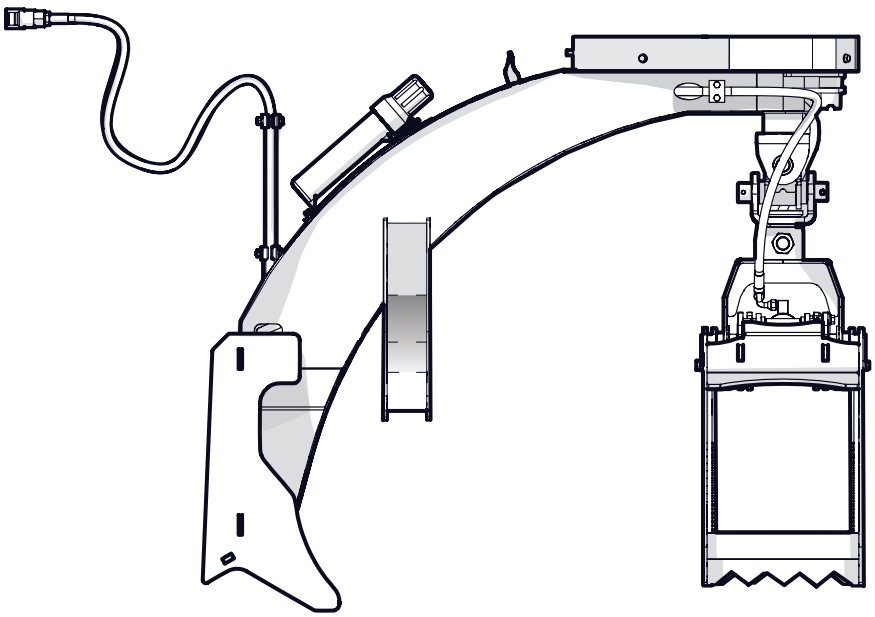
Part Number: 6071T500

PARTS MANUAL

Serial Number 420S001 & Up

LXG420S
SKID STEER GRAPPLE



WALLENSTEIN

Revision D Mar-2021

Foreword

This Wallenstein parts manual is prepared to assist customers in ordering quality OEM replacement parts.

Regular maintenance combined with replacing old, worn or broken parts with the correct OEM parts is essential in prolonging the life of your Wallenstein product. Refer to this manual to identify replacement parts.

To order parts, contact your Wallenstein dealer or distributor. Have the product model and serial number handy.

If your dealer is no longer available, please go to our website: http://wallensteinequipment.com and click on the Dealer Locator to find the nearest dealer.

All information contained in this parts manual is current as per the revision date at the bottom of the page. Wallenstein reserves the right to change product specifications at any time without notice.

If your product specifications differ from those contained in this manual, contact Wallenstein for current information.

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⚠ WARNING!

Refer to the operators manual for safe operation and maintenance.

Maintenance should be performed by trained personnel only.

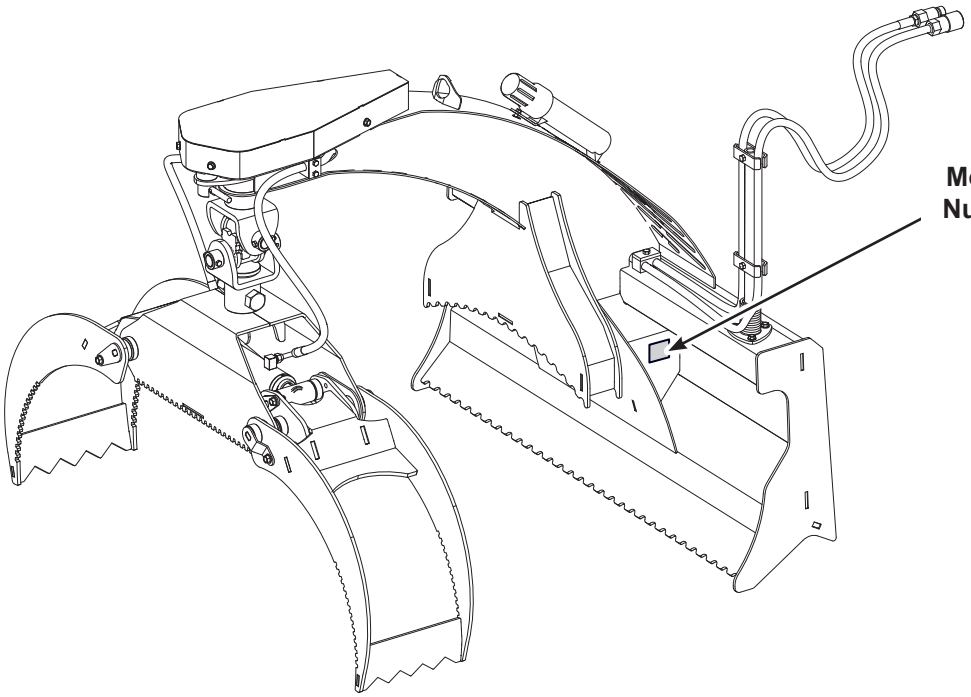
Serial Number Location

Always provide the model and serial number of your Wallenstein product when ordering parts or requesting service or other information. This information is found on the product information plate as shown below.

Record your product information here for future reference.

