



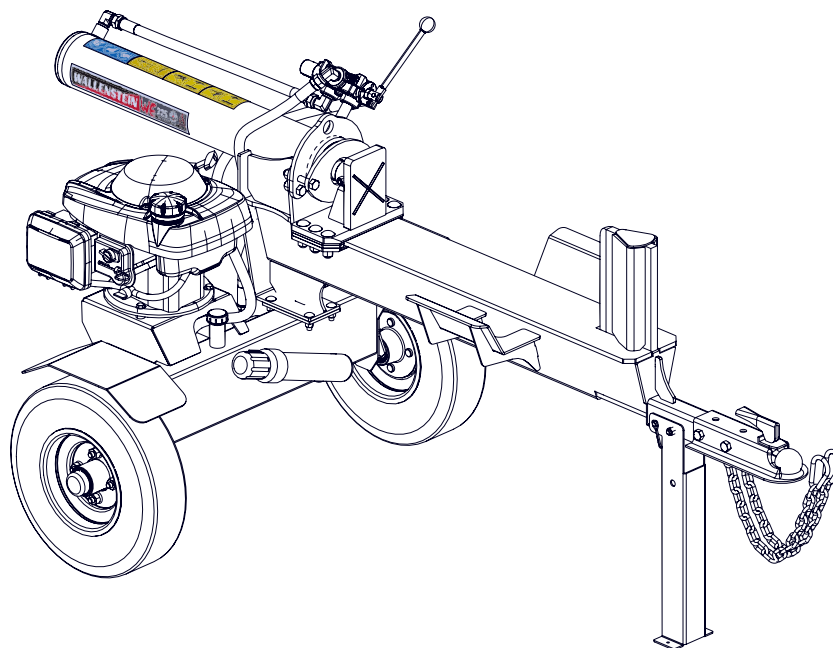
EMB Manufacturing Inc.
4144 Boomer Line · St. Clements, Ontario · N0B 2M0 · Canada
www.wallensteinequipment.com

PARTS MANUAL

WE225

Trailer Log Splitter

Serial Number 225001 & up



Refer to the operators manual for safe
operation and maintenance

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WARNING!

Refer to the operators manual for safe operation and maintenance.

Maintenance should be performed by trained personnel only.

Foreword

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

Regular maintenance, and replacing old, worn or broken parts with the correct OEM parts, is essential in prolonging the life of your EMB product. Please refer to this manual to identify replacement parts.

To order parts, please contact your dealer for further information. If your dealer is no longer available please go to our website: <http://www.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. EMB reserves the right to change product specifications at any time without notice.

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

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Bolt Torque

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
M16	166	225	229	310
M20	321	435	450	610
M30	1,103	1 495	1,550	2 100
M36	1,917	2 600	2,700	3 675



8.8



10.9

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. 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	
		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.

Wheel Lug Torque

It is extremely important safety procedure to apply and maintain proper wheel mounting torque on your trailer axle. Torque wrenches are the best method to assure the proper amount of torque is being applied to a fastener.

Wheel lugs should be torqued before first road use and after each wheel removal. Check and re torque after the first 10 miles (16 km), 25 miles (40 km), and again at 50 miles (80 km). Check periodically thereafter.

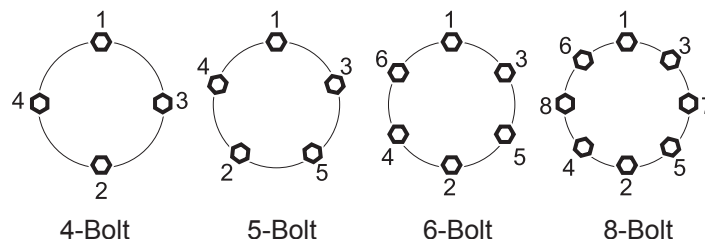
 **NOTE:** *Wheel lugs must be applied and maintained at the proper torque levels to prevent loose wheels, broken studs, and possible dangerous separation of wheels from your axle.*

- Start all lugs by hand to prevent cross threading.
- Tighten lugs in sequence, per wheel lug torque sequence chart.
- The tightening of the fasteners should be done in stages. Following the recommended sequence, tighten fasteners per wheel torque requirements chart.

