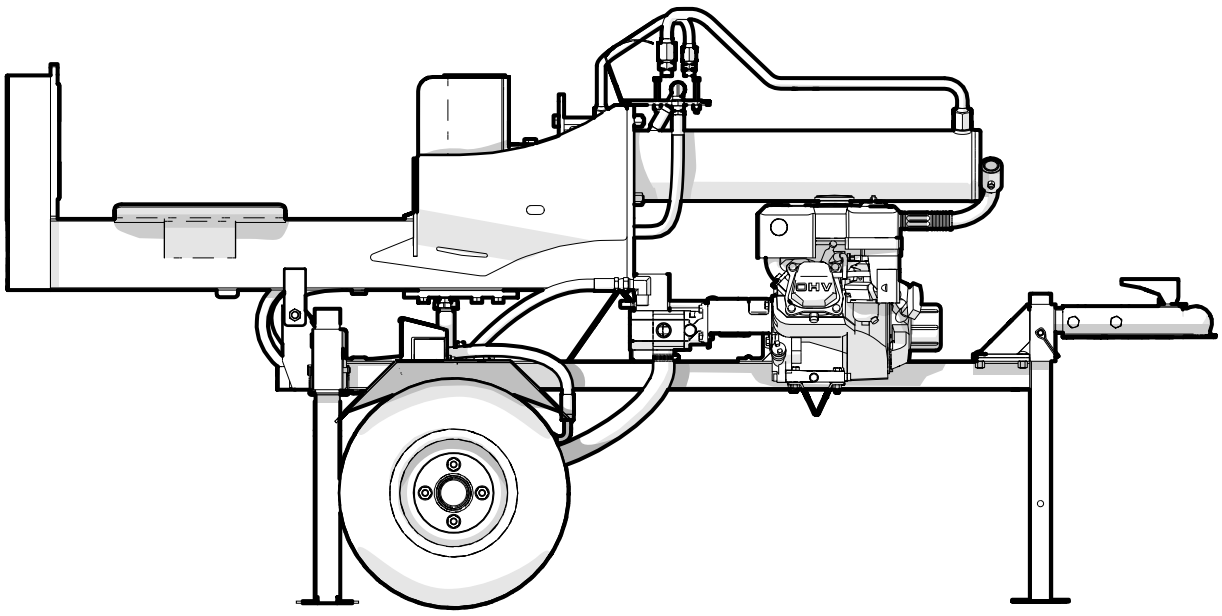
Part Number: 2073T000

PARTS MANUAL

Serial Number 740001 & up

WXR740/L
TRAILER WOOD SPLITTER



WALLENSTEIN

Revision B1 Jan-2018

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://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. 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. • © 2018

⚠ WARNING!

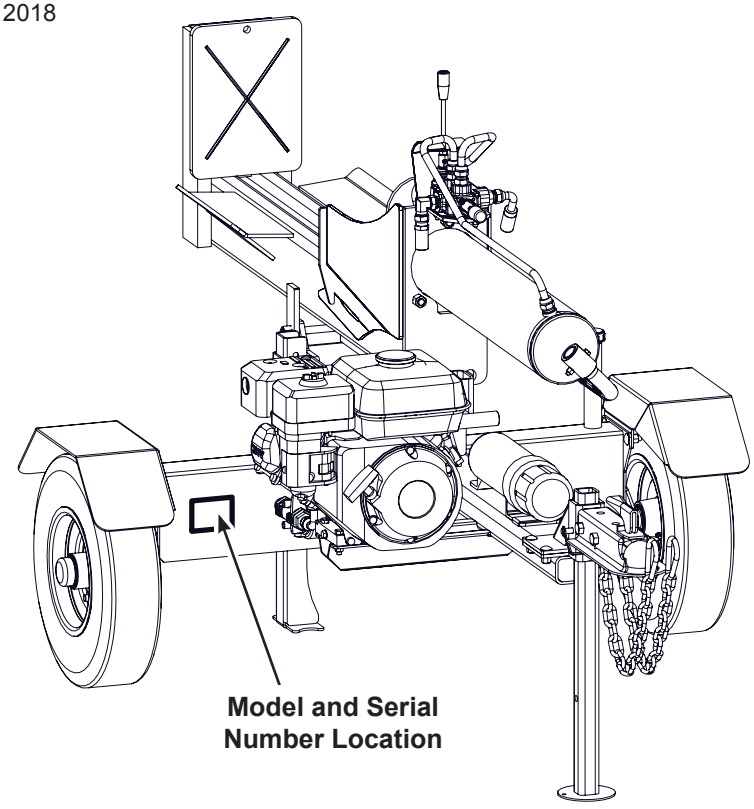
Refer to the operators manual for safe operation and maintenance.

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 product information for future reference.



