

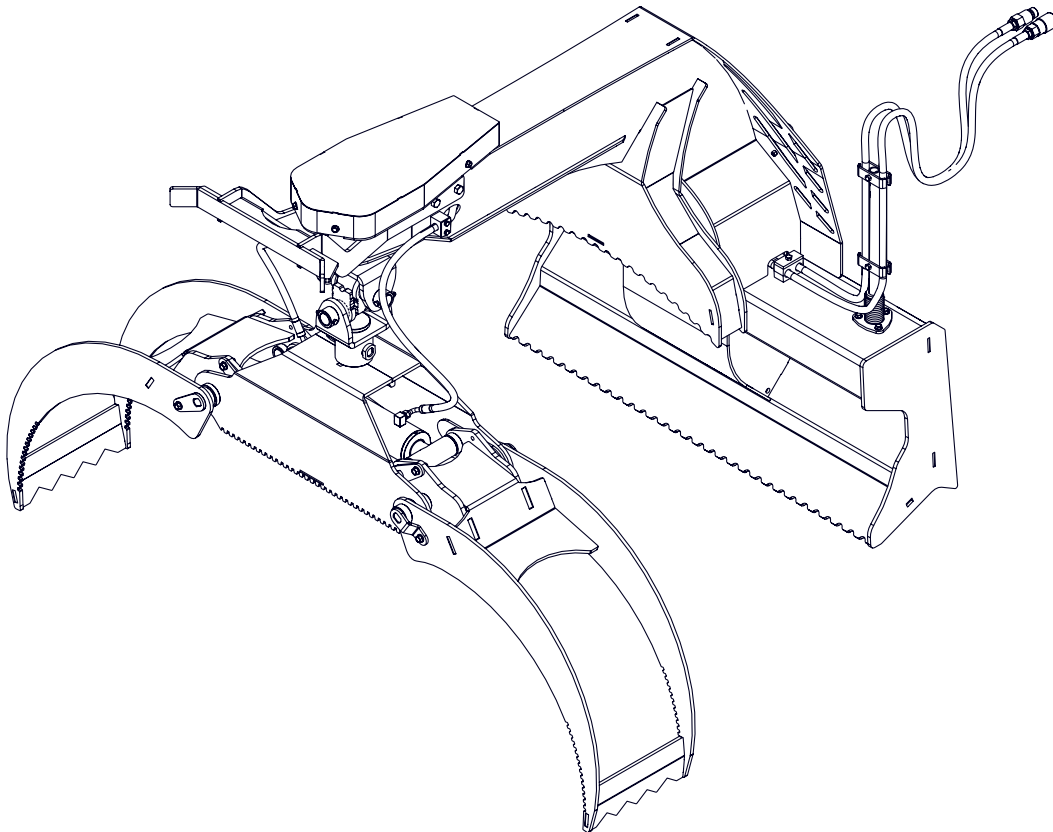


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LXG430S

Skid Steer Grapple

Starting with S/N's
430S001 and on



Refer to the operators
manual for safe
operation and
maintenance

LXG430S RevA1.Parts Book .090916
Rev # 170317

Foreword

EMB Mfg. has prepared this parts manual to assist customers in ordering quality OEM replacement parts.

Proper and regular service and replacing old, worn or broken parts with the correct OEM parts are essential to prolonging the life of your EMB product. Please refer to this manual before ordering any replacement parts.

All information contained in this parts manual is based on the latest product specification available at the time of printing this manual. If your product differs from the specifications contained within this manual contact EMB Mfg. for information.

EMB reserves the right to alter specifications on their products at any time.

Reproduction of this parts manual of any kind is prohibited without prior written permission from EMB Mfg.

For parts and information please contact your dealer. If your dealer is no longer available please go to our website: <http://www.wallensteinequipment.com> and click on "FIND A DEALER NEAR YOU" for information on a local dealer.

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Maintenance should be performed by
trained personnel only.



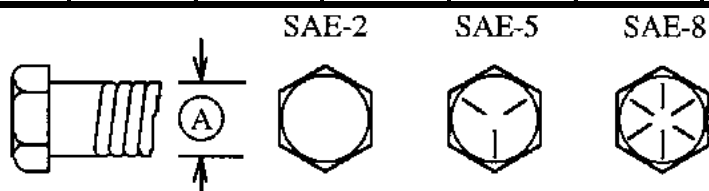
Refer to the operators
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Bolt Torque**CHECKING BOLT TORQUE**

