

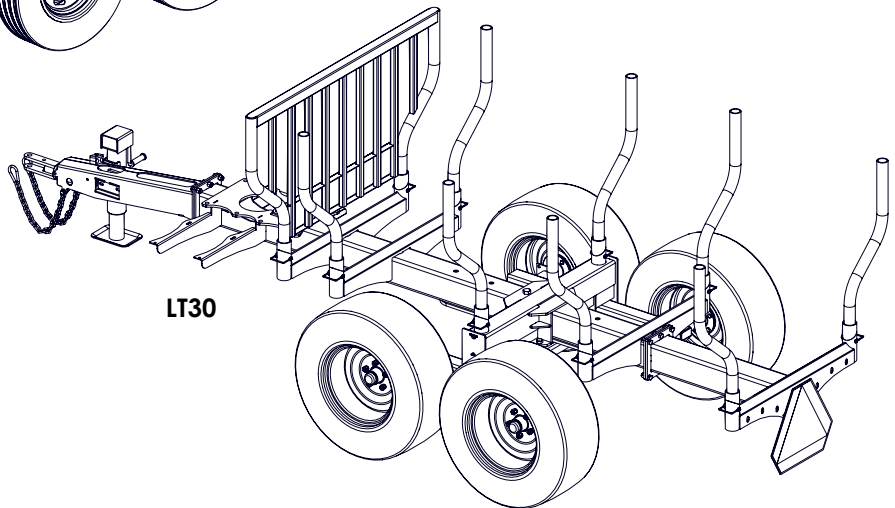
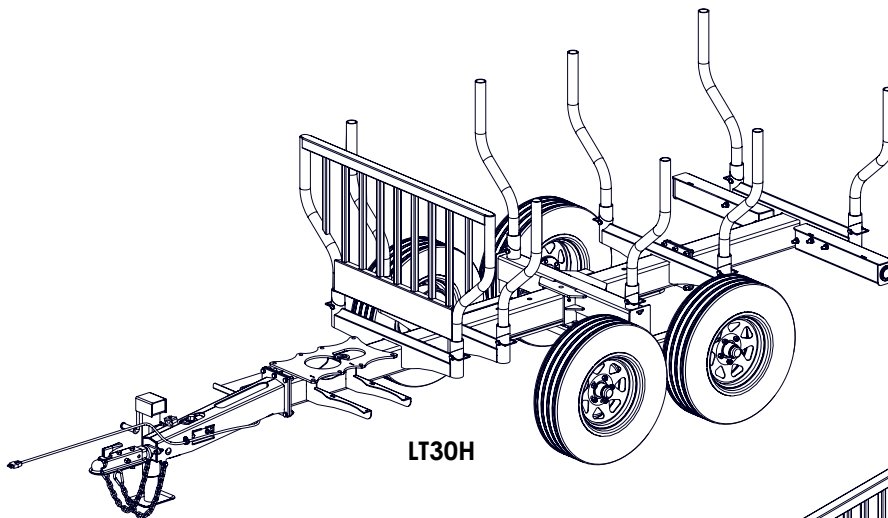
WALLENSTEIN

BY EMB MFG INC.

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LT30 Timber Talon Log Trailer Parts Manual

LT30H & LT30HA starting with S/N's 2E9US1116FS030006 and on
LT30 & LT30A starting with S/N 30T27



Refer to the operators
manual for safe
operation and
maintenance

6050 LT30 RevB1 Parts Manual.040516
Rev # B1 110516

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.

Reproduction of this parts manual of any kind is prohibited without prior written permission from EMB Mfg.

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.



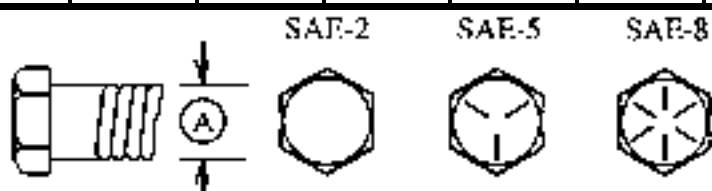
Refer to the operators
manual for safe
operation and
maintenance

Bolt Torque**CHECKING BOLT TORQUE**

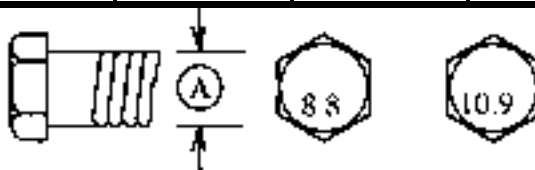
The tables shown below give correct torque values for various bolts and capscrews. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

ENGLISH TORQUE SPECIFICATIONS

Bolt Diameter "A"	Bolt Torque*					
	SAE 2 (N.m) (lb-ft)		SAE 5 (N.m) (lb-ft)		SAE 8 (N.m) (lb-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

**METRIC TORQUE SPECIFICATIONS**

Bolt Diameter "A"	Bolt Torque*			
	8.8 (N.m) (lb-ft)		10.9 (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



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.

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•		Recommended Turns To Tighten (After Finger Tightening)	
		(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.

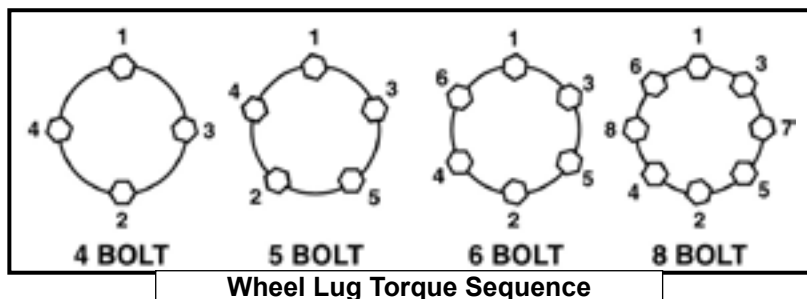
Wheel lugs should be torqued before first road use and after each wheel removal. Check and re torque after the first 16Km (10 miles), 40Km (25 miles), and again at 80Km (50 miles). Check periodically thereafter.

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



LX95 / LT30 Variation Chart

The LX / LT series of Timber Talon Grapples and Log Trailers are available with different options and features. Use the chart below to identify your particular model when ordering parts.

