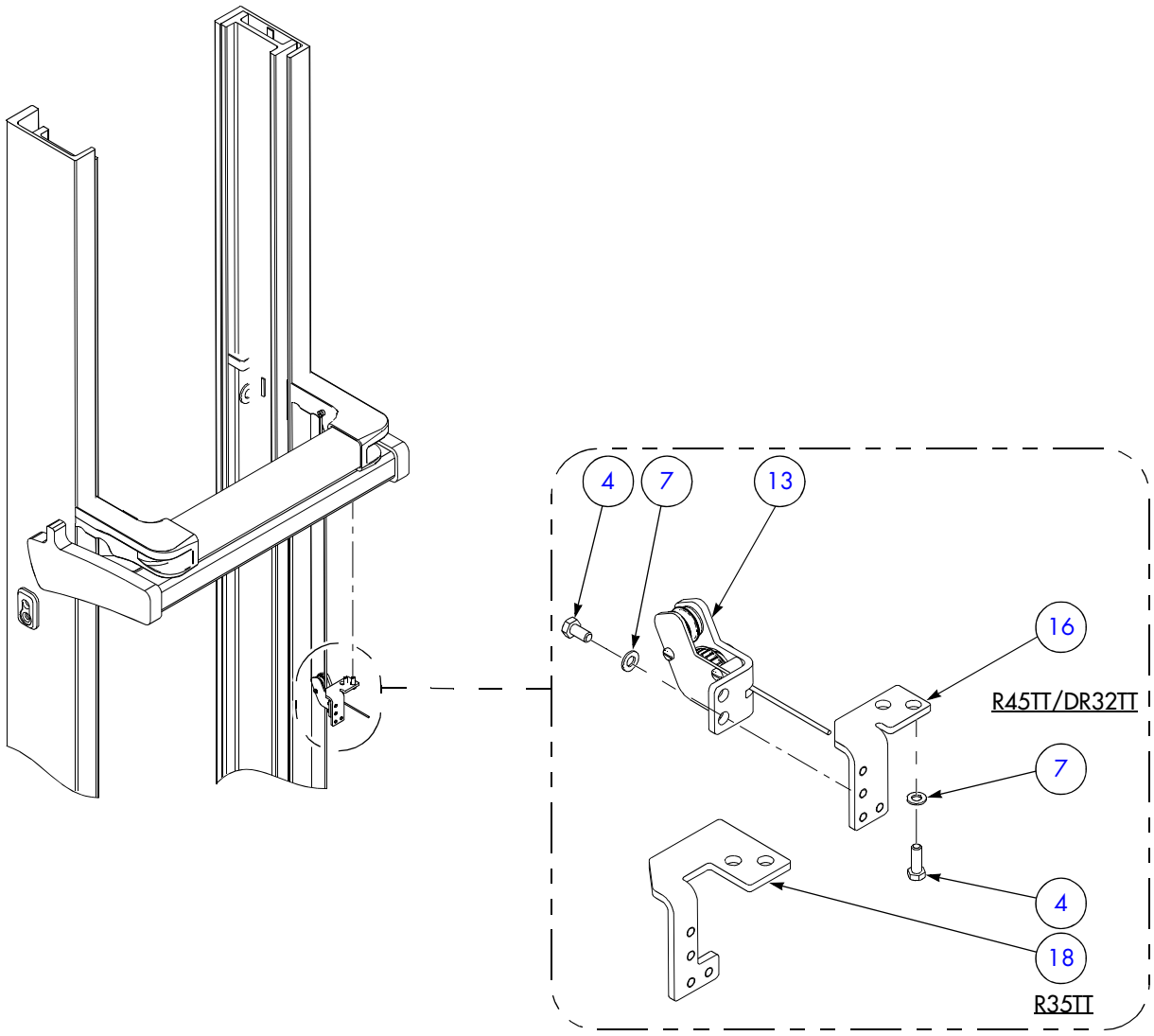


1046360_001_A SHT 1 OF 3

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Height Encoder Installation, 7400

Figure 5-24b: Height Encoder Installation, 7400

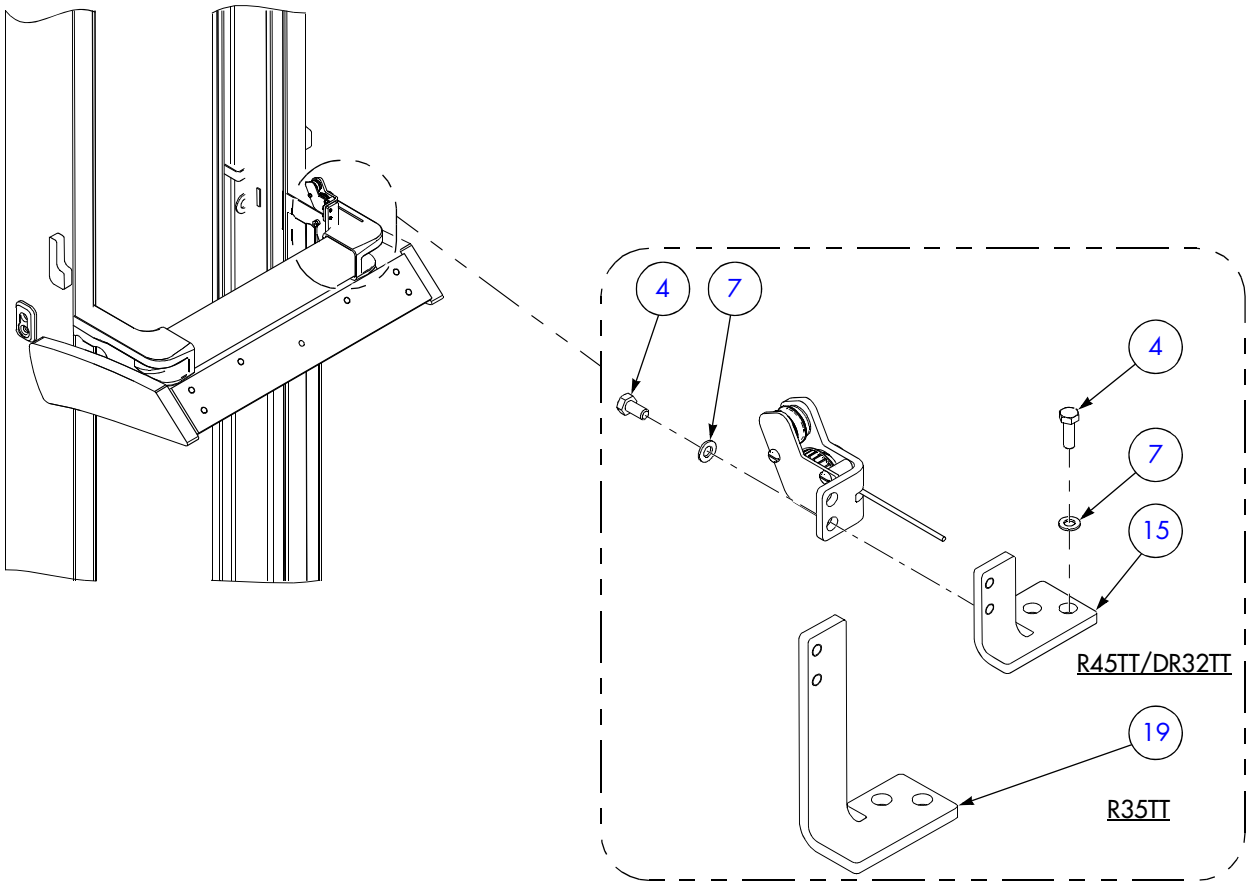


1046360_007_A SHT 2 OF 3

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Height Encoder Installation, 7400

Figure 5-24c: Height Encoder Installation, 7400



1046360_003_A SHT 3 OF 3

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List 5-24: Height Encoder Installation, 7400

FIGURE 5-24 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-028	Cable Tie (Not Shown)	
2	4	611-029	Cable Tie (Not Shown)	
4	2	5-001-007	Screw	
5	4	5-001-009	Screw	
6	1	5-005-014	Screw, Shoulder	
7	6	5-018-006	Washer, Flat	
8	1	830-052	Spring, Tension	R
10	1	1017244/001	Belt, Drive	A, R
	1	1017244/002	Belt, Drive	B, C, R
	1	1017244/003	Belt, Drive	D, R
	1	1017244/004	Belt, Drive	E, R
	1	1017244/005	Belt, Drive	F, R
	1	1017244/006	Belt, Drive	G, R
11	1	1017872	Harness, Operator Display to HTI (JPD2 to JPS11, JPS13, S18) (Not Shown)	
12	1	1017873/001	Harness, Height Encoder, JPE3 to JPS11 (Not Shown)	A, B, C
	1	1017873/002	Harness, Height Encoder, JPE3 to JPS11 (Not Shown)	D
	1	1017873/003	Harness, Height Encoder, JPE3 to JPS11 (Not Shown)	E
	1	1017873/004	Harness, Height Encoder, JPE3 to JPS11 (Not Shown)	F
	1	1017873/005	Harness, Height Encoder, JPE3 to JPS12 (Not Shown)	G
13	1	1043659	Encoder Assembly, Height Indicator, Model 7400 (See Figure 5-26.)	
14	1	1043779	Bracket, Height Encoder, R45TT and DR32TT Mast	
15	1	1044082/001	Bracket, Height Encoder, R45TT and DR32TT Mast	B
	1	1044082/002	Bracket, Height Encoder, R45TT and DR32TT Mast	C
16	1	1044747	Bracket, Mounting, Height Indicator, R45TT and DR32TT Mast	D, E, F, G
17	1	1044245/002	Bracket, Height Encoder, R35TT Mast	A, B
18	1	1044746	Bracket, Mounting, Height Indicator, R35TT Mast	D, E
19	1	1044308	Bracket, Height Encoder, R35TT Mast	C
20	1	1091196	Bracket, Lower, Height Encoder, R35TT Mast	
	1	1087282/001	Bracket, Lower, Height Encoder, R45TT and DR32TT Mast	
	1	1087282/002	Bracket, Lower, Height Encoder, R45TT and DR32TT Mast	C

A= Overall Collapsed Height (OACH) = 87 thru 95 in.
B= Overall Collapsed Height (OACH) = 96 thru 100 in.
C= Overall Collapsed Height (OACH) = 101 thru 106 in.
D= Overall Collapsed Height (OACH) = 107 thru 119 in.
E= Overall Collapsed Height (OACH) = 120 thru 131 in.
F= Overall Collapsed Height (OACH) = 132 thru 146 in.
G= Overall Collapsed Height (OACH) = 147 thru 161 in.
Note: Trim Excess from Belt Drive Length = OACH minus 13 in.
R= Recommended Spare

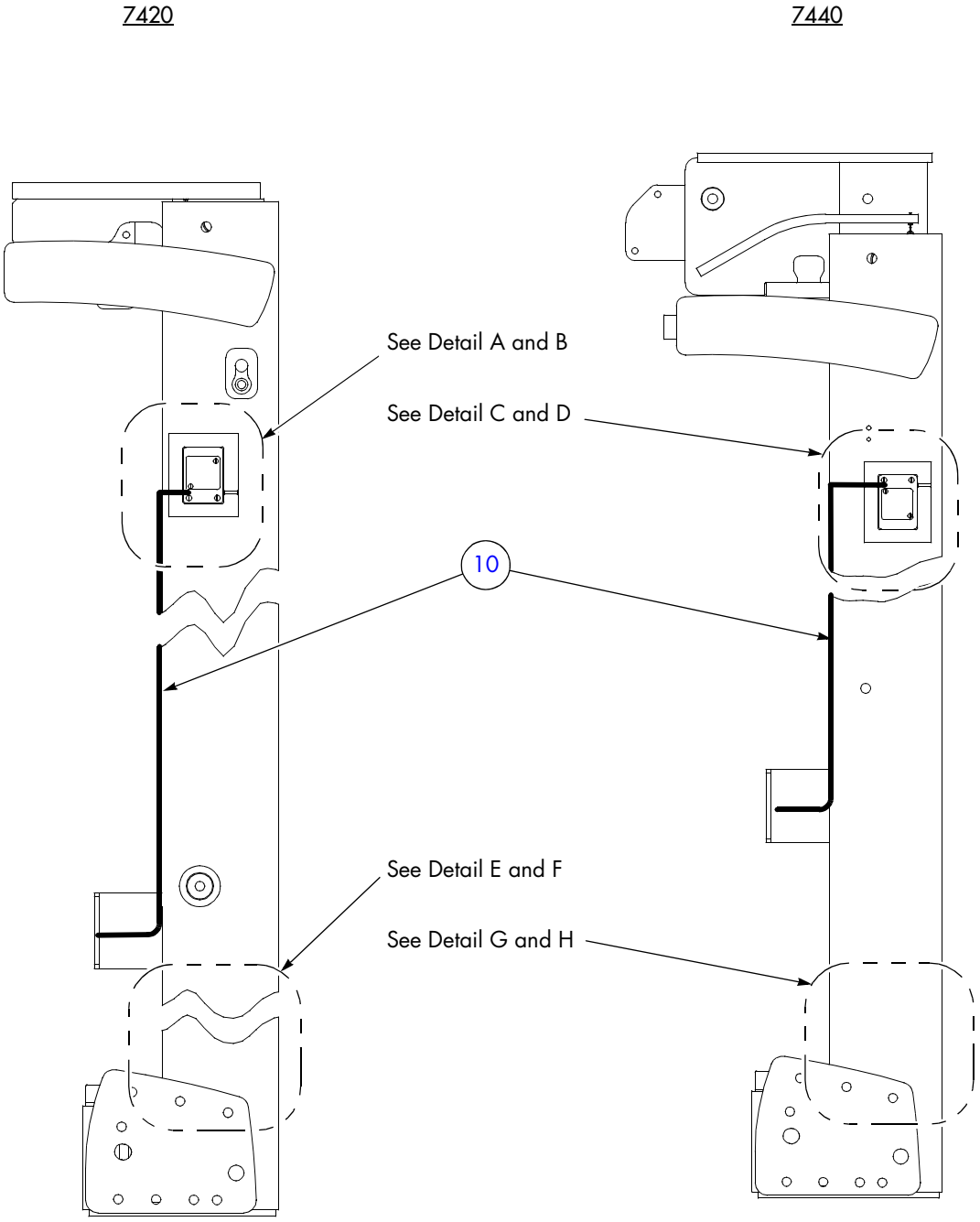
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Height Encoder Installation, 7420 and 7440

Figure 5-25a: Height Encoder Installation, 7420 and 7440

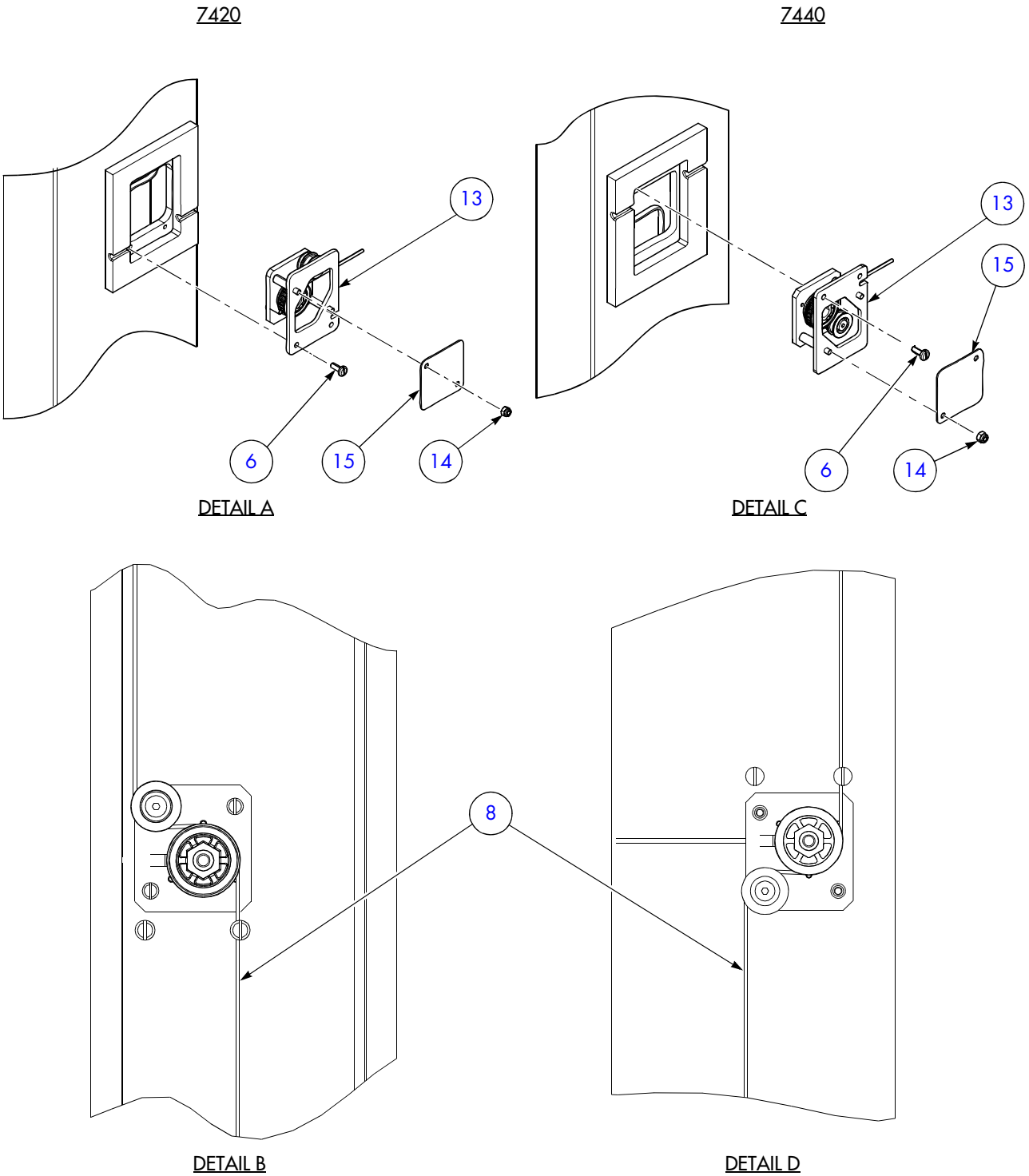


1051604_F7 1051610_E5 SHT 1 OF 4

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Height Encoder Installation, 7420 and 7440

Figure 5-25b: Height Encoder Installation, 7420 and 7440

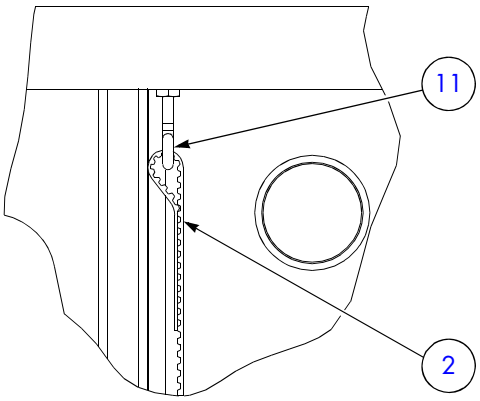


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Height Encoder Installation, 7420 and 7440

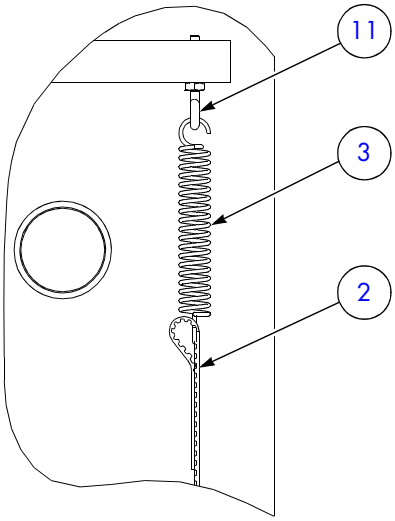
Figure 5-25c: Height Encoder Installation, 7420 and 7440

7420

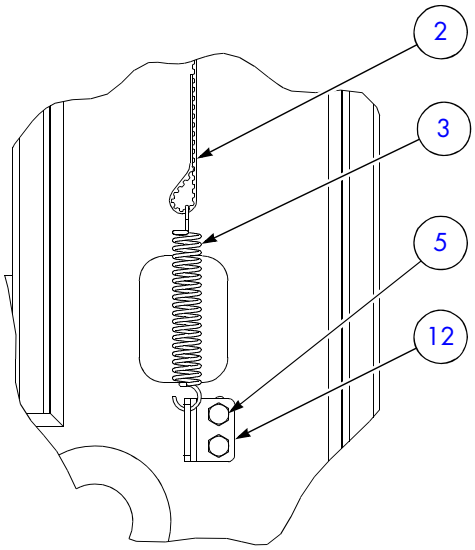


DETAIL E

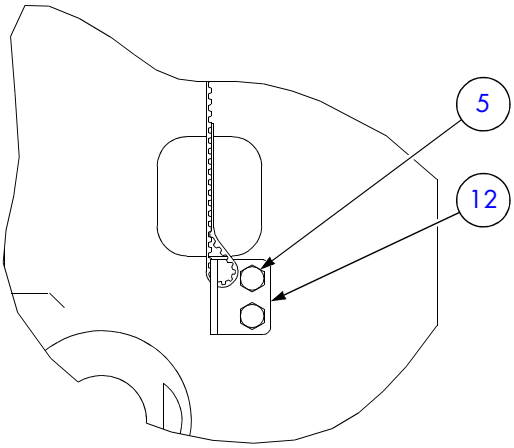
7440



DETAIL G



DETAIL F



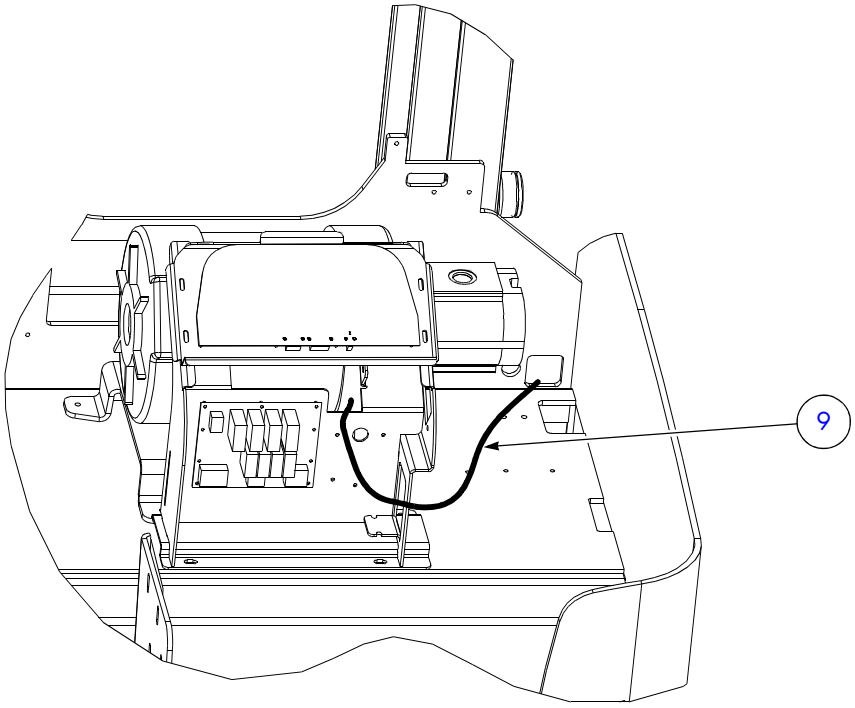
DETAIL H

1051604_D6 1051610_C3 1051604_D5 1051610_C4 SHT 3 OF 4

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Height Encoder Installation, 7420 and 7440

Figure 5-25d: Height Encoder Installation, 7420 and 7440



7420 AND 7440

1051604_D1 SHT 4 OF 4

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List 5-25: Height Encoder Installation, 7420 and 7440

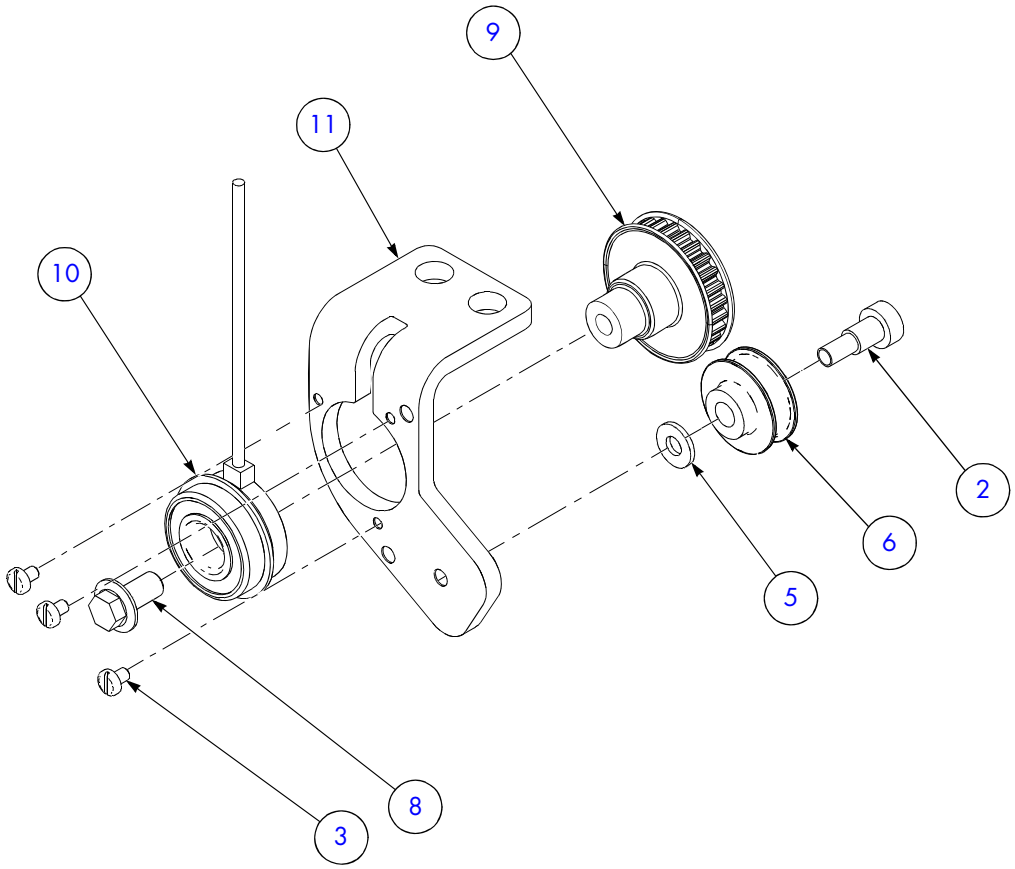
FIGURE 5-25 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-028	Cable Tie (Not Shown)	
2	4	611-029	Cable Tie	
3	1	830-052	Spring, Tension, Model 7420	A, R
5	2	5-001-001	Screw	
6	2	5-001-024	Screw	
8	1	1017244/006	Belt, Drive	A
	1	1017244/007	Belt, Drive	B
9	1	1017872	Harness, Operator Display to HTI (JPD2 to JPS11, JPS13, and S18)	
10	1	1017873/005	Harness, Height Encoder, JPE3 to JPS12	A
	1	1017873/006	Harness, Height Encoder, JPE3 to JPS13	B
11	1	1032159	Bolt, Eye	
12	1	1034718	Bracket, Belt	
13	1	1051609	Encoder Assembly, Height Indicator, Model 7440 (See Figure 5-27.)	
	1	1051963	Encoder Assembly, Height Indicator, Model 7420 (See Figure 5-27.)	
14	2	5-016-004	Nut	
15	1	1073437	Plate, Cover, Height Sensor	

A= Overall Collapsed Height (OACH) = 142 thru 161 in.
B= Overall Collapsed Height (OACH) = 162 thru 184 in.
R= Recommended Spare

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Encoder Assembly, Height Indicator, 7400

Figure 5-26: Encoder Assembly, Height Indicator, 7400



1043659_D

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List 5-26: Encoder Assembly, Height Indicator, 7400

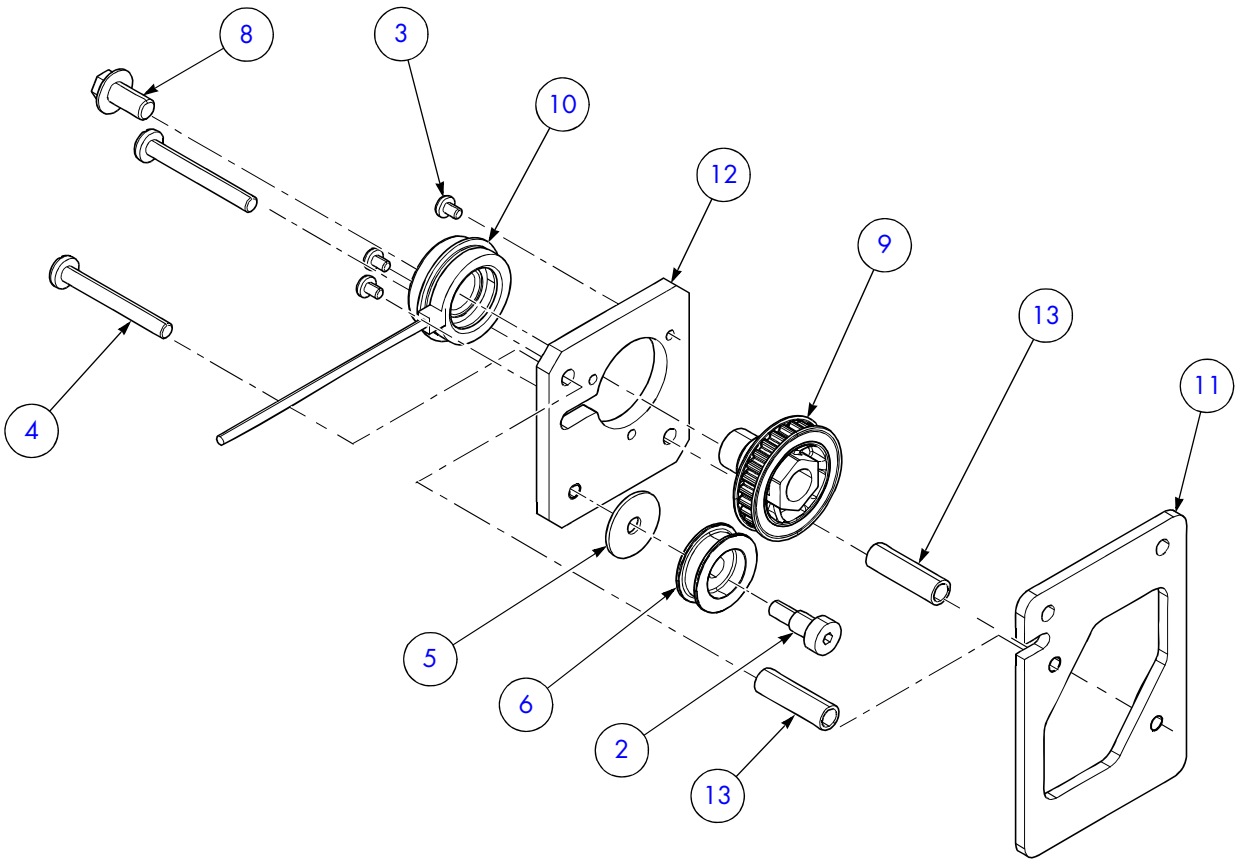
FIGURE 5-26 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1043659	Encoder Assembly, Height Indicator, Model 7400	
2	1	5-005-014	Screw, Shoulder	
3	3	5-010-009	Screw	
5	1	771-014	Washer, Flat	
6	1	1013742	Sheave, Pulley, Idler	
8	1	1015098/001	Bolt	
9	1	1078276	Gear, Timing Assembly, Height Indicator	R
10	1	1061151	Bearing, Encoder, Height Indicator	R
11	1	1043615	Bracket, Height Encoder Mounting	

R= Recommended Spare

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Encoder Assembly, Height Indicator, 7420 and 7440

Figure 5-27: Encoder Assembly, Height Indicator, 7420 and 7440



1051963

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List 5-27: Encoder Assembly, Height Indicator, 7420 and 7440

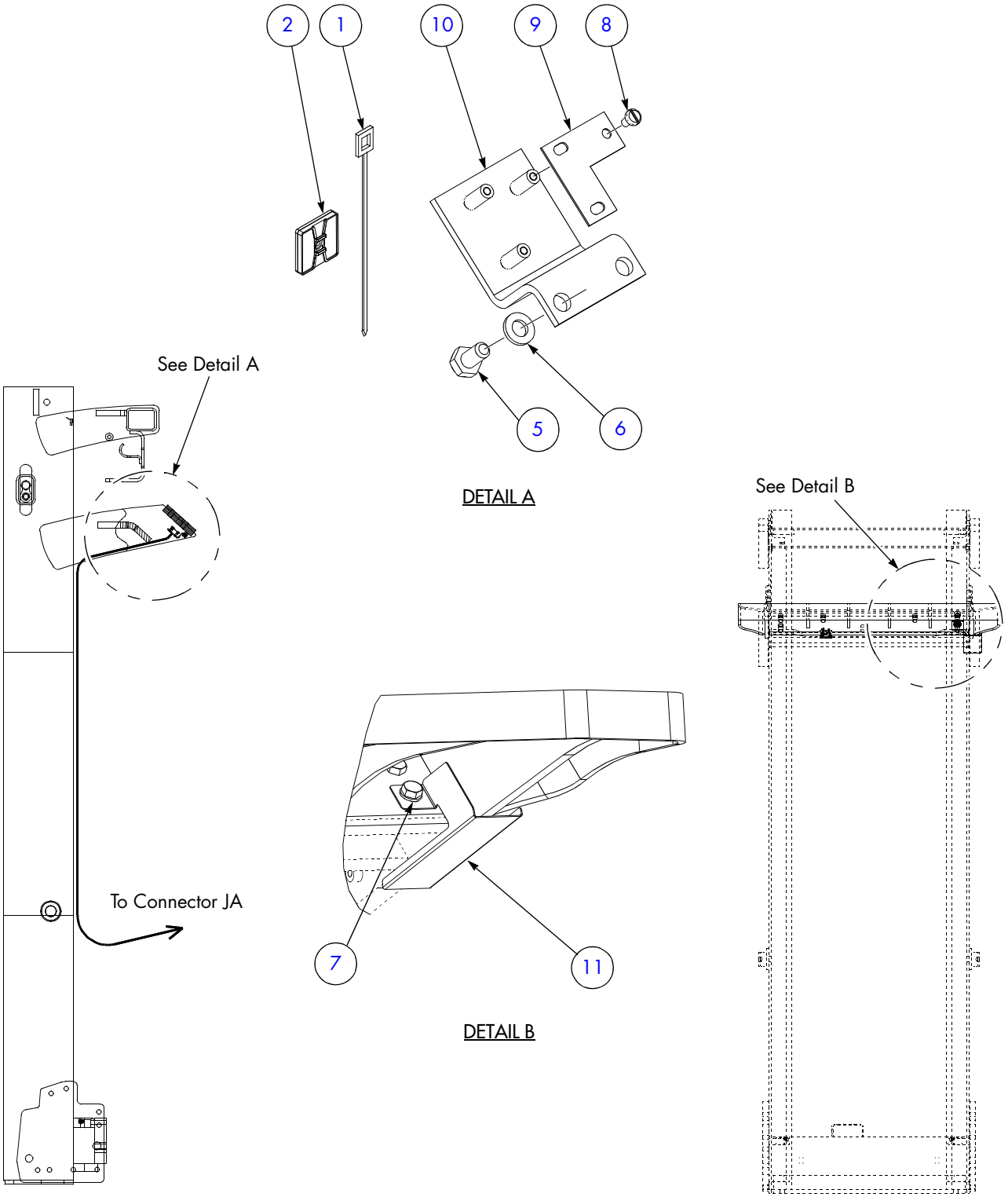
FIGURE 5-27 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1051963	Encoder Assembly, Height Indicator, Model 7420	A
		1051609	Encoder Assembly, Height Indicator, Model 7440	B
2	1	5-005-014	Screw, Shoulder	
3	3	5-010-009	Screw	
4	2	5-010-029	Screw	
5	1	771-014	Washer, Flat	
6	1	1013742	Sheave, Pulley, Idler	
8	1	1015098/001	Bolt	
9	1	1078276	Gear, Timing Assembly, Height Indicator	
10	1	1061151	Bearing, Encoder, Height Indicator	R
11	1	1073438	Plate, Cover, Height Sensor	
12	1	1073540	Plate, Mounting, Height Sensor	
13	2	1044893	Spacer, HTI Encoder	

A= Model 7420
B= Model 7440
R= Recommended Spare

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Ambient Temperature Sensor Installation

Figure 5-28: Ambient Temperature Sensor Installation



R1012918_A1, R1012918_A2, 1012918_C1, 1012918_C2

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List 5-28: Ambient Temperature Sensor Installation

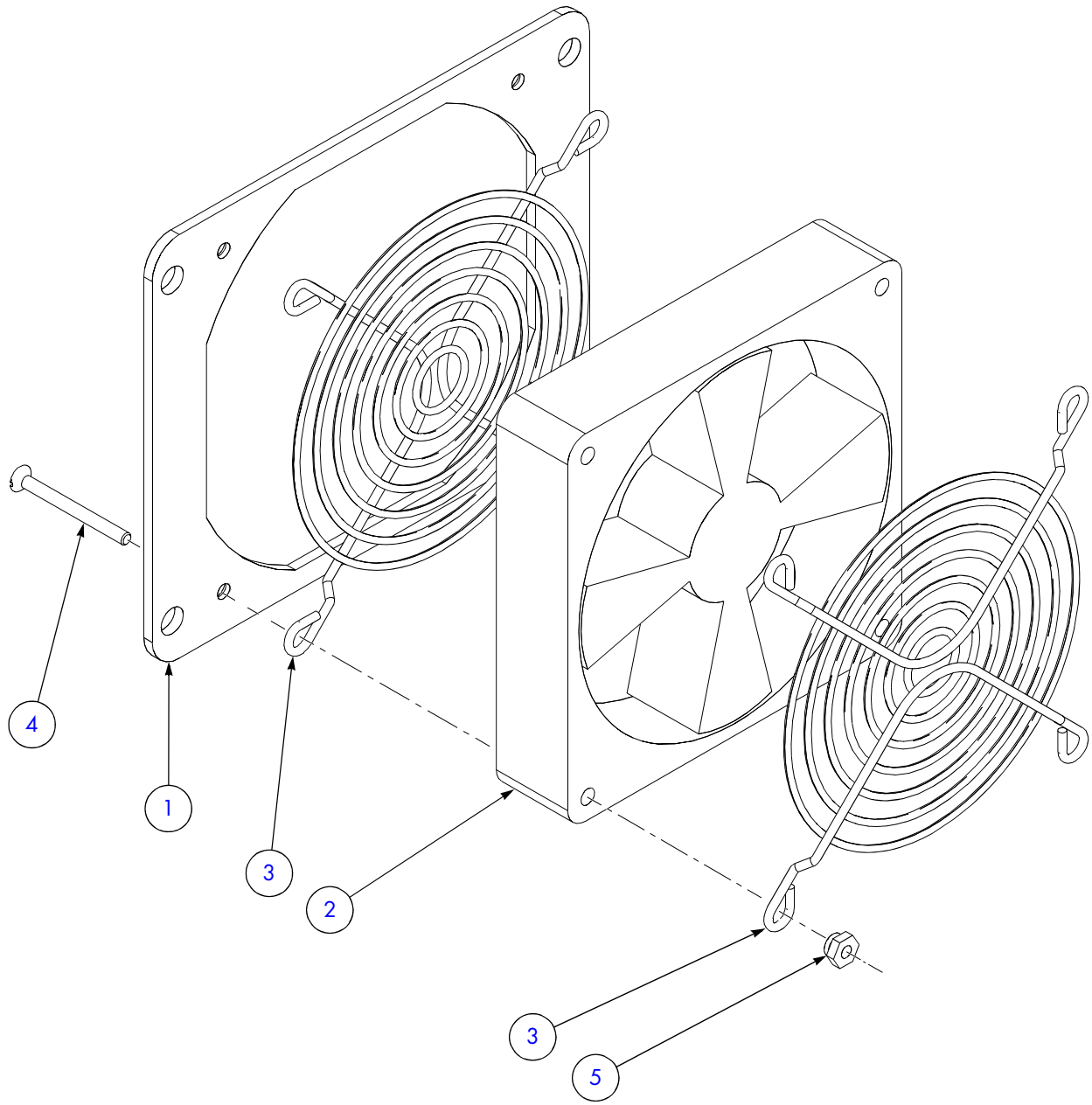
FIGURE 5-28 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-029	Tie, Cable	
2	AR	611-044	Anchor, Cable Tie, Adhesive-Backed	
5	2	5-001-001	Screw	
6	2	5-018-005	Washer, Flat	
7	1	5-018-009	Washer, Flat	
8	3	5-010-004	Screw	
9	1	1010571/001	Card Assembly, Circuit, Temperature Sensor, Ambient	R
10	1	1011182	Bracket, Temperature Sensor	
11	1	1036240	Guard, Drip	

R= Recommended Spare

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Fan Assembly, Drive Motor Compartment

Figure 5-29: Fan Assembly, Drive Motor Compartment



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List 5-29: Fan Assembly, Drive Motor Compartment

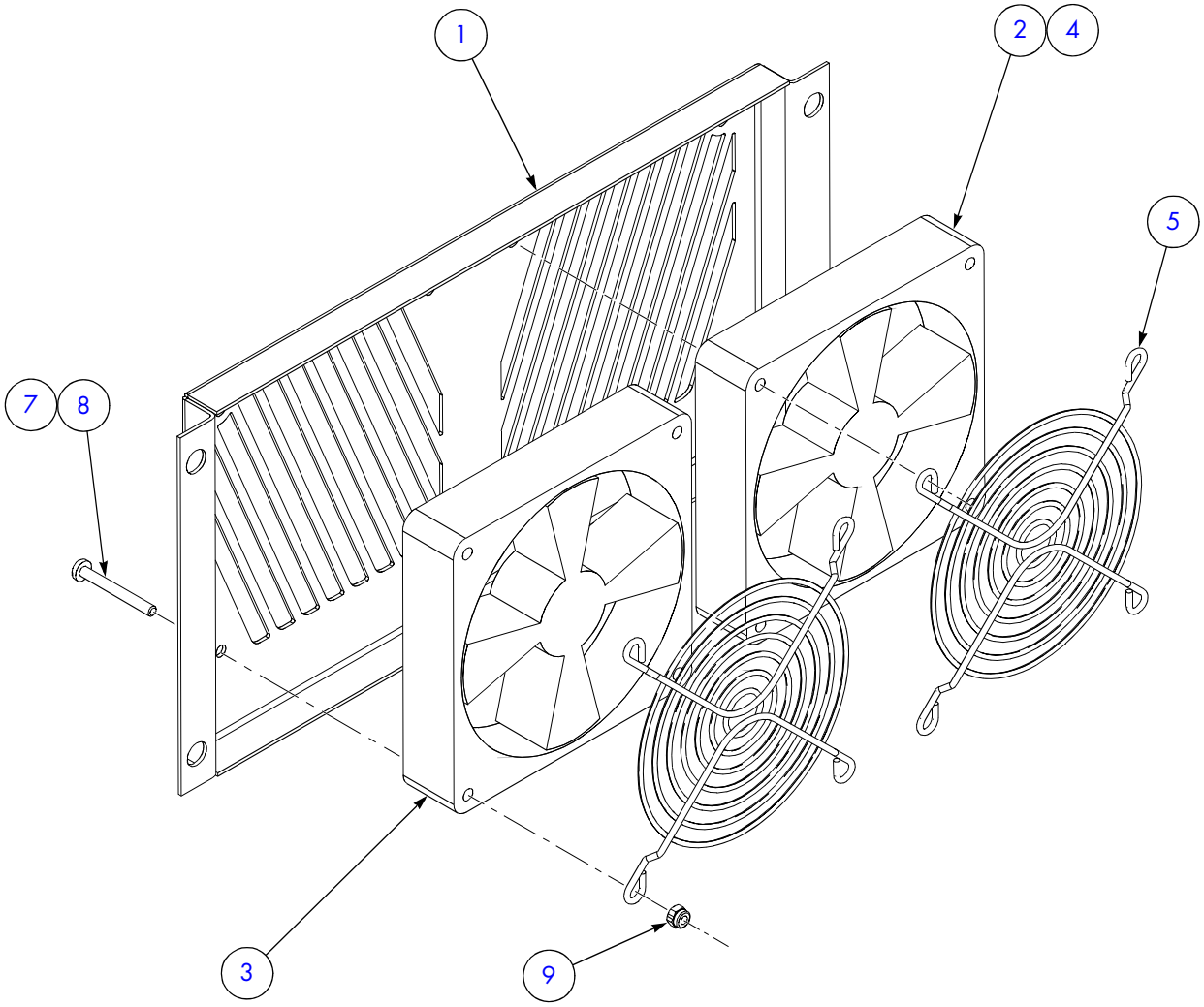
FIGURE 5-29 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1010845	Fan Assembly, Drive Motor Compartment	A
		1052451	Fan Assembly, Drive Motor Compartment	B
1	1	1010831	Plate, Fan	
2	1	1018535/004	Fan, Drive Motor Compartment	B
	1	1012627/003	Fan, Drive Motor Compartment	A
3	2	590-909	Guard, Fan	
4	4	702-295	Screw	B
	4	1007408	Screw	A
5	4	760-103	Nut, Lock	

A= Model 7400
B= Models 7420 and 7440

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Fan Assembly, Lift Motor Compartment

Figure 5-30: Fan Assembly, Lift Motor Compartment



R1018882_A

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List 5-30: Fan Assembly, Lift Motor Compartment

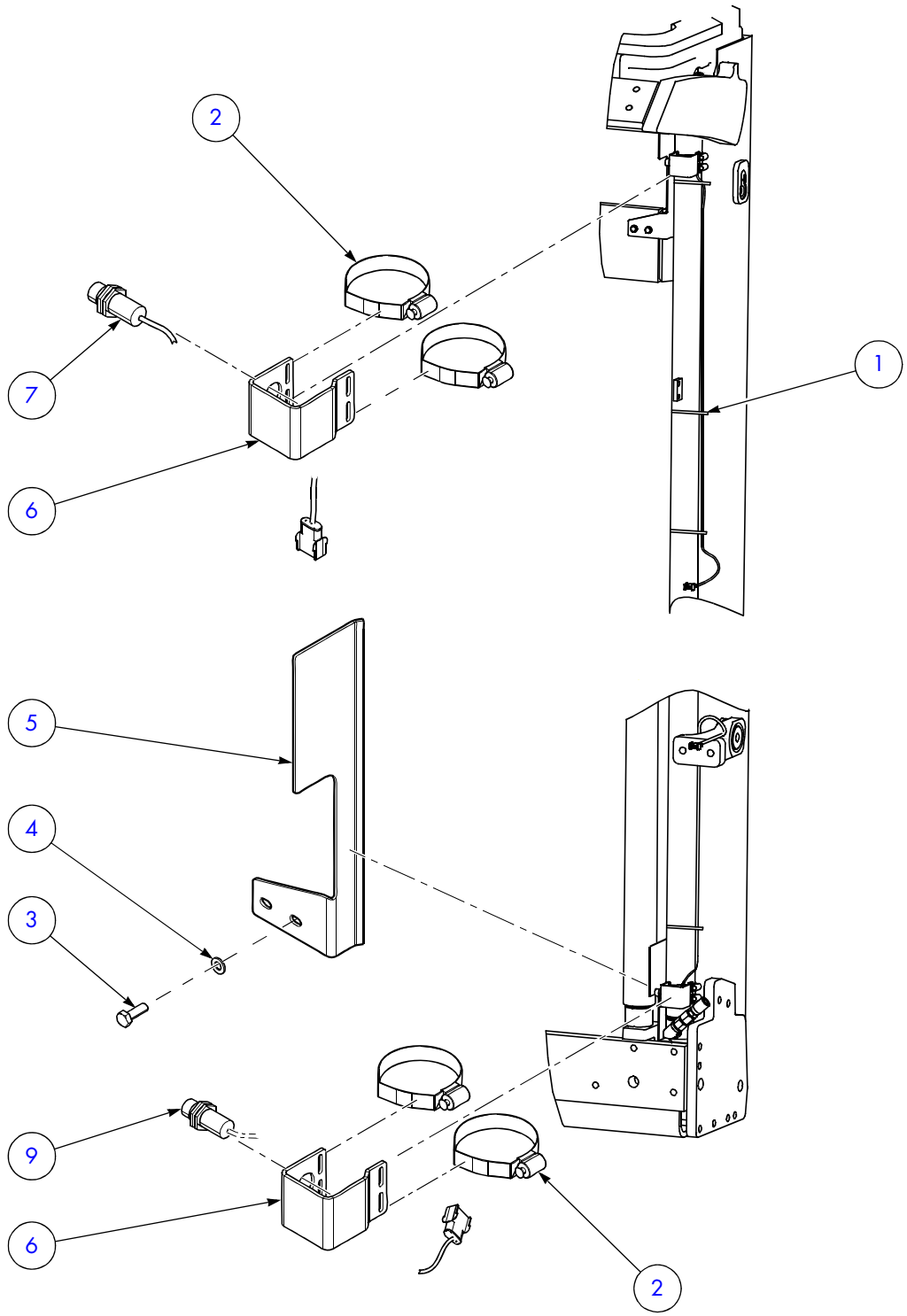
FIGURE 5-30 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1018881	Fan Assembly, Lift Motor Compartment, AC Lift	A
	1	1018882	Fan Assembly, Lift Motor Compartment, DC Lift	B
1	1	1018228	Bracket, Fan	
2	1	1018535/004	Fan, Lift Motor Compartment, AC Lift	A
3	1	1012627/002	Fan, Lift Motor Compartment, AC and DC Lift	
4	1	1012627/004	Fan, Lift Motor Compartment, DC Lift	B
5	1	590-909	Guard, Fan	
7	4	5-010-015	Screw	A
8	4	5-010-035	Screw	
9	8	5-016-002	Nut, Nylon Locking	

A= AC Lift Motor
B= DC Lift Motor (Uses 2 of Item 5 and 8 of Item 8)

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Speed Limiting Switch (S12) Installation (Proximity) 7400

Figure 5-31a: Speed Limiting Switch (S12) Installation (Proximity) 7400

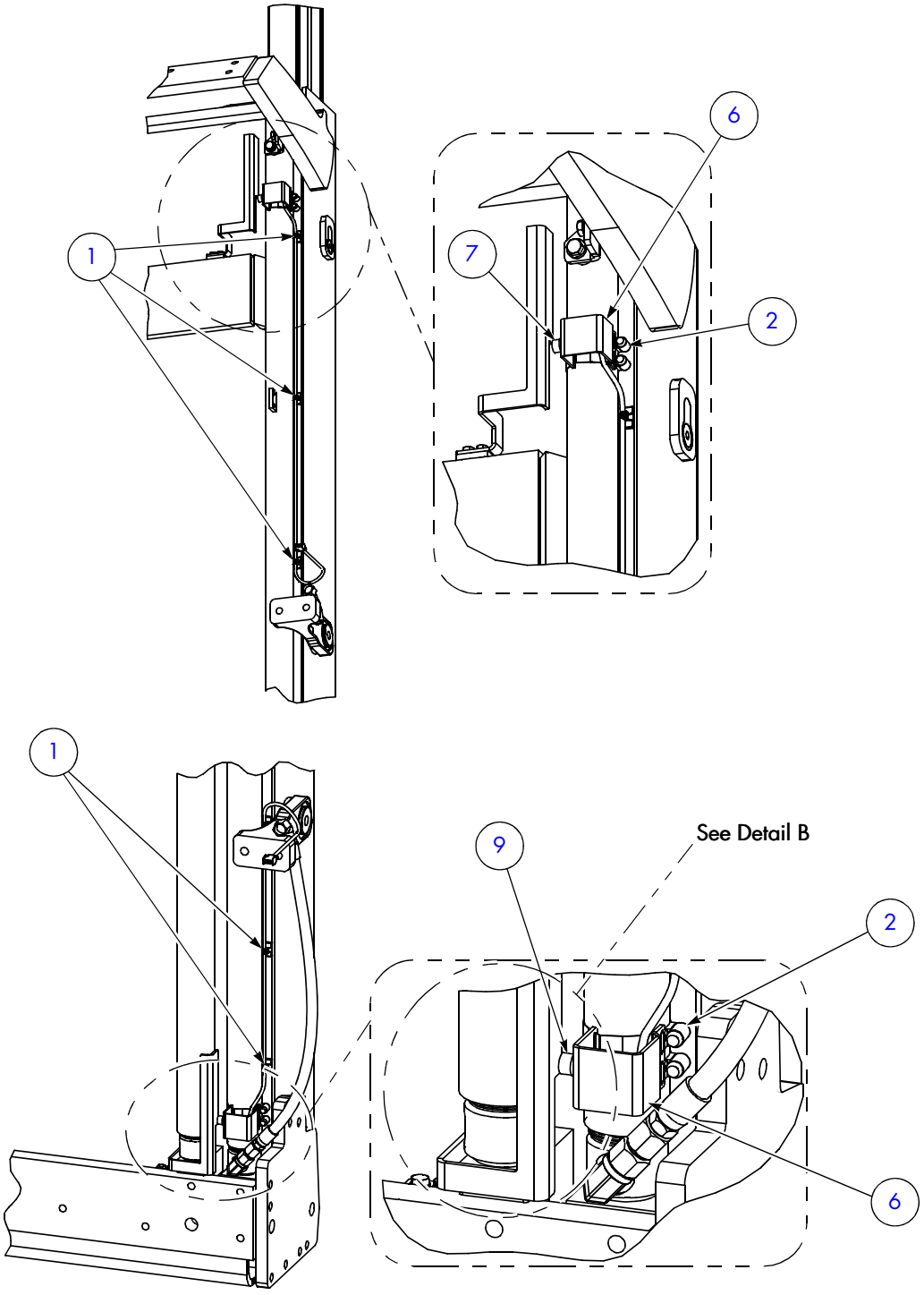


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Speed Limiting Switch (S12) Installation (Proximity) 7400

Figure 5-31b: Speed Limiting Switch (S12) Installation (Proximity) 7400

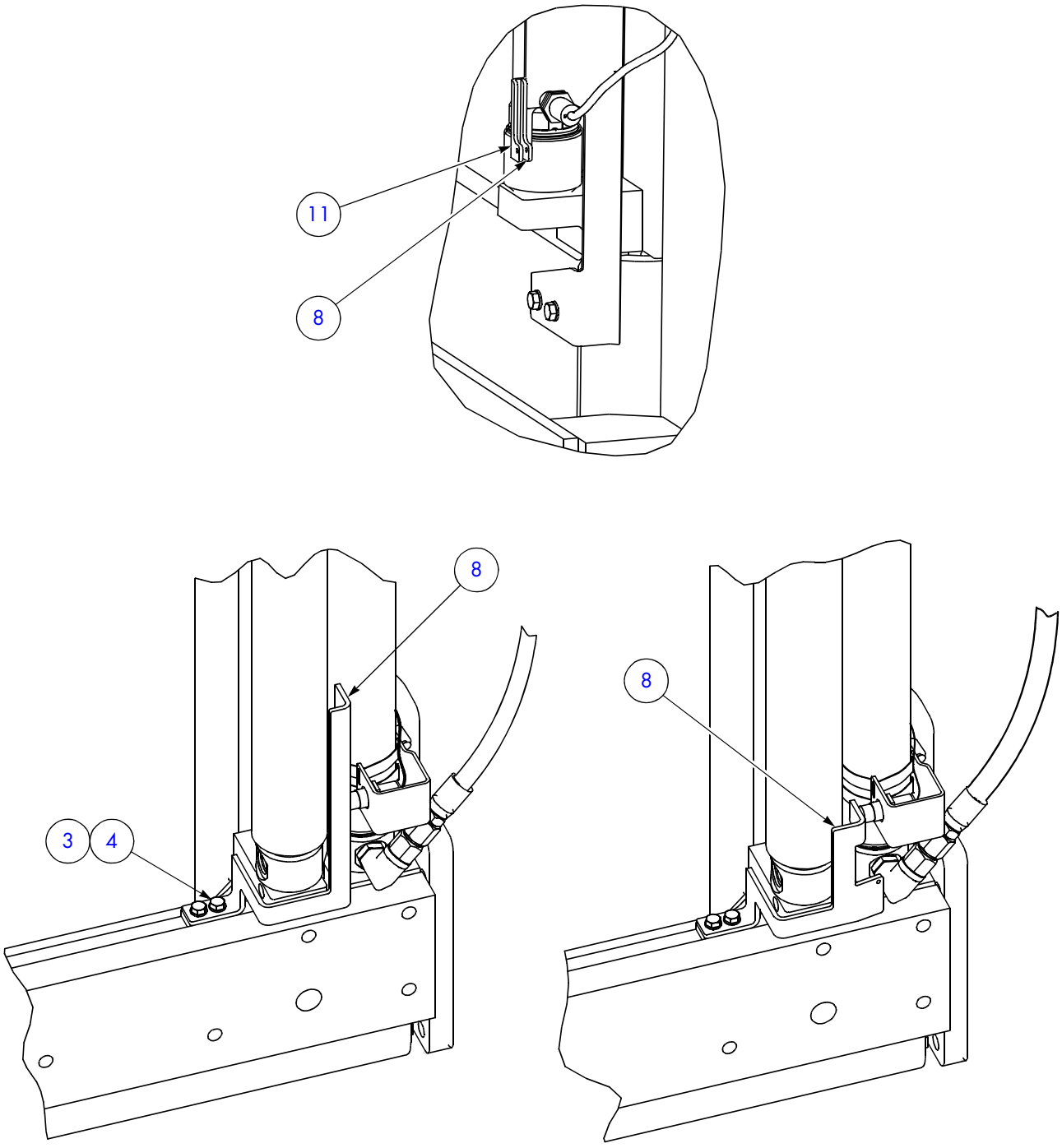


1078125_C1 1078125_C2 SHT 2 OF 3

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Speed Limiting Switch (S12) Installation (Proximity) 7400

Figure 5-31c: Speed Limiting Switch (S12) Installation (Proximity) 7400



Under 155 in. OACH

Over 155 in. OACH

DETAIL B

1078125_C3 1078125_C4 1091619_C2 SHT 3 OF 3

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List 5-31: Speed Limiting Switch (S12) Installation (Proximity) 7400

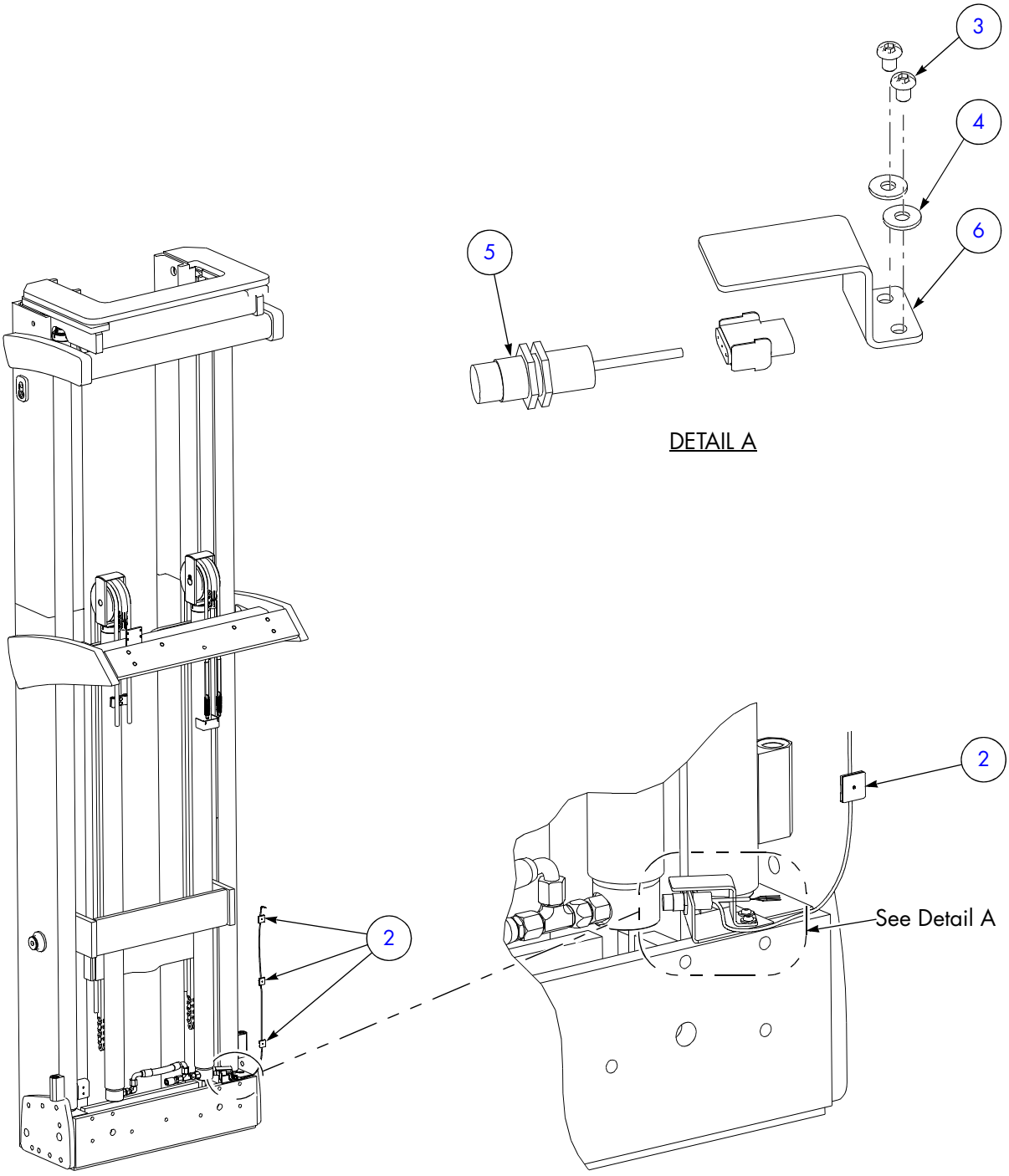
FIGURE 5-31 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-029	Cable Tie	
2	4	309732-000	Clamp, Hose	
3	2	5-001-009	Screw	
4	2	5-018-006	Washer, Flat	
5	1	1103932/001	Flag, Indicator (All Except 100 to 105 in. OACH)	
	1	1103932/002	Flag, Indicator (100 to 105 in. OACH only)	
6	2	1077677	Bracket, Sensor Housing	
7	1	1078925/001	Sensor Assembly, Proximity Switch (87 to 99 in. OACH)	
	1	1078925/002	Sensor Assembly, Proximity Switch (100 to 114 in. OACH)	
	1	1078925/003	Sensor Assembly, Proximity Switch (115 to 121 in. OACH)	
	1	1078925/004	Sensor Assembly, Proximity Switch (122 to 155 in. OACH)	
8	1	1103933	Flag, Indicator (R45TT and DR32TT)	
9	1	1031427/001	Switch, Proximity, First Speed Limiting (S12)	R
10	1	1084983	Wire, Extension (Not Shown)	
11	1	1103934	Flag, Indicator (R35TT)	

R= Recommended Spare

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Speed Limiting Switch (S12) Installation (Proximity), 7420 and 7440

Figure 5-32: Speed Limiting Switch (S12) Installation (Proximity), 7420 and 7440



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List 5-32: Speed Limiting Switch (S12) Installation (Proximity), 7420 and 7440

FIGURE 5-32 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-029	Cable Tie (Not Shown)	
2	AR	611-044	Anchor, Cable Tie, Adhesive-Backed	
3	2	5-003-010	Screw	
4	2	7-771-206	Washer, Flat	
5	1	1031427/001	Switch, Proximity, First Speed Limiting (S12)	R
6	1	1051219	Cover, Speed Limiting Switch, Proximity, Models 7420 and 7440	

R= Recommended Spare

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Speed Limiting Switch (S12) Installation (Proximity), 7420 and 7440

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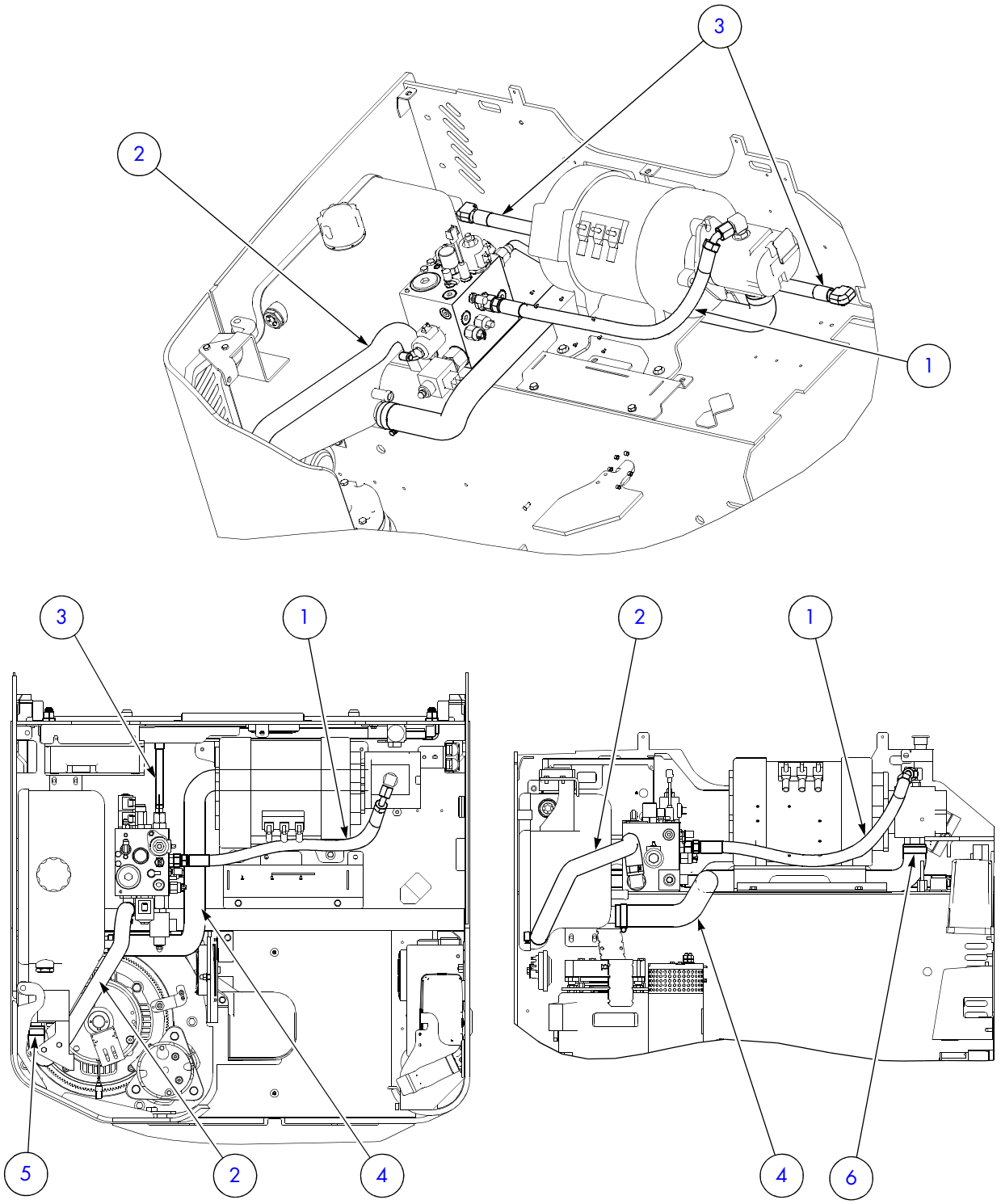
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Hose Installation, Fore-Aft, AC Lift (Model 7400 EH < 331 in.)

Figure 6-1: Hose Installation, Fore-Aft, AC Lift (Model 7400 EH < 331 in.)



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List 6-1: Hose Installation, Fore-Aft, AC Lift (Model 7400 EH < 331 in.)

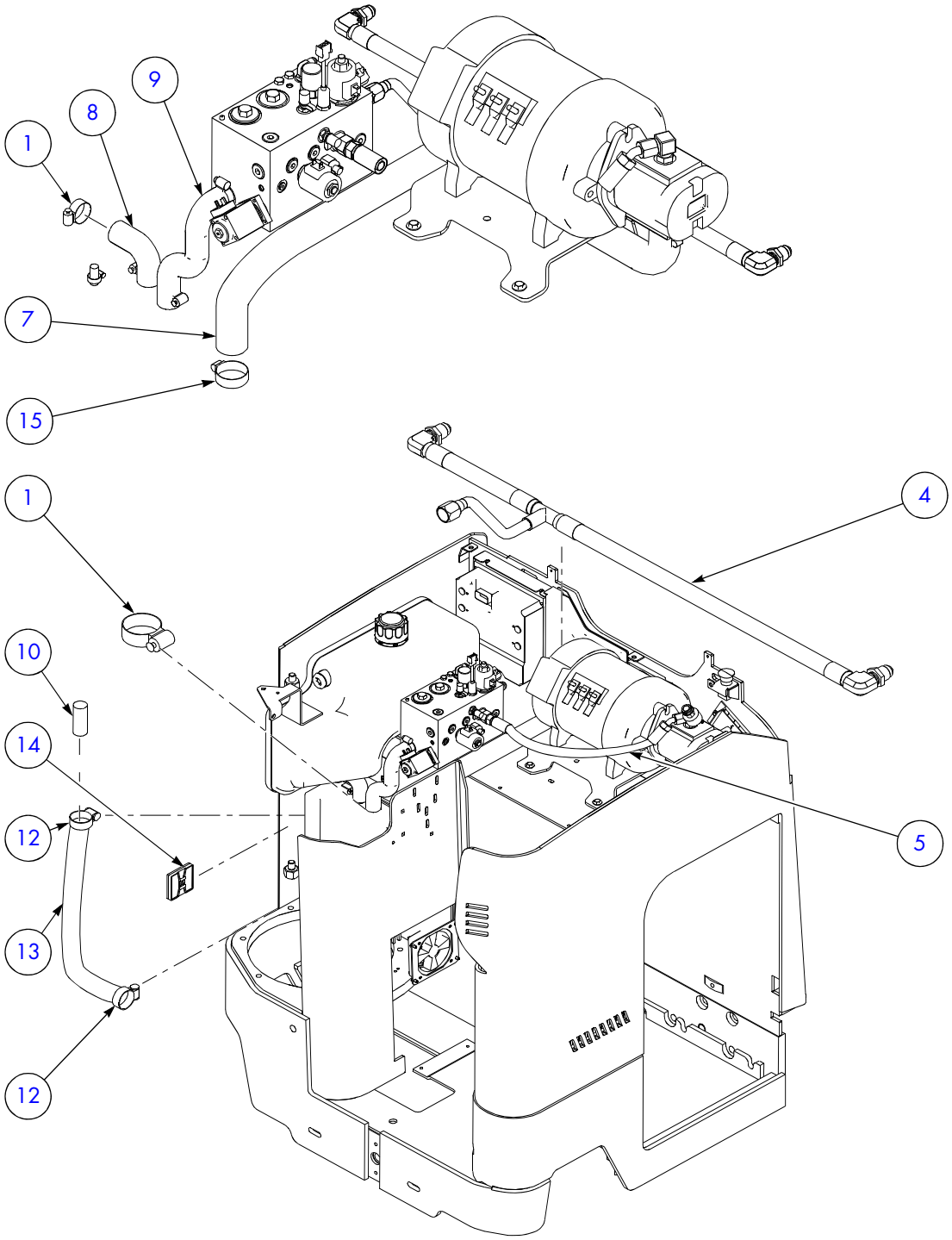
FIGURE 6-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1071800/001	Hose Assembly, Manifold P1 to Lift Pump Out, AC Lift, Fore-Aft	
2	1	1013873	Hose, Return, Manifold TANK to Reservoir, AC Lift, Fore-Aft	
3	1	1012872/001	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, AC Lift, Fore-Aft	A
	1	1012872/002	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, AC Lift, Fore-Aft	B
4	1	1009574	Hose, Suction, Lift Pump to Reservoir, AC Lift, Fore-Aft	
5	2	811-925/005	Clamp, Hose	
6	2	811-921	Clamp, Hose	

A= 18.5 in. Battery Compartment
B= 21.5 in. Battery Compartment

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Hose Installation, Fore-Aft, AC Lift (Models 7400 EH > 330 in., 7420, 7440)

Figure 6-2: Hose Installation, Fore-Aft, AC Lift (Models 7400 EH > 330 in., 7420, 7440)



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List 6-2: Hose Installation, Fore-Aft, AC Lift (Models 7400 EH > 330 in., 7420, 7440)

FIGURE 6-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	811-925/005	Clamp, Hose	
4	1	1012872/001	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, AC Lift, Fore-Aft	A
	1	1012872/002	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, AC Lift, Fore-Aft	B
5	1	1071800/001	Hose Assembly, Manifold P1 to Lift Pump Out, AC Lift, Fore-Aft	
7	1	1034926	Hose, Suction, Lift Pump to Reservoir, AC Lift, Fore-Aft	
8	1	1035734	Hose, Auxiliary Reservoir to Reservoir, AC Lift, Fore-Aft	
9	1	1046018	Hose, Return, Manifold TANK to Reservoir, AC Lift, Fore-Aft	
10	1	114-006-620	Plug	
11	AR	611-029	Tie, Cable (Not Shown)	
12	2	811-926	Clamp, Hose	
13	1	828-005-705/003	Hose, Drain	
14	AR	611-044	Anchor, Cable Tie, Adhesive-Backed	
15	2	811-921	Clamp, Hose	

A= 18.5 in. Battery Compartment
B= 21.5 in. Battery Compartment

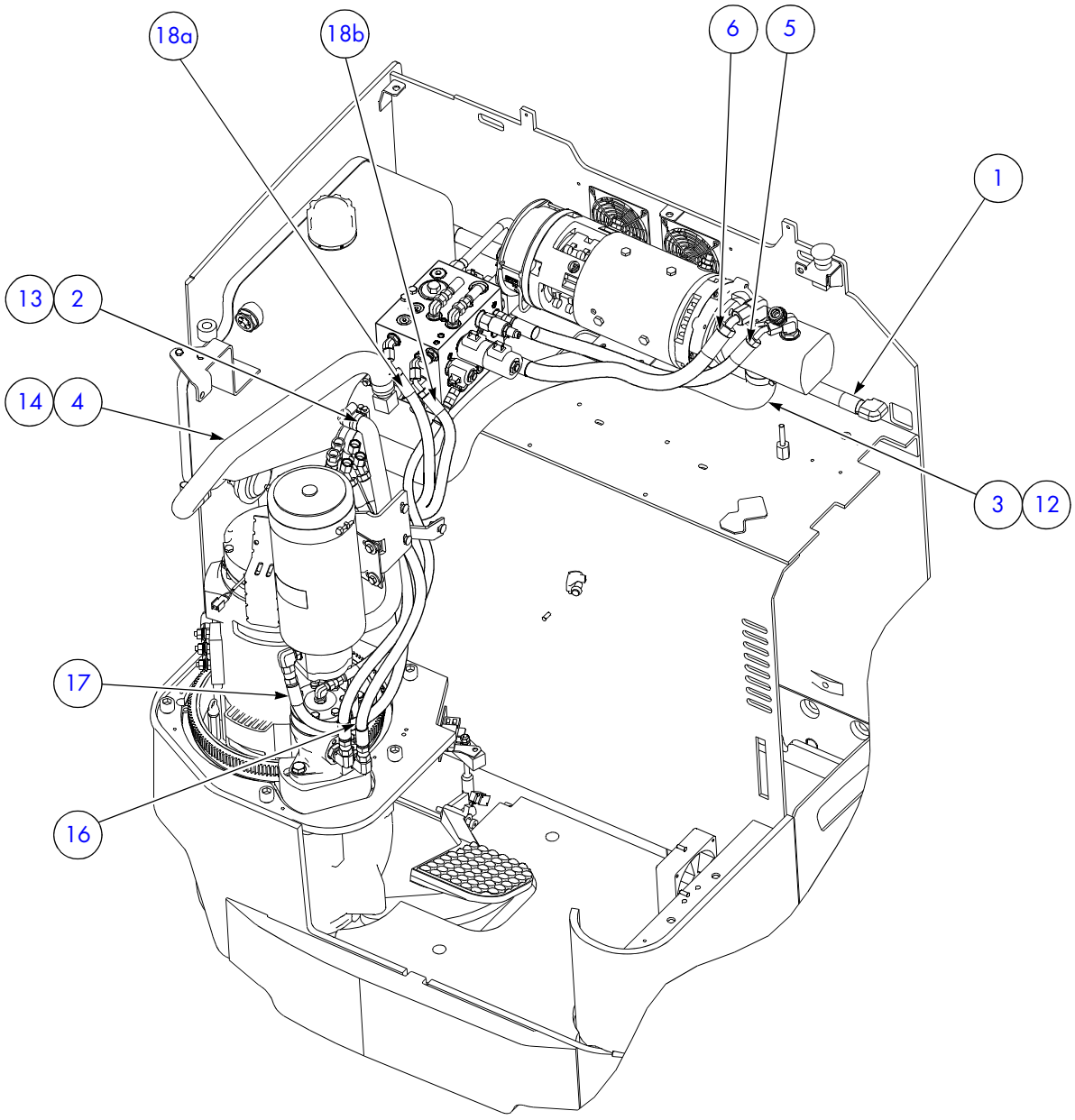
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Hose Installation, Fore-Aft, DC Lift Motor

Figure 6-3a: Hose Installation, Fore-Aft, DC Lift Motor

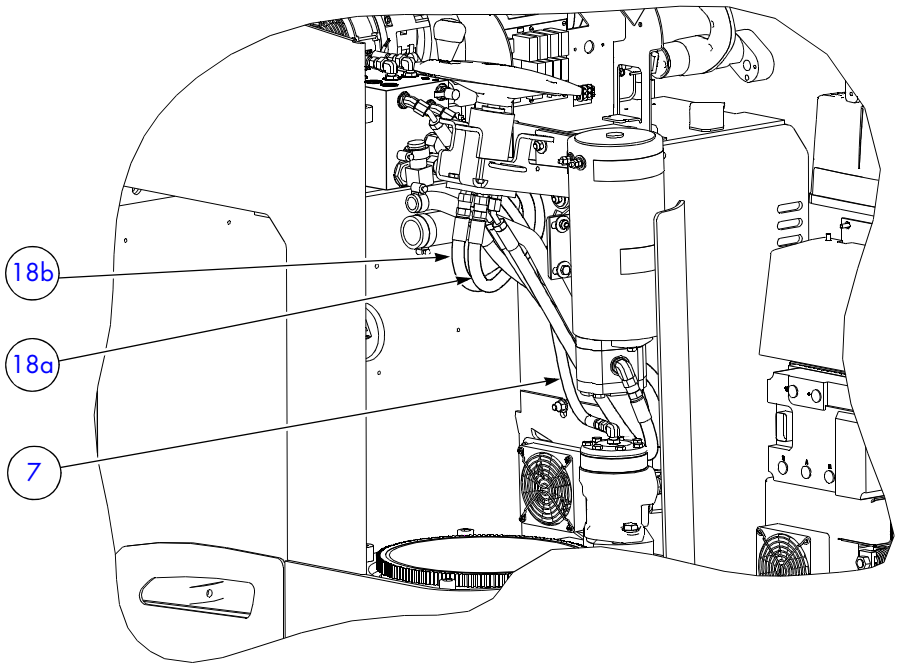


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Hose Installation, Fore-Aft, DC Lift Motor

Figure 6-3b: Hose Installation, Fore-Aft, DC Lift Motor



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List 6-3: Hose Installation, Fore-Aft, DC Lift Motor

FIGURE 6-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1020908/002	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, DC Lift, Fore-Aft	A
	1	1020908/003	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, DC Lift, Fore-Aft	B
2	1	1013491	Hose, Suction, Steer/Auxiliary Pump to Reservoir, DC Lift, Fore-Aft	
3	1	1009679	Hose, Suction, Lift Pump to Reservoir, DC Lift, Fore-Aft	
4	1	1013871	Hose, Return, Manifold TANK to Reservoir, DC Lift, Fore-Aft	
5	1	1071799/006	Hose Assembly, Manifold P2 to Lift Pump 2, DC Lift, Fore-Aft	C
6	1	1071800/002	Hose Assembly, Manifold P1 to Lift Pump 1, DC Lift, Fore-Aft	
7	1	1071798/020	Hose Assembly, Manifold CASE DRAIN to Steer Motor Case, DC Lift, Fore-Aft	
12	2	811-921	Clamp, Hose	
13	2	811-925/004	Clamp, Hose	
14	2	811-925/005	Clamp, Hose	
16	1	1001288/045	Hose Assembly, Orbitrol L or R to Steer Motor R, DC Lift, Fore-Aft	
17	1	1030162/002	Hose Assembly, Orbitrol P to Steer/Auxiliary Pump Out, DC Lift, Fore-Aft	
18a	1	1030162/011	Hose Assembly, Manifold S-RET to Orbitrol T, DC Lift, Fore-Aft	
18b	1	1030162/011	Hose Assembly, Manifold PWR BYND to Orbitrol E, DC Lift, Fore-Aft	

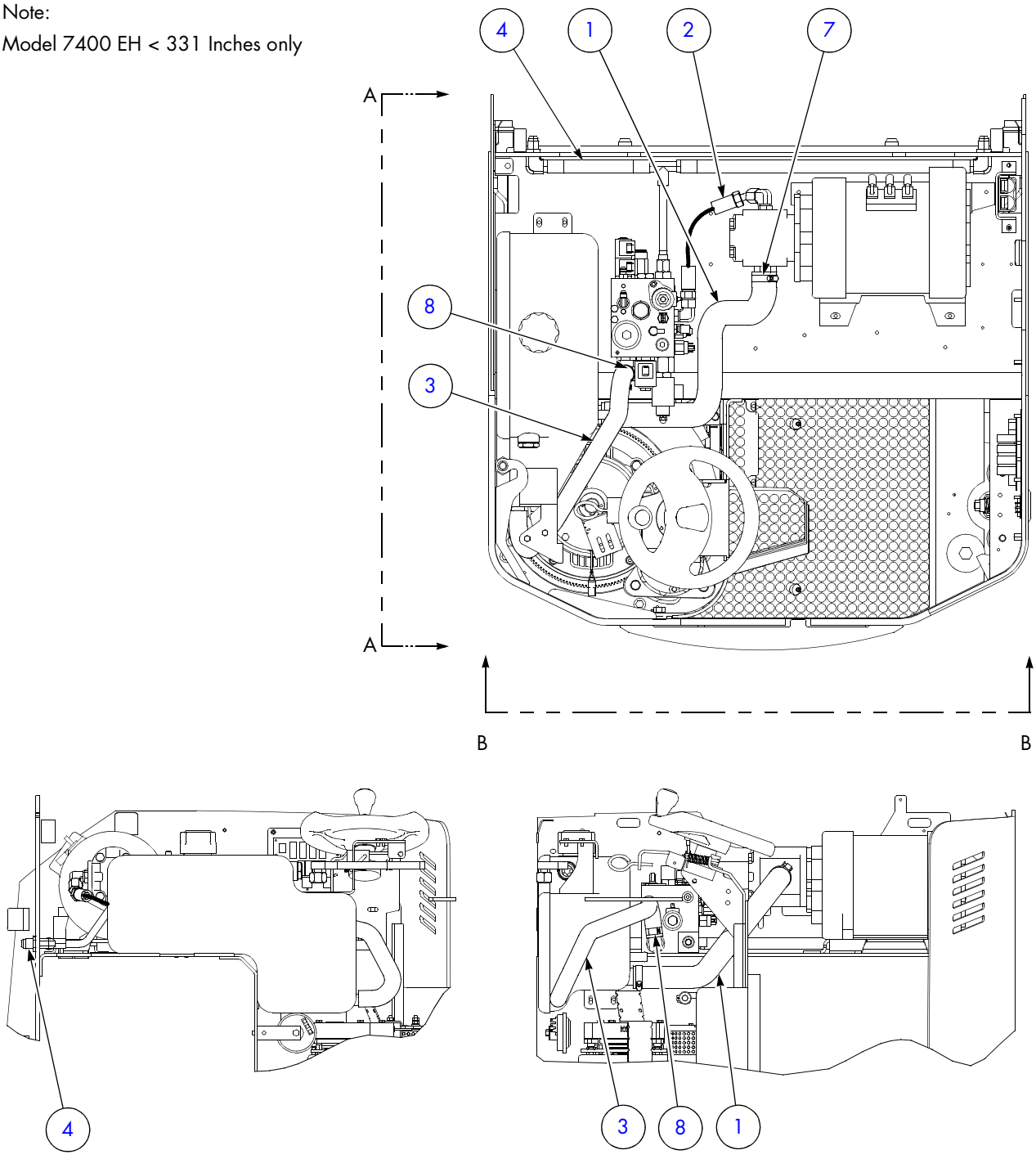
A= 16.5 in. Battery Compartment
B= 18.5 in. Battery Compartment
C= Dual Lift Pump

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Hose Installation, Side Stance, AC Lift Motor, No Aux Reservoir

Figure 6-4a: Hose Installation, Side Stance, AC Lift Motor, No Aux Reservoir

Note:
Model 7400 EH < 331 Inches only



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List 6-4: Hose Installation, Side Stance, AC Lift Motor, No Aux Reservoir

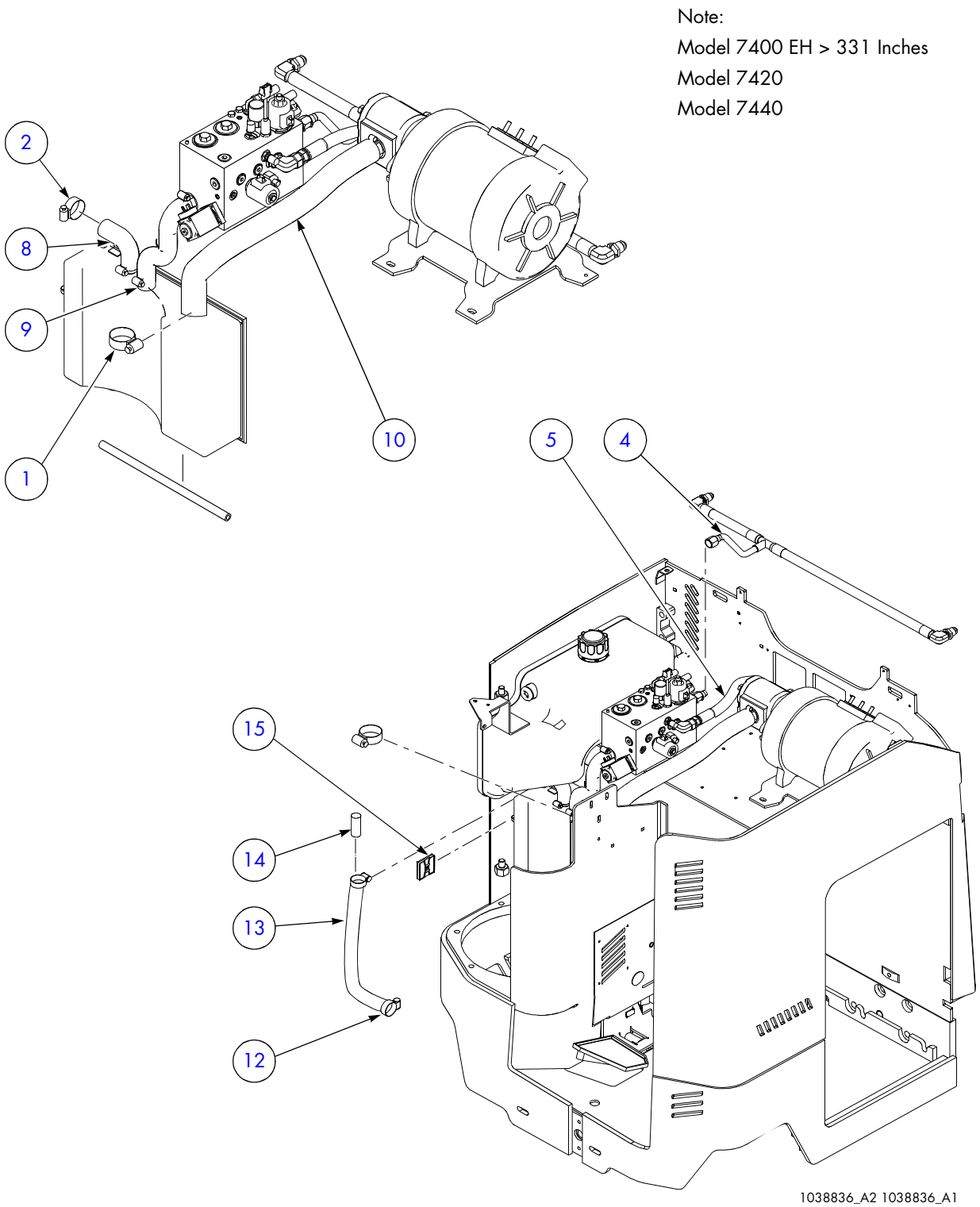
FIGURE 6-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1020725	Hose, Lift Suction	
2	1	828-013-468/002	Hose Assembly, Manifold P1 to Lift Pump Out, AC Lift, Side Stance	
3	1	1013873	Hose, Return, Manifold TANK to Reservoir, AC Lift, Side Stance	
4	1	1012872/001	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, AC Lift, Side Stance	A
	1	1012872/002	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, AC Lift, Side Stance	B
7	2	811-921	Clamp, Hose	
8	1	811-925/005	Clamp, Hose	

A= 18.5 in. Battery Compartment
B= 21.5 in. Battery Compartment

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Hose Installation, Side Stance, AC Lift Motor, Aux Reservoir

Figure 6-5: Hose Installation, Side Stance, AC Lift Motor, Aux Reservoir



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List 6-5: Hose Installation, Side Stance, AC Lift Motor, Aux Reservoir

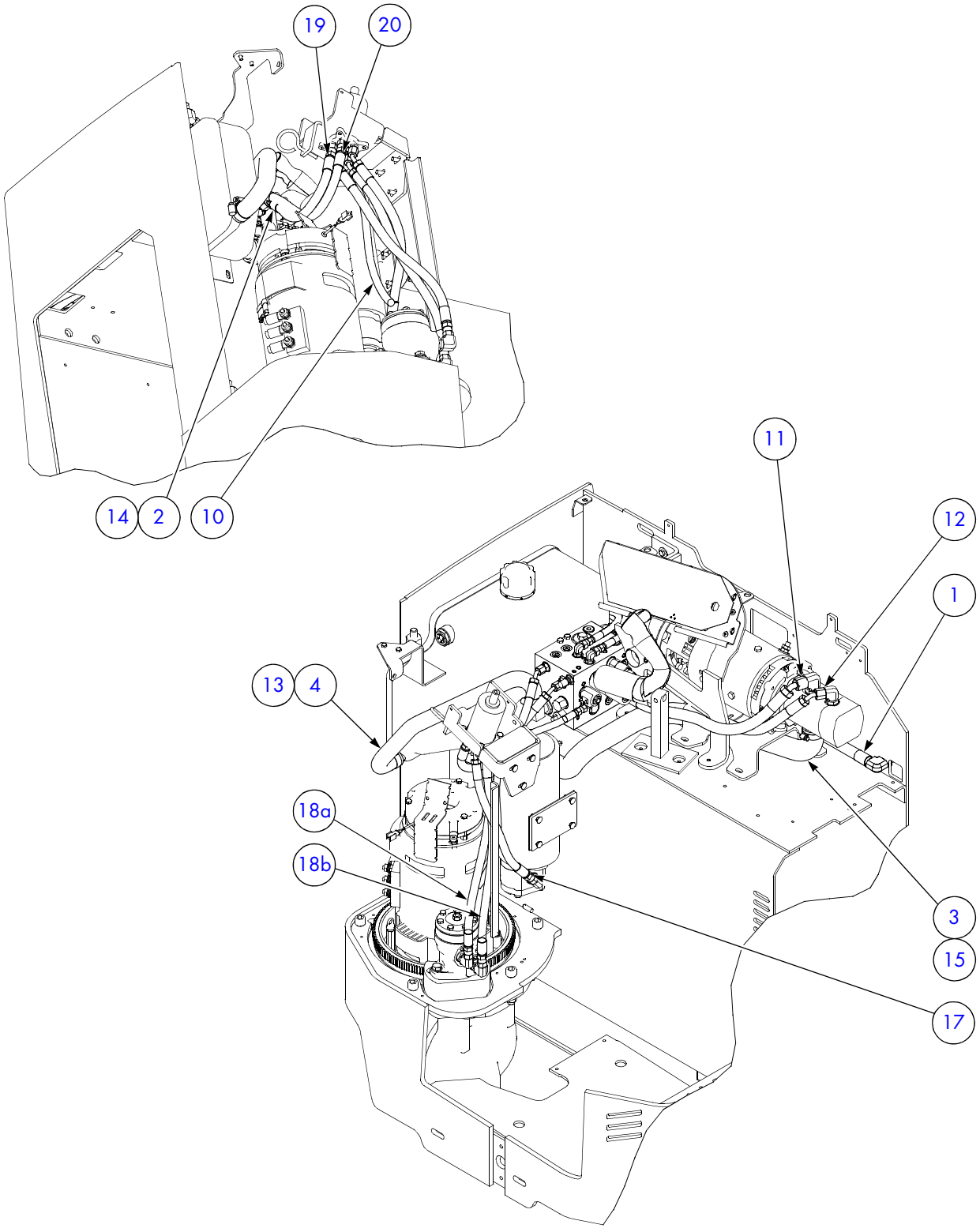
FIGURE 6-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	811-921	Clamp, Hose	
2	4	811-925/005	Clamp, Hose	
4	1	1012872/001	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, AC Lift, Side Stance	A
	1	1012872/002	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, AC Lift, Side Stance	B
5	1	828-013-468/002	Hose Assembly, Manifold P1 to Lift Pump Out, AC Lift, Side Stance	
8	1	1035734	Hose, Auxiliary Reservoir to Reservoir, AC Lift, Side Stance	C
9	1	1046018	Hose, Return, Manifold TANK to Reservoir, AC Lift, Side Stance	C
10	1	1035903	Hose, Suction, Lift Pump to Reservoir, AC Lift, Side Stance	C
11	AR	611-029	Tie, Cable (Not Shown)	C
12	2	811-926	Clamp, Hose	C
13	1	828-005-705/003	Hose, Drain	C
14	1	114-006-620	Plug	C
15	1	611-044	Anchor, Cable Tie, Adhesive-Backed	C

A= 18.5 in. Battery Compartment
B= 21.5 in. Battery Compartment
C= Above 330 in. Elevated Height

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Hose Installation, Side Stance, DC Lift Motor

Figure 6-6: Hose Installation, Side Stance, DC Lift Motor



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List 6-6: Hose Installation, Side Stance, DC Lift Motor

FIGURE 6-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1020908/002	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, DC Lift, Side Stance	A
	1	1020908/003	Hose Assembly, Manifold CYL-1 and Tee to Bulkhead, DC Lift, Side Stance	B
2	1	1014433	Hose, Suction, Steer/Auxiliary Pump to Reservoir, DC Lift, Side Stance	
3	1	1021537	Hose, Suction, Lift Pump to Reservoir, DC Lift, Side Stance	
4	1	1013871	Hose, Return, Manifold TANK to Reservoir, DC Lift, Side Stance	
10	1	1071798/019	Hose Assembly, Manifold CASE DRAIN to Steer Motor Case, DC Lift, Side Stance	
11	1	1071800/003	Hose Assembly, Manifold P1 to Lift Pump 1, DC Lift, Side Stance	
12	1	1071799/005	Hose Assembly, Manifold P2 to Lift Pump 2, DC Lift, Side Stance	C
13	2	811-925/005	Clamp, Hose	
14	2	811-925/004	Clamp, Hose	
15	2	811-921	Clamp, Hose	
17	1	1030162/003	Hose Assembly, Orbitrol P to Steer/Auxiliary Pump Out, DC Lift, Side Stance	
18a	1	1001288/044	Hose Assembly, Orbitrol L to Steer Motor L, DC Lift, Side Stance	
18b	1	1001288/044	Hose Assembly, Orbitrol R to Steer Motor R, DC Lift, Side Stance	
19	1	1030162/009	Hose Assembly, Manifold PWR BYND to Orbitrol E, DC Lift, Side Stance	
20	1	1030162/010	Hose Assembly, Manifold S-RET to Orbitrol T, DC Lift, Side Stance	

A= 16.5 in. Battery Compartment
B= 18.5 in. Battery Compartment
C= Dual Lift Pump

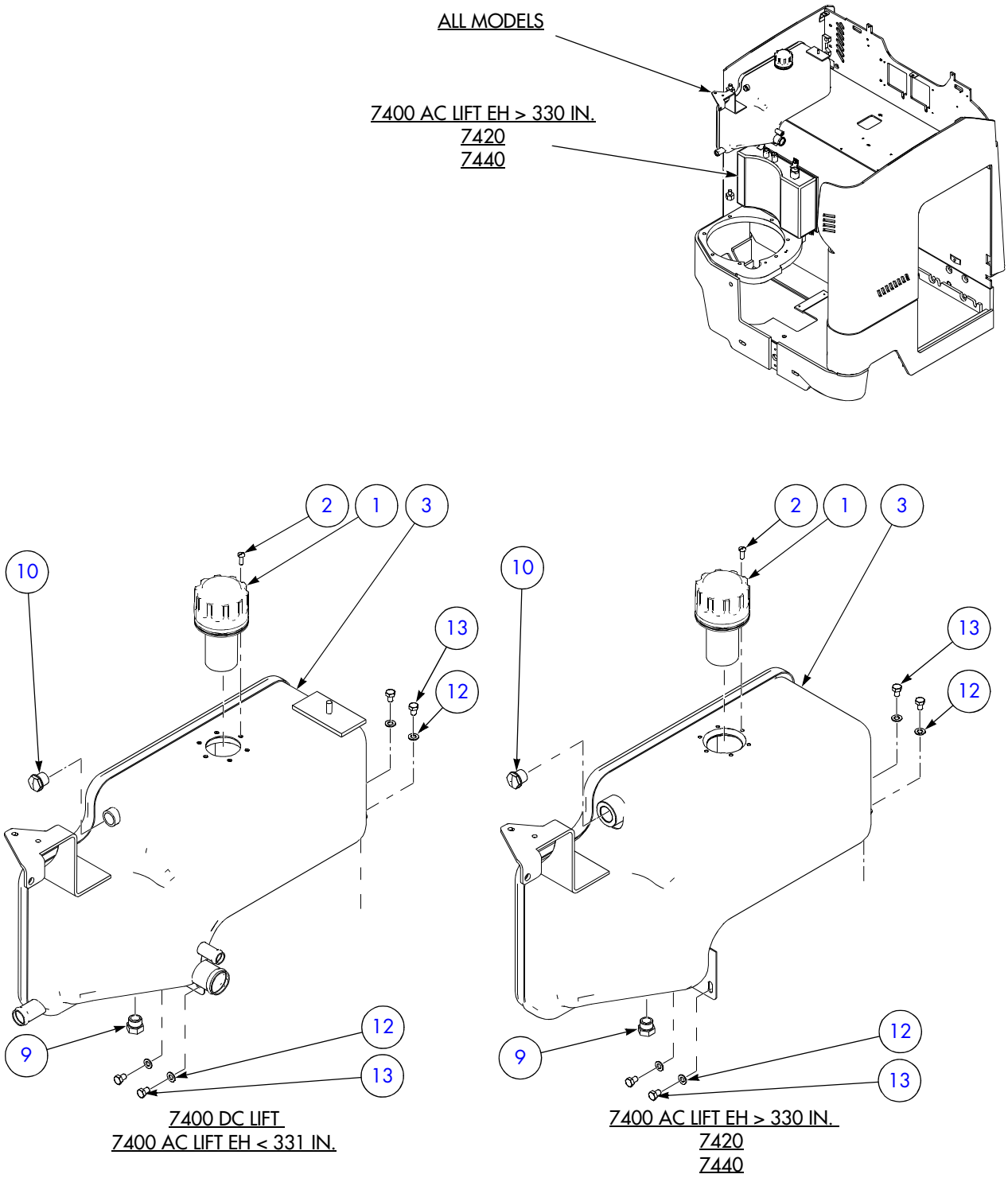
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Reservoir Assembly

Figure 6-7a: Reservoir Assembly

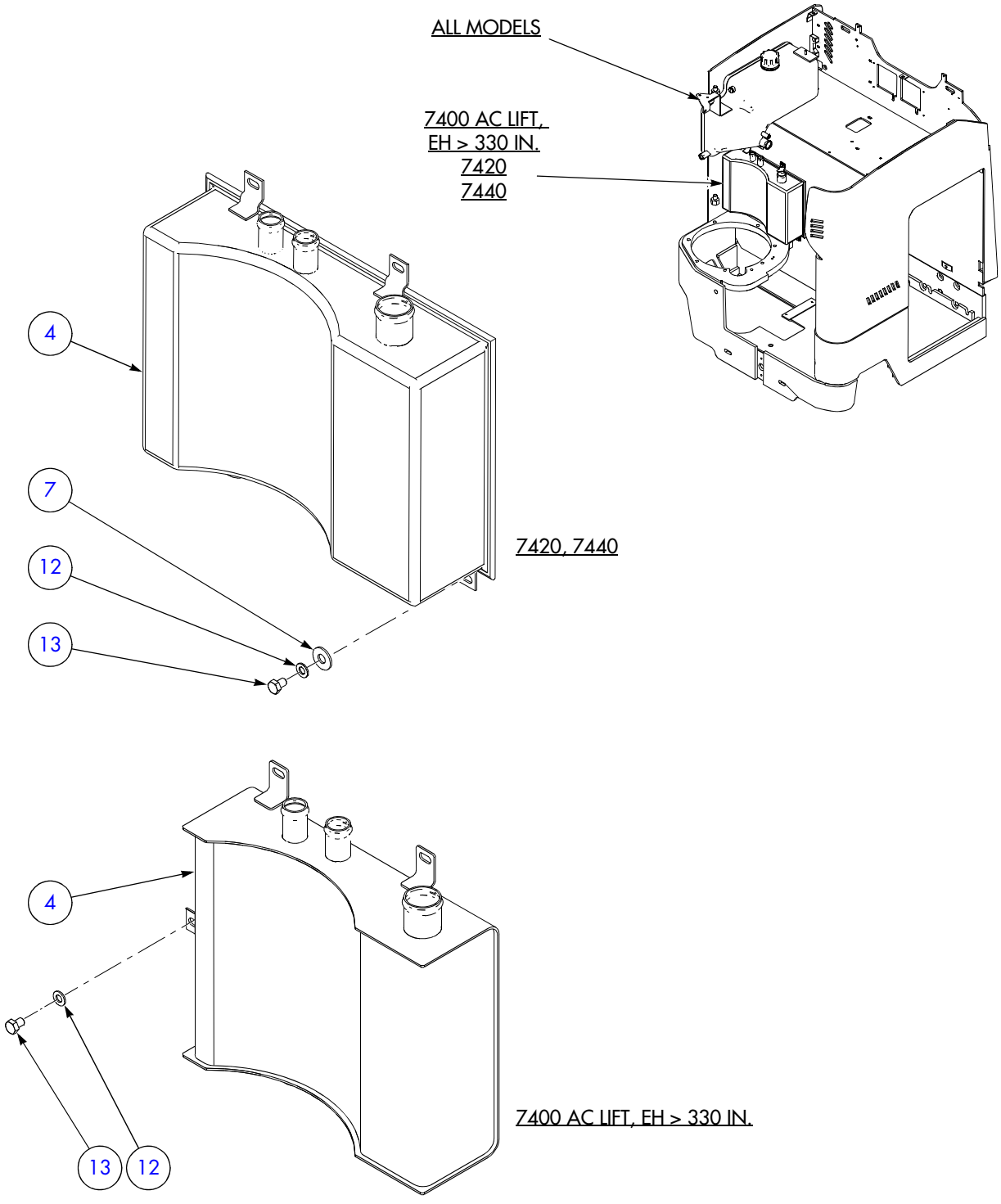


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Reservoir Assembly

Figure 6-7b: Reservoir Assembly



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List 6-7: Reservoir Assembly

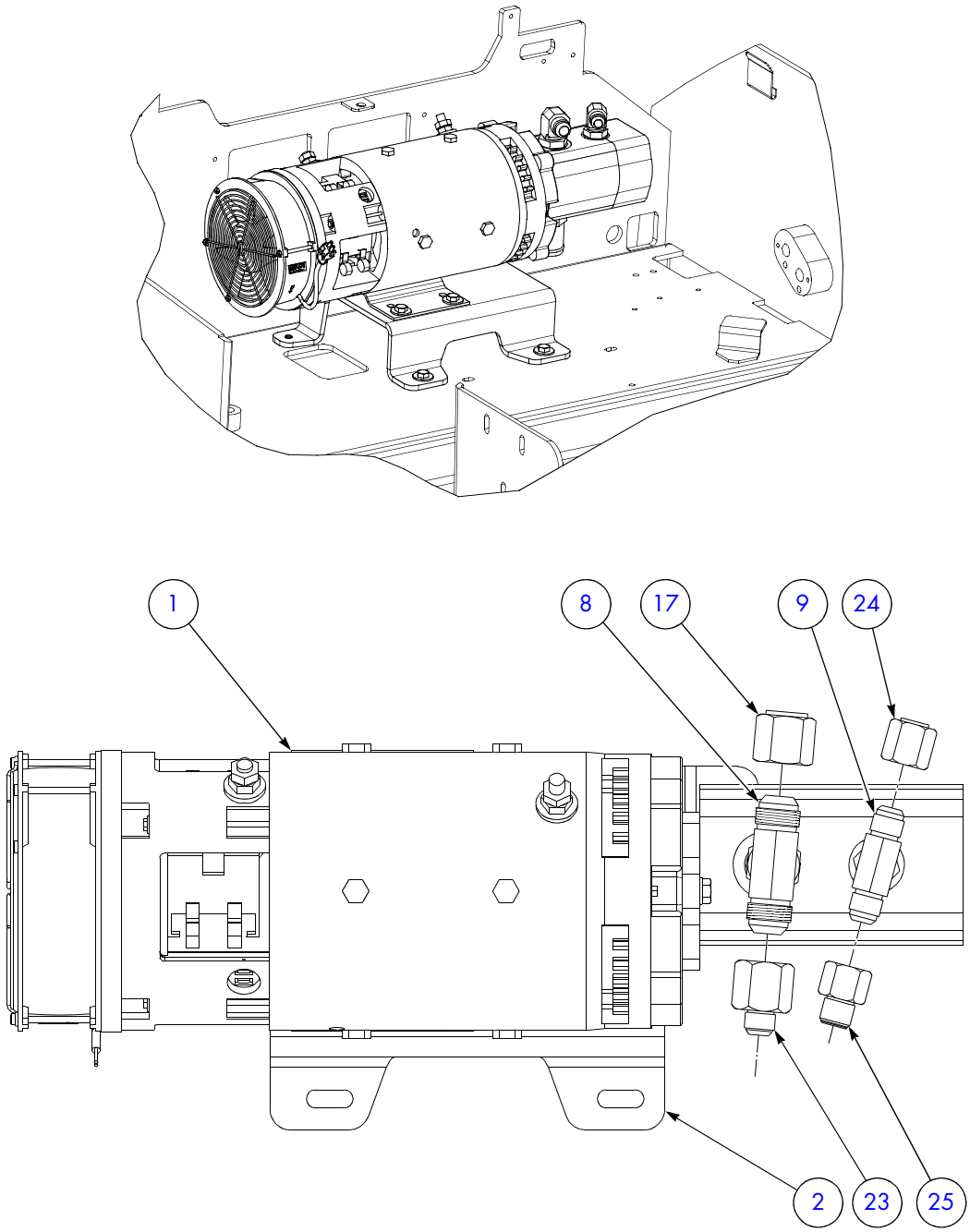
FIGURE 6-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	850-523	Cap, Filler, Breather	
2	6	5-010-017	Screw	
3	1	1059245/001	Reservoir, DC Lift	A
	1	1059245/002	Reservoir, AC Lift, Fore-Aft, Model 7400, EH < 331 in.	B
	1	1059245/003	Reservoir, AC Lift, Side Stance, Model 7400, EH < 331 in.	C
		1059245/004	Reservoir, AC Lift, Fore-Aft, Model 7400 EH > 330 in., Models 7420 and 7440	D, F
		1059245/005	Reservoir, AC Lift, Side Stance, Model 7400 EH > 330 in., Models 7420 and 7440	E, G
4	1	1024003	Reservoir, Auxiliary, Model 7400 EH > 330 in.	D, E
	1	1044912	Reservoir, Auxiliary, Models 7420 and 7440	F, G
7	3	1015286	Washer, Nylon	F, G
9	1	1039133	Plug, Magnetic	
10	1	802-034	Gauge, Sight	
12	7	5-018-006	Washer, Flat	
13	7	5-001-006	Screw	

A= DC Lift
B= AC Lift, Fore-Aft Stance, Model 7400 EH < 331 in.
C= AC Lift, Side Stance, Model 7400 EH < 331 in.
D= AC Lift, Fore-Aft Stance, Model 7400 EH > 330 in.
E= AC Lift, Side Stance, Model 7400 EH > 330 in.
F= AC Lift, Fore-Aft Stance, Models 7420 and 7440
G= AC Lift, Side Stance, Models 7420 and 7440

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Lift Pump and Motor Assembly, DC

Figure 6-8a: Lift Pump and Motor Assembly, DC

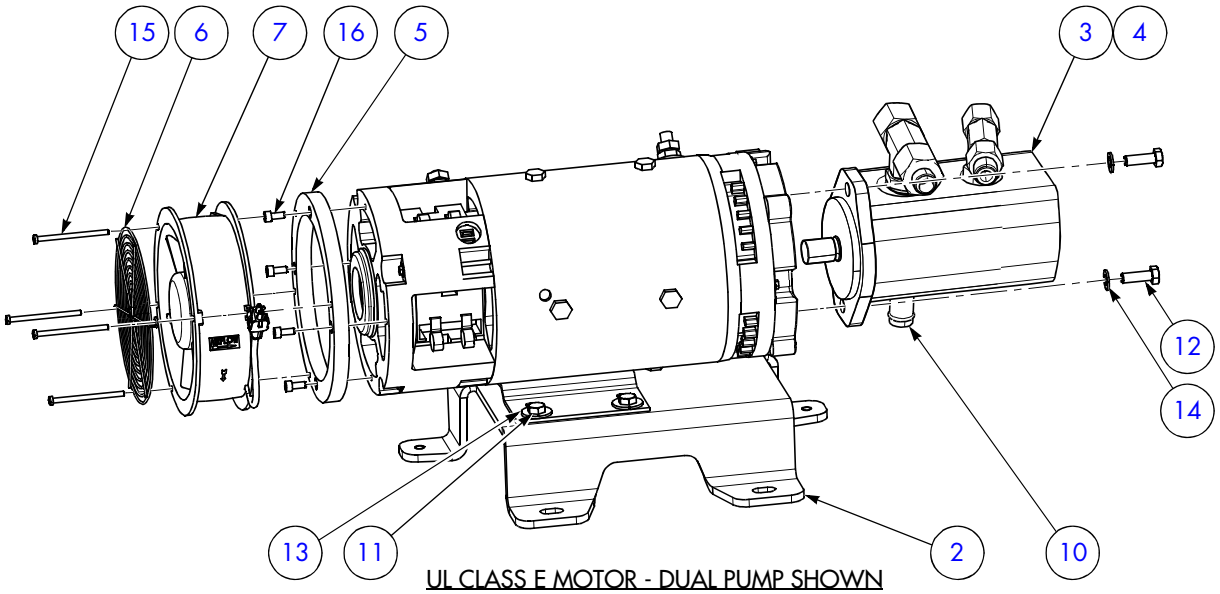


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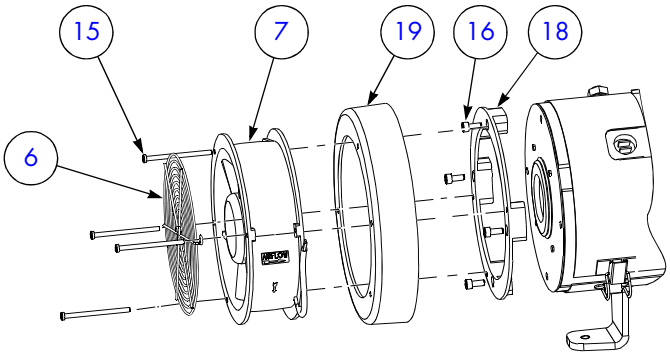
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Lift Pump and Motor Assembly, DC

Figure 6-8b: Lift Pump and Motor Assembly, DC



UL CLASS E MOTOR - DUAL PUMP SHOWN



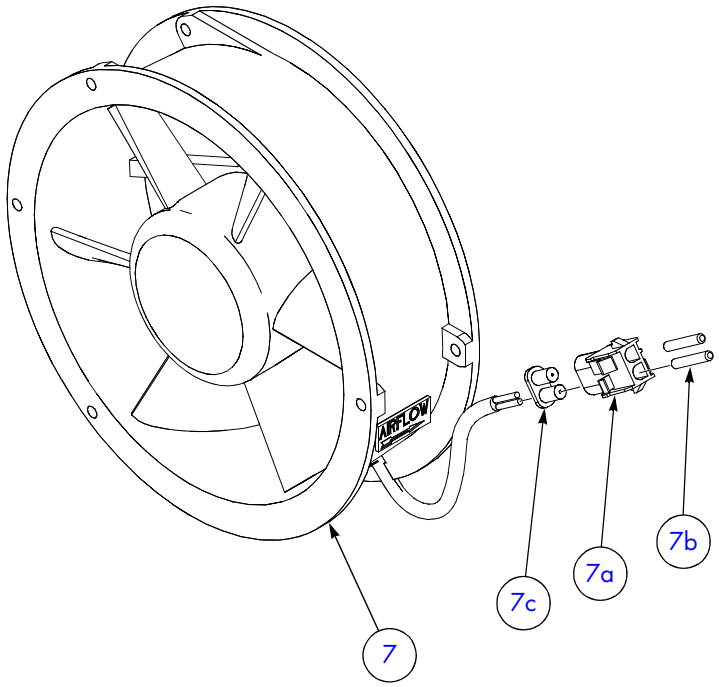
UL CLASS EE MOTOR

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Lift Pump and Motor Assembly, DC

Figure 6-8c: Lift Pump and Motor Assembly, DC



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List 6-8: Lift Pump and Motor Assembly, DC

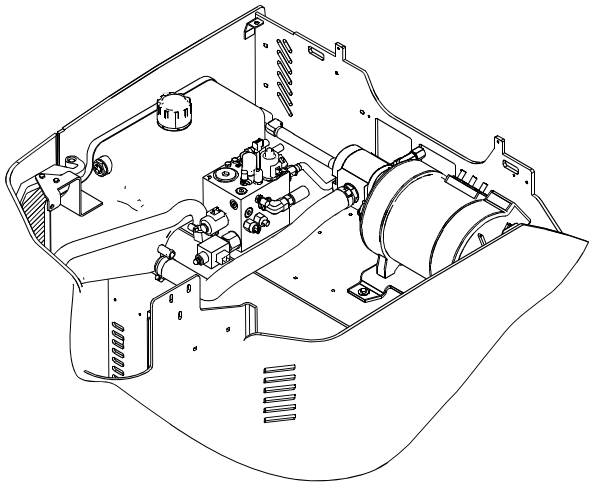
FIGURE 6-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1008685/500	Motor Assembly, DC Lift (See Figure 5-13.)	
	1	1019386/500	Motor Assembly, DC Lift (See Figure 5-13.)	A
2	1	1015148	Bracket, Lift Motor, DC	
3	1	500-488/200	Pump, Lift, DC, Single (See Figure 6-12.)	
4	1	1012363/100	Pump, Lift, DC, Dual (See Figure 6-13.)	
5	1	1008623	Shroud, Fan	
6	1	1012657	Guard, Finger	
7	1	1013489	Fan Assembly, DC Lift Motor (includes:)	
7a	1	1-012-070/04	Connector, Electrical	
7b	2	1-012-512/007	Pin, Contact	
7c	1	1-012-500/002	Seal, Connector	R
8	1	1048329	Fitting, Tee, #12, DC Lift Pump Outlet P1	
9	1	1041684	Fitting, Tee, #10, DC Lift Pump Outlet P2	
10	1	802-025/021	Fitting, Hose, DC Lift Pump Inlet	
11	4	5-001-007	Screw	
12	2	5-001-009	Screw	
13	4	5-018-012	Washer, Flat	
14	2	5-018-006	Washer, Flat	
15	4	7-701-004/060	Screw	
16	4	7-714-005/012	Screw	
17	1	792-456	Fitting, Cap #12	
18	1	1019609	Shroud, Fan	A
19	1	1019702	Deflector, Air	A
23	1	1049430	Fitting, Reducer, #12 x 10	
24	1	1041685	Fitting, Cap #10	
25	1	1048330	Fitting, Reducer, #10 x 8	

A= EE
R= Recommended Spare

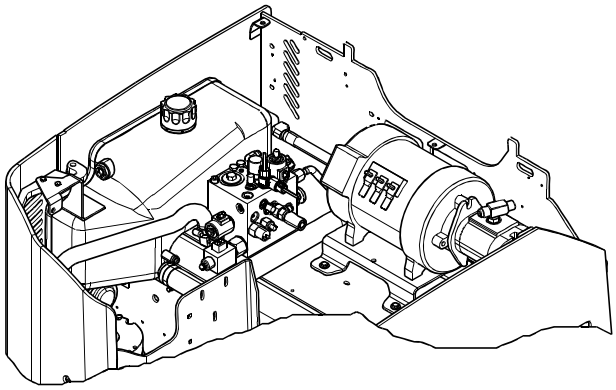
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Lift Pump and Motor Assembly, AC

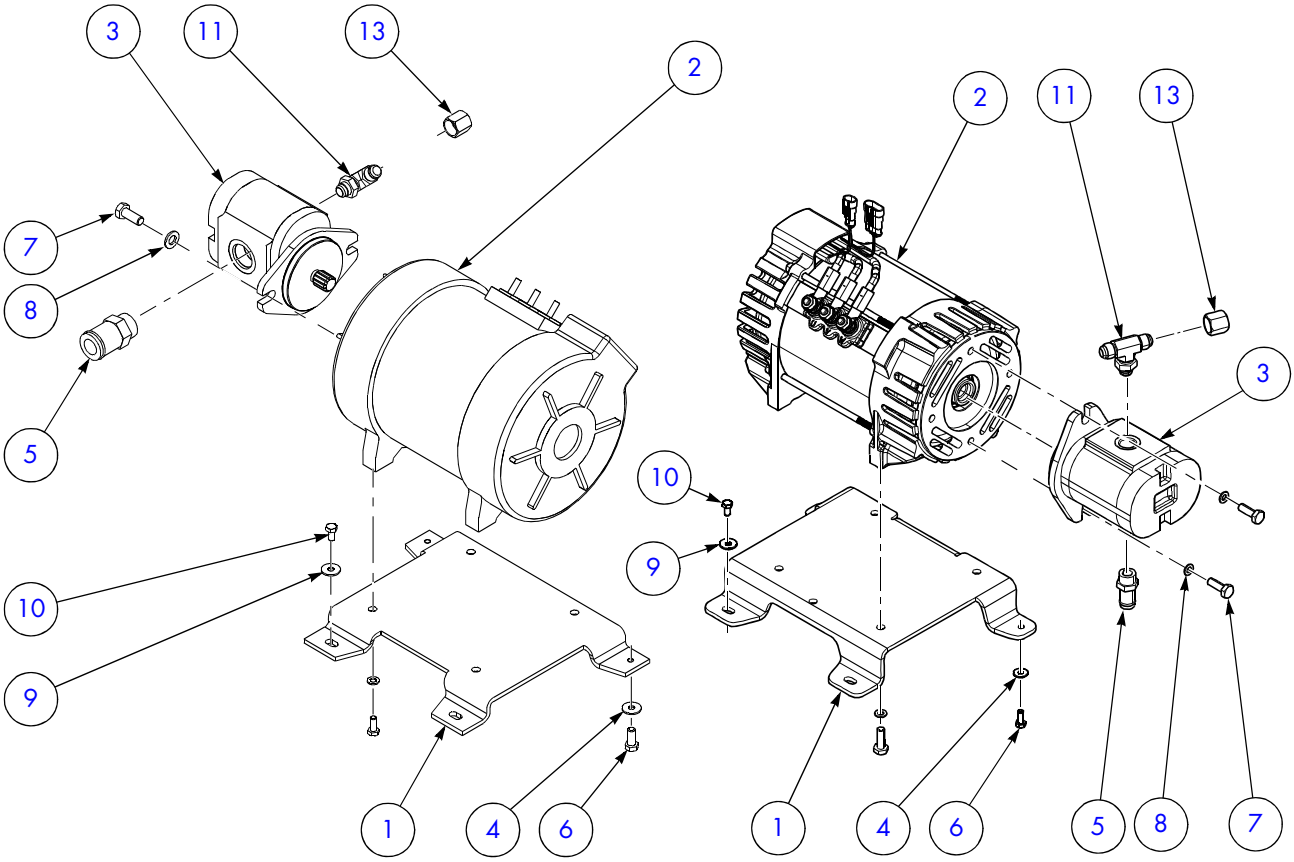
Figure 6-9: Lift Pump and Motor Assembly, AC



Side Stance



Fore-Aft Stance



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List 6-9: Lift Pump and Motor Assembly, AC

FIGURE 6-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1062173	Bracket Weldment, Motor (Model 7400)	A
	1	1062284	Bracket Weldment, Motor (Model 7400)	B
	1	1011976	Bracket Weldment, Motor (Models 7420 and 7440)	A
	1	1012207	Bracket Weldment, Motor (Models 7420 and 7440)	B
2	1	1052117/700	Motor Assembly, AC Lift (Sauer Danfoss) (See Figure 5-14a.)	
		1058359/700	Motor Assembly, AC Lift, EE (Sauer Danfoss) (See Figure 5-14a.)	
3	1	1024064/100	Pump, Lift, AC (See Figure 6-14.)	
4	4	5-018-007	Washer, Flat	
5	1	802-025/021	Fitting, Hose, AC Lift Pump Inlet	
6	4	5-001-015	Screw	
7	2	5-001-024	Screw	
8	2	5-018-008	Washer, Flat	
9	4	5-018-012	Washer, Flat	
10	4	5-001-007	Screw	
11	1	1041684	Fitting, Tee, #10, AC Lift Pump Outlet	
13	1	1041685	Fitting, Cap #10	

A= Fore-Aft Stance
B= Side Stance

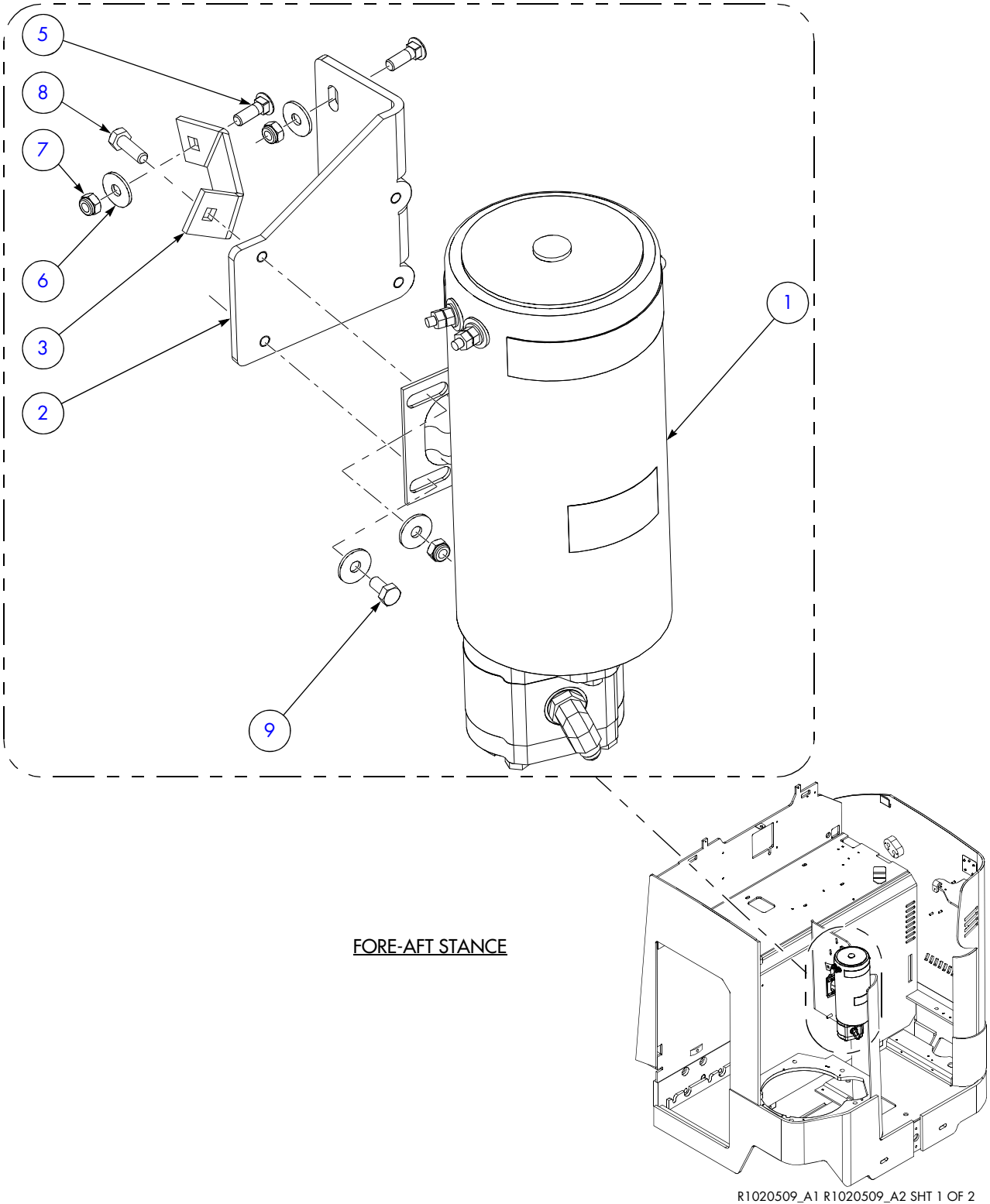
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Auxiliary Pump and Motor Installation

Figure 6-10a: Auxiliary Pump and Motor Installation

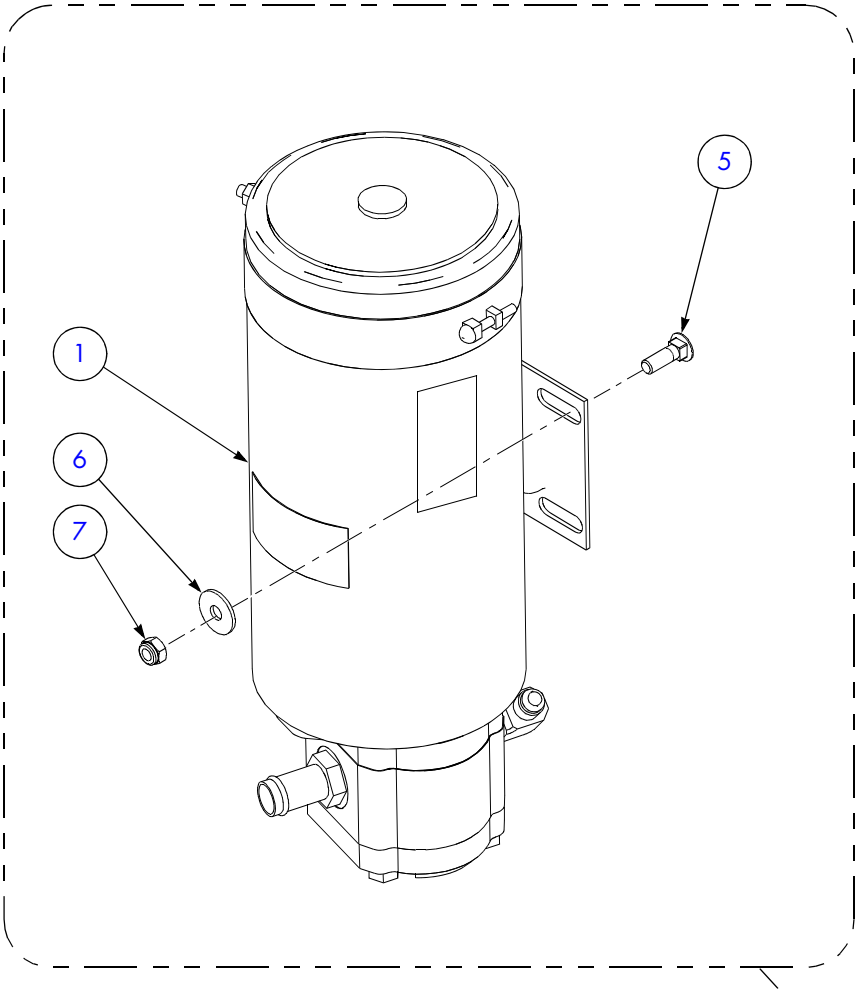


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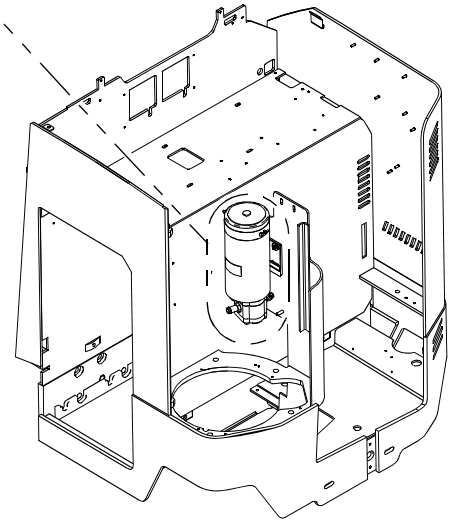
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Auxiliary Pump and Motor Installation

Figure 6-10b: Auxiliary Pump and Motor Installation



SIDE STANCE



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List 6-10: Auxiliary Pump and Motor Installation

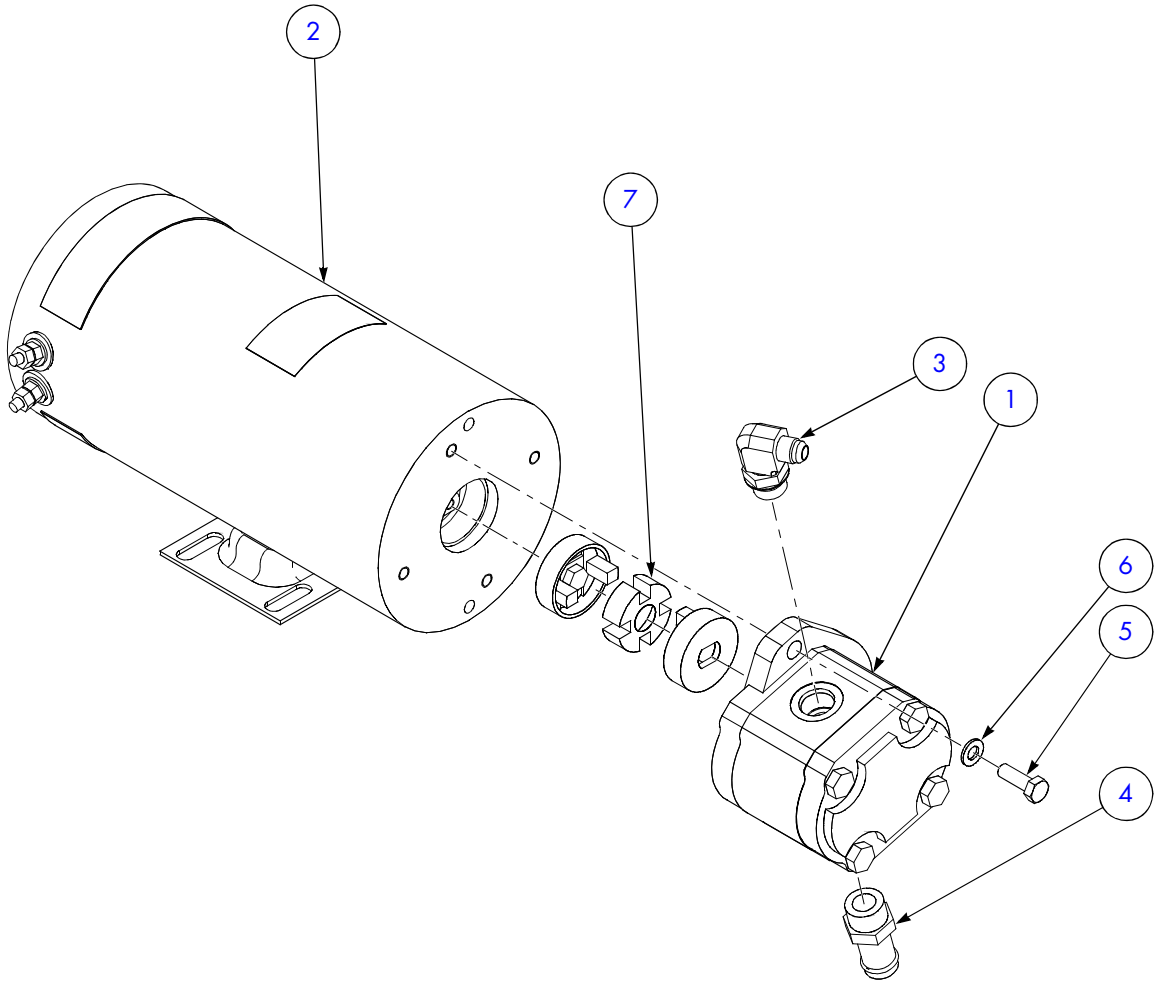
FIGURE 6-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Pump and Motor Assembly, Auxiliary (See Figure 6-11.)	
2	1	1009578	Bracket, Motor, Auxiliary	A
3	1	1009529	Bracket, Formed, Auxiliary	A
5	3	1009565/001	Bolt, Carriage	B
6	7	5-018-012	Washer, Flat	B
7	4	5-016-005	Nut, Nylon Locking	B
8	1	5-001-009	Screw	A
9	3	5-001-007	Screw	A
10	1	1041423	Kit, Brush Band, 3-Piece EE (Not Shown)	C

A= Fore-Aft Stance Only
B= Quantity 2 for Side Stance
C= UL Class EE Only

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Auxiliary Pump and Motor Assembly

Figure 6-11: Auxiliary Pump and Motor Assembly



NOTE: Fore-Aft configuration shown. For Side Stance, reverse positions of items 3 and 4.

