



# **AUTOMATED SIDE LOADER LOADMASTER ECLIPSE PARTS MANUAL**

**LOADMASTER  
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## **Introduction**

Loadmaster developed the ***Eclipse Automated Side Loader (ASL)*** with simplicity of operation and ease of maintenance as key objectives. We accomplished this through the use of the latest technology. This technology with the full backing of your local dealer, factory representatives and this manual should allow you to successfully maintain your Automated Side Loader when ordering aftermarket replacement parts.

The objective of this manual is to provide, to the end user, the essential information for proper identification and successful ordering of aftermarket replacement parts.

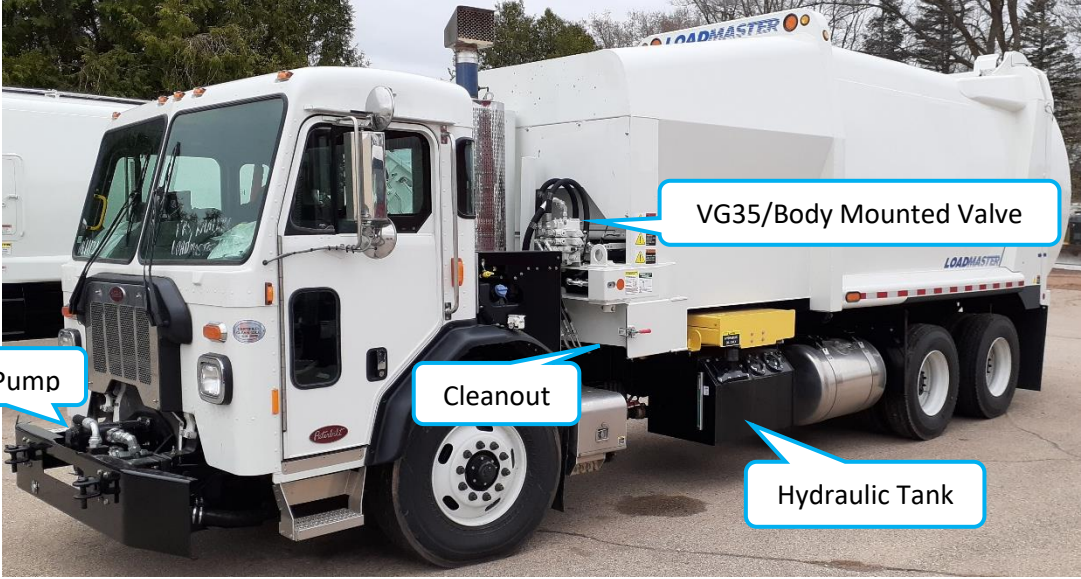
The following section comprise this manual.

Section 1	Hydraulic Pumps
Section1a	Hydraulic Pumps
Section1b	PTO Pumps
Section1c	Dual PTO Pumps
Section 2	Chassis Hydraulics
Section 3	Chassis Mounted Valve
Section 4	Hydraulic Tank
Section 5	Arm Carriage
Section 6	Sprocket Arm Lifter
Section 7	Container Grabber
Section 8	Body Hydraulic Tubes
Section 9	Body Mounted Valve
Section 10	Packer and Follower
Section 11	Crusher
Section 12	Body
Section 13	Tailgate
Section 14	Decals
Section 15	Cylinders
Section 16	Control System
Section 17	Proximity Switches
Section 18	Lights
Section 19	Camera Systems
Section 20	Options and Miscellaneous
Section 21	Grease Lines and Fittings
Section 22	Service

Note: If the user is unable to properly identify the parts needed, contact your nearest dealer representative for customer support or Loadmaster Corporation.

## Terminology





Front Pump

Cleanout

VG35/Body Mounted Valve

Hydraulic Tank



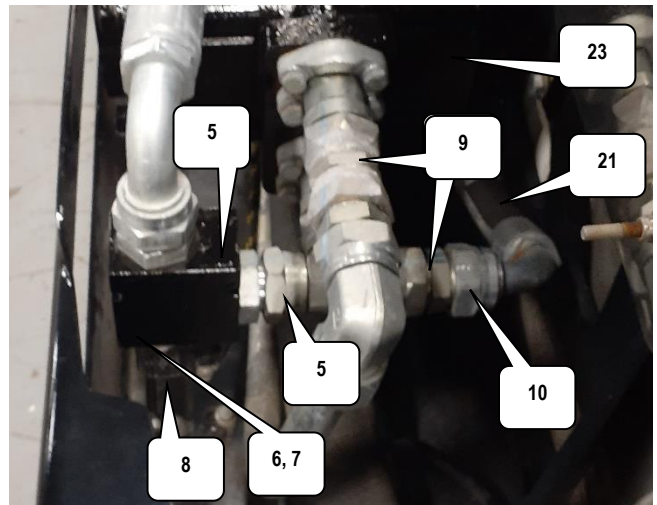
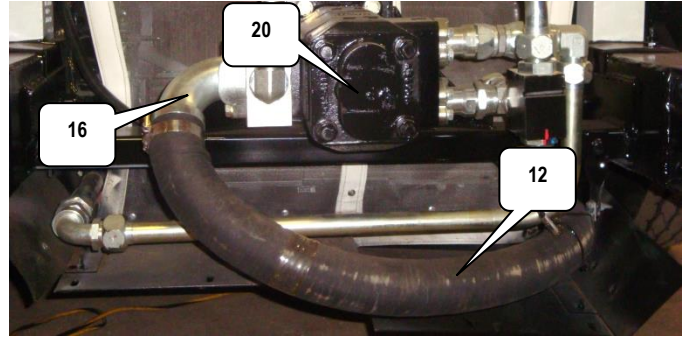
**LOADMASTER**

*June 2021*

**Hydraulic Pump and Components**

Hydraulic Pump and Components, Assemblies and Parts.

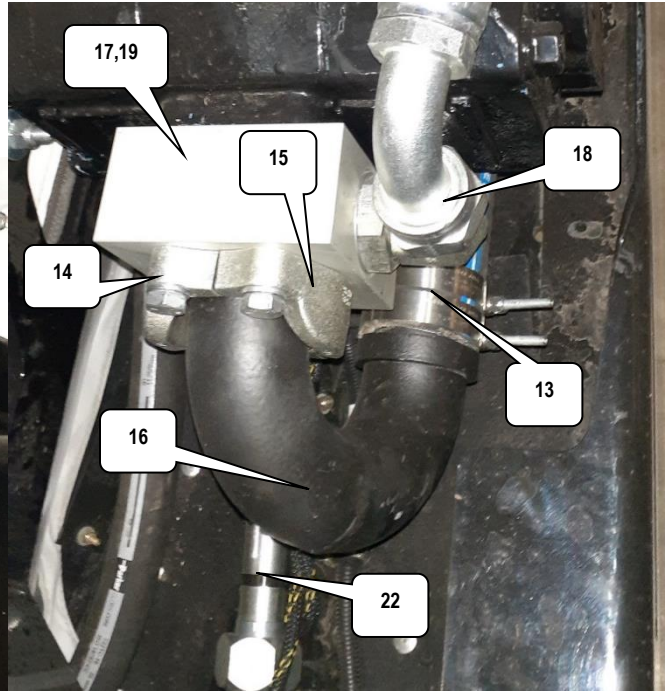
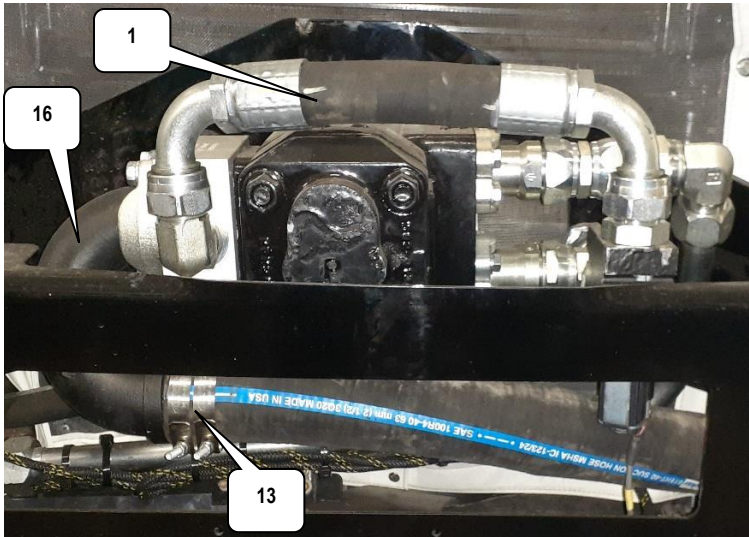
No.	Qty	Description	Part #
1	1	Pump Inlet Hose	A94285
2	2	Connector, Flange, Code 61	A93009
3	2	Flange, Split, 1-1/4", Kit, Code 61	A93010
4	1	Tee, 3 Way, 20 Female, JIC	A93011
5	2	Connector, Straight Thread	A93012
6	1	Valve Body, #20, Parker	A62005
7	1	Cartridge, Valve, 2-way, NO, Parker	A92003
8	1	Coil, 12V DIN	A92004
9	2	#20 JIC Union	9933006
10	1	Reducer, Tube End, w/Nut	A93013
11	1	#16 HTX Union	A93016
12	1	Tube, Front Pump	9930099
13	1	#20 Split Flange	A93003
14	4	Bolt, Hex, 1/2-13NC x 4.25", GR 8	A93007
15	1	Flange, Split, 2.5", Code 61	A93004
16	1	Pump Inlet 180 Degree	A63034
	1	Pump Inlet 90 Degree	A93005
	1	Pump Inlet 45 Degree	A93135
17	1	Block, Flange, Pump Inlet	A91007
18	1	Elbow, Straight Thread	A93006
19	1	O-ring, Size 40, Code 61	A93008
20	1	Pump, Permco 2"x 2" - std.	A95002
		Pump, Parker 2" x 2"	A95005
		Pump, Parker 1 3/4" x 2"	A95007
		Pump, Permco 2" x 2 1/4"	A95023
21	1	Hose, Pressure, (Pump to Chassis Tube)	A94032
22	1	Hose, Pressure, (Pump to Dump Valve)	A94033
23	1	Cover, Drive Shaft	A19030





**Hydraulic Pump and Components**

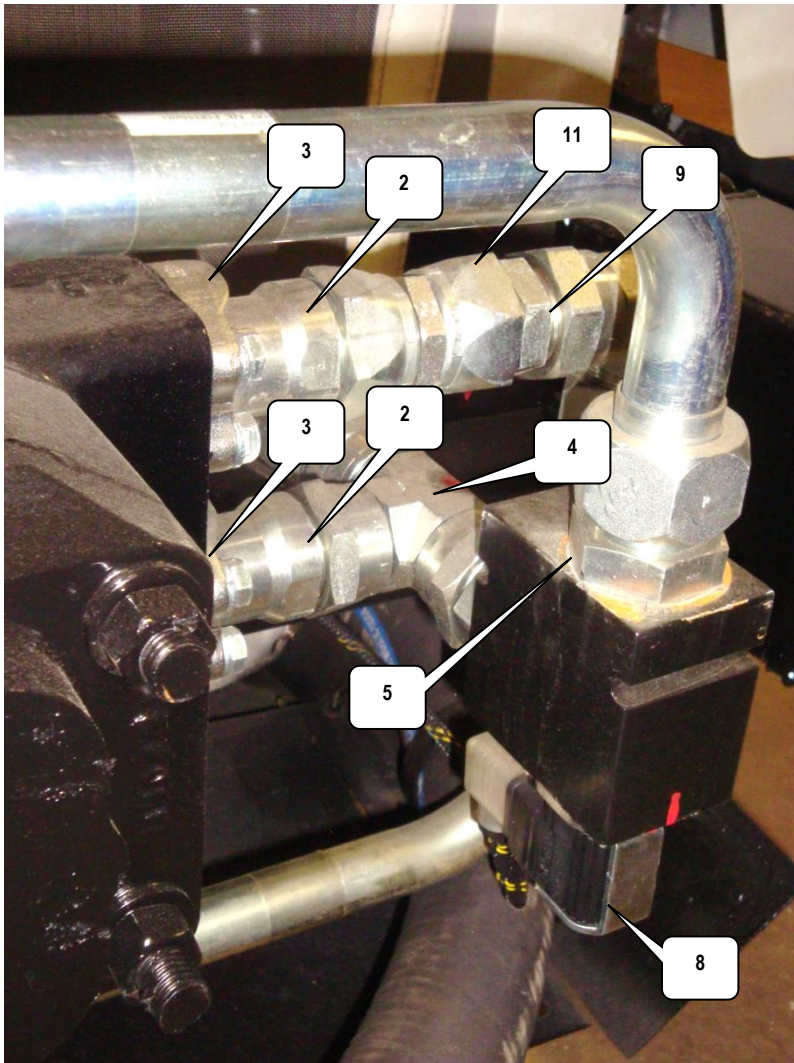
Hydraulic Pump and Components, Assemblies and Parts.



### Hydraulic Pump and Components

Hydraulic Pump and Components, Assemblies and Parts.

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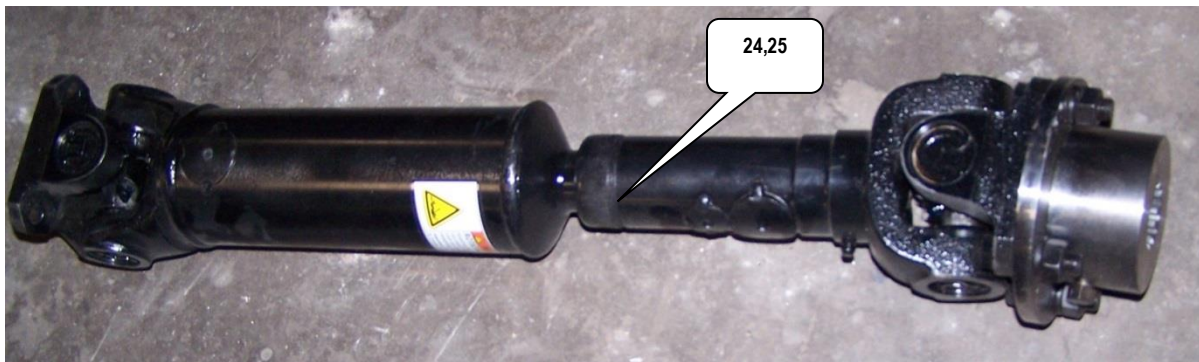


**Hydraulic Pump and Components**

Hydraulic Pump and Components, Assemblies and Parts.

No.	Qty	Description	Part #
24	1	Drive Shaft (Condor Chassis Only)	See Note
25	1	Damper, Front Pump Pulley/Adapter (Condor Chassis Only)	See Note

**NOTE:** Drive Shafts are Chassis Specific for length/design of Chassis Pump, Engine, Radiator, Damper Pulley, and Mounts. The parts list is for a Condor Chassis only. LoadMaster recommends owners contact their local dealer representative for drive shaft support and/or replacement parts.



## Eclipse Automated Side Loader - ASL

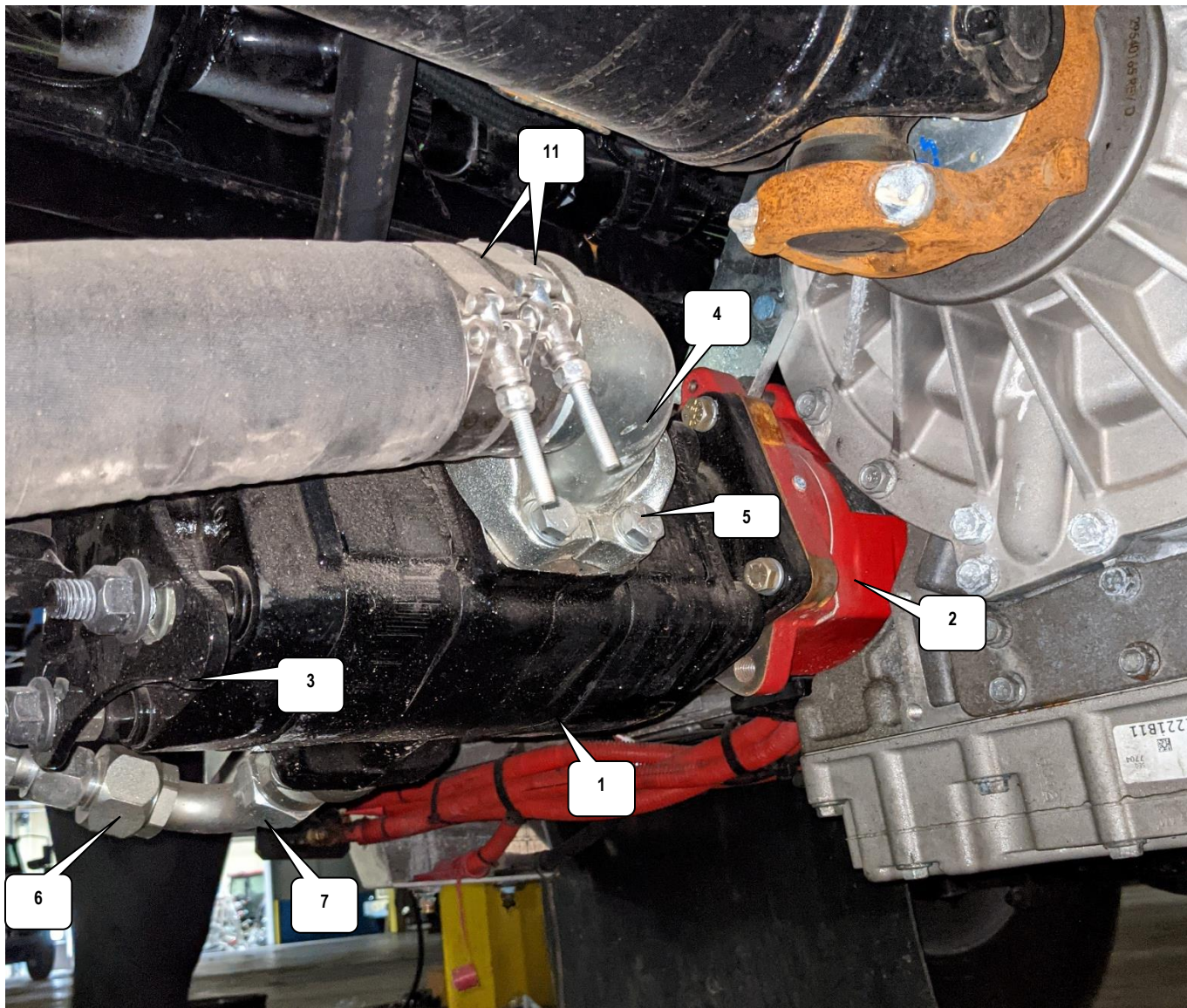
**Hydraulic PTO Pump and Components**

## Hydraulic Pump and Components, Assemblies and Parts.

No.	Qty	Description	Part #
1	1	PTO Tandem Gear Pump	A95006
		Small Port PTO Tandem Gear Pump	A95023
2	1	Heavy Duty Hotshift PTO	9935204
3	1	Pump Tie Bolt Anchor Bracket	0103131
3a	1	Pump Support Rod	0103132
3b	1	Pump Tie Bolt Bracket	0033257
3c	1	Pump Support Rubber Spring	0033258
4	1	#40 90degree barb to C61 flange fitting	A93015
	1	#32 FLANGE- #32 HOSE 45*ELBOW	9931026
5	1	#40 Code 61 Split Flange Kit	A93004
	1	#32 Flange Kit	9931025
6	2	#20 JIC FEM X #16 MALE	9933451
		No fitting used on small port PTO	
7	3	90 Degree Male #20 JIC X #20 FEM	9933342
8	2	CODE 61 FLANGE #20 CONNECTOR	A93009
	2	CODE 61 #16 FLANGE-#16 JICM	9931051
9	1	Pressure Hose, Pump to Chassis Tube	A94261
10	1	Pressure Hose, Pump to Dump Valve	A94262
11	2	T BOLT HOSE CLAMP- 2 1/2"	A93003
	2	T-BOLT CLAMP- 2"	9931007
12	2	#20 Code 61 Flange Kit	A93010
	2	#16 Code 61 Flange Kit	9931018

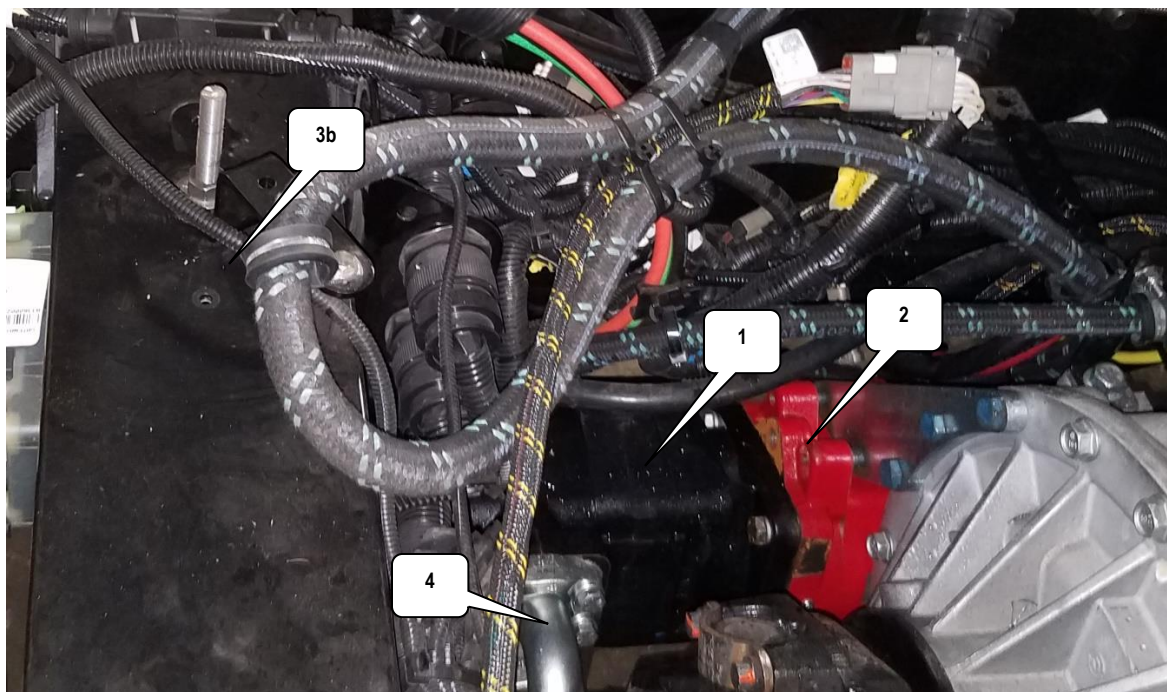
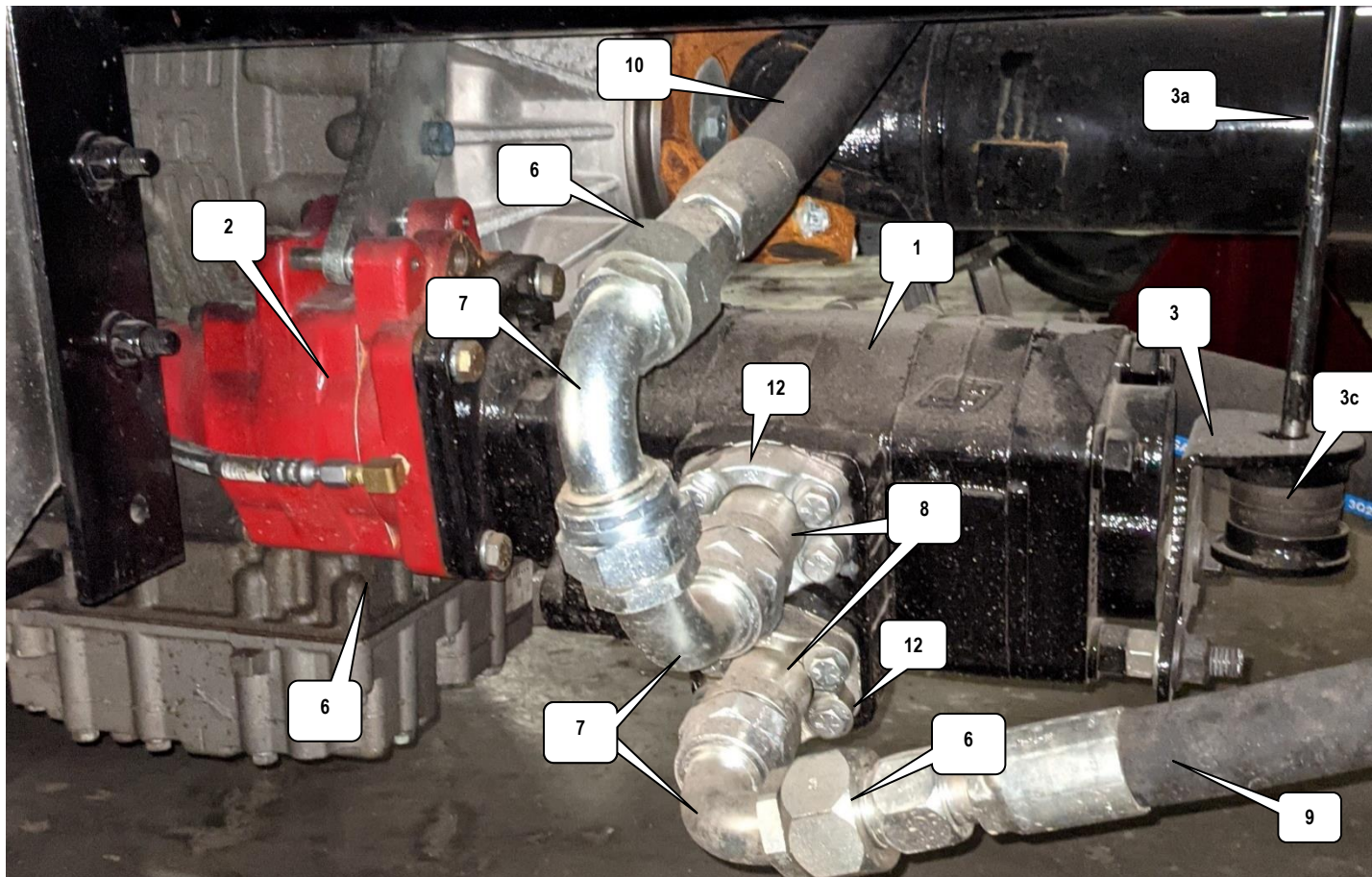
### Hydraulic PTO Pump and Components

Hydraulic Pump and Components, Assemblies and Parts.



### Hydraulic PTO Pump and Components

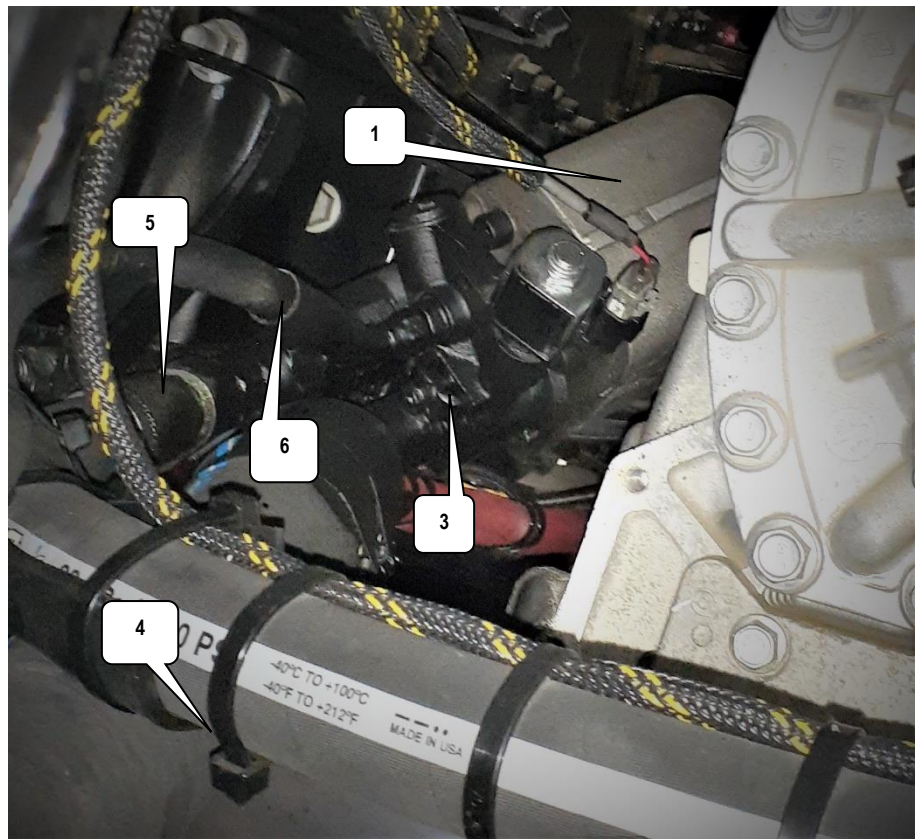
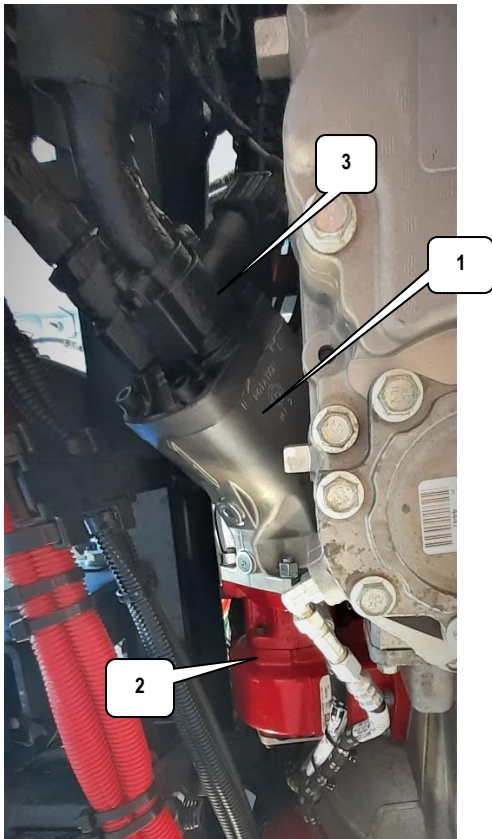
Hydraulic Pump and Components, Assemblies and Parts.



**Hydraulic PTO Pump and Components**

Hydraulic Pump and Components, Assemblies and Parts.

Packer Pump, Pump 1			
No.	Qty	Description	Part #
1	1	Parker Piston Pump, Pump #1	A95021
2	1	PTO for Pump #1	A95018
3	1	Pump Bypass and Fitting Kit	A95022
4	1	#40 Suction Hose	A94076
5	1	Pressure Hose, Pump to Chassis Tube	A94242
6	1	Bypass Drain Hose	A94299



**Hydraulic PTO Pump and Components**

Hydraulic Pump and Components, Assemblies and Parts.

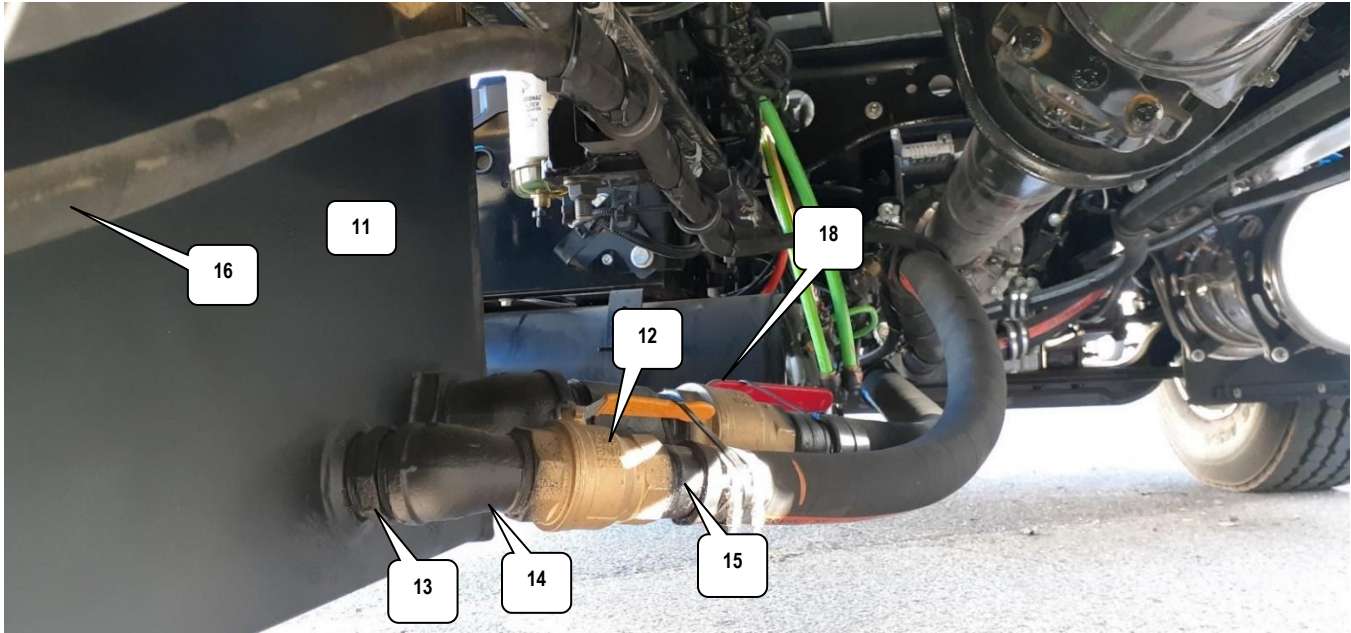


<b>Arm Pump, Pump 2</b>			
<b>No.</b>	<b>Qty</b>	<b>Description</b>	<b>Part #</b>
7	1	OMFB Piston Pump, Pump #2	9935106
8	1	PTO for Pump #2	A95018
9	1	#32 Suction Hose	9934014
10	1	Pressure Hose, Pump to P70 Valve	A94242

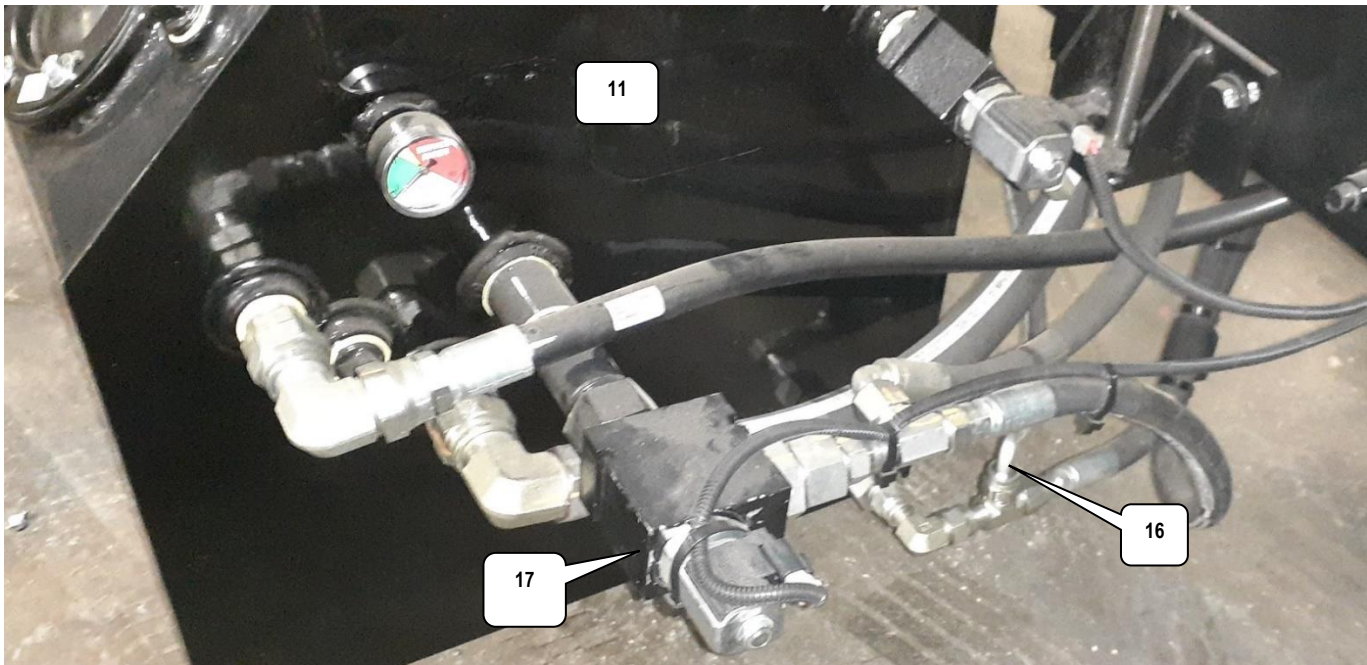


**Hydraulic PTO Pump and Components**

Hydraulic Pump and Components, Assemblies and Parts.