LX95 / LT30 Timber Talon Comparison Chart			Boom Mounting Combination		<i>Three Point Hitch</i>	<i>Trailer / Bunk Posts</i>	<i>Dual Speed Winch</i>	<i>Surge Brakes</i>	<i>Highway Kit</i>	<i>Hydraulic Tandem</i>
Grapple Boom			LX95							
Grapple Boom Off Road Trailer			LX95	LT30		✓				
Grapple Boom Trailer - ATV Kit			LX95	LT30A		✓		✓		✓
Grapple Boom Trailer - Highway Kit			LX95	LT30H		✓		✓	✓	
Grapple Boom Trailer - Highway & Hydraulic Tandem Kits			LX95	LT30HA		✓		✓	✓	✓
Grapple Boom 3 Point Hitch Kit			LX95	L400	✓					
W i n c h M o d e l s	Grapple Boom with Winch		LX95PW				✓			
	Grapple Boom with Winch Trailer - ATV Kit		LX95W	LT30A		✓	✓	✓		✓
	Grapple Boom with Winch Trailer - Highway & Hydraulic Tandem Kits		LX95W	LT30HA		✓	✓	✓	✓	✓
	Grapple Boom with Winch Off Road Trailer		LX95PW	LT30		✓	✓			
	Grapple Boom with Winch Trailer - Highway Kit		LX95PW	LT30H		✓	✓	✓	✓	
	Grapple Boom with Winch 3 Point Hitch Kit		LX95PW	L400	✓		✓			

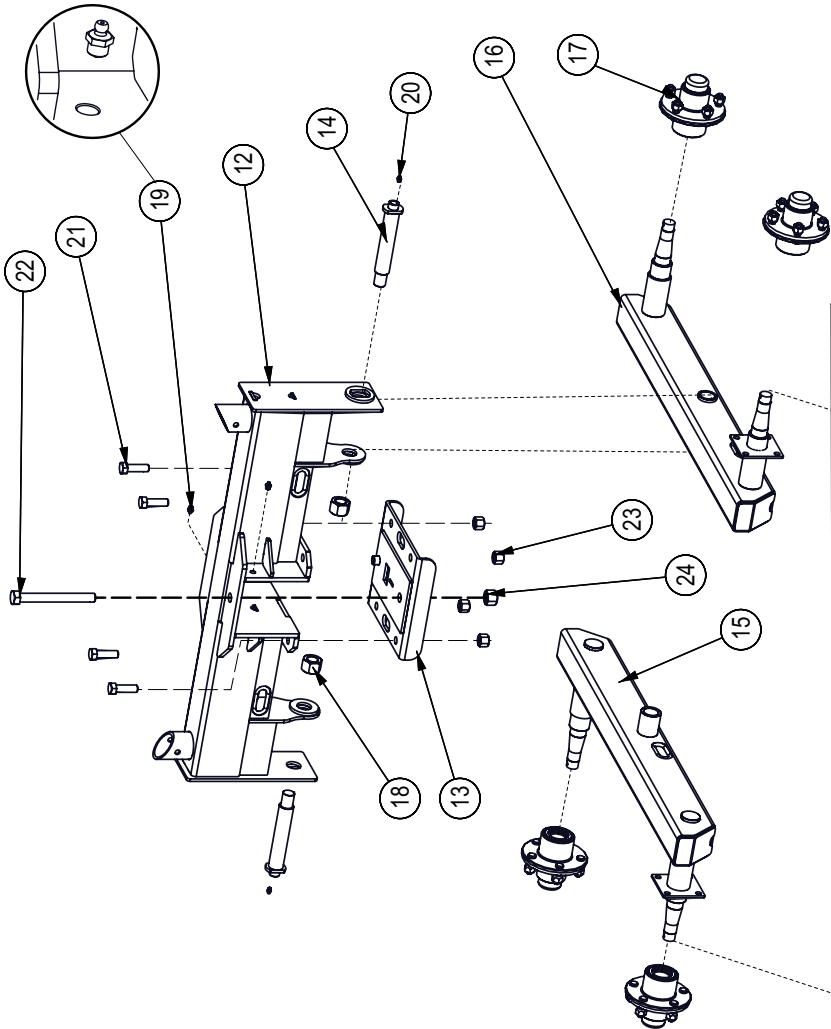
The diagram shows an exploded view of a trailer assembly. The main frame (1) is a long, narrow structure with a central support. The axle assembly (2) is shown below the frame, with wheels (3) and tires (4) attached. The front end (5) features a hitch and a bumper. The rear end (6) has a hitch and a bumper. The side rails (7) are shown on the left, with a grill (8) and a weldment (9) attached. The diagram also shows various bolts (10), nuts (11), and washers (12) used in the assembly. A BOM table is provided at the bottom right.

BOM ID	Part No.	Description	Qty
1	6050W165	Main Frame	1
2	6050W167	Weldment, Grill	1
3	6050W168	Bunk Post	8
4	6050W169	Trailer Extension	1
5	Z12432	Snap Lock Pin, 3/8" x 2-1/2"	10
6	Z71515	Hex Bolt, 1/2NC x 1-1/2"	6
7	Z72251	Hex Lock Nut, 1/2NC	6
8	Z91328	27x10.5-15 (TL) 8PR Multi-Trac 5on4-1/2"	4
9	Z91317	ST205/75R14 LRC Radial Trail 5on4-1/2"	4

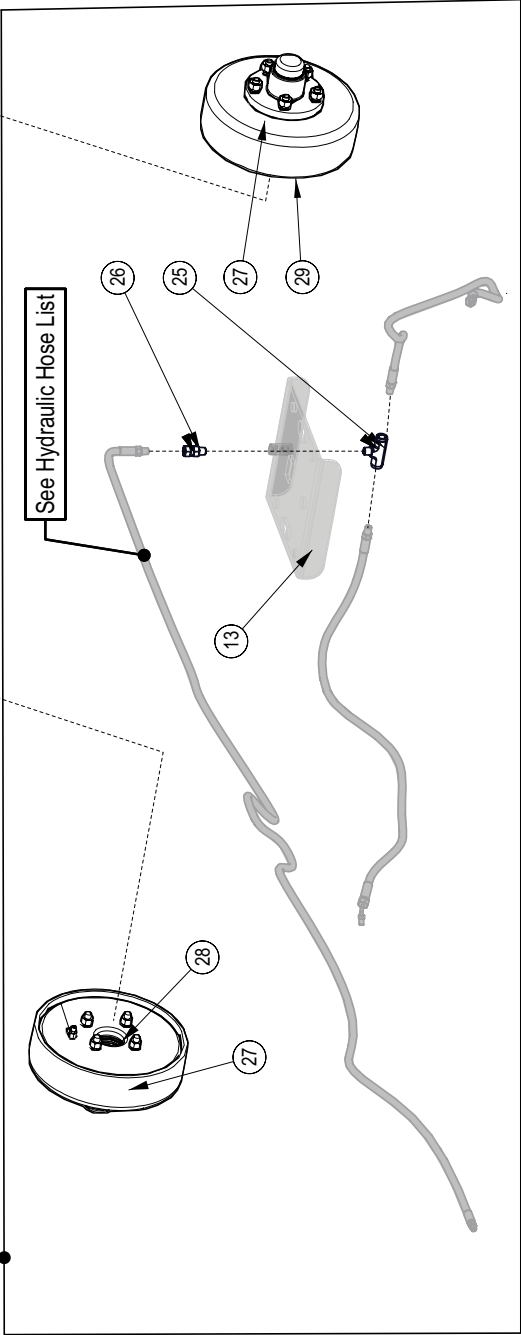
BOM ID	Part No.	Description	Qty
1	6050W165	Main Frame	1
2	6050W167	Weldment, Grill	1
3	6050W168	Bunk Post	8
4	6050W169	Trailer Extension	1
5	Z12432	Snap Lock Pin, 3/8" x 2-1/2"	10
6	Z71515	Hex Bolt, 1/2NC x 1-1/2"	6
7	Z72251	Hex Lock Nut, 1/2NC	6
8	Z91328	27x10.5-15 (TL) 8PR Multi-Trac 5on4-1/2"	4
9	Z91317	ST705/75R14 I RC Radial Trail 5on4-1/2"	4