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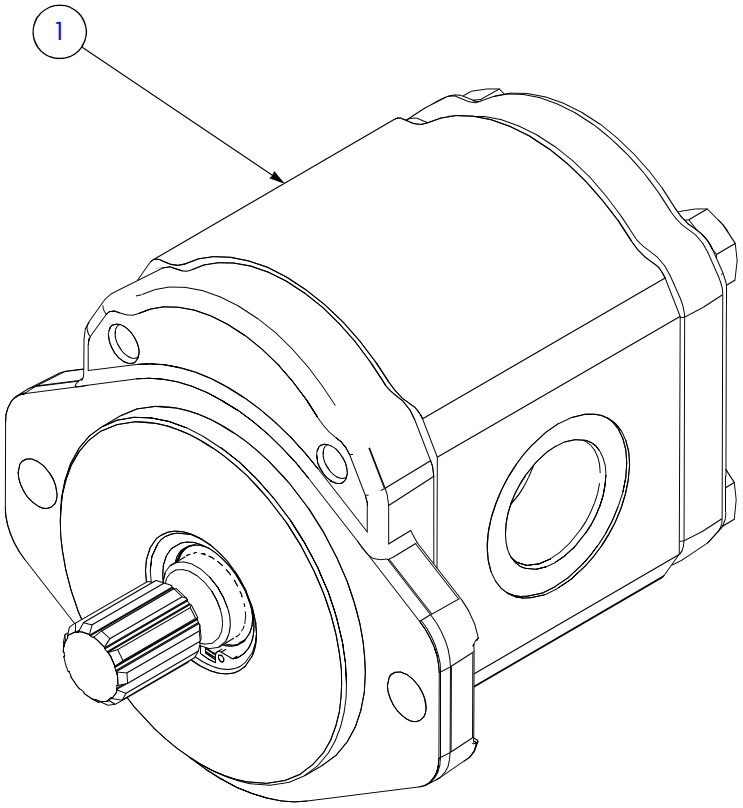
List 6-11: Auxiliary Pump and Motor Assembly

FIGURE 6-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1020558/100	Pump, Auxiliary (See Figure 6-15.)	
2	1	1020545/450	Motor, Auxiliary (See Figure 5-15.)	
3	1	792-311	Fitting, Hose, Auxiliary Pump Outlet, DC Lift	
4	1	802-025/005	Fitting, Hose, Auxiliary Pump Inlet, DC Lift	
5	2	5-001-009	Screw	
6	2	5-018-006	Washer, Flat	
7	1	560-205/120	Coupling, Flexible	

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Lift Pump, DC, Single

Figure 6-12: Lift Pump, DC, Single



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List 6-12: Lift Pump, DC, Single

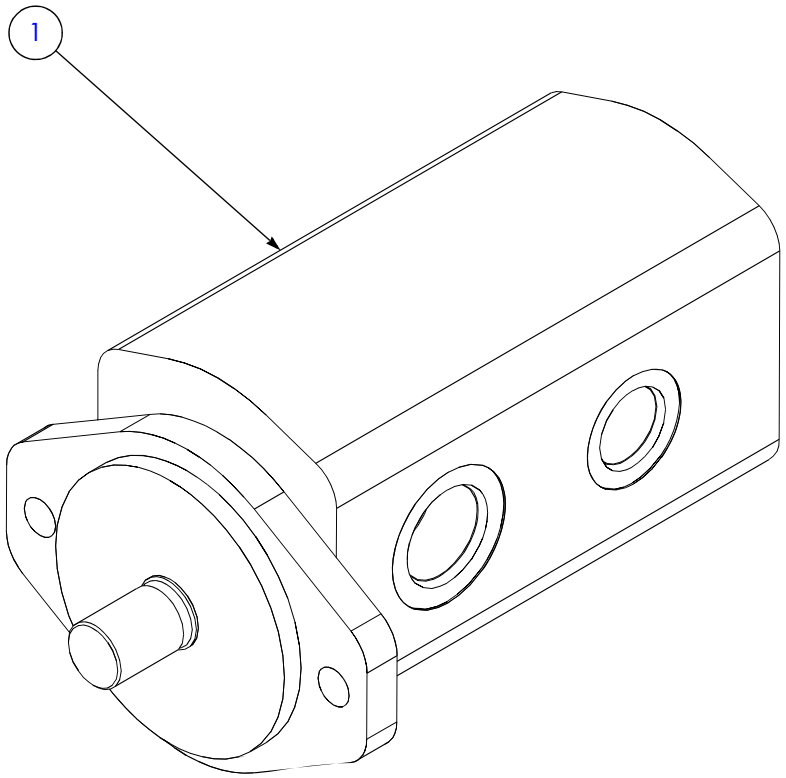
FIGURE 6-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	500-488/200	Pump, Lift, DC, Single	
2	1	500-348/367	Kit, Seal, Single DC Lift Pump (Not Shown)	R

R= Recommended Spare

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Lift Pump, DC, Dual

Figure 6-13: Lift Pump, DC, Dual



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List 6-13: Lift Pump, DC, Dual

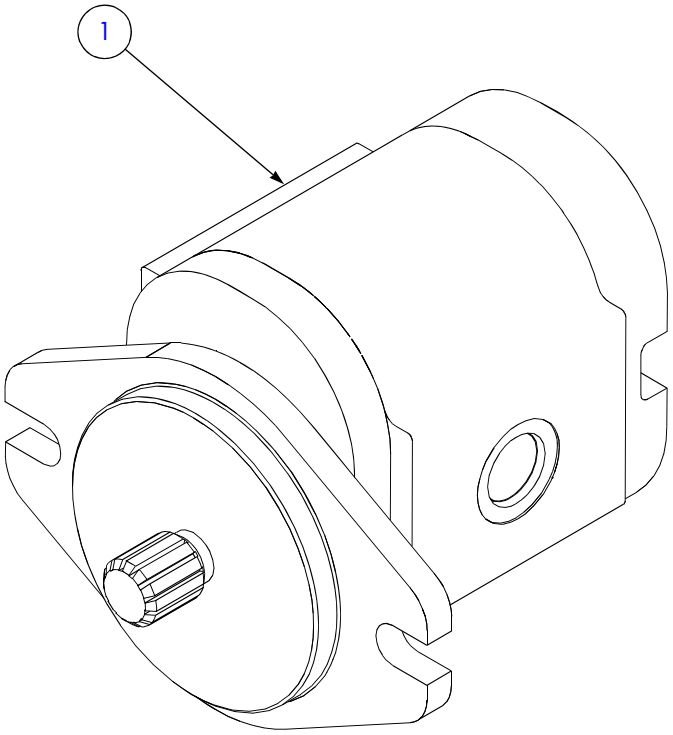
FIGURE 6-13 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1012363/100	Pump, Lift, DC, Dual	
2	1	500-444/211	Kit, Seal, Dual DC Lift Pump (Not Shown)	R

R= Recommended Spare

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Lift Pump, AC

Figure 6-14: Lift Pump, AC



1024064_100

List 6-14: Lift Pump, AC

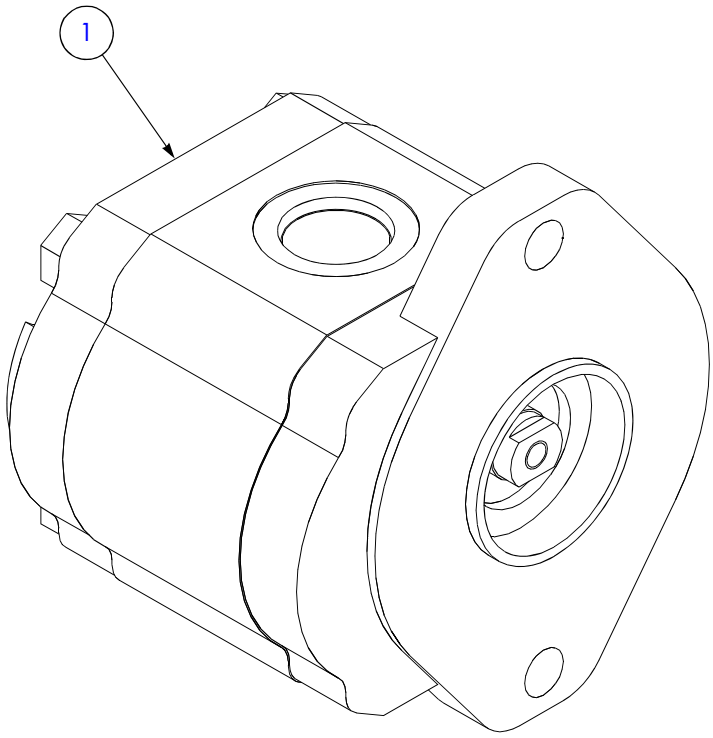
FIGURE 6-14 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1024064/100	Pump, Lift, AC	
2	1	1020602/111	Kit, Seal, AC Lift Pump (Not Shown)	R

R= Recommended Spare

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Auxiliary Pump

Figure 6-15: Auxiliary Pump



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List 6-15: Auxiliary Pump

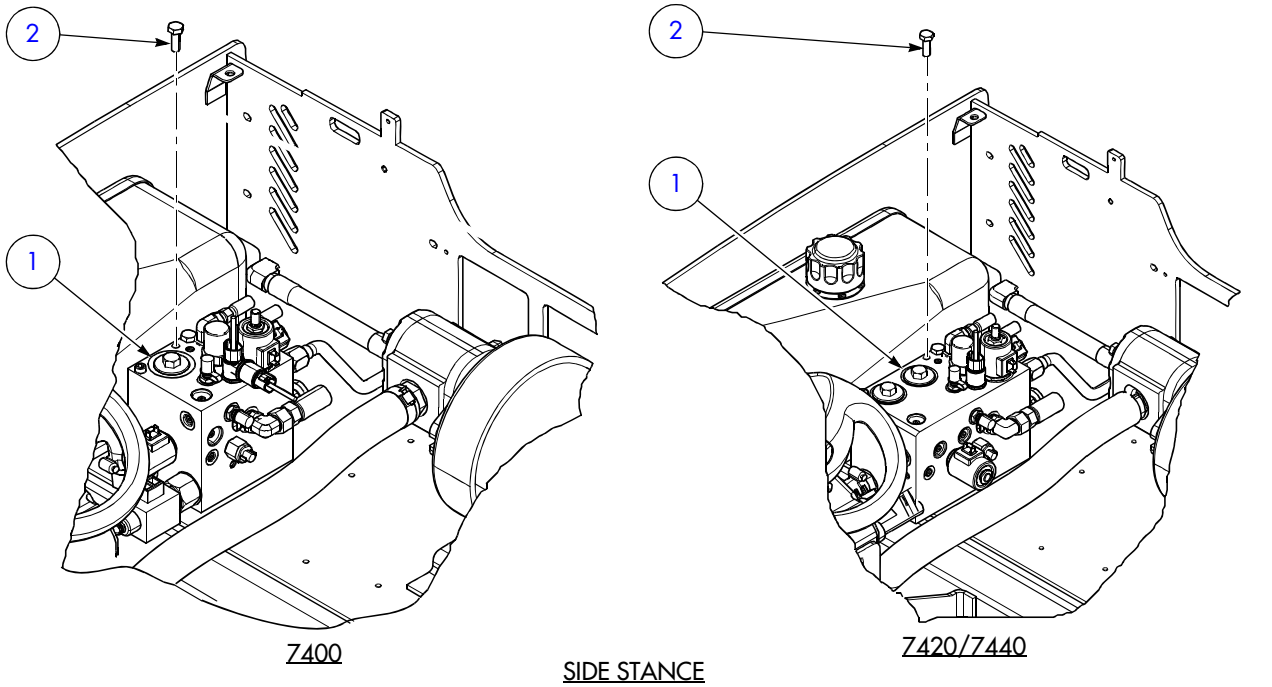
FIGURE 6-15 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1020558/100	Pump, Auxiliary	
2	1	500-348/367	Kit, Seal, Auxiliary Pump (Not Shown)	R

R= Recommended Spare

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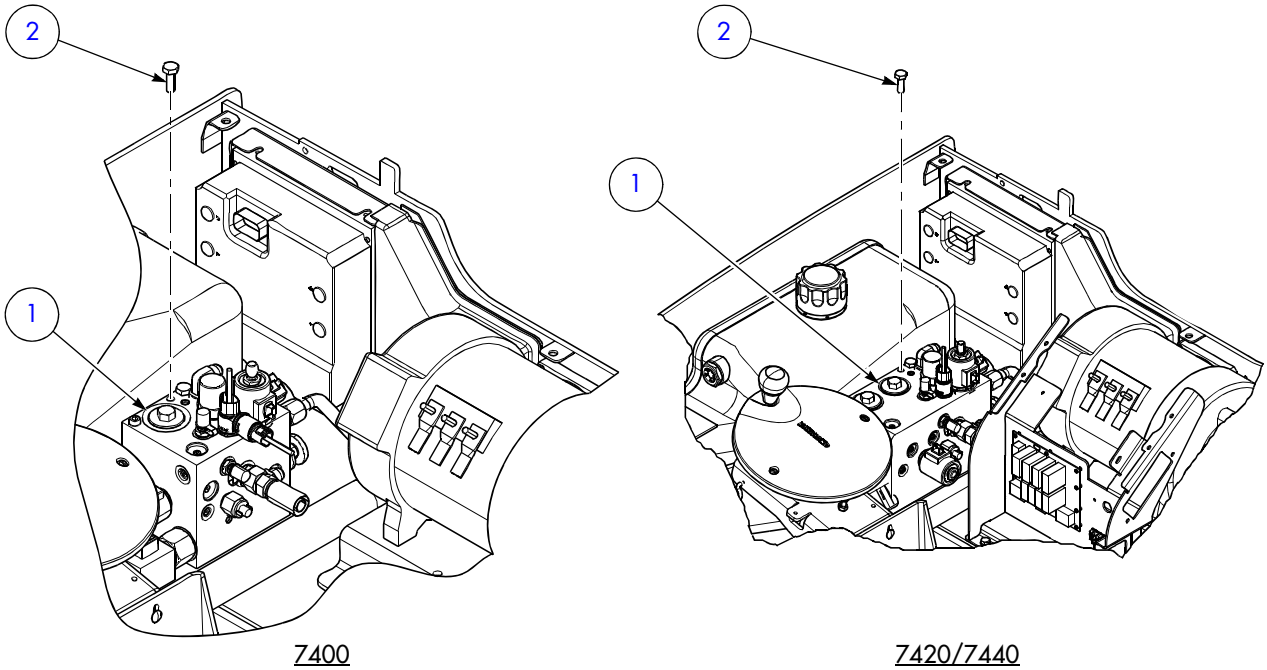
Main Manifold Installation, AC Lift

Figure 6-16: Main Manifold Installation, AC Lift



7400 7420/7440

SIDE STANCE



7400 7420/7440

FORE-AFT STANCE

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List 6-16: Main Manifold Installation, AC Lift

FIGURE 6-16 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Manifold Assembly, AC Lift (See Figure 6-17a.) (See Figure 6-18a.)	
2	2	7-710-008/160	Screw	

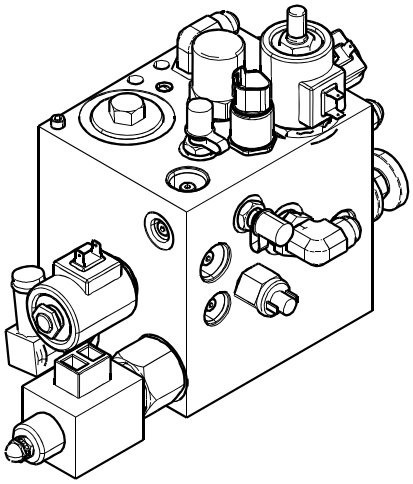
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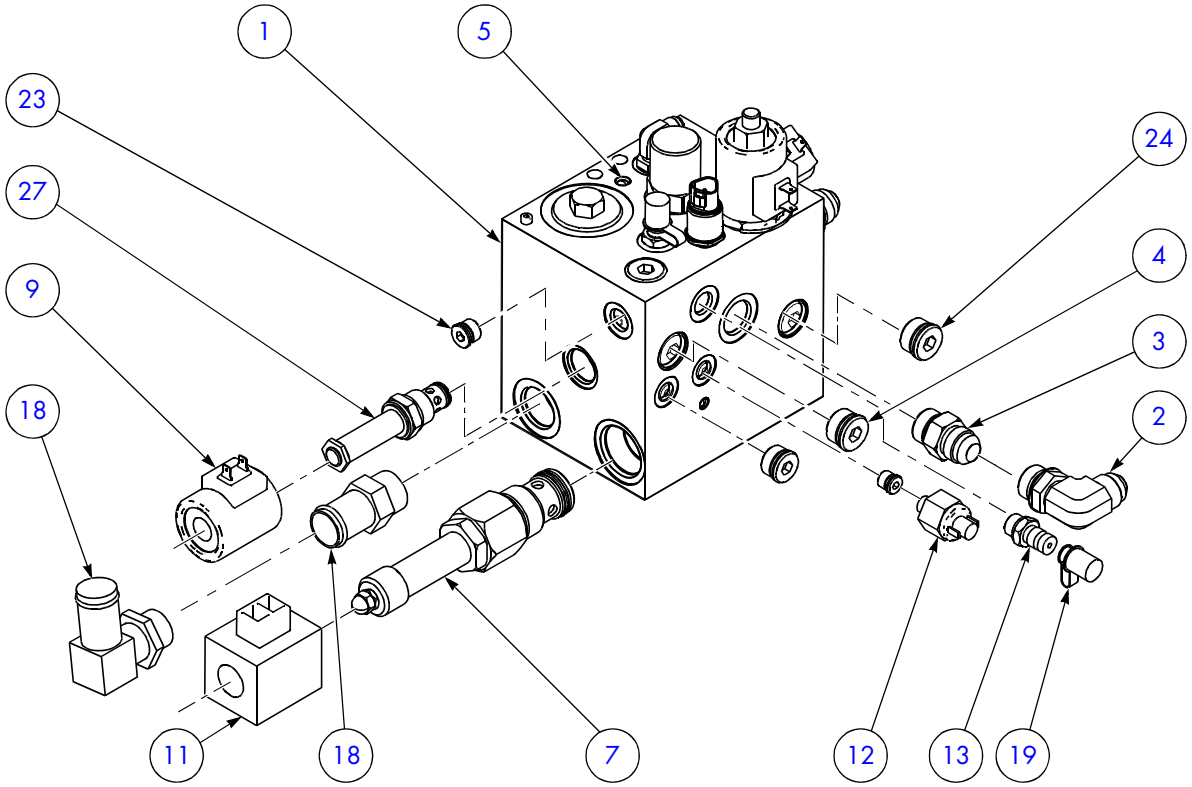
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Main Manifold Assembly, Model 7400 AC Lift

Figure 6-17a: Main Manifold Assembly, Model 7400 AC Lift



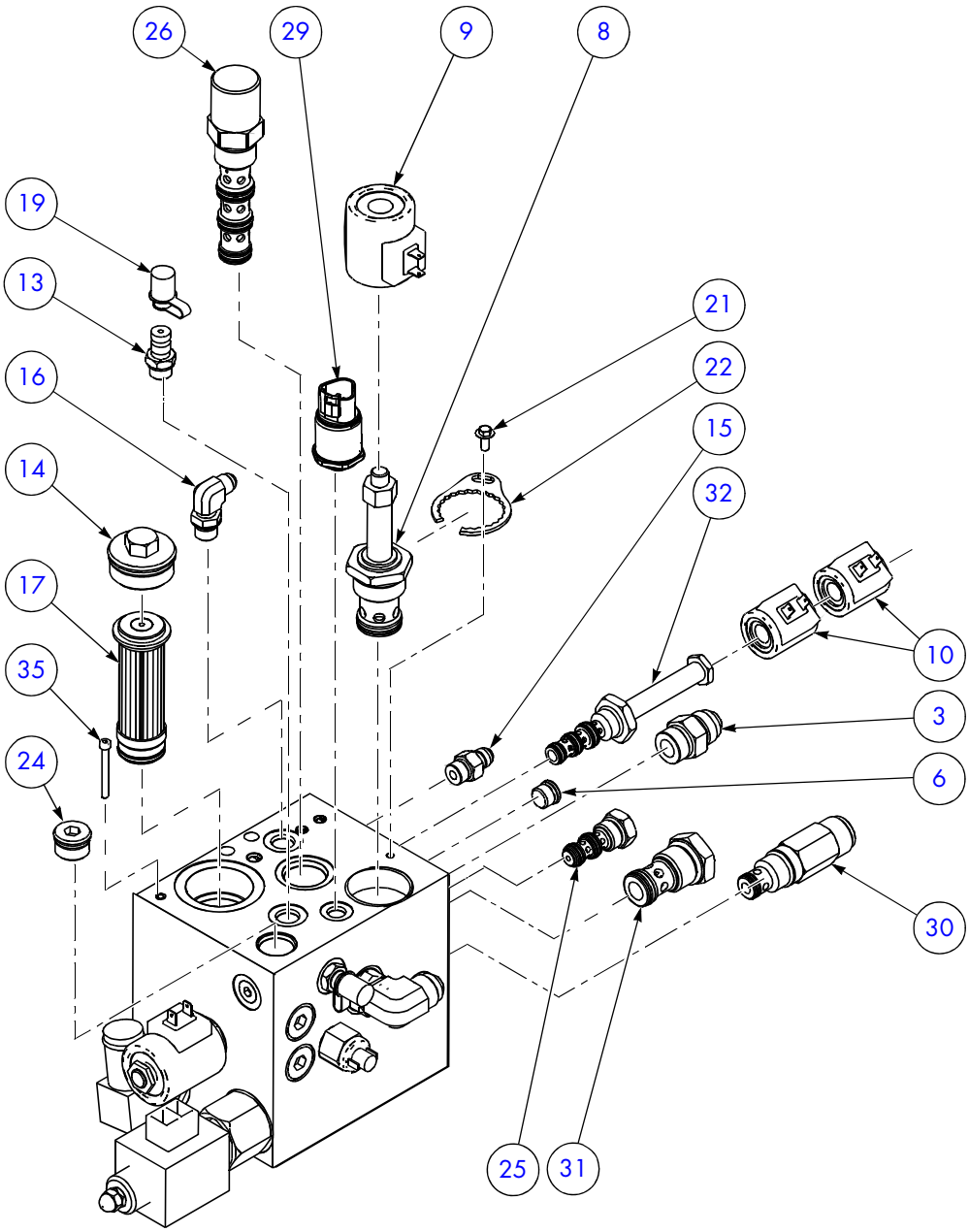


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Main Manifold Assembly, Model 7400 AC Lift

Figure 6-17b: Main Manifold Assembly, Model 7400 AC Lift



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List 6-17: Main Manifold Assembly, Model 7400 AC Lift

FIGURE 6-17 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1099643/017	Manifold Assembly, Main, AC Lift, Model 7400	D
1	1	Ref.	Manifold Block, Main Manifold, AC Lift, Model 7400	
2	1	792-430	Fitting, Elbow, AC Lift Main Manifold P1 or PMP1	A
3	1	792-376	Fitting, Straight, AC Lift Main Manifold P1 or PMP1	B
4	2	1003647/004	Plug, HTI, #4	
5	7	N/A	Plug, Expansion	
6	3	N/A	Plug, Expansion	
7	1	1015361/001	Valve, Proportional, Lift/Lower (SOL 2, AC Lift), Model 7400	R
8	1	520-934/002	Valve, Poppet, Load Holding (SOL 1, AC Lift)	R
9	2	520-950/003	Coil, Solenoid (SOL 1 and SOL 3)	
10	2	520-951/003	Coil, Solenoid (SOL 5T and SOL 5B, AC Lift)	
11	1	520-952/002	Coil, Solenoid (SOL 2)	
12	1	591-630	Switch, Pressure (HTI)	C, R
13	2	782-825/001	Fitting, Quick Disconnect, AC Lift Main Manifold G1 Lift Pressure	
14	1	1018226/001	Plug, Hydraulic Filter, AC Lift Main Manifold	
15	1	792-346	Fitting, Straight, AC Lift Main Manifold A2, Model 7400	
16	1	792-347	Fitting, Tube, 90 Degrees, AC Lift Main Manifold A1, Model 7400	
17	1	1012615/003	Filter, Hydraulic, Element	R
18	1	802-023/012	Fitting, Hose, Elbow, AC Lift Main Manifold TANK, EH < 331 in.	
	1	802-017	Fitting, Hose, Straight, AC Lift Main Manifold TANK, EH > 330 in.	
19	2	870-872	Cap, Dust, Coupling	
21	1	7-900-202/010	Screw	
22	1	828-011-191/002	Locking Tab, Valve (SOL 1, AC Lift)	
23	2	1003647/006	Plug, #6	
24	3	1003647/010	Plug, #10	
25	1	1009200/001	Valve, Directional (LS-1)	R
26	1	1009208/060	Valve, Flow Control (POD-1, AC Lift)	R
27	1	1011602/001	Valve, Proportional, Main Relief (SOL 3, AC Lift)	R
29	1	1095161/001	Pressure Transducer (CYL-P), AC Lift	R
30	1	1014435/013	Valve, Auxiliary Relief (REL-2)	R
31	1	1014626/001	Valve, Check (CV-1, AC Lift)	R
32	1	1006072/001	Valve, Proportional, Auxiliary Direction (SOL 5T and SOL5B, AC Lift)	R
35	1	7-714-004/040	Screw	

A= Side Stance
B= Fore-Aft Stance
C= Height-Tilt Indicator (HTI)
D= Does Not Include Items 2, 4,12, 18 and 36
R= Recommended Spare

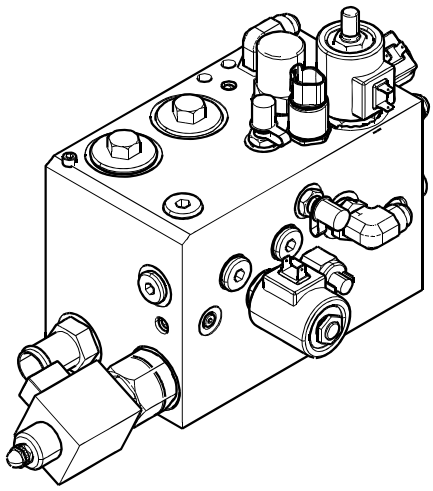
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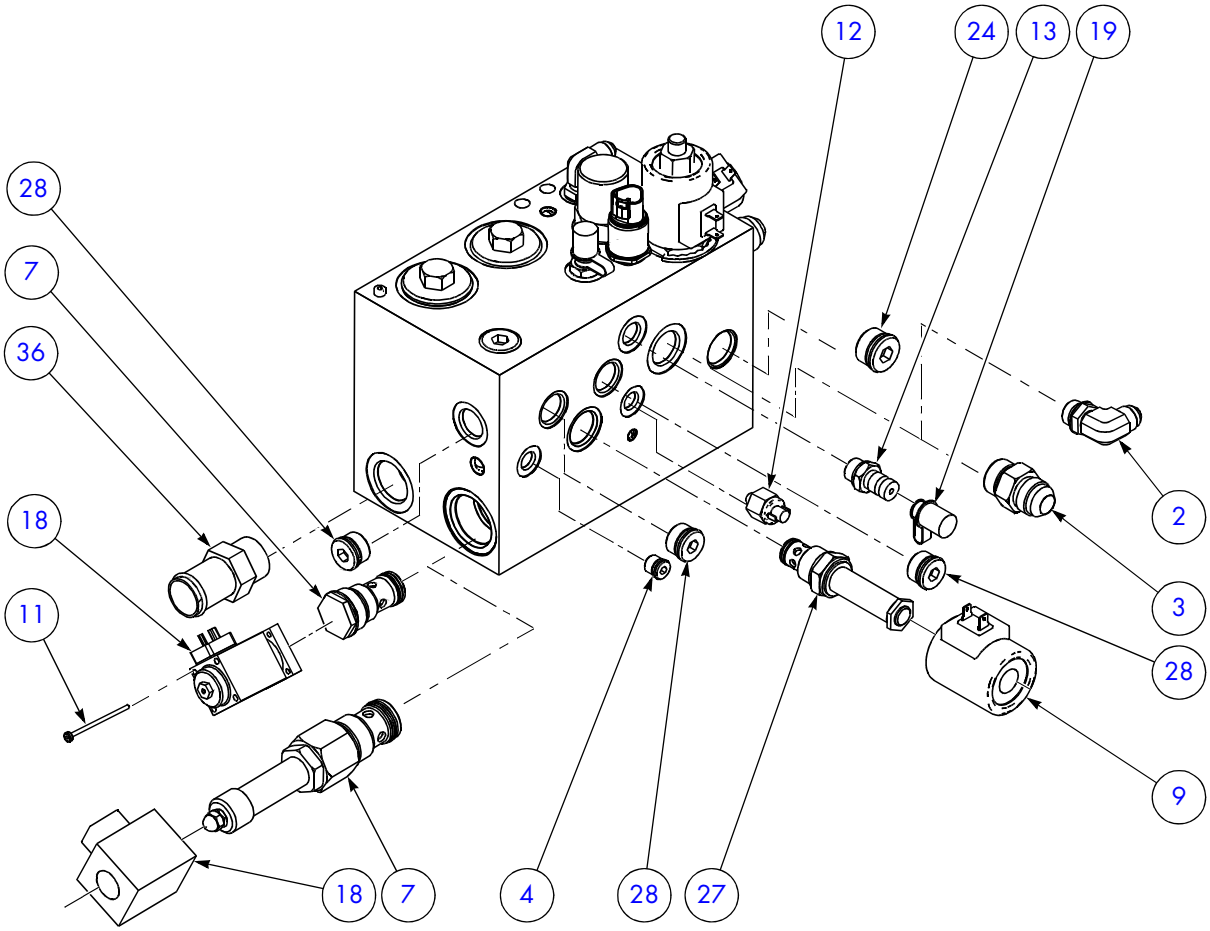
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Main Manifold Assembly, Models 7420 and 7440, AC Lift

Figure 6-18a: Main Manifold Assembly, Models 7420 and 7440, AC Lift



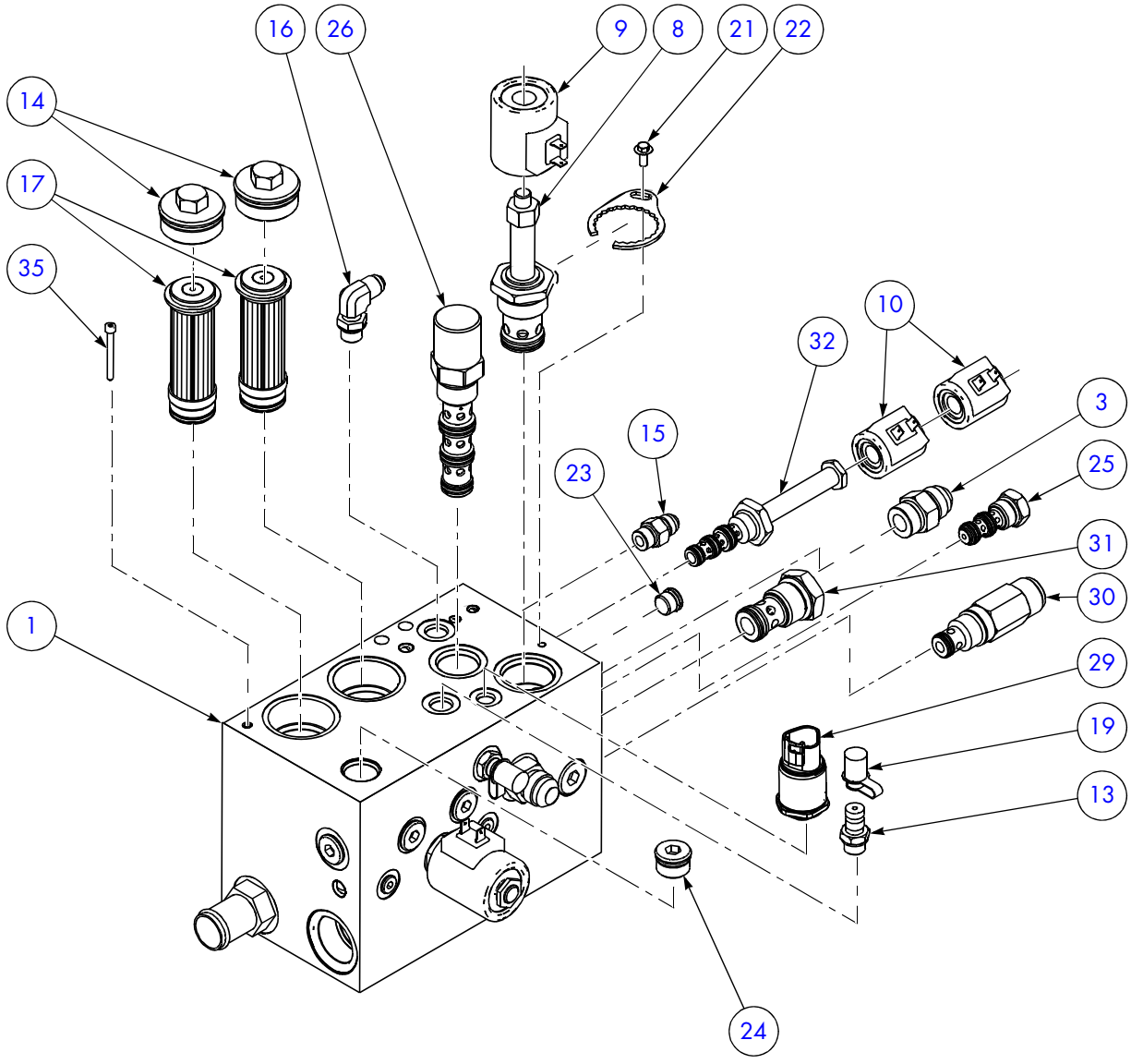


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Main Manifold Assembly, Models 7420 and 7440, AC Lift

Figure 6-18b: Main Manifold Assembly, Models 7420 and 7440, AC Lift



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List 6-18: Main Manifold Assembly, Models 7420 and 7440, AC Lift

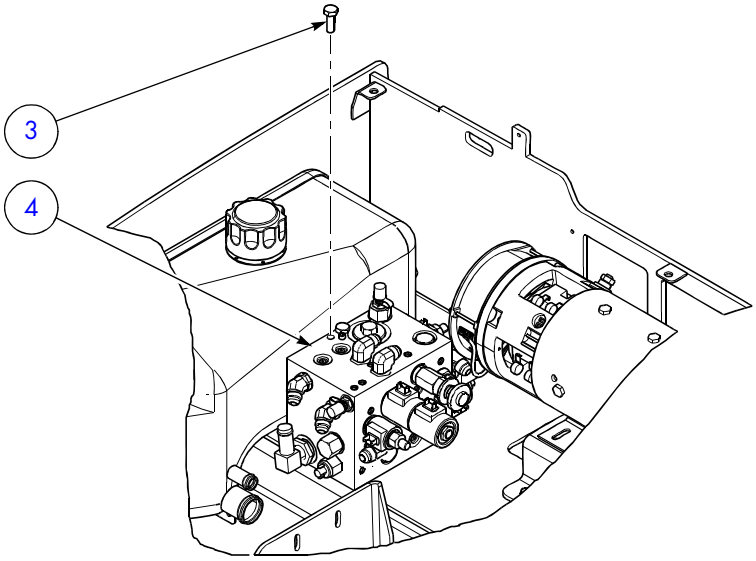
FIGURE 6-18 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1099655/009	Manifold Assembly, Main, AC Lift, Models 7420 and 7440	D
1	1	Ref.	Block, Manifold, Main Manifold, AC Lift, Models 7420 and 7440	
2	1	792-430	Fitting, Elbow, AC Lift Main Manifold P1 or PMP1	A
3	1	792-376	Fitting, Straight, AC Lift Main Manifold P1 or PMP1	B
4	2	1003647/004	Plug, HTI, #4	
5	7	N/A	Plug, Expansion (Not Shown)	
6	3	N/A	Plug, Expansion (Not Shown)	
7	1	1051417/001	Valve, Proportional, Lift/Lower (SOL 2, AC Lift), Models 7420 and 7440	R
8	1	520-934/002	Valve, Poppet, Load Holding (SOL 1, AC Lift)	R
9	2	520-950/003	Coil, Solenoid (SOL 1 and SOL 3)	
10	2	520-951/003	Coil, Solenoid (SOL 5T and SOL 5B, AC Lift)	
11	4	5-002-048	Screw	
12	1	591-630	Switch, Pressure (HTI)	C, R
13	2	782-825/001	Fitting, Quick Disconnect, AC Lift Main Manifold G1 Lift Pressure	
14	2	1018226/001	Plug, Hydraulic Filter, AC Lift Main Manifold	
15	1	792-343	Fitting, Straight (AC Lift Main Manifold A2), Models 7420 and 7440	
16	1	792-342	Fitting, Tube, 90 Degrees (AC Lift Main Manifold A1), Models 7420 and 7440	
17	2	1012615/003	Filter, Hydraulic, Element	R
18	1	520-952/002	Coil, Solenoid (SOL 2)	
19	2	870-872	Cap, Dust, Coupling	
21	1	7-900-202/010	Screw	
22	1	828-011-191/002	Locking Tab, Valve (SOL 1, AC Lift)	
23	2	1003647/006	Plug, #6	
24	3	1003647/010	Plug, #10	
25	1	1009200/001	Valve, Directional (LS-1)	R
26	1	1009208/060	Valve, Flow Control (POD-1, AC Lift)	R
27	1	1011602/001	Valve, Proportional, Main Relief (SOL 3, AC Lift)	R
28	3	1003647/008	Plug, #8	
29	1	1095161/001	Pressure Transducer (CYL-P), AC Lift	R
30	1	1014435/013	Valve, Auxiliary Relief (REL-2)	R
31	1	1014626/001	Valve, Check (CV-1, AC Lift)	R
32	1	1006072/001	Valve, Proportional, Auxiliary Direction (SOL 5T and SOL5B, AC Lift)	R
35	1	7-714-004/040	Screw	
36	1	802-017	Fitting, Hose, Straight (AC Lift Main Manifold TANK)	

A= Side Stance
B= Fore-Aft Stance Takes Qty 2
C= Height-Tilt Indicator (HTI)
D= Does Not Include Items 2, 4,12, 18 and 36
R= Recommended Spare

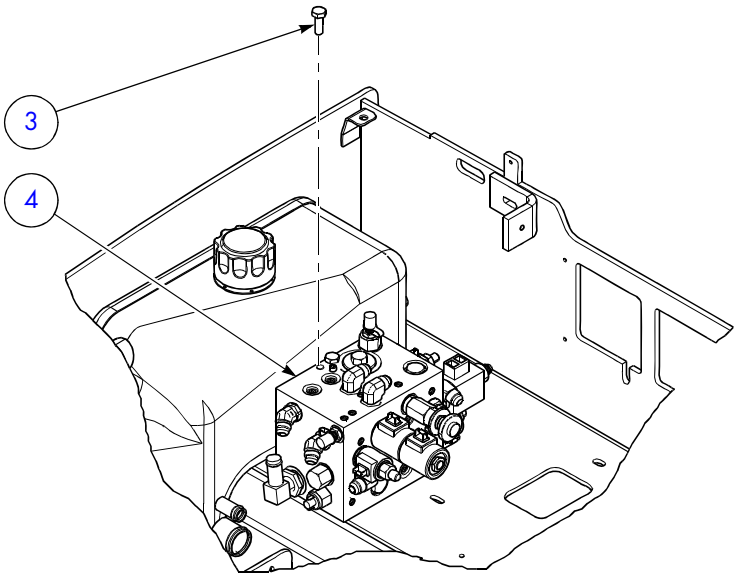
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Main Manifold Installation, DC Lift

Figure 6-19: Main Manifold Installation, DC Lift



FORE-AFT STANCE



SIDE STANCE

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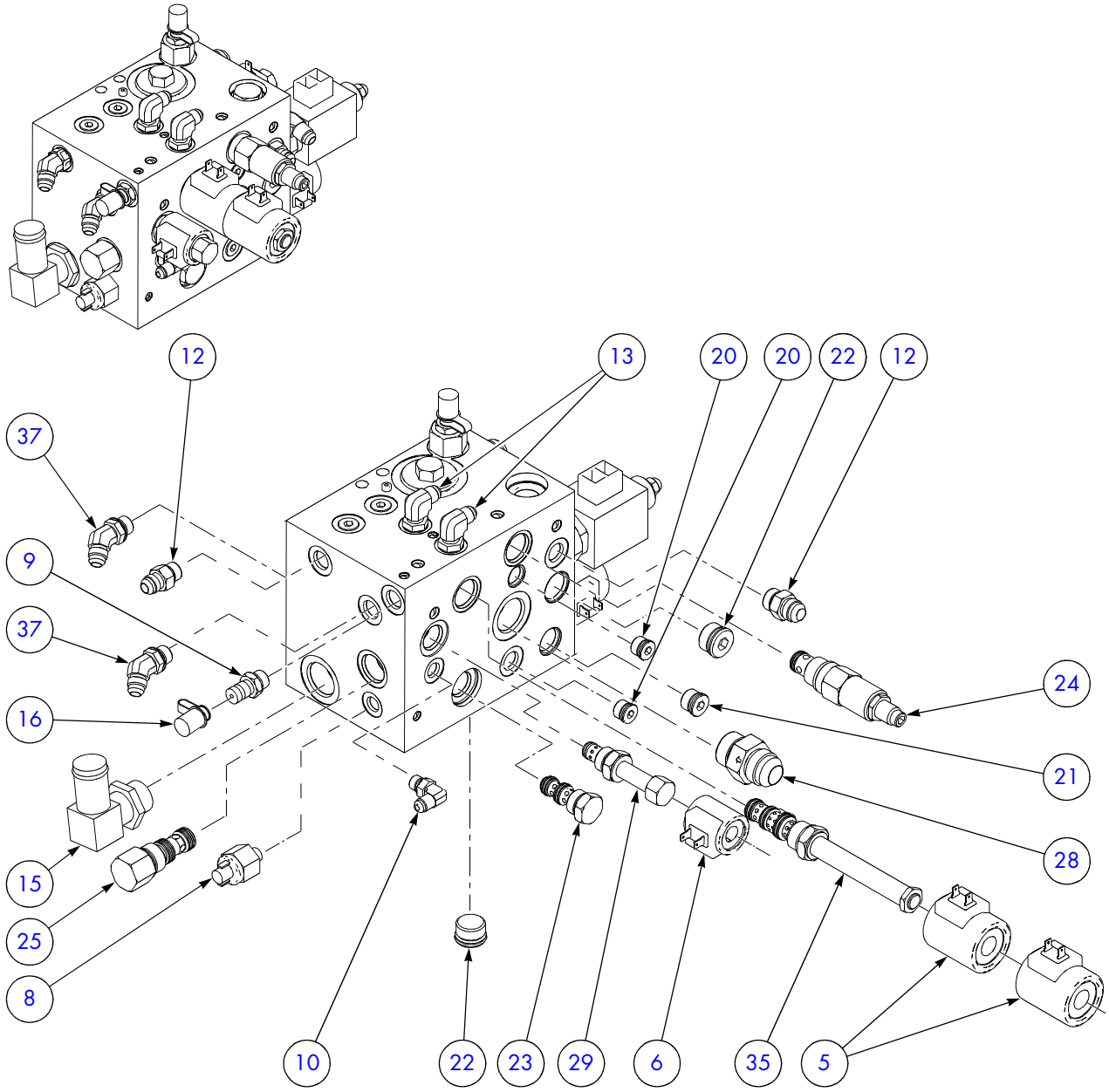
List 6-19: Main Manifold Installation, DC Lift

FIGURE 6-19 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
3	2	7-710-008/160	Screw	
4	1	Ref.	Manifold Assembly, Main, DC Lift (See Figure 6-20a.)	

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Main Manifold Assembly, DC Lift

Figure 6-20a: Main Manifold Assembly, DC Lift

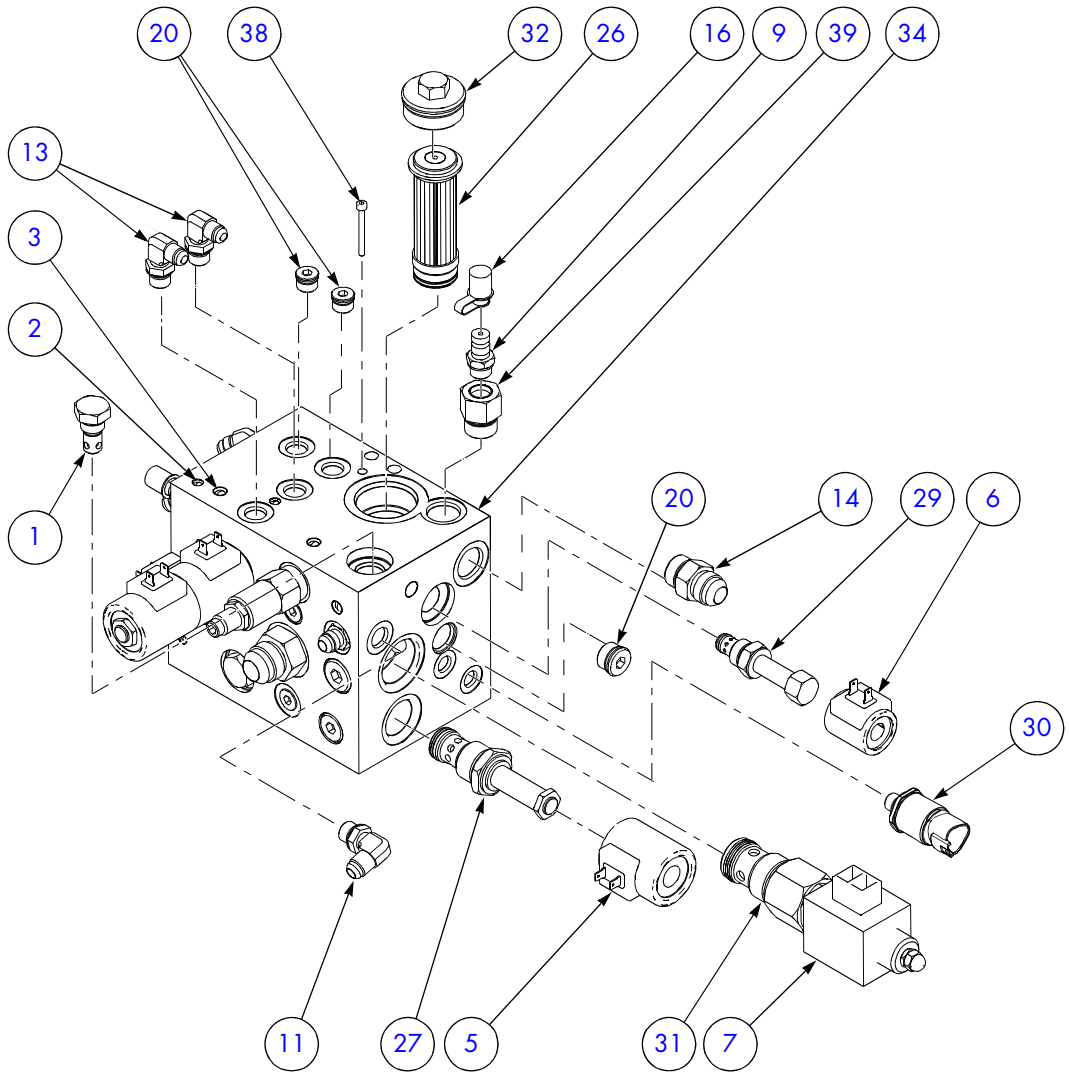


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Main Manifold Assembly, DC Lift

Figure 6-20b: Main Manifold Assembly, DC Lift



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List 6-20: Main Manifold Assembly, DC Lift (Sheet 1 of 2)

FIGURE 6-20 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1099654	Manifold Assembly, Main, DC Lift	G
1	1	520-337/004	Valve, Check (CV-2)	F, R
2	4	N/A	Plug, Expansion	
3	4	N/A	Plug, Expansion	
4	1	N/A	Plug, Expansion (Not Shown)	
5	3	520-950/003	Coil, Solenoid (SOL 1 and SOL 5)	
6	1-2	520-951/003	Coil, Solenoid (SOL 4 and SOL 8) (SOL 4 High Performance only)	
7	1	520-952/002	Coil, Solenoid (SOL 2)	
8	1	591-630	Switch, Pressure (HTI)	C, R
9	2	782-825/001	Fitting, Quick Disconnect, DC Lift Main Manifold G2	
10	1	790-408	Fitting, Elbow, 90 Degrees, DC Lift Main Manifold CASE DRAIN	
11	1	792-342	Fitting, Elbow, 90 Degrees, DC Lift Main Manifold P2 Side Stance	A, F
12	1	792-343	Fitting, Straight, DC Lift Main Manifold P2 Fore-Aft Stance	B, F
	1	792-343	Fitting, Straight, DC Lift Main Manifold S-RET Side Stance	A
13	2	792-347	Fitting, Elbow, 90 Degrees, DC Lift Main Manifold A1 and A2	
14	1	792-376	Fitting, Straight, DC Lift Main Manifold CYL-1	
15	1	802-023/012	Fitting, Hose, Elbow, DC Lift Main Manifold TANK	
16	2	870-872	Cap, Dust, Coupling	
19	1-2	1003647/004	Plug, HTI, #4 (Not Shown)	
20	4-5	1003647/006	Plug, #6	
21	2	1003647/008	Plug, #8	
22	2	1003647/010	Plug, #10	
23	1	1009200/001	Valve, Directional (LS-1)	R
24	1	1009281/007	Valve, Main Relief (REL-1, DC Lift)	R
25	1	1009323/019	Valve, Flow Control (CE-1, DC Lift) (Not Shown)	R
26	1	1012615/103	Filter, Hydraulic, Element	R
27	1	1013270/001	Valve, Load Holding (SOL 1, DC Lift)	R
28	1	1013281/005	Valve, Check (CV-1, DC Lift)	R
29	1-2	1013286/001	Valve, Directional (SOL 4 and SOL-8)	E, F, R
30	1	1095161/001	Pressure Transducer (CYL-P), DC Lift	R
31	1	1015361/001	Valve, Proportional, Lift/Lower (SOL 2, DC Lift)	R
32	1	1018226/001	Plug, Hydraulic Filter, DC Lift Main Manifold	
34	1	Ref.	Block, Manifold, Main Manifold, DC Lift	
35	1	1020607/001	Valve, Proportional, Auxiliary Direction (SOL 5T and SOL5B, DC Lift)	R

A= Side Stance
B= Fore-Aft Stance (Use 2 Item 37)
C= Height Tilt Indicator (HTI)
E= Standard Performance
F= High Performance (Use 2 Item 29)
G= Does Not Include Items 1, 8, 11, 12, 15, 19, 25 and 33
R= Recommended Spare

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List 6-20: Main Manifold Assembly, DC Lift (Sheet 2 of 2)

FIGURE 6-20 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
37	1-2	792-344	Fitting, Elbow, 45 Degrees, DC Lift Main Manifold, S-RET Fore-Aft Stance and PWR BYND	B
38	1	7-714-004/040	Screw	
39	1	792-556	Fitting, Reducer, Main Manifold, DC Lift	

A= Side Stance
B= Fore-Aft Stance (Use 2 Item 37)
C= Height Tilt Indicator (HTI)
E= Standard Performance
F= High Performance (Use 2 Item 29)
G= Does Not Include Items 1, 8, 11, 12, 15, 19, 25 and 33
R= Recommended Spare

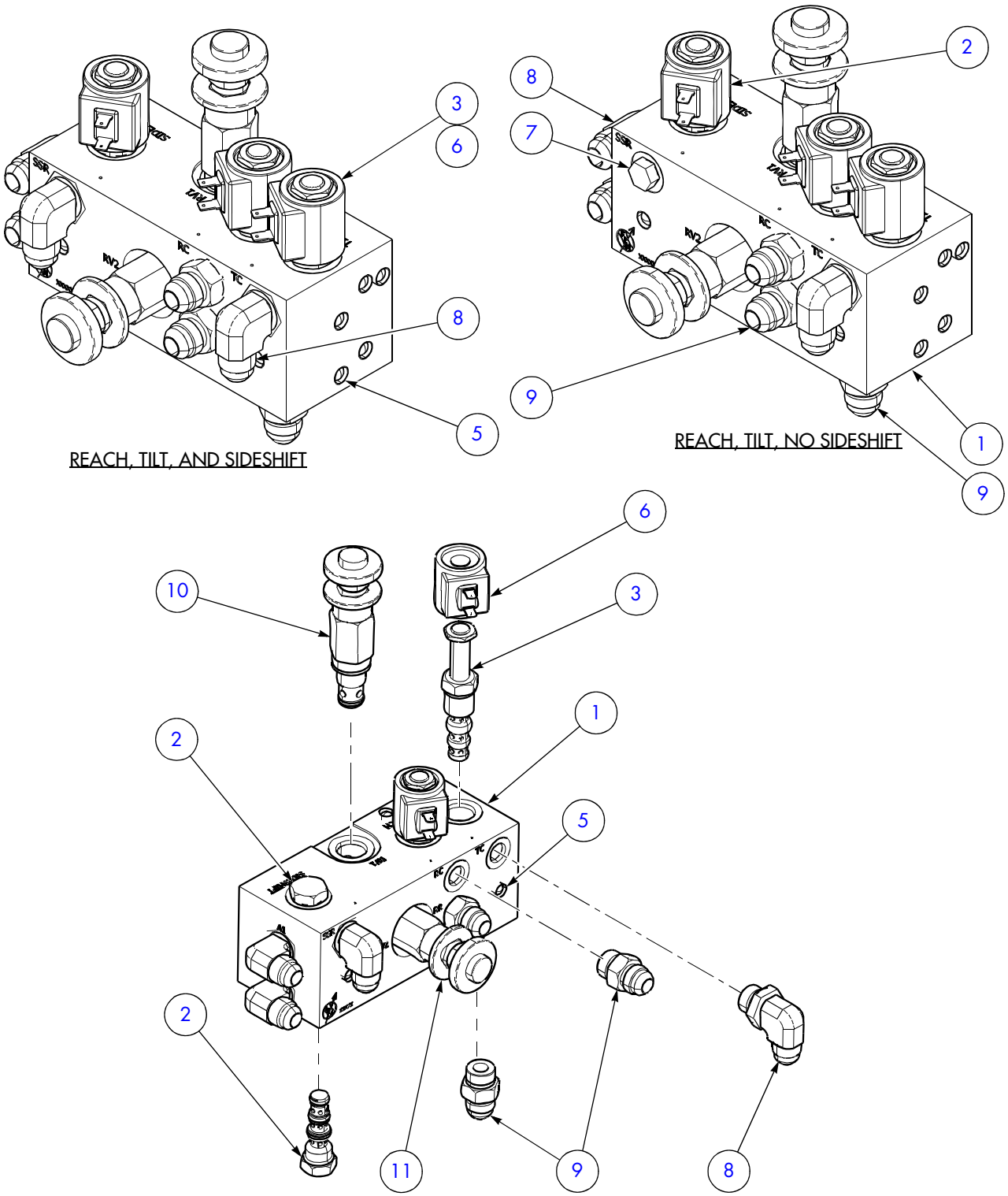
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Auxiliary Manifold Assembly, Single Reach

Figure 6-21: Auxiliary Manifold Assembly, Single Reach



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List 6-21: Auxiliary Manifold Assembly, Single Reach

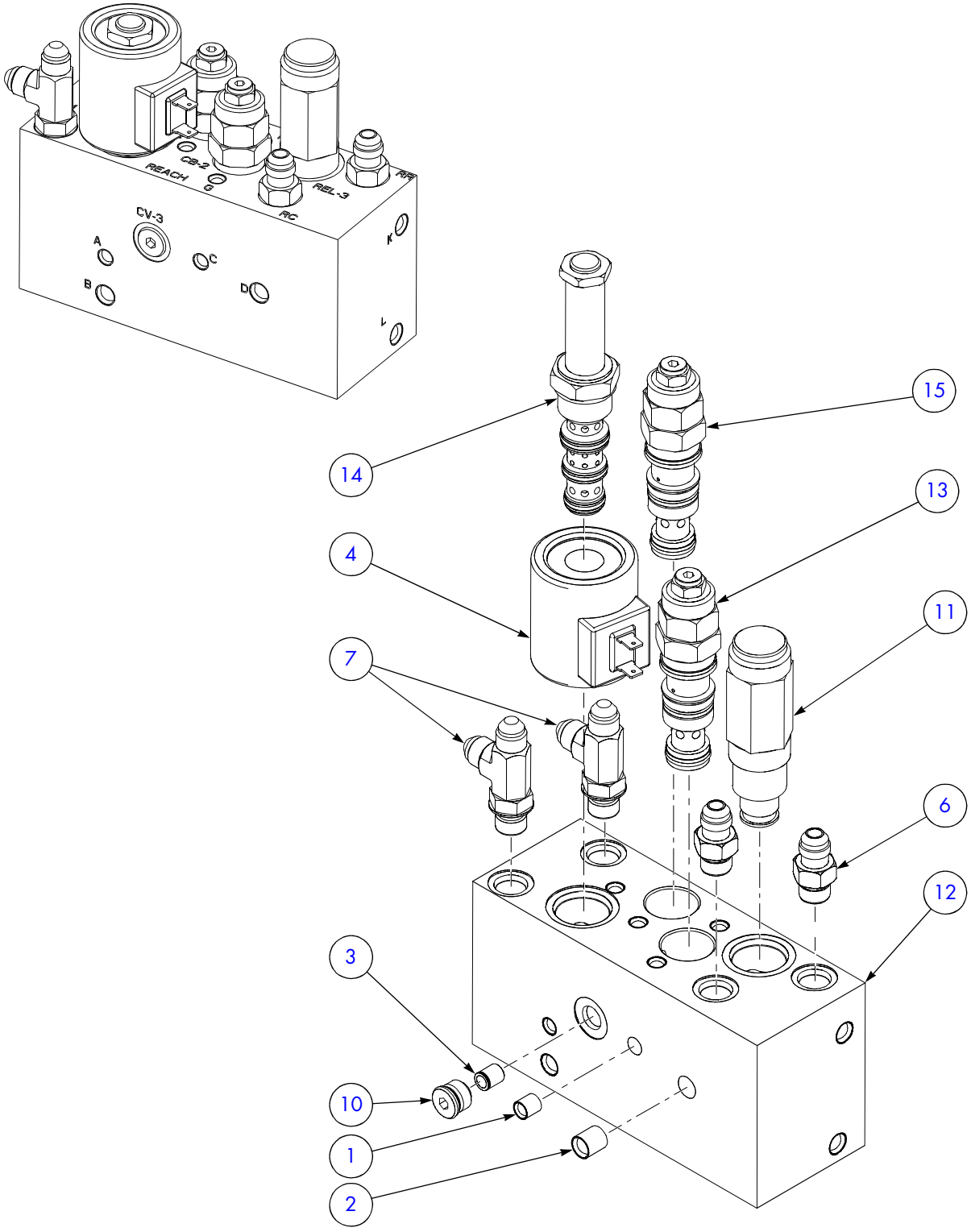
FIGURE 6-21 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1076512/001	Manifold Assembly, Single Reach, Tilt, Sideshift	A
		1076512/002	Manifold Assembly, Single Reach, Tilt, No Sideshift	B
1	1	NSS	Block, Manifold, Single Reach	
2	1	1012727/001	Plug	B
3	3	520-968	Valve, Solenoid, 4-Way (Reach, Tilt, and Sideshift Valves)	C, R
5	8	NSS	Plug, Expansion	
6	3	520-951/003	Coil, Solenoid (Reach, Tilt, and Sideshift Valves)	C
7	2	792-468	Plug	B
8	4	792-509	Fitting, Elbow, Reach Manifold (A1, A2, SSR, and TC)	C
9	4	792-583/009	Fitting, Straight, Reach Manifold (SSL, TR, RC, RR)	C
10	1	1076656/001	Valve, Pressure Control	R
11	1	1076656/002	Valve, Pressure Control	R

A= With Tilt and Sideshift
B= With Tilt and No Sideshift
C= Note: Subtract Qty 1 Without Sideshift
NSS= Not Sold Separately
R= Recommended Spare

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Manifold Assembly, Reach, DR32TT

Figure 6-22: Manifold Assembly, Reach, DR32TT



R1020906_100_B1 R1020906_100_B2

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List 6-22: Manifold Assembly, Reach, DR32TT

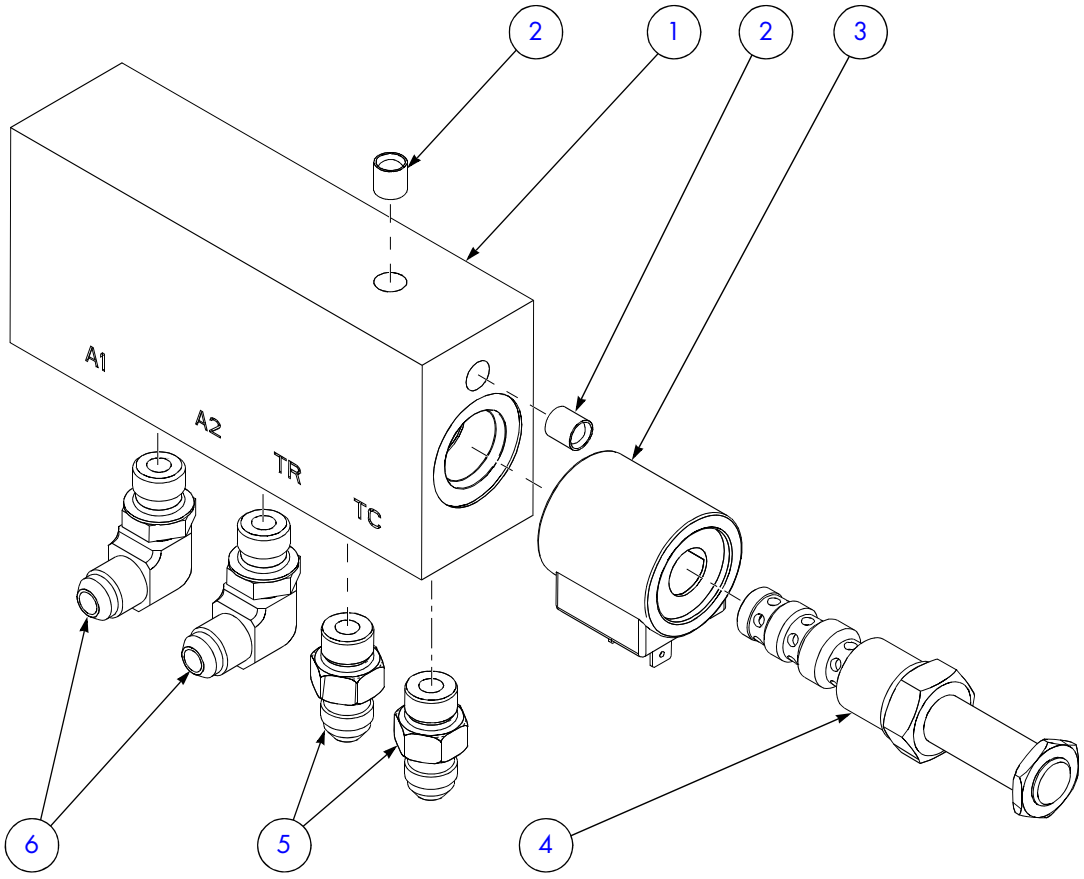
FIGURE 6-22 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1020906/001	Manifold Assembly, Deep-Reach, DR32TT	
1	11	NSS	Plug, Expansion	
2	5	NSS	Plug, Expansion	
3	1	520-943	Valve, Check (Deep-Reach Manifold CV-3)	R
4	1	520-950/003	Coil, Solenoid (Reach DR32TT)	
5	2	792-343	Fitting, Straight, Reach Manifold, DR32TT (RR and RC) (Not Shown)	
6	2	792-503	Fitting, Straight, Reach Manifold, DR32TT (RR and RC)	
7	2	792-631	Fitting, Straight, Run Tee, Reach Manifold, DR32TT (A1 and A2)	
8	2	792-806	Fitting, Straight, Run Tee, Reach Manifold, DR32TT (A1 and A2) (Not Shown)	
10	1	1003647/003	Plug	
11	1	1009281/013	Valve, Relief, Deep-Reach (REL-3)	R
12	1	NSS	Block, Manifold, Deep-Reach	
13	1	1020951/001	Valve, Counterbalance, Deep-Reach (CB-2)	R
14	1	1020957/001	Valve, Solenoid, Reach, DR32TT	R
15	1	1020951/004	Valve, Counterbalance, Deep-Reach (CB-1)	R

NSS= Not Sold Separately
R= Recommended Spare

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Manifold Assembly, Tilt, DR32TT

Figure 6-23: Manifold Assembly, Tilt, DR32TT



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List 6-23: Manifold Assembly, Tilt, DR32TT

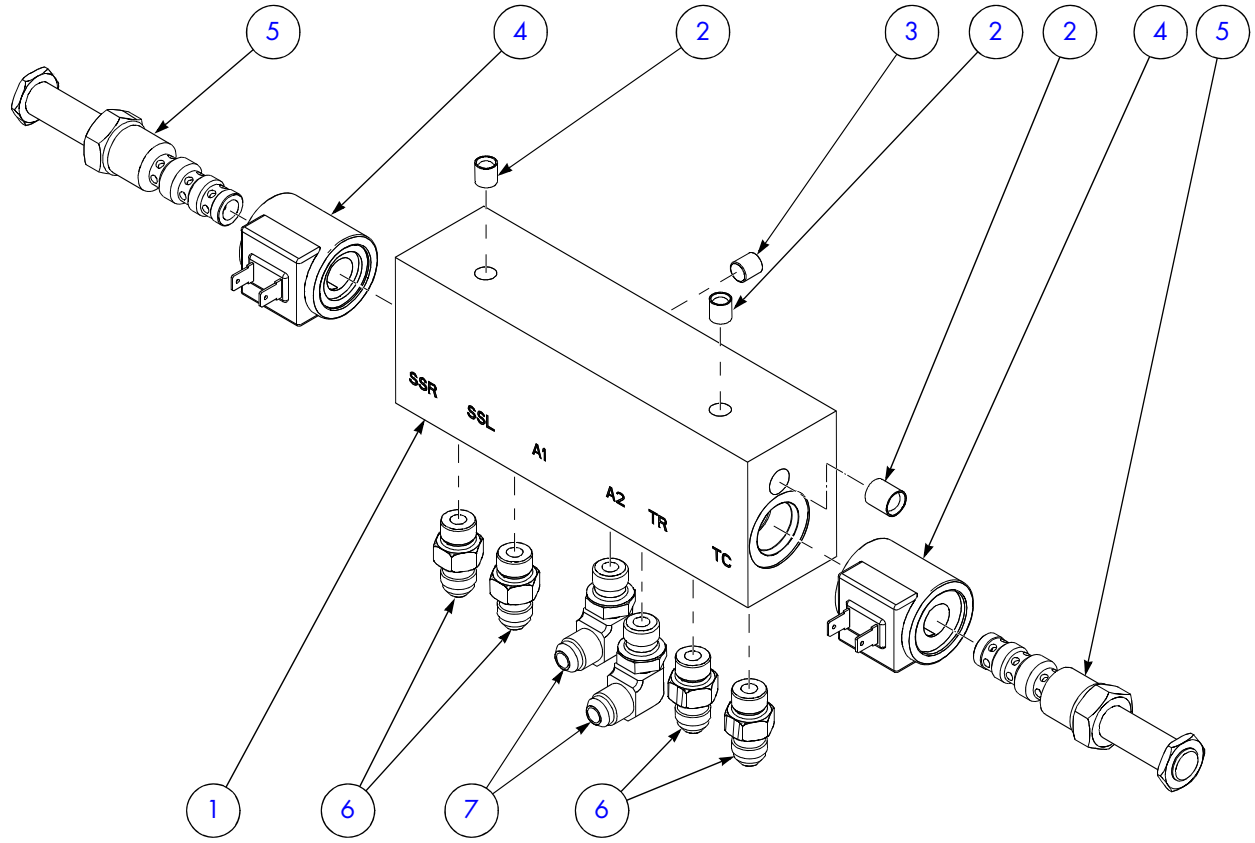
FIGURE 6-23 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	Ref.	1014591/002	Manifold Assembly, Tilt, DR32TT	
1	1	NSS	Block, Manifold, Tilt, DR32TT	
2	2	NSS	Plug, Expansion	
3	1	520-951/003	Coil, Solenoid, Tilt, DR32TT	
4	1	520-968	Valve, Solenoid, Tilt, DR32TT	R
5	2	792-503	Fitting, Straight, Tilt Manifold, DR32TT (TR and TC)	
6	2	792-509	Fitting, Elbow, Tilt Manifold, DR32TT (A1 and A2)	

NSS= Not Sold Separately
R= Recommended Spare

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Manifold Assembly, Tilt and Sideshift, DR32TT

Figure 6-24: Manifold Assembly, Tilt and Sideshift, DR32TT



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List 6-24: Manifold Assembly, Tilt and Sideshift, DR32TT

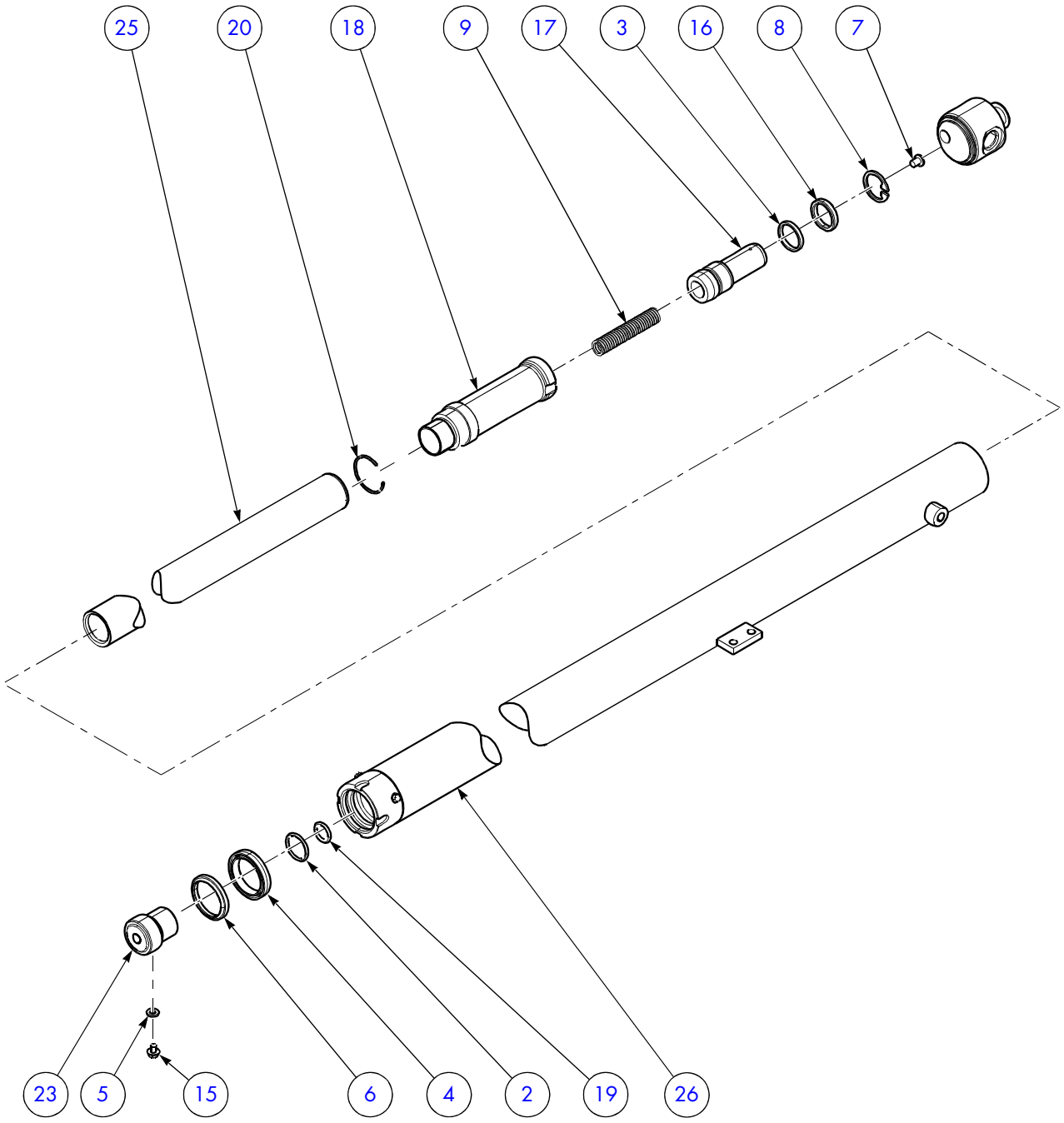
FIGURE 6-24 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1014583/002	Manifold Assembly, Tilt and Sideshift, DR32TT	
1	1	NSS	Block, Manifold, Tilt and Sideshift, DR32TT	
2	3	NSS	Plug, Expansion	
3	1	NSS	Plug, Expansion	
4	2	520-951/003	Coil, Solenoid, Tilt and Sideshift, DR32TT	
5	2	520-968	Valve, Solenoid, Tilt and Sideshift, DR32TT	R
6	4	792-503	Fitting, Straight, Tilt Manifold, DR32TT (TR, TC, SSL, SSR)	
7	2	792-509	Fitting, Elbow, Tilt Manifold, DR32TT (A1 and A2)	

NSS= Not Sold Separately
R= Recommended Spare

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Main Lift Cylinder, Model 7400

Figure 6-25: Main Lift Cylinder, Model 7400



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List 6-25: Main Lift Cylinder, Model 7400

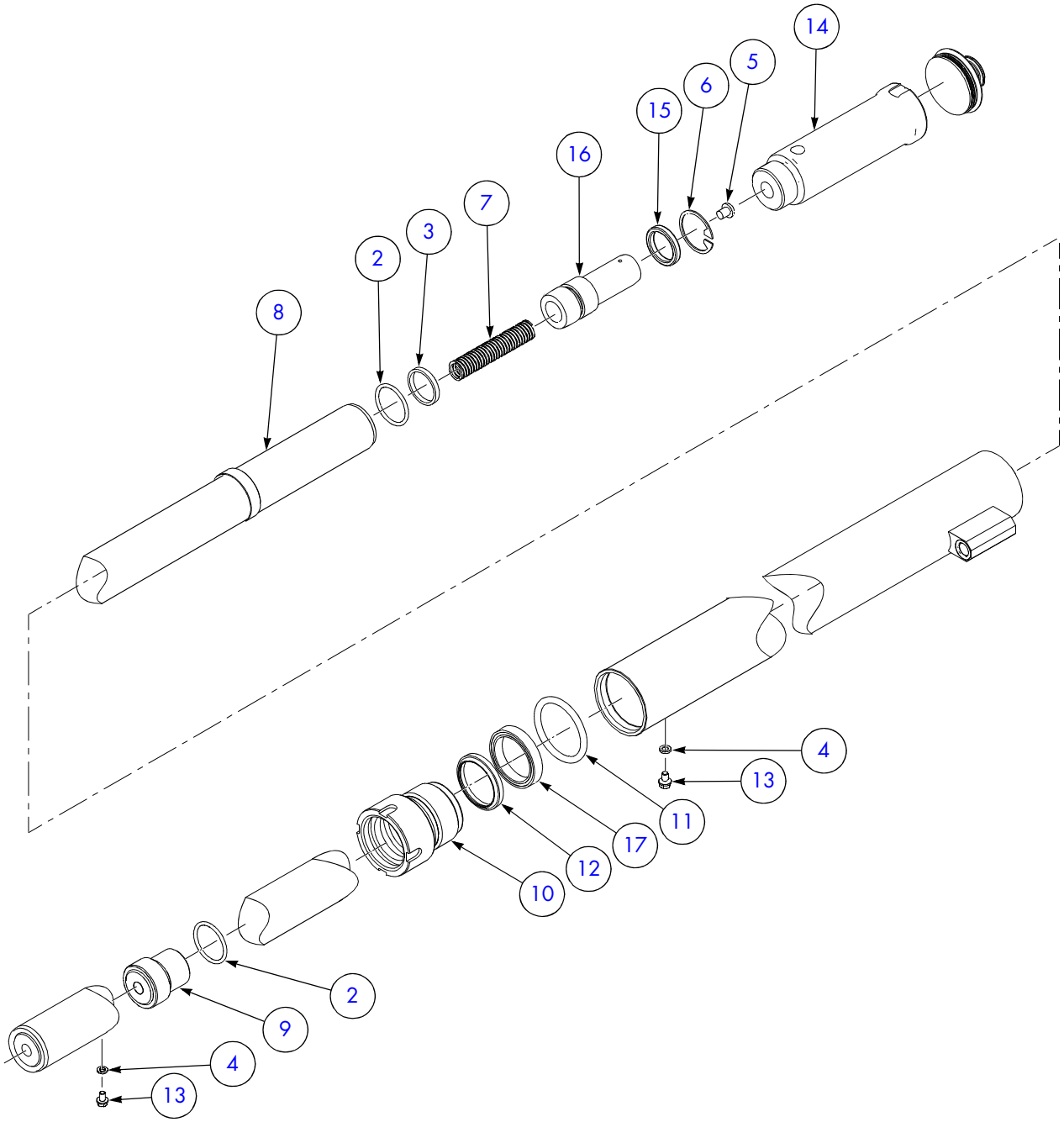
FIGURE 6-25 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		Ref.	Main Lift Cylinder, Model 7400	
2	1	530-534	O-Ring (> 95 in. OACH)	R
3	1	530-633	Seal	B, R
4	1	530-757	Seal, Piston, Main Lift, Model 7400	B, R
5	4	1077665	Ring, Backup	B
6	1	531-613	Seal, Wiper, Cylinder, Main Lift, Model 7400	B, R
7	1	715-033	Screw	
8	1	810-028	Ring, Snap	B
9	1	830-151	Spring, Compression	R
15	4	1075947/001	Screw, Retaining	
16	1	780-004-100	Ring, Retaining	
17	1	780-004-110	Piston, Lowering Cushion, Main Lift, Model 7400	
18	1	828-006-812	Plug, Piston, Main Lift, Model 7400	
19	1	11015-39	O-Ring	B
20	1	27892-00	Ring, Retaining	
23	1	1024922	Plug, Mechanical (> 95 in. OACH)	
25	1	Ref.	Rod, Piston	A
26	1	1086562	Cap, Ram Housing	
27	1	1075590/01	Seal Kit (Not Shown)	

A= Contact Technical Support
B= Included in Item 27
R= Recommended Spare

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Main Lift Cylinder, Models 7420 and 7440

Figure 6-26: Main Lift Cylinder, Models 7420 and 7440



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List 6-26: Main Lift Cylinder, Models 7420 and 7440

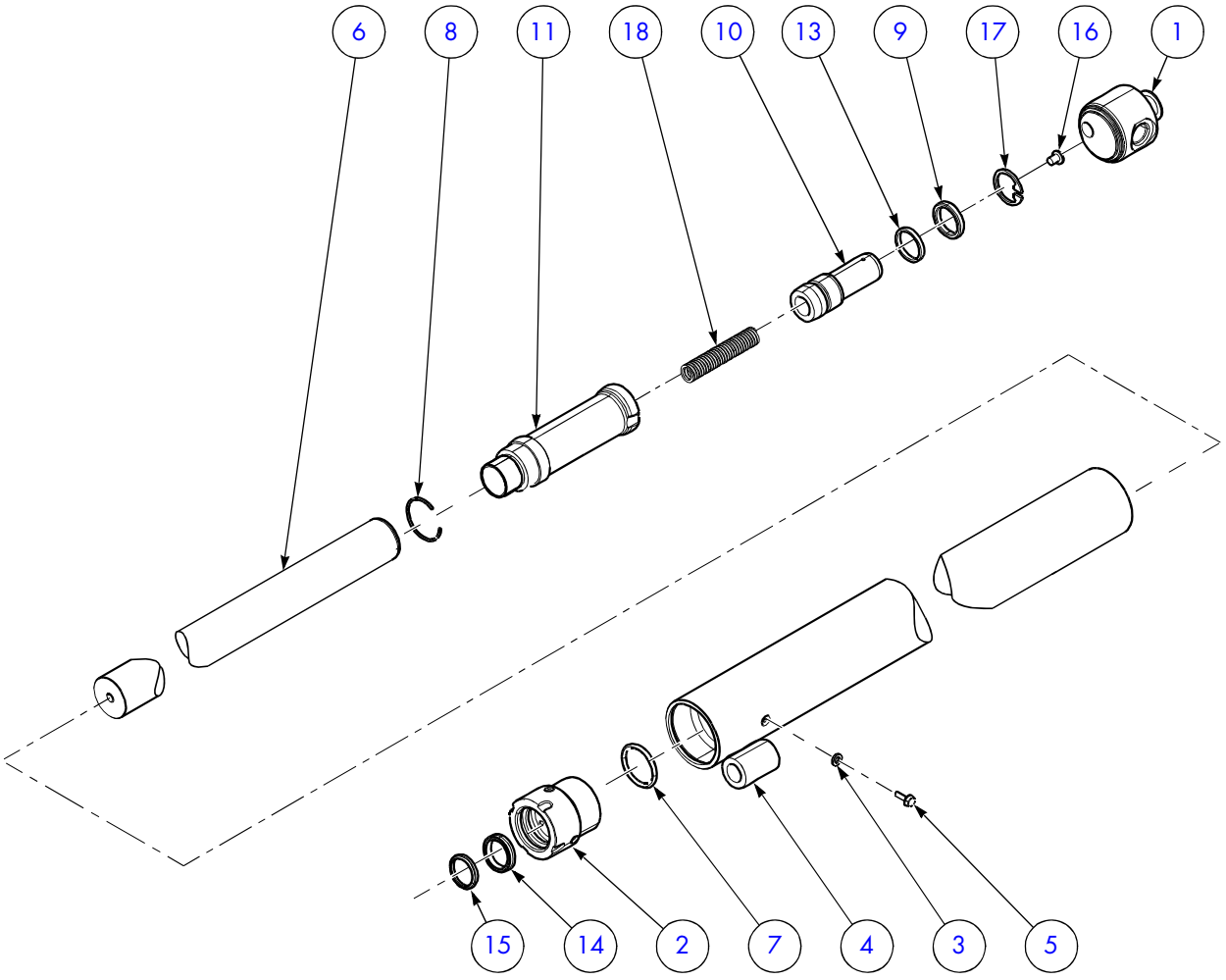
FIGURE 6-26 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		Ref.	Cylinder, Main, 2 in.	A
2	2	530-533	O-Ring	B, R
3	1	530-633	Seal	B, R
4	2	531-025	Ring, Backup	B, R
5	1	715-033	Screw	
6	1	810-028	Ring, Snap	B
7	1	830-151	Spring, Compression	
8	1	1054092/	Rod, Piston	A
9	1	1029552	Plug, Mechanical	
10	1	1029555	Gland, Cylinder, Main Lift, Models 7420 and 7440	
11	1	1038771	O-Ring	B, R
12	1	1038775	Seal, Wiper, Cylinder, Main Lift, Models 7420 and 7440	B, R
13	2	5-011-013	Screw	
14	1	1053820	Plug, Piston, Main Lift, Models 7420 and 7440	
15	1	780-004-100	Ring, Retaining	
16	1	780-004-110	Piston, Lowering Cushion, Main Lift, Models 7420 and 7440	
17	1	1055355	Packing	B
18	1	1055355/01	Seal Kit, Cylinder, Main Lift, Models 7420 and 7440 (Not Shown)	R

A= Contact Technical Support
B= Included in Item 18
R= Recommended Spare

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Cylinder, Free Lift, Non-Staging (DC Lift), Model 7400, R35TT and R45TT

Figure 6-27: Cylinder, Free Lift, Non-Staging (DC Lift), Model 7400, R35TT and R45TT



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List 6-27: Cylinder, Free Lift, Non-Staging (DC Lift), Model 7400, R35TT and R45TT

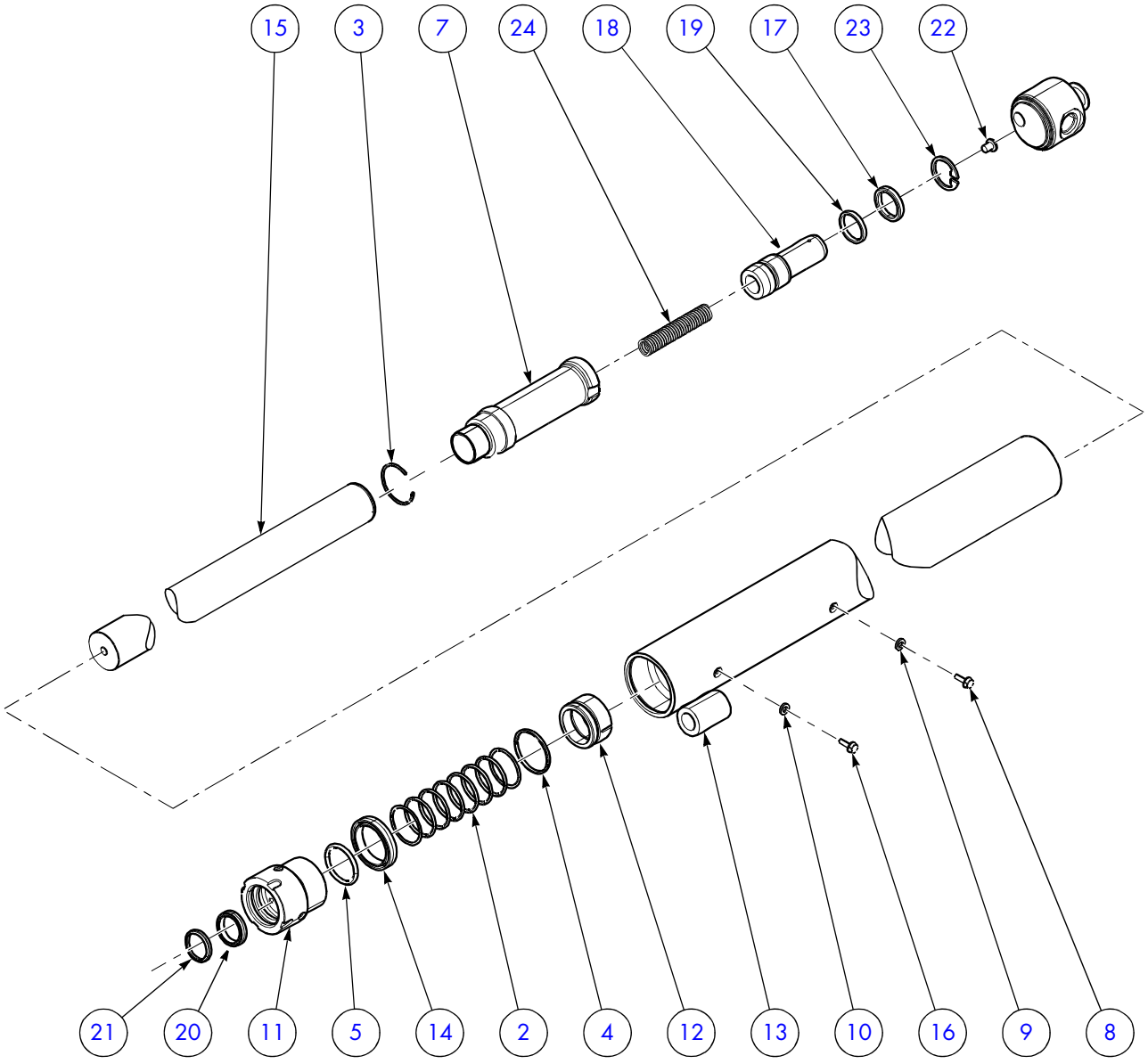
FIGURE 6-27 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1072059	Plug, Mechanical, Cylinder	
2	1	1086562	Cap, Ram Housing	
3	3	1077665	Ring, Backup	B
4	1	1080008	Sleeve	
5	3	1075947/001	Screw, Retaining	
6	1	Ref.	Rod, Piston, Free Lift, Non-Staging	A
7	1	11015-39	O-Ring	B
8	1	27892-00	Ring, Stop	
9	1	780-004-100	Ring, Retainer	
10	1	780-004-110	Piston, Lowering	
11	1	828-006-812	Plug, Mechanical	
13	1	530-633	Seal	B
14	1	530-757	Seal, Piston	B
15	1	531-613	Seal, Wiper	B
16	1	715-033	Screw, Cap	
17	1	810-028	Ring, Snap	B
18	1	830-151	Spring	
19	1	1075590/01	Seal Kit, Free Lift, Non-Staging (Not Shown)	

A= Contact Technical Support
B= Included in Item 19

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Cylinder, Free Lift, Staging (AC Lift), Model 7400

Figure 6-28: Cylinder, Free Lift, Staging (AC Lift), Model 7400



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List 6-28: Cylinder, Free Lift, Staging (AC Lift), Model 7400

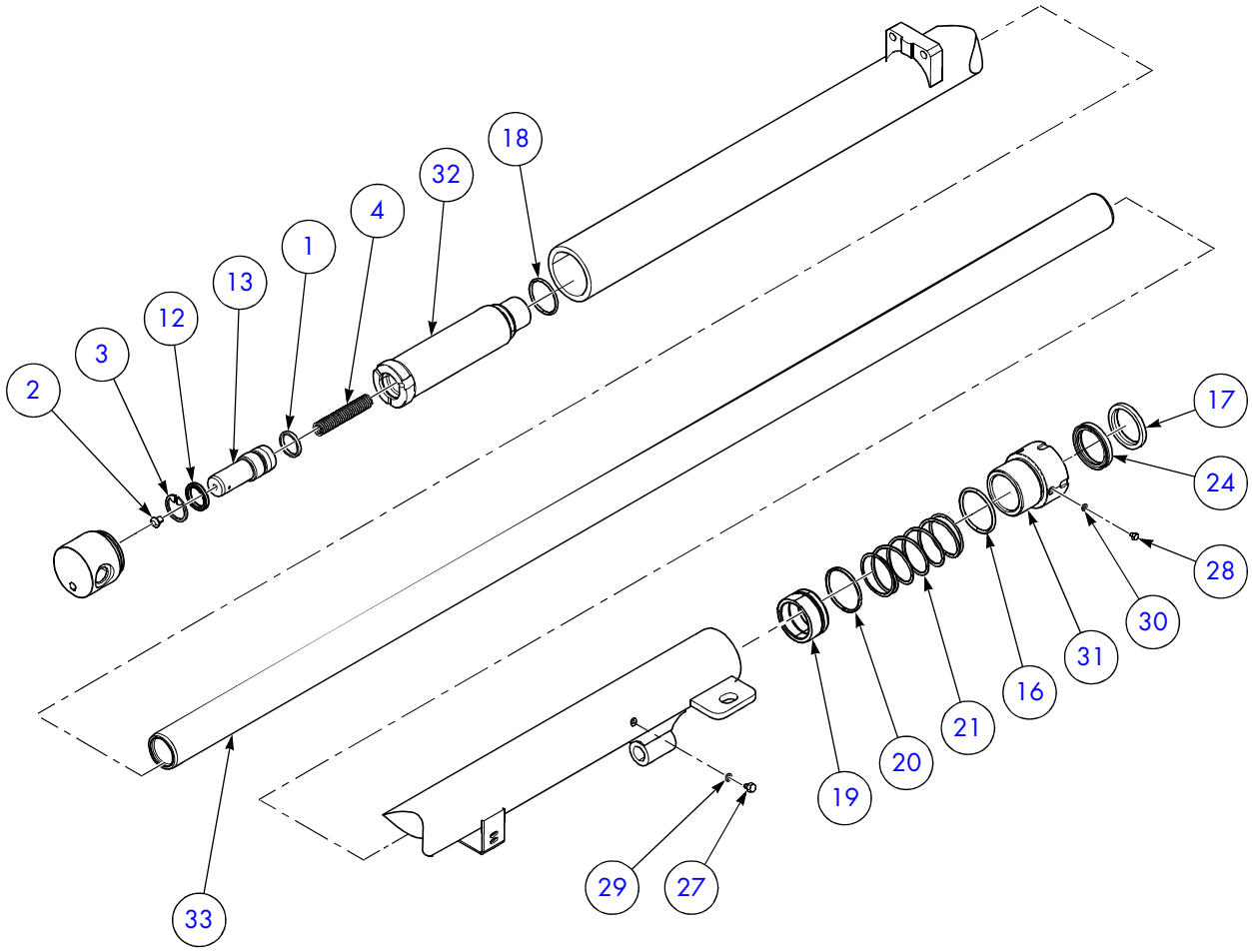
FIGURE 6-28 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	1	1004159	Spring, Compression	
3	1	1004214	O-Ring	B, R
4	1	1017035	Sleeve, Piston Ring	
5	1	1038771	O-Ring	B
7	1	1074468	Plug, Mechanical Piston	
8	3	1075831	Screw, Retaining	
9	3	1077661	Ring, Backup	B
10	3	1077665	Ring, Backup	B
11	1	1086563	Gland, Cylinder	
12	1	1078364	Piston, Pressure	
13	1	1080008	Sleeve	
14	1	1016480/001	Ring, Ram Spacer (87 in. OACH Only)	
	1	1016480/002	Ring, Ram Spacer (88 in. OACH Only)	
	1	1016480/003	Ring, Ram Spacer (89 in. OACH Only)	
	1	1016480/004	Ring, Ram Spacer (90 in. OACH Only)	
	1	1016480/005	Ring, Ram Spacer (91 in. OACH Only)	
	1	1016480/006	Ring, Ram Spacer (92 in. OACH Only)	
	1	1016480/007	Ring, Ram Spacer (93 in. OACH Only)	
	1	1016480/008	Ring, Ram Spacer (94 in. OACH Only)	
15	1	Ref.	Rod, Piston, Free Lift, Staging	A
16	3	1075947/001	Screw, Retaining	
17	1	780-004-100	Ring, Retaining	
18	1	780-004-110	Piston, Lowering Cushion, Main Lift, Model 7400	
19	1	530-633	Seal	B
20	1	530-757	Seal, Piston	B
21	1	531-613	Seal, Wiper	B
22	1	715-033	Screw, Cap	B
23	1	810-028	Ring, Snap	B
24	1	830-151	Spring	
25	1	1073253/01	Seal Kit, Cylinder, Free Lift, Staging (Not Shown)	

A= Contact Technical Support
B= Included in Item 25
R= Recommended Spare

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Cylinder, Free Lift, Staging (AC Lift), Models 7420 and 7440

Figure 6-29: Cylinder, Free Lift, Staging (AC Lift), Models 7420 and 7440



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List 6-29: Cylinder, Free Lift, Staging (AC Lift), Models 7420 and 7440

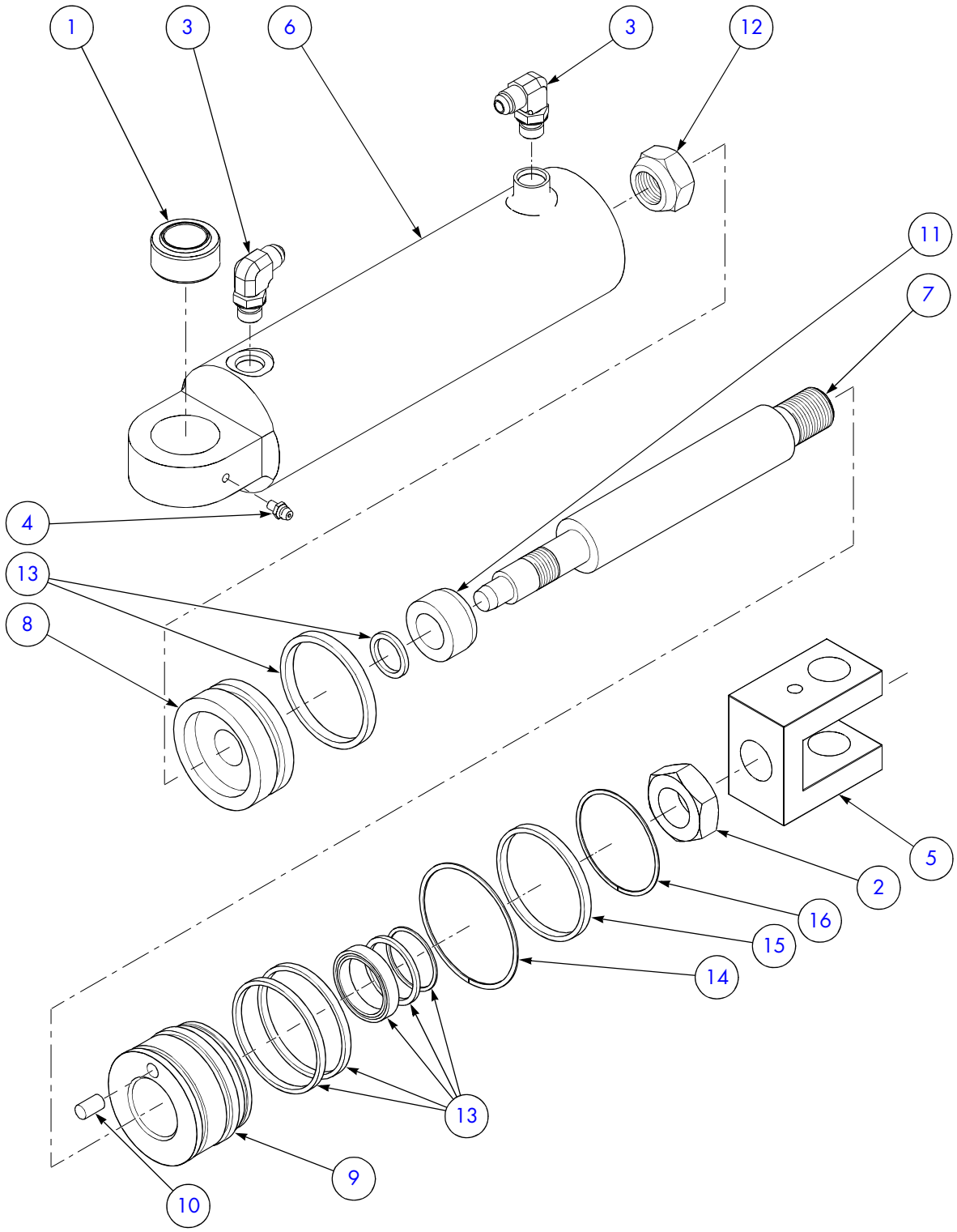
FIGURE 6-29 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		Ref.	Cylinder, Free Lift, Staging, Left-Hand	A
		Ref.	Cylinder, Free Lift, Staging, Right-Hand	A
1	1	530-633	Seal	B, R
2	1	715-033	Screw	
3	1	810-028	Ring, Snap	B
4	1	830-151	Spring, Compression	R
12	1	780-004-100	Ring, Retaining	
13	1	780-004-110	Piston, Lowering Cushion, Main Lift	
16	1	1038771	O-Ring	B
17	1	1038775	Seal, Wiper, Cylinder, Free Lift, Staging, Models 7420 and 7440	B
18	1	1038832	O-Ring	
19	1	1088993	Piston, Pressure, Free Lift, Staging, Models 7420 and 7440	
20	1	1038838	Sleeve, Piston Ring	
21	1	1038855	Spring, Compression	
24	1	1055355	Packing	B
27	3	1075831	Screw	
28	2	1075947/001	Screw	
29	3	1077661	Ring, Backup	
30	2	1077665	Ring, Backup	
31	1	1081249	Gland, Cylinder	
32	1	1081250	Plug, Mechanical Piston	
33	1	Ref.	Rod, Piston, Free Lift, Staging	A
36	1	1055355/01	Seal Kit, Cylinder, Free Lift, Staging, Models 7420 and 7440 (Not Shown)	R

A= Contact Technical Support
B= Included in Item 36
R= Recommended Spare

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Cylinder Assembly, Reach

Figure 6-30: Cylinder Assembly, Reach



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List 6-30: Cylinder Assembly, Reach

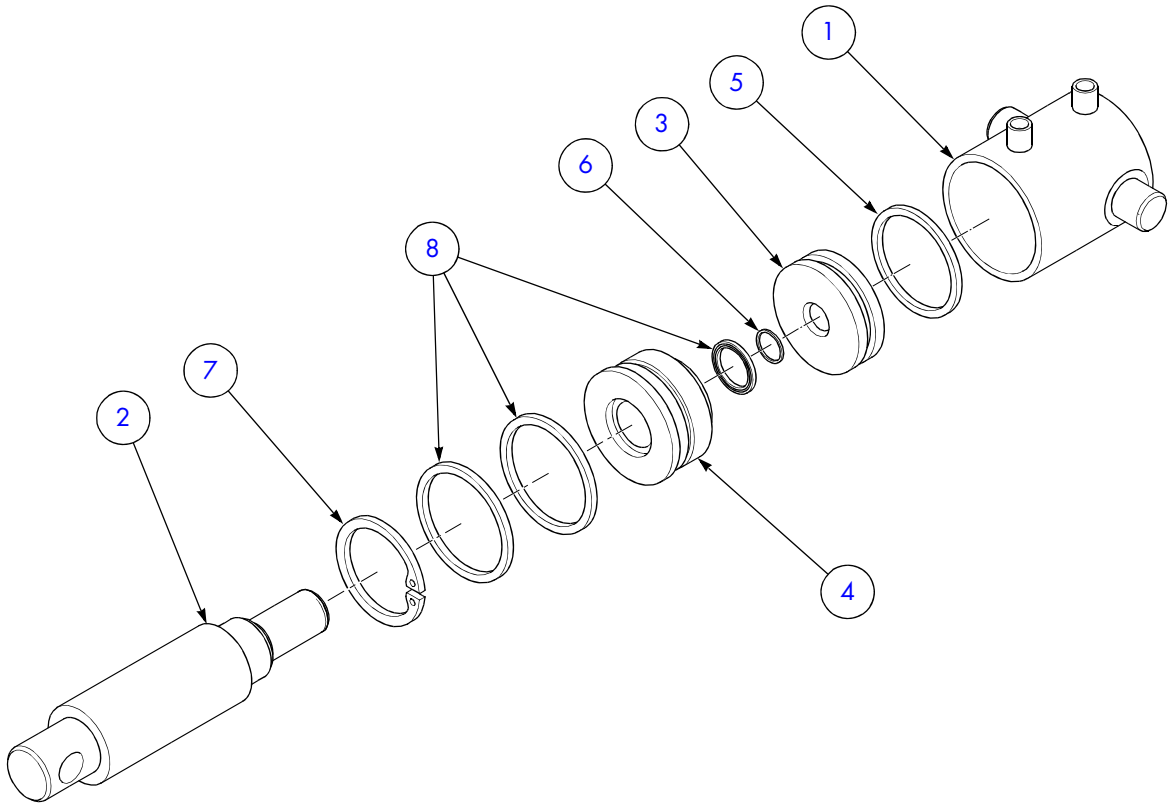
FIGURE 6-30 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1090408	Cylinder Assembly, Single Reach (includes: items 1 thru 5)	A
		1045576	Cylinder Assembly, Deep-Reach (includes: items 1 thru 5)	B
1	1	460-690	Bearing, Spherical	R
2	1	750-468	Nut	
3	2	792-509	Fitting, Elbow, Reach Cylinder	
4	1	840-060	Fitting, Grease	A
	1	840-068	Fitting, Grease	B
5	1	1080353	Yoke, Reach Cylinder	
6		1022180/400	Cylinder, Single Reach	A
		1045577/400	Cylinder Assembly, Deep-Reach	B
	1	1022180/411	Housing, Cylinder, Single Reach	A
	1	1013792/411	Housing, Cylinder, Deep-Reach	B
7	1	1022180/413	Rod, Single Reach	A
	1	1013792/413	Rod, Deep-Reach	B
8	1	1022180/412	Piston, Single Reach	A
	1	1013792/412	Piston, Deep-Reach	B
9	1	1022180/414	Gland, Cylinder, Single Reach	A
	1	1013792/414	Gland, Cylinder, Deep-Reach	B
10	1	1022180/424	Valve, Check, Reach Cylinder	R
11	1	1022180/423	Cushion Sleeve, Single Reach	A
	1	1013792/423	Cushion Sleeve, Deep-Reach	B
12	1	1008676/07	Nut, Lock	A
	1	540-070/417	Nut, Lock	B
13	1	1022180/422	Seal Kit, Cylinder, Single Reach	A, R
	1	1013792/422	Seal Kit, Cylinder, Deep-Reach	B, R
14	1	1022180/418	Ring, Retaining, Internal	A
	1	540-070/418	Ring, Retaining, Internal	B
15	1	1022180/416	Spacer, Cylinder Head	A
	1	540-070/416	Spacer, Cylinder Head	B
16	1	1022180/419	Ring, Retaining, External	A
	1	540-070/415	Ring, Retaining, External	B

A= R35TT and R45TT
B= DR32TT
R= Recommended Spare

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Cylinder Assembly, Tilt

Figure 6-31: Cylinder Assembly, Tilt



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List 6-31: Cylinder Assembly, Tilt

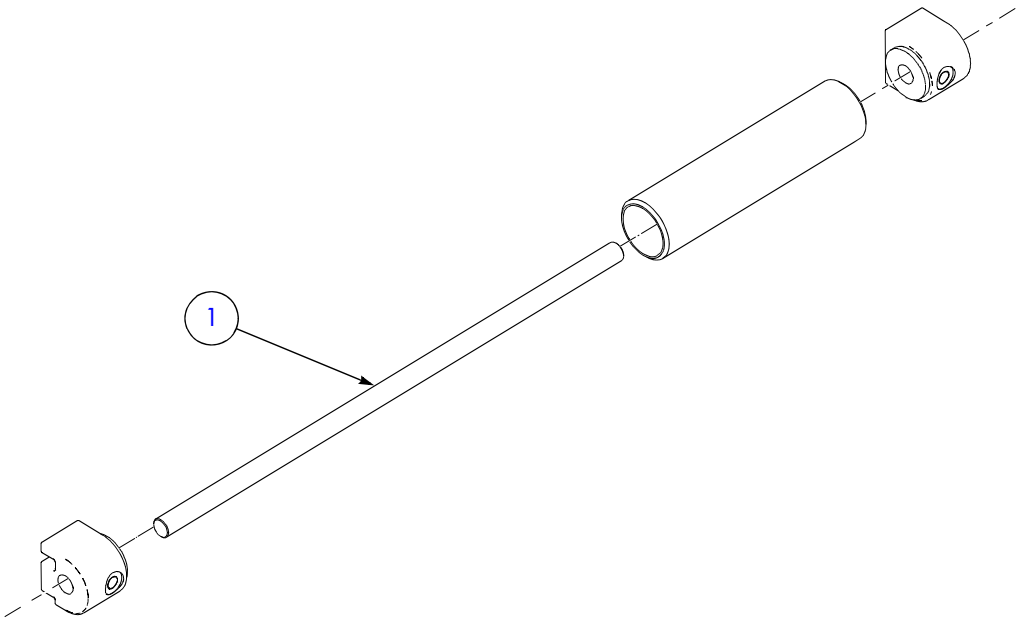
FIGURE 6-31 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1030006	Cylinder, Tilt, R35TT and R45TT	A
		540-084/400	Cylinder, Tilt, DR32TT	B
1	1	1008283/410	Housing, Cylinder, Tilt, R35TT and R45TT	A
	1	540-067/410	Housing, Cylinder, Tilt, DR32TT	B
2	1	1008283/411	Rod, Piston, Tilt, R35TT and R45TT	A
	1	540-067/411	Rod, Piston, Tilt, DR32TT	B
3	1	1008283/412	Piston, Tilt, R35TT and R45TT	A
	1	540-067/412	Piston, Tilt, DR32TT	B
4	1	1008283/413	Gland, Cylinder, Tilt, R35TT and R45TT	A
	1	540-067/413	Gland, Cylinder, Tilt, DR32TT	B
5	1	1008283/414	Spacer	A
	1	540-067/414	Spacer	B
6	1	1008283/415	Ring, Lock, Internal	A
	1	540-067/415	Ring, Lock, Internal	B
7	1	1008283/416	Ring, Snap, External	A
	1	540-067/416	Ring, Snap, External	B
8	1	1008283/424	Seal Kit, Cylinder, Tilt, R35TT and R45TT	A, R
	1	540-067/214	Seal Kit, Cylinder, Tilt, DR32TT	B, R
9	1	1008283/423	Nut, Lock (Not Shown)	A

A= R35TT and R45TT
B= DR32TT
R= Recommended Spare

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Cylinder Assembly, Sideshift

Figure 6-32: Cylinder Assembly, Sideshift



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List 6-32: Cylinder Assembly, Sideshift

FIGURE 6-32 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	Ref.	1037382/400	Cylinder Assembly, 2 in. Sideshift	
	Ref.	1037383/400	Cylinder Assembly, 4 in. Sideshift	
1	2	1014796/411	Rod, Cylinder, Sideshift	
2	1	1014796/412	Kit, Seal, Cylinder, Sideshift (Not Shown)	R

R= Recommended Spare

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SECTION 7 Mast

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Baseleg Installation, R35TT, 4 x 2.88 in., Closed Toe 7-148
Baseleg Installation, R45TT, 5 x 3.62 in., Open Toe 7-150
Baseleg Installation, R45TT, 5 x 3.62 in., Closed Toe 7-152
Baseleg Installation, R45TT, 5 x 2.88 in., Open Toe 7-154
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Baseleg Installation, R45TT, 4 x 3.62 in., Closed Toe 7-158
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Baseleg Installation, DR32TT, 5 x 3.62 in., Closed Toe 7-162
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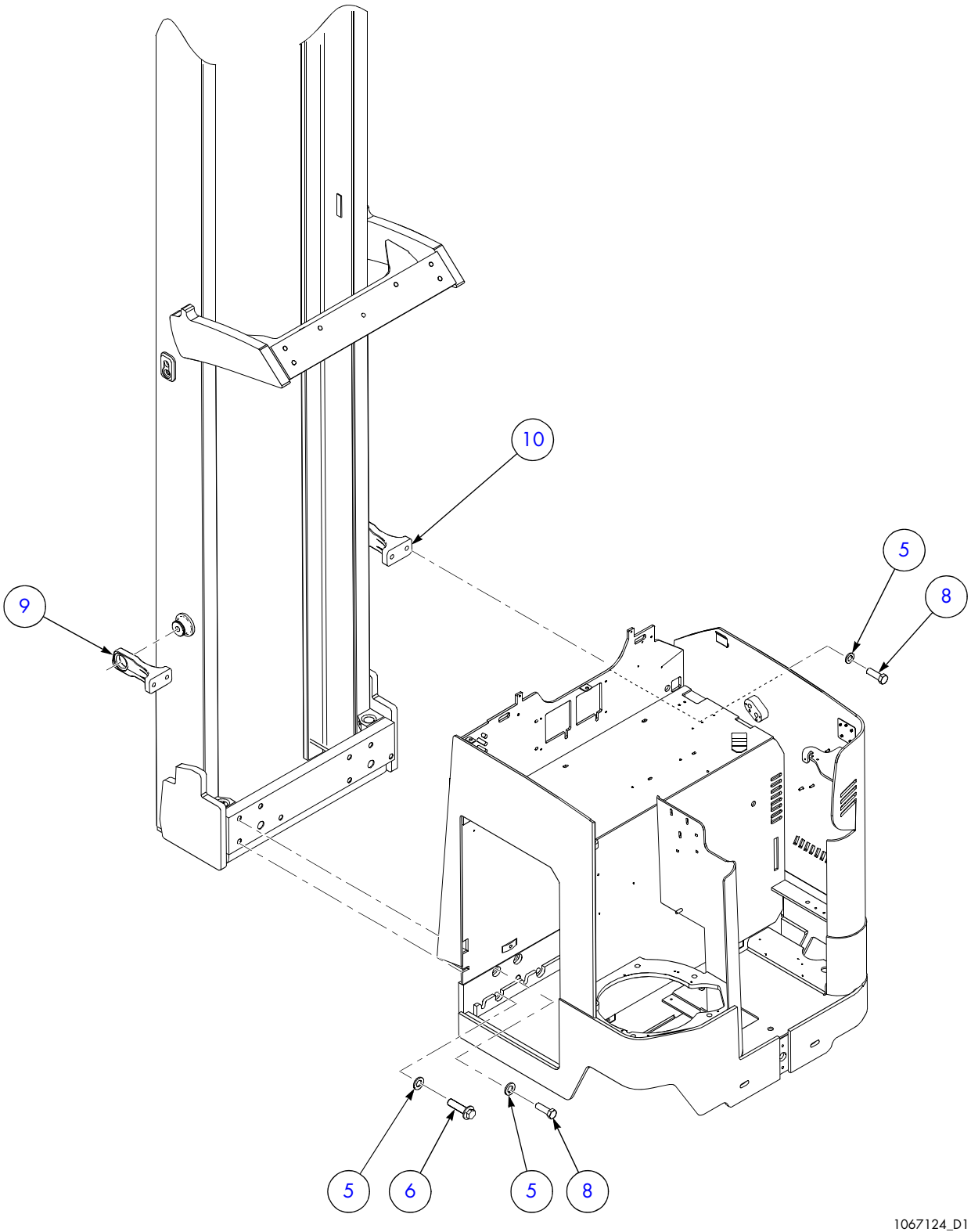
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Mast to Tractor Mounting, Model 7400

Figure 7-1: Mast to Tractor Mounting, Model 7400



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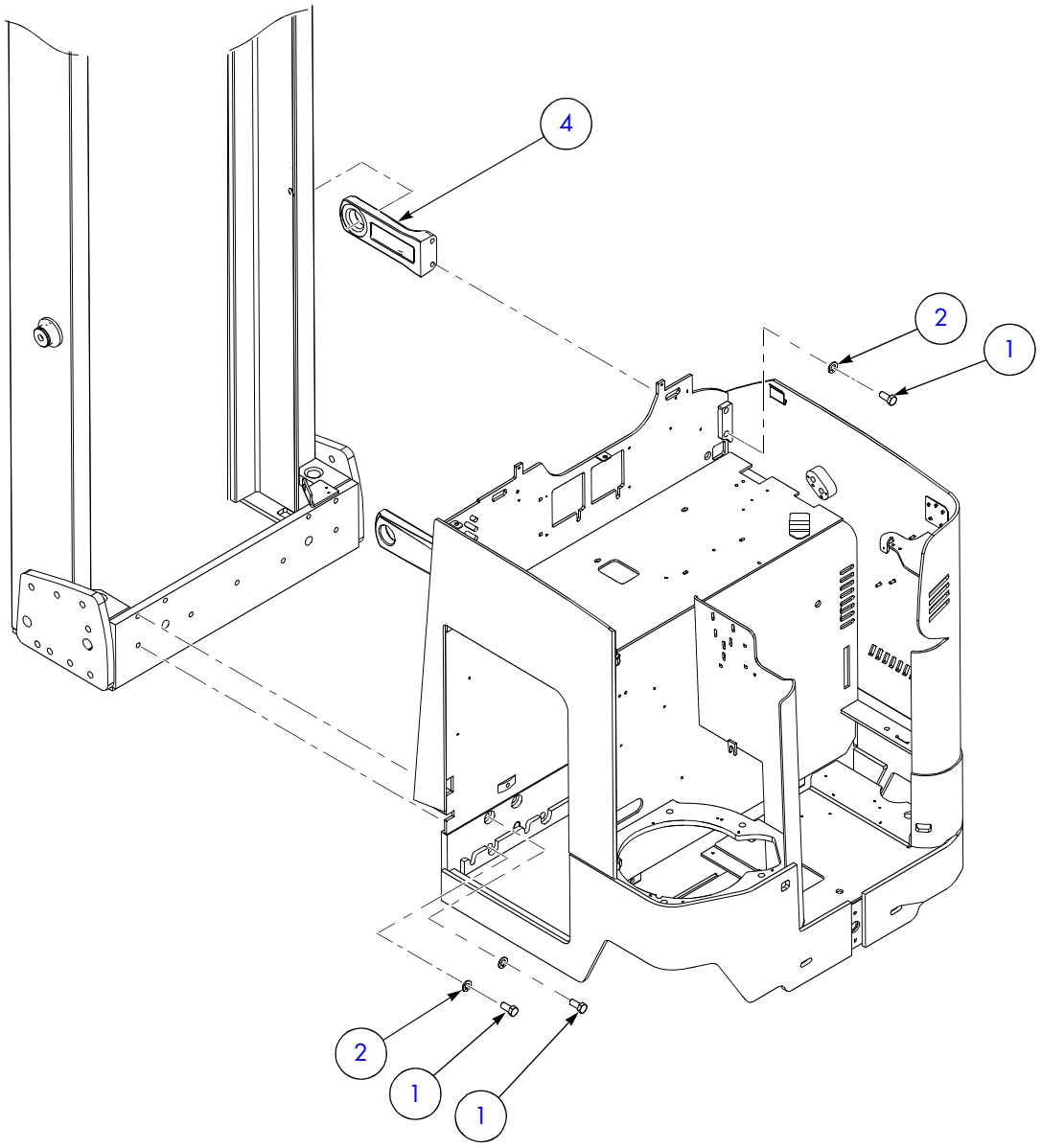
List 7-1: Mast to Tractor Mounting, Model 7400

FIGURE 7-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
5	12	1028409	Washer	
6	4	7-710-016/060	Bolt, Hex Flange	
8	4	1045715	Screw, Hex Head Cap	
9	1	1090132/001	Connector, Mast, Left-Hand, Model 7400	
10	1	1090132/002	Connector, Mast, Right-Hand, Model 7400	

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Mast to Tractor Mounting, Models 7420 and 7440

Figure 7-2: Mast to Tractor Mounting, Models 7420 and 7440



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List 7-2: Mast to Tractor Mounting, Models 7420 and 7440

FIGURE 7-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	12	1045715	Screw, Hex Head Cap	
2	12	1028409	Washer	
4	1	1054928	Connector, Mast, Models 7420 and 7440	

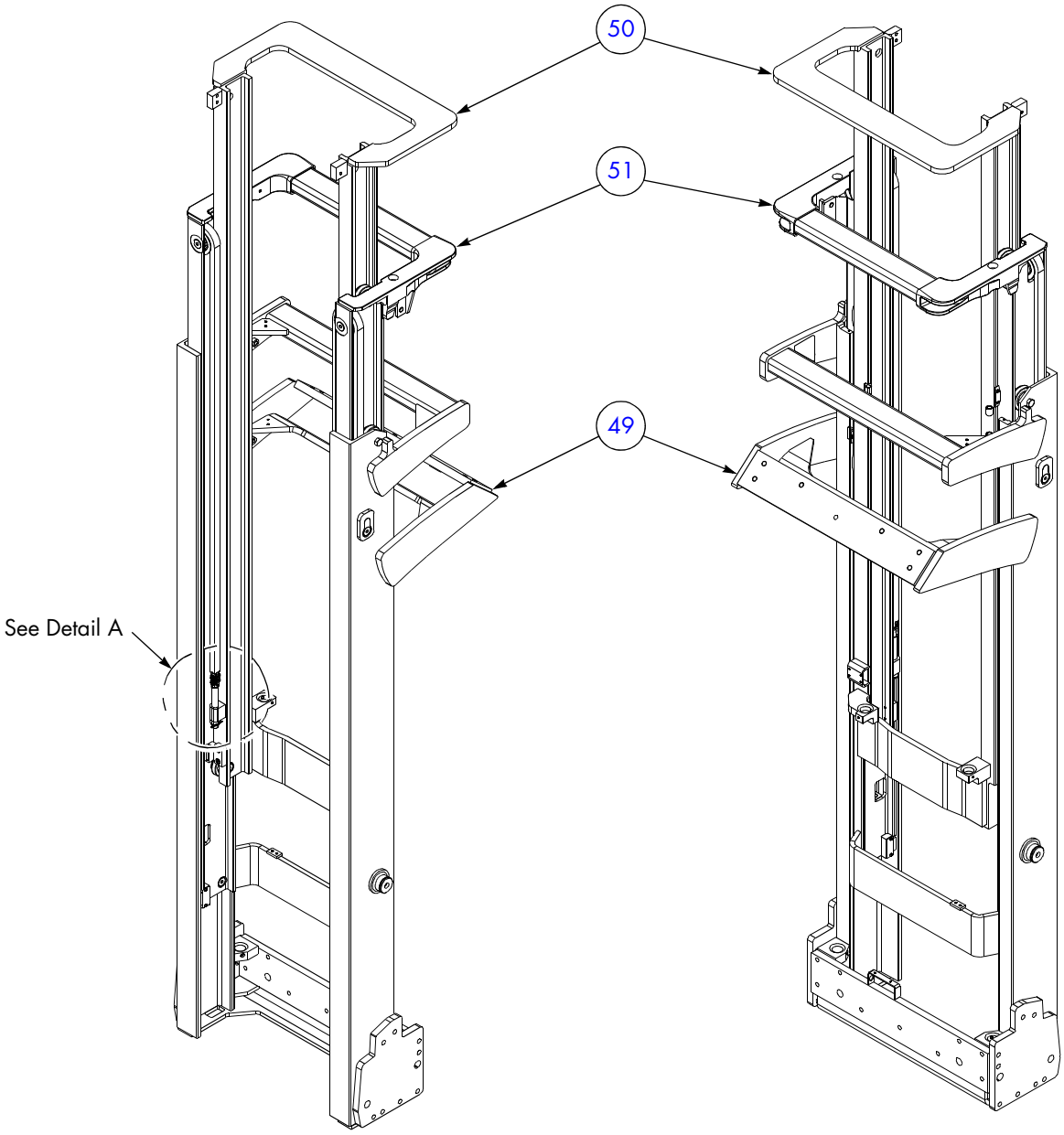
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Elevating Section, R35TT