Wheel Lug Nut Torque

Wheel Size	Units	1st Stage	2nd Stage	3rd Stage
8"	lbf•ft N•m	12–20 16–26	30–35 39–45.5	45–55 58.5–71.5
12"	lbf•ft N•m	20–25 26–32.5	35–40 45.5–52	50–60 65–78
13"	lbf•ft N•m	20–25 26–32.5	35–40 45.5–52	50–60 65–78
14"	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156
15"	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156
16"	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156

Wheel Lug Torque Pattern

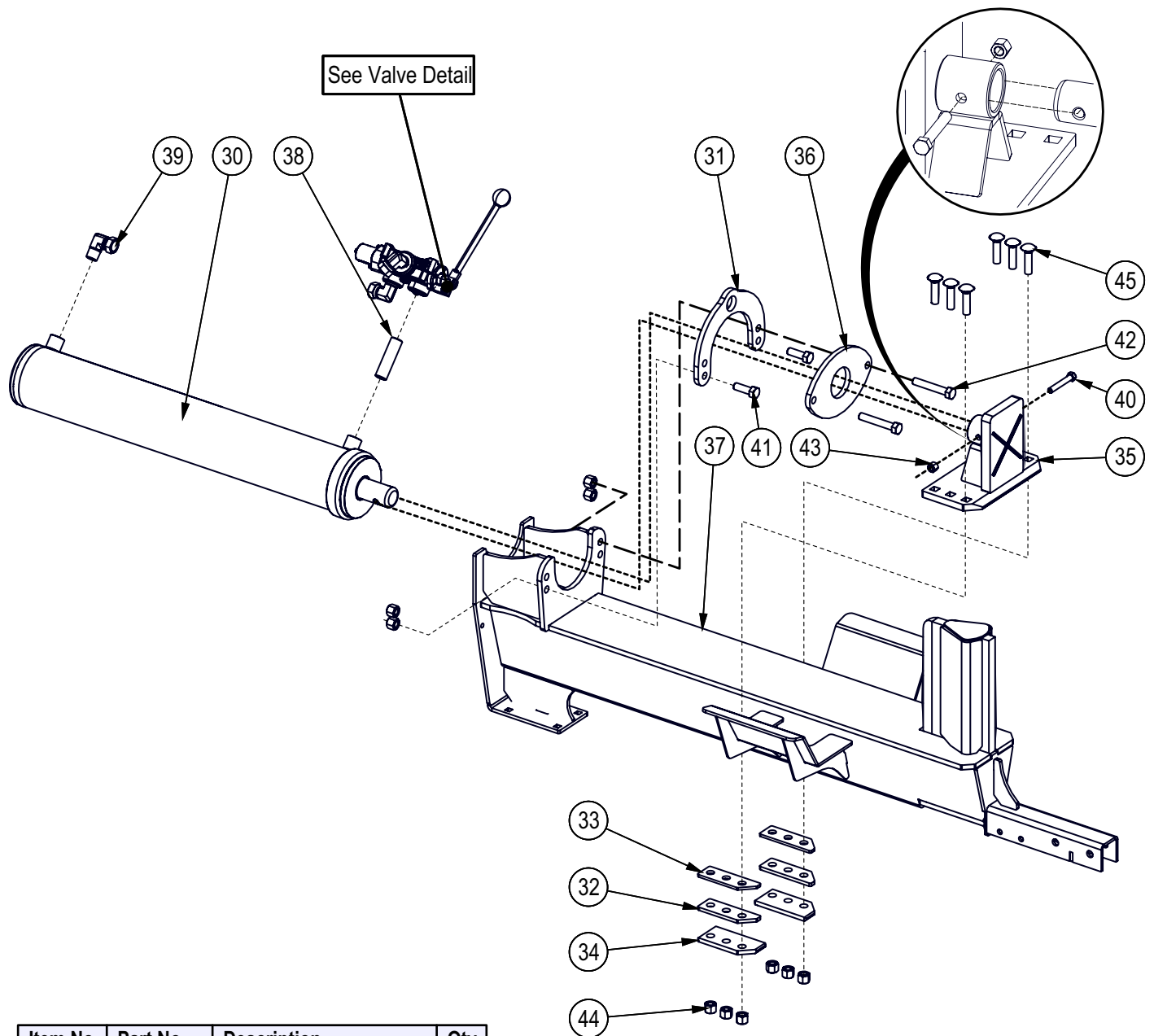


This exploded view diagram illustrates the assembly of a motorized vehicle chassis. The central component is a long horizontal frame (16). At the front (top left), a handle assembly (26, 18) is mounted. A chain drive system (21, 27) is shown on the left side. The rear (bottom) features a motor and pump assembly (24) connected to a drive shaft (11) and a gear (14). A large wheel (25) is shown at the bottom left, and a smaller wheel (2) is at the bottom right. Various other components like a fuel tank (7), a seat (15), and a hub assembly (See Hub Assembly) are shown in their relative positions. Callouts include 'See Horizontal Cylinder Assembly' and 'See Engine & Pump Assembly'. The diagram uses numbered circles (1-27) to identify individual parts and dashed lines to show their assembly paths.