Model_____

Serial Number_____

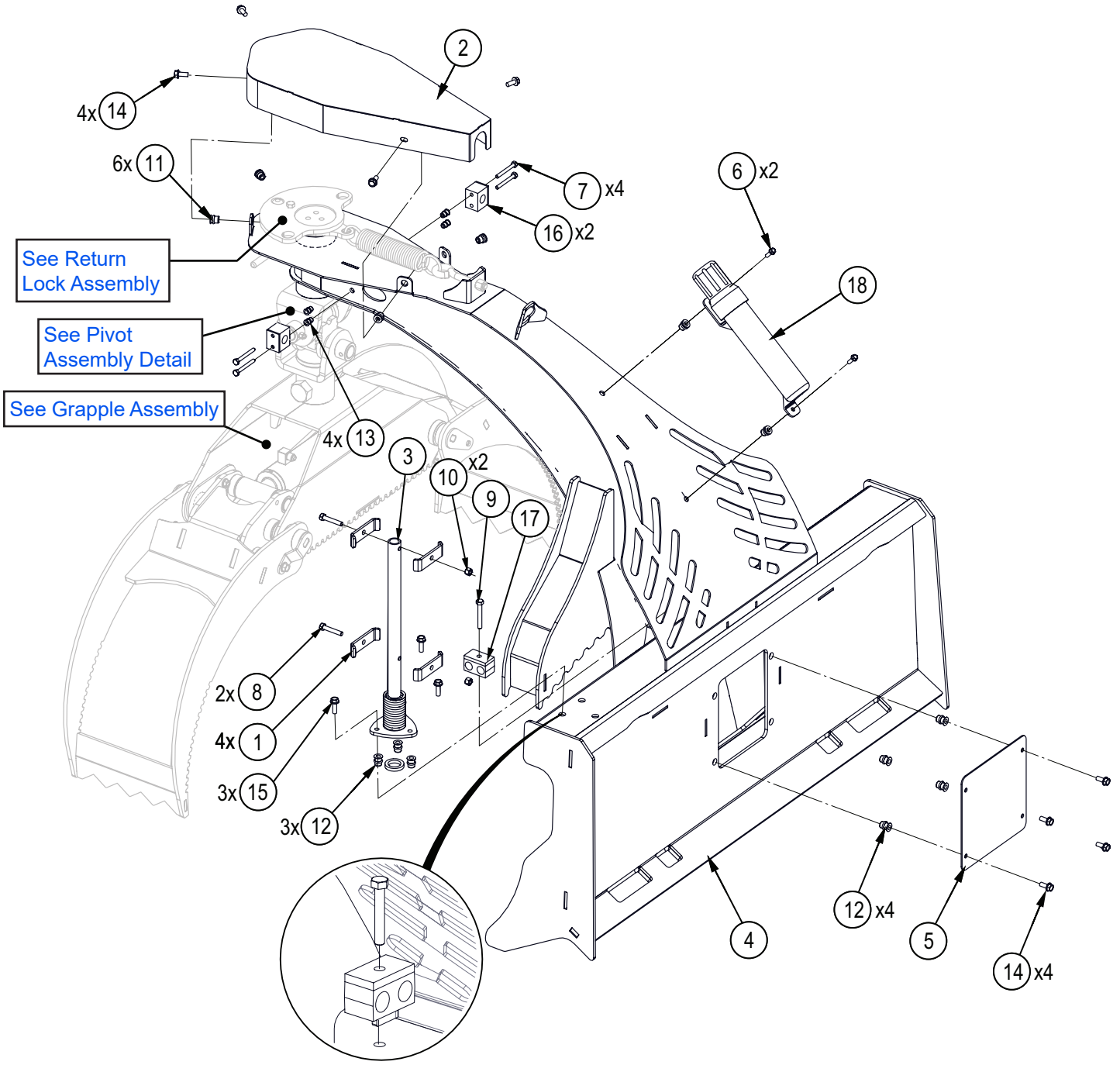


www.wallensteinequipment.com

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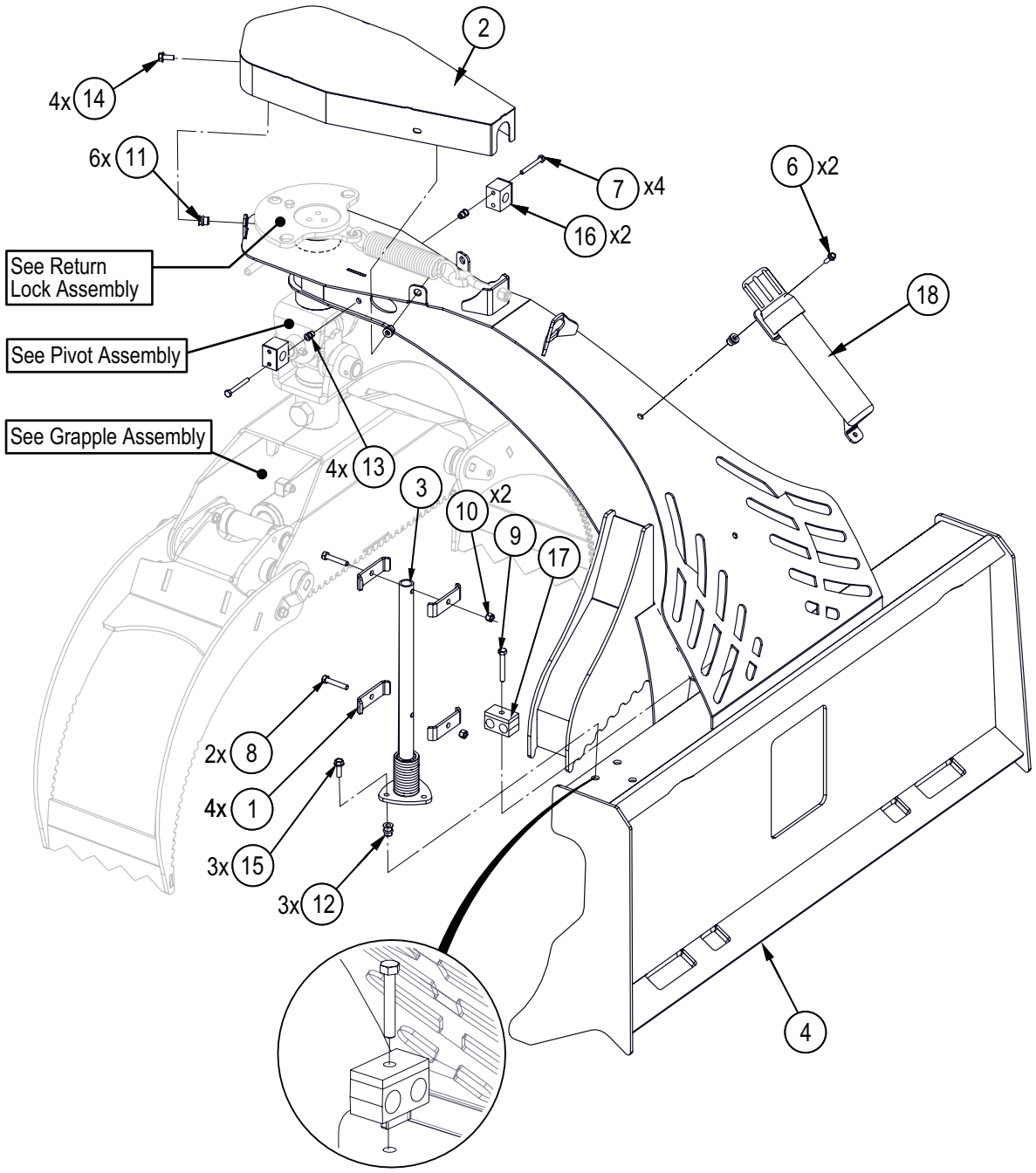
Main Parts S/N 420S001 to 420S037



Item No.	Part No.	Description	Qty
1	3011L176	Clamp, Two Hose	4
2	6016W006	Spring Guard	1
3	6071W102	Hose Mount Whip	1
4	6071W501	Mainframe	1
5	6073L014	Plate, Hydraulic Valve Cover	1
6	Z76111	Flange Bolt, 1/4NC x 3/4"	2
7	Z71122	Hex Bolt, 1/4NC x 2-1/4"	4
8	Z71217	Hex Bolt, 5/16NC x 1-3/4"	2
9	Z71222	Hex Bolt, 5/16NC x 2-1/4"	1
10	Z72221	Hex Lock Nut, 5/16NC	2

Item No.	Part No.	Description	Qty
11	Z72956	Rivet Nut, 5/16NC x 150	6
12	Z72957	Rivet Nut, 5/16NC x 312	7
13	Z72962	Rivet Nut, 1/4NC x 260	4
14	Z76121	Flange Bolt, 5/16NC x 3/4"	8
15	Z76125	Flange Bolt, 5/16NC x 1"	3
16	Z79454	Single Hose Clamp, 11/16" OD	2
17	Z79463	Double Hose Clamp, 11/16" OD	1
18	Z96505	Manual Tube, 2" Short	1