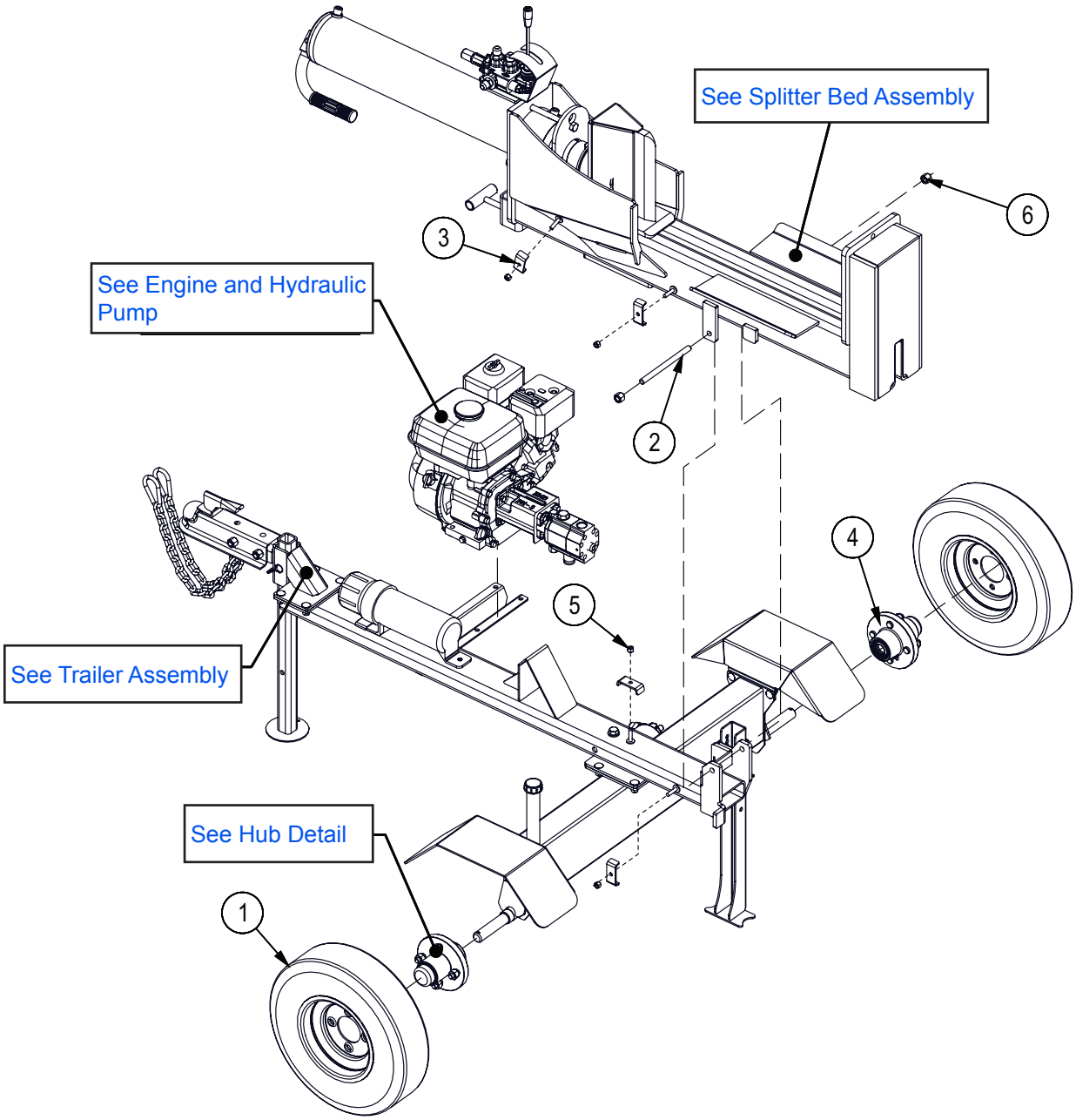
Model and Serial Number Location

www.wallensteinequipment.com

Contents

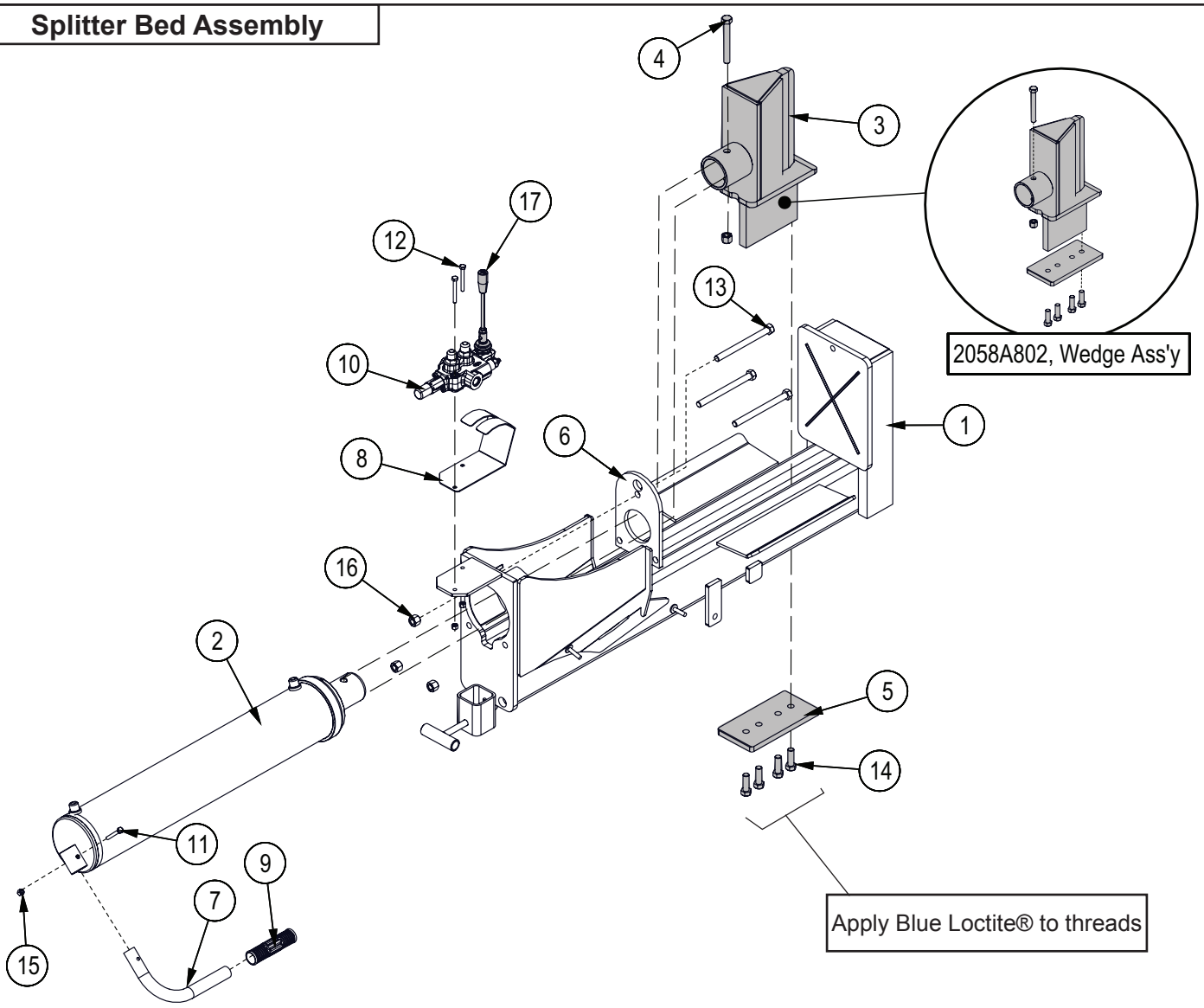
Main Frame Assembly 4
Splitter Bed Assembly 5
Trailer Assembly 6
Hub Detail 7
Cylinder Detail 7
Engine and Hydraulic Pump Detail 8
Hydraulic Plumbing Diagram 9
Wiring Harness and Light Kit 10
Decal Layout 11
Accessories 12
Common Bolt Torque Values 13
Hydraulic Fitting Torque Values 14
Wheel Lug Torque Values 14

