

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.

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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 manual for safe operation and maintenance

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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.

Bolt	ENGLISH TORQUE SPECIFICATIONS Bolt Torque*						
Diamter "A"	SAE 2 (N.m) (Ib-ft)		SAE 5 (N.m) (lb-ft)		SAE 8 (N.m) (Ib-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	
		I SA	E-2	SAE-5	SAE-8	;	

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.

METRIC TORQUE SPECIFICATIONS						
Bolt	Bolt Torque*					
Diameter	8	.8	10.9			
"A"	(N.m) (lb-ft)		(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		

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∙		Recomr Turns To (After Tighte	Tighten Finger
(in.)	(in.)	(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.

Wheel Lug Torque

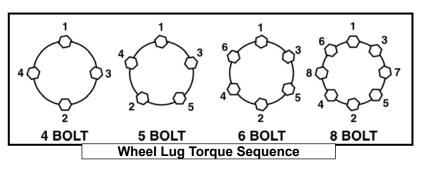
It is extremely important safety procedure to apply and maintain proper wheel mounting torque on your trailer axle. Torque wrenches are the best method to assure the proper amount of torque is being applied to a fastener.

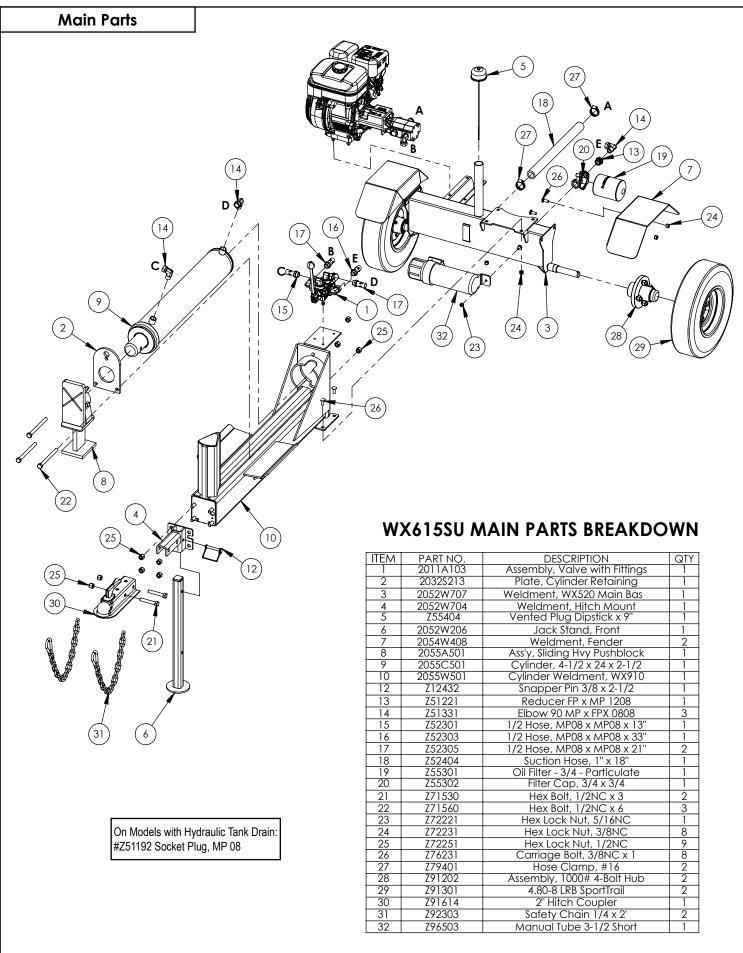
Wheel lugs should be torqued before first road use and after each wheel removal. Check and re torque after the first 16Km (10 miles), 40Km (25 miles), and again at 80Km (50 miles). Check periodically thereafter.