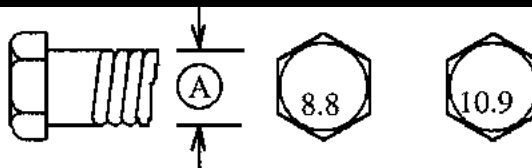
The tables shown below give correct torque values for various bolts and capscrews. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

ENGLISH TORQUE SPECIFICATIONS

Bolt Diameter "A"	Bolt Torque*					
	SAE 2 (N.m) (lb-ft)		SAE 5 (N.m) (lb-ft)		SAE 8 (N.m) (lb-ft)	
1/4"	8	6	12	9	17	12
5/16"	13	10	25	19	36	27
3/8"	27	20	45	33	63	45
7/16"	41	30	72	53	100	75
1/2"	61	45	110	80	155	115
9/16"	95	60	155	115	220	165
5/8"	128	95	215	160	305	220
3/4"	225	165	390	290	540	400
7/8"	230	170	570	420	880	650
1"	345	225	850	630	1320	970

**METRIC TORQUE SPECIFICATIONS**

Bolt Diameter "A"	Bolt Torque*			
	8.8 (N.m) (lb-ft)		10.9 (N.m) (lb-ft)	
M3	0.5	0.4	1.8	1.3
M4	3	2.2	4.5	3.3
M5	6	4	9	7
M6	10	7	15	11
M8	25	18	35	26
M10	50	37	70	52
M12	90	66	125	92
M14	140	103	200	148
M16	225	166	310	229
M20	435	321	610	450
M24	750	553	1050	774
M30	1495	1103	2100	1550
M36	2600	1917	3675	2710



Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

* Torque value for bolts and capscrews are identified by their head markings.

Hydraulic Fitting Torque

Tightening Flare Type Tube Fittings *

1. Check flare and flare seat for defects that might cause leakage.
2. Align tube with fitting before tightening.
3. Lubricate connection and hand tighten swivel nut until snug.
4. To prevent twisting the tube(s), use two wrenches. Place one wrench on the connector body and with the second tighten the swivel nut to the torque shown.

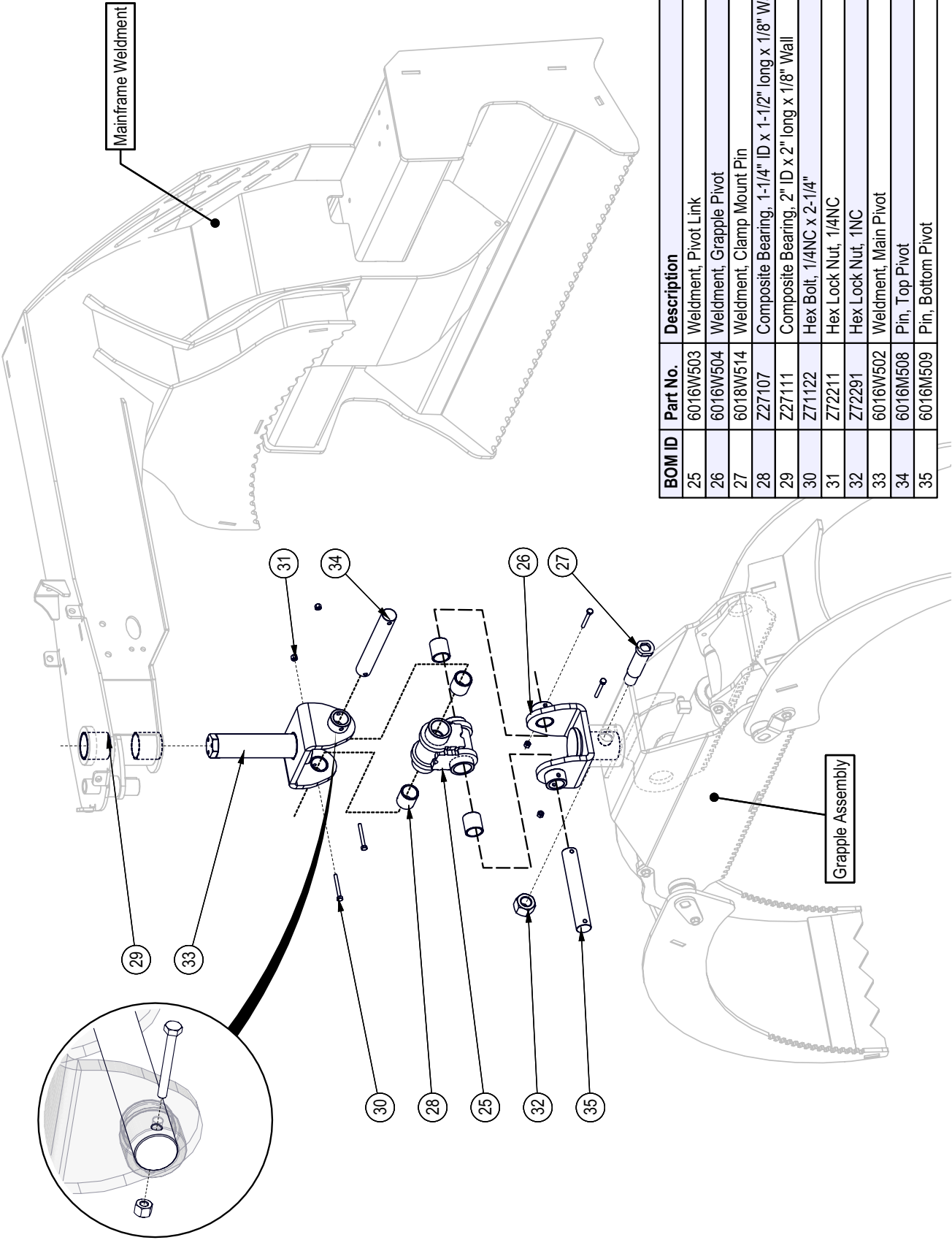
Tube Size OD	Nut Size Across Flats	Torque Value•		Recommended Turns To Tighten (After Finger Tightening)	
		(N.m)	(lb-ft)	(Flats)	(Turn)
3/16	7/16	8	6	1	1/6
1/4	9/16	12	9	1	1/6
5/16	5/8	16	12	1	1/6
3/8	11/16	24	18	1	1/6
1/2	7/8	46	34	1	1/6
5/8	1	62	46	1	1/6
3/4	1-1/4	102	75	3/4	1/8
7/8	1-3/8	122	90	3/4	1/8

