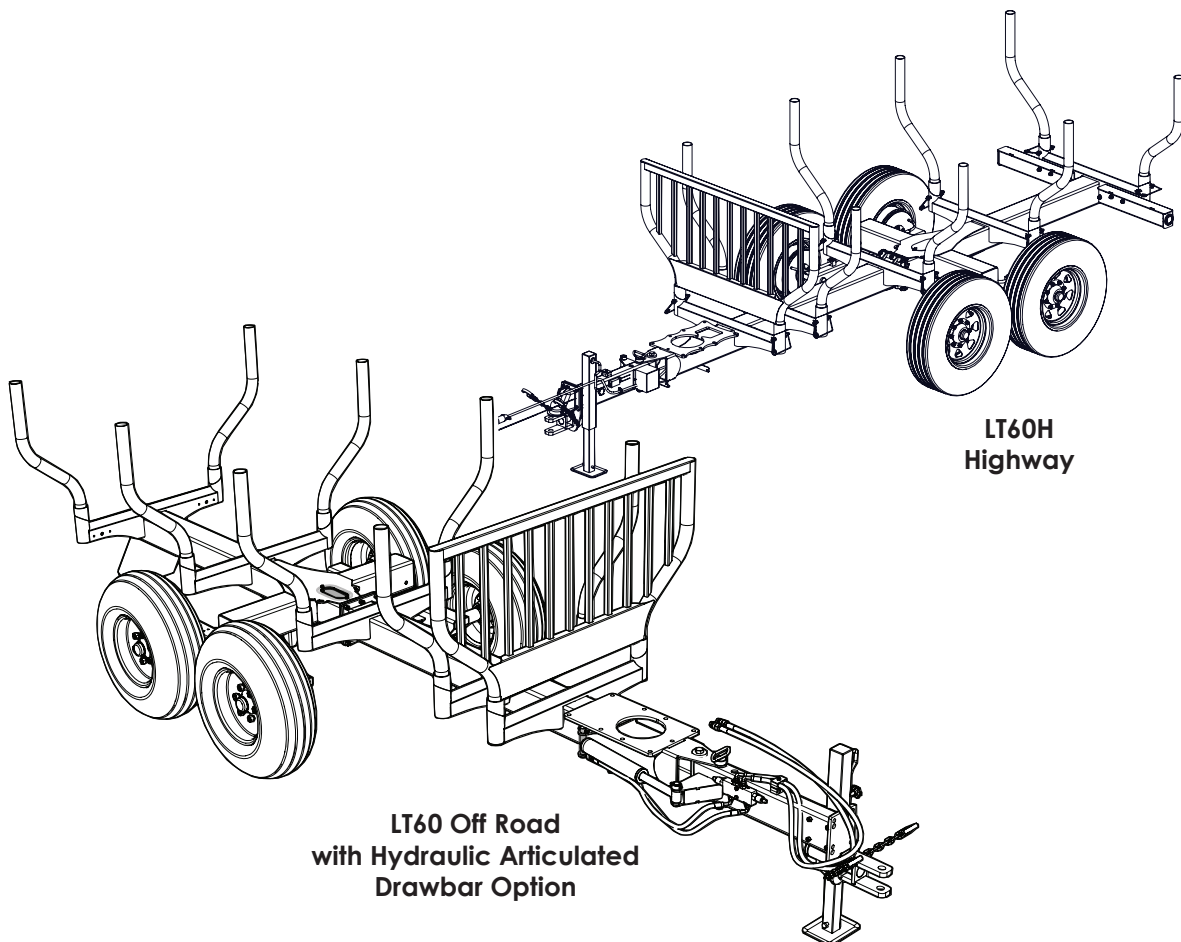




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LT60 Timber Talon Log Trailer Parts Manual

LT60H starting with S/N's 2E9US1119FS060052 and on
LT60 starting with S/N 60T20 and on



Refer to the operators
manual for safe
operation and
maintenance

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.

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.

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

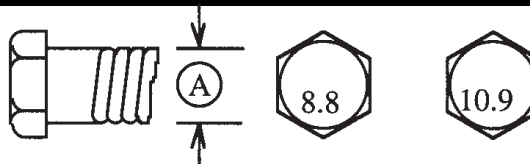
SAE-2

SAE-5

SAE-8

**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



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.

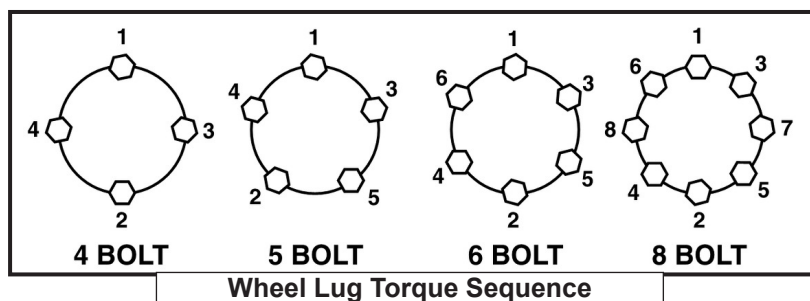
Wheel lugs should be torqued before first road use and after each wheel removal. Check and re torque after the first 16Km (10 miles), 40Km (25 miles), and again at 80Km (50 miles). Check periodically thereafter.

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



LX115 / LT60 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.

LX115 / LT60 Timber Talon Comparison Chart		Boom Mounting Combination		Three Point Hitch Trailer / Bunk Posts Dual Speed Winch Highway Kit			
Grapple Boom		LX115					
Grapple Boom Off Road Trailer		LX115	LT60		✓		
Grapple Boom Trailer - Highway Kit		LX115	LT60H		✓		✓
Grapple Boom 3 Point Hitch Kit		LX115	L400	✓			
W i n c h M o d e l s	Grapple Boom with Winch	LX115W				✓	
	Grapple Boom with Winch Off Road Trailer	LX115W	LT60		✓	✓	
	Grapple Boom with Winch Trailer - Highway Kit	LX115W	LT60H		✓	✓	✓
	Grapple Boom with Winch 3 Point Hitch Kit	LX115W	L400	✓		✓	