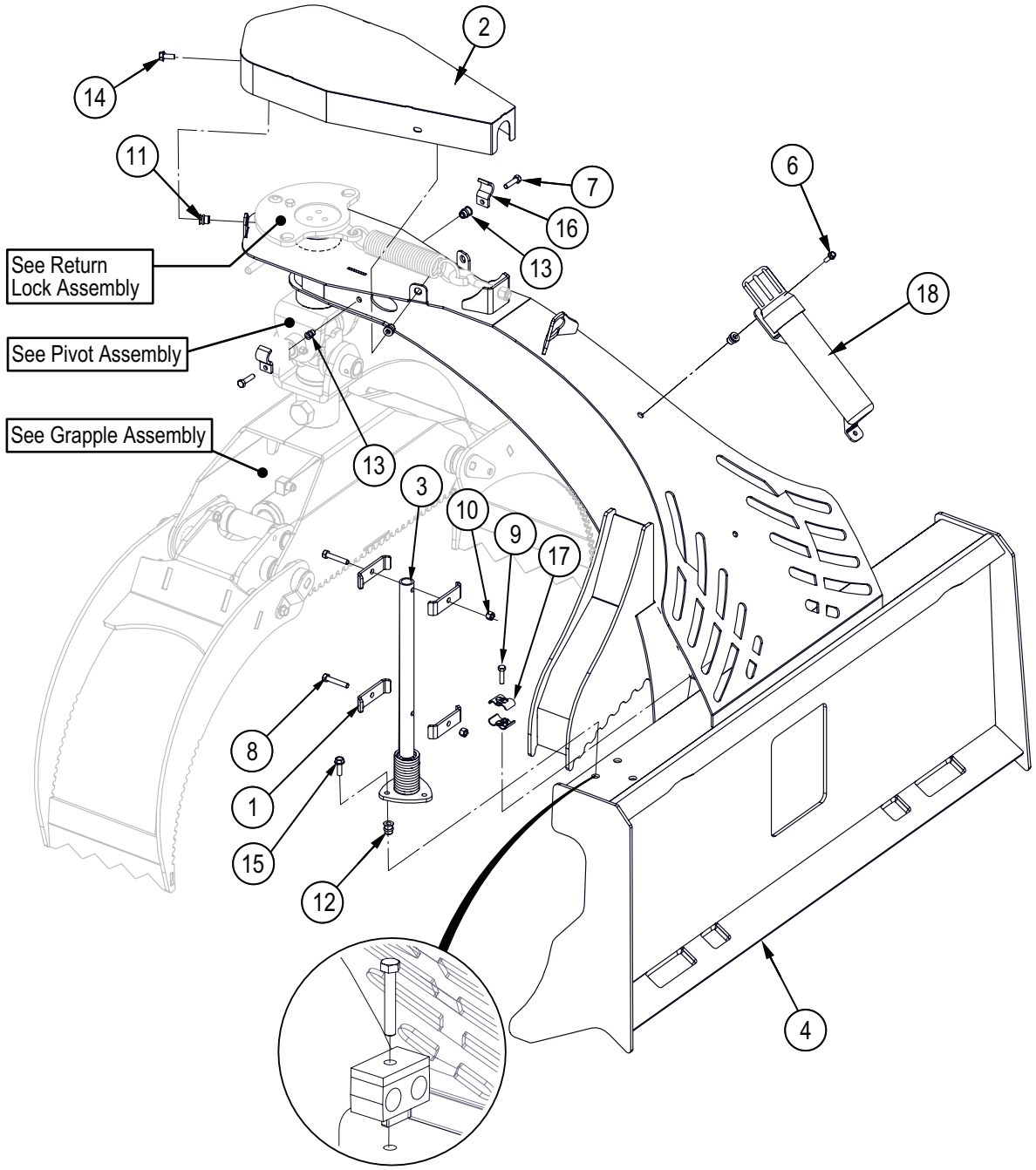
Main Parts S/N 420S038 to 420S058



Item No.	Part No.	Description	Qty
1	3011L176	Clamp, Two Hose	4
2	6016W006	Spring Guard	1
3	6071W102	Hose Mount Whip	1
4	6071W501	Mainframe	1
6	Z76111	Flange Bolt, 1/4NC x 3/4"	2
7	Z71122	Hex Bolt, 1/4NC x 2-1/4"	4
8	Z71217	Hex Bolt, 5/16NC x 1-3/4"	2
9	Z71222	Hex Bolt, 5/16NC x 2-1/4"	1
10	Z72221	Hex Lock Nut, 5/16NC	2

Item No.	Part No.	Description	Qty
11	Z72956	Rivet Nut, 5/16NC x 150	6
12	Z72957	Rivet Nut, 5/16NC x 312	3
13	Z72962	Rivet Nut, 1/4NC x 260	4
14	Z76121	Flange Bolt, 5/16NC x 3/4"	4
15	Z76125	Flange Bolt, 5/16NC x 1"	3
16	Z79454	Single Hose Clamp, 11/16" OD	2
17	Z79463	Double Hose Clamp, 11/16" OD	1
18	Z96505	Manual Tube, 2" Short	1

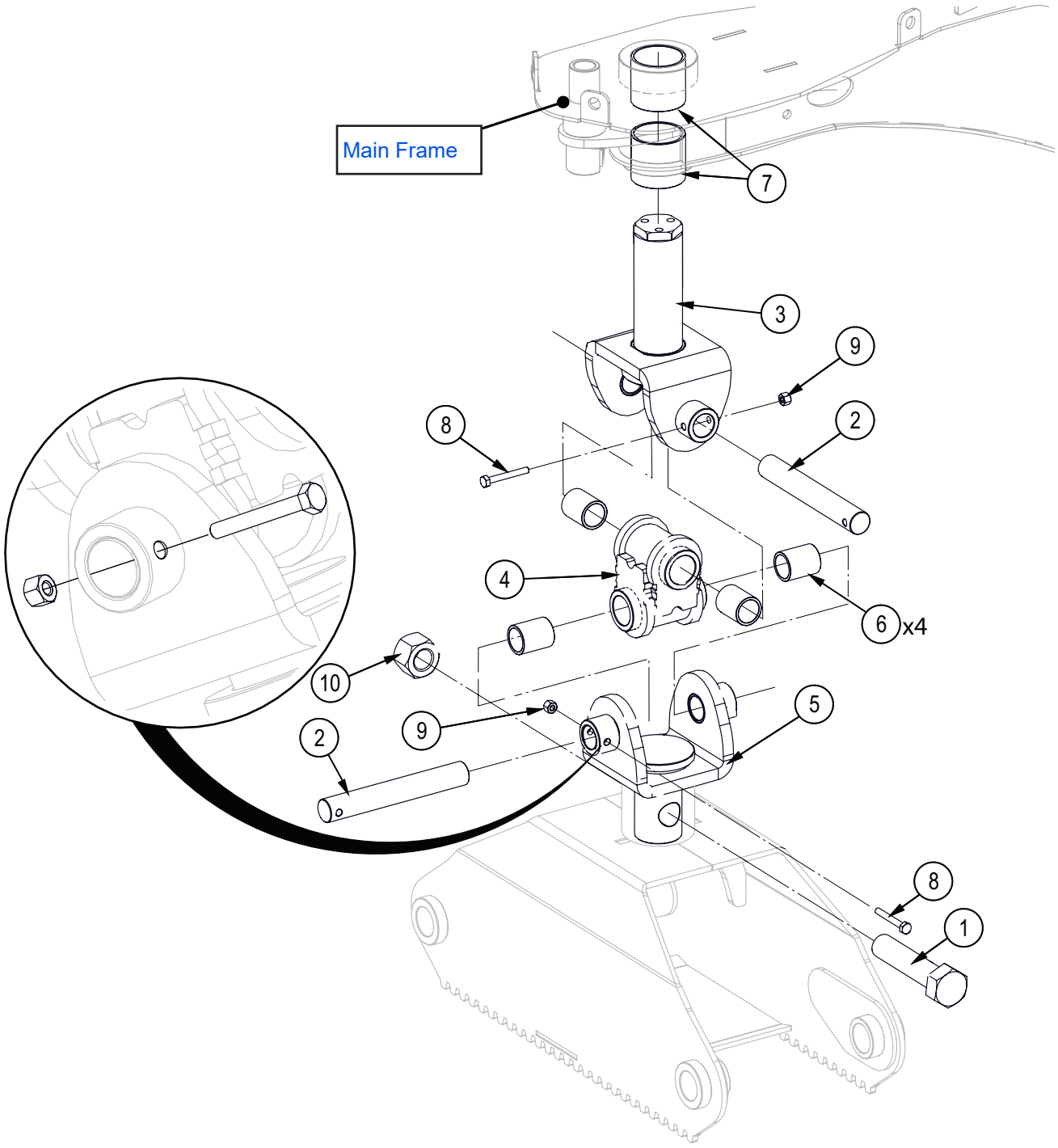
Main Parts S/N 420S059 & Up



Item No.	Part No.	Description	Qty
1	3011L176	Clamp, Two Hose	4
2	6016W006	Spring Guard	1
3	6071W102	Hose Mount Whip	1
4	6071W501	Mainframe	1
6	Z76111	Flange Bolt, 1/4NC x 3/4"	2
7	Z71212	Hex Bolt, 5/16NC x 1-1/4"	2
8	Z71217	Hex Bolt, 5/16NC x 1-3/4"	2
9	Z71212	Hex Bolt, 5/16NC x 1-1/4"	1
10	Z72221	Hex Lock Nut, 5/16NC	2