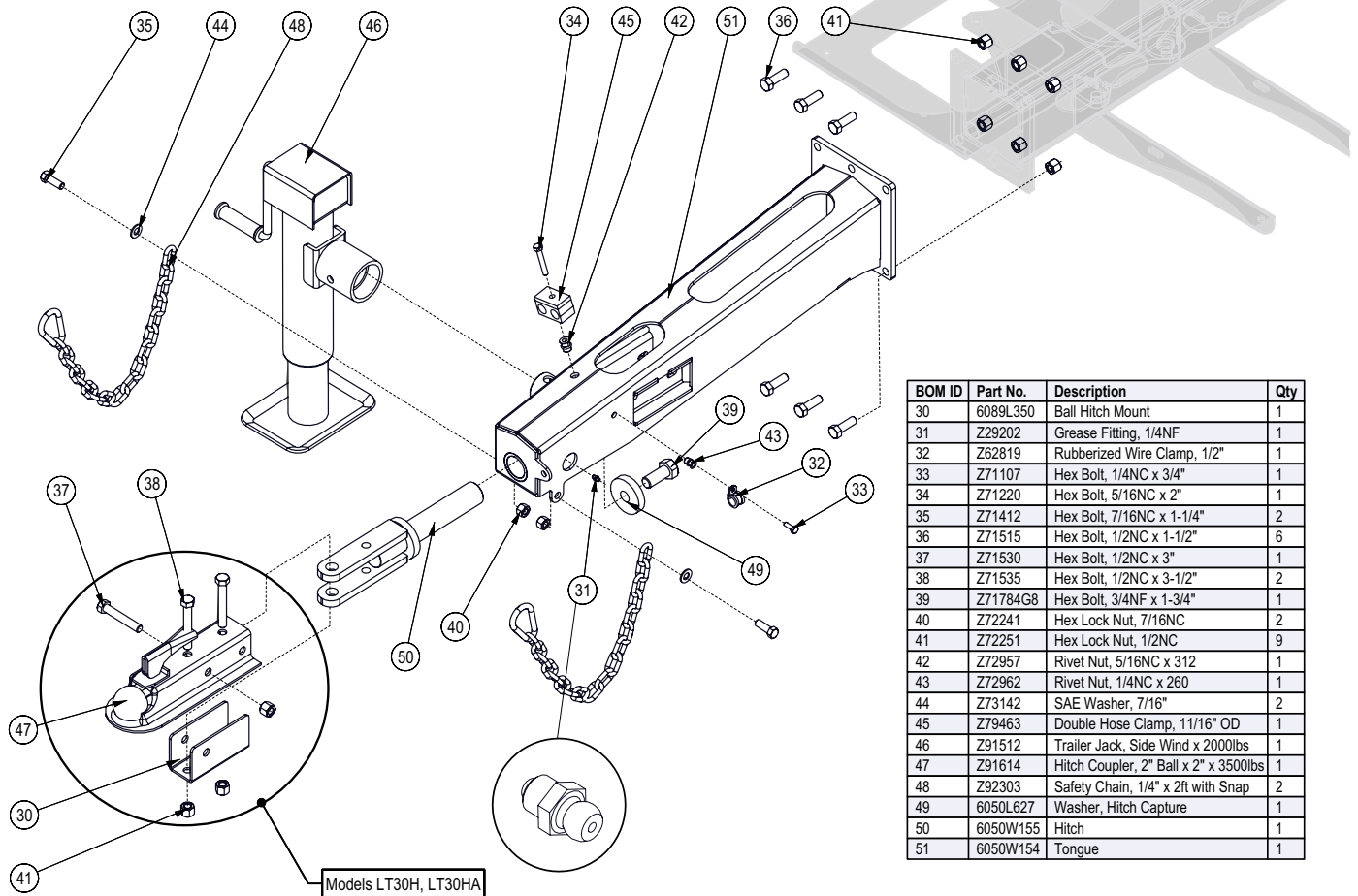
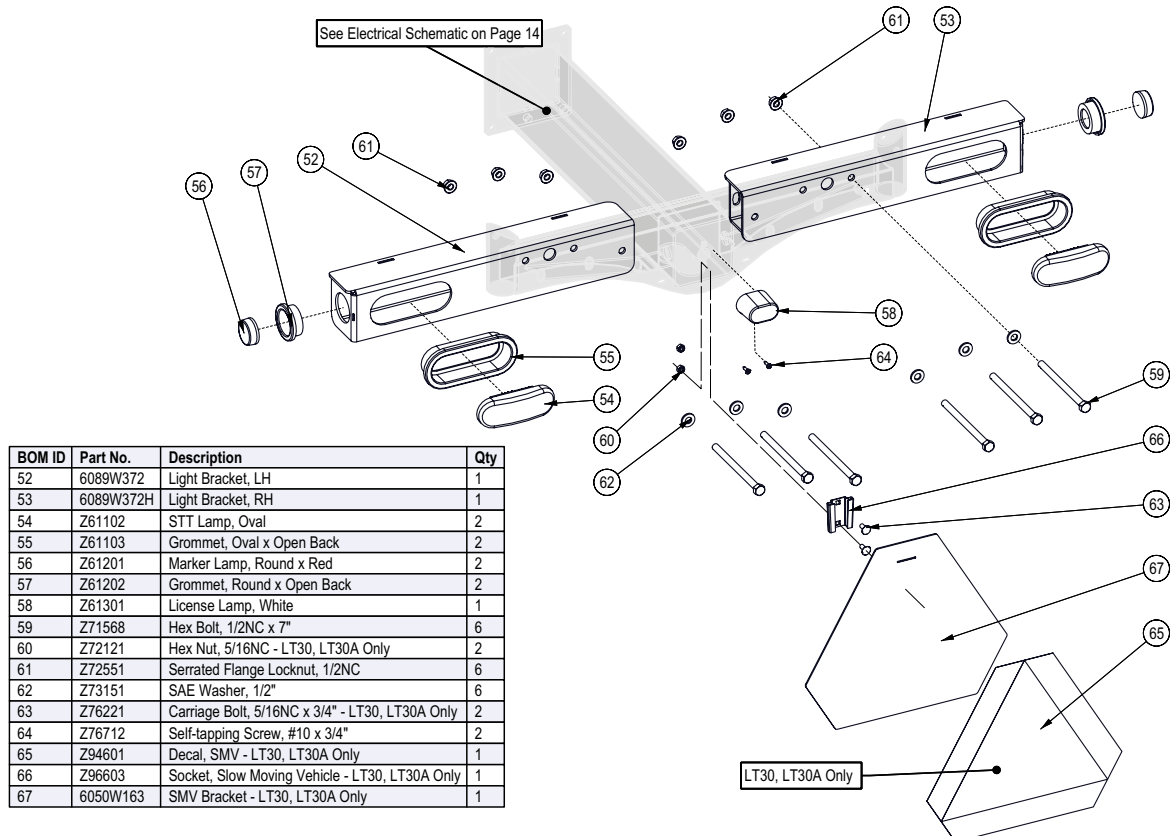
Axle Ass'y