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 Torque Requirements						
Wheel Size	Torque Unit	1st Stage	2nd Stage	3rd Stage		
8"	ft-lbs	12 - 20	30 - 35	45 - 55		
	Nm	16 - 26	39 - 45.5	58.5 - 71.5		
12"	ft-lbs	20 - 25	35 - 40	50 - 60		
	Nm	26 - 32.5	45.5 - 52	65 - 78		
13"	ft-lbs	20 - 25	35 - 40	50 - 60		
	Nm	26 - 32.5	45.5 - 52	65 - 78		
14"	ft-lbs	20 - 25	50 - 60	90 - 120		
	Nm	26 - 32.5	65 - 78	117 - 156		
15"	ft-lbs	20 - 25	50 - 60	90 - 120		
	Nm	26 - 32.5	65 - 78	117 - 156		
16"	ft-lbs	20 - 25	50 - 60	90 - 120		
	Nm	26 - 32.5	65 - 78	117 - 156		



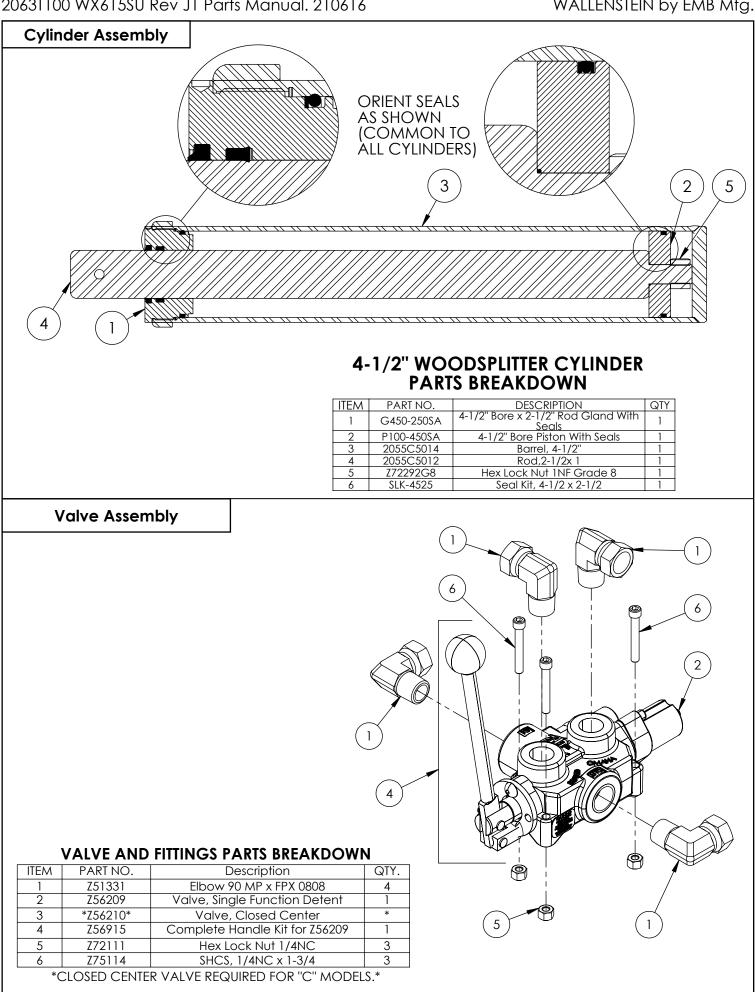


Engine and Hydraulics Assembly

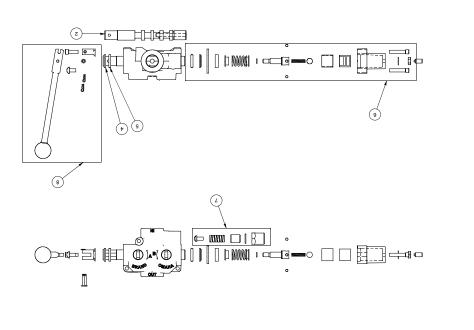
	ZUUUAU				_		
ITEM	PART NO.	DESCRIPTION	QTY				\bigcirc
1	Z46406	Shaft Coupler L075 x 3/4	1			A	(6)
2	Z46408	Coupler Spider L075	1				
3	Z46410	Shaft Coupler L075 x 1/2	1				, ,
4	Z46542	Key 5/16 x 5/16 x 1	1				
5	Z46592	Woodruff Key, 1/8 x 1/2	1				So here
6	Z47701	Subaru SP170 Engine	1				
7	Z51331	Elbow 90 MP x FPX 0808	1				
8	Z53204	Pump, 11gpm Two-Stage	1				
9	Z53801	Pump Mounting, PM-5	1				
10	Z71207	Hex Bolt 5/16NC x 3/4	4	\bigcirc			
11	Z71215	Hex Bolt, 5/16NC x 1-1/2	4	(9)			
12	Z71273	Hex Bolt, 5/16NF x 3/4	4	\bigvee		oNO	
13	Z72221	Hex Lock Nut 5/16NC	4			9 AZ -	