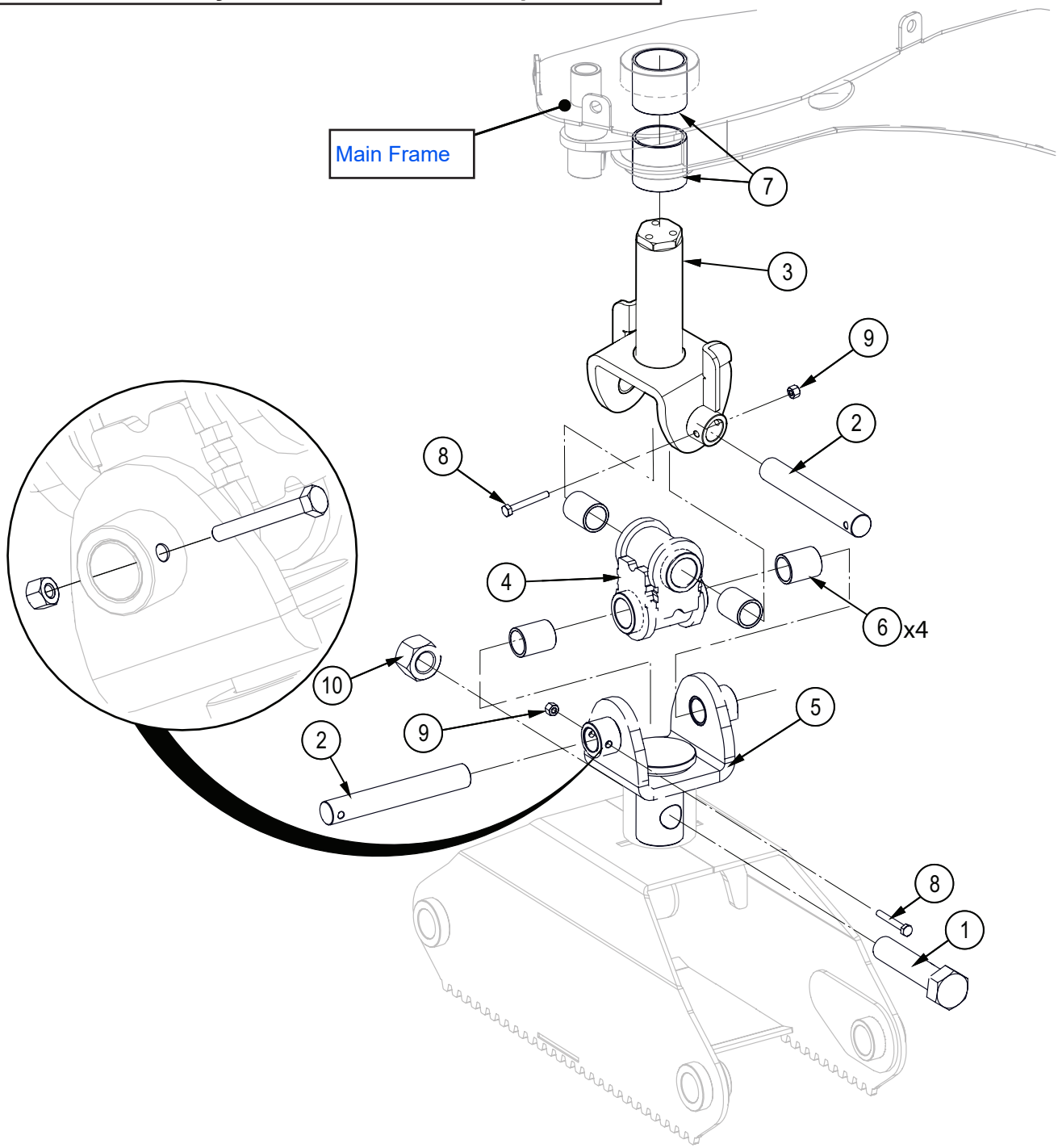
Item No.	Part No.	Description	Qty
11	Z72956	Rivet Nut, 5/16NC x 150	6
12	Z72957	Rivet Nut, 5/16NC x 312	3
13	Z72957	Rivet Nut, 5/16NC x 312	2
14	Z76121	Flange Bolt, 5/16NC x 3/4"	4
15	Z76125	Flange Bolt, 5/16NC x 1"	3
16	6011L128	Hose Clamp, 1 x 3/8"	2
17	2250L286	Hose Clamp, 2 x 3/8"	2
18	Z96505	Manual Tube, 2" Short	1

Pivot Assembly Detail S/N 420S001 to 420S058



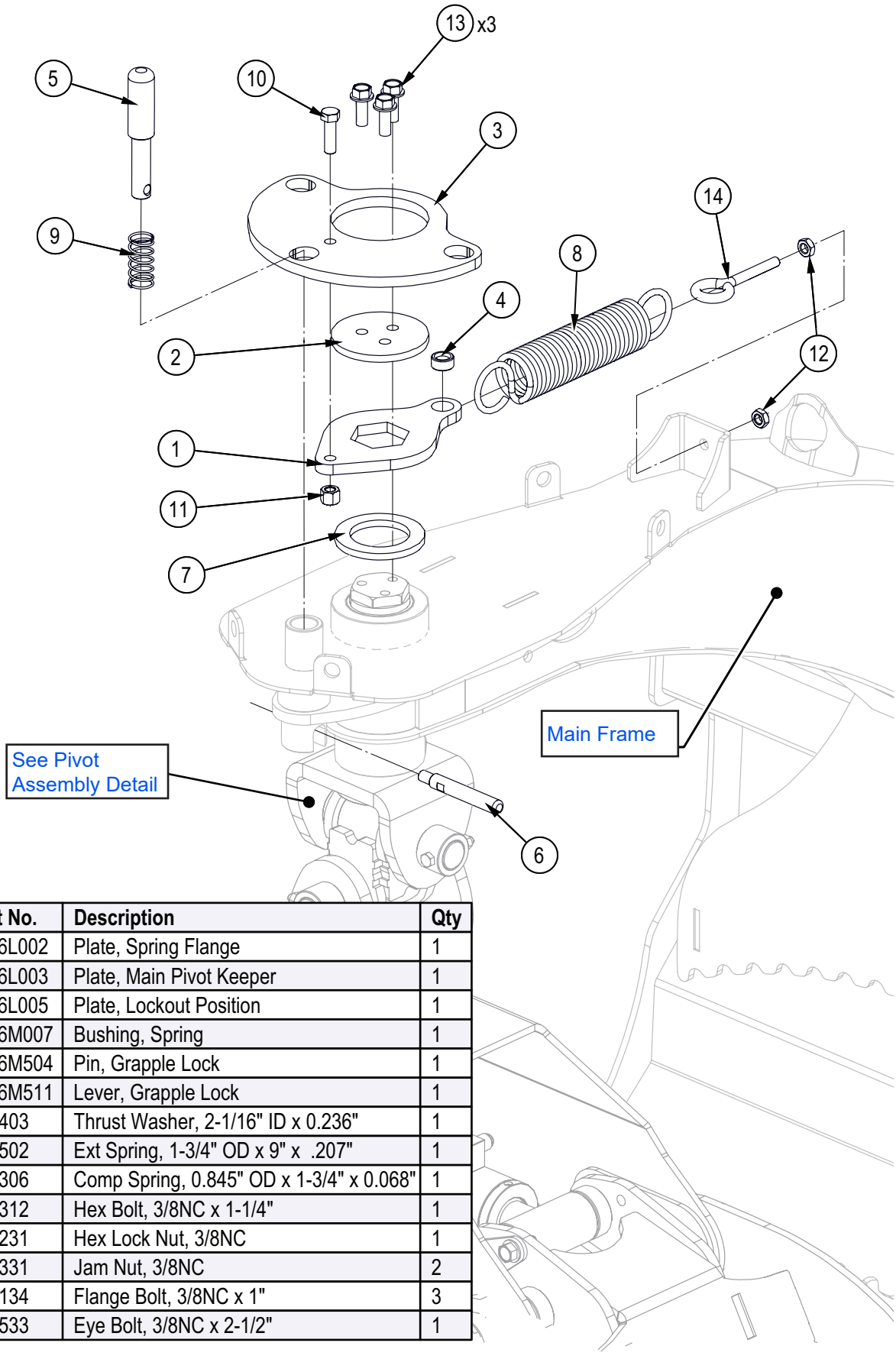
Item No.	Part No.	Description	Qty
1	Z71911	Hex Bolt, 1NC x 4-1/2"	1
2	6016M008	Pin, Pivot	2
3	6016W002	Main Pivot	1
4	6016W003	Pivot Link	1
5	6016W004	Grapple Pivot	1
6	Z27109	Composite Bearing, 1" ID x 1-1/2" long x 1/8" Wall	4
7	Z27111	Composite Bearing, 2" ID x 2" long x 1/8" Wall	2
8	Z71120	Hex Bolt, 1/4NC x 2"	2
9	Z72211	Hex Lock Nut, 1/4NC	2
10	Z72291	Hex Lock Nut, 1NC	1