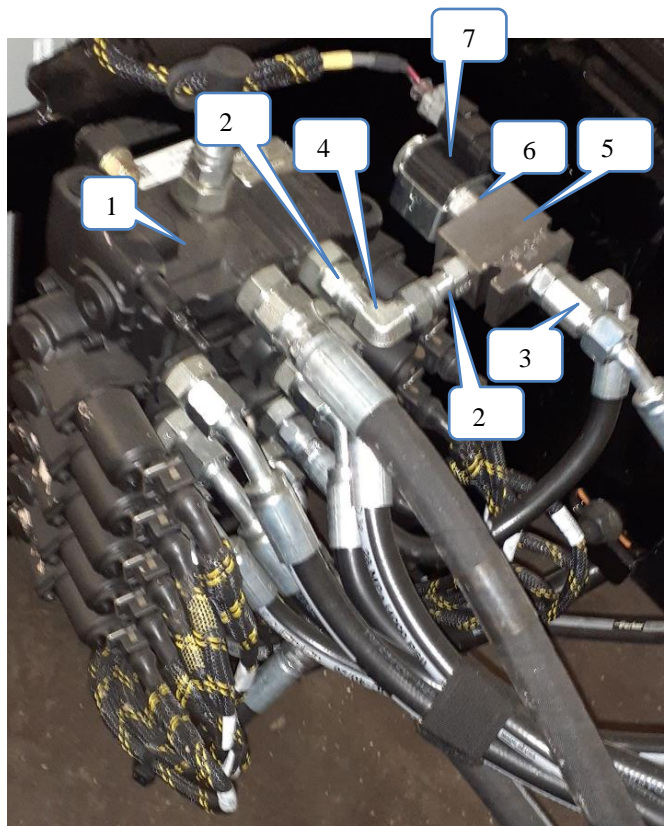
<b>Dual PTO Hydraulic Tank</b>			
<b>No.</b>	<b>Qty</b>	<b>Description</b>	<b>Part #</b>
11	1	Dual PTO Tank	A17025
12	1	2" Shut Off	9932003
13	1	2" Screw in External Suction Strainer	9931102
14	1	2" Street Elbow	9933196
15	1	2" Barb Fitting	9933052
16	1	Pump #1 Bypass Drain Hose	A94
17	1	Hoist Dump Valve Relocated	Multiple
18	1	2 1/2" Std. Suction Hardware and Fittings	Multiple



**Eclipse Automated Side Loader - ASL**  
**Chassis Hydraulics**

**Section 2**

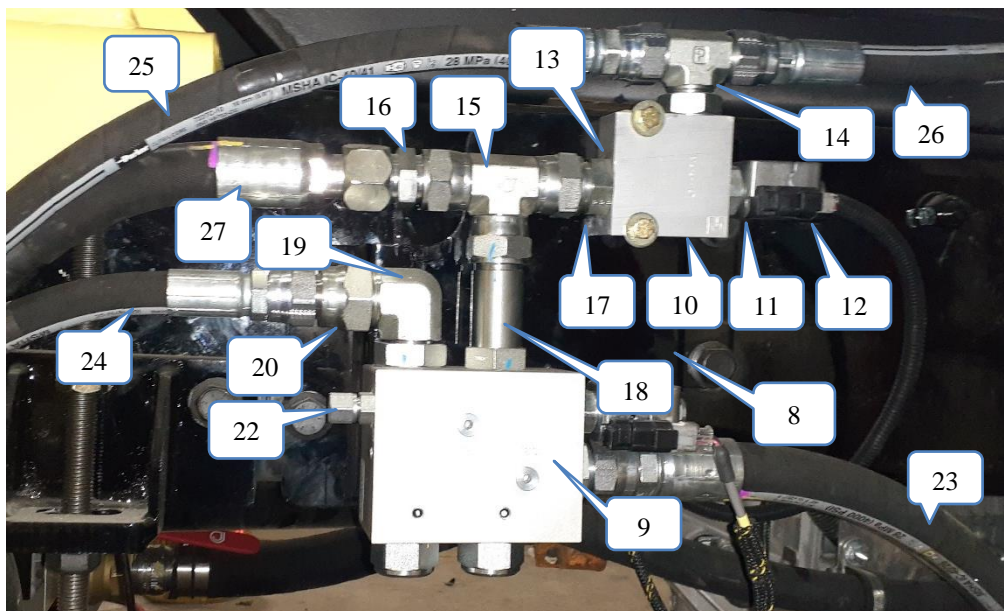
No.	Qty	Description	Part #
1	1	P-70 Chassis Mounted Valve	A92071
2	2	Strait Thread Connector	A93043
3	1	Port Tee Fitting	A93048
4	1	Elbow	A93044
5	1	#6 Block	A920587
6	1	Variable Relief	A92054
7	1	12V Coil	A92010



See Section 3 for hydraulic hoses\*

No.	Qty	Description	Part #
8	1	Valve Mount	A30312
9	1	LSV Logic Selector Valve	A92095
10	1	#12 Block	A92094
11	1	#12 NC Dump Valve	A92093
12	1	12V Coil	A92010
13	1	#12 Block Spacer	A30602
14	1	#12 Tee	9933013
15	1	#16 JIC F Tee	A93147
16	1	#16 JIC Union	9933005
17	1	#12 ORB to #16 JIC	9933306
18	1	#16 ORB to #16 JIC Long	9933026
19	1	#16 ORF Elbow	A93072
20	1	#16 to #12 ORF Adapter	9933901
21	1	#16 ORB to ORF	A93150
22	1	#6 Plug	9933416

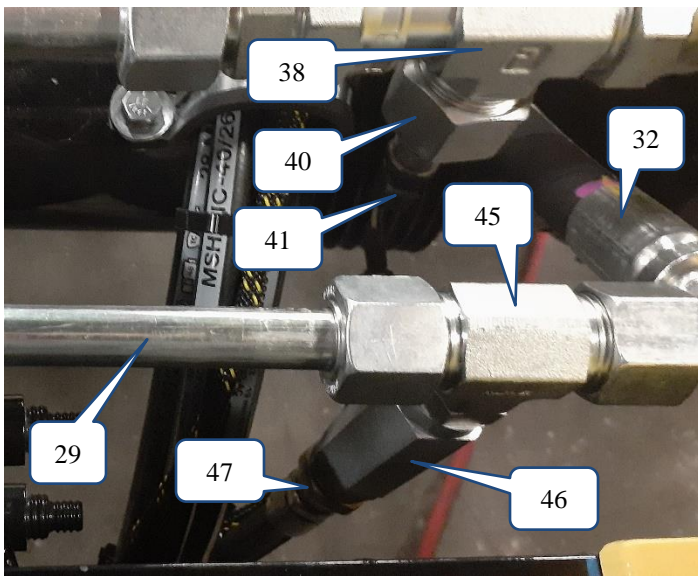
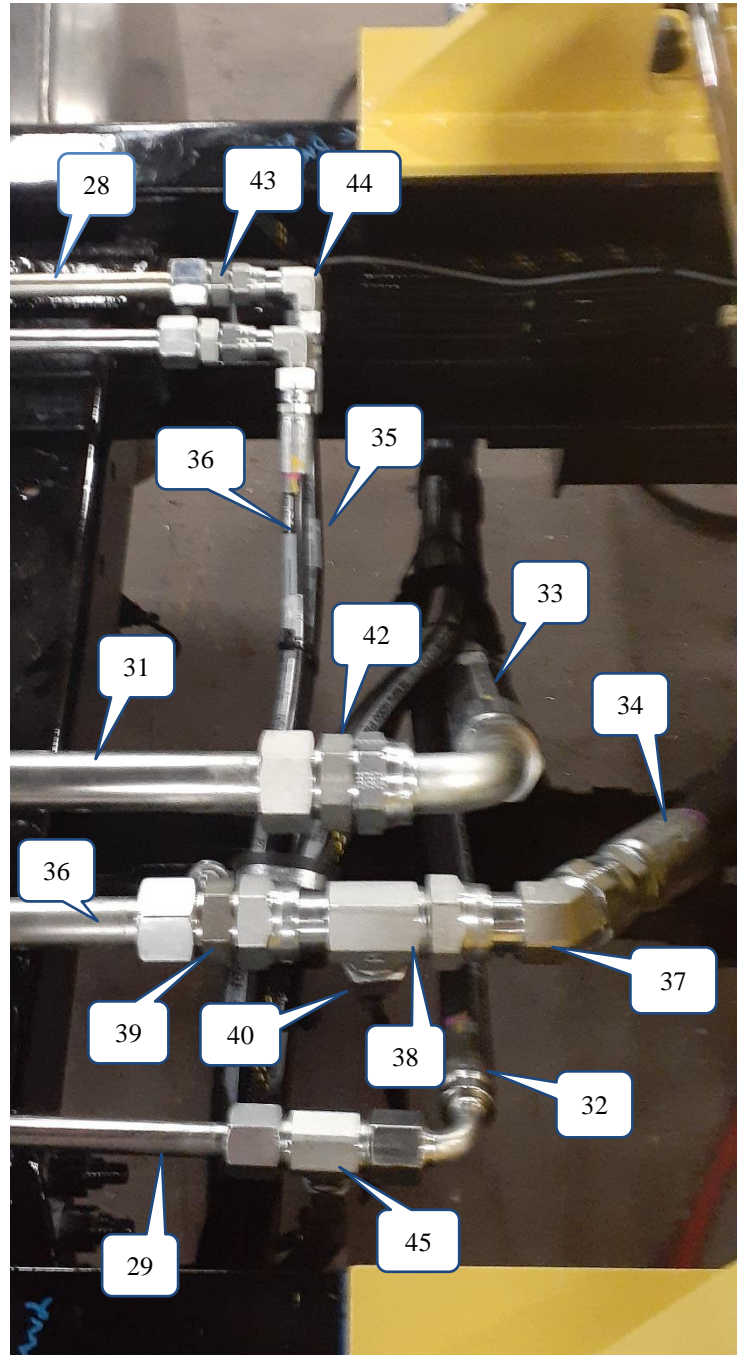
No.	Qty	Description	Part #
23	1	Pump2 to WV Hose	Chassis Specific
24	1	WV to P70 Hose	A94242
25	1	P70 Hoist to Hoist Dump	Chassis Specific
26	1	Hoist dump to Hoist	A94301
27	1	Dump to Tank	A94299



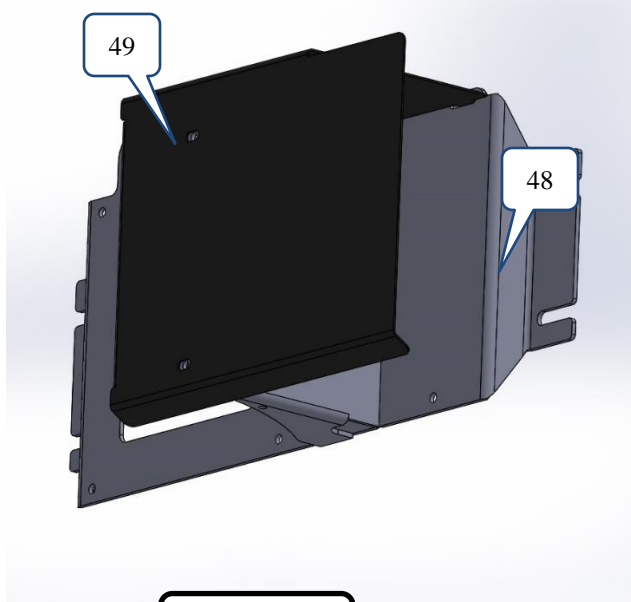
Eclipse Automated Side Loader - ASL  
Chassis Hydraulics

Section 2

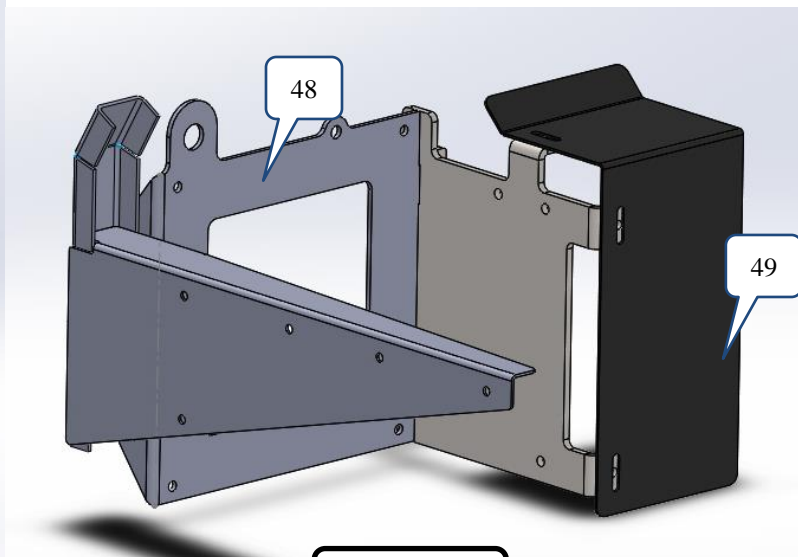
No.	Qty	Description	Part #
28	2	Tailgate Chassis Tube	A90042/A90002/A90022 (Short / Std. / Long)
29	1	5/8" Chassis Tube	A90043/A90003/A90023 (Short / Std. / Long)
30	1	1" Chassis Tube	A90044/A90004/A90024 (Short / Std. / Long)
31	1	1 1/4" Chassis Tube	A90045/A90005/A90025 (Short / Std. / Long)
32	1	TANK Hose	A94215
33	1	Hose, 1 1/4" Return - TANK	A94041
34	1	Hose, P1 - Tube	Chassis Specific
35	1	Hose, T/G A - T/G STREETSIDE TUBE	A94213
36	1	Hose, T/G B - T/G CURBSIDE TUBE	A94214
37	1	Elbow, 45 Degree, #16	A93102
37	1	Tee, Run	9933378
39	1	Union, Male, #16	A93078
40	1	Transducer Adapter	A63038
41	1	Pressure Transducer	A91016
42	1	Union, #20	A93074
43	3	Union, #10 - #8	A93068
44	2	#10- #8 Elbow, 90 Degree	A93099
45	1	#10 Velocity Fuse Tee	A93150
46	1	#10 Velocity Fuse	A92097
47	1	#10 ORB to ORF Str.	A93022



No.	Qty	Description	Part #
48	1	P70 Mount	A19001
		P70 Mount, Short	A19052
49	1	P70 Cover	A20289
		P70 Cover, Short	A20634



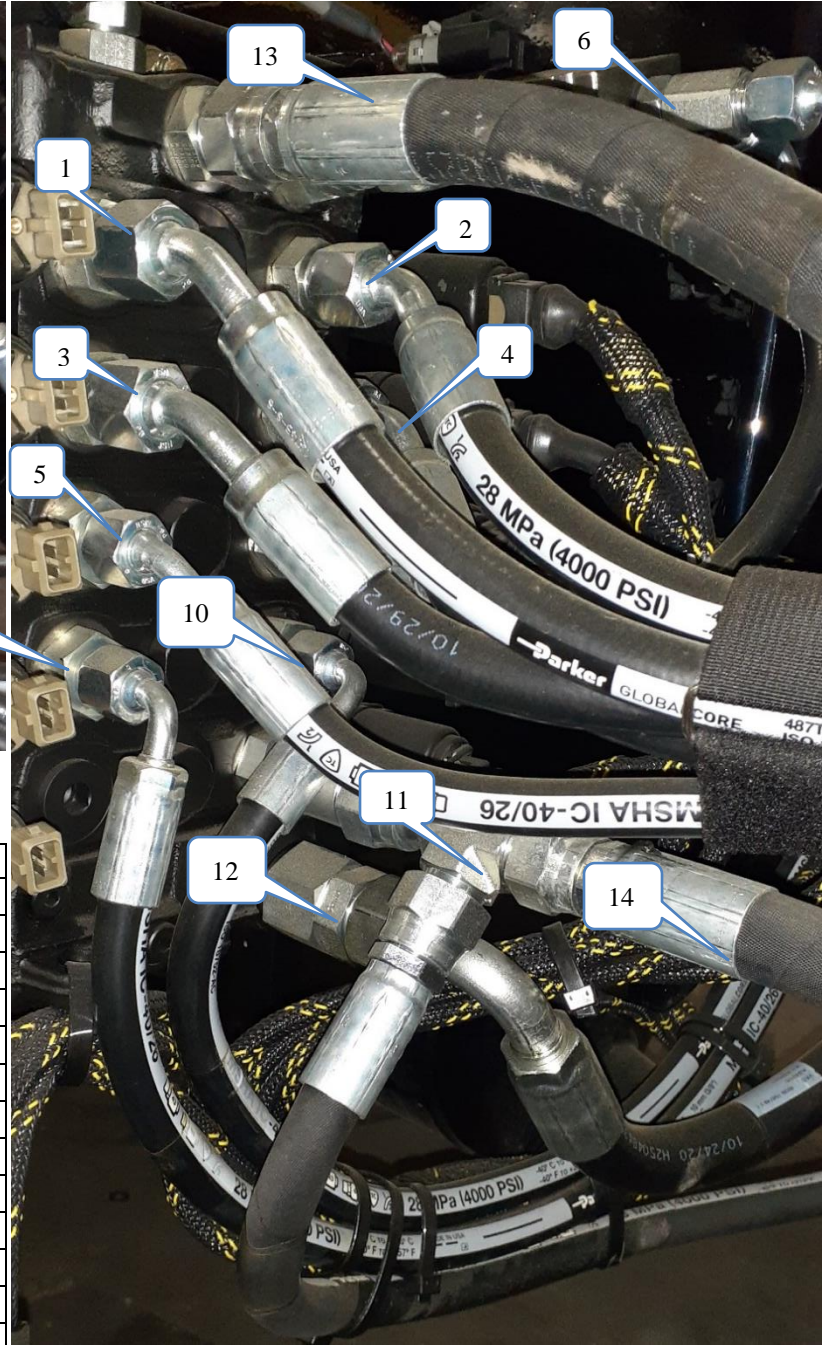
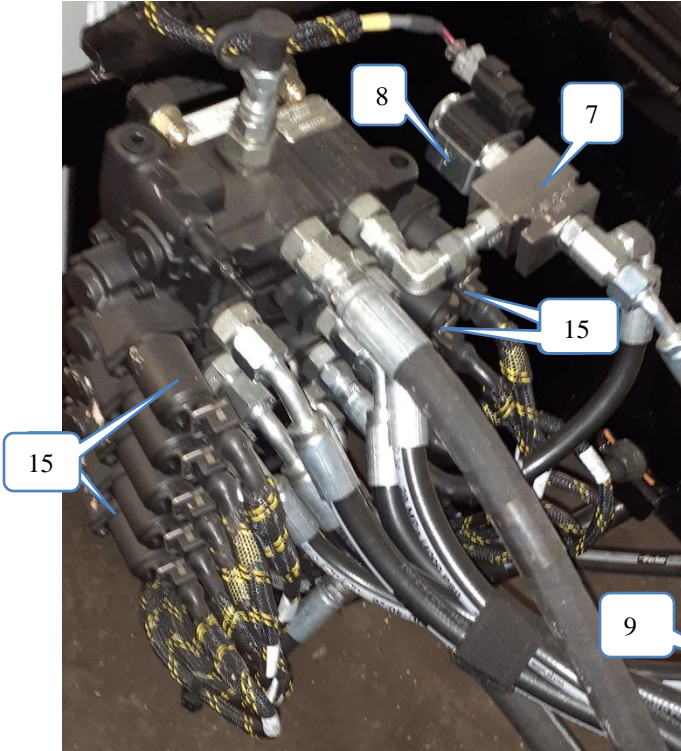
Standard



Short

**Chassis Mounted Valve (Parker P70cf)**

Chassis Mounted Valve, Fittings and Hoses



No.	Qty	Description	Part #
1	1	RAIL A - BULK 5 TEE	A94205
2	1	RAIL B - BULK 6 TEE	A94206
3	1	ARM A - BULK 3	A94207
4	1	ARM B - BULK 4	A94208
5	1	GRAB A - BULK 1	A94209
6	1	GRAB B - GRIP SEL TEE	A94210
7	1	Valve Block	A92011
8	1	Adjustable Relief	A92054
9	1	T/G A - T/G STREET TUBE	A94213
10	1	T/G B - T/G CURB TUBE	A94214
11	1	HOIST B TEE - T2 TEE	A94216
12	1	P70 T3 - TANK	A94215
13	1	P2 - P70	A94242
14	1	P70 to Hoist	A94301
15	10	P70 12V Coil	A92077

Valve Section	Outboard Port Fitting	Inboard Port Fitting
Inlet Section	A93022 (mid)	A93023
Rail Section	A93024	A93024
Lift Arm Section	A93024	A93023
Grabber Section	A93023	A93023
Tailgate Section	A93023	A63046
Hoist Section	Plug	A93030
Outlet Section	NA	A93026

Eclipse Automated Side Loader - ASL

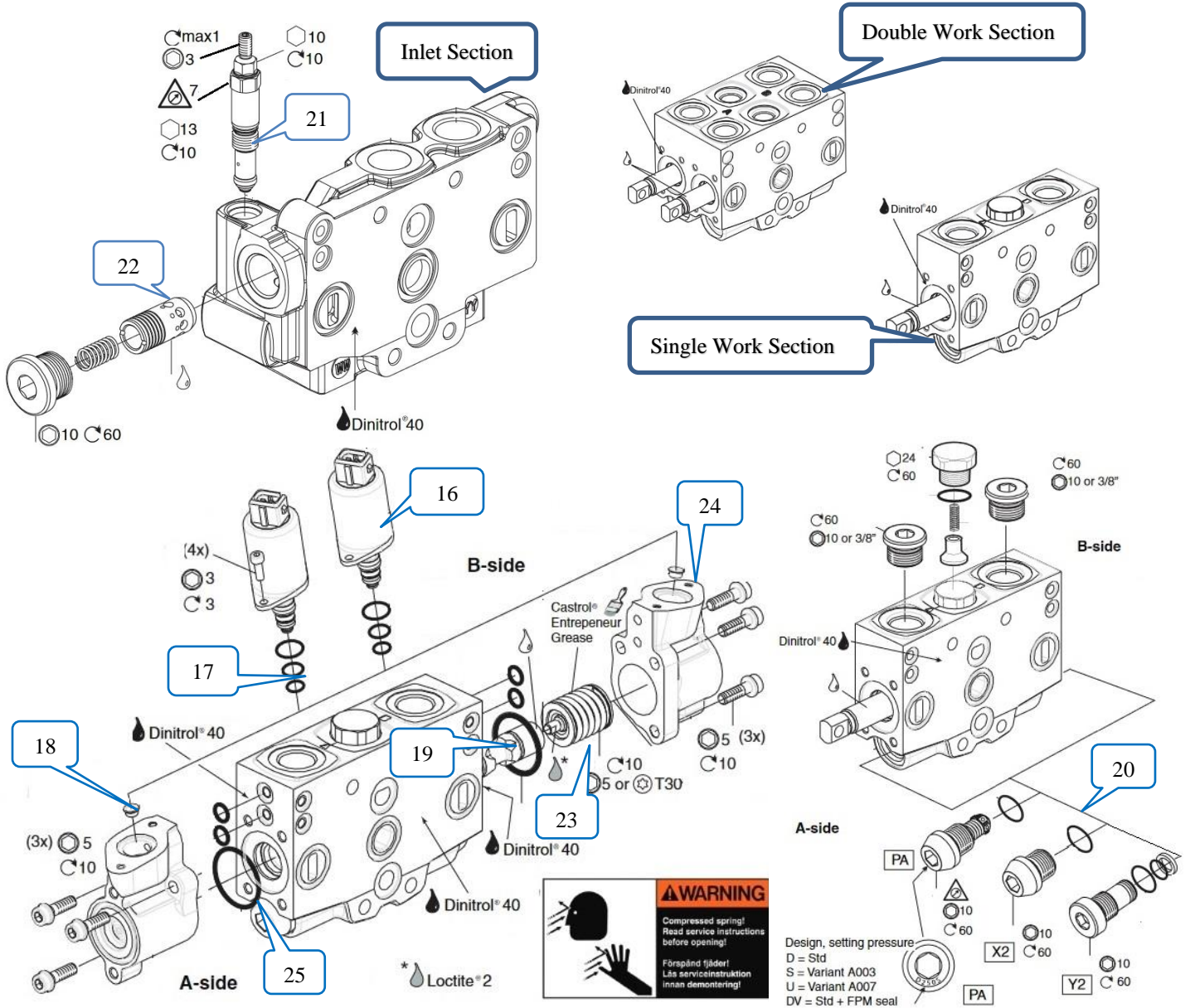
**Chassis Mounted Valve (Parker P70cf)**

Chassis Mounted Valve, Fittings and Hoses

No.	Qty	Description	Part #
16	10	P70 Coil	A92077
17	10	P70 Coil Seal Kit (5pk)	A99011
18	10	Coil Orifice Cap	A92099
19	1	KS Rail Spool	A92023
	1	HO Arm Lift Spool	A92098
	1	MJ Gripper Spool	A92081
	1	MK Tailgate Spool	A92082
	1	LA Body Hoist Spool	A92083
20	1	Port Relief 190 Bar	A92084
	5	Port Relief 140 Bar	A92085
	Opt.	Port Relief 125 Bar	A92043
	3	Port, Full Pressure Y2 Plug	A92031
	1	Port, Y2 Cap	A92090
21	1	Main Relief Adjuster	A92060
22	1	Main Relief Internal	A92076
23	5	Spool Spring	A92079
24	10	Actuator Cap	A92078
25	10	Actuator Seal Kit	A92080
26	1	Pilot Strainer	A92089
27	1	Green Sized Pilot Reducer	A92087
		Red Sized Pilot Reducer	A92088
28	1	Counterpressure Valve	A92073
29	1	Intersection Seal Kit	A92075
30	1	5 Section Tie Rod Kit	A92074

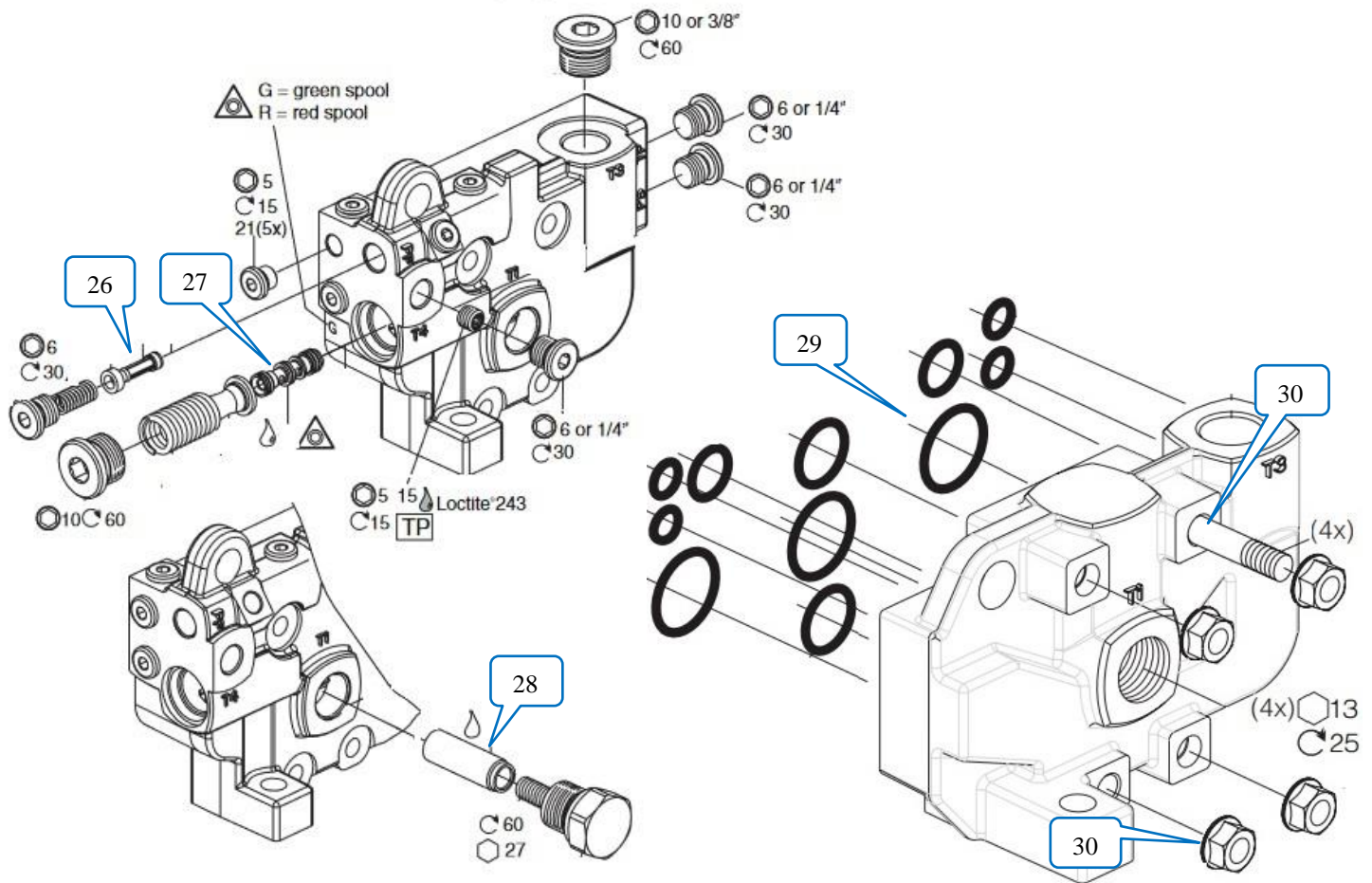
Valve Section	Outboard Port Relief	Spool	Inboard Port Relief
Rail Section	Y2 - A92031	KS Rail Spool - A92023	P190 - A92084
Lift Arm Section	P140 - A92085	HO Arm Lift Spool - A92098	P140 - A92085
Grabber Section	P140 - A92085	MJ Gripper Spool - A92081	P140 - A92085
Tailgate Section	Y2 - A92031	MK Tailgate Spool - A92082	Y2 - A92031
Hoist Section	X2 - A92090	LA Body Hoist Spool - A92083	P140 - A92085

Eclipse Automated Side Loader - ASL  
**Chassis Mounted Valve (Parker P70cf)**  
Chassis Mounted Valve, Fittings and Hoses



**Chassis Mounted Valve (Parker P70cf)**

Chassis Mounted Valve, Fittings and Hoses





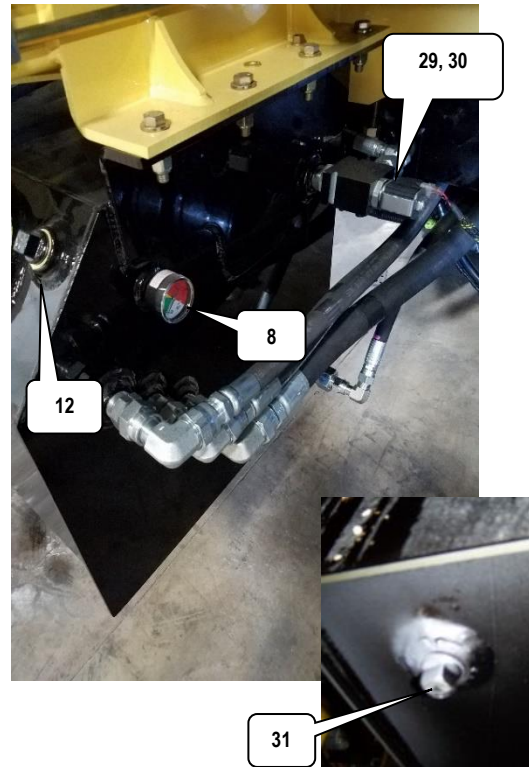
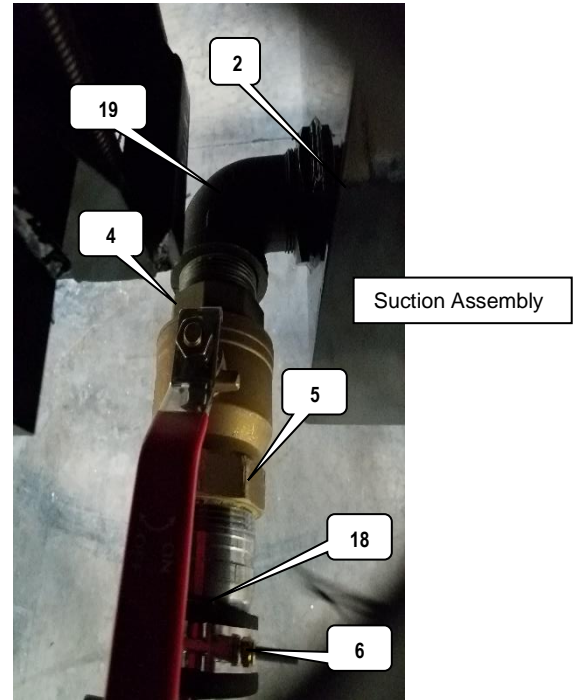
**Eclipse Automated Side Loader - ASL**

**Section 4**

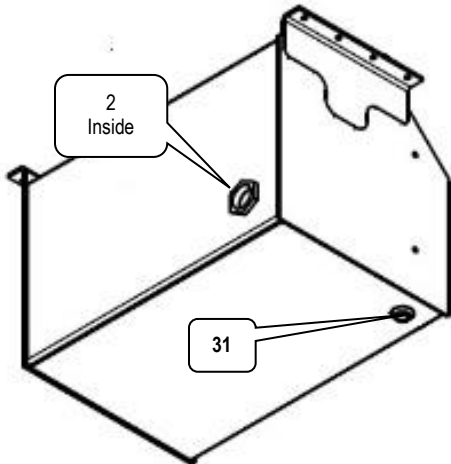
**Oil Tank**

**Oil Tank Assembly, Weldments, and Components**  
**Oil Tank and related hardware**

No.	Qty	Description	Part #
1	1	Weldment, Oil Tank	A17023
		Weldment, Dual Port Oil Tank – see section 1c	A17025
2	1	3" 100 mesh Suction Strainer	A97006
4	1	Valve, Ball 2-1/2"	9932128
5	1	Hose Barb, 2-1/2 NPT	A93096
6	1	Clamp, Hose, T-Bolt, 2-1/2 Suction Hose	A93003
7	2	Element, Filter	A97003
8	1	Gauge, Filter Pressure	A91003
9	2	Cover	A97002
10	2	O-ring	A91002
11	1	Breather	A97007
12	1	Plug, 1" NPT	9933113
13	1	Cover, Clean Out	A17002
14	1	Gasket, Cover	A62007
15	10	Flat Washer, 5/16" SAE	9950102
16	10	Locknut, 5/16-18	9950026
17	1	Gauge, Oil Level	A91027
18	1	Hose, Suction, per Foot	9934317
19	1	2-1/2 NPT Black Pipe 90 ST Elbow	9933172
		2-1/2 NPT Black Pipe 45 ST Elbow	A93119
20	1	Fitting	A93078
21	1	Elbow, Swivel Nut	A93102
22	1	Fitting	A93080
23	1	Elbow, Swivel Nut	A93112
24	1	1" NPT to ORB Adapter	A93110
25	1	Valve Block	A92025
26	1	Adapter 16 ORB to ORFS	A93021
27	1	16-8 Reducing Adapter	A93073
28	1	Elbow, 90 Degree	A93047
29	1	NO Cartridge Valve	A92029
30	1	Coil, 12 V DIN	A92004
31	1	1" Magnetic Drain Plug	9931059



Drain Plug  
(bottom of tank)