Figure 7-3a: Elevating Section, R35TT

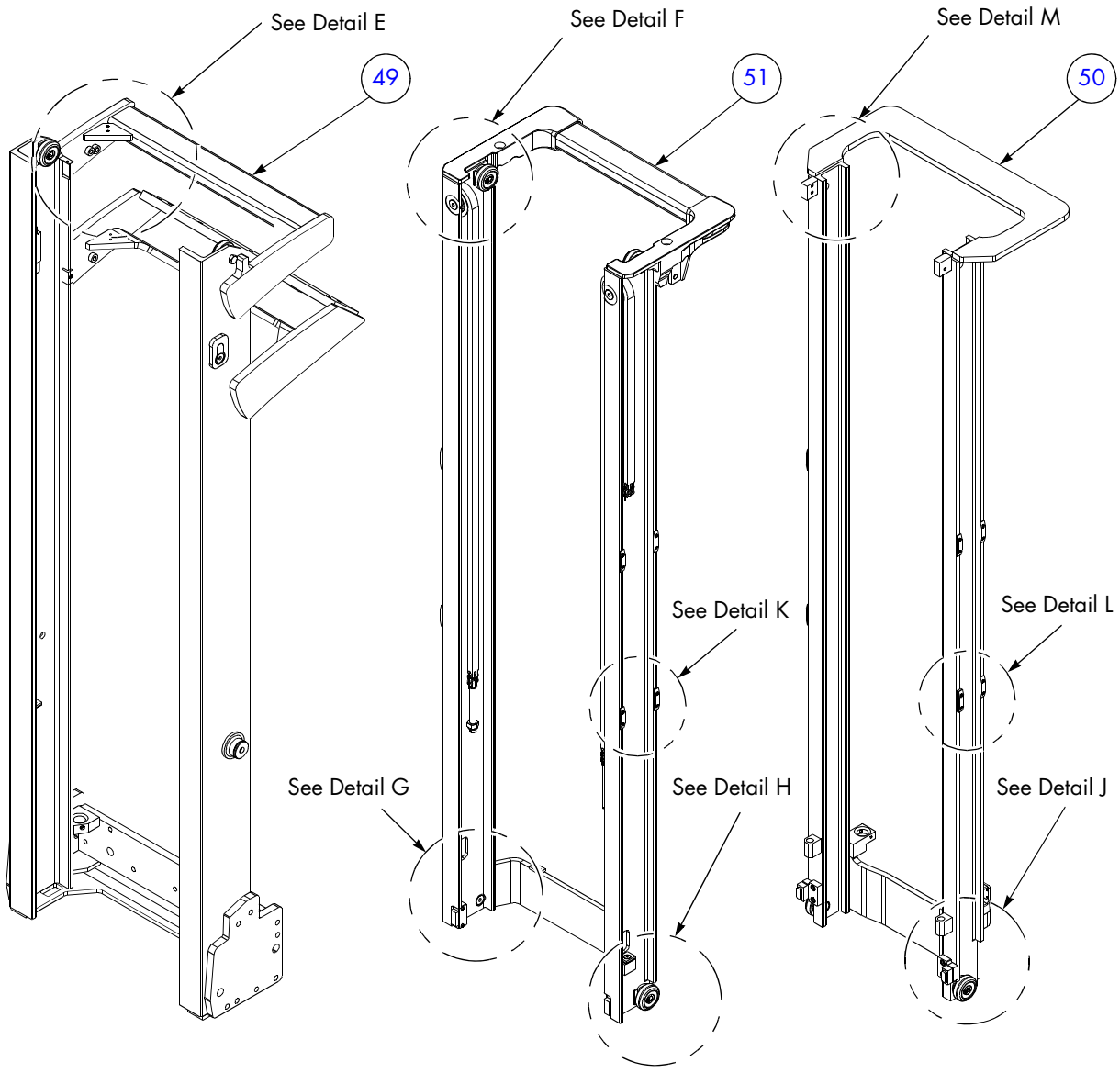


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Elevating Section, R35TT

Figure 7-3b: Elevating Section, R35TT

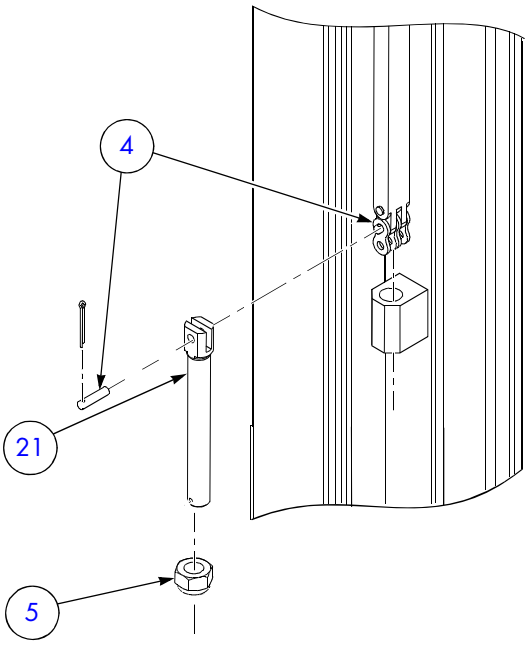


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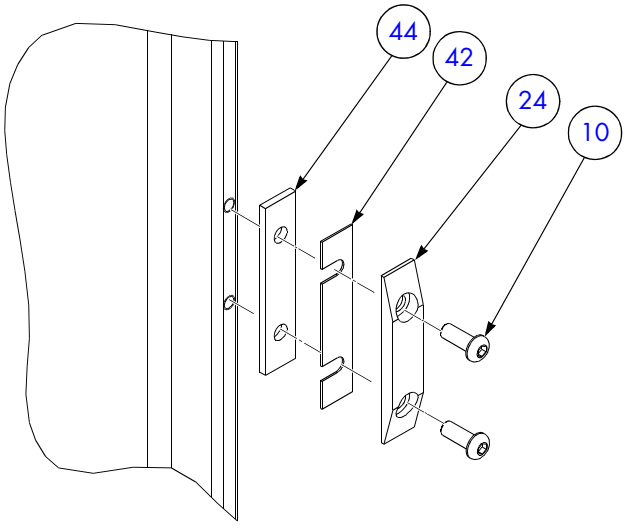
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Elevating Section, R35TT

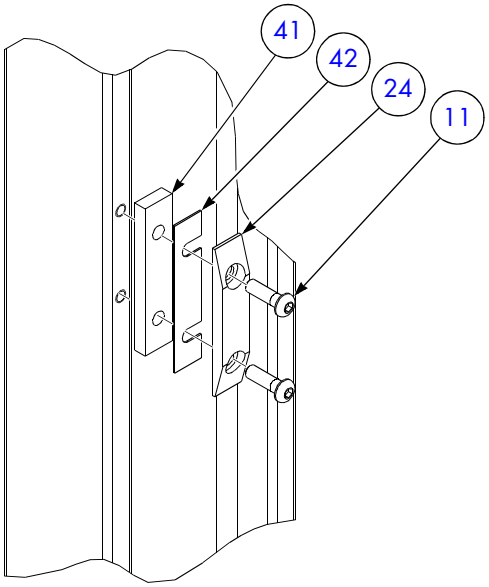
Figure 7-3c: Elevating Section, R35TT



DETAIL A



DETAIL K



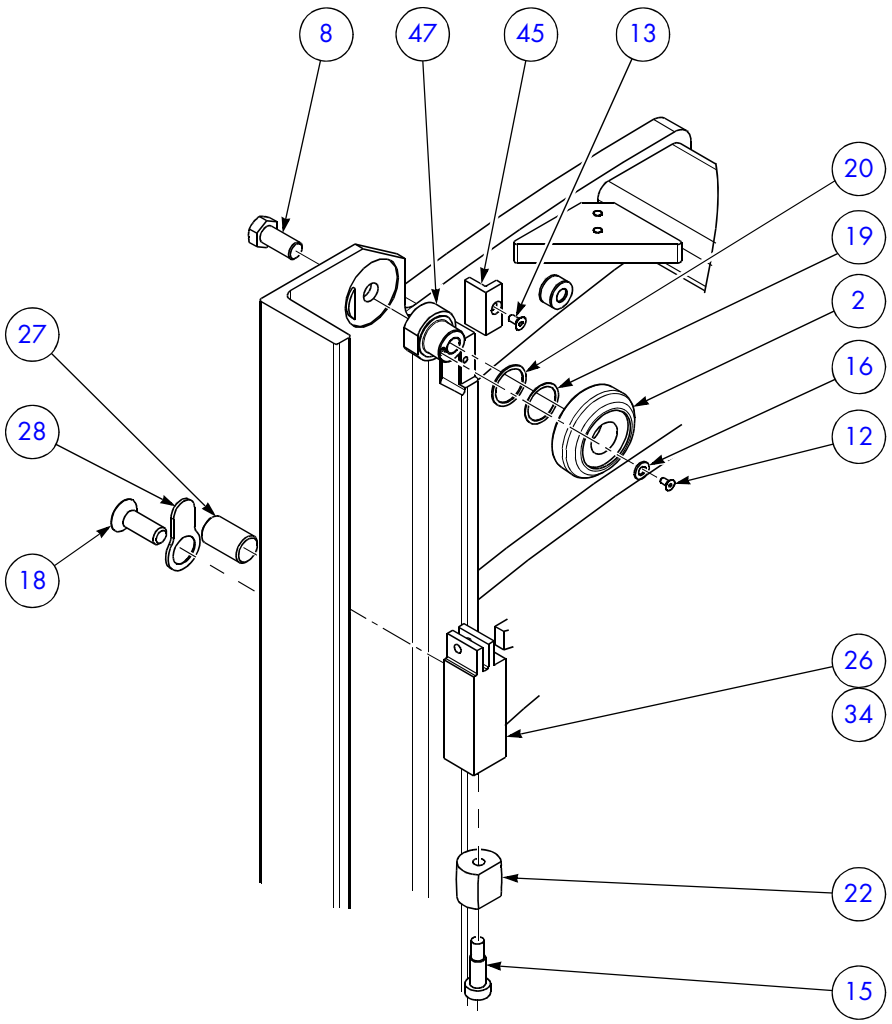
DETAIL L

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Elevating Section, R35TT

Figure 7-3d: Elevating Section, R35TT



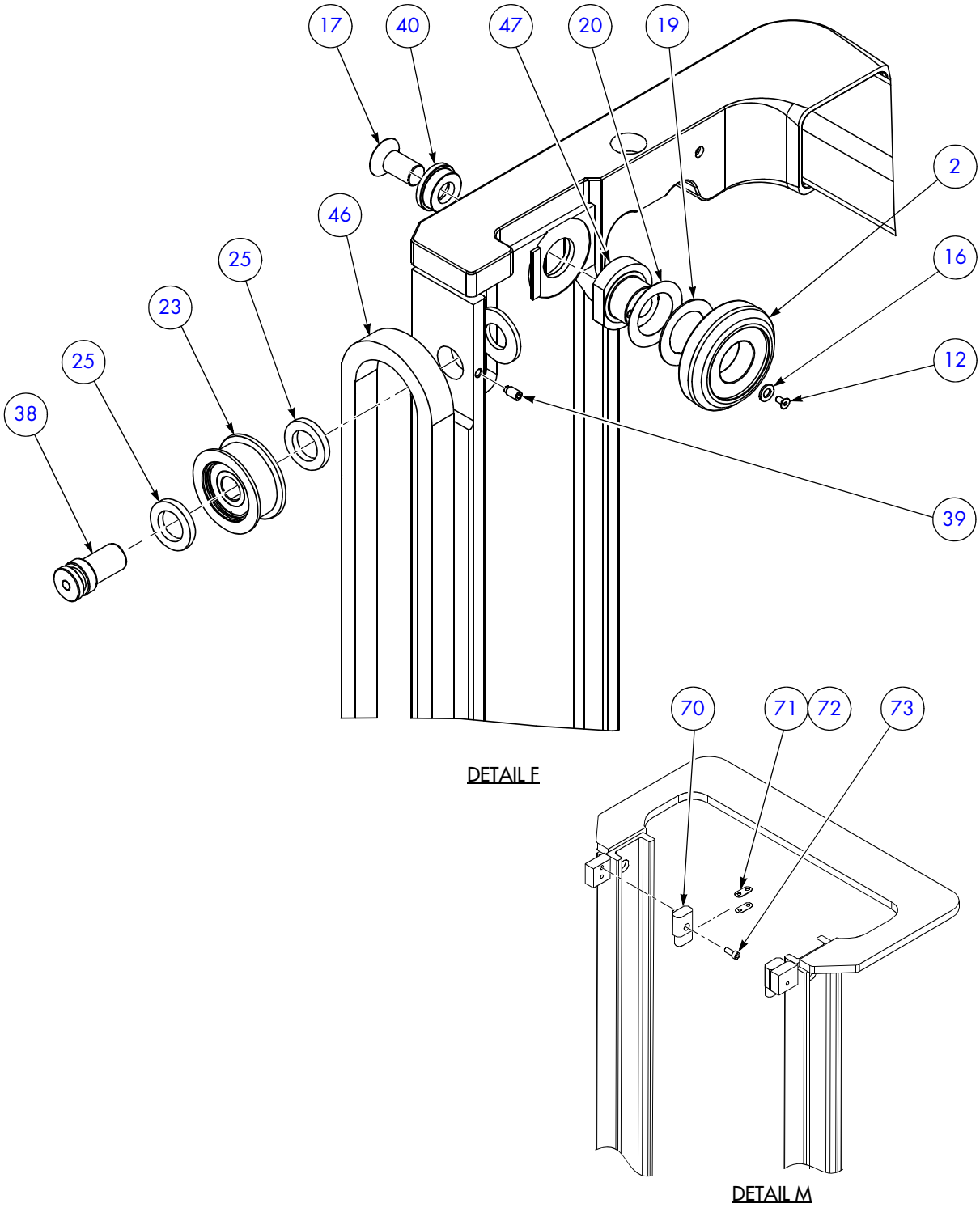
DETAIL E

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Elevating Section, R35TT

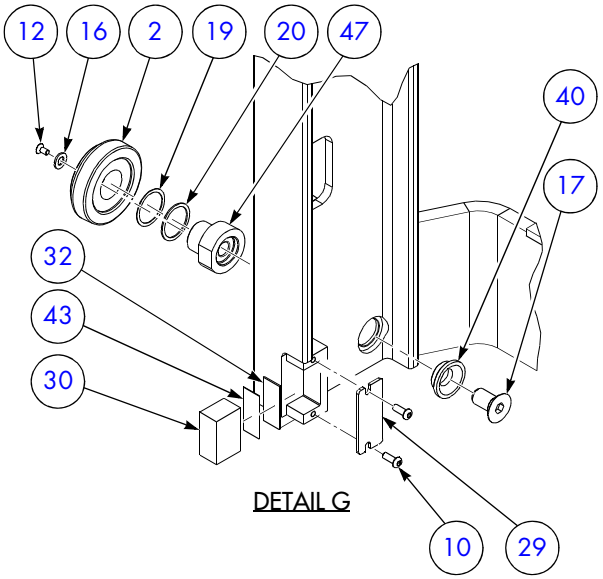
Figure 7-3e: Elevating Section, R35TT



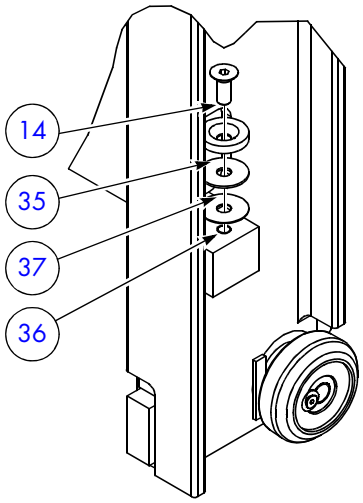
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Elevating Section, R35TT

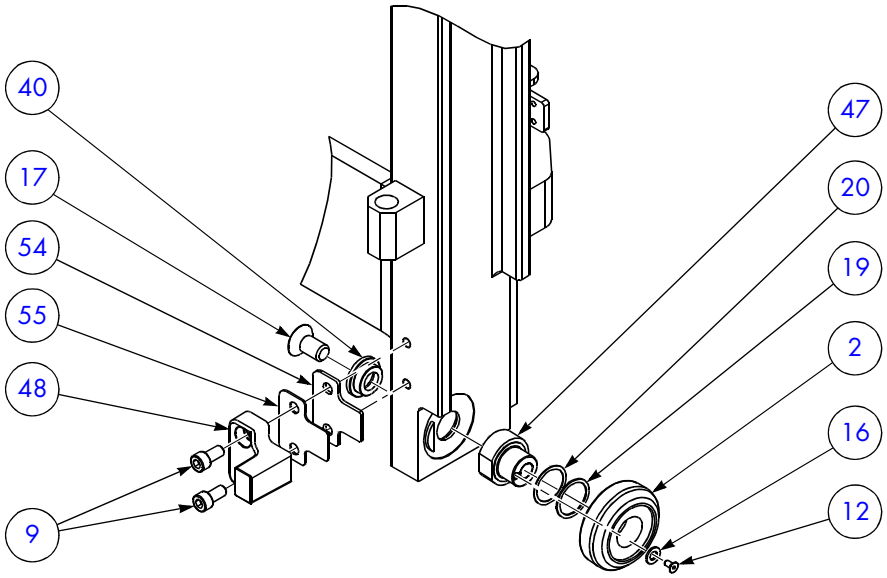
Figure 7-3f: Elevating Section, R35TT



DETAIL G



DETAIL H



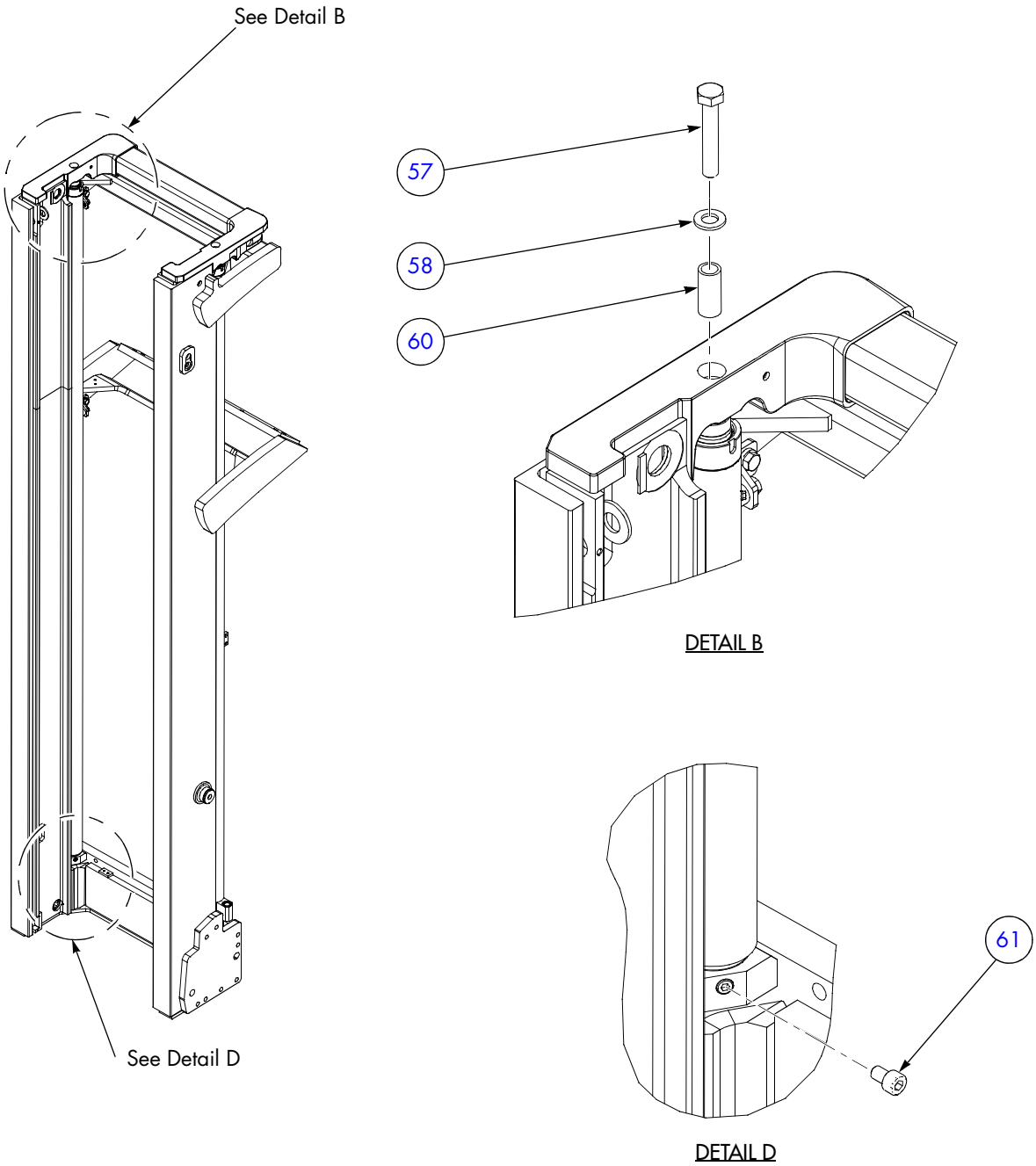
DETAIL J

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Elevating Section, R35TT

Figure 7-3g: Elevating Section, R35TT

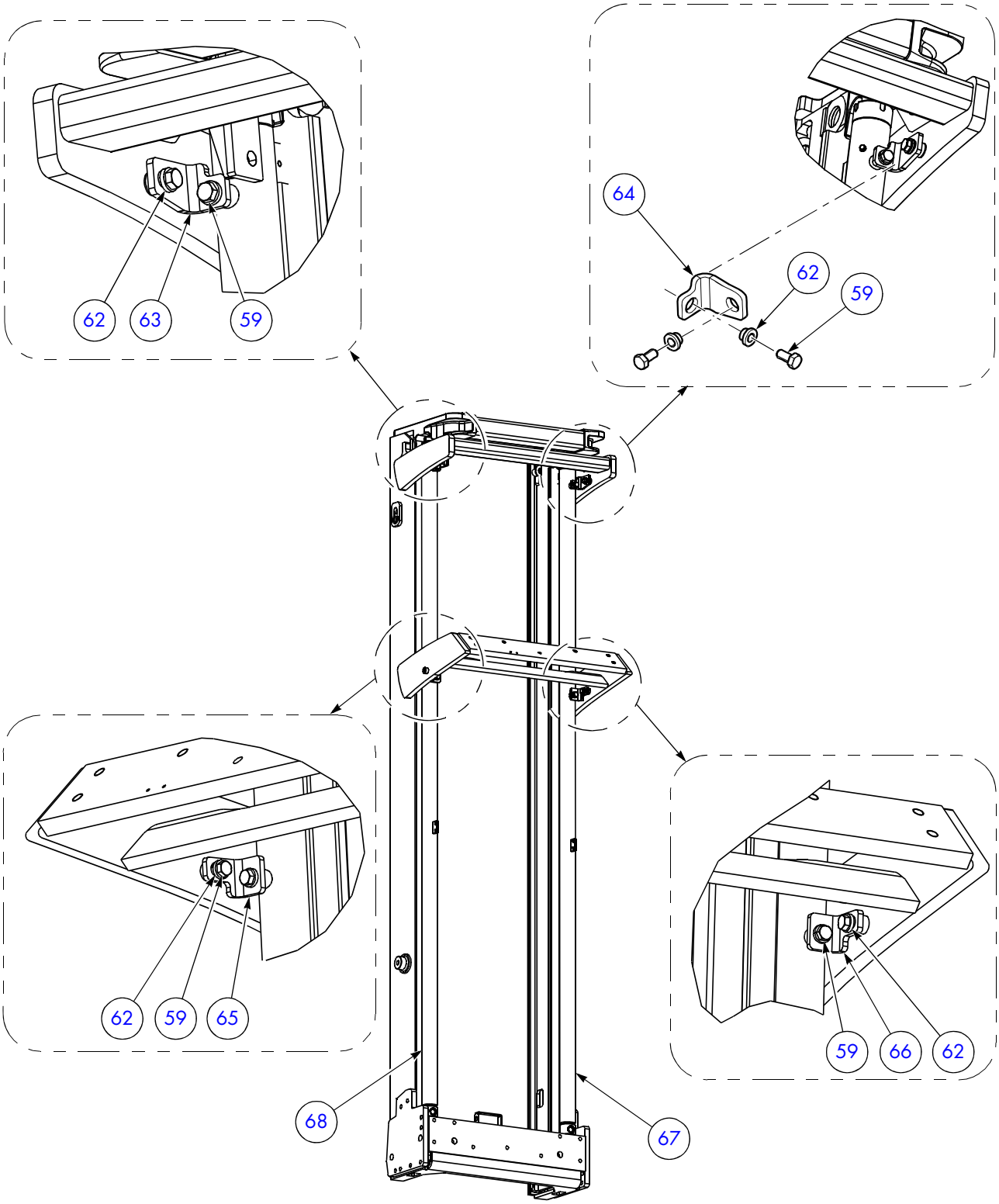


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Elevating Section, R35TT

Figure 7-3h: Elevating Section, R35TT



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List 7-3: Elevating Section, R35TT (Sheet 1 of 2)

FIGURE 7-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	8	449-015	Bearing, Mast Roller	R
3	6	449-025	Bearing, Mast Roller (Not Shown)	R
4	4	681-847	Link, Connecting	
5	2	760-054	Nut	
8	2	5-001-030	Screw	
9	4	5-002-046	Screw	
10	20	5-003-012	Screw	
11	16	5-003-013	Screw	
12	14	5-004-008	Screw	
13	2	5-004-013	Screw	
14	2	5-004-027	Screw	
15	2	5-005-005	Screw	
16	14	5-018-006	Washer, Flat	
17	6	7-714-116/030	Screw	
18	2	7-714-116/045	Screw	
19	AR	780-001-090	Shim (0.06 in.)	
20	AR	780-001-091	Shim (0.03 in.)	
21	2	828-005-178/002	Anchor, Chain Main Lift, Models 7400 and 7420	
22	2	1100471	Bumper, Mast	
23	2	1077503	Pulley, Sheave, Main Lift Chain	
24	16	1009950	Bow Pad, Inner Telescopic	
25	4	1081988	Spacer, Chain Sheave	
26	1	1012083	Block, Chain Anchor, Main Lift, Right-Hand	
27	2	1012089	Pin, Chain Anchor, Main Lift	
28	2	1012091	Retainer, Pin	
29	2	1012603	Plate, Kickback Block	
30	2	1012605	Pad, Kickback	
32	AR	1013257	Shim, Kickback Pad, Outer Telescopic	
34	1	1017413	Block, Chain Anchor, Main Lift, Left-Hand	
35	2	1071527	Disc, Shim Retainer, Outer Telescopic	
36	AR	1071526/002	Shim, Spacer, Outer Telescopic, Stop	
37	AR	1071526/001	Shim, Spacer, Outer Telescopic, Stop	
38	2	1086134	Shaft, Main Lift Chain Pulley	
39	2	1018793	Screw, Set	
40	6	1099859	Sleeve, Roller Stud	
41	12	1028969	Shim, Spacer, Bow Pad	
42	AR	1028983	Shim, Spacer, Bow Pad	
43	AR	1029412	Shim, Spacer, Kickback, Outer Telescopic	
44	4	1033489	Shim, Spacer, Bow Pad	
45	2	1033510	Shim, Mast Kickback	
46	AR	681-031/100	Chain, Lift (Box 100 ft.)	A

A= Chain Length = (OACH - 10.263) /0.75
Round to Closest Odd Pitch
Odd Pitch x 0.75 (2 Required)
B= Contact Technical Support
R= Recommended Spare

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List 7-3: Elevating Section, R35TT (Sheet 2 of 2)

FIGURE 7-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
47	8	1034673	Stud, Mast Bearing, Model 7400 R35TT (all)	
48	2	1064350	Guide, Kickback	
49	1	Ref.	Main Frame Weldment	B
50	1	Ref.	Telescopic Weldment, Inner	B
51	1	Ref.	Telescopic Weldment, Outer	B
54	AR	1068783/001	Plate, Shim	
55	AR	1068783/002	Plate, Shim	
57	2	5-001-027	Screw	
58	2	5-018-008	Washer, Flat	
59	8	7-710-012/025	Screw	
60	2	1008947	Spacer, Ram Cushion	
61	2	5-002-003	Screw	
62	8	1042113	Sleeve, Flanged	
63	1	1044156	Bracket, Cylinder Mounting, Main Lift, Left-Hand	
64	1	1044157	Bracket, Cylinder Mounting, Main Lift, Right-Hand	
65	1	1044160	Bracket, Overhead Guard Brace, Left-Hand	
66	1	1044161	Bracket, Overhead Guard Brace, Right-Hand	
67	1	Ref.	Cylinder, Main Lift, Right-Hand (See Figure 6-25.)	
68	1	Ref.	Cylinder, Main Lift, Left-Hand (See Figure 6-25.)	
70	2	1019848	Stop, Carriage	
71	AR	1047873	Shim (0.06 in. Thick)	
72	AR	1047874	Shim (0.03 in. Thick)	
73	2	5-002-012	Screw	

A= Chain Length = (OACH - 10.263) /0.75
Round to Closest Odd Pitch
Odd Pitch x 0.75 (2 Required)
B= Contact Technical Support
R= Recommended Spare

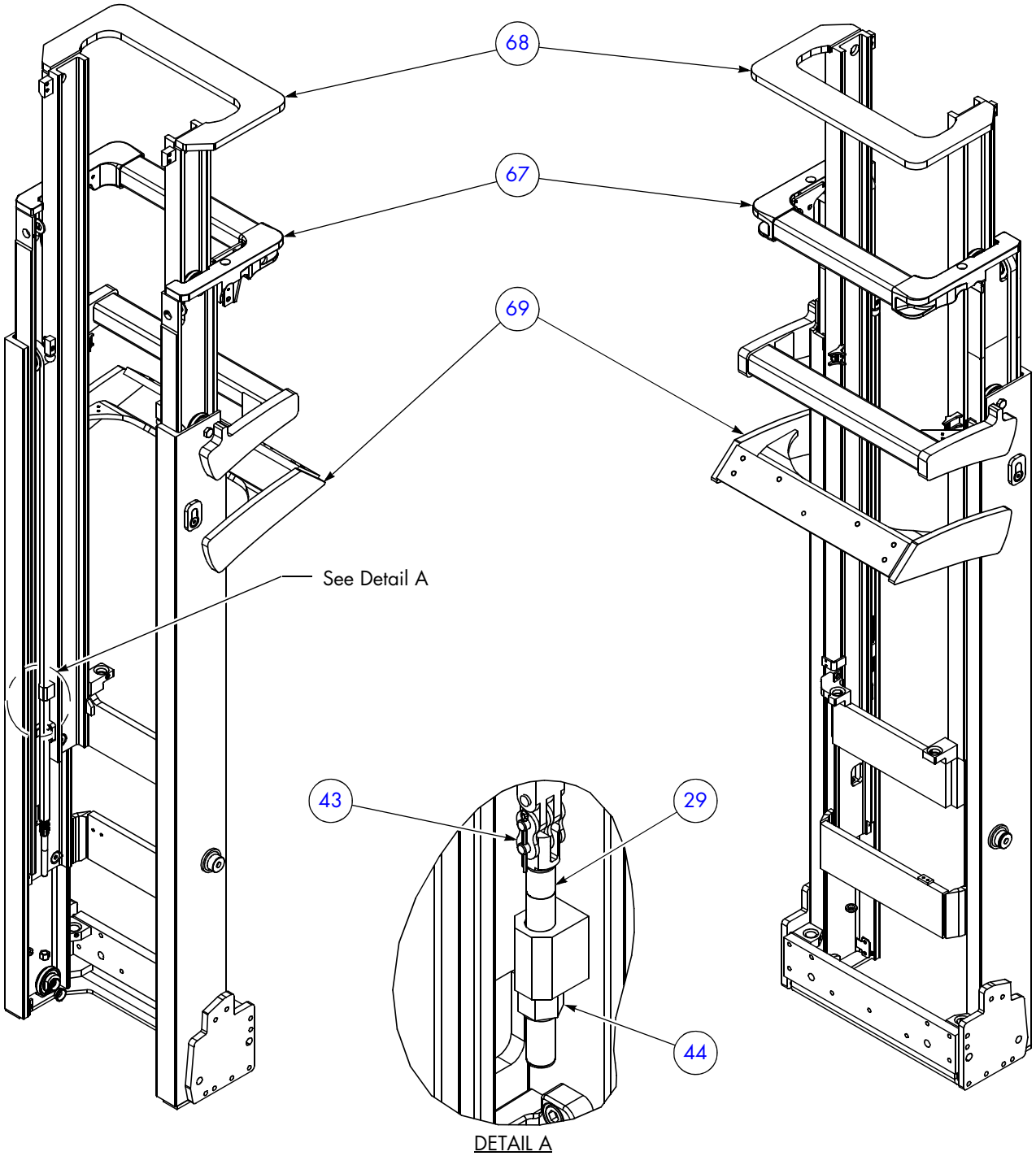
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Elevating Section, R45TT and DR32TT, Model 7400

Figure 7-4a: Elevating Section, R45TT and DR32TT, Model 7400

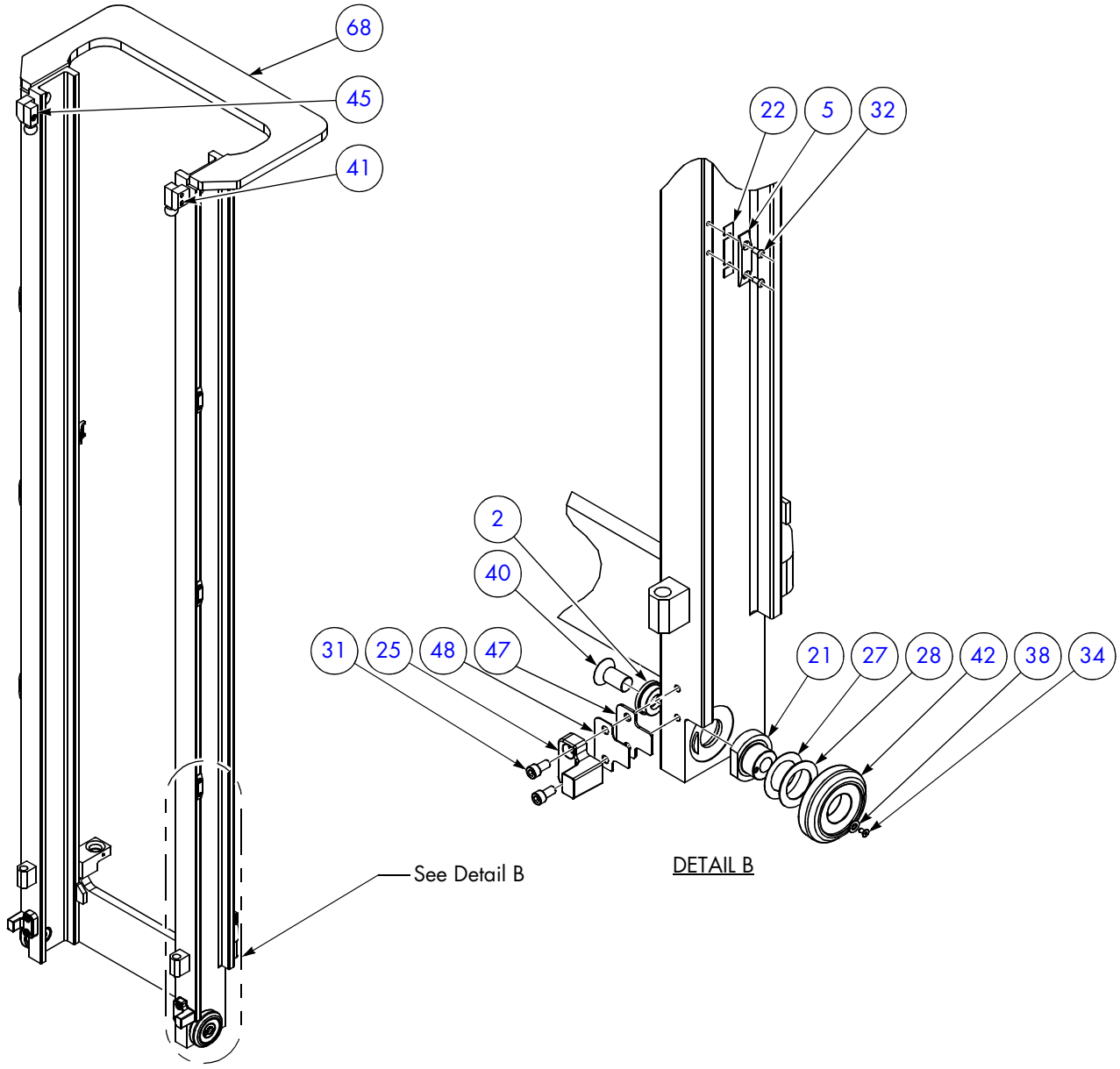


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Elevating Section, R45TT and DR32TT, Model 7400

Figure 7-4b: Elevating Section, R45TT and DR32TT, Model 7400

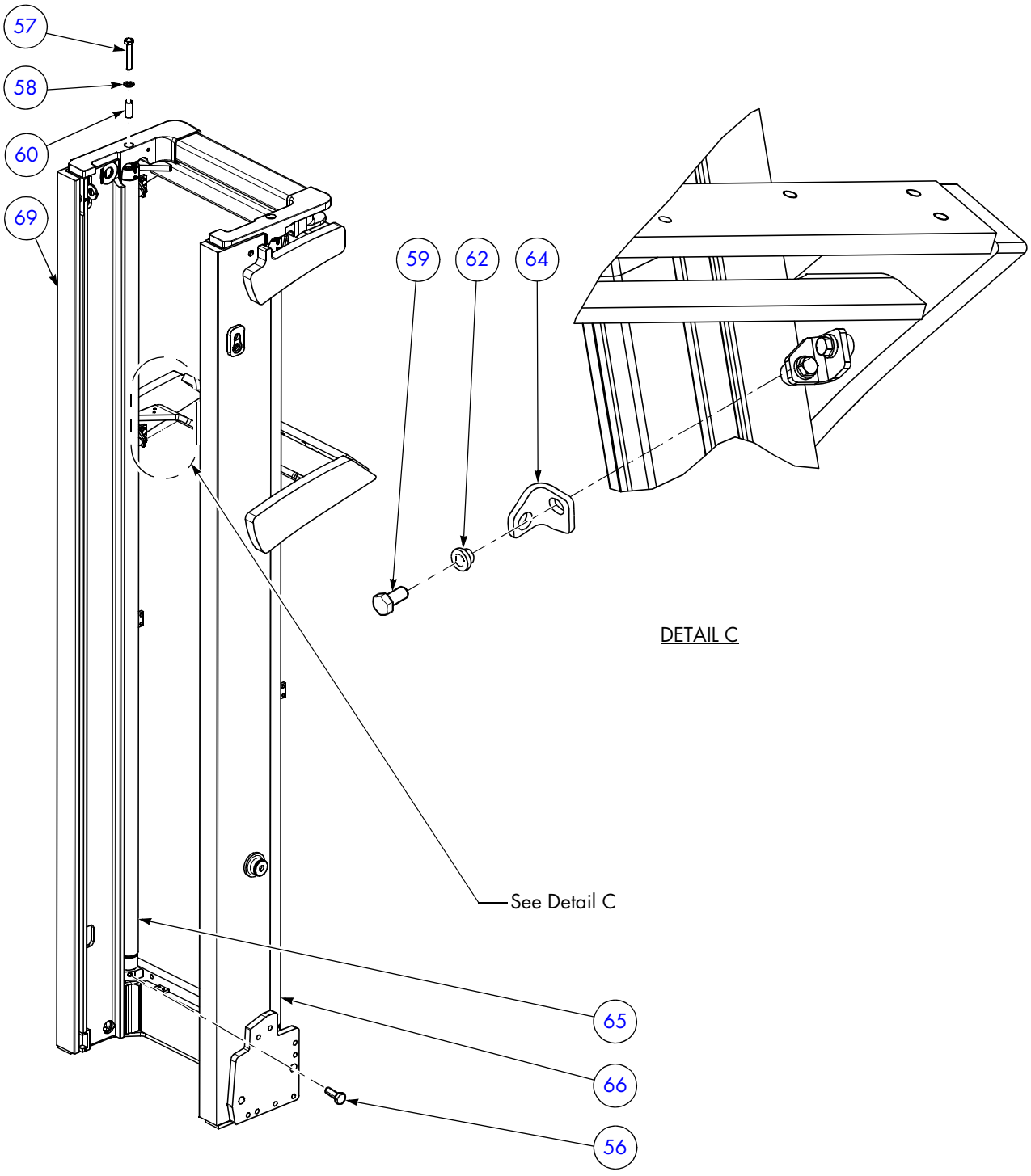


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Elevating Section, R45TT and DR32TT, Model 7400

Figure 7-4c: Elevating Section, R45TT and DR32TT, Model 7400

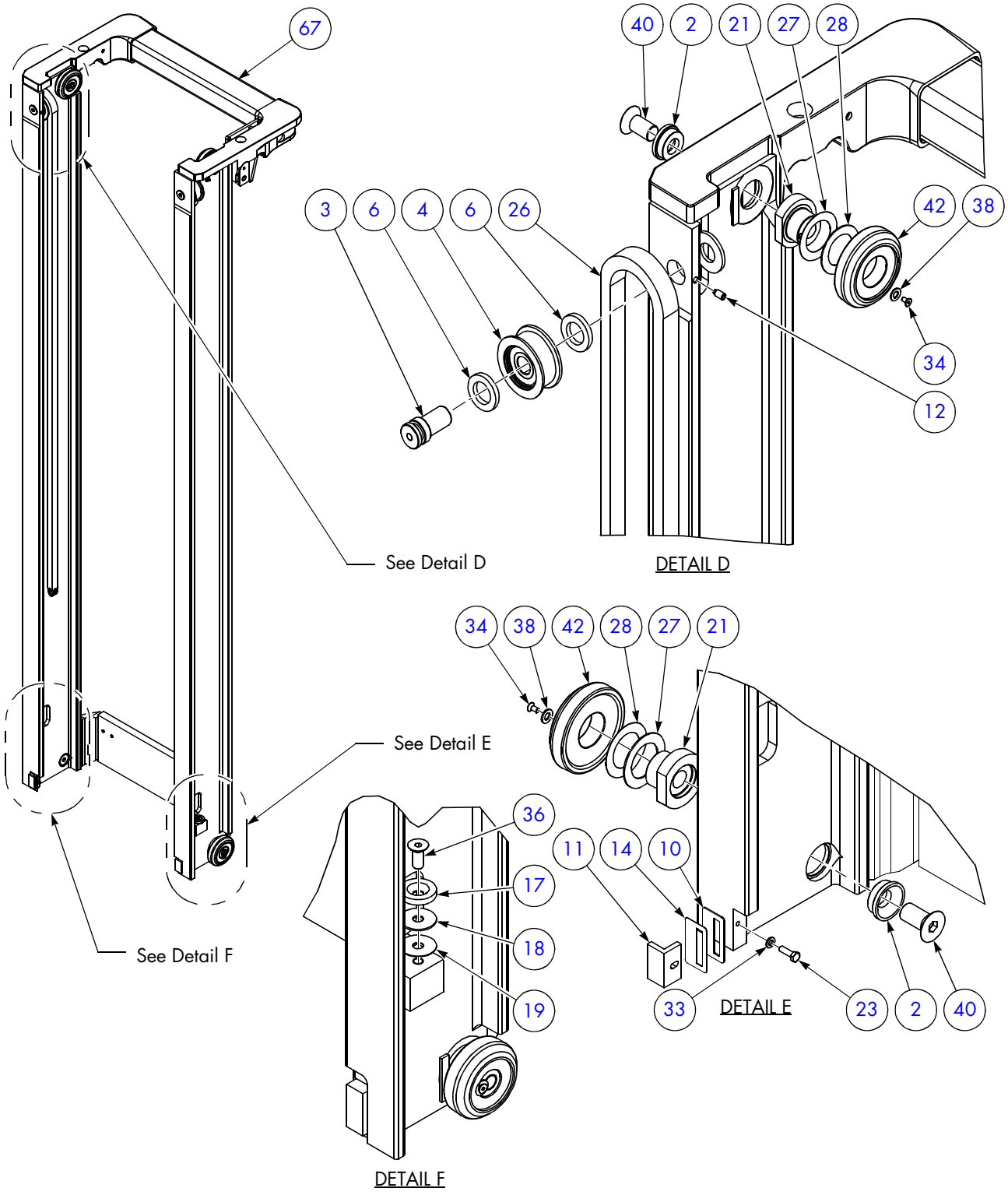


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Elevating Section, R45TT and DR32TT, Model 7400

Figure 7-4d: Elevating Section, R45TT and DR32TT, Model 7400

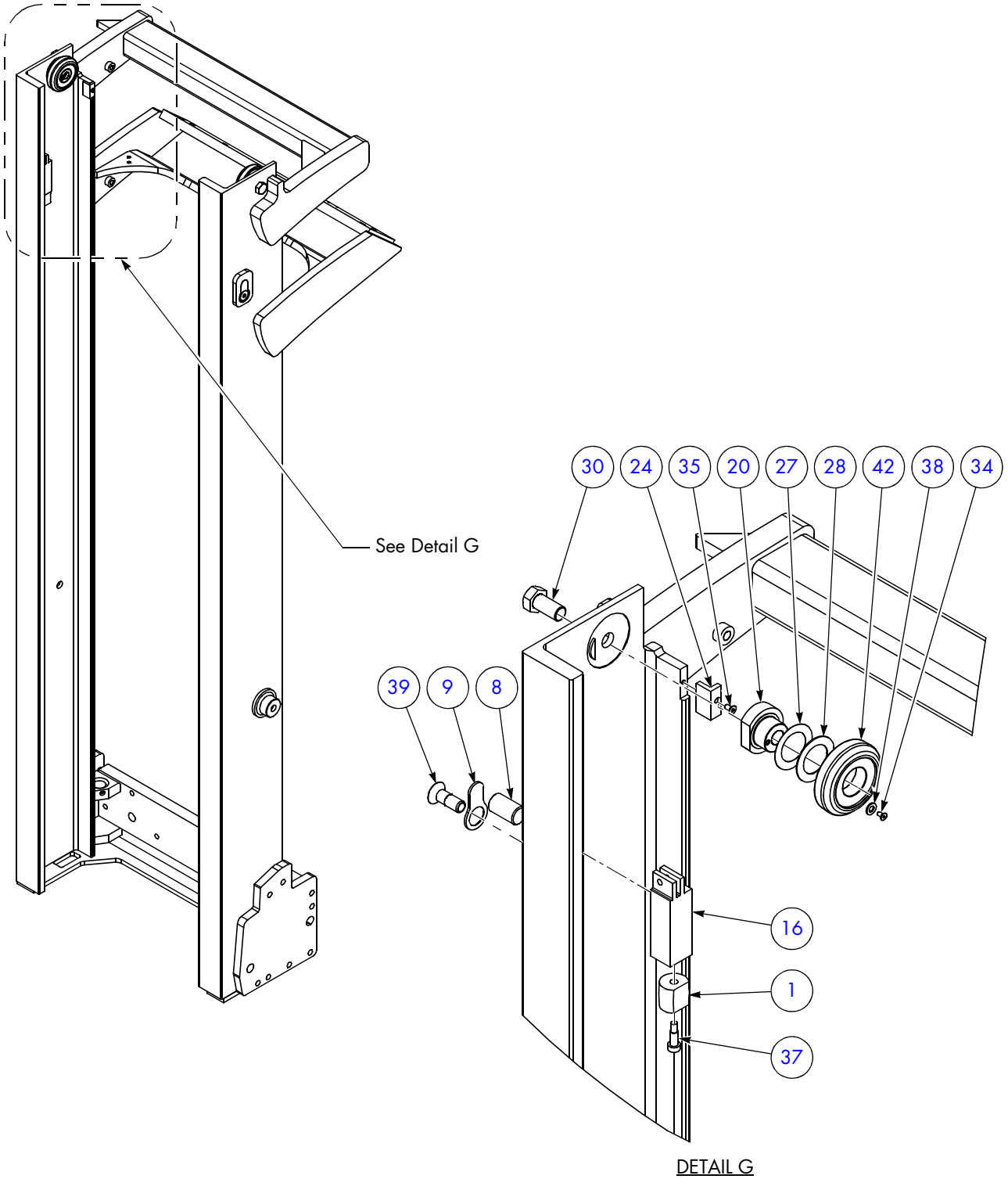


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Elevating Section, R45TT and DR32TT, Model 7400

Figure 7-4e: Elevating Section, R45TT and DR32TT, Model 7400



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List 7-4: Elevating Section, R45TT and DR32TT, Model 7400 (Sheet 1 of 2)

FIGURE 7-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	1100471	Bumper, Mast	R
2	6	1099469	Sleeve, Roller Stud	
3	2	1085919	Shaft, Main Lift Chain Pulley	
4	2	1077503	Pulley, Sheave, Main Lift Chain	
5	6 or 12	1009950	Pad, Bow, Inner Telescopic	R
6	4	1081988	Spacer, Chain Sheave	
7	1	1012083	Block, Chain Anchor, Main Lift, Right-Hand (Not Shown)	
8	2	1012089	Pin, Chain Anchor, Main Lift	
9	2	1012091	Retainer, Pin	
10	AR	1045211	Shim, Spacer	
11	2	1045212	Shim, Kickback	R
12	2	1012875	Screw, Set	
14	AR	1066633	Shim, Kickback Pad, Outer Telescopic	
16	1	1017413	Block, Chain Anchor, Main Lift, Left-Hand	
17	2	1071527	Disc, Shim Retainer, Outer Telescopic	
18	AR	1071526/002	Shim, Spacer Outer Telescopic Stop	
19	AR	1071526/001	Shim, Spacer Outer Telescopic Stop	
20	2	1020601	Stud, Mast Bearing, Main Frame, Top	
21	8	1020609	Stud, Mast Bearing, Outer Telescopic, Top and Inner Telescopic, Bottom	
22	AR	1028983	Shim, Spacer, Bow Pad	
23	2	5-001-002	Screw	
24	2	1033510	Shim, Mast Kickback	
25	2	1064350	Guide, Kickback	
26	AR	681-031/100	Chain, Lift (Box 100 ft.)	A
27	AR	623-019-000	Shim (0.062 in.)	
28	AR	623-020-000	Shim (0.0149 in.)	
29	2	828-005-178/002	Anchor, Chain	
30	2	5-001-034	Screw	
31	4	5-002-046	Screw	
32	12 or 24	5-003-011	Screw	
33	2	5-018-005	Washer, Flat	
34	8	5-004-008	Screw	
35	2	5-004-013	Screw	
36	3	5-004-027	Screw	
37	2	5-005-005	Screw, Shoulder	
38	8	5-018-006	Washer, Flat	
39	2	7-714-116/045	Screw	
40	6	7-714-120/040	Screw	
41	2	1079687	Stop, Carriage	

A= Chain Length = (OACH – 9.47) /0.75,
Round to Closest Odd Pitch,
Odd Pitch x 0.75 (2 Required)
B= Contact Technical Support
R= Recommended Spare

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List 7-4: Elevating Section, R45TT and DR32TT, Model 7400 (Sheet 2 of 2)

FIGURE 7-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
42	14	449-032	Bearing, Mast Roller	R
43	4	681-847	Link, Connecting	
44	2	760-054	Nut	
45	2	5-002-012	Screw	
47	AR	1068783/001	Plate, Shim	
48	AR	1068783/002	Plate, Shim	
56	2	5-001-003	Screw	
57	2	5-001-027	Screw	
58	2	5-018-008	Washer, Flat	
59	8	7-710-012/025	Screw	
60	2	1008947	Spacer, Ram Cushion	
62	8	1042113	Sleeve, Flanged	
63	1	1042529	Bracket, Cylinder Mounting, Main Lift, Left-Hand (Not Shown)	
64	1	1042530	Bracket, Cylinder Mounting, Main Lift, Right-Hand	
65	1	Ref.	Cylinder, Main Lift, Right-Hand (See Figure 6-25.)	
66	1	Ref.	Cylinder, Main Lift, Left-Hand (See Figure 6-25.)	
67	1	Ref.	Telescopic Weldment, Outer	B
68	1	Ref.	Telescopic Weldment, Inner	B
69	1	Ref.	Main Frame Weldment	B

A= Chain Length = (OACH – 9.47) /0.75,
Round to Closest Odd Pitch,
Odd Pitch x 0.75 (2 Required)
B= Contact Technical Support
R= Recommended Spare

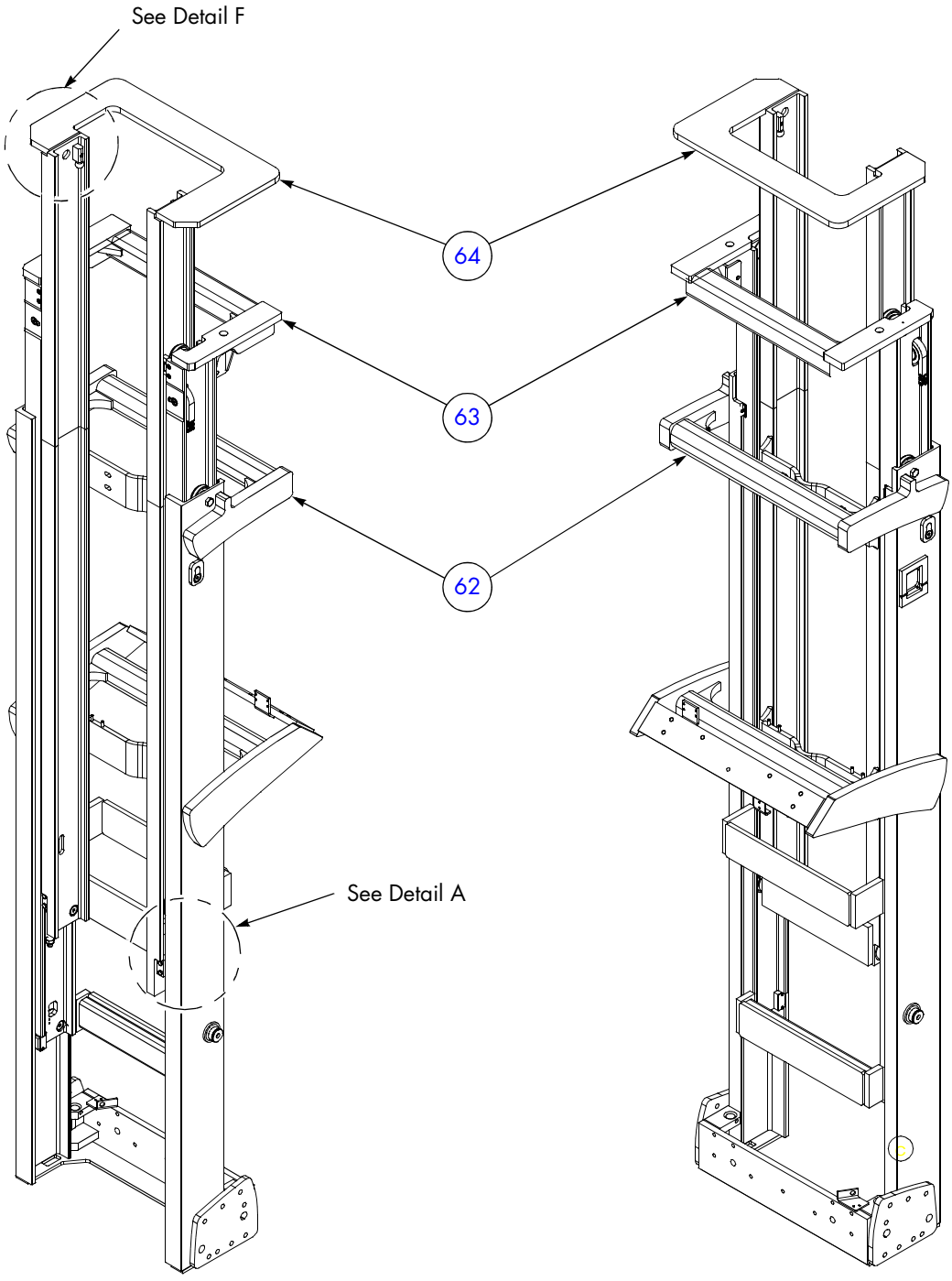
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Elevating Section, R45TT and DR32TT, Model 7420

Figure 7-5a: Elevating Section, R45TT and DR32TT, Model 7420

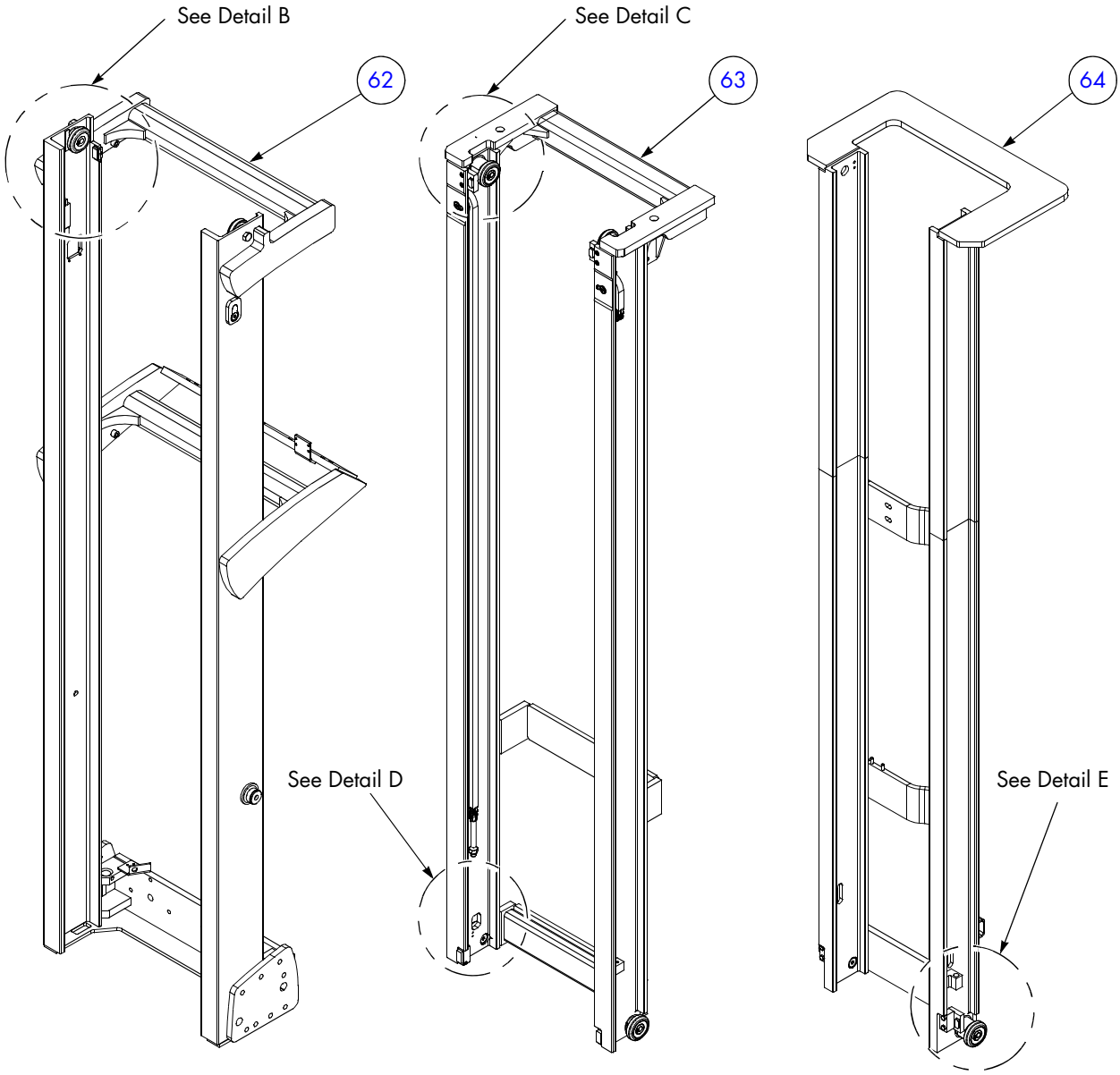


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Elevating Section, R45TT and DR32TT, Model 7420

Figure 7-5b: Elevating Section, R45TT and DR32TT, Model 7420

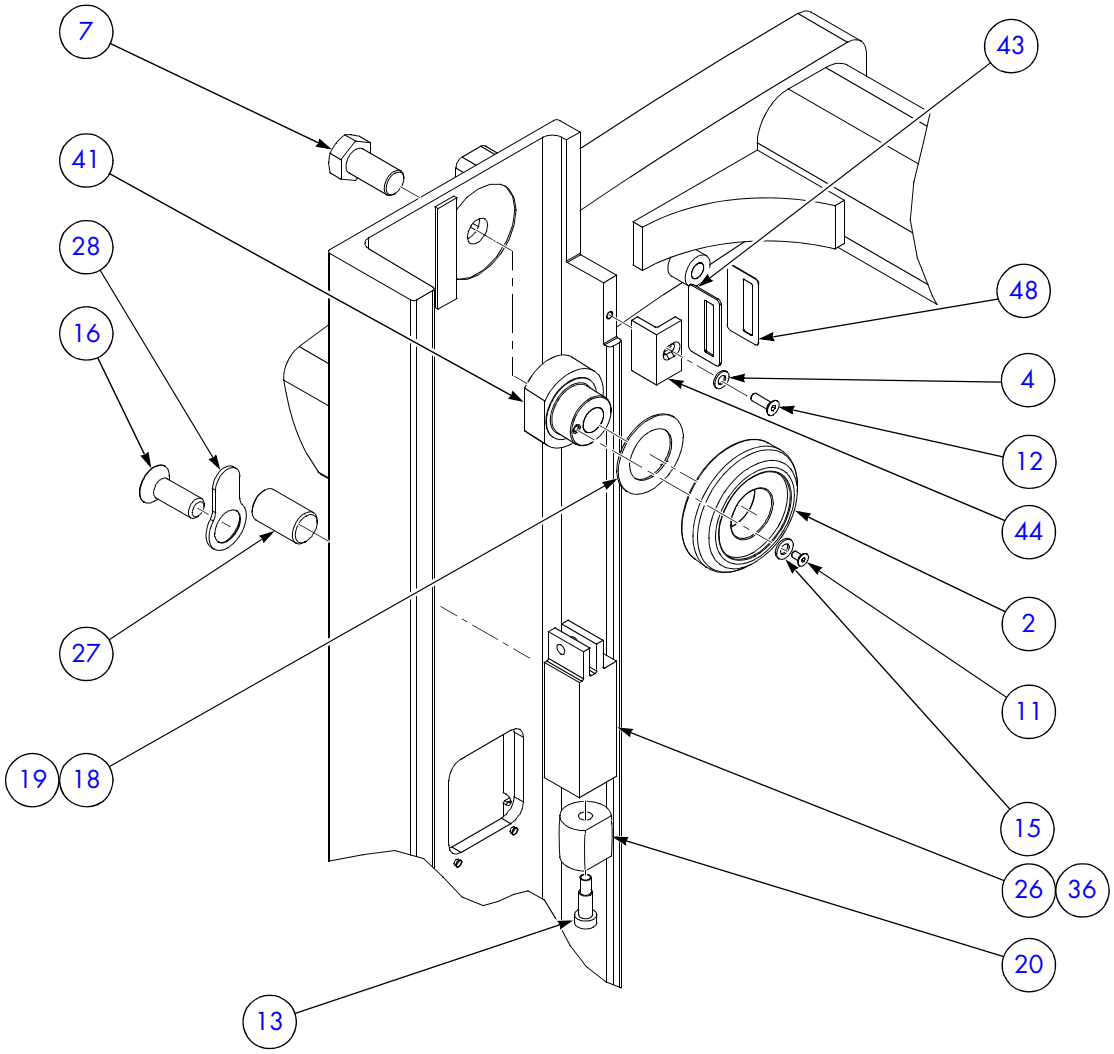


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Elevating Section, R45TT and DR32TT, Model 7420

Figure 7-5c: Elevating Section, R45TT and DR32TT, Model 7420



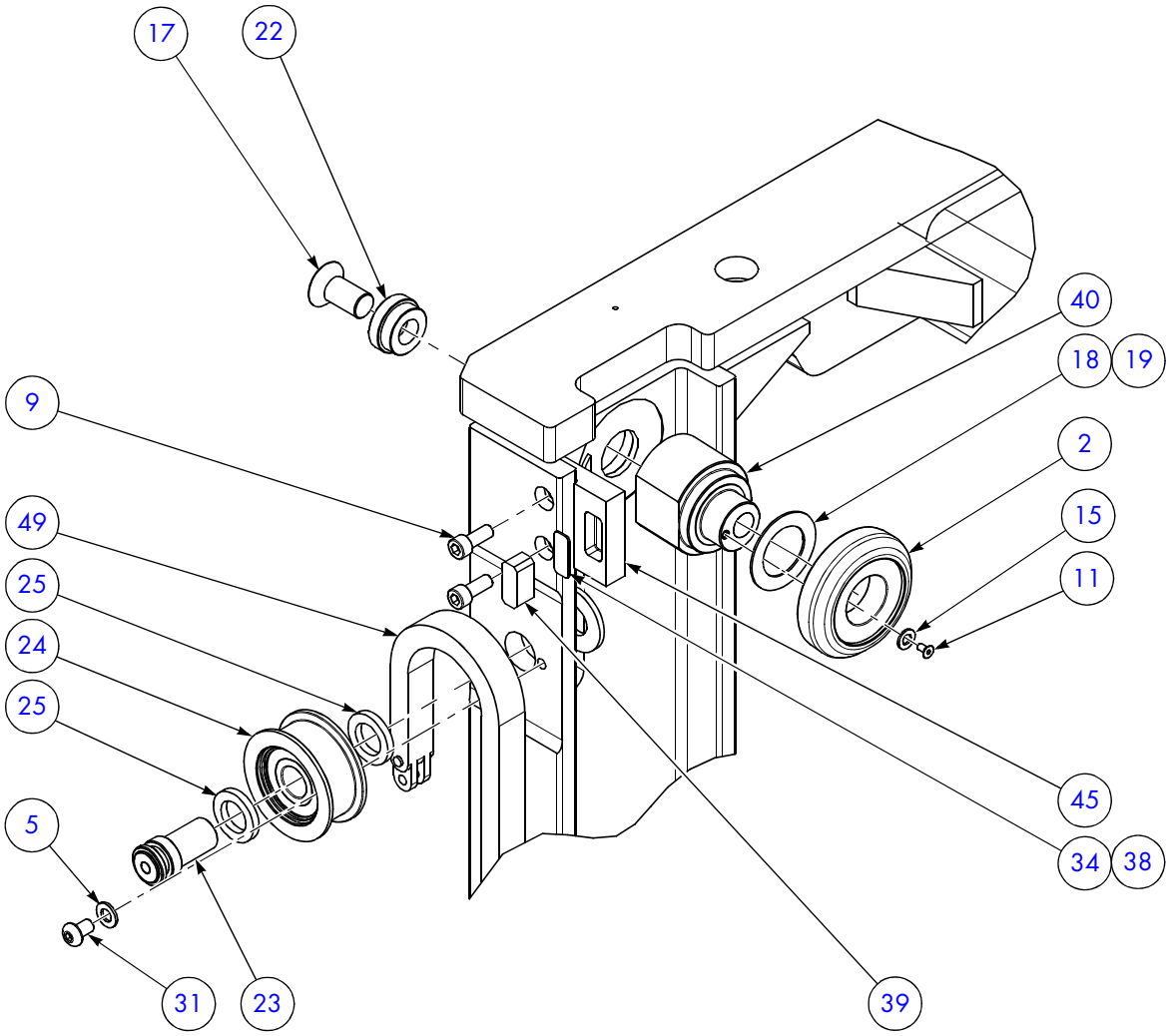
DETAIL B

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Elevating Section, R45TT and DR32TT, Model 7420

Figure 7-5d: Elevating Section, R45TT and DR32TT, Model 7420



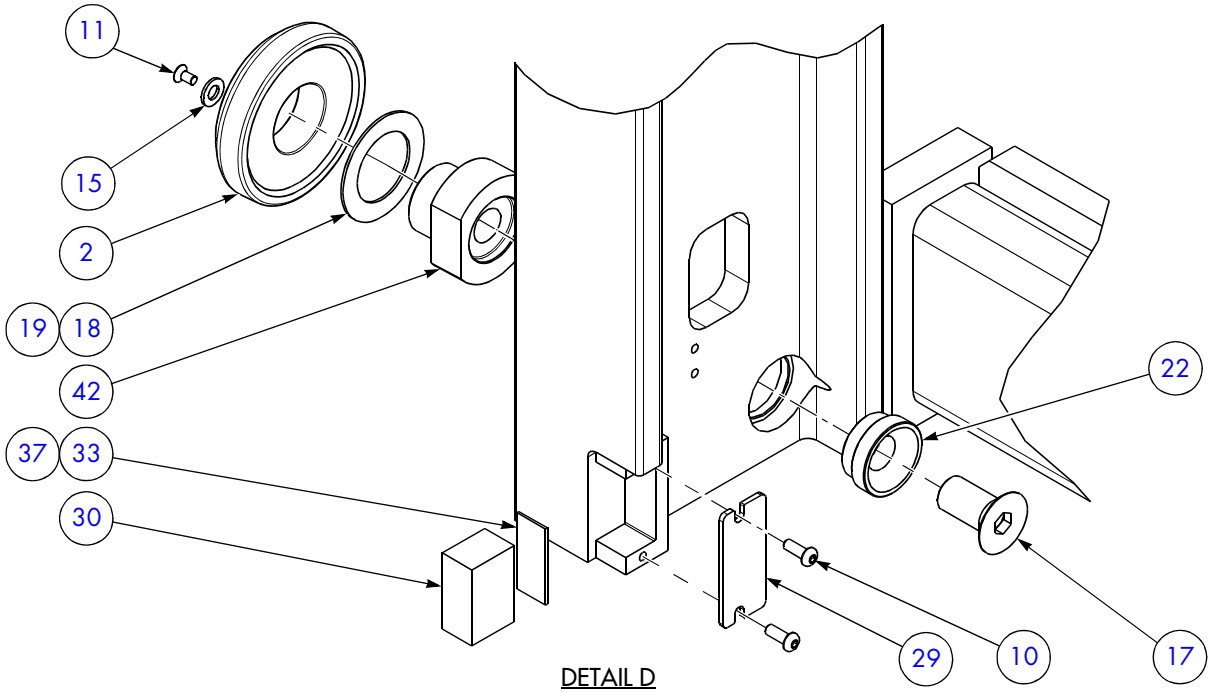
DETAIL C

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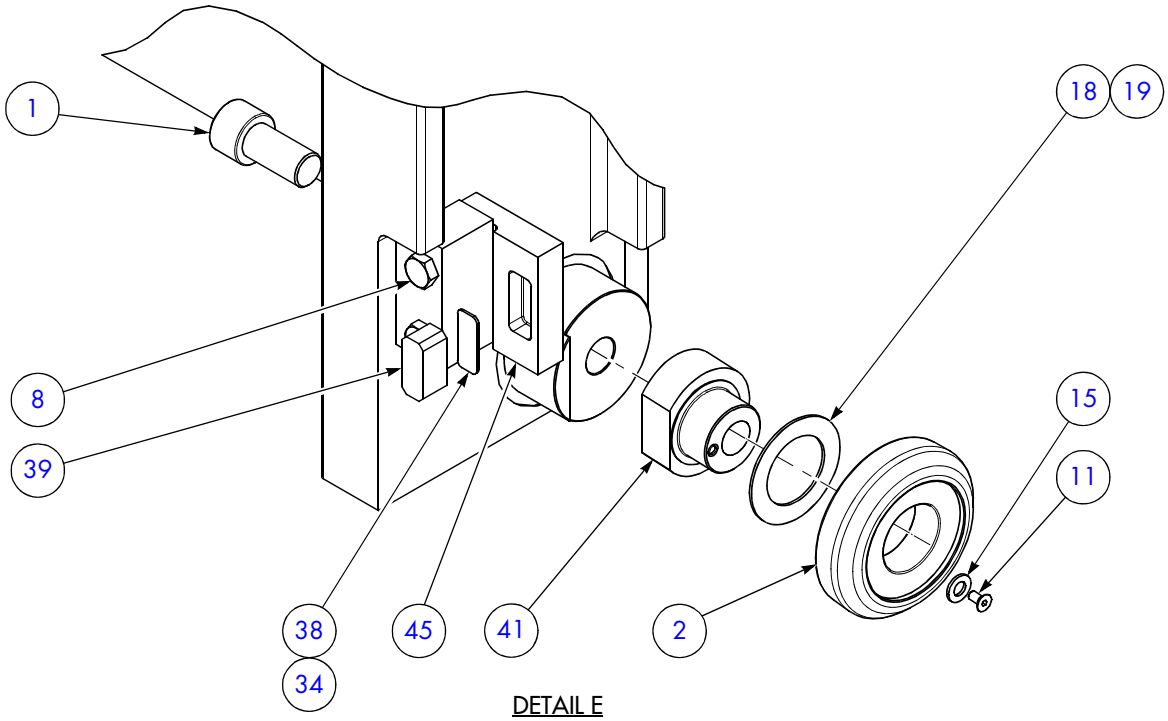
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Elevating Section, R45TT and DR32TT, Model 7420

Figure 7-5e: Elevating Section, R45TT and DR32TT, Model 7420



DETAIL D



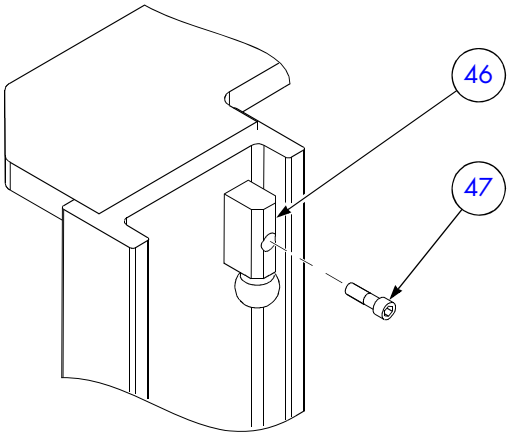
DETAIL E

1100054_B8 1100054_B7 SHT 5 OF 7

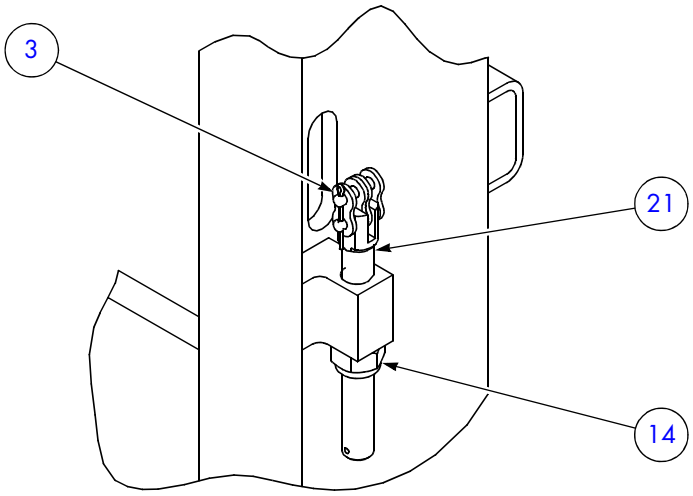
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Elevating Section, R45TT and DR32TT, Model 7420

Figure 7-5f: Elevating Section, R45TT and DR32TT, Model 7420



DETAIL F



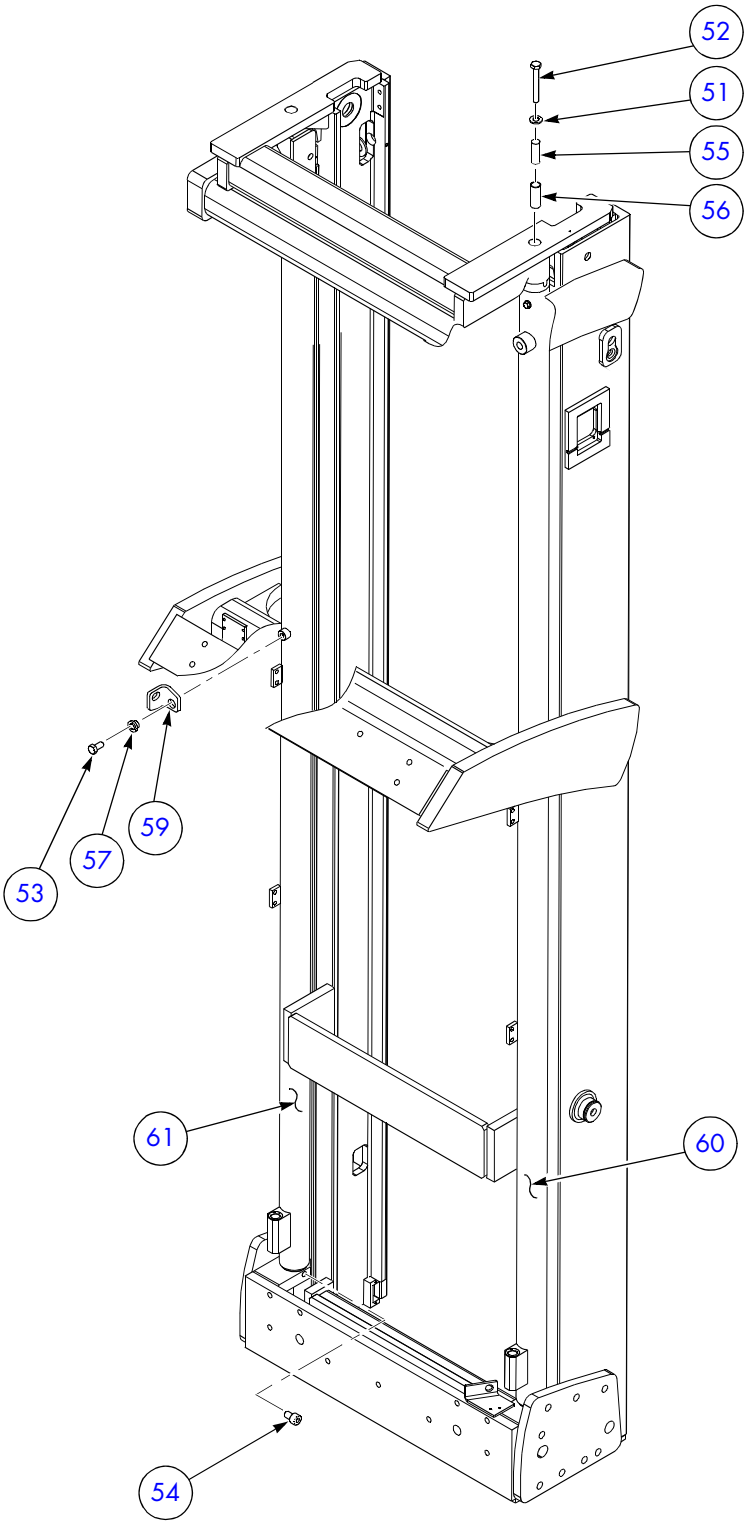
DETAIL A

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Elevating Section, R45TT and DR32TT, Model 7420

Figure 7-5g: Elevating Section, R45TT and DR32TT, Model 7420



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List 7-5: Elevating Section, R45TT and DR32TT, Model 7420 (Sheet 1 of 2)

FIGURE 7-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	5-002-024	Screw	
2	14	449-032	Bearing, Mast Roller	R
3	4	681-847	Link, Connecting	
4	2	5-018-005	Washer, Flat	
5	2	5-018-007	Washer, Flat	
7	2	5-001-034	Screw	
8	4	5-001-020	Screw	
9	4	5-002-012	Screw	
10	4	5-003-012	Screw	
11	8	5-004-008	Screw	
12	2	5-001-003	Screw	
13	2	5-005-005	Screw, Shoulder	
14	2	5-016-009	Nut, Nylon Locking	
15	8	5-018-006	Washer, Flat	
16	2	7-714-116/045	Screw	
17	6	7-714-120/040	Screw	
18	AR	623-019-000	Shim (0.062 in.)	
19	AR	623-020-000	Shim (0.0149 in.)	
20	2	1100471	Bumper, Mast	R
21	2	1004906/002	Chain Anchor, Main Lift, Model 7420	
22	4	1098987	Sleeve, Roller Stud	
23	2	1086604	Shaft, Main Lift Chain Pulley	
24	2	1077503	Pulley, Sheave, Main Lift Chain	
25	4	1081988	Spacer, Chain Sheave	
26	1	1012083	Block, Chain Anchor, Main Lift, Right-Hand	
27	2	1012089	Pin, Chain Anchor, Main Lift	
28	2	1012091	Retainer, Pin	
29	2	1012603	Plate, Kickback Block	
30	2	1012605	Pad, Kickback	R
31	2	5-003-021	Screw, Soc Button	
33	AR	1013257	Shim, Kickback Pad, Outer Telescopic	
34	AR	1013258	Shim, Kickback Pad, Inner Telescopic	
36	1	1017413	Block, Chain Anchor, Main Lift, Left-Hand	
37	AR	1029412	Shim, Spacer, Kickback, Outer Telescopic	
38	AR	1029413	Shim, Spacer, Kickback, Inner Telescopic	
39	4	1036671	Pad, Kickback	
40	2	1037479	Stud, Mast Bearing, Outer Telescopic, Top and Inner Telescopic, Bottom, Model 7420	
41	4	1044996	Stud, Mast Bearing, Main Frame, Top, Model 7420	
42	2	1044997	Stud, Mast Bearing, Outer Telescopic, Bottom, Model 7420	
43	AR	1045211	Shim, Spacer	

A= Chain Length = (OACH - 19.25) /0.75
Round to Closest Odd Pitch
Odd Pitch x 0.75 (2 Required)
B= Contact Technical Support
R= Recommended Spare

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List 7-5: Elevating Section, R45TT and DR32TT, Model 7420 (Sheet 2 of 2)

FIGURE 7-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
44	2	1045212	Shim, Mast Kickback	
45	4	1051029	Kickback, Stop Block	
46	2	828-000-985/001	Stop Assembly (See Figure 7-57.)	
47	2	714-143	Screw	
48	AR	1066633	Shim, Spacer	
49	AR	681-031/100	Chain, Lift (Box 100 ft.)	A
51	2	771-025	Washer, Flat	
52	2	5-001-028	Screw	
53	8	7-710-012/025	Screw	
54	2	1012481	Screw	
55	2	1036610/002	Sleeve, Ram Spacer, Inner	
56	2	1036612/002	Sleeve, Ram Spacer, Outer	
57	8	1042113	Sleeve, Flanged	
58	2	1042529	Bracket, Cylinder Mounting, Main Lift, Left-Hand (Not Shown)	
59	2	1042530	Bracket, Cylinder Mounting, Main Lift, Right-Hand	
60	1	Ref.	Cylinder, Main Lift, Right-Hand (See Figure 6-26.)	
61	1	Ref.	Cylinder, Main Lift, Left-Hand (See Figure 6-26.)	
62	1	Ref.	Main Frame Weldment	B
63	1	Ref.	Telescopic Weldment, Outer	B
64	1	Ref.	Telescopic Weldment, Inner	B

A= Chain Length = (OACH - 19.25) /0.75
Round to Closest Odd Pitch
Odd Pitch x 0.75 (2 Required)
B= Contact Technical Support
R= Recommended Spare

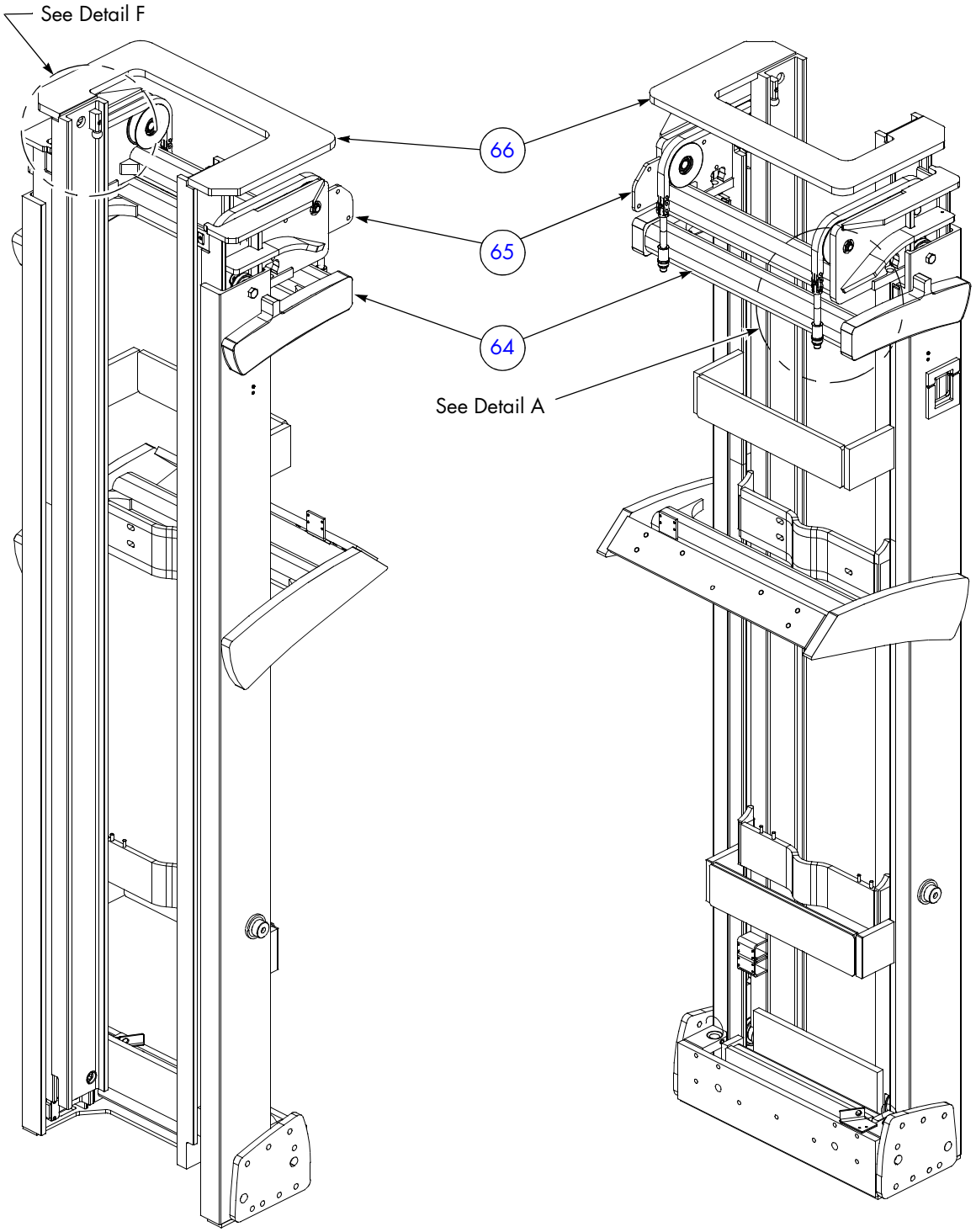
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Elevating Section, R45TT and DR32TT, Model 7440

Figure 7-6a: Elevating Section, R45TT and DR32TT, Model 7440

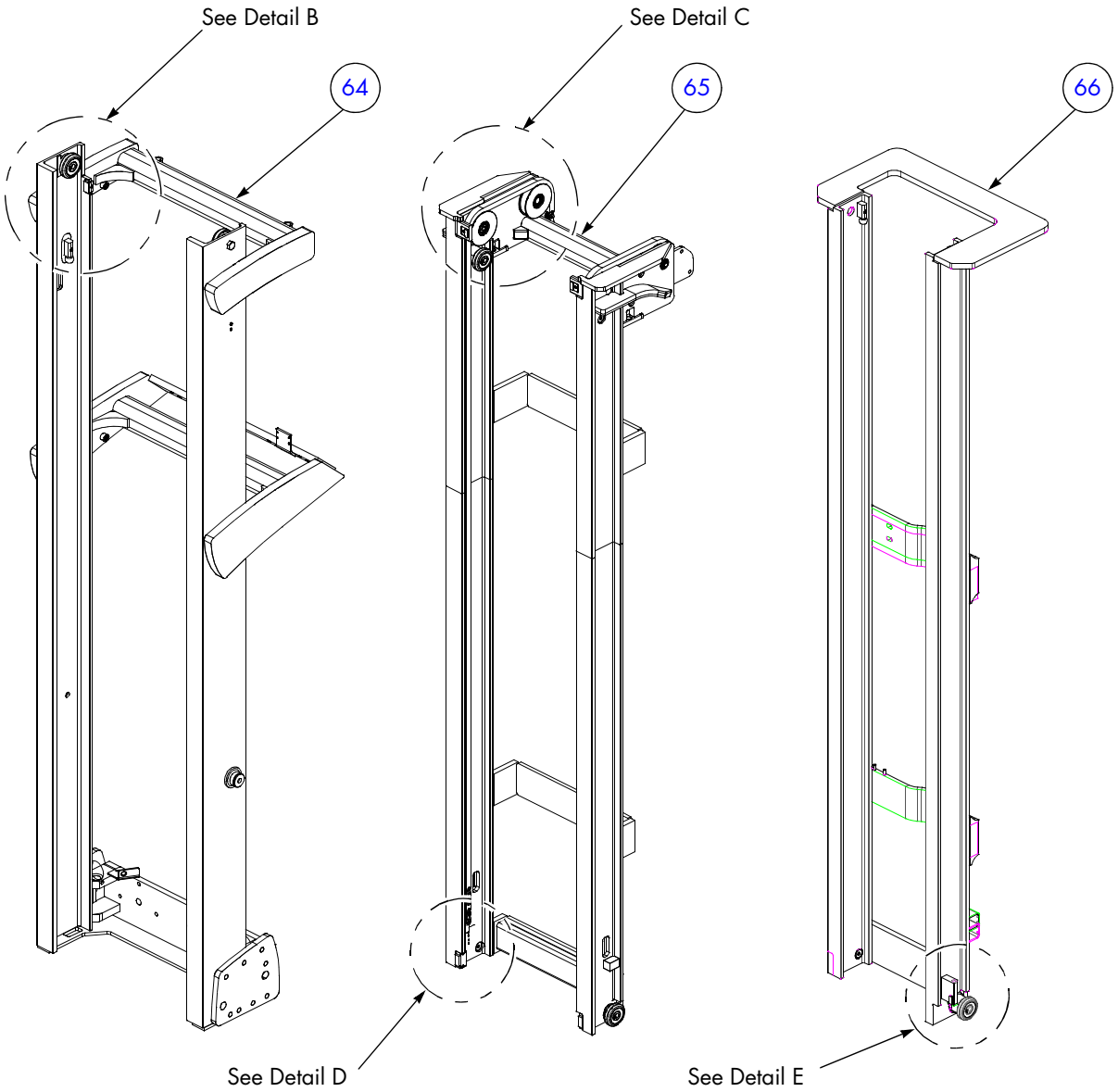


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Elevating Section, R45TT and DR32TT, Model 7440

Figure 7-6b: Elevating Section, R45TT and DR32TT, Model 7440

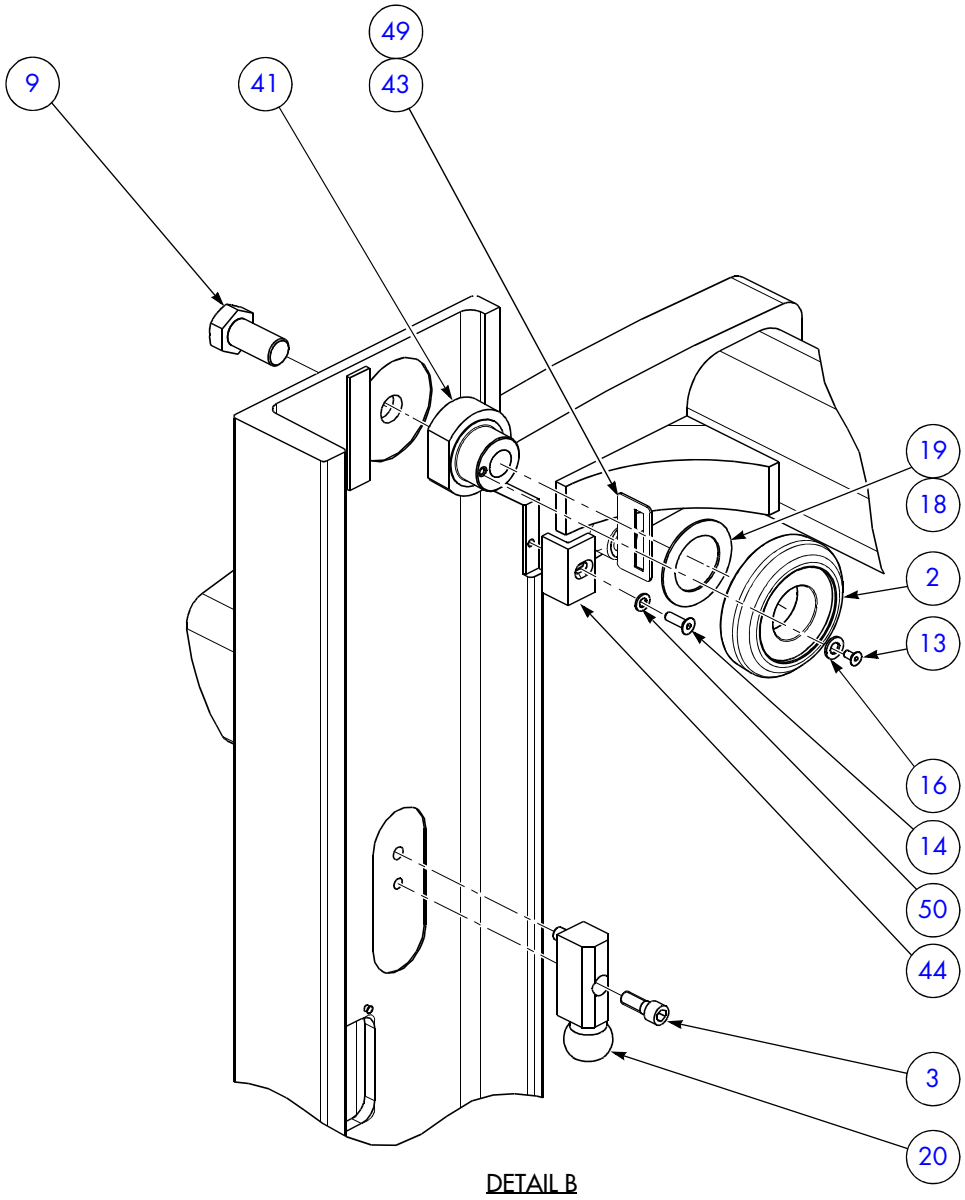


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Elevating Section, R45TT and DR32TT, Model 7440

Figure 7-6c: Elevating Section, R45TT and DR32TT, Model 7440

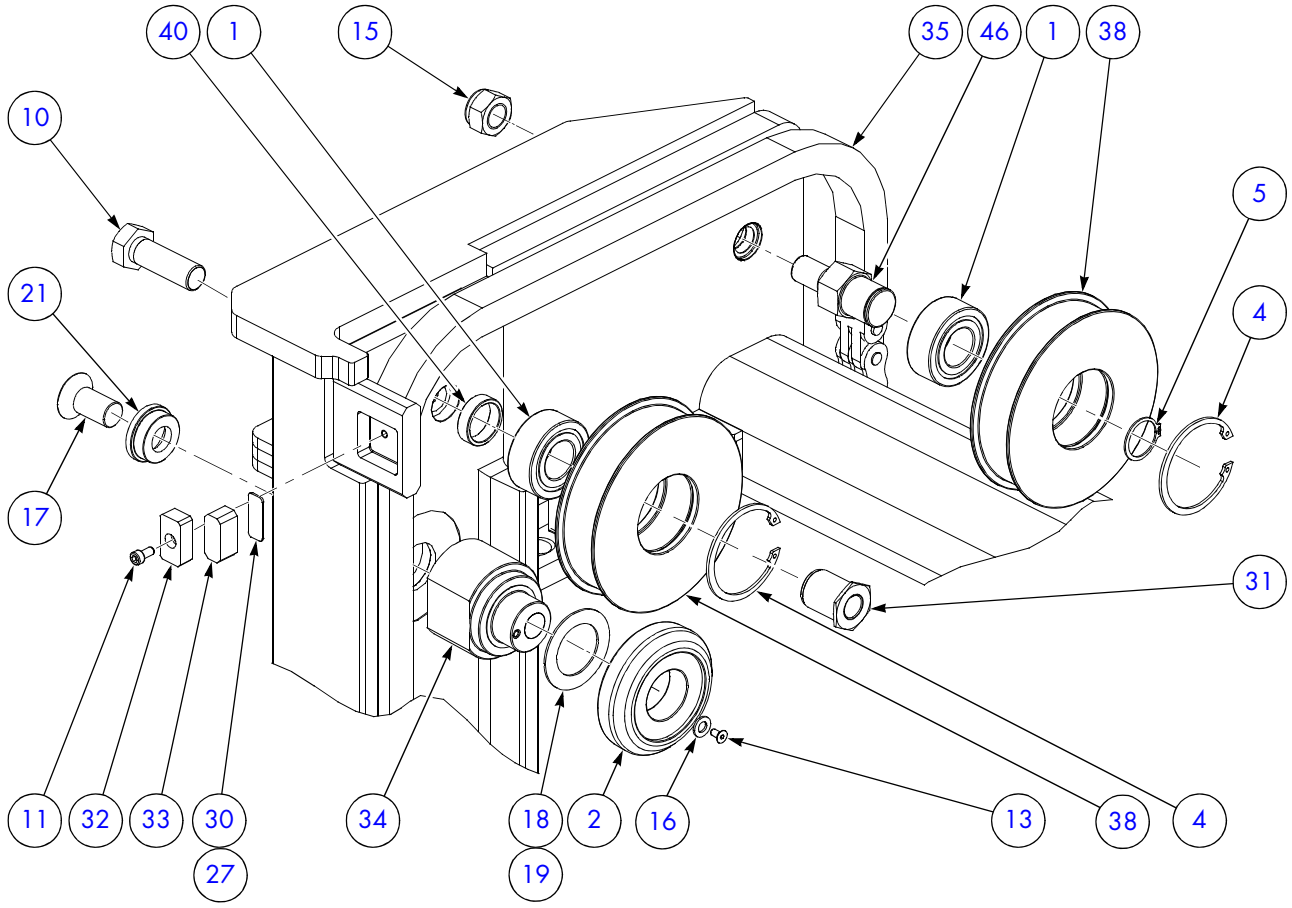


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Elevating Section, R45TT and DR32TT, Model 7440

Figure 7-6d: Elevating Section, R45TT and DR32TT, Model 7440



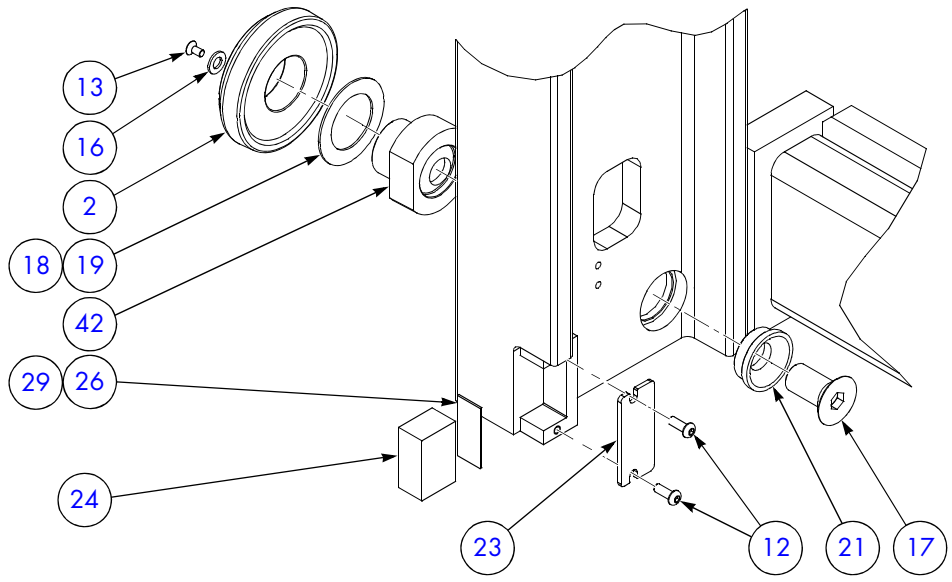
DETAIL C

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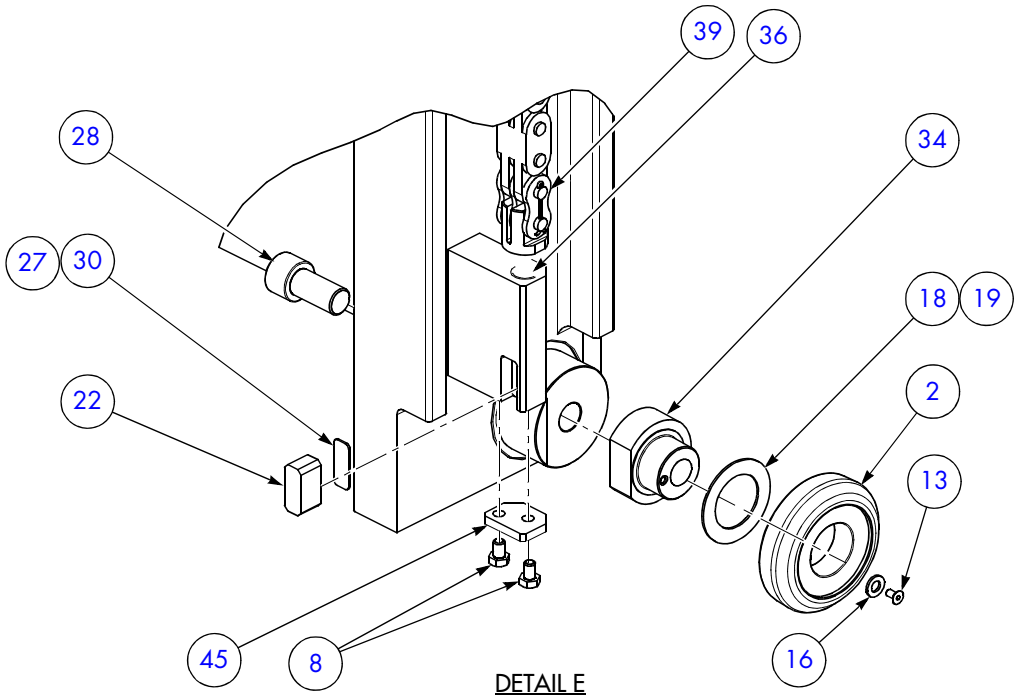
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Elevating Section, R45TT and DR32TT, Model 7440

Figure 7-6e: Elevating Section, R45TT and DR32TT, Model 7440



DETAIL D



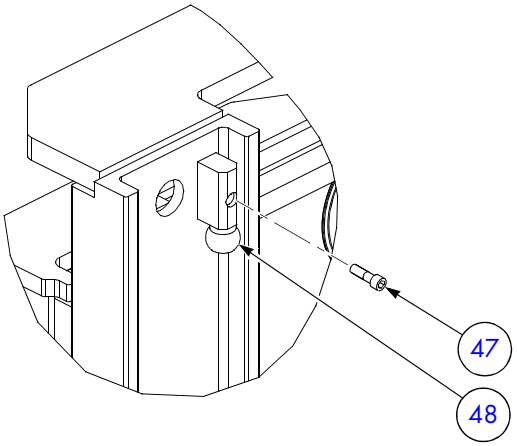
DETAIL E

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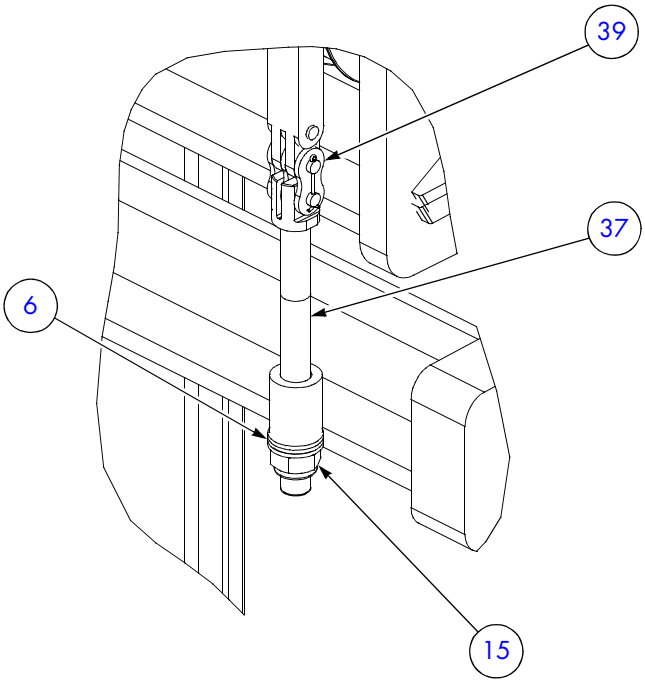
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Elevating Section, R45TT and DR32TT, Model 7440

Figure 7-6f: Elevating Section, R45TT and DR32TT, Model 7440



DETAIL F



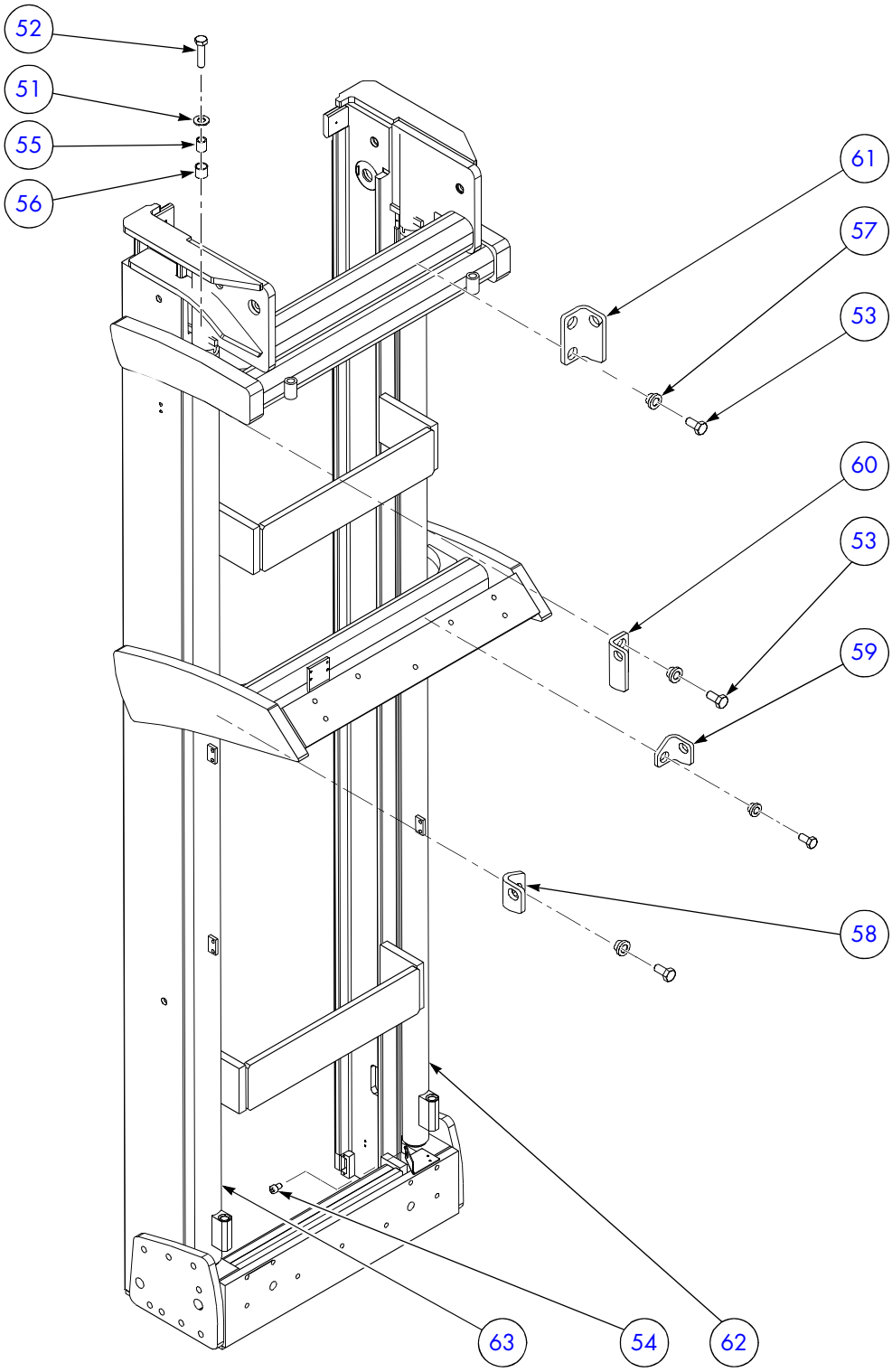
DETAIL A

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Elevating Section, R45TT and DR32TT, Model 7440

Figure 7-6g: Elevating Section, R45TT and DR32TT, Model 7440



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List 7-6: Elevating Section, R45TT and DR32TT, Model 7440 (Sheet 1 of 2)

FIGURE 7-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	443-031	Bearing, Chain Pulley Sheave	R
2	14	449-032	Bearing, Mast Roller	R
3	2	714-138	Screw	
4	4	810-052	Ring, Snap	
5	2	810-136	Ring, Snap	
6	6	5-018-010	Washer, Flat	
8	4	5-001-006	Screw	
9	2	5-001-034	Screw	
10	2	5-001-042	Screw	
11	2	5-002-001	Screw	
12	4	5-003-012	Screw	
13	8	5-004-008	Screw	
14	2	5-001-003	Screw	
15	2	5-016-009	Nut, Nylon Locking	
16	8	5-018-006	Washer, Flat	
17	4	7-714-120/040	Screw	
18	AR	623-019-000	Shim (0.062 in.)	
19	AR	623-020-000	Shim (0.0149 in.)	
20	2	828-000-985/001	Stop Assembly (See Figure 7-57.)	
21	4	1098987	Sleeve, Roller Stud	
22	2	1009451	Pad, Kickback	
23	2	1012603	Plate, Kickback Block	
24	2	1012605	Pad, Kickback	R
26	AR	1013257	Shim, Kickback Pad, Outer Telescopic	
27	AR	1013258	Shim, Kickback Pad, Inner Telescopic	
28	2	5-002-024	Screw	
29	AR	1029412	Shim, Spacer, Kickback, Outer Telescopic	
30	AR	1029413	Shim, Spacer, Kickback, Inner Telescopic	
31	2	1032847	Stud, Chain Sheave	
32	2	1036665	Spacer, Kickback Pad	
33	2	1036671	Pad, Kickback	
34	2	1037479	Stud, Mast Bearing, Outer Telescopic, Top and Inner Telescopic, Bottom, Model 7440	
35	AR	681-040/100	Chain, Lift (Box 100 ft.)	A
36	2	1038906/001	Chain Anchor, Main Lift, Model 7440 (3.00 in. length, 1.50 in. thread)	
37	2	1038906/003	Chain Anchor, Main Lift, Model 7440 (9.50 in. length, 5.88 in. thread)	
38	4	1038921	Sheave, Lift Chain	
39	4	1039062	Link, Connecting	
40	2	1039559	Shim, Spacer	
41	2	1044996	Stud, Mast Bearing, Main Frame, Top, Model 7440	
42	4	1044997	Stud, Mast Bearing, Outer Telescopic, Bottom, Model 7440	

A= Chain Length = (OACH + 9)
B= Contact Technical Support
R= Recommended Spare

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List 7-6: Elevating Section, R45TT and DR32TT, Model 7440 (Sheet 2 of 2)

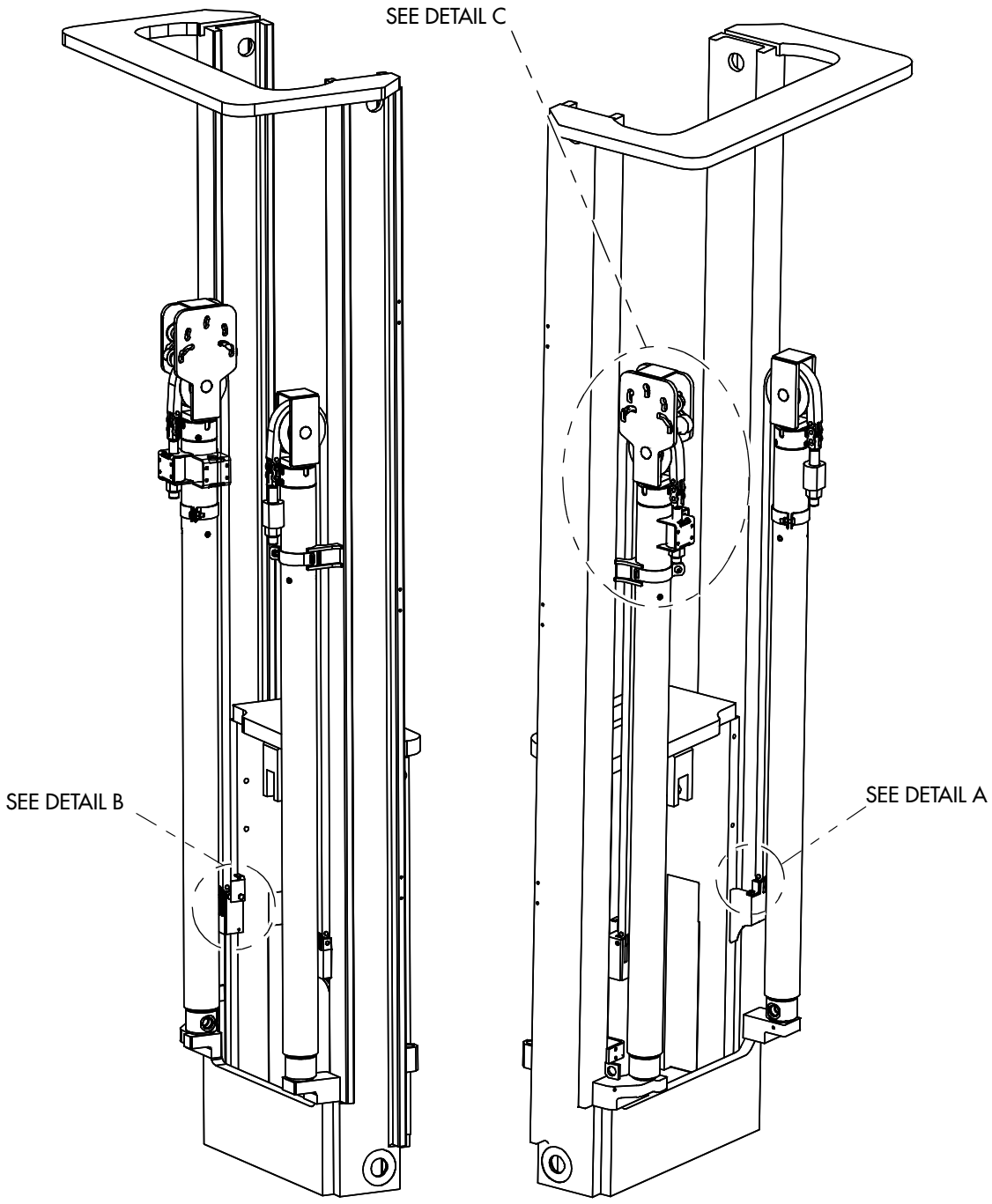
FIGURE 7-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
43	AR	1045211	Shim, Spacer	
44	2	1045212	Shim, Mast Kickback	
45	2	1045625	Plate, Kickback	
46	2	1045689	Stud, Chain Sheave	
47	2	714-143	Screw	
48	2	828-000-985/004	Stop Assembly (See Figure 7-57.)	
49	AR	1066633	Shim, Spacer	
50	2	5-018-005	Washer, Flat	
51	2	771-025	Washer, Flat	
52	2	5-001-026	Screw	
53	8	7-710-012/025	Screw	
54	2	1012481	Screw	
55	2	1036610/001	Sleeve, Ram Spacer, Inner	
56	2	1036612/001	Sleeve, Ram Spacer, Outer	
57	8	1042113	Sleeve, Flanged	
58	1	1042529	Bracket, Cylinder Mounting, Main Lift, Left-Hand	
59	1	1042530	Bracket, Cylinder Mounting, Main Lift, Right-Hand	
60	1	1051794	Bracket, Cylinder Mounting, Main Lift, Left-Hand	
61	1	1051795	Bracket, Cylinder Mounting, Main Lift, Right-Hand	
62	1	Ref.	Cylinder, Main Lift, Right-Hand (See Figure 6-26.)	
63	1	Ref.	Cylinder, Main Lift, Left-Hand (See Figure 6-26.)	
64	1	Ref.	Main Frame Weldment	B
65	1	Ref.	Telescopic Weldment, Outer	B
66	1	Ref.	Telescopic Weldment, Inner	B

A= Chain Length = (OACH + 9)
B= Contact Technical Support
R= Recommended Spare

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Free Lift Chain Assembly, Model 7400

Figure 7-7a: Free Lift Chain Assembly, Model 7400

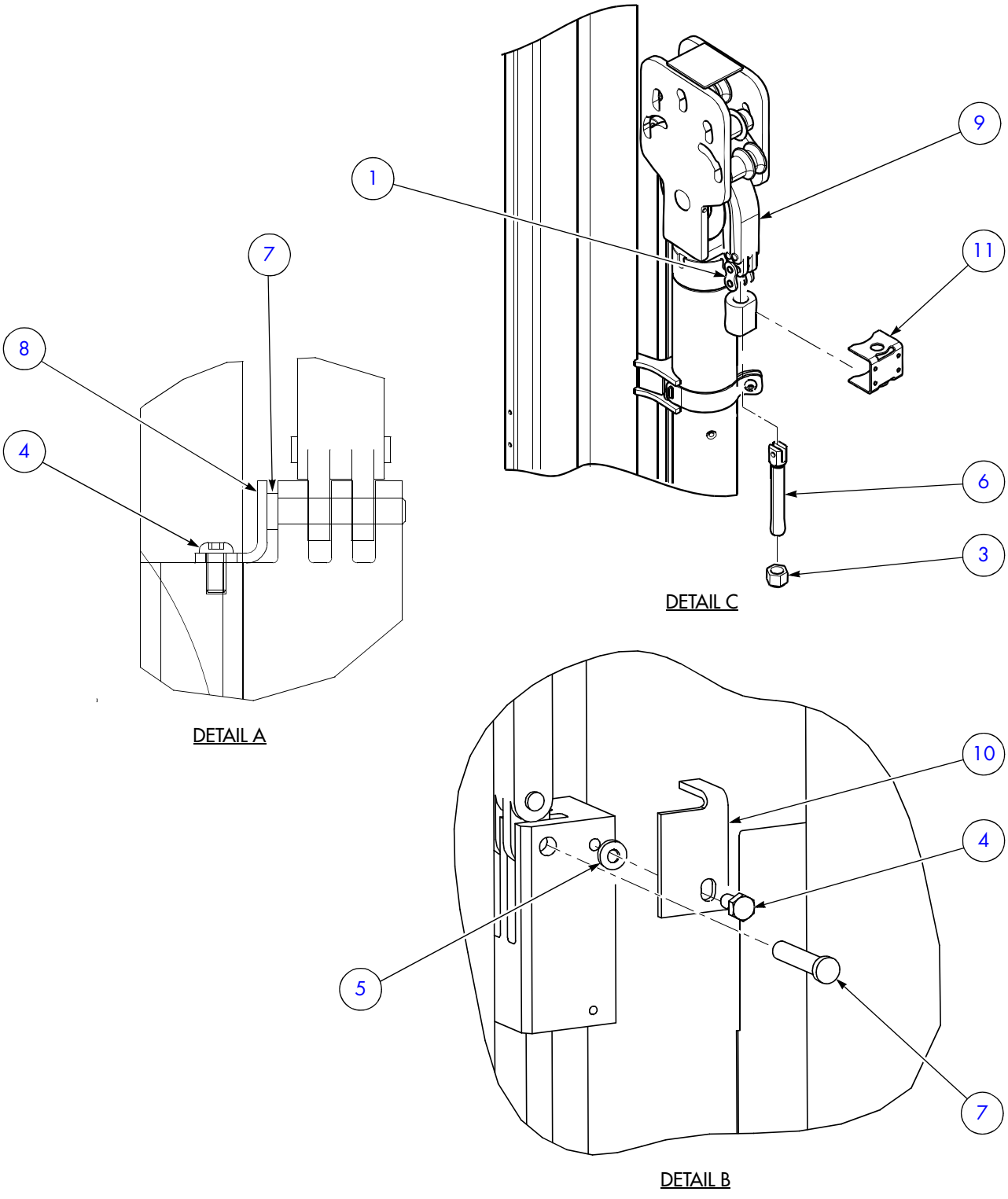


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Free Lift Chain Assembly, Model 7400

Figure 7-7b: Free Lift Chain Assembly, Model 7400



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List 7-7: Free Lift Chain Assembly, Model 7400

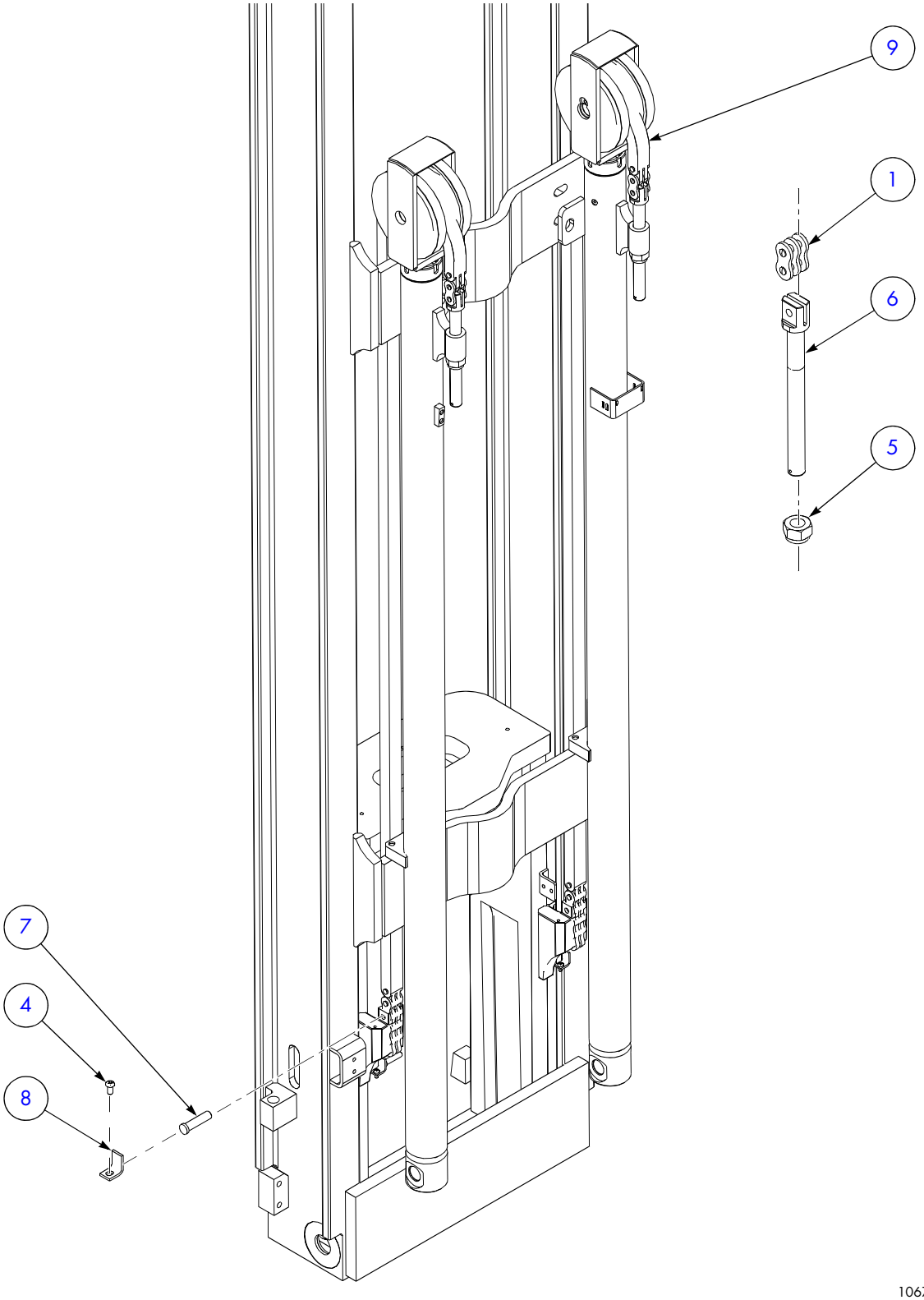
FIGURE 7-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	681-847	Link, Connecting	
3	2	760-054	Nut, Lock	
4	2	5-001-001	Screw	
5	1	314065-006	Washer, Flat	
6	AR	828-005-178/002	Anchor, Chain, Free Lift (7.50 in.)	
	AR	828-005-178/005	Anchor, Chain, Free Lift (7.06 in.)	
	AR	828-005-178/006	Anchor, Chain, Free Lift (6.63 in.)	
	AR	828-005-178/007	Anchor, Chain, Free Lift (6.00 in.)	
7	2	1010323	Pin, Chain Anchor	
8	1	1011352	Bracket, Chain Anchor	
9	AR	681-031/100	Chain, Lift (Box 100 ft.)	A
10	1	1064949	Bracket, Chain Anchor, Left-Hand	
11	1	1078446	Bracket, Hose Clamp	