Main Frame Ass'y

Model: LT60

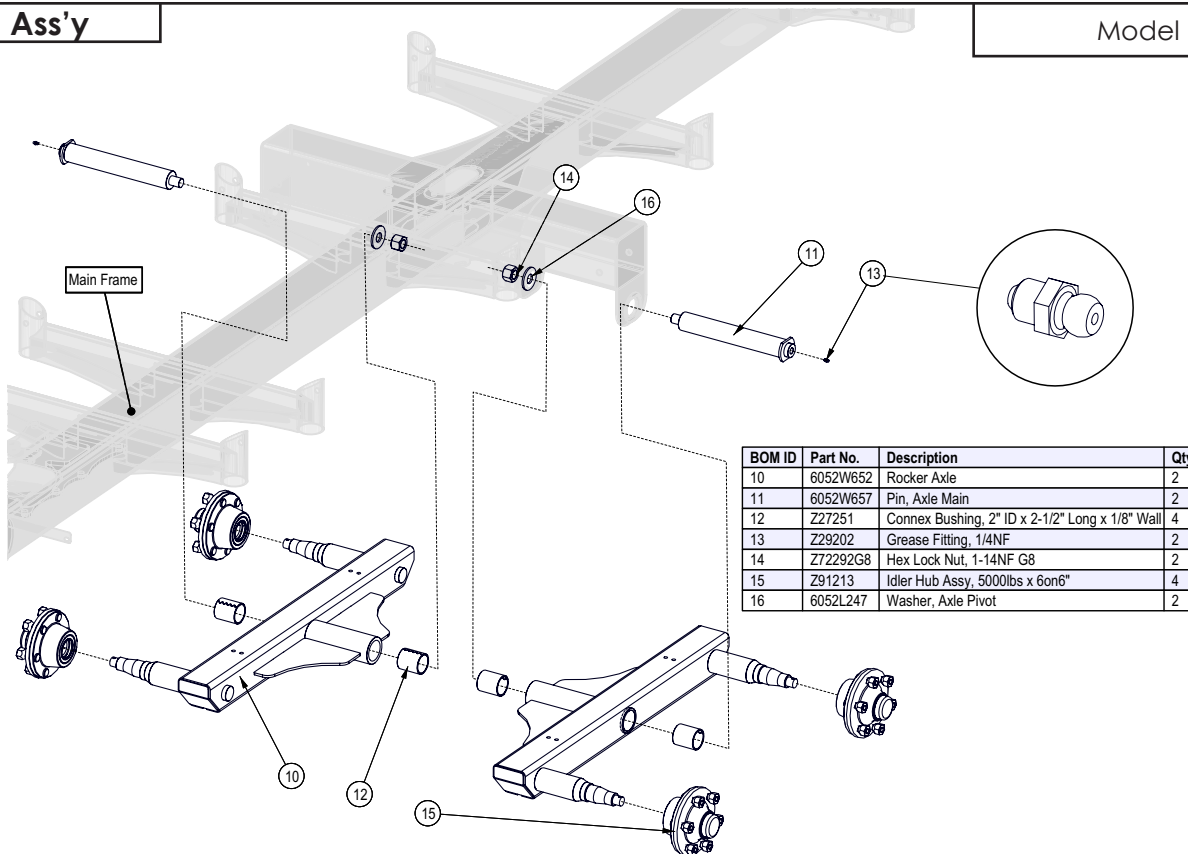
Model LT60H

Rocker Axle

BOM ID	Part No.	Description	Qty
1	6052W669	Main Frame	1
2	6052W663	Weldment, Grill	1
3	6052W664	Bunk Post	8
4	6052L477	Plate, Access Cover	2
5	Z72957	Rivet Nut, 5/16NC x 312	4
6	Z12441	Snap Lock Pin, 1/2" x 4-1/2"	10
7	Z71207	Hex Bolt, 5/16NC x 3/4"	4
8	Z91308	11L-15SL I-1 (TL) 12PR Farm Specialist 60n6"- LT60	4
9	Z91327	ST235/80R16 LRE Radial Trail 80n6-1/2" - LT60H	4