The torque values shown are based on lubricated connections as in reassembly.

Main Frame Assembly

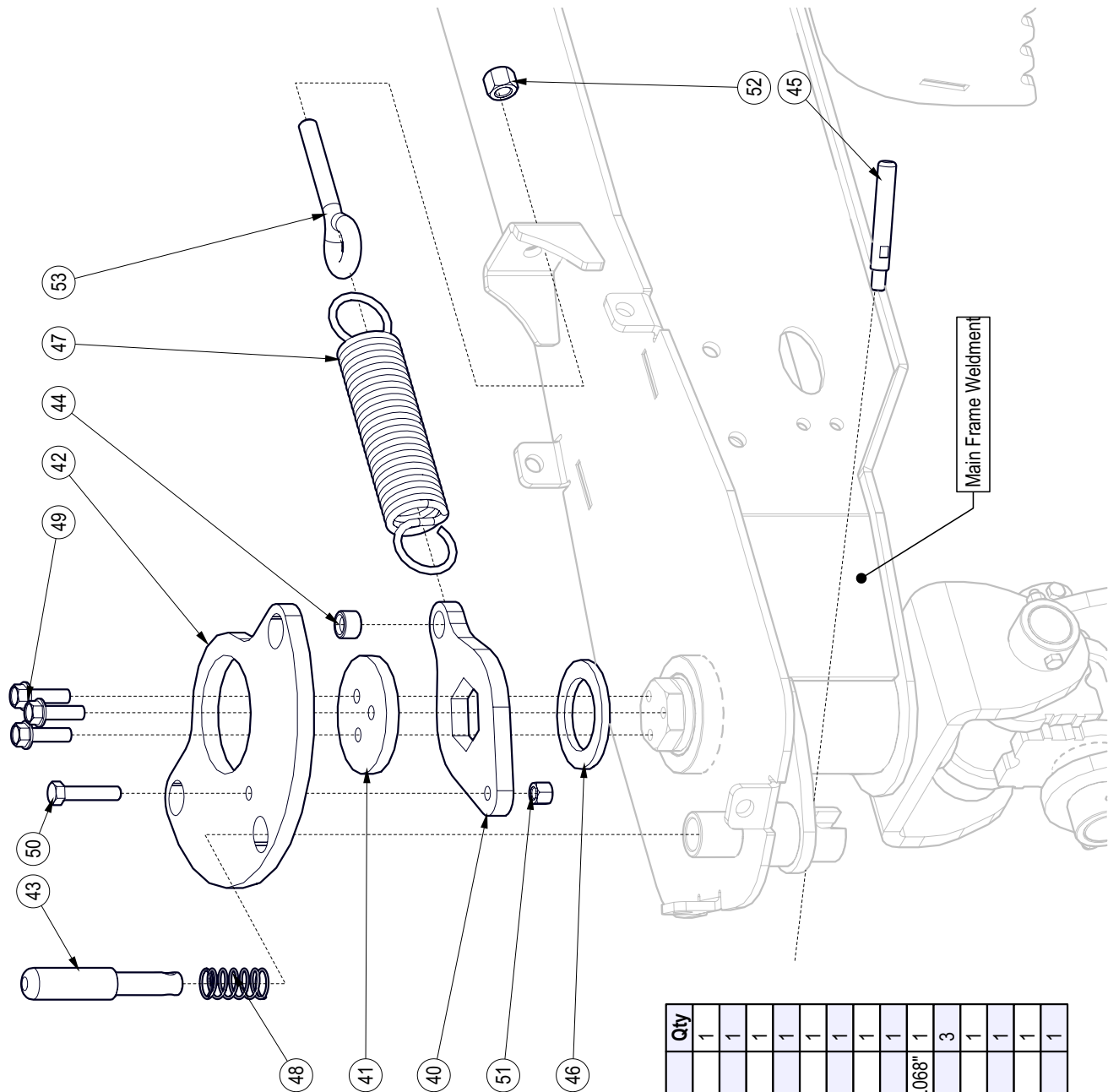
BOM ID	Part No.	Description	Qty
1	3011L176	Clamp, Two Hose	4
2	6016W505	Weldment, Push Bar	1
3	6016W506	Weldment, Spring Guard	1
4	6071W102	Hose Mount Whip	1
5	6071W701	Weldment, Mainframe	1
6	6073L517	Plate, Lower Hydraulic Cover	1
7	Z71122	Hex Bolt, 1/4NC x 2-1/4"	4
8	Z71217	Hex Bolt, 5/16NC x 1-3/4"	2
9	Z71225	Hex Bolt, 5/16NC x 2-1/2"	1
10	Z71568	Hex Bolt, 1/2NC x 7"	2
11	Z72211	Hex Lock Nut, 1/4NC	2
12	Z72221	Hex Lock Nut, 5/16NC	2
13	Z72251	Hex Lock Nut, 1/2NC	2
14	Z72957	Rivet Nut, 5/16NC x 312	8
15	Z72962	Rivet Nut, 1/4NC x 260	4
16	Z76111	Flange Bolt, 1/4NC x 3/4"	2
17	Z76125	Flange Bolt, 5/16NC x 1"	11
18	Z79454	Single Hose Clamp, 11/16" OD	2
19	Z79464	Double Hose Clamp, 13/16" OD	1
20	Z96505	Manual Tube, 2" Short	1