BOM ID	Part No.	Description	Qty
15	Z71210	Hex Bolt, 5/16NC x 1"	1
16	Z71215	Hex Bolt, 5/16NC x 1-1/2"	4
17	Z71330	Hex Bolt, 3/8NC x 3"	1
18	Z71530	Hex Bolt, 1/2NC x 3"	2
19	Z72221	Hex Lock Nut, 5/16NC	6
20	Z72231	Hex Lock Nut, 3/8NC	9
21	Z72251	Hex Lock Nut, 1/2NC	2
22	Z76231	Carriage Bolt, 3/8NC x 1"	4
23	Z76232	Carriage Bolt, 3/8NC x 1-1/4"	4
24	Z79401	Hose Clamp, SAE #16 (1-1/2")	2
25	Z91301	4.80-8 LRB SportTrail 4on4"	2
26	Z91614	Hitch Coupler, 2" Ball x 2" x 3500lbs	1
27	Z92303	Safety Chain, 1/4" x 2ft with Snap	2

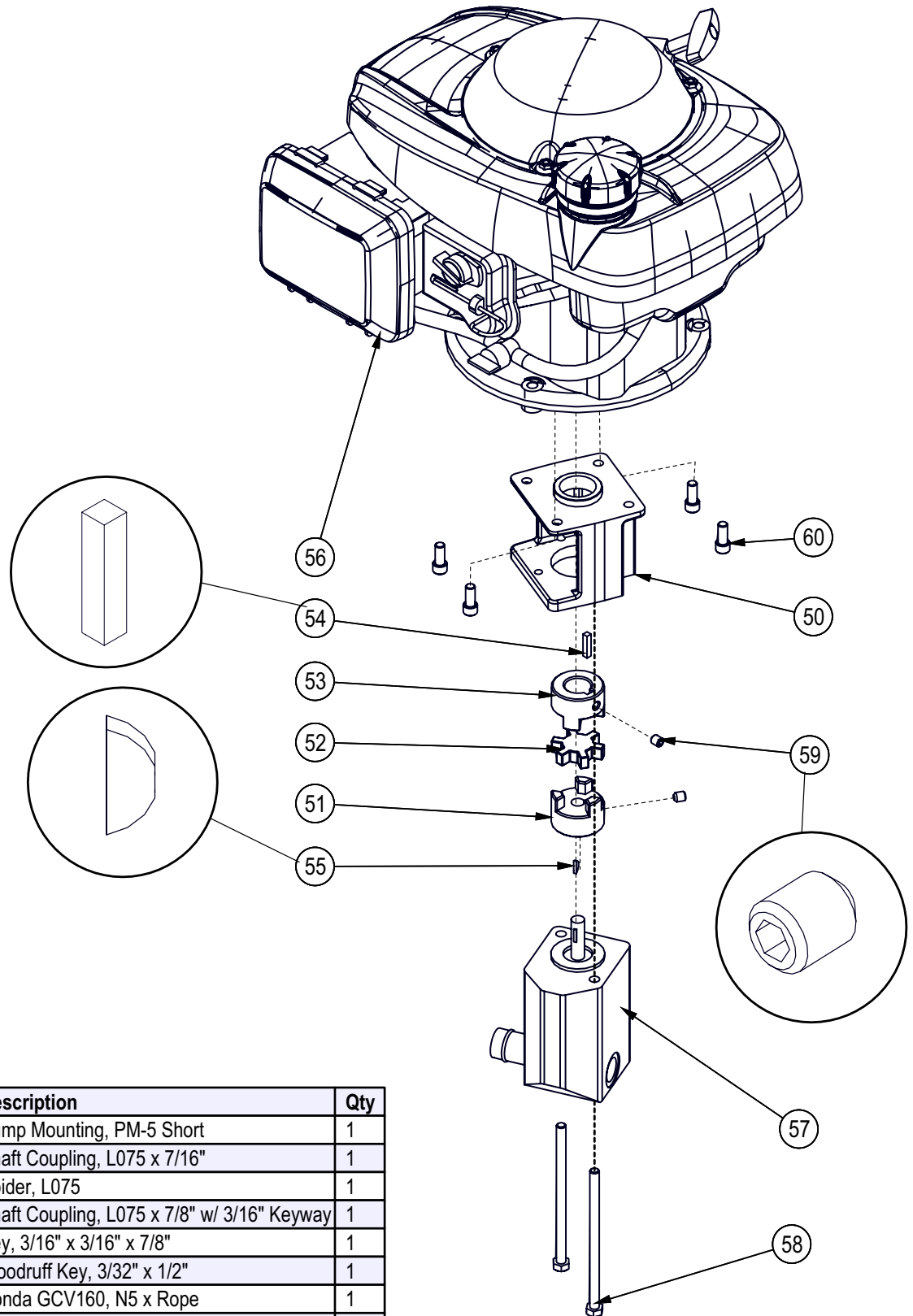
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Horizontal Cylinder Assembly