BOM ID	Part No.	Description	Qty
12	6050W166	Axle	1
13	6050W151	Axle Capture	1
14	6050W157	Pin, Axle Main	2
15	6083W330	Axle, RH Rocker	1
16	6083W330H	Axle, LH Rocker	1
17	Z91207	Idle Hub Assy, 1750lbs x 5on4-1/2"	4
18	Z72292G8	Hex Lock Nut, 1-14NF G8	2
19	Z29201	Grease Fitting, MP02	2
20	Z29202	Grease Fitting, 1/4NF	2
21	Z71620	Hex Bolt, 5/8NC x 2"	4
22	Z71775	Hex Bolt, 3/4NC x 7-1/2"	1
23	Z72261	Hex Lock Nut, 5/8NC	4
24	Z72271	Hex Lock Nut, 3/4NC	1
25	Z51162	Tee, FP x FP x MP 040404	1
26	Z51314	Straight, MP x FPX 0404	1
27	Z91705	Brake Drum, 10" x 1750lbs 5on4-1/2" Complete Assembly	2
28	Z91707	Hydraulic Brake 10 x 2-1/4 x 1750lbs RH	1
29	Z91706	Hydraulic Brake 10 x 2-1/4 x 1750lbs LH	1



Models: LT30A, LT30HA, LT30H



Tongue Ass'y**Tail Ass'y****Model LT30HA & LT30H**

Hub Ass'y

Model LT30

BOM ID	Part No.	Description	Qty
70	Z12321	Cotter Pin, 3/16" x 1-3/4"	1
71	Z23202	Roller Bearing, L44649 L44610	1
72	Z23205	Roller Bearing, L68149 L68111	1
73	Z28202	Single Lip Seal, 1-3/4"	1
74	Z72691	Castle Nut, 1NF x 9/16" Thick	1
75	Z72931	Lug Nut, 1/2NF	5
76	Z91208	Hub, 1750lbs x 5on4-1/2"	1
77	Z91801	Dust Cap, 1.98 Bore	1

Brake Drum Ass'y

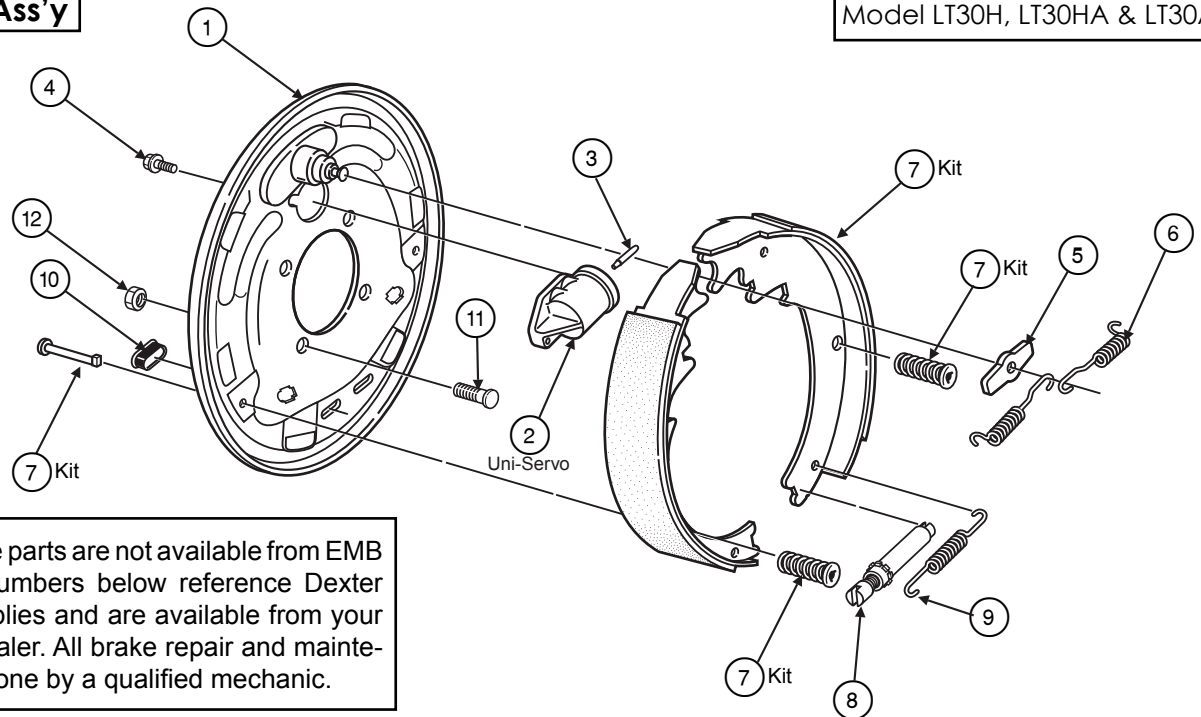
Model LT30H, LT30HA & LT30A

See Brake Ass'y

BOM ID	Part No.	Description	Qty
78	Z12321	Cotter Pin, 3/16" x 1-3/4"	1
79	Z23202	Roller Bearing, L44649 L44610	1
80	Z23205	Roller Bearing, L68149 L68111	1
81	Z28202	Single Lip Seal, 1-3/4"	1
82	Z72691	Castle Nut, 1NF x 9/16" Thick	1
83	Z72931	Lug Nut, 1/2NF	5
84	Z91708	Brake Drum, 10" x 1750lbs 5on4-1/2" Drum Only	1
85	Z91801	Dust Cap, 1.98 Bore	1