Pivot Assembly Detail



BOM ID	Part No.	Description	Qty
25	6016W503	Weldment, Pivot Link	1
26	6016W504	Weldment, Grapple Pivot	1
27	6018W514	Weldment, Clamp Mount Pin	1
28	Z27107	Composite Bearing, 1-1/4" ID x 1-1/2" long x 1/8" Wall	4
29	Z27111	Composite Bearing, 2" ID x 2" long x 1/8" Wall	2
30	Z71122	Hex Bolt, 1/4NC x 2-1/4"	4
31	Z72211	Hex Lock Nut, 1/4NC	4
32	Z72291	Hex Lock Nut, 1NC	1
33	6016W502	Weldment, Main Pivot	1
34	6016M508	Pin, Top Pivot	1
35	6016M509	Pin, Bottom Pivot	1

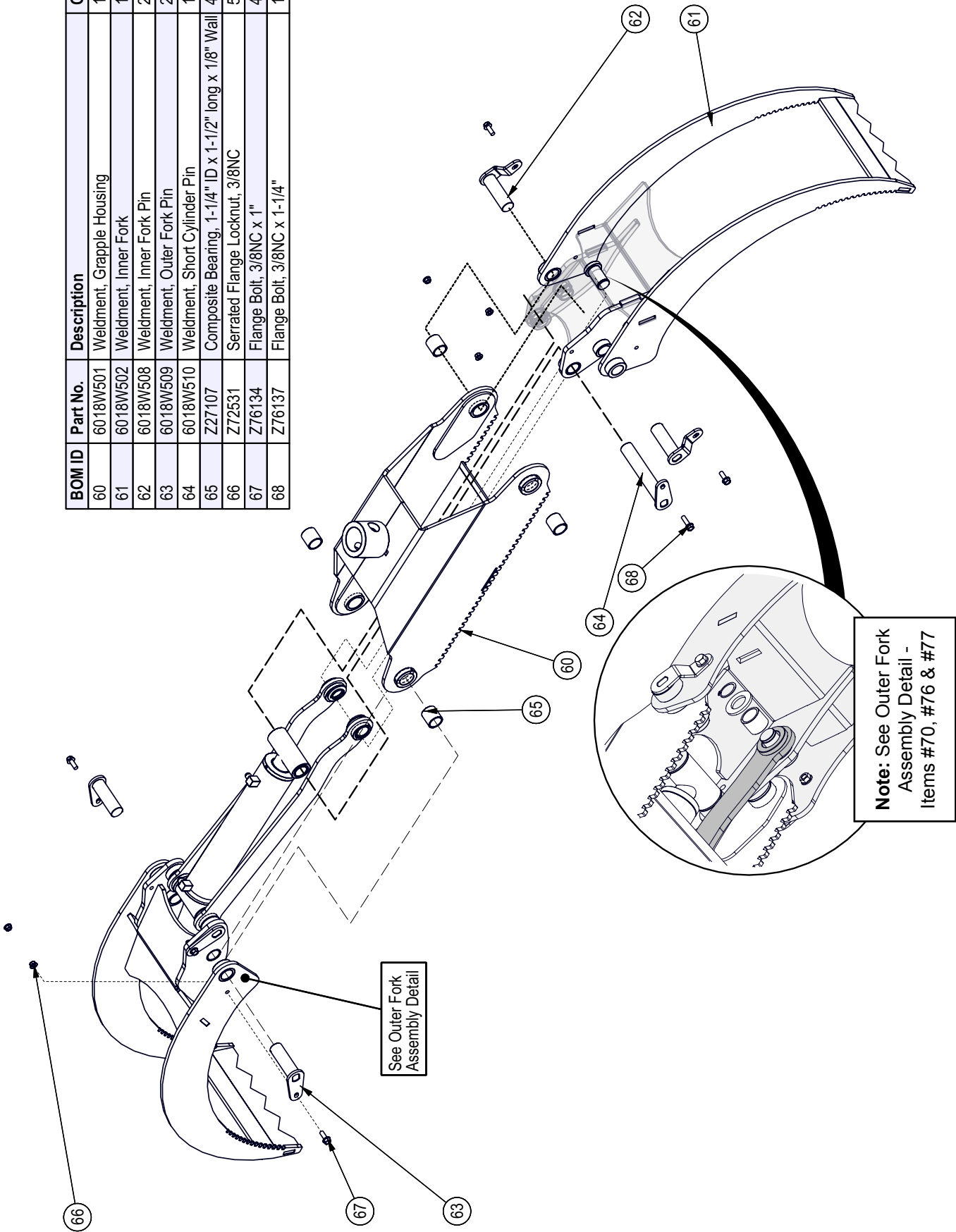
Return Lock Assembly Detail



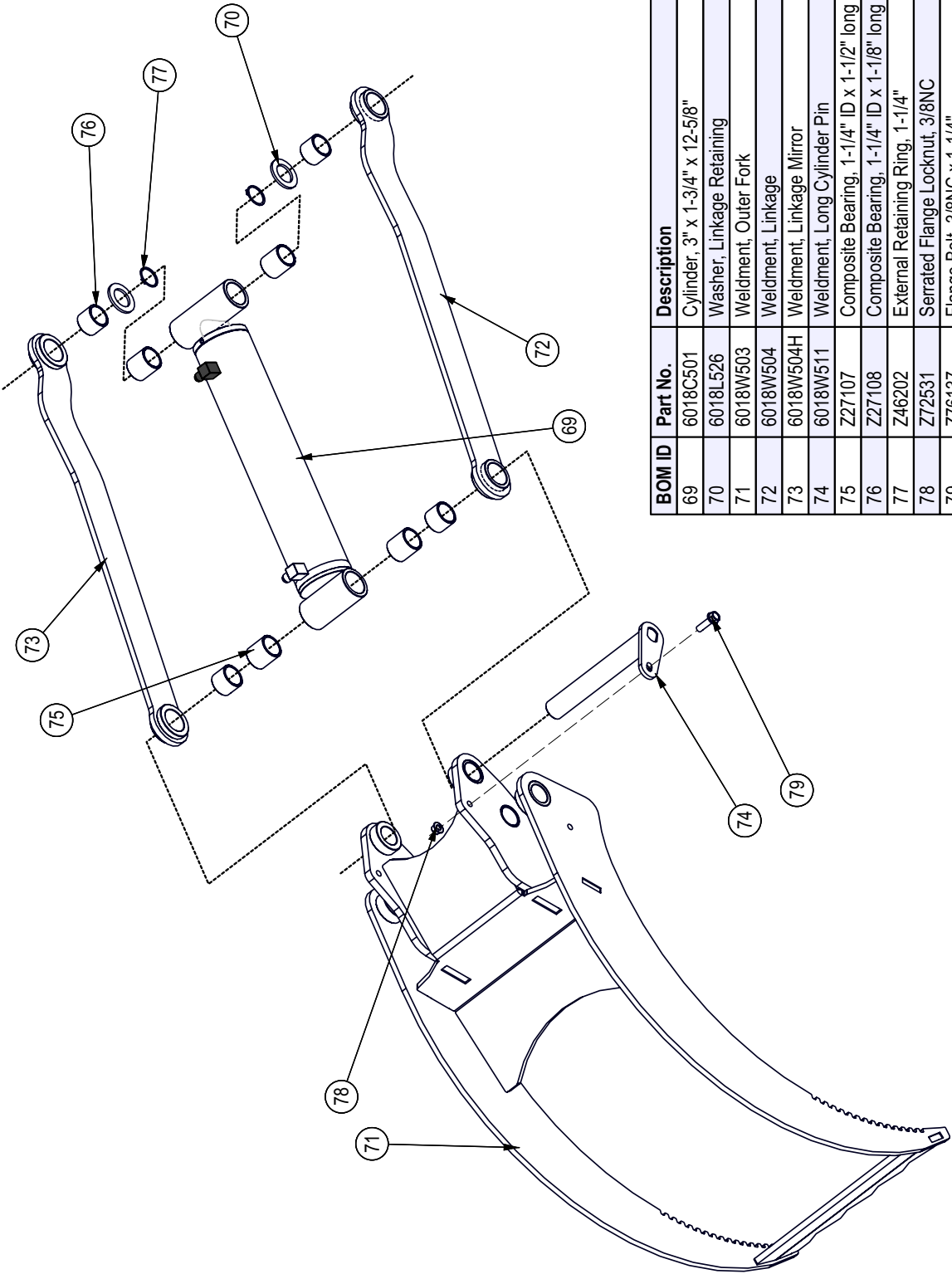
BOM ID	Part No.	Description	Qty
40	6016L502	Plate, Spring Flange	1
41	6016L503	Plate, Main Pivot Keeper	1
42	6016L505	Plate, Lockout Position	1
43	6016M504	Pin, Grapple Lock	1
44	6016M505	Bushing, Spring	1