A= Contact Technical Support

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Free Lift Chain Assembly, Models 7420 and 7440

Figure 7-8: Free Lift Chain Assembly, Models 7420 and 7440



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List 7-8: Free Lift Chain Assembly, Models 7420 and 7440

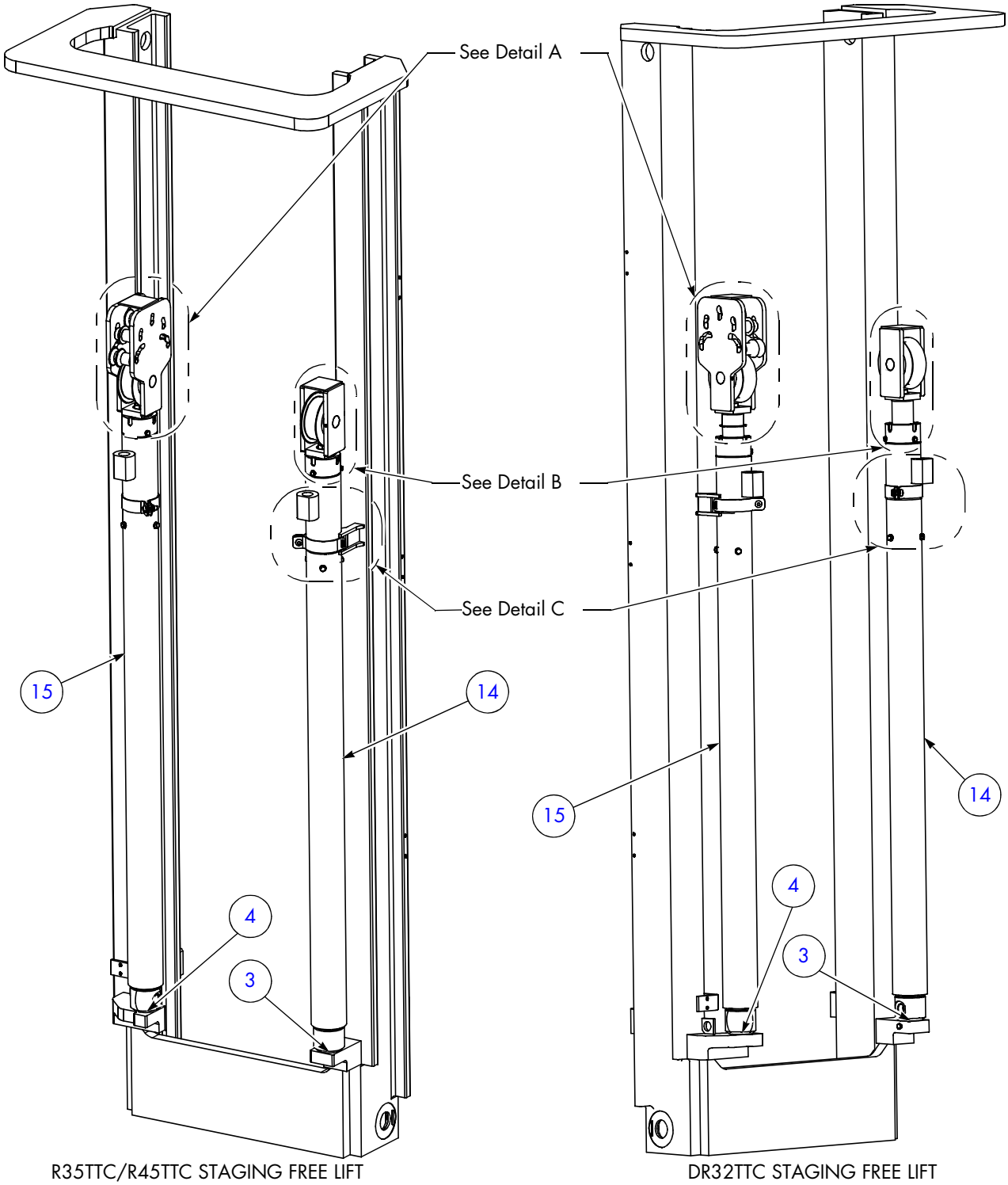
FIGURE 7-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	1039062	Link, Connecting	
4	2	5-003-011	Screw	
5	2	5-016-009	Nut, Nylon Locking	
6	2	1038906/003	Anchor, Chain, Free Lift (9.50 in. length, 5.88 in. thread)	
7	2	1004473	Pin, Chain Anchor	
8	2	1011352	Bracket, Chain Anchor	
9	AR	681-040/100	Chain, Lift (Box 100 ft.)	A

A= Contact Technical Support

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Cylinder and Pulley Bracket Assembly, Free Lift, Model 7400

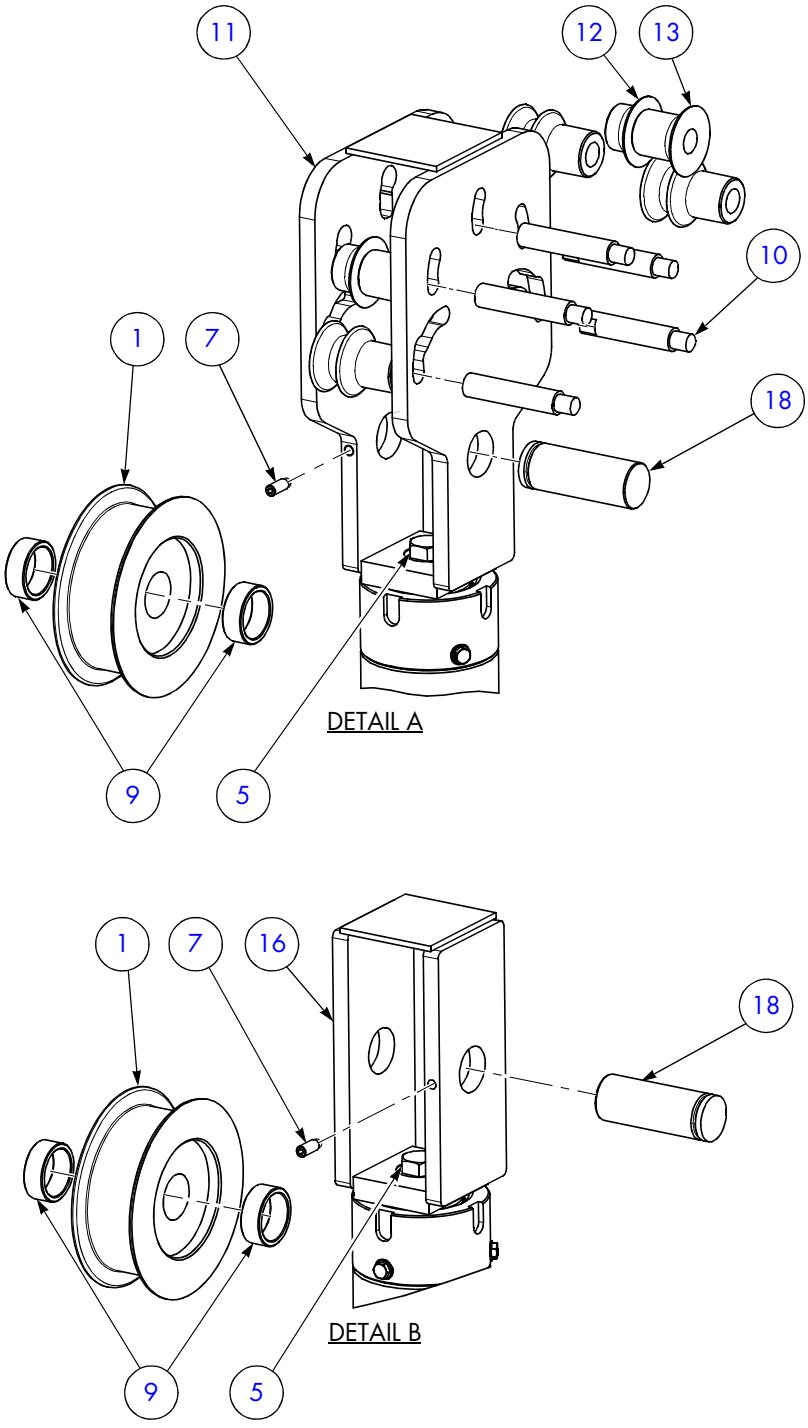
Figure 7-9a: Cylinder and Pulley Bracket Assembly, Free Lift, Model 7400



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Cylinder and Pulley Bracket Assembly, Free Lift, Model 7400

Figure 7-9b: Cylinder and Pulley Bracket Assembly, Free Lift, Model 7400

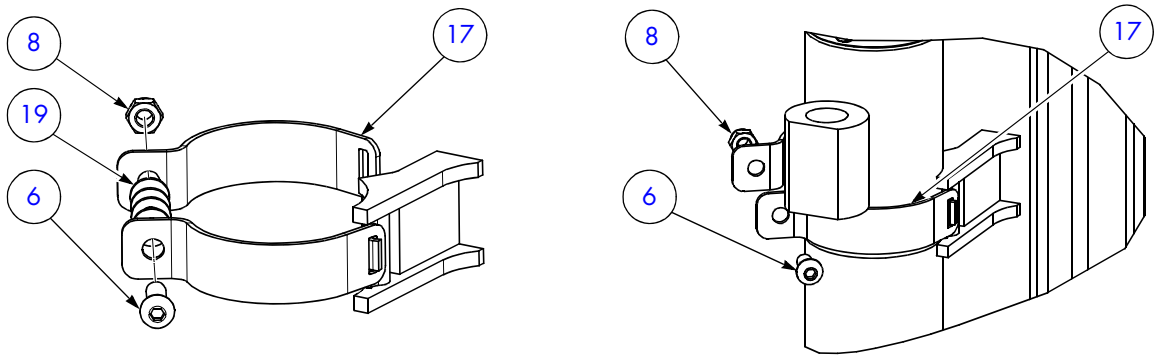


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Cylinder and Pulley Bracket Assembly, Free Lift, Model 7400

Figure 7-9c: Cylinder and Pulley Bracket Assembly, Free Lift, Model 7400



DETAIL C

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List 7-9: Cylinder and Pulley Bracket Assembly, Free Lift, Model 7400

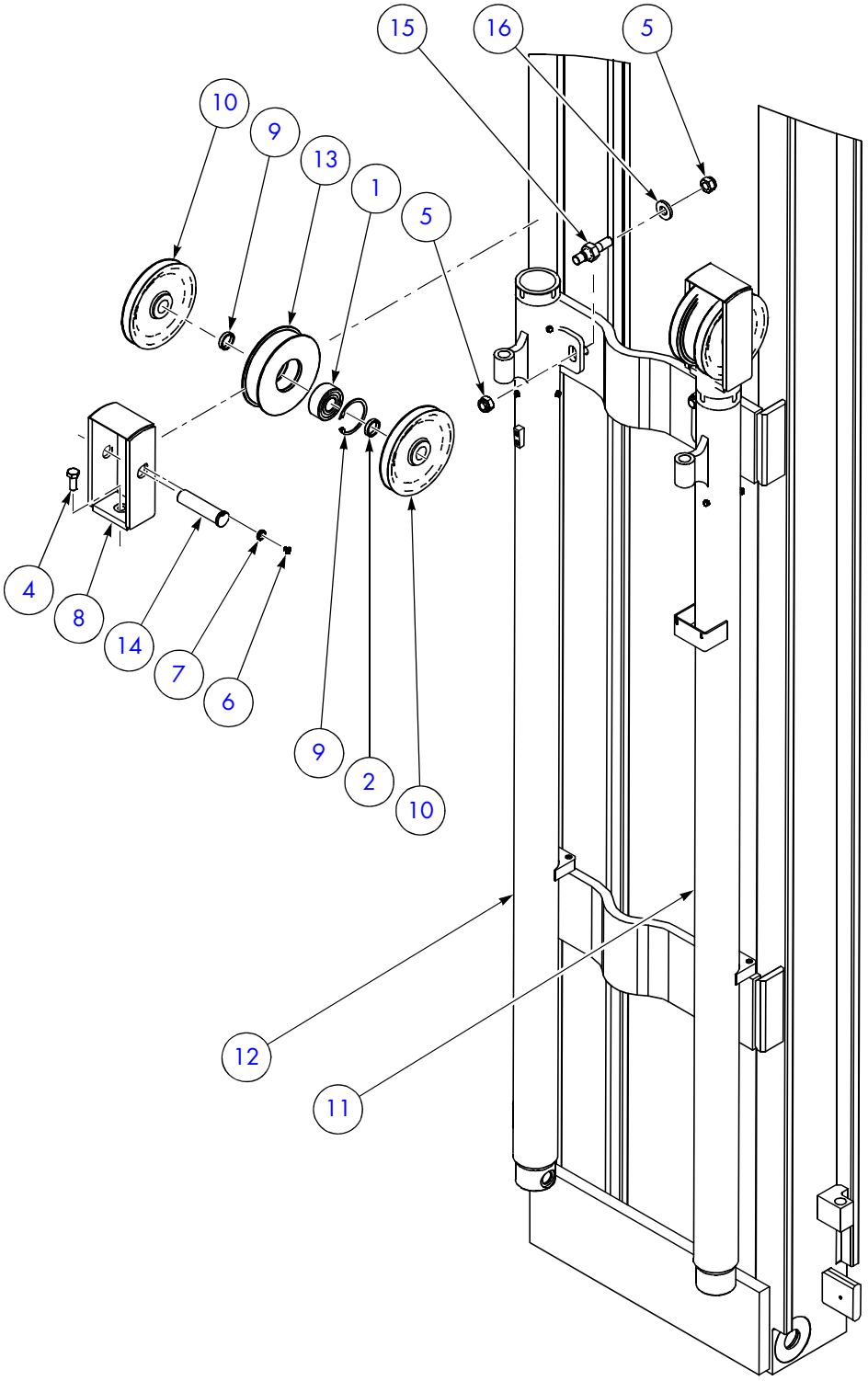
FIGURE 7-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	401-503	Pulley, Chain, Free Lift	
3	1	5-001-002	Screw	
4	1	5-001-003	Screw	
5	2	5-001-024	Screw	
6	2	5-003-017	Screw	A
	2	5-003-019	Screw	B
7	2	5-006-024	Screw	
8	2	5-016-005	Nut, Nylon Locking	
9	4	1005757	Spacer	
10	5	1052684	Shaft, Roller	
11	1	1052686	Bracket	
12	5	1062459/001	Roller	
13	5	1062459/002	Roller	
14	1	Ref.	Cylinder Assembly, Free Lift, Right-Hand (See Figure 6-28.)	C
15	1	Ref.	Cylinder Assembly, Free Lift, Left-Hand (See Figure 6-28.)	C
16	1	1067117	Bracket, Free Lift Pulley, Model 7400, Right-Hand	
17	4	1067267	Strap, Free Lift Cylinder, Upper (AC LIFT)	
	4	1067239	Strap, Free Lift Cylinder, Upper (DC LIFT)	
18	2	1068120	Shaft, Pulley	
19	8	5-018-006	Washer, Flat	
20	2	1019029	Spacer, Ram Ring (Not Shown)	

A= DR32TT (Use 2 of item 4)
B= R35TT and R45TT
C= Contact Technical Support

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Cylinder and Pulley Bracket Assembly, Free Lift, Model 7420 and 7440

Figure 7-10: Cylinder and Pulley Bracket Assembly, Free Lift, Model 7420 and 7440



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List 7-10: Cylinder and Pulley Bracket Assembly, Free Lift, Model 7420 and 7440

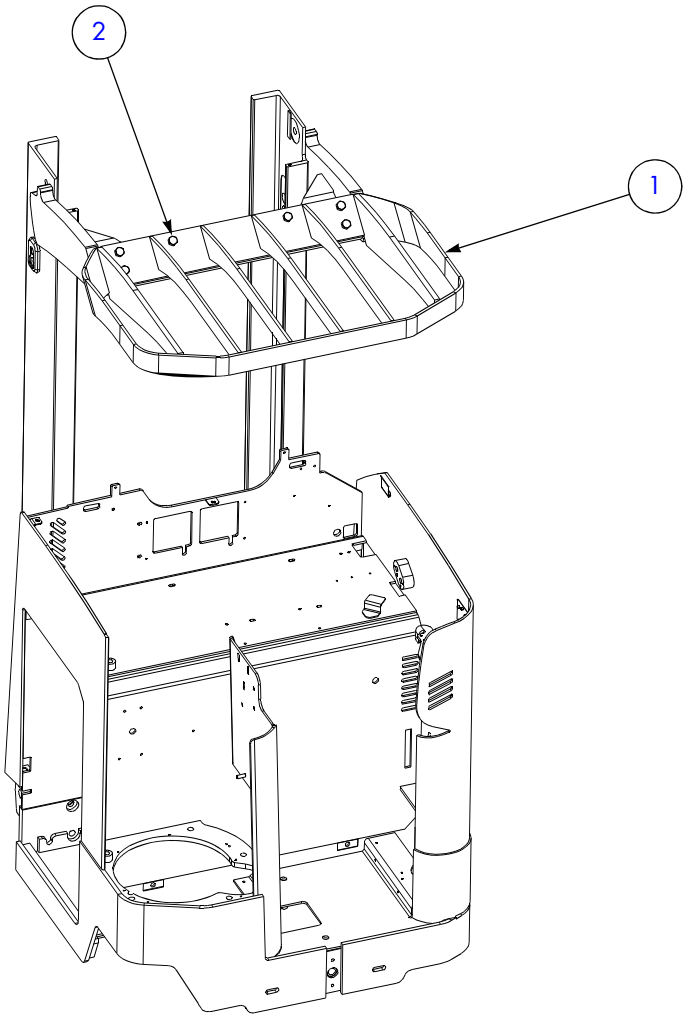
FIGURE 7-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	443-027	Bearing, Chain Pulley Sheave	R
2	2	810-045	Ring, Snap	
4	2	5-001-024	Screw	
5	4	5-016-008	Nut, Nylon Locking	
6	2	1005931	Screw	
7	2	1006019	Stop, Shaft	
8	2	1036912	Bracket, Free Lift Pulley, Models 7420 and 7440	
9	4	1036915	Shim, Spacer	
10	4	1036977	Pulley, Hose and Cable	
11	1	Ref.	Cylinder Assembly, Free Lift, Right-Hand (See Figure 6-29.)	B
12	1	Ref.	Cylinder Assembly, Free Lift, Left-Hand (See Figure 6-29.)	B
13	2	1038921	Sheave, Lift Chain	
14	2	1044133	Shaft, Pulley	
15	2	1045952	Stud, Free Lift Upper Mounting	
16	2	1045963	Washer, Flat	
17	2	1059872	Spacer, Ram Ring (Not Shown)	A

A= For Optional 3 in. Fork Lowered Height
B= Contact Technical Support
R= Recommended Spare

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Overhead Guard Installation

Figure 7-11: Overhead Guard Installation



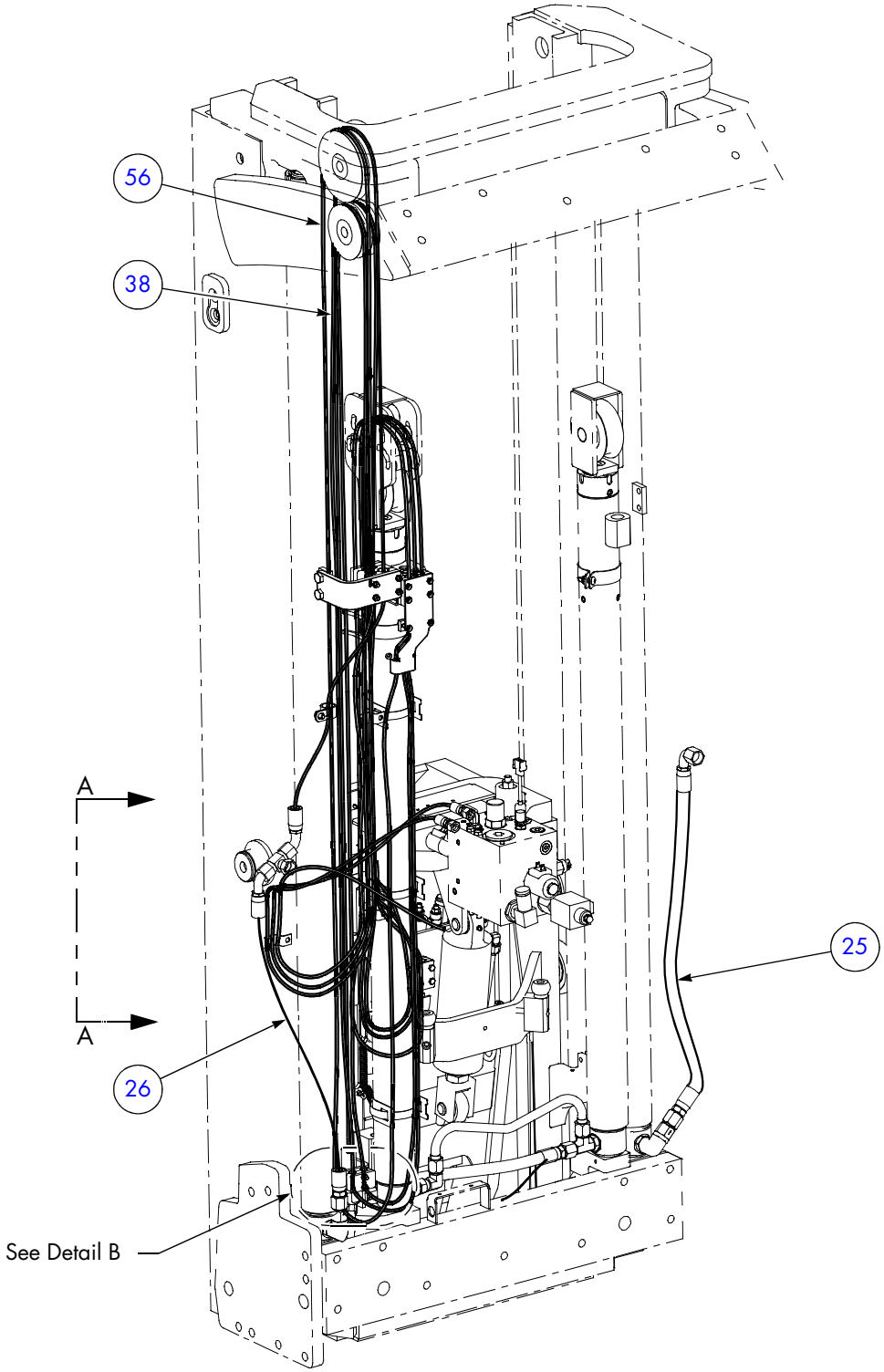
List 7-11: Overhead Guard Installation

FIGURE 7-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1068036/002	Guard Weldment, Overhead (16.5 in. Battery Compartment)	
	1	1068036/003	Guard Weldment, Overhead (18.5 in. Battery Compartment)	
	1	1068036/004	Guard Weldment, Overhead (21.5 in. Battery Compartment)	
2	6	5-001-030	Screw	

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Hose and Cable Installation, Mast, Model 7400

Figure 7-12a: Hose and Cable Installation, Mast, Model 7400



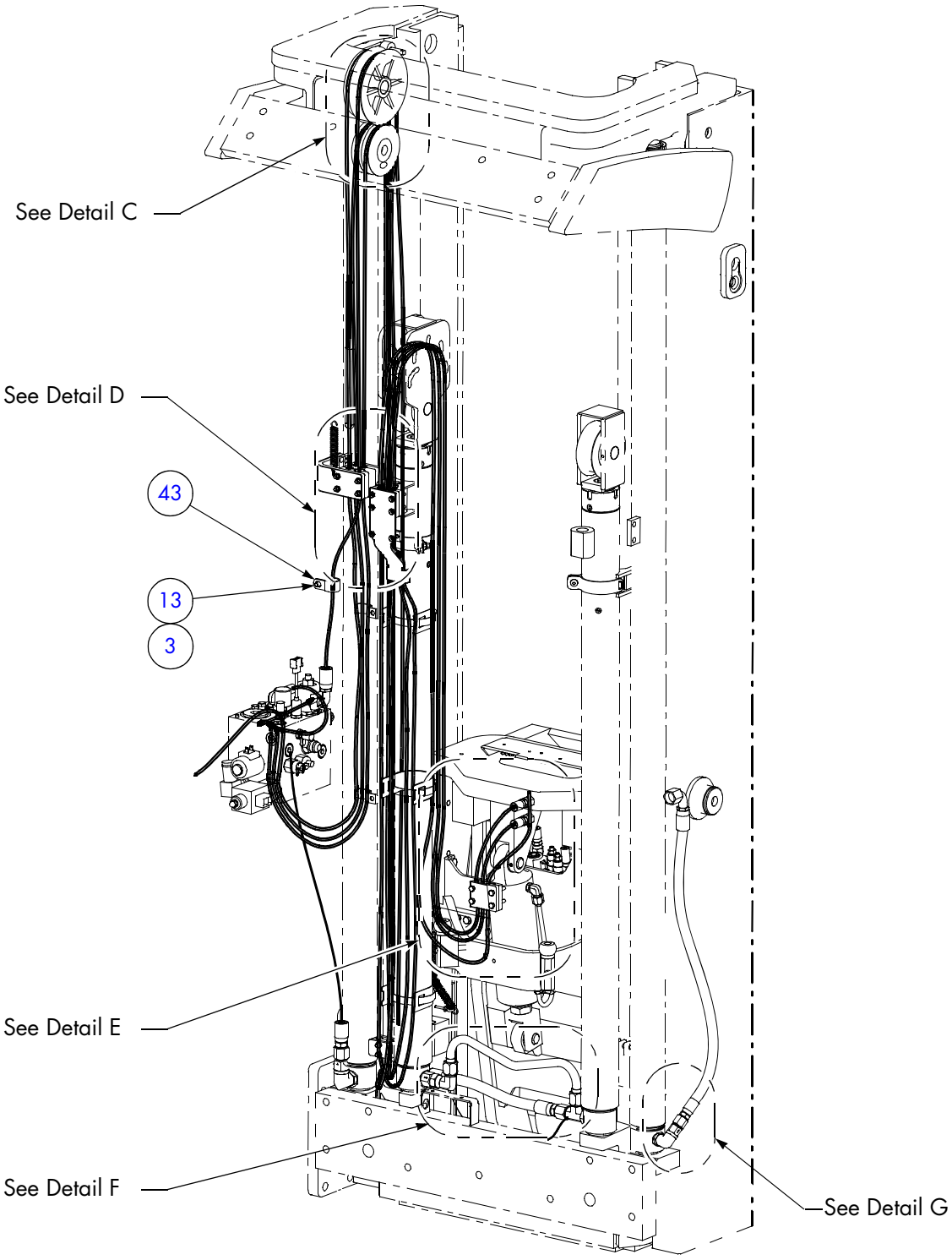
A2 TRACTOR MANIFOLD TO A2 MAST MANIFOLD

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Hose and Cable Installation, Mast, Model 7400

Figure 7-12b: Hose and Cable Installation, Mast, Model 7400



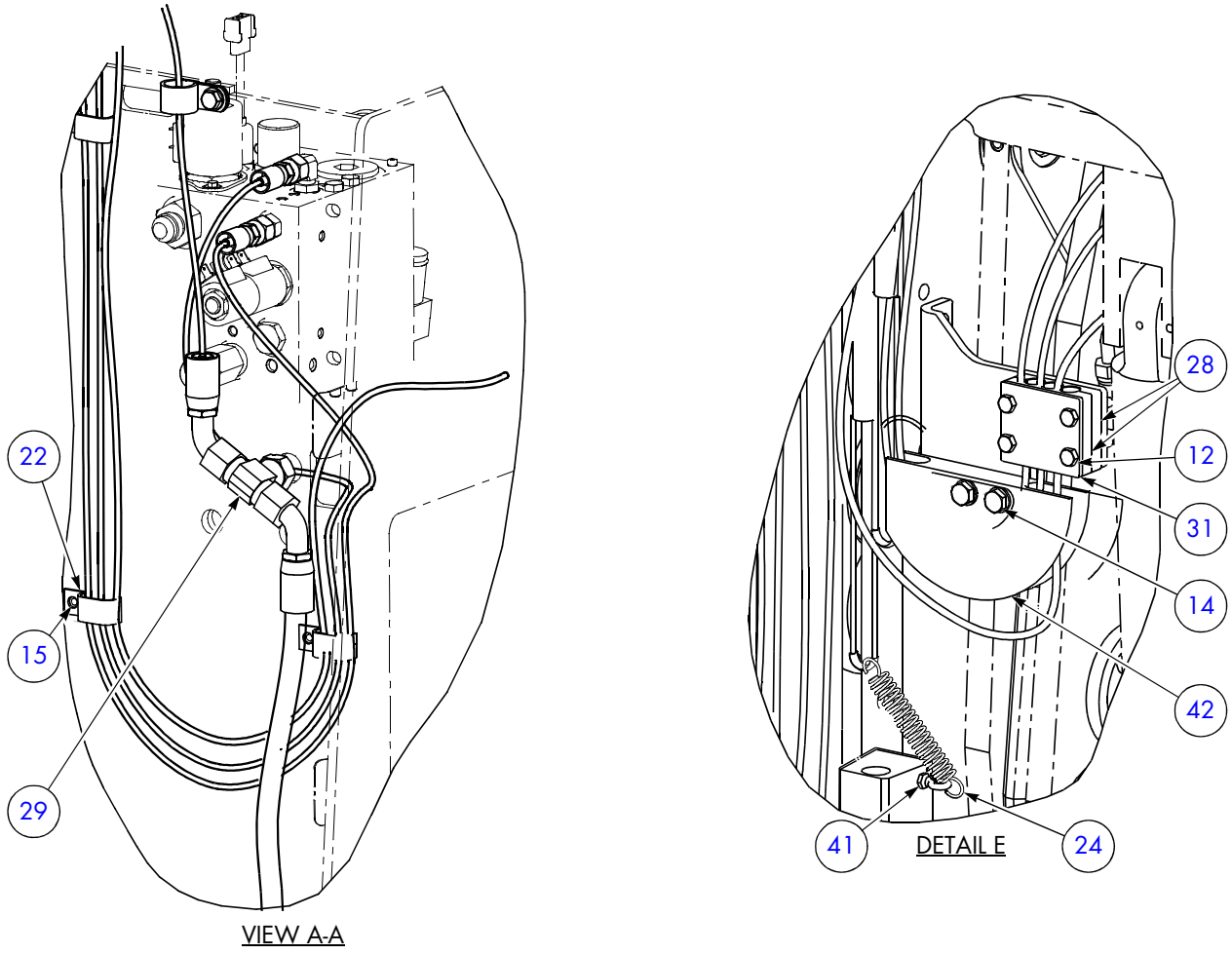
A1 TRACTOR MANIFOLD TO A1 MAST MANIFOLD

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Hose and Cable Installation, Mast, Model 7400

Figure 7-12c: Hose and Cable Installation, Mast, Model 7400

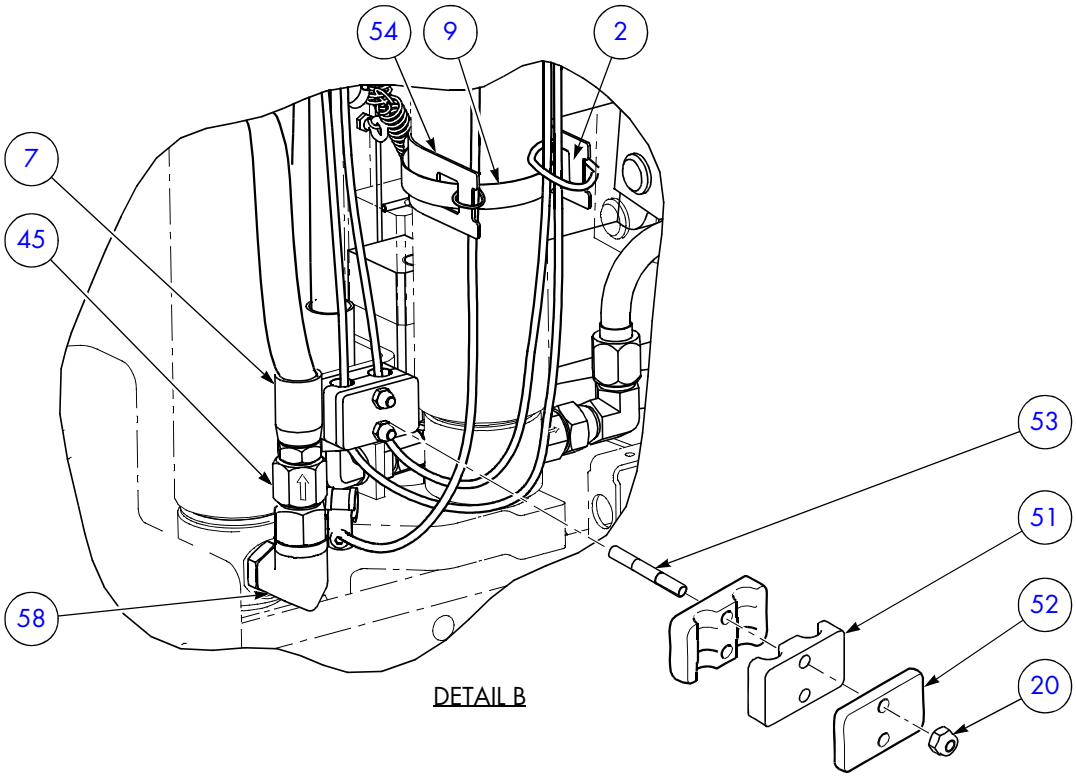


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Hose and Cable Installation, Mast, Model 7400

Figure 7-12d: Hose and Cable Installation, Mast, Model 7400

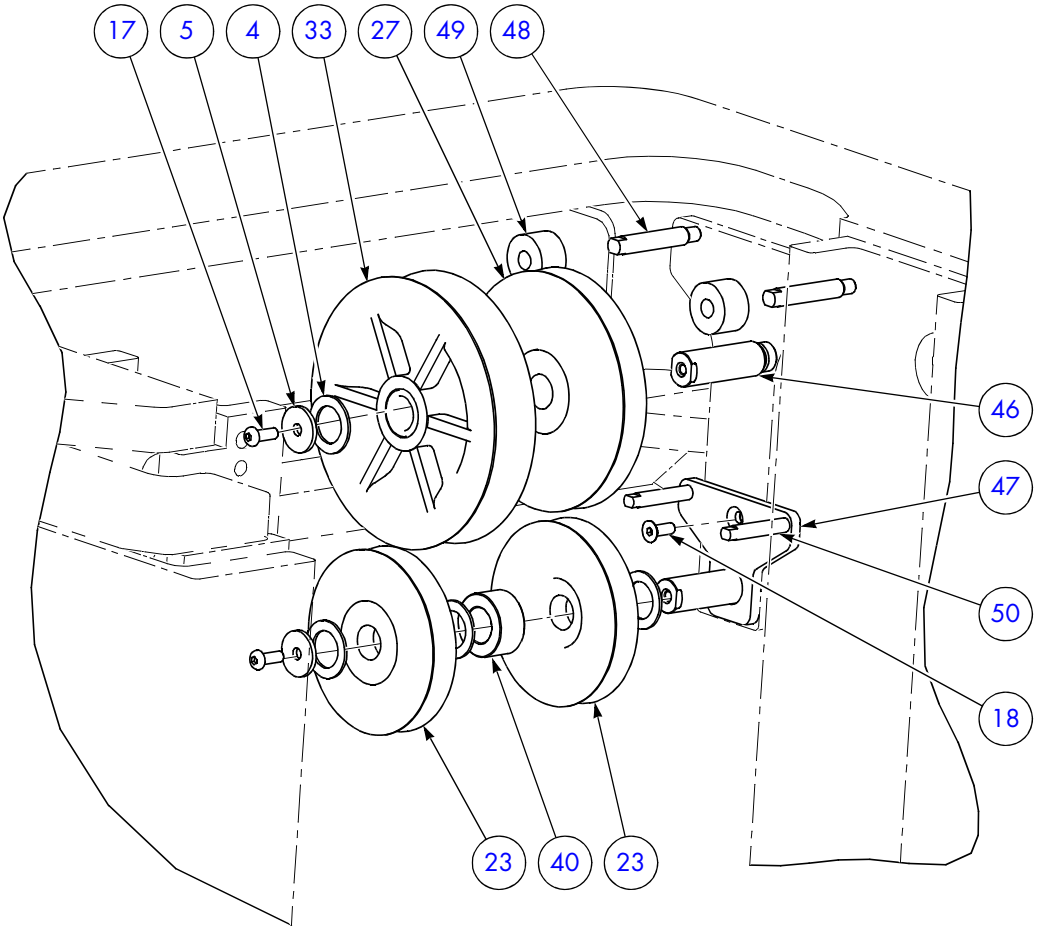


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Hose and Cable Installation, Mast, Model 7400

Figure 7-12e: Hose and Cable Installation, Mast, Model 7400



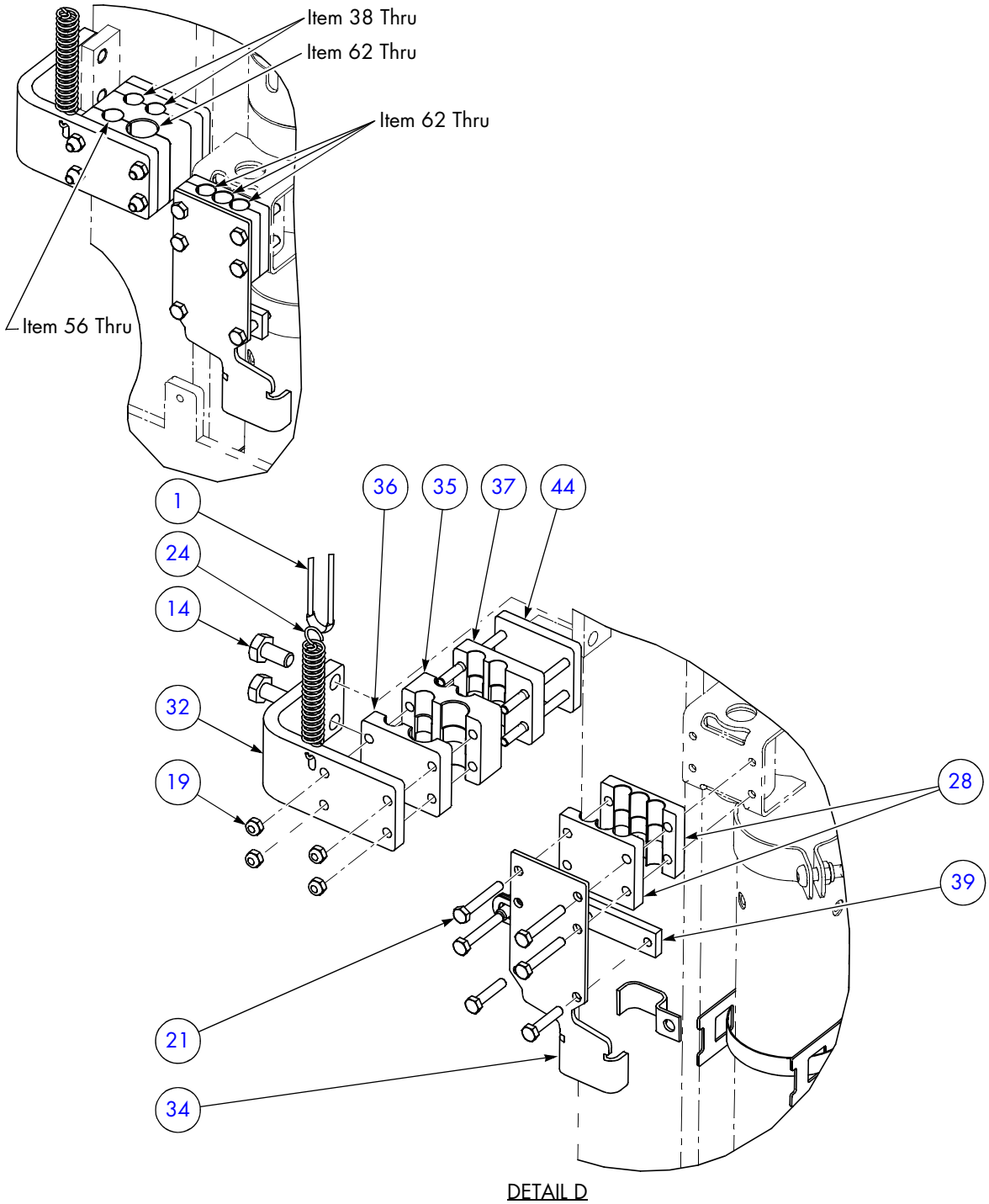
DETAIL C

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Hose and Cable Installation, Mast, Model 7400

Figure 7-12f: Hose and Cable Installation, Mast, Model 7400

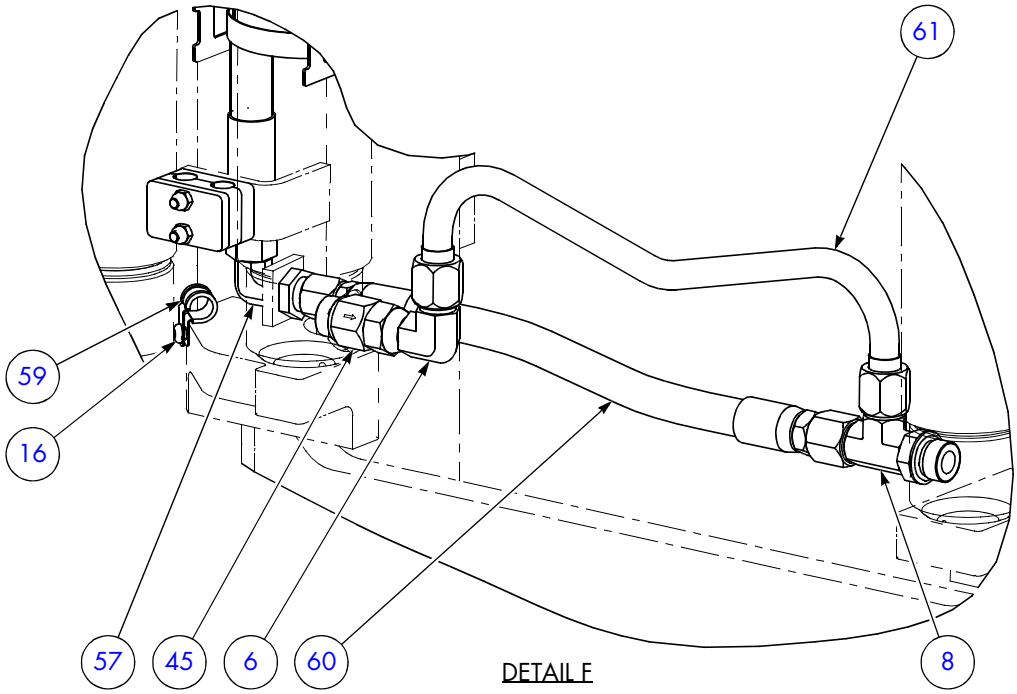


1080943_C3 1080943_C4 SHT 6 OF 8

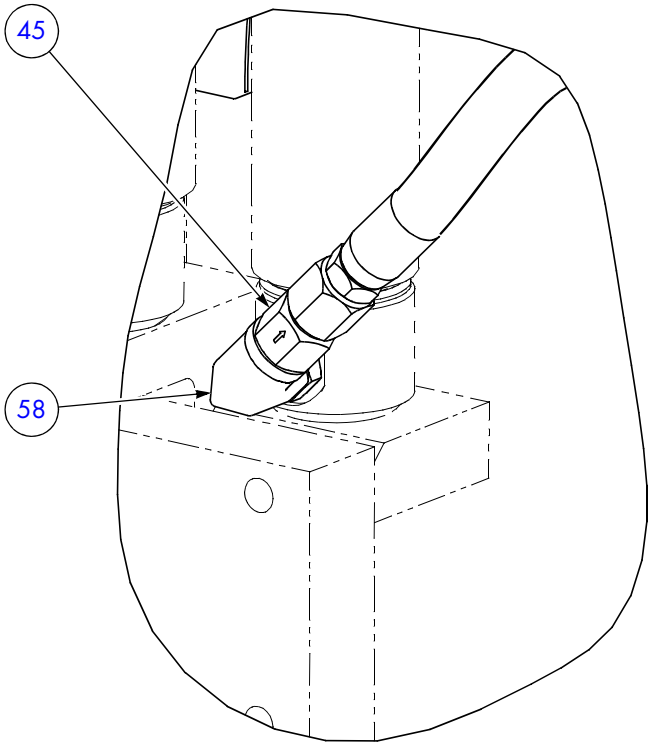
https://truckmanualshub.com/

Hose and Cable Installation, Mast, Model 7400

Figure 7-12g: Hose and Cable Installation, Mast, Model 7400



DETAIL F



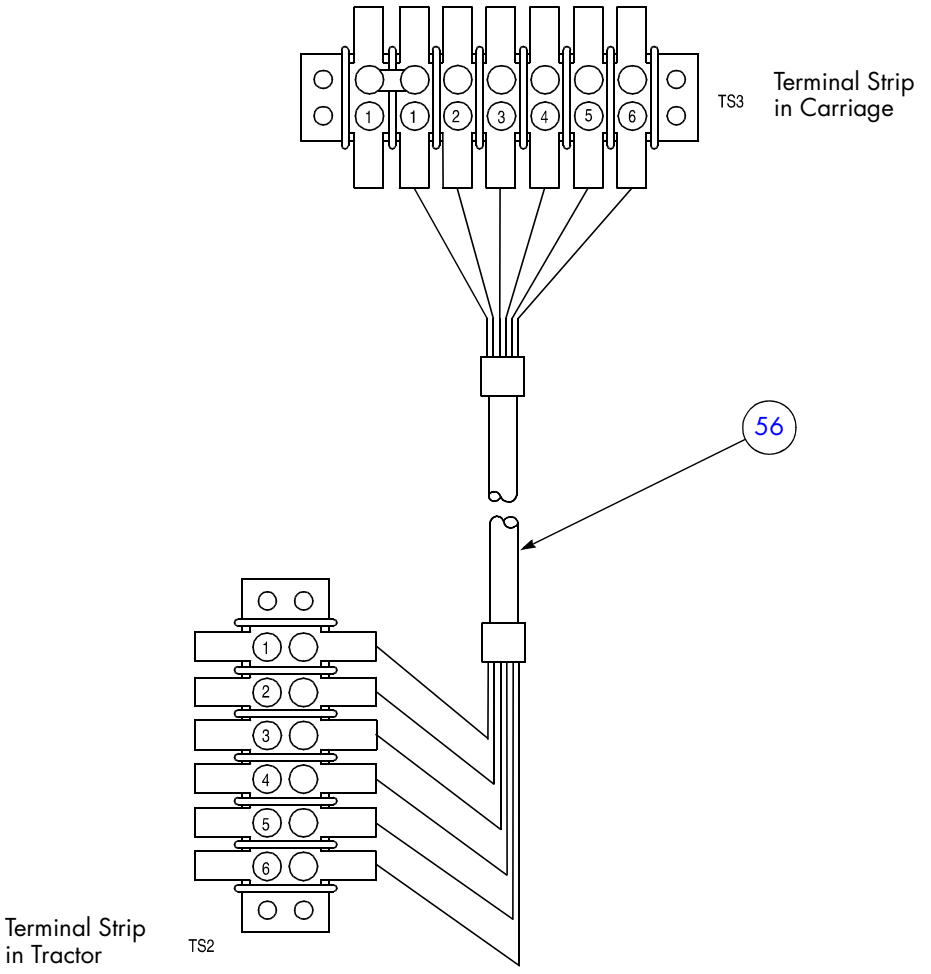
DETAIL G

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Hose and Cable Installation, Mast, Model 7400

Figure 7-12h: Hose and Cable Installation, Mast, Model 7400



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List 7-12: Hose and Cable Installation, Mast, Model 7400 (Sheet 1 of 2)

FIGURE 7-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	600-345/005	Grip, Cable	
2	AR	611-029	Cable Tie	
3	1	771-019	Washer, Flat	
4	AR	771-137	Washer, Flat	
5	2	771-161	Washer, Flat	
6	1	790-620	Fitting, Elbow, Free Lift Cylinder, Left-Hand	
7	2	792-376	Fitting, Straight, Main Lift Cylinder, Right-Hand	
8	1	792-624	Fitting, Straight, Run Tee	
9	3	811-925/011	Clamp, Hose	
12	8	5-001-005	Screw	
13	1	5-001-006	Screw	
14	4	5-001-015	Screw	
15	3	5-001-054	Screw	
16	1	5-003-011	Screw	
17	2	5-003-012	Screw	
18	1	5-004-014	Screw	
19	4	5-016-004	Nut, Nylon Locking	
20	2	5-016-014	Nut	
21	2	7-710-006/030	Screw	
22	3	812-000-605	Clamp	
23	2	828-010-203	Pulley, Hose, Auxiliary, Over-the-Mast	
24	2	830-052	Spring, Tension	R
25	1	1001288/094	Hose Assembly, Tractor to Main Lift Cylinder, Right-Hand, Model 7400	
26	1	1001288/095	Hose Assembly, Tractor to Main Lift Cylinder, Left-Hand, Model 7400	
27	1	1004665	Pulley, Cable, Over-the-Mast	
28	4	1012967	Plate, Mounting, Clamp, Half	
29	1	1013456/005	Fitting, Tee, Supply at Bulkhead	
31	1	1015585	Plate, Clamp, Hose	
32	1	1018878	Bracket	
33	1	1019061	Pulley, Hose, Lift, Over-the-Mast	
34	1	1019549	Bracket, Hose Routing	
35	1	1019876	Plate, Mounting, Clamp	
36	1	1019877	Plate, Mounting, Clamp	
37	1	1019878	Plate, Mounting, Clamp	
38	2	1019925/XXX	Hose Assembly, Auxiliary, Over-the-Mast	A
39	1	1020190	Clamp	
40	1	1026554	Shim, Spacer, Hose Sheave	
41	1	1032159	Bolt, Eye	
42	1	1080969	Bracket, Hose (R35TT and R45TT Only)	
43	1	1041513	Clamp, Cable	
44	1	1041713	Plate Assembly, Standoff	
45	1	1046192	Fitting, Straight	

A= Suffix = OACH minus 86 in.
R= Recommended Spare

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List 7-12: Hose and Cable Installation, Mast, Model 7400 (Sheet 2 of 2)

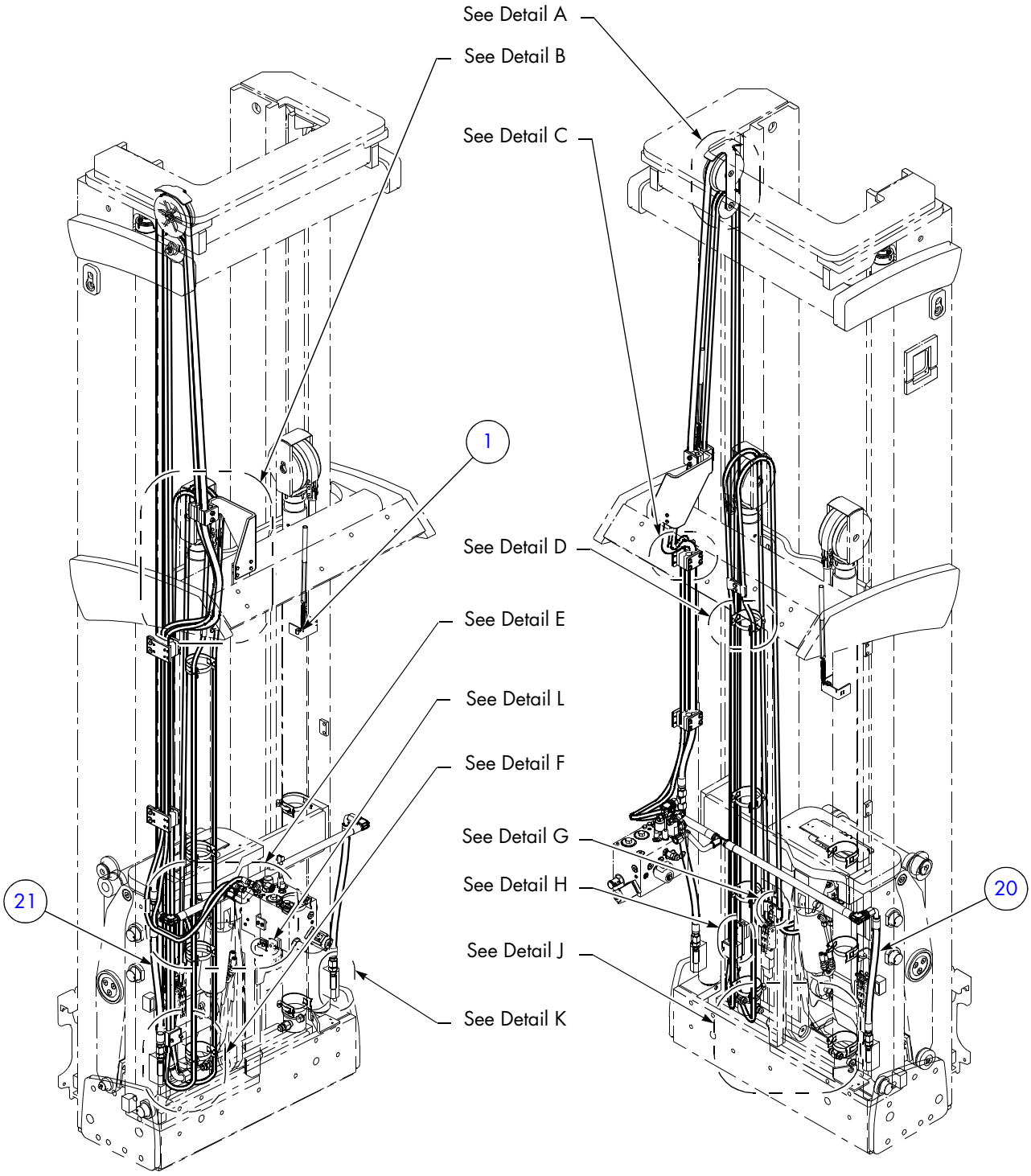
FIGURE 7-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
46	2	1065521	Stud, Hose Sheave	
47	1	1065524	Plate, Auxiliary Hose	
48	2	1065525	Pin, Hose	
49	2	1065526	Sleeve, Mast Cable	
50	2	1065547	Pin, Hose, Auxiliary	
51	2	1065549	Block, Clamp	
52	1	1065550	Plate, Clamp, Hose	
53	2	1065551	Stud	
54	3	1065765	Retainer, Hose	
55	1	1092714	Hose Assembly, Free Lift Cylinder (Not Shown)	
56	1	1070331/XXX	Cable Assembly, Over-the-Mast	A
	1	1080797/006	Cable Assembly, Video Up to 118 in. OACH	
	1	1080797/009	Cable Assembly, Video 119 in. to 133 in. OACH	
	1	1080797/015	Cable Assembly, Video 134 in. to 160 in. OACH	
57	1	1074188	Fitting, Elbow	
58	1	1075177/001	Fitting, Elbow	
59	1	1079448	Clamp, Cushioned Loop	
60	1	1081065	Hose Assembly, Free Lift Cylinder	
61	1	1081066	Line Assembly, Free Lift Cylinder	

A= Suffix = OACH minus 86 in.
R= Recommended Spare

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Hose and Cable Installation, Mast, Model 7420

Figure 7-13a: Hose and Cable Installation, Mast, Model 7420

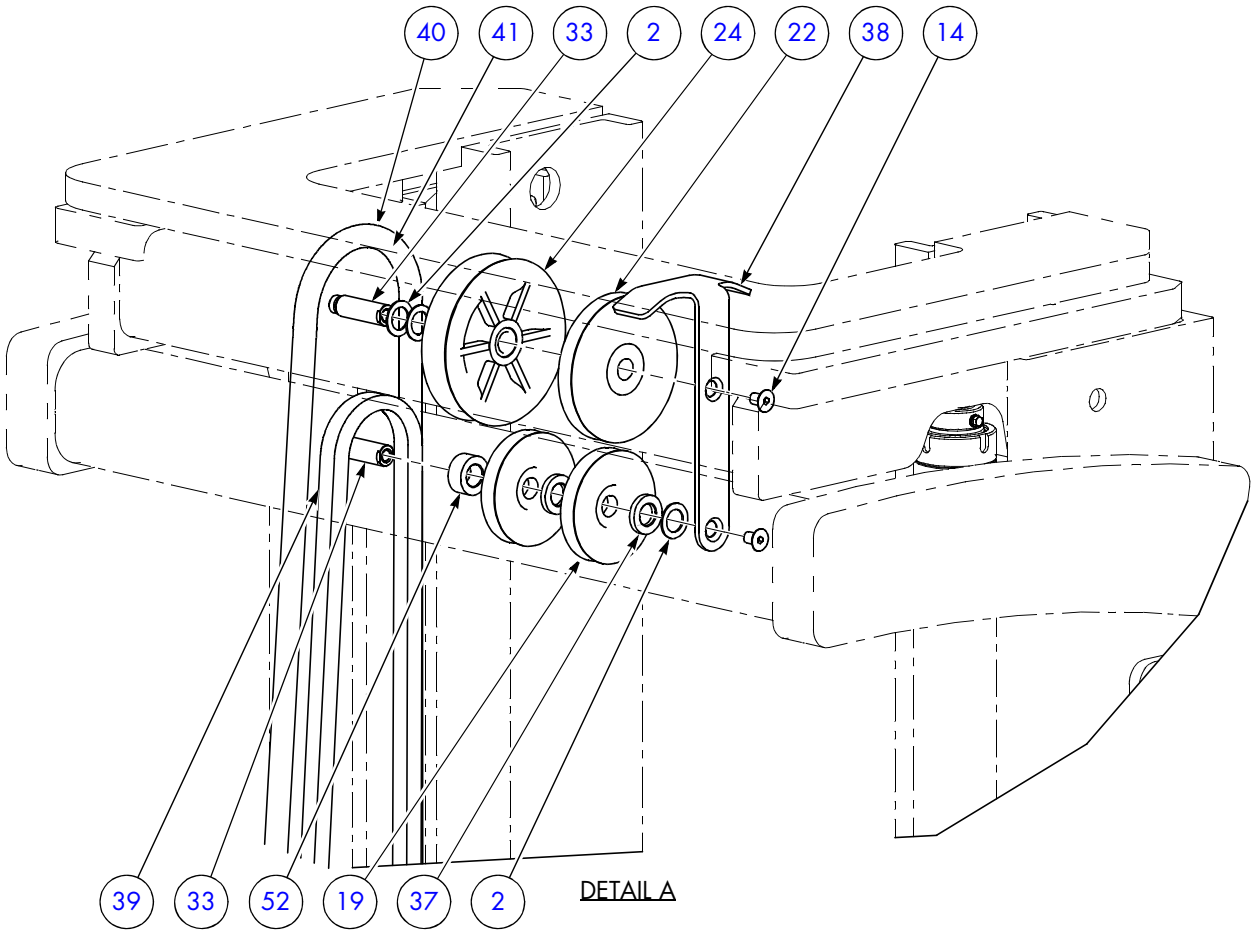


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Hose and Cable Installation, Mast, Model 7420

Figure 7-13b: Hose and Cable Installation, Mast, Model 7420

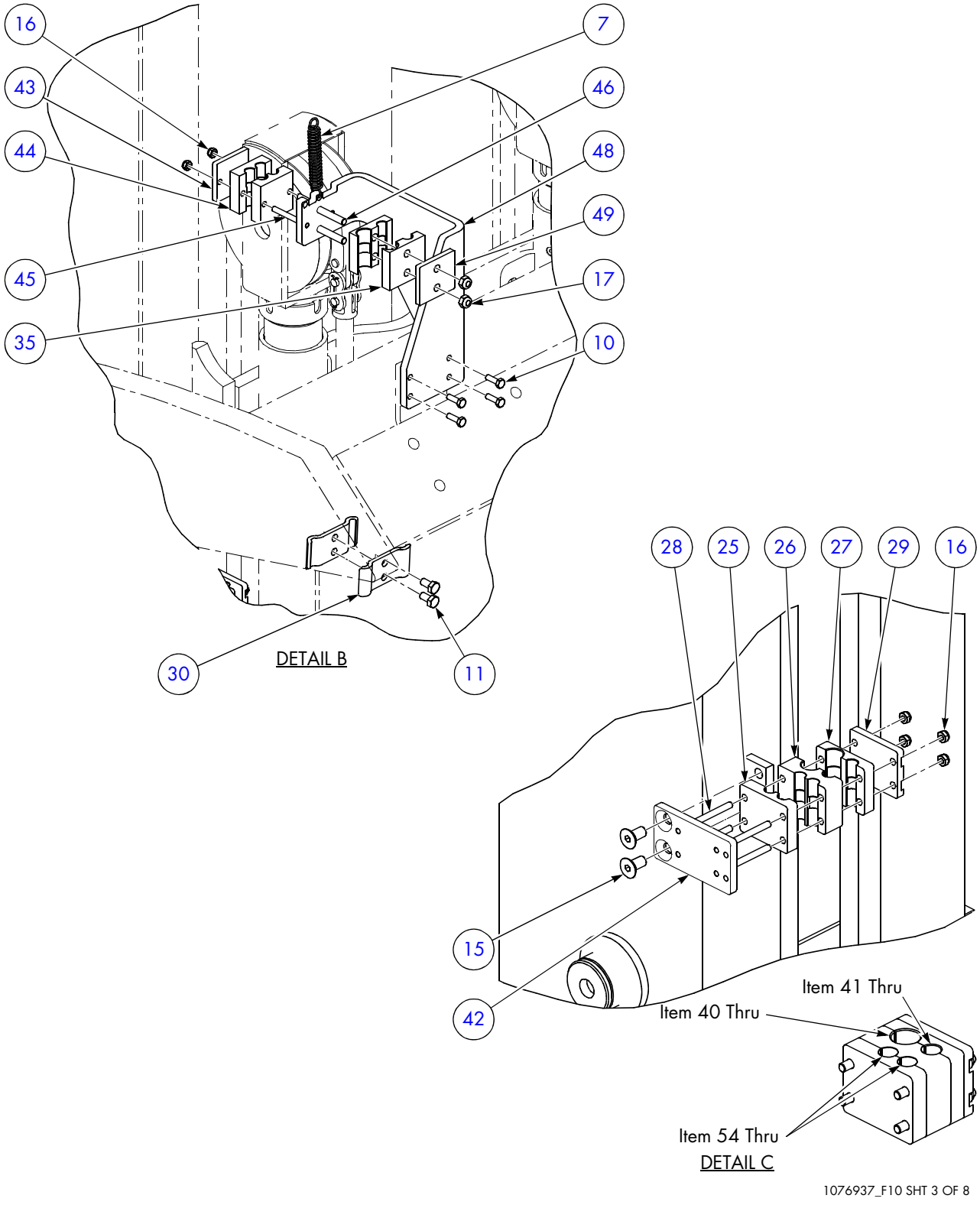


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Hose and Cable Installation, Mast, Model 7420

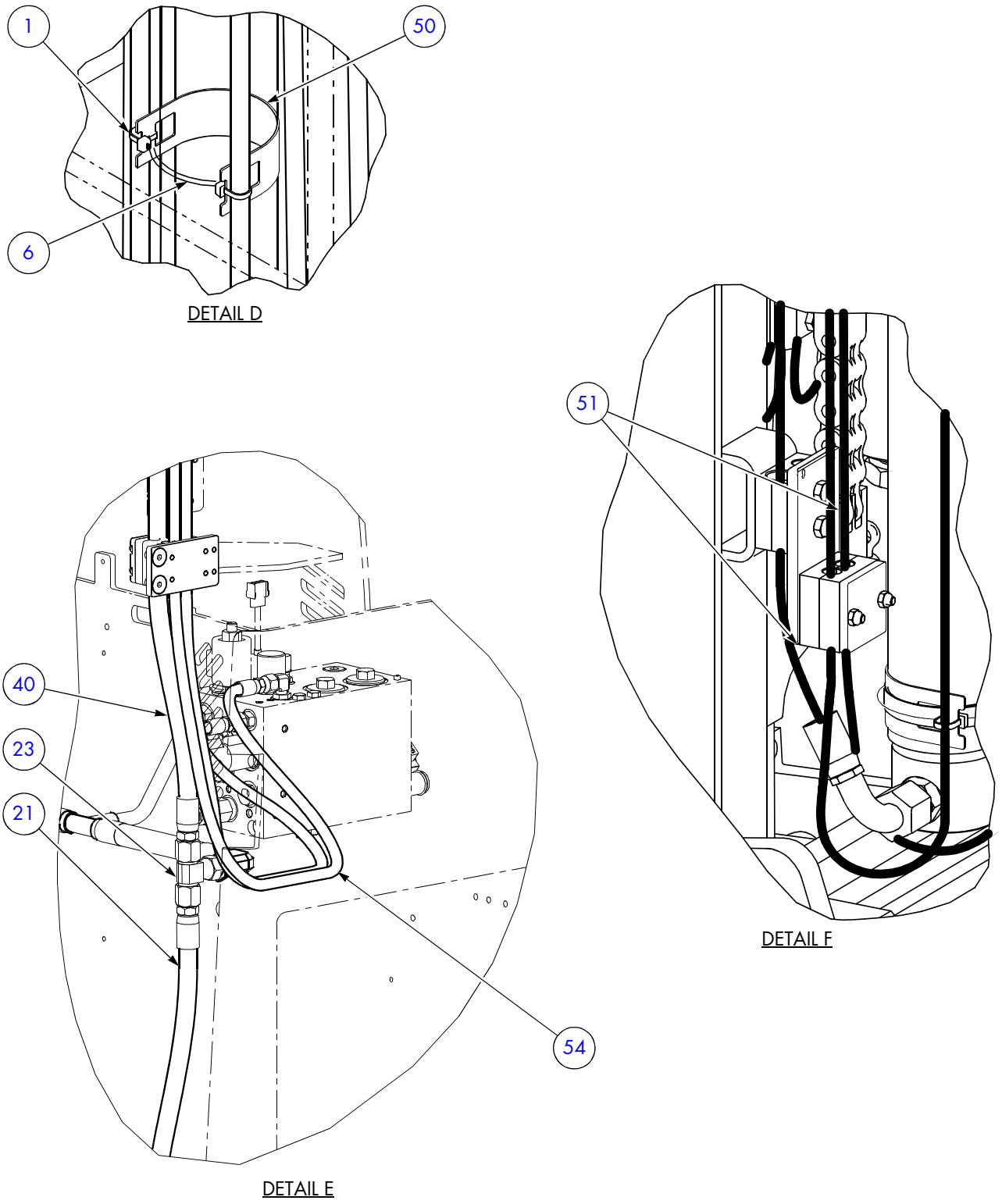
Figure 7-13c: Hose and Cable Installation, Mast, Model 7420



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Hose and Cable Installation, Mast, Model 7420

Figure 7-13d: Hose and Cable Installation, Mast, Model 7420

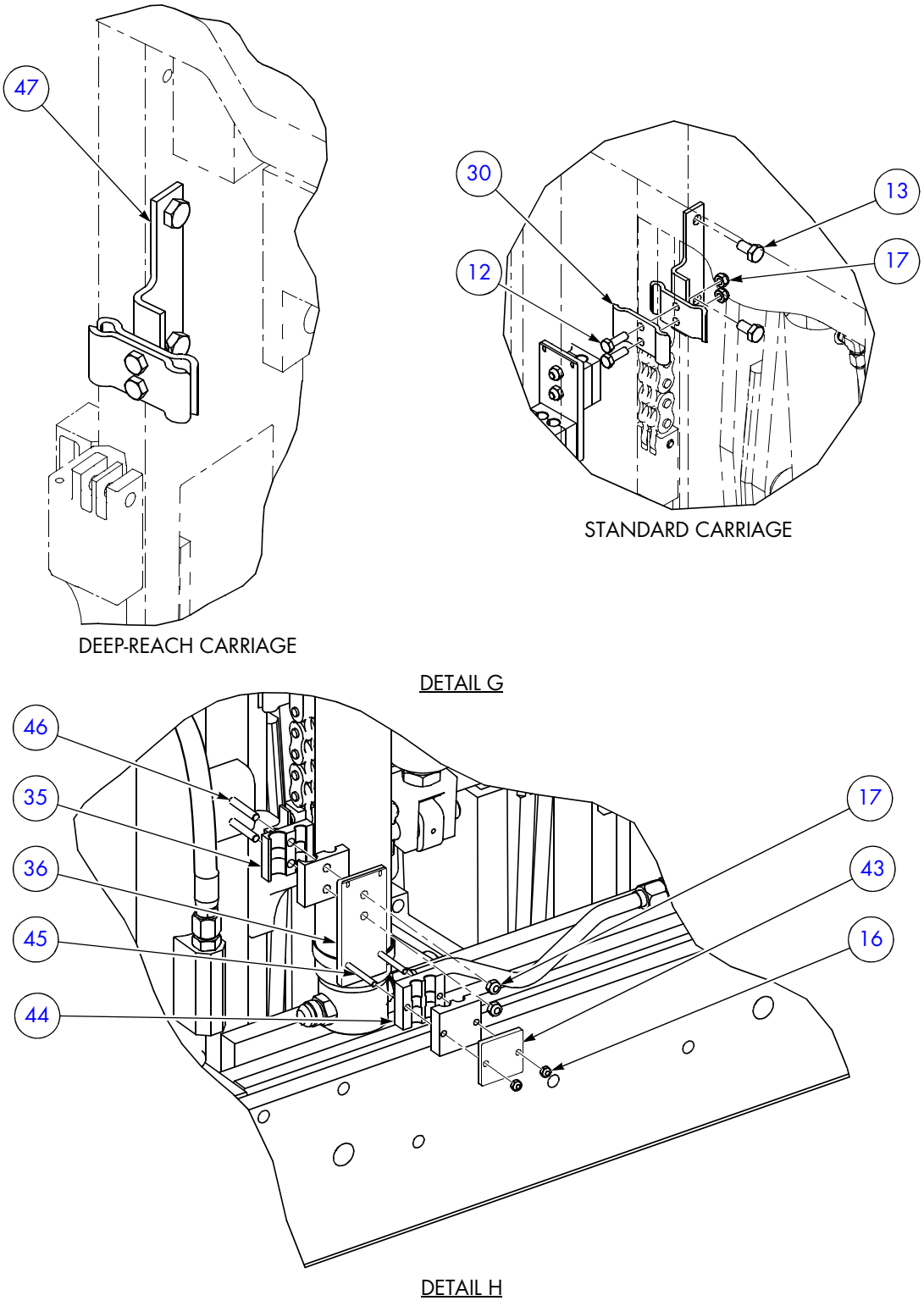


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Hose and Cable Installation, Mast, Model 7420

Figure 7-13e: Hose and Cable Installation, Mast, Model 7420

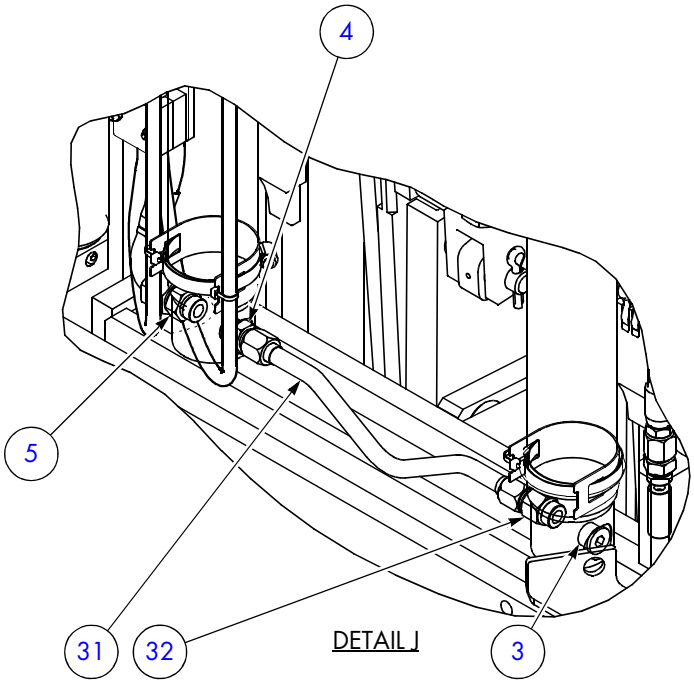


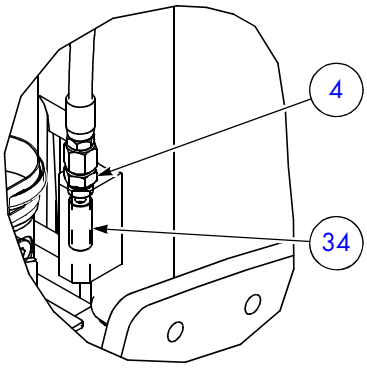
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Hose and Cable Installation, Mast, Model 7420

Figure 7-13f: Hose and Cable Installation, Mast, Model 7420



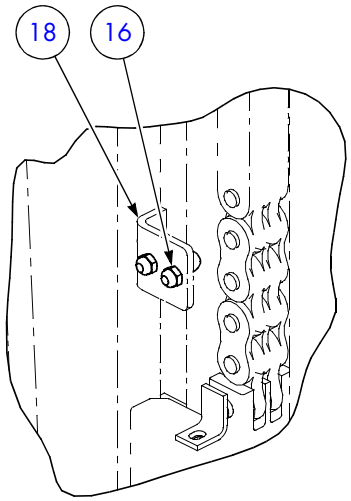


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Hose and Cable Installation, Mast, Model 7420

Figure 7-13g: Hose and Cable Installation, Mast, Model 7420

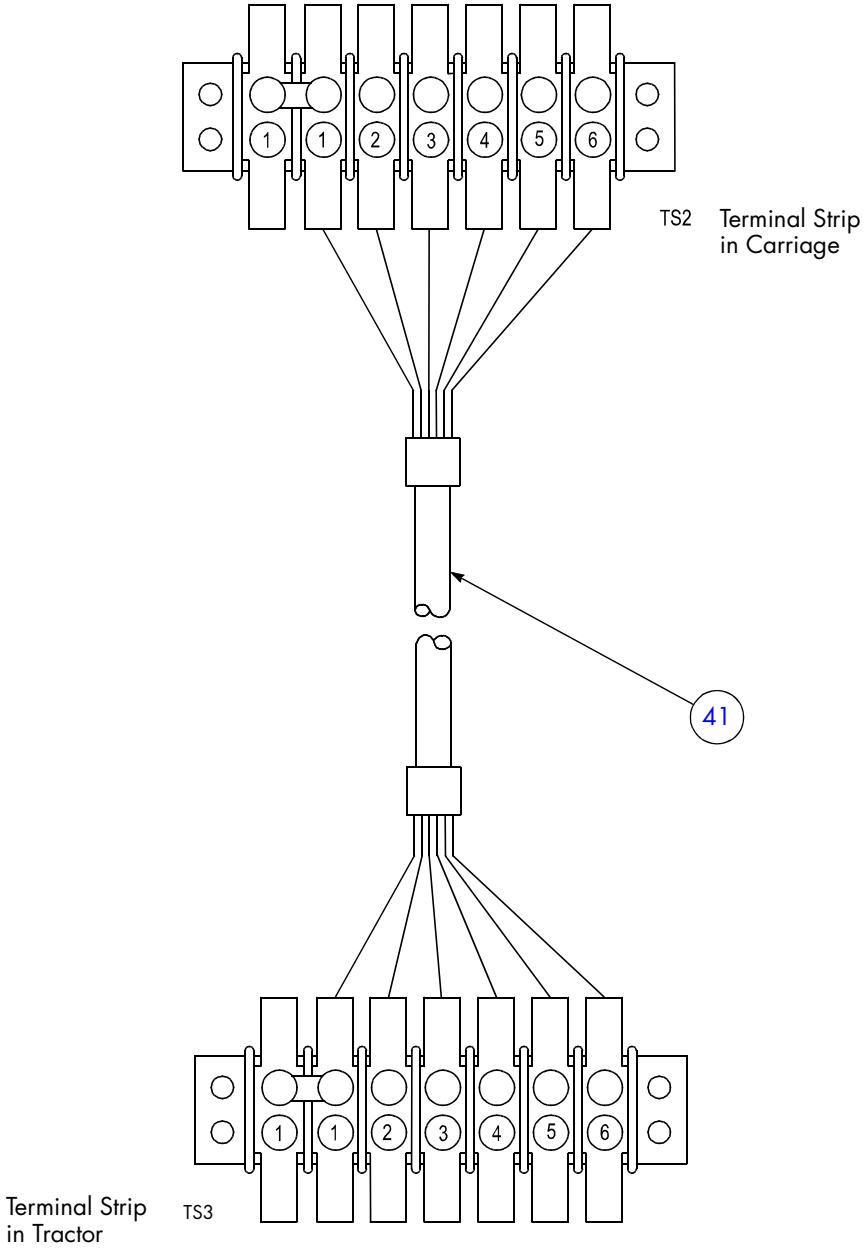


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Hose and Cable Installation, Mast, Model 7420

Figure 7-13h: Hose and Cable Installation, Mast, Model 7420



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List 7-13: Hose and Cable Installation, Mast, Model 7420 (Sheet 1 of 2)

FIGURE 7-13 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-029	Cable Tie	
2	AR	771-137	Washer, Flat	
3	1	792-216/007	Fitting, Plug, #12, Free Lift Cylinder	
4	3	792-376	Fitting, Straight, Main Lift Cylinder	
5	1	792-402	Fitting, Straight, Free Lift Cylinder	
6	7	309732-000	Clamp, Hose	
7	2	830-052	Spring, Tension	R
10	4	5-001-003	Screw	
11	2	5-001-007	Screw	
12	2	5-001-009	Screw	
13	2	5-001-015	Screw	
14	2	5-004-025	Screw	
15	4	5-004-026	Screw	
16	14	5-016-014	Nut, Lock	
17	6	5-016-015	Nut, Lock	
18	1	223-001-550	Clamp, U-Bolt	
19	2	828-010-203	Sheave, Carriage	
20	1	1001288/068	Hose Assembly, Tractor to Main Lift Cylinder, Right-Hand	
21	1	1001288/069	Hose Assembly, Tractor to Main Lift Cylinder, Left-Hand	
22	1	1004665	Pulley, Cable, Over-the-Mast	
23	1	1013456/005	Fitting, Tee, Supply at Bulkhead	
24	1	1019061	Pulley, Hose, Lift, Over-the-Mast	
25	2	1019876	Plate, Mounting, Clamp	
26	2	1019877	Plate, Mounting, Clamp	
27	2	1019878	Plate, Mounting, Clamp	
28	8	1025776	Stud	
29	2	1027395	Plate, Standoff	
30	4	1046170/001	Clamp, Hose	
31	1	1072602	Tubing, Free Lift Cylinder	
32	1	1046192	Fitting, Straight	R
33	2	1048147	Stud, Hose Sheave	
34	2	1050681	Valve, Flow Control, Main Lift Cylinder	R
35	4	1050997	Plate, Mounting, Clamp	
36	1	1051008	Plate, Mounting, Clamp	
37	2	1051917	Shim, Spacer	
38	1	1051918	Guard, Hose and Cable	
39	2	1051964/	Hose Assembly, Auxiliary, Over-the-Mast	A
40	1	1067021/	Hose Assembly, Lift, Over-the-Mast, Cold Storage	A
	1	1080942/	Hose Assembly, Lift, Over-the-Mast	A
41	1	1081010/060	Cable Assembly, Over-the-Mast (142 to 146 in. OACH), Model 7420	
	1	1081010/065	Cable Assembly, Over-the-Mast (147 to 151 in. OACH), Model 7420	

A= Suffix = OACH minus 86 in.
R= Recommended Spare

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List 7-13: Hose and Cable Installation, Mast, Model 7420 (Sheet 2 of 2)

FIGURE 7-13 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1081010/070	Cable Assembly, Over-the-Mast (152 to 156 in. OACH), Model 7420	
	1	1081010/075	Cable Assembly, Over-the-Mast (157 to 161 in. OACH), Model 7420	
	1	1081010/080	Cable Assembly, Over-the-Mast (162 to 166 in. OACH), Model 7420	
	1	1081010/085	Cable Assembly, Over-the-Mast (167 to 171 in. OACH), Model 7420	
	1	1081010/090	Cable Assembly, Over-the-Mast (172 to 174 in. OACH), Model 7420	
	1	1080989/101	Cable Assembly, Video Over-the-Mast (142 to 146 in. OACH), Model 7420	
	1	1080989/102	Cable Assembly, Video Over-the-Mast (147 to 151 in. OACH), Model 7420	
	1	1080989/103	Cable Assembly, Video Over-the-Mast (152 to 156 in. OACH), Model 7420	
	1	1080989/104	Cable Assembly, Video Over-the-Mast (157 to 161 in. OACH), Model 7420	
	1	1080989/105	Cable Assembly, Video Over-the-Mast (162 to 166 in. OACH), Model 7420	
	1	1080989/106	Cable Assembly, Video Over-the-Mast (167 to 170 in. OACH), Model 7420	
	1	1080989/107	Cable Assembly, Video Over-the-Mast (171 to 174 in. OACH), Model 7420	
42	2	1052027	Bracket, Clamp, Hose	
43	2	1052273	Plate, Mounting, Clamp	
44	4	1052274	Plate, Mounting, Clamp	
45	4	1052528	Stud	
46	4	1052529	Stud	
47	1	1053021	Bracket	
48	1	1053558	Plate, Mounting, Clamp	
49	1	1053560	Plate, Mounting, Clamp	
50	7	1058978	Retainer, Hose	
51	AR	870-673	Guard, Cable	
52	1	1068128	Shim, Spacer, Hose Sheave	
53	1	792-529	Elbow, 45 Degree (Not Shown)	
54	2	1093139/	Hose Assembly	A

A= Suffix = OACH minus 86 in.
R= Recommended Spare

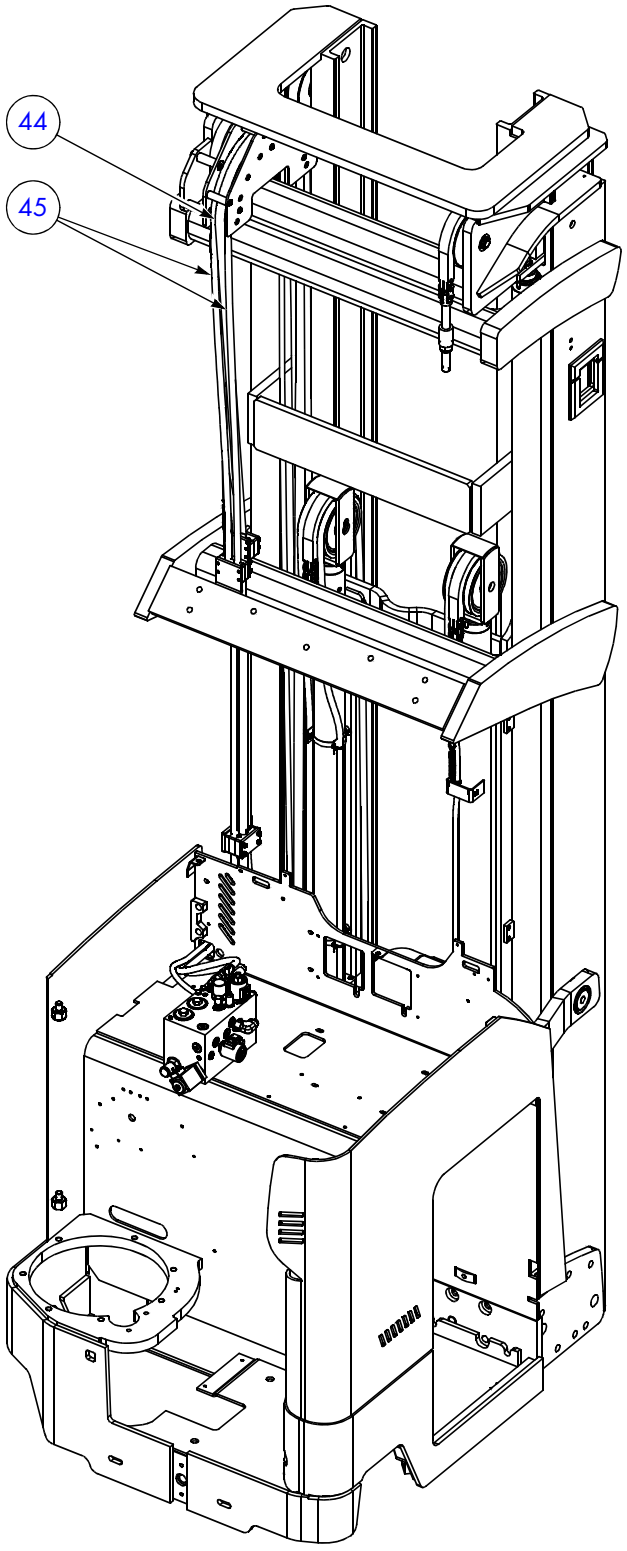
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Hose and Cable Installation, Mast, Model 7440

Figure 7-14a: Hose and Cable Installation, Mast, Model 7440

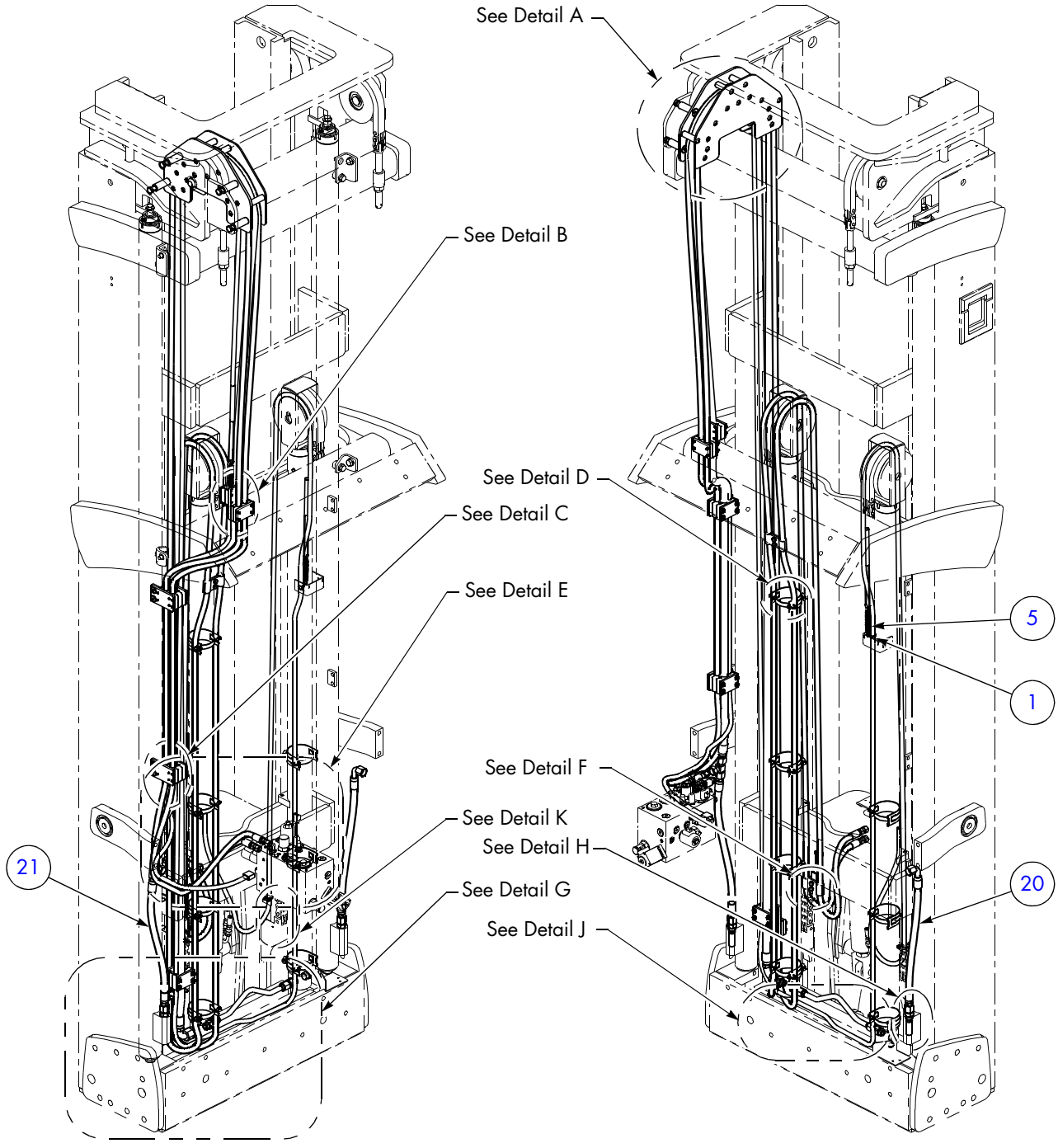


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Hose and Cable Installation, Mast, Model 7440

Figure 7-14b: Hose and Cable Installation, Mast, Model 7440

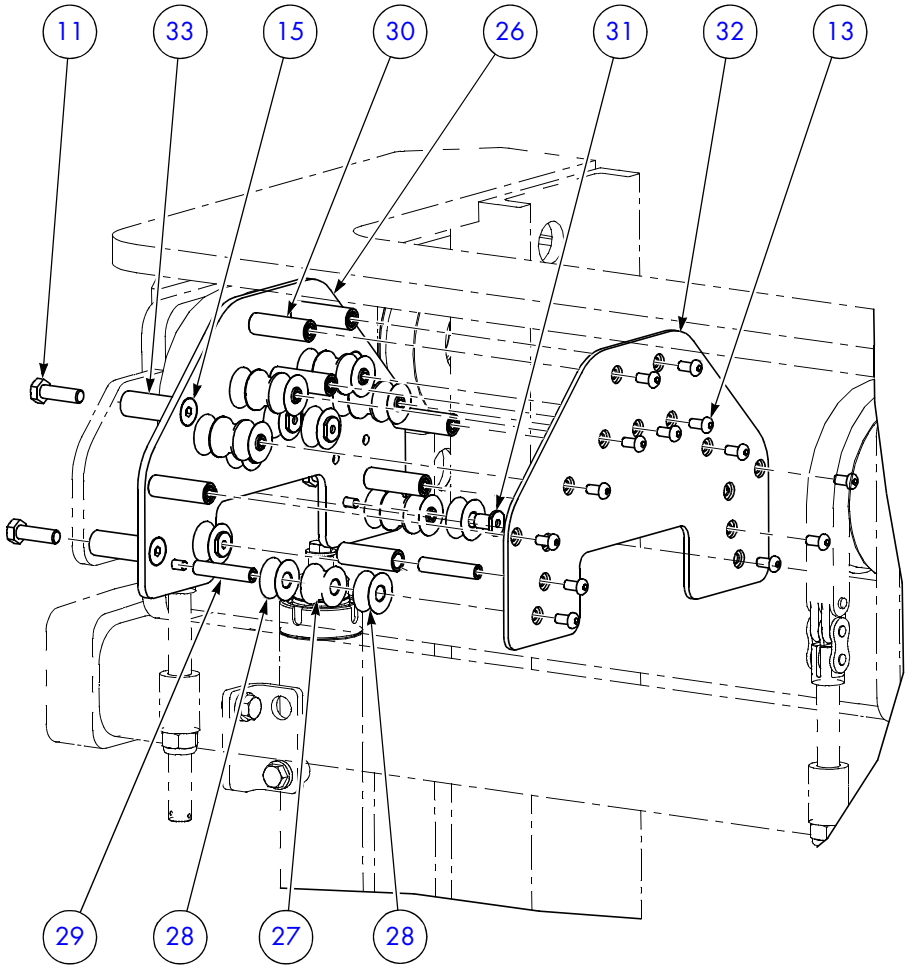


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Hose and Cable Installation, Mast, Model 7440

Figure 7-14c: Hose and Cable Installation, Mast, Model 7440



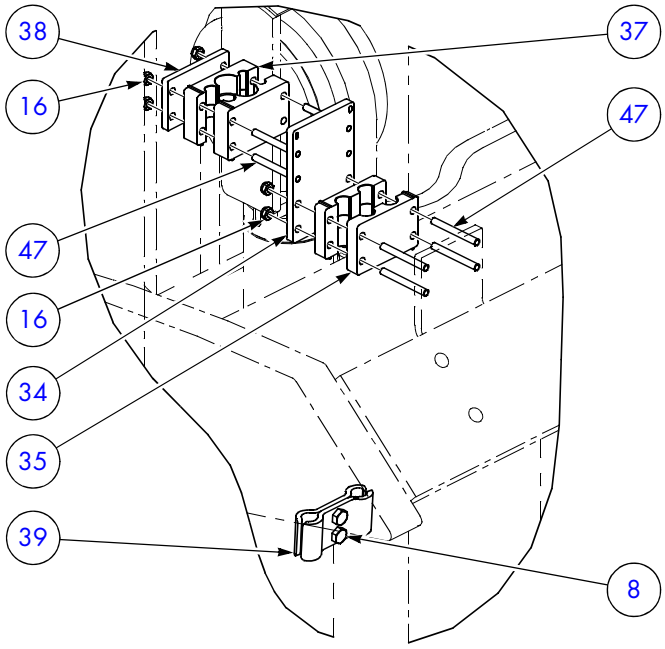
DETAIL A

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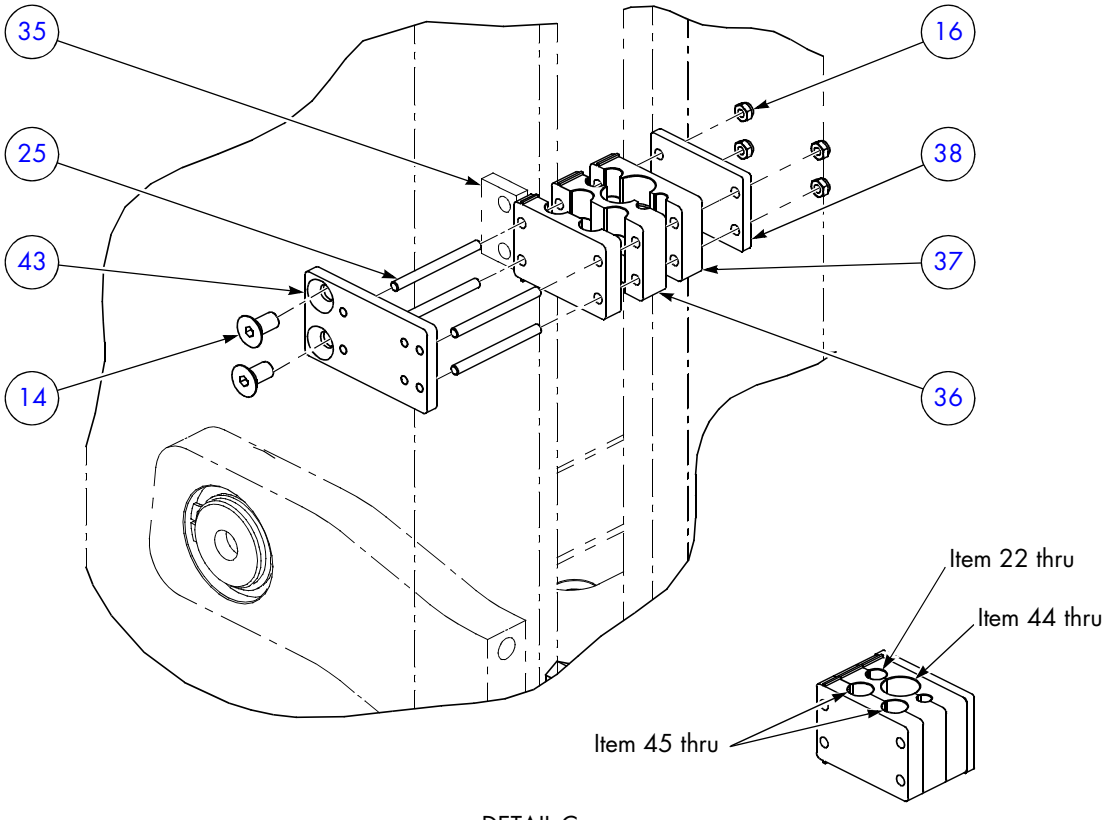
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Hose and Cable Installation, Mast, Model 7440

Figure 7-14d: Hose and Cable Installation, Mast, Model 7440



DETAIL B



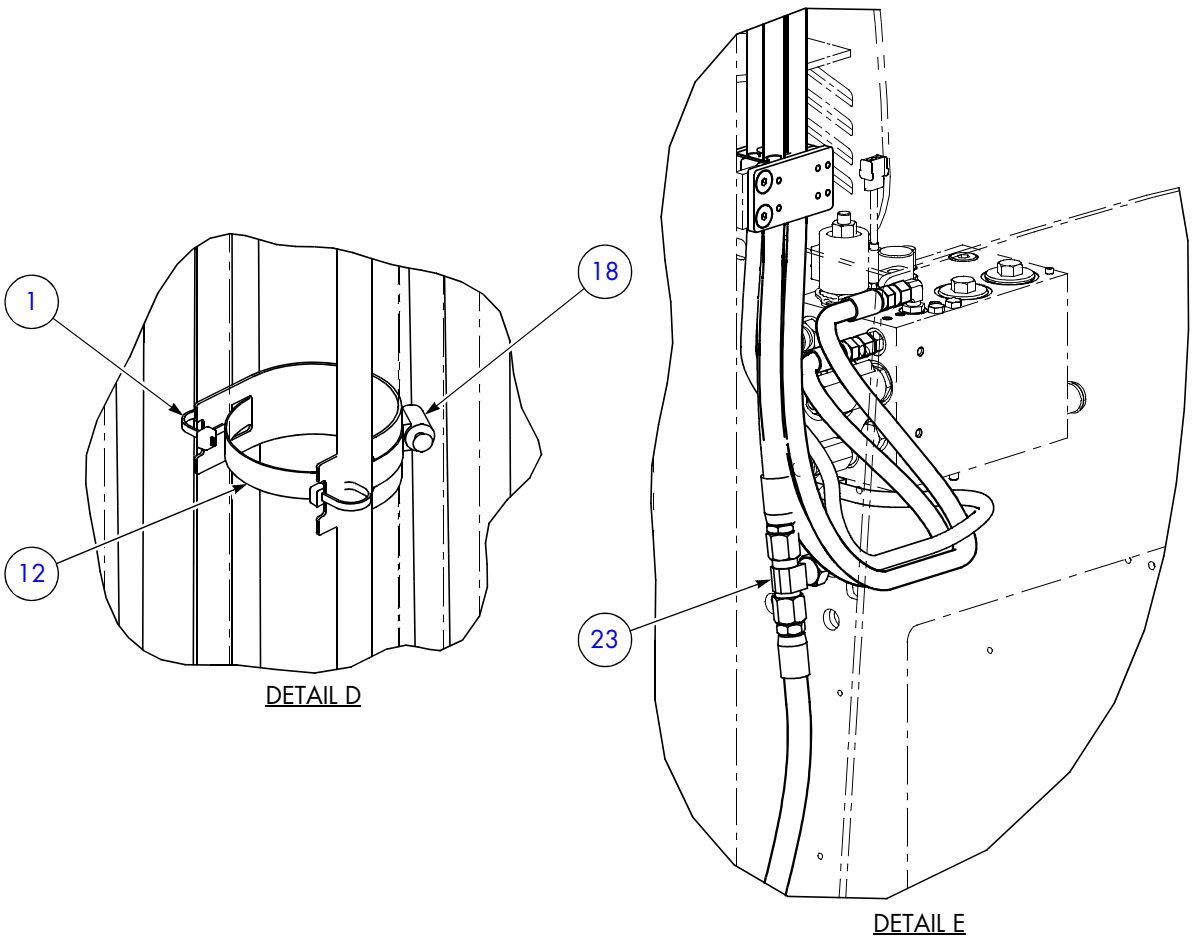
DETAIL C

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Hose and Cable Installation, Mast, Model 7440

Figure 7-14e: Hose and Cable Installation, Mast, Model 7440

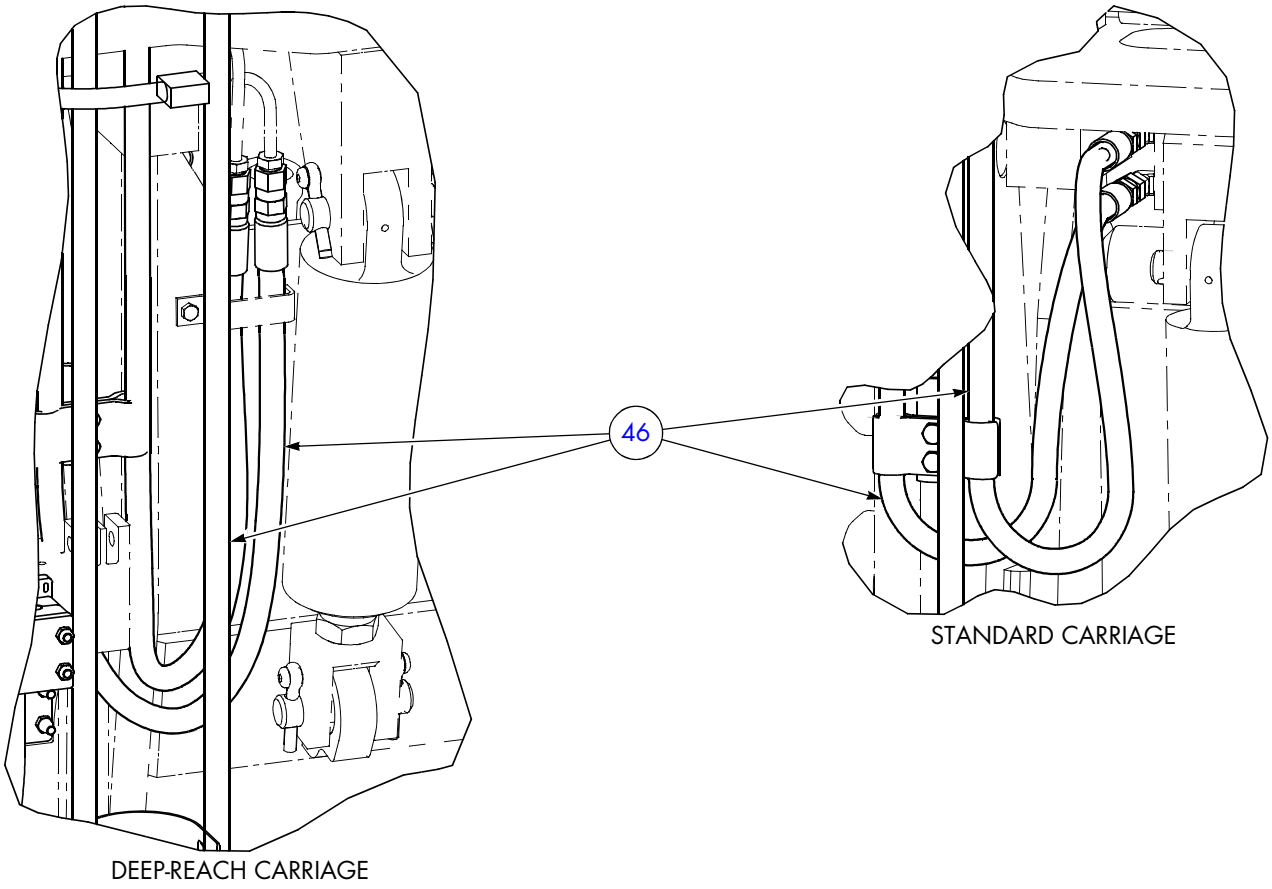


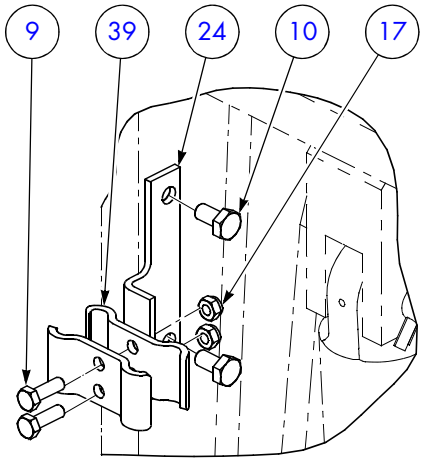
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Hose and Cable Installation, Mast, Model 7440

Figure 7-14f: Hose and Cable Installation, Mast, Model 7440



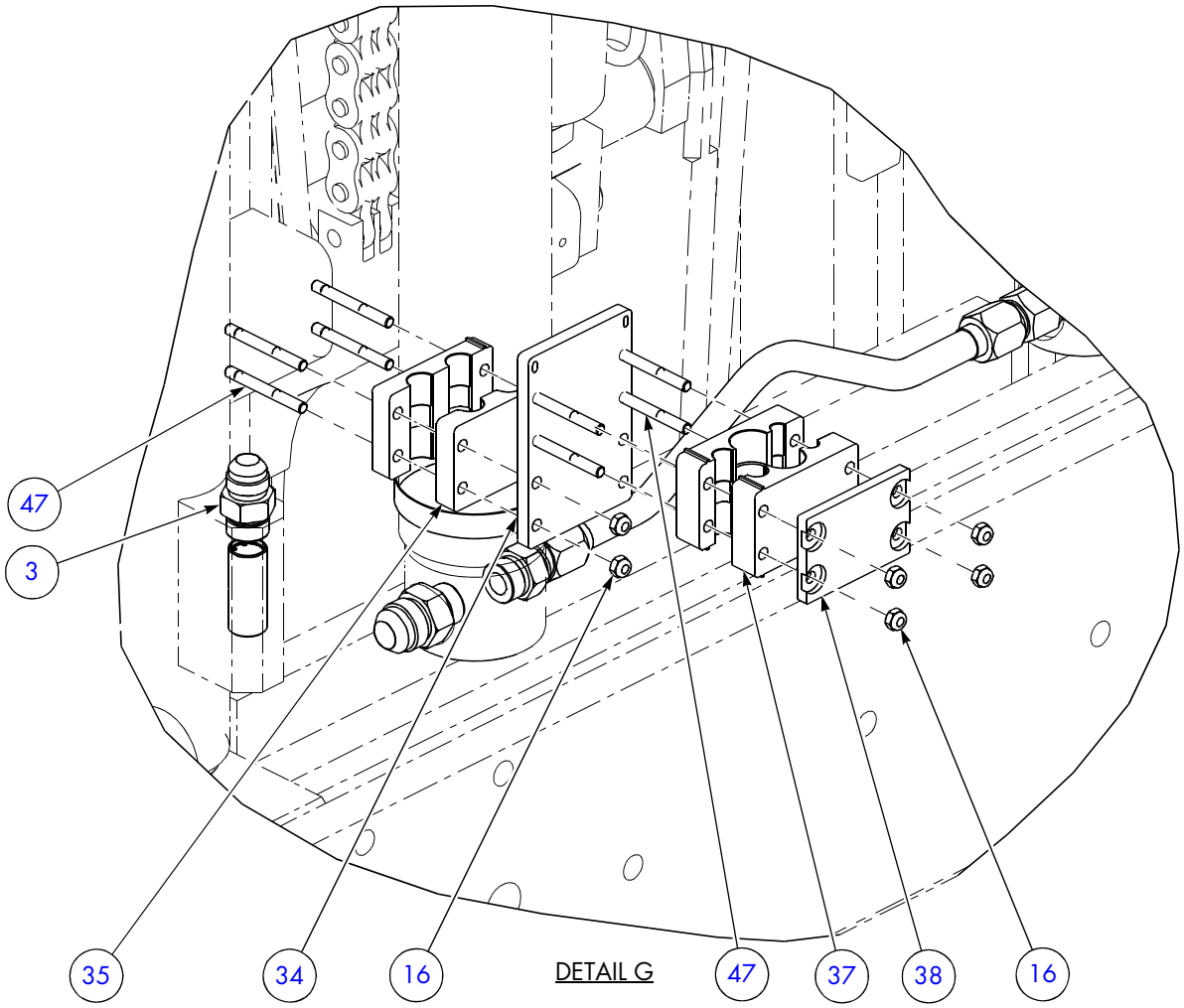


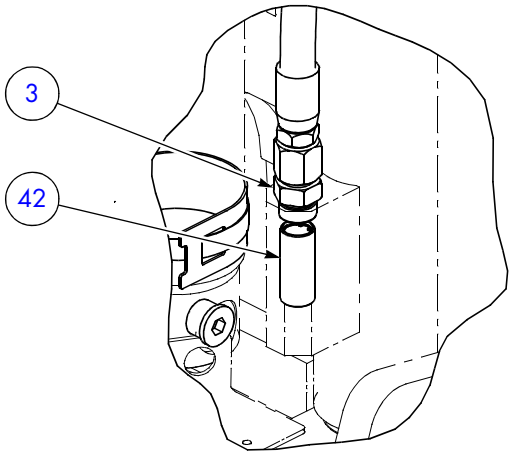
1076968_C14, 1076968_C13, 1076968_C12 SHT 6 OF 9

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Hose and Cable Installation, Mast, Model 7440

Figure 7-14g: Hose and Cable Installation, Mast, Model 7440





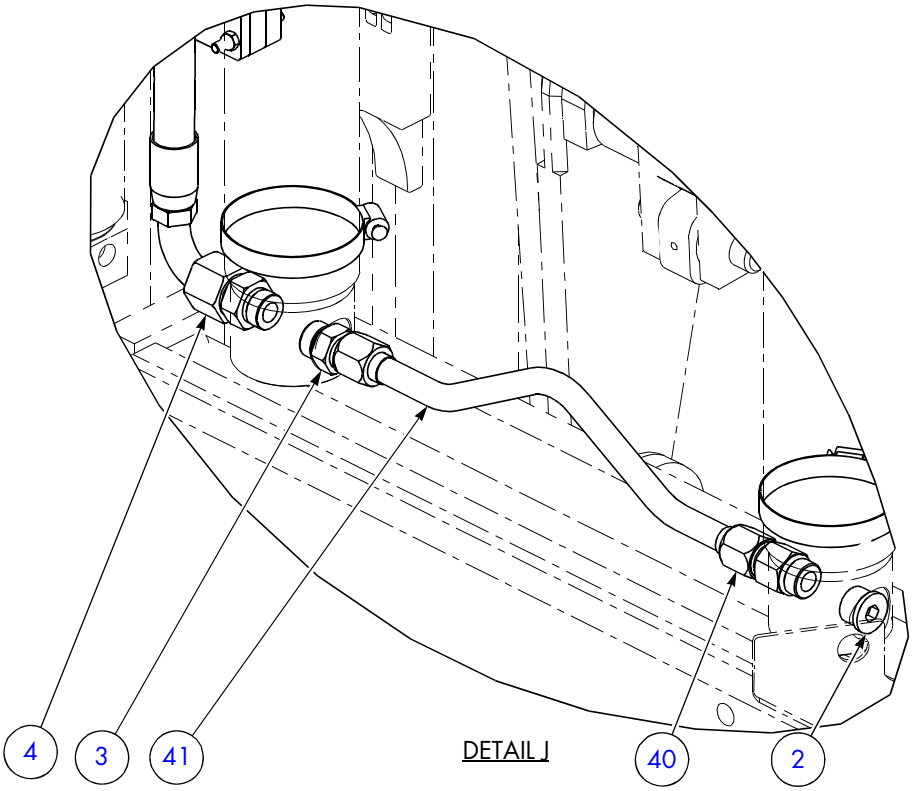
DETAIL H

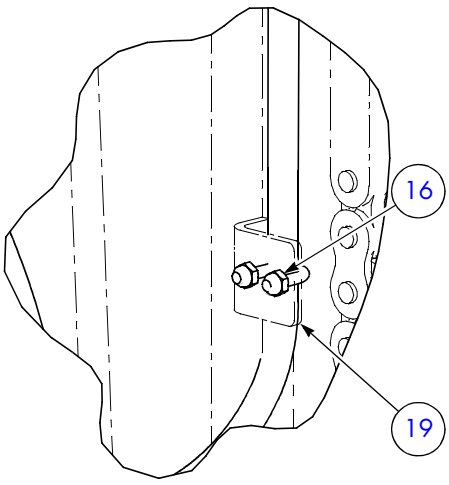
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Hose and Cable Installation, Mast, Model 7440

Figure 7-14h: Hose and Cable Installation, Mast, Model 7440





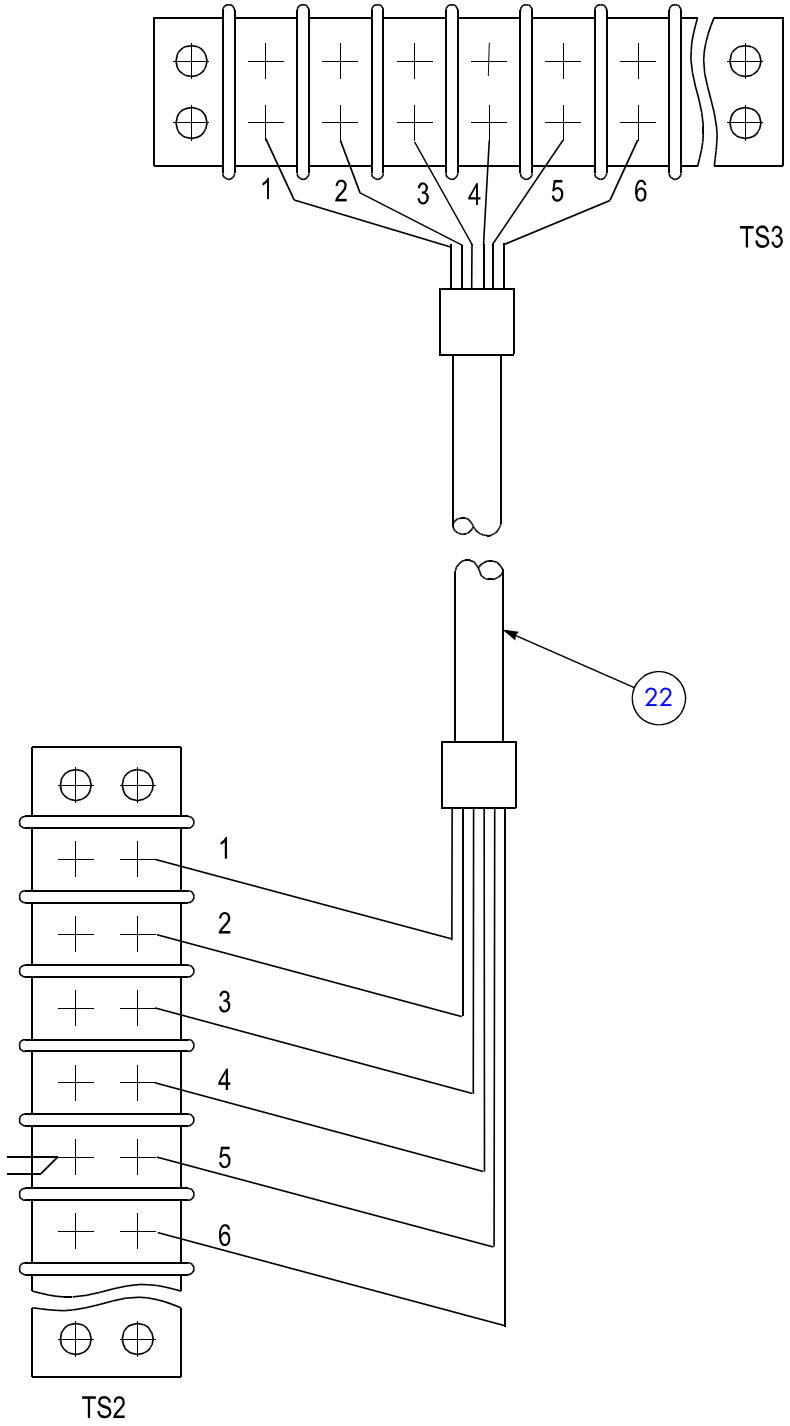
DETAIL K

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Hose and Cable Installation, Mast, Model 7440

Figure 7-14i: Hose and Cable Installation, Mast, Model 7440



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List 7-14: Hose and Cable Installation, Mast, Model 7440 (Sheet 1 of 2)

FIGURE 7-14 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-029	Cable Tie	
2	1	792-216/007	Fitting, Plug, #12	
3	3	792-376	Fitting, Straight, Main Lift Cylinder, Model 7440	
4	1	792-402	Fitting, Straight, Free Lift Cylinder, Model 7440	
5	2	830-052	Spring, Tension	R
8	2	5-001-007	Screw	
9	2	5-001-009	Screw	
10	2	5-001-015	Screw	
11	4	5-001-025	Screw	
12	7	309732-000	Clamp, Hose	
13	24	5-003-017	Screw	
14	4	5-004-026	Screw	
15	4	5-004-031	Screw	
16	26	5-016-014	Nut, Lock	
17	2	5-016-015	Nut, Lock	
18	7	1058978	Retainer, Hose	
19	1	223-001-550	Clamp, U-Bolt	
20	1	1001288/068	Hose Assembly, Tractor to Main Lift Cylinder, Right-Hand, Model 7440	
21	1	1001288/069	Hose Assembly, Tractor to Main Lift Cylinder, Left-Hand, Model 7440	
22	1	1053173/060	Cable Assembly, Over-the-Mast (142 to 146 in. OACH), Model 7440	
	1	1053173/065	Cable Assembly, Over-the-Mast (147 to 151 in. OACH), Model 7440	
	1	1053173/070	Cable Assembly, Over-the-Mast (152 to 156 in. OACH), Model 7440	
	1	1053173/075	Cable Assembly, Over-the-Mast (157 to 161 in. OACH), Model 7440	
	1	1053173/080	Cable Assembly, Over-the-Mast (162 to 166 in. OACH), Model 7440	
	1	1053173/085	Cable Assembly, Over-the-Mast (167 to 171 in. OACH), Model 7440	
	1	1053173/090	Cable Assembly, Over-the-Mast (172 to 176 in. OACH), Model 7440	
	1	1053173/095	Cable Assembly, Over-the-Mast (177 to 181 in. OACH), Model 7440	
	1	1053173/098	Cable Assembly, Over-the-Mast (182 to 184 in. OACH), Model 7440	
	1	1080989/001	Cable Assembly, Video Over-the-Mast (142 to 146 in. OACH), Model 7440	
	1	1080989/002	Cable Assembly, Video Over-the-Mast (147 to 151 in. OACH), Model 7440	
	1	1080989/003	Cable Assembly, Video Over-the-Mast (152 to 156 in. OACH), Model 7440	

A= Suffix = OACH minus 86 in.
B= 18 inch Battery Compartment.
R= Recommended Spare

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List 7-14: Hose and Cable Installation, Mast, Model 7440 (Sheet 2 of 2)

FIGURE 7-14 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
	1	1080989/004	Cable Assembly, Video Over-the-Mast (157 to 161 in. OACH), Model 7440	
	1	1080989/005	Cable Assembly, Video Over-the-Mast (162 to 166 in. OACH), Model 7440	
	1	1080989/006	Cable Assembly, Video Over-the-Mast (167 to 171 in. OACH), Model 7440	
	1	1080989/007	Cable Assembly, Video Over-the-Mast (172 to 176 in. OACH), Model 7440	
	1	1080989/008	Cable Assembly, Video Over-the-Mast (177 to 181 in. OACH), Model 7440	
	1	1080989/009	Cable Assembly, Video Over-the-Mast (182 to 184 in. OACH), Model 7440	
23	1	1013456/005	Fitting, Tee, Supply at Bulkhead	
24	1	1053021	Bracket	
25	8	1025776	Stud	
26	1	1044351	Plate, Base, Hose Take-Up	
27	17	1044352	Pulley, 0.66 in. W	
28	6	1044353	Pulley, 0.99 in. W	
29	13	1044401	Shaft, Pulley, Hose	
30	7	1044402/002	Shim, Spacer	
31	5	1044424	Shaft, Pulley	
32	1	1044429	Plate, Cover, Hose Take-Up	
33	4	1044896	Spacer, Mounting	
34	2	1067329	Plate, Mounting, Clamp	
35	6	1045836	Plate, Mounting, Clamp, Hose	
36	2	1045837	Plate, Mounting, Clamp, Hose	
37	6	1045838	Plate, Mounting, Clamp, Hose	
38	4	1045871	Plate, Clamp, Hose	
39	4	1046170/002	Clamp, Hose	
40	1	1046192	Fitting, Straight	
41	1	1072602	Tubing, Free Lift Cylinders, Models 7420 and 7440	
42	2	1050681	Valve, Flow Control, Main Lift Cylinder, Models 7420 and 7440	R
43	2	1052027	Bracket, Clamp, Hose	
44	1	1067514/	Hose Assembly, Lift, Over-the-Mast, Model 7440	A
45	2	1052272/	Hose Assembly, Auxiliary, Over-the-Mast, Model 7440	A
46	AR	870-673	Guard, Cable	
47	16	1052528	Stud	
48	1	792-529	Elbow, 45 Degree Swivel (Not Shown)	B

A= Suffix = OACH minus 86 in.
B= 18 inch Battery Compartment.
R= Recommended Spare

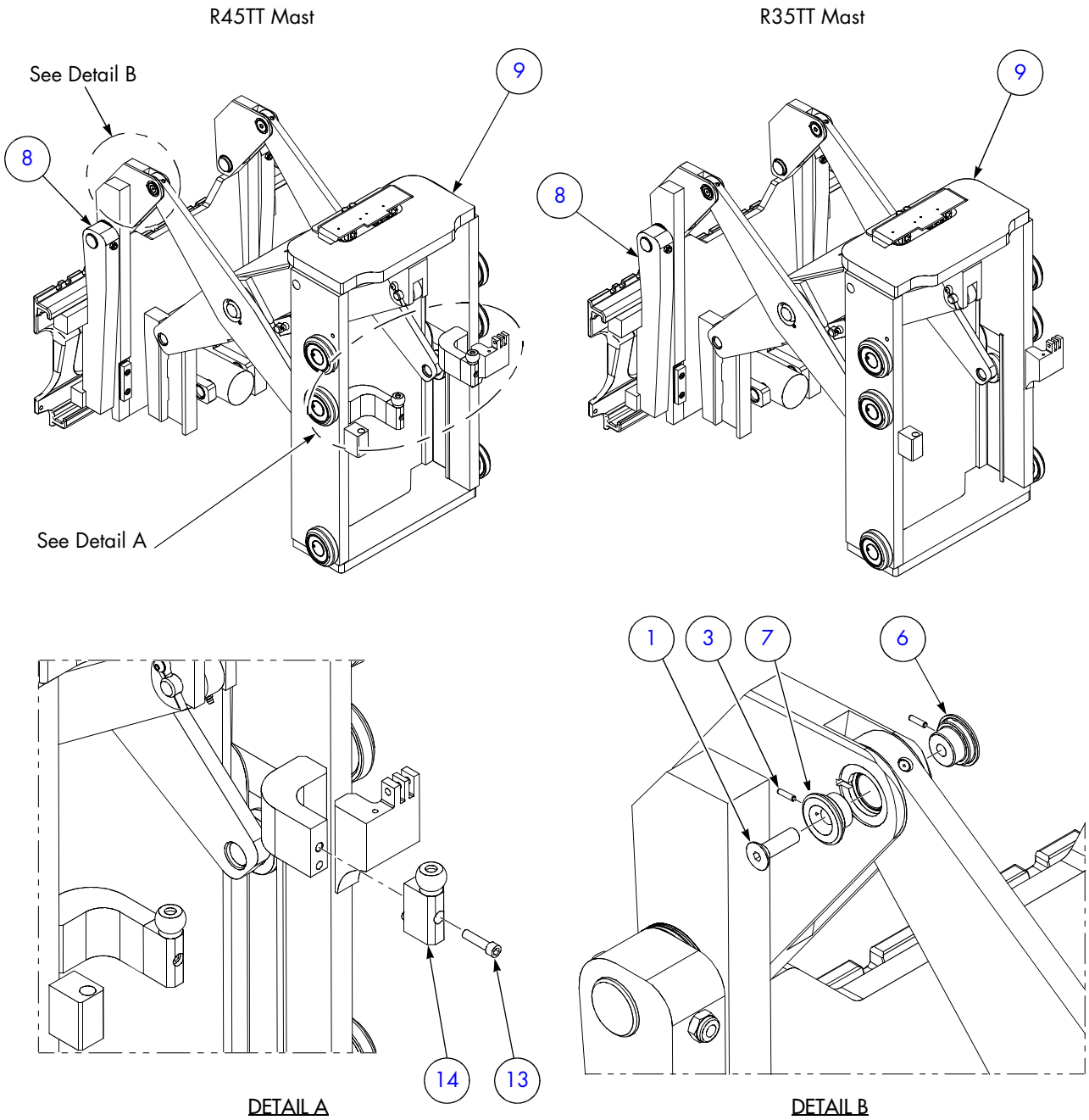
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Carriage Installation, R35TT and R45TT

Figure 7-15a: Carriage Installation, R35TT and R45TT



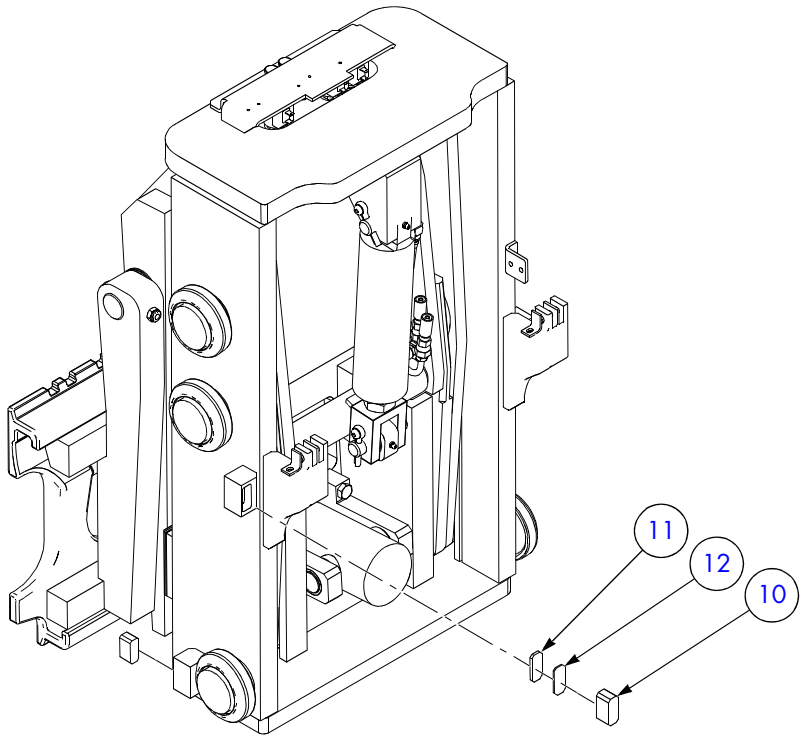
R1020670_A1 R1020670_A1A R1020670_A2 R1020670_A3 SHT 1 OF 2

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Carriage Installation, R35TT and R45TT

Figure 7-15b: Carriage Installation, R35TT and R45TT

Models 7420 and 7440



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List 7-15: Carriage Installation, R35TT and R45TT