Pivot Assembly Detail S/N 420S059 & Up



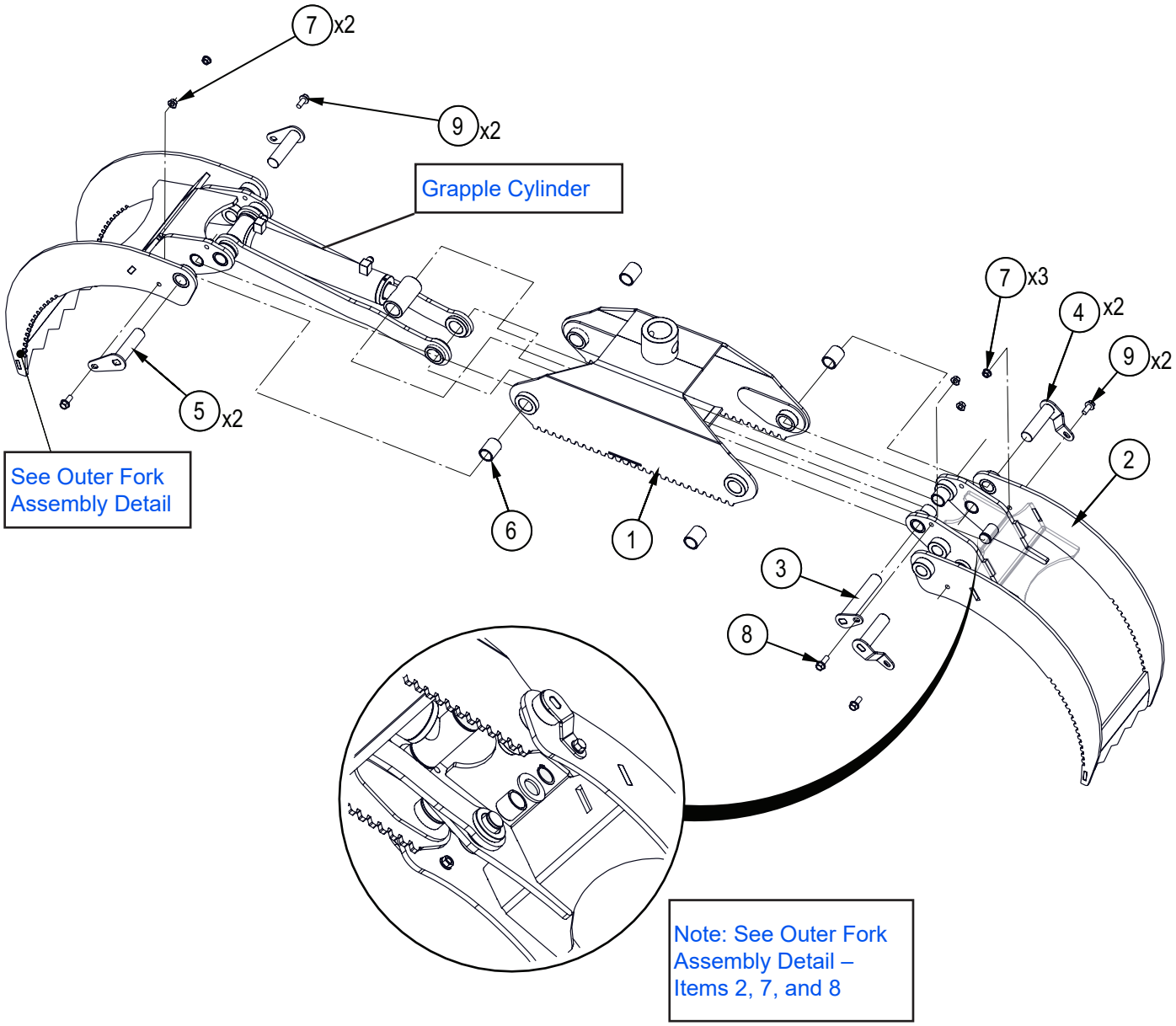
Item No.	Part No.	Description	Qty
1	Z71911	Hex Bolt, 1NC x 4-1/2"	1
2	6016M008	Pin, Pivot	2
3	6016W002	Main Pivot	1
4	6016W003	Pivot Link	1
5	6016W004	Grapple Pivot	1
6	Z27109	Composite Bearing, 1" ID x 1-1/2" long x 1/8" Wall	4
7	Z27111	Composite Bearing, 2" ID x 2" long x 1/8" Wall	2
8	Z71120	Hex Bolt, 1/4NC x 2"	2
9	Z72211	Hex Lock Nut, 1/4NC	2
10	Z72291	Hex Lock Nut, 1NC	1

Return Lock Assembly Detail



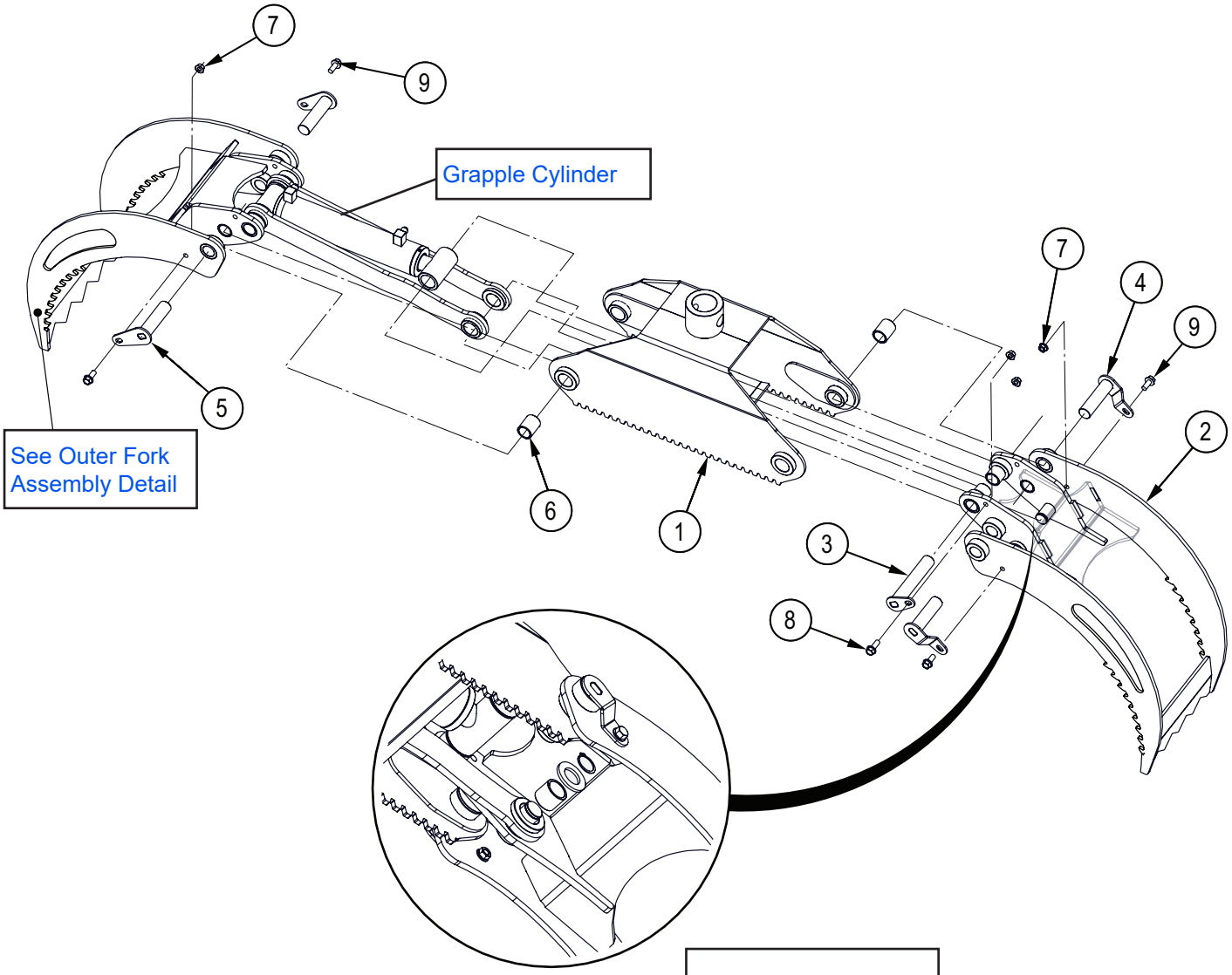
Item No.	Part No.	Description	Qty
1	6016L002	Plate, Spring Flange	1
2	6016L003	Plate, Main Pivot Keeper	1
3	6016L005	Plate, Lockout Position	1
4	6016M007	Bushing, Spring	1
5	6016M504	Pin, Grapple Lock	1
6	6016M511	Lever, Grapple Lock	1
7	Z22403	Thrust Washer, 2-1/16" ID x 0.236"	1
8	Z31502	Ext Spring, 1-3/4" OD x 9" x .207"	1
9	Z32306	Comp Spring, 0.845" OD x 1-3/4" x 0.068"	1
10	Z71312	Hex Bolt, 3/8NC x 1-1/4"	1
11	Z72231	Hex Lock Nut, 3/8NC	1
12	Z72331	Jam Nut, 3/8NC	2
13	Z76134	Flange Bolt, 3/8NC x 1"	3
14	Z76533	Eye Bolt, 3/8NC x 2-1/2"	1