45	6016M511	Lever, Grapple Lock	1
46	Z22403	Thrust Washer, 2-1/16" ID x 0.236"	1
47	Z31502	Ext Spring, 1-3/4" OD x 9" x .207"	1
48	Z32306	Comp Spring, 0.845" OD x 1-3/4" x 0.068"	1
49	Z76137	Flange Bolt, 3/8NC x 1-1/4"	3
50	Z71317	Hex Bolt, 3/8NC x 1-3/4"	1
51	Z72231	Hex Lock Nut, 3/8NC	1
52	Z72251	Hex Lock Nut, 1/2NC	1
53	Z76551	Eye Bolt, 1/2NC x 3"	1

Grapple Assembly

BOM ID	Part No.	Description	Qty
60	6018W501	Weldment, Grapple Housing	1
61	6018W502	Weldment, Inner Fork	1
62	6018W508	Weldment, Inner Fork Pin	2
63	6018W509	Weldment, Outer Fork Pin	2
64	6018W510	Weldment, Short Cylinder Pin	1
65	Z27107	Composite Bearing, 1-1/4" ID x 1-1/2" long x 1/8" Wall	4
66	Z72531	Serrated Flange Locknut, 3/8NC	5
67	Z76134	Flange Bolt, 3/8NC x 1"	4
68	Z76137	Flange Bolt, 3/8NC x 1-1/4"	1