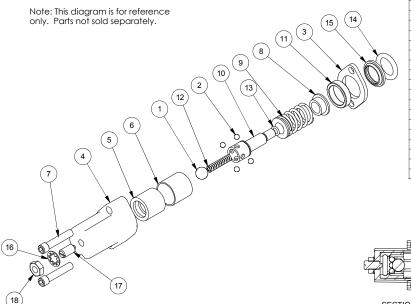
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DAT DNINAAW	P1654	Ŀ	6
SPOOL	C#16054S	ŀ	-
CAP SCREW	80£-JS	k	
KNOB	SF311	ŀ	
WERDS . HOAM	9dH	ŀ	
DIN CLIP	2921d	2	
NId	69£-1S	5	
JUDAH	89£-JS	ŀ	
SIATO	A78642	ŀ	
SEAL RETAINER	92£-1S	k	
RETAINER	2223S	ŀ	
HANDLE KIT	91699Z	i	8
LTDDDDEL	Ar8642	i	
SPRING	9098	i	
ADJ. SCREW	A448F364A	ŀ	
0-BING 2-016	SF322	ŀ	
CAP NUT	P1603	k	
BELIEF	ଯ-୫୦S	ŀ	L
TUN MAL X3H 8h/8	\$1204	ŀ	_
PLUNGER, SPRING	2E203	ŀ	
5/16 LOCK WASHER	2F502	ŀ	
A MIPER	90257	ŀ	
O-RING, BLUE, METRIC	967JS	ŀ	
0-RING 3-902	DC7583	ŀ	
DETENT SPRING	90ES1	ŀ	
SPACER	SF315	ŀ	
SNISUOH	SF492	ŀ	
CENTERING SPRING	0673S	ŀ	
CENTER STOP	6843S	5	
ALLEN SCREW	9843S	5	
SPACER	SF483	ŀ	
TS SLEEVE	XDC672	ŀ	
SH LS ENDCAP	722743S	ŀ	
RETAINER	8F306	ŀ	
3/16 BALL	DC7604	4	
JJA8 81\7	29098	ŀ	
ST-BUS	S1-BUS	ŀ	9
QUAD RING	2E304	ŀ	g
MIPER	SF305	ŀ	4
DAT 3MAN	0#21d	ŀ	3
SPOOL	L5304T4J	ŀ	2
AO CASTING	AOCASTB	ŀ	ŀ
DESCRIPTION	.ON TAA9	1.110	ITEM NO.