FIGURE 7-15 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	714-142	Screw	
3	2	810-722	Pin, Spiral	
6	2	828-006-675	Shaft, Half	
7	2	828-006-677	Shaft, Half	
8	1	Ref.	Carriage Assembly, Tilt or Tilt and Sideshift (See Figure 7-23 and Figure 7-24)	
9	1	Ref.	Carriage Assembly, Reach (See Figure 7-16a.)	
10	4	1009451	Pad, Kickback	B
11	AR	1013258	Shim, Spacer, Kickback, Inner Telescopic	B
12	AR	1029413	Shim, Spacer, Kickback, Inner Telescopic	B
13	2	714-147	Screw	
14	2	Ref.	Stop Assembly (See Figure 7-57.)	C

A= R45TT only
B= Model 7420 and 7440 only
C= R35TT only

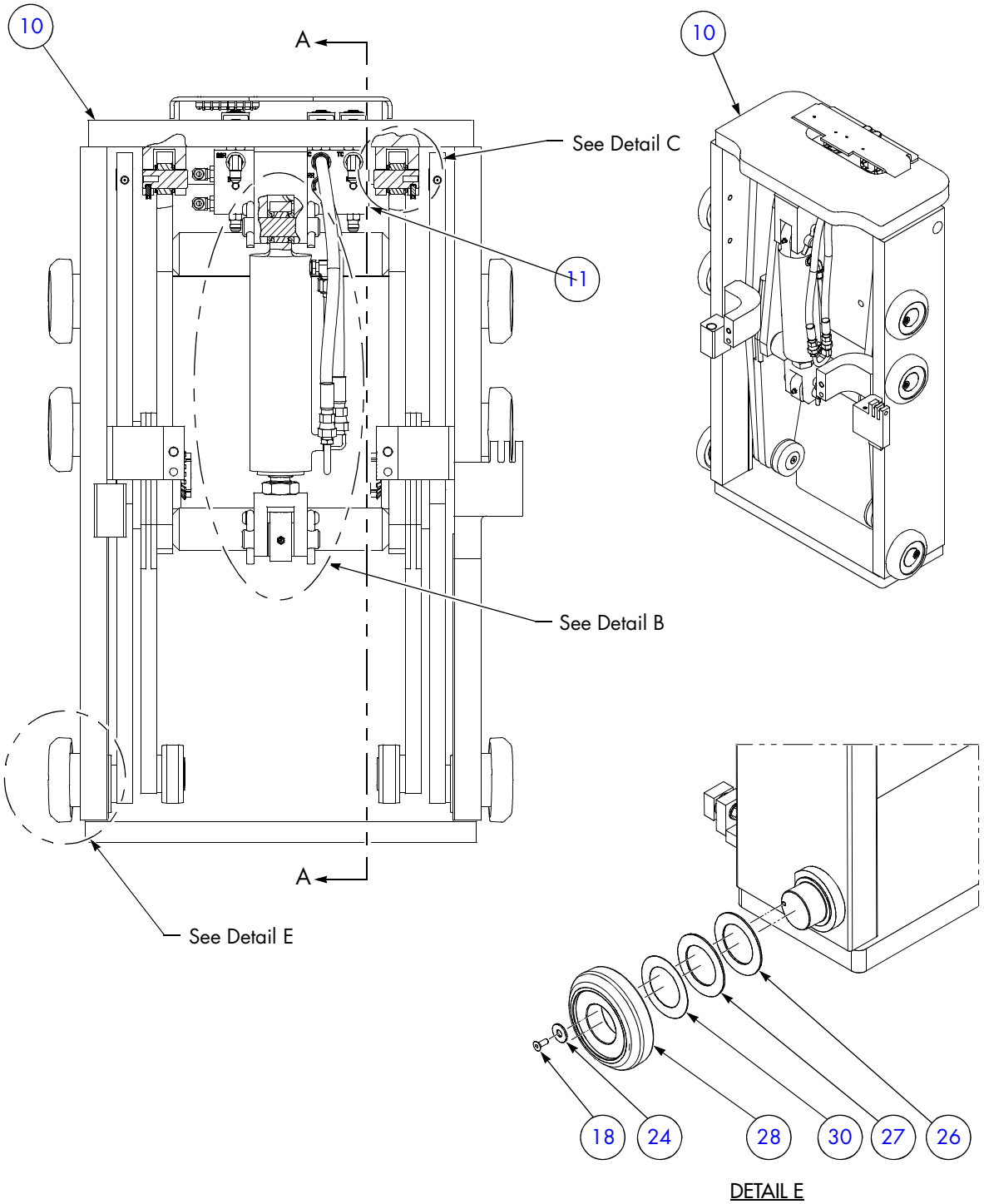
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Reach Carriage Assembly, R35TT and R45TT

Figure 7-16a: Reach Carriage Assembly, R35TT and R45TT

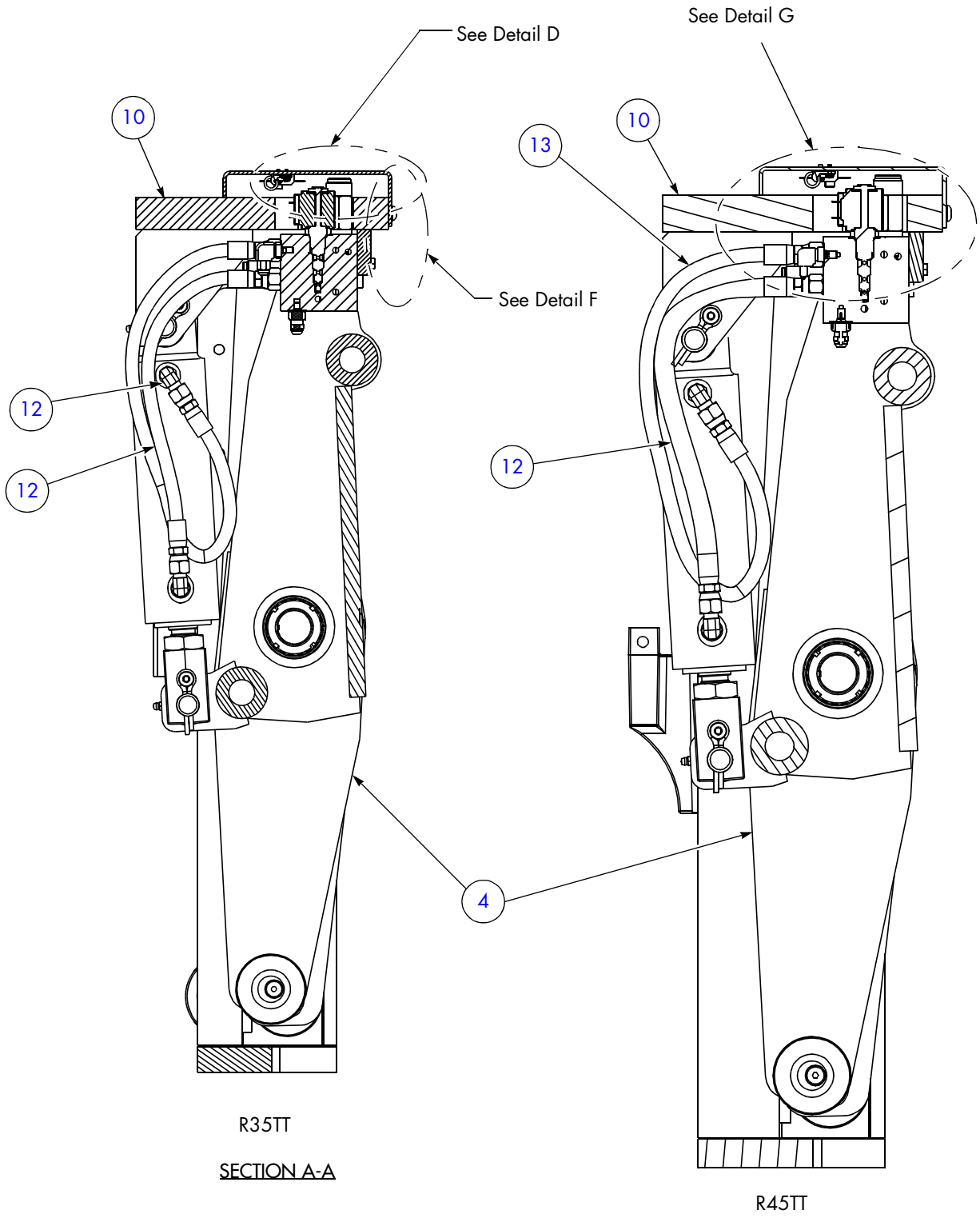


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Reach Carriage Assembly, R35TT and R45TT

Figure 7-16b: Reach Carriage Assembly, R35TT and R45TT

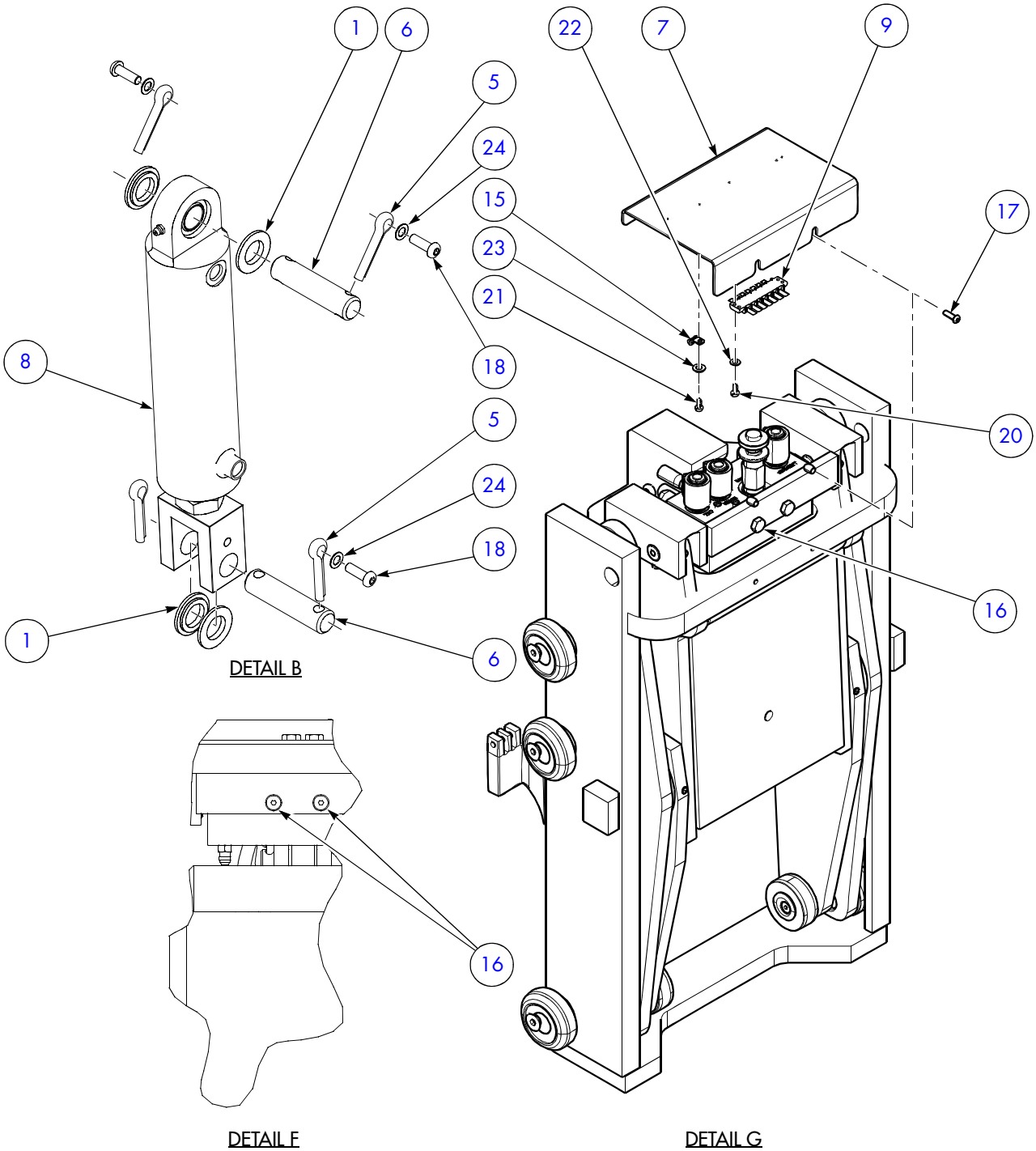


1068250_D 1073331_B SHT 2 OF 4

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Reach Carriage Assembly, R35TT and R45TT

Figure 7-16c: Reach Carriage Assembly, R35TT and R45TT

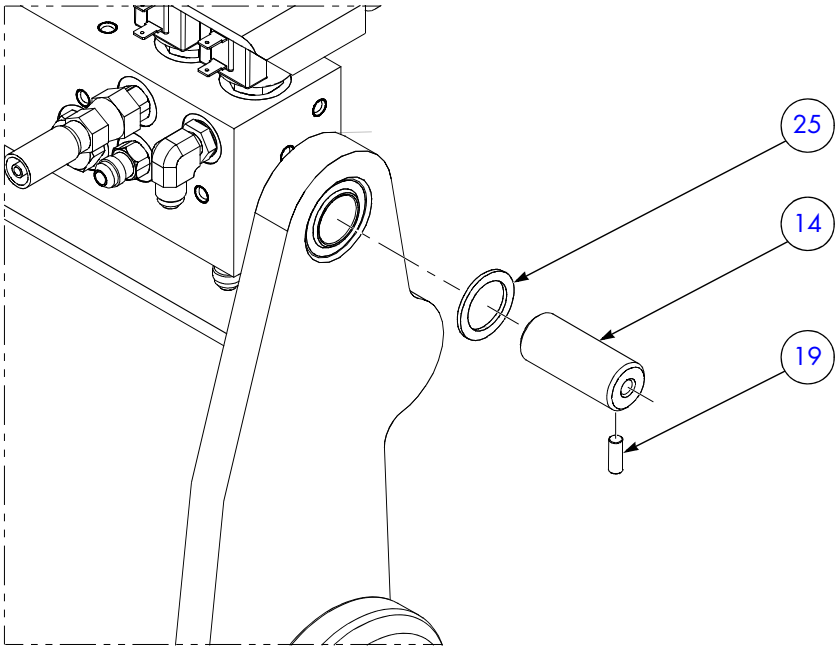


R1020417_B6 1020417_B7 SHT 3 OF 4

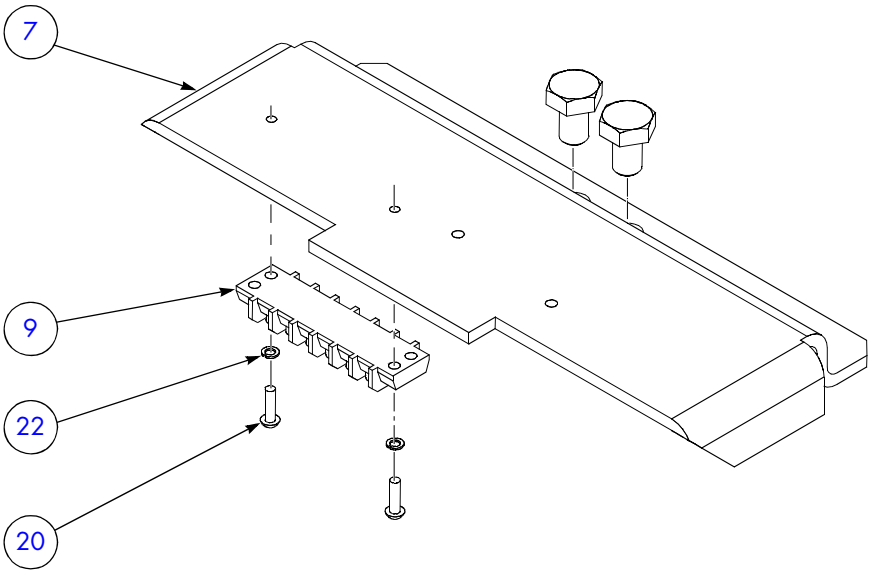
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Reach Carriage Assembly, R35TT and R45TT

Figure 7-16d: Reach Carriage Assembly, R35TT and R45TT



DETAIL C



DETAIL D

R1020417_B6 1020417_B7 SHT 4 OF 4

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List 7-16: Reach Carriage Assembly, R35TT and R45TT

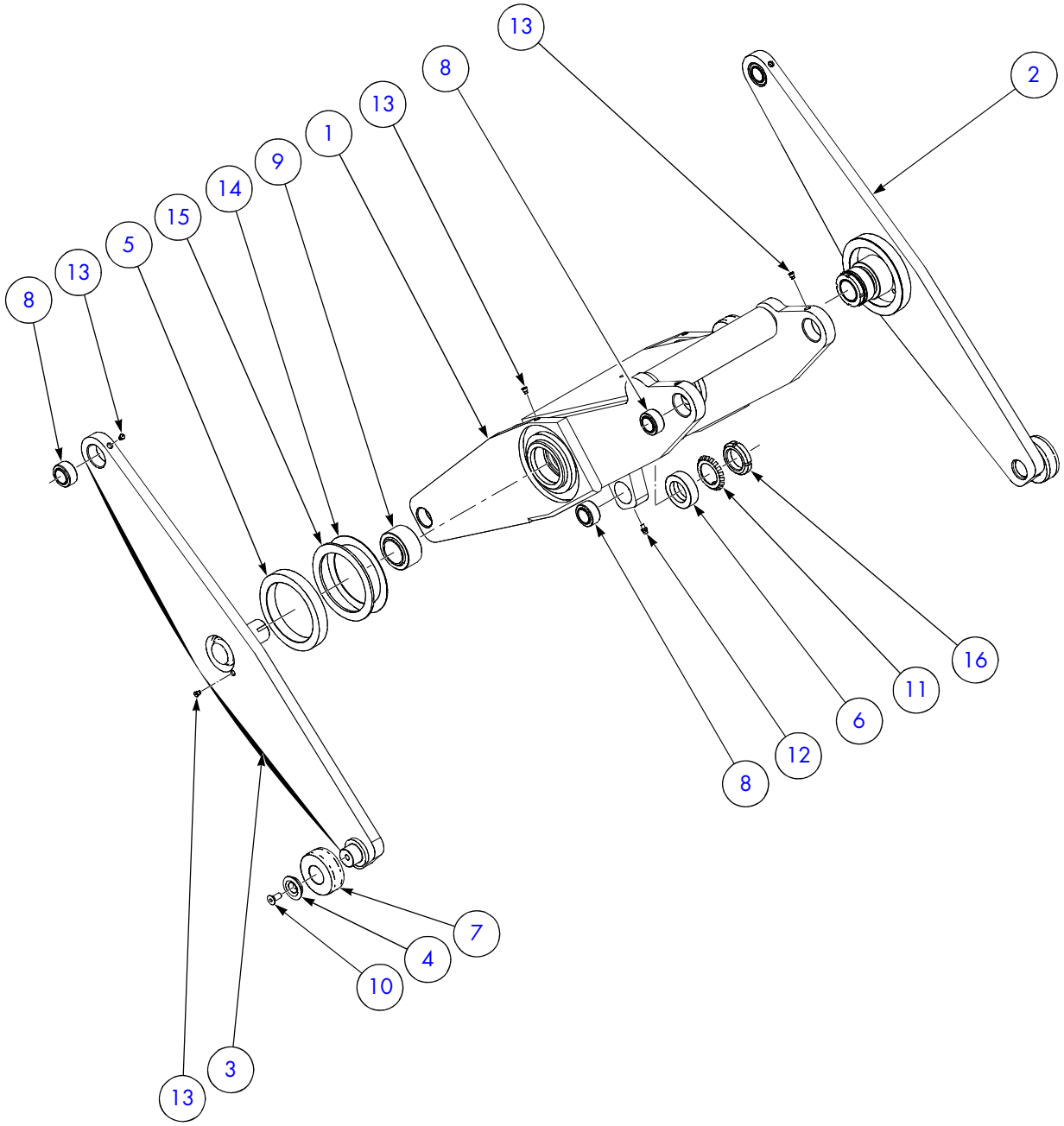
FIGURE 7-16 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	1004672	Shim, Bearing	
4	1	1020250	Arm Assembly, Scissor, R35TT and R45TT (See Figure 7-17.)	
5	4	1023415	Pin, Cotter	
6	2	1023443	Pin, Cylinder Mounting	
7	1	1049017	Plate, Terminal Mounting	
8	1	1090408	Cylinder Assembly, Single Reach (See Figure 6-30.)	
9	1	1069558	Terminal Strip	
10	1	1068247	Carriage, Machined, Reach, R35TT	
	1	1079664	Carriage, Machined, Reach, R45TT	D
	1	1073330	Carriage, Machined, Reach, R45TT	E
11	1	1076512/001	Manifold Assembly, Single Reach, Tilt, Sideshift (See Figure 6-21.)	A
	1	1076512/002	Manifold Assembly, Single Reach, Tilt, No Sideshift (See Figure 6-21.)	B
12	1	1021890/004	Hose Assembly, Reach Cylinder Rod to Manifold RR, R45TT	
	1	1021890/019	Hose Assembly, Reach Cylinder Rod to Manifold RR, R35TT	
13	1	1021890/024	Hose Assembly, Reach Cylinder Cap to Manifold RC, R35TT and R45TT	
14	2	623-003-050	Pin, Inner Arm	
15	1	1-074-087/005	Clamp, Cushioned Loop	
16	2	5-001-003	Screw	C
	2	5-001-004	Screw	D, E
17	2	5-003-017	Screw	
18	4	5-003-019	Screw	
19	2	5-006-035	Screw, Set	
20	2	5-014-004	Screw	
21	1	5-014-005	Screw	
22	3	5-018-002	Washer, Flat	D, E
	3	5-018-003	Washer, Flat	C
23	1	5-019-002	Washer, Lock	
24	4	5-020-006	Washer, Flat	
25	AR	771-044	Washer, Flat	
26	AR	780-001-090	Shim (0.06 in.)	C
	AR	623-019-000	Shim (0.062 in.)	D
27	AR	780-001-091	Shim (0.03 in.)	C
	AR	623-020-000	Shim (0.0149 in.)	D
28	6	449-015	Bearing, Mast Roller	C, R
	6	449-032	Bearing, Mast Roller	D, R
29	6	5-004-008	Screw	
30	AR	850-415	Shim (0.012 in.)	C
31	AR	611-029	Cable Tie (Not Shown)	

A= With Sideshift
B= Tilt Only
C= R35TT only
D= Model 7400 R45TT only
E= Models 7420 and 7440 R45TT only
R= Recommended Spare

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Scissor Assembly, R35TT and R45TT

Figure 7-17: Scissor Assembly, R35TT and R45TT



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List 7-17: Scissor Assembly, R35TT and R45TT

FIGURE 7-17 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		1020250	Arm Assembly, Scissor, R35TT and R45TT	
1	1	1022186	Scissor, Arm, Inner, R35TT and R45TT	
2	1	1020233	Scissor, Arm, Outside Right-Hand, R35TT and R45TT	
3	1	1020235	Scissor, Arm, Outside Left-Hand, R35TT and R45TT	
4	4	623-009-300	Retainer, Bearing	
5	2	444-326	Bearing, Thrust	R
6	2	444-416	Bearing, Thrust, Open	R
7	4	448-221	Bearing, Roller	R
8	5	460-690	Bearing, Spherical	R
9	2	460-696	Bearing, Spherical	R
10	4	714-096	Screw	
11	2	772-038	Washer, Tongued	
12	1	840-060	Fitting, Grease	
13	8	841-111	Fitting, Grease	
14	2	850-401	Shim	
15	2	1092981	Spacer, Plastic	
16	2	761-878	Nut, Lock	

R= Recommended Spare

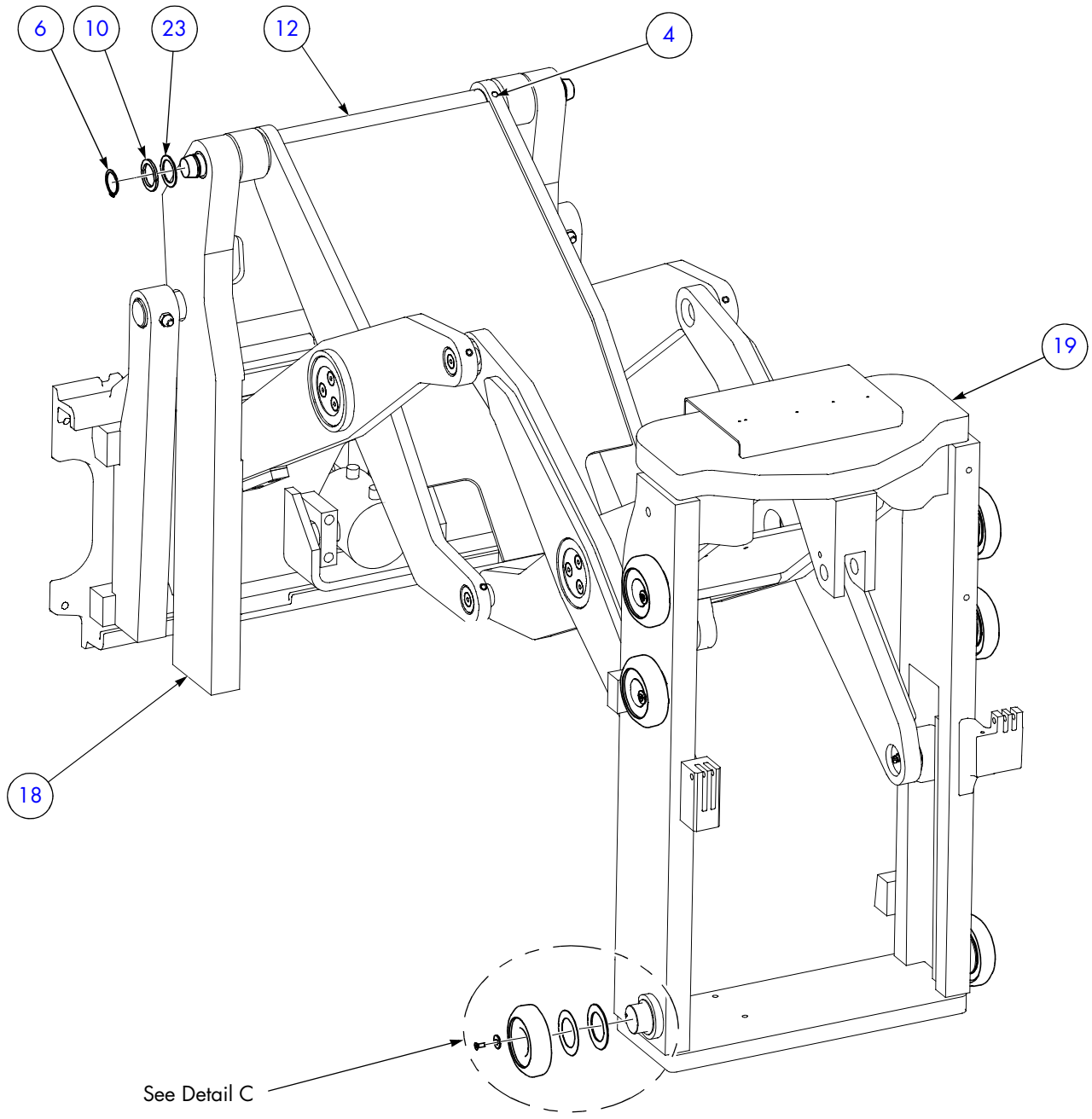
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Carriage Installation, DR32TT

Figure 7-18a: Carriage Installation, DR32TT

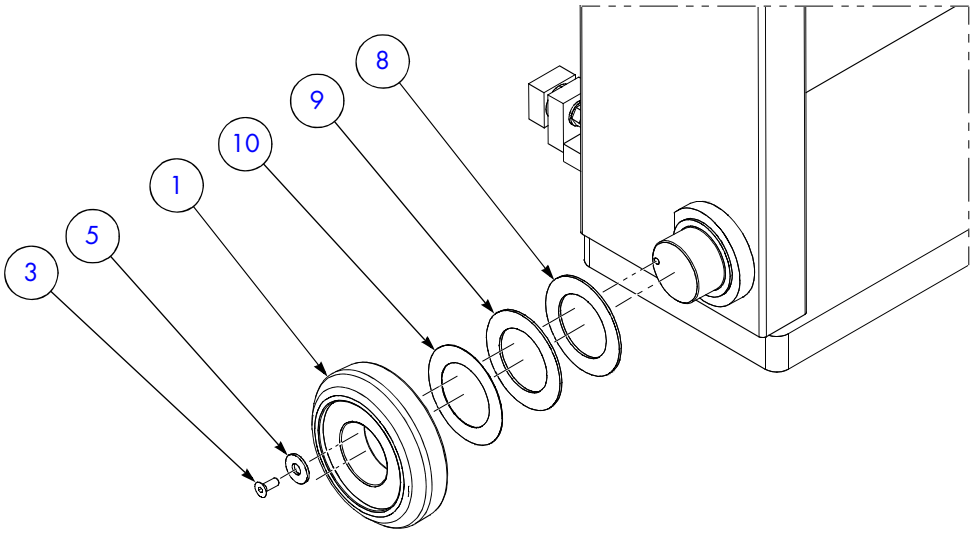


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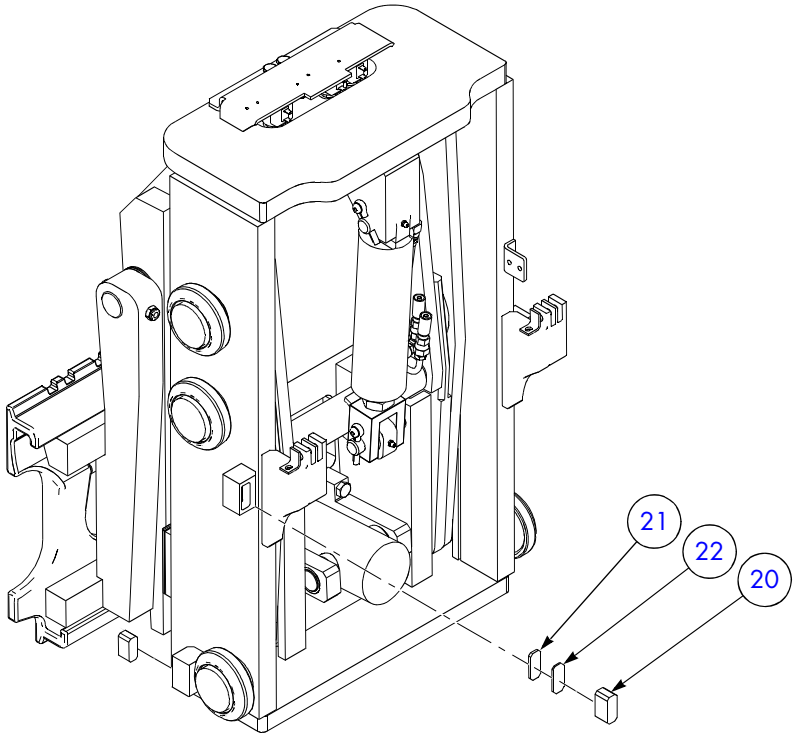
Carriage Installation, DR32TT

Figure 7-18b: Carriage Installation, DR32TT



DETAIL C

Models 7420 and 7440



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List 7-18: Carriage Installation, DR32TT

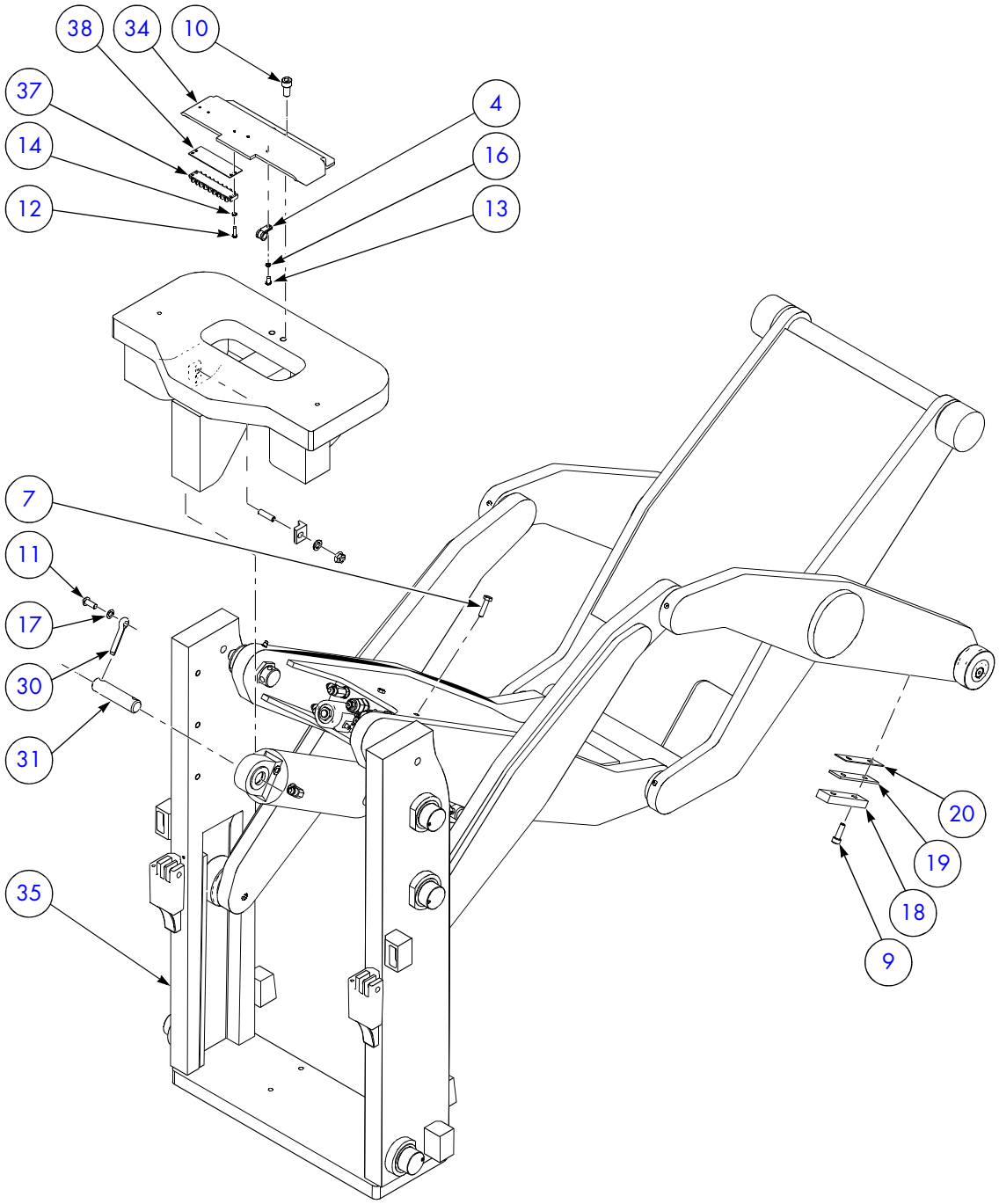
FIGURE 7-18 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	6	449-032	Bearing, Mast Roller	R
3	6	715-016	Screw	
4	1	724-520	Screw, Set	
5	6	771-116	Washer, Flat	
6	2	810-137	Ring, Snap, External	
8	AR	623-019-000	Shim (0.062 in.)	
9	AR	623-020-000	Shim (0.0149 in.)	
10	2	820-002-119	Washer	
12	1	1006240	Bar, Rod Link	
18	1	Ref.	Carriage Assembly, Tilt or Tilt and Sideshift, DR32TT (See Figure 7-26 and Figure 7-27)	
19	1	Ref.	Carriage Assembly, Deep-Reach, DR32TT (See Figure 7-19a.)	
20	4	1009451	Pad, Kickback	A
21	AR	1013258	Shim, Spacer, Kickback, Inner Telescopic	A
22	AR	1029413	Shim, Spacer, Kickback, Inner Telescopic	A
23	AR	1095663	Washer, Spacer	

A= Models 7420 and 7440 only
R= Recommended Spare

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Reach Carriage Assembly, DR32TT

Figure 7-19a: Reach Carriage Assembly, DR32TT

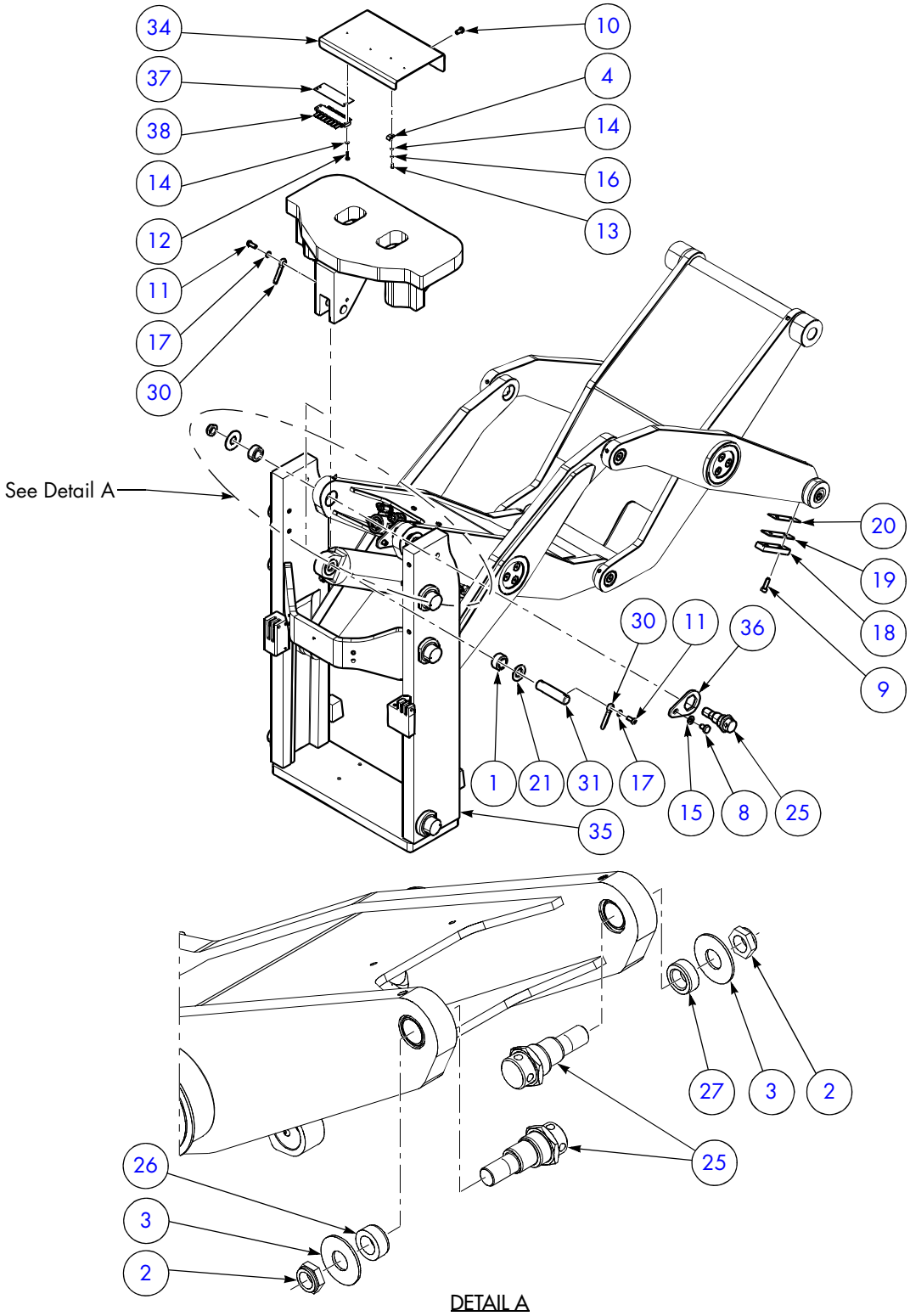


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Reach Carriage Assembly, DR32TT

Figure 7-19b: Reach Carriage Assembly, DR32TT

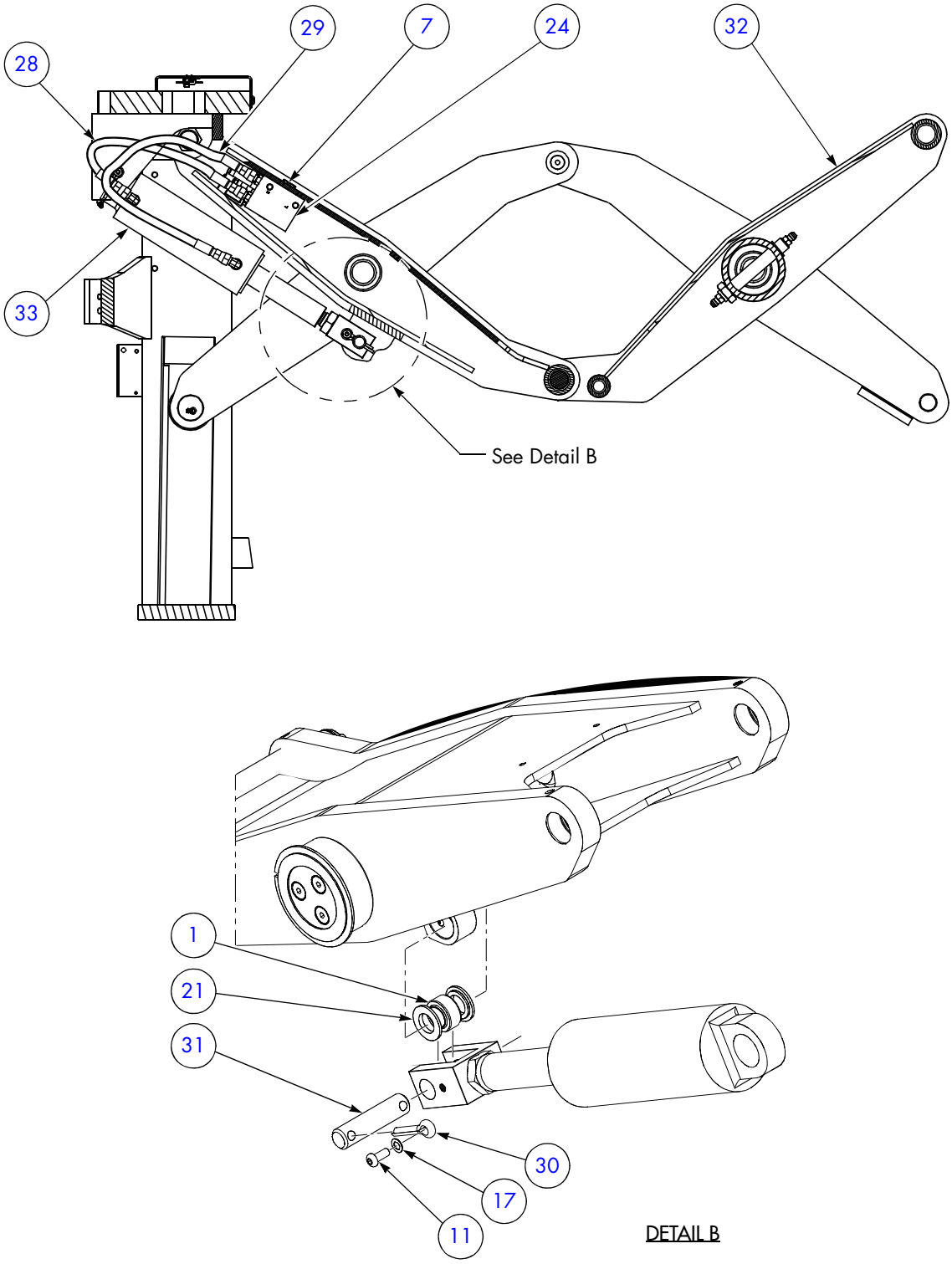


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Reach Carriage Assembly, DR32TT

Figure 7-19c: Reach Carriage Assembly, DR32TT



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List 7-19: Reach Carriage Assembly, DR32TT

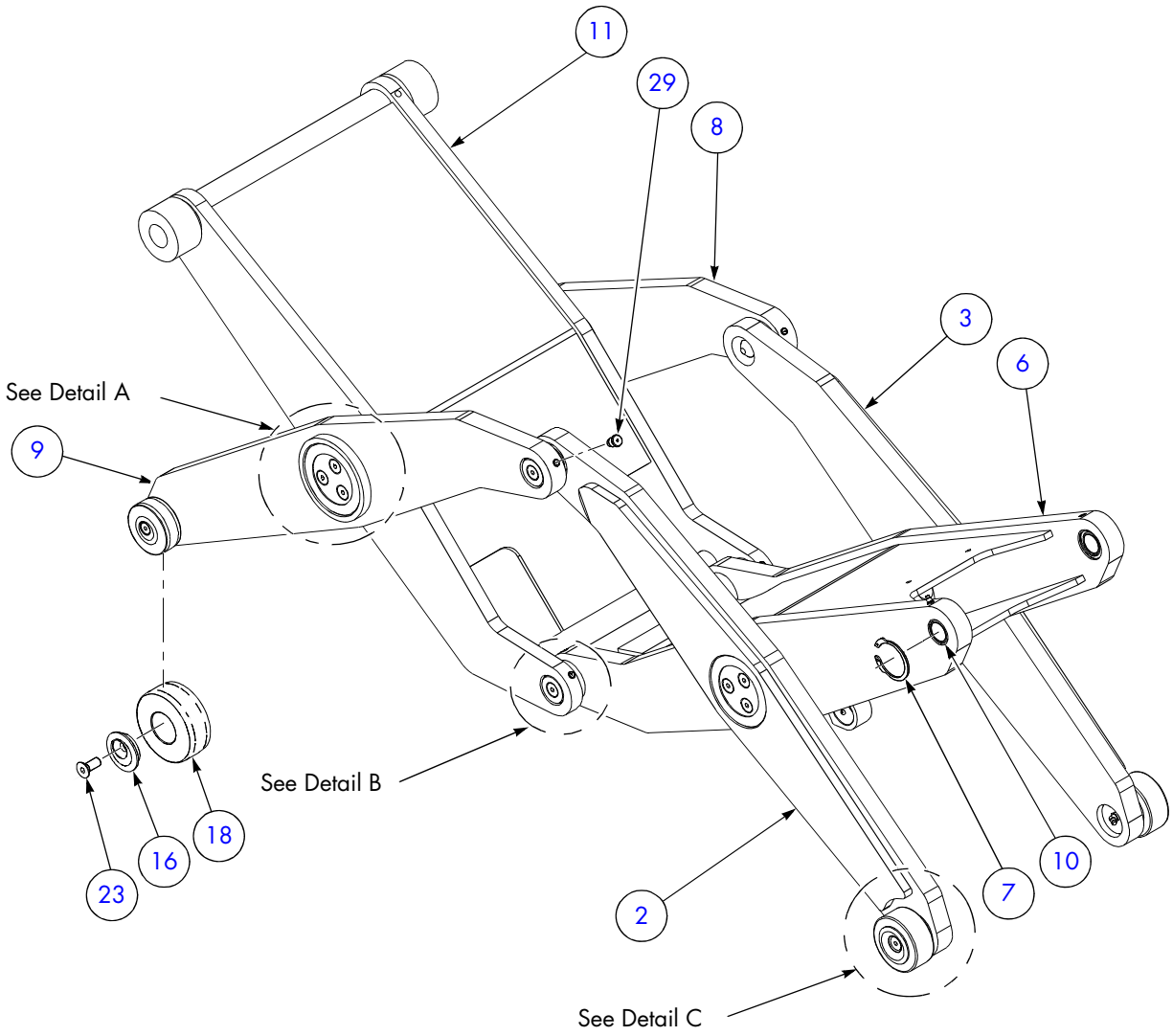
FIGURE 7-19 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	460-690	Bearing, Spherical	R
2	2	760-148	Nut, Lock	
3	2	771-128	Washer, Flat	
4	2	811-302	Clamp	
7	2	5-001-004	Screw	
8	2	5-001-014	Screw	
9	4	5-002-008	Screw	
10	2	5-003-017	Screw	
11	4	5-003-018	Screw	
12	2	5-014-004	Screw	
13	2	5-014-005	Screw	
14	4	5-018-002	Washer, Flat	
15	2	5-018-007	Washer, Flat	
16	2	5-019-002	Washer, Lock	
17	4	5-020-006	Washer, Flat	
18	2	820-001-656	Bumper, Carriage Scissors	
19	AR	820-001-657	Shim (0.0625 in. Thick)	
20	AR	820-001-658	Shim (0.125 in. Thick)	
21	4	1004672	Shim, Bearing	
24	1	1020906/001	Manifold Assembly, Deep-Reach, DR32TT (See Figure 6-22.)	
25	2	1021586	Pin, Eccentric, Fixed	
26	1	1021587/001	Spacer (0.538 in. Thick)	
27	1	1021587/002	Spacer (0.466 in. Thick)	
28	1	1021890/019	Hose Assembly, Reach Cylinder Cap to Manifold RC, DR32TT	
29	1	1021890/021	Hose Assembly, Reach Cylinder Rod to Manifold RR, DR32TT	
30	4	1023415	Pin, Cotter	
31	2	1023443	Pin, Cylinder Mounting	
32	1	1080375	Scissor Assembly, Deep-Reach, DR32TT (See Figure 7-20a.)	
33	1	1045576	Cylinder Assembly, Deep-Reach, DR32TT (See Figure 6-30.)	
34	1	1049017	Plate, Terminal Mounting	
35	1	1079685	Carriage, Machined, Deep-Reach, DR32TT	A
	1	1070739	Carriage, Machined, Deep-Reach, DR32TT	B
36	2	1069041	Retainer, Hex	
37	1	1069558	Terminal Strip	
38	1	1-030-014	Insulator, Terminal Strip	
39	AR	611-028	Cable Tie (Not Shown)	

A= Model 7400
B= Models 7420 and 7440
R= Recommended Spare

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Scissor Assembly, DR32TT

Figure 7-20a: Scissor Assembly, DR32TT

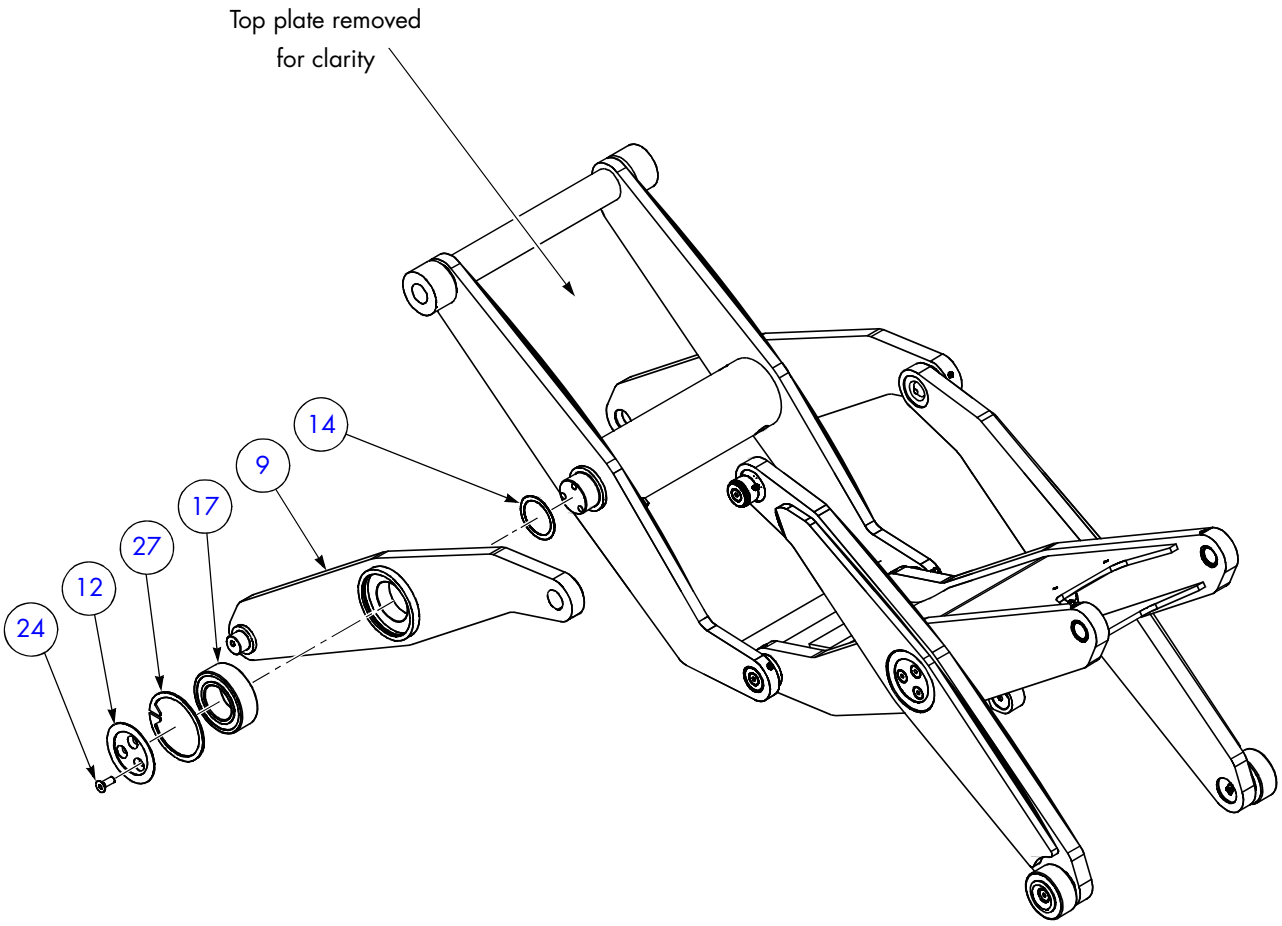


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Scissor Assembly, DR32TT

Figure 7-20b: Scissor Assembly, DR32TT



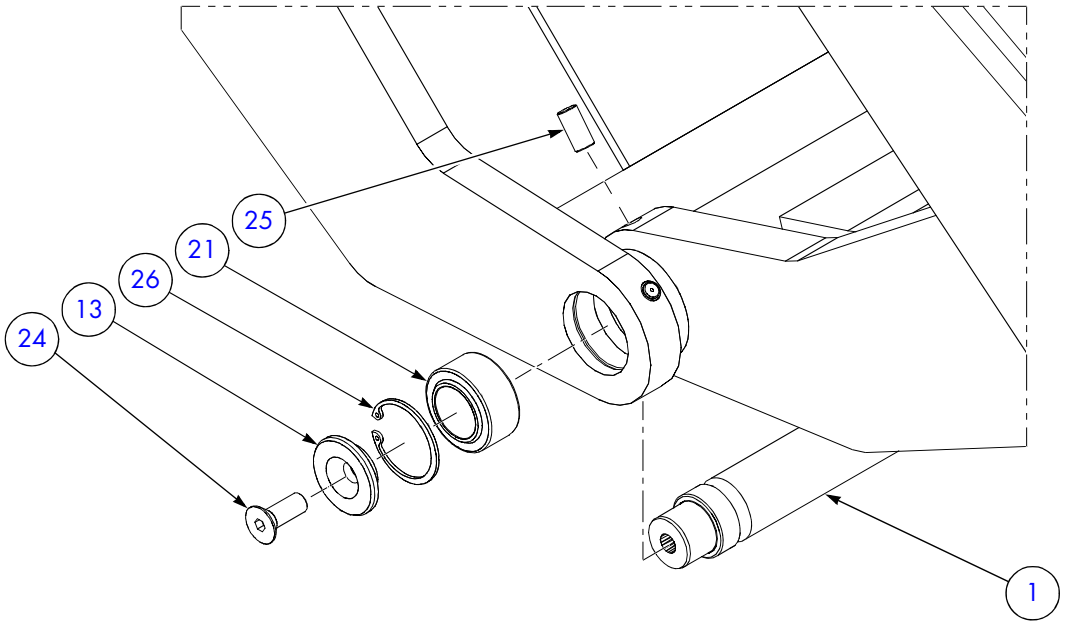
DETAIL A

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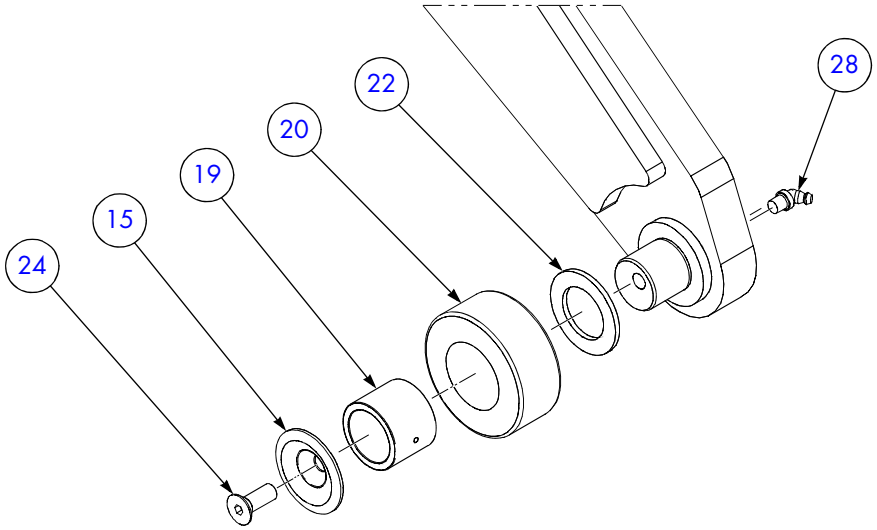
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Scissor Assembly, DR32TT

Figure 7-20c: Scissor Assembly, DR32TT



DETAIL B



DETAIL C

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List 7-20: Scissor Assembly, DR32TT

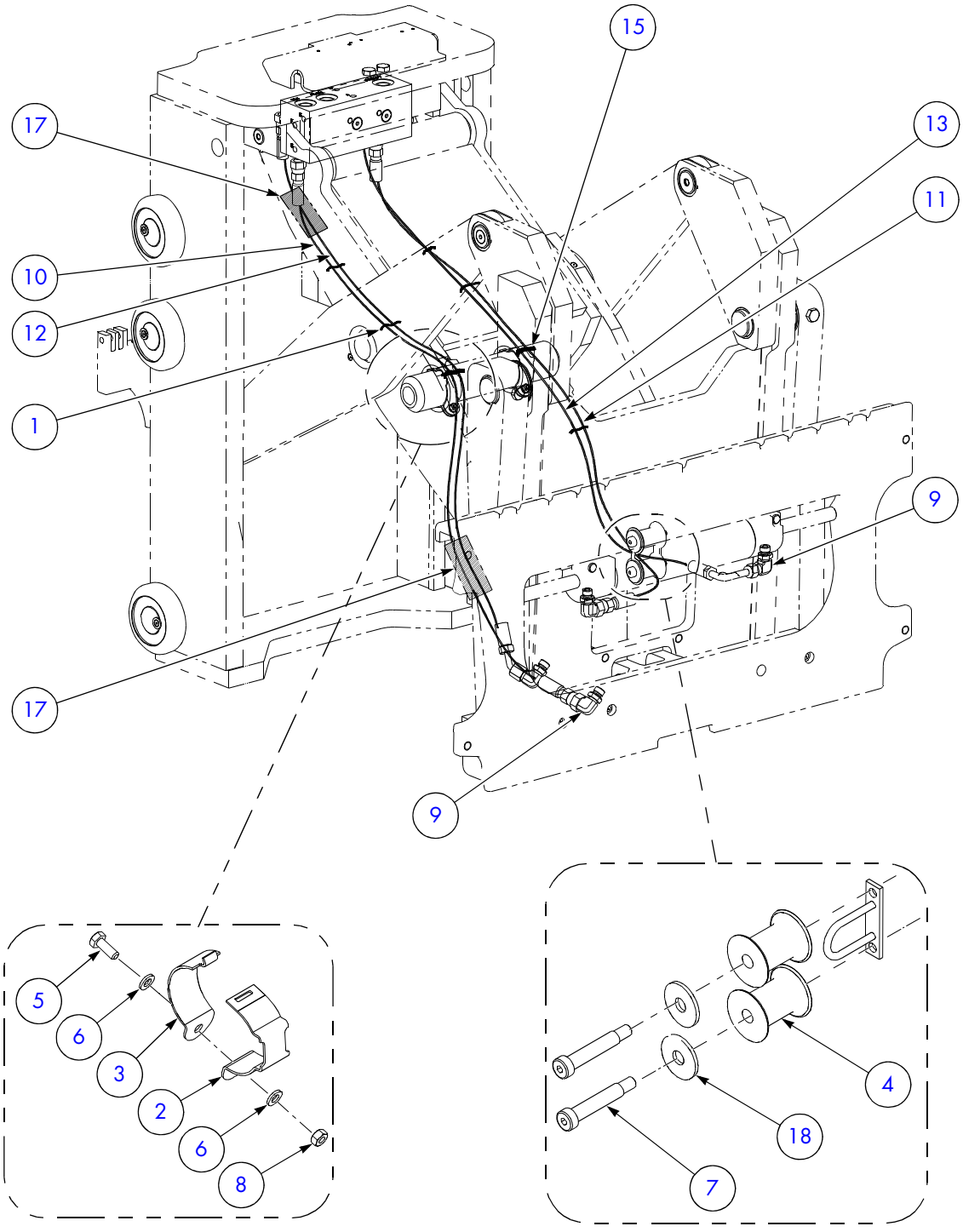
FIGURE 7-20 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1006237	Bar, Rod Link	
2	1	1007302	Scissor, Arm to Mast, Left-Hand Outer, DR32TT	
3	1	1007305	Scissor, Arm to Mast, Right-Hand Outer, DR32TT	
6	1	1021585	Scissor, Inner Rear (to Mast), DR32TT	
7	2	1021630	Ring, Retaining	
8	1	1042558	Scissor, Arm to Carriage, Right-Hand Outer, DR32TT	
9	1	1042559	Scissor, Arm to Carriage, Left-Hand Outer, DR32TT	
10	2	1049722	Bearing, Spherical	R
11	1	1080374	Scissor, Inner Front (to Carriage), DR32TT	
12	4	116-000-327	Cap, Retaining	
13	4	116-000-331	Ring	
14	4	116-000-333	Spacer	
15	2	116-000-342	Pin, Retainer	
16	2	623-009-300	Retainer, Bearing	
17	4	443-052	Bearing, Ball	R
18	2	448-221	Bearing, Roller	R
19	2	448-226	Bearing, Roller	R
20	2	448-227	Bearing, Roller	R
21	4	460-693	Bearing, Spherical	R
22	2	464-092	Bearing, Oil-Impregnated	R
23	2	714-096	Screw	
24	18	715-037	Screw	
25	1	724-520	Screw, Set	
26	4	810-030	Ring, Snap	
27	4	810-068	Ring, Snap	
28	2	840-018	Fitting, Grease	
29	7	841-111	Fitting, Grease	

R= Recommended Spare

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Hose and Cable Installation, Carriage, R35TT and R45TT

Figure 7-21a: Hose and Cable Installation, Carriage, R35TT and R45TT



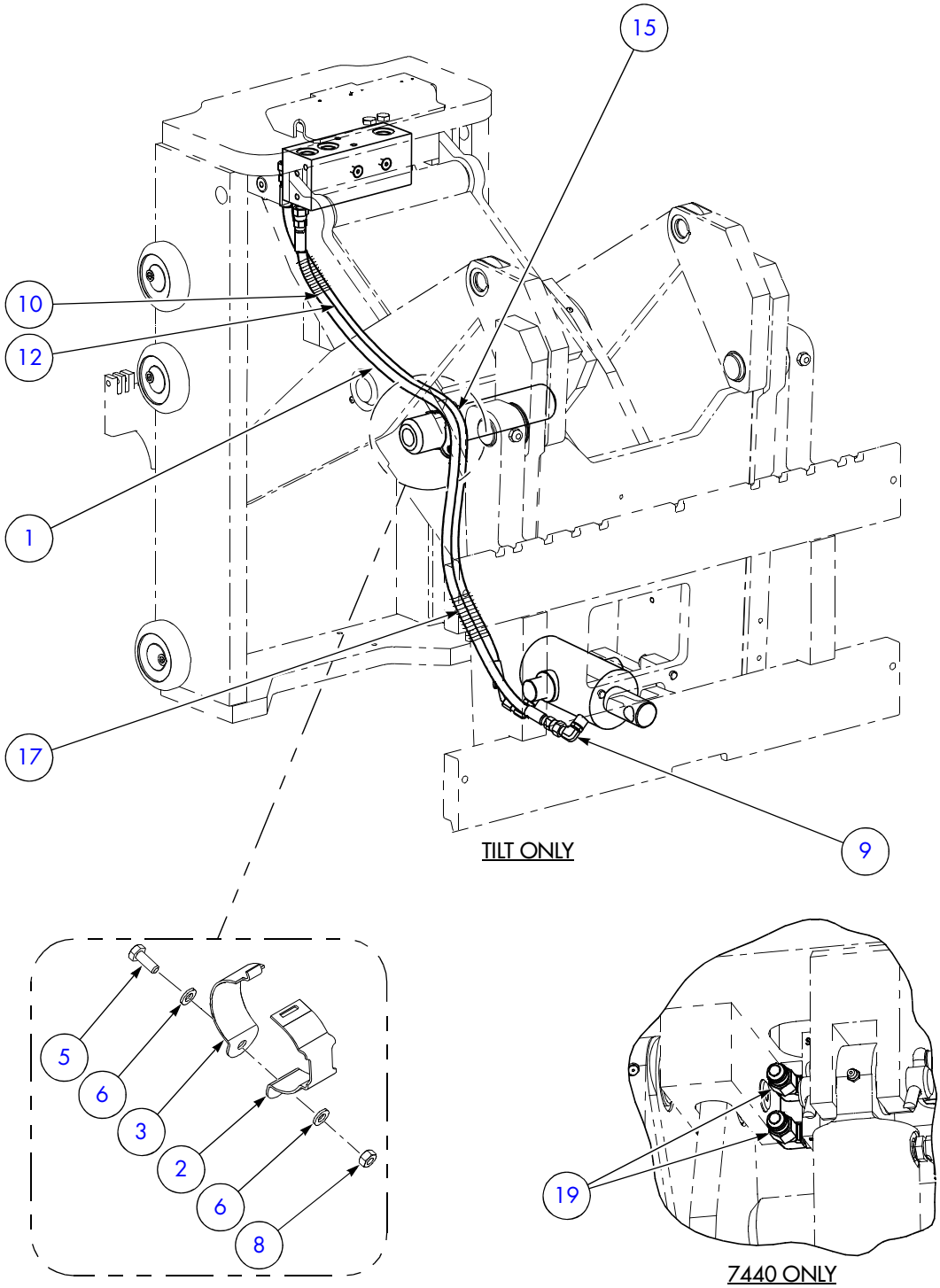
TILT AND SIDESHIFT

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Hose and Cable Installation, Carriage, R35TT and R45TT

Figure 7-21b: Hose and Cable Installation, Carriage, R35TT and R45TT

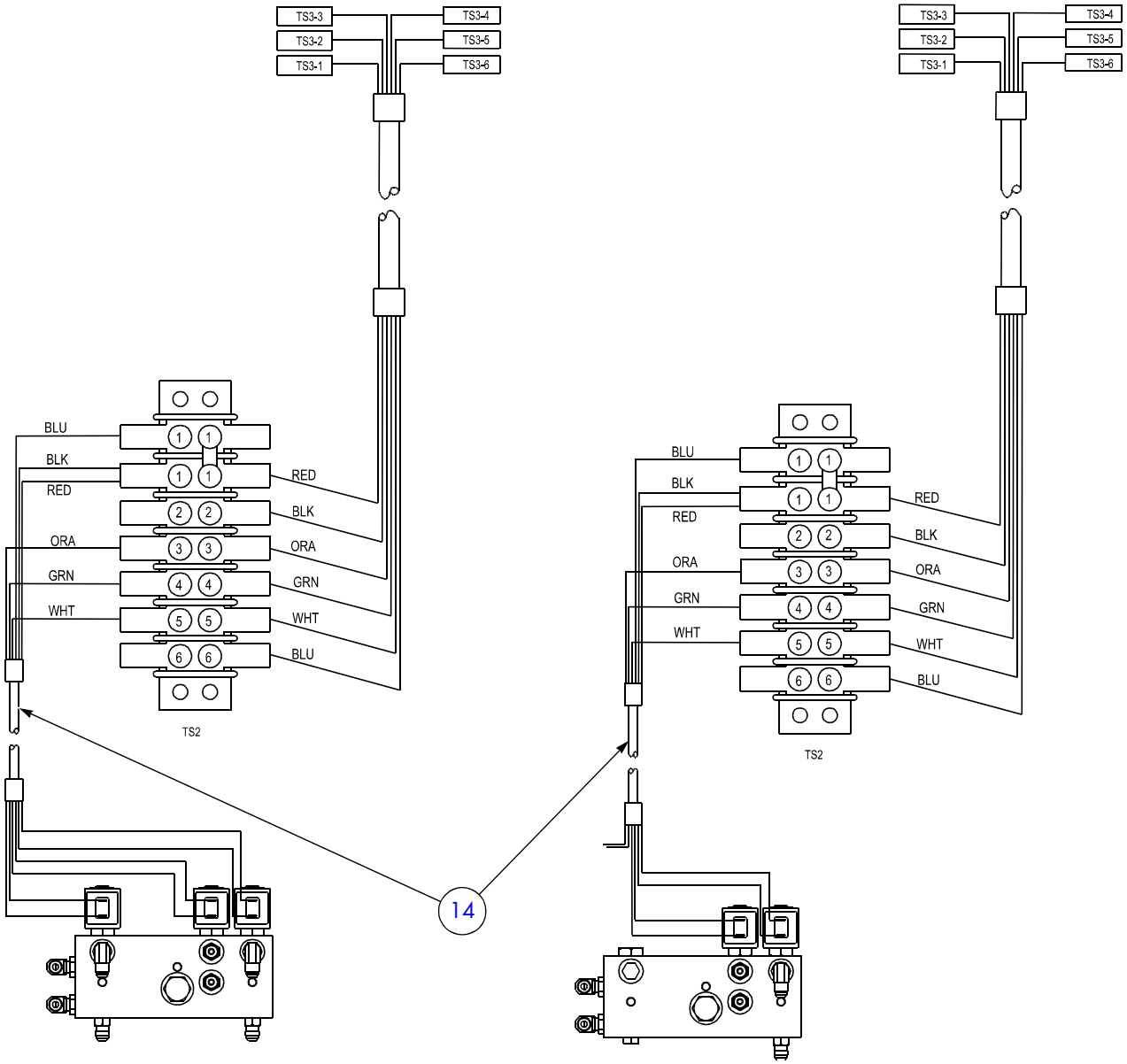


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Hose and Cable Installation, Carriage, R35TT and R45TT

Figure 7-21c: Hose and Cable Installation, Carriage, R35TT and R45TT



Three Function
Reach/Tilt/Sideshift

Two Function
Reach/Tilt

1070923_F2 1070923_F3 SHT 3 OF 3

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List 7-21: Hose and Cable Installation, Carriage, R35TT and R45TT

FIGURE 7-21 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-029	Cable Tie	
2	2	1026655	Bracket, Mounting, Hose	
3	2	1013300	Bracket, Mounting, Hose	
4	2	828-000-545	Guide, Hose	A
5	2	5-001-002	Screw	
6	4	5-018-005	Washer, Flat	
7	2	716-131	Screw	A
8	2	5-015-004	Nut	
9	4	792-509	Fitting, Elbow, Tilt and Sideshift Cylinders, R35TT and R45TT	
10	1	1021890/002	Hose Assembly, Tilt Cylinder Rod to Manifold TR, R35TT and R45TT	
11	1	1021890/003	Hose Assembly, Sideshift Right to Manifold SSL, R35TT and R45TT	A
12	1	1021890/005	Hose Assembly, Tilt Cylinder Cap to Manifold TC, R35TT and R45TT	
13	1	1021890/006	Hose Assembly, Sideshift Left to Manifold SSR, R35TT and R45TT	A
14	1	1070827	Harness, Carriage, R35TT and R45TT	
15	2	1022429	Strap, Hose Retention, Carriage	
17	AR	870-673	Guard, Cable	
18	2	771-173	Washer, Flat	A
19	2	1060705	Fitting, Straight	B

A= With Sideshift
B= Models 7420 and 7440
Note: Quantity item 3, 6 and 9 shown for with tilt and sideshift. For tilt only, reduce quantity to half.

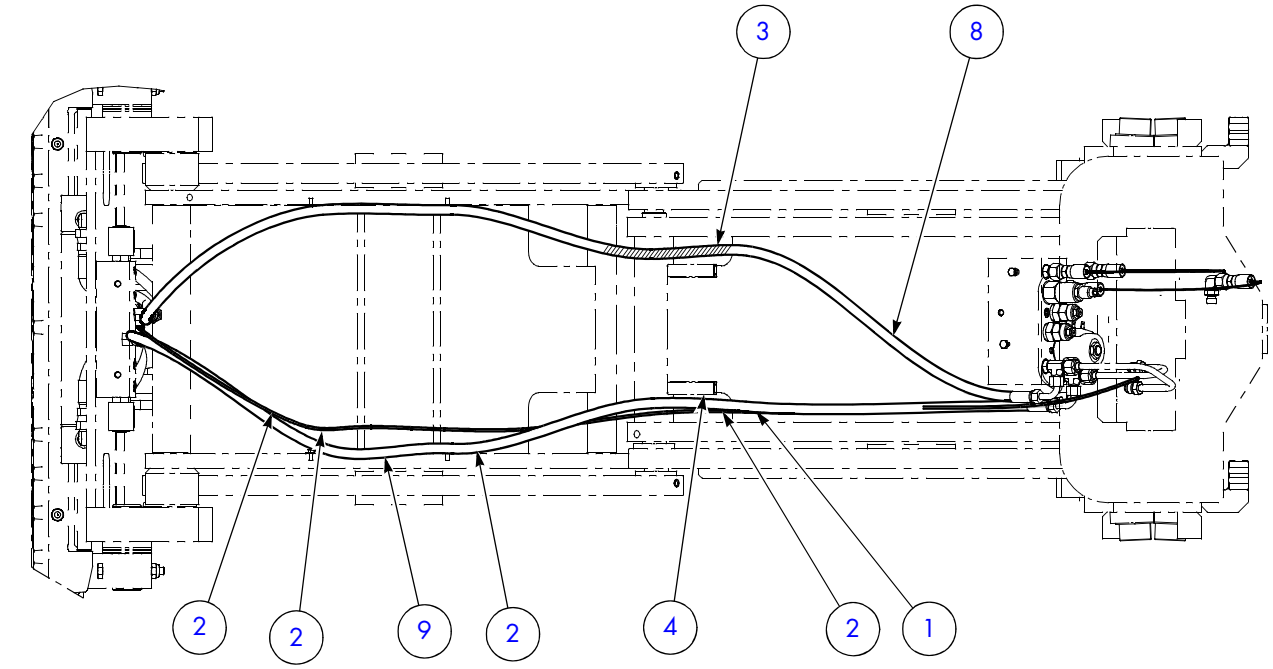
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RAYMOND

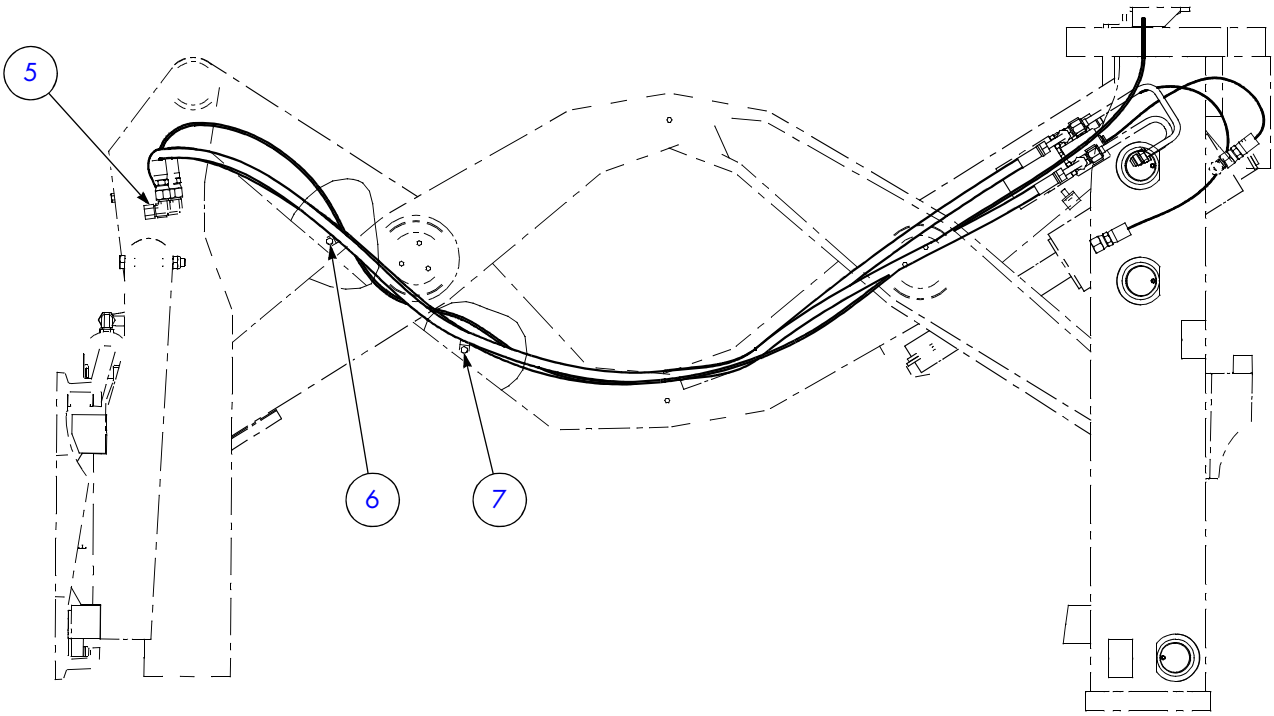
https://truckmanualshub.com/

Hose and Cable Installation, Carriage, DR32TT

Figure 7-22a: Hose and Cable Installation, Carriage, DR32TT



TOP VIEW

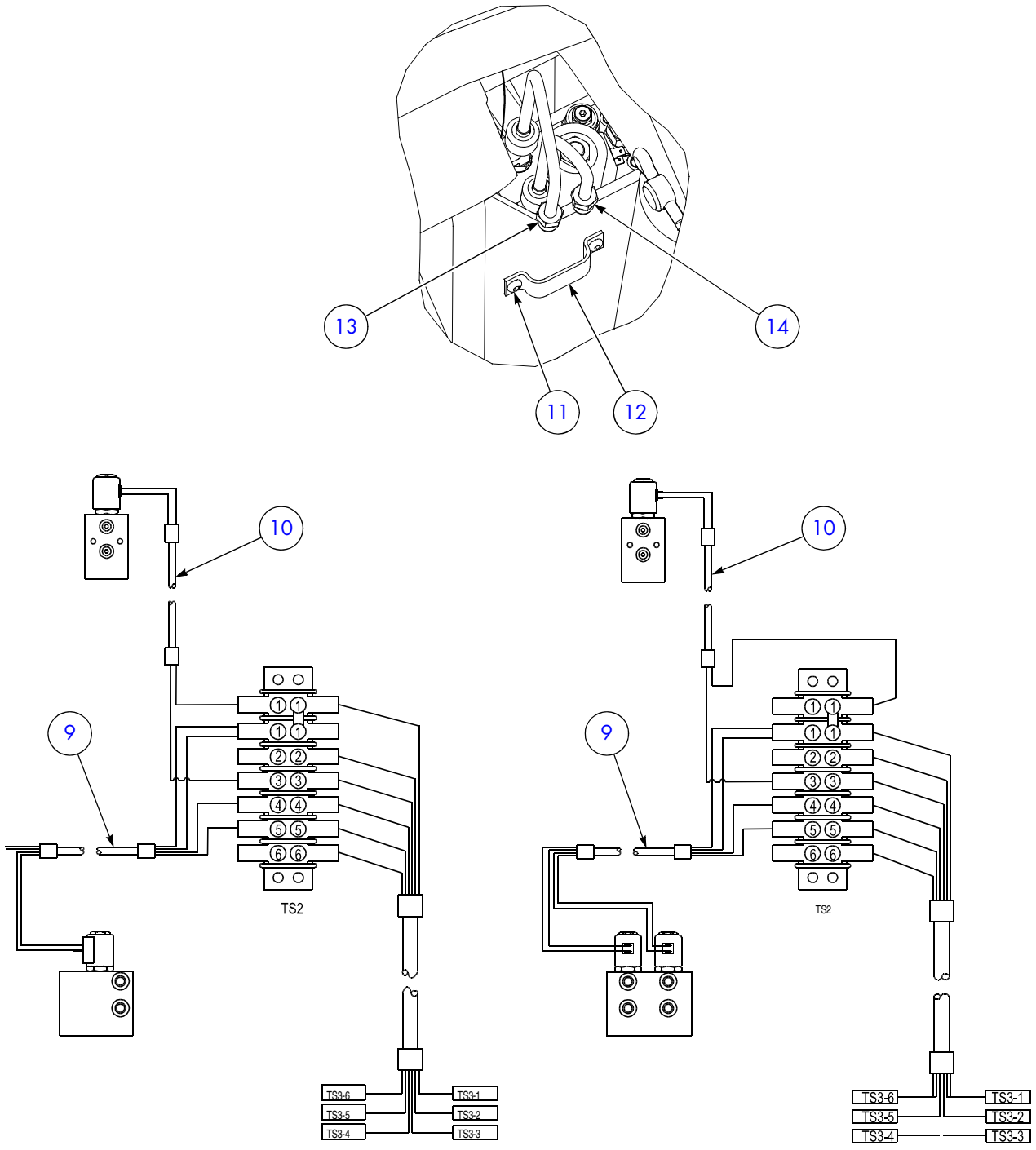


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Hose and Cable Installation, Carriage, DR32TT

Figure 7-22b: Hose and Cable Installation, Carriage, DR32TT



THREE-FUNCTION

Reach/Tilt/Sideshift

TWO-FUNCTION

Reach/Tilt

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List 7-22: Hose and Cable Installation, Carriage, DR32TT

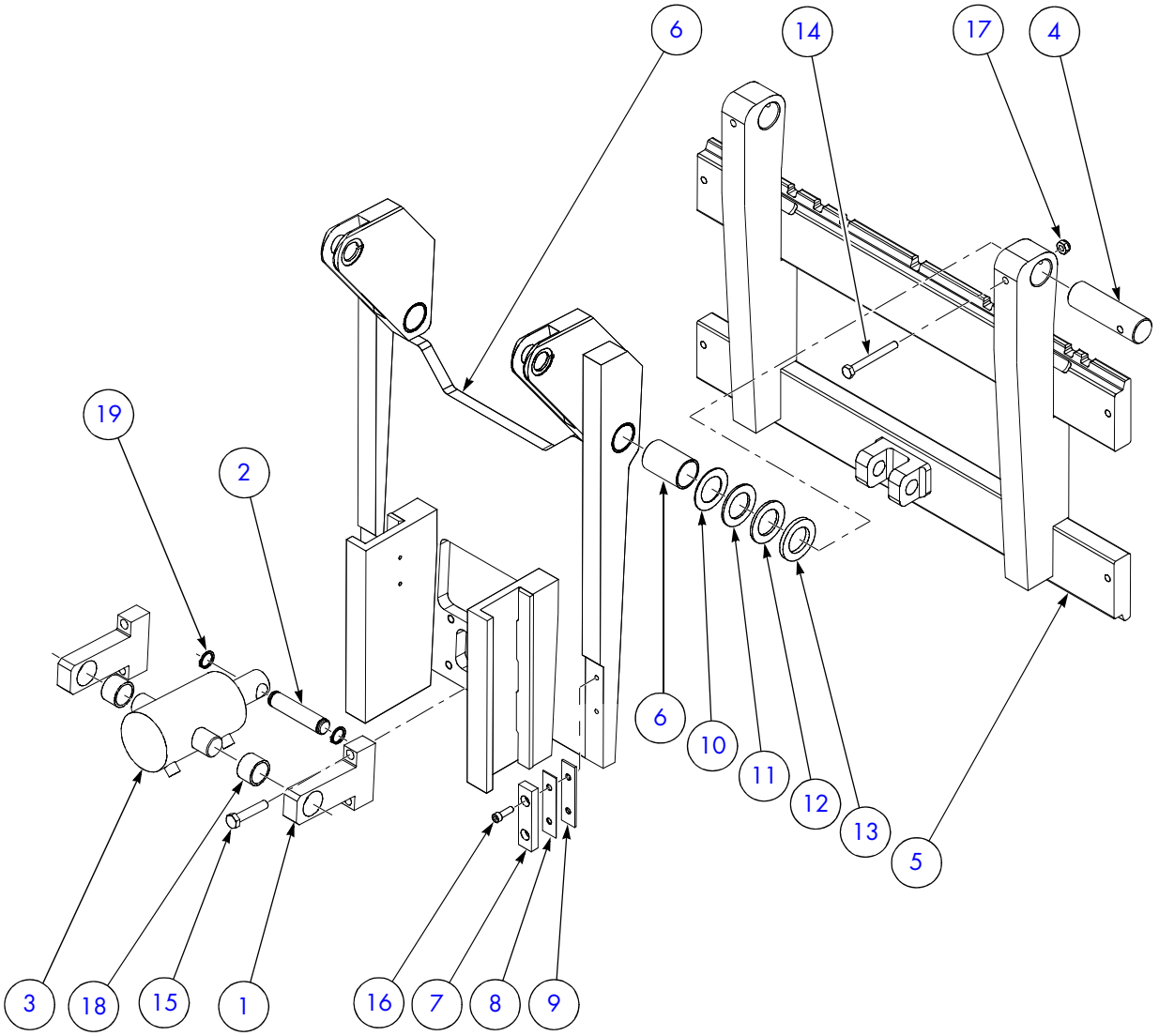
FIGURE 7-22 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	611-028	Cable Tie	
2	4	611-029	Cable Tie	
3	AR	870-673	Guard, Cable	
4	2	360-037/010	Guard, Hose	
5	2	792-515	Elbow, Male	
6	4	811-404	Clamp	
7	4	23006	Screw	
8	2	1021890/023	Hose Assembly	
9	1	1070419	Harness, Terminal Strip TS2 to Tilt and Sideshift Coils, DR32TT	
10	1	1070828	Harness, Terminal Strip TS2 to Reach Coil, DR32TT	
11	1	5-003-011	Screw	A
12	1	770-187-000	Clamp	A
13	1	1061207	Tubing, Reach Cylinder, DR32TT	A
14	1	1061209	Tubing, Reach Cylinder, DR32TT	A

A= Models 7420 and 7440

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Carriage Assembly, Tilt and No Sideshift, R35TT and R45TT

Figure 7-23: Carriage Assembly, Tilt and No Sideshift, R35TT and R45TT



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List 7-23: Carriage Assembly, Tilt and No Sideshift, R35TT and R45TT

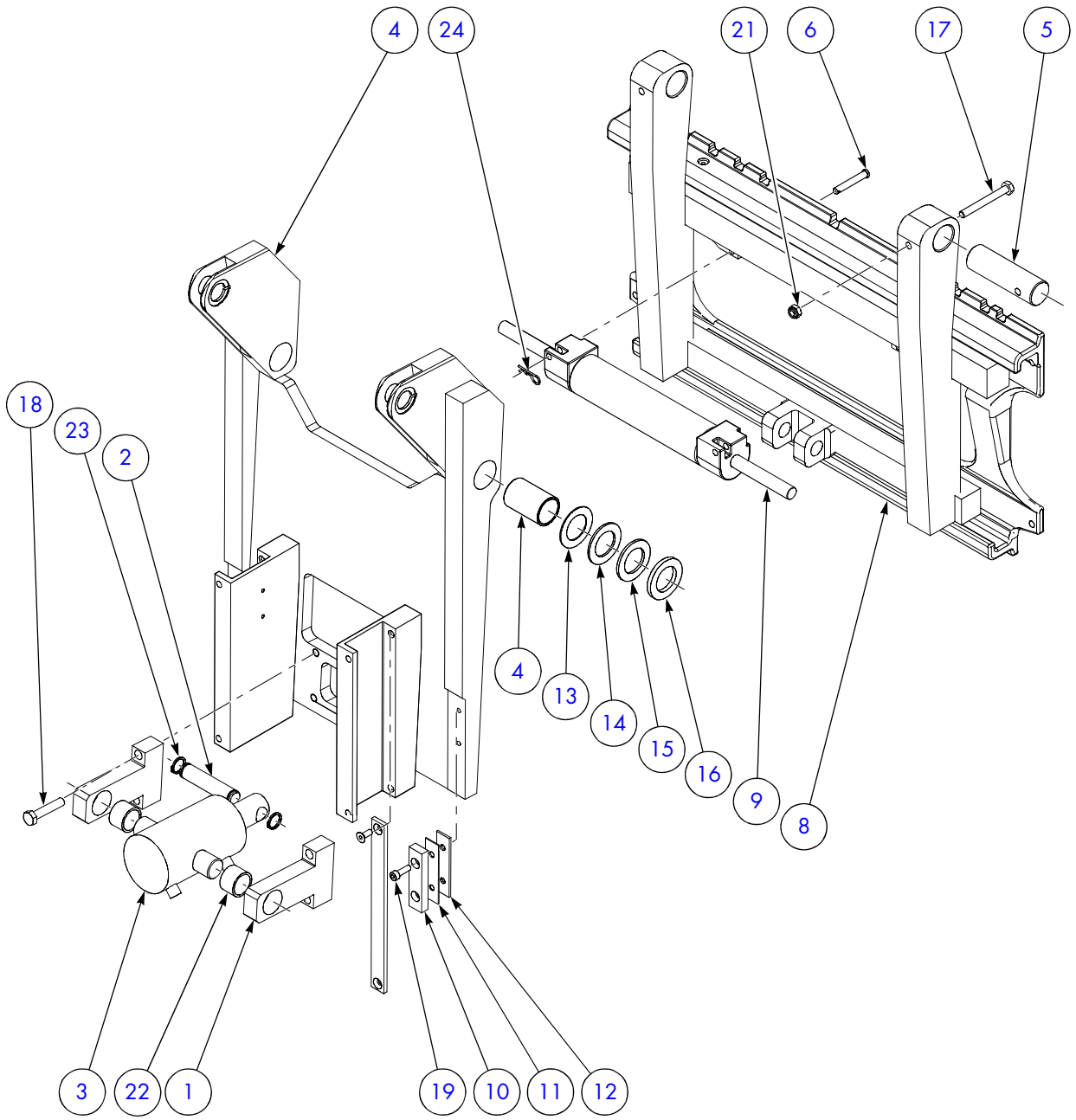
FIGURE 7-23 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	1001506	Bracket, Cylinder Mounting, Tilt, R35TT and R45TT	
2	1	1017785	Shaft, Tilt/Pivot	
3	1	1030006	Cylinder, Tilt, R35TT and R45TT (See Figure 6-31.)	
4	2	1010121/001	Shaft, Carriage	
5	1	1046524	Carriage, Machined, Tilt	A
	1	1042648	Carriage, Machined, Tilt	B
6	1	1048446	Frame Assembly, Carriage (includes:)	
	2	1012503	Bearing, Cylindrical	R
7	2	820-001-656	Bumper, Carriage Scissors	
8	AR	820-001-657	Shim (0.0625 in. Thick)	
9	AR	820-001-658	Shim (0.125 in. Thick)	
10	AR	828-005-141/001	Shim (0.06 in. Thick)	
11	AR	828-005-141/002	Shim (0.12 in. Thick)	
12	AR	828-005-141/003	Shim (0.15 in. Thick)	
13	AR	828-005-141/004	Shim (0.25 in. Thick)	
14	2	5-001-045	Screw	A
	2	5-001-022	Screw	B
15	4	5-001-039	Screw	
16	4	5-002-008	Screw	
17	2	5-016-006	Nut, Nylon Locking	
18	2	460-476	Bearing, Oil-Impregnated	R
19	2	1017784	Ring, Retaining	

A= R35TT
B= R45TT
R= Recommended Spare

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Carriage Assembly, Tilt and Sideshift, R35TT and R45TT

Figure 7-24: Carriage Assembly, Tilt and Sideshift, R35TT and R45TT



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List 7-24: Carriage Assembly, Tilt and Sideshift, R35TT and R45TT

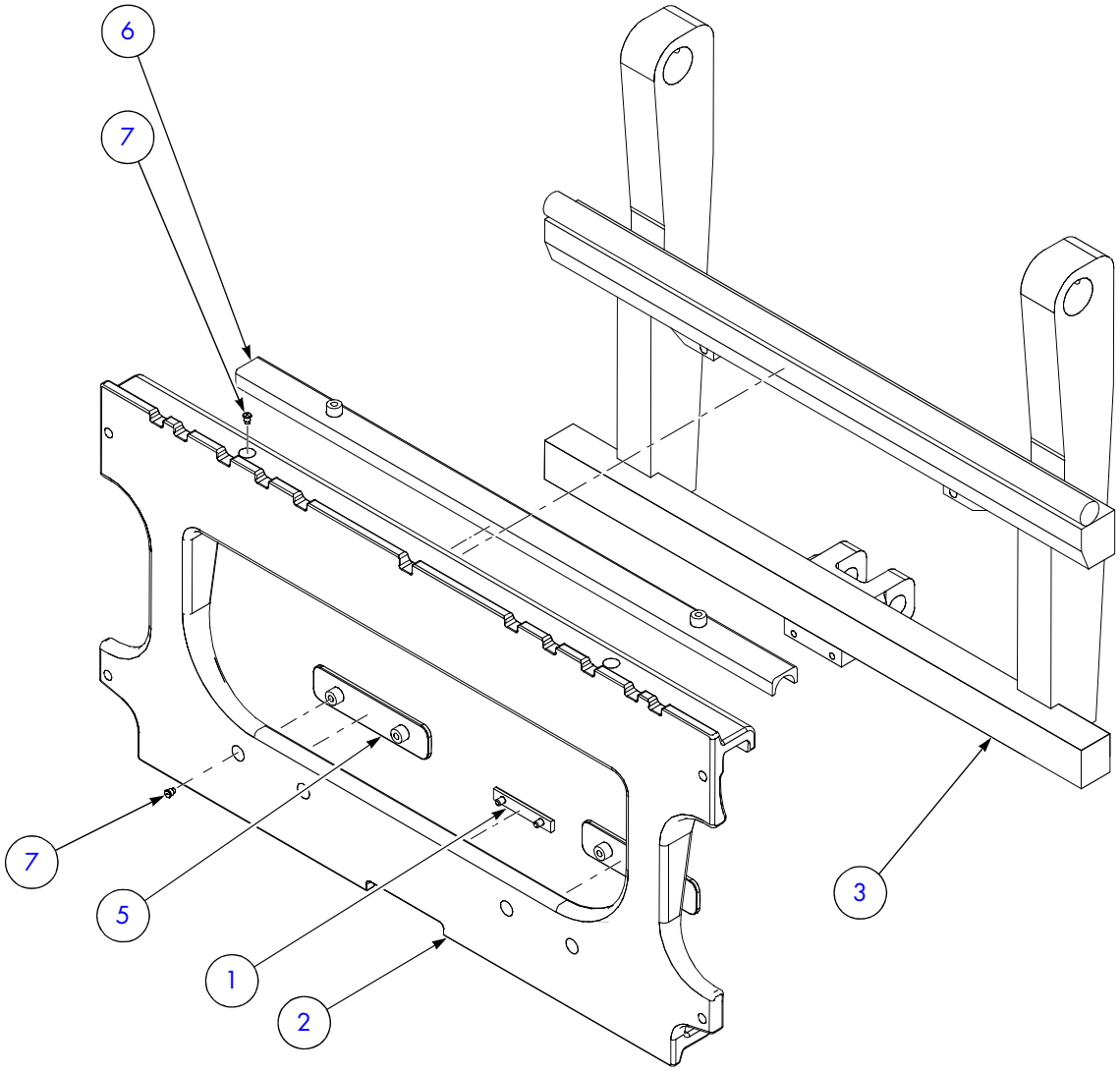
FIGURE 7-24 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	1001506	Bracket, Cylinder Mounting, Tilt, R35TT and R45TT	
2	1	1017785	Shaft, Tilt/Pivot	
3	1	1030006	Cylinder, Tilt, R35TT and R45TT (See Figure 6-31.)	
4	1	1048446	Frame Assembly, Carriage (includes:)	
	2	1012503	Bearing, Cylindrical	R
5	2	1010121/001	Shaft, Carriage	
6	2	1017291	Pin	
8	1	1018813	Carriage Subassembly, Tilt with Sideshift (See Figure 7-25.)	A
	1	1020739	Carriage Subassembly, Tilt with Sideshift (See Figure 7-25.)	B
9	1	1037382/400	Cylinder Assembly, 2 in. Sideshift (See Figure 6-32.)	
	1	1037383/400	Cylinder Assembly, 4 in. Sideshift (See Figure 6-32.)	
10	2	820-001-656	Bumper, Carriage Scissors	
11	AR	820-001-657	Shim (0.0625 in. Thick)	
12	AR	820-001-658	Shim (0.125 in. Thick)	
13	AR	828-005-141/001	Shim (0.06 in. Thick)	
14	AR	828-005-141/002	Shim (0.12 in. Thick)	
15	AR	828-005-141/003	Shim (0.15 in. Thick)	
16	AR	828-005-141/004	Shim (0.25 in. Thick)	
17	2	5-001-045	Screw	A
	2	5-001-022	Screw	B
18	4	5-001-039	Screw	
19	4	5-002-008	Screw	
21	2	5-016-016	Nut, Lock	
22	2	460-476	Bearing, Oil-Impregnated	R
23	2	1017784	Ring, Retaining	
24	2	811-563	Pin, Cotter	

A= R35TT
B= R45TT
R= Recommended Spare

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Carriage Assembly, Tilt and Sideshift, R35TT and R45TT

Figure 7-25: Carriage Assembly, Tilt and Sideshift, R35TT and R45TT



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List 7-25: Carriage Assembly, Tilt and Sideshift, R35TT and R45TT

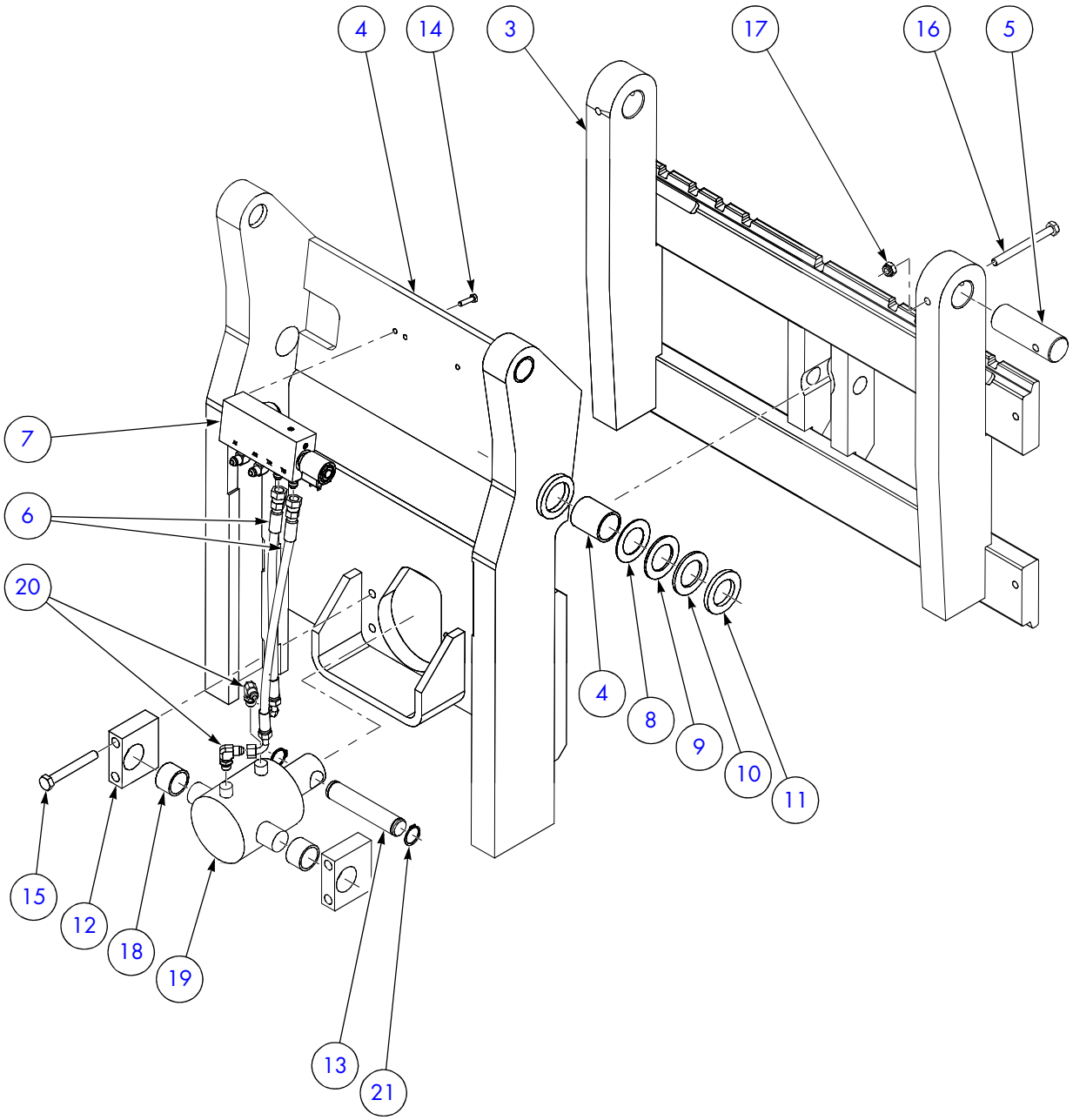
FIGURE 7-25 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1029043	Pad, Retainer	
2	1	1076177	Carriage, Machined, Sideshift, R35TT and R45TT	
3	1	1058971	Carriage, Machined, Tilt with Sideshift, R35TT	A
	1	1058972	Carriage, Machined, Tilt with Sideshift, R45TT	B
5	2	1022278	Track, Bearing, Carriage	R
6	1	1020738	Track, Bearing, Carriage	R
7	6	841-111	Fitting, Grease	
8	AR	1028037	Shim (0.031 in. Thick) (Not Shown)	
9	AR	1028039	Shim (0.062 in. Thick) (Not Shown)	

A= R35TT
B= R45TT
R= Recommended Spare

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Carriage Assembly, Tilt and No Sideshift, DR32TT

Figure 7-26: Carriage Assembly, Tilt and No Sideshift, DR32TT



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List 7-26: Carriage Assembly, Tilt and No Sideshift, DR32TT

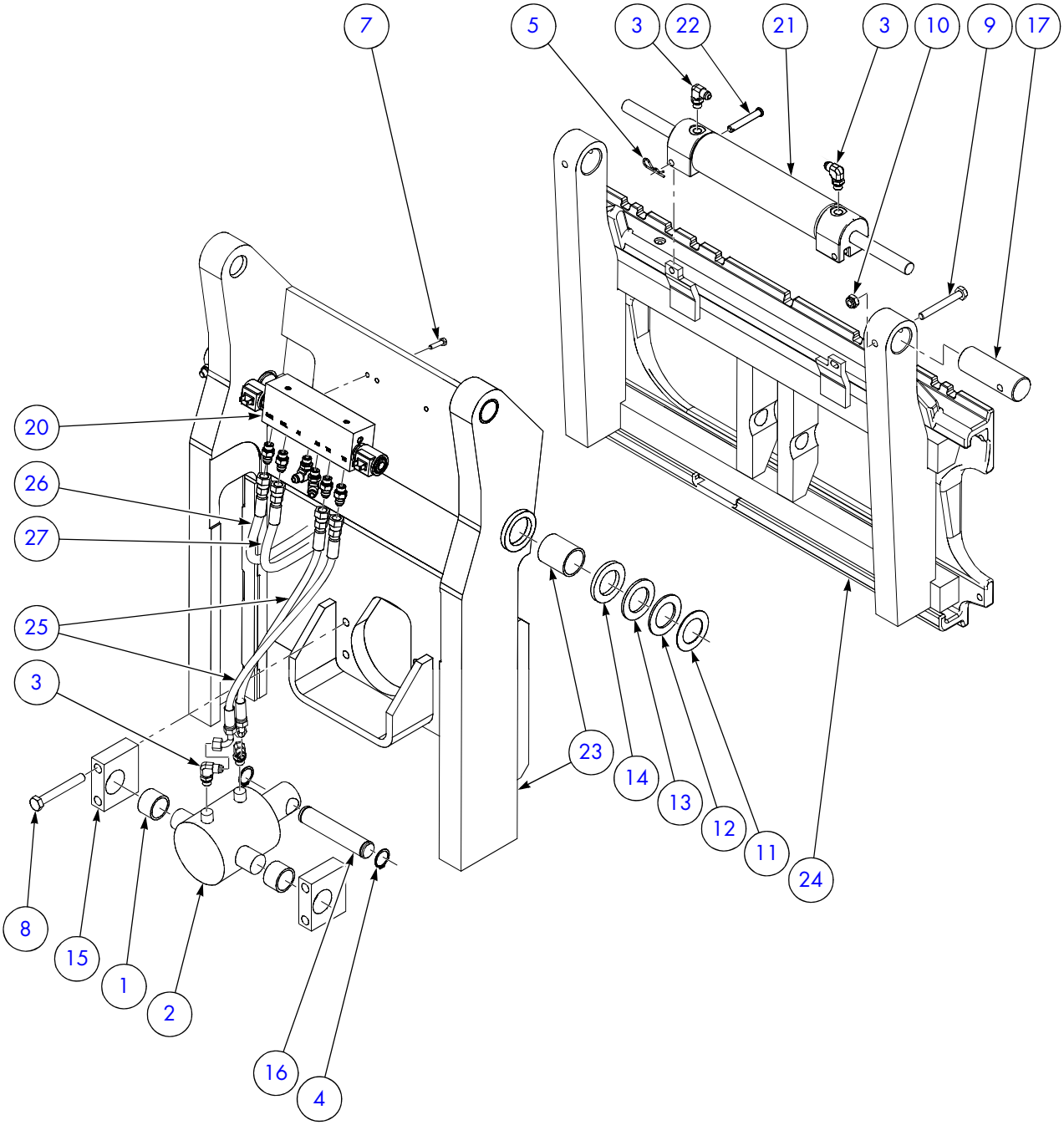
FIGURE 7-26 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
3	1	1047537	Carriage, Machined, Tilt Without Sideshift, DR32TT	
4	1	1020871	Frame, Carriage Machined, Deep-Reach (includes:)	
	2	460-488	Bearing, Sleeve	R
	2	460-616	Bearing, Sleeve, Flanged	R
5	1	1010121/002	Shaft, Carriage	
6	2	1021890/007	Hose Assembly, Tilt Cylinder to Manifold TR and TC, DR32TT	
7	1	1014591/002	Manifold Assembly, Tilt, DR32TT (See Figure 6-23.)	
8	AR	828-005-141/001	Shim (0.06 in. Thick)	
9	AR	828-005-141/002	Shim (0.12 in. Thick)	
10	AR	828-005-141/003	Shim (0.15 in. Thick)	
11	AR	828-005-141/004	Shim (0.25 in. Thick)	
12	2	828-006-339	Bracket, Cylinder Mounting, Tilt, DR32TT	
13	1	828-009-986	Shaft, Tilt/Pivot	
14	2	5-001-004	Screw	
15	4	5-001-028	Screw	
16	2	5-001-045	Screw	
17	2	5-016-016	Nut, Lock	
18	2	460-476	Bearing, Oil-Impregnated	R
19	1	540-084/400	Cylinder, Tilt, DR32TT (See Figure 6-31.)	
20	2	792-509	Fitting, Elbow, Tilt Cylinder, DR32TT	
21	2	810-132	Ring, Retaining	

R= Recommended Spare

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Carriage Assembly, Tilt and Sideshift, DR32TT

Figure 7-27: Carriage Assembly, Tilt and Sideshift, DR32TT



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List 7-27: Carriage Assembly, Tilt and Sideshift, DR32TT

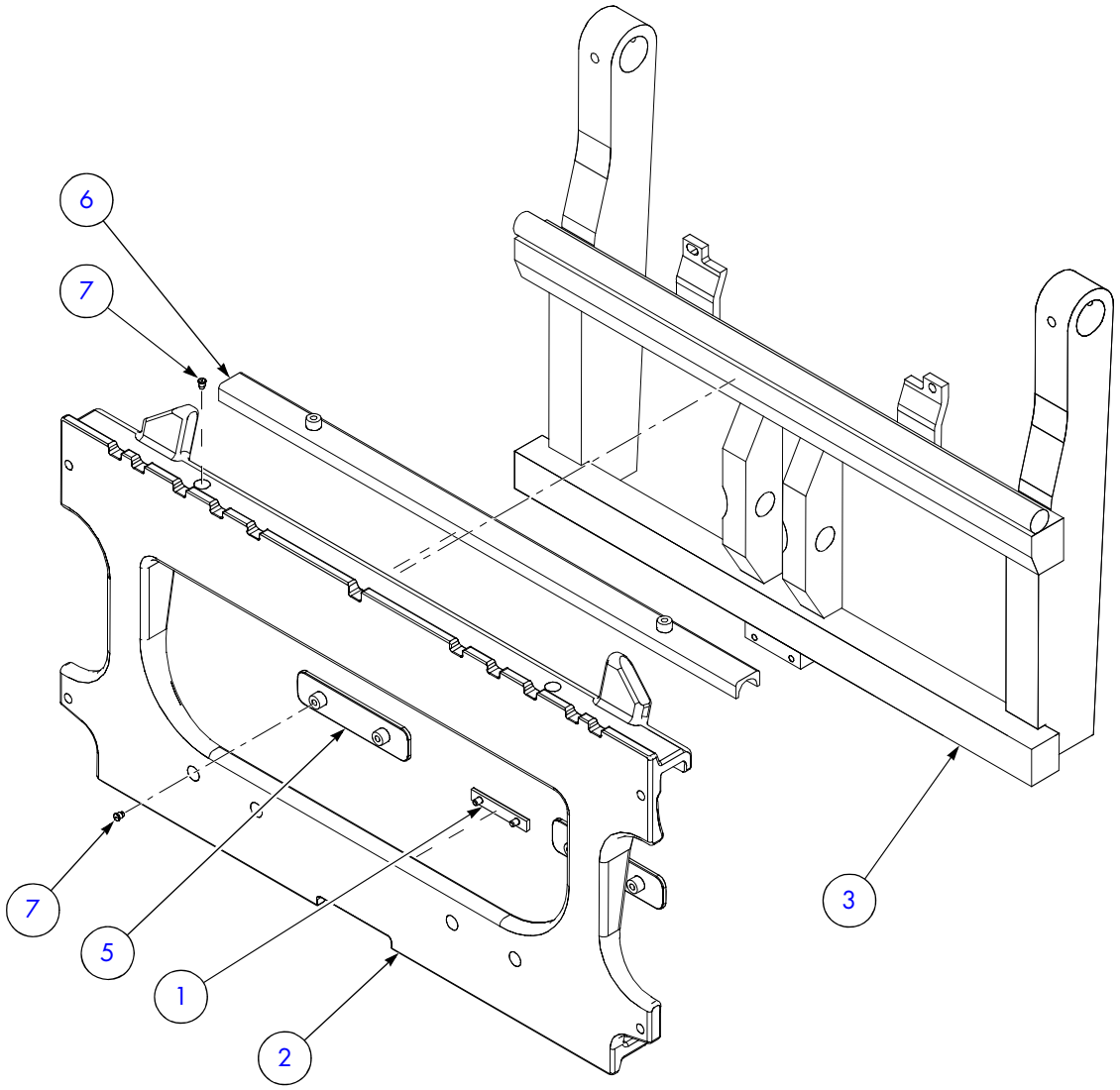
FIGURE 7-27 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	460-476	Bearing, Oil-Impregnated	R
2	1	540-084/400	Cylinder, Tilt, DR32TT (See Figure 6-31.)	
3	2	792-509	Fitting, Elbow, Tilt Cylinder, DR32TT	
4	2	810-132	Ring, Retaining	
5	2	811-563	Pin, Cotter	
7	2	5-001-004	Screw	
8	4	5-001-028	Screw	
9	2	5-001-045	Screw	
10	2	5-016-016	Nut, Lock	
11	AR	828-005-141/001	Shim (0.06 in. Thick)	
12	AR	828-005-141/002	Shim (0.12 in. Thick)	
13	AR	828-005-141/003	Shim (0.15 in. Thick)	
14	AR	828-005-141/004	Shim (0.25 in. Thick)	
15	2	828-006-339	Bracket, Cylinder Mounting, Tilt, DR32TT	
16	1	828-009-986	Shaft, Tilt/Pivot	
17	2	1010121/002	Shaft, Carriage	
20	1	1014583/002	Manifold Assembly, Tilt and Sideshift, DR32TT (See Figure 6-24.)	
21	1	1037382/400	Cylinder Assembly, 2 in. Sideshift (See Figure 6-32.)	
22	2	1017291	Pin	
23	1	1020871	Frame, Carriage Machined, Deep-Reach (includes:)	
	2	460-488	Bearing, Sleeve	R
	2	460-616	Bearing, Sleeve, Flanged	R
24	1	1022951	Carriage Assembly, Sideshift, DR32TT (See Figure 7-28.)	
25	2	1021890/007	Hose Assembly, Tilt Cylinder to Manifold TR and TC, DR32TT	
26	1	1021890/009	Hose Assembly, Sideshift Cylinder Left to Manifold SSR, DR32TT	
27	1	1021890/010	Hose Assembly, Sideshift Cylinder Right to Manifold SSL, DR32TT	

R= Recommended Spare

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Carriage Assembly, Sideshift, DR32TT

Figure 7-28: Carriage Assembly, Sideshift, DR32TT



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List 7-28: Carriage Assembly, Sideshift, DR32TT

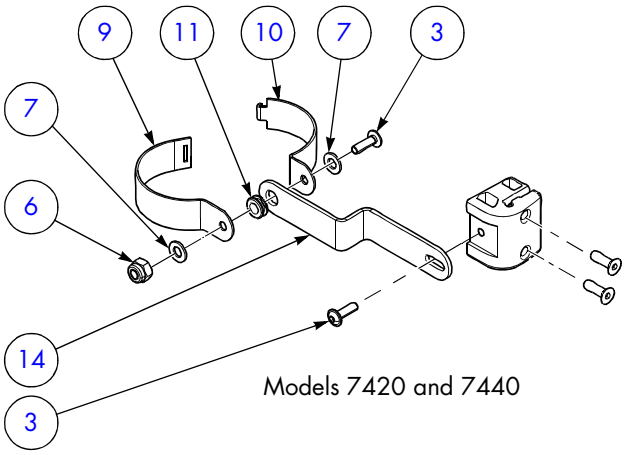
FIGURE 7-28 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1029043	Pad, Retainer	
2	1	1076176	Carriage, Machined, Sideshift, DR32TT	
3	1	1058973	Carriage, Tilt and Sideshift, DR32TT	
5	2	1022278	Track, Bearing, Carriage	R
6	1	1020738	Track, Bearing, Carriage	R
7	6	841-111	Fitting, Grease	
8	AR	1028037	Shim (0.031 in. Thick) (Not Shown)	
9	AR	1028039	Shim (0.062 in. Thick) (Not Shown)	

R= Recommended Spare

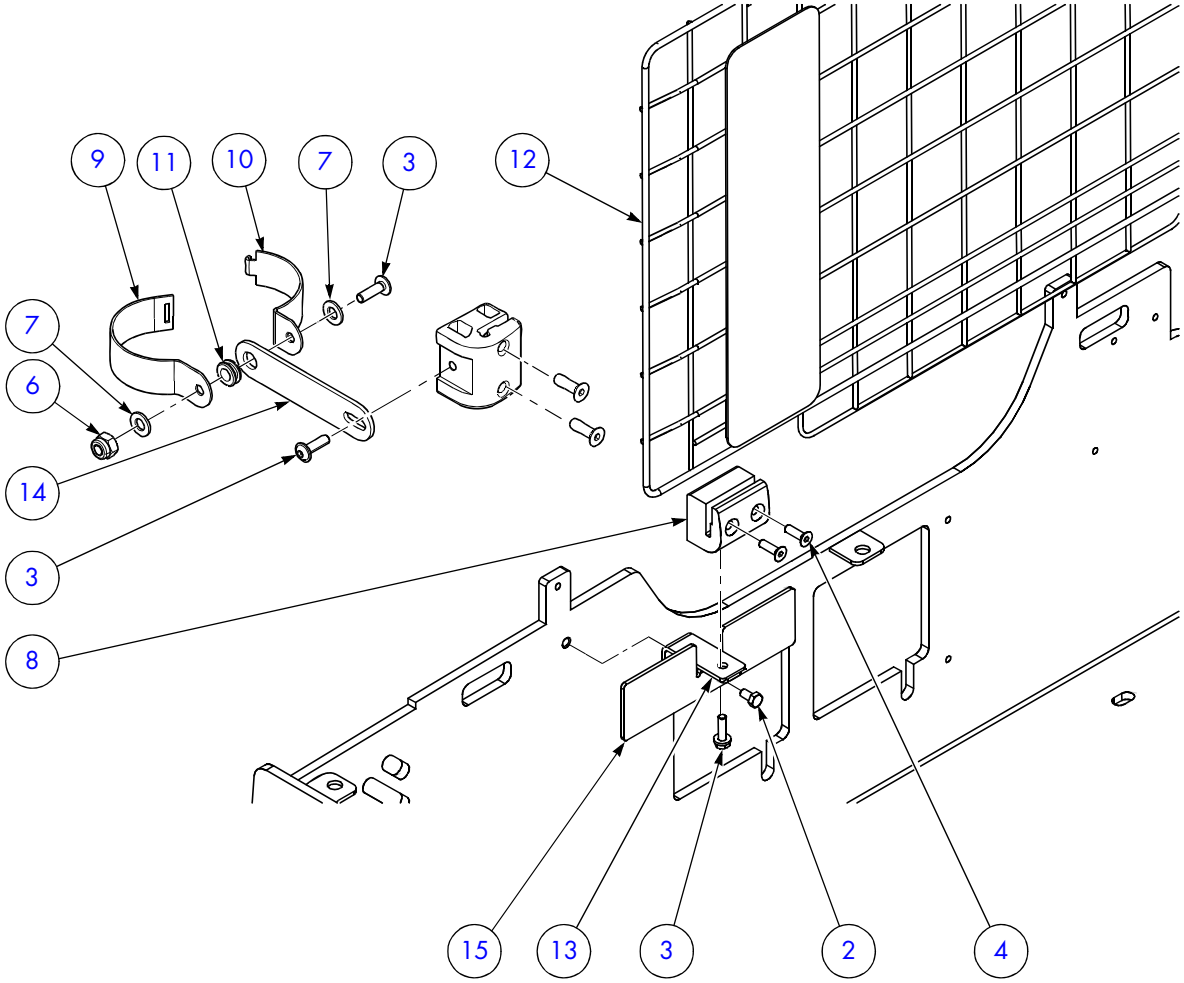
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Mast Guard Installation, Mesh

Figure 7-29: Mast Guard Installation, Mesh



Models 7420 and 7440



1040479_E, 1051752_B

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List 7-29: Mast Guard Installation, Mesh

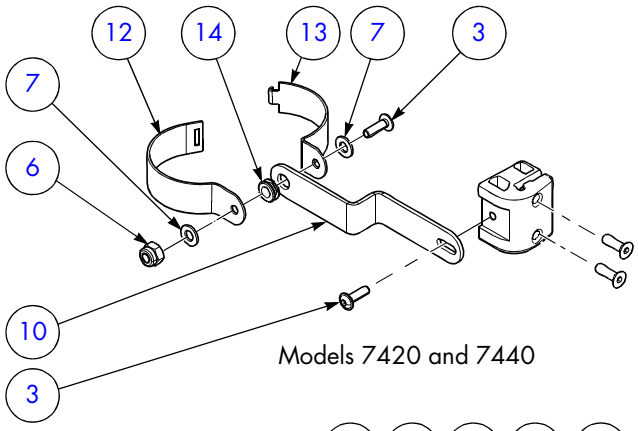
FIGURE 7-29 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	2	5-007-023	Screw	
3	6	5-007-024	Screw	
4	8	5-004-017	Screw	
6	2	5-016-004	Nut, Nylon Locking	
7	4	5-018-005	Washer, Flat	
8	4	114-021-643/001	Bracket, Clamp (Lower)	
9	2	1061347	Bracket, Mast Guard	B
	2	1051755	Bracket, Mast Guard	C
	2	1092330	Bracket, Mast Guard	C
10	2	1061348	Bracket, Mast Guard	B
	2	1051756	Bracket, Mast Guard	C
	2	1092329	Bracket, Mast Guard	C
11	2	1013204	Grommet, Rubber	
12	1	Ref.	Guard, Mast, Mesh	A
13	2	1017370	Bracket, Mast Guard	
14	2	1017371	Bracket, Mast Guard (Straight)	B
	2	1051751	Bracket, Mast Guard (Z Bend)	C
15	1	1020661	Guard, Finger	

A= Contact Technical Support
B= Model 7400
C= Models 7420 and 7440
Note: Quanties are Typical and May Vary

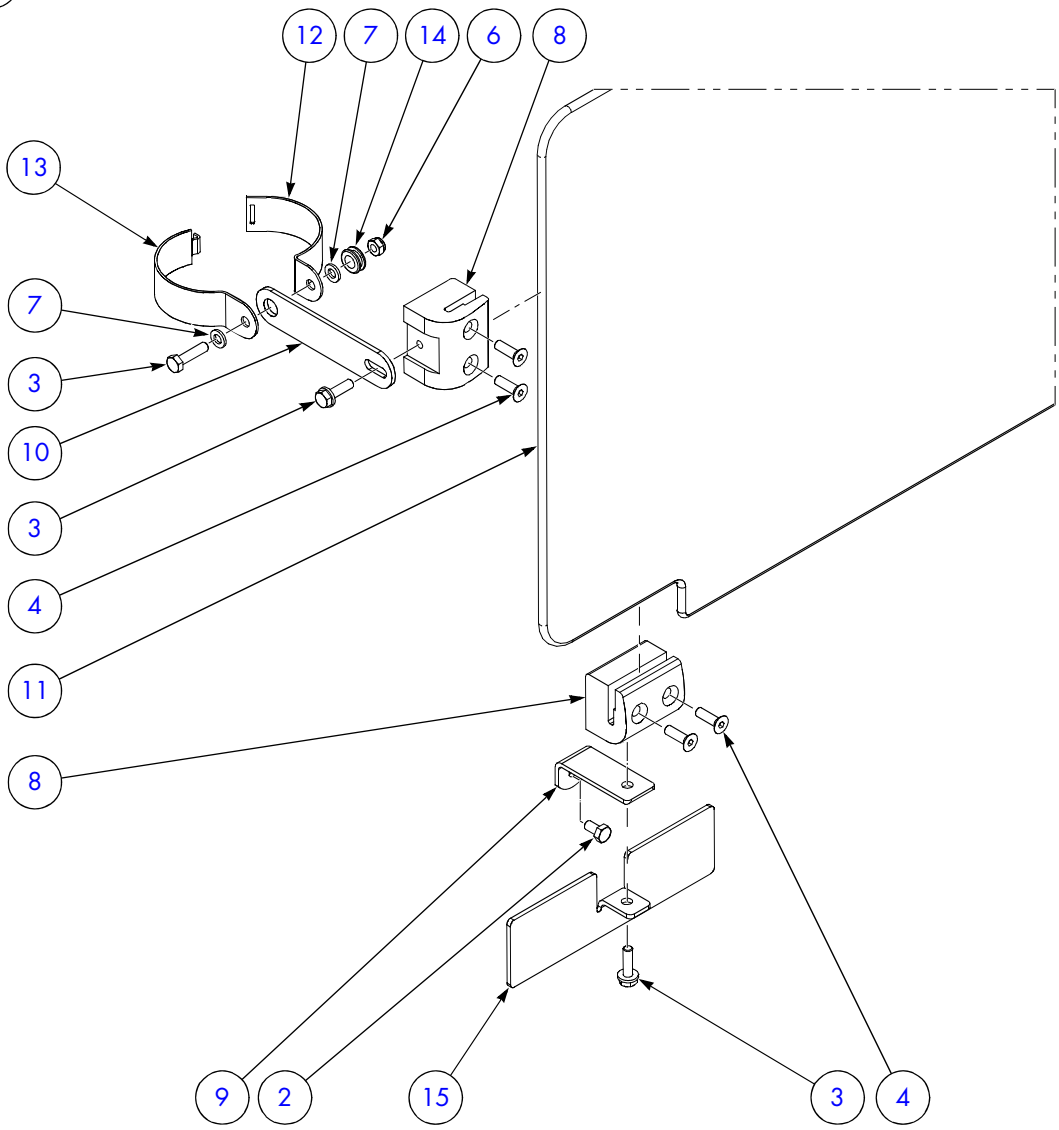
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Mast Guard Installation, Glass

Figure 7-30: Mast Guard Installation, Glass



Models 7420 and 7440



R1020622_A, 1051752_B

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List 7-30: Mast Guard Installation, Glass

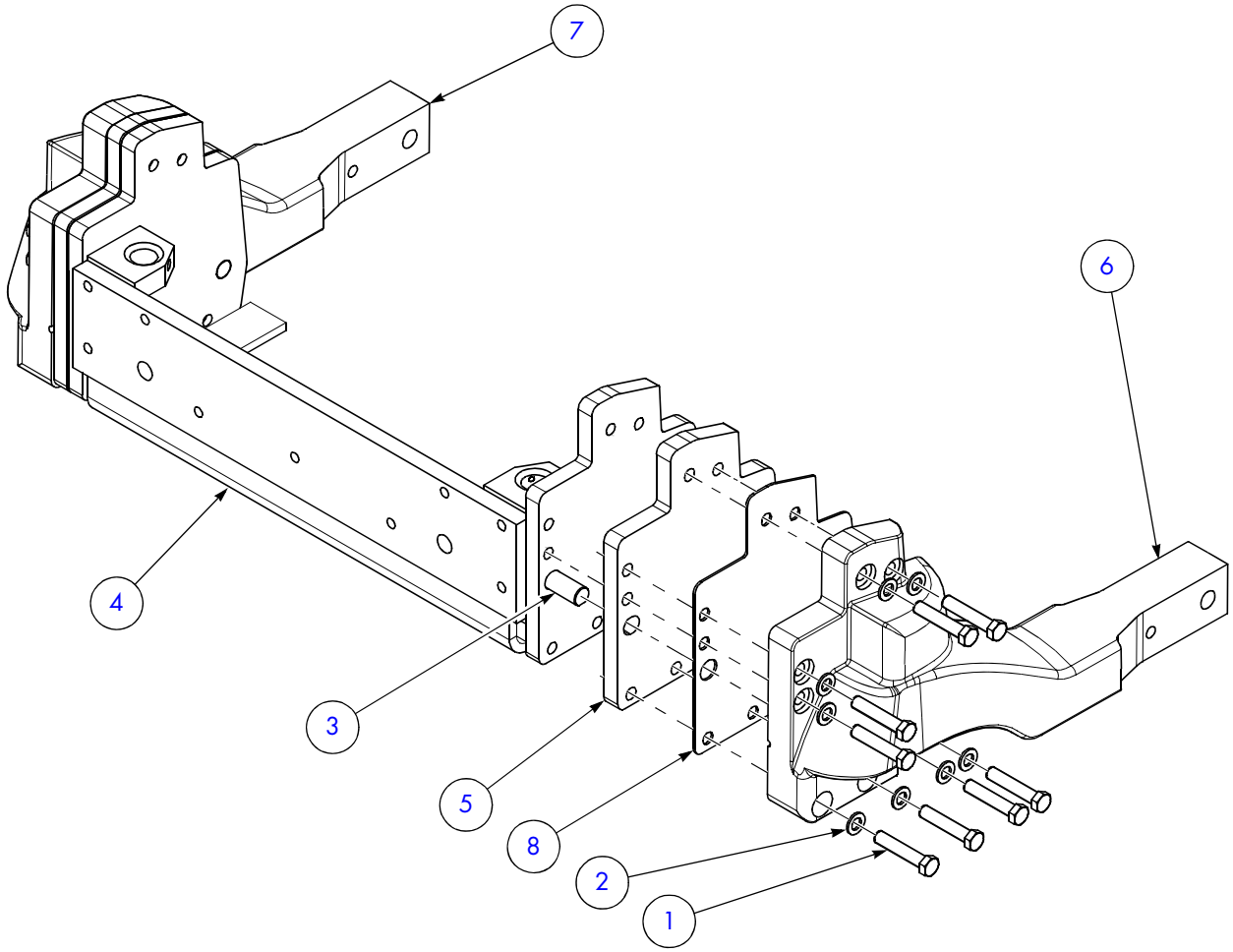
FIGURE 7-30 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	2	5-007-023	Screw	
3	6	5-007-024	Screw	
4	8	5-004-017	Screw	
6	2	5-016-004	Nut, Nylon Locking	
7	4	5-018-005	Washer, Flat	
8	4	114-021-643/001	Bracket, Clamp	
9	2	1017370	Bracket, Mast Guard	
10	2	1017371	Bracket, Mast Guard (Straight)	B
	2	1051751	Bracket, Mast Guard (Z Bend)	C
11	1	Ref.	Guard, Mast, Glass	A
12	2	1061347	Bracket, Mast Guard	B
	2	1051755	Bracket, Mast Guard	C
13	2	1061348	Bracket, Mast Guard	B
	2	1051756	Bracket, Mast Guard	C
14	2	1013204	Grommet, Rubber	
15	1	1020661	Guard, Finger	