Hydraulic Brake Ass'y

Model LT30H, LT30HA & LT30A

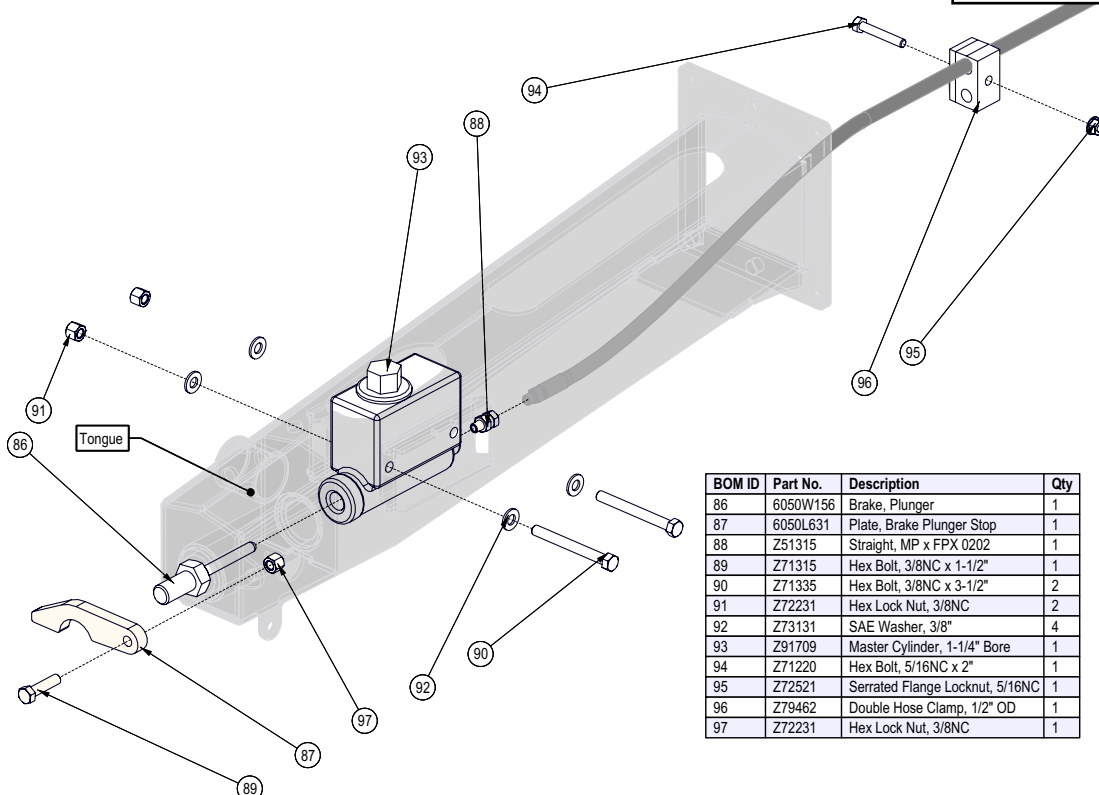


Please note: brake parts are not available from EMB Mfg. Brake part numbers below reference Dexter Axle brake assemblies and are available from your local auto parts dealer. All brake repair and maintenance should be done by a qualified mechanic.