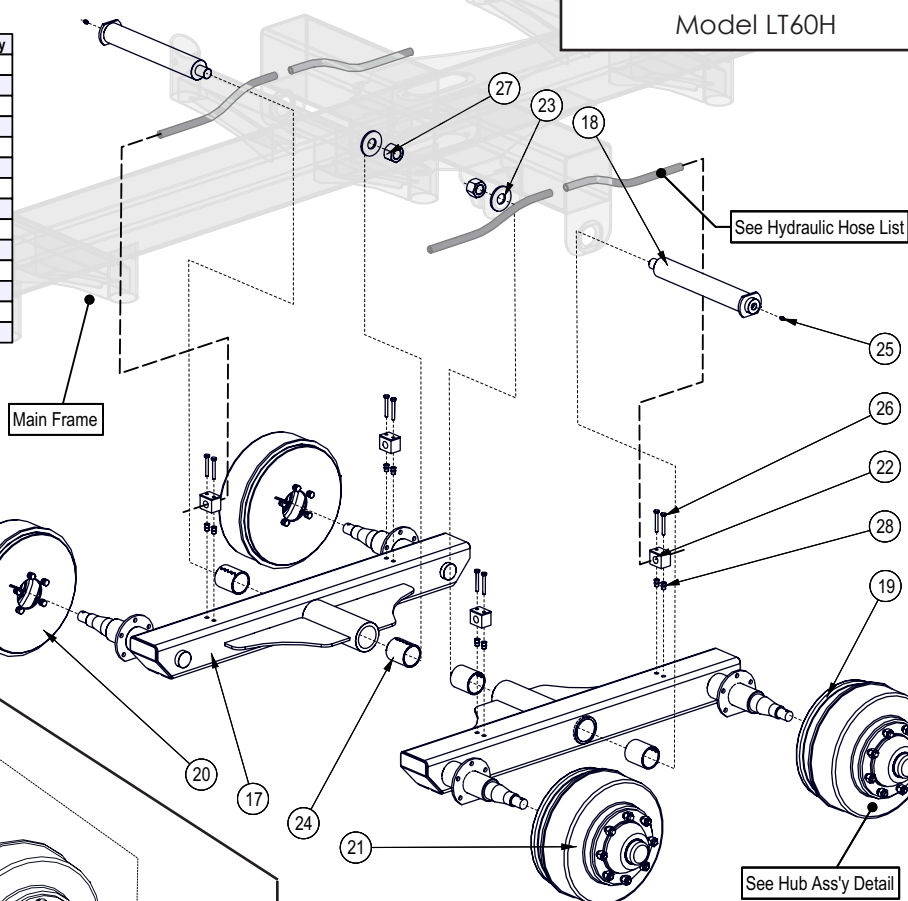
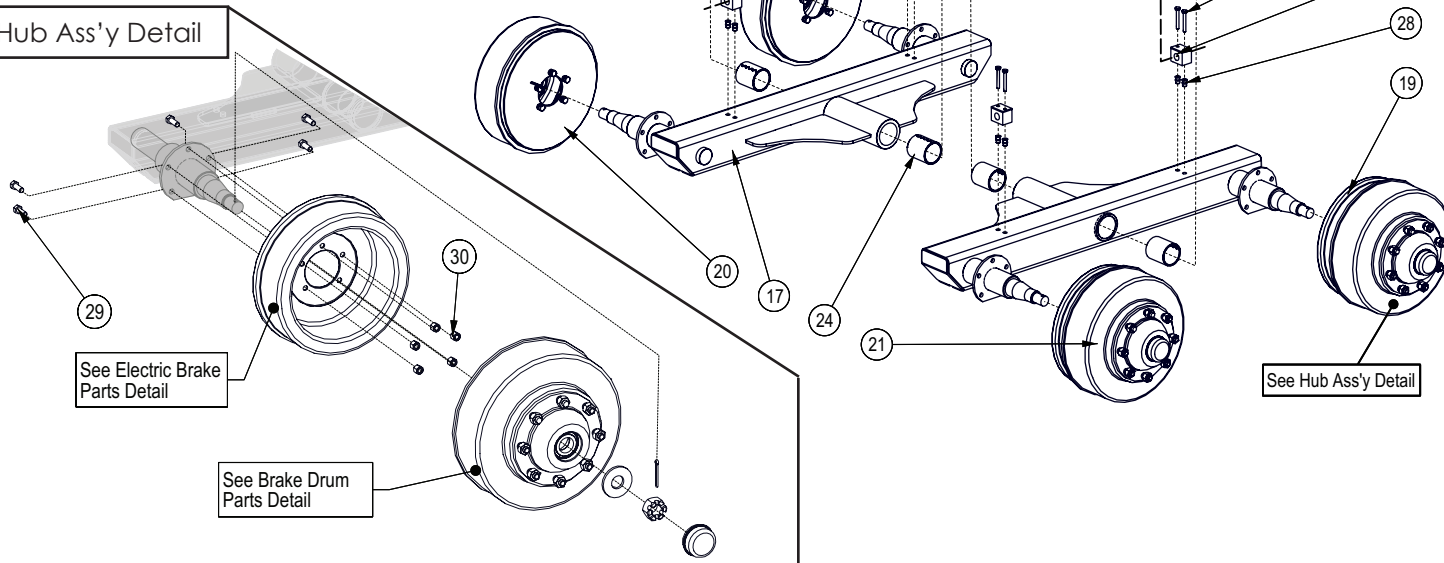
Axle Ass'y

