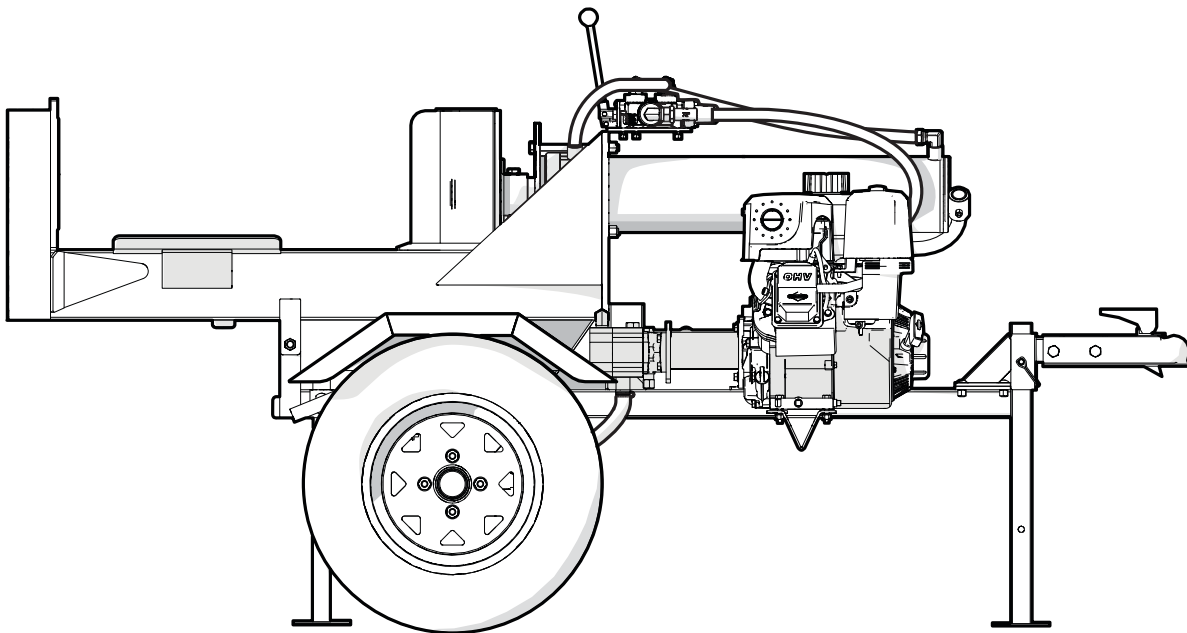


PARTS MANUAL

Serial number 1100760 and up

WX980 / WX980L Trailer Log Splitter



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 WallensteinEquipment.com. At the bottom of the page, select Dealer Locator.

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.

Reproduction of information in this parts manual is prohibited without prior written permission from Wallenstein Equipment Inc.

Wallenstein Equipment Inc. • © 2023



WARNING!

For safety, operation, and maintenance information, see the Operator's Manual.

Maintenance should be performed by trained personnel only.

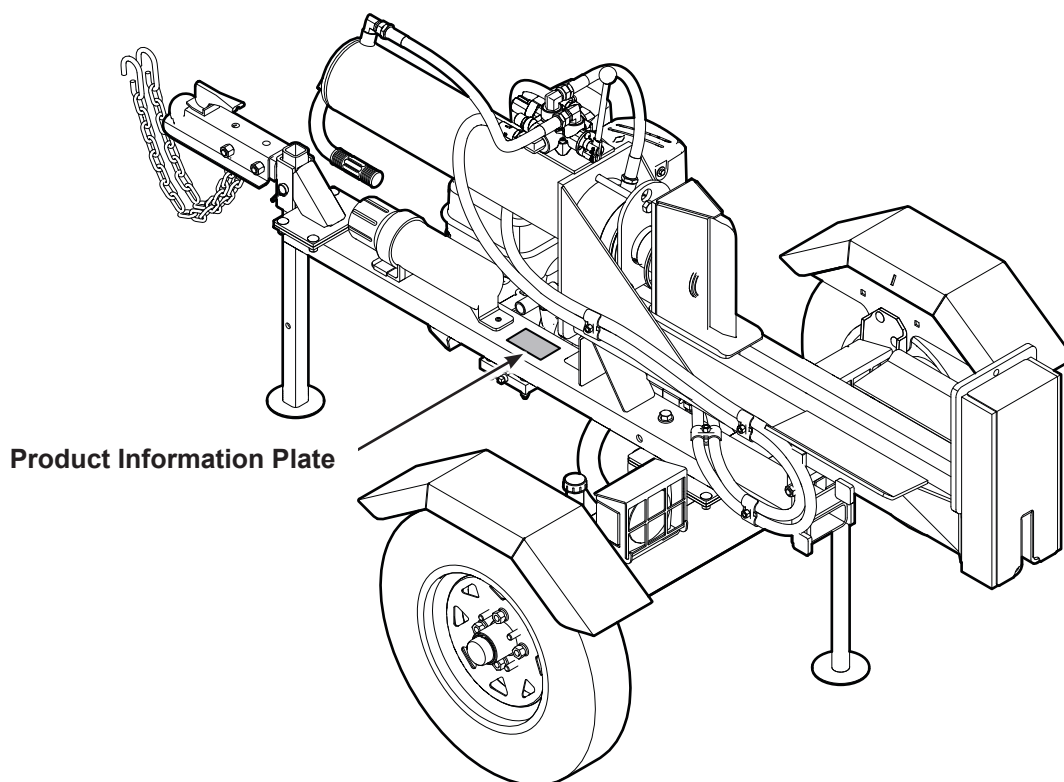
Serial Number Location

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

Record your product information here for future reference.