Grapple Assembly S/N 420S001 to 420S058



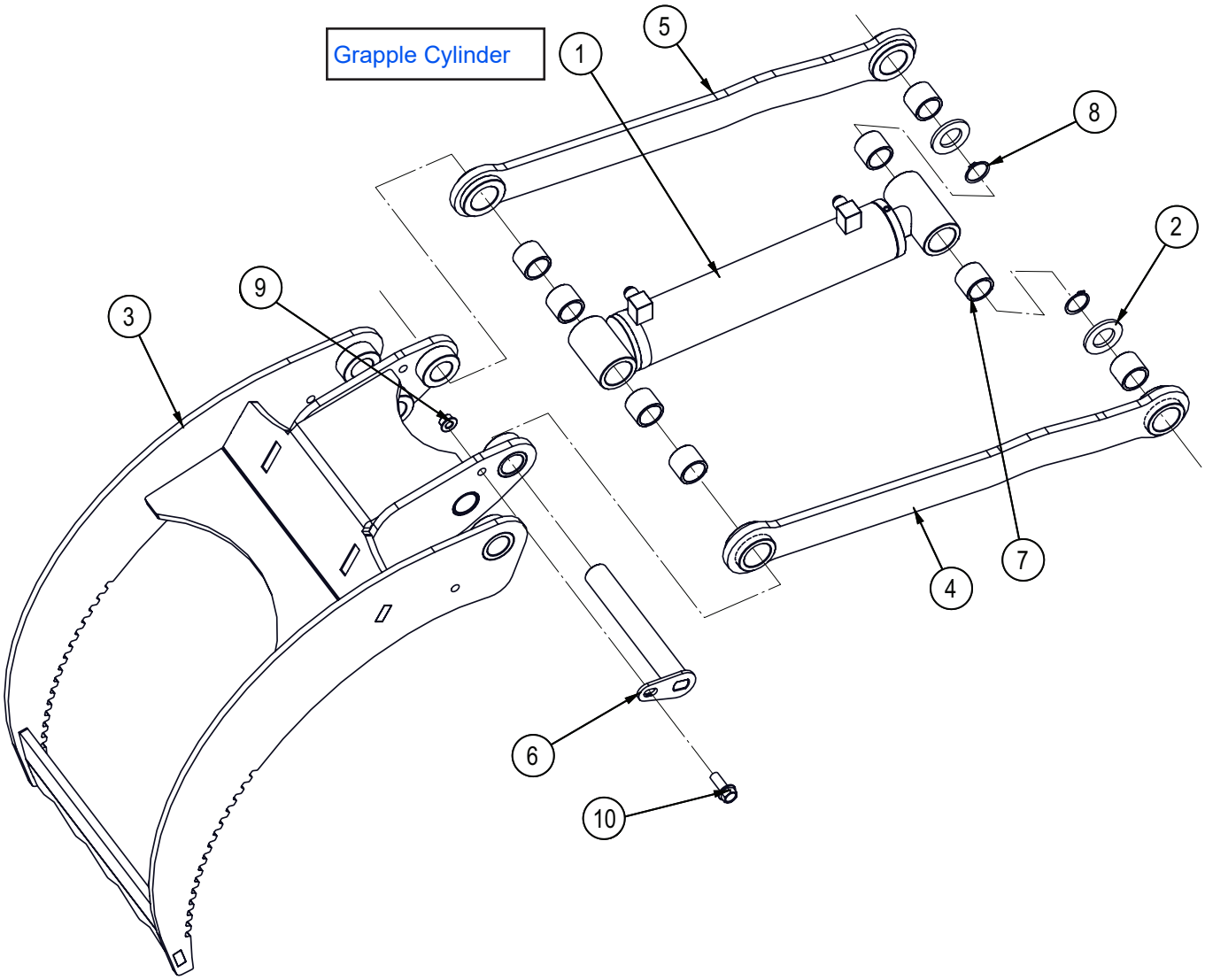
Item No.	Part No.	Description	Qty
1	6018W001	Grapple Housing	1
2	6018W002	Inner Fork	1
3	6018W010	Short Cylinder Pin	1
4	6018W008	Inner Fork Pin	2
5	6018W009	Outer Fork Pin	2
6	Z27109	Composite Bearing, 1" ID x 1-1/2" long x 1/8" Wall	4
7	Z72531	Serrated Flange Locknut, 3/8NC	5
8	Z76134	Flange Bolt, 3/8NC x 1"	1
9	Z76139	Flange Bolt, 3/8NC x 7/8"	4

Grapple Assembly S/N 420S059 & Up



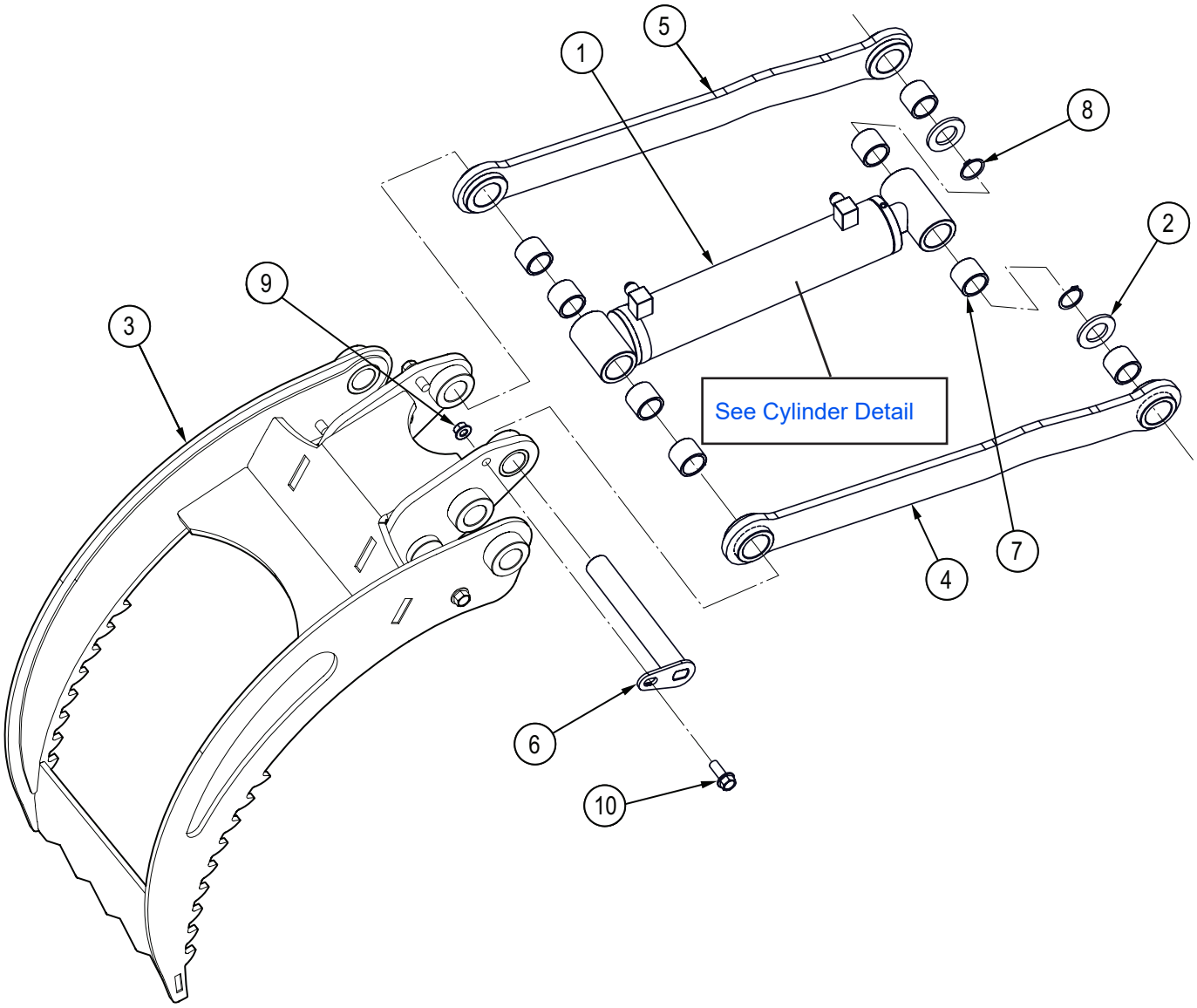
Item No.	Part No.	Description	Qty
1	6018W001	Grapple Housing	1
2	6018W012	Inner Fork	1
3	6018W010	Short Cylinder Pin	1
4	6018W008	Inner Fork Pin	2
5	6018W009	Outer Fork Pin	2
6	Z27109	Composite Bearing, 1" ID x 1-1/2" long x 1/8" Wall	4
7	Z72531	Serrated Flange Locknut, 3/8NC	5
8	Z76134	Flange Bolt, 3/8NC x 1"	1
9	Z76139	Flange Bolt, 3/8NC x 1"	4