A= Contact Technical Support
B= Model 7400
C= Models 7420 and 7440
Note: Quantities are Typical and May Vary

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Baseleg Installation, R35TT, 5 x 3.62 in., Open Toe

Figure 7-31: Baseleg Installation, R35TT, 5 x 3.62 in., Open Toe



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List 7-31: Baseleg Installation, R35TT, 5 x 3.62 in., Open Toe

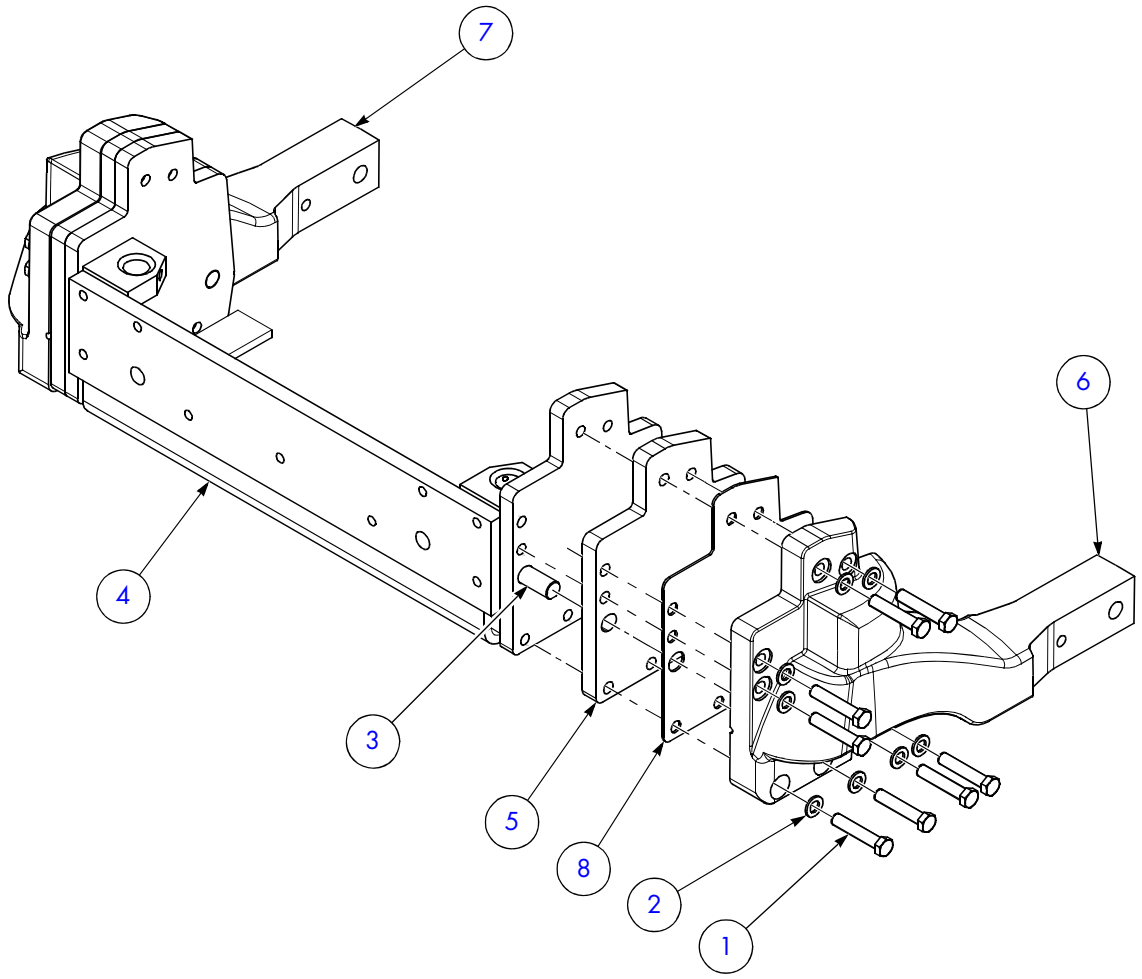
FIGURE 7-31 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/101	Brace, Main Frame, Lower	C
	1	1066253/102	Brace, Main Frame, Lower	D
5	2	1017476/002	Shim, Baseleg (35, 36, 39, 40, 43, 46, 47, 51, and 52 Baseleg Opening)	
6	1	1031632	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031644	Baseleg, Right-Hand (37 to 40 in. Baseleg Opening)	
	1	1031650	Baseleg, Right-Hand (41 to 43 in. Baseleg Opening)	
	1	1031662	Baseleg, Right-Hand (44 to 47 in. Baseleg Opening)	
	1	1031668	Baseleg, Right-Hand (49 to 52 in. Baseleg Opening)	
7	1	1031633	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031645	Baseleg, Left-Hand (37 to 40 in. Baseleg Opening)	
	1	1031651	Baseleg, Left-Hand (41 to 43 in. Baseleg Opening)	
	1	1031663	Baseleg, Left-Hand (44 to 47 in. Baseleg Opening)	
	1	1031669	Baseleg, Left-Hand (49 to 52 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer	

A= 33, 34, 37, 38, 41, 42, 44, 45, 49, and 50 in. Baseleg Opening
B= 35, 36, 39, 40, 43, 46, 47, 51, and 52 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, 44, 46, 49, and 51 in. Baseleg Opening
D= 34, 36, 38, 40, 42, 45, 47, 50, and 52 in. Baseleg Opening

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Baseleg Installation, R35TT, 5 x 3.62 in., Straddle Closed Toe

Figure 7-32: Baseleg Installation, R35TT, 5 x 3.62 in., Straddle Closed Toe



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List 7-32: Baseleg Installation, R35TT, 5 x 3.62 in., Straddle Closed Toe

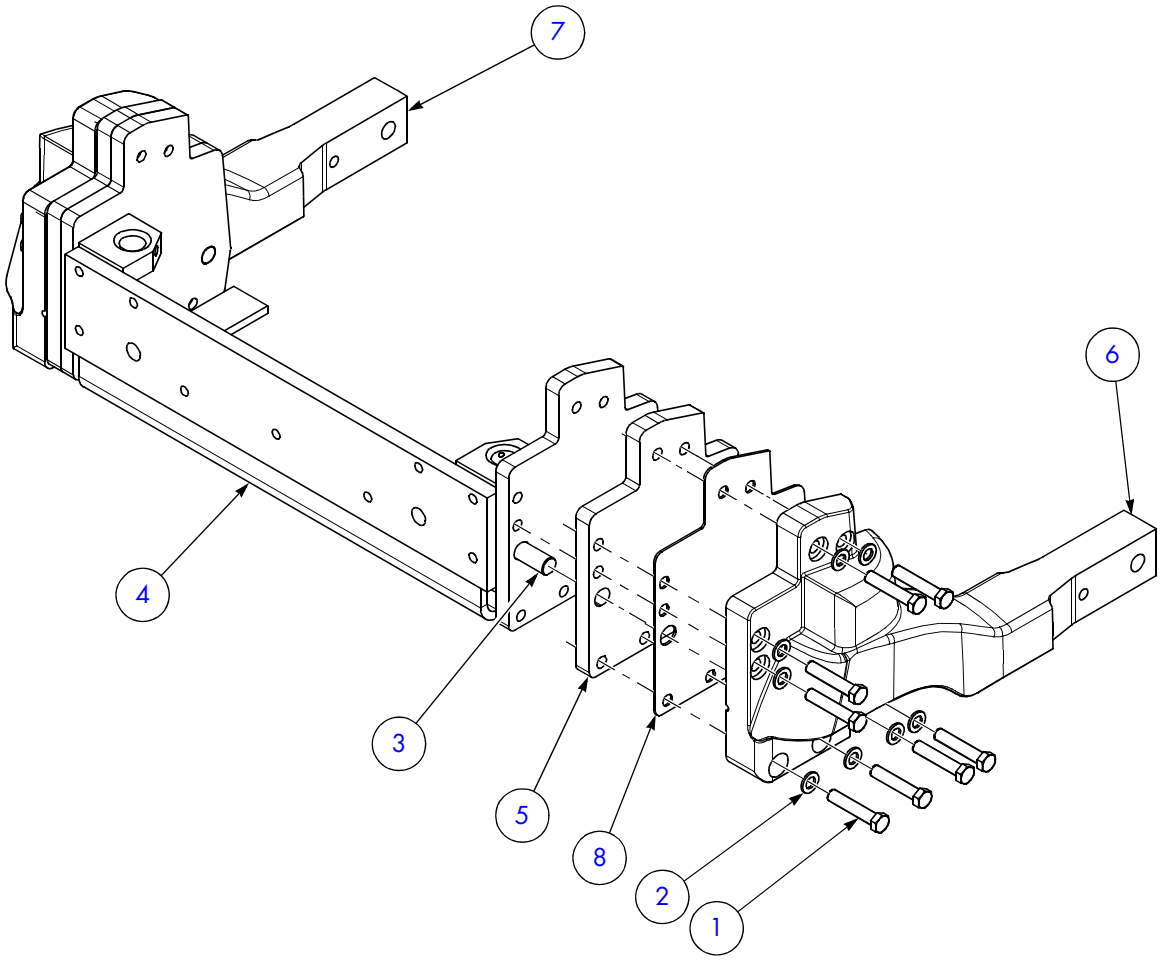
FIGURE 7-32 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/101	Brace, Main Frame, Lower	C
	1	1066253/102	Brace, Main Frame, Lower	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031634	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031646	Baseleg, Right-Hand (37 to 40 in. Baseleg Opening)	
	1	1031652	Baseleg, Right-Hand (41 to 43 in. Baseleg Opening)	
	1	1031664	Baseleg, Right-Hand (44 to 47 in. Baseleg Opening)	
	1	1031670	Baseleg, Right-Hand (49 to 52 in. Baseleg Opening)	
7	1	1031635	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031647	Baseleg, Left-Hand (37 to 40 in. Baseleg Opening)	
	1	1031653	Baseleg, Left-Hand (41 to 43 in. Baseleg Opening)	
	1	1031665	Baseleg, Left-Hand (44 to 47 in. Baseleg Opening)	
	1	1031671	Baseleg, Left-Hand (49 to 52 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer	

A= 33, 34, 37, 38, 41, 42, 44, 45, 49, and 50 in. Baseleg Opening
B= 35, 36, 39, 40, 43, 46, 47, 51, and 52 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, 44, 46, 49, and 51 in. Baseleg Opening
D= 34, 36, 38, 40, 42, 45, 47, 50, and 52 in. Baseleg Opening

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Baseleg Installation, R35TT, 5 x 2.88 in., Open Toe

Figure 7-33: Baseleg Installation, R35TT, 5 x 2.88 in., Open Toe



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List 7-33: Baseleg Installation, R35TT, 5 x 2.88 in., Open Toe

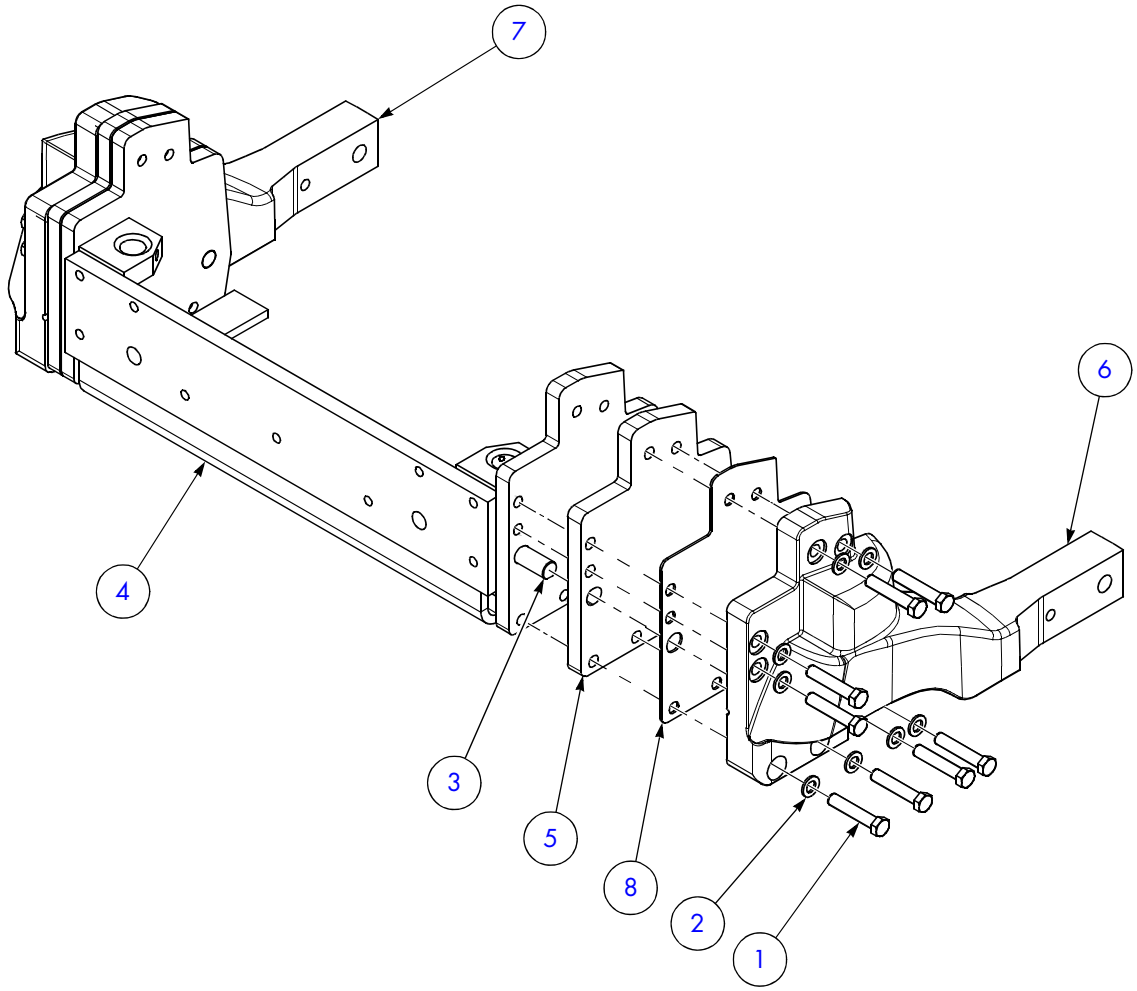
FIGURE 7-33 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/101	Brace, Main Frame, Lower	C
	1	1066253/102	Brace, Main Frame, Lower	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031638	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031656	Baseleg, Right-Hand (41 to 44 in. Baseleg Opening)	
7	1	1031639	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031657	Baseleg, Left-Hand (41 to 44 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer	

A= 33, 34, 41, and 42 in. Baseleg Opening
B= 35, 36, 43, and 44 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, and 44 in. Baseleg Opening
D= 34, 36, 38, 40, and 42 in. Baseleg Opening

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Baseleg Installation, R35TT, 5 x 2.88 in., Straddle Closed Toe

Figure 7-34: Baseleg Installation, R35TT, 5 x 2.88 in., Straddle Closed Toe



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List 7-34: Baseleg Installation, R35TT, 5 x 2.88 in., Straddle Closed Toe

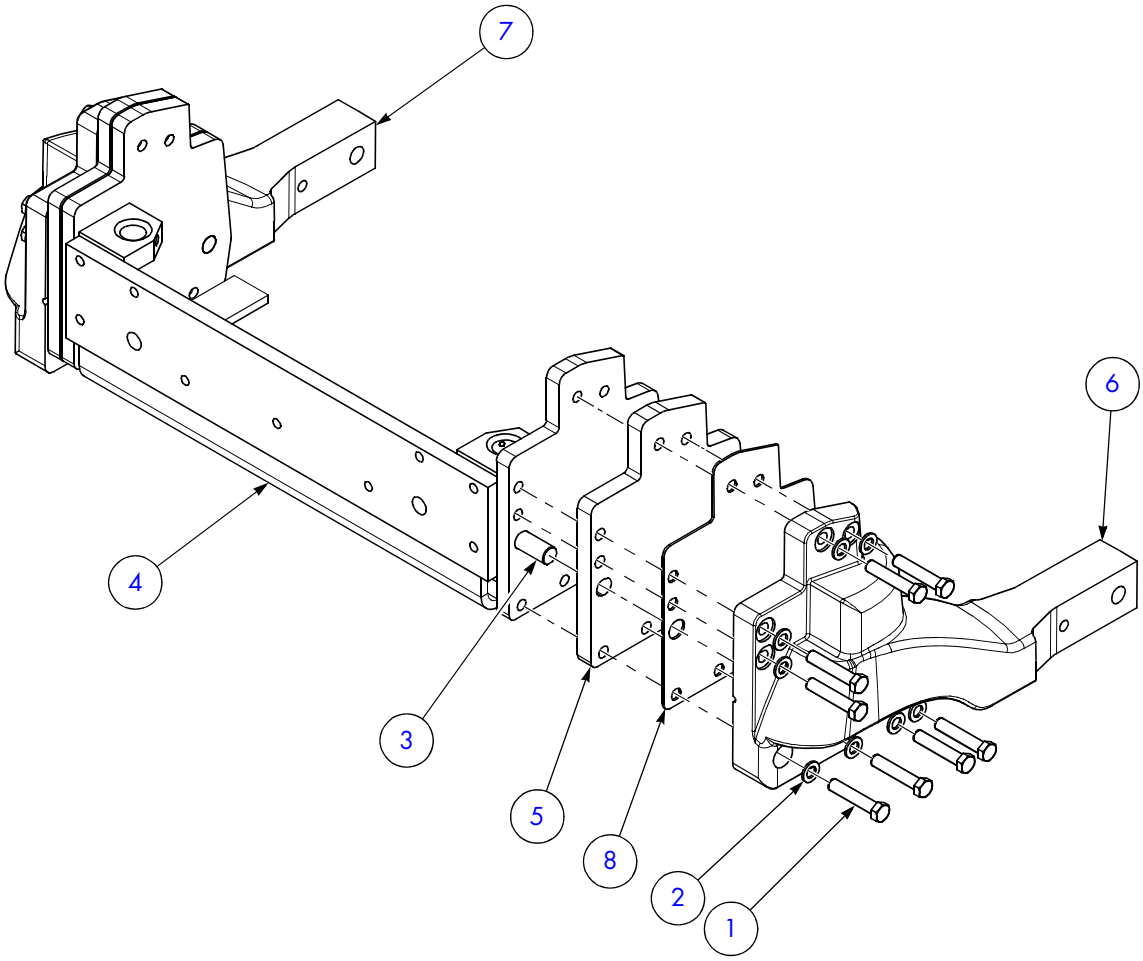
FIGURE 7-34 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/101	Brace, Main Frame, Lower	C
	1	1066253/102	Brace, Main Frame, Lower	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031640	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031658	Baseleg, Right-Hand (41 to 44 in. Baseleg Opening)	
7	1	1031641	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031659	Baseleg, Left-Hand (41 to 44 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer	

A= 33, 34, 41, and 42 in. Baseleg Opening
B= 35, 36, 43, and 44 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, and 44 in. Baseleg Opening
D= 34, 36, 38, 40, and 42 in. Baseleg Opening

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Baseleg Installation, R35TT, 4 x 3.62 in., Closed Toe

Figure 7-35: Baseleg Installation, R35TT, 4 x 3.62 in., Closed Toe



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List 7-35: Baseleg Installation, R35TT, 4 x 3.62 in., Closed Toe

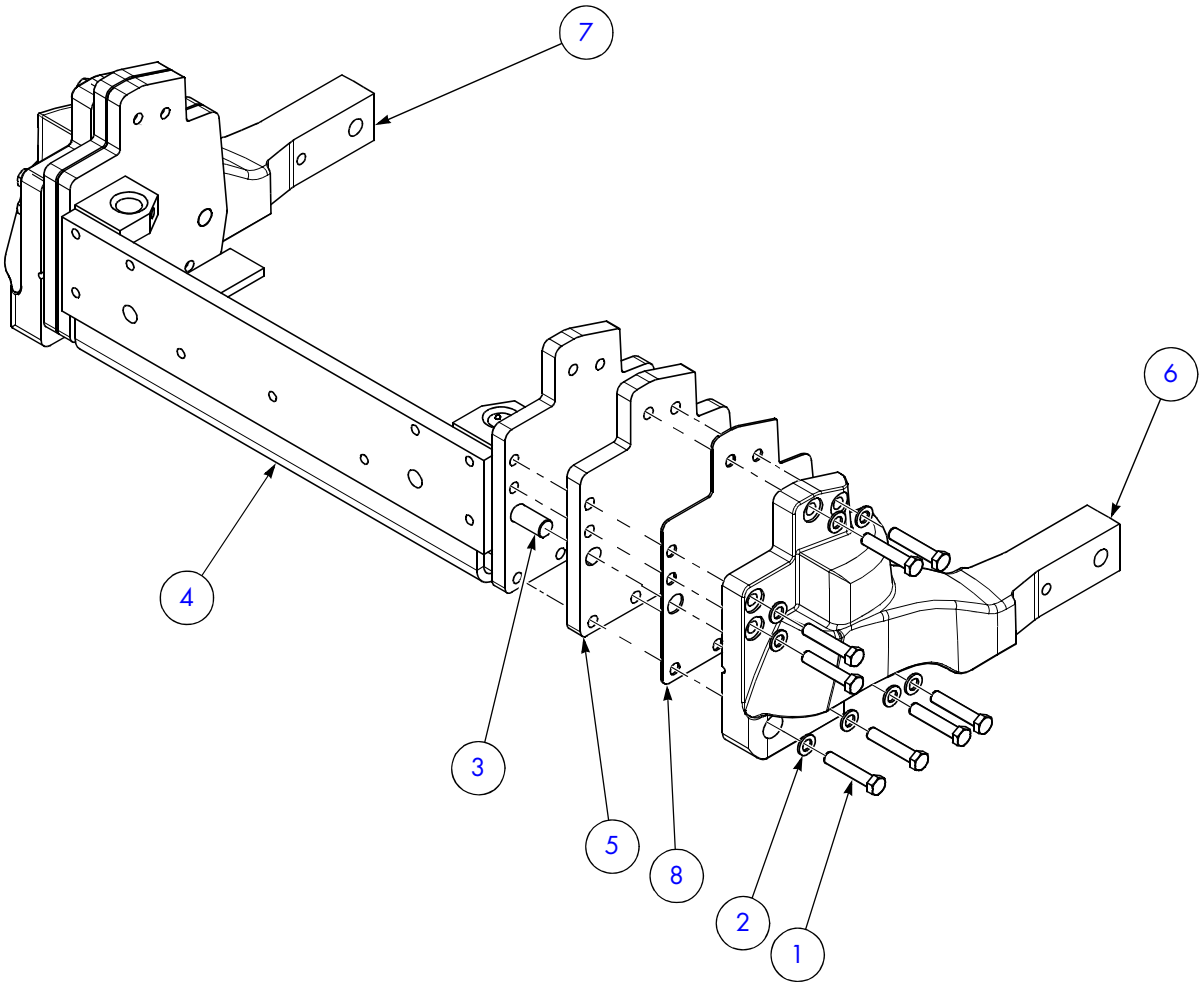
FIGURE 7-35 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/101	Brace, Machined, Main Frame	C
	1	1066253/102	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031636	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031648	Baseleg, Right-Hand (37 to 40 in. Baseleg Opening)	
	1	1031654	Baseleg, Right-Hand (41 to 43 in. Baseleg Opening)	
	1	1031666	Baseleg, Right-Hand (44 to 47 in. Baseleg Opening)	
	1	1031672	Baseleg, Right-Hand (49 to 52 in. Baseleg Opening)	
7	1	1031637	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031649	Baseleg, Left-Hand (37 to 40 in. Baseleg Opening)	
	1	1031655	Baseleg, Left-Hand (41 to 43 in. Baseleg Opening)	
	1	1031667	Baseleg, Left-Hand (44 to 47 in. Baseleg Opening)	
	1	1031673	Baseleg, Left-Hand (49 to 52 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer	

A= 33, 34, 37, 38, 41, 42, 44, 45, 49, and 50 in. Baseleg Opening
B= 35, 36, 39, 40, 43, 44, 46, 47, 51, and 52 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, 44, 46, 49, and 51 in. Baseleg Opening
D= 34, 36, 38, 40, 42, 45, 47, 50, and 52 in. Baseleg Opening

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Baseleg Installation, R35TT, 4 x 2.88 in., Closed Toe

Figure 7-36: Baseleg Installation, R35TT, 4 x 2.88 in., Closed Toe



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List 7-36: Baseleg Installation, R35TT, 4 x 2.88 in., Closed Toe

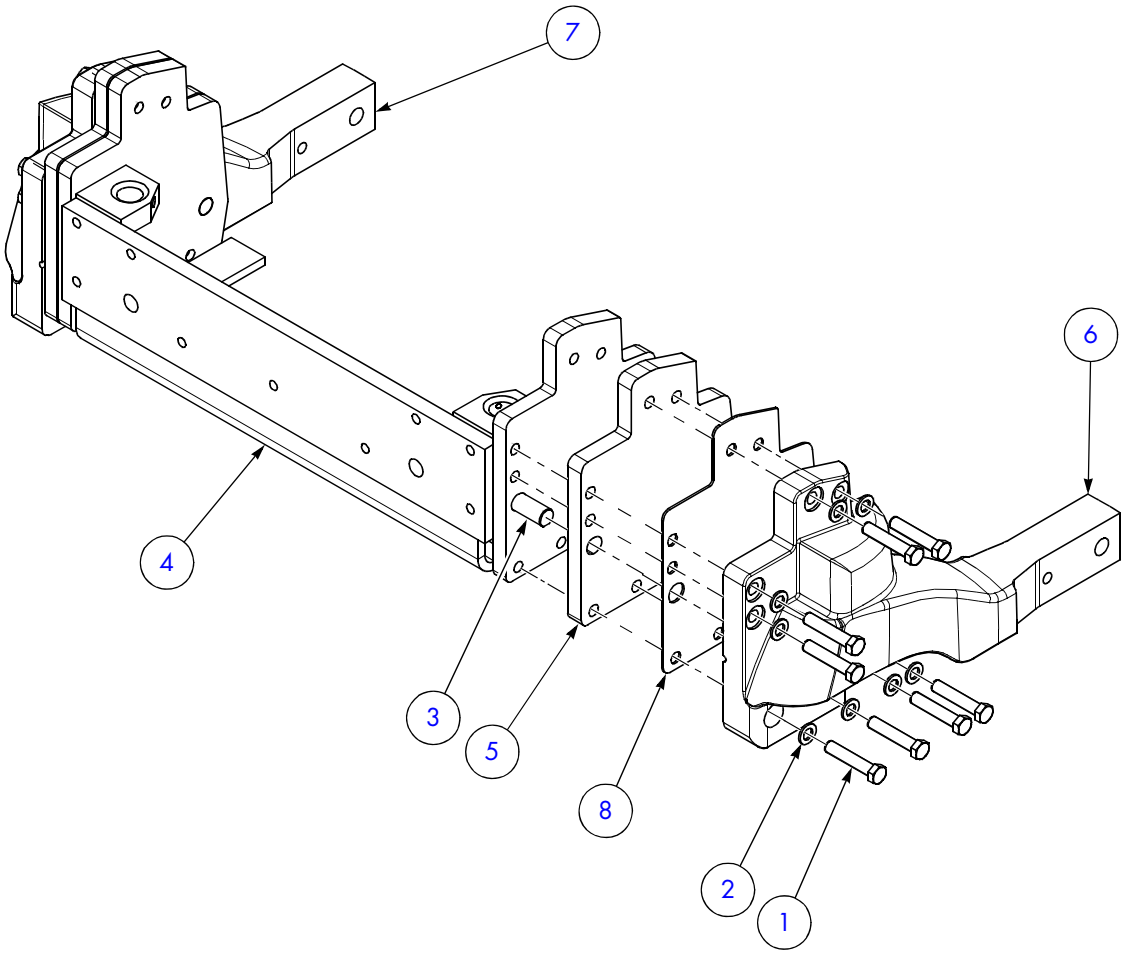
FIGURE 7-36 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/101	Brace, Machined, Main Frame	C
	1	1066253/102	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031642	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031660	Baseleg, Right-Hand (41 to 44 in. Baseleg Opening)	
7	1	1031643	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031661	Baseleg, Left-Hand (41 to 44 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer Outrigger	

A= 33, 34, 41, and 42 in. Baseleg Opening
B= 35, 36, 43, and 44 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, and 44 in. Baseleg Opening
D= 34, 36, 38, 40, and 42 in. Baseleg Opening

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Baseleg Installation, R45TT, 5 x 3.62 in., Open Toe

Figure 7-37: Baseleg Installation, R45TT, 5 x 3.62 in., Open Toe



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List 7-37: Baseleg Installation, R45TT, 5 x 3.62 in., Open Toe

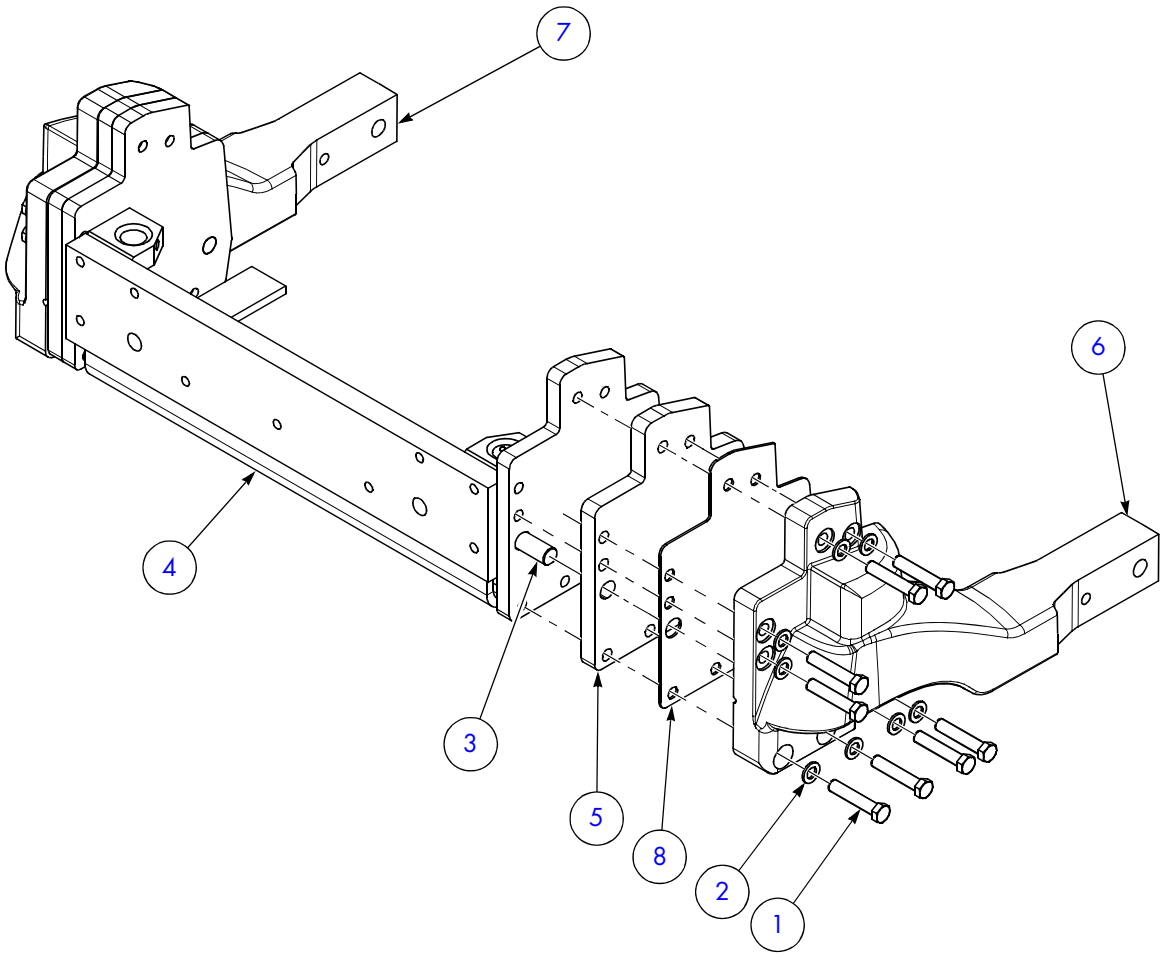
FIGURE 7-37 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/001	Brace, Machined, Main Frame	C
	1	1066253/002	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031433	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031446	Baseleg, Right-Hand (37 to 40 in. Baseleg Opening)	
	1	1031452	Baseleg, Right-Hand (41 to 43 in. Baseleg Opening)	
	1	1031464	Baseleg, Right-Hand (44 to 47 in. Baseleg Opening)	
	1	1031470	Baseleg, Right-Hand (49 to 52 in. Baseleg Opening)	
7	1	1031434	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031447	Baseleg, Left-Hand (37 to 40 in. Baseleg Opening)	
	1	1031453	Baseleg, Left-Hand (41 to 43 in. Baseleg Opening)	
	1	1031465	Baseleg, Left-Hand (44 to 47 in. Baseleg Opening)	
	1	1031471	Baseleg, Left-Hand (49 to 52 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer Outrigger	

A= 33, 34, 37, 38, 41, 42, 44, 45, 49, and 50 in. Baseleg Opening
B= 35, 36, 39, 40, 43, 46, 47, 51, and 52 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, 44, 46, 49, and 51 in. Baseleg Opening
D= 34, 36, 38, 40, 42, 45, 47, 50, and 52 in. Baseleg Opening

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Baseleg Installation, R45TT, 5 x 3.62 in., Closed Toe

Figure 7-38: Baseleg Installation, R45TT, 5 x 3.62 in., Closed Toe



R1018427_B

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List 7-38: Baseleg Installation, R45TT, 5 x 3.62 in., Closed Toe

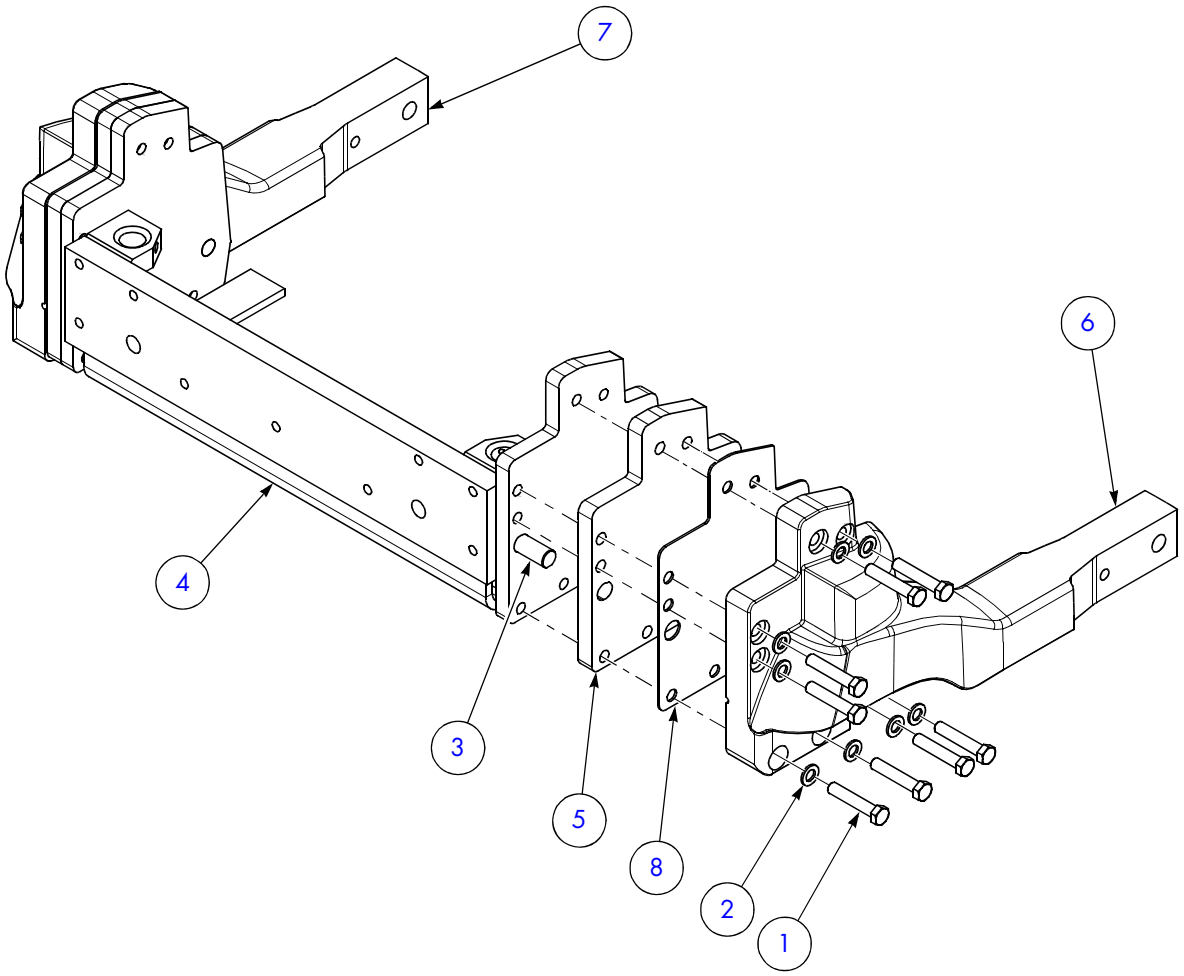
FIGURE 7-38 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/001	Brace, Machined, Main Frame	C
	1	1066253/002	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031435	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031448	Baseleg, Right-Hand (37 to 40 in. Baseleg Opening)	
	1	1031454	Baseleg, Right-Hand (41 to 43 in. Baseleg Opening)	
	1	1031466	Baseleg, Right-Hand (44 to 47 in. Baseleg Opening)	
	1	1031472	Baseleg, Right-Hand (49 to 52 in. Baseleg Opening)	
7	1	1031437	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031449	Baseleg, Left-Hand (37 to 40 in. Baseleg Opening)	
	1	1031455	Baseleg, Left-Hand (41 to 43 in. Baseleg Opening)	
	1	1031467	Baseleg, Left-Hand (44 to 47 in. Baseleg Opening)	
	1	1031473	Baseleg, Left-Hand (49 to 52 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer Outrigger	

A= 33, 34, 37, 38, 41, 42, 44, 45, 49, and 50 in. Baseleg Opening
B= 35, 36, 39, 40, 43, 46, 47, 51, and 52 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, 44, 46, 49, and 51 in. Baseleg Opening
D= 34, 36, 38, 40, 42, 45, 47, 50, and 52 in. Baseleg Opening

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Baseleg Installation, R45TT, 5 x 2.88 in., Open Toe

Figure 7-39: Baseleg Installation, R45TT, 5 x 2.88 in., Open Toe



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List 7-39: Baseleg Installation, R45TT, 5 x 2.88 in., Open Toe

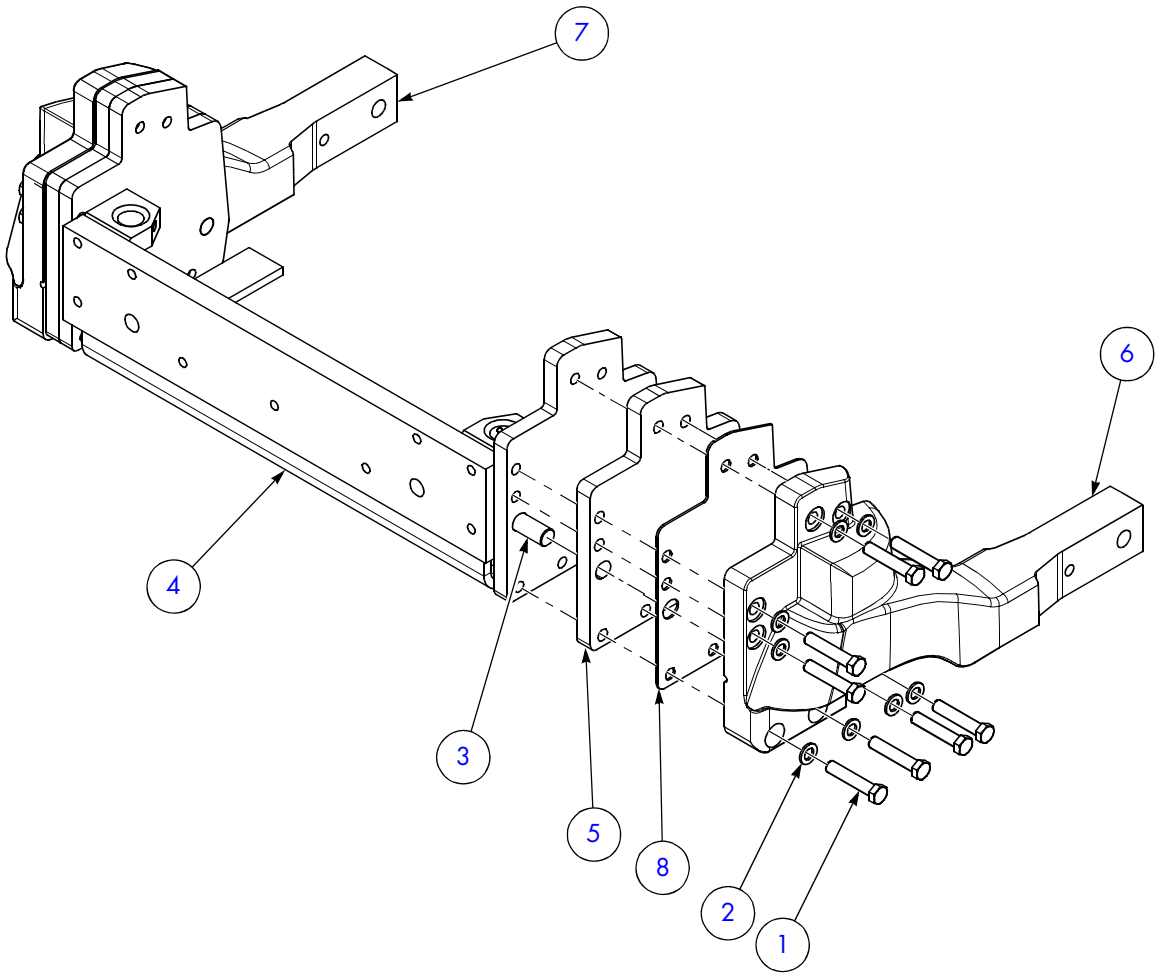
FIGURE 7-39 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	C
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/001	Brace, Machined, Main Frame	C
	1	1066253/002	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	C
6	1	1031440	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031458	Baseleg, Right-Hand (41 to 44 in. Baseleg Opening)	
7	1	1031441	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031459	Baseleg, Left-Hand (41 to 44 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer Outrigger	

A= 33, 34, 41, and 42 in. Baseleg Opening
B= 35, 36, 43, and 44 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, and 44 in. Baseleg Opening
D= 34, 36, 38, 40, and 42 in. Baseleg Opening

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Baseleg Installation, R45TT, 5 x 2.88 in., Closed Toe

Figure 7-40: Baseleg Installation, R45TT, 5 x 2.88 in., Closed Toe



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List 7-40: Baseleg Installation, R45TT, 5 x 2.88 in., Closed Toe

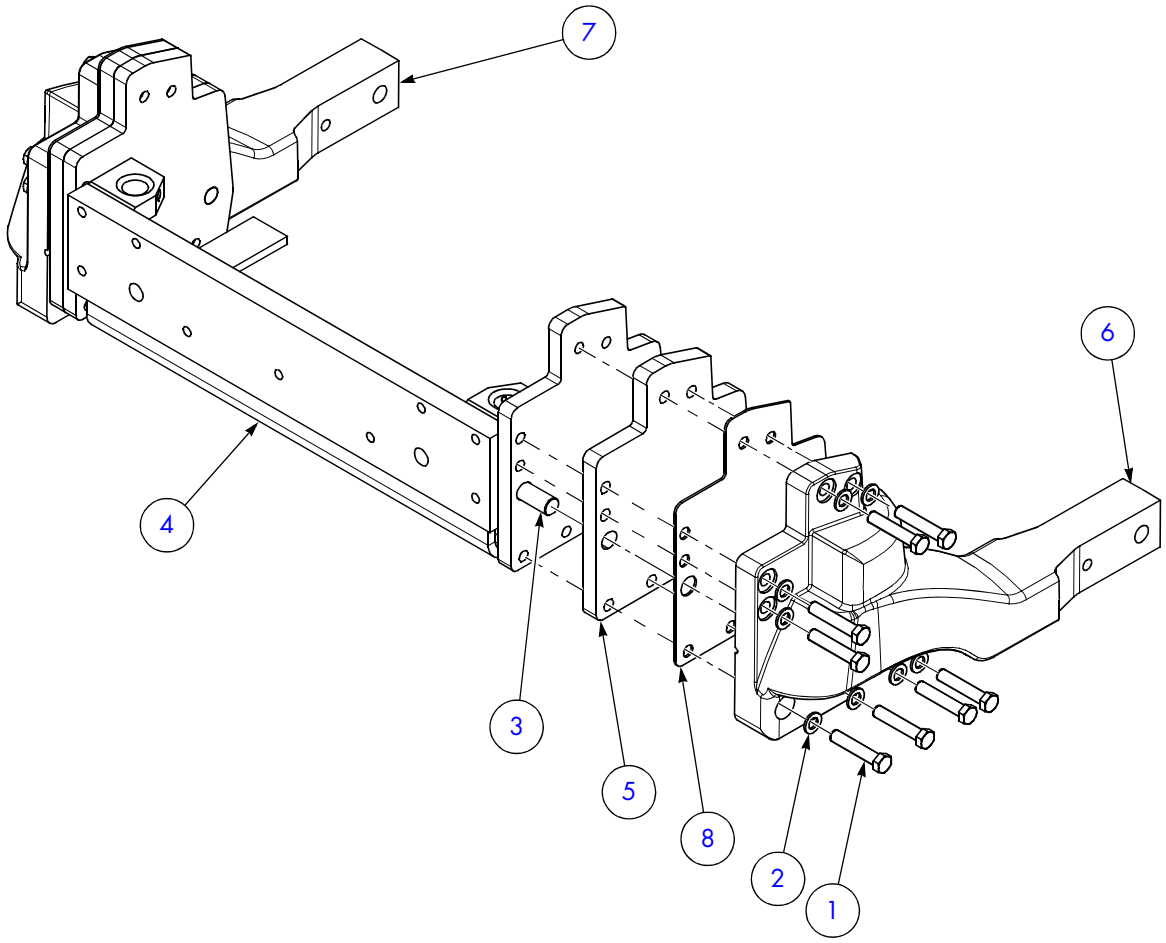
FIGURE 7-40 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/001	Brace, Machined, Main Frame	C
	1	1066253/002	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031442	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031460	Baseleg, Right-Hand (41 to 44 in. Baseleg Opening)	
7	1	1031443	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031461	Baseleg, Left-Hand (41 to 44 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer Outrigger	

A= 33, 34, 41, and 42 in. Baseleg Opening
B= 35, 36, 43, and 44 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, and 44 in. Baseleg Opening
D= 34, 36, 38, 40, and 42 in. Baseleg Opening

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Baseleg Installation, R45TT, 4 x 3.62 in., Closed Toe

Figure 7-41: Baseleg Installation, R45TT, 4 x 3.62 in., Closed Toe



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List 7-41: Baseleg Installation, R45TT, 4 x 3.62 in., Closed Toe

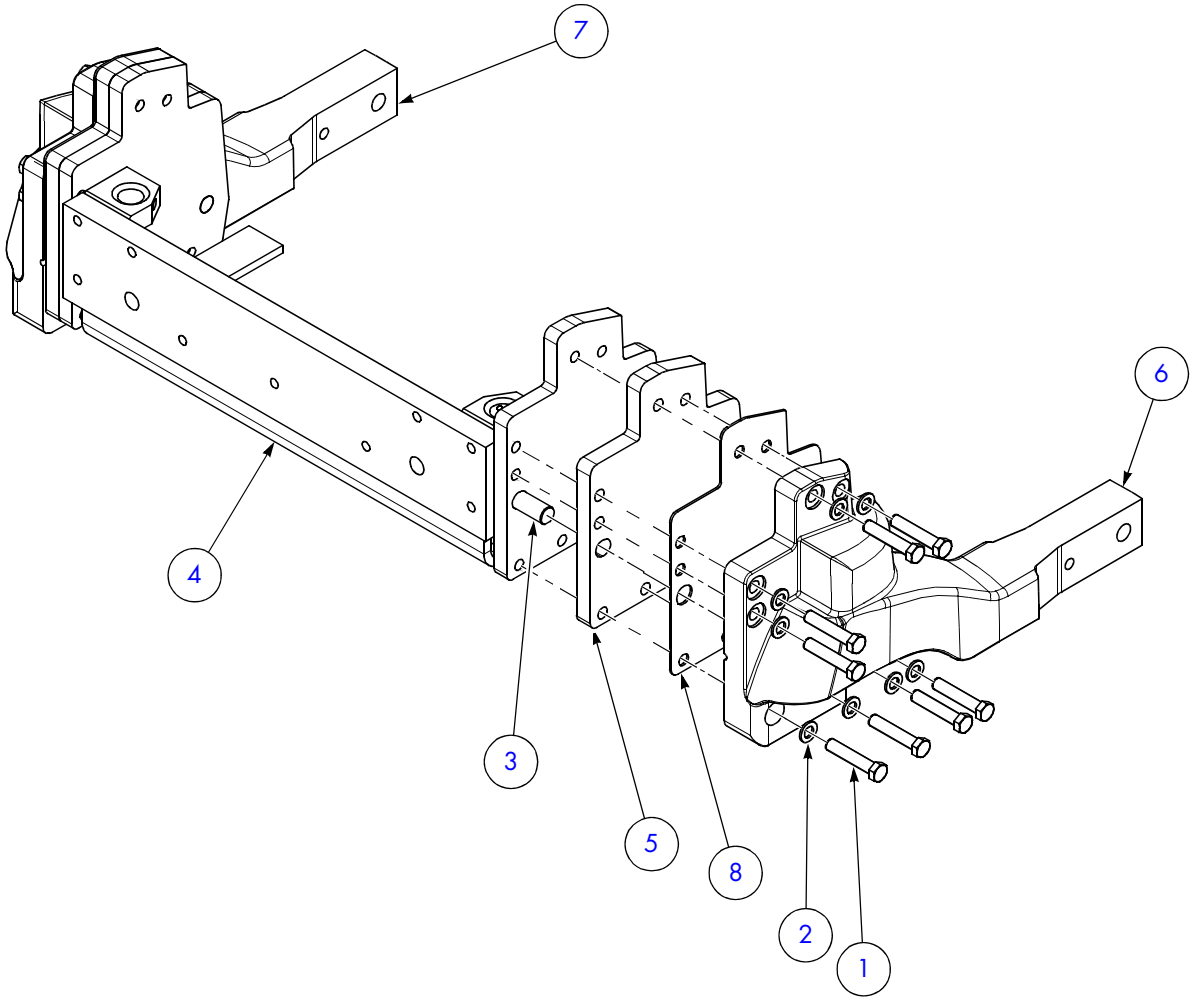
FIGURE 7-41 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/001	Brace, Machined, Main Frame	C
	1	1066253/002	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031438	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031450	Baseleg, Right-Hand (37 to 40 in. Baseleg Opening)	
	1	1031456	Baseleg, Right-Hand (41 to 43 in. Baseleg Opening)	
	1	1031468	Baseleg, Right-Hand (44 to 47 in. Baseleg Opening)	
	1	1031474	Baseleg, Right-Hand (49 to 52 in. Baseleg Opening)	
7	1	1031439	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031451	Baseleg, Left-Hand (37 to 40 in. Baseleg Opening)	
	1	1031457	Baseleg, Left-Hand (41 to 43 in. Baseleg Opening)	
	1	1031469	Baseleg, Left-Hand (44 to 47 in. Baseleg Opening)	
	1	1031475	Baseleg, Left-Hand (49 to 52 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer Outrigger	

A= 33, 34, 37, 38, 41, 42, 44, 45, 49, and 50 in. Baseleg Opening
B= 35, 36, 39, 40, 43, 46, 47, 51, and 52 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, 44, 46, 49, and 51 in. Baseleg Opening
D= 34, 36, 38, 40, 42, 45, 47, 50, and 52 in. Baseleg Opening

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Baseleg Installation, R45TT, 4 x 2.88 in., Closed Toe

Figure 7-42: Baseleg Installation, R45TT, 4 x 2.88 in., Closed Toe



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List 7-42: Baseleg Installation, R45TT, 4 x 2.88 in., Closed Toe

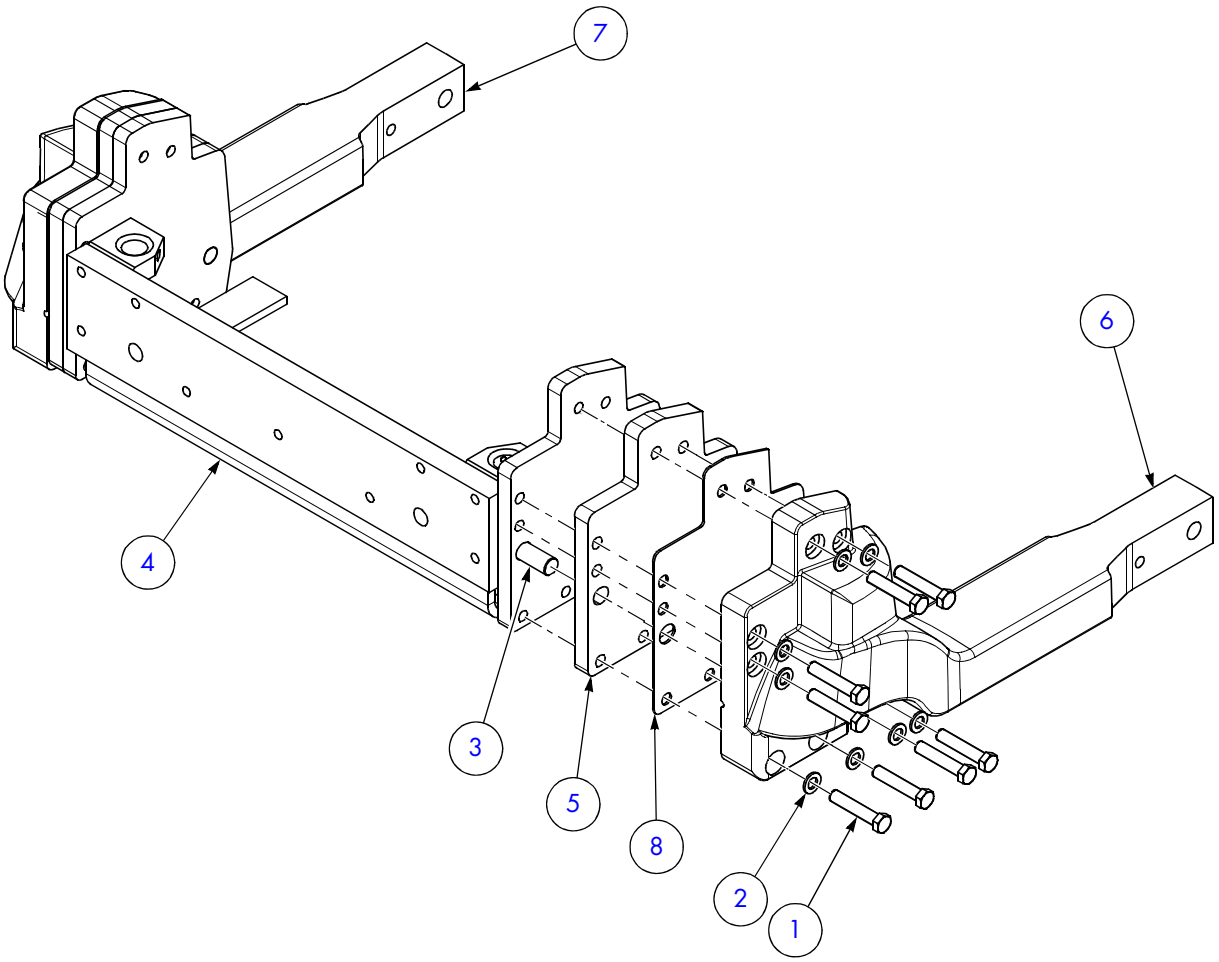
FIGURE 7-42 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/001	Brace, Machined, Main Frame	C
	1	1066253/002	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031444	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031462	Baseleg, Right-Hand (41 to 44 in. Baseleg Opening)	
7	1	1031445	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031463	Baseleg, Left-Hand (41 to 44 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer Outrigger	

A= 33, 34, 41, and 42 in. Baseleg Opening
B= 35, 36, 43, and 44 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, and 44 in. Baseleg Opening
D= 34, 36, 38, 40, and 42 in. Baseleg Opening

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Baseleg Installation, DR32TT, 5 x 3.62 in., Closed Toe

Figure 7-43: Baseleg Installation, DR32TT, 5 x 3.62 in., Closed Toe



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List 7-43: Baseleg Installation, DR32TT, 5 x 3.62 in., Closed Toe

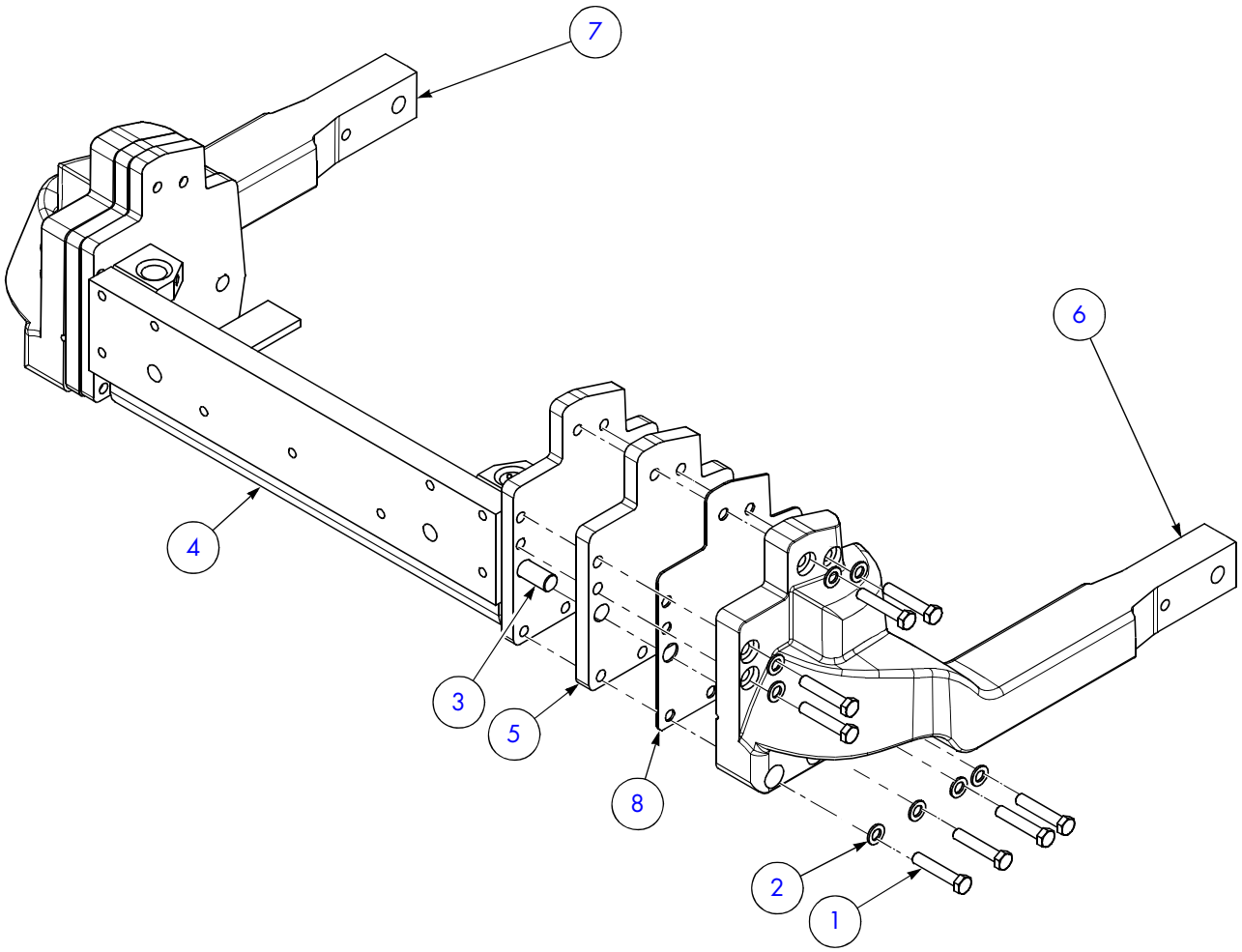
FIGURE 7-43 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/001	Brace, Machined, Main Frame	C
	1	1066253/002	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031496	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031500	Baseleg, Right-Hand (37 to 40 in. Baseleg Opening)	
	1	1031504	Baseleg, Right-Hand (41 to 44 in. Baseleg Opening)	
	1	1031512	Baseleg, Right-Hand (49 to 52 in. Baseleg Opening)	
7	1	1031497	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031501	Baseleg, Left-Hand (37 to 40 in. Baseleg Opening)	
	1	1031505	Baseleg, Left-Hand (41 to 44 in. Baseleg Opening)	
	1	1031513	Baseleg, Left-Hand (49 to 52 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer Outrigger	

A= 33, 34, 37, 38, 41, 42, 44, 45, 49, and 50 in. Baseleg Opening
B= 35, 36, 39, 40, 43, 46, 47, 51, and 52 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, 44, 46, 49, and 51 in. Baseleg Opening
D= 34, 36, 38, 40, 42, 45, 47, 50, and 52 in. Baseleg Opening

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Baseleg Installation, DR32TT, 5 x 2.88 in., Closed Toe

Figure 7-44: Baseleg Installation, DR32TT, 5 x 2.88 in., Closed Toe



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List 7-44: Baseleg Installation, DR32TT, 5 x 2.88 in., Closed Toe

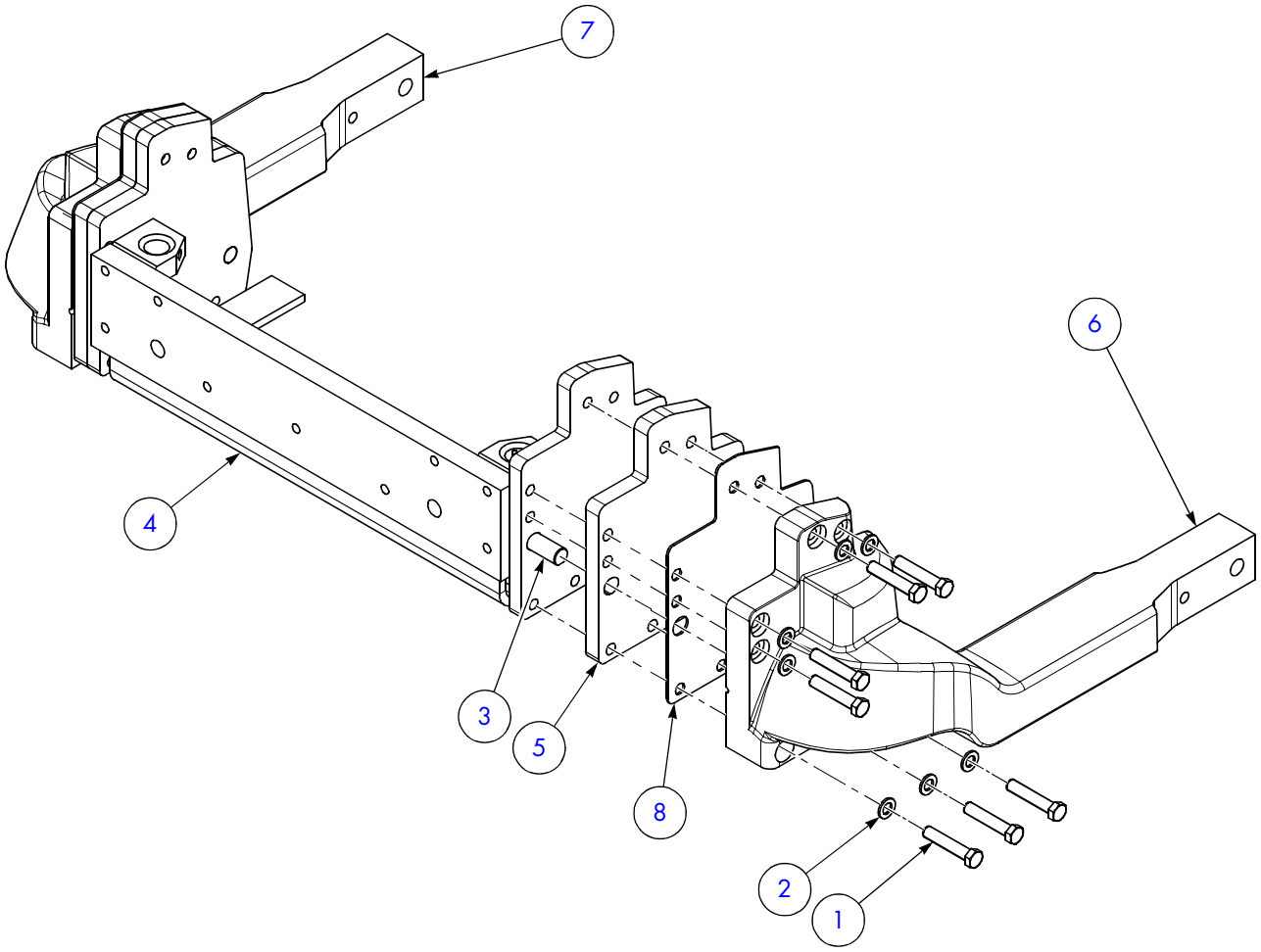
FIGURE 7-44 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/001	Brace, Machined, Main Frame	C
	1	1066253/002	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031508	Baseleg, Right-Hand (41 to 44 in. Baseleg Opening)	
	1	1031516	Baseleg, Right-Hand (49 to 52 in. Baseleg Opening)	
7	1	1031509	Baseleg, Left-Hand (41 to 44 in. Baseleg Opening)	
	1	1031517	Baseleg, Left-Hand (49 to 52 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer Outrigger	

A= 41, 42, 49, and 50 in. Baseleg Opening
B= 43, 44, 51, and 52 in. Baseleg Opening
C= 41, 43, 44, 49, and 51 in. Baseleg Opening
D= 42, 50, and 52 in. Baseleg Opening

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Baseleg Installation, DR32TT, 4 x 3.62 in., Closed Toe

Figure 7-45: Baseleg Installation, DR32TT, 4 x 3.62 in., Closed Toe



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List 7-45: Baseleg Installation, DR32TT, 4 x 3.62 in., Closed Toe

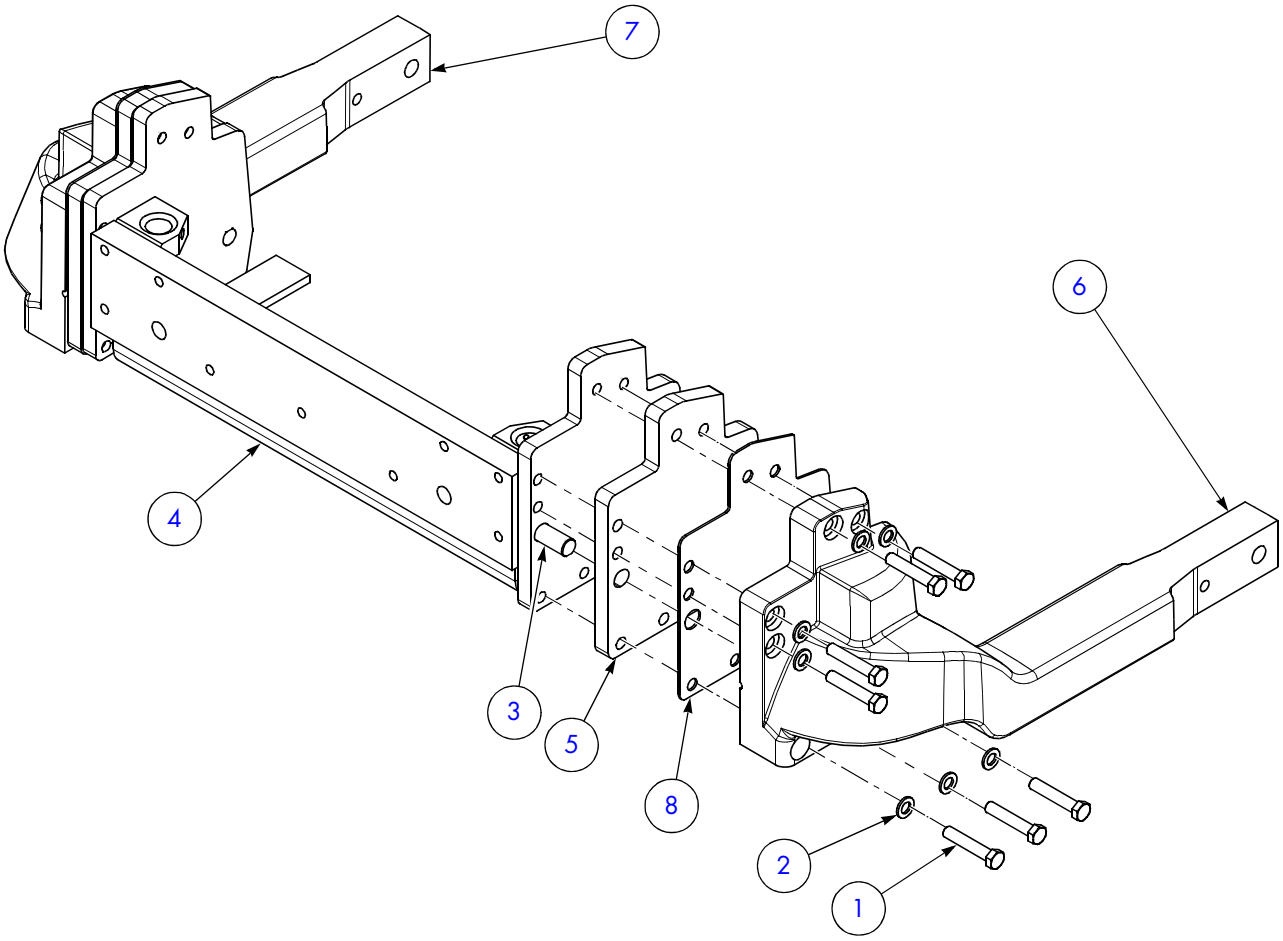
FIGURE 7-45 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/001	Brace, Machined, Main Frame	C
	1	1066253/002	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	C
6	1	1031498	Baseleg, Right-Hand (33 to 36 in. Baseleg Opening)	
	1	1031502	Baseleg, Right-Hand (37 to 40 in. Baseleg Opening)	
	1	1031506	Baseleg, Right-Hand (41 to 44 in. Baseleg Opening)	
	1	1031514	Baseleg, Right-Hand (49 to 52 in. Baseleg Opening)	
7	1	1031499	Baseleg, Left-Hand (33 to 36 in. Baseleg Opening)	
	1	1031503	Baseleg, Left-Hand (37 to 40 in. Baseleg Opening)	
	1	1031507	Baseleg, Left-Hand (41 to 44 in. Baseleg Opening)	
	1	1031515	Baseleg, Left-Hand (49 to 52 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer Outrigger	

A= 33, 34, 37, 38, 41, 42, 49, and 50 in. Baseleg Opening
B= 35, 36, 39, 40, 43, 44, 51, and 52 in. Baseleg Opening
C= 33, 35, 37, 39, 41, 43, 44, 49, and 51 in. Baseleg Opening
D= 34, 36, 38, 40, 42, 50, and 52 in. Baseleg Opening

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Baseleg Installation, DR32TT, 4 x 2.88 in., Closed Toe

Figure 7-46: Baseleg Installation, DR32TT, 4 x 2.88 in., Closed Toe



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List 7-46: Baseleg Installation, DR32TT, 4 x 2.88 in., Closed Toe

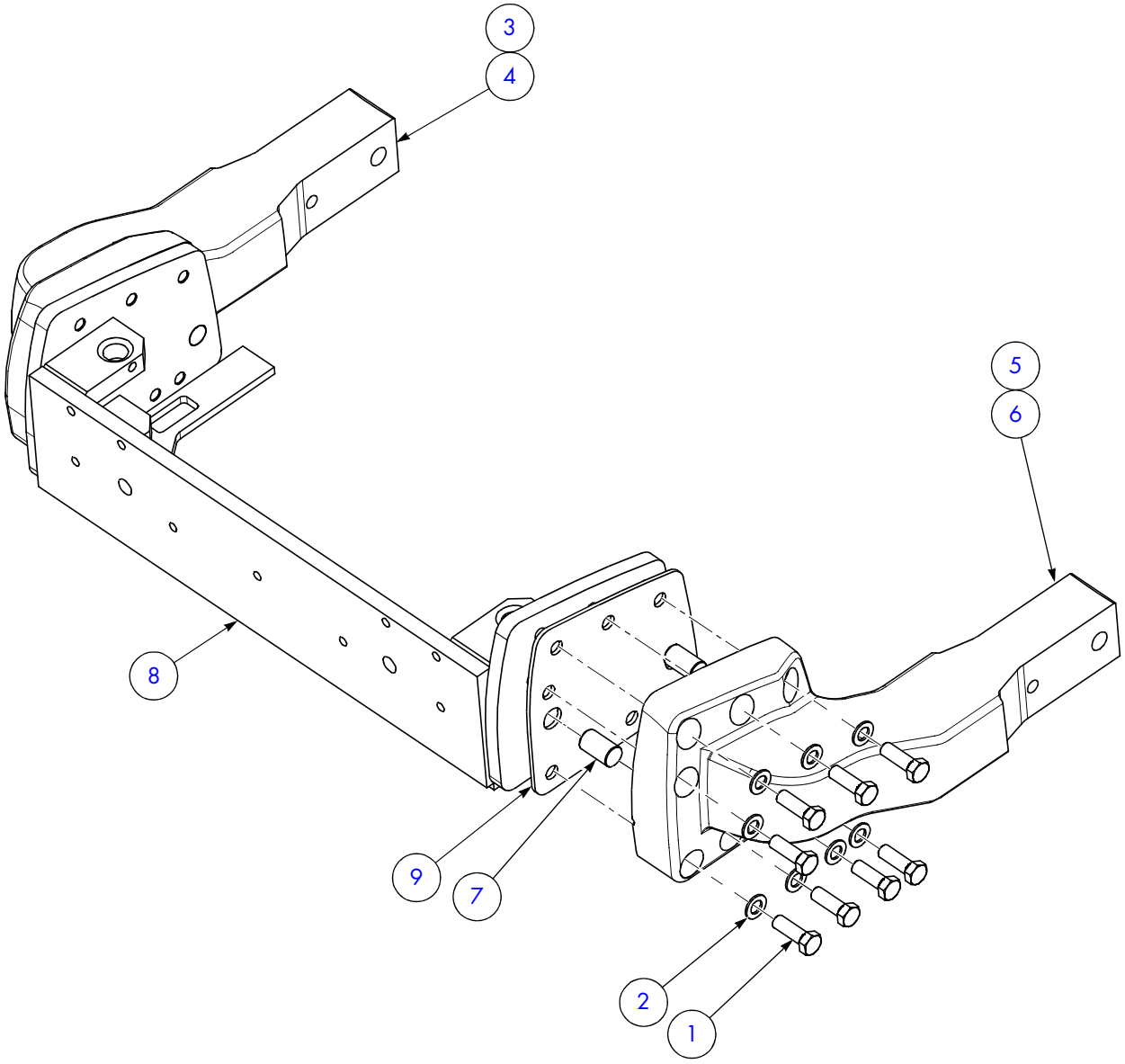
FIGURE 7-46 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-047	Screw	A
	16	5-001-049	Screw	B
2	16	5-018-009	Washer, Flat	
3	4	1012796/005	Pin, Dowel	A
	4	1012796/006	Pin, Dowel	B
4	1	1066253/001	Brace, Machined, Main Frame	C
	1	1066253/002	Brace, Machined, Main Frame	D
5	2	1017476/002	Shim, Baseleg	B
6	1	1031510	Baseleg, Right-Hand (41 to 44 in. Baseleg Opening)	
	1	1031518	Baseleg, Right-Hand (49 to 52 in. Baseleg Opening)	
7	1	1031511	Baseleg, Left-Hand (41 to 44 in. Baseleg Opening)	
	1	1031519	Baseleg, Left-Hand (49 to 52 in. Baseleg Opening)	
8	AR	1053013	Shim, Spacer Outrigger	

A= 41 and 49 in. BLO (Baseleg Opening)
B= 42 and 50 in. BLO (Baseleg Opening)
C= 43 and 51 in. BLO (Baseleg Opening)
D= 44 and 52 in. BLO (Baseleg Opening)

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Baseleg Installation, R45TT, 6 x 4 in., Open Toe, Models 7420 and 7440

Figure 7-47: Baseleg Installation, R45TT, 6 x 4 in., Open Toe, Models 7420 and 7440



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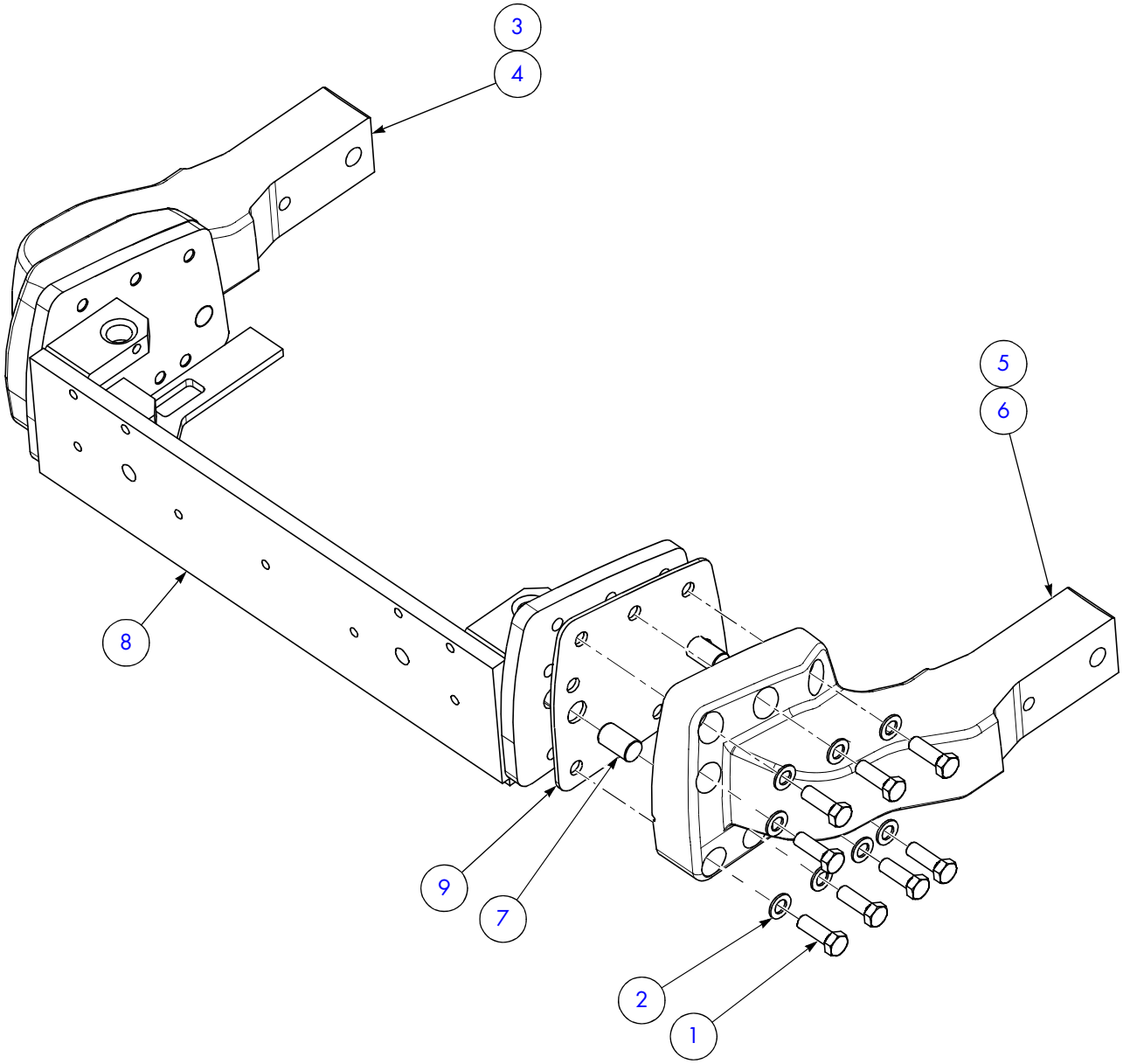
List 7-47: Baseleg Installation, R45TT, 6 x 4 in., Open Toe, Models 7420 and 7440

FIGURE 7-47 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-042	Screw	
2	16	5-018-010	Washer, Flat	
3	1	1038148	Baseleg, Left-Hand (42 in. Baseleg Opening)	
4	1	1038150	Baseleg, Left-Hand (45 in. Baseleg Opening)	
5	1	1038149	Baseleg, Right-Hand (42 in. Baseleg Opening)	
6	1	1038151	Baseleg, Right-Hand (45 in. Baseleg Opening)	
7	4	1045951	Pin, Dowel	
8	1	1048132	Brace, Machined, Main Frame	
9	AR	1076165	Spacer	

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Baseleg Installation, R45TT, 6 x 4 in., Closed Toe, Models 7420 and 7440

Figure 7-48: Baseleg Installation, R45TT, 6 x 4 in., Closed Toe, Models 7420 and 7440



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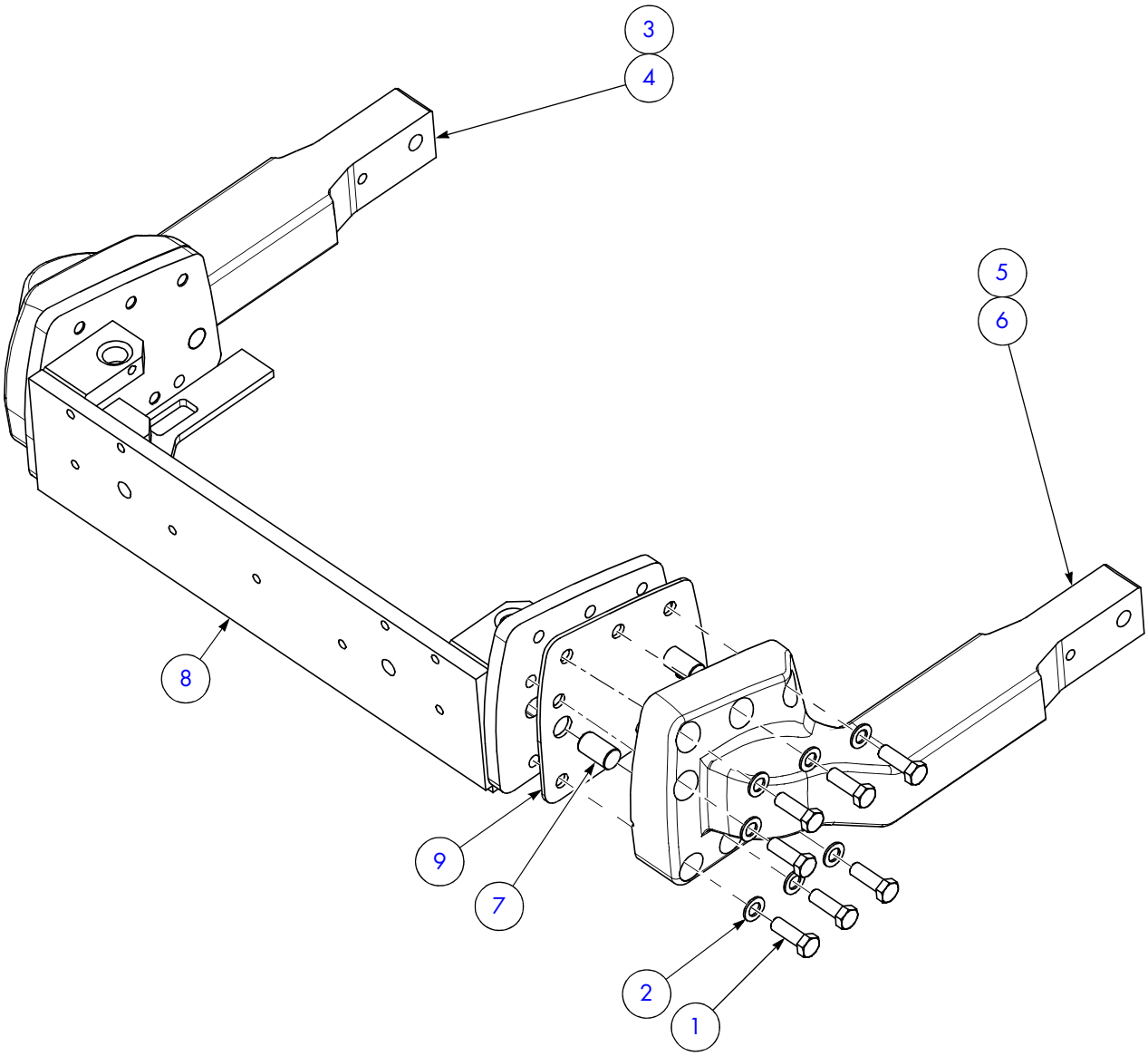
List 7-48: Baseleg Installation, R45TT, 6 x 4 in., Closed Toe, Models 7420 and 7440

FIGURE 7-48 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-042	Screw	
2	16	5-018-010	Washer, Flat	
3	1	1038187	Baseleg, Left-Hand (42 in. Baseleg Opening)	
4	1	1038192	Baseleg, Left-Hand (45 in. Baseleg Opening)	
5	1	1038188	Baseleg, Right-Hand (42 in. Baseleg Opening)	
6	1	1038193	Baseleg, Right-Hand (45 in. Baseleg Opening)	
7	4	1045951	Pin, Dowel	
8	1	1048132	Brace, Machined, Main Frame	
9	AR	1076165	Spacer	

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Baseleg Installation, DR32TT, 5 x 3.62 in., Closed Toe, Models 7420 and 7440

Figure 7-49: Baseleg Installation, DR32TT, 5 x 3.62 in., Closed Toe, Models 7420 and 7440



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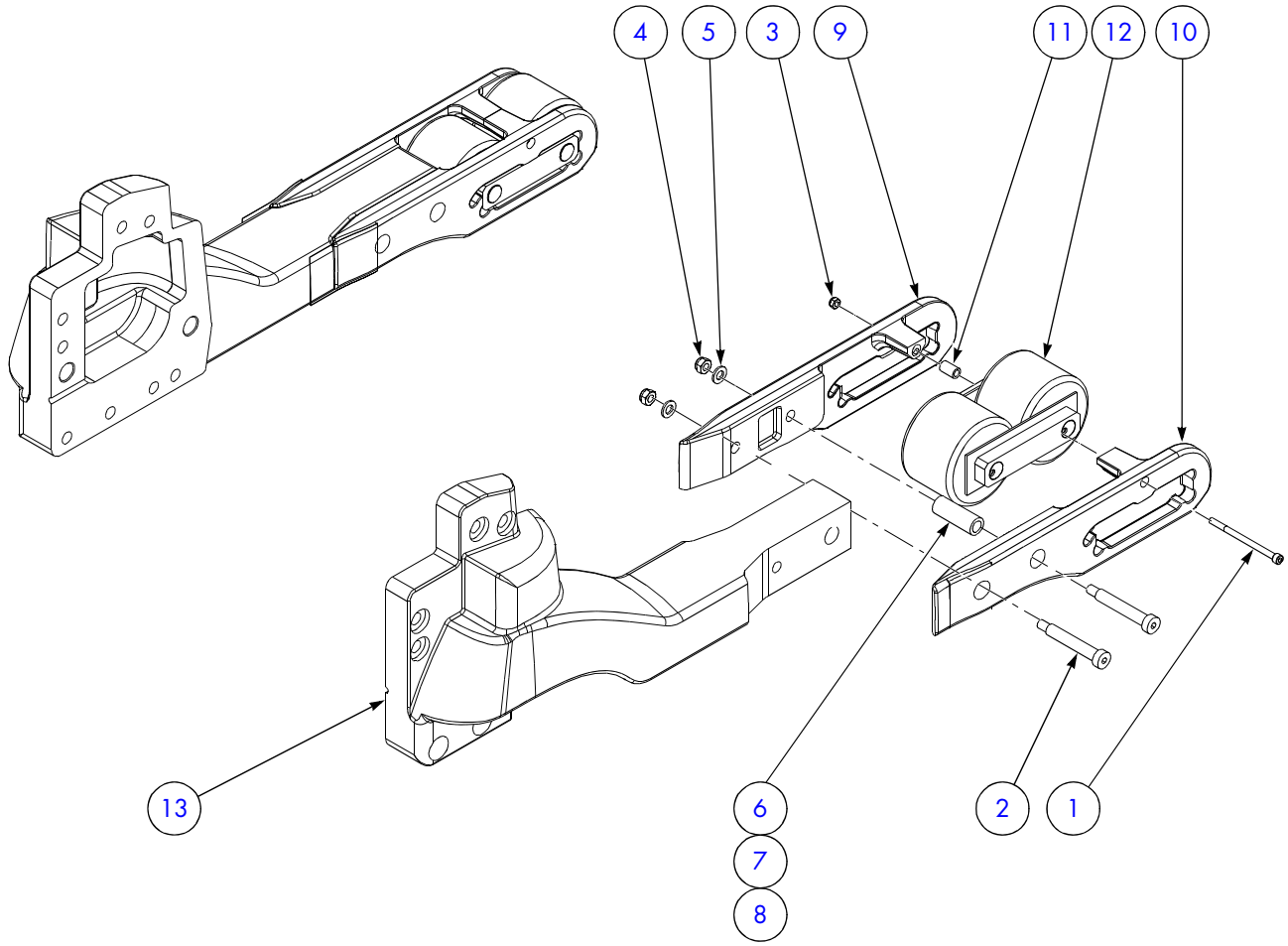
List 7-49: Baseleg Installation, DR32TT, 5 x 3.62 in., Closed Toe, Models 7420 and 7440

FIGURE 7-49 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	16	5-001-042	Screw	
2	16	5-018-010	Washer, Flat	
3	1	1038217	Baseleg, Left-Hand (42 in. Baseleg Opening)	
4	1	1038219	Baseleg, Left-Hand (45 in. Baseleg Opening)	
5	1	1038218	Baseleg, Right-Hand (42 in. Baseleg Opening)	
6	1	1038220	Baseleg, Right-Hand (45 in. Baseleg Opening)	
7	4	1045951	Pin, Dowel	
8	1	1048132	Brace, Machined, Main Frame	
9	AR	1076165	Spacer	

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Wheel Plate Installation, 5 x 3.62 in., Open Toe

Figure 7-50: Wheel Plate Installation, 5 x 3.62 in., Open Toe



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List 7-50: Wheel Plate Installation, 5 x 3.62 in., Open Toe

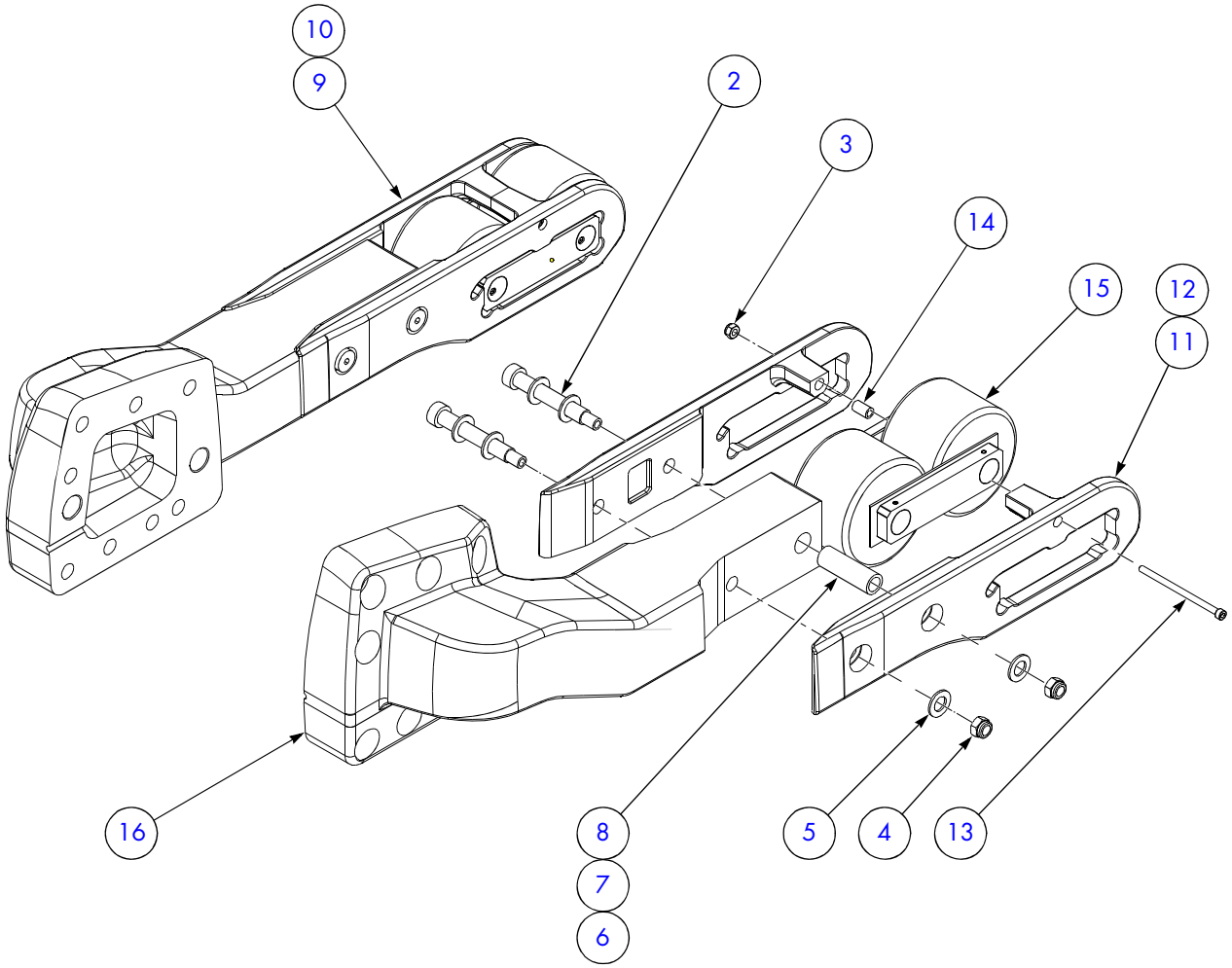
FIGURE 7-50 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	1040923/005	Screw	
2	4	5-005-017	Screw, Shoulder	
3	4	5-016-005	Nut, Nylon Locking	
4	4	5-016-017	Nut, Lock	
5	4	5-018-008	Washer, Flat	
6	2	1030800/001	Sleeve, Concentric (Steel)	
7	AR	1030800/002	Sleeve, Eccentric (0.063 in. Green)	
8	AR	1030800/003	Sleeve, Eccentric (0.094 in. Yellow)	
9	2	1053387	Wheel Plate, Machined, Left-Hand	A
	2	1053389	Wheel Plate, Machined, Left-Hand	B
10	2	1053388	Wheel Plate, Machined, Right-Hand	A
	2	1053390	Wheel Plate, Machined, Right-Hand	B
11	2	1043118	Sleeve, Shear, Wheel Plate	
12	2	Ref.	Load Wheel Assembly (See Figure 7-56.)	
13	1	Ref.	Baseleg Installation (See Figure 7-31 and Figure 7-37)	

A= Reach and Tilt Only
B= Reach with Tilt and Sideshift

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Wheel Plate Installation, 6 x 4 in., Open Toe, Models 7420 and 7440

Figure 7-51: Wheel Plate Installation, 6 x 4 in., Open Toe, Models 7420 and 7440



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List 7-51: Wheel Plate Installation, 6 x 4 in., Open Toe, Models 7420 and 7440

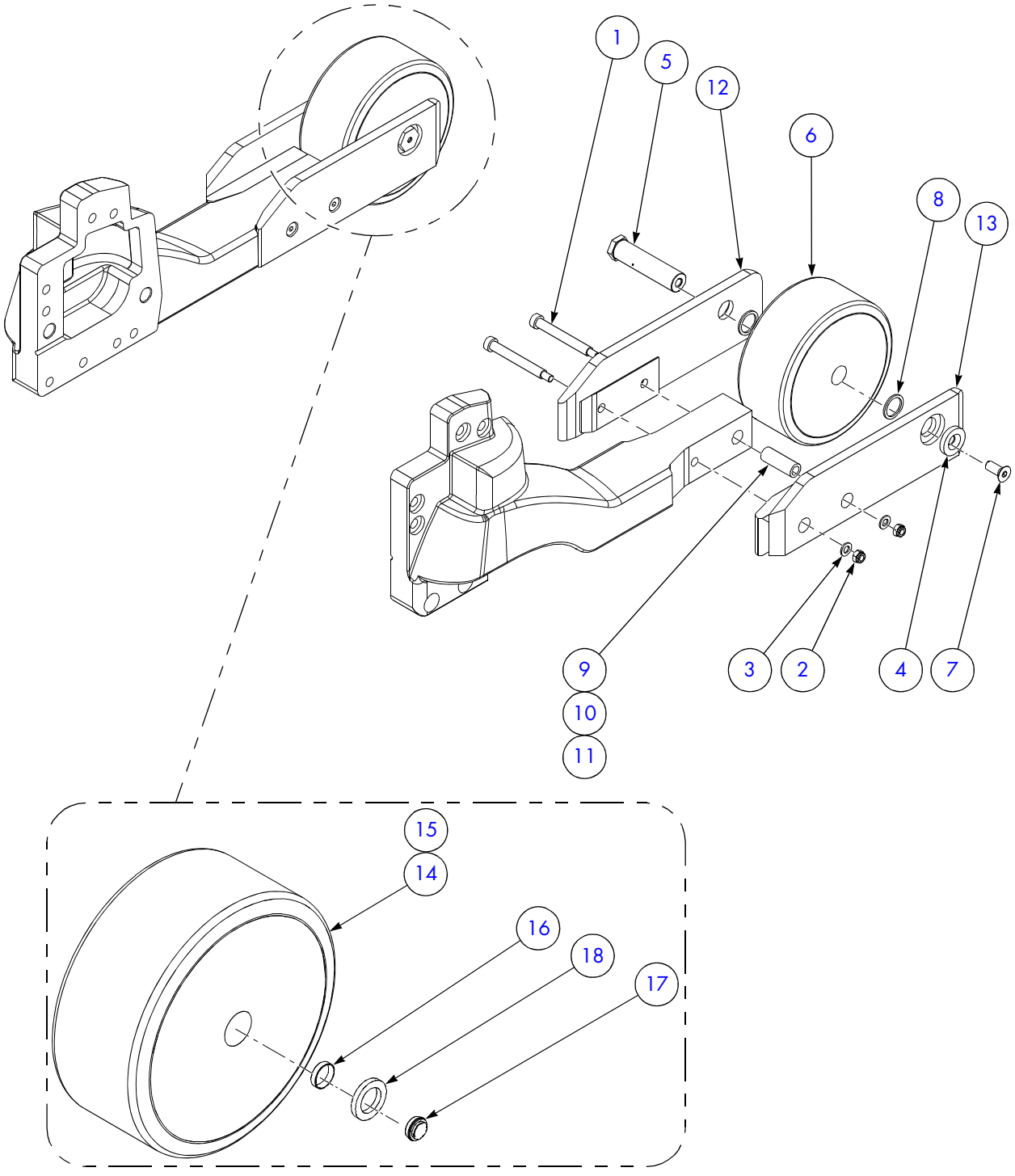
FIGURE 7-51 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	4	5-005-018	Screw, Shoulder	
3	4	5-016-005	Nut, Nylon Locking	
4	4	5-016-018	Nut, Lock	
5	12	5-018-010	Washer, Flat	
6	2	1051222/001	Sleeve, Concentric (Steel)	
7	2	1051222/002	Sleeve, Eccentric (0.063 in. Green)	
8	AR	1051222/003	Sleeve, Eccentric (0.094 in. Yellow)	
9	2	1023802	Wheel Plate, Machined, Left-Hand	A
10	2	1023804	Wheel Plate, Machined, Left-Hand	B
11	2	1023803	Wheel Plate, Machined, Right-Hand	A
12	2	1023805	Wheel Plate, Machined, Right-Hand	B
13	2	1040923/008	Screw	
14	2	1043118	Sleeve, Shear, Wheel Plate	
15	2	Ref.	Load Wheel Assembly (See Figure 7-56.)	
16	1	Ref.	Baseleg Installation (See Figure 7-47.)	

A= Reach and Tilt Only
B= Reach with Tilt and Sideshift

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Wheel Plate Installation, R45TT, 10.5 x 4.5 in., Open Toe, Model 7400

Figure 7-52: Wheel Plate Installation, R45TT, 10.5 x 4.5 in., Open Toe, Model 7400



1053816_A, 626-101-633.CGM

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List 7-52: Wheel Plate Installation, R45TT, 10.5 x 4.5 in., Open Toe, Model 7400

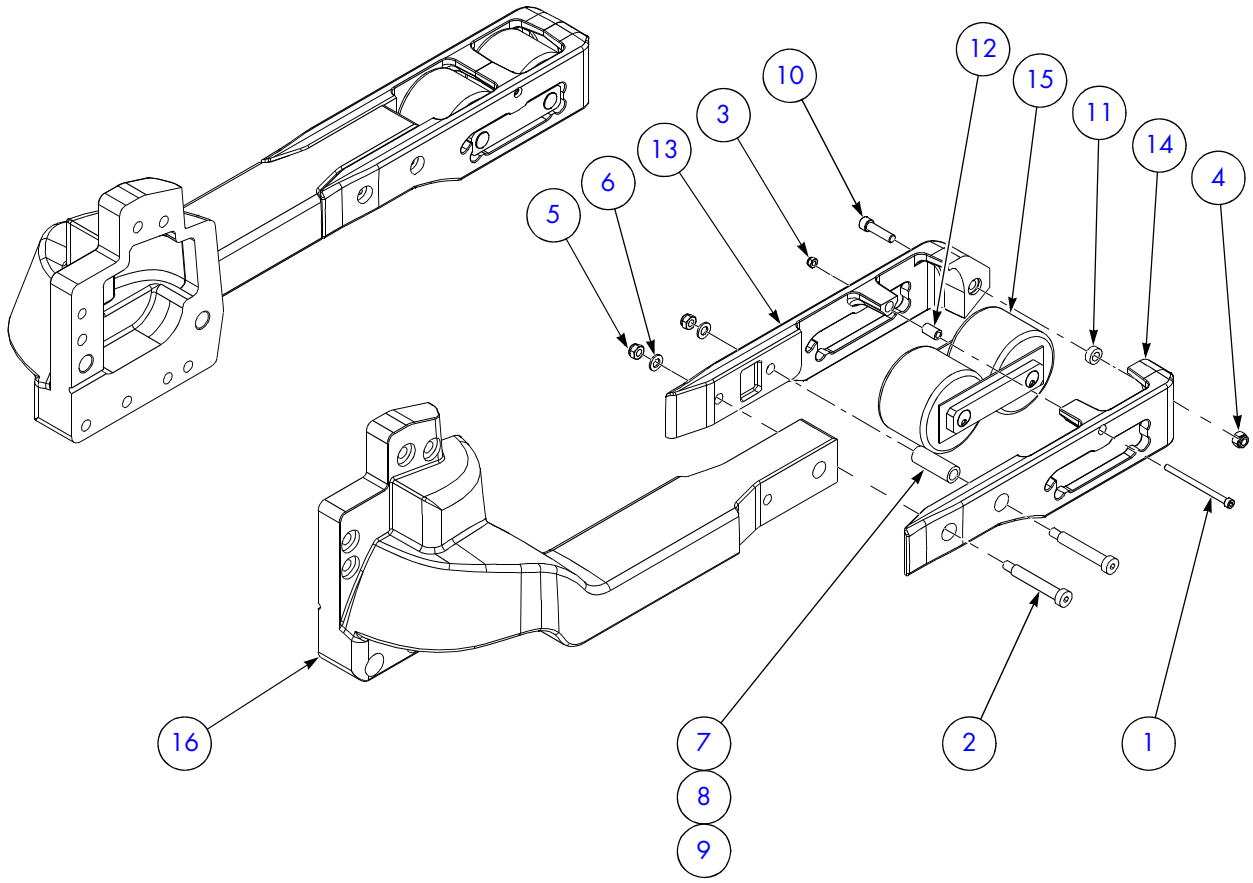
FIGURE 7-52 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	5-005-019	Screw, Shoulder	
2	4	5-016-017	Nut, Lock	
3	4	5-018-008	Washer, Flat	
4	2	623-010-348	Spacer	
5	2	625-000-154/002	Axle, Load Wheel	
6	2	Ref.	Load Wheel Assembly (includes: items 14 thru 18)	
7	2	715-045	Screw	
8	4	861-027-000	Spacer, Ring	
9	2	1030800/001	Sleeve, Concentric (Steel)	
10	AR	1030800/002	Sleeve, Eccentric (0.063 in. Green)	
11	AR	1030800/003	Sleeve, Eccentric (0.090 in. Yellow)	
12	1	1053814/001	Wheel Plate, Machined, Inside, Left-Hand	A
	1	1053814/002	Wheel Plate, Machined, Inside, Left-Hand	B
	1	1053814/003	Wheel Plate, Machined, Outside, Left-Hand	A
	1	1053814/004	Wheel Plate, Machined, Outside, Left-Hand	B
13	1	1053815/001	Wheel Plate, Machined, Inside, Right-Hand	A
	1	1053815/002	Wheel Plate, Machined, Inside, Right-Hand	B
	1	1053815/003	Wheel Plate, Machined, Outside, Right-Hand	A
	1	1053815/004	Wheel Plate, Machined, Outside, Right-Hand	B
14	1	632-096/001	Tire, Load Wheel, Poly, 10.5 x 4.5 in. (Red 85 Trostel)	
	1	632-096/002	Tire, Load Wheel, Poly, 10.5 x 4.5 in. (Neutral Vulkollan)	
	1	632-096/003	Tire, Load Wheel, Poly, 10.5 x 4.5 in. (Black 95)	
	1	632-096/007	Tire, Load Wheel, Poly, 10.5 x 4.5 in. (Tan 95)	
	1	632-096/101	Tire, Load Wheel, Poly, 10.5 x 4.5 in. (Red 85 Thombert)	
	1	632-096/107	Tire, Load Wheel, Poly, 10.5 x 4.5 in. (Rootbeer 93)	
15	1	623-001-343	Hub, Machined	
16	2	447-561	Bearing, Cup	
17	2	447-085	Bearing, Cone	
18	2	530-615	Seal, Oil	

A= Reach and Tilt (17.44 in.)
B= Reach with Tilt and Sideshift Only (18.44 in.)

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Wheel Plate Installation, Closed Toe, Cast (All Except 6 x 4 in.)

Figure 7-53: Wheel Plate Installation, Closed Toe, Cast (All Except 6 x 4 in.)



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List 7-53: Wheel Plate Installation, Closed Toe, Cast (All Except 6 x 4 in.) (Sheet 1 of 2)

FIGURE 7-53 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	1040923/004	Screw	E
	2	1040923/005	Screw	C
	2	1040923/007	Screw	D, F
2	4	5-005-017	Screw, Shoulder	C, E
	4	1064424	Bolt Alteration	D, F
3	4	5-016-005	Nut, Nylon Locking	
4	2	1043403/005	Nut, Lock, Heavy, M12	
5	4	5-016-017	Nut, Lock	
6	4	5-018-008	Washer, Flat	
7	2	1030800/001	Sleeve, Concentric (Steel)	C, E
	2	1030800/004	Sleeve, Concentric (Steel)	D, F
8	AR	1030800/002	Sleeve, Eccentric (0.063 in. Green)	C, E
	AR	1030800/005	Sleeve, Eccentric (0.063 in. Green)	D, F
9	AR	1030800/003	Sleeve, Eccentric (0.094 in. Yellow)	C, E
	AR	1030800/006	Sleeve, Eccentric (0.094 in. Yellow)	D, F
10	2	1040923/002	Screw	D, E, F
	2	1040923/006	Screw	C
11	2	1042669	Disc, Shear, Wheel Plate	
12	2	1043118	Sleeve, Shear, Wheel Plate	C, D
	2	1051173	Sleeve, Shear, Wheel Plate	E, F
13	2	1053383	Wheel Plate, Machined, Left-Hand	A, C
	2	1053385	Wheel Plate, Machined, Left-Hand	B, C
	2	1049869	Wheel Plate, Machined, Left-Hand	A, D
	2	1049976	Wheel Plate, Machined, Left-Hand	B, D
	2	1049972	Wheel Plate, Machined, Left-Hand	A, E
	2	1091979	Wheel Plate, Machined, Left-Hand	A, E
	2	1049978	Wheel Plate, Machined, Left-Hand	B, E
	2	1098924	Wheel Plate, Machined, Left-Hand	B, E
	2	1049974	Wheel Plate, Machined, Left-Hand	A, F
	2	1049980	Wheel Plate, Machined, Left-Hand	B, F
14	2	1053384	Wheel Plate, Machined, Right-Hand	A, C
	2	1053386	Wheel Plate, Machined, Right-Hand	B, C
	2	1049971	Wheel Plate, Machined, Right-Hand	A, D
	2	1049977	Wheel Plate, Machined, Right-Hand	B, D
	2	1049973	Wheel Plate, Machined, Right-Hand	A, E
	2	1091980	Wheel Plate, Machined, Right-Hand	A, E
	2	1049979	Wheel Plate, Machined, Right-Hand	B, E
	2	1098925	Wheel Plate, Machined, Right-Hand	B, E
	2	1049975	Wheel Plate, Machined, Right-Hand	A, F
	2	1049981	Wheel Plate, Machined, Right-Hand	B, F

A= Deep Reach (all) and Reach with Tilt Only
B= Reach with Tilt and Sideshift
C= 5 x 3.62 in.
D= 5 x 2.88 in.
E= 4 x 3.62 in.
F= 4 x 2.88 in.

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Wheel Plate Installation, Closed Toe, Cast (All Except 6 x 4 in.)

List 7-53: Wheel Plate Installation, Closed Toe, Cast (All Except 6 x 4 in.) (Sheet 2 of 2)

FIGURE 7-53 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
15	2	Ref.	Load Wheel Assembly (See Figure 7-56.)	
16	1	Ref.	Baseleg Installation (See Figure 7-32, Figure 7-37, Figure 7-38, Figure 7-43, and Figure 7-49.)	C
	1	Ref.	Baseleg Installation (See Figure 7-33, Figure 7-34, Figure 7-39, Figure 7-40, and Figure 7-44.)	D
	1	Ref.	Baseleg Installation (See Figure 7-35, Figure 7-41, and Figure 7-45.)	E
	1	Ref.	Baseleg Installation (See Figure 7-36, Figure 7-42, and Figure 7-46.)	F

A= Deep Reach (all) and Reach with Tilt Only
B= Reach with Tilt and Sideshift
C= 5 x 3.62 in.
D= 5 x 2.88 in.
E= 4 x 3.62 in.
F= 4 x 2.88 in.

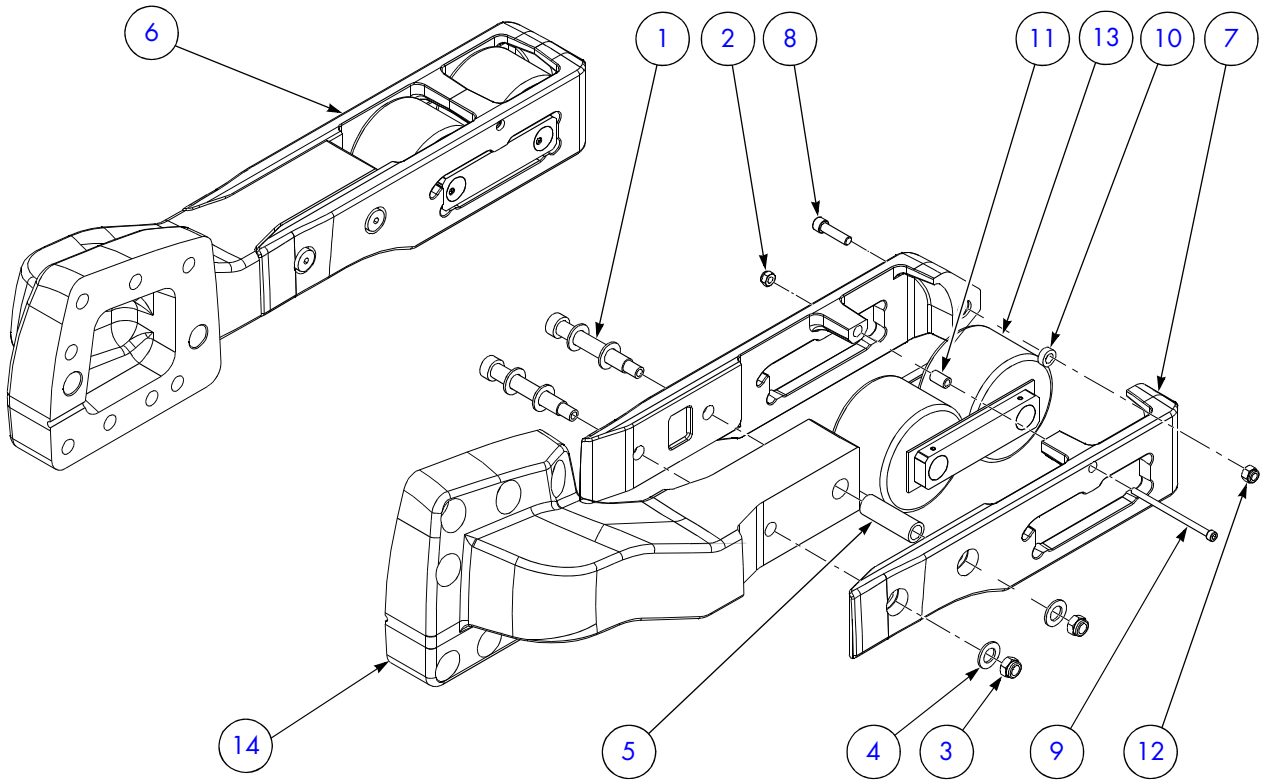
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Wheel Plate Installation, 6 x 4 in., Closed Toe, Cast

Figure 7-54: Wheel Plate Installation, 6 x 4 in., Closed Toe, Cast



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List 7-54: Wheel Plate Installation, 6 x 4 in., Closed Toe, Cast

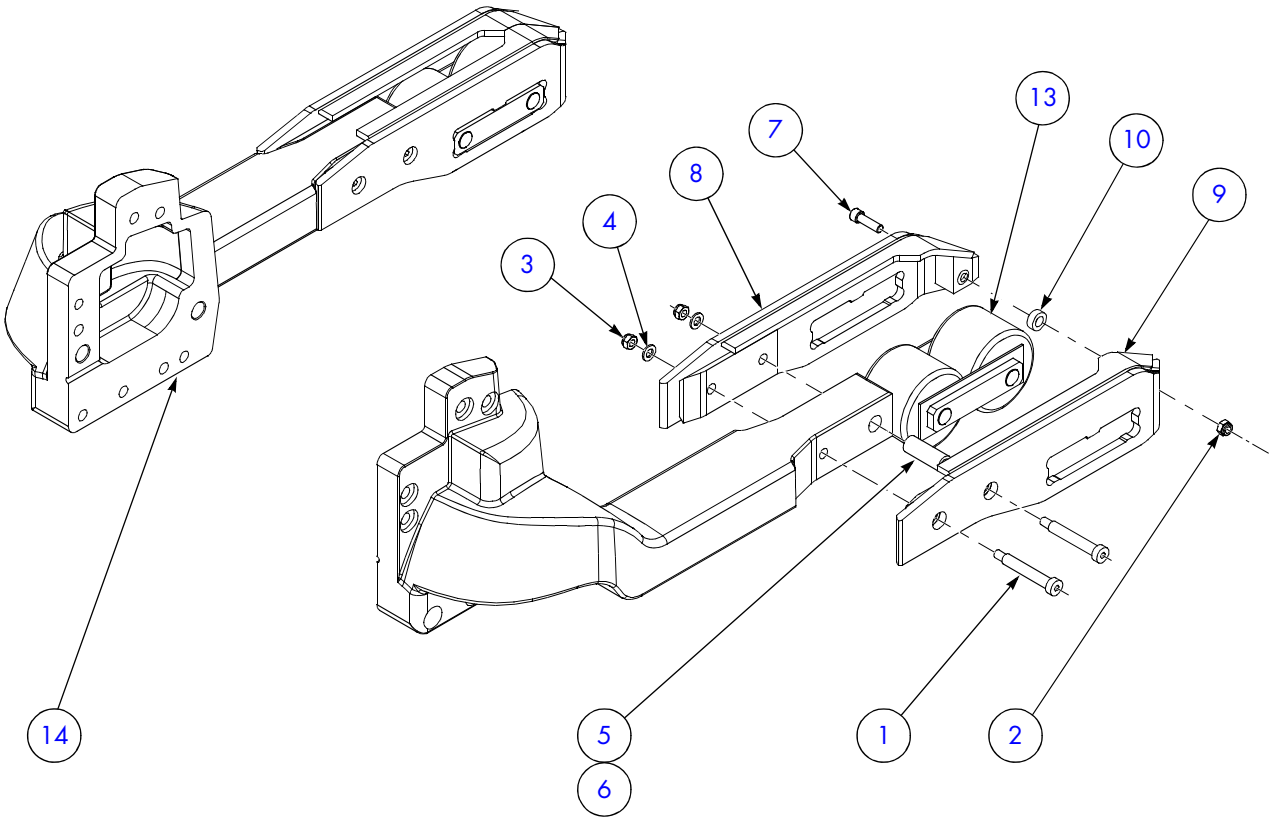
FIGURE 7-54 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	5-005-018	Screw	
2	2	5-016-005	Nut, Nylon Locking	
3	4	5-016-018	Nut, Lock	
4	12	5-018-010	Washer, Flat	
5	2	1051222/001	Sleeve, Concentric (Steel)	
	2	1051222/002	Sleeve, Eccentric (0.063 in. Green)	
	2	1051222/003	Sleeve, Eccentric (0.094 in. Yellow)	
6	2	1028531	Wheel Plate, Machined, Left-Hand	A
	2	1028533	Wheel Plate, Machined, Left-Hand	B
7	2	1028532	Wheel Plate, Machined, Right-Hand	A
	2	1028534	Wheel Plate, Machined, Right-Hand	B
8	2	1040923/006	Screw	
9	2	1040923/008	Screw	
10	2	1042669	Disc, Shear, Wheel Plate	
11	2	1043118	Sleeve, Shear, Wheel Plate	
12	2	1043403/005	Nut, Lock, Heavy	
13	2	Ref.	Load Wheel Assembly (See Figure 7-56.)	
14	1	Ref.	Baseleg Installation (See Figure 7-48.)	

A= Deep Reach and Reach and Tilt Only
B= Reach with Tilt and Sideshift Only

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Wheel Plate Installation, 5 x 3.62 in. and 5 x 2.88 in., OWCTWB

Figure 7-55: Wheel Plate Installation, 5 x 3.62 in. and 5 x 2.88 in., OWCTWB



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List 7-55: Wheel Plate Installation, 5 x 3.62 in. and 5 x 2.88 in., OWCTWB

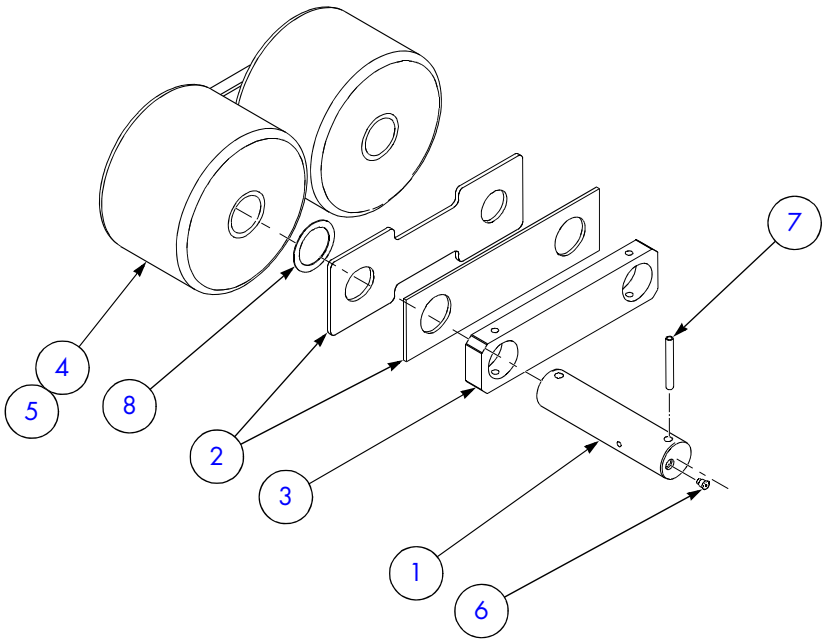
FIGURE 7-55 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	5-005-017	Screw, Shoulder	
2	2	5-016-007	Nut, Nylon Locking	
3	4	5-016-017	Nut, Lock	
4	4	5-018-008	Washer, Flat	
5	2	1030800/001	Sleeve, Concentric (Steel)	C, E
	2	1030800/004	Sleeve, Concentric (Steel)	D, F
6	AR	1030800/002	Sleeve, Eccentric (0.063 in. Green)	C, E
	AR	1030800/005	Sleeve, Eccentric (0.063 in. Green)	D, F
	AR	1030800/003	Sleeve, Eccentric (0.094 in. Yellow)	C, E
	AR	1030800/006	Sleeve, Eccentric (0.094 in. Yellow)	D, F
7	2	1040923/002	Screw	
8	2	1041608/001	Wheel Plate, Machined, Right-Hand	A, C
	2	1041608/002	Wheel Plate, Machined, Right-Hand	B, C
	2	1063020/001	Wheel Plate, Machined, Right-Hand	A, D
	2	1063020/002	Wheel Plate, Machined, Right-Hand	B, D
9	2	1041609/001	Wheel Plate, Machined, Left-Hand	A, C
	2	1041609/002	Wheel Plate, Machined, Left-Hand	B, C
	2	1063021/001	Wheel Plate, Machined, Left-Hand	A, D
	2	1063021/002	Wheel Plate, Machined, Left-Hand	B, D
10	2	1042669	Disc, Shear, Wheel Plate	D
13	2	Ref.	Load Wheel Assembly (See Figure 7-56.)	
14	1	Ref.	Baseleg Installation (See Figure 7-32, Figure 7-38, and Figure 7-43.)	C
	1	Ref.	Baseleg Installation (See Figure 7-33, Figure 7-34, Figure 7-39, Figure 7-40, and Figure 7-44.)	D

A= Deep Reach and Reach and Tilt Only
B= Reach with Tilt and Sideshift Only
C= 5 x 3.62 in.
D= 5 x 2.88 in.