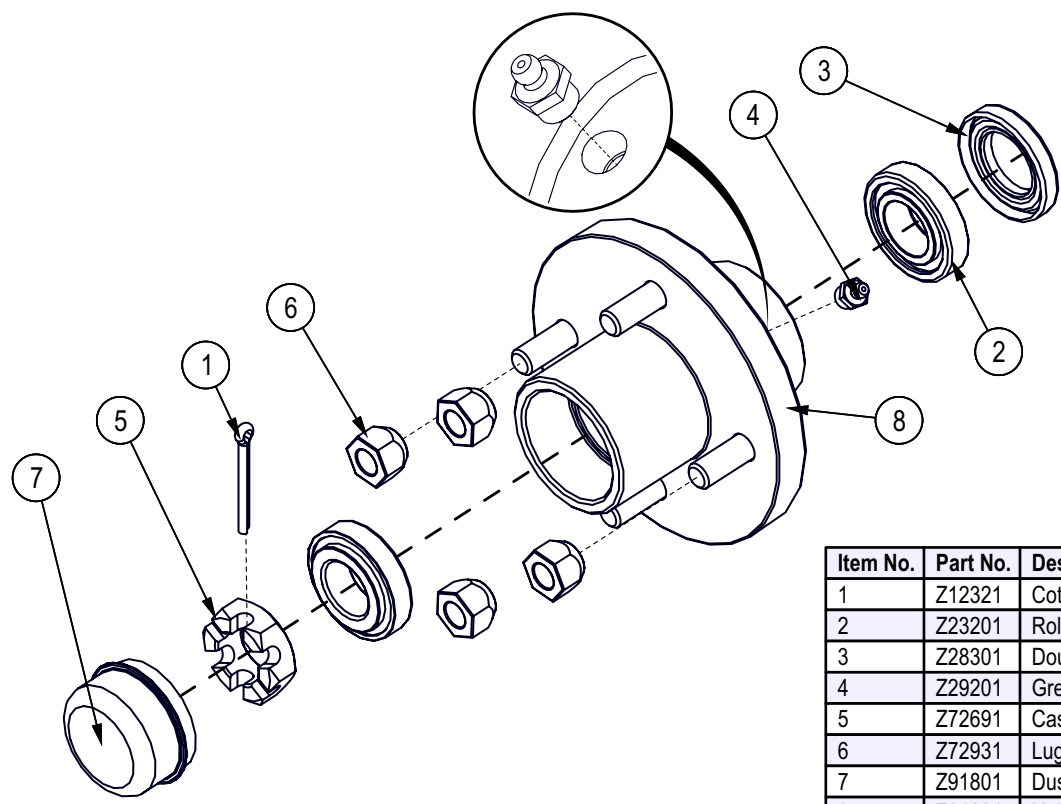
Item No.	Part No.	Description	Qty
30	2011C101	Cylinder, 4 x 24 x 1-1/2	1
31	2064L564	Cylinder Saddle	1
32	2064L802	Middle Gibb	2
33	2064L803	Top Gibb	2
34	2064L804	Bottom Sliding Gibb	2
35	2064W803	Push Block	1
36	2064L563	Gland Clamp Plate	1
37	2064W810	Main Splitter Bed	1
38	Z51113	Pipe Nipple, MP08 x 3"	1
39	Z51331	Elbow 90, MP x FPX 0808	1
40	Z71325	Hex Bolt, 3/8NC x 2-1/2"	1
41	Z71515	Hex Bolt, 1/2NC x 1-1/2"	2
42	Z71530	Hex Bolt, 1/2NC x 3"	2
43	Z72231	Hex Lock Nut, 3/8NC	1
44	Z72251	Hex Lock Nut, 1/2NC	10
45	Z76255	Carriage Bolt, 1/2NC x 2"	6