Outer Fork Assembly Detail S/N 420S001 to 420S058



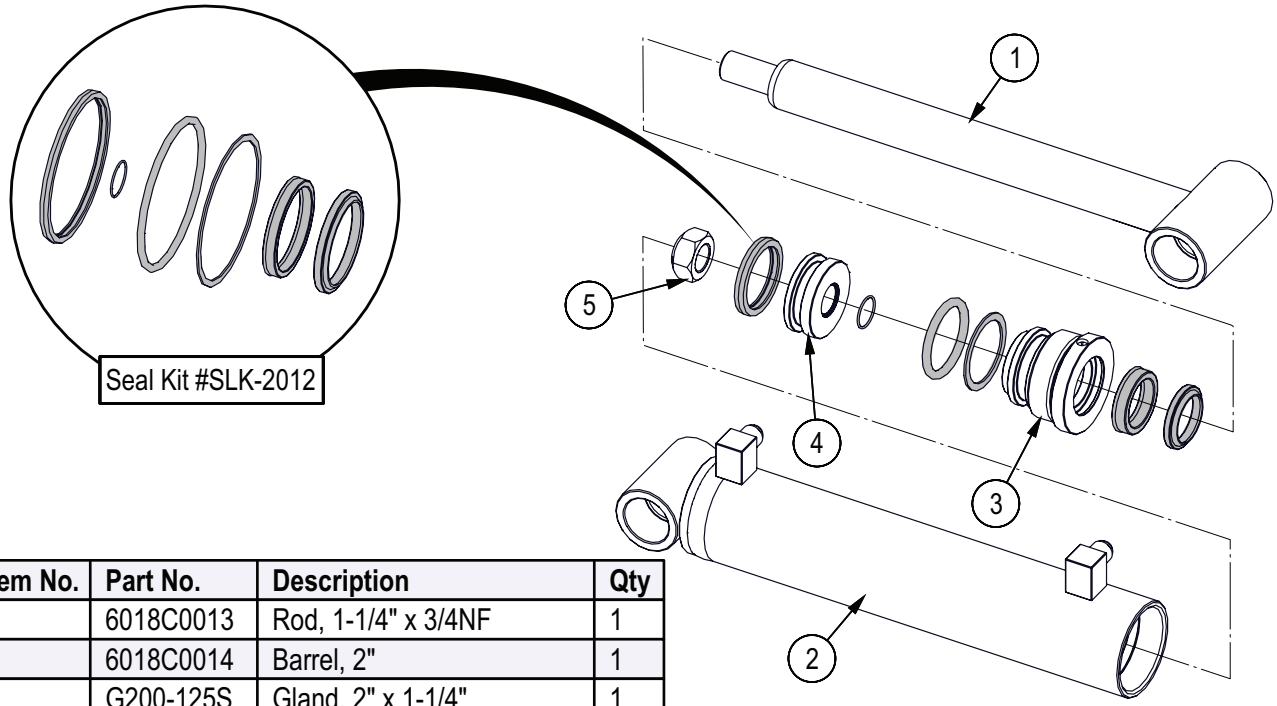
Item No.	Part No.	Description	Qty
1	6018C001	Cylinder, 2" x 1-1/4" x 8-5/8"	1
2	6018L026	Washer, Linkage Retaining	2
3	6018W003	Outer Fork	1
4	6018W004	Linkage	1
5	6018W004H	Linkage Mirror	1
6	6018W011	Long Cylinder Pin	1
7	Z27110	Composite Bearing, 1" ID x 1" long x 1/8" Wall	8
8	Z46204	External Retaining Ring, 1"	2
9	Z72531	Serrated Flange Locknut, 3/8NC	1
10	Z76134	Flange Bolt, 3/8NC x 1"	1

Outer Fork Assembly Detail S/N 420S059 & Up



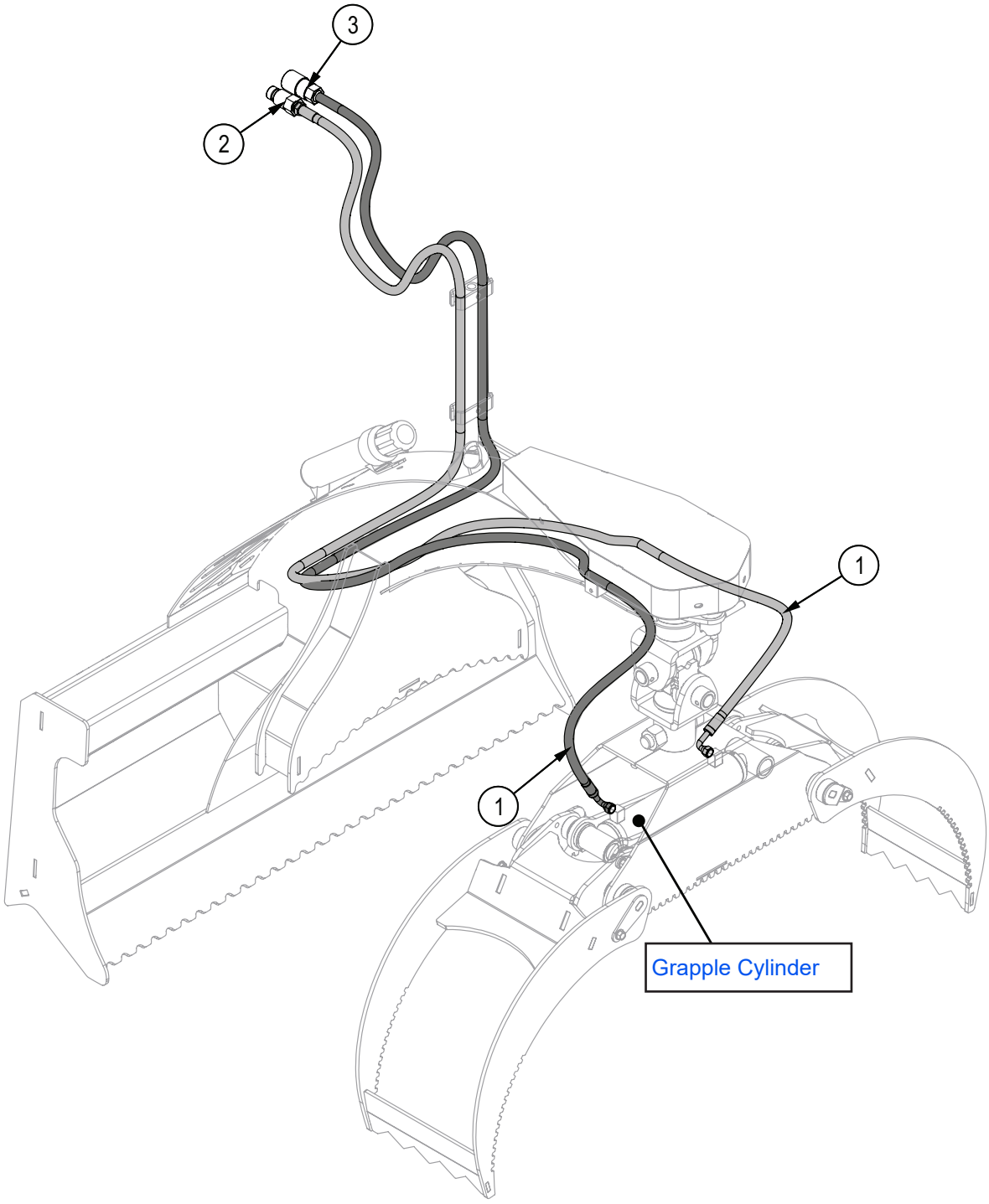
Item No.	Part No.	Description	Qty
1	6018C001	Cylinder, 2" x 1-1/4" x 8-5/8"	1
2	6018L026	Washer, Linkage Retaining	2
3	6018W013	Outer Fork	1
4	6018W004	Linkage	1
5	6018W004H	Linkage Mirror	1
6	6018W011	Long Cylinder Pin	1
7	Z27110	Composite Bearing, 1" ID x 1" long x 1/8" Wall	8
8	Z46204	External Retaining Ring, 1"	2
9	Z72531	Serrated Flange Locknut, 3/8NC	1
10	Z76134	Flange Bolt, 3/8NC x 1"	1