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Load Wheel Assembly

Figure 7-56: Load Wheel Assembly



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List 7-56: Load Wheel Assembly

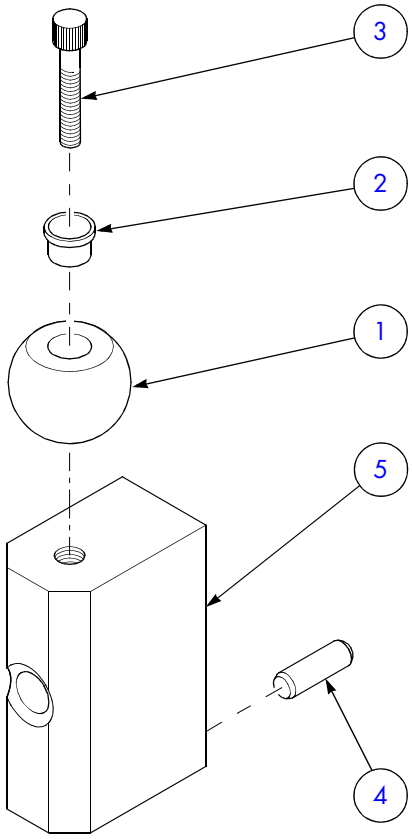
FIGURE 7-56 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	1014758/002	Axle, Load Wheel	A
	4	1014759/002	Axle, Load Wheel	B, E
	4	1014758/001	Axle, Load Wheel	C
	4	1014759/001	Axle, Load Wheel	D, F
	4	1014767	Axle, Load Wheel	G
2	4	1031101	Spacer	A, B, C, D
	4	1022987	Spacer	E, F
	4	623-010-281	Spacer	G
3	4	623-010-109	Plate, Carrier	A, C
	4	828-008-204	Plate, Carrier	B, D
	4	828-008-202	Plate, Carrier	E, F
	4	623-010-284	Plate, Carrier	G
4	4	632-052/XXX	Load Wheel	A, B
	4	632-043/XXX	Load Wheel	C, D
	4	632-032/XXX	Load Wheel	E
	4	632-031/XXX	Load Wheel	F
	4	632-057/XXX	Load Wheel	G
5	8	441-130	Bearing, Load Wheel	A, B, R
	8	441-127	Bearing, Load Wheel	C, D, E, F, R
	8	442-150	Bearing, Load Wheel	G, R
6	4	841-111	Fitting, Grease	
7	8	810-761	Pin, Spiral	A, B, C, D, E, F
	8	810-763	Pin, Spiral	G
8	AR	771-033	Shim (0.04 in.)	A, B, C, D, E, F
	AR	771-040	Shim (0.031 in.)	G

A= 5 x 3.62 in. Open Toe
B= 5 x 3.62 in. Straddle (Closed Toe)
C= 5 x 2.88 in. Open Toe
D= 5 x 2.88 in. Straddle (Closed Toe)
E= 4 x 3.62 in. Straddle (Closed Toe)
F= 4 x 2.88 in. Straddle (Closed Toe)
G= 6 x 4 in.
Note: Tire Suffix = Color/Compound
/101 Red-Orange 85A
/002 Neutral 93A
/003 Black 95A
/007 Tan 95A
/008 Gold 85A
/107 Brown 93A
R= Recommended Spare

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Stop Assembly, R45TT and DR32TT

Figure 7-57: Stop Assembly, R45TT and DR32TT



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List 7-57: Stop Assembly, R45TT and DR32TT

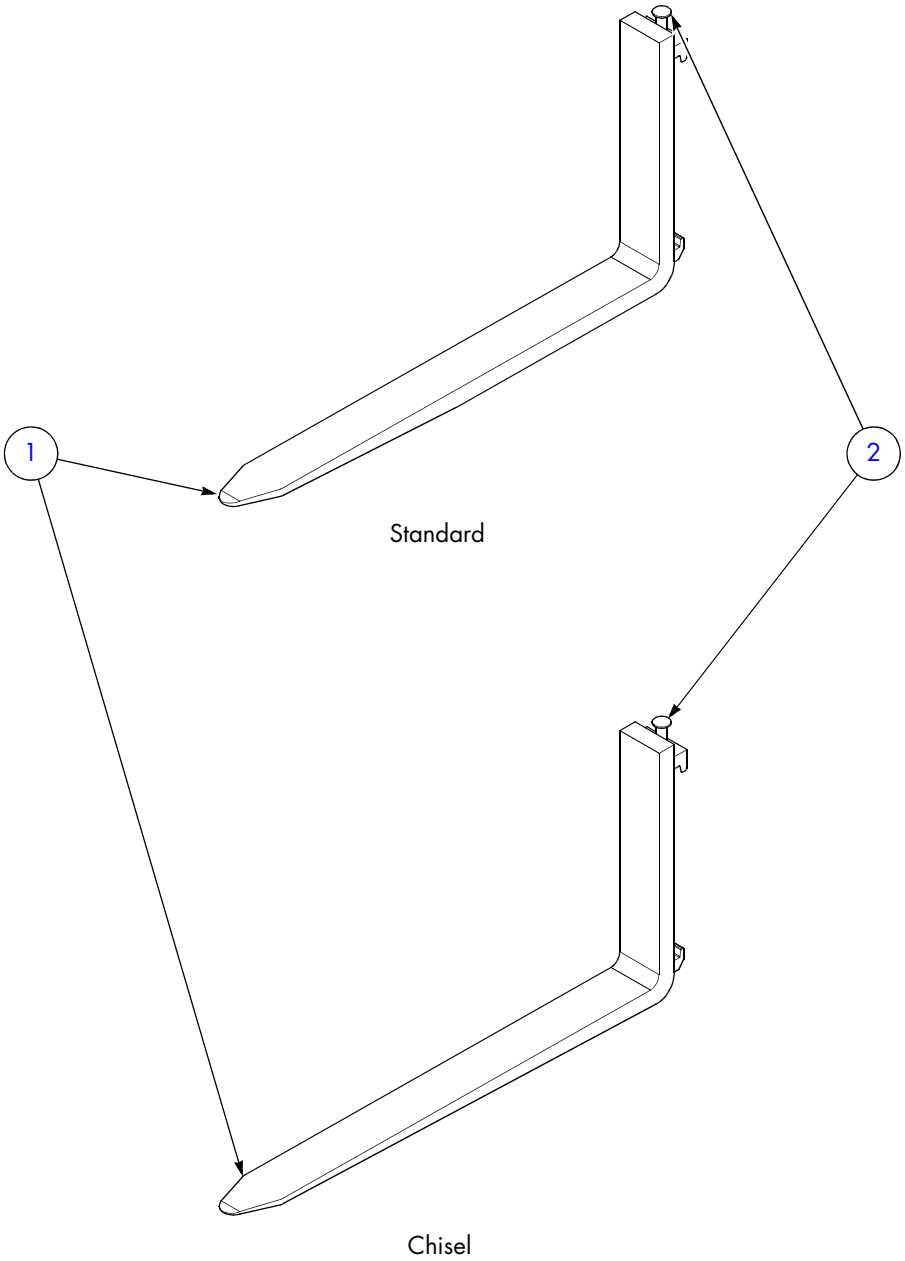
FIGURE 7-57 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
		828-000-985/001	Stop Assembly	A
		828-000-985/004	Stop Assembly	B
1	1	413-045	Bumper, Carriage Stop	
2	1	828-000-987	Sleeve	
3	1	714-065	Screw	
4	1	812-407	Pin, Dowel	
5	1	828-000-984/001	Stop	A
	1	828-000-984/003	Stop	B

A= Model 7420 (R45TT and DR32TT, Inner Telescopic) and Model 7440 (R45TT and DR32TT, Main Frame)
B= Model 7440 (R45TT and DR32TT, Inner Telescopic)

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Forks

Figure 7-58: Forks



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List 7-58: Forks

FIGURE 7-58 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	828-001-571/XXX	Fork Assembly, Standard (4 x 1.50 in.)	B
	2	828-001-569/XXX	Fork Assembly, Standard (4 x 1.50 in.)	A
	2	828-001-572/XXX	Fork Assembly, Chisel (4 x 1.50 in.)	B
	2	828-001-570/XXX	Fork Assembly, Chisel (4 x 1.50 in.)	A
	2	1017871/XXX	Fork Assembly, Polished Chisel (4 x 1.75 in.)	A
	2	828-001-559/XXX	Fork Assembly, Standard (4 x 1.75 in.)	A
	2	828-001-560/XXX	Fork Assembly, Chisel (4 x 1.75 in.)	A
2	1	811-885	Pin, Fork	

A= R45TT
B= R35TT, DR32TT
Note: Suffix = Inches and Tenths (Example: /420 = 42 in. length)

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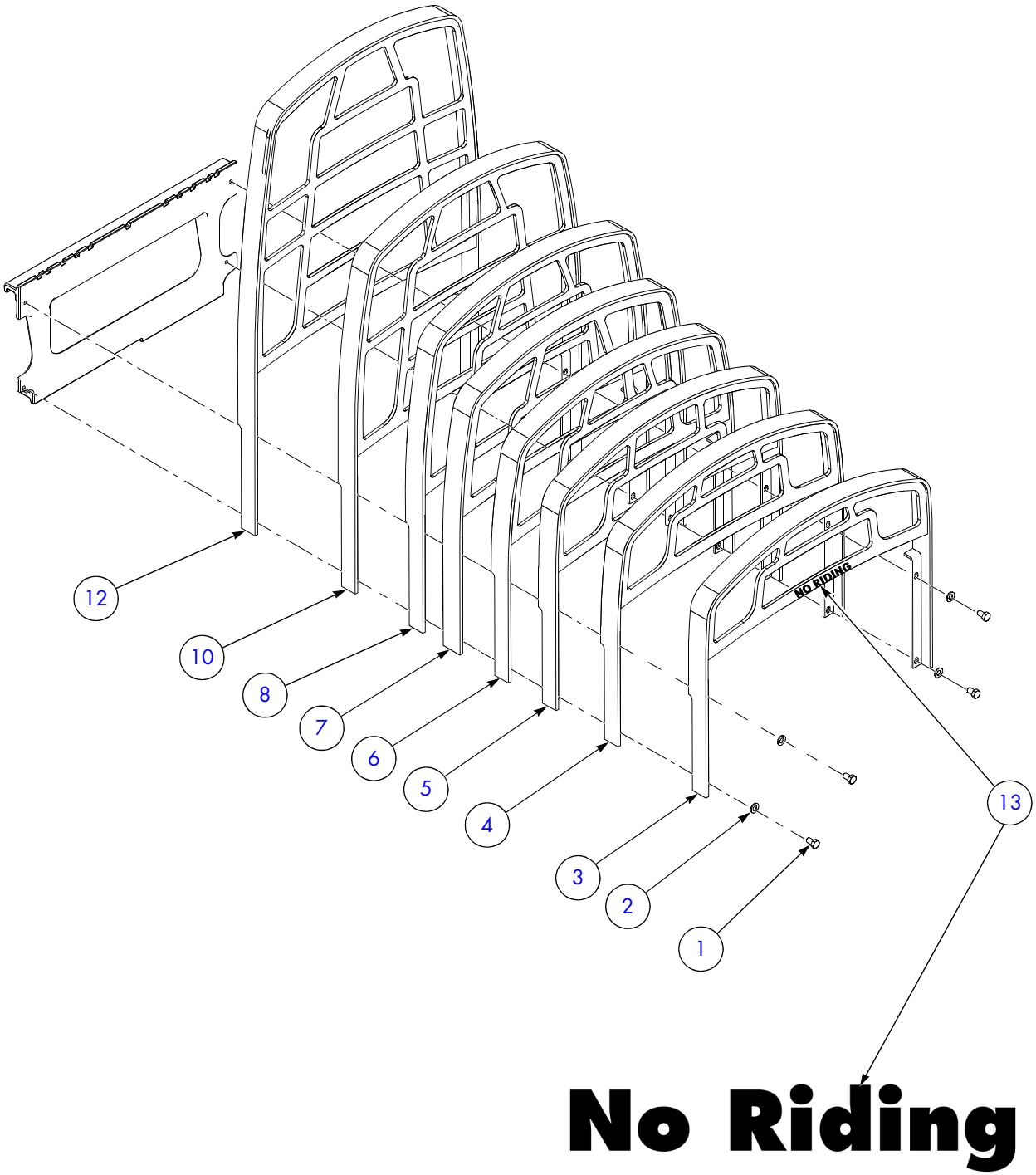
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Load Backrest Installation

Figure 8-1: Load Backrest Installation



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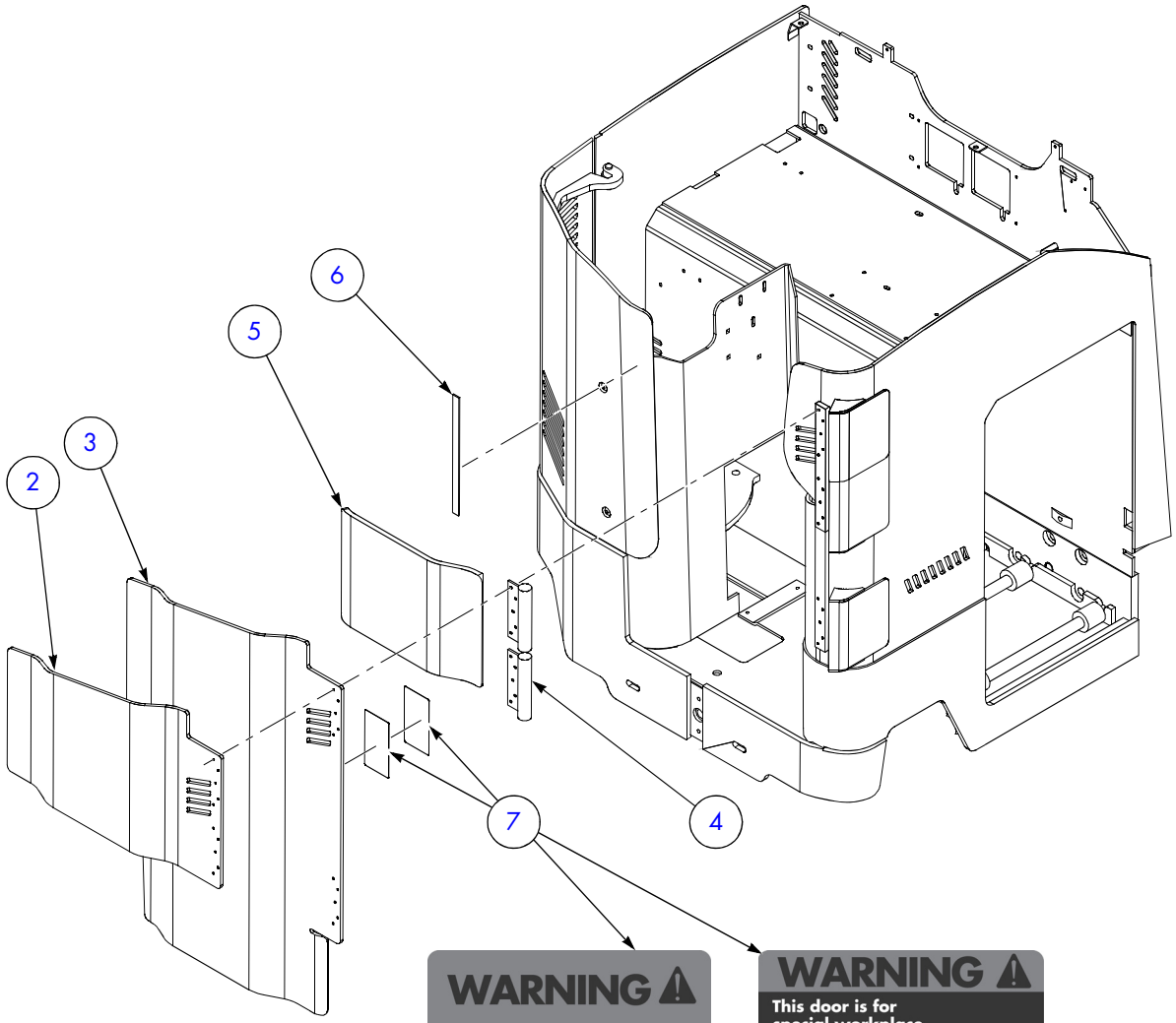
List 8-1: Load Backrest Installation

FIGURE 8-1 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	5-001-023	Screw	
2	4	5-018-008	Washer, Flat	
3	1	1045536	Load Backrest (32 in.)	
4	1	1040267	Load Backrest (33 in.)	
5	1	1050107	Load Backrest (34 in.)	
6	1	1017878	Load Backrest (36 in.)	
7	1	1017890	Load Backrest (38 in.)	
8	1	1017880	Load Backrest (42 in.)	
9	1	1063653	Load Backrest (44 in.) (Not Shown)	
10	1	1017887	Load Backrest (48 in.)	
11	1	1087116	Load Backrest (54 in.) (Not Shown)	
12	1	1051935	Load Backrest (58 in.)	
13	1	411-587/004	Decal, No Riding	

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Rear Door Installation, Fore-Aft

Figure 8-2: Rear Door Installation, Fore-Aft



WARNING

This door is for special workplace applications where surrounding material may intrude into operator's compartment. NOT for general use. If that application changes, BE SURE to determine immediately if the door should be REMOVED.

WARNING

This door is for special workplace applications where surrounding material may intrude into operator's compartment. NOT for general use. If that application changes, BE SURE to determine immediately if the door should be REMOVED.

ATTENTION

Cette porte est pour des applications de travail sur place ou le matériel environnant peut s'introduire dans le compartiment de l'opérateur. PAS pour usage général. Si cette application change, soyez sur de dèterminer immédiatement si la porte doit etre enlevée.

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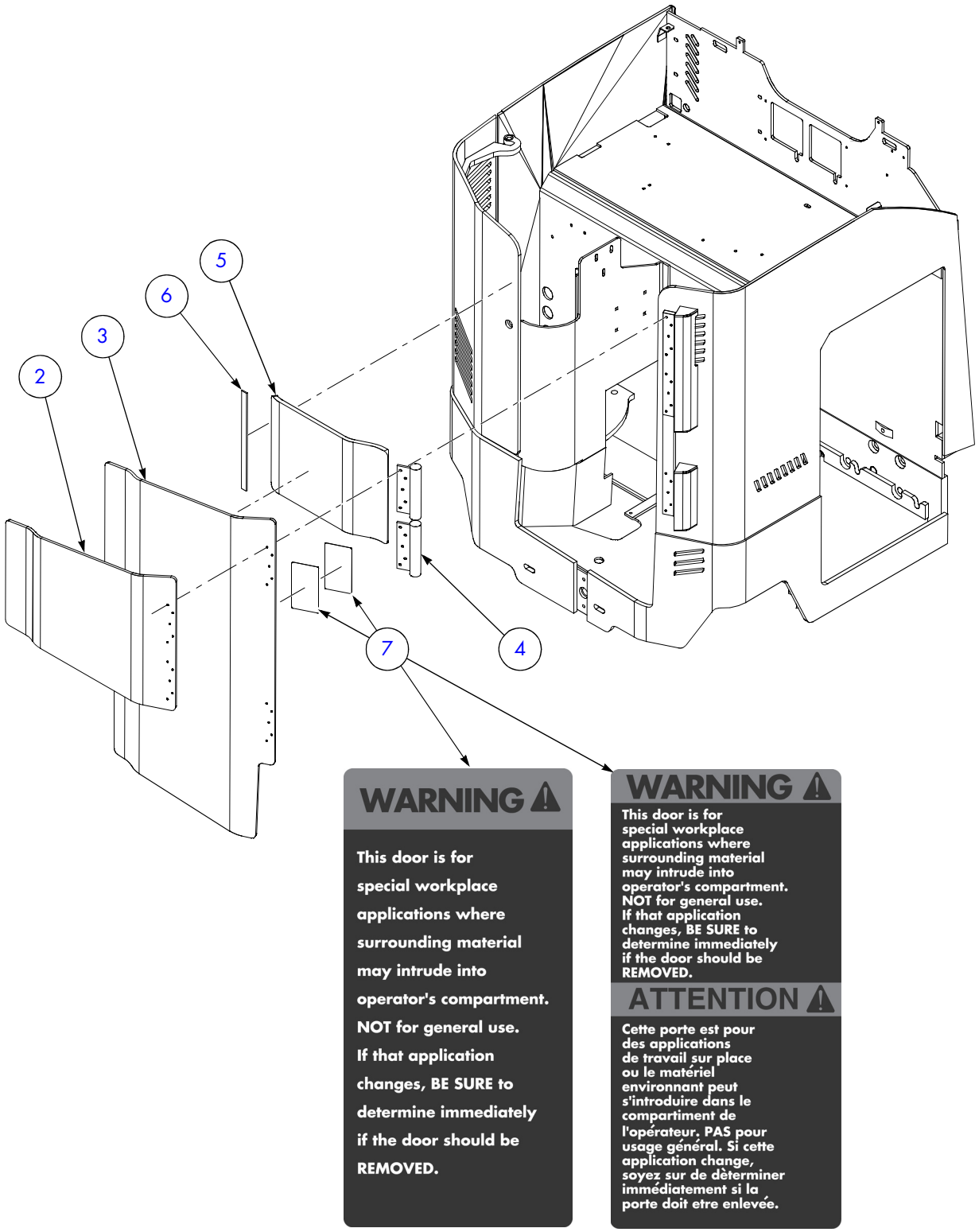
List 8-2: Rear Door Installation, Fore-Aft

FIGURE 8-2 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	1	1015701/001	Door, Half Height Without Rear Post	
	1	1015701/002	Door, Half Height With Rear Post	
3	1	1015702/001	Door, Full Height Without Rear Post	
	1	1015702/002	Door, Full Height With Rear Post	
4	2	900-137	Hinge, Spring	
5	1	828-004-287	Pad, Back	
6	1	828-003-590/003	Bumper, Back Guard (Half Door)	
	1	828-003-590/004	Bumper, Back Guard (Full Door)	
7	1	411-934	Decal, Warning	
	1	412-414	Decal, Warning, Bilingual	

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Rear Door Installation, Side Stance

Figure 8-3: Rear Door Installation, Side Stance



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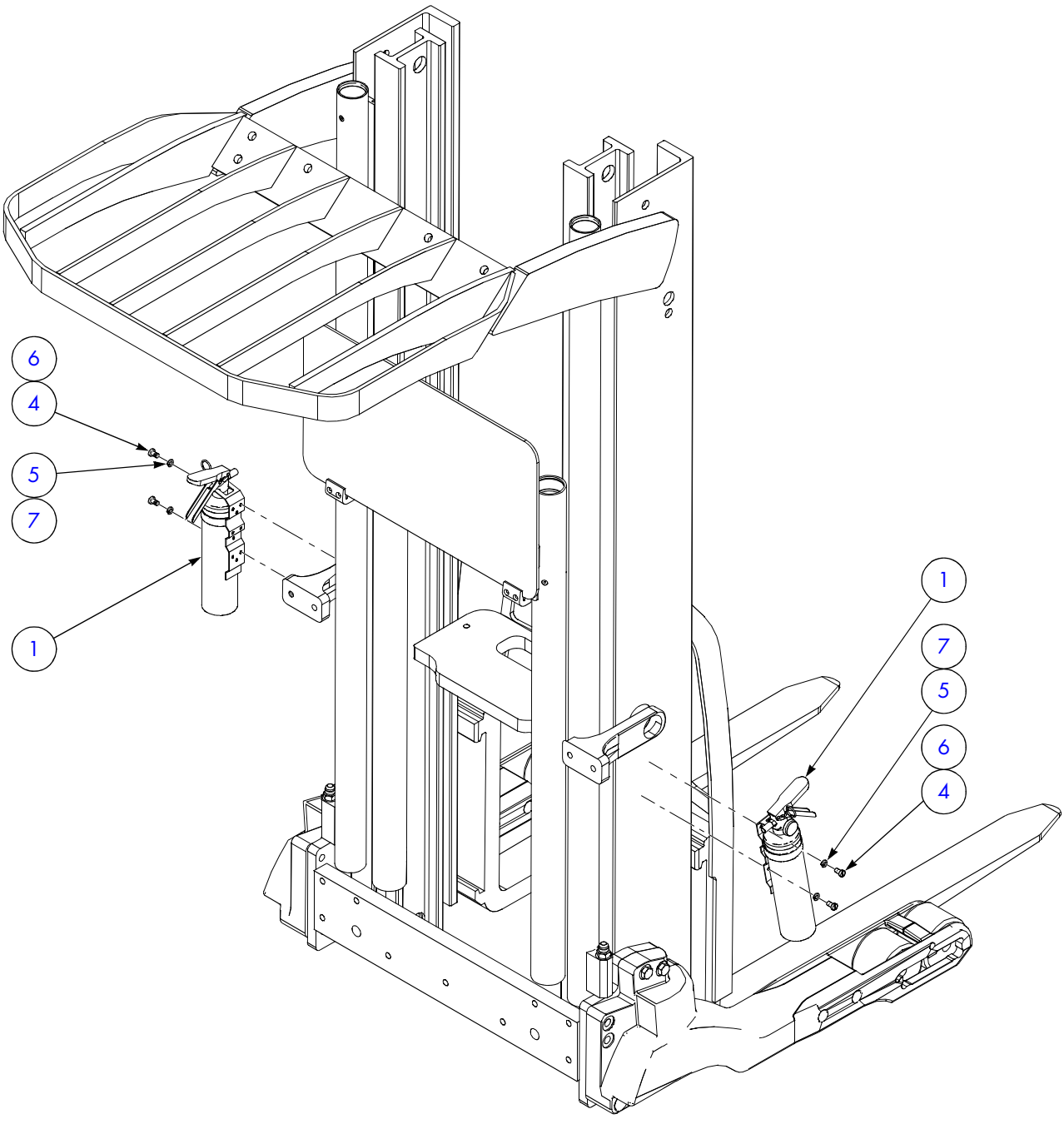
List 8-3: Rear Door Installation, Side Stance

FIGURE 8-3 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	1	1017573	Door, Half	
3	1	1017574	Door, Full	
4	2	900-137	Hinge, Spring	
5	1	828-004-287	Pad, Back	
6	1	828-003-590/003	Bumper, Back Guard (Half Door)	
	1	828-003-590/004	Bumper, Back Guard (Full Door)	
7	1	411-934	Decal, Warning	
	1	412-414	Decal, Warning, Bilingual	

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Fire Extinguisher Installation

Figure 8-4: Fire Extinguisher Installation



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List 8-4: Fire Extinguisher Installation

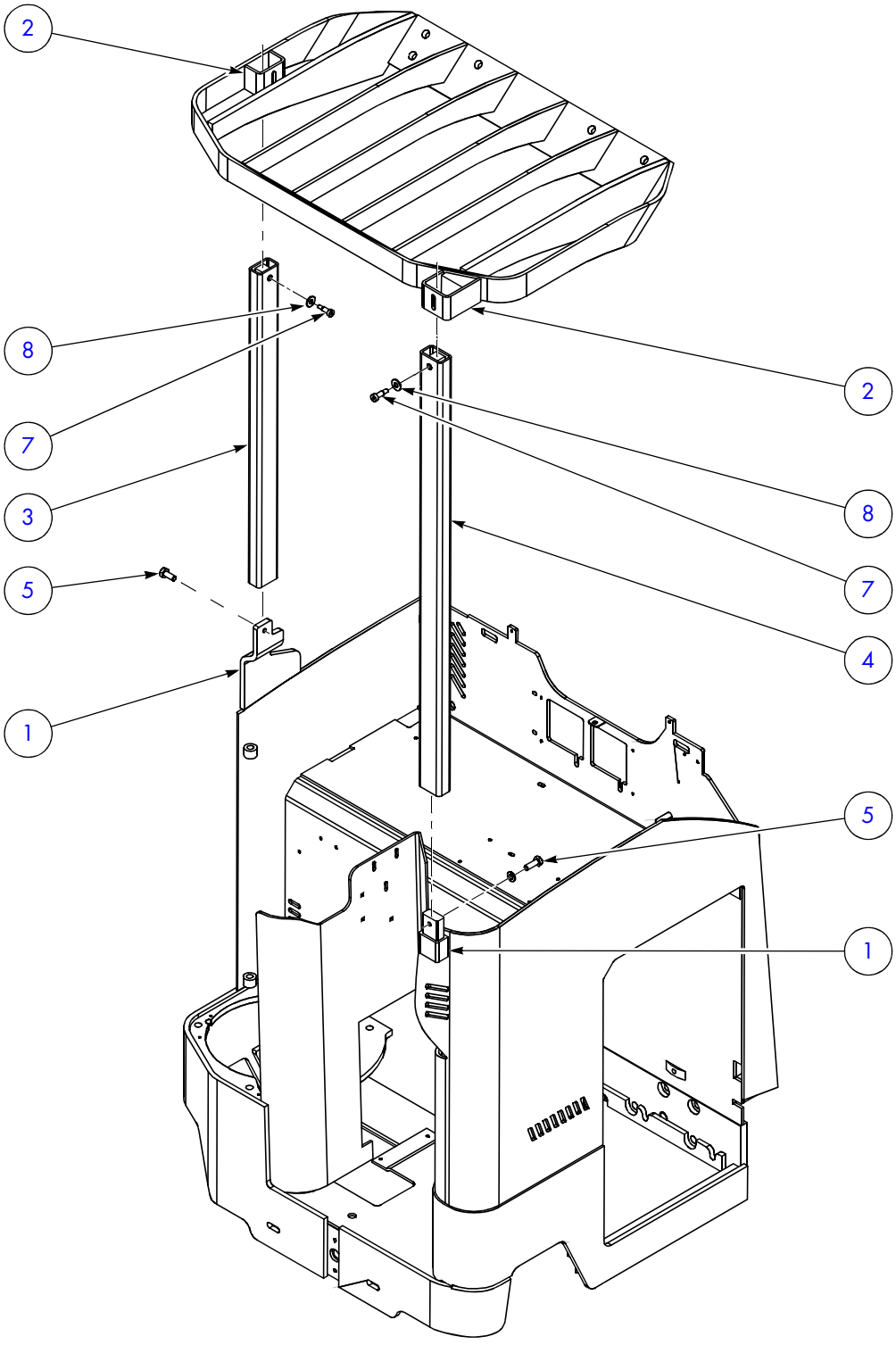
FIGURE 8-4 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	870-111	Extinguisher, Fire, 5.0 pound, CO_2	
	1	1014404	Extinguisher, Fire, 2.5 pound, Dry Chemical	
	1	870-117	Extinguisher, Fire, 5.0 pound, Dry Chemical	
4	4	710-007	Screw	A
5	4	772-116	Washer, Lock	A
6	4	701-117	Screw	
7	4	772-112	Washer, Lock	

A= For 870-111 Only

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Rear Post, Fore-Aft

Figure 8-5: Rear Post, Fore-Aft



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List 8-5: Rear Post, Fore-Aft

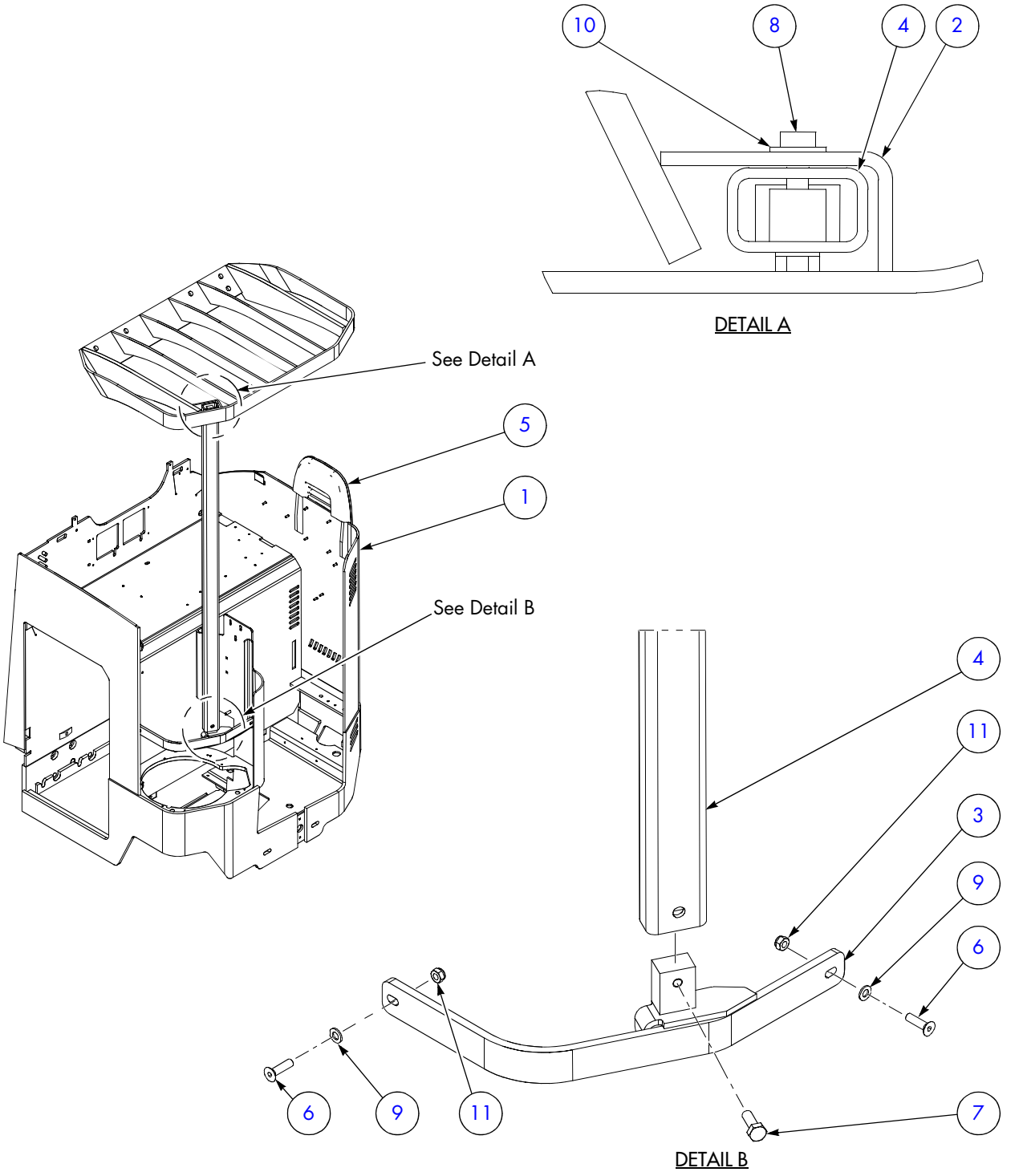
FIGURE 8-5 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Frame Alteration Weldment, Tractor (Contact Technical Support)	
2	1	Ref.	Guard Alteration Weldment, Overhead (Contact Technical Support)	
3	1	1030426/017	Post	A
4	1	1030426/018	Post	A
5	2	5-001-015	Screw	
7	2	5-001-010	Screw, Shoulder	
8	2	771-116	Washer, Flat	

A= Stock Length, Cut off Excess Tube and Redrill 0.5 in. Hole as Required

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Rear Post, Side Stance

Figure 8-6: Rear Post, Side Stance



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List 8-6: Rear Post, Side Stance

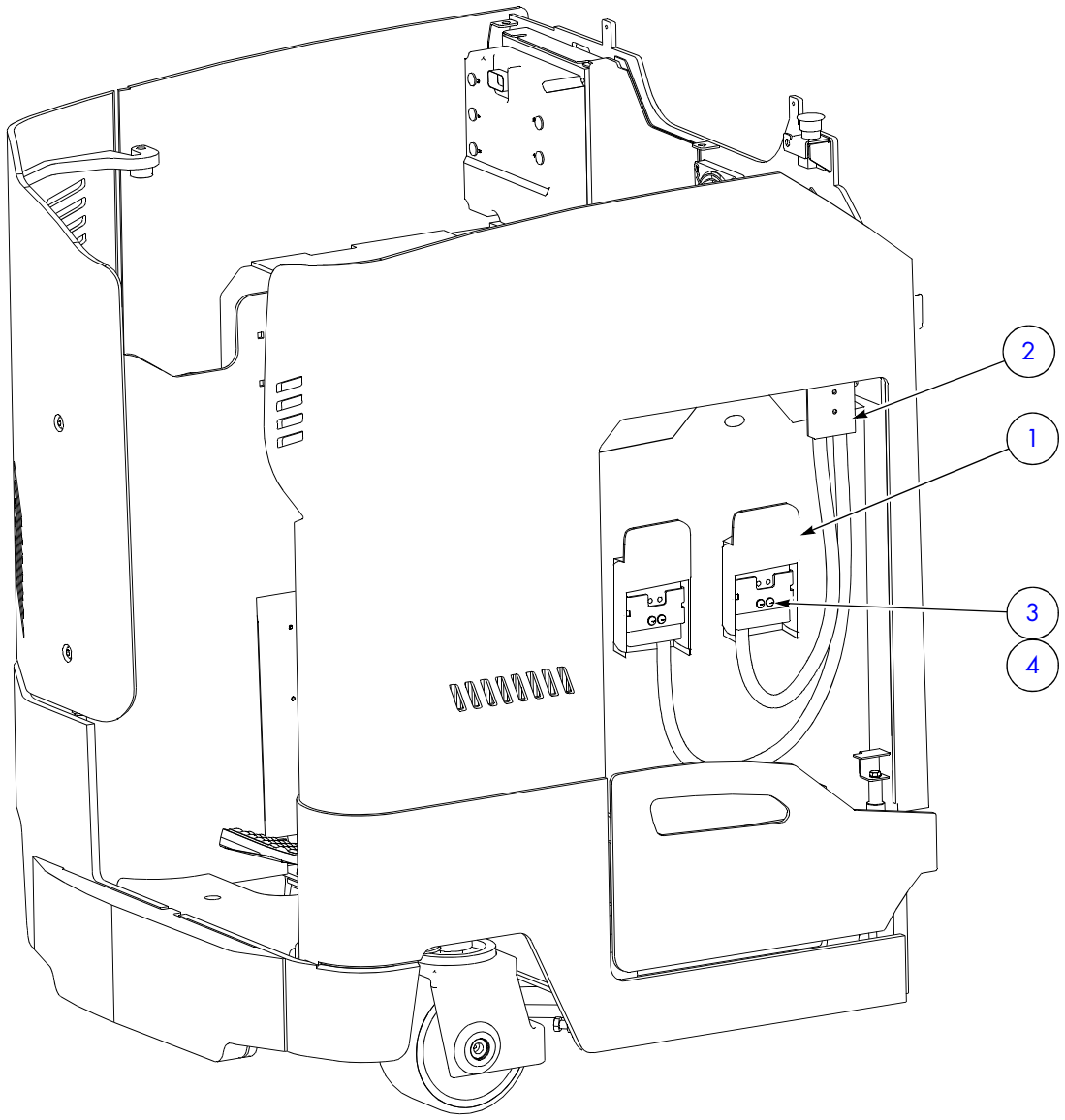
FIGURE 8-6 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	Ref.	Frame Alteration Weldment, Tractor (Contact Technical Support)	
2	1	Ref.	Guard Alteration Weldment, Overhead (Contact Technical Support)	
3	1	1059051	Bracket Weldment	
4	1	1030431/009	Post	A
5	1	1056251	Pad, Backrest	
6	2	5-004-022	Screw	
7	1	5-001-015	Screw	
8	1	5-001-010	Screw	
9	2	5-018-006	Washer, Flat	
10	2	5-018-012	Washer, Flat	
11	2	5-016-005	Nut, Lock	

A= Stock Length, Cut off Excess Tube and Redrill 0.5 in. Hole as Required

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Rapid Charge Battery Connector Installation

Figure 8-7: Rapid Charge Battery Connector Installation



List 8-7: Rapid Charge Battery Connector Installation

FIGURE 8-7 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	1017222	Bracket Weldment, Disconnect	
2	1	1018139	Connector, Battery, Rapid Charge	
3	8	772-116	Washer, Lock	
4	8	701-200	Screw	

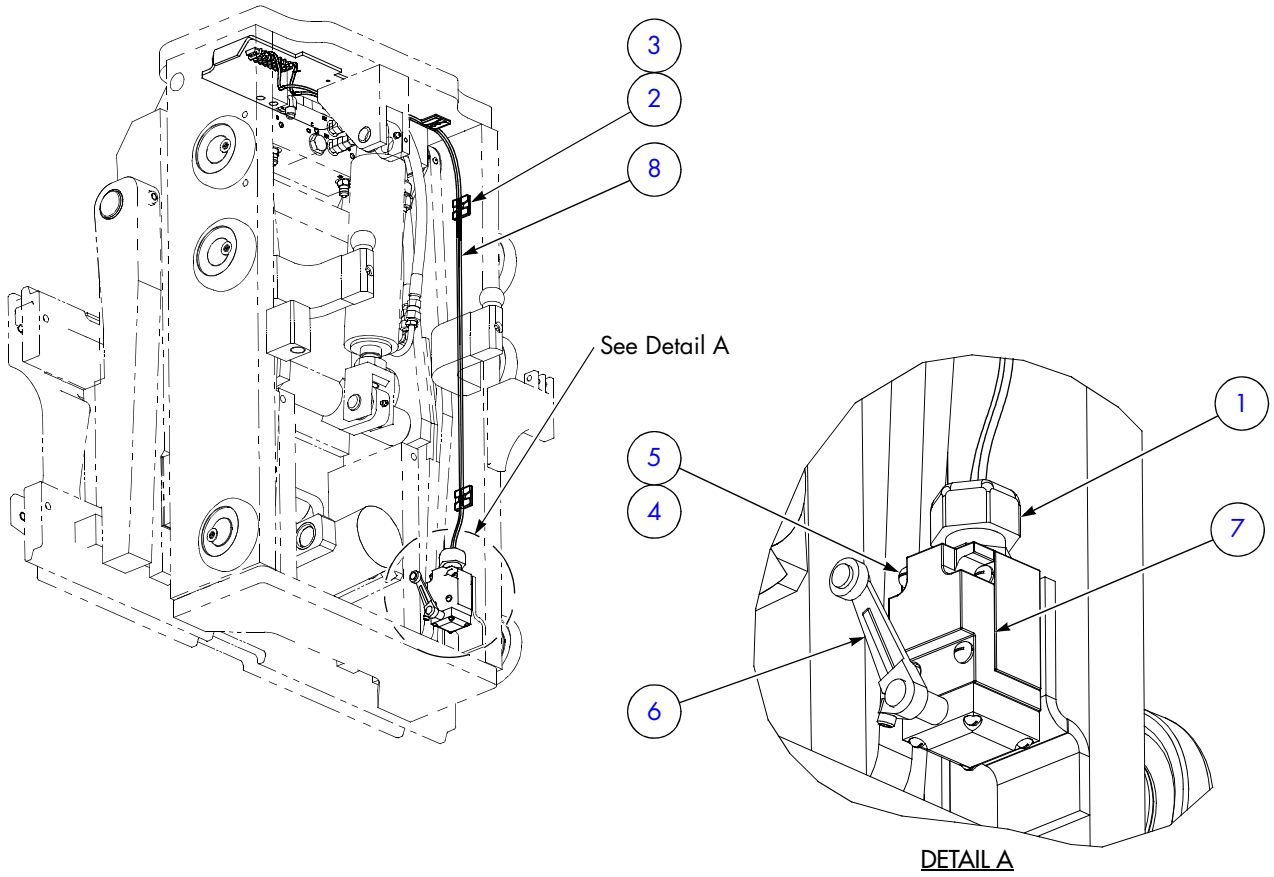
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Nested Switch (S14) Installation, Standard Reach

Figure 8-8: Nested Switch (S14) Installation, Standard Reach



R1019546_A1 R1019546_A2

List 8-8: Nested Switch (S14) Installation, Standard Reach

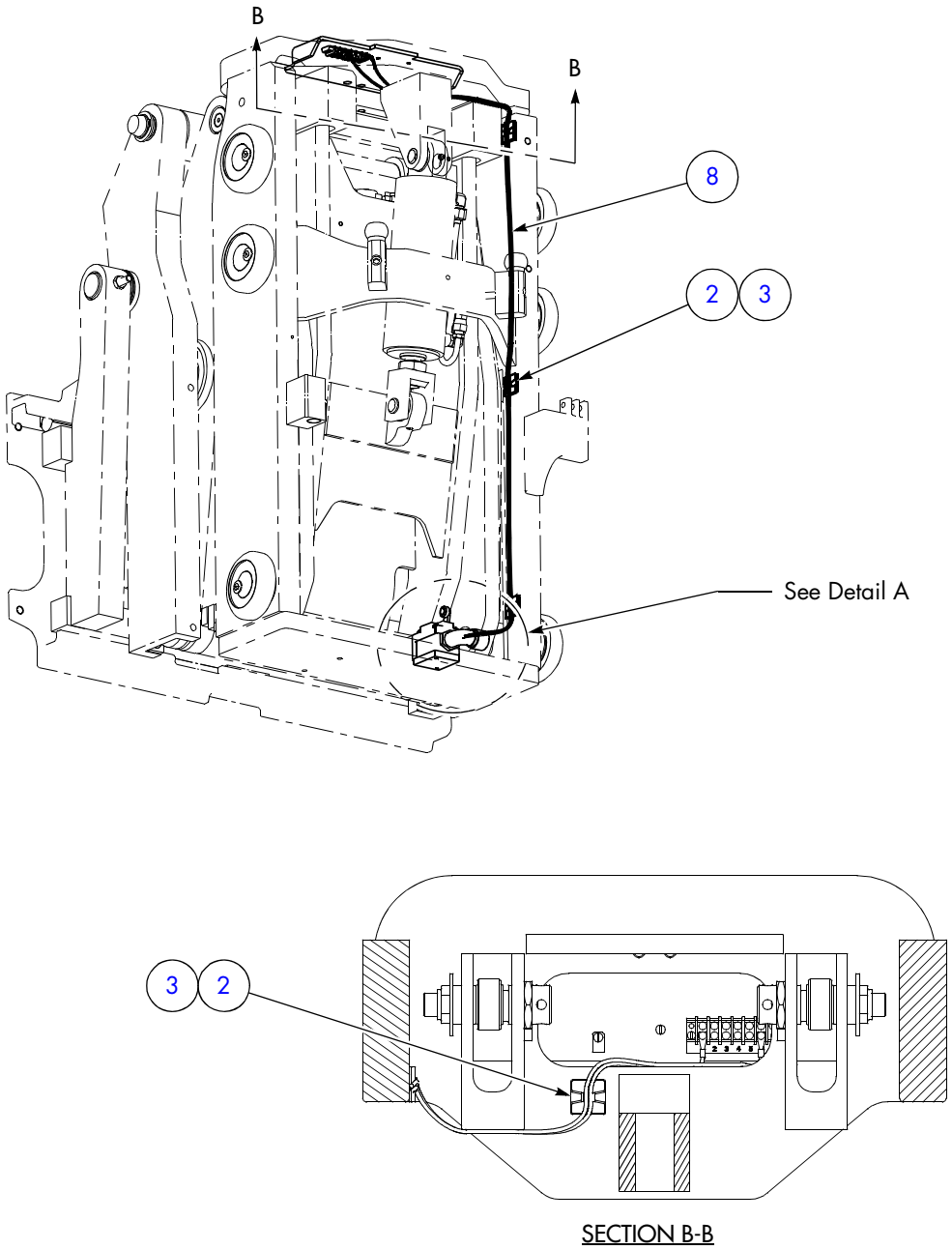
FIGURE 8-8 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	600-316	Grip, Cable	
2	3	611-029	Cable Tie	
3	3	611-044	Anchor, Cable Tie, Adhesive-Backed	
4	2	701-132	Screw	
5	2	772-112	Washer, Lock	
6	1	1-150-113	Arm, Lever	
7	1	1-150-406	Switch, Limit (Nested Forks) (S14)	R
8	1	1070550	Harness, Nested Forks Switch (S14), Standard Reach	

R= Recommended Spare

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Nested Switch (S14) Installation, *Deep-Reach*®

Figure 8-9a: Nested Switch (S14) Installation, Deep-Reach®

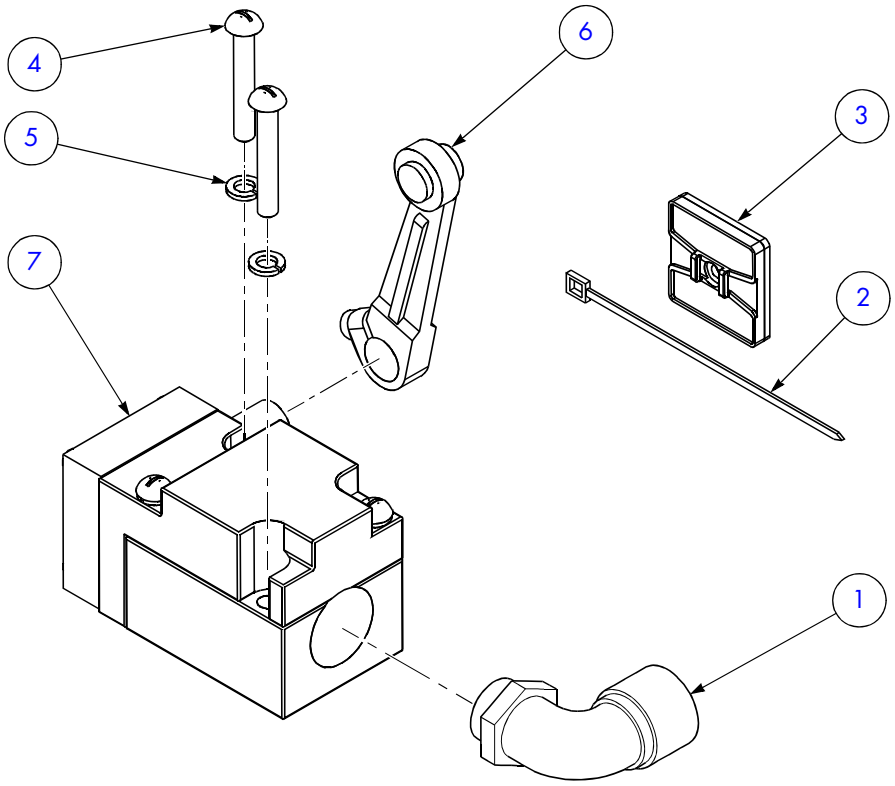


1070725_A R1019547_A3 SHT 1 OF 2

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Nested Switch (S14) Installation, Deep-Reach®

Figure 8-9b: Nested Switch (S14) Installation, Deep-Reach®



DETAIL A

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List 8-9: Nested Switch (S14) Installation, Deep-Reach®

FIGURE 8-9 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	600-311	Grip, Cable	
2	4	611-029	Cable Tie	
3	4	611-044	Anchor, Cable Tie, Adhesive-Backed	
4	2	701-132	Screw	
5	2	772-112	Washer, Lock	
6	1	1-150-113	Arm, Lever	
7	1	1-150-406	Switch, Limit (Nested Forks) (S14)	R
8	1	1070550	Harness, Nested Forks Switch (S14), DR32TT	

R= Recommended Spare

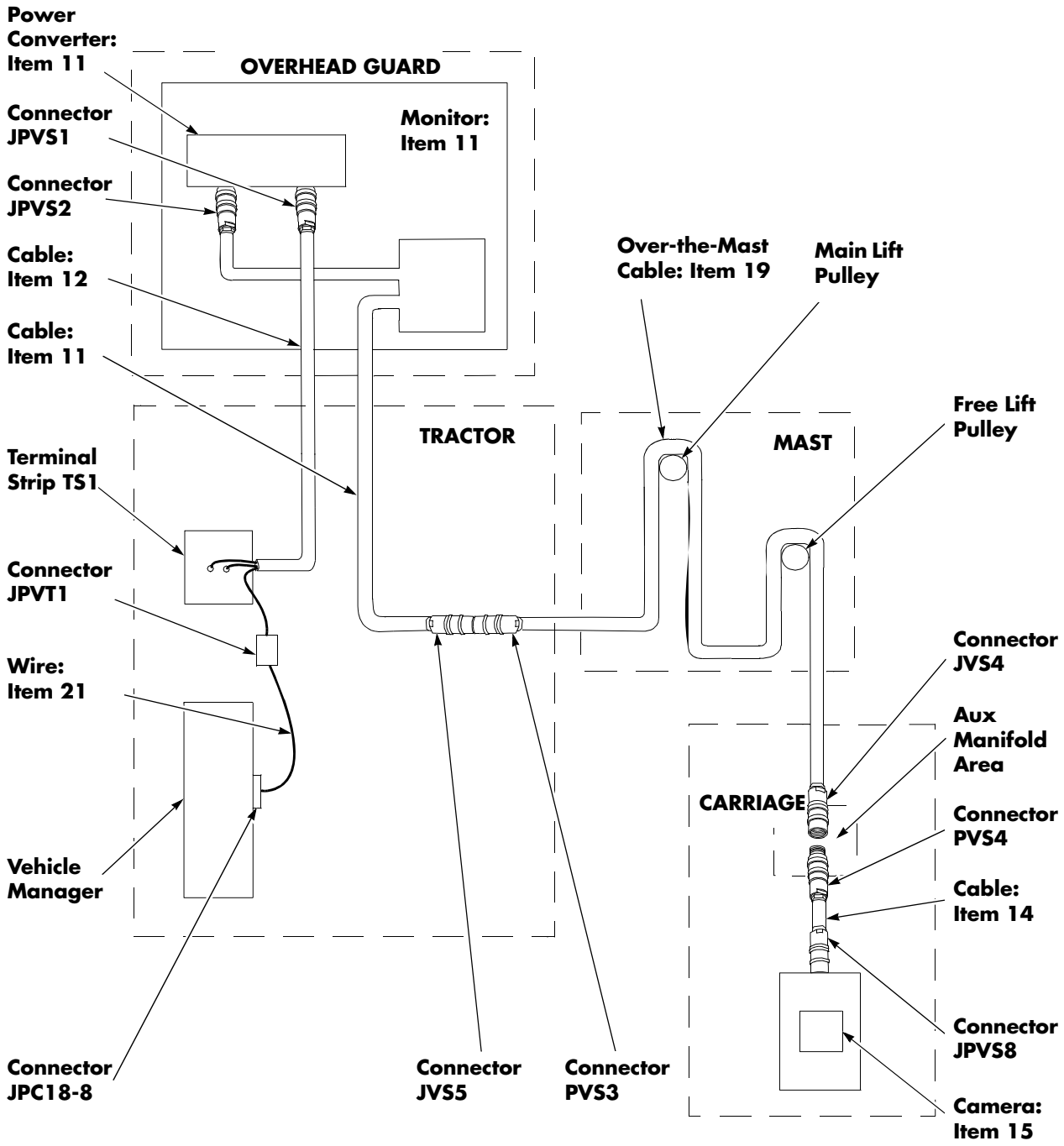
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Vantage Point System

Figure 8-10a: Vantage Point System



SYSTEM BLOCK DIAGRAM

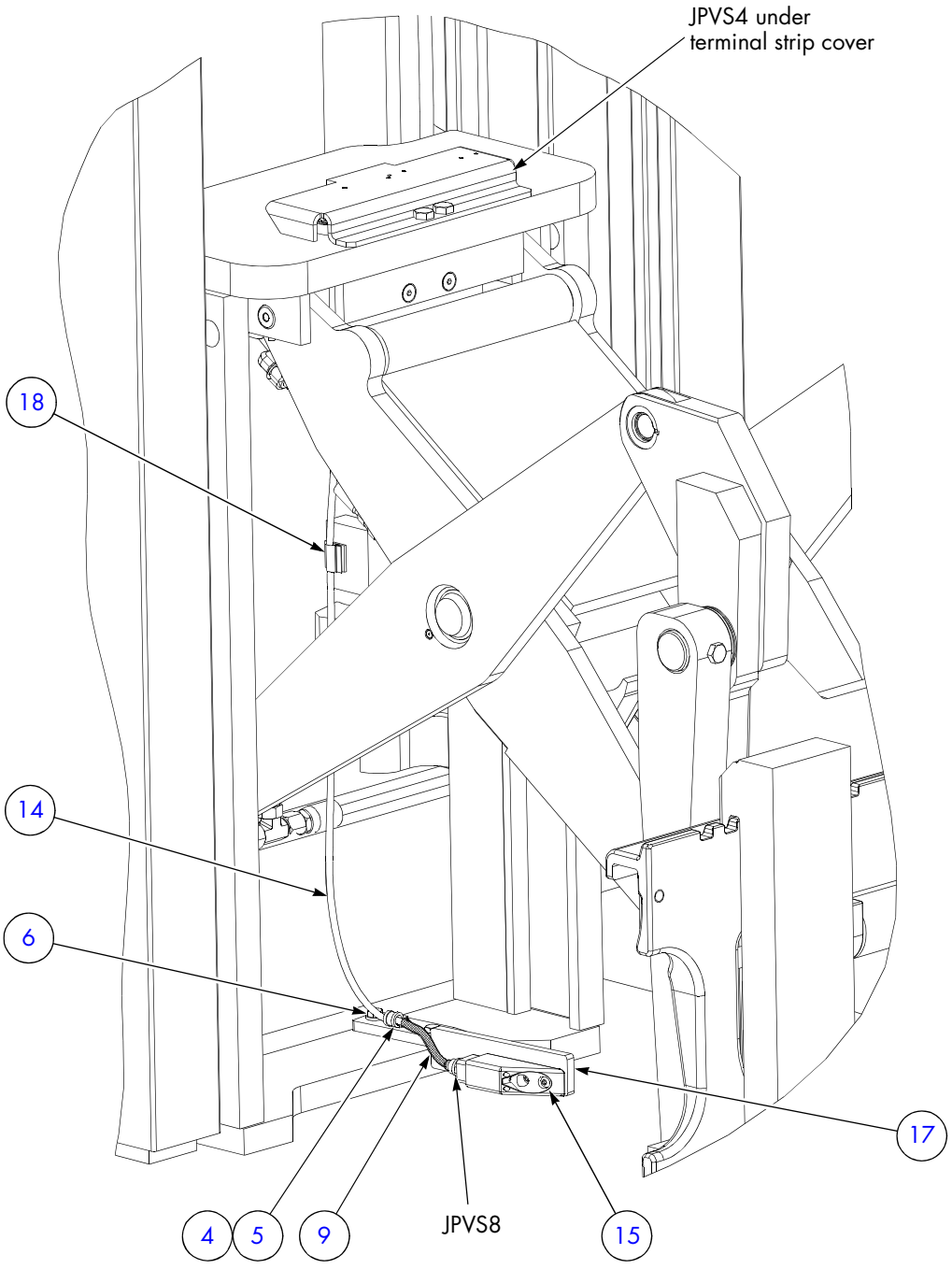
8803_02 SHT 1 OF 16

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Vantage Point System

Figure 8-10b: Vantage Point System

Camera Mounting
Model 7400 Standard Reach



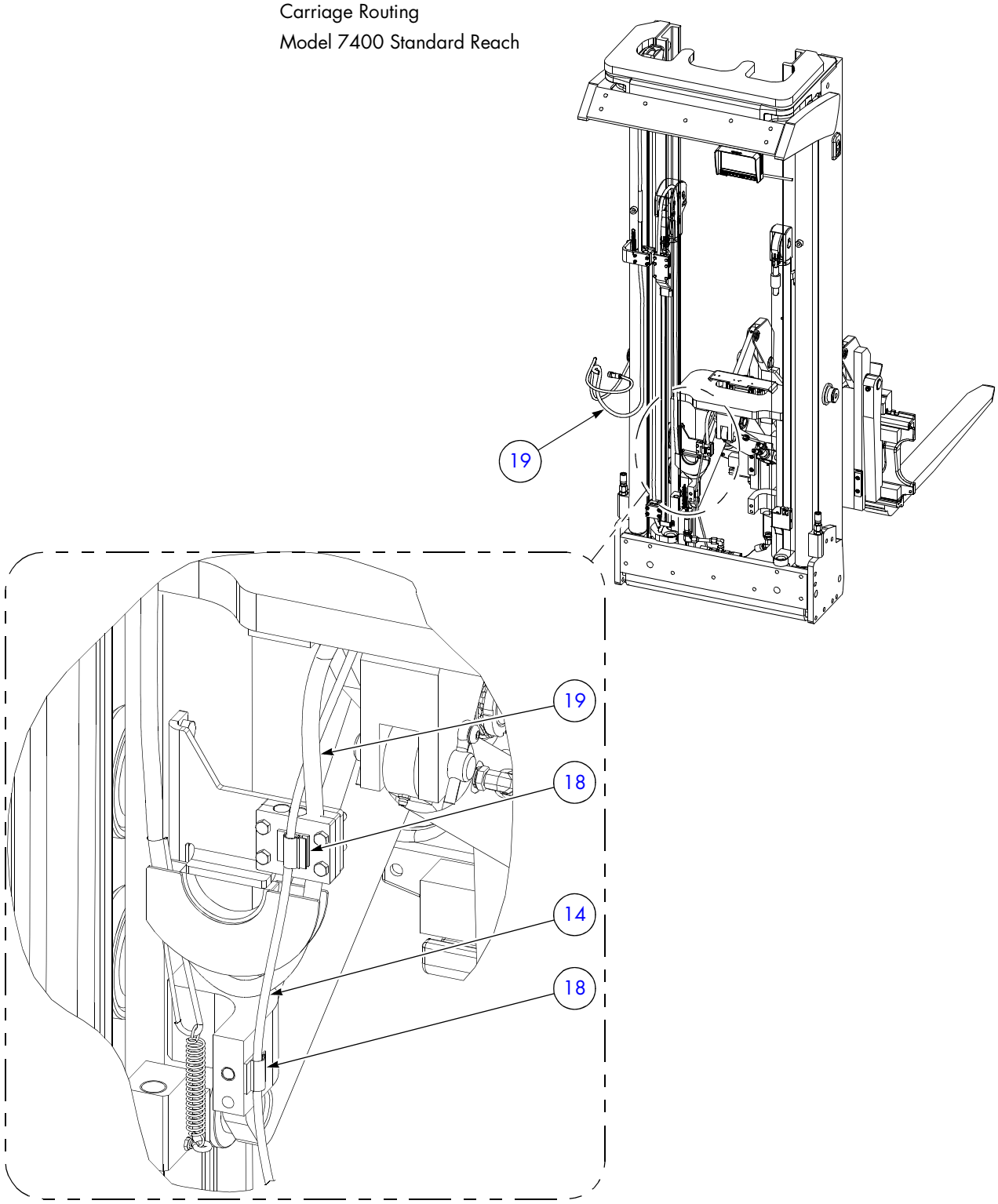
1058514_6 SHT 2 OF 16

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Vantage Point System

Figure 8-10c: Vantage Point System

Carriage Routing
Model 7400 Standard Reach

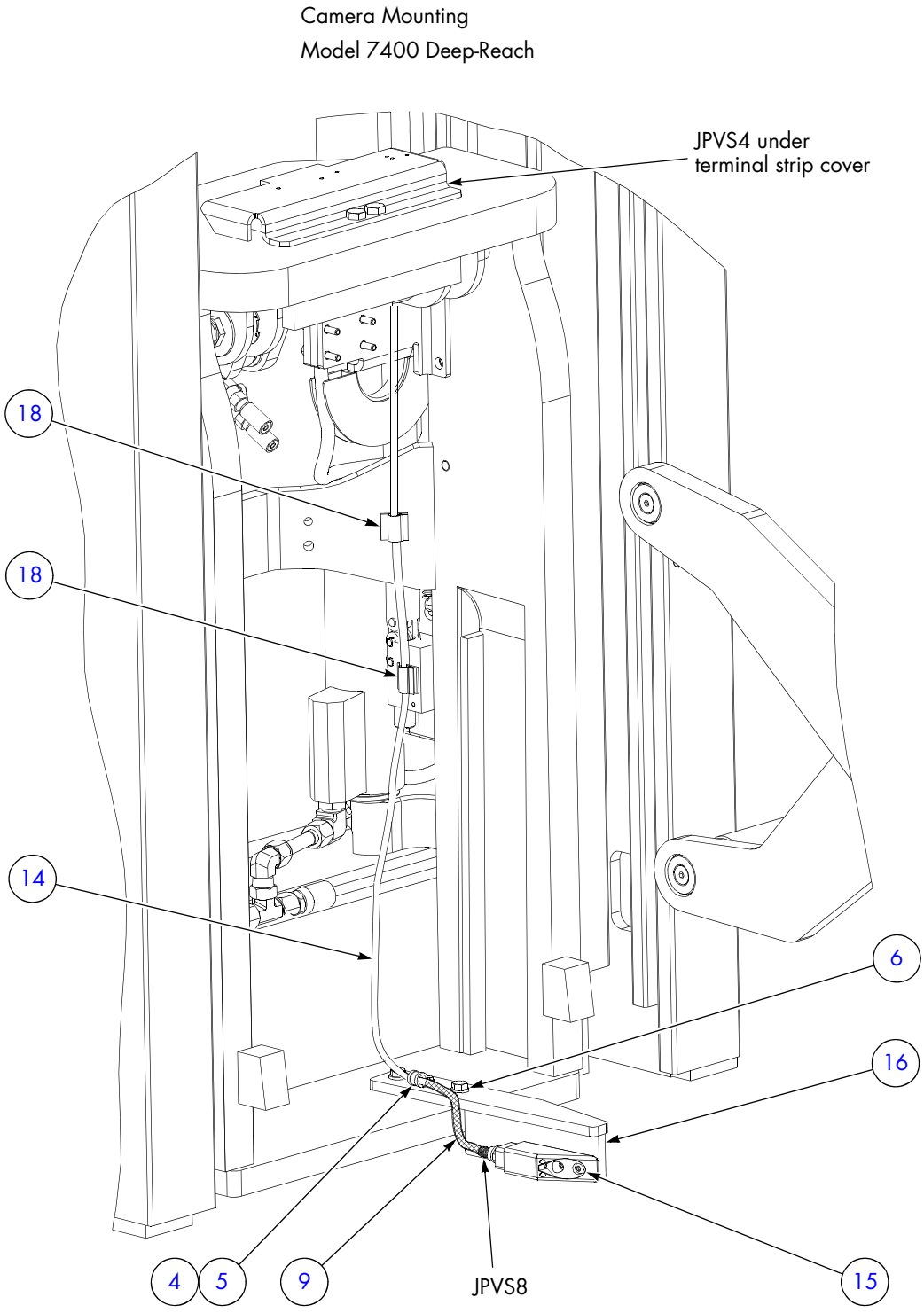


1061798_A3 1058514_4C SHT 3 OF 16

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Vantage Point System

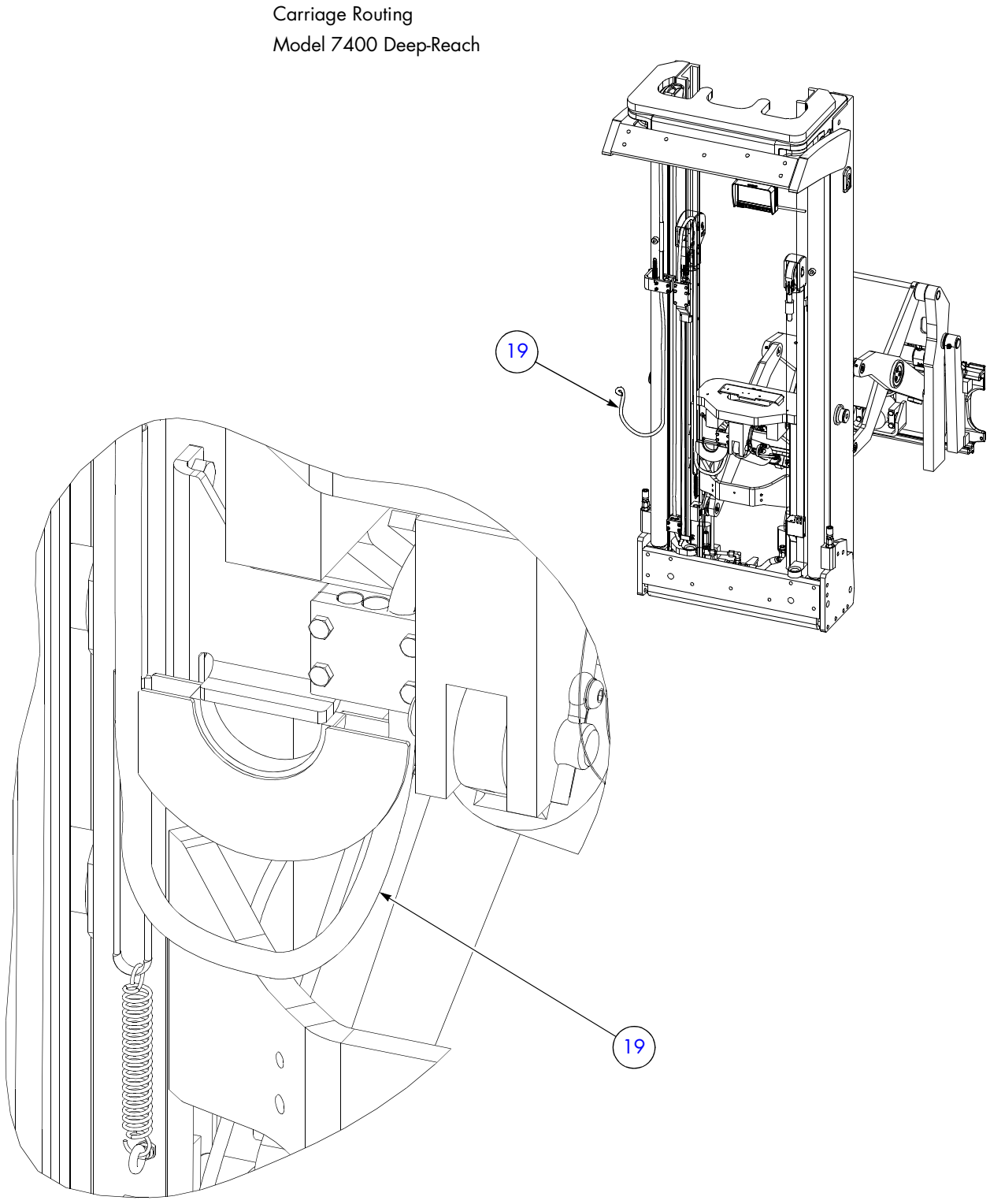
Figure 8-10d: Vantage Point System



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Vantage Point System

Figure 8-10e: Vantage Point System

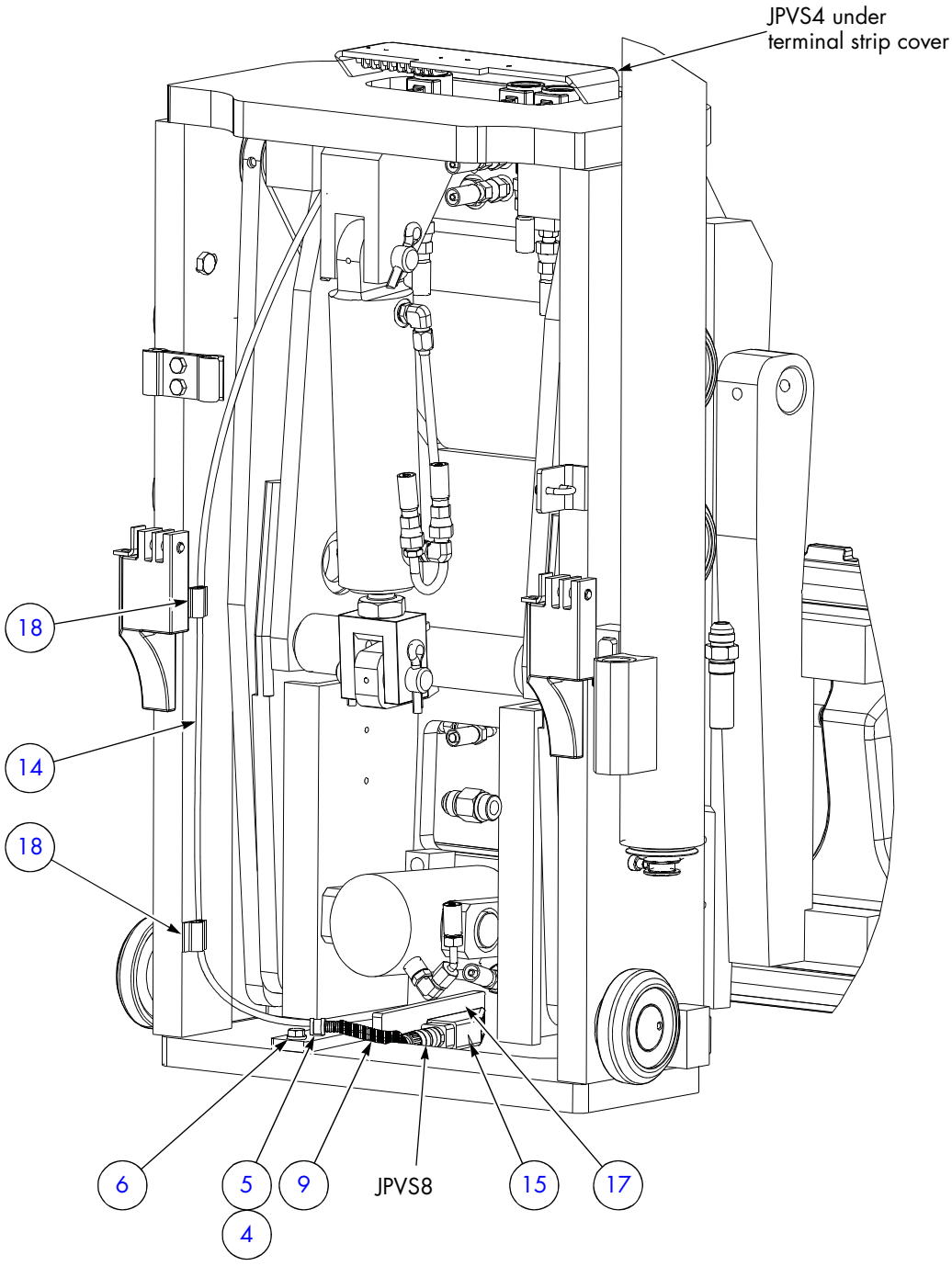


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Vantage Point System

Figure 8-10f: Vantage Point System

Camera Mounting
Model 7420 Standard Reach

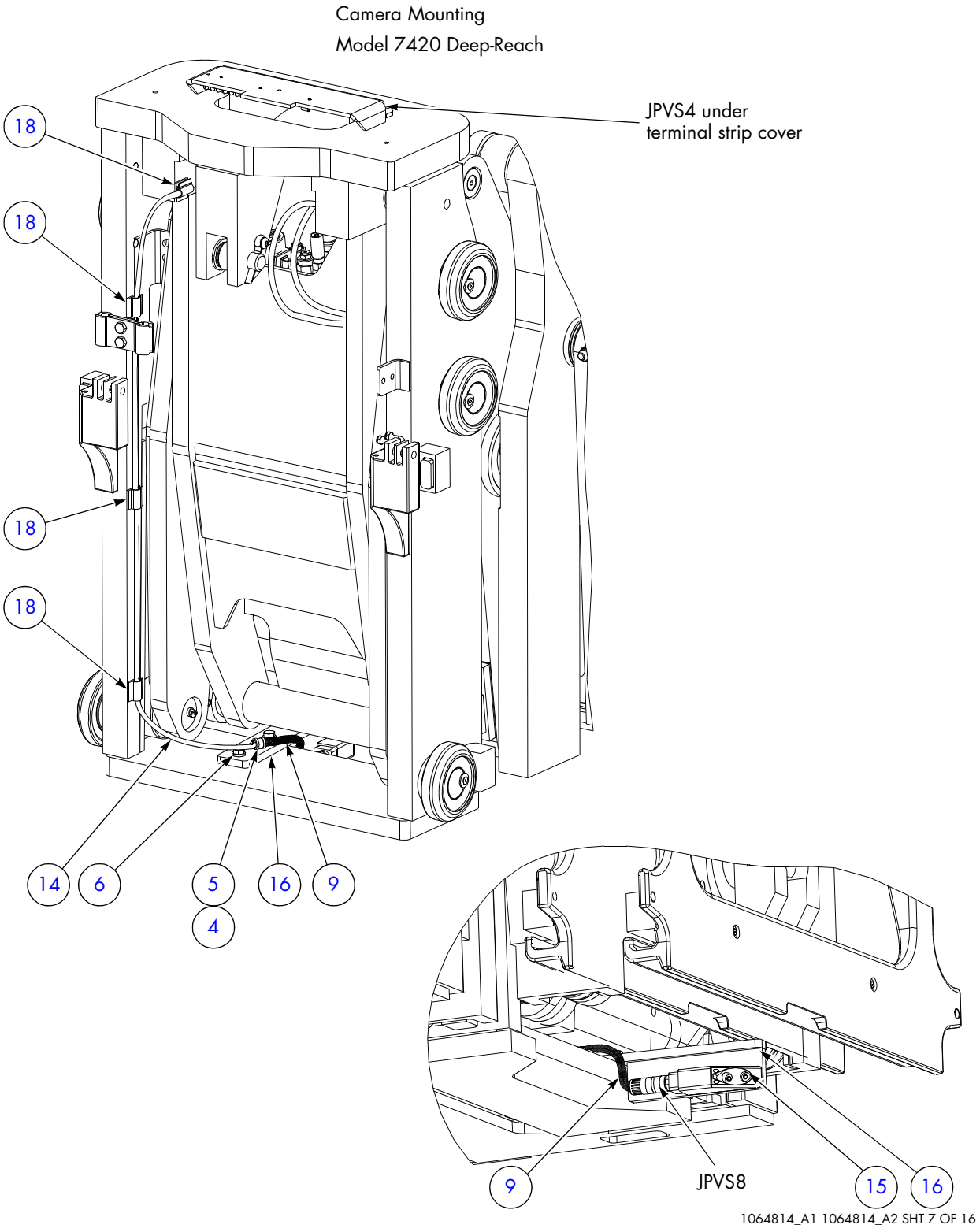


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Vantage Point System

Figure 8-10g: Vantage Point System

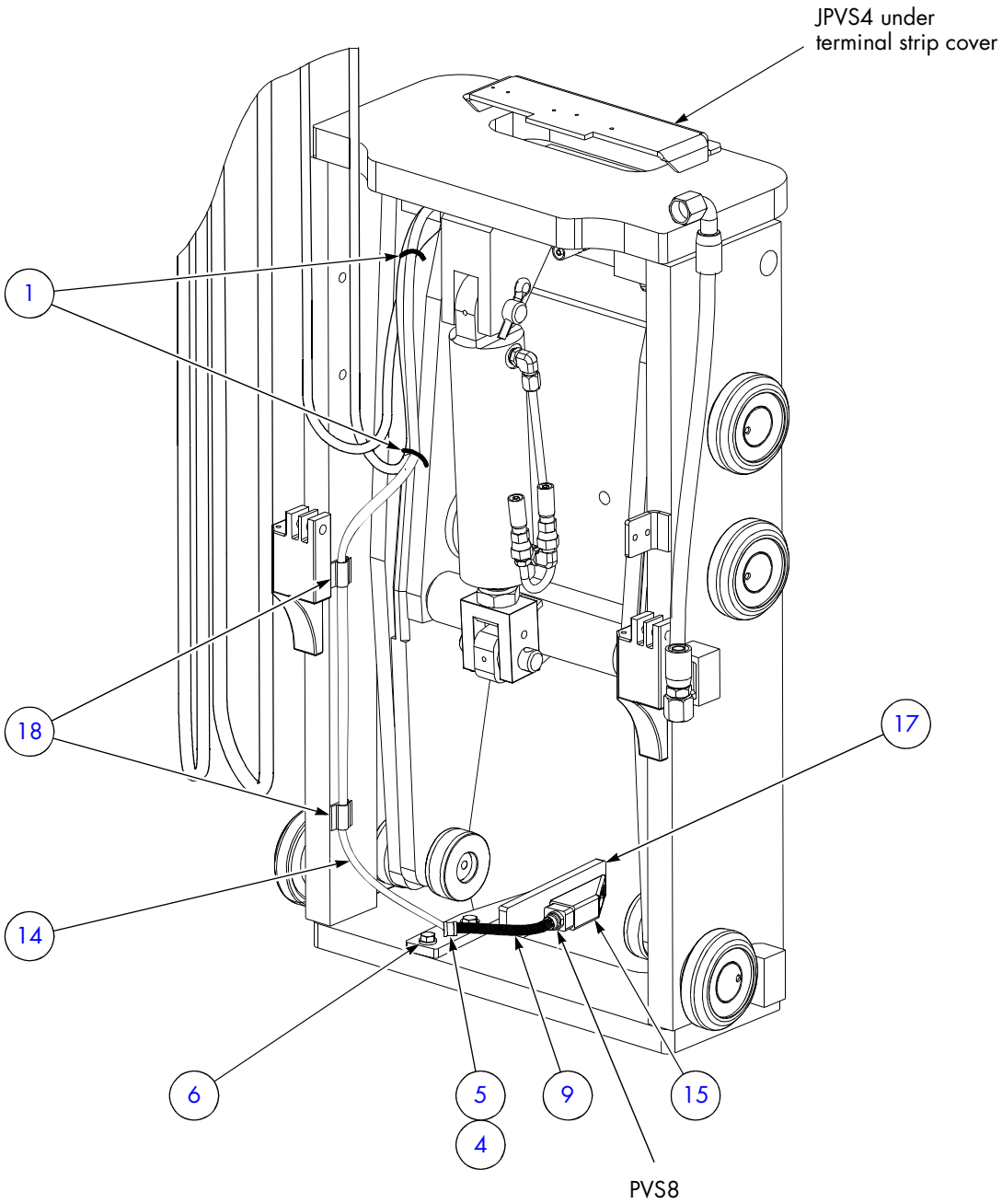


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Vantage Point System

Figure 8-10h: Vantage Point System

Camera Mounting
Model 7440 Standard Reach

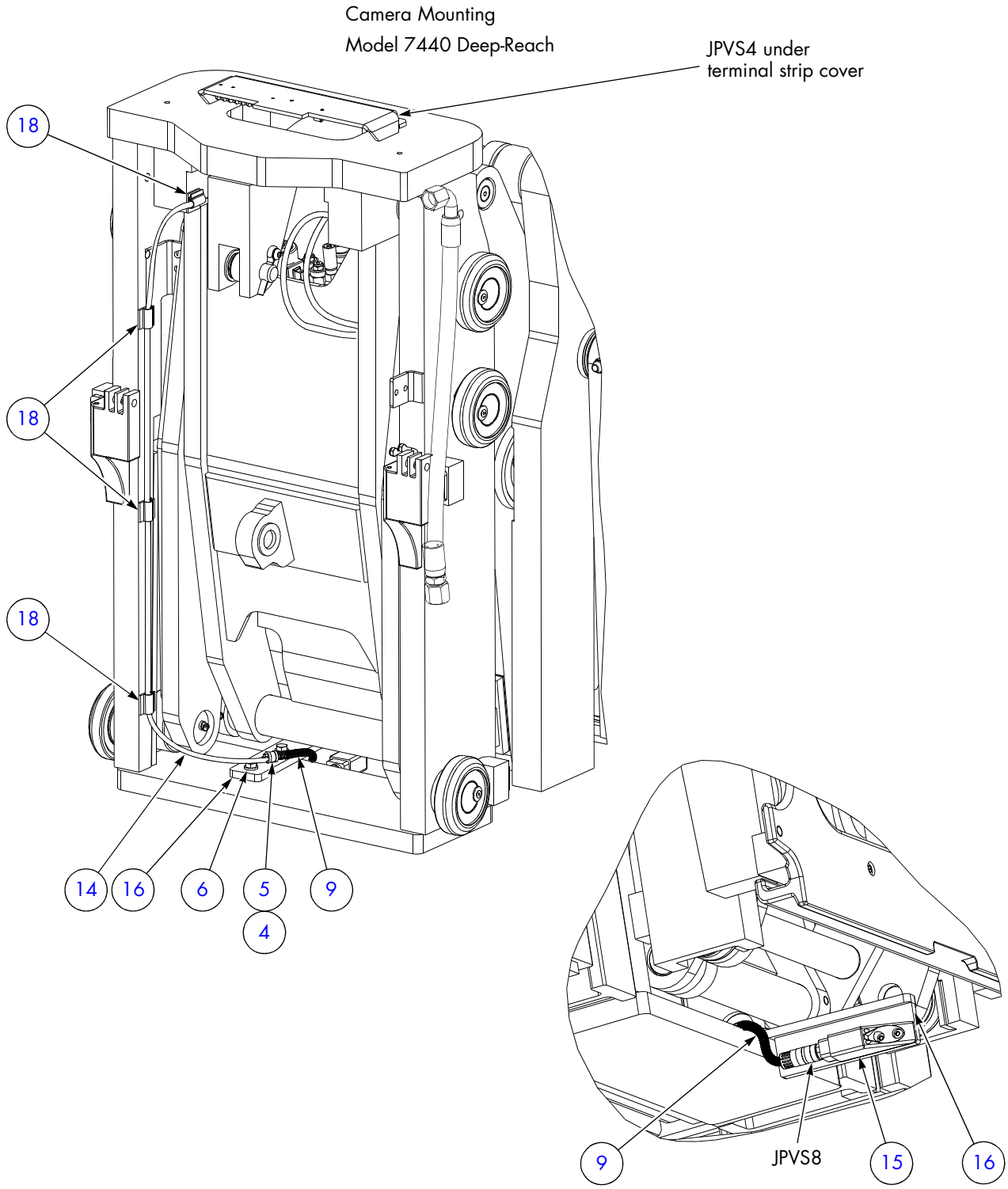


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Vantage Point System

Figure 8-10i: Vantage Point System



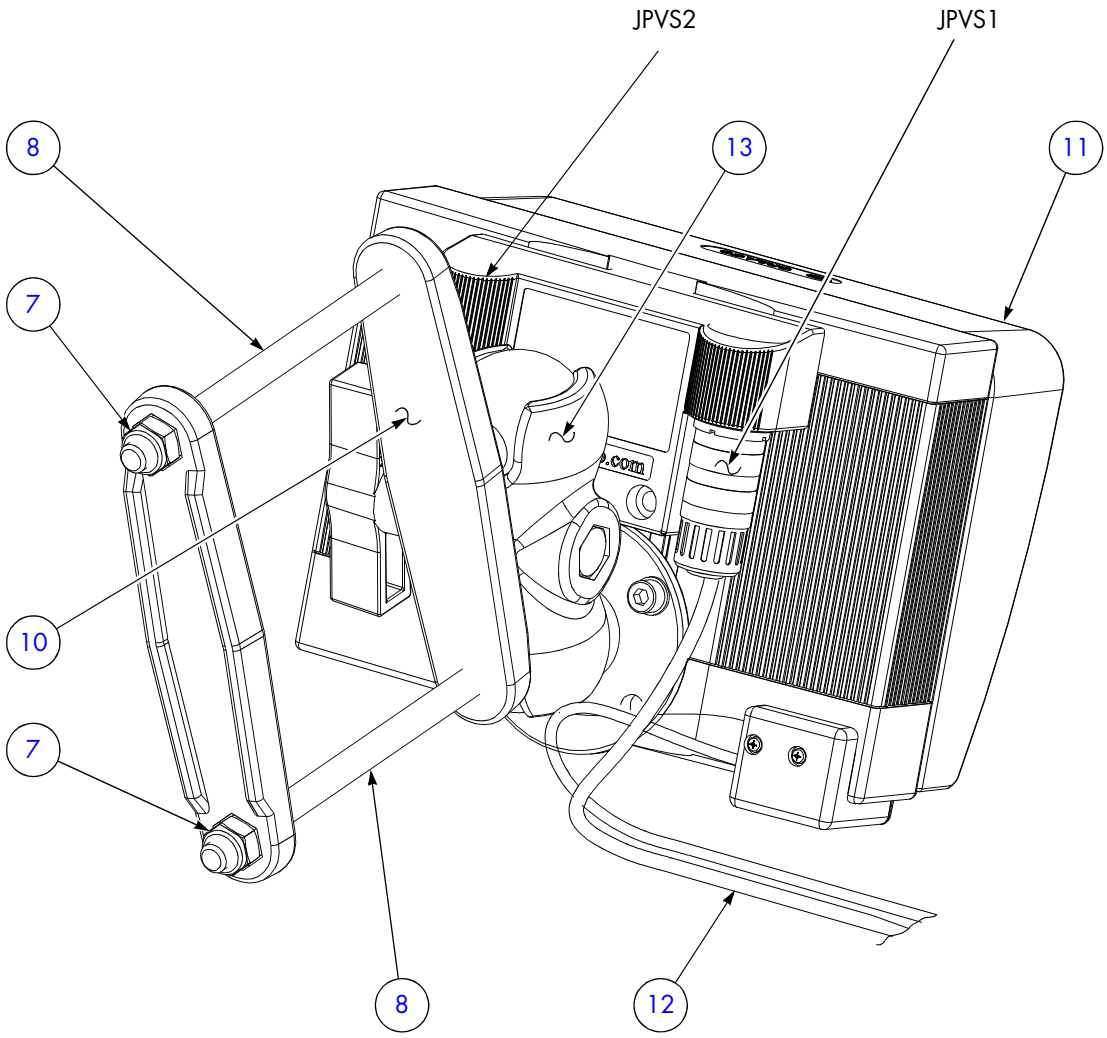
1064812_A2 1064812_A2 SHT 9 OF 16

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Vantage Point System

Figure 8-10j: Vantage Point System

Display Mounting
Model 7400, 7420, 7440



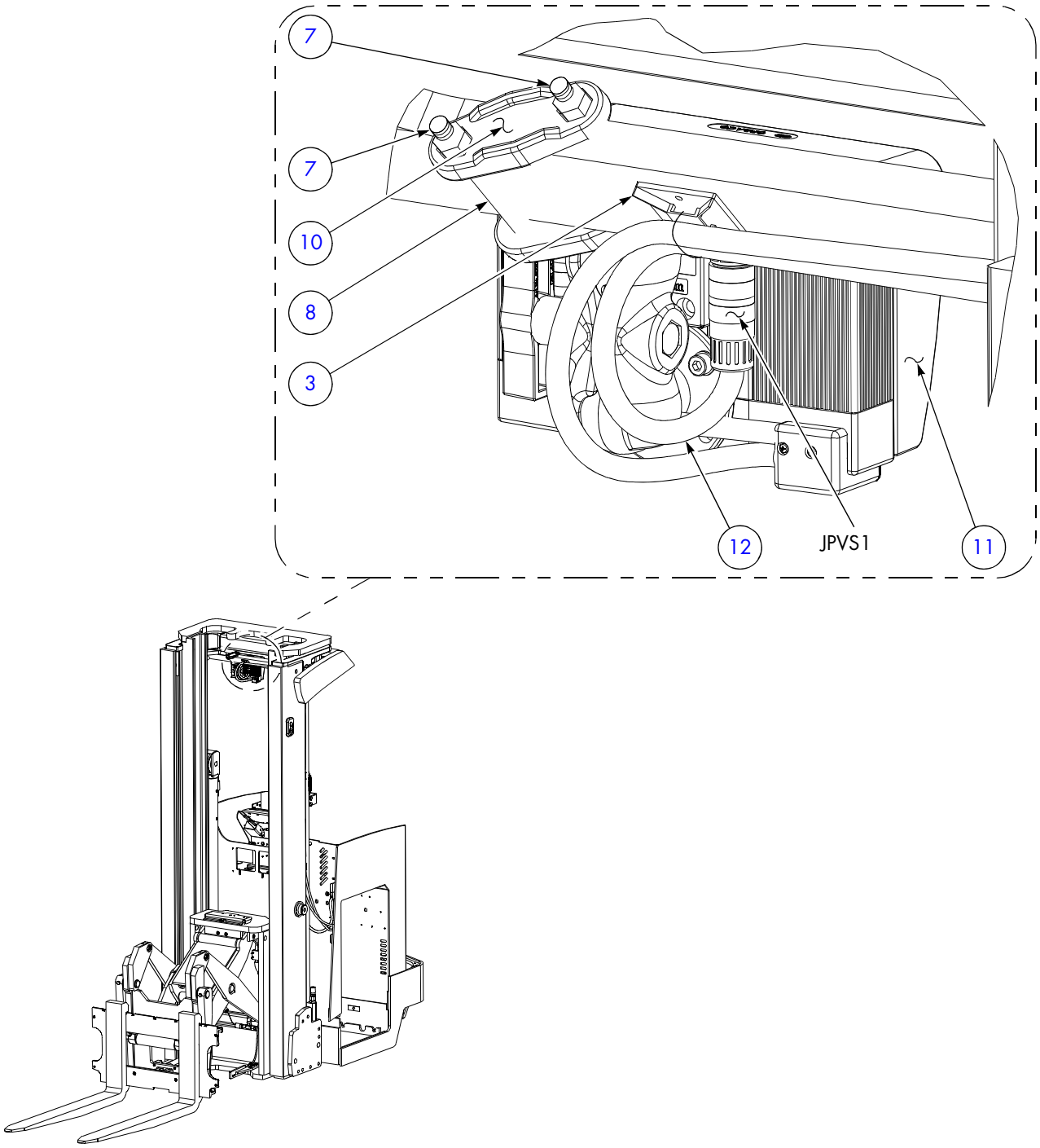
1063787_A2 SHT 10 OF 16

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Vantage Point System

Figure 8-10k: Vantage Point System

Display Mounting
Model 7400

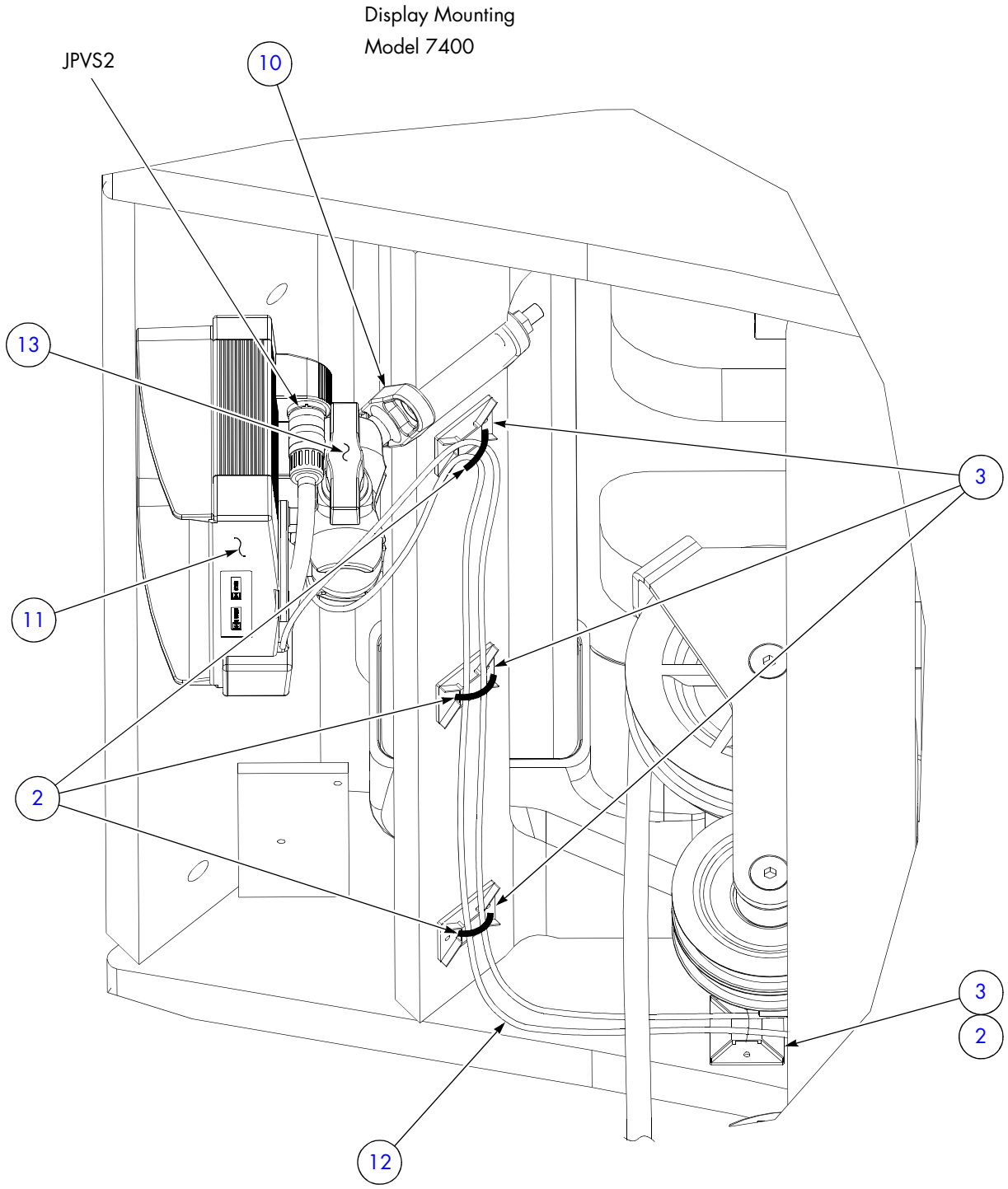


1061798_A1 1061798_A2 SHT 11 OF 16

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Vantage Point System

Figure 8-10l: Vantage Point System



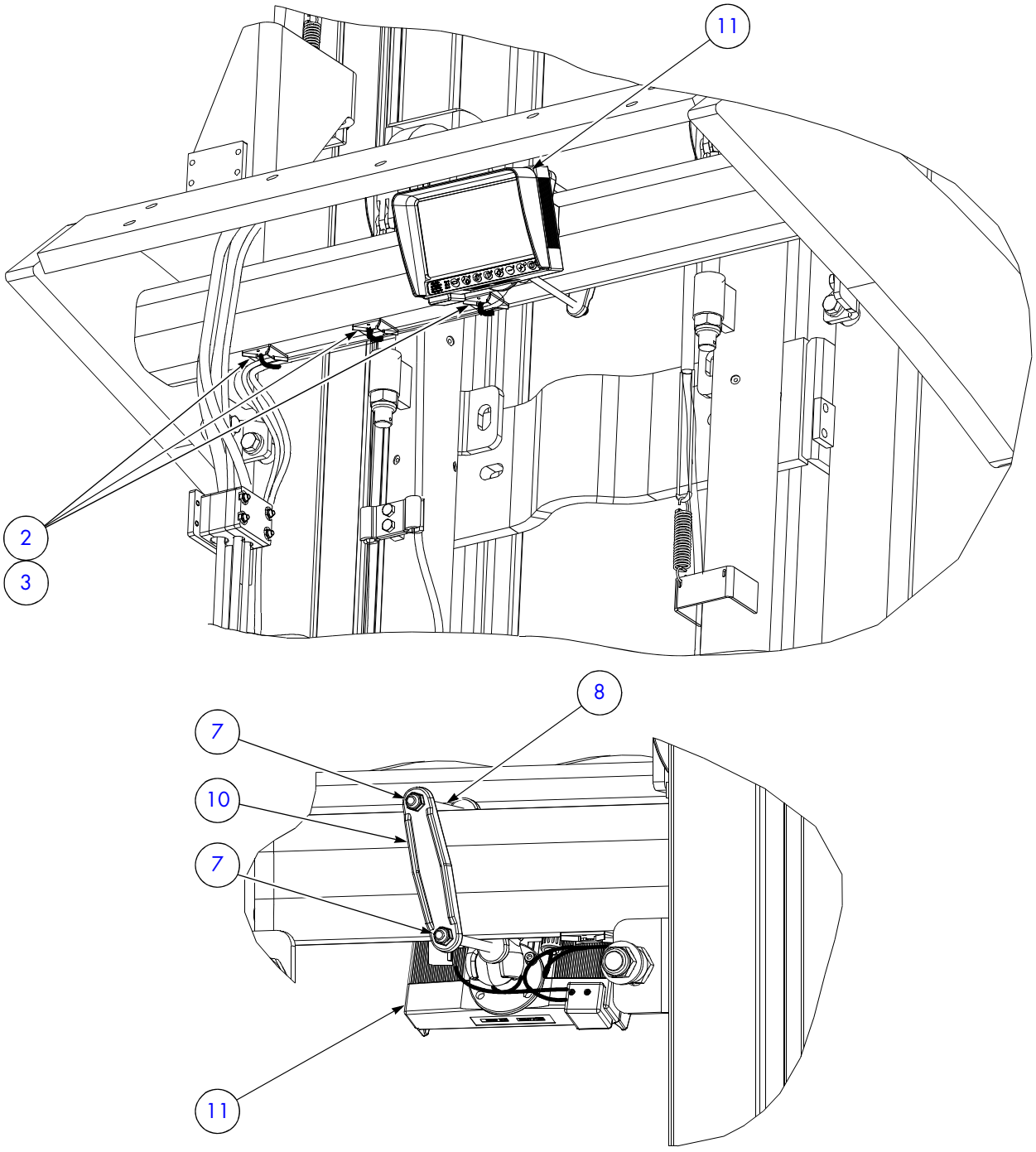
1058514_3 SHT 12 OF 16

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Vantage Point System

Figure 8-10m: Vantage Point System

Display Mounting
Model 7420 and 7440



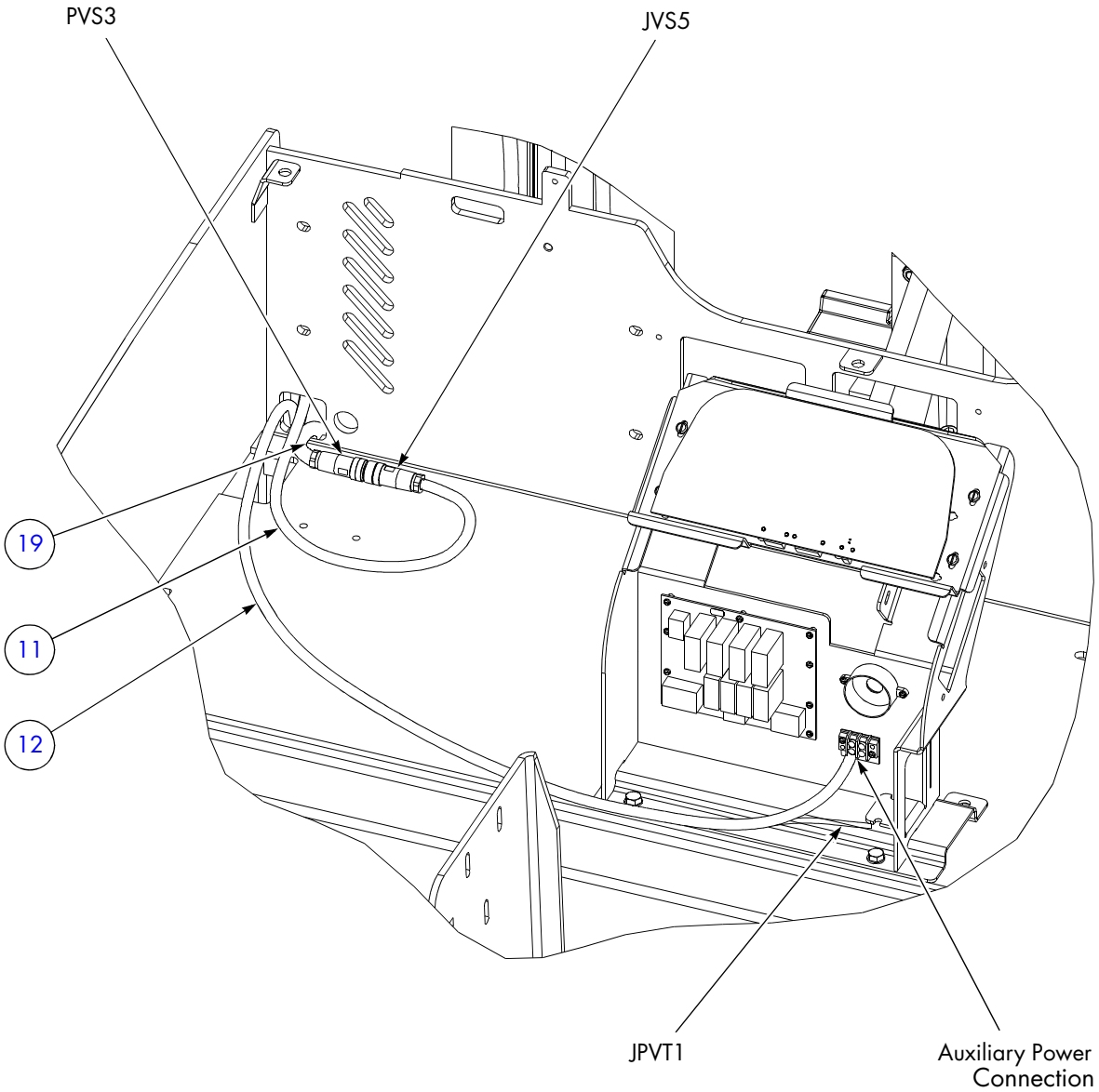
1063787_A1 1063786_A2 SHT 13 OF 16

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Vantage Point System

Figure 8-10n: Vantage Point System

Tractor Connections
Fore-Aft Stance
(Model 7400 shown, 7420 and 7440 similar)



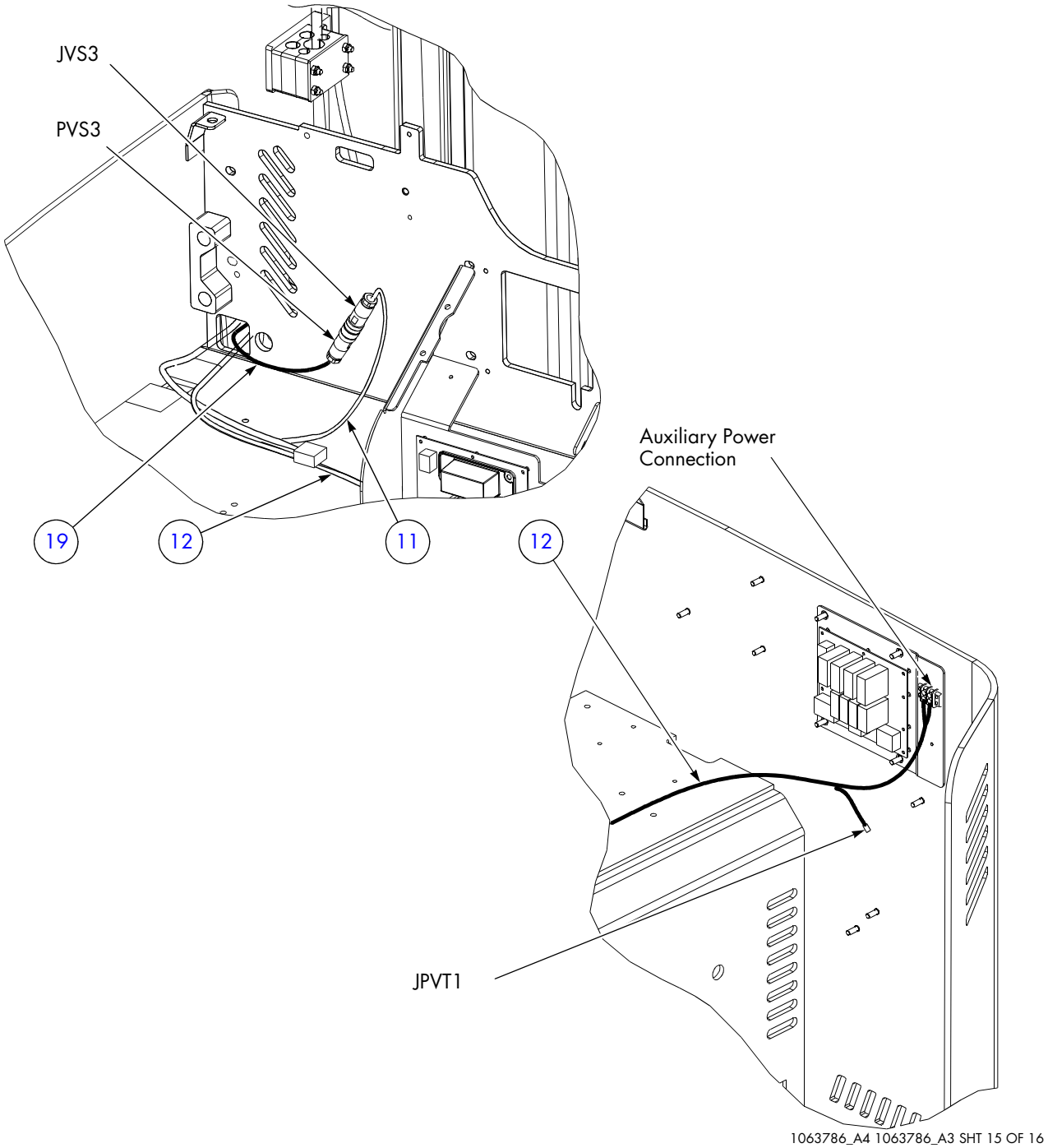
1061798 SHT 14 OF 16

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Vantage Point System

Figure 8-10o: Vantage Point System

Tractor Connections
Side Stance
(Model 7420/7440 shown, 7400 similar)

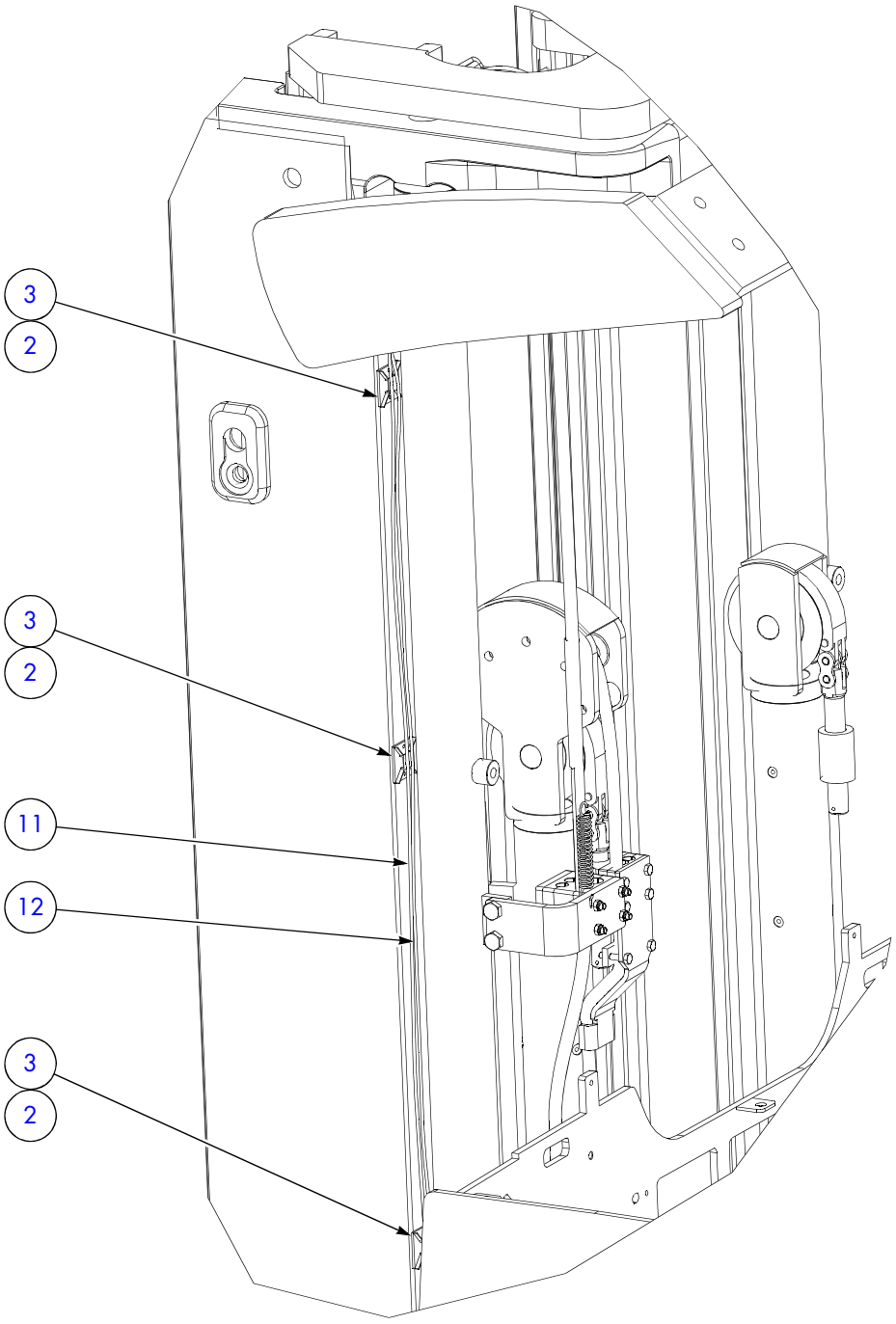


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Vantage Point System

Figure 8-10p: Vantage Point System

Cable Ties to Mast
(Model 7400 shown, 7420 and 7440 similar)



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List 8-10: Vantage Point System

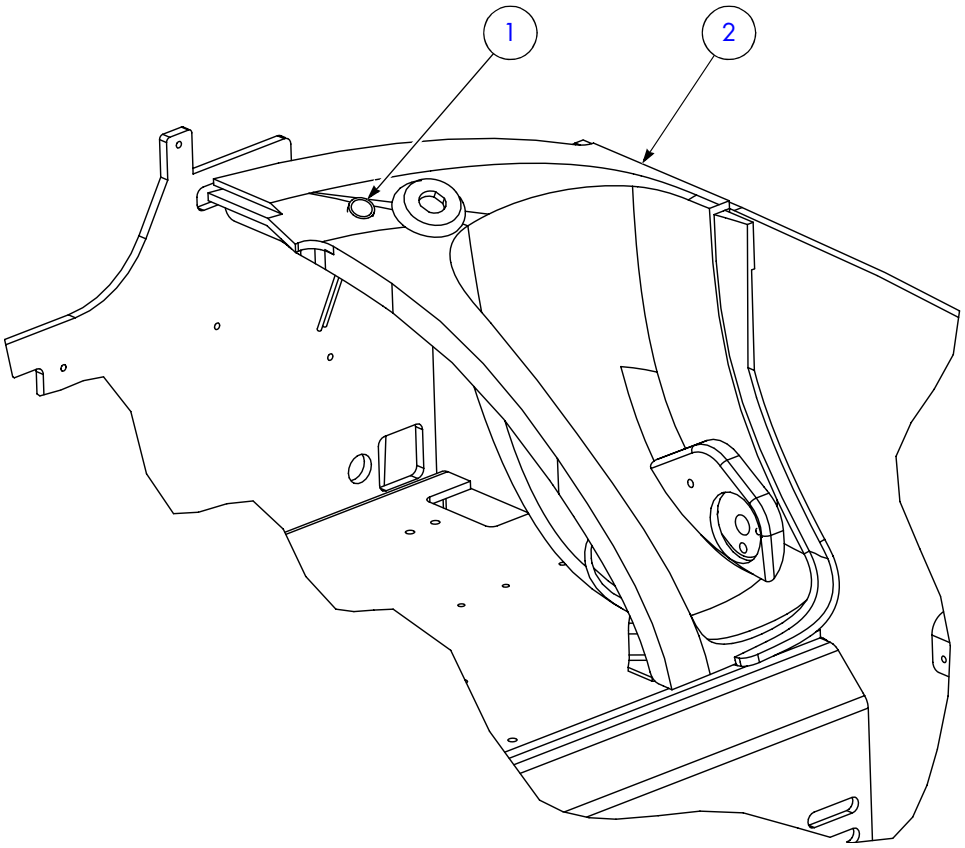
FIGURE 8-10 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-028	Cable Tie	
2	AR	611-029	Cable Tie	
3	AR	611-088	Anchor, Cable Tie, Adhesive-Backed	
4	1	1-074-087/005	Clamp, Cushioned Cable	
5	1	5-011-002	Screw, Thread-Forming	
6	2	5-011-009	Screw, Thread-Forming	
7	2	5-016-005	Nut	
8	2	7-714-008/130	Screw	
9	24 in.	1034721	Cable Wrap	
10	1	1039652/001	Clamp, Cable	
11	1	1039653/001	Monitor Assembly	
12	1	1042259/001	Cable Assembly, Power Converter to TS1	
13	1	1047822/001	Clamp, Monitor	
14	1	1053218/002	Cable, Camera JVS8 to OTM PVS4	
15	1	1055451	Camera	
16	1	1057641	Bracket, Camera (DR32TT)	
17	1	1057638	Bracket, Camera (R45TT)	
	1	1074729	Bracket, Camera (R35TT)	A
18	5	1V3-593	Clamp, Cable	
19	1	1080797/006	Cable Assembly, Video, Up to 118 in. OACH	A
	1	1080797/009	Cable Assembly, Video, 119 to 133 in. OACH	A
	1	1080797/015	Cable Assembly, Video, 134 to 160 in. OACH	A
	1	1080989/001	Cable, Mast, Video (142 to 146 in.) JVS4 to PVS3	B
	1	1080989/002	Cable, Mast, Video (147 to 151 in.) JVS4 to PVS3	B
	1	1080989/003	Cable, Mast, Video (152 to 156 in.) JVS4 to PVS3	B
	1	1080989/004	Cable, Mast, Video (157 to 161 in.) JVS4 to PVS3	B
	1	1080989/005	Cable, Mast, Video (162 to 166 in.) JVS4 to PVS3	B
	1	1080989/006	Cable, Mast, Video (167 to 171 in.) JVS4 to PVS3	B
	1	1080989/007	Cable, Mast, Video (172 to 176 in.) JVS4 to PVS3	B
	1	1080989/008	Cable, Mast, Video (177 to 181 in.) JVS4 to PVS3	B
	1	1080989/009	Cable, Mast, Video (182 to 184 in.) JVS4 to PVS3	B
20	5	1049814	Screw, 5/16 x 18 x 3.5 in. (Not Shown)	

A= Model 7400
B= Models 7420 and 7440

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Security Start Switch

Figure 8-11: Security Start Switch



R1026447_A

List 8-11: Security Start Switch

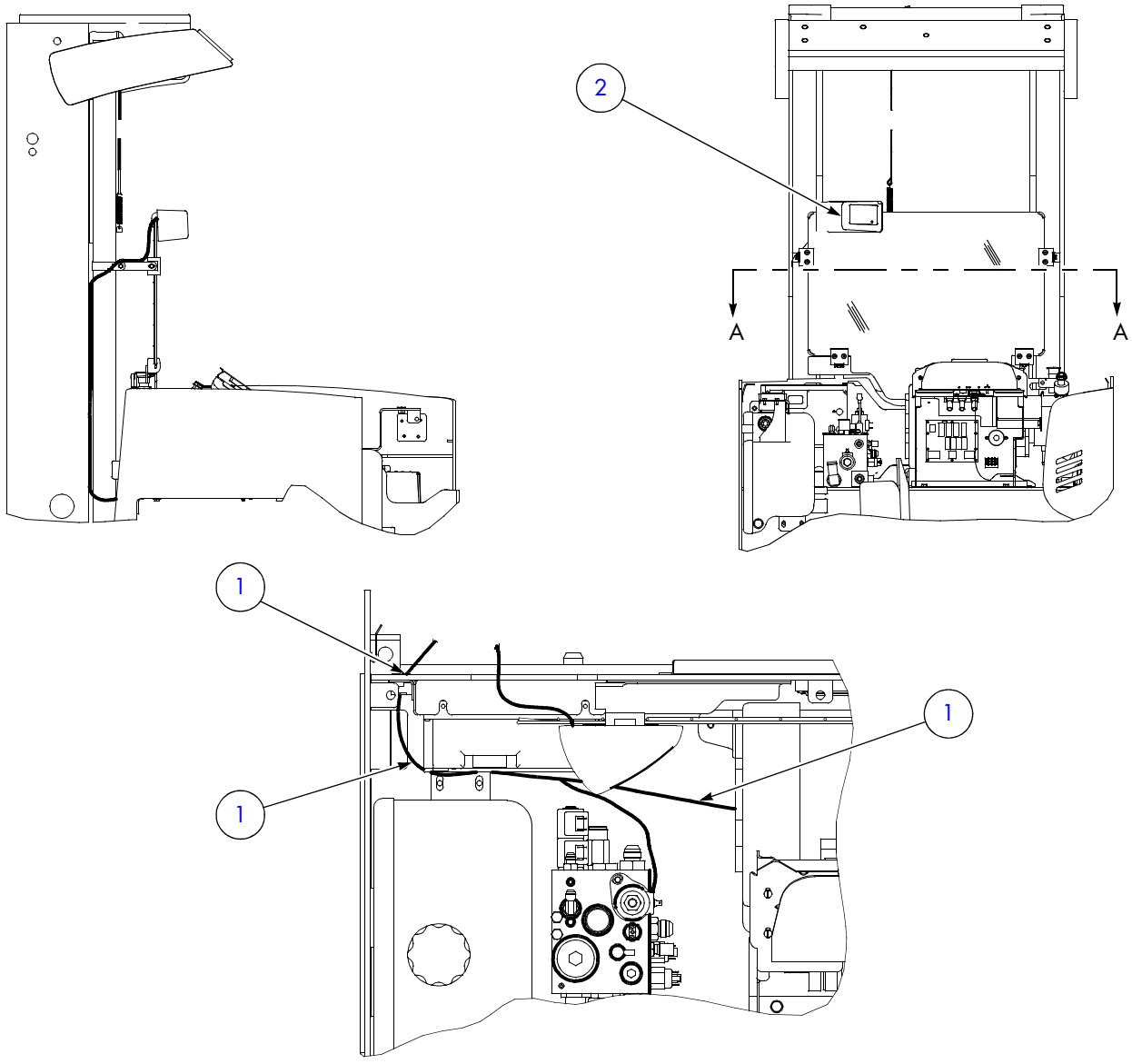
FIGURE 8-11 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1022279	Switch, Security Start (S23)	R
2	1	Ref.	Cover (See item 12 in Figure 2-6a.)	