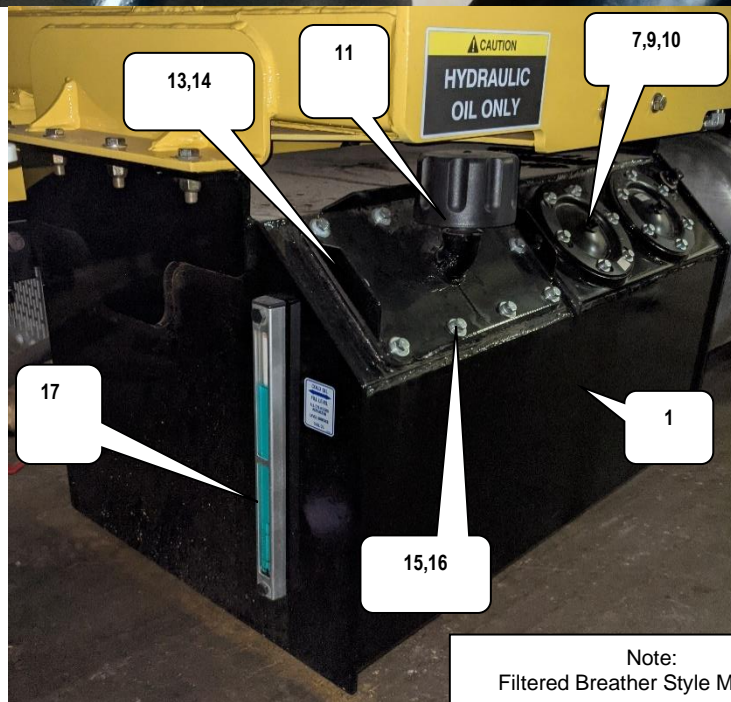
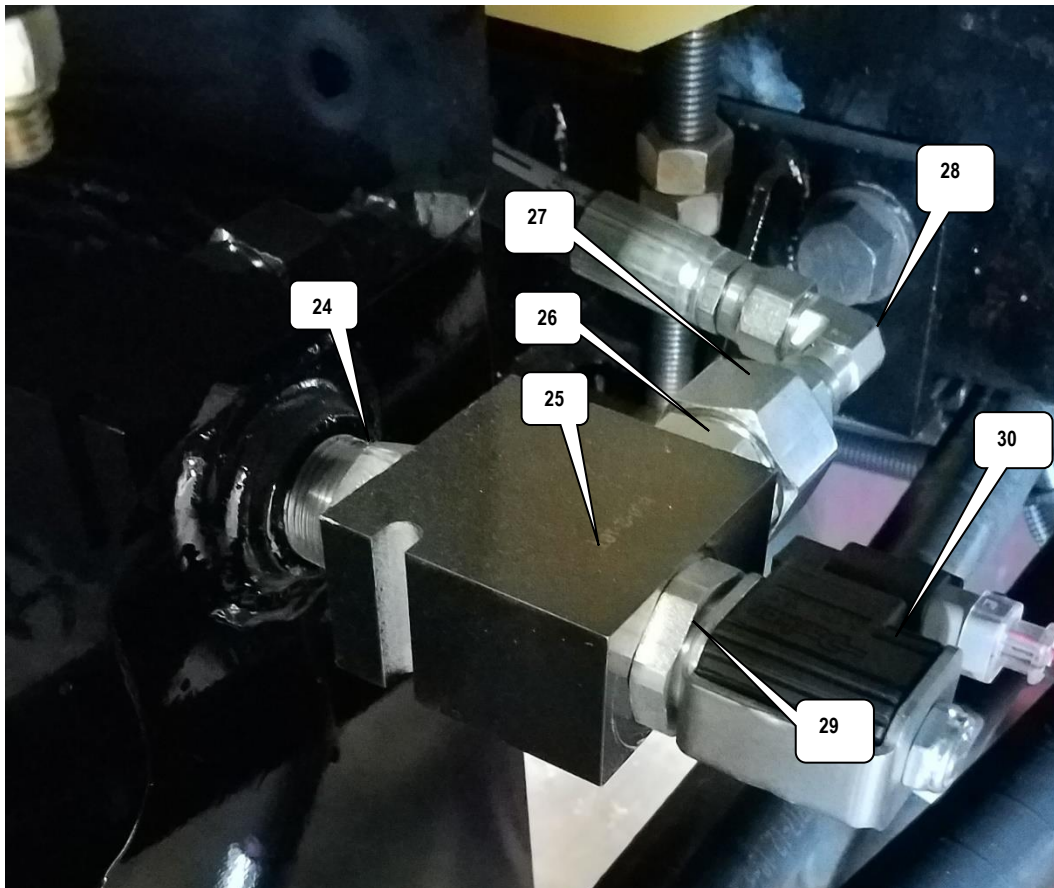


Eclipse Automated Side Loader - ASL

**Oil Tank**

Oil Tank Assembly, Weldments, and Components  
Oil Tank and related hardware

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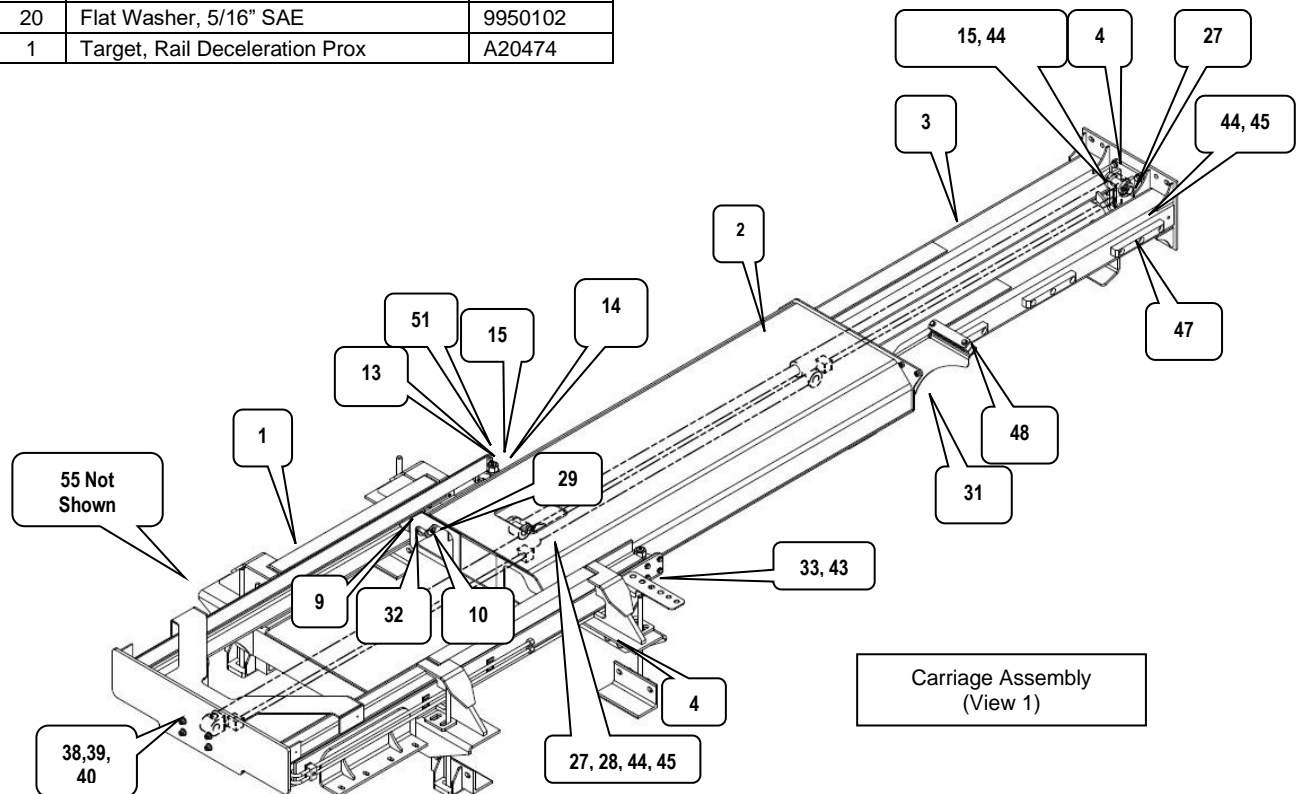
Note:  
Filtered Breather Style May Vary

**Carriage**

**Carriage Weldments, Mechanical and Hydraulic Components**

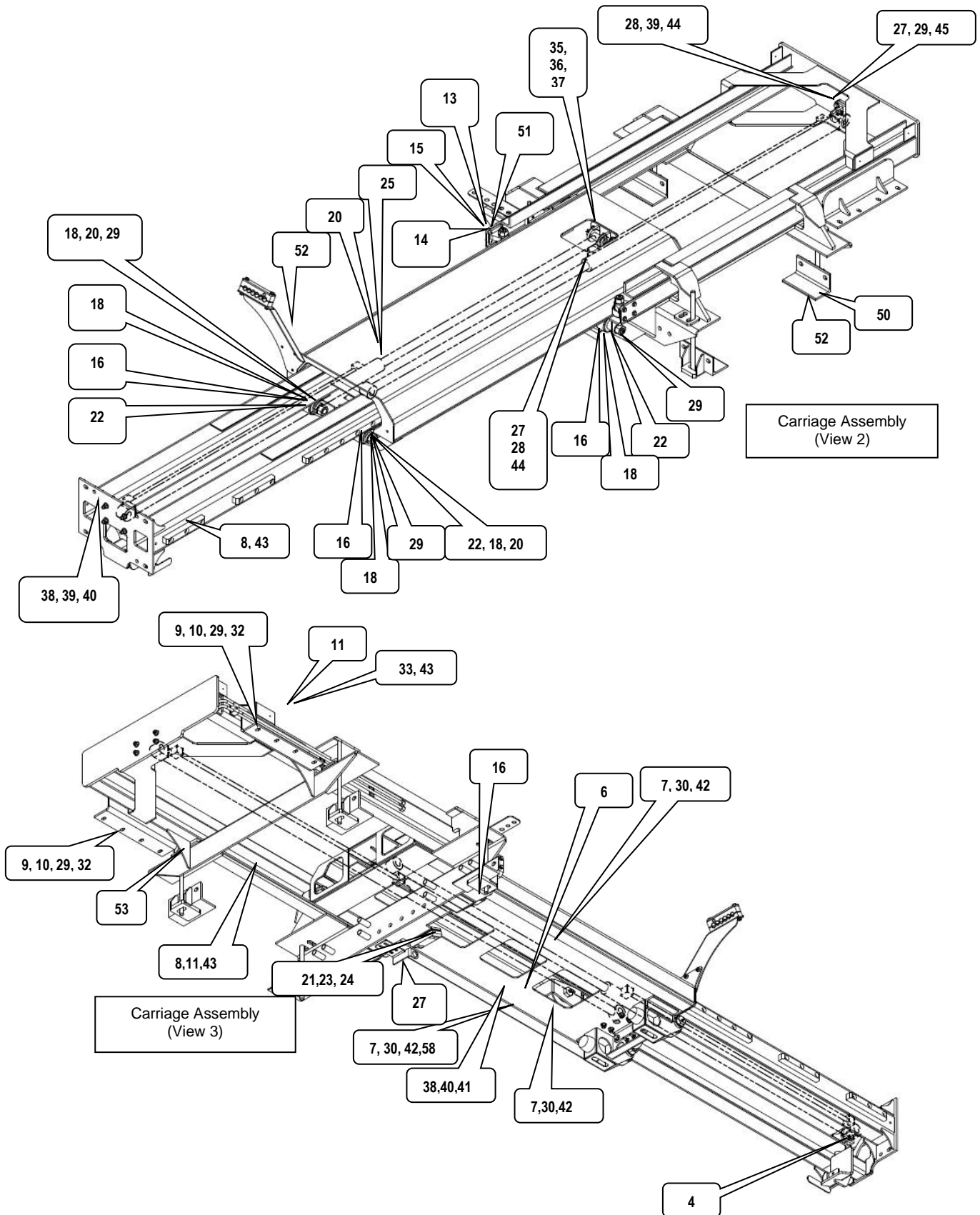
No.	Qty	Description	Part #
1	1	Weldment, Static Frame	A14001
2	1	Weldment, Carriage Box Section	A14004
3	1	Weldment, Carriage Tube Section	A14008
4	1	Bracket, Cylinder, Tube Section, Rod	A14010
5	1	Bracket, Cylinder, Tube Section, Rod	A14011
6	1	Bracket, Cylinder, Box Section, Rod	A14012
7	3	Bumper	A62001
8	22	HHCS, 3/8"-16 x 1.25", GR 5	9950600
9	2	Roller, Track, Stud Type, 3.5"	A61008
10	2	Nut, Hex, 1-3/8-12, GR 8	9950888
11	2	Guide, Plastic, Box Section	A49008
12	2	Bracket, Guide Wheel	A14014
13	2	Roller, Track, Stud Type, 2.5"	A61009
14	2	Lock Washer, 1" SAE, GR 5	9950153
15	2	Nut, Hex, 1"-14, GR 8	9950895
16	6	Roller, Track, Yoke Type, 3.5"	A61010
17	36	Shim, Arbor, .031 x 1-1/8	A50003
18	10	Flat Washer, 1-1/8", SAE	9950111
19	2	Roller Shaft Bolt, 6-1/2"	A63003
20	4	Roller Shaft Bolt, 5-1/2"	A63004
21	4	Spacer, Roller, 6"	A30019
22	4	Nut, Hex, 1-1/8"-7, GR 8	9950890
23	2	Carriage, Roller, 6"	A46010
24	4	Retaining Ring, Internal, 3.5"	A50007
25	2	Nipple, Close-2-1/2" NPT	A93001
26	1	Bracket, Cylinder, Box Section, Base	A14015
27	8	Flat Washer, Hardened, 1" SAE	A50002
28	8	Bushing, Cylinder Mount	A62004
29	8	Grease Fitting, 1/8" NPT	9950276
30	20	Flat Washer, 5/16" SAE	9950102
31	1	Target, Rail Deceleration Prox	A20474

No.	Qty	Description	Part #
32	2	Flat Washer, 1-3/8 SAE	9950113
33	16	HHCS, 3/8-16 x 1"	9950602
34	2	Nut, Hex Jam, 1-1/8-12	9950891
35	4	Flat Washer, 5/8" SAE	9950107
36	2	HHCS, 5/8-11 x 2", GR 5	9950754
37	2	Lock Nut, 5/8-11, GR 5	9950031
38	28	Flat Washer, 1/2"SAE	9950105
39	8	HHCS, 1/2-13 x 2", GR 5	9950705
40	14	Lock Nut, 1/2"-13, GR 5	9950029
41	6	HHCS, 1/2-13 x 1.5", GR 5	9950702
42	6	Lock Nut, 5/16"	9950026
43	34	Flat Washer, 3/8" SAE	9950103
44	4	Carriage Cylinder Pin Assembly	A14024
45	4	Cotter Pin, 3/16 x 1-3/4"	A50032
46	1	Carriage, Hose Hanger	A14019
47	4	Guide, Plastic, Tube Section	A49009
48	2	Guide, Plastic, Tube Section	A49010P
49	8	Spacer, Mounting, Loader	A45007
50	4	Stud, Loader Mount Bracket	A50036
51	2	Grease Fitting, 3/16" Drive Style	A50041
52	4	Bracket, Mount, Loader	A14025
53	2	Shim, Plastic Guide	A20120
54	1	Hanger, Hose, Carriage	A14019
55	1	Guard, Carriage, Street Side	A20187
56	4	Bolt, 1/4-20 x 1", GR 5	9950500
57	4	Flat Washer, 1/4" SAE	9950101
58	AR	Spacer, Rubber Bumper	A30305
59	1	Mount, Rail Deceleration Prox	A20161



### Carriage

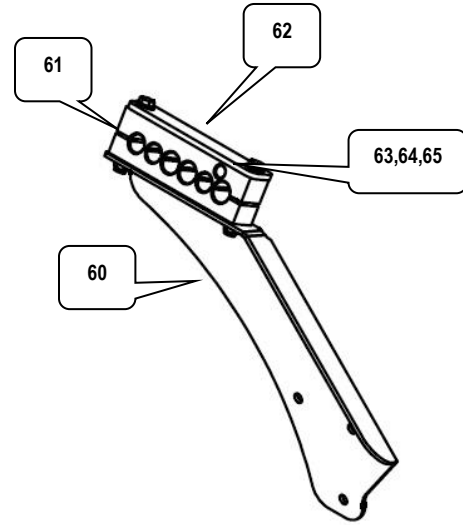
#### Carriage Weldments, Mechanical and Hydraulic Components



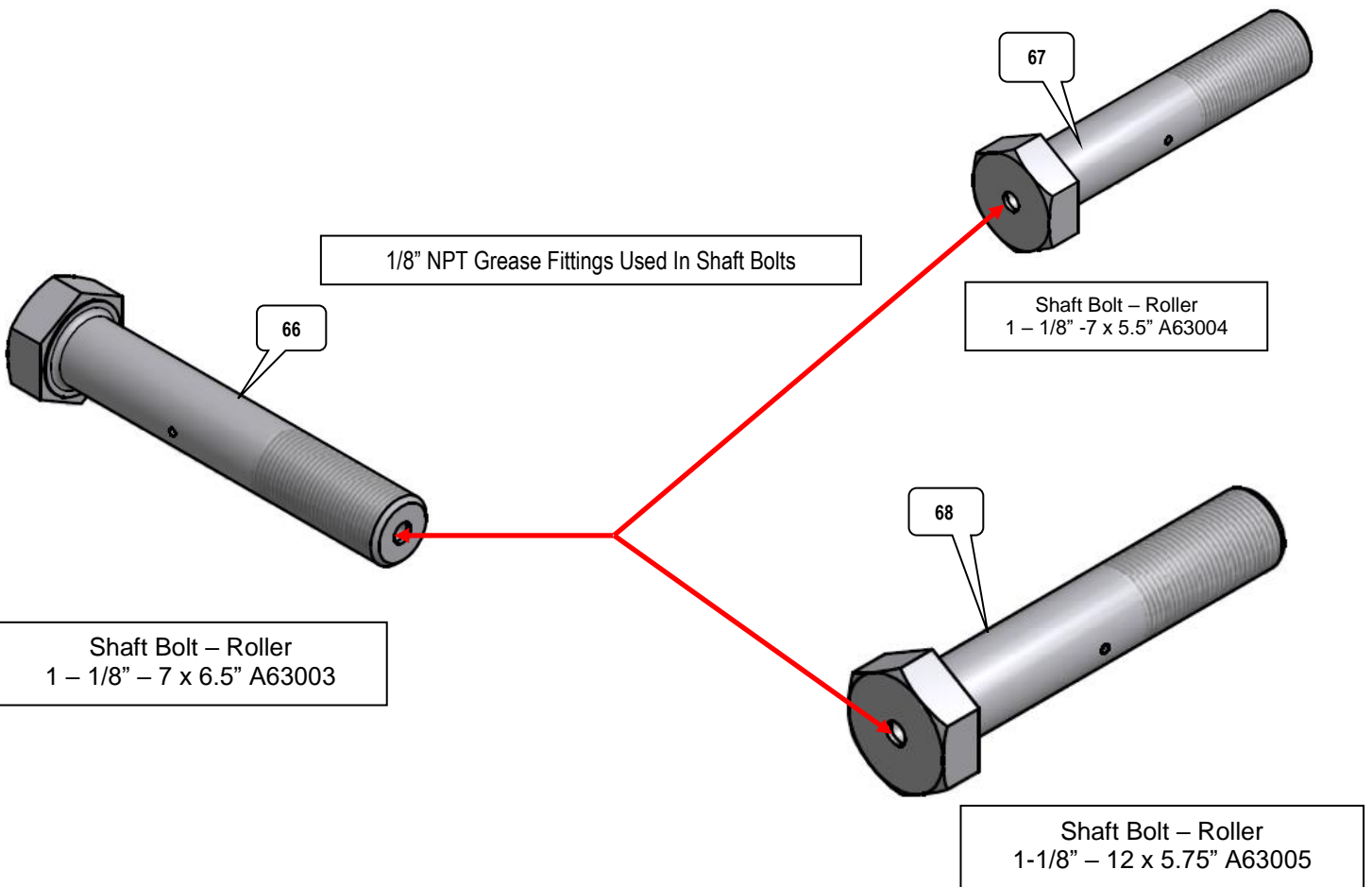
**Carriage**

**Carriage Weldments, Mechanical and Hydraulic Components**

No.	Qty	Description	Part #
60	1	Bolt-on Hose Hanger Bracket	A20463
61	1	Clamp, Hydraulic Hose Clamp	A49011
62	1	Clamp, Support , Hose Hanger	A30357
63	2	HHCS, 3/8-16 x 3", GR5	9950606
64	4	Flat Washer, 3/8 SAE	9950103
65	2	Locknut, 3/8-16, GR 5	9950027
66	4	Roller Shaft Bolt, 6-1/2"	A63003
67	2	Roller Shaft Bolt, 5-1/2"	A63004
68	4	Roller Shaft Bolt, 5-3/4"	A63005



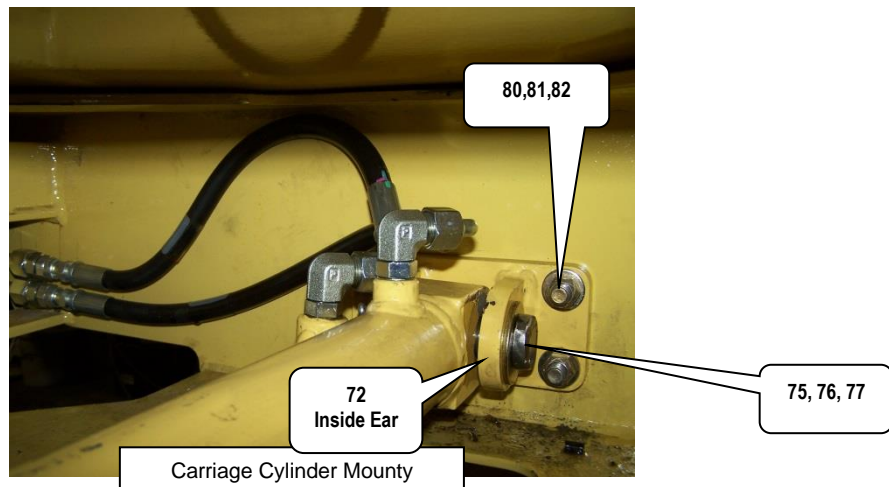
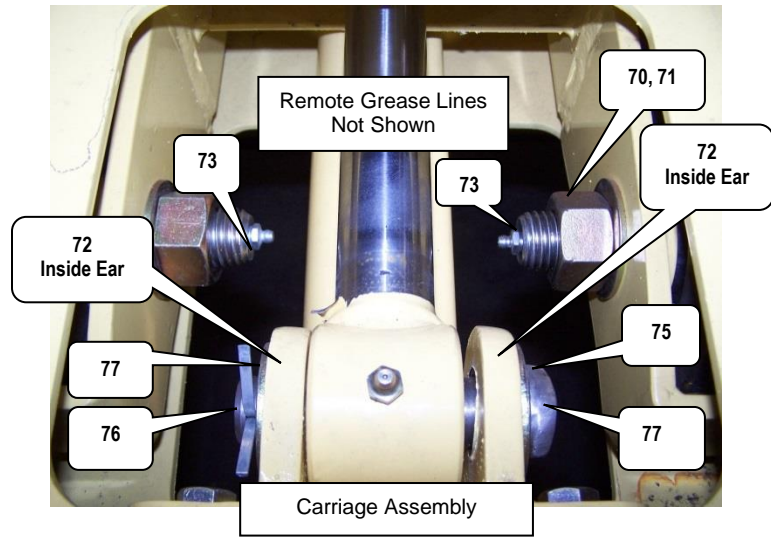
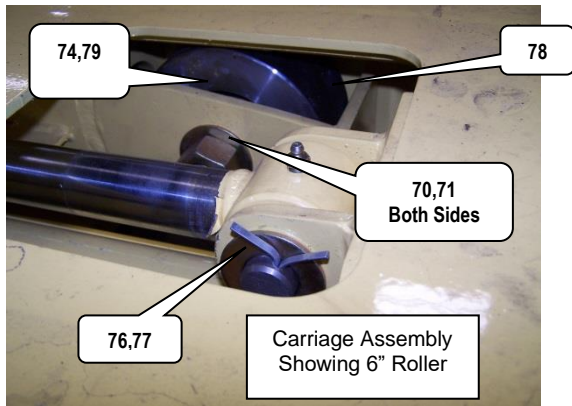
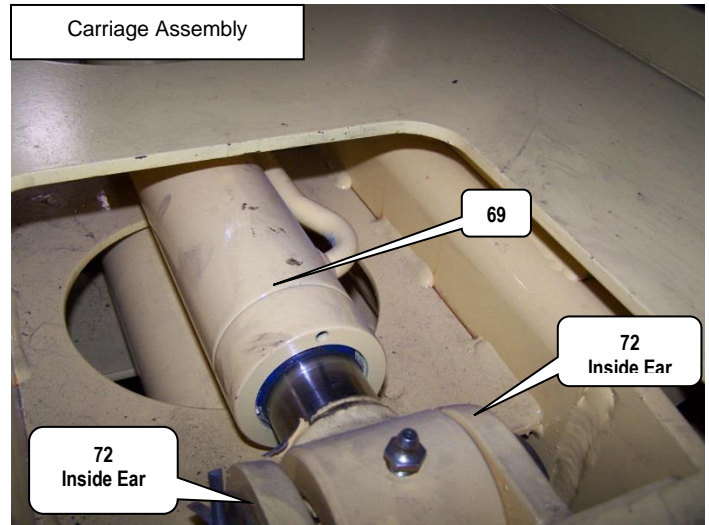
Hose Hanger, Carriage



**Carriage**

Carriage Weldments, Mechanical and Hydraulic Components

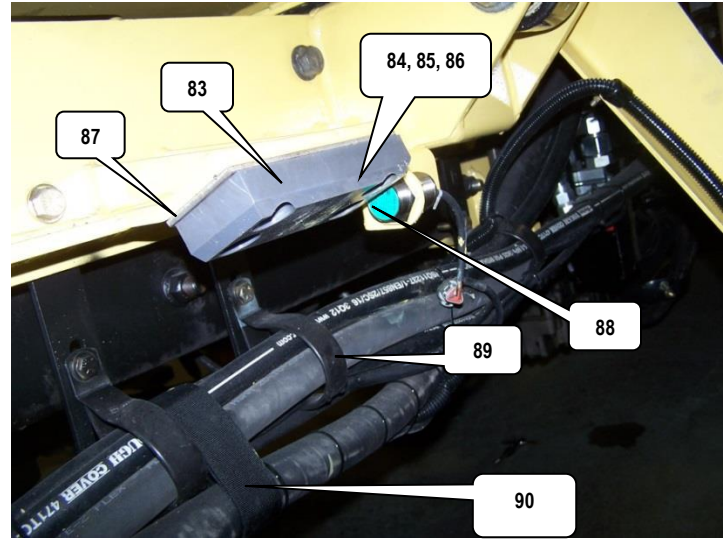
No.	Qty	Description	Part #
69	2	Cylinder	A96018
70	10	Flat Washer, 1-1/8" SAE	9950111
71	4	Hex Nut, 1/1/8-7, GR 5	9950890
72	8	Bushing, Cylinder Mount	A62004
73	2	Roller Shaft Bolt, 6-1/2"	A63003
74	4	Spacer, 6" Roller	A30019
75	4	Pin, Carriage Cylinder, 4"	A14024
76	4	Pin, Cotter, 3/16 x 1.75"	A50032
77	8	Flat Washer, 1" Hardened	A50002
78	2	6" Roller Assembly	A14032
79	4	Retaining Ring, Internal, 3.5"	A50007
80	4	HHCS, 1/2-13 x 2", GR 5	9950705
81	8	Flat Washer, 1/2" SAE	9950105
82	4	Locknut, 1/2-13 GR 5	9950029



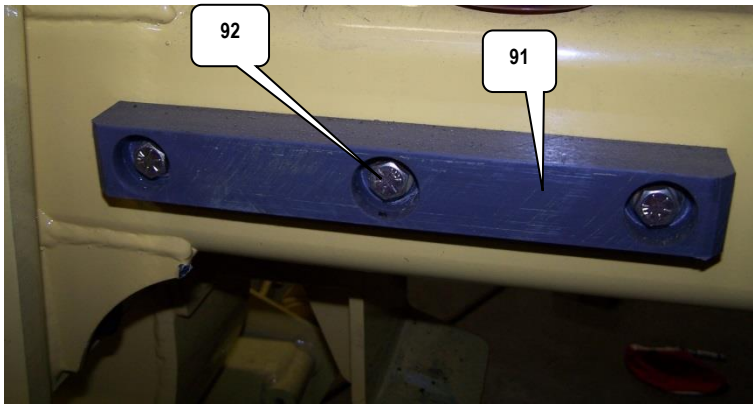
**Carriage**

Carriage Weldments, Mechanical and Hydraulic Components

No.	Qty	Description	Part #
83	1	Guide, Plastic Box Section	A49008
84	4	HHCS, 3/8-16 x 1.25", GR 5	9950600
85	4	Locknut, 3/8-16, GR 5	9950027
86	4	Flat Washer, 3/8 SAE	9950103
87	AR	Shim, Plastic Guide	A20120
88	1	Switch, Prox., Carriage Decelerate	A82010
89	10	Clamp, Hose, 2/5"	9960144
90	8	Hose Cincher, 8" Velcro	9960415
91	4	Guide, Plastic Tube Section	A49009
92	12	HHCS, 3/8-16 x 1", GR 5	9950602



Box Section - Carriage Plastic Guide

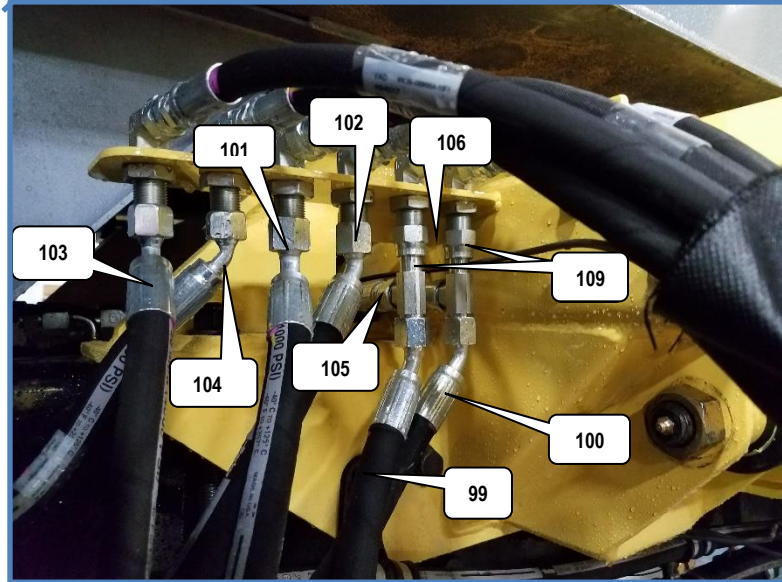
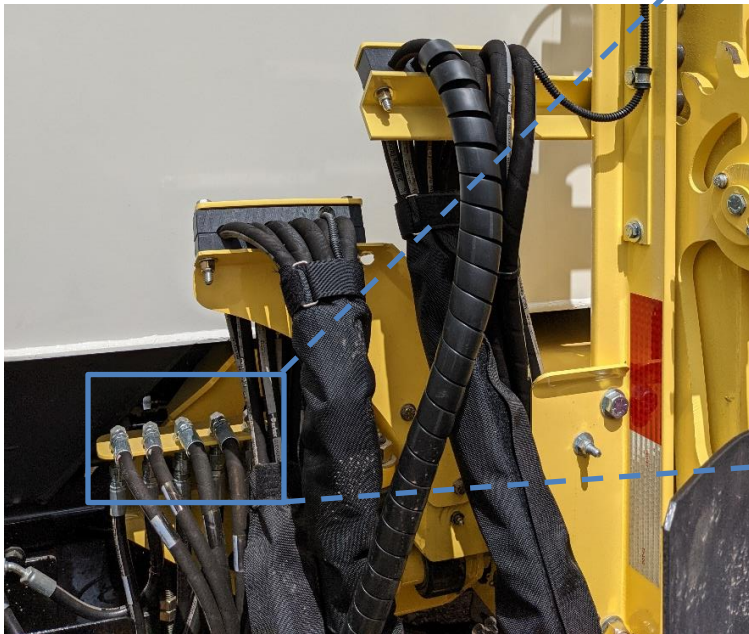
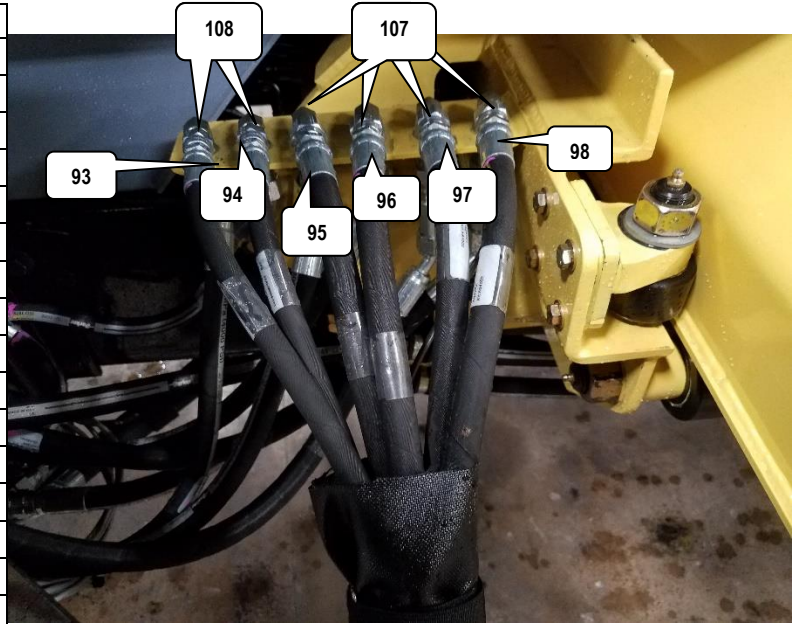


Guide Plastic, Tube Section - A49009

**Carriage**

Carriage Weldments, Mechanical and Hydraulic Components

No.	Qty	Description	Part #
93	1	BULK 1 - GRAB ROD	A94217
94	1	BULK 2 - GRAB BASE	A94218
95	1	BULK 3 - LIFT ROD	A94219
96	1	BULK 4 - LIFT BASE	A94220
97	1	BULK 5 - CAR ROD	A94221
98	1	BULK 6 - CAR BASE	A94222
99	1	RAIL A - BULK 5 TEE	A94205
100	1	RAIL B - BULK 6 TEE	A94206
101	1	ARM A - BULK 3	A94207
102	1	ARM B - BULK 4	A94208
103	1	GRAB A - BULK 1	A94209
104	1	GRIP SEL TEE - BULK 2	A94212
105	1	TOP CAR TUBE - BULK 5 TEE	A94203
106	1	BOT CAR TUBE - BULK 6 TEE	A94204
107	4	#8 Fitting,90 Degree Bulkhead	A93054
108	2	#6 Fitting,90 Degree Bulkhead	A93051
109	2	#8 Swivel Nut Run Tee	A93086

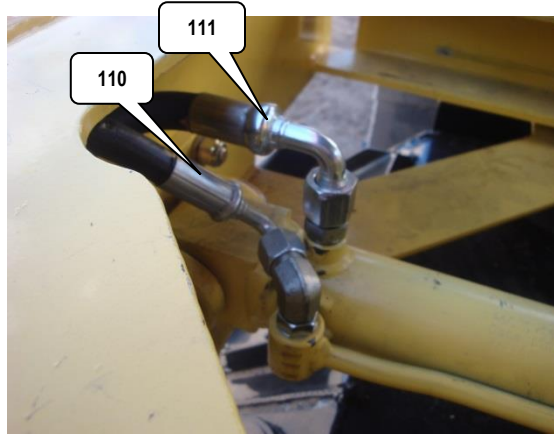
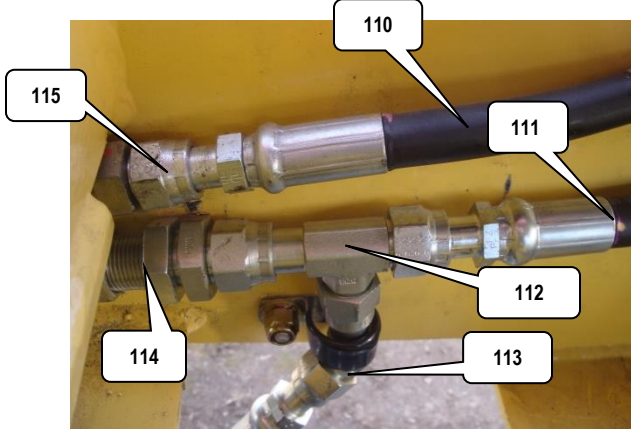




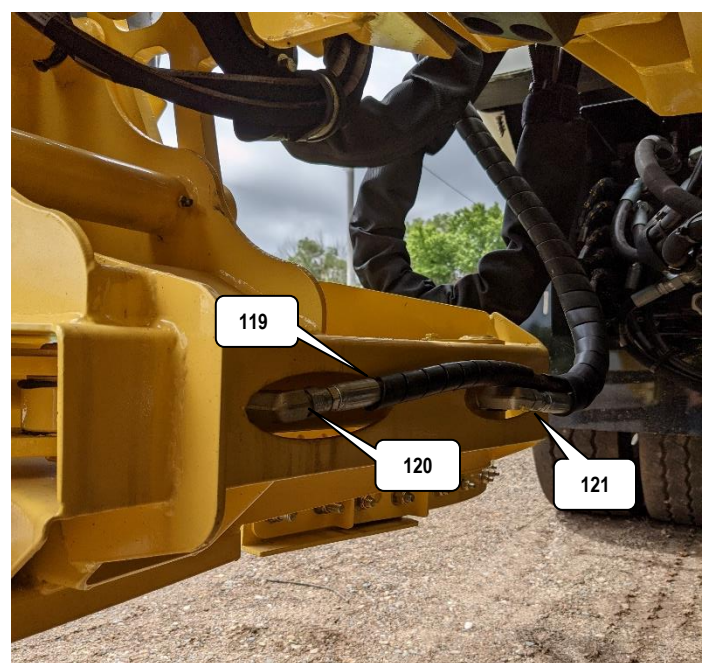
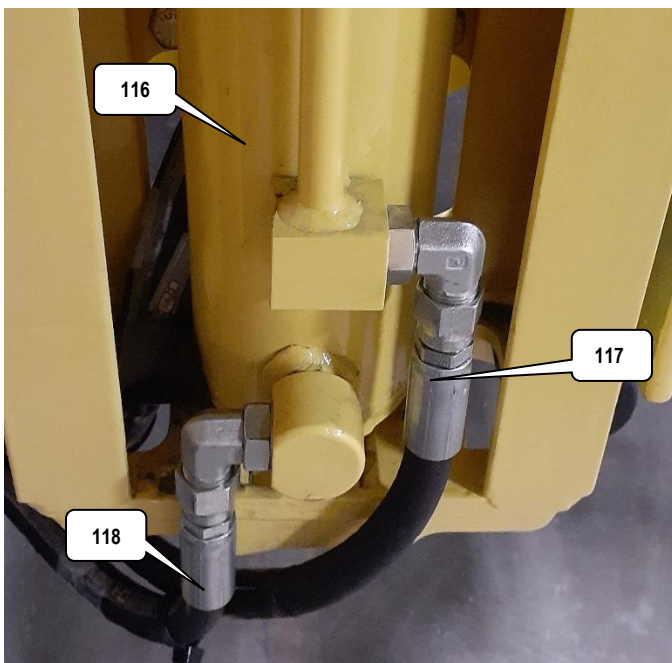
**Carriage**