Model _____

Serial Number _____



WallensteinEquipment.com

Contents

Main Parts4

Hydraulic Tank and Trailer5

Rotating Base6

Valve Assembly7

Valve Service Kit7

Engine and Hydraulics Assembly8

Hub Assembly9

Cylinder Detail9

Hydraulic Circuit10

Wiring Diagram – WX980L..... 11

Decal Layout.....12

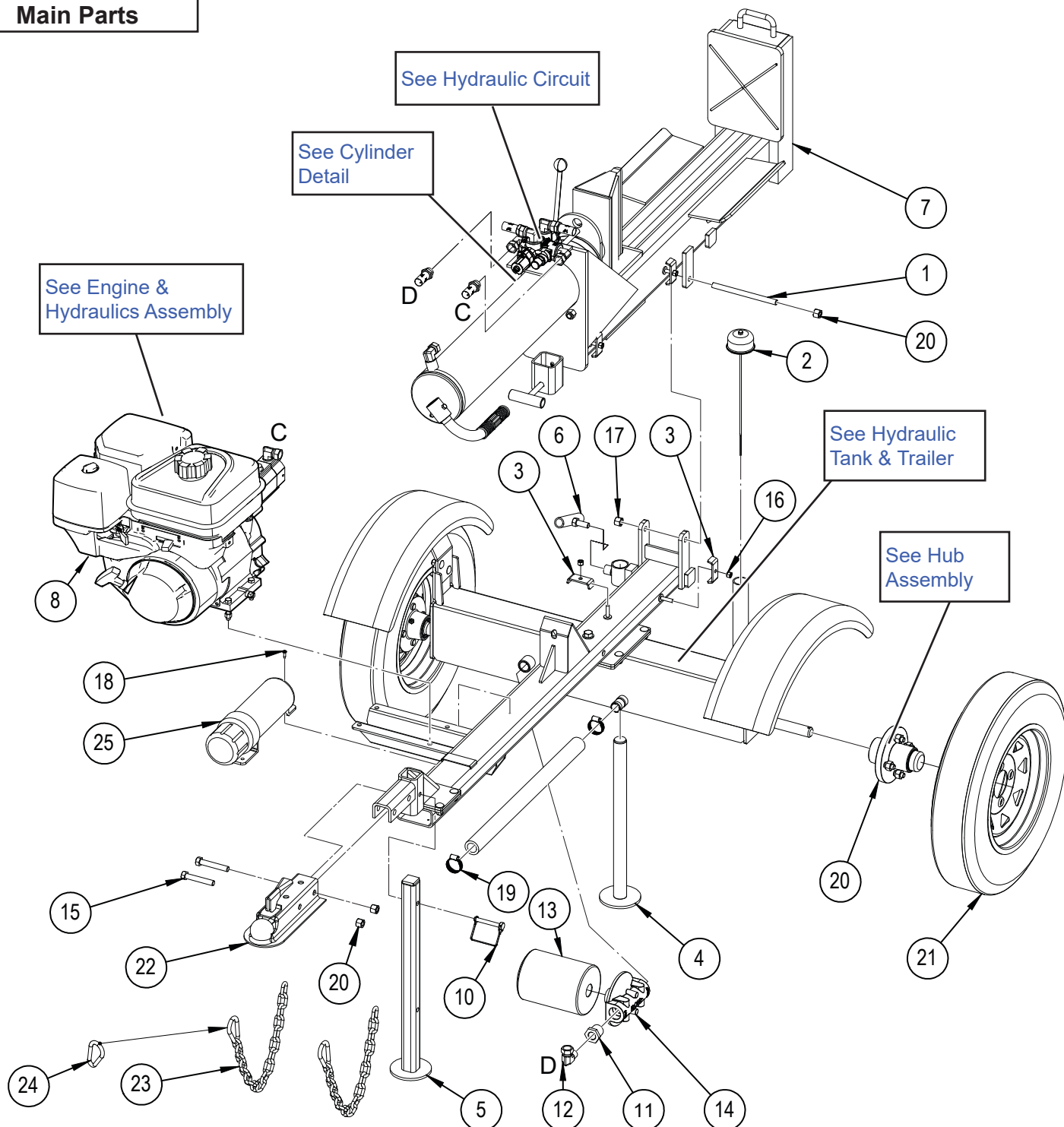
Accessories13

Bolt Torque14

Hydraulic Fitting Torque.....15

Lug Nut Torque.....15

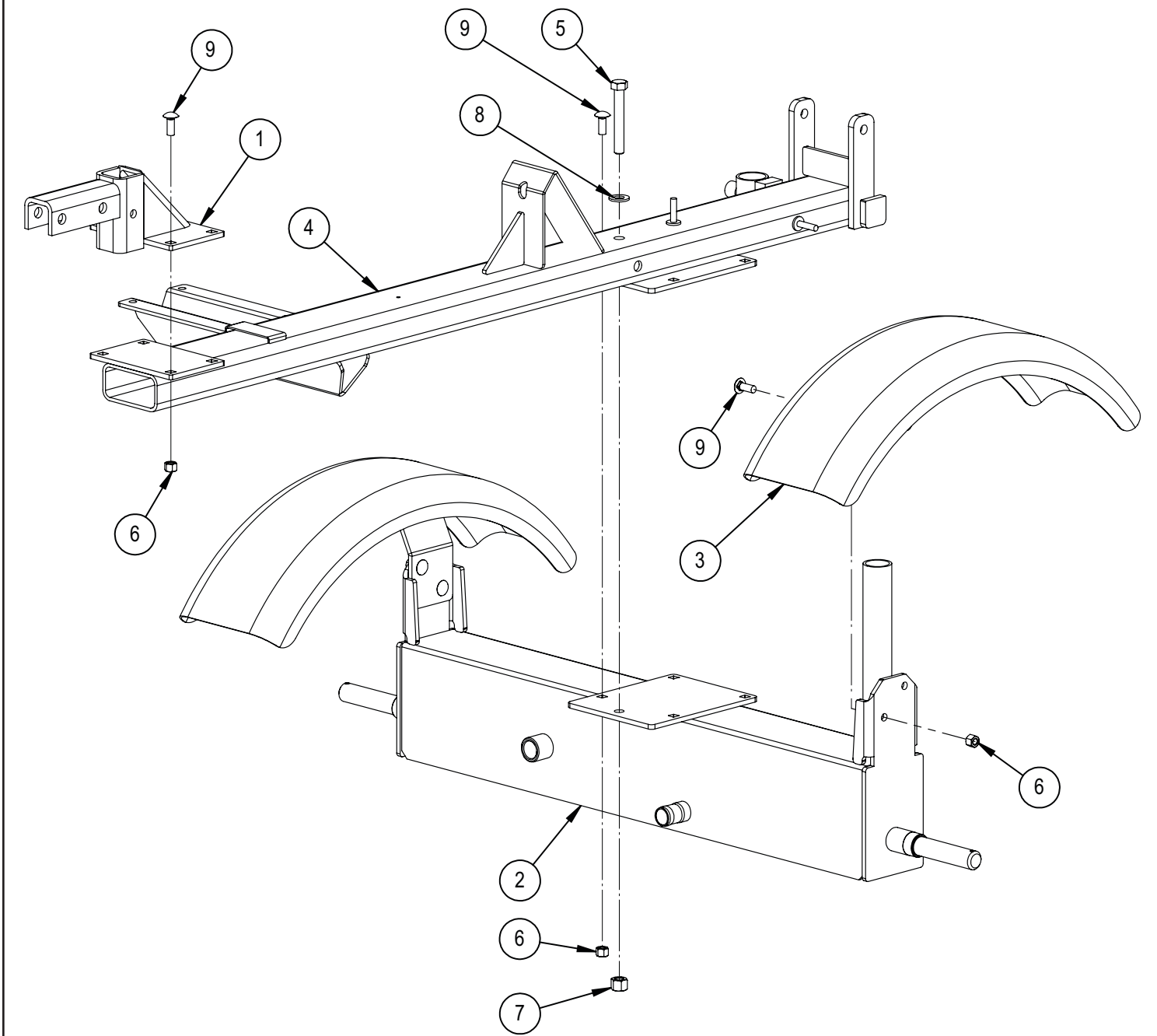
Main Parts



Item No.	Part No.	Description	Qty
1	2016M602	Pin, Pivot Threaded	1
2	Z55404	Vented Plug Dipstick x 9"	1
3	2054L412	Clamp, Two Hose	2
4	2054W405	Jack Stand, Rear	1
5	2054W406	Jack Stand, Front	1
6	2054W407	Handle, Rear Jack Lock	1
7	2061A101	Assembly, Splitter Base	1
8	Z47765	Vanguard® 10 hp (305 cc)	1
10	Z12432	Snapper Pin 3/8 x 2-1/2	1
11	Z51223	Reducer, MP x FP 1608	1
12	Z51331	Elbow 90 MP x FPX 0808	1
13	Z55303	Oil Filter - 1" - Particulate	1

Item No.	Part No.	Description	Qty
14	Z55304	Filter Cap, FP16 x FP16	1
15	Z71530	Hex Bolt 1/2NC x 3	2
16	Z72221	Hex Lock Nut 5/16NC	2
17	Z72251	Hex Lock Nut 1/2NC	4
18	Z76712	Self-tapping Screw #10	1
19	Z79401	Hose Clamp, #16	2
20	Z91202	Assembly, 1000# 4-Bolt Hub	2
21	Z91302	5.30-12 LRB SportTrail 4 Spoked	2
22	Z91614	2" Hitch Coupler	1
23	Z92303	Safety Chain 1/4 x 2'	2
24	Z92303-2	Safety Snap	2
25	Z96503	Manual Tube 3-1/2 Short	1