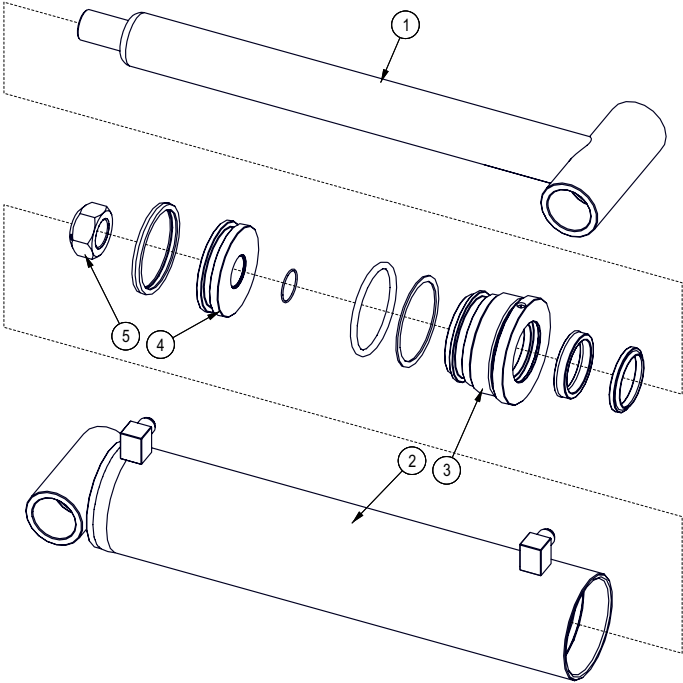


Outer Fork Assembly Detail



BOM ID	Part No.	Description	Qty
69	6018C501	Cylinder, 3" x 1-3/4" x 12-5/8"	1
70	6018L526	Washer, Linkage Retaining	2
71	6018W503	Weldment, Outer Fork	1
72	6018W504	Weldment, Linkage	1
73	6018W504H	Weldment, Linkage Mirror	1
74	6018W511	Weldment, Long Cylinder Pin	1
75	Z27107	Composite Bearing, 1-1/4" ID x 1-1/2" long x 1/8" Wall	4
76	Z27108	Composite Bearing, 1-1/4" ID x 1-1/8" long x 1/8" Wall	4
77	Z46202	External Retaining Ring, 1-1/4"	2
78	Z72531	Serrated Flange Locknut, 3/8NC	1
79	Z76137	Flange Bolt, 3/8NC x 1-1/4"	1

Cylinder Assembly