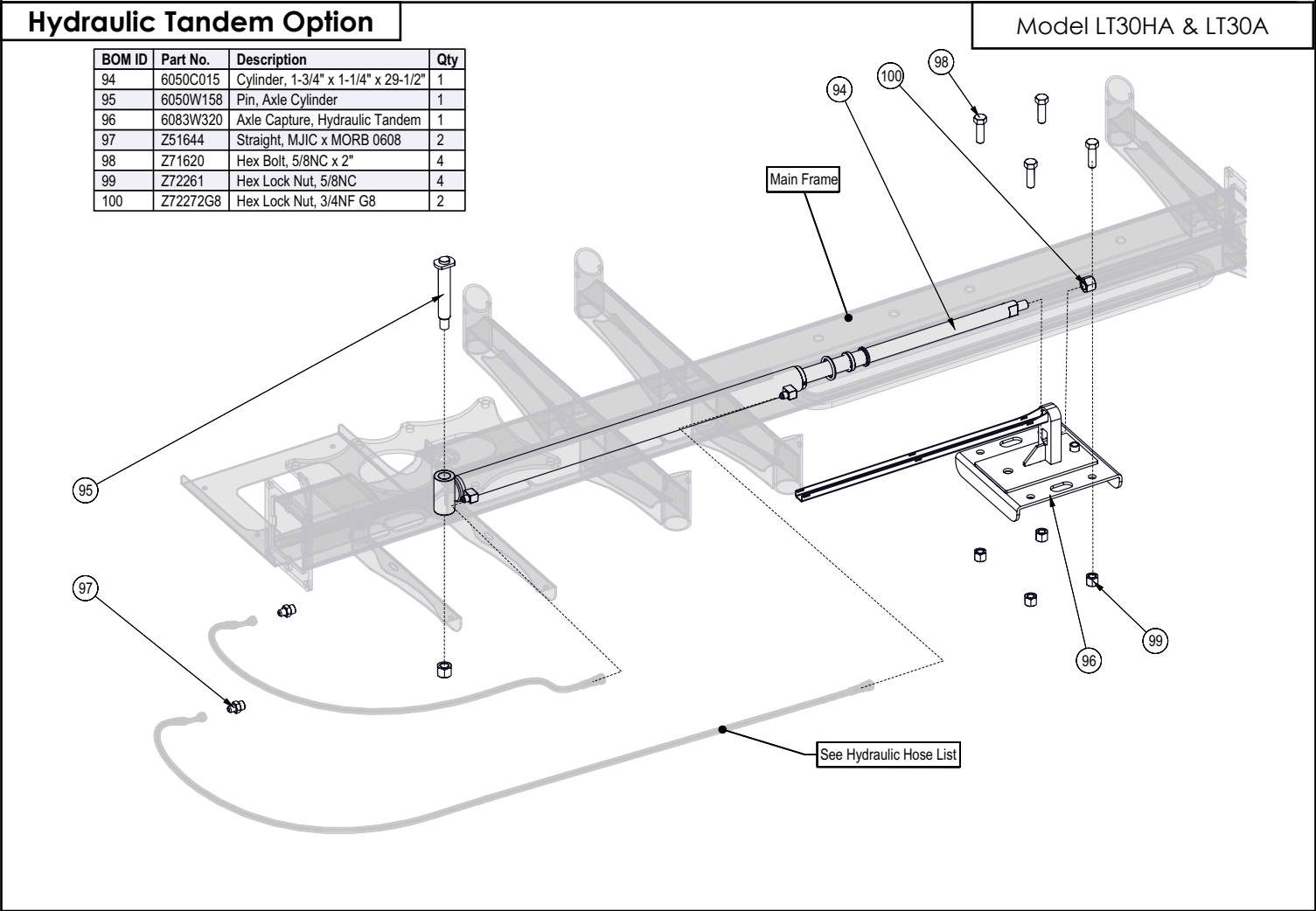
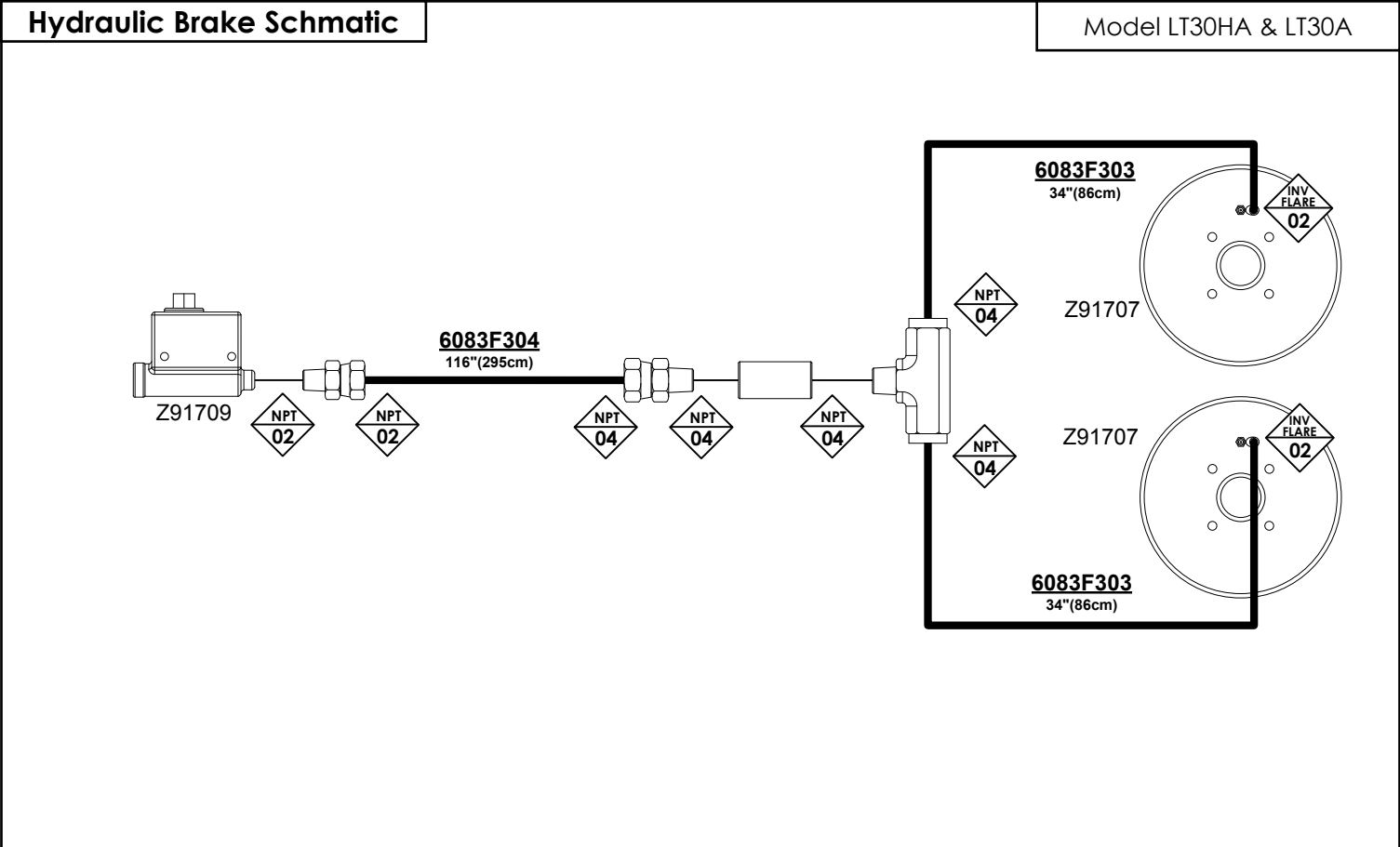
BOM ID	Part No.	Description	Qty	BOM ID	Part No.	Description	Qty
	K23-312-00	LH Complete Brake Assembly-Uni Servo	1	7	K71-267-00	Shoe & Lining Kit Contains:	1
	K23-313-00	RH Complete Brake Assembly-Uni Servo (shown)	1		#040-210-00	Primary Shoe & Lining	1
1	036-094-03	Backing Plate Assembly (includes item #11)	1		#040-211-00	Secondary Shoe & Lining	1
2	054-064-00	LH Brake Cylinder Uni-Servo	1		#046-077-00	Shoe Hold Down Spring & Cup	2
2	054-065-00	RH Brake Cylinder Uni-Servo	1		#049-002-00	Shoe Hold Down Pin #8	2
3	054-060-00	Cylinder Push Rod	1	8	043-004-00	Adjuster Assembly	1
4	087-001-00	Sems (screw & washer assembly)	2	9	046-018-00	Adjusting Screw Spring	1
5	005-113-00	Anchor Post Washer	1	10	046-007-00	Adjuster Slot Plug	1
6	046-009-00	Retractor Spring	2	11	007-041-00	Brake Mounting Bolt - Press-in	4
				12	Z72242	Hex Lock Nut, 7/16NF	4
				not shown	054-089-00	Bleeder Screw (included with item #2)	1