Carriage Weldments, Mechanical and Hydraulic Components

No.	Qty	Description	Part #
110	1	CAR ROD - TOP CAR TUBE	A94201
111	1	CAR BASE - BOT CAR TUBE TEE	A94202
112	1	#8 Swivel Nut Tee	A93086
113	1	RAIL - TANK	A94238
114	1	Bulkhead Union 90 Fitting	A93054
115	1	8-6 HLO-S Union Fitting	A93052



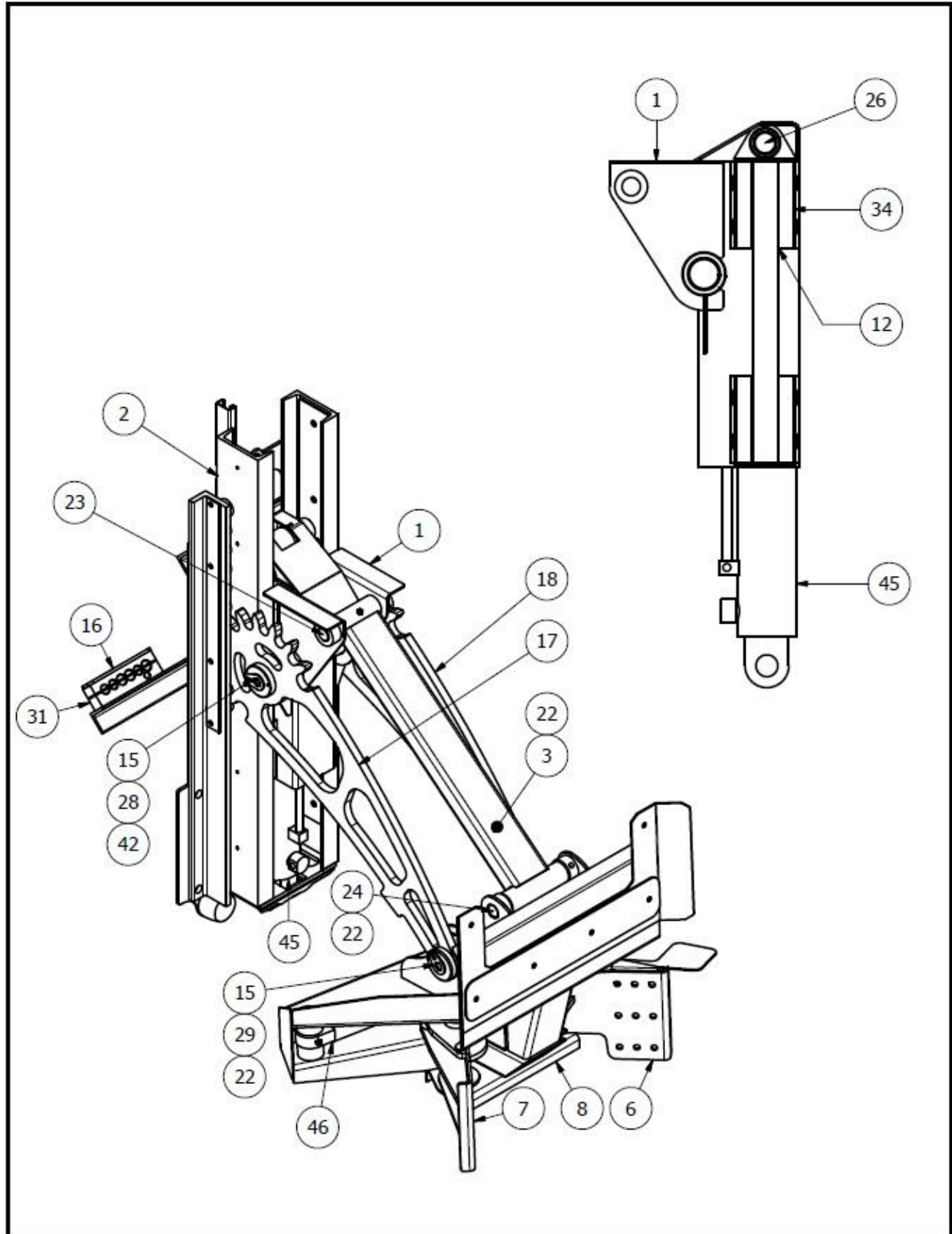
No.	Qty	Description	Part #
116	1	Lift Cylinder	A96016
117	1	BULK 3 - LIFT ROD	A94219
118	1	BULK 4 - LIFT BASE	A94220
119	1	Grab Cylinder	A96020
120	1	GRAB B - GRIP SEL TEE	A94210
121	1	GRAB A - BULK 1	A94209

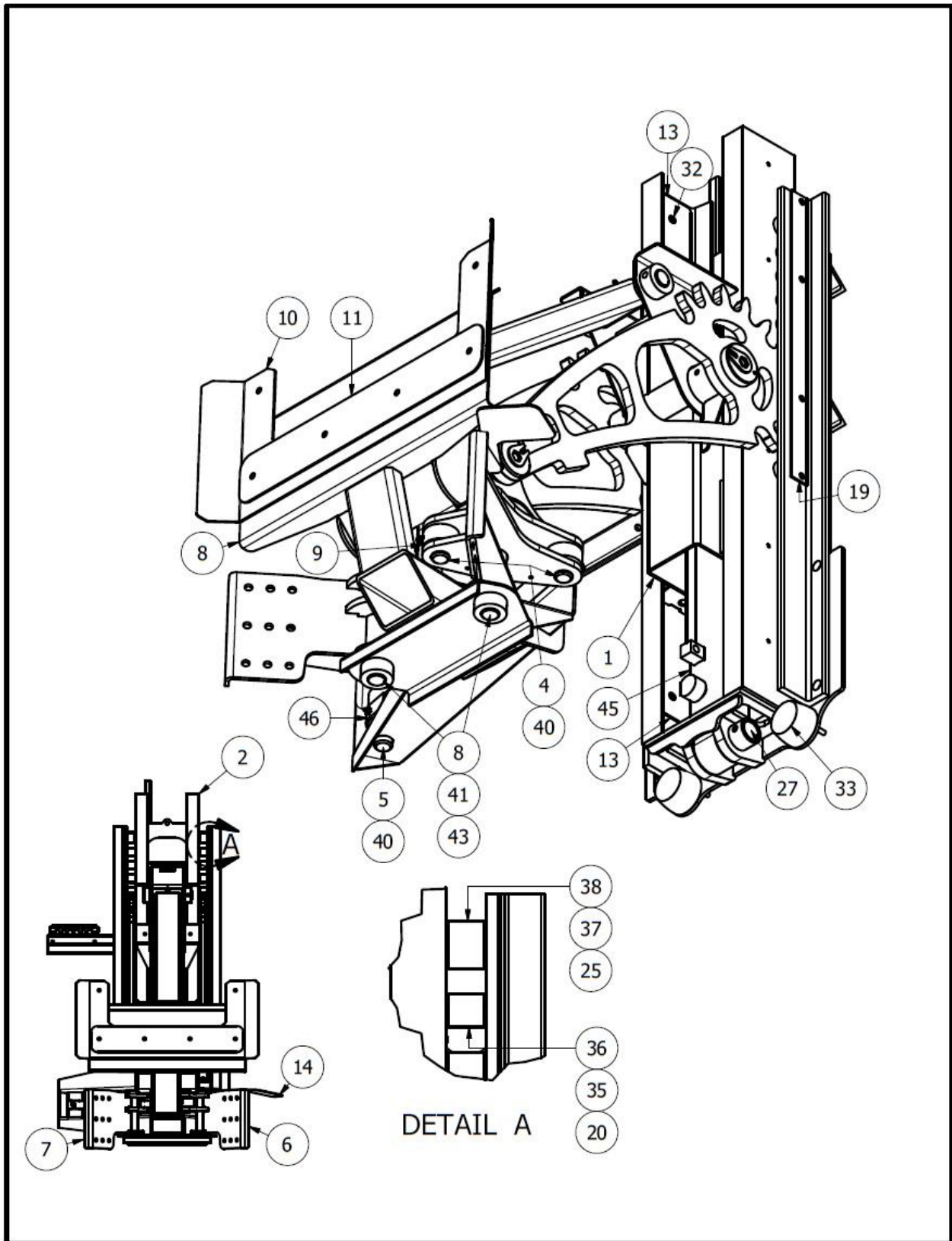


Eclipse Automated Side Loader - ASL  
Sprocket Lift Arm

## Section 6

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	A15020	Sliding Frame
2	1	A15024	Static Frame
3	1	A15032	SQR Control Link, CONNEX
4	3	A16041	Gripper Pin, Short
5	1	A16042	Pin, Grabber Cyl. Base
6	1	A16043	RH GRABBER PIVOT
7	1	A16044	LH GRABBER PIVOT
8	1	A16047	Grabber Frame, CONNEX
9	1	A16048	Grabber Link, CONNEX
10	1	A20339	Spill Chute Backer
11	1	A20340	Spill Chute Face Plate
12	AN	A20347	Shim, Slider Shoe
13	2	A20419	Inner Roller Retainer
14	1	A20468	Loader Stowed Prox Target
15	4	A20563	Lock Collar
16	1	A30357	Hose Block Cap
17	1	A30513	Sprocket Arm, Round Hole
18	1	A30514	Sprocket Arm, "D" Hole
19	2	A44070	Roller Pin Retainer
20	18	A48044	3/4" ROLLER PIN
21	2	A48047	Main Axle Cap
22	1	A48048	Sm. Lift Arm Axle
23	1	A48050	7-1/2" x 1-1/4" PIN
24	1	A48051	9-1/2" x 1-1/4" PIN
25	4	A48053	1-1/4" ROLLER PIN
26	1	A48054	Pin, Cylinder Rod
27	1	A48055	Pin, Lift Cylinder Base
28	1	A48056	Main Sprocket Axle
29	2	A48059	Sm. Axle Cap
30	2	A48064	Pivot Pin, Greasable
31	1	A49011	Hose Block
32	12	A50046	1/4-28 x 0.5 Countersunk
33	2	A62001	Rubber Bumper
34	8	A62044	Slider Shoe
35	18	A62045	7/8 OD Greaseless Bushing
36	18	A62046	Sm. Roller
37	4	A62051	1-3/8 OD Greaseless Bushing
38	4	A62052	Lg. Roller
22	10	A62085	Sm. CONNEX
40	4	A62086	Md. CONNEX w/ groove
41	4	A62088	Grease Seal
42	2	A62104	3" X 2" CONNEX
43	4	A62127	Drawn Cup Needle Bearing
44	1	A63030	Spill Chute, Plastic
45	1	A96019	Lift Cylinder
46	1	A96020	Grabber Cylinder



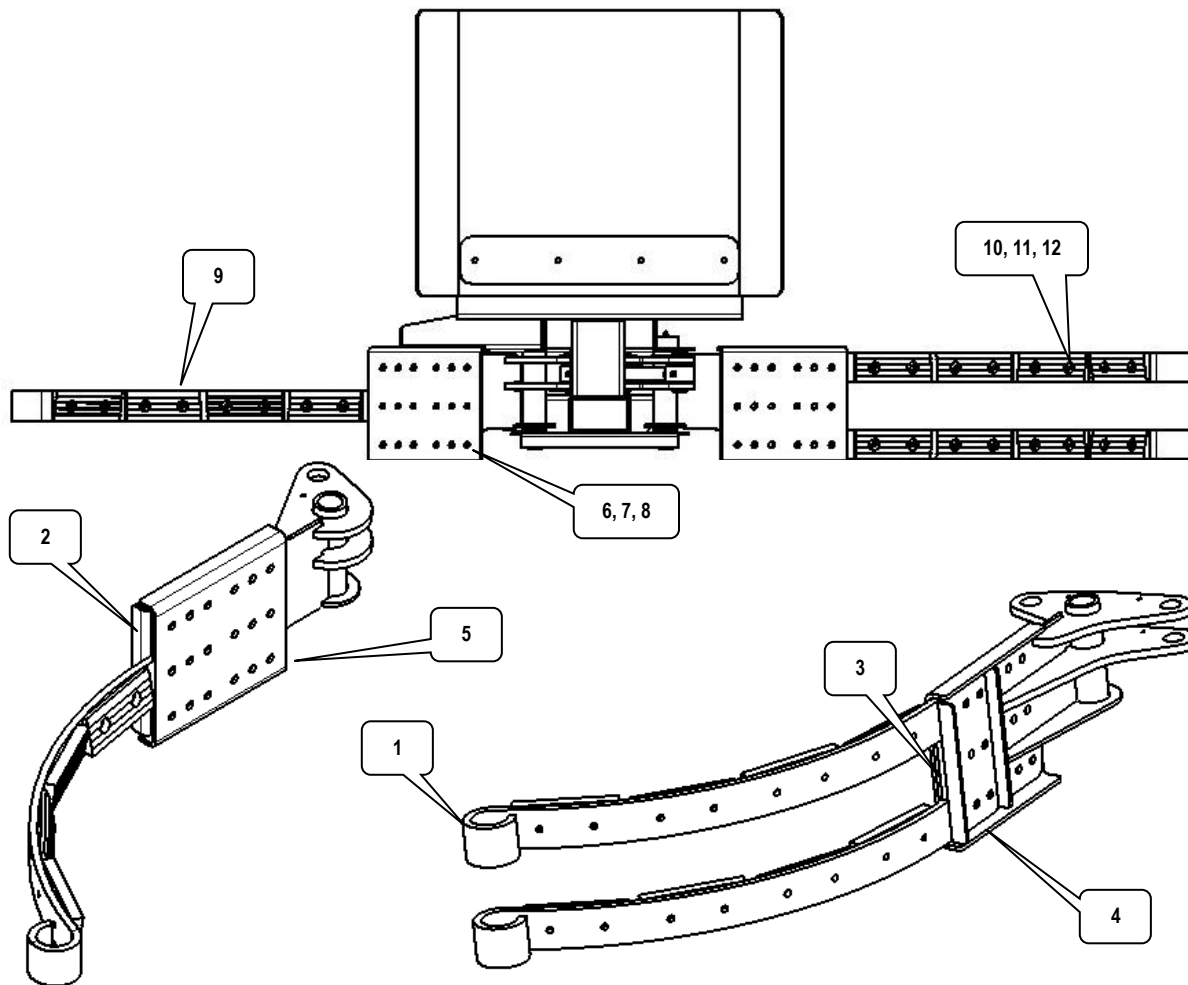


Eclipse Automated Side Loader - ASL

**GRABBER – THREE FINGER**

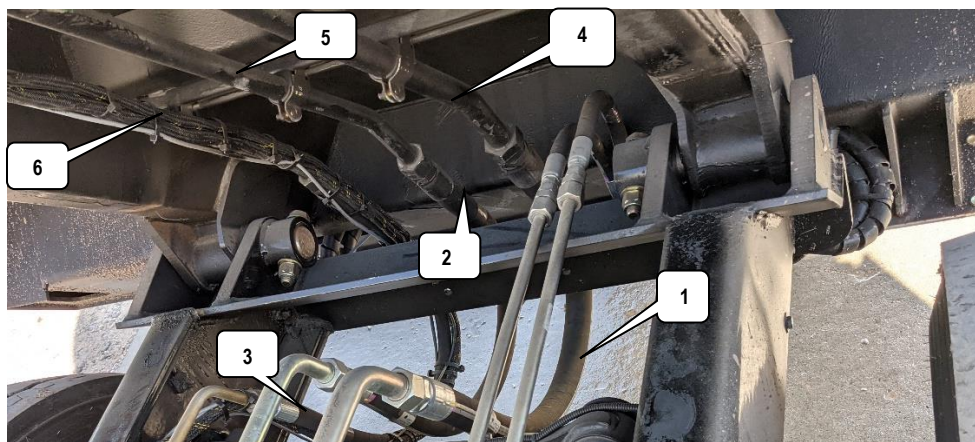
ASL – Automated Side Loader - Grabber with Three Fingers

No.	Qty	Description	Part #
1	3	Finger, Grabber	A30373
2	2	Plate, Support, Single Finger	A44065
3	1	Plate, Support, Dual Finger	A44064
4	2	Plate, Face, Grabber Finger	A30499
5	2	Finger Extender	A30545
6	15	HHCS, 1/2-13 NC x 2.5", GR 5	9950701
7	15	Flat Washer, 1/2" SAE	9950105
8	15	Locknut, 1/2-13 NC, GR 5	9950029
9	12	Block, Gripper	A62018
10	24	HHCS, 3/8-16 x 1.5 NC, GR5	9950603
11	24	Flat Washer, 3/8" SAE	9950103
12	24	Locknut, 3/8-16 NC, GR 5	9950027



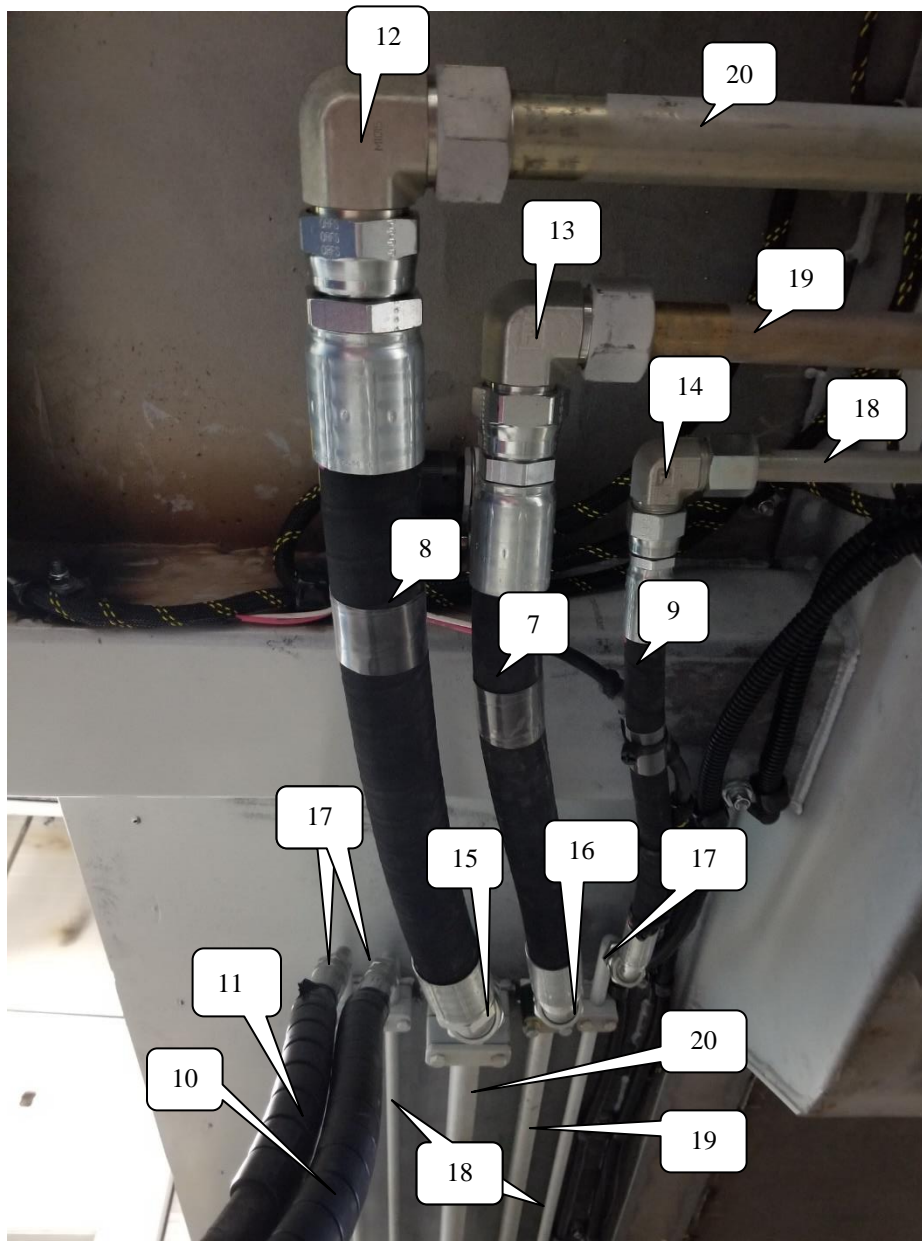
**Body Hydraulics**

No.	Qty	Description	Part #
1	1	Hose, TUBE 2 - RET	A94224
2	1	Hose, TUBE 2 - PRES	A94223
3	1	Hose, TUBE 2 - PILOT	A94225
4	1	Tube, Under Body 1 1/4"	A90049/A90009/A90029 (Short / Std. / Long)
5	1	Tube, Under Body 1"	A90048/A90008/A90028 (Short / Std. / Long)
6	1	Tube, Under Body 5/8"	A90046/A90006/A90026 (Short / Std. / Long)



No.	Qty	Description	Part #
7	1	Pressure Hose	A94069
8	1	Return Hose	A94070
9	1	Pilot Drain Hose	A94063
10	1	Crusher A Hose	A94245
11	1	Crusher B Hose	A93076
12	1	#20 ORF Elbow	A93075
13	1	#16 ORF Elbow	A93072
14	1	#10 ORF Elbow	A93070
15	1	#20 ORF Union	A94070
16	1	#16 ORF Union	A94063
17	3	#10 ORF Union	A94064

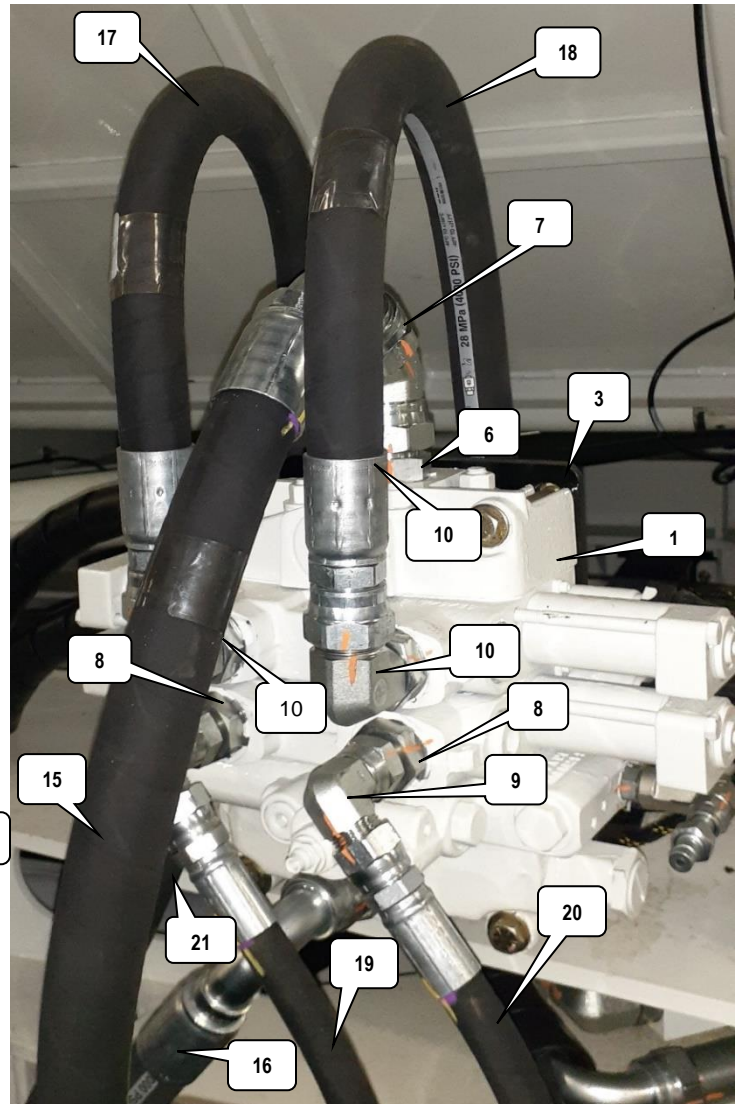
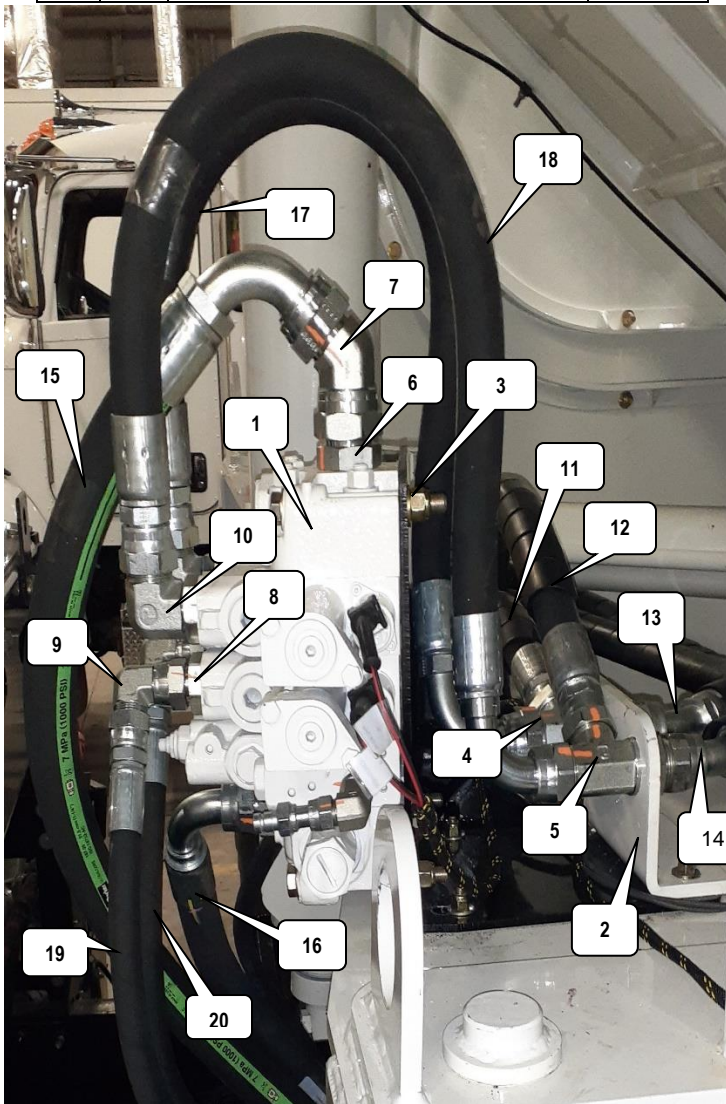
No.	Qty	Description	Part #
18	1	5/8" Body Tube	A90006
19	1	1" Body Tube	A90008
20	1	1 1/4" Body Tube	A90009



**Eclipse Automated Side Loader - ASL  
VG35eh**

No.	Qty	Description	Part #
1	1	VG35EH Valve	A92002
2	1	Packer Hose Bulkhead Bracket	A30302
3	1	VG35 Vertical Mount	A30593
4	1	#20 Bulkhead Tee	A93122
5	1	#16 Bulkhead Tee	A93121
6	2	#20 JIC ORB Union	9933028
7	1	#20 JIC 45	9933251
8	1	#16 ORB JIC Union	9933917
9	2	#16 JIC 90	9933065
10	2	#16 ORB to JIC Elbow	9933039
11	1	Bulkhead to Bulkhead Base Hose	A94244
12	1	Bulkhead to Bulkhead Rod Hose	A94245
13	1	Curb Cyl Base Hose	A94059
14	1	Curb Cyl Rod Hose	A94058
15	1	Pressure Hose	A94278
16	1	Return Hose	A94277

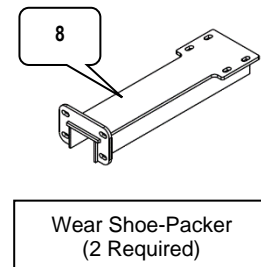
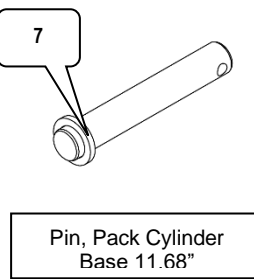
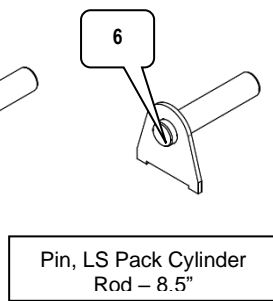
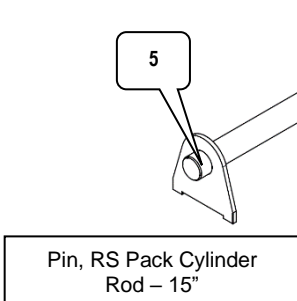
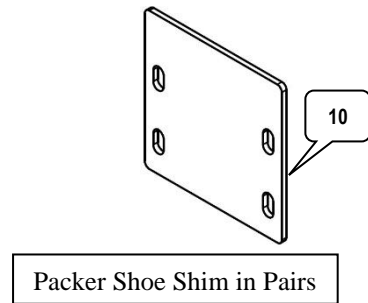
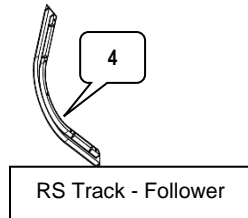
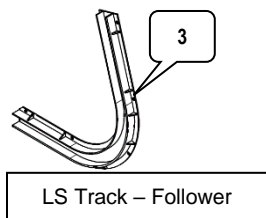
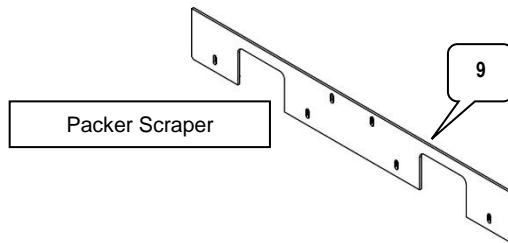
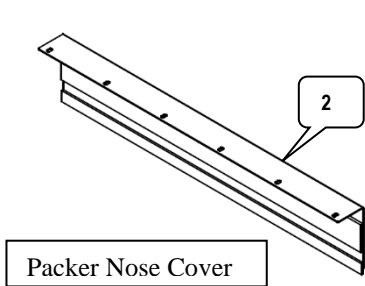
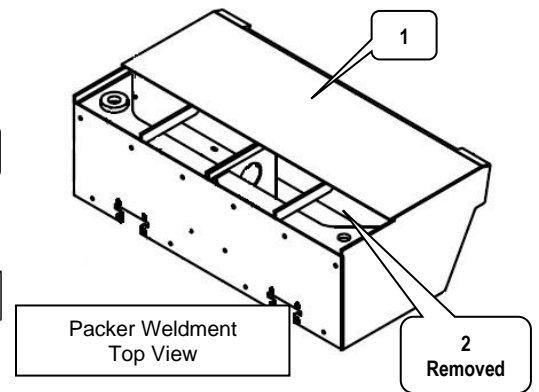
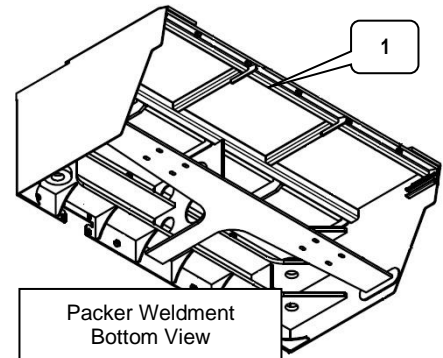
No.	Qty	Description	Part #
17	1	Packer Valve Base to Bulk Tee Hose	A94276
18	1	Packer Valve Rod to Bulk Tee Hose	A94298
19	1	Crusher Base Valve Hose	A94279
20	1	Crusher Rod Valve Hose	A94280
21	1	Pilot Drain Hose	A94286





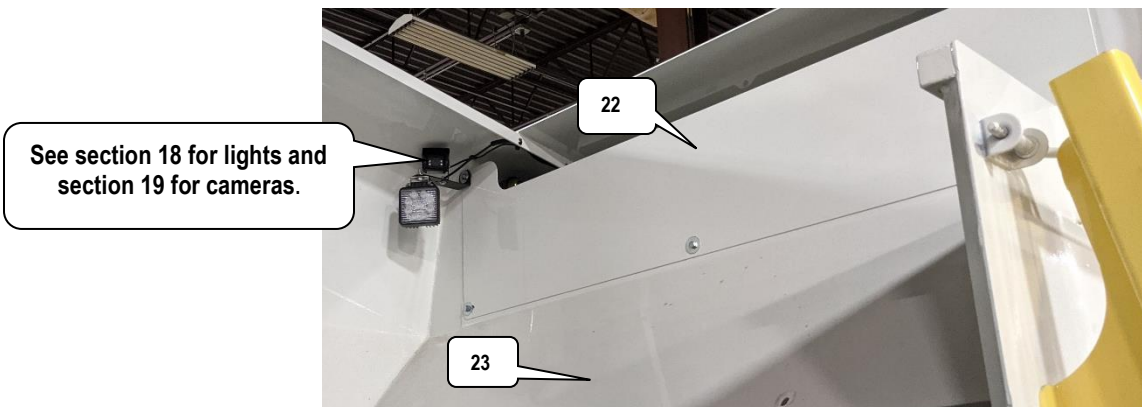
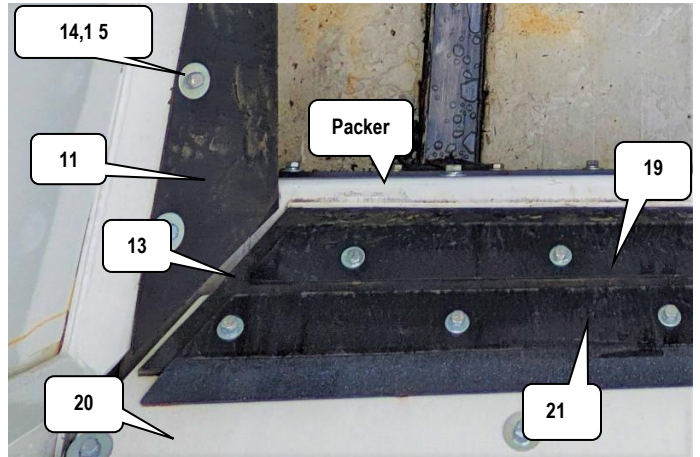
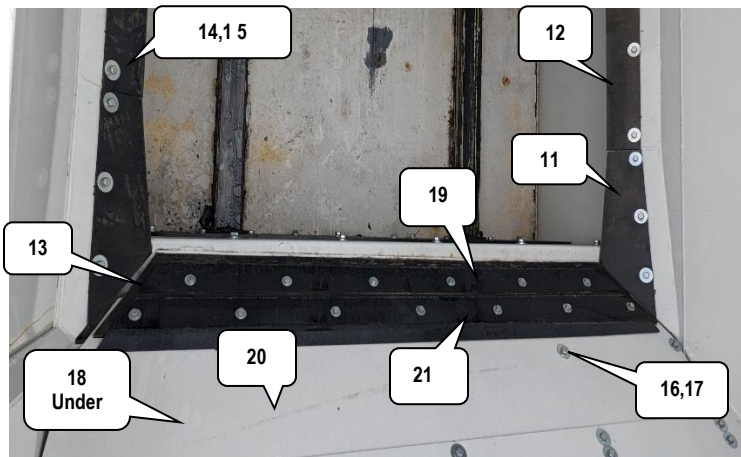
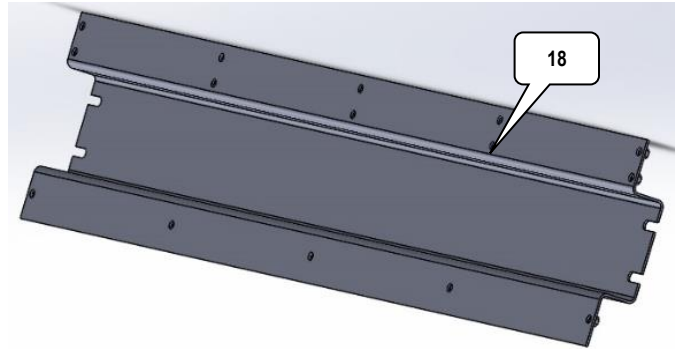
Eclipse Automated Side Loader - ASL  
**Packer and Follower**