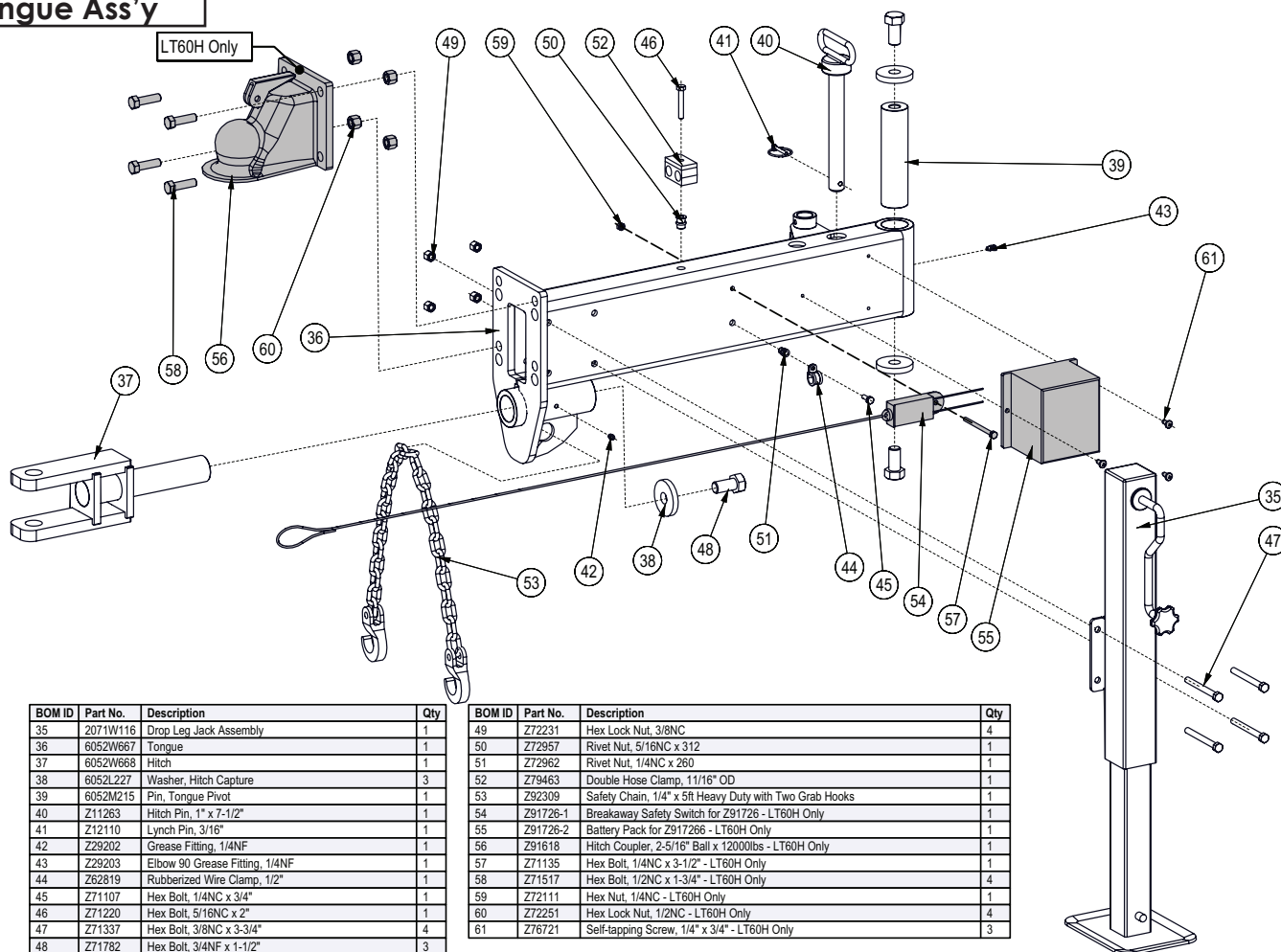
Model LT60



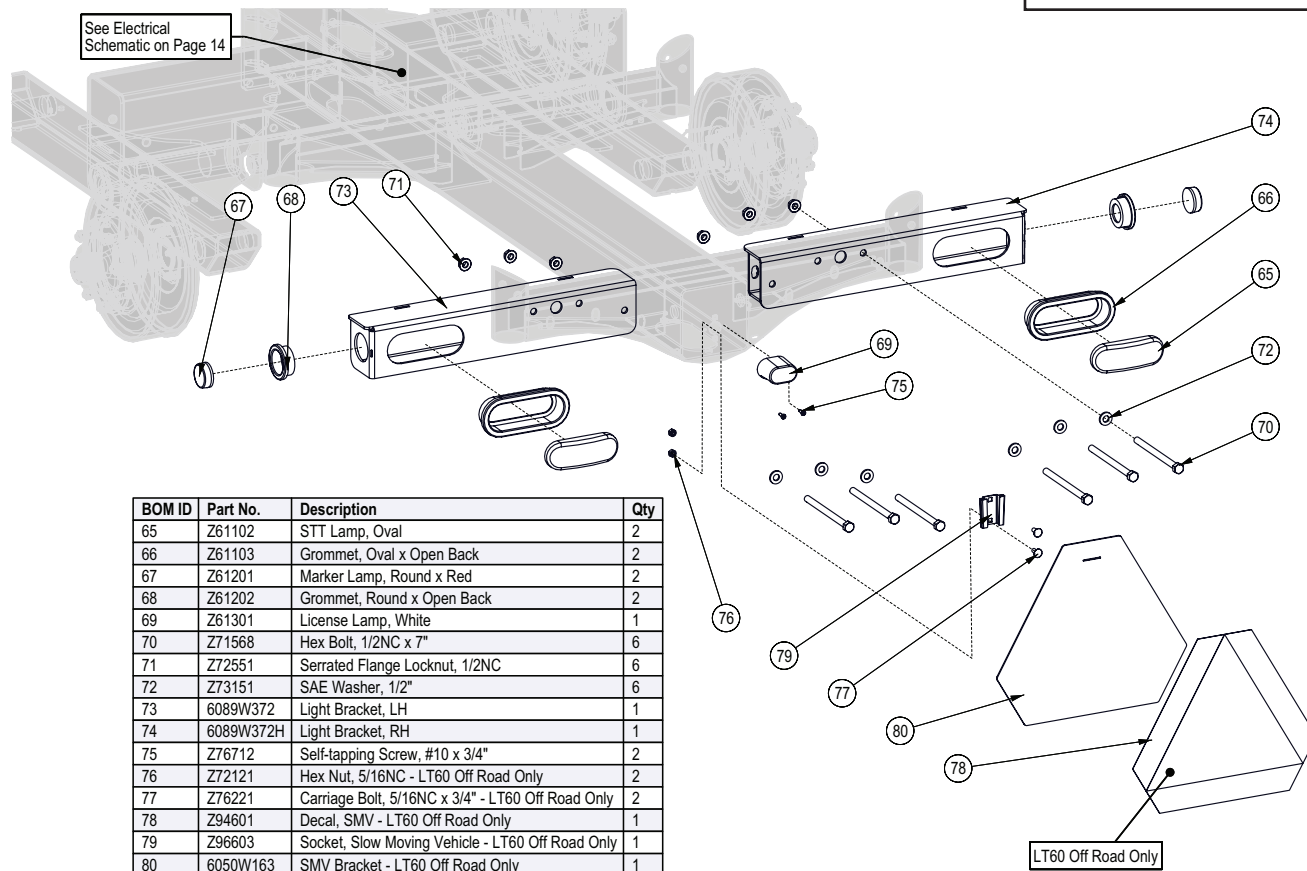
BOM ID	Part No.	Description	Qty
17	6089W370	Highway Rocker Axle	2
18	6052W657	Pin, Axle Main	2
19	Z91702	Electric Brake, 12" x 2" x 3500lbs LH	2
20	Z91712	Electric Brake, 12" x 2" x 3500lbs RH	2
21	Z91711	Brake Drum, 12" x 3500lbs 8on6-1/2" Complete Assembly	4
22	Z79454	Single Hose Clamp, 11/16" OD	4
23	6052L247	Washer, Axle Pivot	2
24	Z27251	Connex Bushing, 2" ID x 2-1/2" Long x 1/8" Wall	4
25	Z29202	Grease Fitting, 1/4NF	2
26	Z71120	Hex Bolt, 1/4NC x 2"	8
27	Z72292G8	Hex Lock Nut, 1-14NF G8	2
28	Z72962	Rivet Nut, 1/4NC x 260	8
29	Z71310	Hex Bolt, 3/8NC x 1"	20
30	Z72231	Hex Lock Nut, 3/8NC	20

Model LT60H

**Hub Ass'y Detail**

Tongue Ass'y**Tail Ass'y**

Model LT60H



Hub Ass'y

Model LT60

BOM ID	Part No.	Description	Qty
82	Z12321	Cotter Pin, 3/16" x 1-3/4"	1
83	Z23208	Roller Bearing, LM603049 LM603011	1
84	Z23209	Roller Bearing, LM48549 LM48510	1
85	Z28207	Single Lip Seal, 2"	1
86	Z72693	Castle Nut, 1NF x 7/8" Thick	1
87	Z72933	Lug Nut, 9/16NF	6
88	Z73291	USS Washer, 1"	1
89	Z91807	Dust Cap, 2.56 Bore	1
90	Z91212	Hub, 5000lbs 6on6"	1