Cylinder Detail



Item No.	Part No.	Description	Qty
1	6018C0013	Rod, 1-1/4" x 3/4NF	1
2	6018C0014	Barrel, 2"	1
3	G200-125S	Gland, 2" x 1-1/4"	1
4	P750-200SP	Piston, 2" Bore	1
5	Z72276G8	Hex Top-lock Nut, 3/4NF G8	1

Hydraulic Circuit

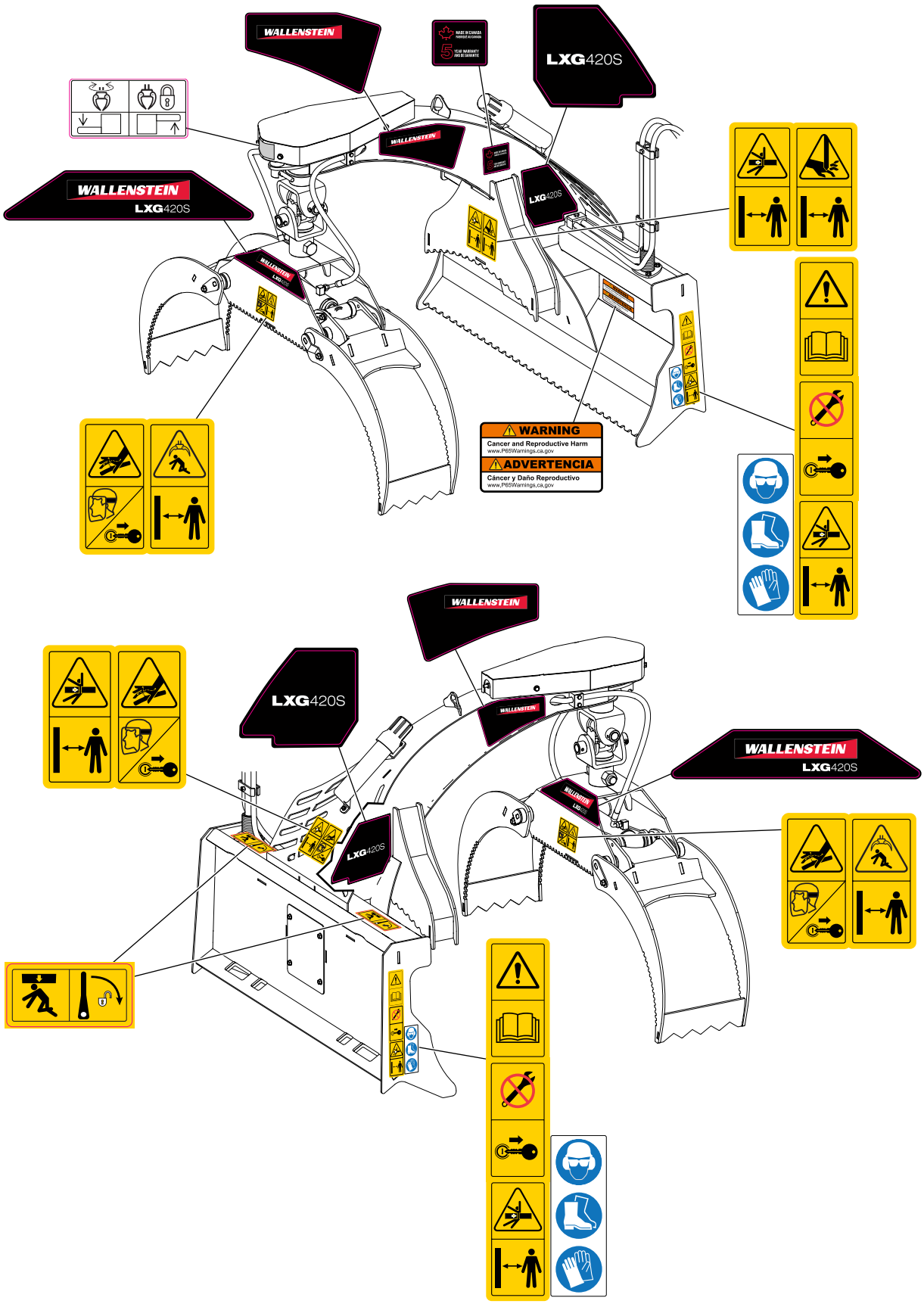


Item No.	Part No.	Description	Qty
1	6071F501	3/8" Hose, 90FJIC06 x MP08 x 132"	2
2	Z51919	Flat-Face Coupler, FP08 x M ISO 16028	1
3	Z51920	Flat-Face Coupler, FP08 x F ISO 16028	1

Decal Layout

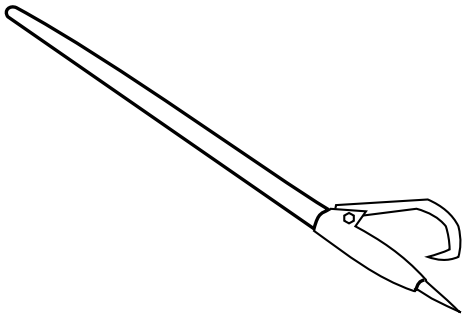
IMPORTANT! If parts are replaced that have safety signs on them, new signs must be applied. Safety signs must always be replaced if they become damaged, are removed, or become illegible.

Safety signs are included in the product decal kit available from your authorized dealer. Decals are not available separately.



Accessories

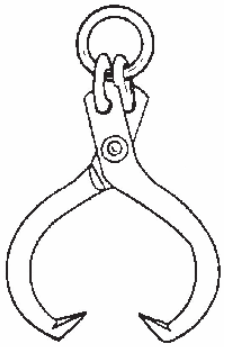
Call your dealer for pricing and availability



48" Log Peavey – P/N Z99001

Quality 2 3/8" diameter hardwood handle, with a Western Duck Bill Hook.

Helps to move those heavy log timbers into position.



Skidding Tongs – P/N Z99003

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.

Common Bolt Torque Values

Checking Bolt Torque

The tables shown give correct torque values for various bolts and capscrews. Tighten all bolts to the torque values specified in the table, unless indicated otherwise. Check tightness of bolts periodically.

IMPORTANT! If replacing hardware, use fasteners of the same grade.

IMPORTANT! Torque figures indicated in the table are for non-greased or non-oiled threads. Do not grease or oil threads unless indicated otherwise. When using a thread locker, increase torque values by 5%.

NOTE: Bolt grades are identified by their head markings.

Imperial Bolt Torque Specifications

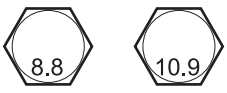
Bolt Diameter	Torque Value					
	SAE Gr. 2		SAE Gr. 5		SAE Gr. 8	
	lbf•ft	N•m	lbf•ft	N•m	lbf•ft	N•m
1/4"	6	8	9	12	12	17
5/16"	10	13	19	25	27	36
3/8"	20	27	33	45	45	63
7/16"	30	41	53	72	75	100
1/2"	45	61	80	110	115	155
9/16"	60	95	115	155	165	220
5/8"	95	128	160	215	220	305
3/4"	165	225	290	390	400	540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



SAE Gr. 2 SAE Gr. 5 SAE Gr. 8

Metric Bolt Torque Specifications

Bolt Diameter	Torque Value			
	Gr. 8.8		Gr. 10.9	
	lbf•ft	N•m	lbf•ft	N•m
M3	0.4	0.5	1.3	1.8
M4	2.2	3	3.3	4.5
M6	7	10	11	15
M8	18	25	26	35
M10	37	50	52	70
M12	66	90	92	125
M14	83	112	116	158
M16	166	225	229	310
M20	321	435	450	610
M30	1,103	1 495	1,550	2 100



Hydraulic Fitting Torque Values

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. Hand-tighten swivel nut until snug.
4. To prevent twisting the tube, use two wrenches. Place one wrench on the connector body and tighten the swivel nut with the second. Torque to values shown.

If a torque wrench is not available, use the FFFT (Flats From Finger Tight) method.

Hydraulic Fitting Torque					
Tube Size OD	**Hex Size Across Flats**	**Torque value**		**Flats From Finger Tight**	
Inches	Inches	lbf•ft	N•m	Flats	Turns
3/16	7/16	6	8	2	1/6
1/4	9/16	11–12	15–17	2	1/6
5/16	5/8	14–16	19–22	2	1/6
3/8	11/16	20–22	27–30	1-1/4	1/6
1/2	7/8	44–48	59–65	1	1/6
5/8	1	50–58	68–79	1	1/6
3/4	1-1/4	79–88	107–119	1	1/8
1	1-5/8	117–125	158–170	1	1/8

Values shown are for non-lubricated connections.