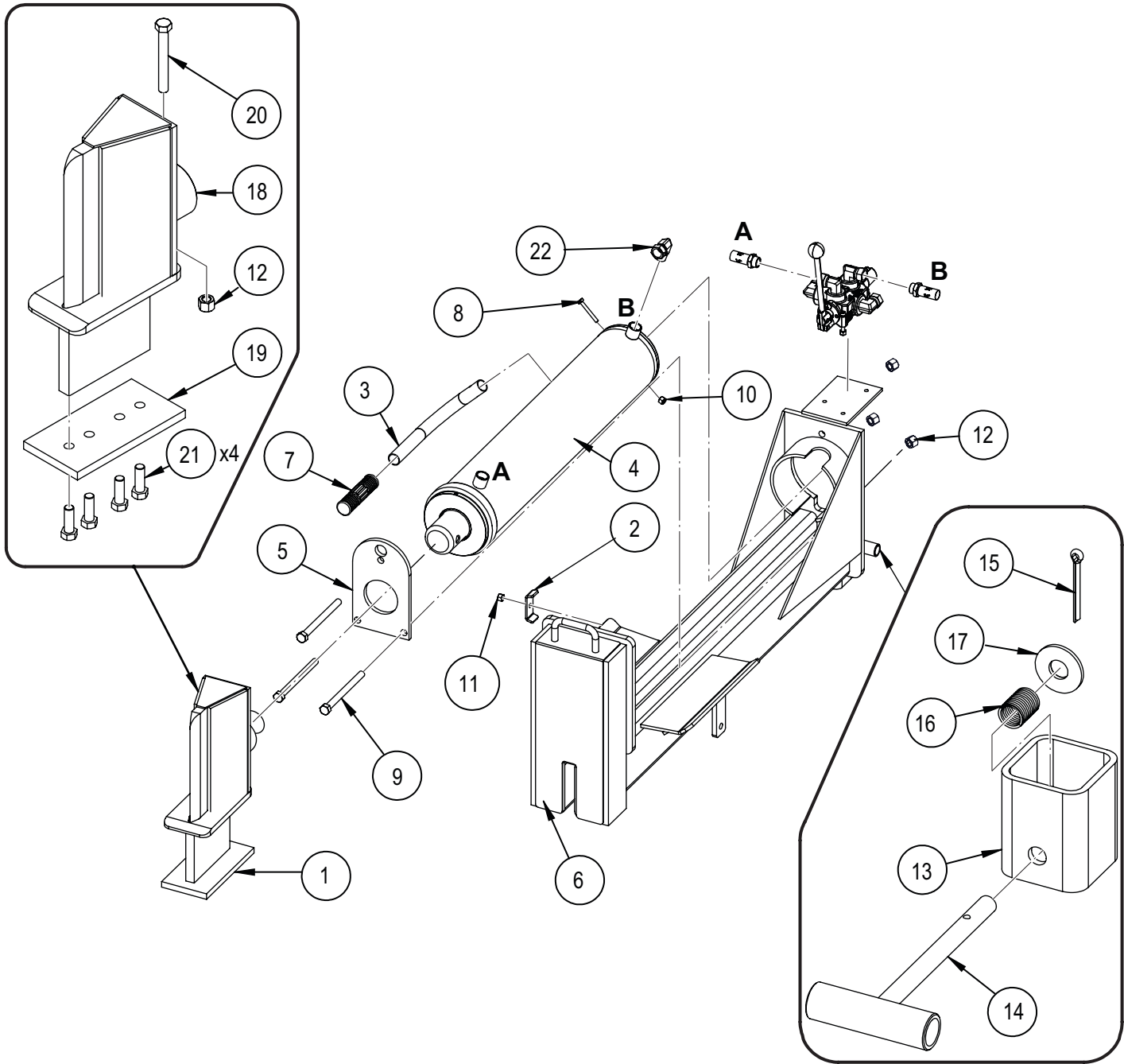
Hydraulic Tank and Trailer



Item No.	Part No.	Description	Qty
1	2054W604	Hitch Mount	1
2	2061W108 2061W108-L	WX980 Tank WX980L Tank	1
3	2061W103	Fender	2
4	2061W104	WX980 Tongue	1
5	Z71535	Hex Bolt 1/2NC x 3-1/2	1
6	Z72231	Hex Lock Nut 3/8NC	12
7	Z72251	Hex Lock Nut 1/2NC	1
8	Z73151	Flat Washer, 1/2	1
9	Z76231	Carriage Bolt 3/8NC x 1	12

Note: Hydraulic Tank Drain Plug
is P/N Z51192

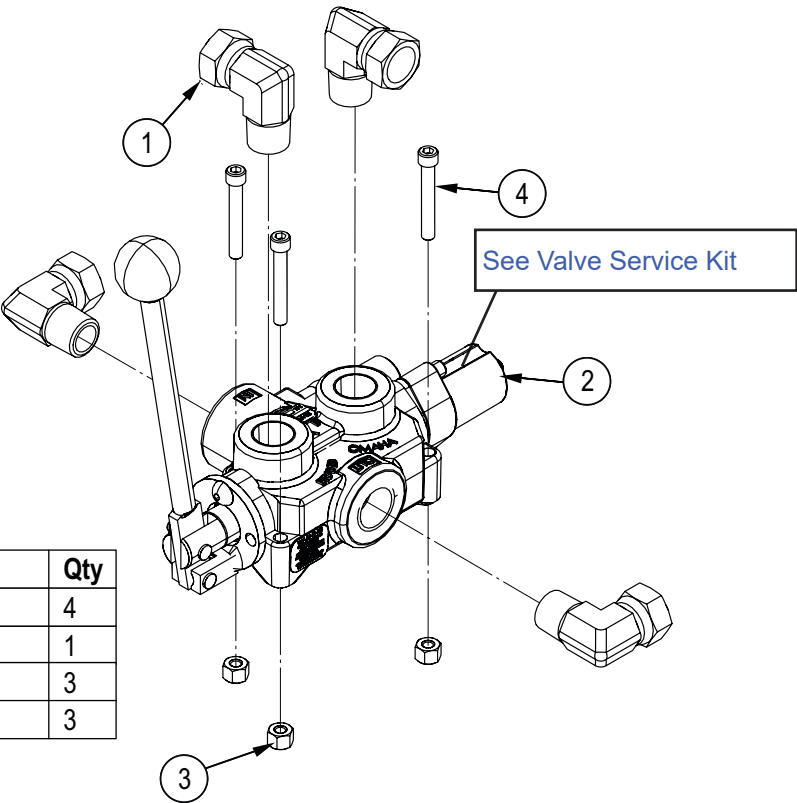
Rotating Base



Item No.	Part No.	Description	Qty
1	2015A505	Wedge Assy for 5" Cylinder	1
2	2054L4121	Clamp, Two Hose x 1/2"	2
3	2054S4141	Handle, Lift	1
4	2061C101	Cylinder, 5 x 24" x 2-1/2	1
5	2061S121	Plate, Cylinder Retaining (Bolt)	1