Main Frame Assembly



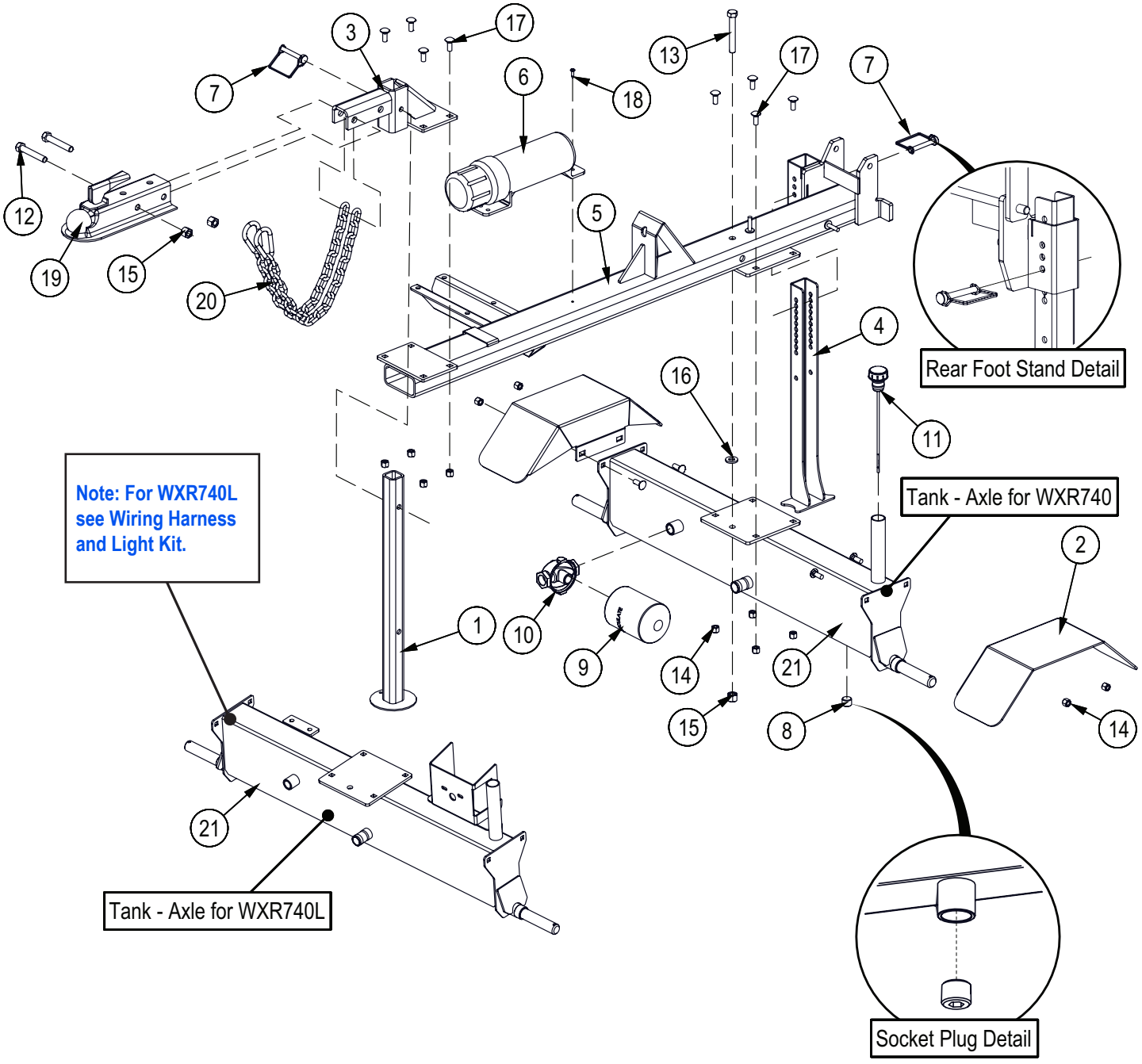
Item No.	Part No.	Description	Qty
1	Z91301	4.80-8 LRB SportTrail 4on4"	2
2	2016M602	Pin, Pivot Threaded	1
3	2054L412	Clamp, Two Hose	4
4	Z91202	Idler Hub Assy, 1000lbs x 4on4" x 1"	2
5	Z72221	Hex Lock Nut, 5/16NC	4
6	Z72251	Hex Lock Nut, 1/2NC	2