Brake Drum Ass'y

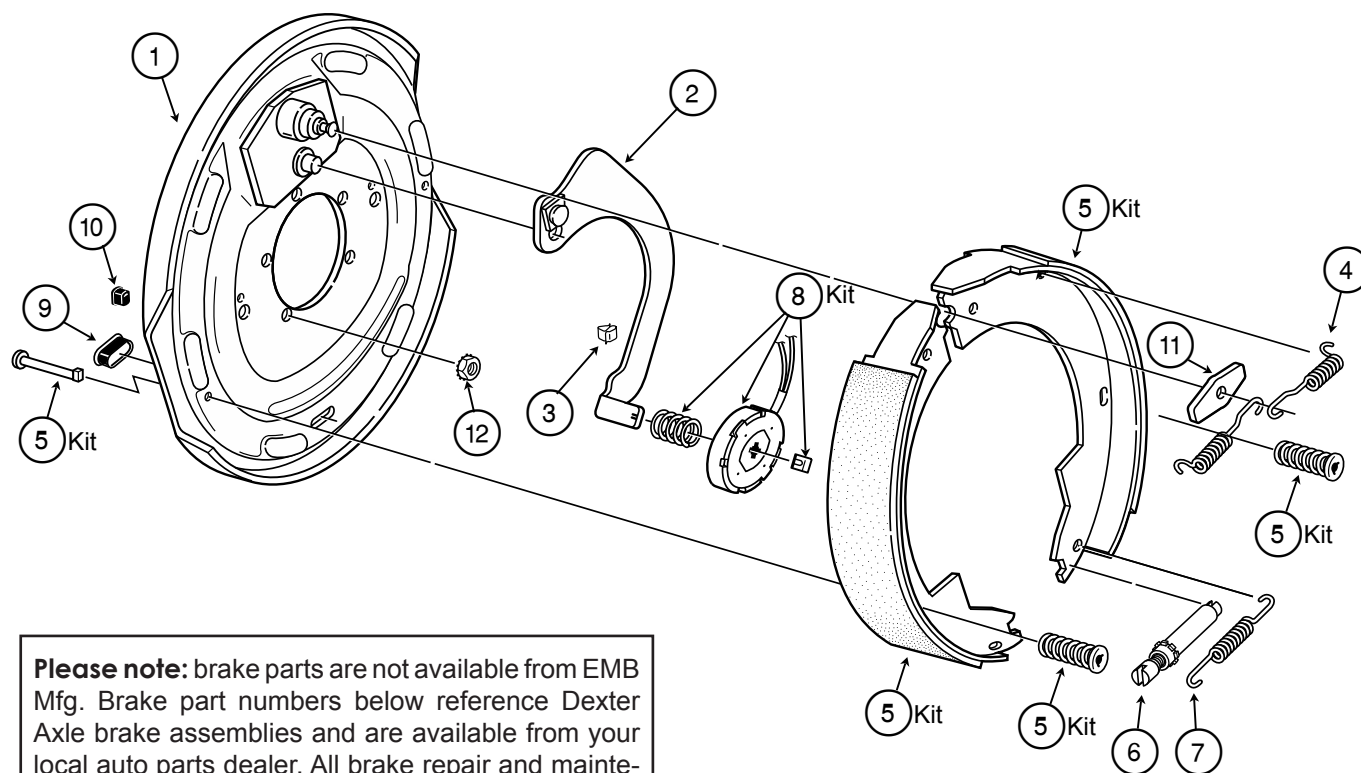
Model LT60H

See Electric Brake Ass'y

BOM ID	Part No.	Description	Qty
91	Z12321	Cotter Pin, 3/16" x 1-3/4"	1
92	Z23206	Roller Bearing, 25580 25520	1
93	Z23207	Roller Bearing, LM67048 LM67010	1
94	Z28203	Single Lip Seal, 2-1/4"	1
95	Z72693	Castle Nut, 1NF x 7/8" Thick	1
96	Z72931	Lug Nut, 1/2NF	8
97	Z73291	USS Washer, 1"	1
98	Z91806	Dust Cap, 2.33 Bore	1
99	Z91710	Brake Drum, 12" x 3500lbs 8on6-1/2" Drum Only	1