No.	Qty	Description	Part #
1	1	Weldment, Packer	A13003
2	1	Cover, Packer Nose	A13013
3	1	Track, Left Side Follower	A13004
4	1	Track, Right Side Follower	A13006
5	1	Pin, RS Pack Cylinder-15"	A13012
6	1	Pin, LS Pack Cylinder-8.5"	A13011
7	2	Pin, Pack Cylinder Base-11.68"	A13010
8	2	Shoe, Wear, Packer	A13002
9	1	Packer Scraper	A30539
10	AN	Packer Shoe Shim	A30542



**Eclipse Automated Side Loader - ASL  
Packer and Follower**

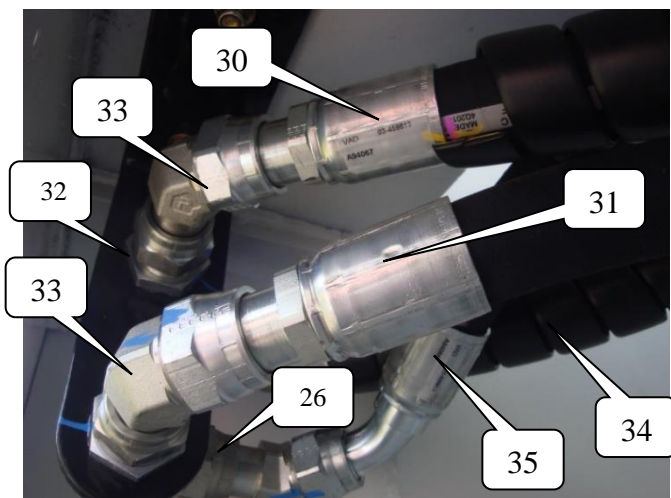
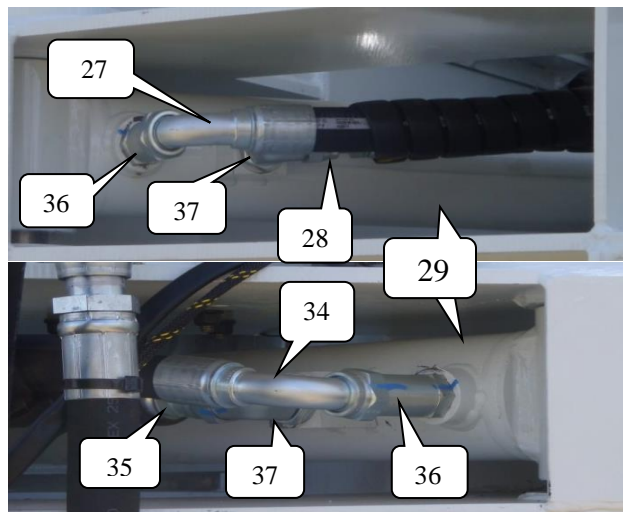
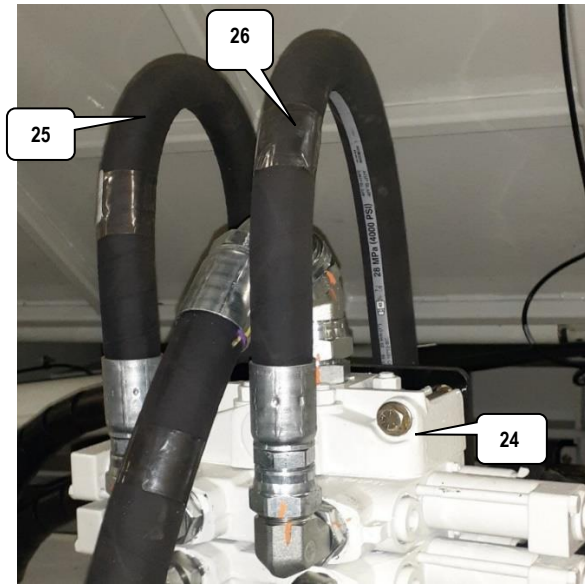
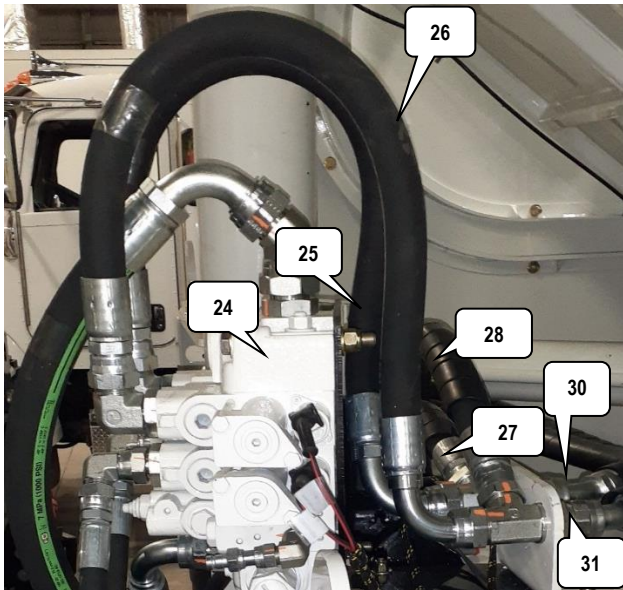
No.	Qty	Description	Part #
11	2	Wiper, Angled Hopper	A63006
12	2	Wiper, Straight Hopper	A63007
13	1	Wiper, Front, Hopper	A63009
14	20	Washers, Fender	9950120
15	20	HHCS, 3/8-16 x 1.25", GR 5	9950600
16	15	Bolt, Flange, 3/8-16 NC, GR 5	9950069
17	15	Hex Nut, Flange, 3/8-16 NC, GR 5	A50035
18	1	Crossing Channel	A11022
19	2	Reinforcement Plate	A20381
20	1	Hopper Plate	A20183
21	1	Rubber Wiper Cap	A20381
22	1	Forward Upper Hopper Panel	A20615
23	1	Forward Lower Hopper Panel	A20614



**Eclipse Automated Side Loader - ASL  
Packer and Follower**

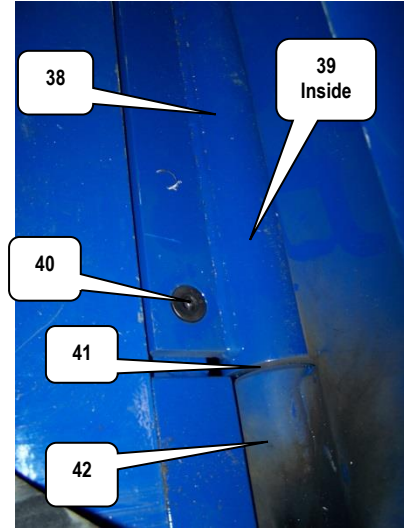
No.	Qty	Description	Part #
24	1	VG35EH Valve	A92002
25	1	Packer Valve Base to Bulk Tee Hose	A94276
26	1	Packer Valve Rod to Bulk Tee Hose	A94298
27	1	Curb Cylinder Base Hose	A94063
28	1	Curb Cylinder Rod Hose	A94064
29	1	Cylinder, Pack	A96004
30	1	Bulkhead to Bulkhead Base Hose	A94067
31	1	Bulkhead to Bulkhead Rod Hose	A94068

32	2	Elbow, Bulkhead Union	A93076
33	2	Elbow, Bulkhead Swivel Nut, 45 Degree	A93077
34	1	Driver Cylinder Base Hose	A94065
35	1	Driver Cylinder Rod Hose	A94066
36	2	Long Union	9933385
37	2	Short Union	9933026

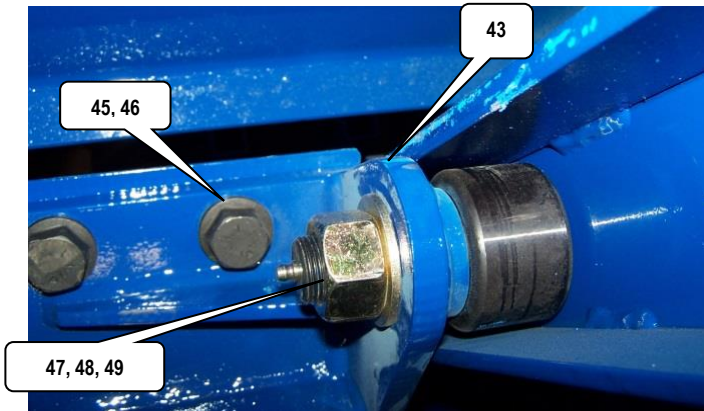


**Eclipse Automated Side Loader - ASL  
Packer and Follower**

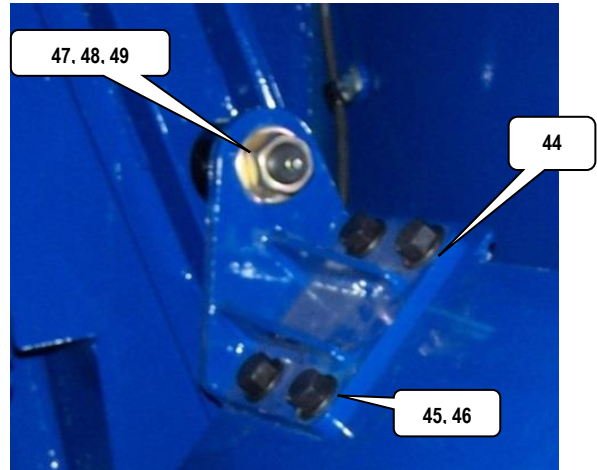
No.	Qty	Description	Part #
38	1	Follower Hinge with 5/8" Bolts	A13019
39	2	Clearanced Bushing	A63042
40	2	5/8"-11 x 2" HEXDRIVE BLK	A50054
41	1	Pin, Hinge	A48025
42	1	Follower Weldment	A13006
43	1	Roller Weldment, RS	A13007
44	1	Roller Weldment, LS	A13008
45	8	Bolt, Flange, 5/8-11 x 2" NC, GR 8	9950763
46	8	Nut, Flange, 5/8-11 NC, GR 8	9950049
47	2	Roller, Cam, Sealed	A61009
48	2	Lock Washer, Helical, Zinc, 1" SAE	9950896
49	2	Hex Nut, 1"-12 UNF, GR 8	9950895
50	1	Packer Grease Bracket	A13016
51	1	RH Remote Grease Bracket	A13015
52	6	1" Hard Flat Washer	A50002
53	2	1/4" Cotter Pin	9950211



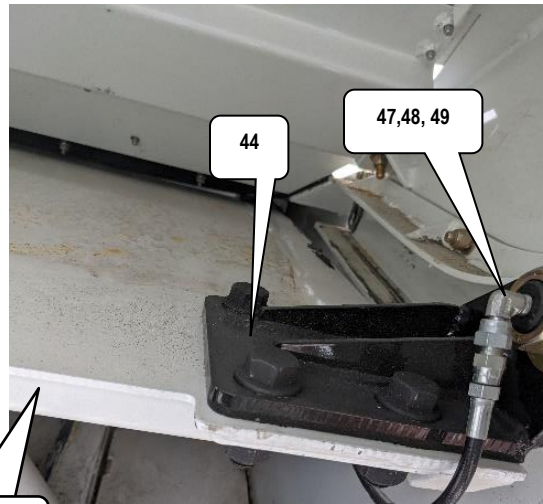
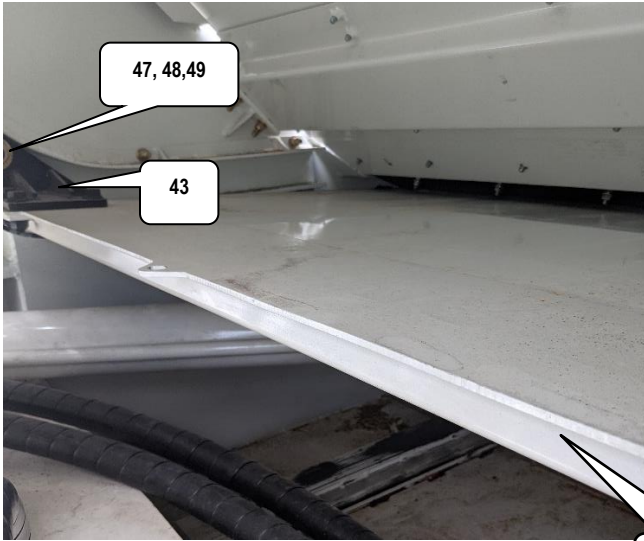
Follower Panel Hinge Assembly



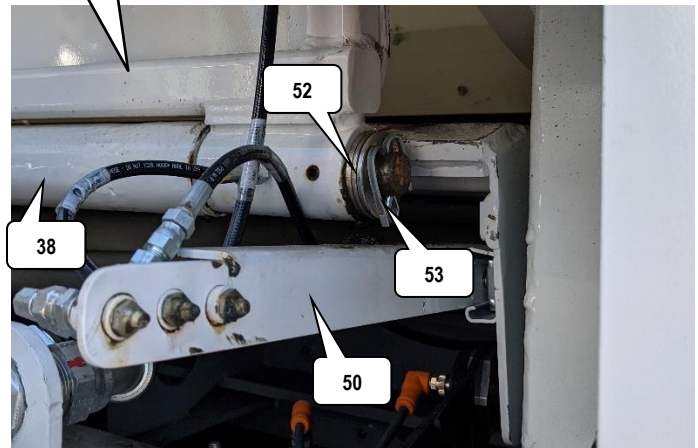
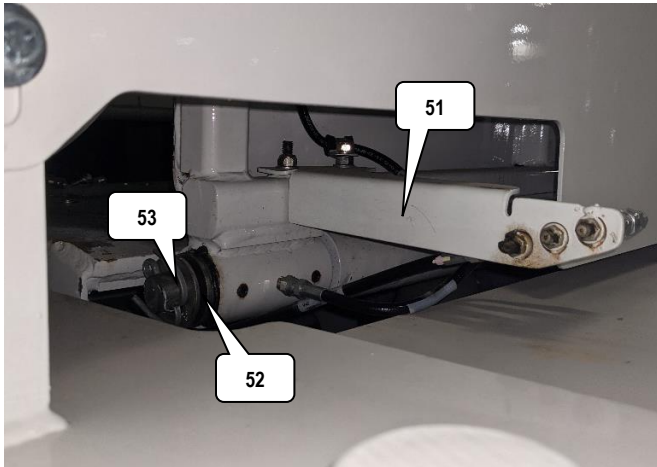
Roller Assembly Right Side  
Follower Panel  
Remote Grease Line Not Shown



Roller Assembly Left Side  
Follower Panel  
Remote Grease Line Not Shown



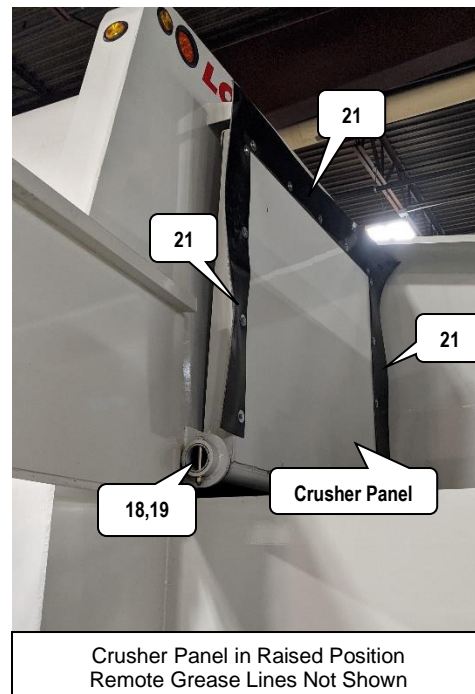
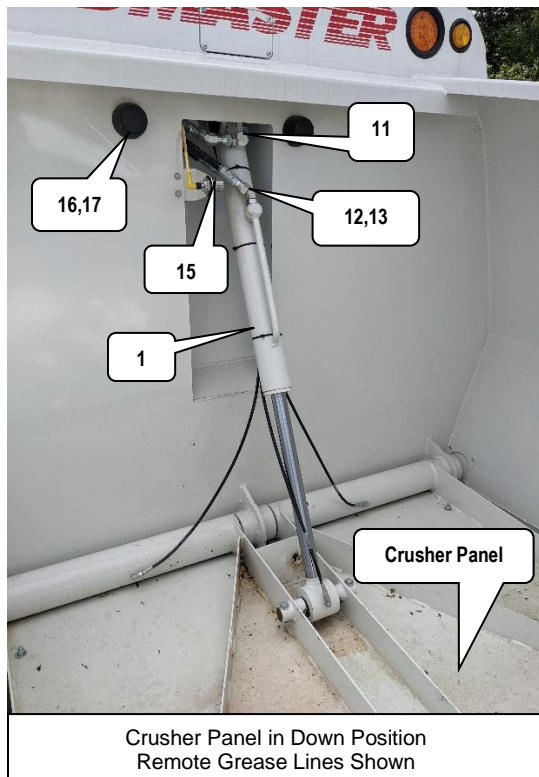
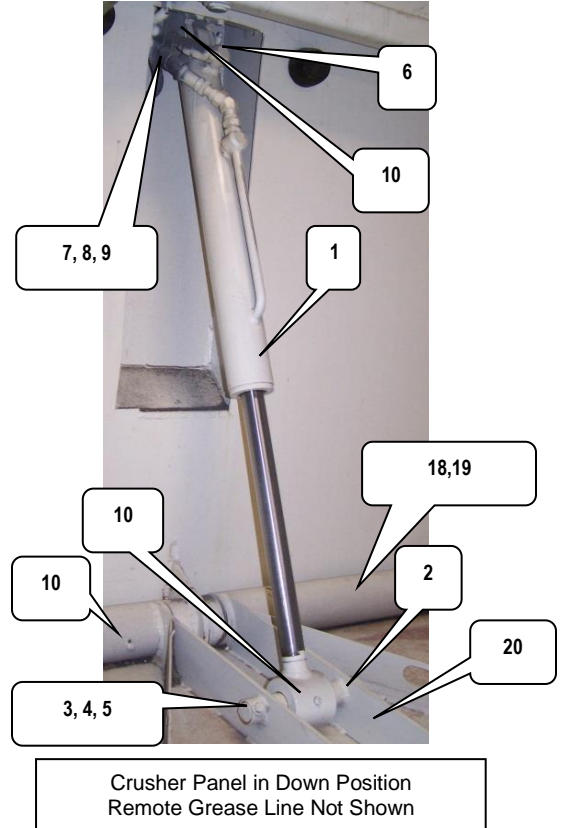
Follower Panel



**Crusher Panel**

**Crusher Panel, Assemblies, Parts and Components**

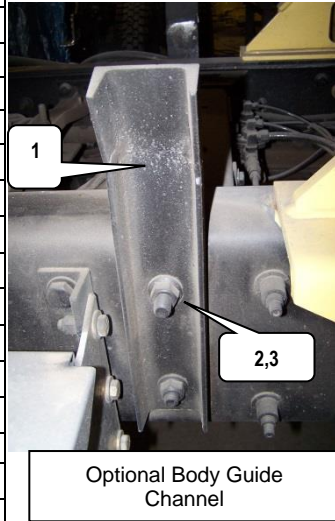
No.	Qty	Description	Part #
1	1	Cylinder, Hydraulic, Crusher Panel	A96008
2	1	Pin, Cylinder, Rod End	A48028
3	2	HHCS, 3/8-16 NC x 2.5", GR 5	9950605
4	8	Flat Washer, 3/8" SAE	9950103
5	4	Locknut, 3/8-16 NC, GR 5	9950027
6	1	Pin, Cylinder, Base End	A11031
7	2	HHCS, 1/2-13 NC, GR5	9950723
8	4	Flat Washer, 1/2" SAE	9950105
9	2	Locknut, 1/2-13 NC, GR 5	9950029
10	6	Grease Fitting, 1/8" NPT	9950276
11	1	Hose, Crusher Base	A94244
12	2	Elbow, Swivel Nut, 45 Degree	A93084
13	2	Connector, Straight Thread	A93056
14	1	Fitting, Orifice	A19024
15	1	Hose, Crusher Rod	A94245
16	2	Bumper, Rubber	A62001
17	2	Spacer, Bumper	A30305
18	1	Pin, Crusher Panel	A46065
19	2	HHCS, 3/8"16 NC x 4.5" GR 5	9950619
20	1	Weldment, Crusher Panel	A18006
21	1	Crusher Panel Top Flap	A49014
22	1	Crusher Panel L/H Flap	A49015
23	1	Crusher Panel R/H Flap	A49016



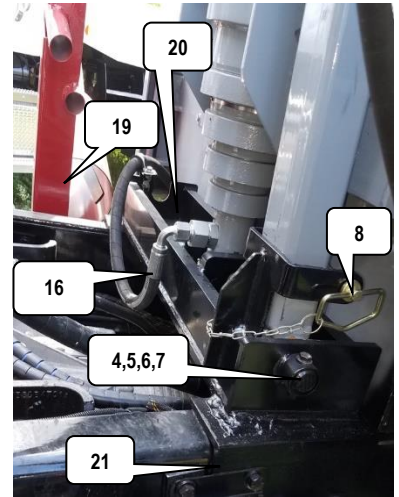
**BODY**

**Body Mounting System – Body to Chassis Frame and Rails and Components**

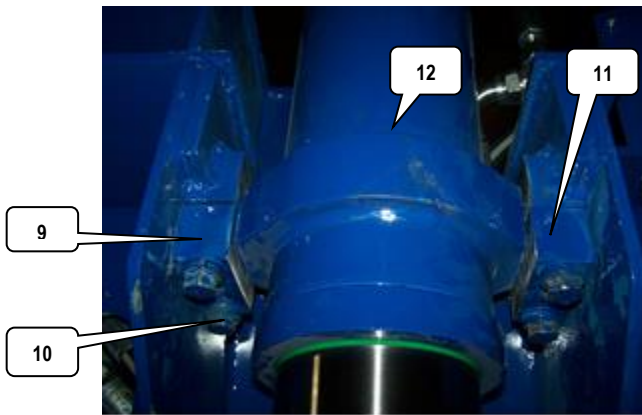
No.	Qty	Description	Part #
1	2	Guide, Body	A47016
2	4	Locknut, Flange, 3/4-10 NC, GR 8	9950050
3	4	Bolt, Flange, 3/4-10 NC, GR 8	9950802
4	1	Pin, Body Prop Rod	A48022
5	1	HHCS, 3/8-16NC x 3.5", GR 5	9950607
6	2	Flat Washer, 3/8" SAE	9950103
7	1	Locknut, 3/8-16NC, GR 5	9950027
8	1	Pin, Hitch, w/Chain	A50011
9	2	Cap, Trunnion Mount	A44053
10	4	HHCS, 5/8-11 x 3/5", GR 5	9950762
11	2	Grease Fitting, 1/8-27 NPT	9950276
12	1	Hoist Cylinder 25, 28, 31Std Yard	A96007
		Hoist Cylinder 31CNG, 34 Yard	A96014
		Hoist Cylinder 18, 21 yard	A96021
13	1	Pin, Body Hoist	A48023
14	1	HHCS, 3/8-16NC x 3.0", GR 5	9950606
15	1	Grease Fitting 1/8" NPT	9950275
16	1	Hose, Hoist Cylinder	A94045
17	1	Hose, Hoist Bleed Circuit	A94075
18	1	Bleeder, Hoist Cylinder	A91010
19	Opt.	Tool and 20lb Fire Extinguisher Holder	A10035
20	1	Hoist Cylinder Mount	A11013
21	2	Chassis Mount	A47005



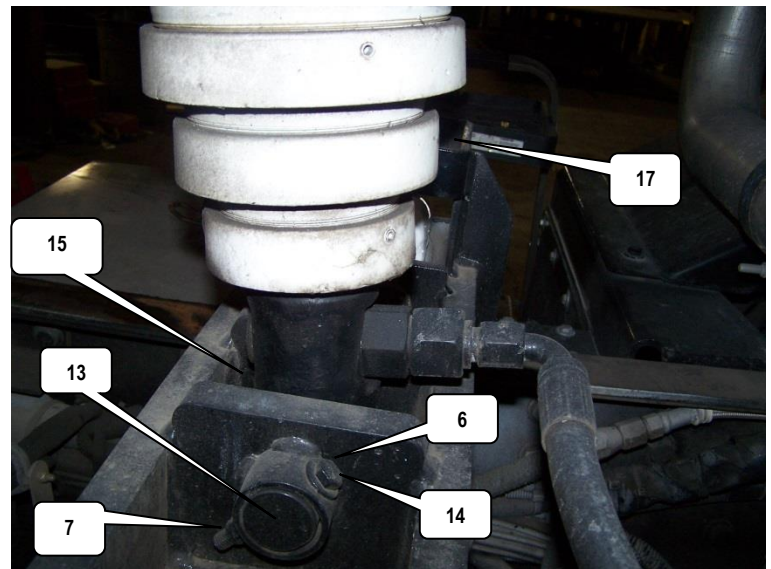
Optional Body Guide Channel



Body Prop Rod



Trunnion Block, Body Hoist Cylinder

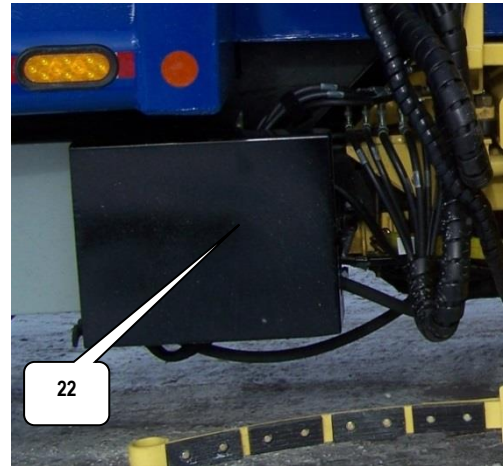


Body Telescoping Cylinder, Lower Frame and Pin

**BODY**

**Body Mounting System – Body to Chassis Frame and Rails and Components**

No.	Qty	Description	Part #
22	1	Cover, P70 Valve	A20289
23	2	Pin Assembly, Packer Cylinder	A13010
24	2	HHCS, 3/4-10 NC x 5", GR 8	9950805
25	2	Locknut, Flange, 3/4-10 NC, GR 8	9950032
26	4	Flat Washer, 3/4" SAE	9950108
27	2	Grease Fitting, 1/8" NPT	9950276



P70 Valve Cover Assembly



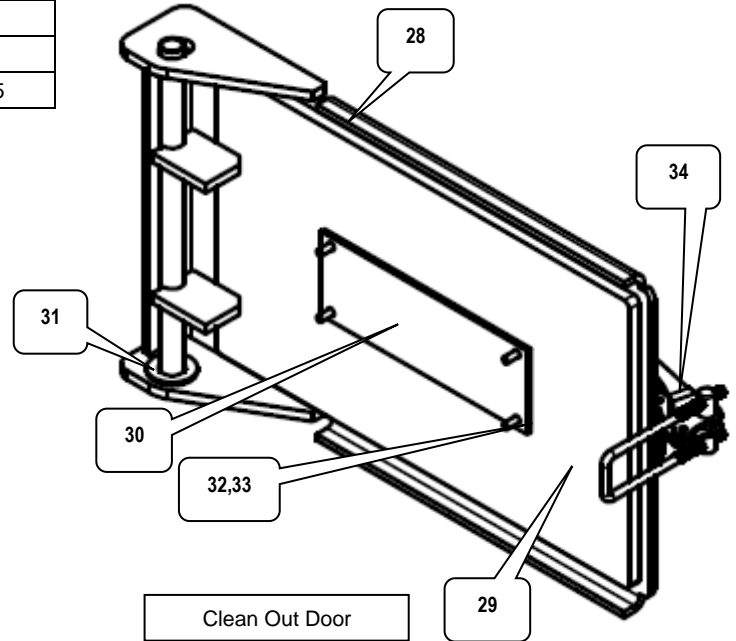
Left Side Packer – Cylinder Pins – Assembly



**BODY**

**Body Mounting System – Body to Chassis Frame and Rails and Components**

No.	Qty	Description	Part #
28	2	Door Assembly	A11025
29	2	Gasket	A62008
30	2	Plate, Gasket Backing, (1 Each Door)	A30331
31	4	Flat Washer, 7/8" SAE (2 Each Door)	9950109
32	8	Flat Washer, 1/4" SAE (4 Each Door)	
33	16	Hex Nut, 1/4"-20 NC, (2 Each Stud)	
34	2	Latch, Clamp, (1 Each Door)	A62025

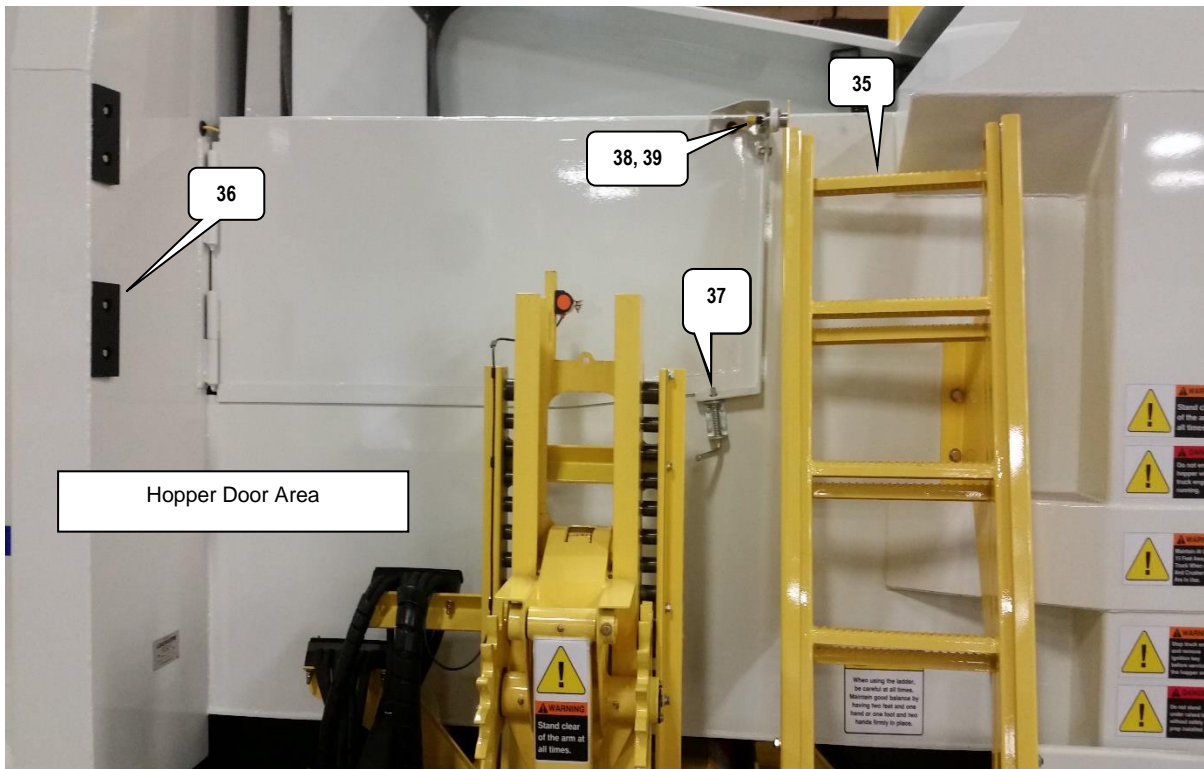


**Eclipse Automated Side Loader - ASL**

**BODY**

**Body Mounting System – Body to Chassis Frame and Rails and Components**

No.	Qty	Description	Part #
35	1	Ladder Assembly	A11053
36	2	Gripper Pad, Door Cushion	A62018
37	2	Spring Latch	9960012
38	1	Proximity Switch	A82010
39	1	Prox Mount	A11068



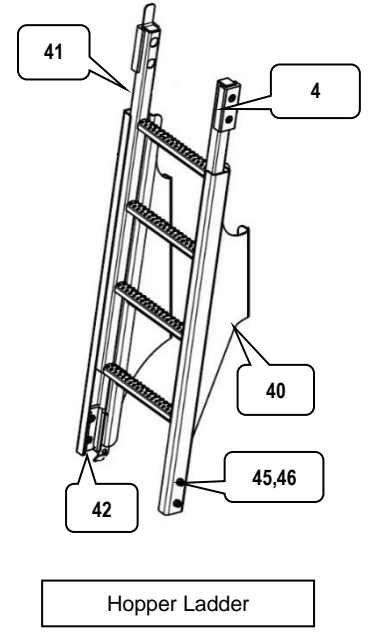
**Eclipse Automated Side Loader - ASL**

**Section 12**

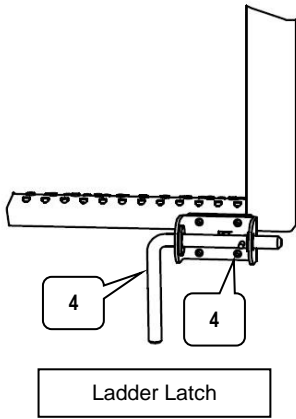
**BODY**

**Body Mounting System – Body to Chassis Frame and Rails and Components**

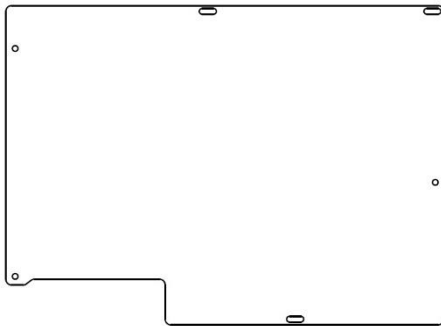
No.	Qty	Description	Part #
40	1	Ladder, Base Section	A11055
41	1	Ladder, Sliding Section	A11054
42	2	Ladder Lower Slide Plastic	A49017
43	2	Ladder Upper Slide Plastic	A49018
44	1	Spring Latch	9960012
45	8	Hex Flat Countersunk Cap Screw	1/2-20x1.25
46	8	Prevailing Torque Type Hex Nut	1/2-20 NUT
47	8	1/4-20 x .75 Hex Bolt	1/4-20 x .75



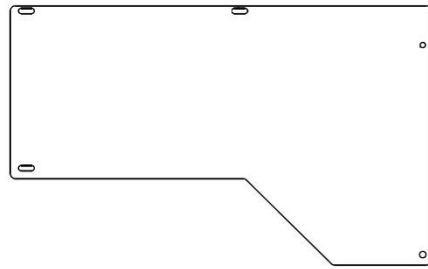
Hopper Ladder



Ladder Latch



Front Hopper Cover  
Curb Side  
A20280



Front Hopper Cover  
Street Side  
A20281

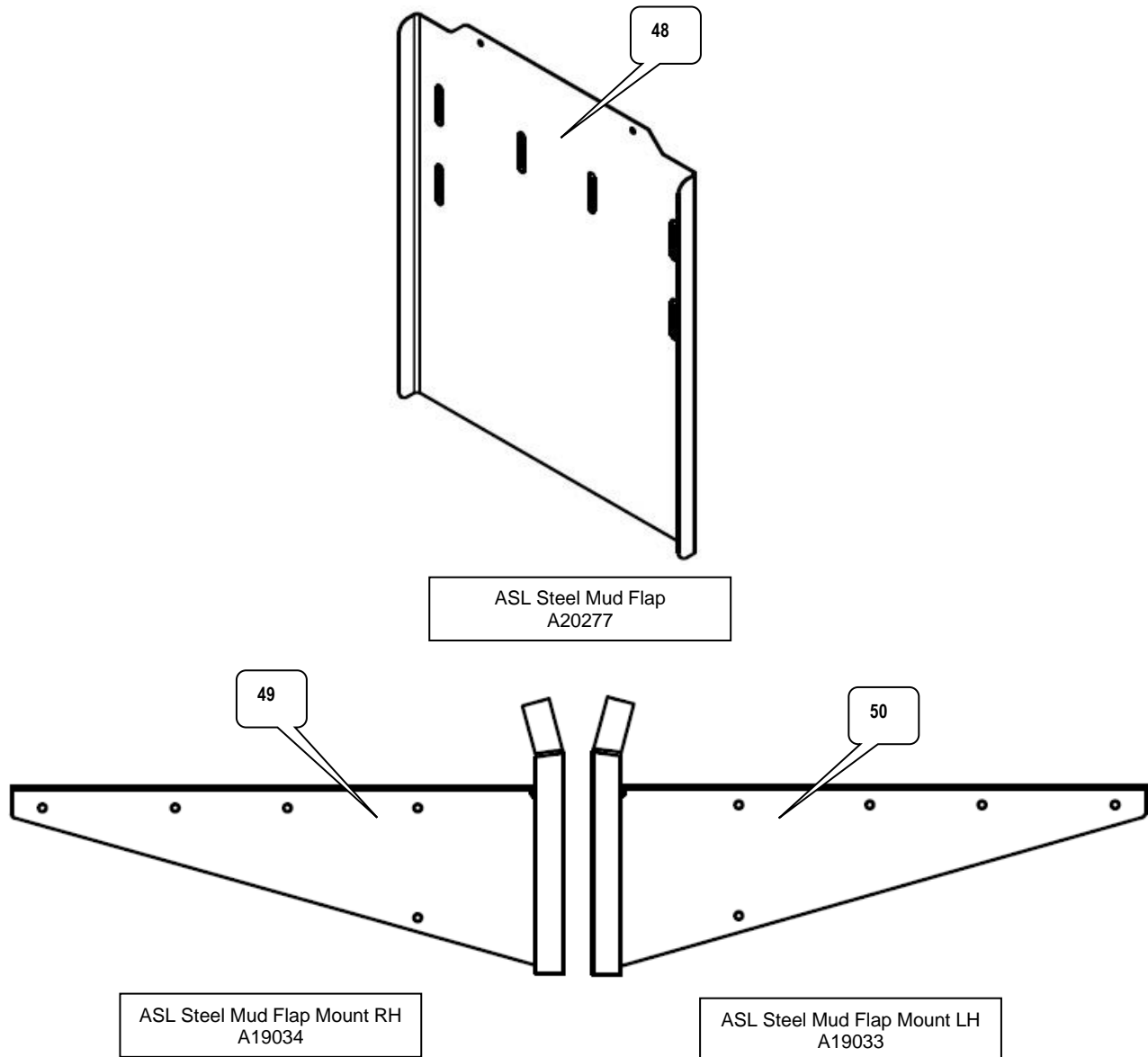
Eclipse Automated Side Loader - ASL

**BODY**

Body Mounting System – Body to Chassis Frame and Rails and Components

Mud Flap Assembly Combinations			
No.	Qty	Description	Part #
48	2	ASL Front Steel Mud Flap	A20277
		Wide Front Mud Flaps	A20552
49	1	ASL Steel Mud Flap Mount RH	A19034
50	1	ASL Steel Mud Flap Mount LH	A19033

Note: Based on Chassis selection, some flaps are reversed Left to Right and Right to Left.