Seal Kit #SLK-3017

BOM ID	Part No.	Description	Qty
1	6018C5013	Rod, 1-3/4" 1"	1
2	6018C5014	Barrel, 3"	1
3	G300-175S	Gland, 3" x 1-3/4"	1
4	P100-300SP	Piston, 3" Bore	1
5	Z722909G8	Hex Top-lock Nut, 1-14NF G8	1

Hydraulic Hose List

Part No.	Description	Qty
6071F701	3/8" Hose, 45FJIC06 x MP08 x 156	2

Hydraulic Schematic

Fitting Identification

Connection Type

NPT – National Pipe Thread
JIC – Tube Flare
ORB – "O" Ring Boss
HB – Hose Barb

Connection Type

NPT

12

Connection Size

Grapple

6018C501 Cylinder 3" x 1-3/4" x 12-5/8"

NPT 08

JIC 08

JIC 08

Flat Face Couplers

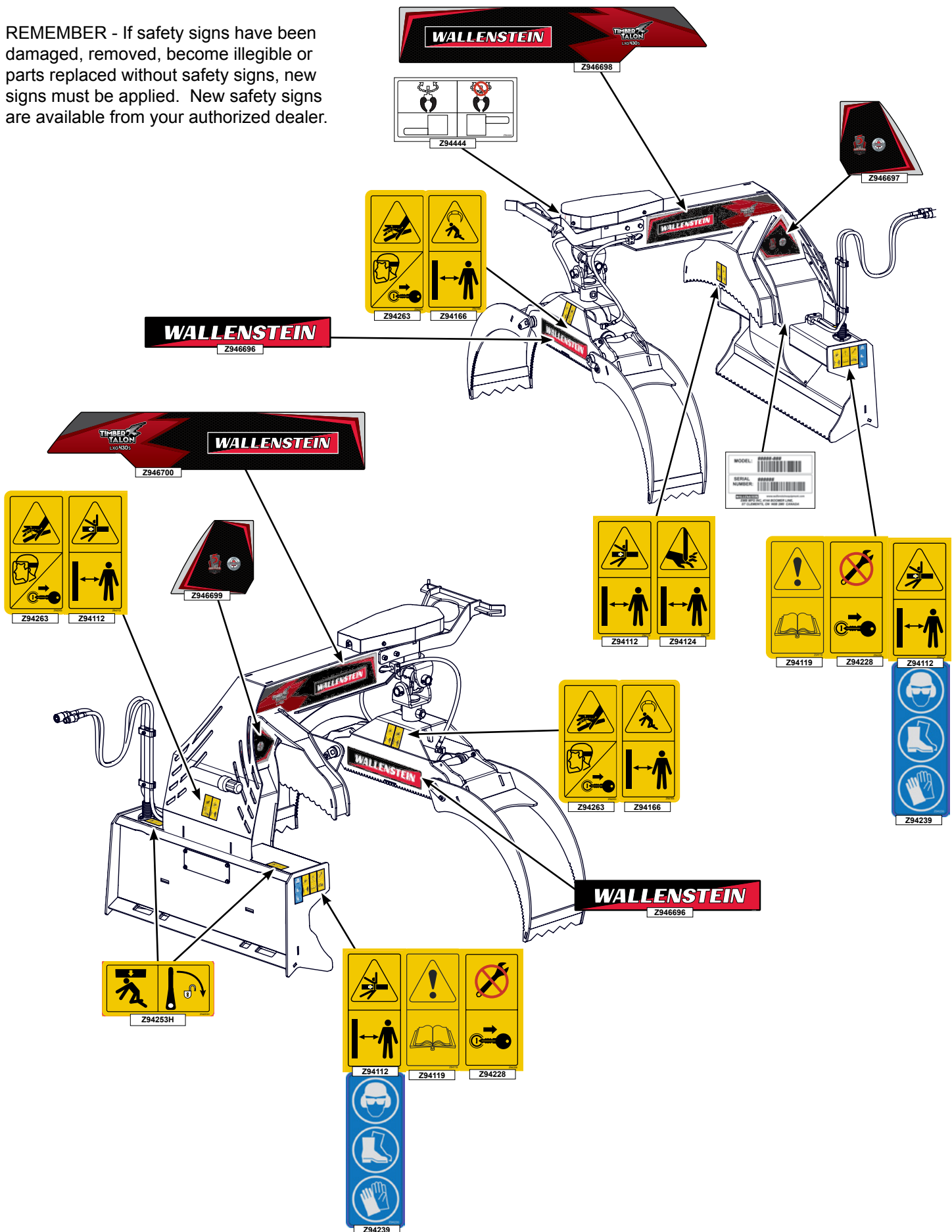
6071F701 156"