Electric Brake Ass'y

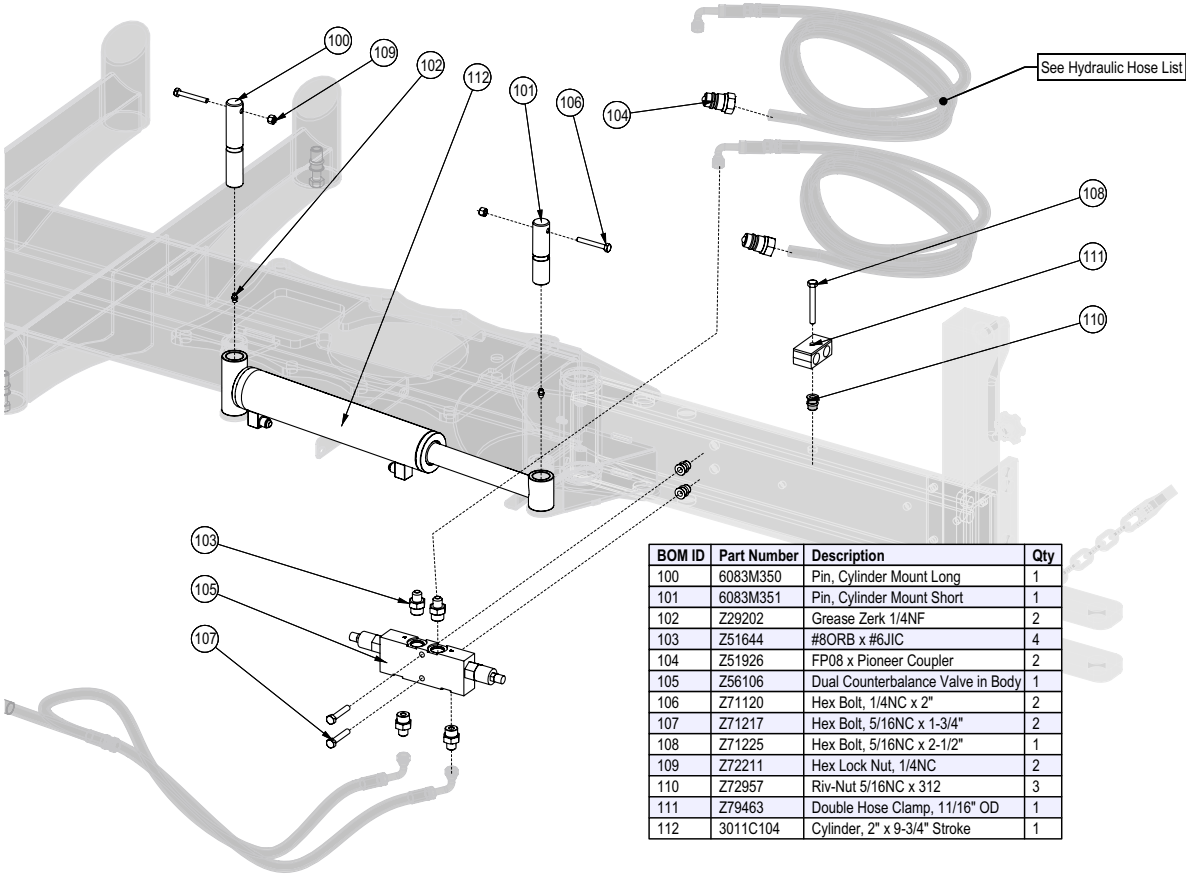
Model LT60H



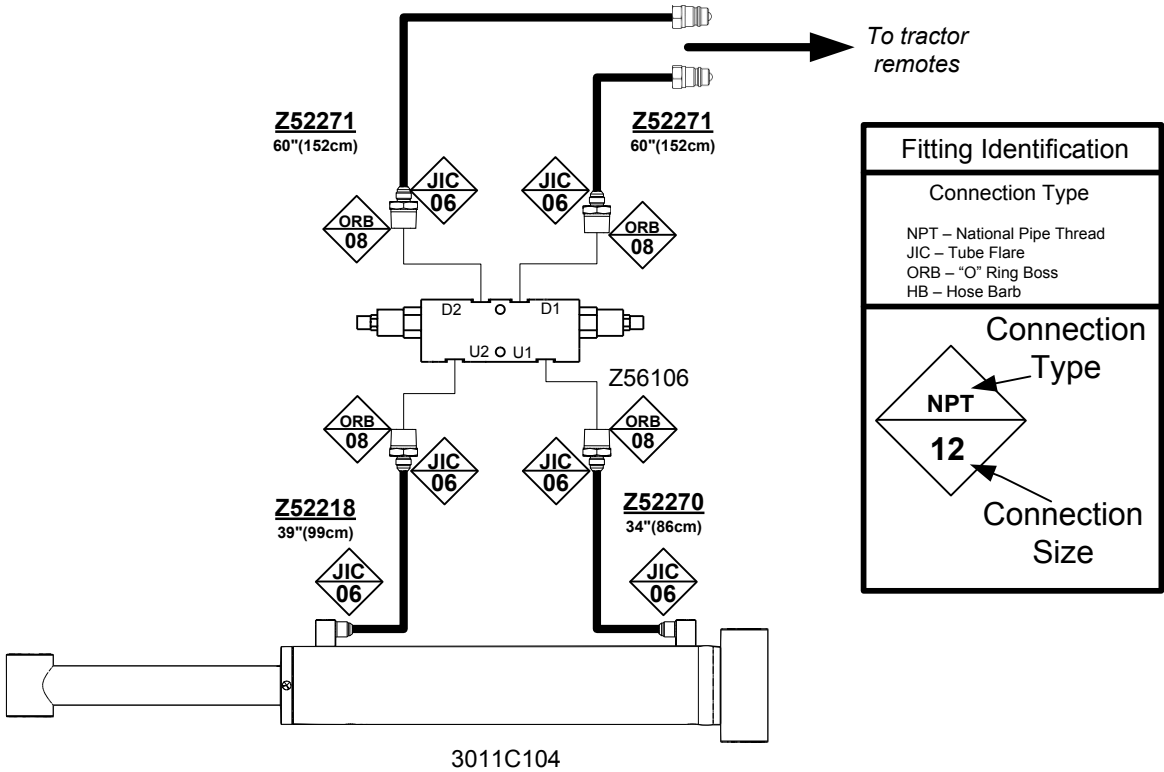
Please note: brake parts are not available from EMB Mfg. Brake part numbers below reference Dexter Axle brake assemblies and are available from your local auto parts dealer. All brake repair and maintenance should be done by a qualified mechanic.

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
	Z91702	LH Complete Brake Assembly	1	10	K71-105-00	Magnet Kit Contains:	1
	Z91712	RH Complete Brake Assembly (shown)	1			Magnet (white wire)	1
1	036-089-10	Backing Plate Assembly	1			Magnet Clip	1
2	047-107-05	LH Actuating Lever Arm Assembly	1			Magnet Spring	1
2	047-108-05	RH Actuating Lever Arm Assembly	1	11	K71-048-00	Shoe & Lining Kit Contains:	1
3	027-005-00	Wire Clip	2			Primary Shoe & Lining	1
4	046-009-00	Retractor Spring	2			Secondary Shoe & Lining	1
5	043-004-00	Adjuster Assembly	1			Shoe Hold Down Pin #2	2
6	046-018-00	Adjusting Screw Spring	1			Shoe Hold Down Spring & Cup	2
7	046-007-00	Adjuster Slot Plug	2				
8	046-016-00	Wire Grommet	1				
9	005-067-00	Anchor Post Washer	1				