Engine and Pump Assembly



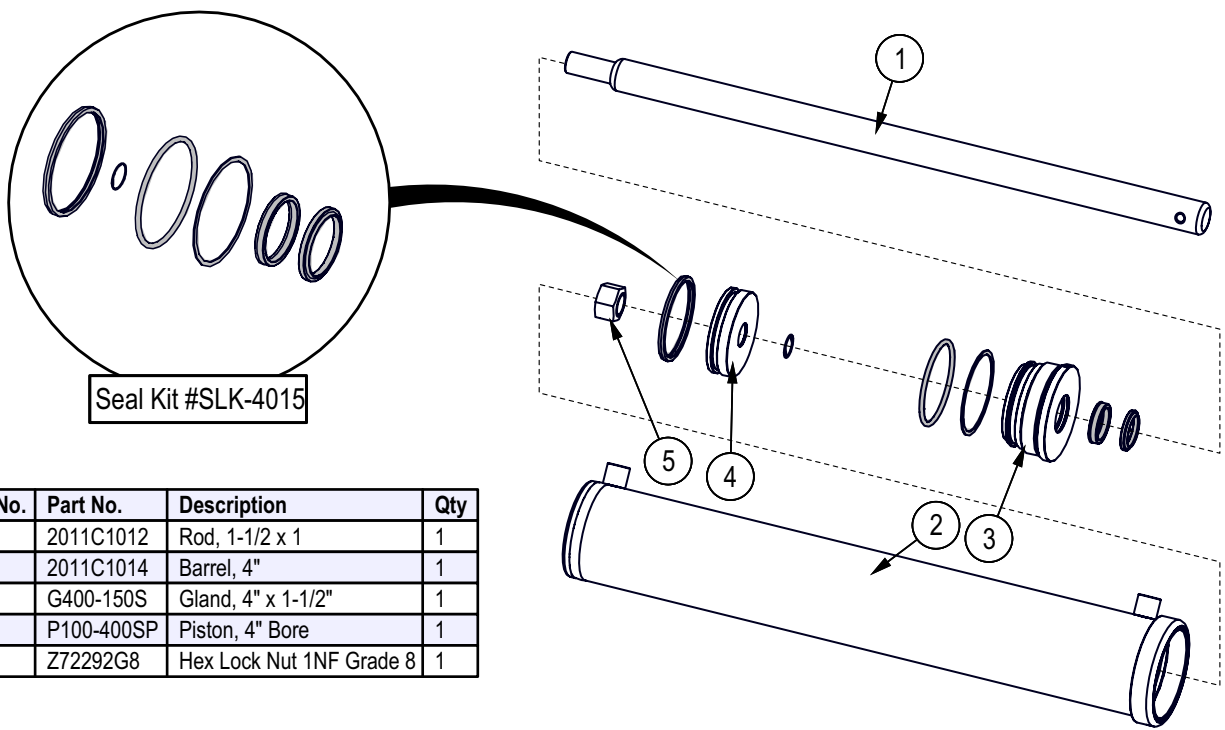
Item No.	Part No.	Description	Qty
50	2093M302	Pump Mounting, PM-5 Short	1
51	Z46407	Shaft Coupling, L075 x 7/16"	1
52	Z46408	Spider, L075	1
53	Z46433	Shaft Coupling, L075 x 7/8" w/ 3/16" Keyway	1
54	Z46521	Key, 3/16" x 3/16" x 7/8"	1
55	Z46591	Woodruff Key, 3/32" x 1/2"	1
56	Z47406	Honda GCV160, N5 x Rope	1
57	Z53201	Two-Stage Pump, 11GPM	1
58	Z71255	Hex Bolt, 5/16NC x 5-1/2"	2
59	Z74121	Set Screw, 5/16NC x 3/8"	2
60	Z75121	SHCS, 5/16NF x 3/4"	4