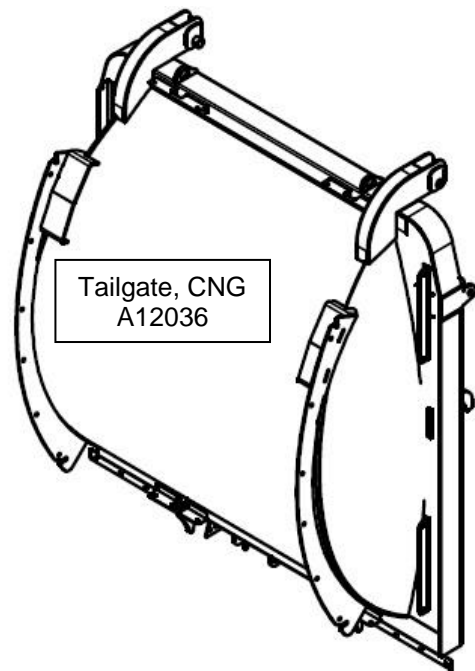
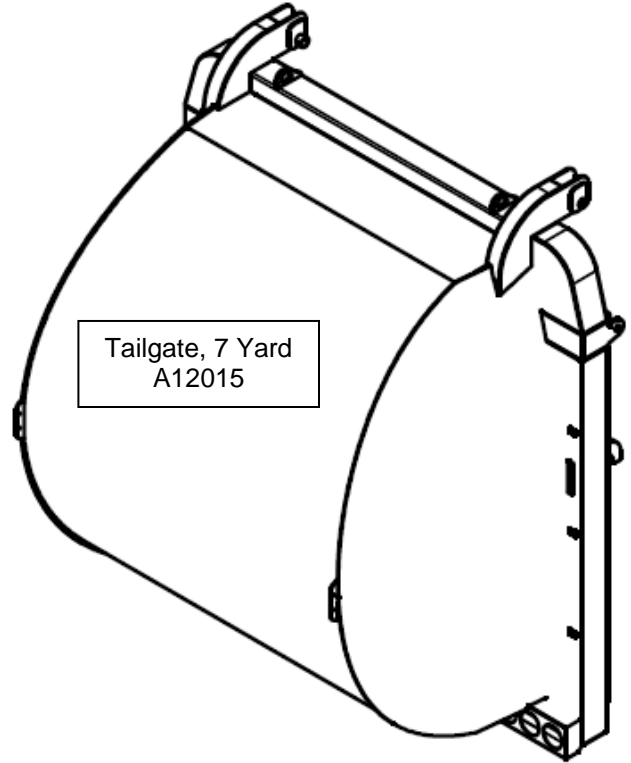
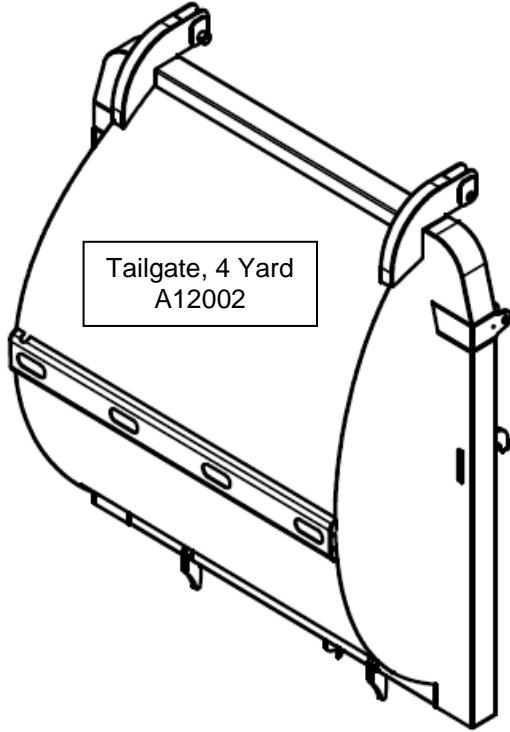
**Eclipse Automated Side Loader - ASL**

**BODY**

**Body Mounting System – Body to Chassis Frame and Rails and Components**

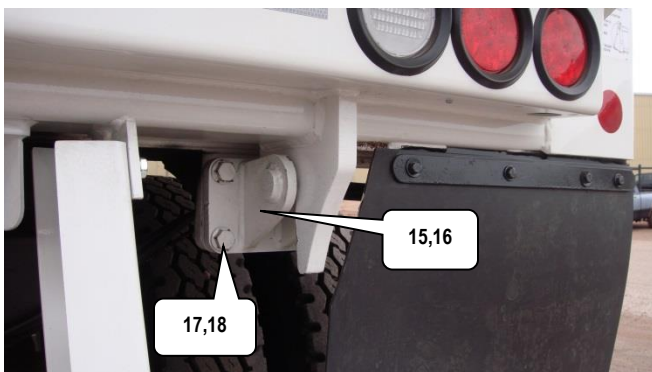
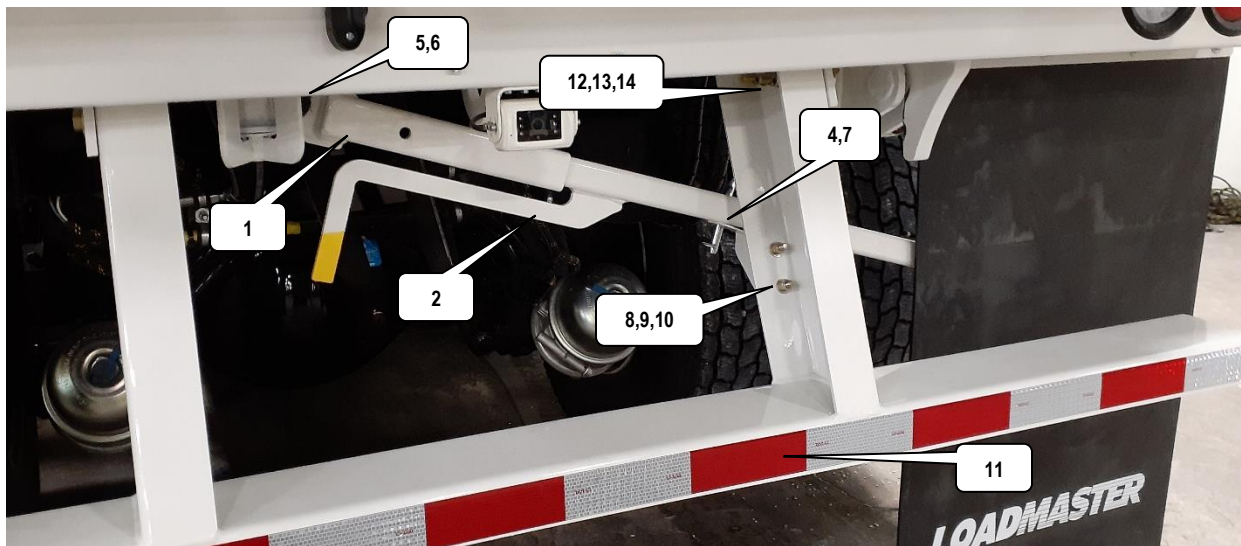
Branch Deflector			
No.	Qty	Description	Part #
51	1	T/G Branch Deflector	A19033



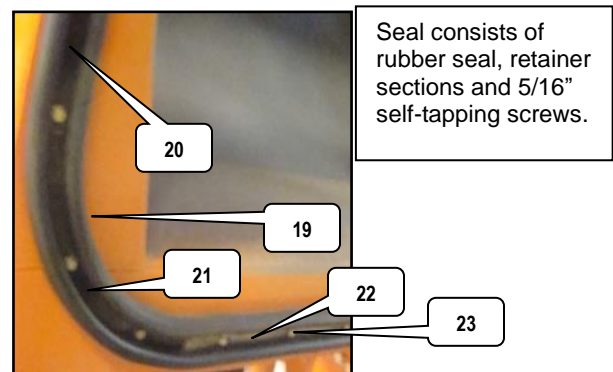


No.	Qty	Description	Part #
1	1	Prop Tube Receiver	A12008
2	1	Prop Tube Handle	A12007
4	2	Pin, Hitch	A50012
5	1	HHCS, 3/4-10 UNC x 2", STL	9950801
6	1	Hex Nut, 3/4-10, STL	9950090
7	1	Prop Bracket	A20303
8	2	3/8" Bolt	9950602
9	2	3/8" Lock Nut	9950027
10	4	3/8" Washer	9950103
11	1	ICC Bumper	A12021
		CNG ICC Bumper	A12037
12	8	HHCS 1/2-13 x1.5", GR 5	9950702

No.	Qty	Description	Part #
13	16	Flat Washer 1/2" SAE	9950105
14	8	Locknut, 1/2-13 UNC, GR5	9950029
15	2	Latch, Lower Tailgate	A11006
16	6	Shim, Lower Tailgate Latch	A20117
17	8	HHCS, 5/8-11 x 2", GR 5	9950754
18	8	Flat Washer, 5/8" SAE	9950107
19	1	Seal, Rubber	A62029
20	2	Retainer	A20697
21	2	Retainer	A20696
22	1	Retainer	A20698
23	30	Screw, Self-Threading 5/16"	



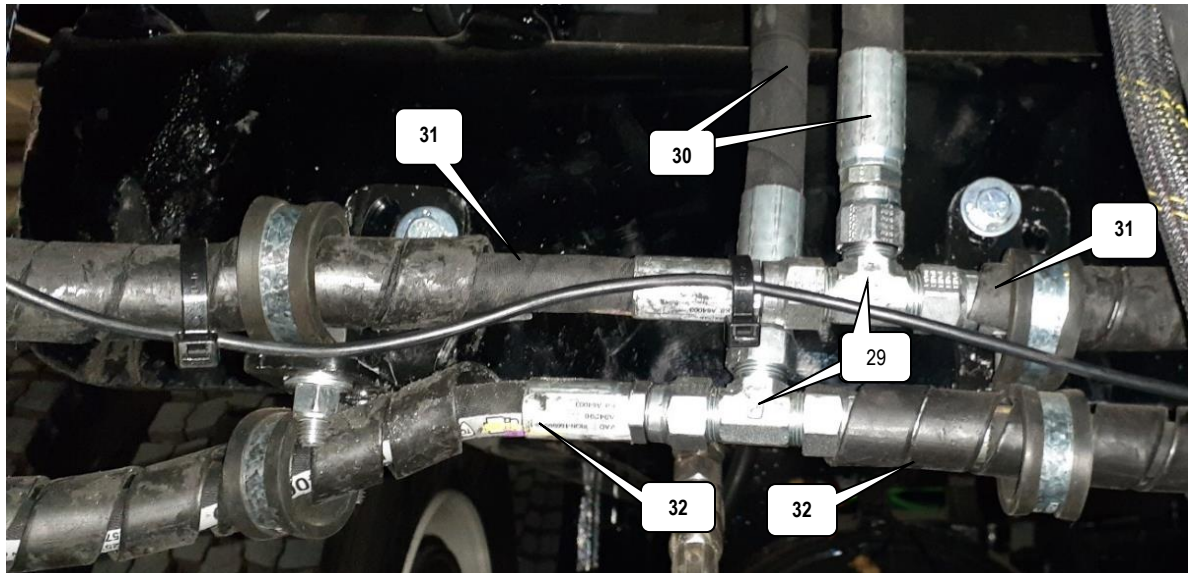
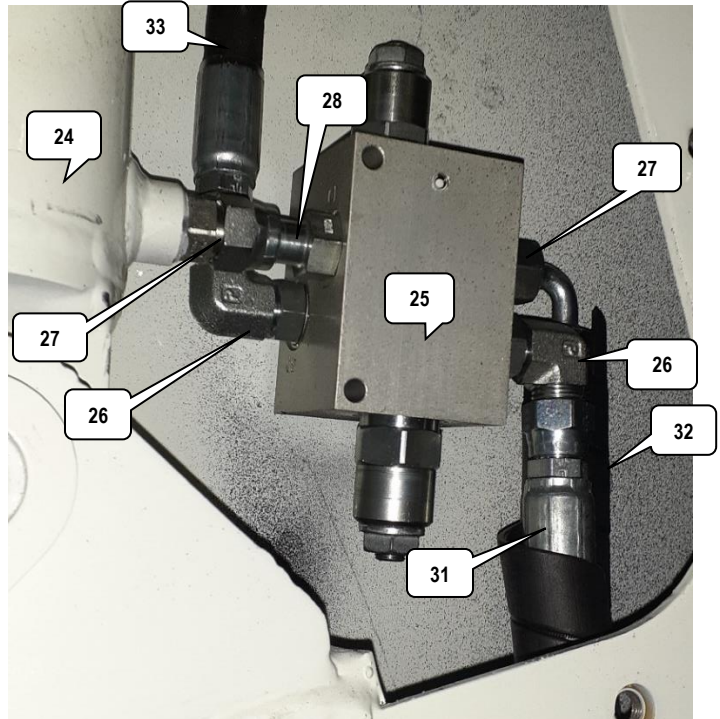
Lower Tailgate Latch



Seal consists of rubber seal, retainer sections and 5/16" self-tapping screws.

**Eclipse Automated Side Loader - ASL  
Tail Gate**

No.	Qty	Description	Part #
24	2	Cylinder – 1 & 4 Yard Tailgate	A96005
		Cylinder – 7 Yard & CNG Tailgate	A96011
25	2	Dual Counterbalance Valve	A92096
26	4	#6 ORB to M-ORFS 90	A93044
27	6	#6 ORB to M-ORFS ST	A93043
28	2	#6 ORB to F-ORFS ST	A93033
29	2	#8 3x M-ORFS Tee	A93148
30	2	Hose, Tube to Tee	A94294
31	2	Hose, Extend Tee to DCBV	A94295
32	2	Hose, Retract Tee to DCBV	A94296
33	2	Hose, Retract DCBV to Port	A94297

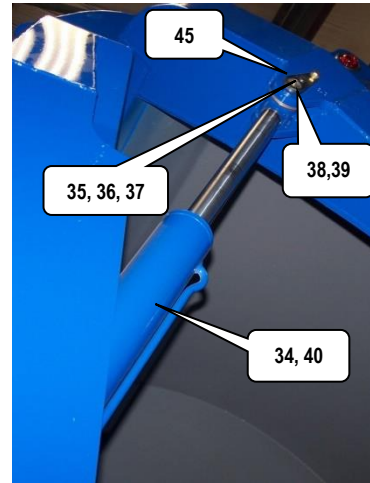




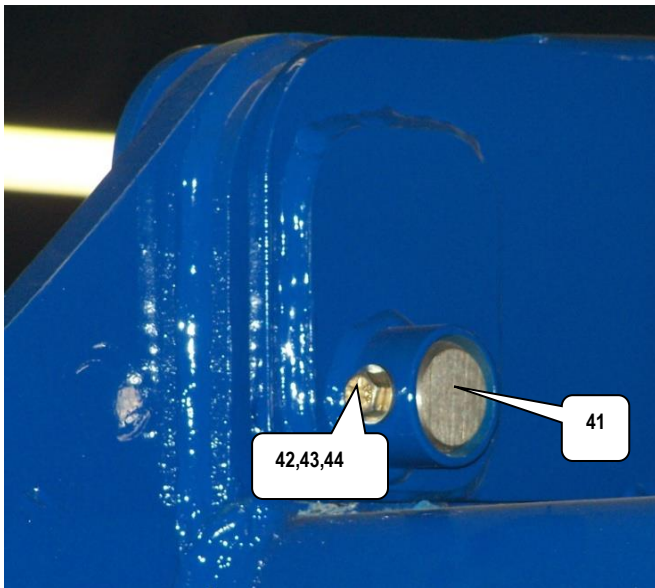
**Eclipse Automated Side Loader - ASL  
Tail Gate**

No.	Qty	Description	Part #
34	2	Cylinder 2.50 x 37.75 x 1.75 – 1 & 4 Yard	A96005
	2	Cylinder 3 x 37.75 x 1.75 – 7 Yd & CNG	A96011
35	4	Flat Washer 1/2" SAE	995015
36	4	Cap screw, 1/2 UNC x 1", GR 5	9950703
37	4	Lock washer, 1/2", GR5	9950148
38	2	Pin, Cylinder Rod End	A12012
39	4	Grease Fitting, 1/8" NPT	9950276
40	2	Pin, Cylinder Base End	A12011
41	2	Pin, Tailgate Hinge W/Grease	A48016
42	2	Nut, Self-Locking, 3/8-16	9950027
43	2	HHCS, 3/8-16 x 2.5", GR5	9950605
44	4	Flat Washer, 3/8"	9950103
45	8	Washer, Tail Gate Cylinder	A63015

**Upper Tail Gate Hinge Pin – Body  
With Remote Grease Option**

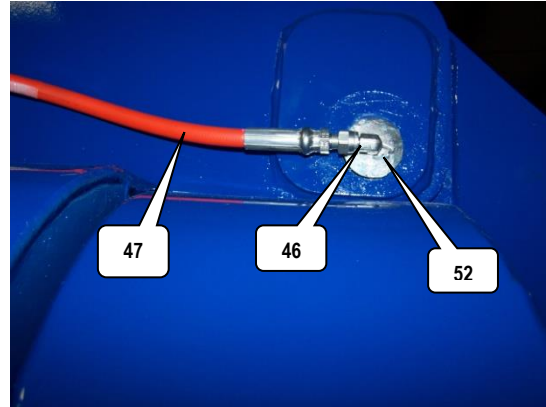


Tail Gate Cylinder

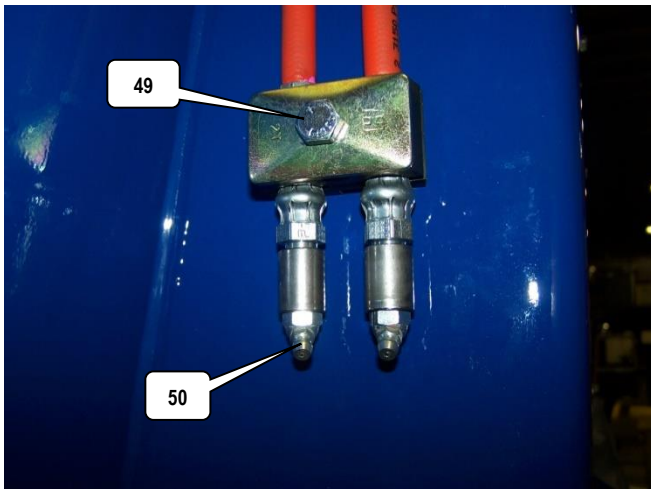


Upper Tail Gate Hinge Pin – Body  
Shown Without Remote Grease Feature

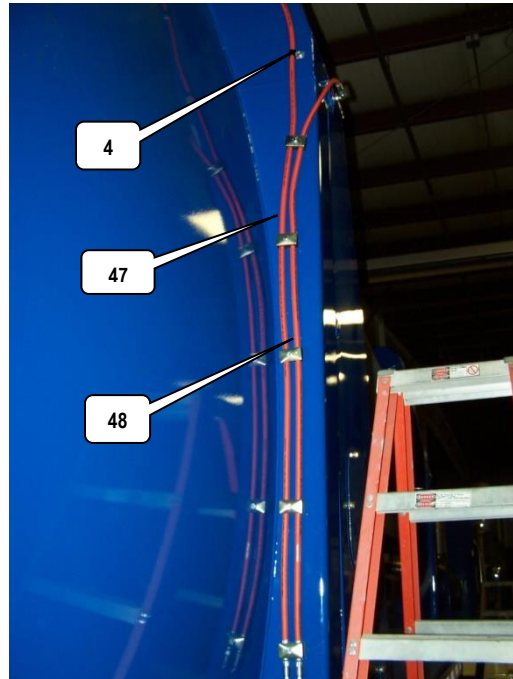
No.	Qty	Description	Part #
46	2	90 Degree Swivel Fitting	9933225
47	2	Hose, Grease 92"	A62029
48	2	Hose, Grease 66.5"	A62030
49	10	Clamp, Twin Tube, 1/2" (Includes Bolt, Cap, Upper & Lower Split Nylon Blocks)	996
50	4	45 Degree Grease Fitting	9950277
51	4	Clamp, Hose 1/2"	A62013
52	2	Pin, Hinge	A48016



Upper Tail Gate Hinge Pin – Body With Remote Grease



Upper Tail Gate Hinge Pin / Cylinder With Remote Grease



Cylinder Pin Grease

No.	Qty	Description	Part #
53	1	T/G Upper Light Pod	A12031
	1	T/G Upper Light Pod With Center Option	A12020
	1	1 YD SM T/G Upper Light Pod	A20495
54	1	Middle Light Pod	A12019
	1	CNG Middle Light Pod	A12038
58	1	Lower Light Pod Standard Part of TG	NA
	1	1 YD SM T/G Lower Light Pod	A20496



**Decals****ASL – Automated Side Loader - Decals**

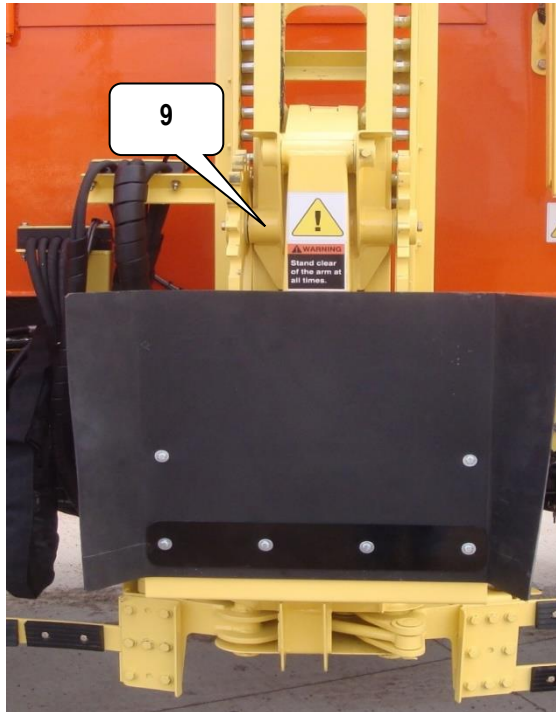
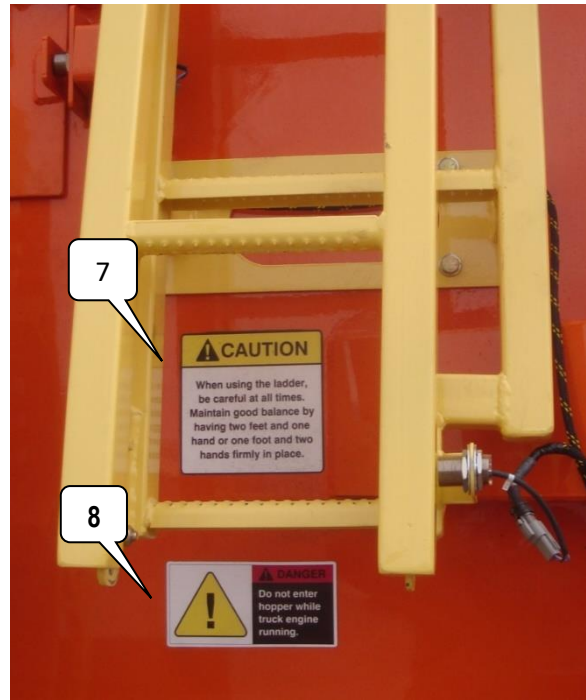
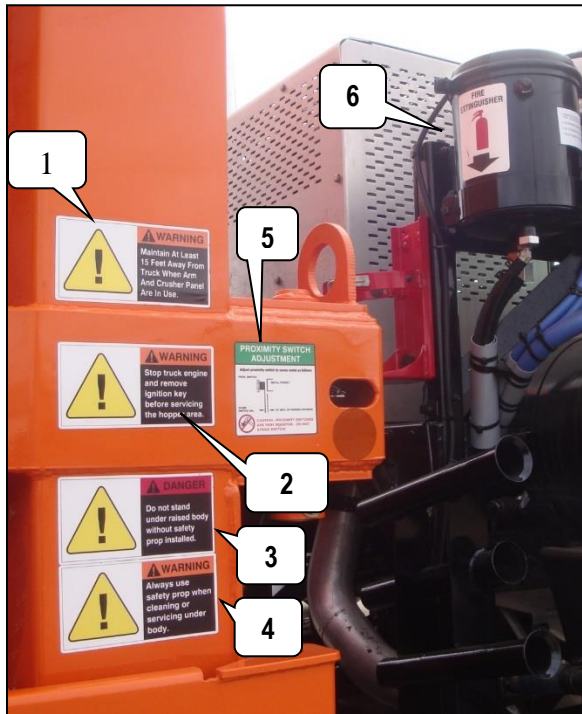
No.	Qty.	Description	Location(s)
1	1	Warning – Maintain At Least 15 feet Away from Truck When Arm and Crusher Panel Are in Use.	Curb Side Front of Body
2	1	Warning - Stop Truck Engine and Remove Ignition Key Before Servicing the Hopper Area.	Curb Side Front of Body
3	2	Danger – Do Not Stand Under Raised Body Without Safety Prop Installed.	Curb Side Front of Body Traffic Side Front of Body
4	1	Warning – Always Use Safety Prop When Cleaning or Servicing Under Body	Curb Side Front of Body
5	2	Proximity Switch Adjustment.	Traffic Side Front of Body Curb Side Front of Body
6	1	Fire Extinguisher	Adjacent Fire Extinguisher
7	1	Caution – When Using the Ladder, Be Careful at All Times. Maintain Good Balance by Having Two Feet and One Hand or One Hand or One Foot and Two Hands Firmly in Place.	At Ladder
8	1	Danger – Do Not Enter Hopper While Truck Engine Running.	At Ladder
9	1	Warning – Stand Clear of The Arm at All Times.	Front of Arm
10	1	Danger – To Prevent Possible Injury, Death, or Property Damage, Do Not Use This Refuse Collection Vehicle to Tow Other Equipment. It Is Not Intended, Designed or Equipped for Towing.	Tail Gate Back of Vehicle
11	1	Tail Gate Prop Installation Instructions	Tail Gate Back of Vehicle
12	2	Warning, Stand Clear of Tailgate When in Raised Position.	Curb Side at Tail Gate Traffic Side at Tail Gate
13	4	Tailgate Fully Closed White Arrows (2 Each Side)	Curb Side at Tail Gate Traffic Side at Tail Gate
14	1	Warning – Use Safety Prop Under No-Load Condition ONLY.	Traffic side of front Body
15	1	Body Prop Installation Instructions	Traffic side – front of the Body
16	1	Caution – Hydraulic Oil Only	Oil Tank Reservoir
17	1	Warning – Stand Clear of Tailgate at All Times	Base of Tailgate

**Decals****ASL – Automated Side Loader - Decals**

No.	Qty.	Description	Location(s)
18	4	White Reflective Strips	On Tail Gate
19	3	Red/White DOT Reflective Tape	Bumper Bar Curb Side of Body Traffic Side of Body
20	2	Loadmaster logo	Curb Side of Body Traffic Side of Body
21	2	Eclipse Logo	Curb Side of Body Traffic Side of Body
22	1	Warning – Watch for Pedestrians. Use Mirrors at All Times	Cab Console
23	1	Warning – Always Apply Parking Brake Before Leaving Vehicle	Cab Console
24	1	Danger – Ensure Clearance Behind Vehicle Before Opening Tailgate.	Cab Console
25	1	Warning – Never Leave Vehicle Unattended with Body in Raised Position.	Cab Console
26	1	Danger – Never Drive Vehicle with Automated Arm Extended.	Cab Console
27	1	Caution – Dumping Height – 22 Foot 1 Inch	Cab Console
28	1	Warning – Overall Height 12 Foot 6 Inches	Cab Console
29	1	Warning – Do Not Operate Vehicle Without Reading Operator's Manual First.	Cab Console
30	1	Caution - Serious Personal or Mechanical Damage Could Result If Ground Is Unstable.	Cab Console
31	1	Caution - Be Sure There Is Enough Clearance to Dump Container.	Cab Console
32	1	Danger – Do Not Use Automated Arm If Second Operator Stands Outside.	Joystick
33	2	Danger – Do Not Enter Under Chassis Unless Engine or Power Units Are Stopped and Ignition Keys Removed.	Front Bumper Left Side Front Bumper Right Side
34	6	3" Red Reflective Circles	Curb Side of Body Traffic Side of Body
35	1	LM Number	Curb Side of Body

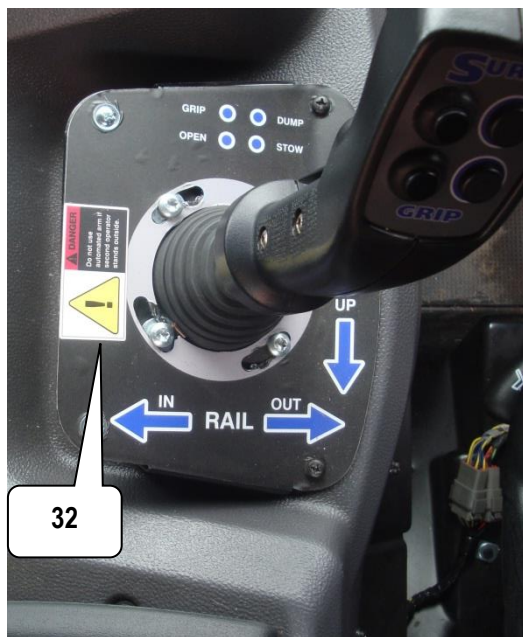
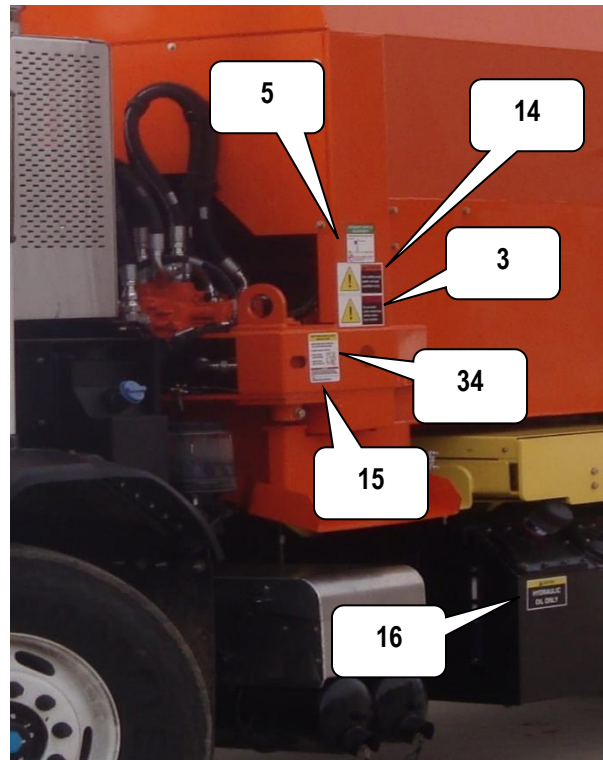
Eclipse Automated Side Loader - ASL  
**Decals**

ASL – Automated Side Loader - Decals



Decals

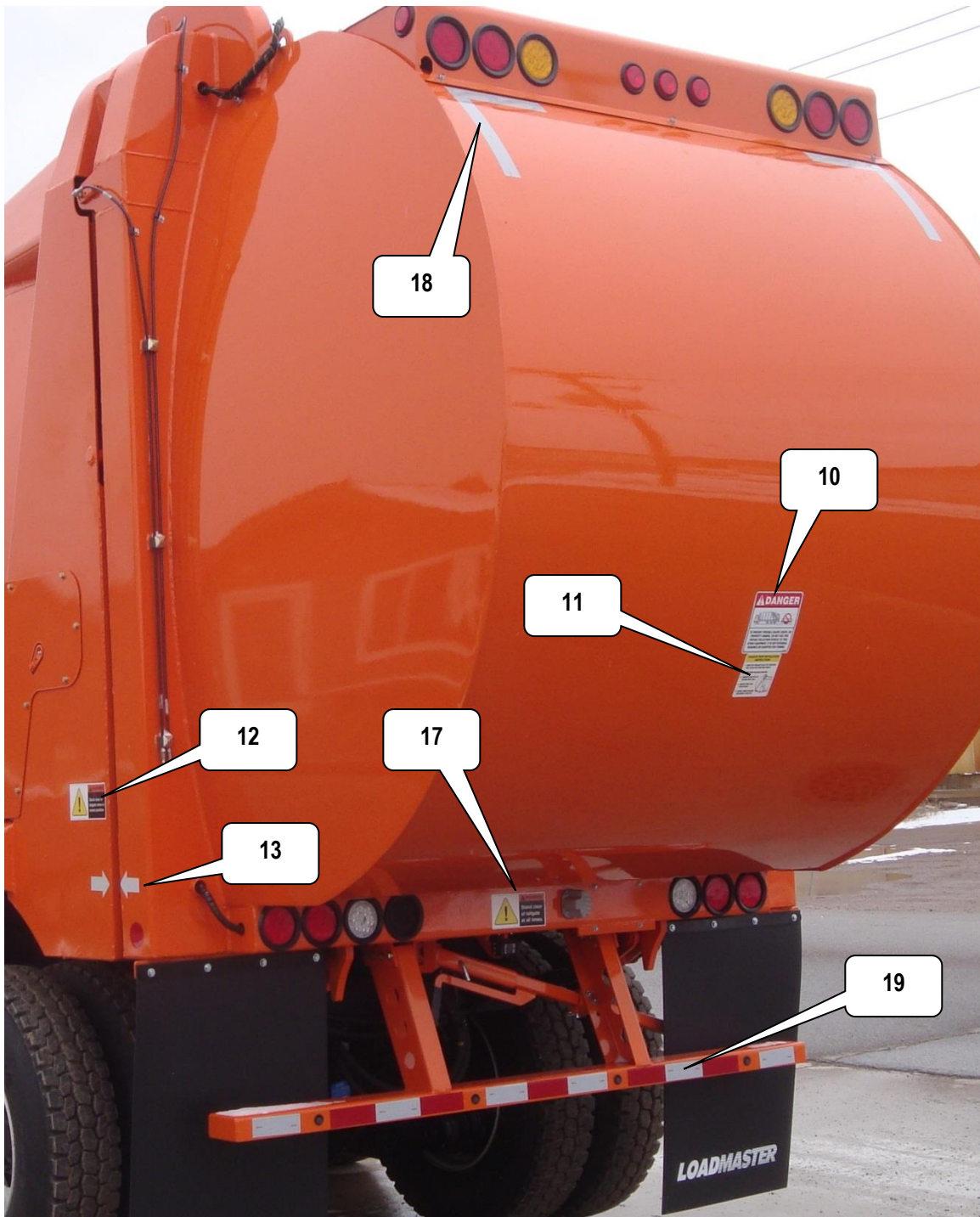
ASL – Automated Side Loader - Decals



Decals

ASL – Automated Side Loader - Decals

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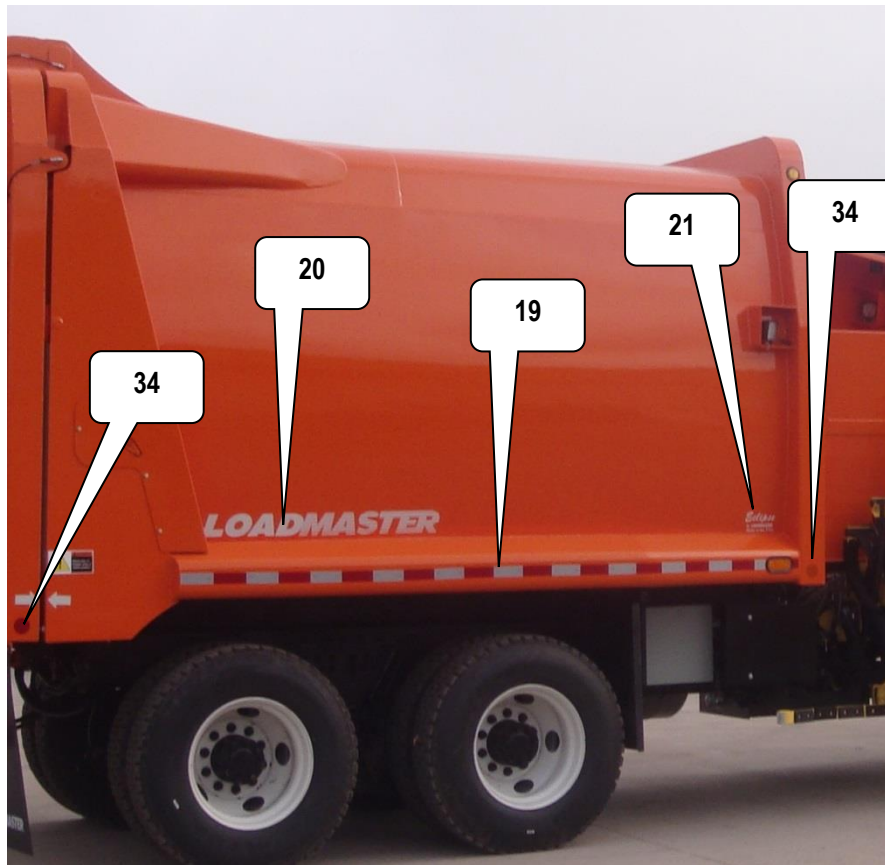