Hydraulic Drawbar Option

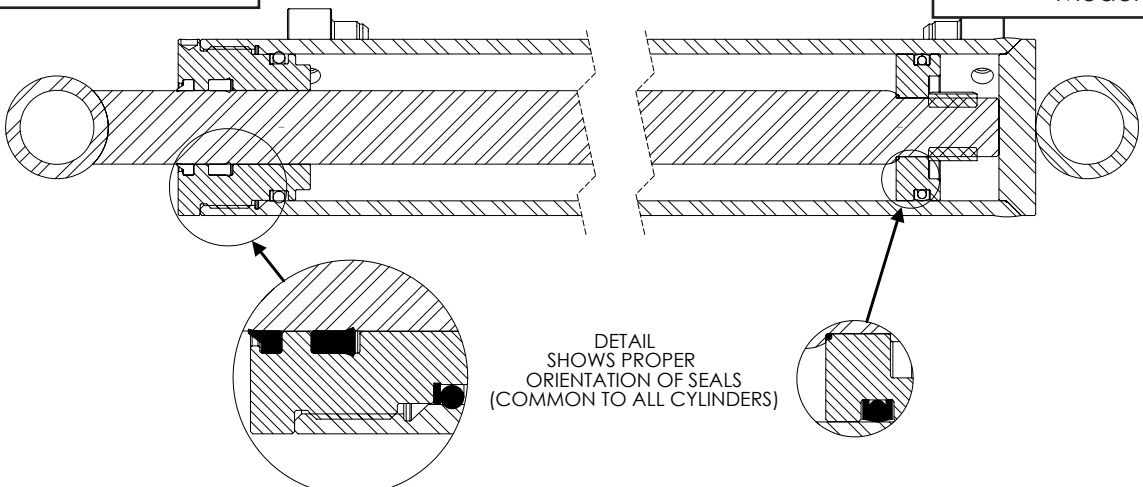


Hydraulic Drawbar Schematic



Cylinder Seal Installation

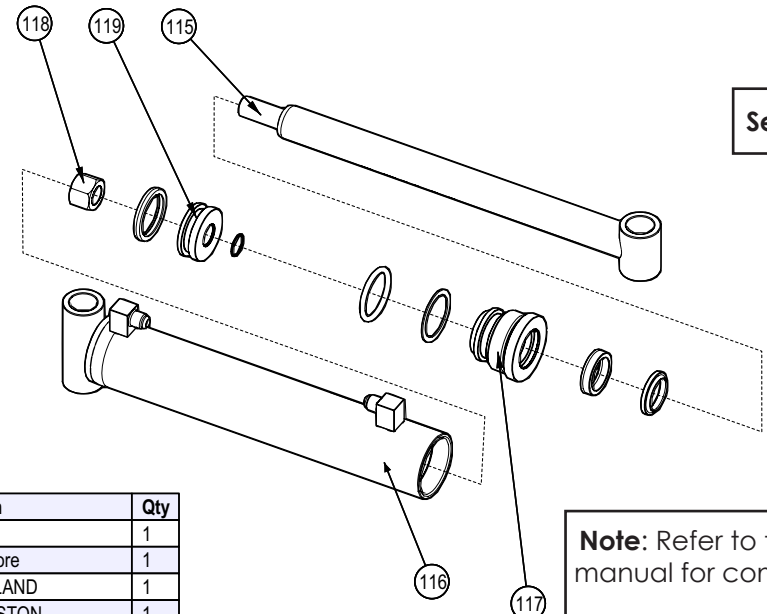
Model LT60



DETAIL
SHOWS PROPER
ORIENTATION OF SEALS
(COMMON TO ALL CYLINDERS)

Hydraulic Drawbar Cylinder

Model LT60



Seal Kit: SLK-2012

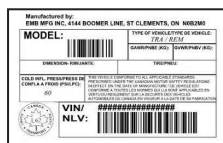
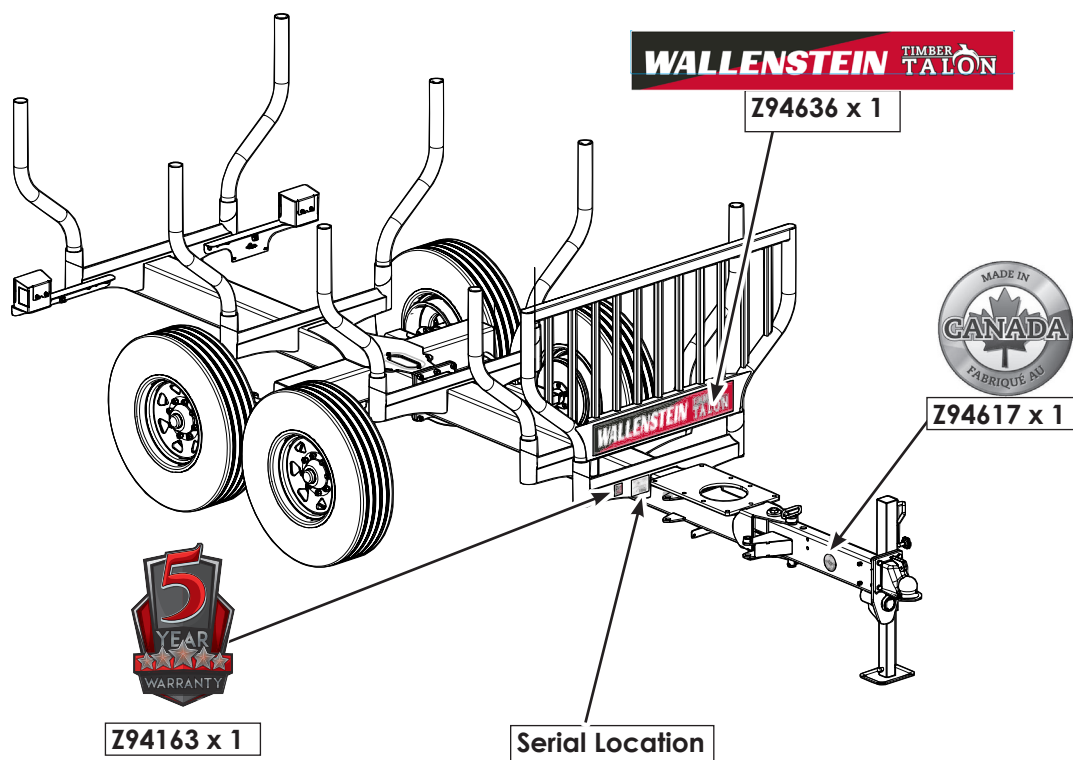
Note: Refer to the LX115 Timber Talon Parts manual for complete hydraulic schematics and seal kits

BOM ID	Description	Description	Qty
115	3011C1043	Rod, 1-1/4	1
116	3011C1044	Barrel, 2" Bore	1
117	G200-125S	2" X 1 1/4" GLAND	1
119	P750-200SP	2" BORE PISTON	1
118	Z72272G8	Hex Lock Nut 3/4NF Grade 8	1