Hydraulic Surge Brake Ass'y

Model LT30H, LT30HA & LT30A

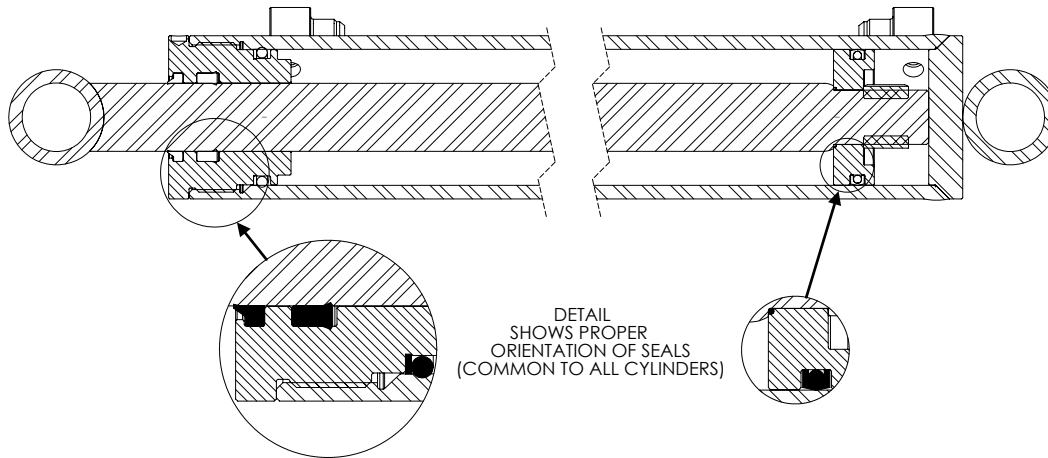


BOM ID	Part No.	Description	Qty
86	6050W156	Brake, Plunger	1
87	6050L631	Plate, Brake Plunger Stop	1
88	Z51315	Straight, MP x FPX 0202	1
89	Z71315	Hex Bolt, 3/8NC x 1-1/2"	1
90	Z71335	Hex Bolt, 3/8NC x 3-1/2"	2
91	Z72231	Hex Lock Nut, 3/8NC	2
92	Z73131	SAE Washer, 3/8"	4
93	Z91709	Master Cylinder, 1-1/4" Bore	1
94	Z71220	Hex Bolt, 5/16NC x 2"	1
95	Z72521	Serrated Flange Locknut, 5/16NC	1
96	Z79462	Double Hose Clamp, 1/2" OD	1
97	Z72231	Hex Lock Nut, 3/8NC	1



Cylinder Seal Installation

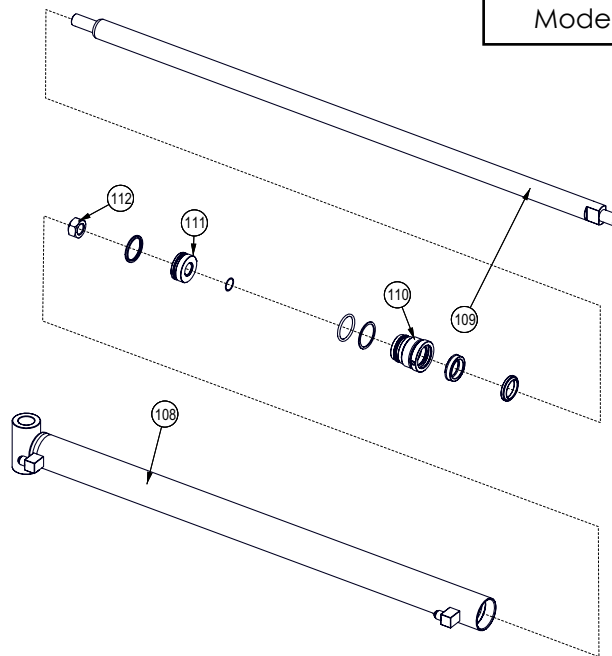
Model LT30HA & LT30A

**Hydraulic Tandem Cylinder**

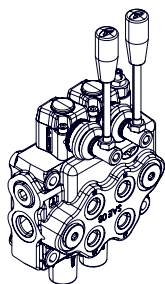
Model LT30HA & LT30A

Seal Kit: SLK-2012

BOM ID	Part No.	Description	Qty
108	6050C0154	Barrel, 2" Bore	1
109	6050C0152	Rod, 1-1/4x3/4	1
110	G175-125S	Gland, 1-3/4" x 1-1/4"	1
111	P750-175SP	Piston, 1-3/4" Bore	1
112	Z72275	Hex Top-lock Nut, 3/4NC	1

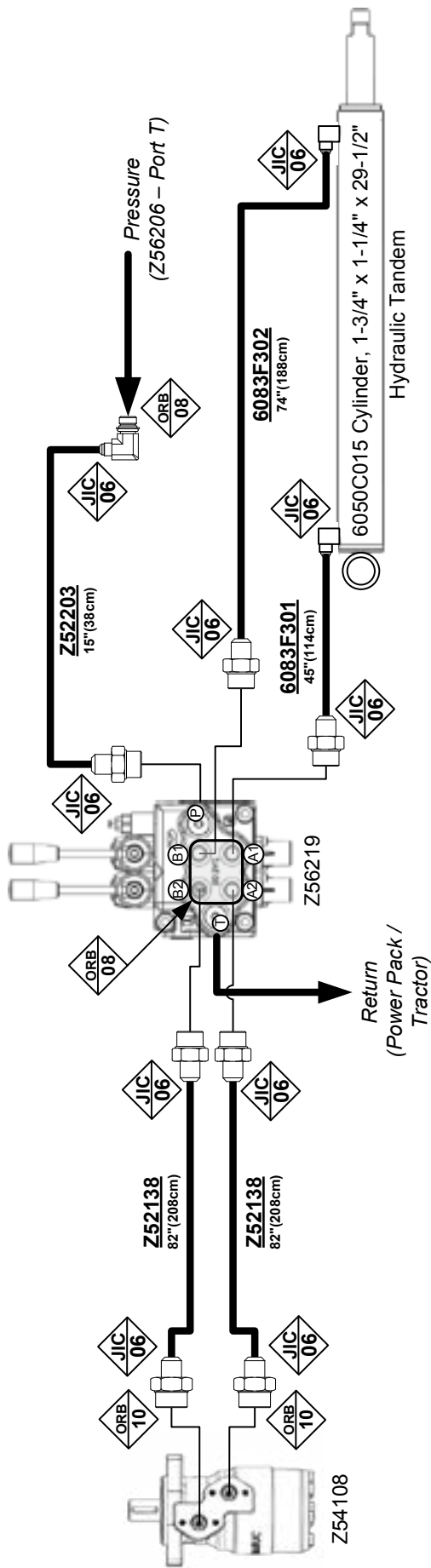
**Hydraulic Hose List**

Part Number	Description	Qty	Where Used
6083F301	1/4" Hose, FJIC06 x 90FJIC06 x 45"	1	LT30A, LT30HA
6083F302	1/4" Hose, FJIC06 x 90FJIC06 x 74"	1	LT30A, LT30HA
6083F303	1/4" Hose, MP04 x 45 Male Inverted Flare 02 x 34"	2	LT30A, LXT30H, LT30HA
6083F304	1/4" Hose, MP04 x MP02 x 116"	1	LT30A, LXT30H, LT30HA
Z52260	3/8" Hose, FJIC06 x MP08 x 48"	2	L301 Power Pack
Z52347	1/2" Hose, MP08 x MP08 x 30"	1	L301 Power Pack