Splitter Bed Assembly



Item No.	Part No.	Description	Qty
1	2073W101	Splitter Bed, WX640	1
2	2073C105	Cylinder, 4-1/2 x 24 x 2-1/2 x JIC	1
3	2058W803	Wedge	1
4	Z71537	Hex Bolt, 1/2NC x 3-3/4"	1
5	2014S414	Plate, Sliding Wedge Capture	1
6	2032S213	Plate, Cylinder Retaining	1
7	2054S414	Handle, Lift	1
8	2073L007	Control Plate, Regen Valve	1
9	Z19321	Handle Grip, 1"	1
10	Z56223	Single Spool Valve, OC Regen SCDK x 12GPM	1
11	Z71120	Hex Bolt, 1/4NC x 2"	1
12	Z71122	Hex Bolt, 1/4NC x 2-1/4"	2
13	Z71560	Hex Bolt, 1/2NC x 6"	3
14	Z71576G8	Hex Bolt, 1/2NF x 1-1/2" G8	4
15	Z72211	Hex Lock Nut, 1/4NC	3
16	Z72251	Hex Lock Nut, 1/2NC	4
17	AL01/M8X150	Valve Handle Kit	1

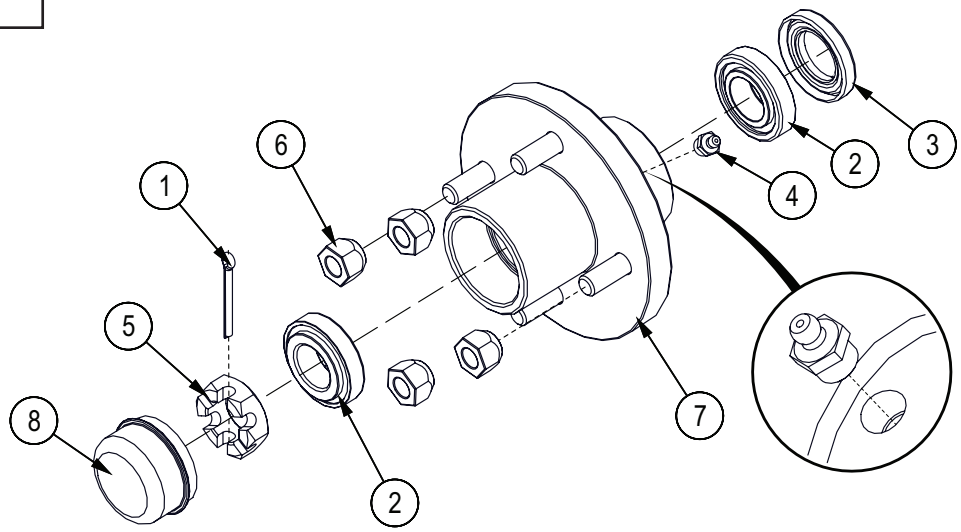
Trailer Assembly



Item No.	Part No.	Description	Qty
1	2054W406	Jack Stand, Front	1
2	2054W408	Fender	2
3	2054W604	Hitch Mount	1
4	2073L115	Channel, Rear Foot Stand	1
5	2073W102	Tongue, WXR740	1
6	Z96503	Manual Tube, 3-1/2" Short	1
7	Z12432	Snap Lock Pin, 3/8" x 2-1/2"	2
8	Z51192	Socket Plug, MP 08	1
9	Z55301	Particulate Filter, FP12	1
10	Z55302	Filter Cap, MP12 x FP12	1
11	Z55404	Vented Plug Dipstick x 9"	1

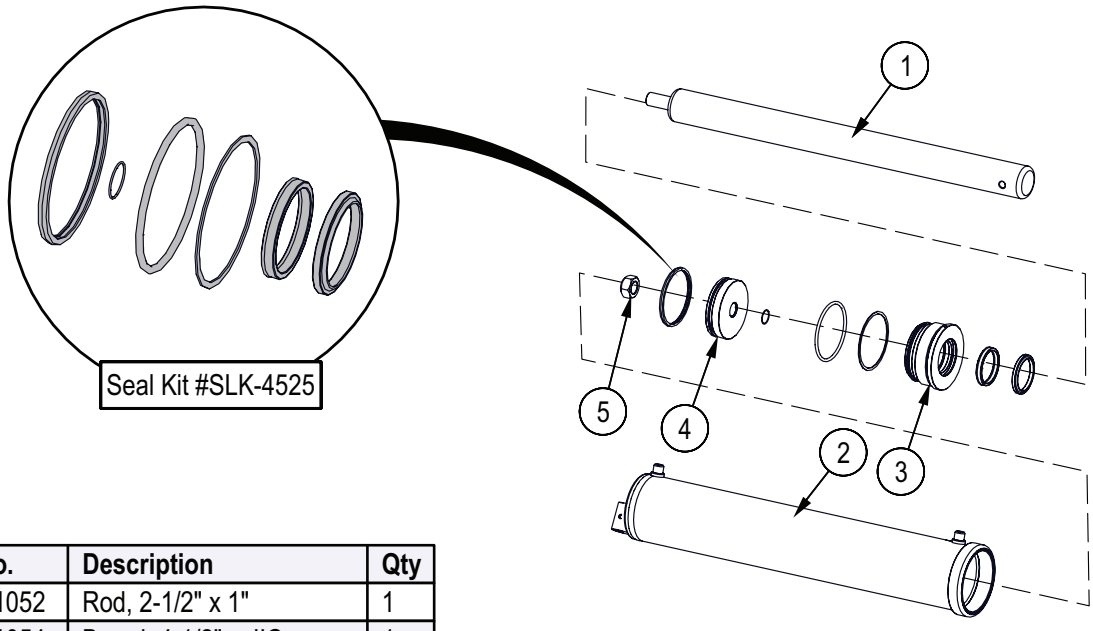
Item No.	Part No.	Description	Qty
12	Z71530	Hex Bolt, 1/2NC x 3"	2
13	Z71535	Hex Bolt, 1/2NC x 3-1/2"	1
14	Z72231	Hex Lock Nut, 3/8NC	12
15	Z72251	Hex Lock Nut, 1/2NC	3
16	Z73151	SAE Washer, 1/2"	1
17	Z76231	Carriage Bolt, 3/8NC x 1"	12
18	Z76712	Self-tapping Screw, #10 x 3/4"	1
19	Z91614	Hitch Coupler, 2" Ball x 2" x 3500lbs	1
20	Z92303	Safety Chain, 1/4" x 2ft with Snap	2
21	2073W105	WXR740 Tank - Axle	1
21	2073W105-L	WXR740L Tank - Axle	1