6	2061W101	WX980 Cylinder Base	1
7	Z19321	Handle Grip, 1"	1
8	Z71120	Hex Bolt 1/4NC x 2	1
9	Z71560	Hex Bolt 1/2NC x 6	3
10	Z72111	Hex Lock Nut 1/4NC	1
11	Z72221	Hex Lock Nut 5/16NC	2
12	Z72251	Hex Lock Nut	4

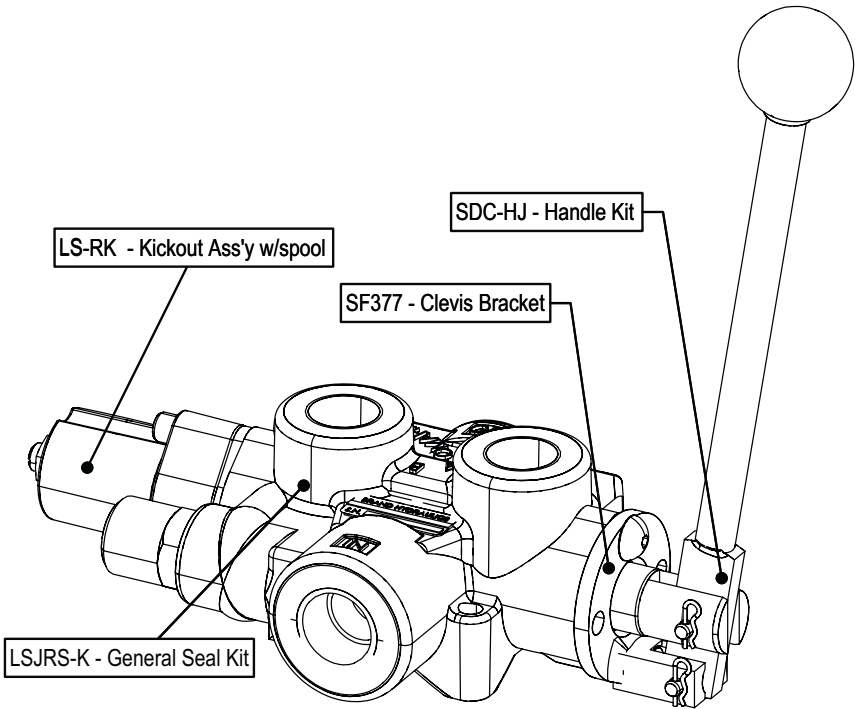
Item No.	Part No.	Description	Qty
13	2016S604	Housing, Latch Spring	1
14	2016W603	Handle, Spring Latch	1
15	Z12321	Cotter Pin, 3/16" x 1-3/4"	1
16	Z32301	Comp Spring, 0.720" OD x 3" x 0.063"	1
17	Z73251	USS Washer, 1/2"	1
18	2015W505	Wedge for 5" Cylinder	1
19	2014S414	Plate, Sliding Wedge Capture	1
20	Z71537	Hex Bolt, 1/2NC x 3-3/4"	1
21	Z71576G8	Hex Bolt, 1/2NF x 1-1/2" G8	4
22	Z51331	Elbow 90, MP x FFX 0808	1