Seal Kit: Z56219 2 Spool Valve**Seal Kit: SK SD5/2**

Model LT30HA & LT30A

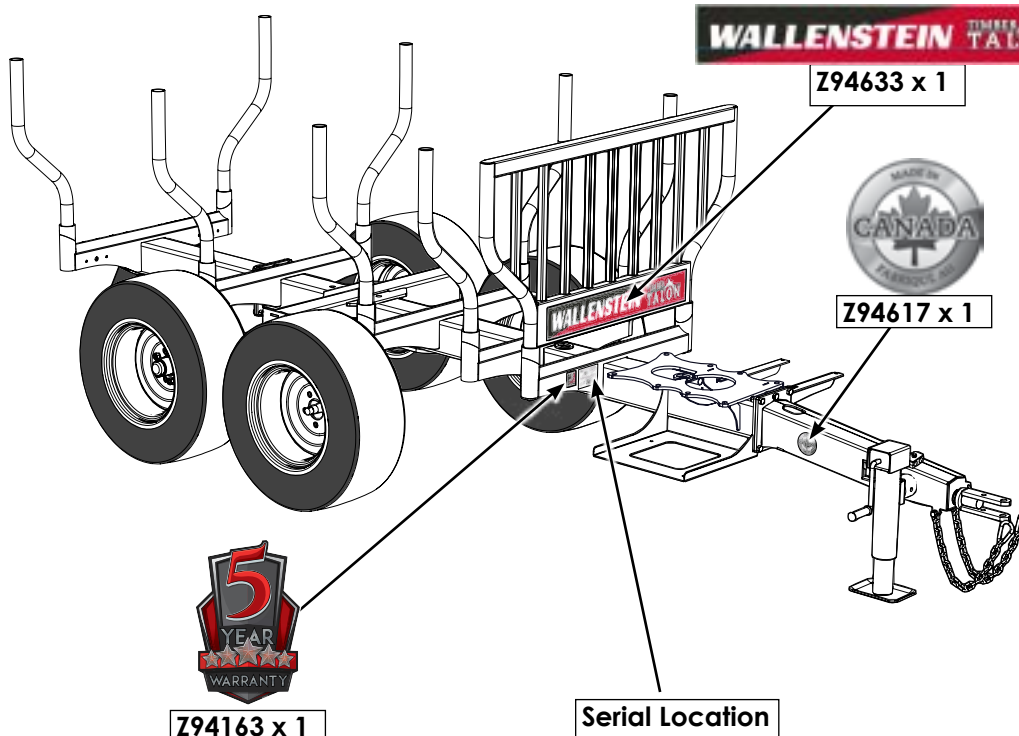
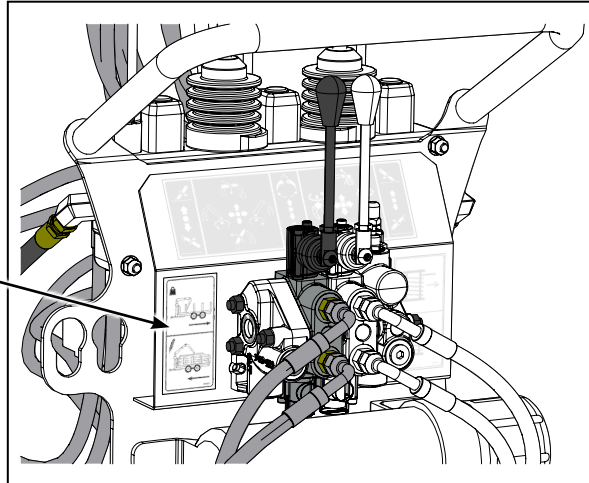
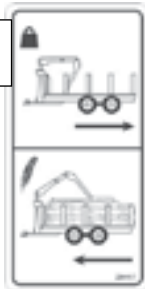
Hydraulic Tandem Schematic



Labels

Z94117 x 1
LT30A - LT30HA

*Available only on LX95
equipped trailers



Z94163 x 1

Serial Location



**Timber Talon Log
Highway Trailer:
LT30-H, HT30-HA**

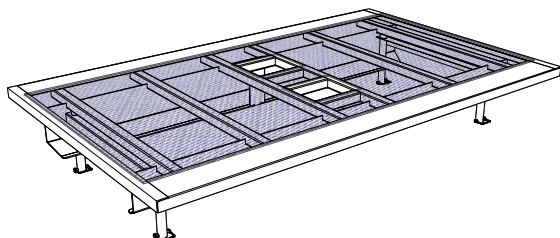
or



**Timber Talon Log
Off road Trailer:
LT30, LT30-A**

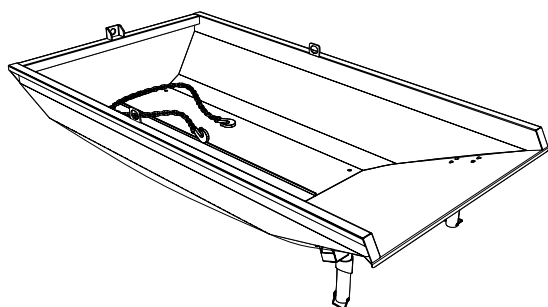
Accessories

Call your dealer for pricing and availability



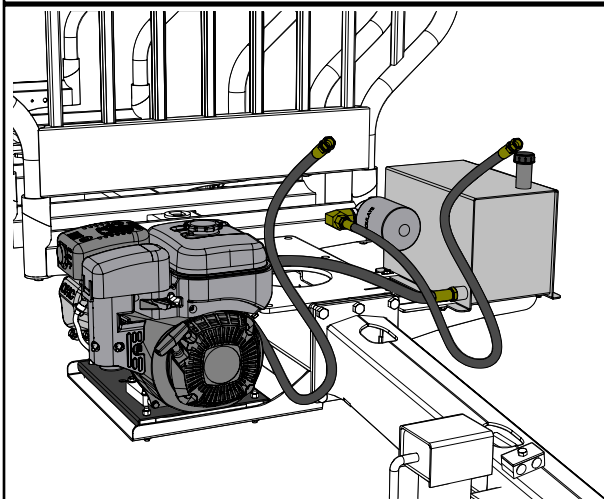
#L330 LT30 Expanded Metal Flat bed

Transporting material and equipment made easy. Simply drop on this flat bed and you're set to go! **LT30 trailer L330** has a 274 cm x 152 cm (9.0' x 5.0') cargo bed.



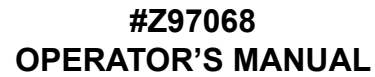
#L310 LT30 Dump Box

Load, transport and easily dump your loads, made for use with the back hoe kit. **The L310** holds 0.7 cubic meters (25 cu.ft). Each dump box comes complete with a 1.8 meter (6 foot) chain used for dumping.



#L301 LX95 Power Pack

Independently power your LX grapple: the **L301 for LX95** features a 6HP Subaru engine. Power packs include hydraulic pump and 17.5 litre (4.6 us gal) reservoir tank.



Available as a download at
www.wallensteinequipment.com