**Decals**

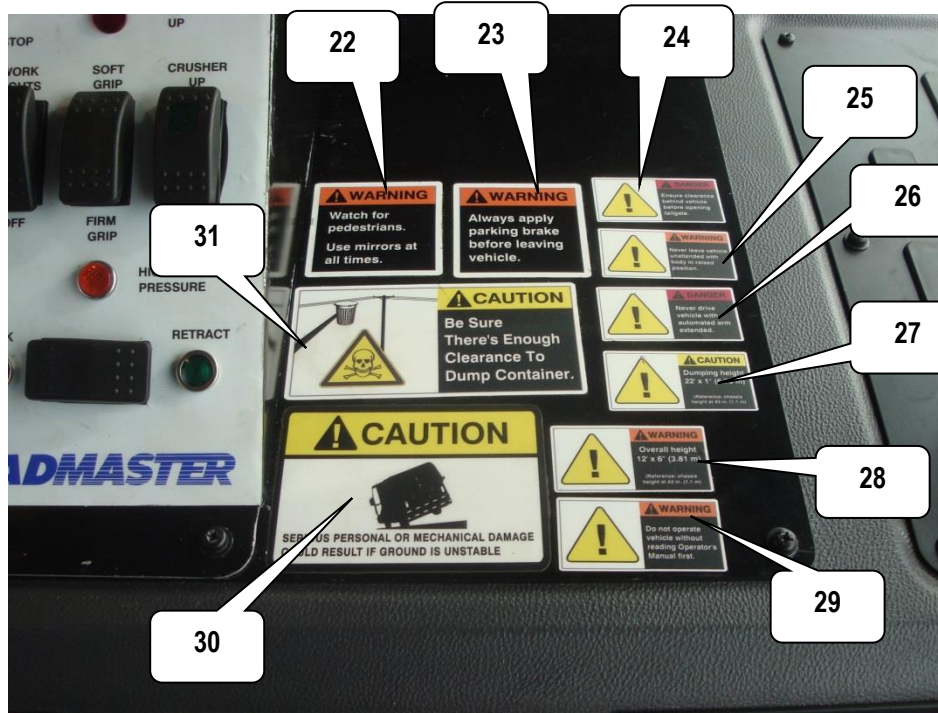
ASL – Automated Side Loader - Decals

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Eclipse Automated Side Loader - ASL  
**Decals**

ASL – Automated Side Loader - Decals



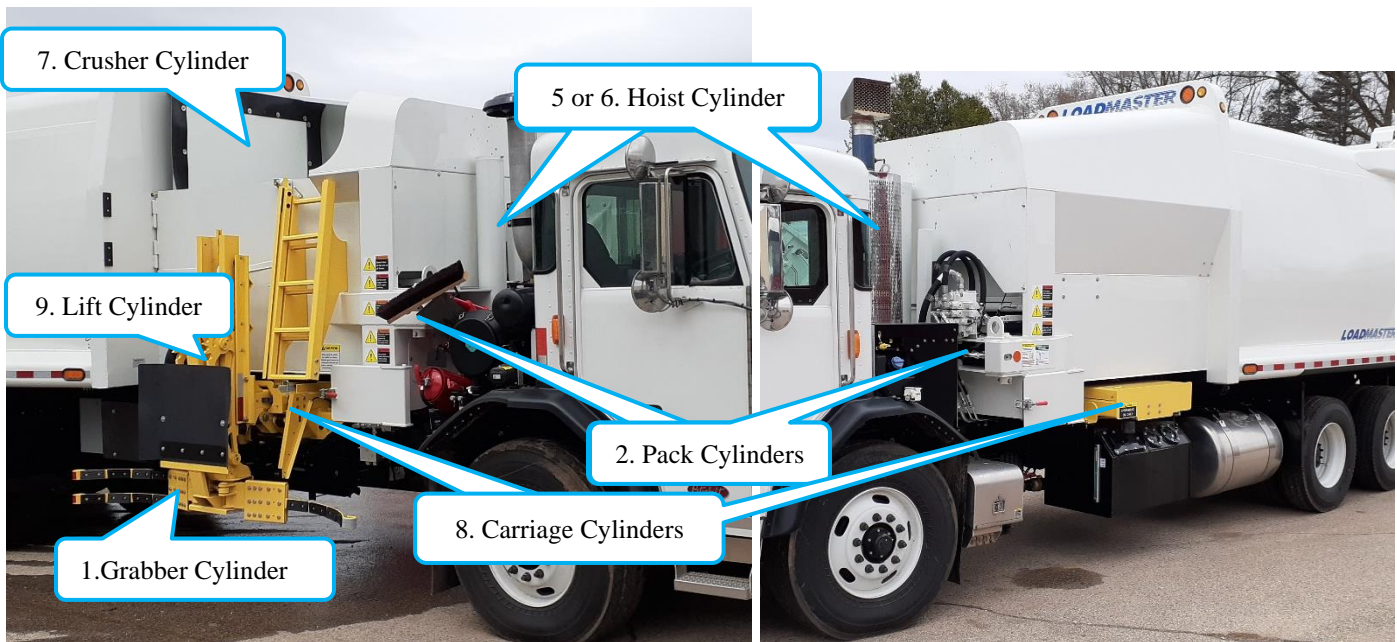
**Eclipse ASL Hydraulic Cylinders**  
Cylinder / Location Spread Sheet

**CYLINDER SPREADSHEET**

No.	Qty	Description	Part #
1	1	Grabber Cylinder	A96020
	1	Seal Kit, Grabber Cylinder	A96003-SK
2	2	Pack Cylinder	A96004
	1	Seal Kit, Pack Cylinder	A96004-SK
3	2	Tailgate Cylinder (1- and 4-Yard Tailgate)	A96005
	1	Seal Kit, Tailgate Cylinder (1 and 4 Yard)	A96005-SK
4	2	Tailgate Cylinder (7yd or Tailgate CNG)	A96011
	1	Seal Kit, Tailgate Cylinder (7yd or 4yd CNG)	A96011-SK
5	1	Hoist Cylinder (25 - 31 Yard)	A96007
	1	Seal Kit, Hoist Cylinder (25 - 31 Yard)	A96007-SK
6	1	Hoist Cylinder (34 Yard or 31 long)	A96014
	1	Seal Kit, Hoist Cylinder (34 Yard)	A96014-SK
7	1	Crusher Panel Cylinder	A96008
	1	Seal Kit, Crusher Panel Cylinder	A96008-SK
8	2	Carriage Cylinder	A96018
	1	Seal Kit, Carriage Cylinder	A96009-SK
9	1	Sprocket Lift Arm Cylinder	A96019
	1	Seal Kit, Sprocket Lift Arm Cylinder	8800891



*Note: For additional cylinder parts, contact your local dealer representative.*





800-433-2768  
1-906-563-9226

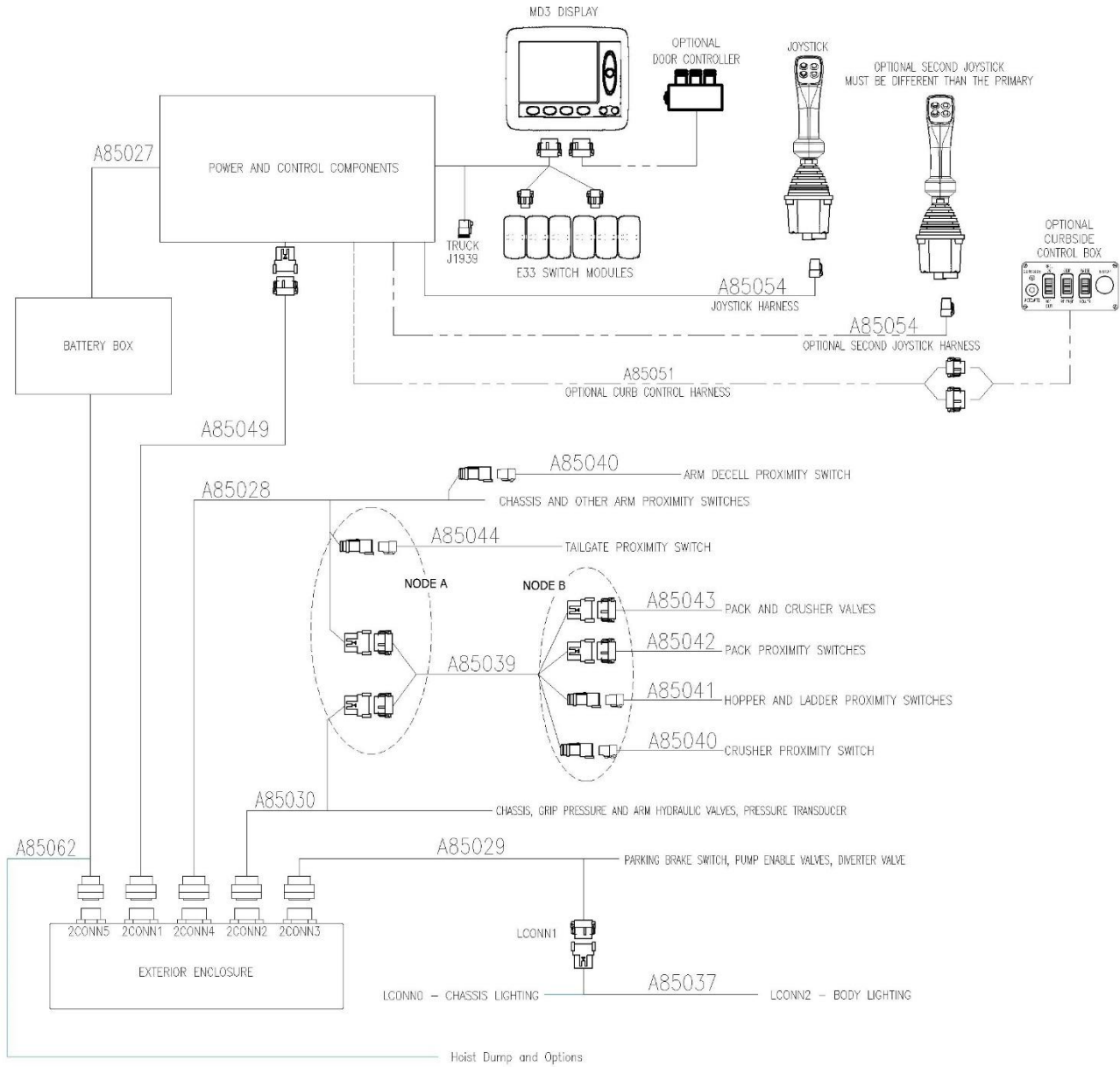
Eclipse Automated Side Loader - ASL

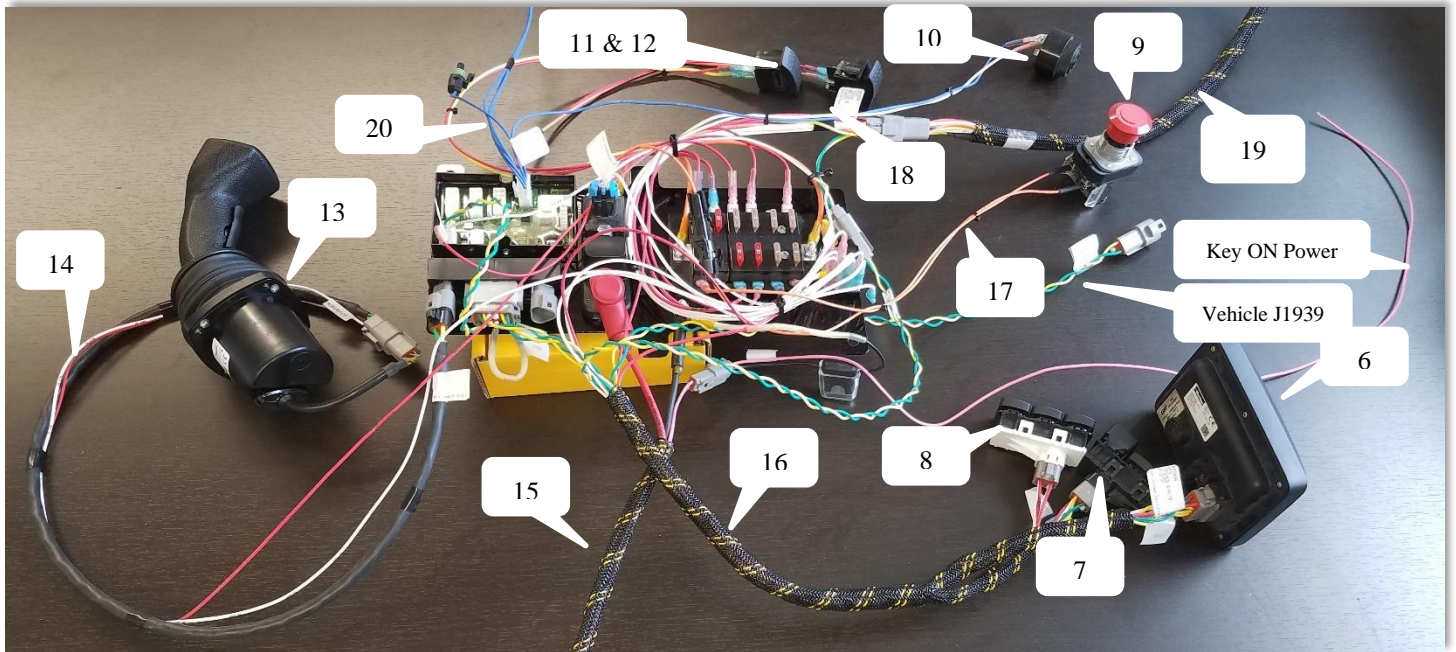
Section 15

## Eclipse ASL Hydraulic Cylinders

Cylinder / Location Spread Sheet

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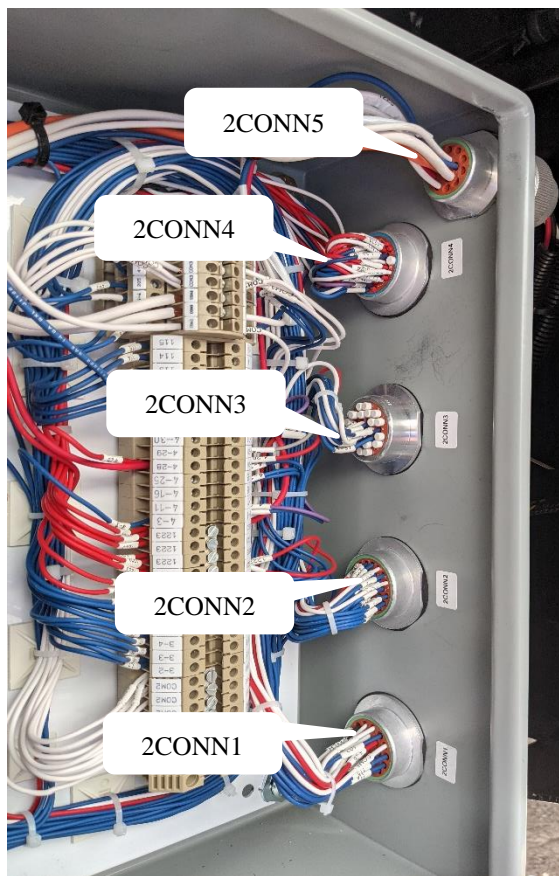




1	A20610	Mounting Plate	11	Varies	Work Light Switch
2	A86006	I/O Module	12	Varies	Strobe Light Switch
3	A84008	J1939 CAN splitter	13	A91019	Standard Joystick
4	A86001	Power Fuse Module	14	A85054	Joystick Harness
5	A84009	Fuse Block	15	A85027	Battery Box Harness
6	A86002	MD3 Display	16	A85050	MD3 and CAN harness
7	A86013	Master Switch Pack	17	A85052	E-Stop Harness
8	A86014	Slave Switch Pack	18	A85058	Main Power Harness
9	A86012	E-stop	19	A85049	Exterior Box Harness
10	A83012	Buzzer	20	A85053	In-Cab Output Harness



No.	Qty	Description	Part #
21	1	IQAN Exterior Box	A86103



## Optional Controls



### Auxiliary Joystick

Red Ring Joystick	A91025
Joystick harness	A85054



### Curb Control

Standard Curb Control	A91005
or	
Thin Control (not shown)	A91023
Curb Control Harness	A85051



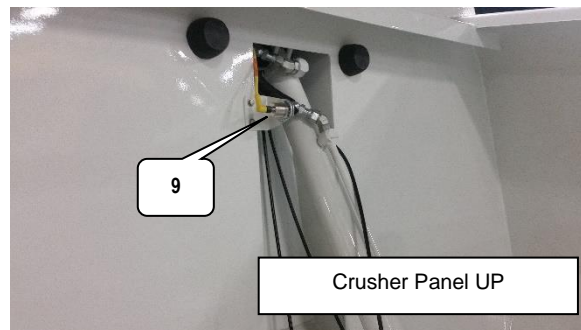
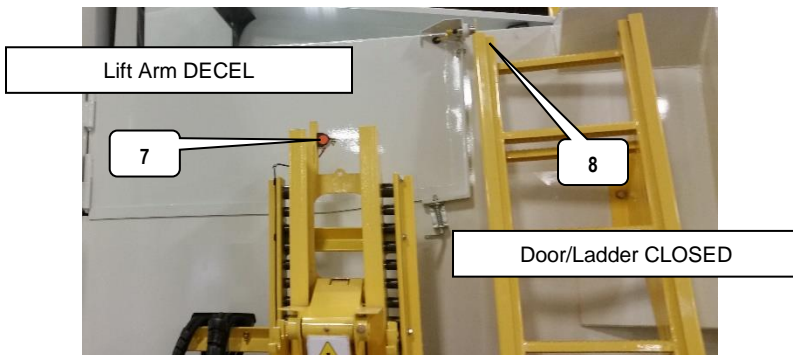
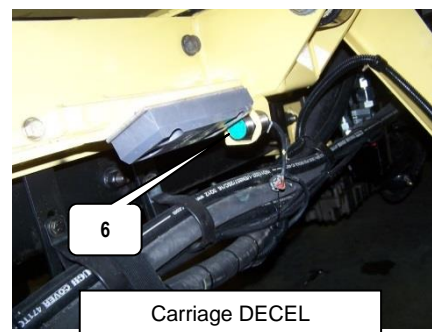
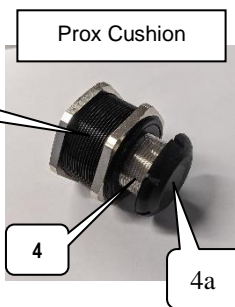
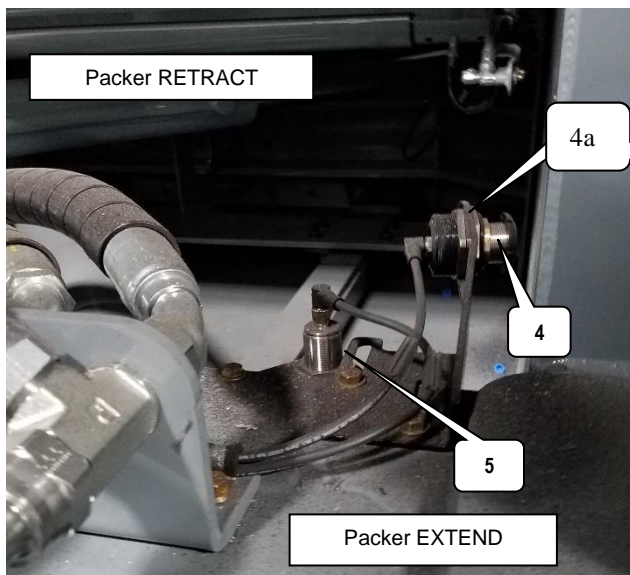
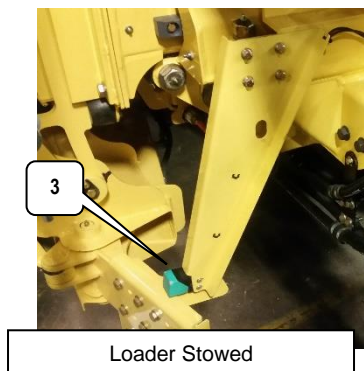
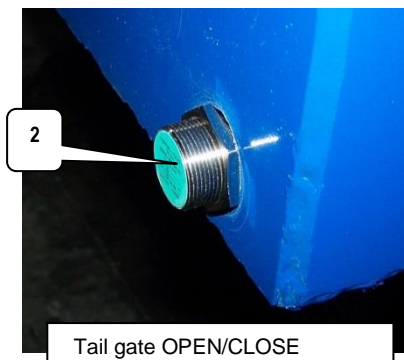
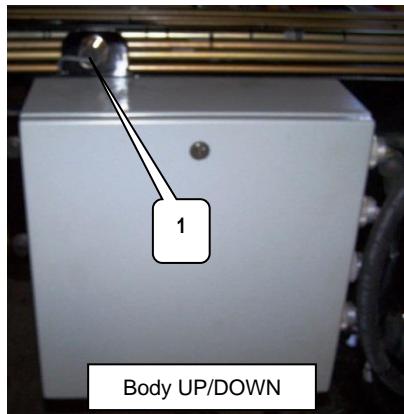
### Door Control

Door Control	A86010
Mounting Bracket	Varies



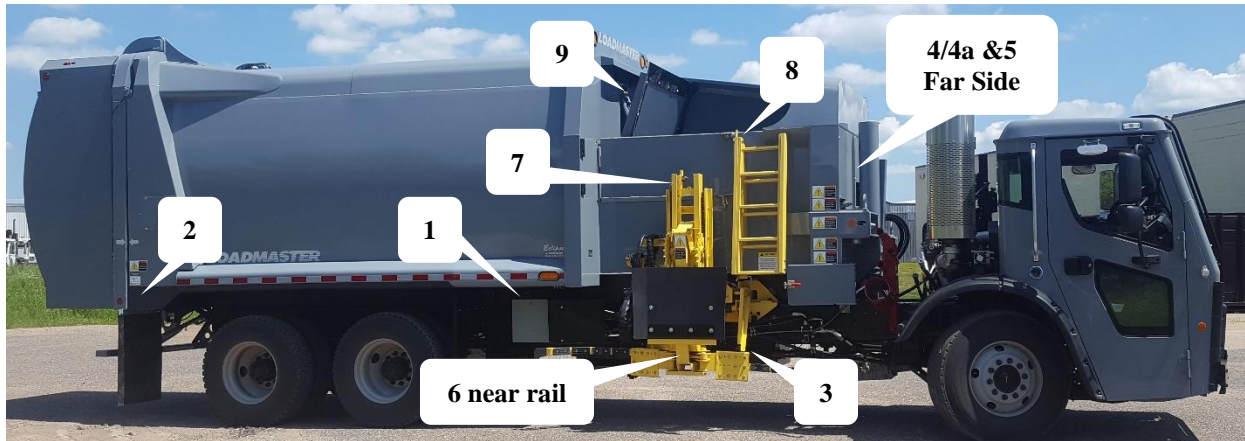
**Prox Switches**

No.	Qty	Description	Part #	Harness Location	Function
<b>ASL PROXIMITY SWITCHES</b>					
1	1	Body UP/DOWN	A82010	PRS-1	NO – Closes w/Body DOWN
1a		Body Down Prox Target	A20607		
2	1	Tailgate OPEN/CLOSE	A82010	PRS-2	NO – Opens w/Tailgate UP
3	1	Loader STOWED	A82014	PRS-3	NO – Closes w/Loader Stowed (IN/DOWN/OPEN)
3a		Loader Stowed Prox Tower	A20512		
3b		Loader Stowed Prox Target	A30504		
4	1	Packer RETRACT	A82010	PRS-4	NO – Closes w/Packer in Home Position
4a		Prox Cushion	A82016	NC	Allows PRS4 to move if struck by Packer
4b		Pack Retract Prox Bracket	A20574		
5	1	Packer EXTEND	A82010	PRS-5	NO – Closes w/Packer Extended
5a		Pack Extend Prox Bracket	A20163		
6	1	Carriage DECEL	A82010	PRS-6	NO – Closes w/Carriage Retracted
6a		Carriage Decel Prox Bracket	A20161		
6b		Carriage Decel Prox Target	A20474		
7	1	Lift Arm DECEL	A82010	PRS-7	NO – Closes w/Lift Arm Elevated
7a		Lift Arm Prox Clamp	9960052		
8	1	Door/Ladder CLOSED	A82010	PRS-8	NO – Closes w/Ladder STOWED and Door CLOSED
8a		Door Prox Bracket	A11068		
9	1	Crusher Panel UP	A82010	PRS-9	NO – Closes w/Crusher Panel in UP Position
9a		Crusher Prox Bracket	A20501		



**Proximity Switch List**

<u>Prox No.</u>	<u>Function</u>	<u>Location</u>
1	Body Down	Above Exterior IQAN box
2	Tailgate Closed	Rear of Body, Lower Right Corner
3	Loader Stowed	On stalk forward of Loader Arm
4	Packer Retract	Left side front of hopper, behind pack valve, Horizontal
4a	Prox Cushion	
5	Packer Extended	Left side front of hopper, behind pack valve, Vertical
6	Arm Rail Section Retracted	Under Loader Arm, Center, near RH frame rail
7	Loader Arm Raised	Top of Loader Arm Static Frame
8	Ladder Up and Hopper Access Door Closed	Forward Upper Corner of Access Door
9	Crusher Panel Fully Raised	Above Crusher Panel, Centered



**Lighting**

Light Pods, Components, and Parts

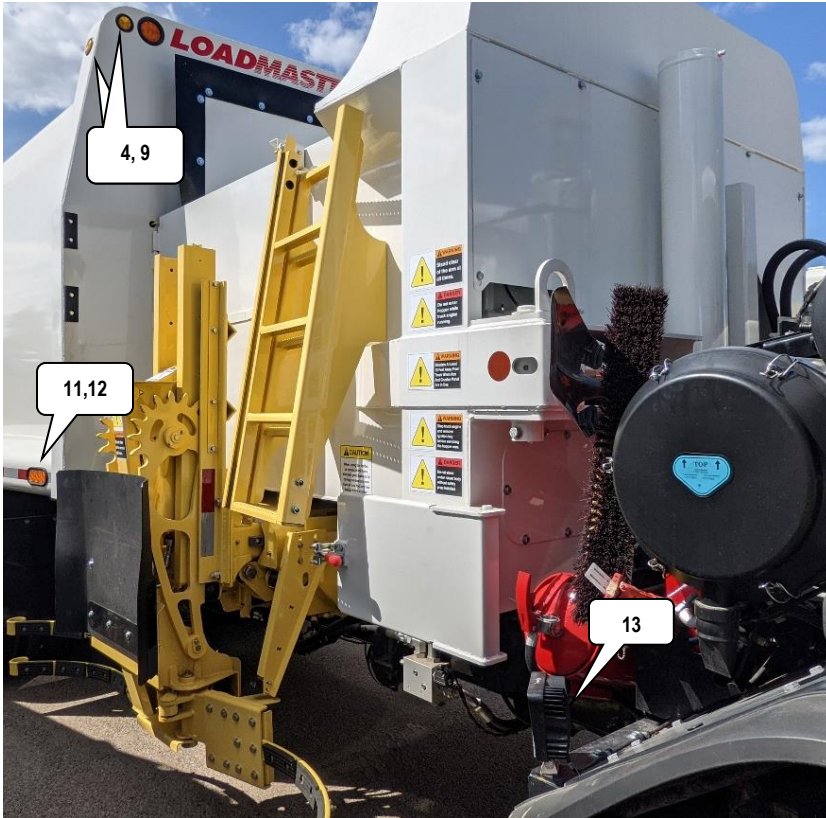
No.	Qty	Description	Part #
1	AR	Strobe, 4" Amber (See Note) ⇨	9910460
	AR	Strobe, 4" Amber (See Note) ⇨	9910461
2	14	Grommet, 4"	9910216
3	3	Clearance Light, 2.5", Red	9910224
4	7	Grommet, 2.5"	9910217
5	8	Light, 4", Red	9910226
6	2	Light, Clear Backup, 4"	9910458
7	1	Light, License Plate	9910310
8	8	Alarm, Backup	9910168
9	4	Light, 2.5" Amber	9910225
10	1	Strobe	9910467
11	2	Marker, Side, Oval, Amber	9910459
12	2	Grommet, Oval	9910215
13	2	Work light, 5" Square LED	9910483

**Note**  
Item 1. Available in a simultaneous strobe or alternating strobe. For replacement lights, contact your dealer representative identifying which combination is relative to your vehicle.  
  
Numerous combinations of rotating strobe lights, flashers, work lights, light protection systems and other lighting systems are available upon request.  
  
Contact your LOADMASTER dealer representative for details



Lighting

Light Pods, Components, and Parts



**Lighting**

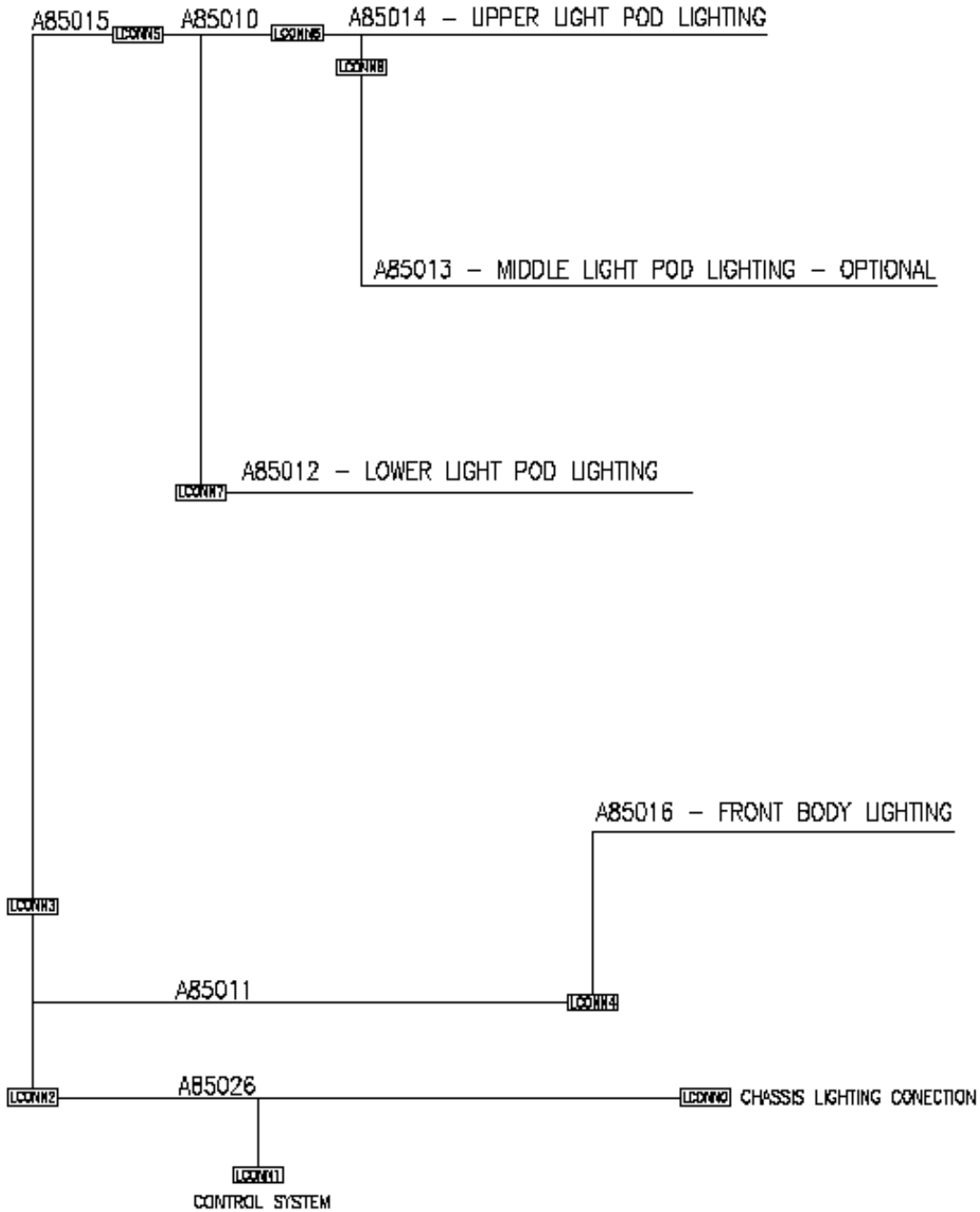
Light Pods, Components, and Parts

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Lighting

Light Pods, Components, and Parts

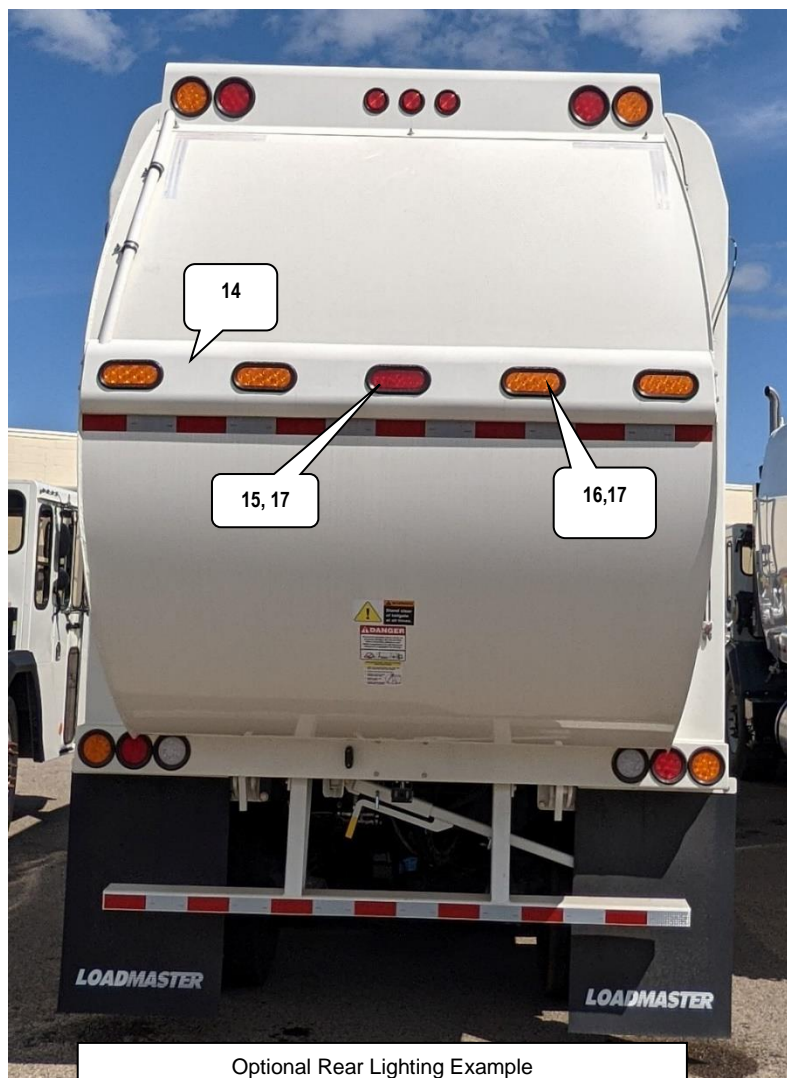


**Lighting**

Light Pods, Components, and Parts

**OPTIONAL LIGHTING EXAMPLES**

No.	Qty	Description	Part #
14	1	Middle Light Pod Weldment 5 Hole	A12019
15	1	Light, Red Stop and Tail Light	9910265
16	4	Light, Side Marker	9910227
17	5	Grommet, Oval	9910215