Valve Assembly

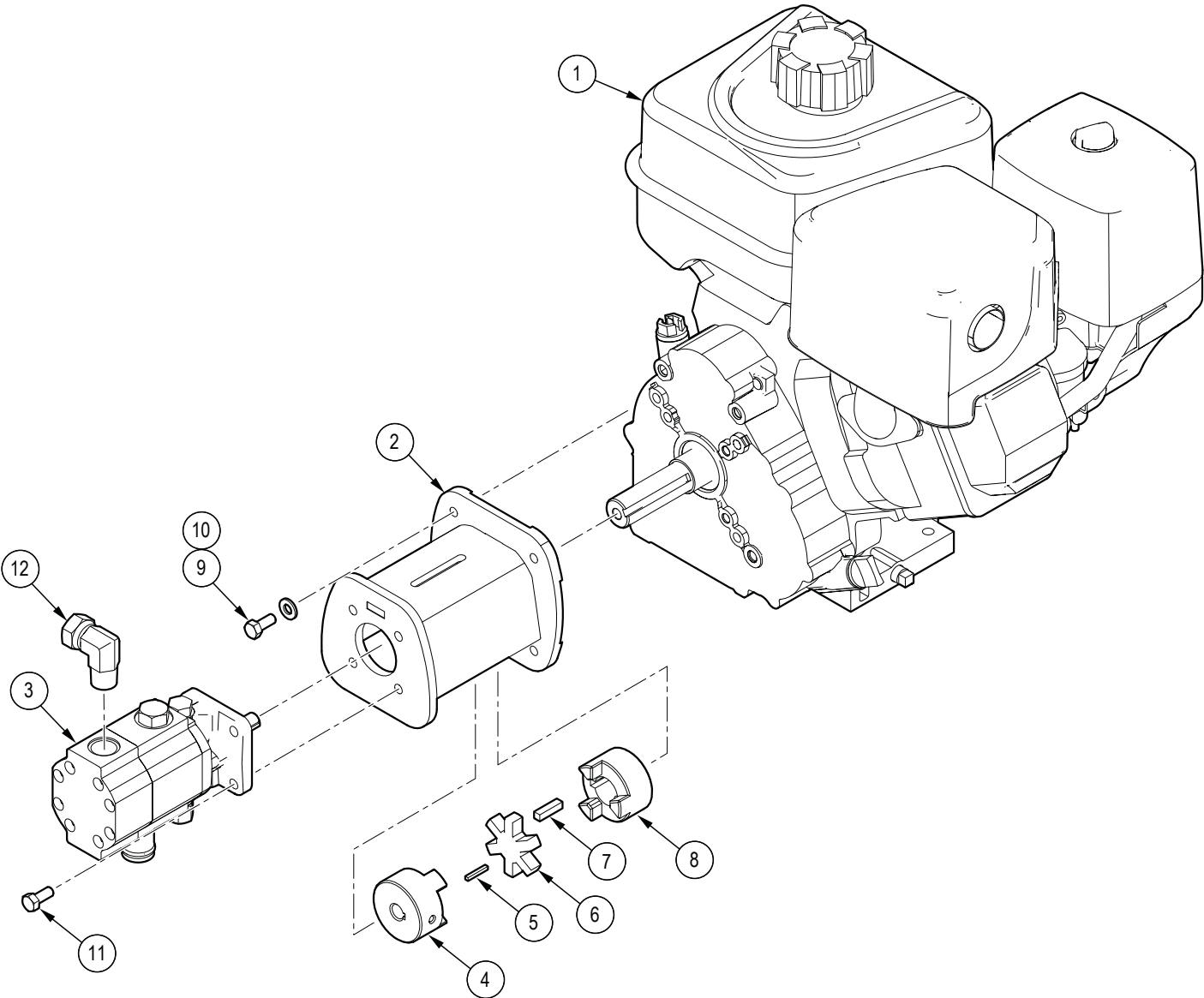


Item No.	Part No.	Description	Qty
1	Z51331	Elbow 90 MP x FPX 0808	4
2	Z56209	Valve, Single Function Detent	1
3	Z72211	Hex Lock Nut, 1/4NC	3
4	Z75114	SHCS, 1/4NC x 1-3/4"	3