Hub Detail



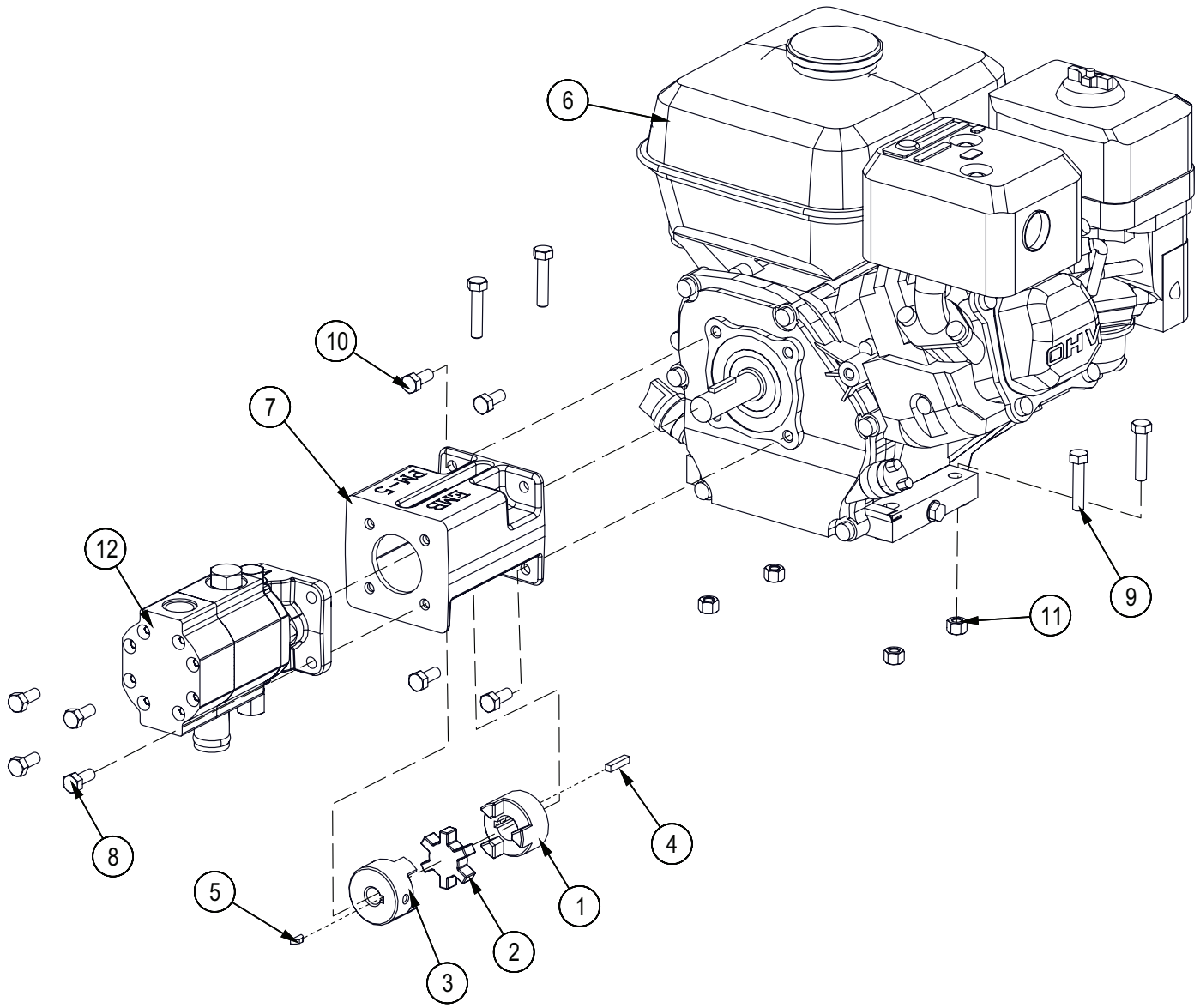
Item No.	Part No.	Description	Qty
1	Z12321	Cotter Pin, 3/16" x 1-3/4"	1
2	Z23201	Roller Bearing, L44643 L44610	2
3	Z28301	Double Lip Seal, 1-1/4"	1
4	Z29201	Grease Fitting, MP02	1
5	Z72691	Castle Nut, 1NF x 9/16" Thick	1
6	Z72931	Lug Nut, 1/2NF	4
7	Z91201	Hub, 1000lbs x 4on4	1
8	Z91801	Dust Cap, 1.98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