Hub Assembly



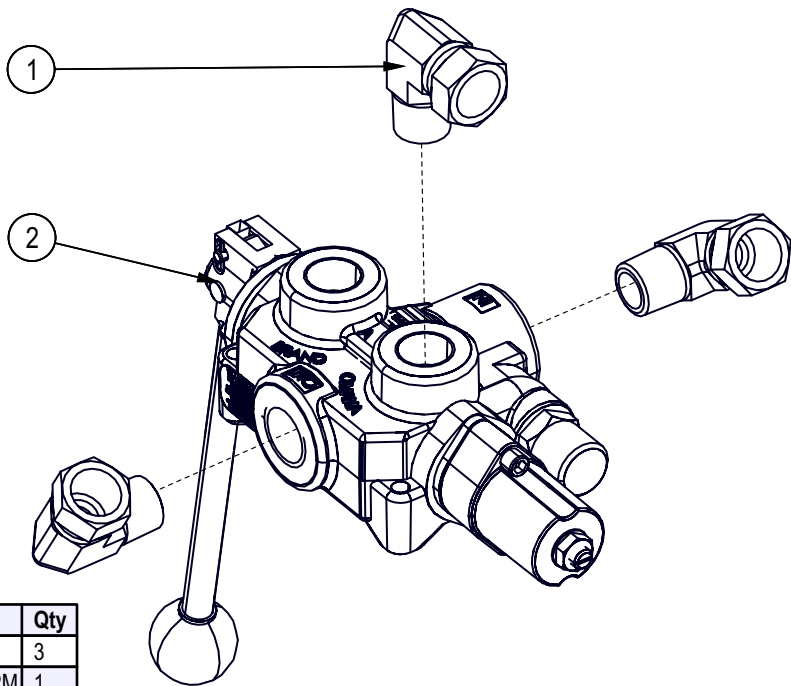
Item No.	Part No.	Description	Qty
1	Z12321	Cotter Pin, 3/16" x 1-3/4"	1
2	Z23201	Roller Bearing, L44643 L44610	2
3	Z28301	Double Lip Seal, 1-1/4"	1
4	Z29201	Grease Fitting, MP02	1
5	Z72691	Castle Nut, 1NF x 9/16" Thick	1
6	Z72931	Lug Nut, 1/2NF	4
7	Z91801	Dust Cap, 1.98 Bore	1
8	Z91201	Hub, 1000lbs x 4on4	1

Cylinder Detail



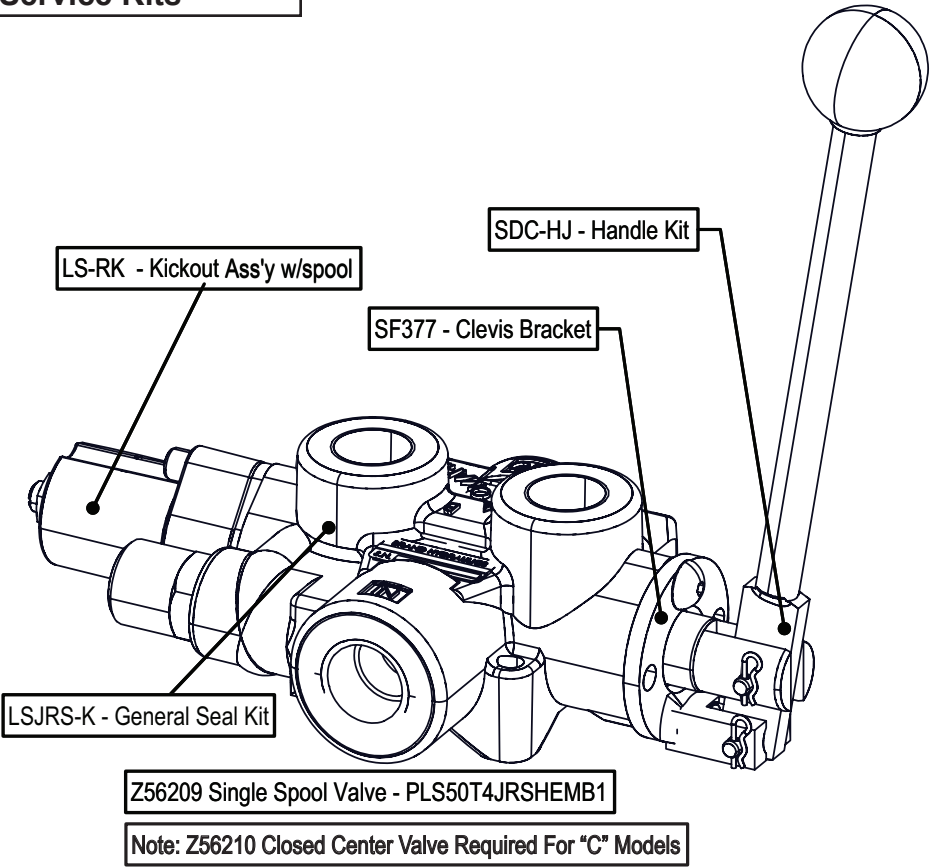
Item No.	Part No.	Description	Qty
1	2011C1012	Rod, 1-1/2 x 1	1
2	2011C1014	Barrel, 4"	1
3	G400-150S	Gland, 4" x 1-1/2"	1
4	P100-400SP	Piston, 4" Bore	1
5	Z72292G8	Hex Lock Nut 1NF Grade 8	1