Hydraulic Hose List

Part Number	Description	Qty	Where Used
6089S350	3/8" Hydraulic Hose, 16" LG.	4	LT60H
Z52218	3/8" Hose, FJIC06 x 90FJIC06 x 39"	1	LT60 Hyd Drawbar
Z52270	3/8" Hose, FJIC06 x 90FJIC06 x 34"	1	LT60 Hyd Drawbar
Z52271	3/8" Hose, 90FJIC06 x MP08x 60"	2	LT60 Hyd Drawbar
Z52260	3/8" Hose, FJIC06 x MP08 x 48"	2	L601 Power Pack
Z52347	1/2" Hose, MP08 x MP08 x 30"	1	L601 Power Pack

Labels

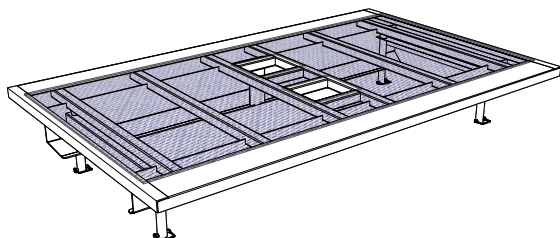


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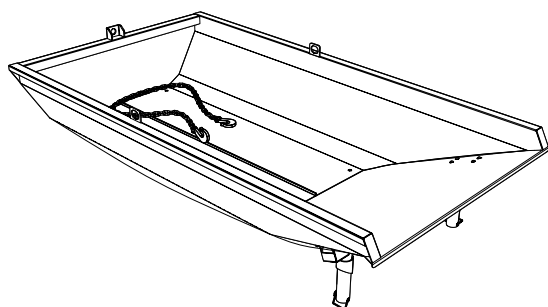


Accessories

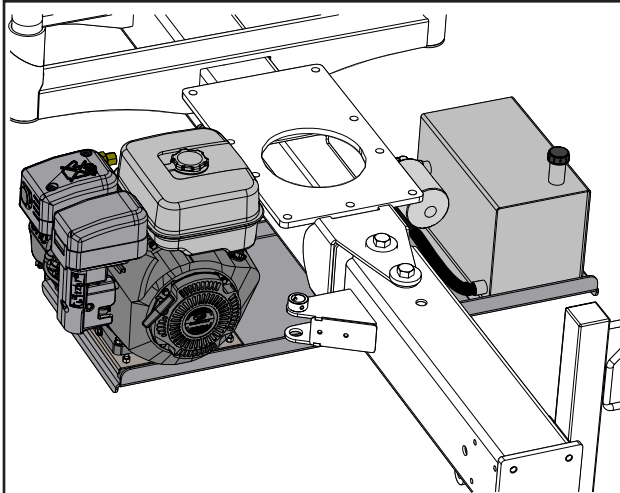
Call your dealer for pricing and availability

**#L630 LT60 EXPANDED METAL FLAT BED**

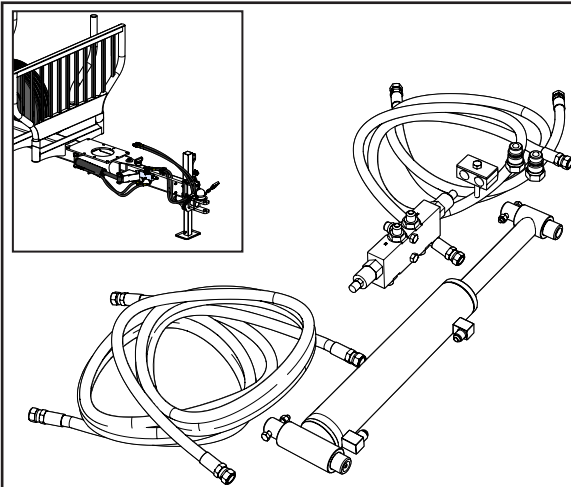
Transporting material and equipment made easy. Simply drop on this flat bed and you're set to go! **LT60 trailer L630** has a 321 cm x 179 cm (10.6' x 5.8') cargo bed.

**#L620 LT60 DUMP BOX**

Load, transport and easily dump your loads, made for use with the back hoe kit. **The L620** holds 1.13 cubic meters (40 cu.ft). Each dump box comes complete with a 1.8 meter (6 foot) chain used for dumping.

**#L601 LX115 POWER PACK**

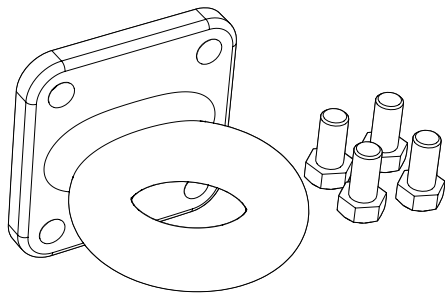
Independently power your LX grapple: the **L601 for LX115** features a 9HP Subaru engine. Power packs include hydraulic pump and 17.5 litre (4.6 us gal) reservoir tank.



#L650 HYDRAULIC ARTICULATED DRAWBAR

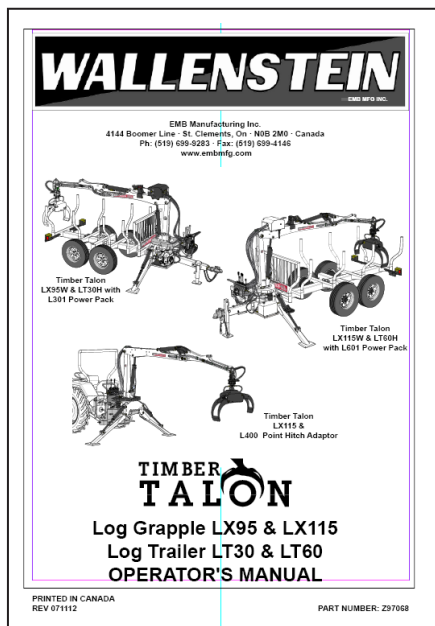
(tractor remotes required)

Tight bush trail corner navigation made easy with this handy hydraulic articulating drawbar. Available for off road use only. It is controlled by your tractors remotes.



#L640 PINTLE HITCH

Pintle hitch accessory to match up to your existing pintle hook.



#Z97068 GENERATOR OPERATOR'S MANUAL

Available as a download at
www.wallensteinequipment.com