Cylinder Detail



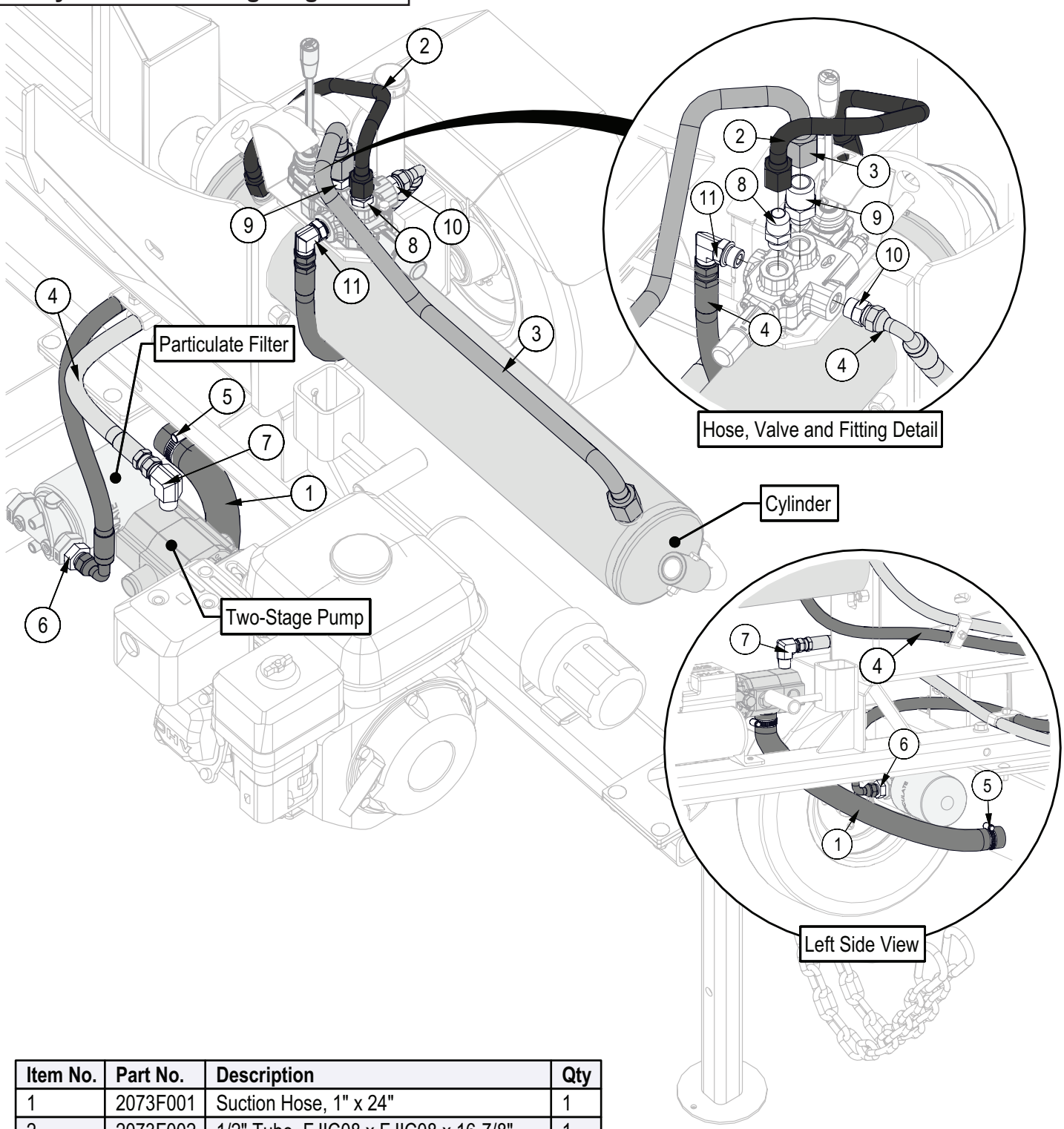
Item No.	Part No.	Description	Qty
1	2073C1052	Rod, 2-1/2" x 1"	1
2	2073C1054	Barrel, 4-1/2" x JIC	1
3	G450-250S	Gland, 4-1/2" x 2-1/2"	1
4	P100-450SP	Piston, 4-1/2" Bore	1
5	Z722909	Hex Top-lock Nut, 1-14NF	1