Valve Assembly

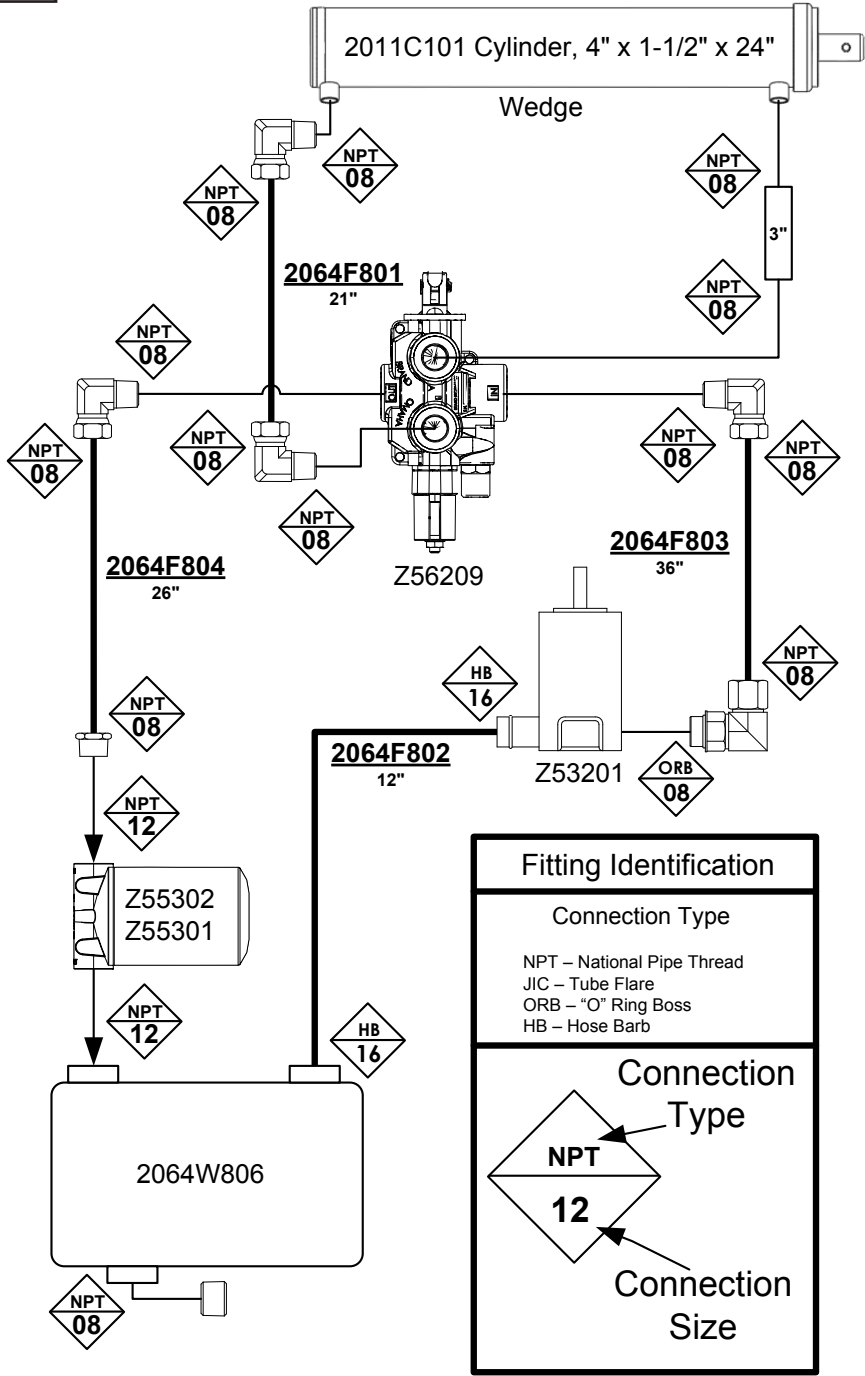


Item No.	Part No.	Description	Qty
1	Z51331	Elbow 90, MP x FPX 0808	3
2	Z56209	Single Spool Valve, OC Tandem SCDK x 18GPM	1