R= Recommended Spare

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Height-Tilt Indicator Display Installation

Figure 8-12: Height-Tilt Indicator Display Installation



VIEW A-A

R1021607_A1 R1021607_A2 R1021607_A3

List 8-12: Height-Tilt Indicator Display Installation

FIGURE 8-12 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-028	Cable Tie	
2	1	1018708	Display Assembly, Height-Tilt Indicator	
3	AR	Ref.	Shims, Tilt Carriage (Not Shown)	
Note: Trucks with DC Lift Require Encoder Assembly				

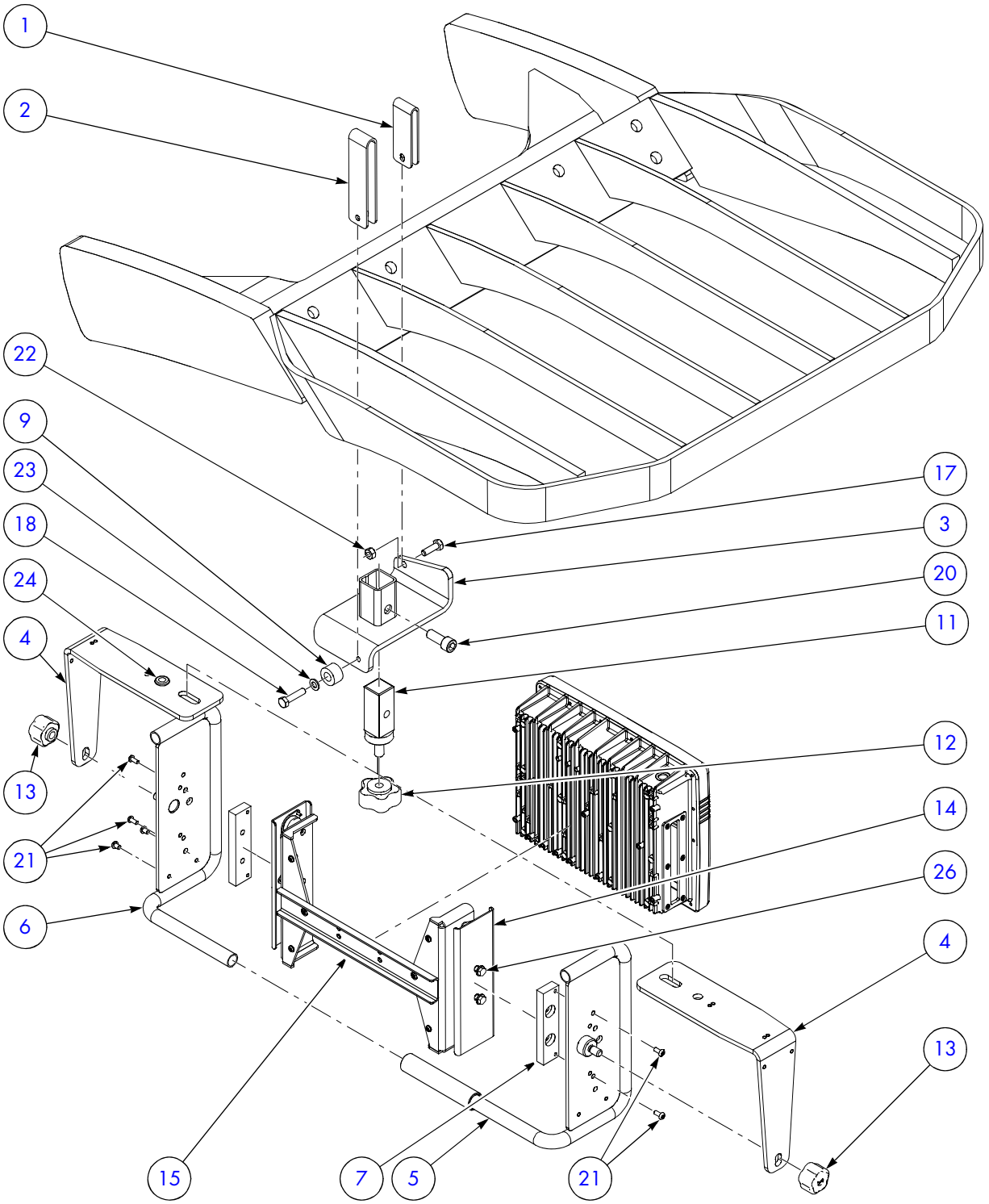
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R.F. Installation

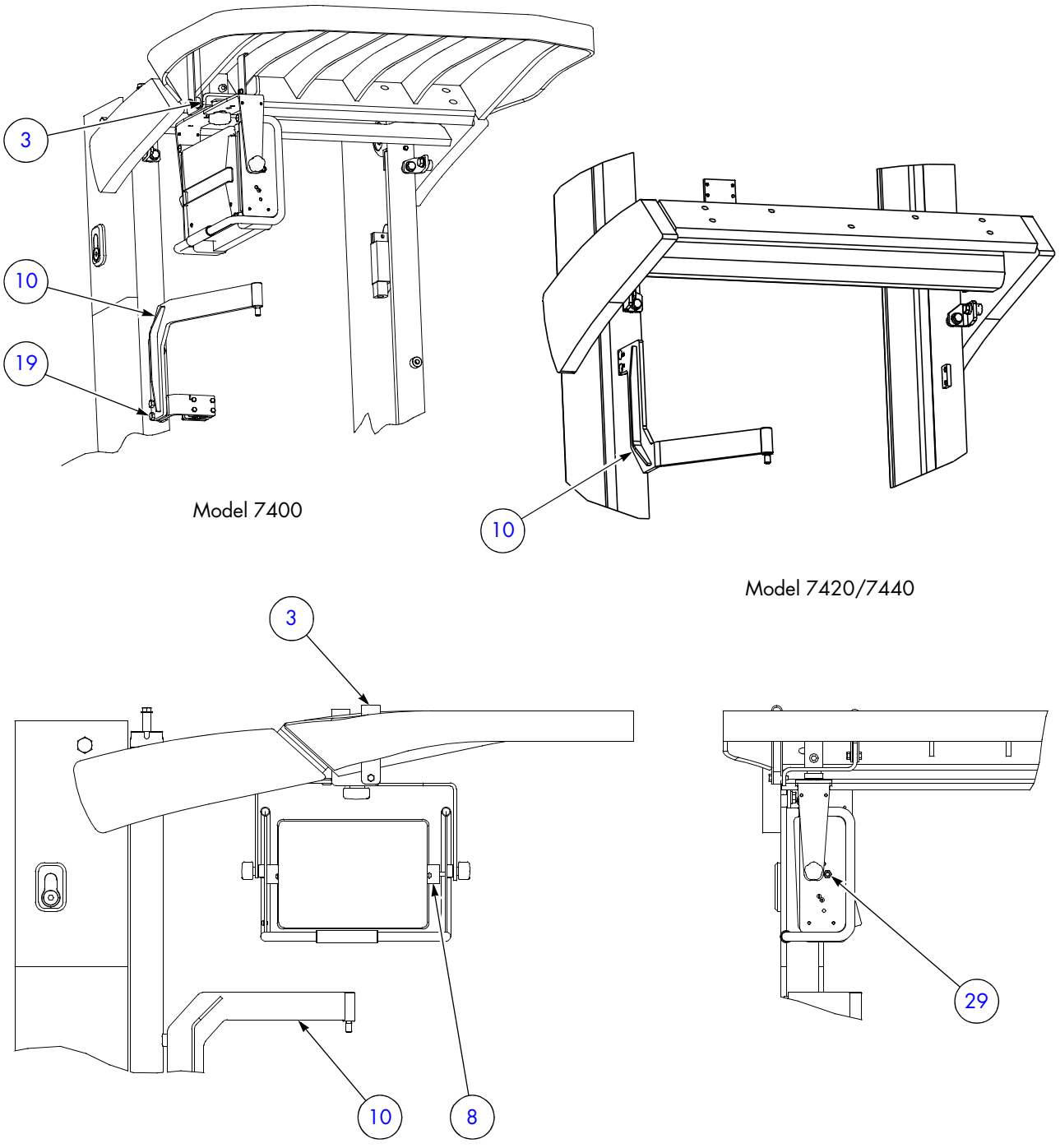
Figure 8-13a: R.F. Installation



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R.F. Installation

Figure 8-13b: R.F. Installation

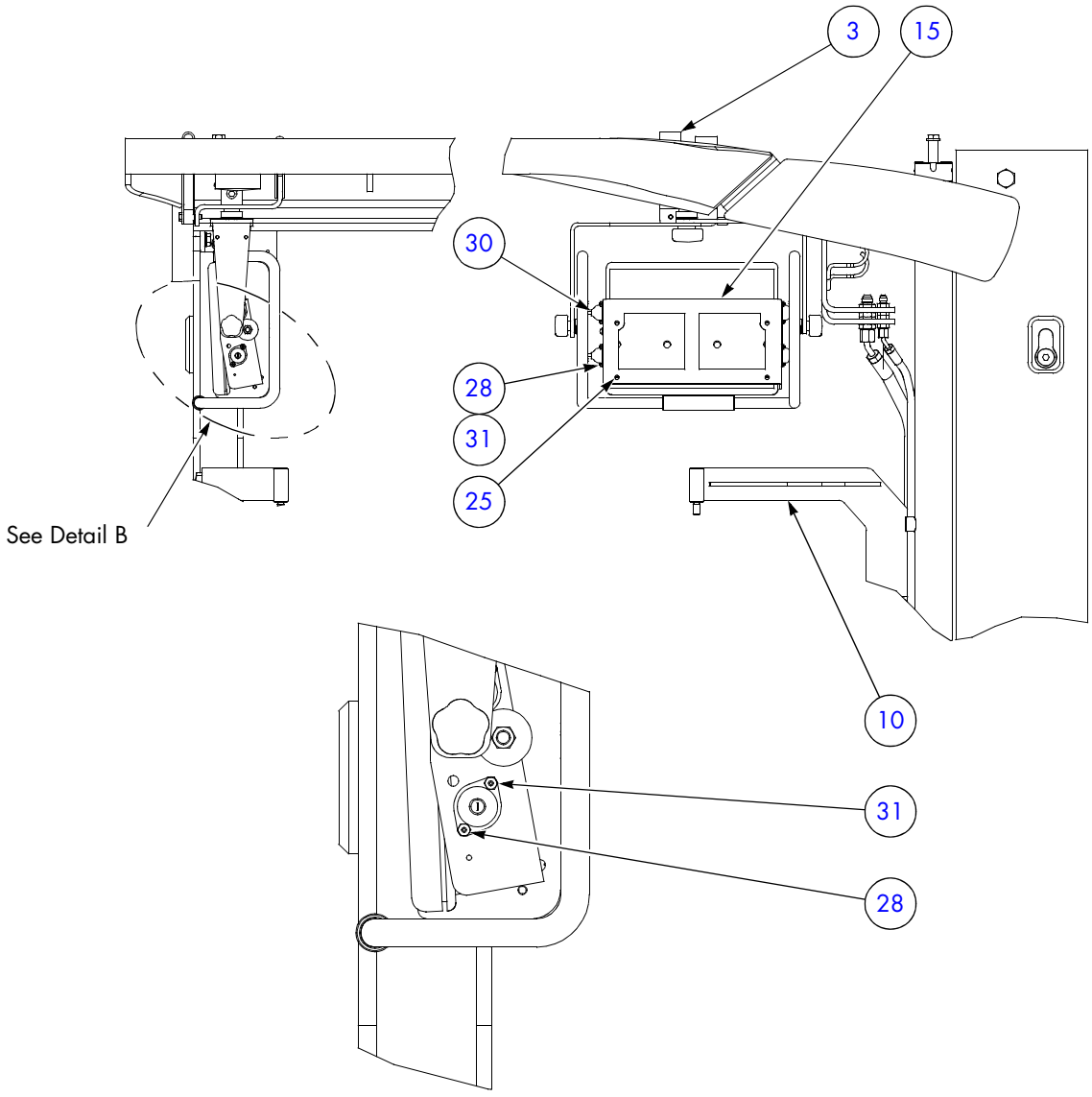


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R.F. Installation

Figure 8-13c: R.F. Installation



DETAIL B

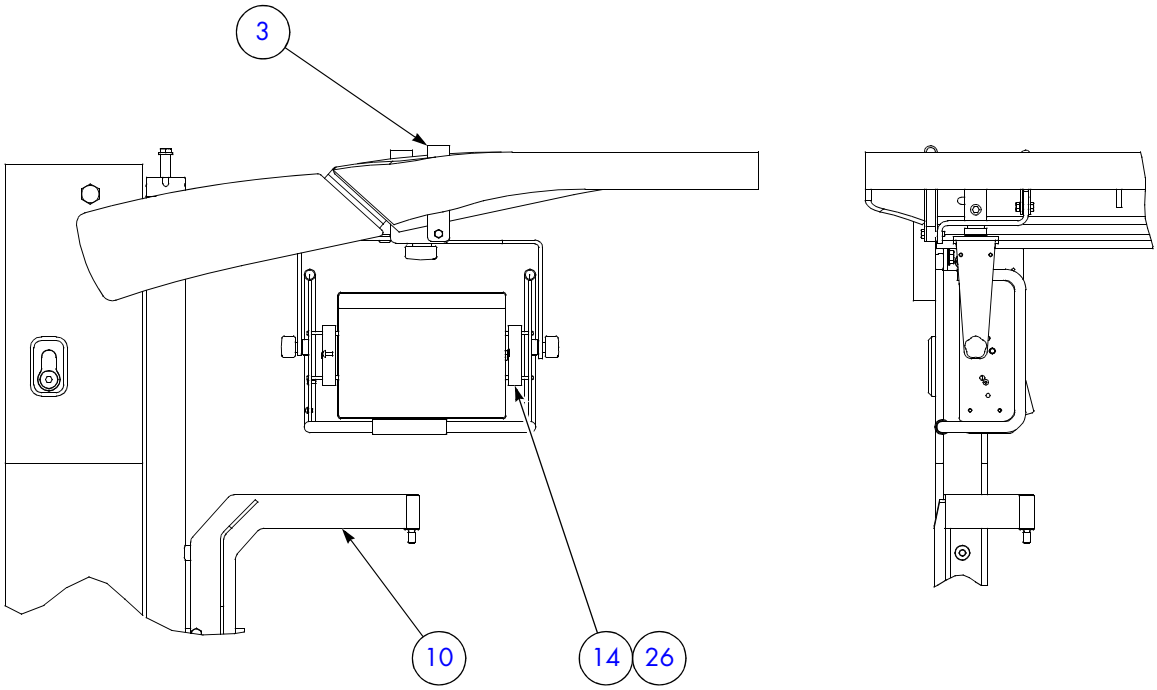
INTERMEC TERMINAL MOUNTING

R1020687_A3 SHT 3 OF 4

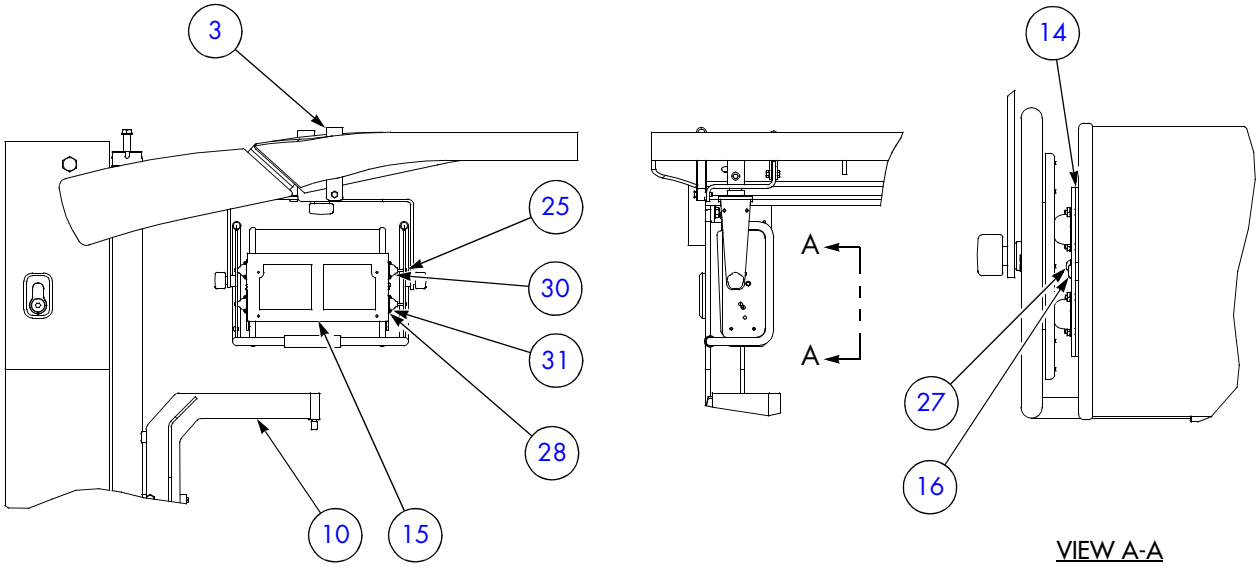
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R.F. Installation

Figure 8-13d: R.F. Installation



TEKLOGIX TERMINAL MOUNTING



VIEW A-A

SYMBOL TERMINAL MOUNTING

R1020687_A4 R1020687_A5 SHT 4 OF 4

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List 8-13: R.F. Installation

FIGURE 8-13 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1016145	Bar	
2	1	1016163	Bar	
3	1	1016181	Bracket Weldment	
4	2	1016223	Bracket	
5	1	1016249	Bracket Weldment	
6	1	1016250	Bracket Weldment	
7	2	1016789	Bar, Spacer	A
8	2	1016995	Mount, Isolation	B
9	1	1018465	Boss	
10	1	1020050	Bracket Weldment, Lower (Model 7400 only)	F
	1	1062689	Bracket Weldment, Lower (Model 7420 and 7440 only)	F
11	1	1016222/001	Bracket Weldment, Upper	
12	1	1016546/001	Knob	
13	2	1016546/002	Knob	
14	2	828-006-117	Shim	D
15	1	828-006-907	Bracket, R.F. Terminal	C, E
16	4	828-009-468	Spacer, R.F. Terminal Mounting	E
17	1	5-001-009	Screw	
18	1	5-001-010	Screw	
19	2	5-001-018	Screw	F
20	1	5-002-016	Screw	
21	4	5-003-007	Screw	A
22	1	5-015-005	Nut	
23	1	5-018-006	Washer, Flat	
24	1	600-209	Grommet, Rubber	
25	12	701-105	Screw	C, E
26	4	701-132	Screw	A
27	2	701-182	Screw	
28	8	750-001	Nut	C
29	2	750-020	Nut	
30	4	776-232	Mount, Shock	C, E
31	8	813-512	Stud	C, E

A= LXE
B= Telxon
C= Intermec
D= Teklogix
E= Symbol
F= Lower Mounting Only

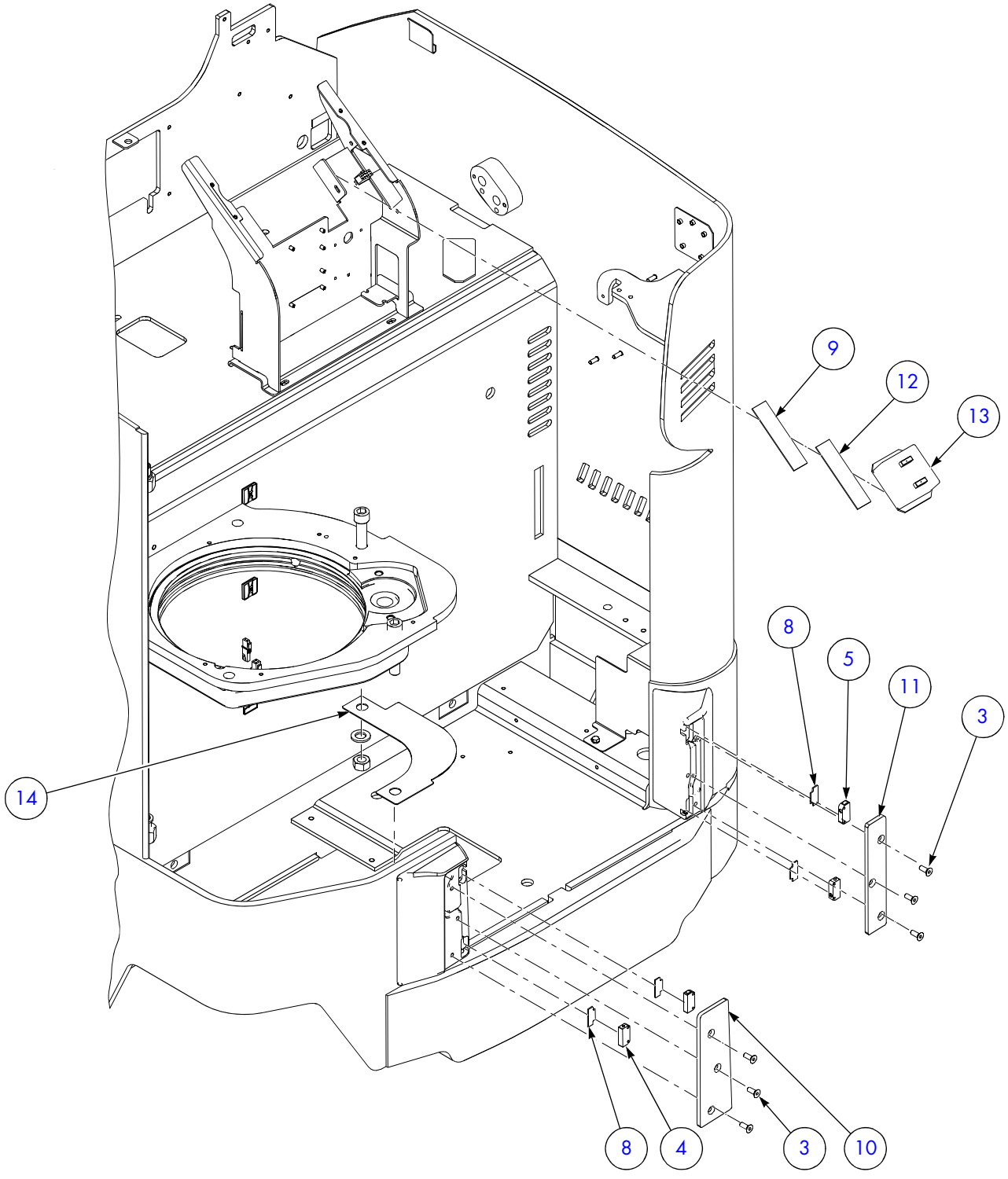
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Operator Compartment Sensor System (OCSS), Fore-Aft Stance

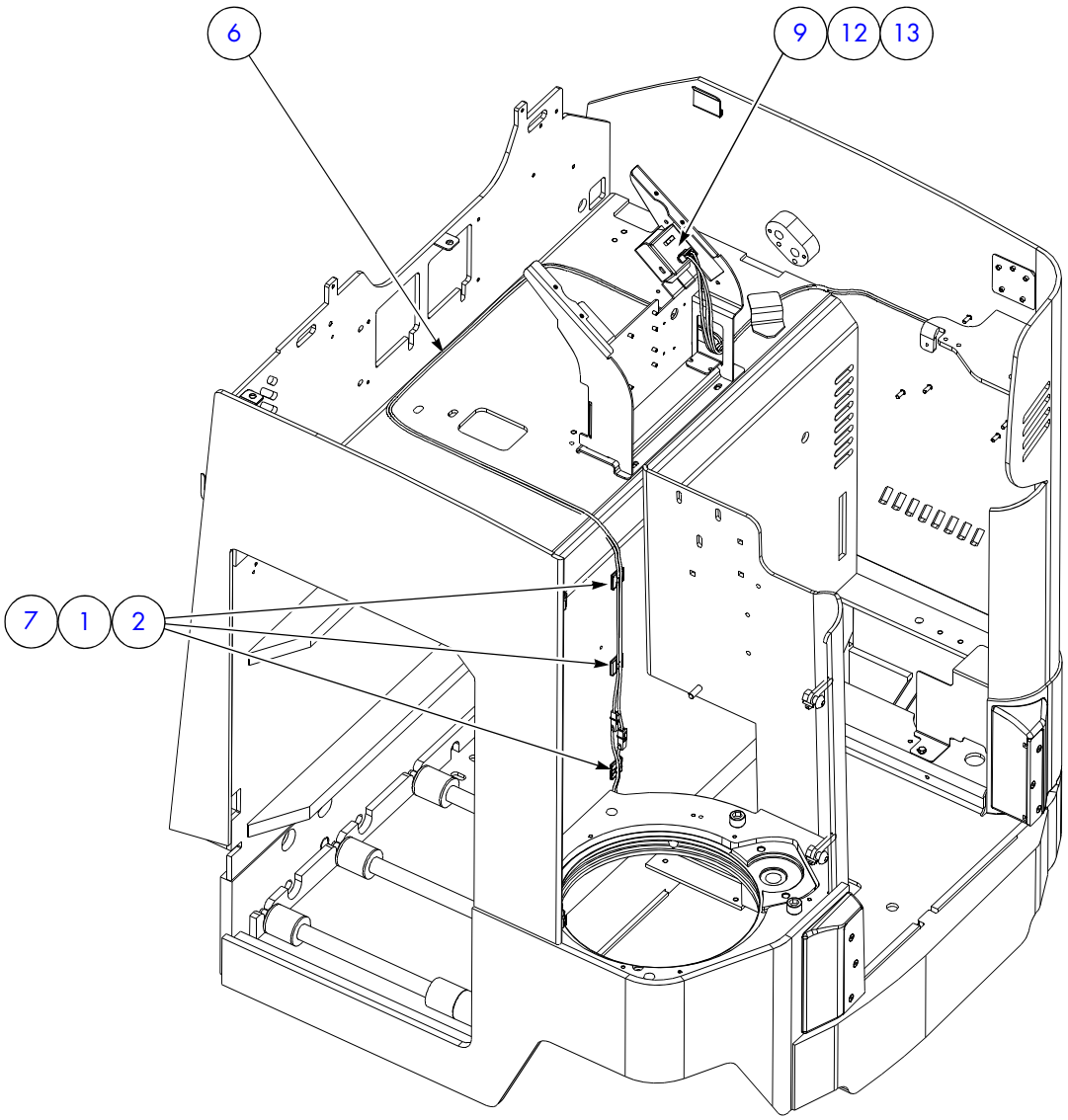
Figure 8-14a: Operator Compartment Sensor System (OCSS), Fore-Aft Stance



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Operator Compartment Sensor System (OCSS), Fore-Aft Stance

Figure 8-14b: Operator Compartment Sensor System (OCSS), Fore-Aft Stance



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List 8-14: Operator Compartment Sensor System (OCSS), Fore-Aft Stance

FIGURE 8-14 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-029	Cable Tie	
2	AR	611-044	Anchor, Cable Tie, Adhesive-Backed	
3	6	5-004-014	Screw	
4	1	1053471/001	Harness, Sensor, OCSS, Fore-Aft Stance	
5	1	1053471/002	Harness, Sensor, OCSS, Fore-Aft Stance	
6	1	1053362/002	Harness, Sensor, OCSS, Fore-Aft Stance	
7	AR	611-028	Cable Tie	
8	4	1037771	Gasket, Sensor	
9	AR	811-861/006	Fastener, Reclosable, Mushroom Cap	
10	1	1041601	Plate, Cover	
11	1	1041602	Plate, Cover	
12	AR	811-861/016	Fastener, Reclosable, Mushroom Cap	
13	1	1031429/003	Circuit Card, CAN I/O Expander Module, OCSS	R
14	1	1043472	Plate, Cover	

R= Recommended Spare

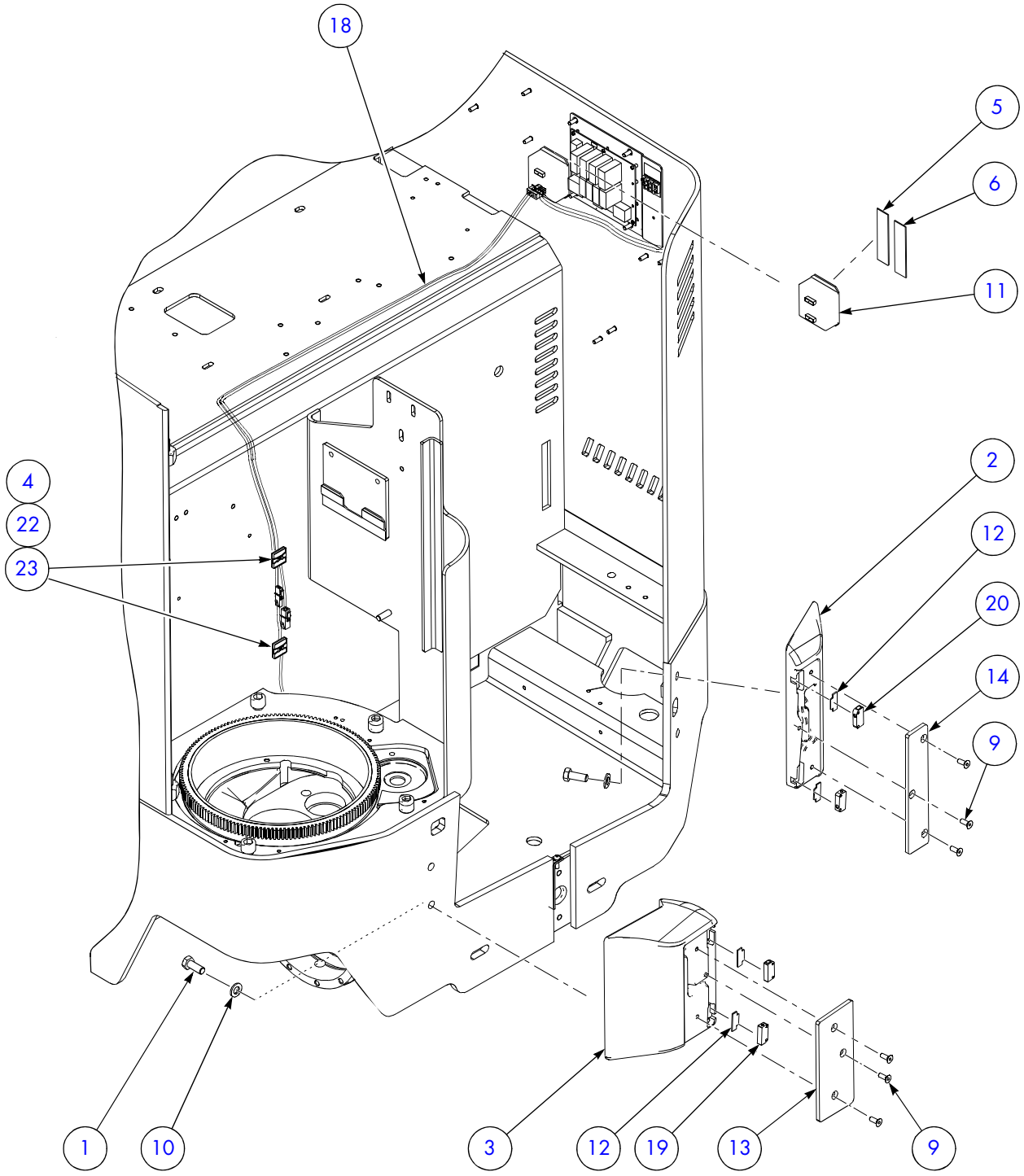
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Operator Compartment Sensor System (OCSS), Side Stance

Figure 8-15a: Operator Compartment Sensor System (OCSS), Side Stance

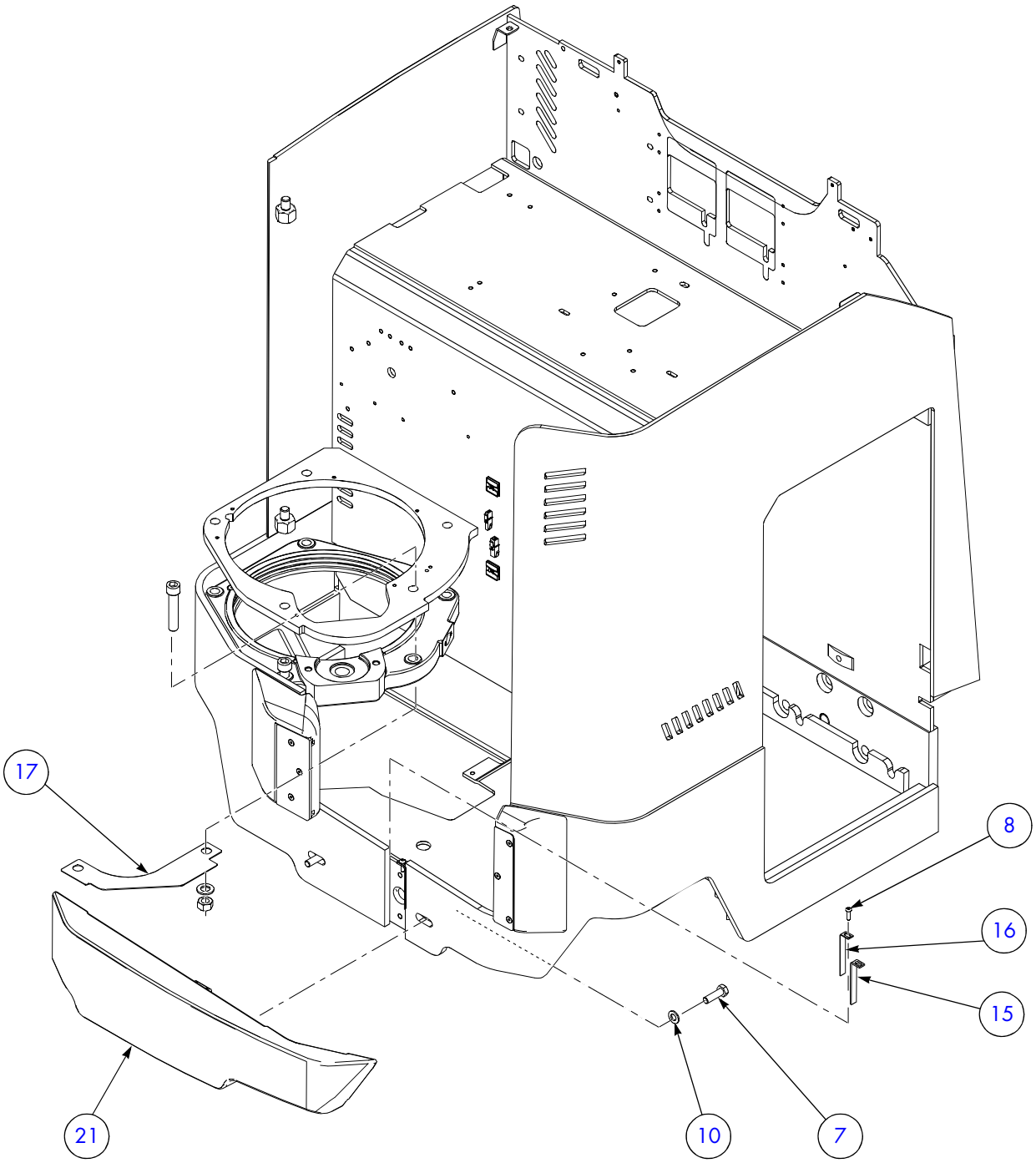


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Operator Compartment Sensor System (OCSS), Side Stance

Figure 8-15b: Operator Compartment Sensor System (OCSS), Side Stance



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List 8-15: Operator Compartment Sensor System (OCSS), Side Stance

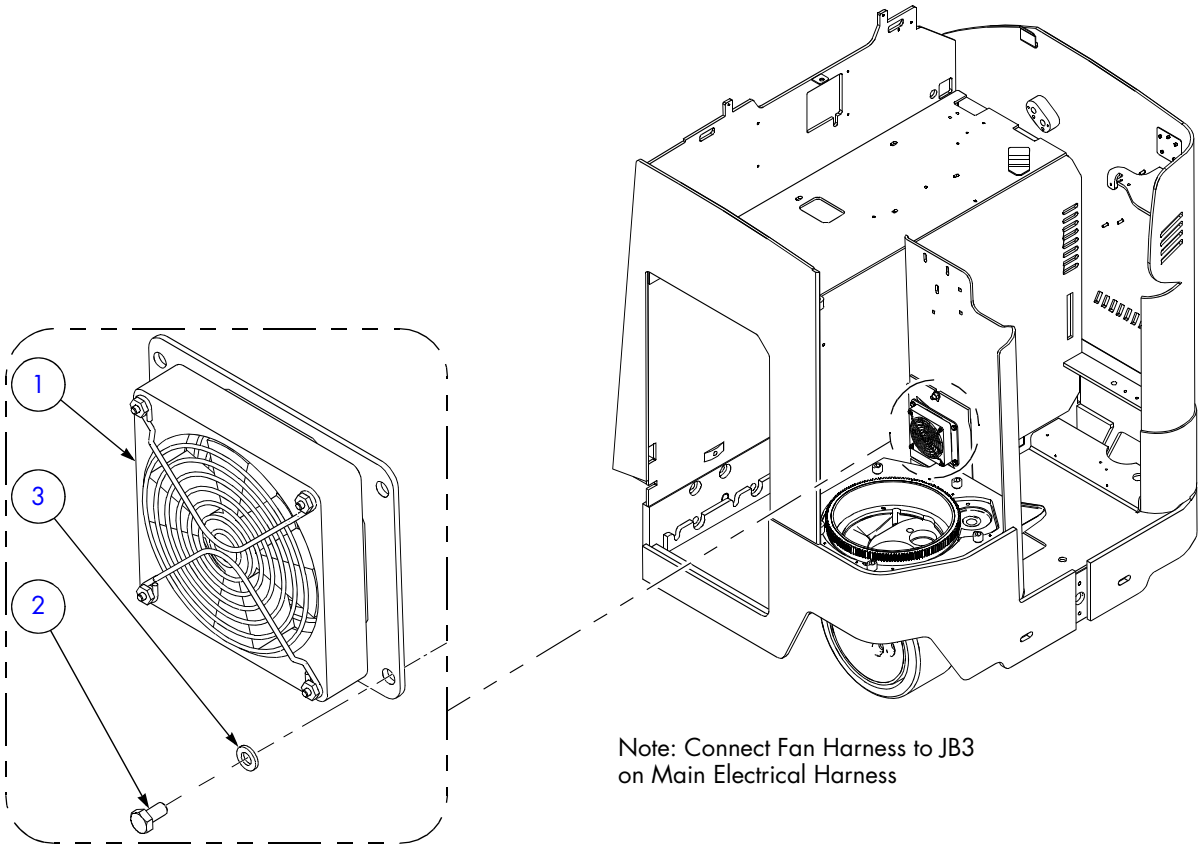
FIGURE 8-15 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	4	5-001-024	Screw	
2	1	1056372	Housing, OCSS Sensor, Right-Hand	
3	1	1056373	Housing, OCSS Sensor, Left-Hand	
4	AR	611-044	Anchor, Cable Tie, Adhesive-Backed	
5	AR	811-861/006	Fastener, Reclosable, Mushroom Cap	
6	AR	811-861/016	Fastener, Reclosable, Mushroom Cap	
7	2	5-001-025	Screw	
8	2	5-003-013	Screw	
9	6	5-004-014	Screw	
10	6	5-018-008	Washer, Flat	
11	1	1031429/003	Circuit Card, CAN I/O Expander Module, OCSS	R
12	4	1037771	Gasket, Sensor	
13	1	1048702	Plate, Cover	
14	1	1048703	Plate, Cover	
15	AR	1048961	Shim, Spacer	
16	AR	1048962	Shim, Spacer	
17	1	1049088	Plate, Cover	
18	1	1053362/001	Harness, Sensor, OCSS, Side Stance	
19	1	1053471/003	Harness, Sensor, OCSS, Side Stance	
20	1	1053471/004	Harness, Sensor, OCSS, Side Stance	
21	1	1053563	Housing, Machined	
22	AR	611-029	Cable Tie	
23	AR	611-028	Cable Tie	

R= Recommended Spare

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High Performance Air Flow (DC Lift)

Figure 8-16: High Performance Air Flow (DC Lift)



1018627_A1 1018627_A2

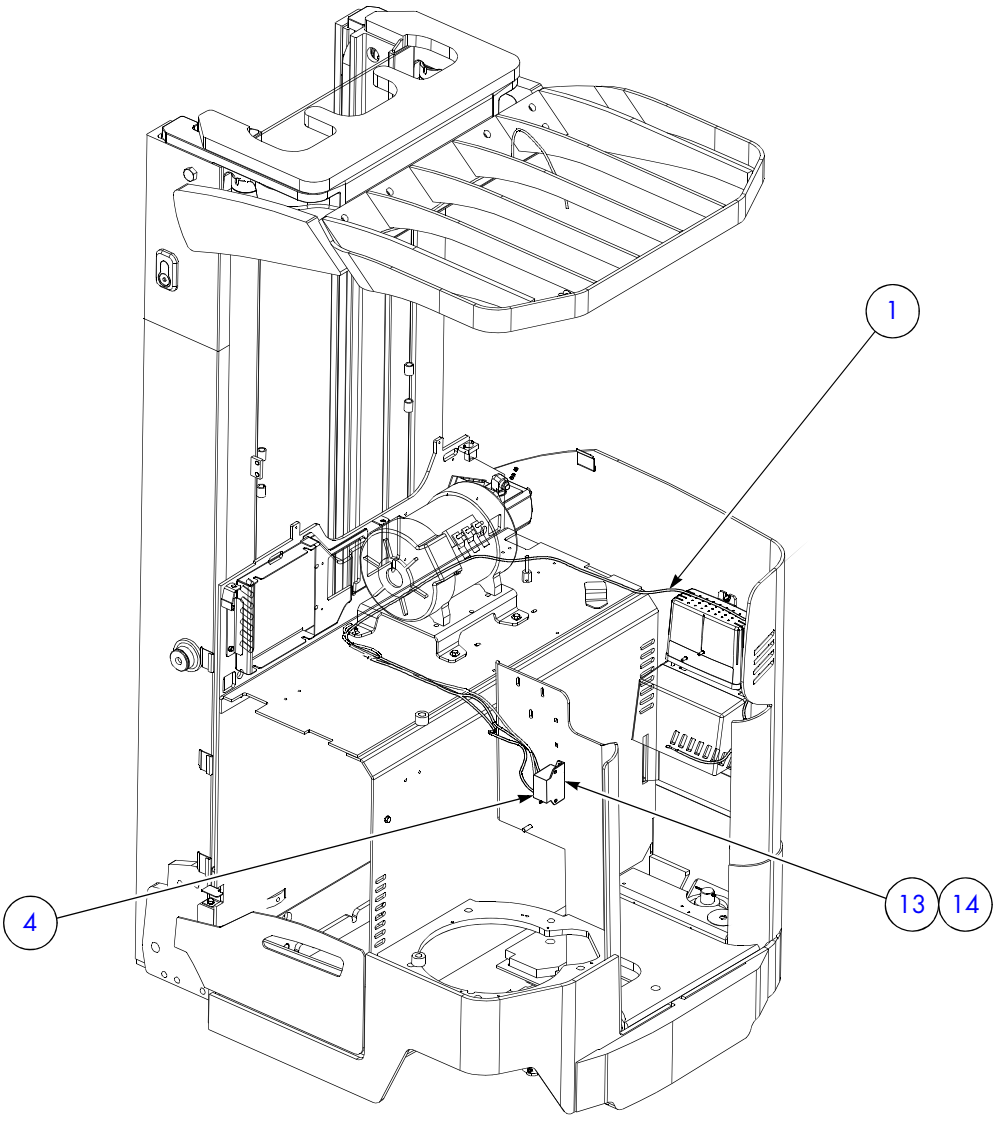
List 8-16: High Performance Air Flow (DC Lift)

FIGURE 8-16 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1010845	Fan Assembly, Drive Motor Compartment (See Figure 5-29.)	
2	4	5-001-056	Screw	
3	4	5-018-005	Washer, Flat	

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Travel Light and Alarm Installation

Figure 8-17a: Travel Light and Alarm Installation



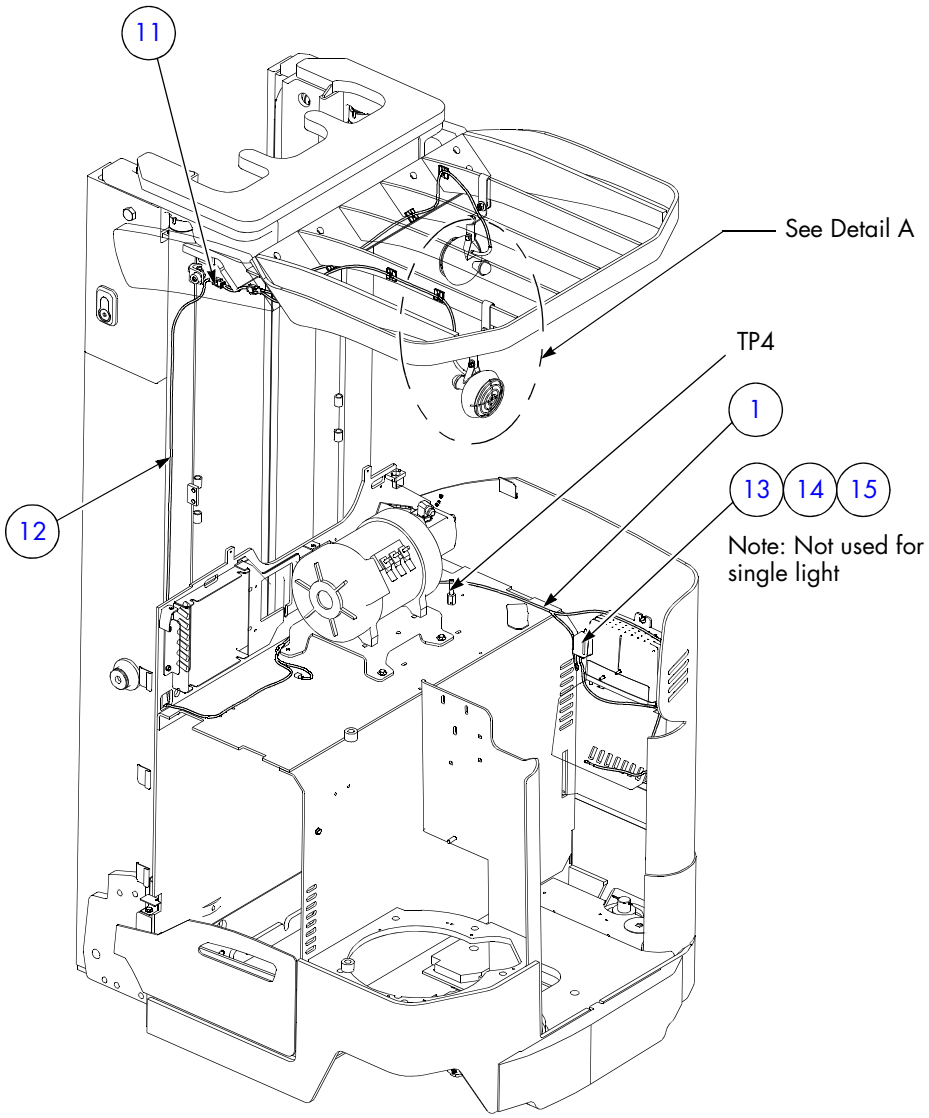
TRAVEL ALARM ONLY

I1037638_C1 SHT 1 OF 4

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Travel Light and Alarm Installation

Figure 8-17b: Travel Light and Alarm Installation



TRAVEL LIGHT(S) ONLY

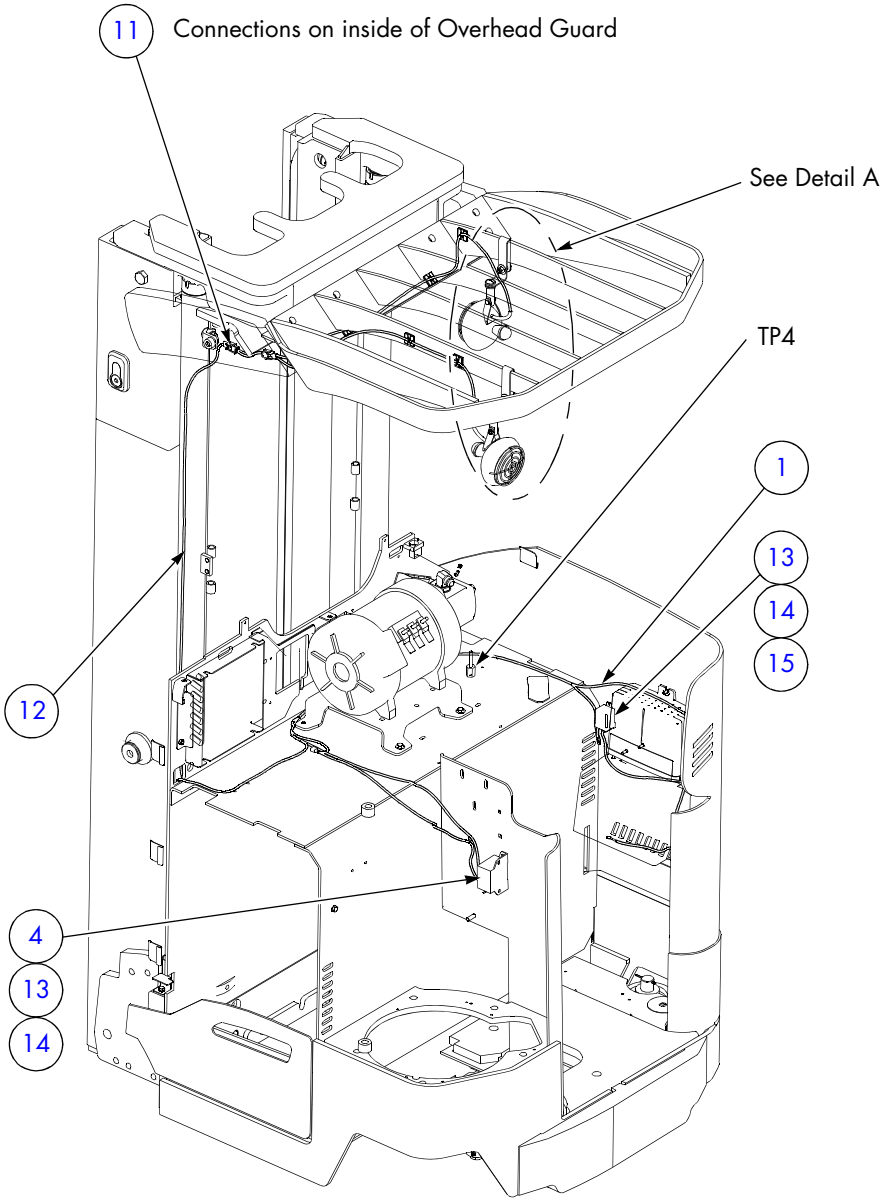
(Both Forward and Reverse Lights Shown)

1037638_C6 SHT 2 OF 4

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Travel Light and Alarm Installation

Figure 8-17c: Travel Light and Alarm Installation



TRAVEL ALARM AND LIGHT(S)

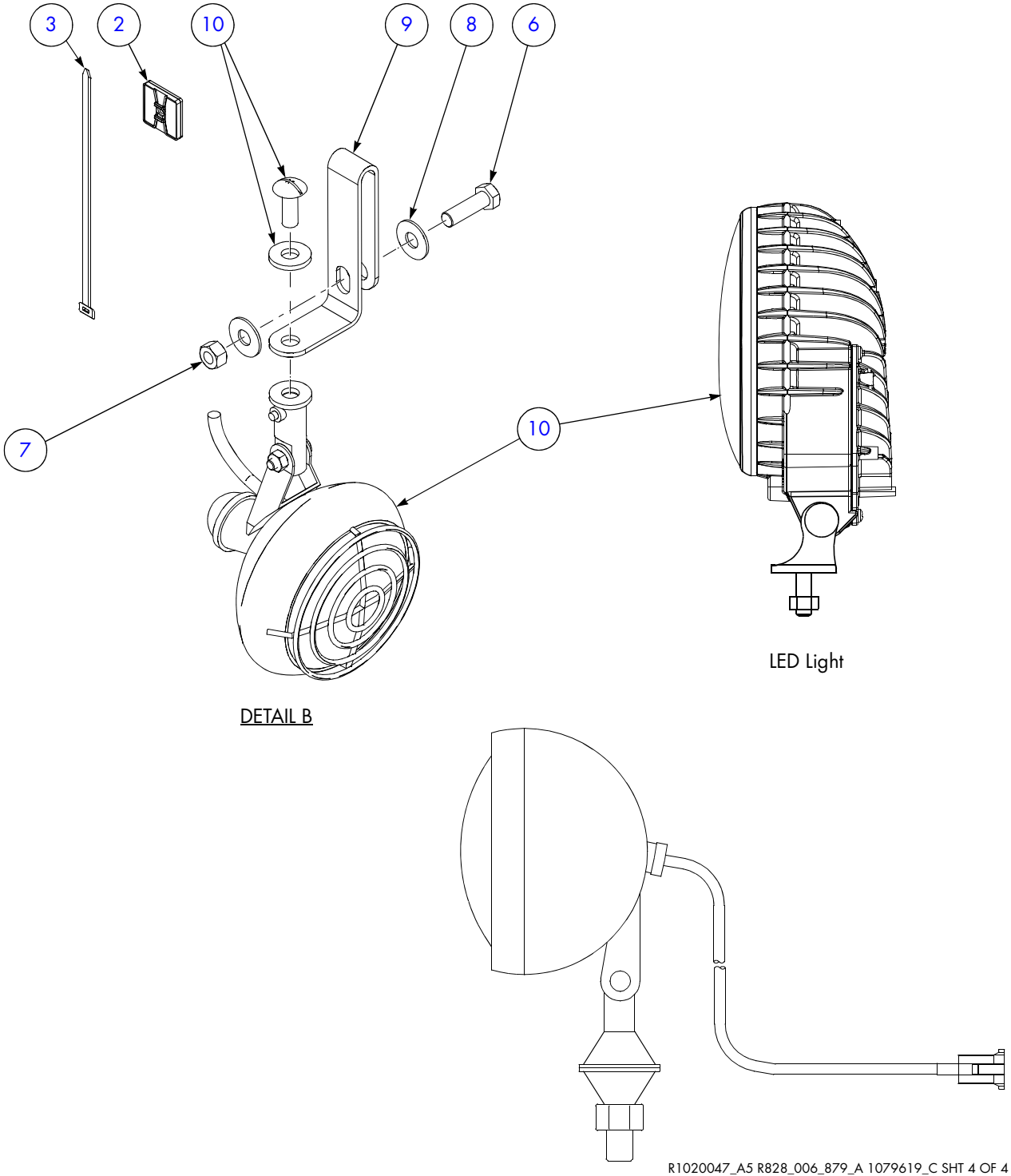
(Both Forward and Reverse Lights Shown)

1037638_C7 SHT 3 OF 4

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Travel Light and Alarm Installation

Figure 8-17d: Travel Light and Alarm Installation



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List 8-17: Travel Light and Alarm Installation

FIGURE 8-17 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1019639/001	Harness, Travel Alarm	
	1	1019639/002	Harness, Reverse Travel Light	
	1	1019639/003	Harness, Forward Travel Light and Alarm	
	1	1019639/004	Harness, Travel Light (LED) and Alarm	A
	1	1019639/005	Harness, Travel Light, LED	A
2	1	611-044	Anchor, Cable Tie, Adhesive-Backed	
3	1	611-029	Cable Tie	
4	1	590-628/001	Alarm, Travel	
6	1	710-134	Screw	
7	1	750-020	Nut	
8	2	771-123	Washer, Flat	
9	1	828-003-715	Bracket, Mounting, Fan/Light	
10	AR	1079619/001	Travel Light Assembly (LED)	A
	1	828-006-879/102	Travel Light Assembly (includes:)	
	1	1-012-069/04	Connector, Electrical	
	2	1-012-072	Socket, Contact	
	1	591-452	Light, Travel (includes:)	
	1	591-452/01	Light, Sealed Beam, 36V	
11	1	1101020/001	Harness, Travel Light (PW3 to JW1 and JW3)	
	1	1101020/002	Harness, Travel Light (PW3 to JW1 and JW3)	A
12	1	1101021/001	Harness, Travel Light	
	1	1101021/002	Harness, Travel Light	A
13	1	811-861/006	Fastener, Reclosable, Mushroom Cap	
14	1	811-861/016	Fastener, Reclosable, Mushroom Cap	
15	1	1-100-013	Relay, Travel Alarm/Light(s)	

A= LED Light

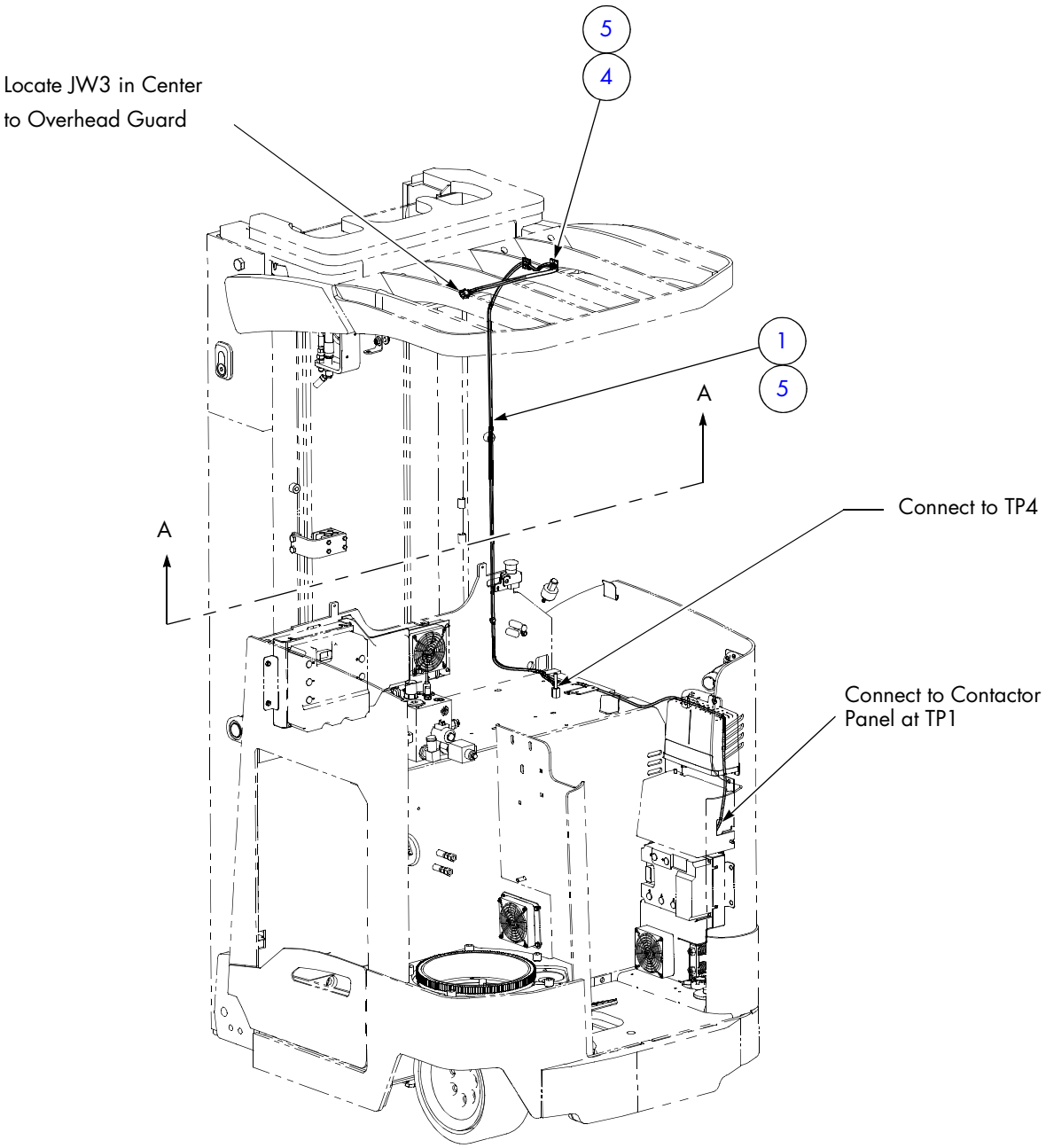
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RAYMOND

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Working Light and Operator Cooling Fan Harness Installation

Figure 8-18a: Working Light and Operator Cooling Fan Harness Installation

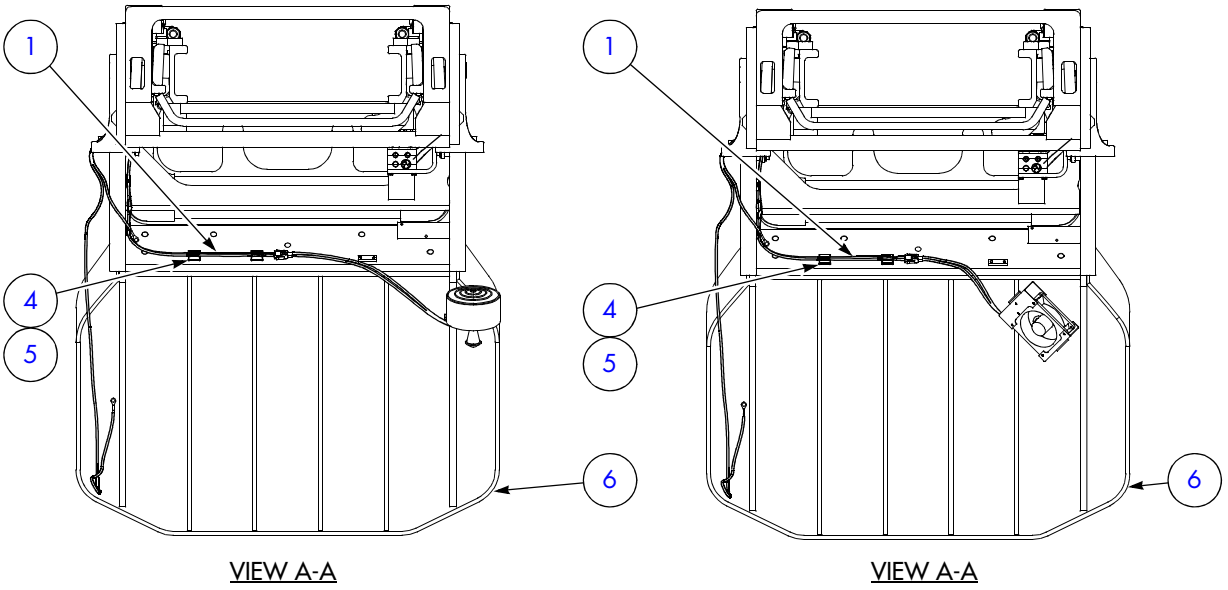


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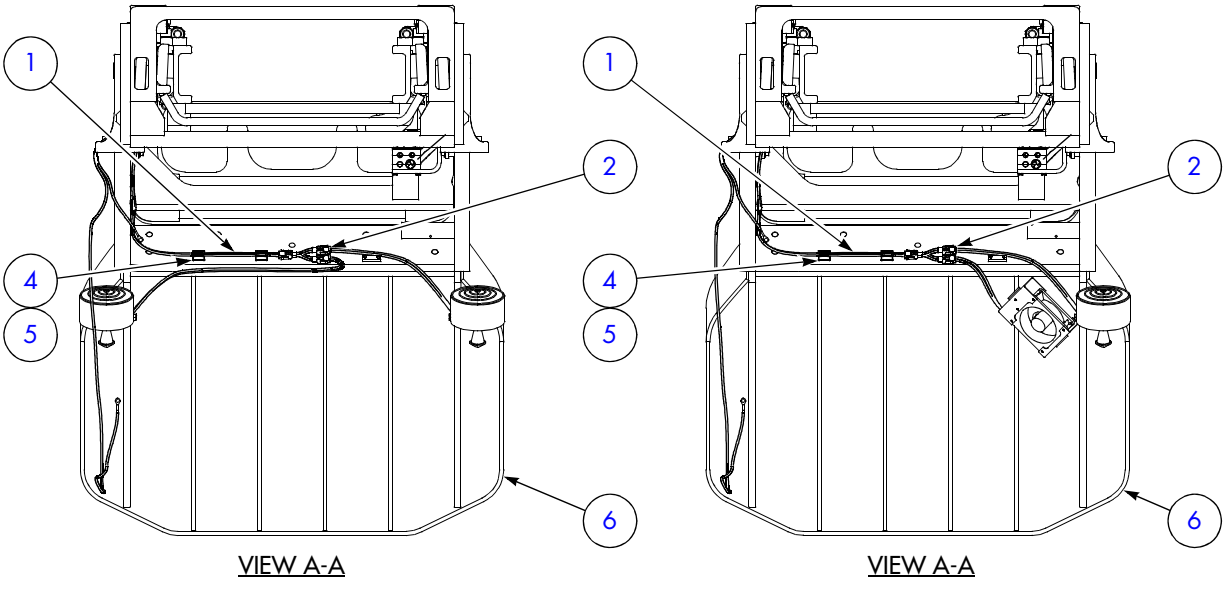
Working Light and Operator Cooling Fan Harness Installation

Figure 8-18b: Working Light and Operator Cooling Fan Harness Installation



Single Light Only

Fan Only



Dual Light

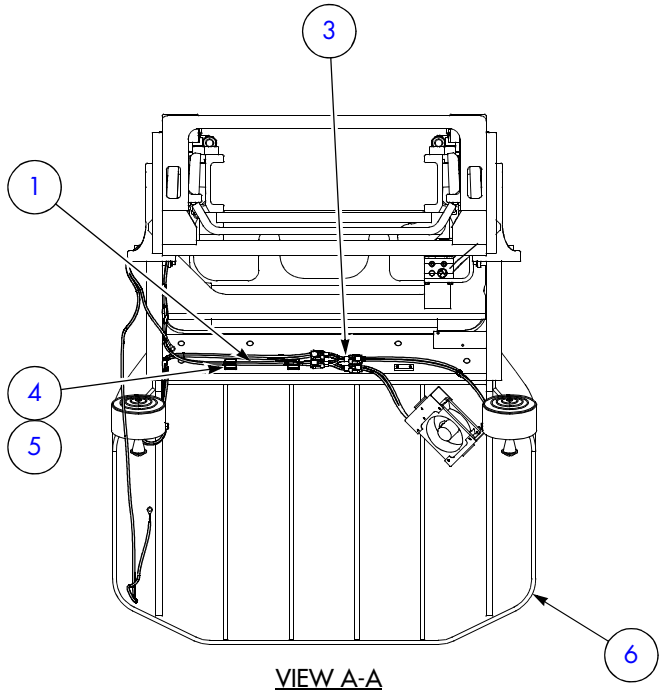
Single Light and Fan

R1019525_A2 R1019525_A3 R1019525_A4 R1019525_A5 SHT 2 OF 3

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Working Light and Operator Cooling Fan Harness Installation

Figure 8-18c: Working Light and Operator Cooling Fan Harness Installation



Dual Light and Fan

R1019525_A6 SHT 3 OF 3

List 8-18: Working Light and Operator Cooling Fan Harness Installation

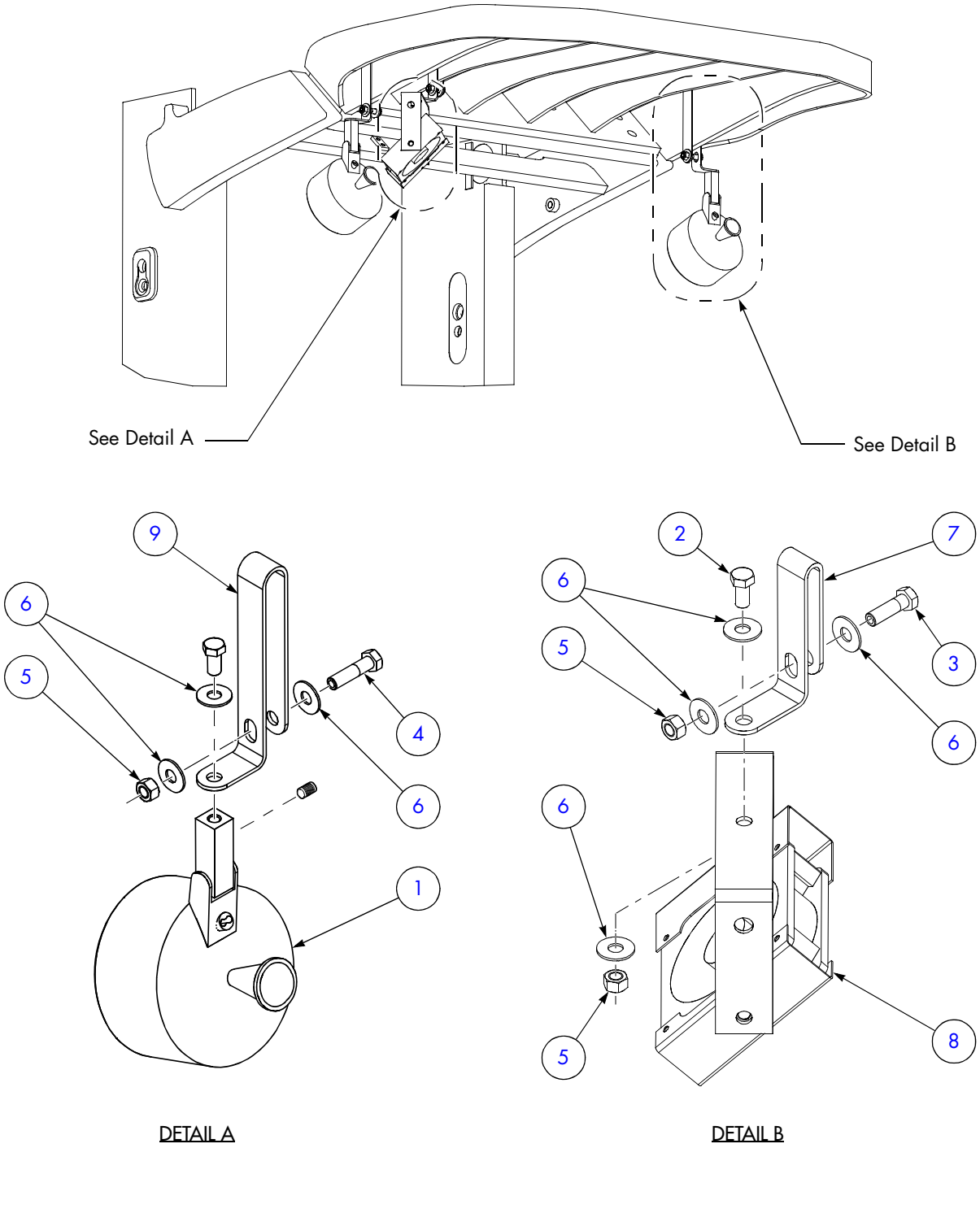
FIGURE 8-18 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1018833/001	Harness, Operator Fan/Working Light (all) (includes:)	
	1	590-507	Fuse (FU9), 10 amp	R
2	1	1018832/001	Harness, Operator Fan/Working Lights (any 2 devices)	
3	1	1018834/001	Harness, Operator Fan and Working Lights, Dual	
4	4	611-044	Anchor, Cable Tie, Adhesive-Backed	
5	AR	611-029	Cable Tie	
6	1	Ref.	Working Light and Operator Cooling Fan Installation (See Figure 8-19.)	

R= Recommended Spare

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Working Light and Operator Cooling Fan Installation

Figure 8-19: Working Light and Operator Cooling Fan Installation



R1015403_B1 1019587_C R1015403_B3

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List 8-19: Working Light and Operator Cooling Fan Installation

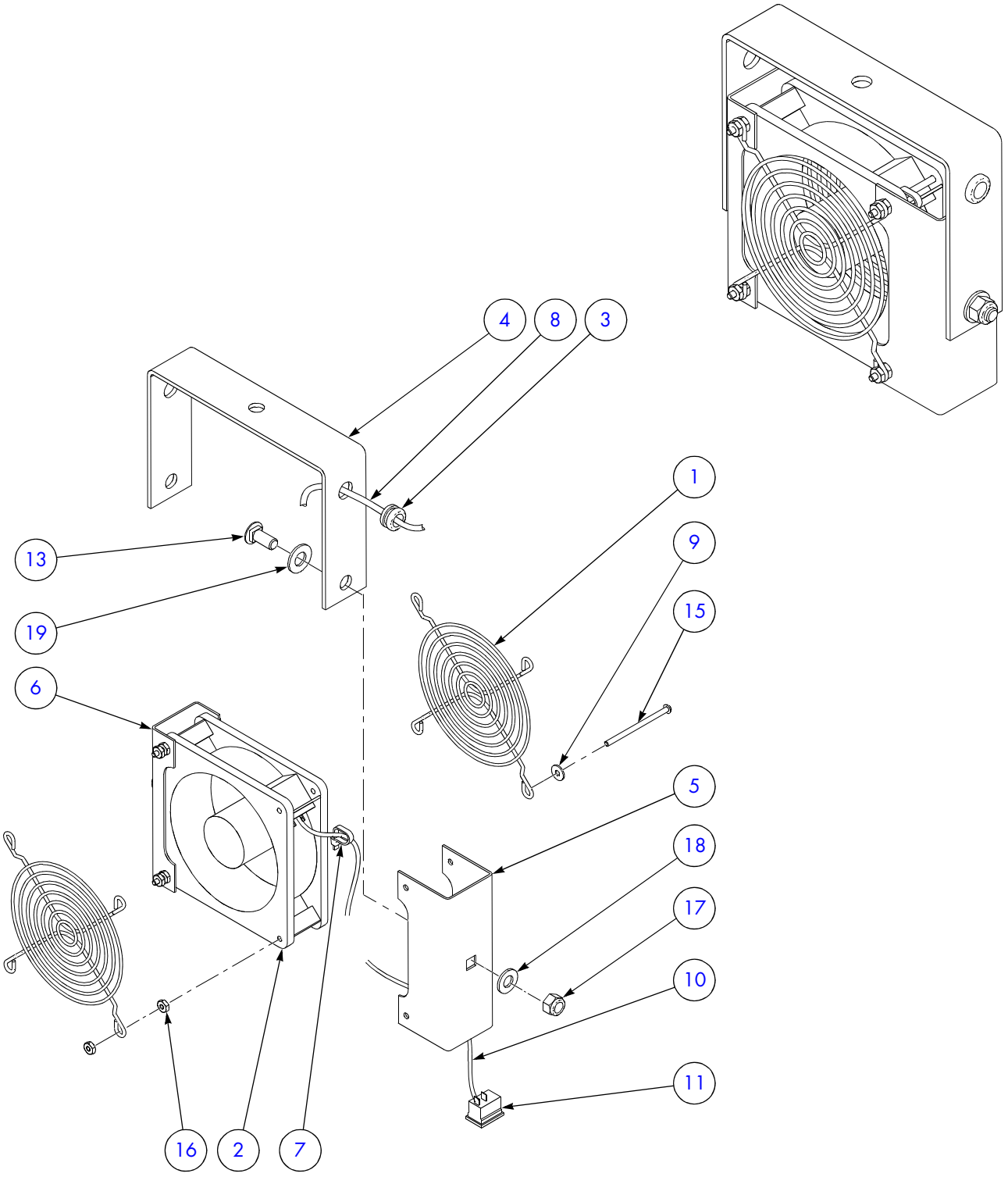
FIGURE 8-19 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1019587/002	Light Assembly, Working (includes:)	
	1	591-575/001	Light, Working, 36V (includes:)	
	1	591-452/01	Light, Sealed Beam, 36V	
	1	591-575/01	Switch, Toggle, Working Light	R
	1	1-012-070/04	Connector, Electrical	
	2	1-012-512/007	Pin, Contact	
	4	611-013	Tubing, Shrinkable	
	1	1-012-500/002	Seal, Connector	R
	1	724-319	Screw, Set	
2	1	710-127	Screw	
3	1	710-134	Screw	
4	2	710-139	Screw	
5	4	750-020	Nut	
6	8	771-123	Washer, Flat	
7	1	828-003-715	Bracket, Mounting, Fan/Light	
8	1	1052119/005	Fan Assembly, Operator (See Figure 8-20.)	
9	2	1015145	Bracket, Mounting, Light	

Note: Double Quantities for Dual Lights
R= Recommended Spare

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Fan Assembly, Operator

Figure 8-20: Fan Assembly, Operator



1052119_001 1052119_A

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List 8-20: Fan Assembly, Operator

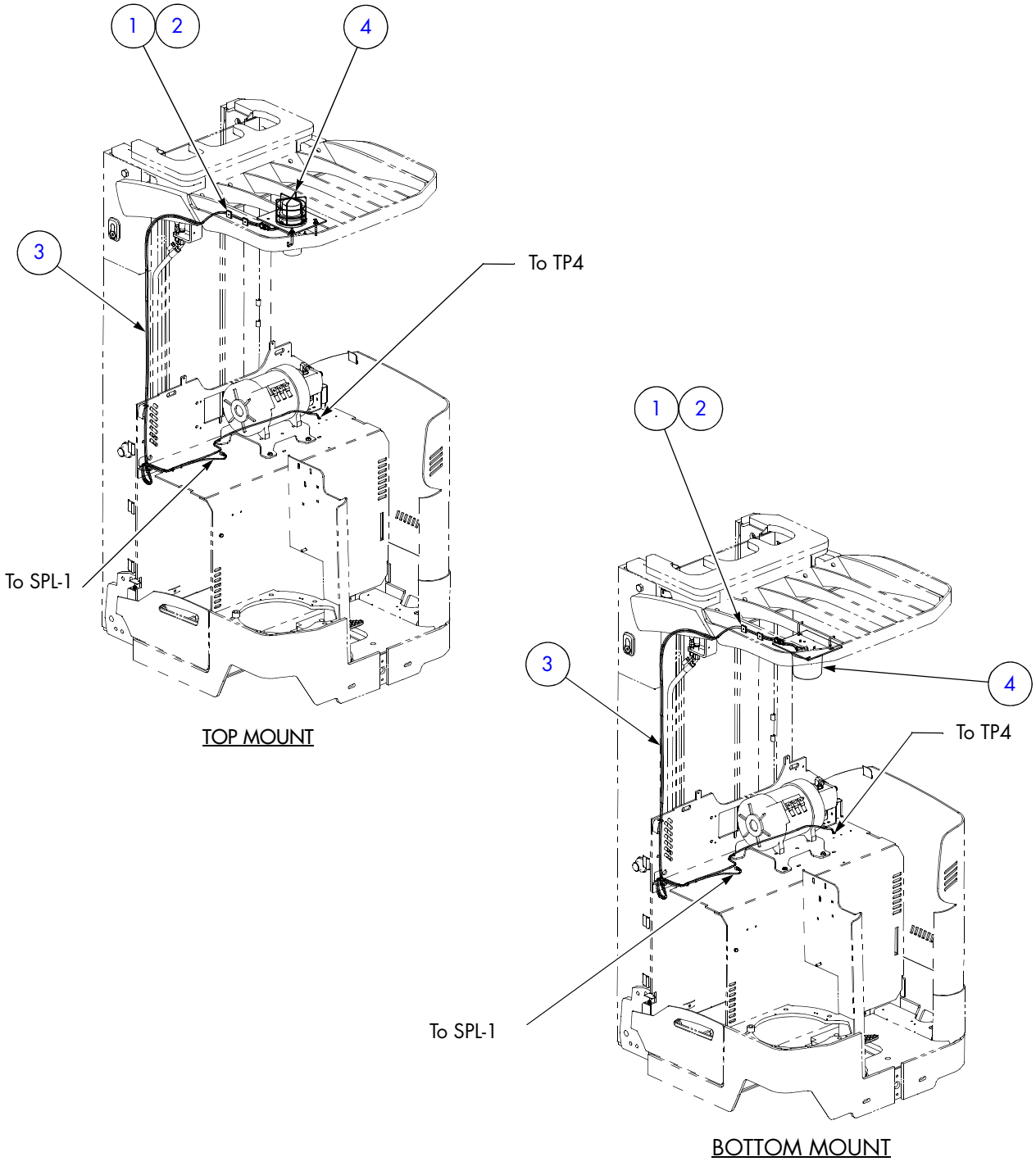
FIGURE 8-20 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	2	590-909	Guard, Fan	
2	1	590-916/005	Fan, Operator	
3	1	600-229/001	Grommet, Rubber	
4	1	100-027-110	Bracket, Operator Fan, Mounting	
5	1	1052094/001	Bracket, Operator Fan	
6	1	1052095/001	Bracket, Operator Fan	
7	1	611-029	Cable Tie	
8	1	1018830/001	Cable Assembly, Operator Fan (PW3 to S22-1 and FA-)	
9	4	771-107	Washer, Flat	
10	1	1018831	Wire Assembly, Operator Fan (S22-1A to FA+)	
11	1	1-150-343/001	Switch, Rocker, Operator Fan	R
13	2	740-139	Screw	
15	4	701-370	Screw	
16	8	750-001	Nut	
17	2	760-013	Nut, Lock	
18	2	771-019	Washer, Flat	
19	2	771-023	Washer, Flat	

R= Recommended Spare

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Warning Light Harness Installation

Figure 8-21: Warning Light Harness Installation



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List 8-21: Warning Light Harness Installation

FIGURE 8-21 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	AR	611-029	Cable Tie	
2	2	611-044	Anchor, Cable Tie, Adhesive-Backed	
3	1	1019669/001	Harness, Warning Light (JW5 to TP4 and SPL1) (includes:)	
	1	590-507	Fuse (FU11), 10 amp	R
4	1	Ref.	Strobe Light Installation (See Figure 8-22a.)	
	1	Ref.	Flashing Light Installation (See Figure 8-23a.)	

R= Recommended Spare

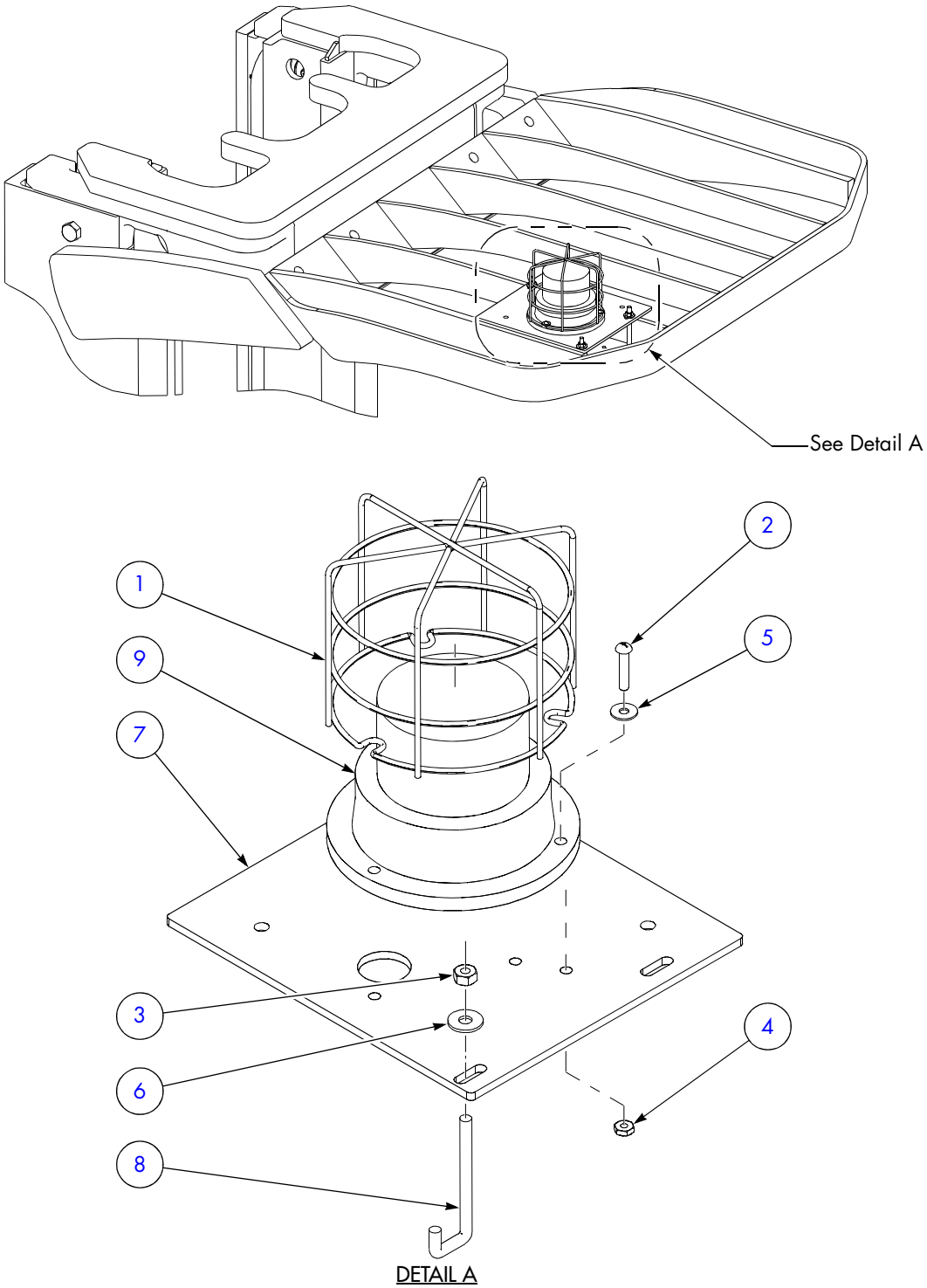
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Strobe Light Installation

Figure 8-22a: Strobe Light Installation

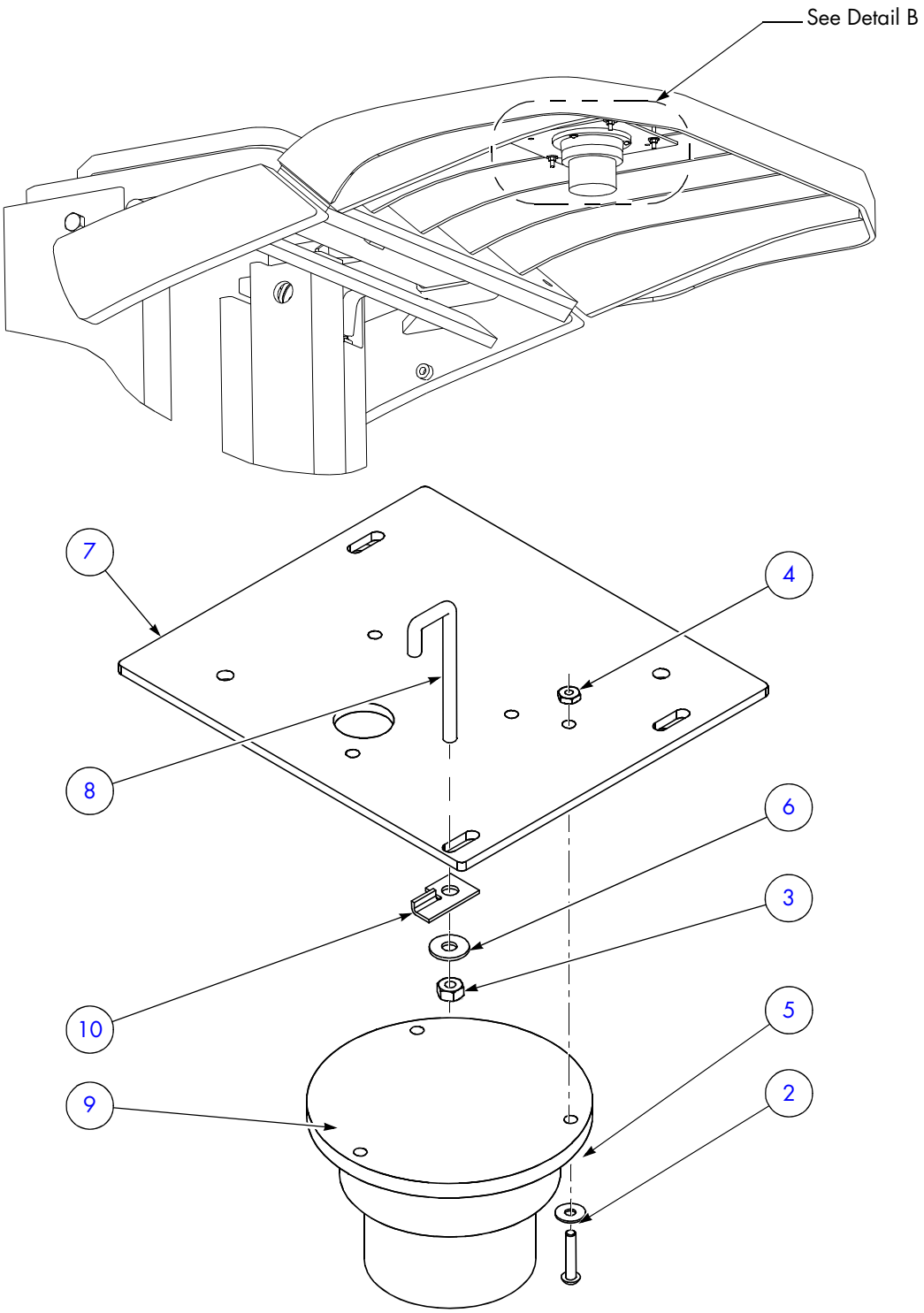


R1015414_A1 R1015414_A2 SHT 1 OF 2

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Strobe Light Installation

Figure 8-22b: Strobe Light Installation



R1015414_A3 1015414_D1 SHT 2 OF 2

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List 8-22: Strobe Light Installation

FIGURE 8-22 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	591-582	Guard, Strobe Light	A
2	1	701-128	Screw	
3	4	750-006	Nut	
4	3	750-008	Nut	
5	3	771-112	Washer, Flat	
6	3	771-116	Washer, Flat	
7	1	1017533	Plate, Mounting	
8	3	828-005-503	Hook, Square	
9	1	Ref.	Light, Warning, Strobe Lamp Assembly (See Figure 8-24.)	
10	1	1020350	Bracket, Warning Light, Mounting	B

A= Top of Overhead Guard
B= Bottom of Overhead Guard

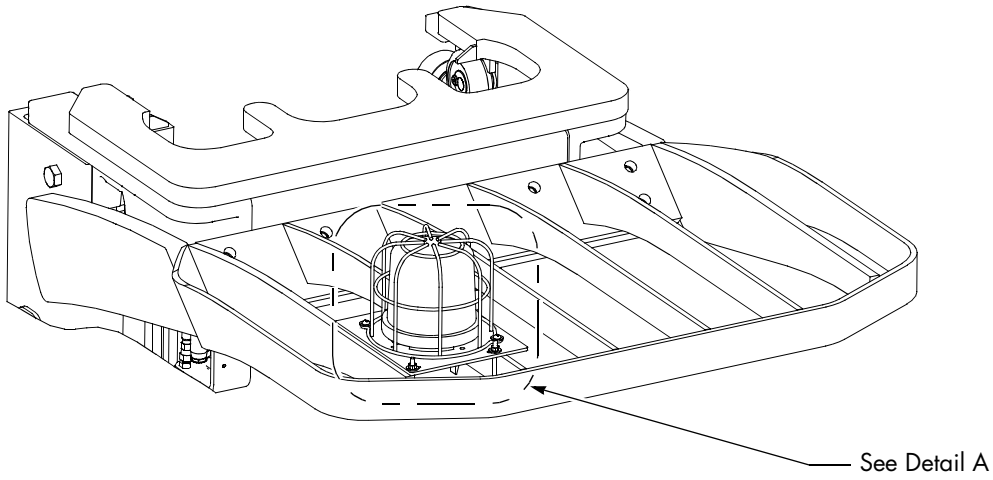
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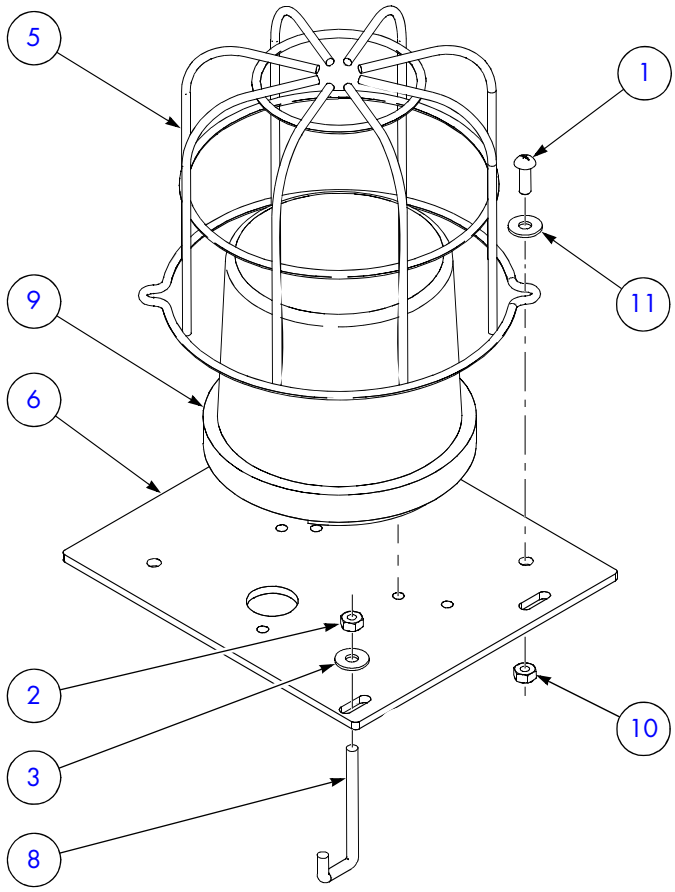
RAYMOND

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Flashing Light Installation

Figure 8-23a: Flashing Light Installation





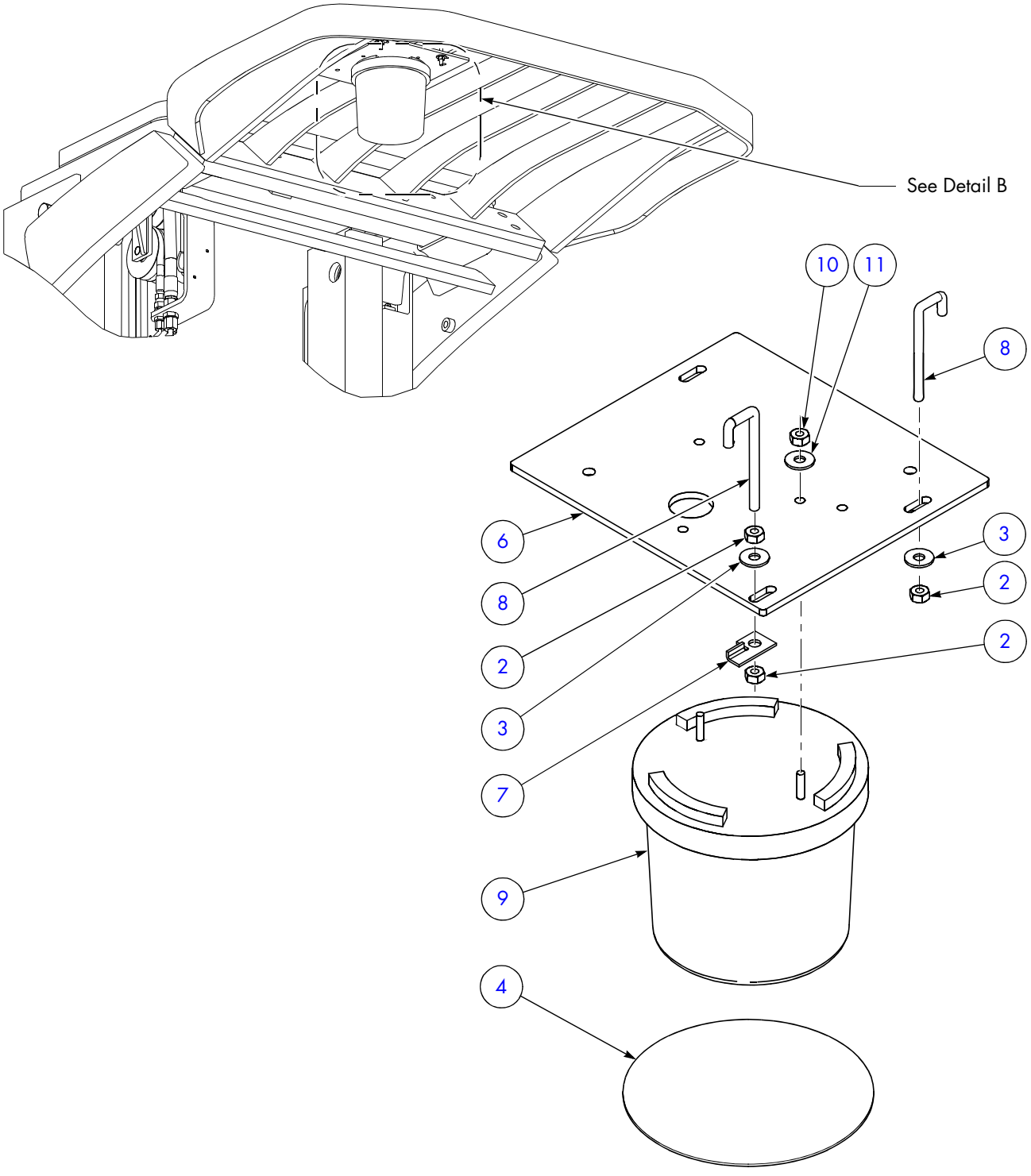
DETAIL A

R1015417_A1 1026135_D1 SHT 1 OF 2

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Flashing Light Installation

Figure 8-23b: Flashing Light Installation



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List 8-23: Flashing Light Installation

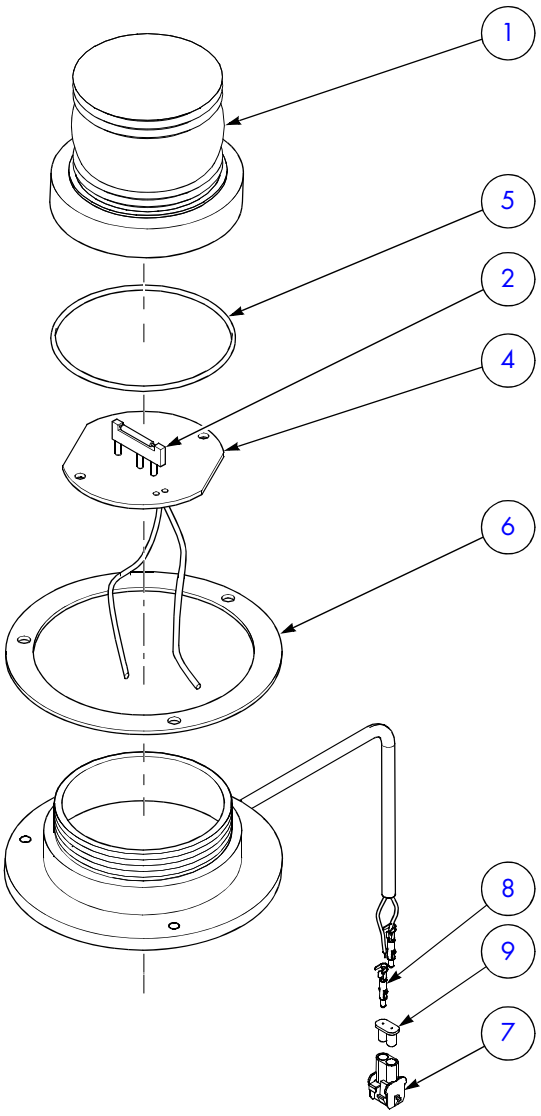
FIGURE 8-23 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	3	701-128	Screw	A
2	4	750-006	Nut	
3	3	771-116	Washer, Flat	
4	1	411-254	Shade	B
5	1	1017558	Guard, Warning Light	A
6	1	1017553	Plate, Mounting	
7	1	1020350	Bracket, Warning Light, Mounting	B
8	3	828-005-503	Hook, Square	
9	1	Ref.	Light, Warning, Flashing LED Lamp Assembly (See Figure 8-25.)	
10	3	750-008	Nut	
11	3	771-012	Washer, Flat	

A= Top of Overhead Guard
B= Bottom of Overhead Guard

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Light, Warning, Strobe Lamp Assembly

Figure 8-24: Light, Warning, Strobe Lamp Assembly



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List 8-24: Light, Warning, Strobe Lamp Assembly

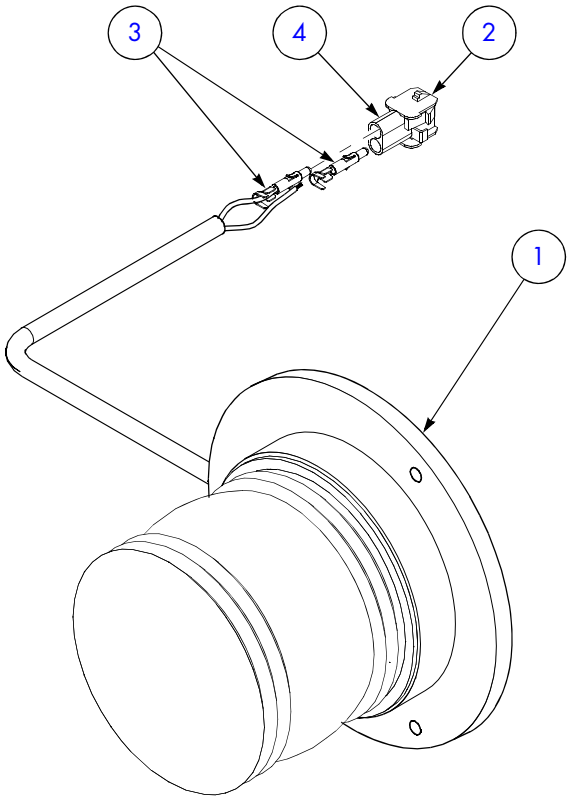
FIGURE 8-24 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	591-569/002	Light, Warning, Strobe, Amber (includes items 2, 4, 5, 6)	
	1	591-569/211	Lens, Amber	
	1	591-569/003	Light, Warning, Strobe, Blue (includes items 2, 4, 5, 6)	
	1	591-569/311	Lens, Blue	
	1	591-569/005	Light, Warning, Strobe, Clear (includes items 2, 4, 5, 6)	
	1	591-569/511	Lens, Clear	
	1	591-569/004	Light, Warning, Strobe, Green (includes items 2, 4, 5, 6)	
	1	591-569/411	Lens, Green	
	1	591-569/001	Light, Warning, Strobe, Red (includes items 2, 4, 5, 6)	
	1	591-569/112	Lens, Red	
2	1	591-569/111	Strobe Lamp, Xenon Flash Tube	
3	1	591-569/113	Kit, Hardware (Not Shown)	
4	1	591-569/114	Card Assembly, Circuit, Warning Light, Strobe	
5	1	591-569/117	O-Ring	R
6	1	591-569/118	Ring, Strobe	
7	1	1-012-070/04	Connector, Electrical	
8	2	1-012-071	Pin, Contact	
9	1	1-012-500/002	Seal, Connector	R

R= Recommended Spare

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Light Assembly, Warning, Flashing

Figure 8-25: Light Assembly, Warning, Flashing



List 8-25: Light Assembly, Warning, Flashing

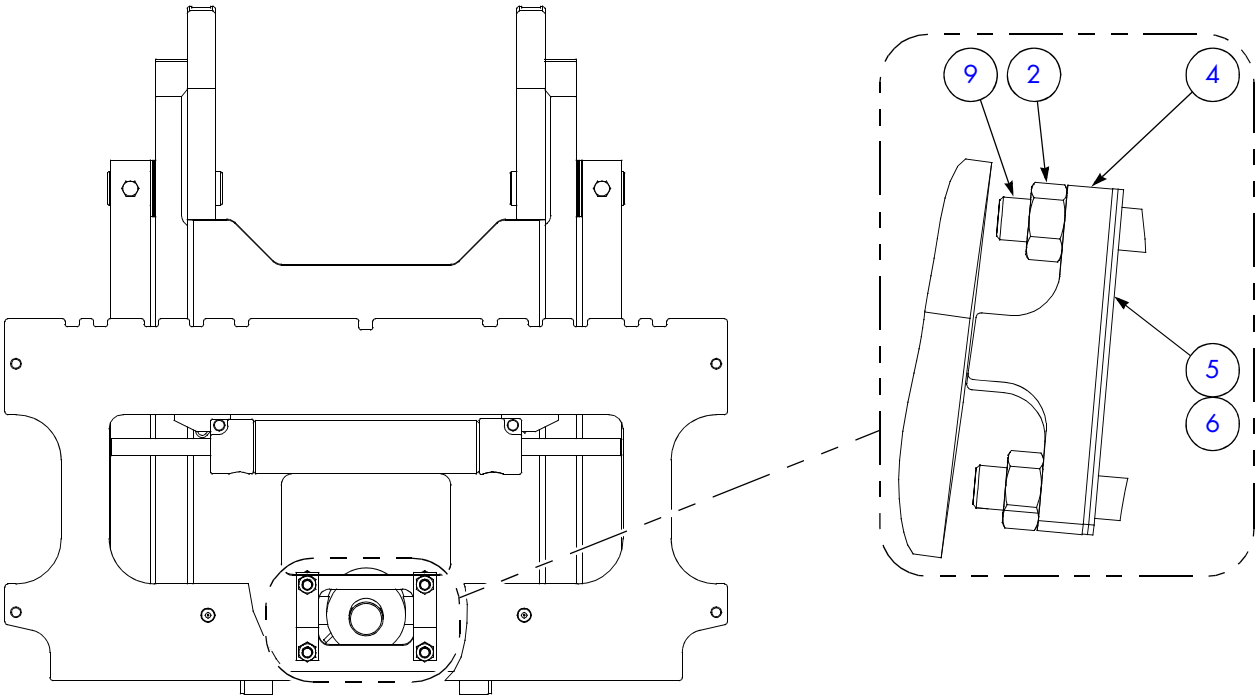
FIGURE 8-25 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1017554/101	Light Assembly, Warning, Flashing (LED), Red (includes:)	
	1	1017555/01	Lens, Red	
	1	1017554/102	Light Assembly, Warning, Flashing (LED), Amber (includes:)	
	1	1017555/02	Lens, Amber	
	1	1017554/103	Light Assembly, Warning, Flashing (LED), Blue (includes:)	
	1	1017555/03	Lens, Blue	
	1	1017554/104	Light Assembly, Warning, Flashing (LED), Green (includes:)	
	1	1017555/04	Lens, Green	
	1	1017554/105	Light Assembly, Warning, Flashing (LED), Clear (includes:)	
	1	1017555/05	Lens, Clear	
2	1	1-012-070/04	Connector, Electrical	
3	2	1-012-071	Pin, Contact	
4	1	1-012-500/002	Seal, Connector	R

R= Recommended Spare

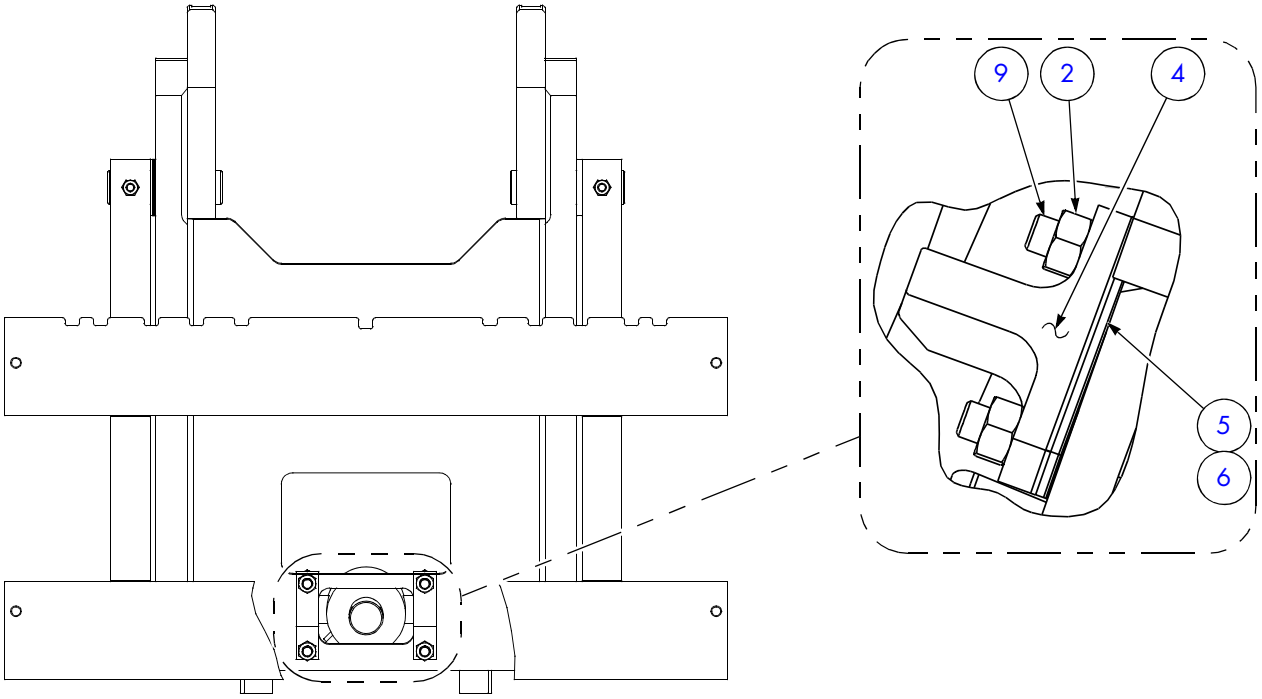
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Tilt Carriage Shims

Figure 8-26a: Tilt Carriage Shims



REACH CARRIAGE WITH TILT AND SIDESHIFT



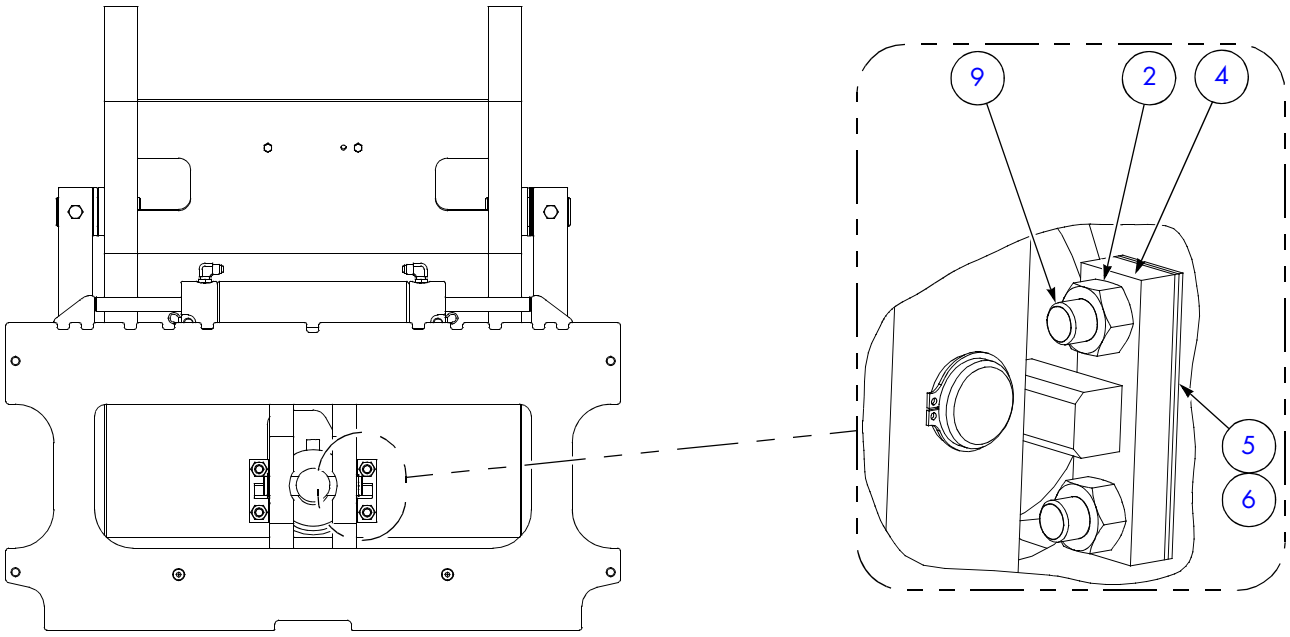
REACH CARRIAGE WITH TILT ONLY

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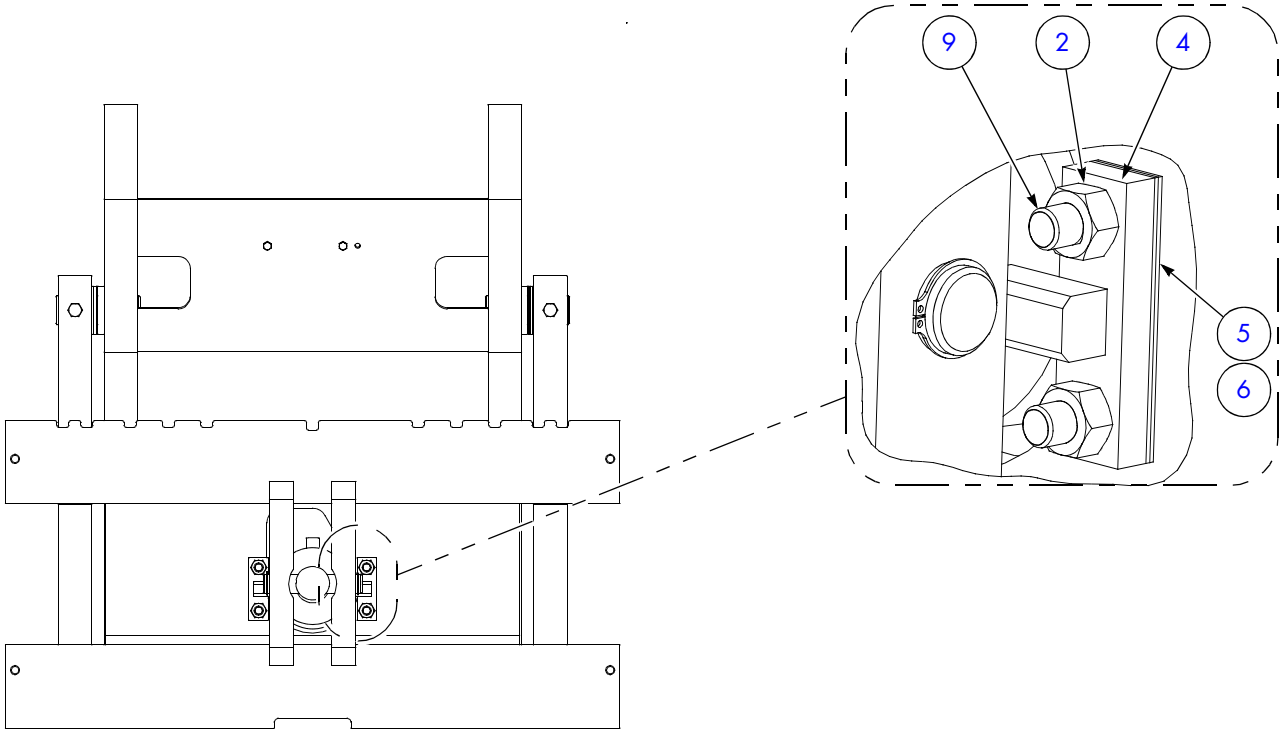
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Tilt Carriage Shims

Figure 8-26b: Tilt Carriage Shims



DEEP-REACH CARRIAGE WITH TILT AND SIDESHIFT



DEEP-REACH CARRIAGE WITH TILT ONLY

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List 8-26: Tilt Carriage Shims

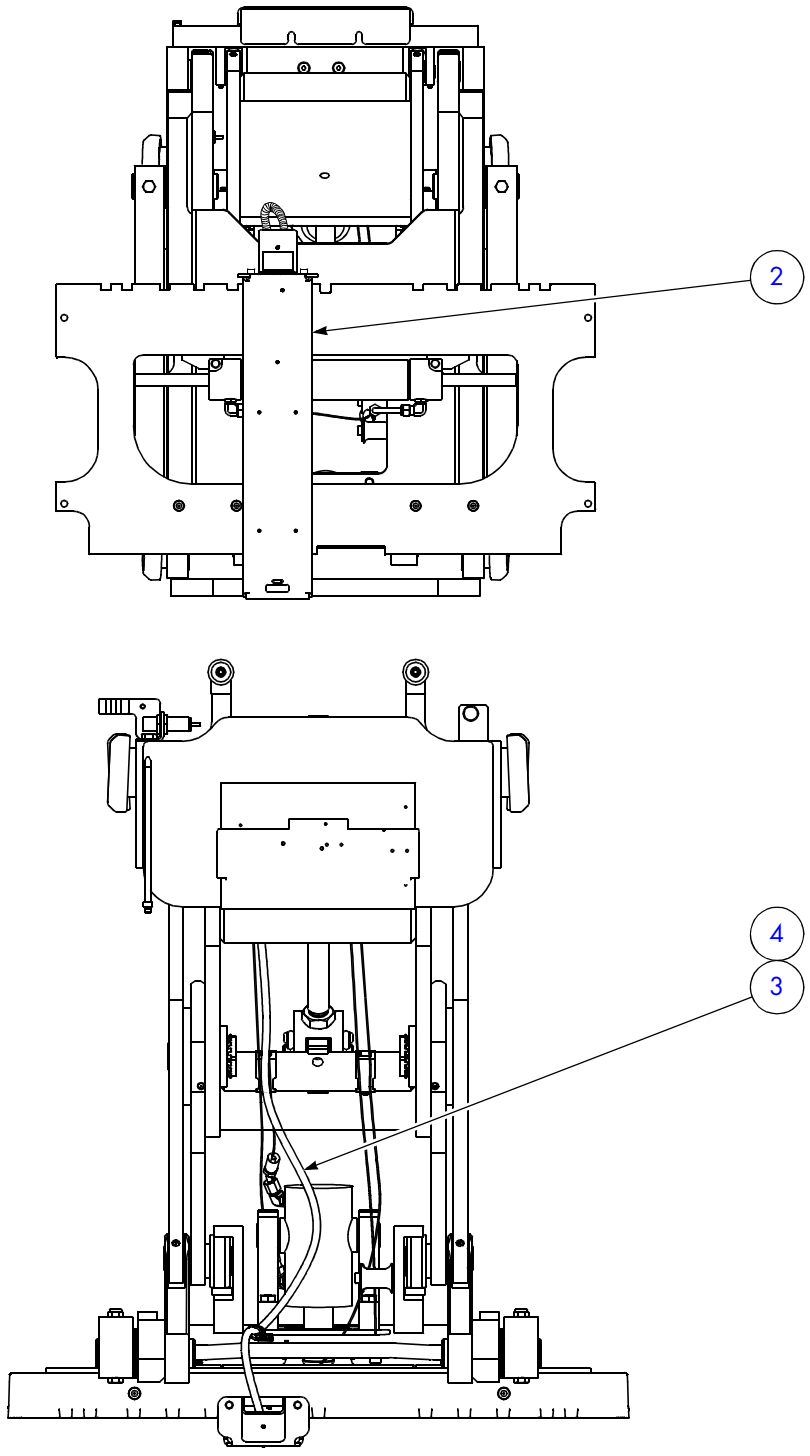
FIGURE 8-26 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
2	4	5-015-007	Nut	
4	2	1072789	Stop (Reach with Tilt Only)	A
	2	1036628	Stop (Reach with Tilt and Sideshift)	A
	2	1036627	Stop	B
5	AR	1018731/001	Shim, Spacer (0.059 in.)	A
	AR	1018731/002	Shim, Spacer (0.105 in.)	A
	AR	1018731/003	Shim, Spacer (0.229 in.)	A
	AR	1018731/004	Shim, Spacer (0.030 in.)	A
	AR	1018731/005	Shim, Spacer (0.036 in.)	A
	AR	1018731/006	Shim, Spacer (0.089 in.)	A
	AR	1018731/007	Shim, Spacer (0.119 in.)	A
	AR	1018731/008	Shim, Spacer (0.015 in.)	A
6	AR	1018732/001	Shim, Spacer (0.059 in.)	B
	AR	1018732/002	Shim, Spacer (0.105 in.)	B
	AR	1018732/003	Shim, Spacer (0.229 in.)	B
	AR	1018732/004	Shim, Spacer (0.030 in.)	B
	AR	1018732/005	Shim, Spacer (0.036 in.)	B
	AR	1018732/006	Shim, Spacer (0.089 in.)	B
	AR	1018732/007	Shim, Spacer (0.119 in.)	B
	AR	1018732/008	Shim, Spacer (0.015 in.)	B
9	4	1018783/001	Screw	B
	4	1018783/002	Screw	A

A= R35TT and R45TT
B= DR32TT

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Fork-Laser System Installation

Figure 8-27a: Fork-Laser System Installation



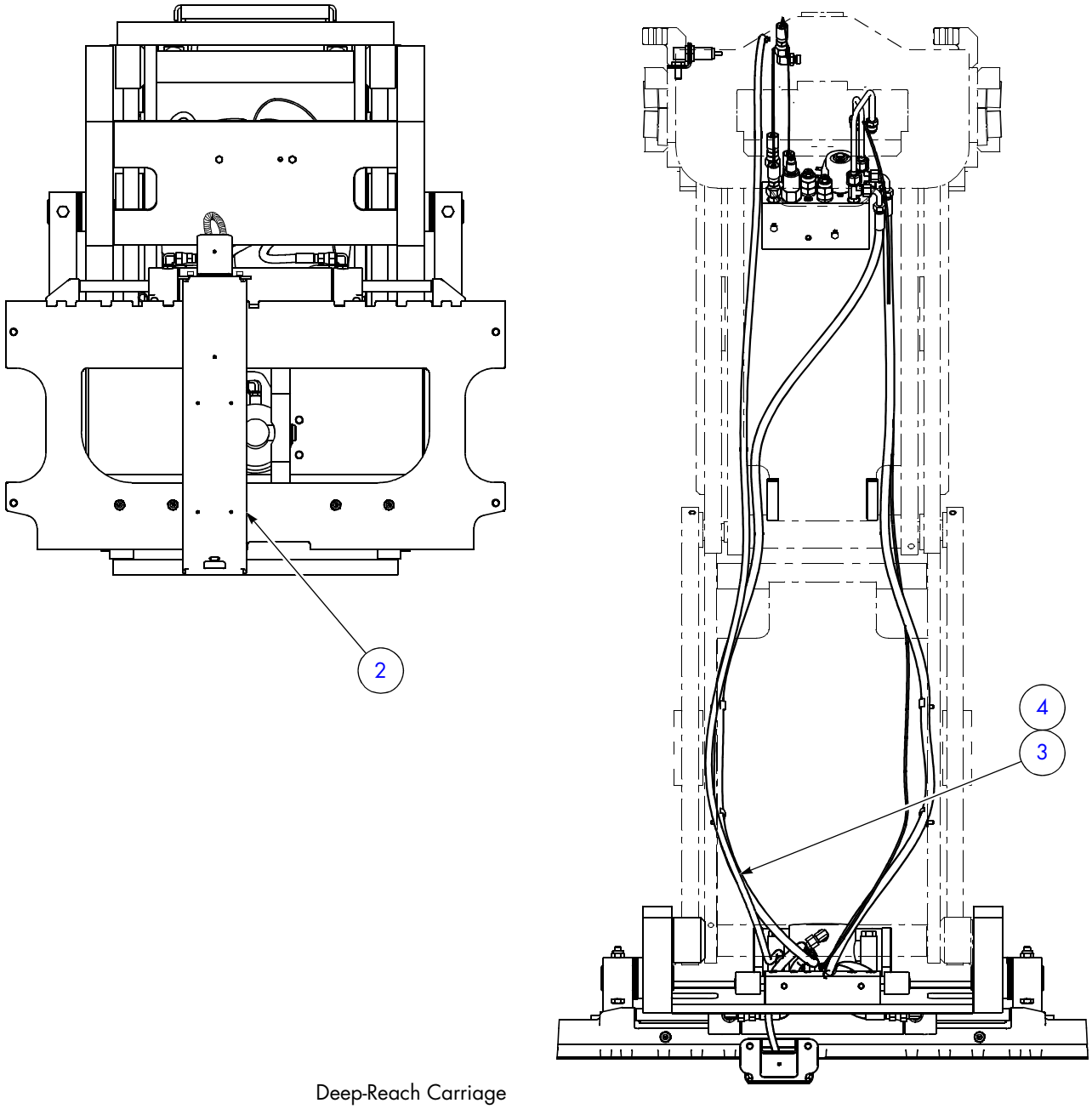
Single Reach Carriage

1096600_1A 1096600_A5 SHT 1 OF 5

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Fork-Laser System Installation

Figure 8-27b: Fork-Laser System Installation



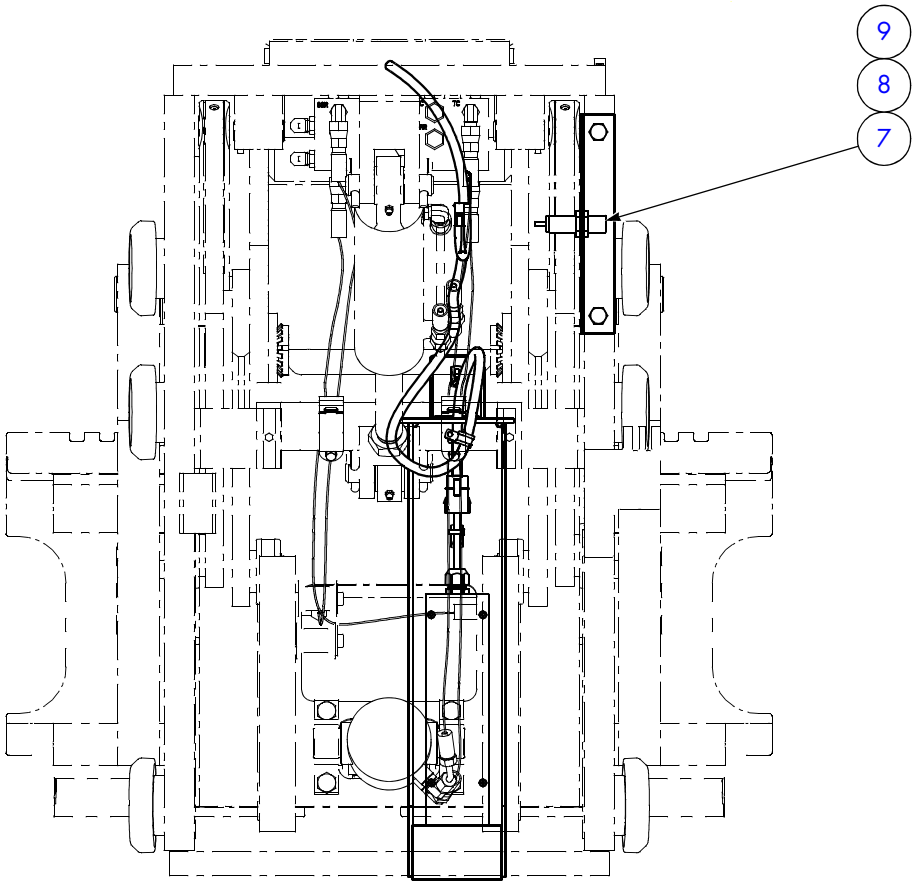
Deep-Reach Carriage

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Fork-Laser System Installation

Figure 8-27c: Fork-Laser System Installation



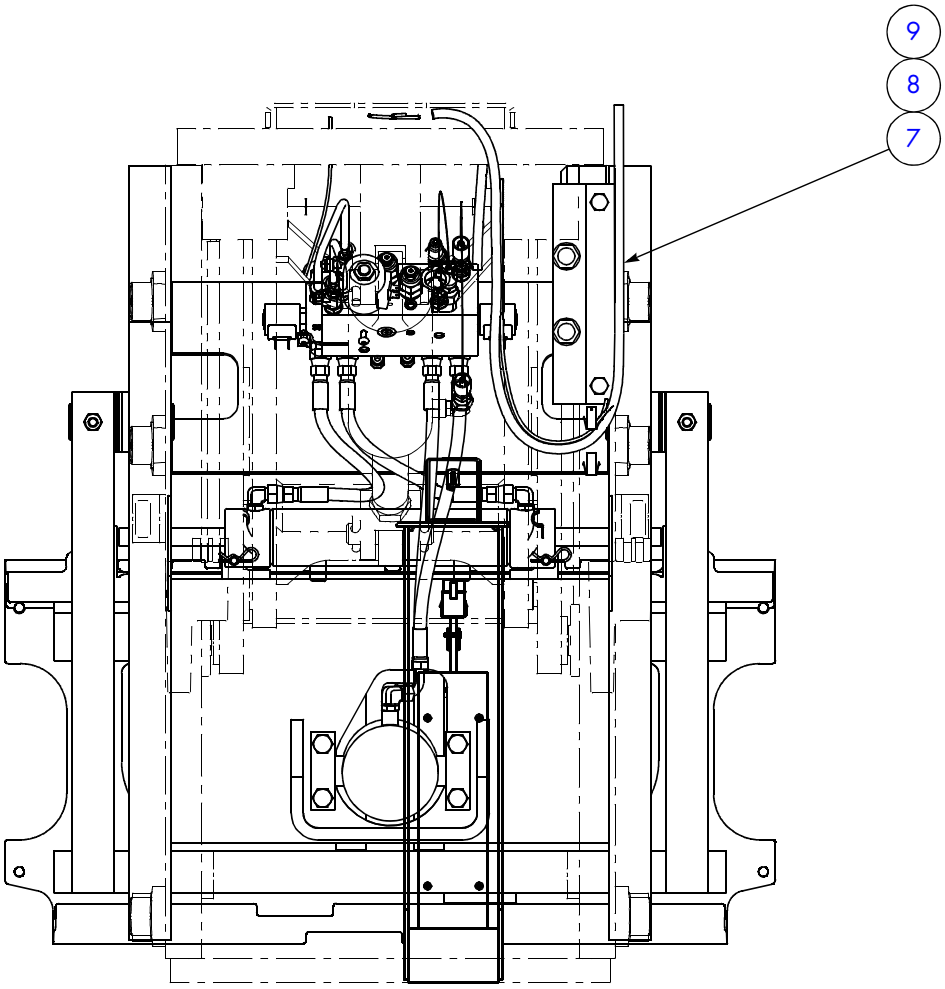
Model 7400 Carriages

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Fork-Laser System Installation

Figure 8-27d: Fork-Laser System Installation



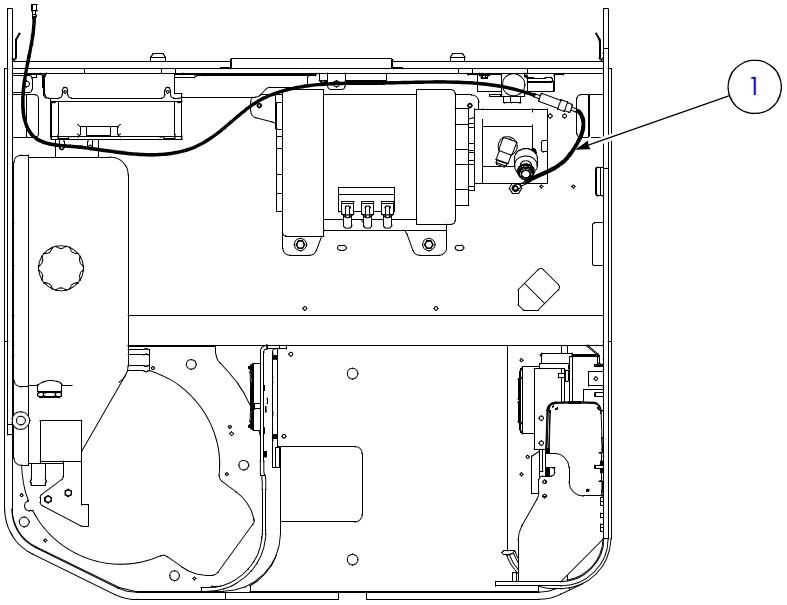
Model 7420 and 7440 Carriages

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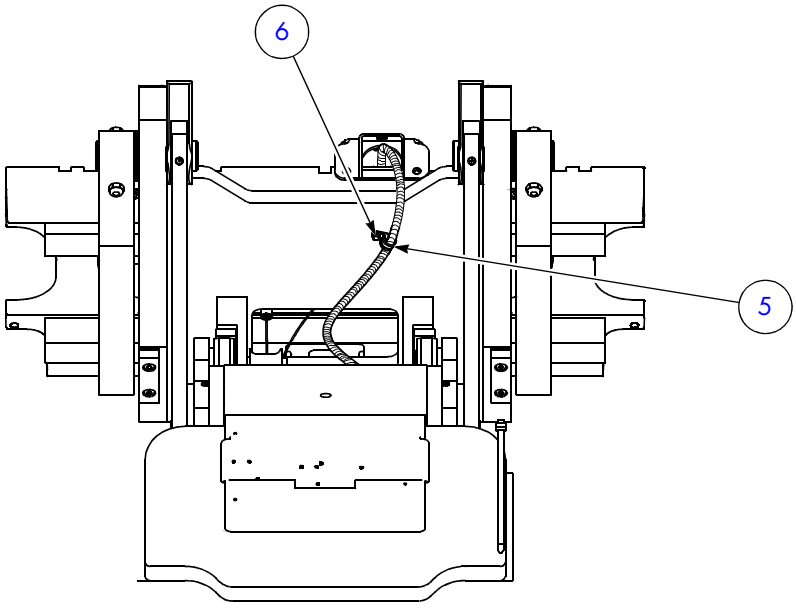
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Fork-Laser System Installation

Figure 8-27e: Fork-Laser System Installation



Tractor Body (B-) Fuse Installation



Harness Clamp Installation -
Standard Carriages Only

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List 8-27: Fork-Laser System Installation

FIGURE 8-27 ITEM NO.	QTY	PART NUMBER	DESCRIPTION	USED ON
1	1	1095913	Wire Assembly, Ground	
2	1	1096599/001	Laser Assembly, Green	
	1	1096599/002	Laser Assembly, Red	
3	1	1095738/001	Harness	A
	1	1095738/002	Harness	B
	1	1095821/001	Harness	C
	1	1095821/002	Harness	D
4	6	611-028	Cable Tie	
5	1	1-074-087/007	Clamp	A, C
6	1	5-011-014	Screw	A, C
7	1	1031427/004	Sensor, Proximity	A, B
	2	1031427/004	Sensor, Proximity	C, D
8	1	1095667	Bracket, Sensor	A, B
	1	1095892	Bracket, Sensor	C, D
9	2	5-001-015	Screw	
10	2	1-010-280	Terminal (Not Shown)	

A= Model 7400, Single Reach
B= Model 7400, Deep Reach
C= Models 7420 and 7440, Single Reach
D= Models 7420 and 7440, Deep Reach

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RAYMOND

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Printed by the Digital Print Center,
The Raymond Corporation, Greene, NY