Engine and Hydraulic Pump Detail



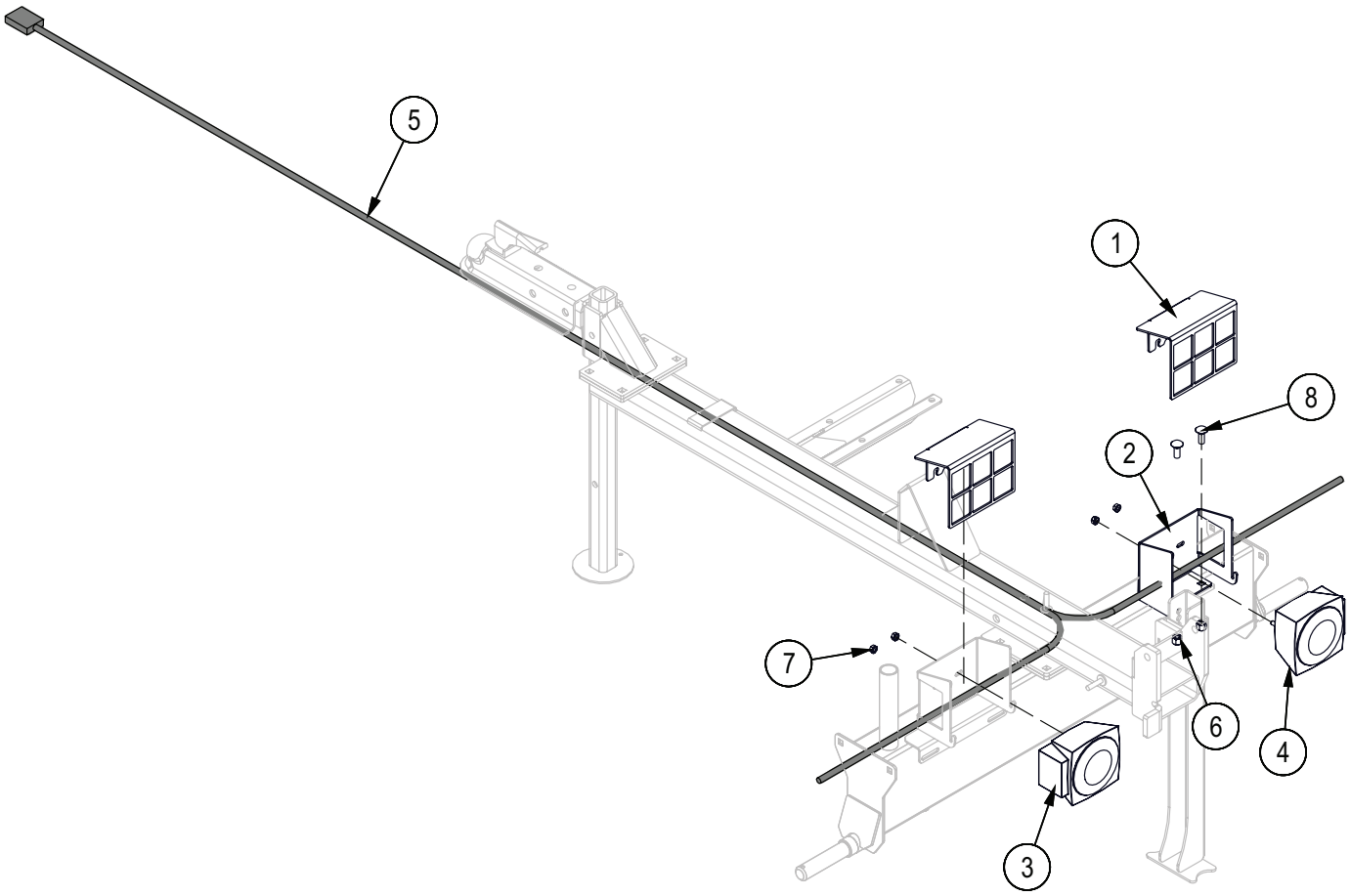
Item No.	Part No.	Description	Qty
1	Z46406	Shaft Coupler, L075 x 3/4"	1
2	Z46408	Spider, L075	1
3	Z46410	Shaft Coupling, L075 x 1/2"	1
4	Z46521	Key, 3/16" x 3/16" x 7/8"	1
5	Z46592	Woodruff Key, 1/8" x 1/2"	1
6	Z47131	Honda GX200UTQH6, Rope	1
7	Z53801	Pump Mount, PM-5	1
8	Z71207	Hex Bolt, 5/16NC x 3/4"	4
9	Z71215	Hex Bolt, 5/16NC x 1-1/2"	4
10	Z71273	Hex Bolt, 5/16NF x 3/4"	4
11	Z72221	Hex Lock Nut, 5/16NC	4
12	Z53207	Two-Stage Pump, 13GPM	1

Hydraulic Plumbing Diagram



Item No.	Part No.	Description	Qty
1	2073F001	Suction Hose, 1" x 24"	1
2	2073F002	1/2" Tube, FJIC08 x FJIC08 x 16-7/8"	1
3	2073F004	3/4" Tube, FJICX10 x FJICX12 x 28-3/16"	1
4	2073F101	1/2" Hose, FJIC08 x 90FJIC08 x 72"	2
5	Z79401	Hose Clamp, SAE #16 (1-1/2")	2
6	Z51447	Straight, MJIC x MP 0812	1
7	Z51451	Elbow 90, MJIC x MP 0808	1
8	Z516410	Straight, MJIC x MORB 1008	1
9	Z516411	Straight, MJIC x MORB 1208	1
10	Z51643	Straight, MJIC x MORB 0808	1
11	Z51653	Elbow 90, MJIC x MORB 0808	1

Wiring Harness and Light Kit



Item No.	Part No.	Description	Qty
1	2089L351	Light Guard	2
2	2089L352	Light Bracket, RH	1
3	Z61106	STTL Lamp, Square LH	1
4	Z61107	STT Lamp, Square RH	1
5	Z62105	Harness, 110" Lights	1
6	Z72231	Hex Lock Nut, 3/8NC	2
7	Z72941	Serrated Washer Nut, 1/4NC	4
8	Z76231	Carriage Bolt, 3/8NC x 1"	2

IMPORTANT! When assembling or replacing wire harnesses, apply a thin coating of silicone dielectric grease to the harness connectors.

Clean off any corrosion or loose particles, then apply a small amount to the surfaces of the connectors where they meet. The grease helps to stop any possibility of future corrosion.