Valve Service Kit



Engine and Hydraulics Assembly

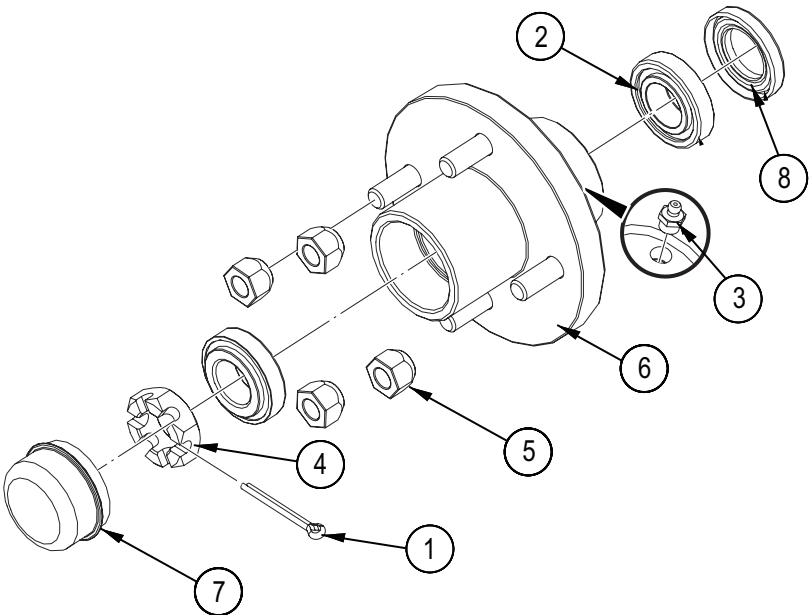


Item	Part No.	Description	Qty
1	Z47765	Vanguard 10 hp (305 cc)	1
2	6081W202	Pump Mount, VG300	1
3	Z53205	Two-Stage Pump, 16GPM	1
4	Z46409	Shaft Coupling, L095 x 1/2"	1
5	Z46511	Key, 1/8" x 1/8" x 7/8"	1
6	Z46405	Spider, L095	1
7	Z46533	Key, 1/4" x 1/4" x 1"	1

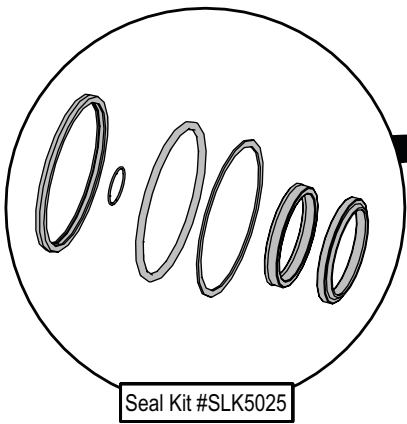
Item	Part No.	Description	Qty
8	Z46404	Shaft Coupling, L095 x 1"	1
9	Z71273	Hex Bolt, 5/16NF x 3/4"	4
10	Z73122G8	SAE Washer, 5/16" Grade 8	4
11	Z71207	Hex Bolt, 5/16NC x 3/4"	4
12	Z51331	Elbow 90, MP x FPX 0808	1

Hub Assembly

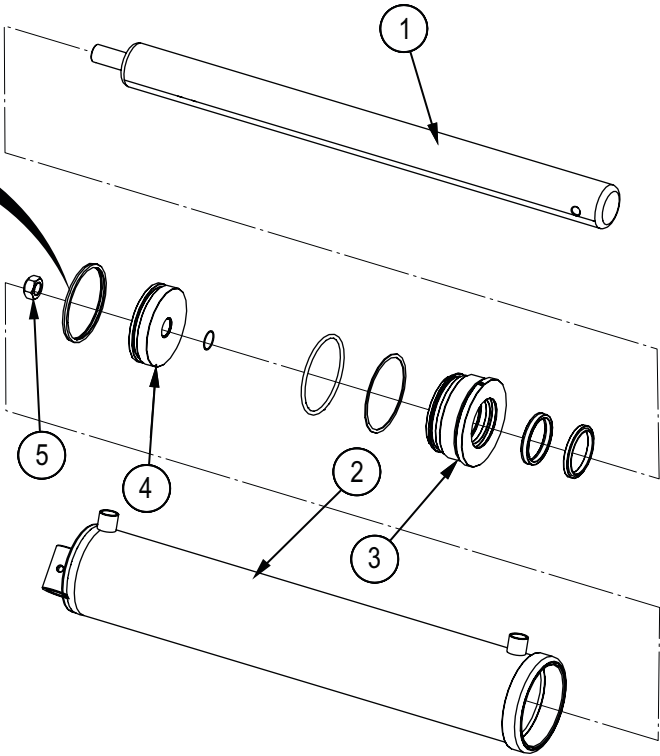
Item No.	Part No.	Description	Qty
1	Z12321	Cotter Pin, 3/16" x 1-3/4"	1
2	Z23201	Roller Bearing, L44643 L44610	2
3	Z29201	Grease Fitting, MP02	1
4	Z72691	Castle Nut, 1NF x 9/16" Thick	1
5	Z72931	Lug Nut, 1/2NF	4
6	Z91201	Hub, 1000lbs x 4on4	1
7	Z91801	Dust Cap, 1.98 Bore	1
8	Z28301	Double Lip Seal, 1-1/4"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