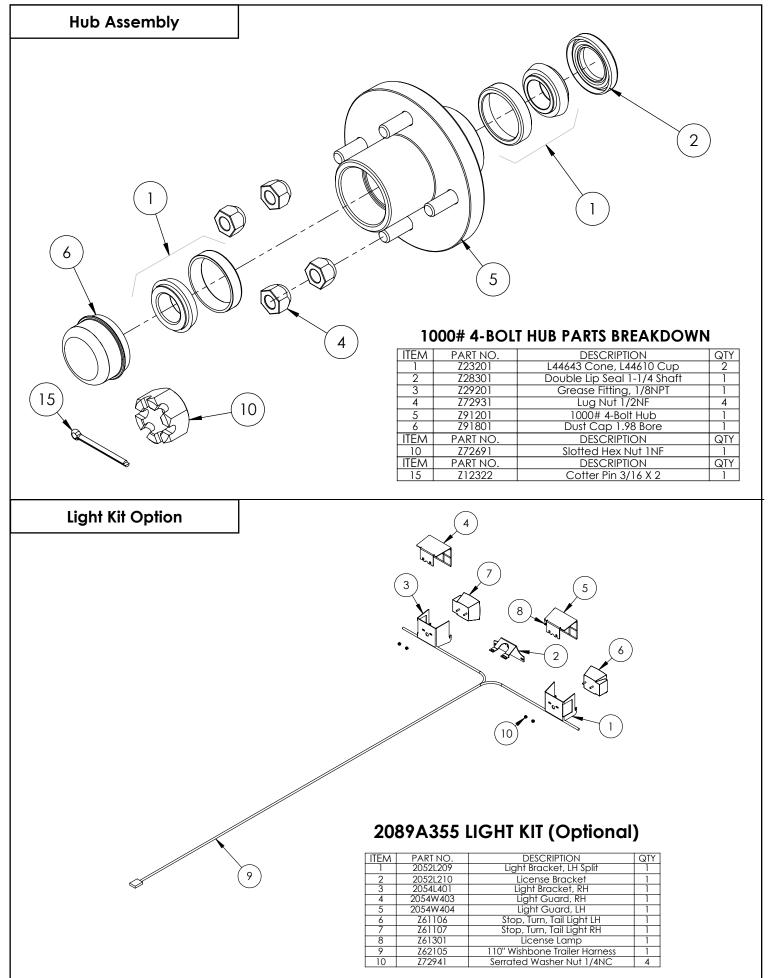


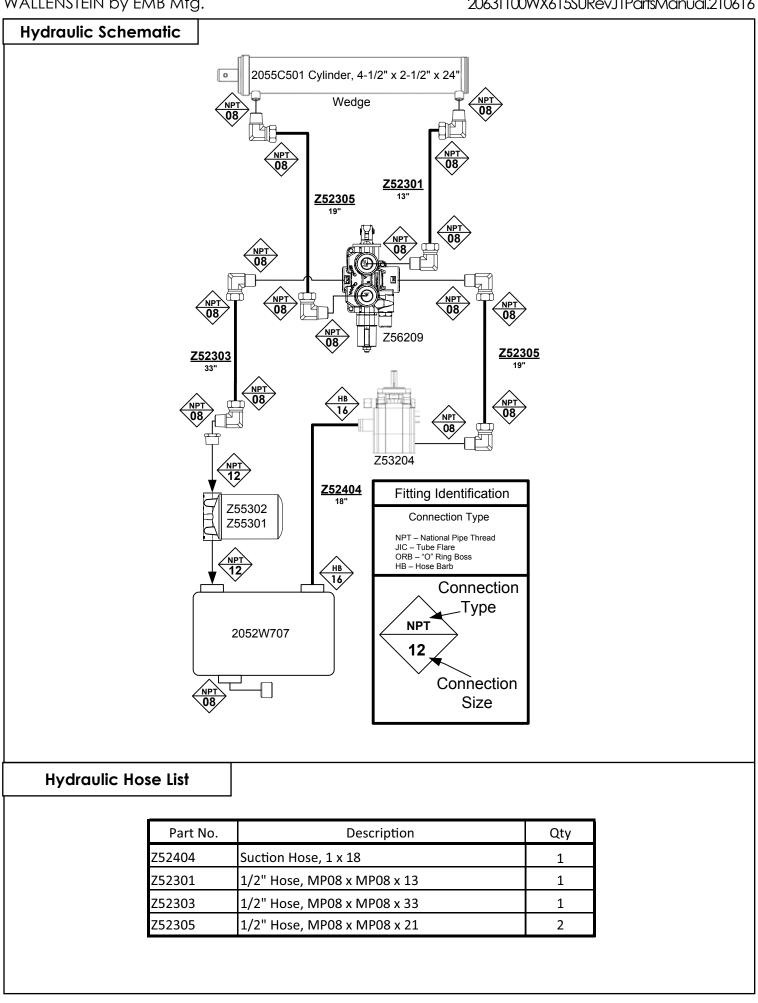


ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	B5057	7/16 BALL
2	4	DC7604	3/16 BALL
3	1	SF306	RETAINER
4	1	SF477L	SH LS ENDCAP
5	1	SF480	SD SLEEVE
6	1	SF483	SPACER
7	2	SF486	ALLEN SCREW
8	2	SF489	CENTER STOP
9	1	SF490	CENTERING SPRING
10	1	SF492	HOUSING
11	1	SF315	SPACER
12	1	LS305	DETENT SPRING
13	1	DC7583	O-RING 3-902
14	1	SF496	METRIC O-RING
15	1	LS306	LS WIPER
16	1	SF502	5/16 LOCK WASHER
17	1	SF503	SPRING PLUNGER
18	1	SF504	5/16 HEX JAM NUT









Label Layout