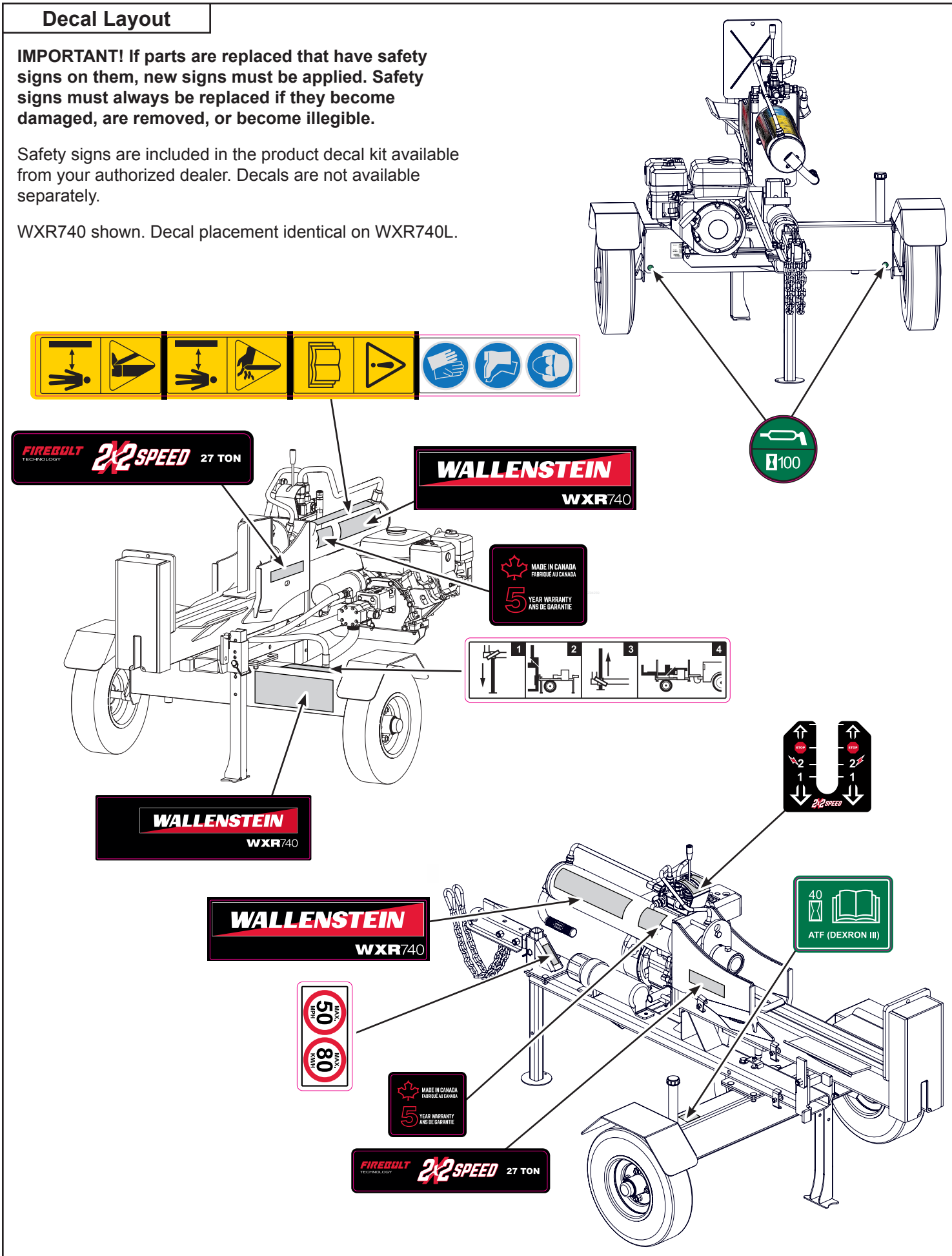
Reassemble the connection. If grease squeezes out, wipe off with a rag or towel.

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.

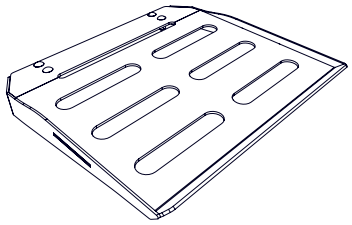
Safety signs are included in the product decal kit available from your authorized dealer. Decals are not available separately.

WXR740 shown. Decal placement identical on WXR740L.



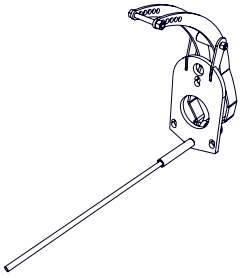
Accessories

Call your dealer for pricing and availability



Clamp-on Shelf Extension – P/N W4211

Fits all WXR splitter models.



Splitter Stroke Limiter – P/N W4213

Manually set return stroke.

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

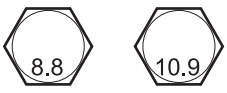
Bolt Diameter	Torque Value					
	SAE Gr. 2		SAE Gr. 5		SAE Gr. 8	
	lbf•ft	N•m	lbf•ft	N•m	lbf•ft	N•m
1/4"	6	8	9	12	12	17
5/16"	10	13	19	25	27	36
3/8"	20	27	33	45	45	63
7/16"	30	41	53	72	75	100
1/2"	45	61	80	110	115	155
9/16"	60	95	115	155	165	220
5/8"	95	128	160	215	220	305
3/4"	165	225	290	390	400	540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



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.

Wheel Lug Torque Values

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.

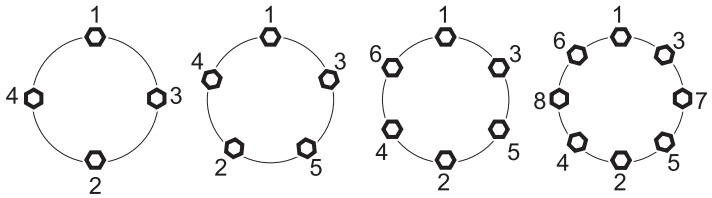
Wheel lugs should be torqued before first road use and after each wheel removal. Check and re torque after the first 10 miles (16 km), 25 miles (40 km), and again at 50 miles (80 km). Check periodically thereafter.

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



4-Bolt 5-Bolt 6-Bolt 8-Bolt