Z56209 Service Kits



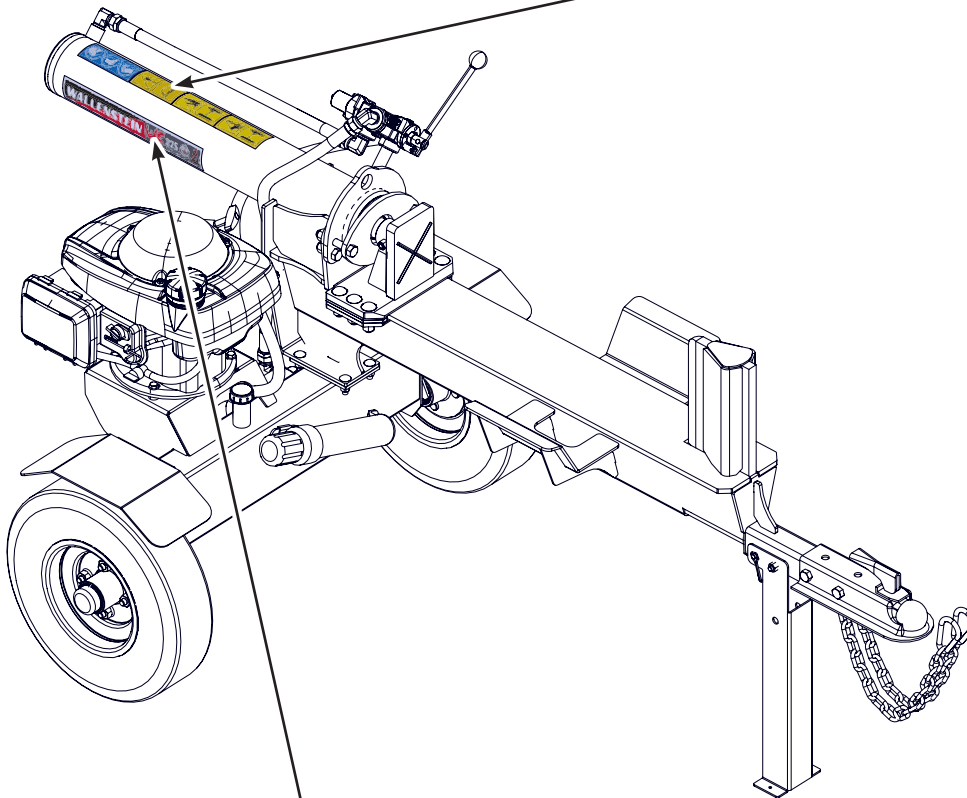
Hydraulic Schematic



Hydraulic Hose List

PART NUMBER	DESCRIPTION	QTY
2064F801	1/2" Hose, MP08 x MP08 x 21"	1
2064F802	Suction Hose, 1"x 12"	1
2064F803	1/2" Hose, MP08 x MP08 x 36"	1
2064F804	1/2" Hose, MP08 x MP08 x 26"	1

Label Layout



Z94239 x 1



Z94119 x 1



Z94123 x 1



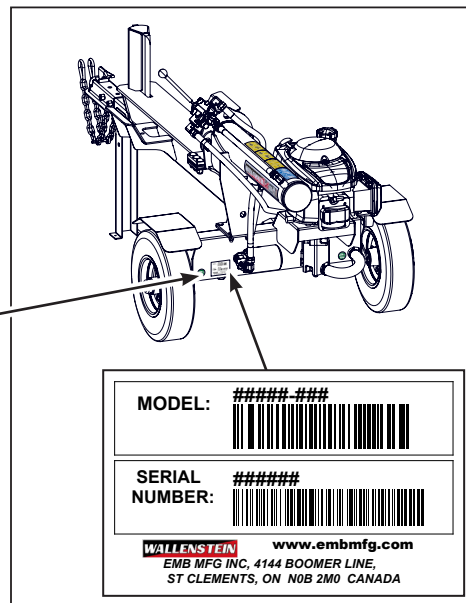
Z94124 x 1



Z946657 x 2



Z94428 x 2



MODEL: #####

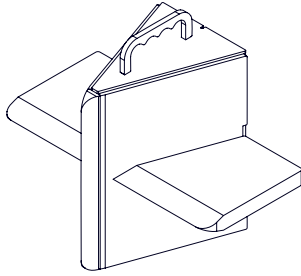
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Accessories

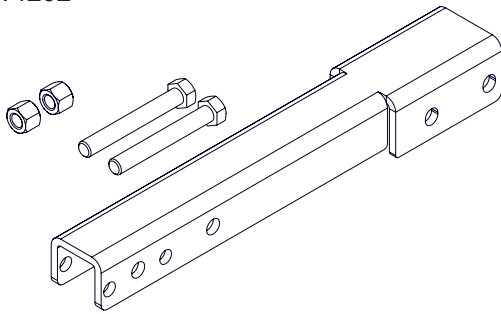
Call your dealer for pricing and availability

#W4110

**#W4110 4 Way Wedge**

Boost your productivity and make quick work out of logs by splitting four pieces at once. This is an ideal way to save time.

#W4202

**#W4202 12" Hitch Extension**

Increases your vehicle to machine clearance, helps when backing up.

#W4204

**#W4204 All Weather Wood Splitter Cover**

Heavy duty industrial material, made in Canada. Helps protect your splitter from harsh elements.

**#Z97112 WE225 & WE235
WOODSPLITTERS OPERATOR'S MANUAL**

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