6071F701 156"

Valve Assembly Location Detail

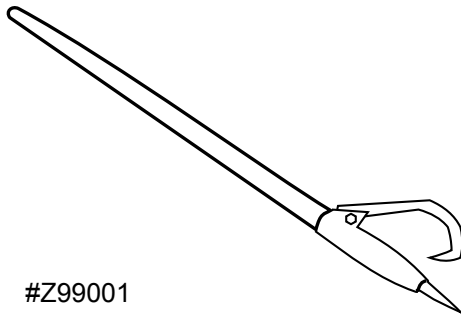
Labels

REMEMBER - If safety signs have been damaged, removed, become illegible or parts replaced without safety signs, new signs must be applied. New safety signs are available from your authorized dealer.



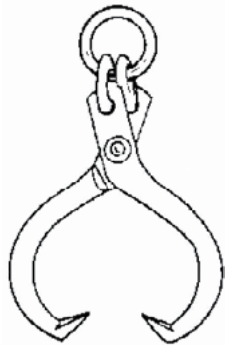
Accessories

Call your dealer for pricing and availability



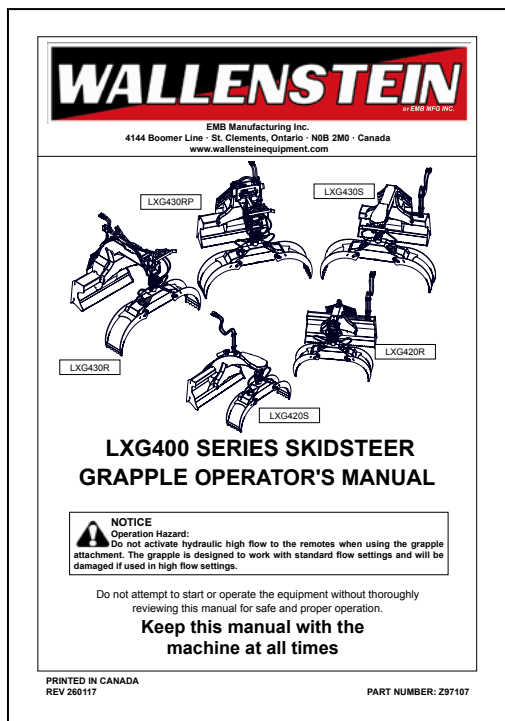
#Z99001 48" LOG PEAVEY

Quality 2 3/8" diameter hardwood handle, with a Western Duck Bill Hook.
Helps to move those heavy log timbers into position.



#Z99003 SKIDDING TONGS

Heavy Duty Forged Ring Skidding Tongs
Maximum Opening: 25"
Minimum Opening: 4-1/2"
Tough log skidding tongs are a quick and easy way to skid logs.



#Z97107 GRAPPLE OPERATOR'S MANUAL

Available as a download at
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