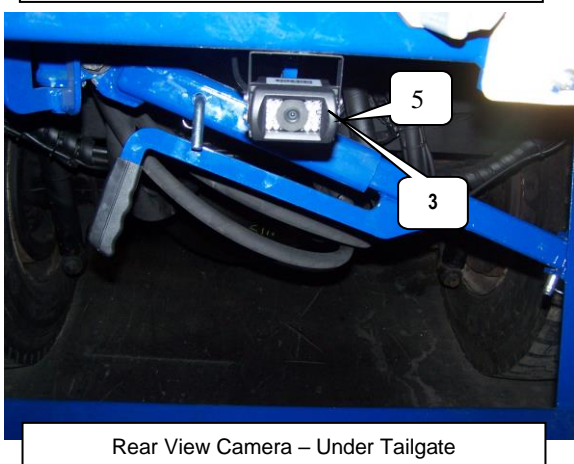
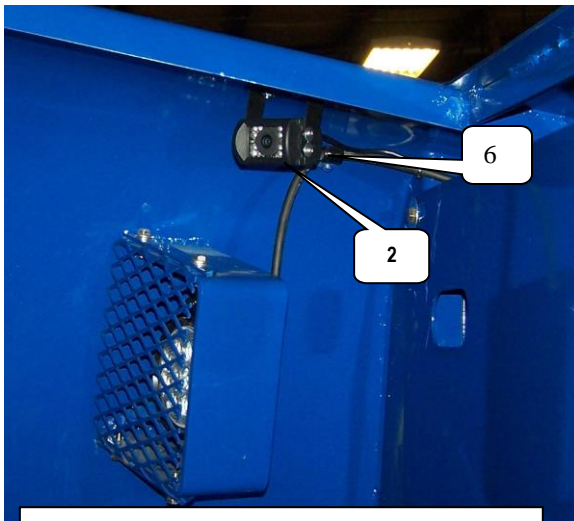
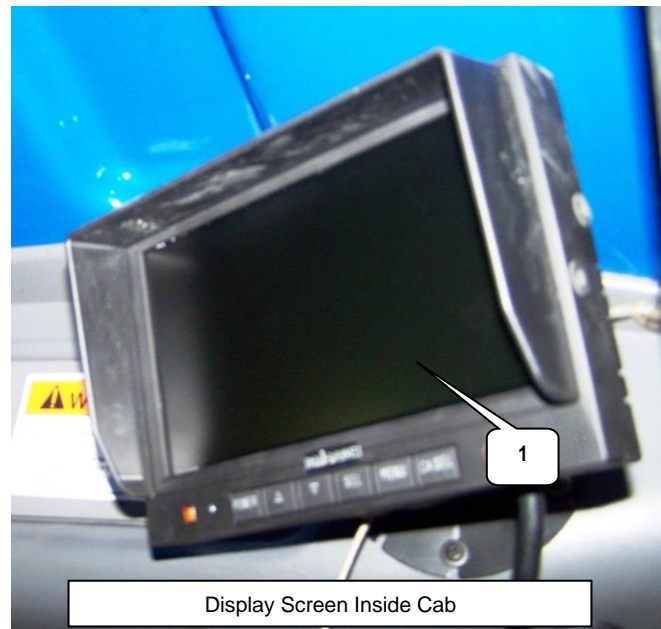
Optional Rear Lighting Example



**Eclipse ASL Camera System**

Camera System Locations and Parts Numbers

No.	Qty	Description	Part Number
<b>Ray View Camera System Shown</b>			
1	1	Ray View 7" Quad Control Color Display Monitor (Standard Equipment)	9960385
2	1	Ray View Hopper Camera – Color (Standard Equipment)	9960356
3	1	Ray View Rear Camera – Color (Standard Equipment)	9960356
4	1	Ray View Traffic Side Camera – Color (Optional)	9960356
5	2	Ray View 65 Foot Cable	8800769
6	1	Ray View 16 Foot Cable	9960383



**Note:**

**Other model camera systems and combinations are available. Please consult with your Loadmaster Sales Representative.**

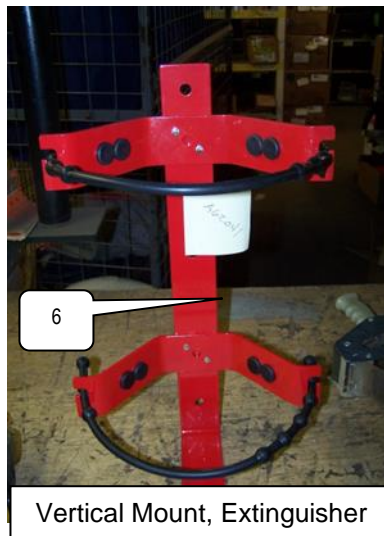
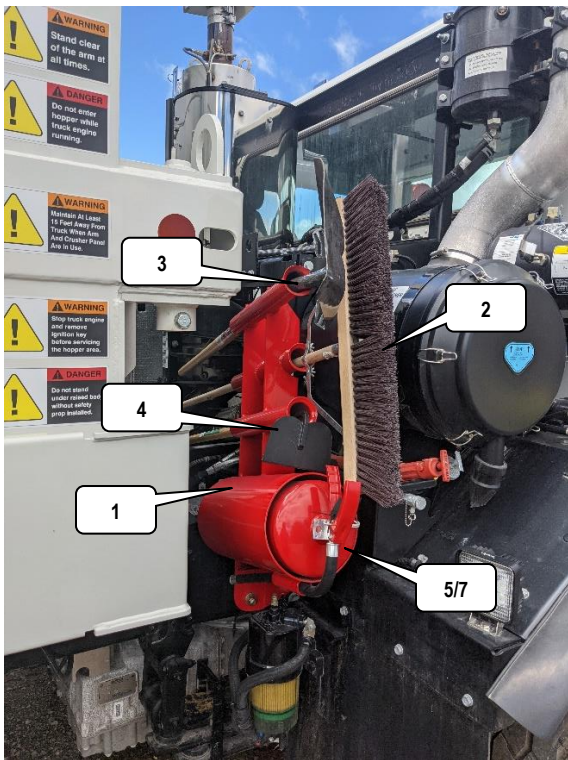
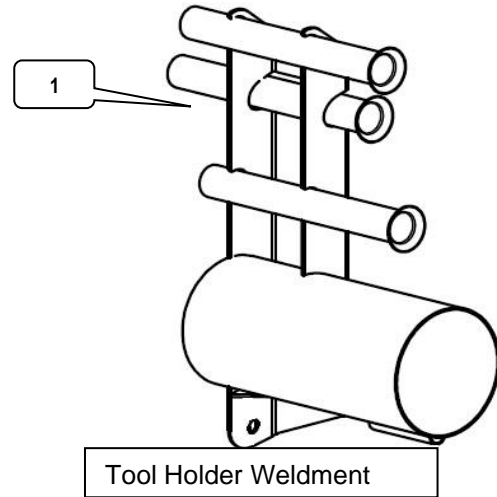
**Loadmaster can custom set-up your system to automatically switch to the hopper when your lift arm is in action and revert back to the normal screen settings after the arm has returned to down position.**



**OPTIONS**

**NOTE: Loadmaster offers a number of options for the ASL. Tool holding devices, tools, storage boxes, and a variety of safety equipment. All can be custom mounted per customer requirements. Please contact you Loadmaster Sales representative to finalize your selection.**

No.	Qty	Description	Part #
1	1	Holder, Tool	A10035
2	1	Push Broom	A60006
3	1	Flat Shovel, Long Handle	A60008
4	1	Hoe, Flat Bottom	A60007
5	1	Extinguisher, 20#	9960321
6	1	Mount, 10# Extinguisher	9960378
7	1	Extinguisher, 10#	9960180



**OPTIONS**

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**SAFETY EQUIPMENT OPTIONS:**

**Triangle Kit – 9960124**  
**Mounting Bracket Available**

**First Aid Kit – 9960429**  
**Mounting Bracket Available**

**Fire Extinguisher – 10# and 20#**

**Water Cooler with Mounting Bracket**

**Rotating Strobe Light(s).**

**Brush Guards for Lighting**

**Additional Exterior Work Lighting**

**Chain hangers, tool boxes and other items are available for your use.**

**Loadmaster offers a Clear Coat Option to overcoat decals and labeling.**

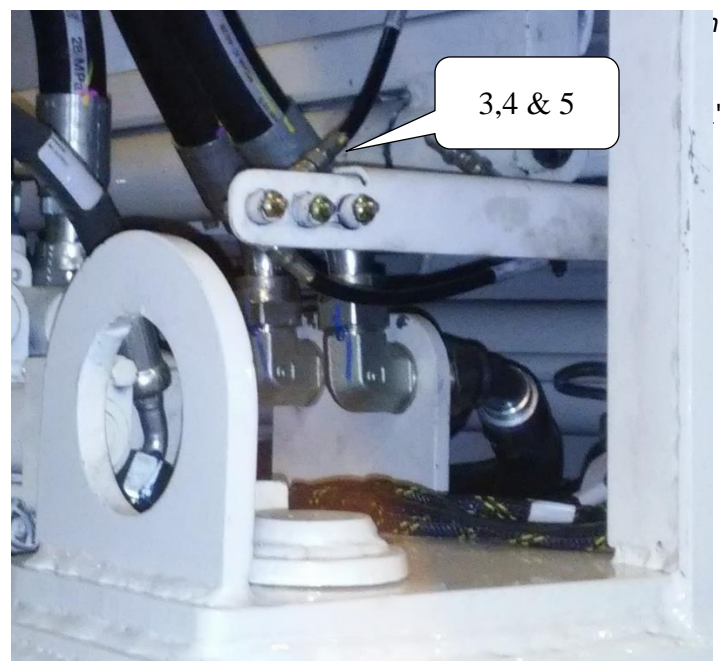
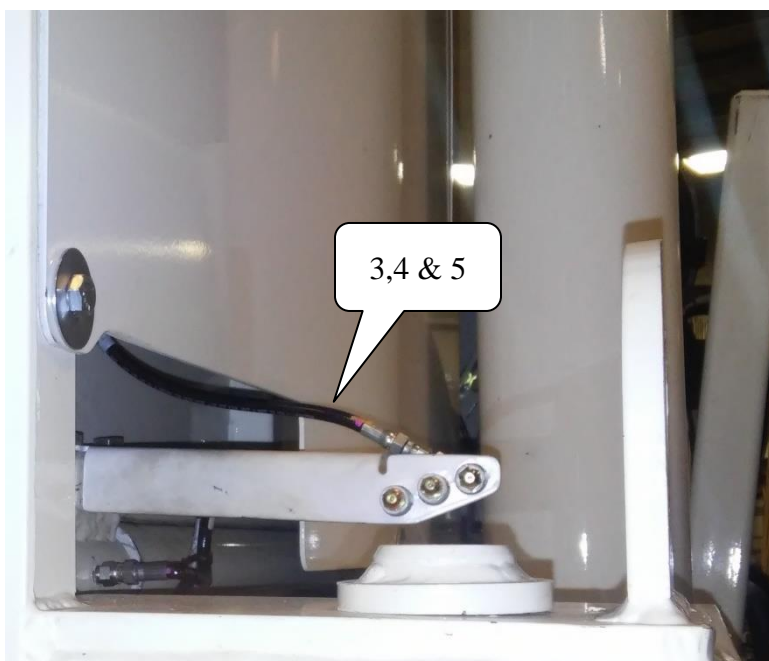
**Special Signage Packages are available – Example: On the front of the body “YOUR CITY NAME” in stainless steel.**

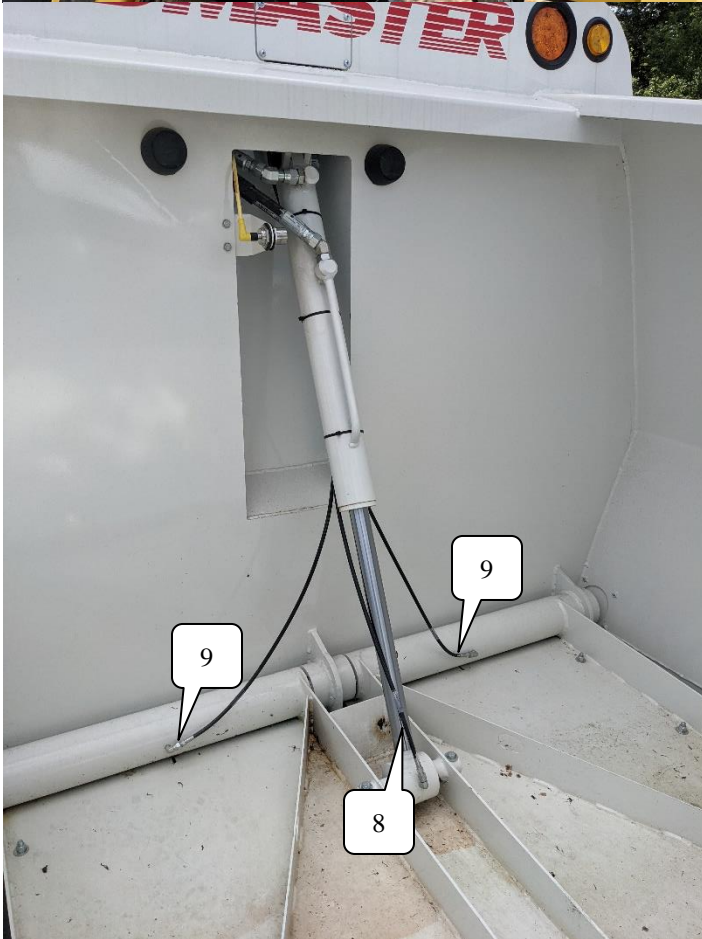
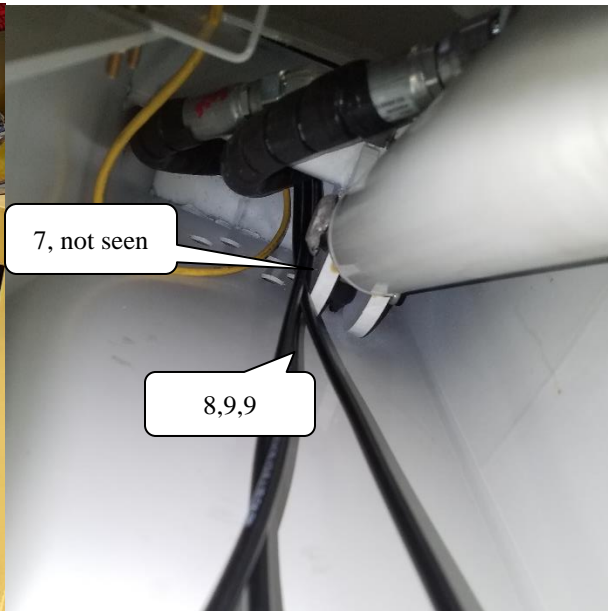
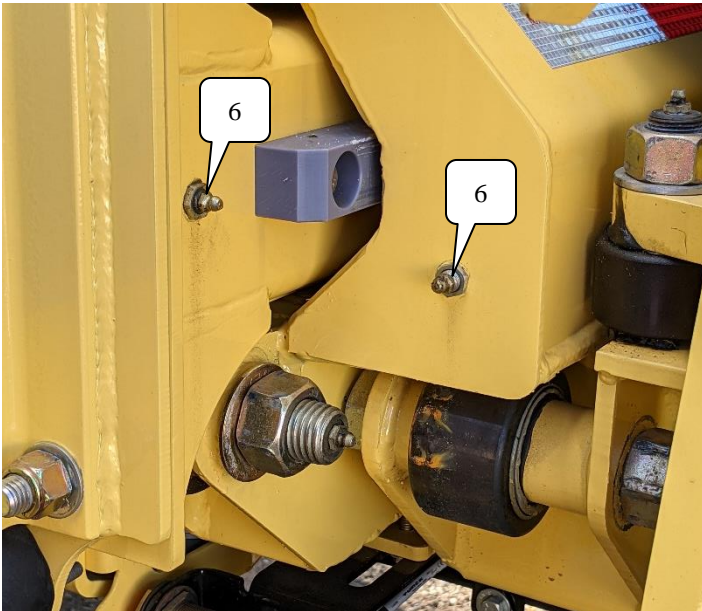
**Other option(s) available upon request.**



Triangle Kit 9960124

No.	Part Number	Qty	Use	Length
1	A98001	2	TG pin	96"
2	A98002	2	TG rod cylinder	66 1/2"
3	A98003	2	Follower roller	42"
4	A98009	2	follower hinge	10"
5	A98010	2	Packer pins	56"
6	A98012	4	rail	80"
7	A98013	1	crusher base cylinder	141"
8	A98014	1	crusher rod cylinder	195"
9	A98015	2	crusher hinge	186"






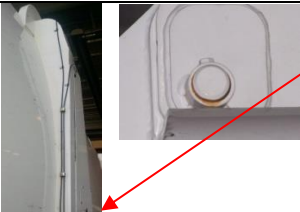
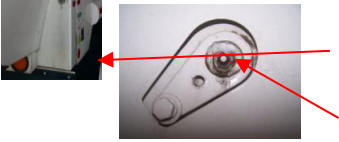

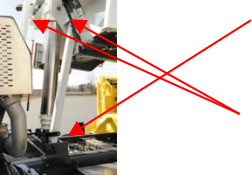
## Service Schedule

Frequency	Initial Break In		Daily	Monthly	6 Months	2 Years
	Initial Break-In Service, in Addition To Regular Service Intervals					
PTO Hours	1 month	6 months	5	100	750	3000
Cycles			600	12000	75000	300000
Service						
Grease Arm and Packer			X			
Check Hydraulic Oil			X			
Clean Behind Packer & Trough			X			
Check For Hydraulic Leaks			X			
Check Safety Decals			X			
Check T/G & Backup Alarms			X			
Grease Body				X		
Grease Tailgate				X		
Check Tailgate & Cylinder Pins/Retainers				X		
Check Hydraulic lines & Hoses				X		
Check Wires & Connections				X		
Check Fasteners				X		
Check Prox Switch Distance and Function				X		
Shim Arm Slide Plastics		X				X
Replace Hydraulic Filters	X				X	
Replace Air Breather Cap					X	
Change Hydraulic Oil		X				X
Change Suction Strainer						X

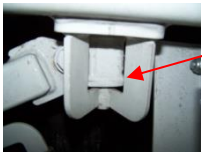


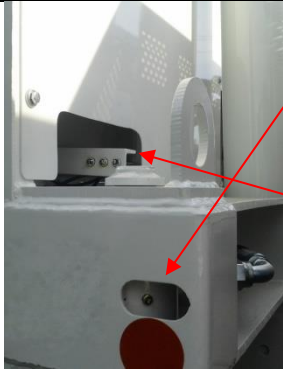




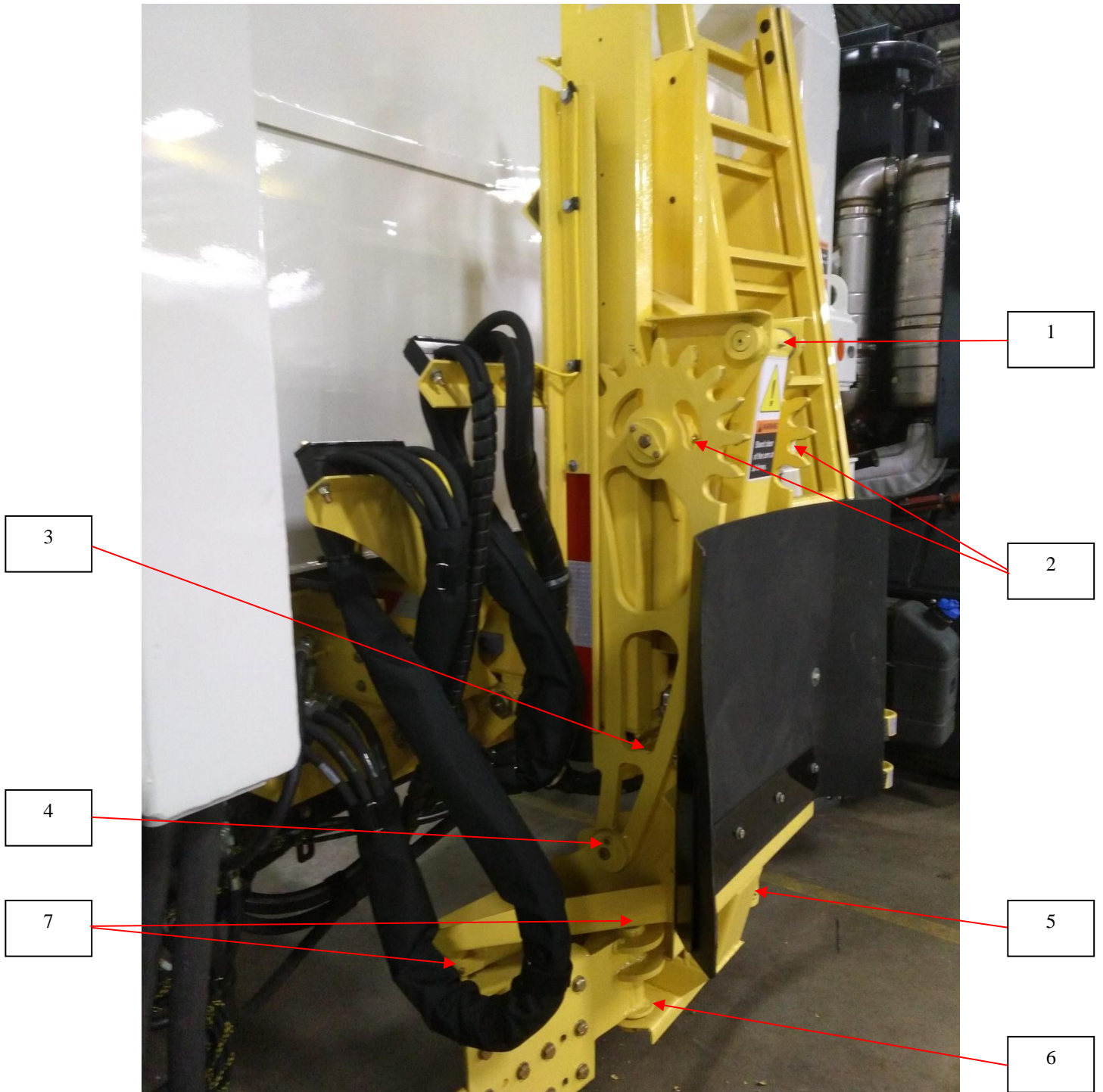
**Daily Pre-Use Inspections should be conducted.**

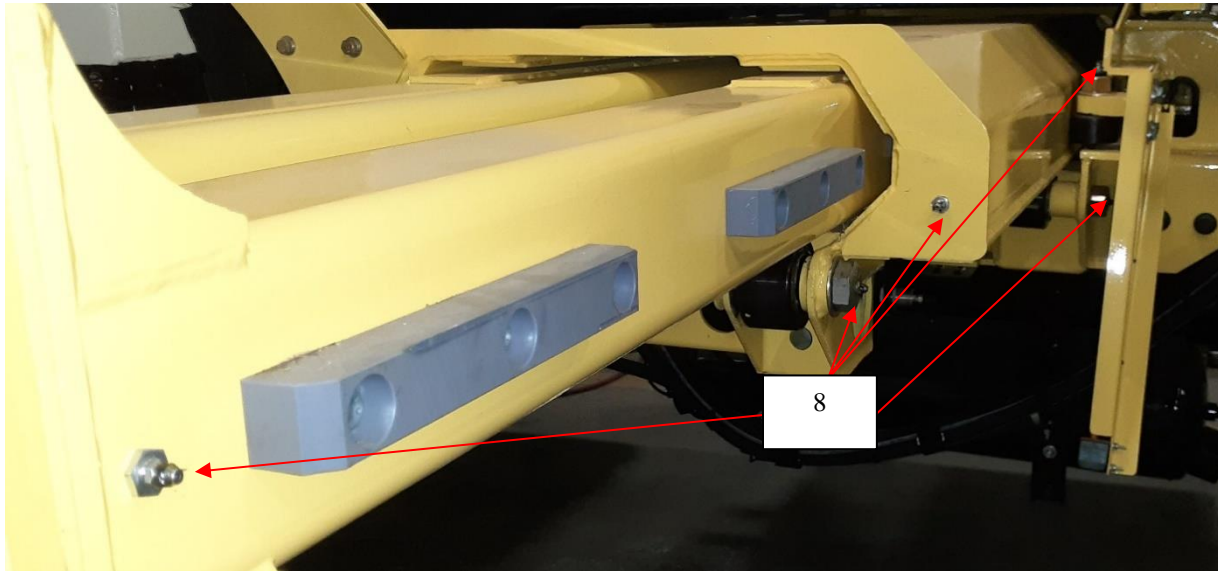
- Inspect for loose bolts, nuts, cracked, bent, or broken parts or hardware.
- Use Extreme Pressure Moly-Graph Multi-Purpose Grease.
- Always check oil level.
  - Cylinders in retracted position on flat, level ground
- Inspect the entire unit for damage or leaks in hoses, valves, or connections.
- Validate all lights, switches, cameras, and electrical is working properly.
- Always follow Lock-Out - Tag Out procedures when performing any maintenance or work on the unit and consider all energies.
- Use of the Body and Tailgate props is mandatory when accessing these areas for your safety.
- Check fire extinguisher(s).

umber	Picture	Description of Lubrication Point	Lubrication Frequency	Comments
1		Drive shaft– front mounted pump from engine to pump  Grease universal joints – each end  Grease spline end of shaft	Monthly	Universal joints - grease – 2  Grease spline - 1
2		Upper tail gate hinge pins at top of tail gate/body remote grease lines  Right and Left sides	Monthly	Pins - 2
3		Tailgate cylinder pins  Upper remote grease line  Lower direct to pin	Monthly	Pins – 2 top and 2 bottom
4		Oil Tank – Check level in sight glass.  All cylinders in retracted position.  Level ground with ambient oil temp.	Daily	MV AW #32  Or  AW #46
5		Grease body lift cylinder pins  Right and left sides – pivot points at the cylinder / body attachment	Monthly	Fitting at Pin - Base 1  Upper fitting blocks - 2

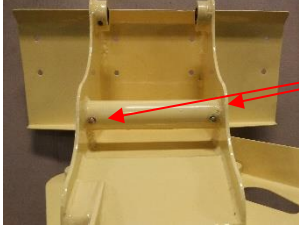
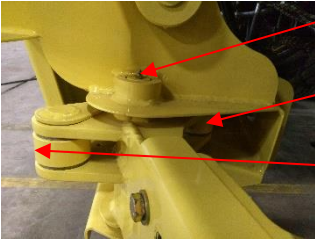
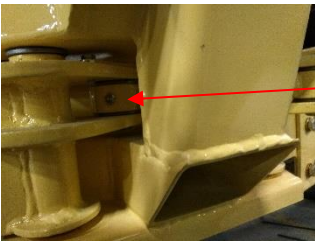
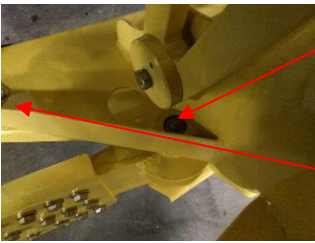



6		Grease prop rod assy. under tail gate at rear of truck near center for tail gate prop	Monthly	1 - Fitting
7		Grease the crusher panel hinge pin and cylinder pins at remote grease line fittings right side, rearward of the arm	Monthly	2 fittings feed the hinge pin  2 fittings feed the upper- and lower-cylinder pins
8		Lubricate the body prop bar at the pin near the bottom	Monthly	Lubricate pin
9		Packer cylinder pin grease fitting base end on both sides.  Remote lines for the packer cylinder rod pin, follower panel hinge and follower panel rollers on both sides.	Daily	2 - Base pin fittings – right and left  6 – Remote line fittings – right and left
10		Grease two fittings on the hopper door	Monthly	2- Fittings on hinge - Hopper access door
11		Grease two fittings at body hinge pins	Monthly	2 - Body hinge pins at chassis frame – rear under tail gate at chassis mount.





<p>1</p>		<p>Grease upper control link</p>	<p>Grease Daily</p>
<p>2</p>		<p>Grease main axle bushings</p>	<p>Grease Daily</p>
<p>3</p>		<p>Grease lower control link</p>	<p>Grease Daily</p>

<p>4</p>		<p>Grease lower axle shaft</p>	<p>Grease Daily</p>
<p>5</p>		<p>Grease forward grabber pivot Grabber Cylinder Rod Eye. Grabber link forward end</p>	<p>Grease Daily</p>
<p>6</p>		<p>Grabber link rearward end</p>	<p>Grease Daily</p>
<p>7</p>		<p>Grease rearward grabber pivot Grabber Cylinder base Eye.</p>	<p>Grease Daily</p>
<p>8</p>		<p>Grease Front and Back Sides, 10 Zerks</p>	<p>Grease Daily</p>

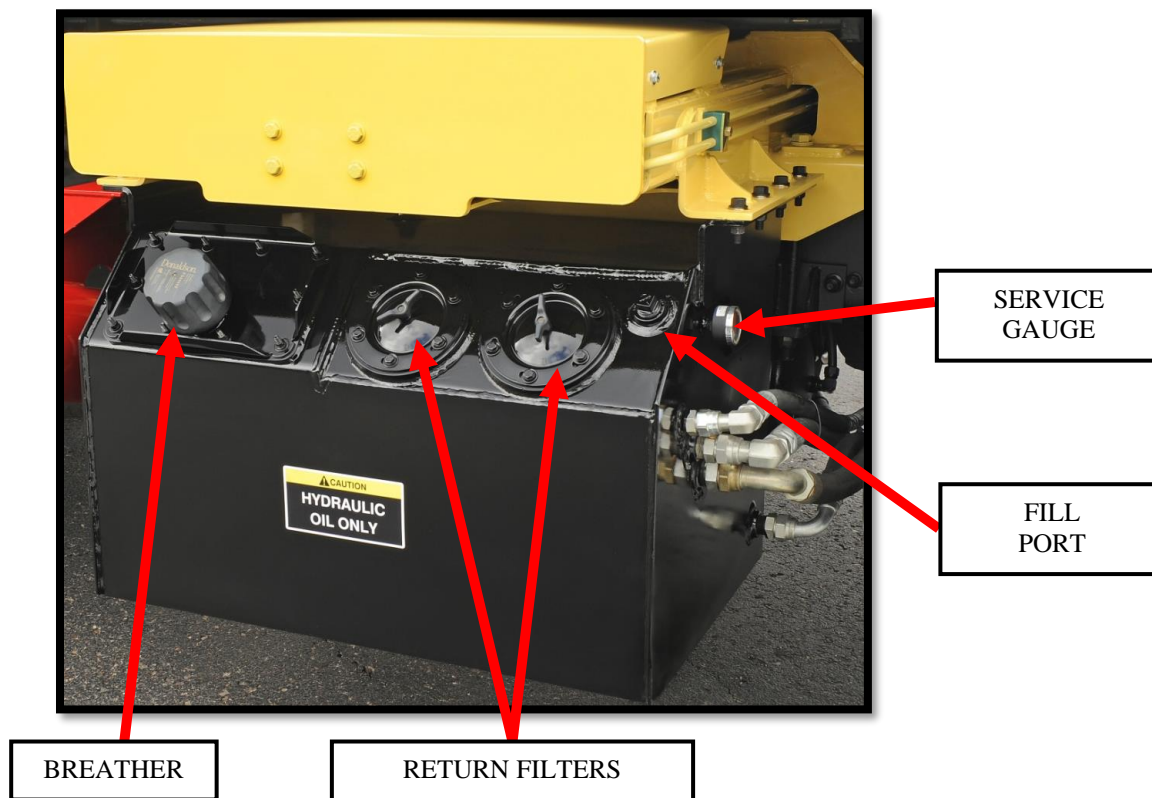
## Cleaning the Automated Side Loader

1. Shut-off the engine on the automated side loader and remove the ignition key.
2. Keep the ignition key with you at all times.
3. Using the proper clean-out tools, remove trash through the clean-out trough.

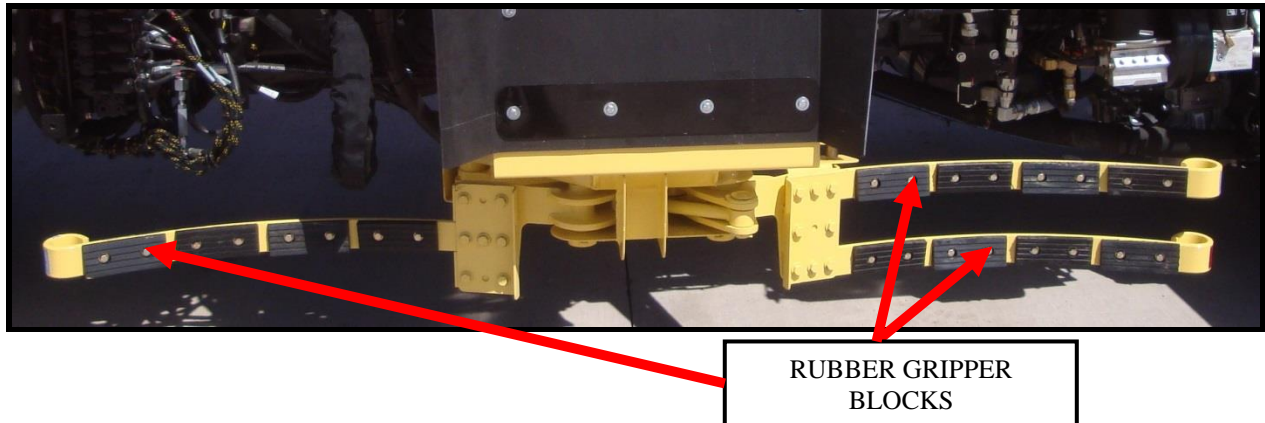


## ASL Maintenance

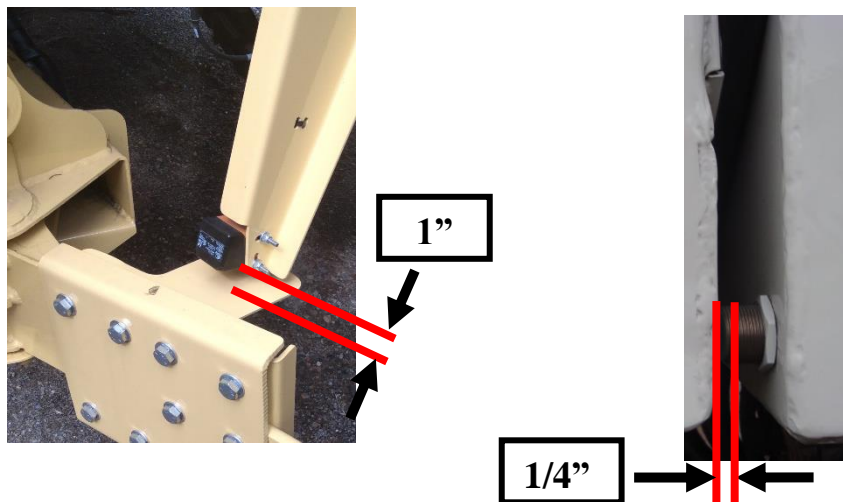
1. Breather and Filters. Check hydraulic return line filters. Visually observing the service gauge on the side of the hydraulic tank will aid in determining filter change status. Inspect hydraulic tank breather for damage or clogging.



2. Gripper Blocks. Visually inspect the gripper blocks for excessive wear. Excessive wear is defined when pieces of rubber on the gripper blocks is missing and/or the block fastener heads are exposed. Replace immediately.



3. Proximity Switches. The Loadmaster Eclipse ASL has proximity switches located at multiple locations on the body and/or automated arm. For a Threaded 30 mm Proximity Switch the **preferred distance** between the switch and the target is  $1/4''$ . The maximum distance between the switch and the target is  $3/8''$ . For a Square Proximity Switch the **preferred distance** between the switch and the target is  $1''$ . The maximum distance between the switch and the target is  $1-1/8''$ . Adjust as necessary.



4. Camera System. The Loadmaster *Eclipse* can be supplied with a variety of camera configurations. The standard camera configuration has one camera mounted in the hopper and a rear back-up camera. Please refer to the camera's owner's manual of the Camera System for adjustment of the settings.