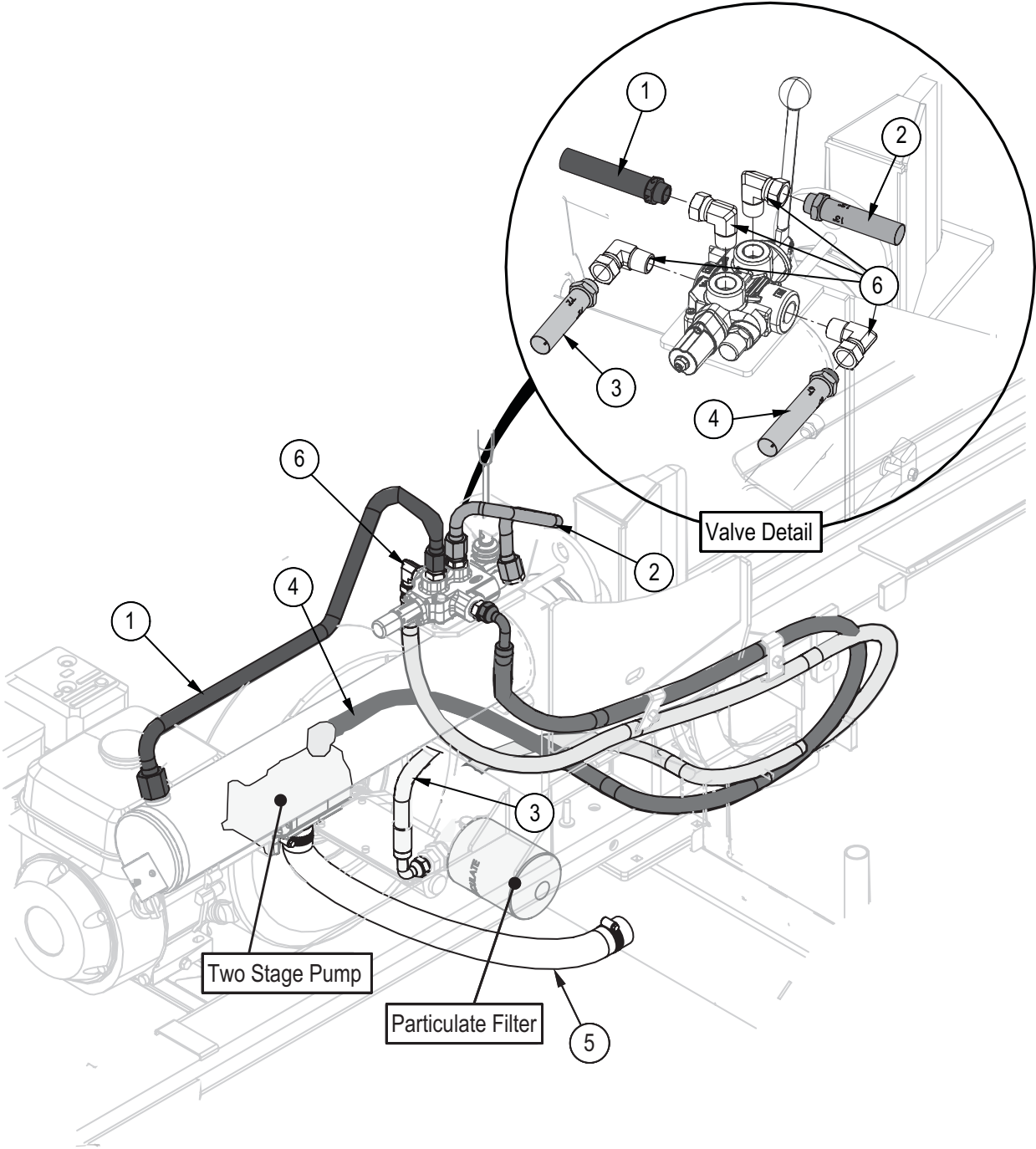
Cylinder Detail



Item No.	Part No.	Description	Qty
1	2015C5012	Rod, 2-1/2 x 1	1
2	2015C5014	Barrel, 5"	1
3	G500-250S	Gland, 5" x 2-1/2"	1
4	P100-500SP	Piston, 5" Bore	1
5	Z72276	Hex Lock Nut, 1NF GR8	1

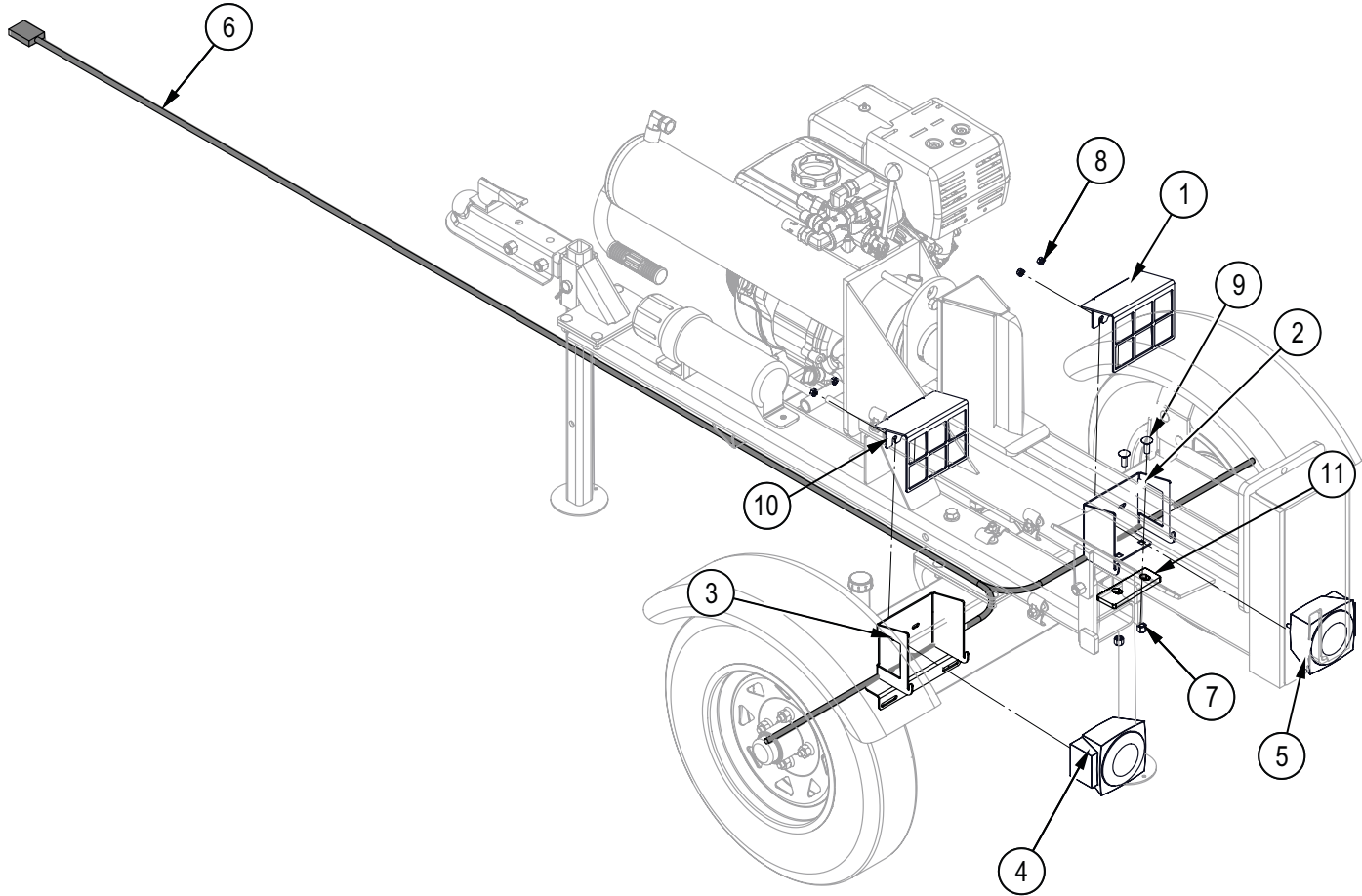


Hydraulic Circuit



Item No.	Part No.	Description	Qty
1	Z52305	1/2" Hose, MP08 x MP08 x 18"	1
2	Z52301	1/2" Hose, MP08 x MP08 x 13"	1
3	Z52311	1/2" Hose, MP08 x MP08 x 72"	1
4	Z52309	1/2" Hose, MP08 x MP08 x 67"	1
5	Z52405	Suction Hose, 1" x 24"	1
6	Z51331	Elbow 90, MP x FPX 0808	4

Wiring Diagram – WX980L

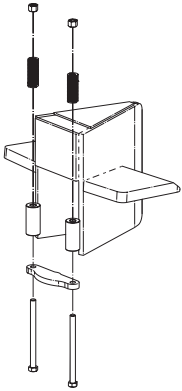


Item No.	Part No.	Description	Qty
1	2054W403	Light Guard, RH	1
2	2054L601	Light Bracket, RH	1
3	2054L402	Light Bracket, LH	1
4	Z61106	STTL Lamp, Square LH	1
5	Z61107	STT Lamp, Square RH	1
6	Z62105	Harness, 110" Lights	1
7	Z72231	Hex Lock Nut, 3/8NC	2
8	Z72941	Serrated Washer Nut, 1/4NC	4
9	Z76231	Carriage Bolt, 3/8NC x 1"	2
10	2054W404	Light Guard, LH	1
11	2054L622	Bracket, Light Base	1

12

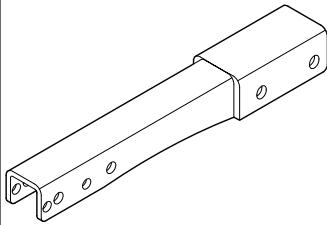
Accessories

For price and availability, contact your local Wallenstein dealer or distributor.



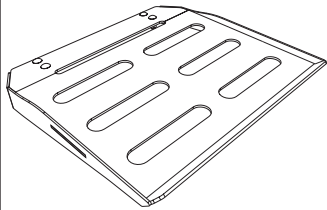
Four-way wedge
Part number W4130

Split wood into four pieces with a single stroke.



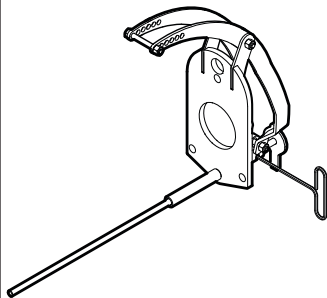
Hitch extension
Part number W4202

12" extension for use with a 2" ball hitch.
This accessory is necessary to tow the machine with an all-terrain vehicle (ATV).



Clamp-on shelf
Part number W4211

Catch your split logs to quickly and easily split them a second time.
This accessory is not compatible with the folding shelf (W4212).



Stroke limiter
Part number W4214

Maximize your productivity when you split shorter logs. The stroke limiter stops the cylinder from fully retracting and can reduce your cycle time by almost 50%.

Bolt Torque

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

IMPORTANT! The torque specifications in these tables are for non-greased or non-oiled threads. Do not grease or oil fastener threads unless otherwise indicated. When using a thread lock, increase the specified torque 5%.

 Bolt grades are identified by the marks on top of the bolt head.

These bolt torque specification tables provide the correct torque settings for common bolts and capscrews. Tighten all bolts to the torque that is specified in the table, unless otherwise indicated. Check the bolt tightness periodically.

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



Metric Bolt Torque Specifications				
Bolt Diameter	Torque			
	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

Tighten flare-type tube fittings:

1. Check the flare and flare seat for defects that might cause leaks.
2. Align the tube with the fitting before tightening.
3. Hand-tighten the swivel nut until it is snug.
4. To prevent the tube from twisting, use two wrenches. Place one wrench on the connector body and tighten the swivel nut with the second wrench. Torque the fitting to the correct specification.

If a torque wrench is not available, use the flats from finger tight (FFFT) method.

Hydraulic Fitting Torque Specifications

Tube size OD	Hex size across flats	Torque		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

Specifications are for non-lubricated connections.

Lug Nut Torque



WARNING!

Wheel lug nuts must be installed and kept at the correct torque to prevent loose wheels, broken studs, or possible separation of a wheel from the axle.

It is an extremely important safety procedure to apply and maintain the correct torque on lug nuts that secure the wheel to the trailer axle. A calibrated torque wrench is the best tool to make sure that the correct amount of torque is applied to a fastener.

Tighten wheel lug nuts to the correct torque before the first use and after each wheel removal. After a wheel is installed, check and torque the lug nuts after the first 10 miles (16 km), 25 miles (40 km), and 50 miles (80 km). Check the lug nut torque periodically thereafter.

- Start all lug nuts onto the threads by hand.
- Tighten lug nuts in stages, following the pattern shown below the Lug Nut Torque Specifications table.

Lug Nut Torque Specifications

Wheel size	Units	First stage	Second stage	Third stage
8 inch	lbf•ft N•m	12–20 16–26	30–35 39–45.5	45–55 58.5–71.5
12 inch	lbf•ft N•m	20–25 26–32.5	35–40 45.5–52	50–60 65–78
13 inch	lbf•ft N•m	20–25 26–32.5	35–40 45.5–52	50–60 65–78
14 inch	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156
15 inch	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156
16 inch	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156

Lug nut torque pattern:

