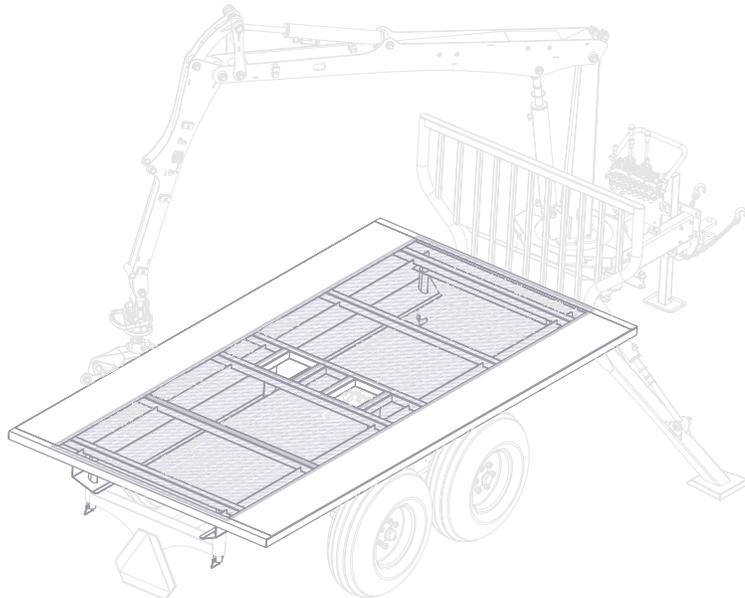


WALLENSTEIN

BY EMB MFG INC.

EMB Manufacturing Inc.
4144 Boomer Line · St. Clements, Ontario · N0B 2M0 · Canada
www.wallensteinequipment.com

TIMBER TALON



L330 & L630 FLAT BED

Accessory Installation Instructions

See inside cover for grapple compatibility chart

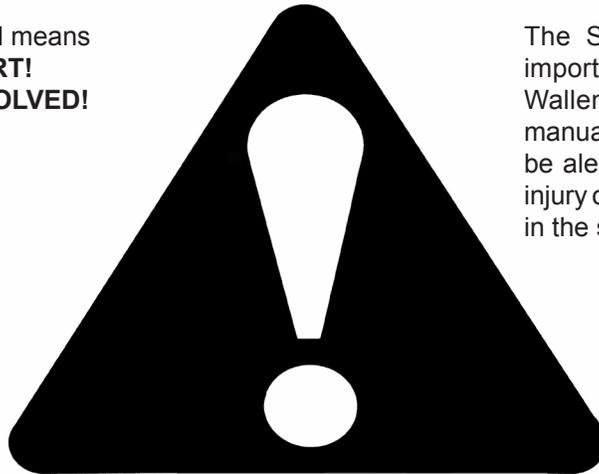


Do not attempt to start or operate the equipment without thoroughly reviewing this manual for safe and proper operation.

**Keep this manual with the
machine at all times**

SAFETY ALERT SYMBOL

This Safety Alert symbol means
ATTENTION! BE ALERT!
YOUR SAFETY IS INVOLVED!



The Safety Alert symbol identifies important safety messages on the Wallenstein Equipment and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

Why is SAFETY important to you?

3 Big Reasons

Accidents Disable and Kill
Accidents Cost
Accidents Can Be Avoided

SIGNAL WORDS:

Note: The use of the signal words **DANGER**, **WARNING**, **CAUTION** and **NOTICE** with the safety messages. The appropriate signal word for each message has been selected using the following guide-lines:

DANGER - Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING - Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION - Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE - Indicates a situation that could result in damage to the machine or other property.

If you have any questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer or EMB Mfg, 4144 Boomer Line, St. Clements, ON, N0B 2M0. Phone (519) 699-9283 or Fax (519) 699-4146.



Warning
Operation Hazard

Review your Grapple and Log Trailer Manual for safe operating and handling procedures before beginning work.



Warning
Handling Hazard

Use caution when handling heavy equipment. Objects may fall and cause crushing injury to hands and feet. Lifting heavy objects may cause back or leg strain injuries.

Grapple Compatibility Chart for FLAT BED L330 & L630

| MODEL | 9.0 x 5.0 ft. | 10.6 x 5.9 ft. |
|---|---------------|----------------|
| | 6089A100 | 6089A120 |
| Wallenstein | L330 | L630 |
| LX95 Series - LT30H & LT30HA, LT30 & LT30A | x | |
| LX115 Series - LT60 & LT60H | | x |

Accessory Installation Instructions

L330 & L630 FLAT BED

 Always wear the appropriate safety gear when installing this kit or working around the machine. This includes but is not limited to:

- Hard hat for protection to the head.
- Safety glasses protection for the eyes.
- Gloves for hand protection.
- Safety shoes with slip resistant soles and steel toes.

The Wallenstein Timber Talon Flat Bed, allows you to convert your timber trailer to haul material and equipment easily. For the **LT30 trailer**, the **L330** has a 9.0' x 5.0' (274 cm x 152 cm) cargo bed. For the **LT60 trailer**, the **L630** has a 10' 6" x 5' 8" (321 cm x 179 cm) cargo bed. Note: Installation and operation for both the L330 & L630 are similar.

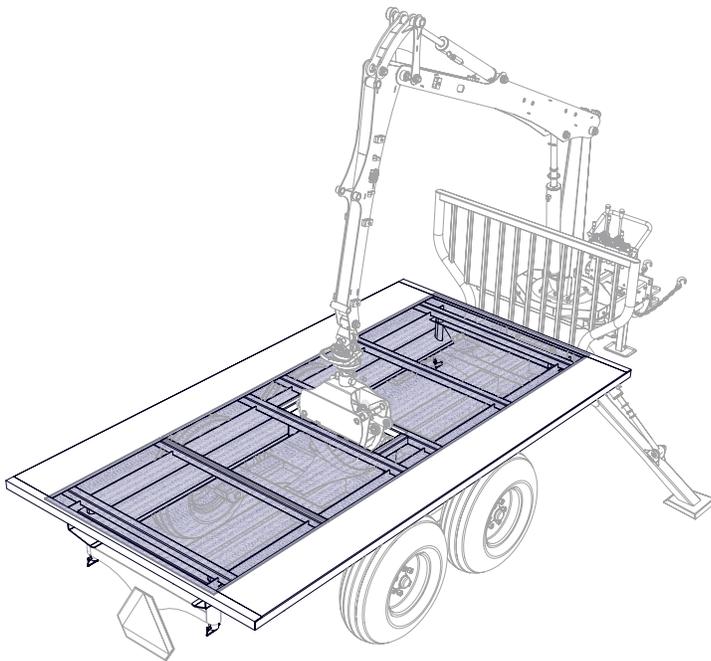
See the chart on page 3 to ensure you have the correct kit for your model grapple & trailer.

This manual features the LX115 Log Grapple with a LT60 Trailer and a L630 Flat Bed installed. Please read this manual thoroughly.

The flat bed must be installed using the LX boom, and the bunk posts will need to be removed from the trailer. Plan a space to keep your bunk posts while using the flat bed and have a container handy to store parts that have been removed.

Note: Installation and operation for both LX95 Series & LX115 Series are similar.

Illustrations show typical assembly. This assembly procedure is one time only. Once assembled, only regular maintenance and minor adjustments are required. Tighten all hardware using the "Bolt Torque" chart at the back of this manual unless otherwise specified.



L630 shown installed on
LT60

WARNING High Pressure Fluid Hazard

To prevent serious injury or death from high pressure fluid:

- receive pressure on the system before repairing or adjusting.
- wear proper hand and eye protection when searching for leaks.
- keep all components in good repair.

WARNING Operation Hazard

Review your grapple manual for safe operating and handling procedures before beginning work.

NOTICE

Read and follow installation and setup instructions.

A hazardous condition exists if the unit is improperly installed, or if the kit is modified or changed in any way. Damage to the machine or accessory will result.

INSTALLATION INSTRUCTIONS



Ensure your log grapple, trailer and the area around it is clean and free of debris, resting on dry level ground, wheel chock applied and the engine shut off. Have the **Flat Bed** and tools close by.

Unpack the Flat Bed. Use the parts list in the back of this manual to check that all parts are included. All hardware and small parts are assembled to the parts.



WARNING Operation Hazard

Keep all bystanders at least 20 ft (6 m) away from the work area.



CAUTION Operation Hazard

Be aware of potential pinch points when installing flat bed.



WARNING Handling Hazard

Use caution when handling heavy equipment. Objects may fall and cause crushing injury to hands and feet. Lifting heavy objects may cause back or leg strain injuries.

Flat Bed Components

Kit includes:

- Flat Bed
- Fasteners and hardware

ASSEMBLY

Basic tools needed:

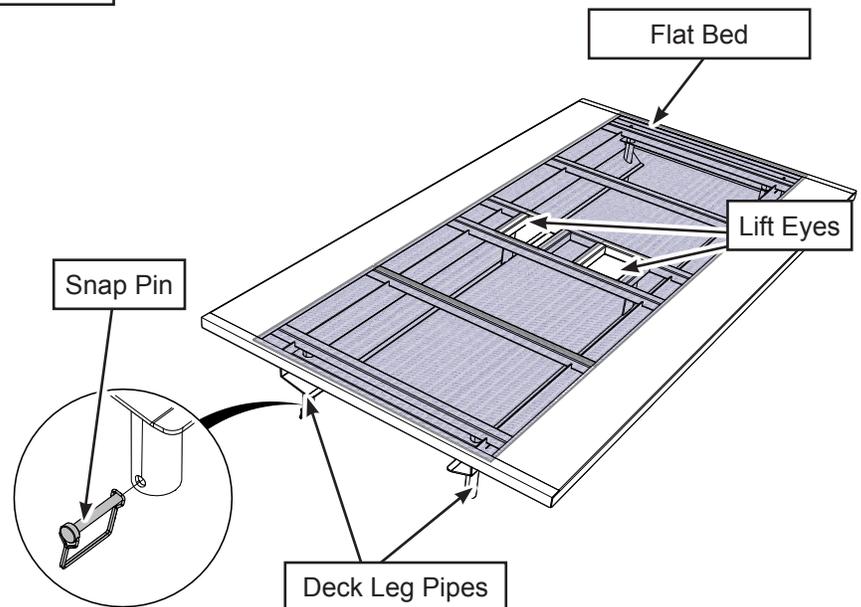
- standard set of wrenches or sockets

Prepare for Installation:

1. You will need 2 people for the installation.
2. Move the trailer to an level, open area.
3. To avoid tripping hazards, ensure there is no debris or objects in the area.
4. Remove all the bunk posts, have the flat bed beside the trailer.
5. Ensure the trailer is clean and clear of debris.

Install the Flat Bed

1. Start up the LX boom and lower the grapple over the flat bed, and open the grapple jaws.
2. Align the jaws with the lift eye's on the flat bed.
3. Slowly and carefully lower the grapple jaws into the lift eye's, slowly close the jaws as you lower.
4. When the grapple jaws are inserted, ensure the jaws are fully closed.
5. Slowly and carefully lift the flat bed.
6. The second person must steady and keep the bed level from front to back.
7. Slowly and carefully move the flat bed into position over the trailer.
8. Line up the deck leg pipes with the bunk post sockets.
9. Slowly and carefully lower the bed so the deck leg pipes insert into the bunk post sockets.
10. Use the snap lock pins to secure the deck leg pipes in place.
11. Carefully remove the grapple.



OPERATION

The L330 & L630 Flat Bed for the LX boom is the perfect match to BA201 Backhoe Kit with the LX boom.

Before beginning work be sure to review the work area and ensure the operator is fully trained in the use and capacity of the flat bed, and how to load and unload. Practice will be required to achieve the best results.



WARNING High Pressure Fluid Hazard

To prevent serious injury or death from high pressure fluid:

- Release pressure on the system before repairing or adjusting.
- Wear proper hand and eye protection when searching for leaks.
- Keep all components in good repair.



WARNING Handling Hazard

Use caution when handling heavy equipment. Objects may fall and cause crushing injury to hands and feet. Lifting heavy objects may cause back or leg strain injuries.



WARNING Operation Hazard

Keep all bystanders away of the work zone, at least 20 ft (6 m) away from the excavation work area.



WARNING Underground Utility Hazard

Contacting underground utilities can cause electrocution. You must contact an underground utility locating/marketing service before digging.



Caution Maximum Load Capacity

LT 30 5000 lb (2267 kg)

LT 60 10,000 lb (4536 kg)

Do not overload, damage may occur.



CAUTION Operation Hazard

Be aware of potential pinch points when installing Flat Bed.



Caution Operation Hazard

Ensure deck leg pipe snap lock pins are in place to secure the flat bed to the trailer.

NOTICE

Read and follow installation and setup instructions.

A hazardous condition exists if the unit is improperly installed, or if the kit is modified or changed in any way. Damage to the machine or accessory will result.

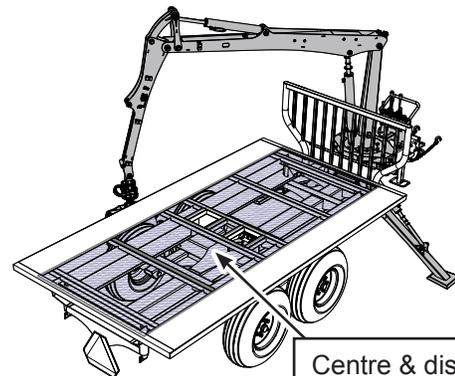


OPERATING SAFETY

- Please remember it is important that you read the operator's manual and heed the safety signs on the Timber Talon. They are there for your safety, as well as the safety of others. **The safe use of this machine is strictly up to you, the operator.**
- Before moving, making adjustments or servicing, put the machine in safe condition:
 - Install boom pin lock
 - Shut off the engine
 - Turn fuel valve off
 - Ensure boom is in safe position
 - Secure the tow vehicle / trailer from movement
- Review section on Boom Safety in the **operators manual** and set up the operator safe zone and work zone.
- Review Operating Safety section of this manual before using the flat bed.
- Be aware of potential pinch points when installing and using the flat bed. Keep clear and keep bystanders clear during installation and use.
- Do not over load the flat bed, too much weight could cause the bed to bend, collapse or trailer to tip.
- Be aware and keep clear of overhead utilities and obstructions.
- Stay 50 ft (15 m) away from power lines. Electrocutation can occur without direct contact.
- Do not walk or work under a raised machine or attachment. It is potentially hazardous to depend on the hydraulic system to hold the machine or attachment in place.
- Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.
- Keep the working area clean and free of debris to prevent tripping. Operate only on level ground.
- When operating this equipment it is recommended to have at least 2 operators present and trained in safe operation of the machine. All operators must be completely familiar with all components of the machine and their function.
- Review safety instructions before each use or at least annually.

Loading

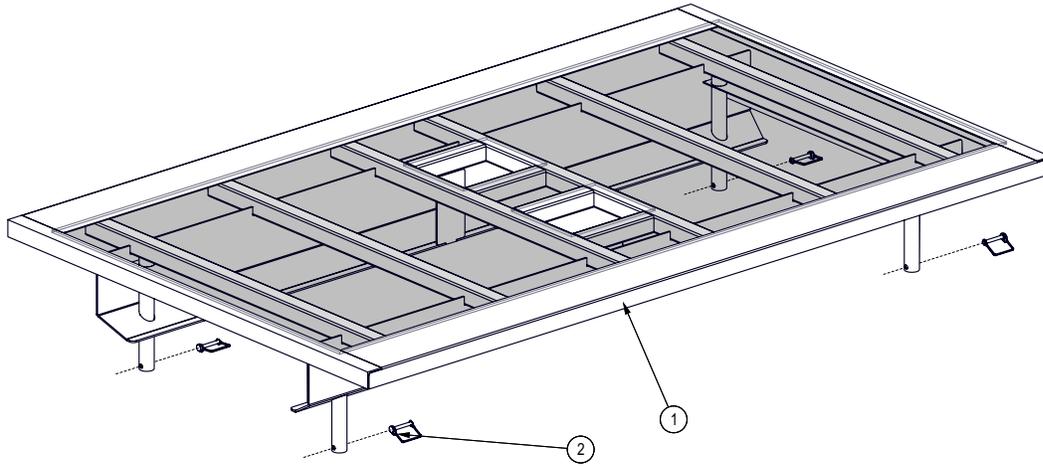
1. Load the flat bed as required.
2. Distribute the load evenly from side to side, avoid overloading one side.
3. Distribute the load evenly from front to back.
4. Secure loads to prevent moving or shifting during transportation.



Centre & distribute the load evenly

L330 PARTS BREAKDOWN

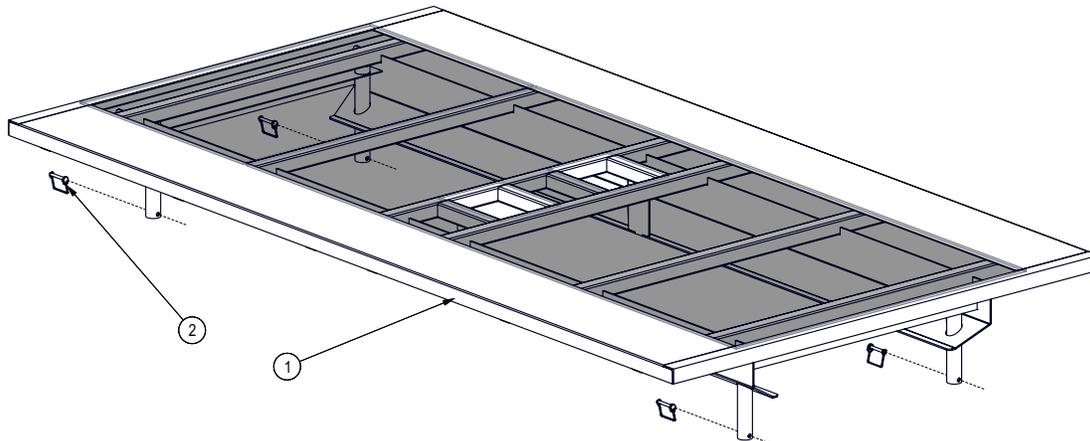
L330 Flat Bed for
LT30H, LT30HA
LT30 & LT30A



| BOM ID | Part No. | Description | Qty |
|--------|----------|------------------------------|-----|
| 1 | 6089W102 | LT30 Expanded Metal Deck | 1 |
| 2 | Z12432 | Snap Lock Pin, 3/8" x 2-1/2" | 4 |

L630 PARTS BREAKDOWN

L630 Flat Bed for
LT60 & LT60H



| BOM ID | Part No. | Description | Qty |
|--------|----------|------------------------------|-----|
| 1 | 6089W122 | LT60 Expanded Metal Deck | 1 |
| 2 | Z12432 | Snap Lock Pin, 3/8" x 2-1/2" | 4 |

Bolt Torque

CHECKING BOLT TORQUE

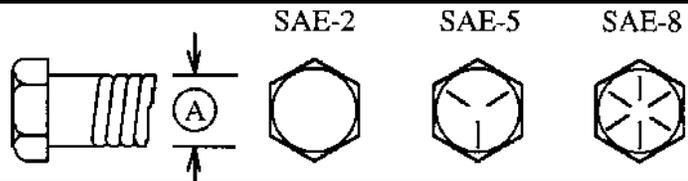
The tables shown below give correct torque values for various bolts and capscrews. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

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.

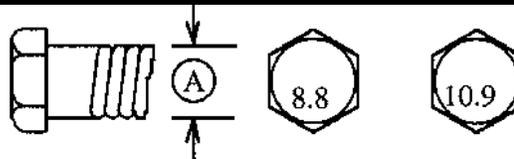
ENGLISH TORQUE SPECIFICATIONS

| 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 |



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 |



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.
- The torque values shown are based on lubricated connections as in reassembly.

| HYDRAULIC FITTING TORQUE | | | | | |
|--------------------------|-----------------------|---------------|---------|--|--------|
| Tube Size OD | Nut Size Across Flats | Torque Value* | | Recommended Turns To Tighten (After Finger Tightening) | |
| | | (N.m) | (lb-ft) | (Flats) | (Turn) |
| (in.) | (in.) | | | | |
| 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 |

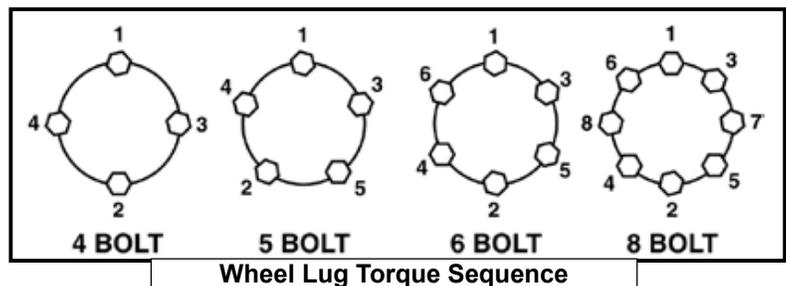
It is extremely important safety procedure to apply and maintain proper wheel mounting torque on your trailer axle. Torque wrenches are the best method to assure the proper amount of torque is being applied to a fastener.

Wheel lugs should be torqued before first road use and after each wheel removal. Check and re torque after the first 10 miles, 25 miles, and again at 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.

1. Start all lugs by hand to prevent cross threading.
2. Tighten lugs in sequence, per wheel lug torque sequence chart.
3. The tightening of the fasteners should be done in stages. Following the recommended sequence, tighten fasteners per wheel torque requirements chart.

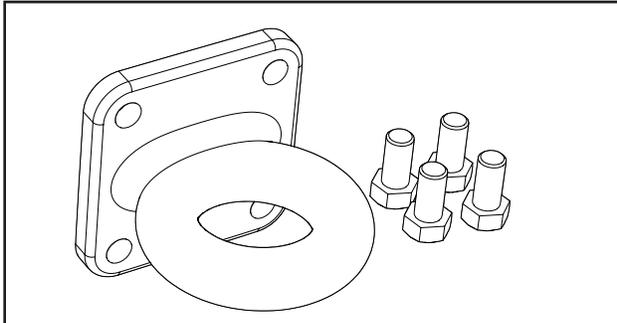
| Wheel Torque Requirements | | | |
|---------------------------|-----------|-----------|-----------|
| Wheel Size | 1st Stage | 2nd Stage | 3rd Stage |
| 8" | 12 - 20 | 30 - 35 | 45 - 55 |
| 12" | 20 - 25 | 35 - 40 | 50 - 60 |
| 13" | 20 - 25 | 35 - 40 | 50 - 60 |
| 14" | 20 - 25 | 50 - 60 | 90 - 120 |
| 15" | 20 - 25 | 50 - 60 | 90 - 120 |
| 16" | 20 - 25 | 50 - 60 | 90 - 120 |



ACCESSORIES

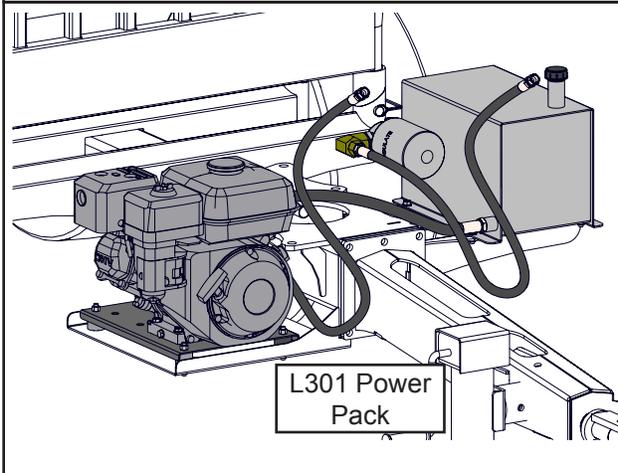
Call your dealer for pricing and availability.

For replacement parts, go to www.wallensteinequipment.com and click on "Parts and Manuals" to download the latest parts manual for your model, then call your dealer to order.



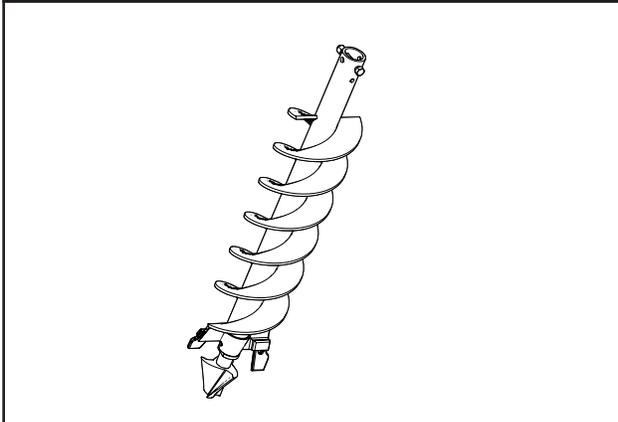
#L640 PINTLE HITCH

For **LT60 trailer only**.
Pintle hitch accessory to match up to your existing pintle hook.



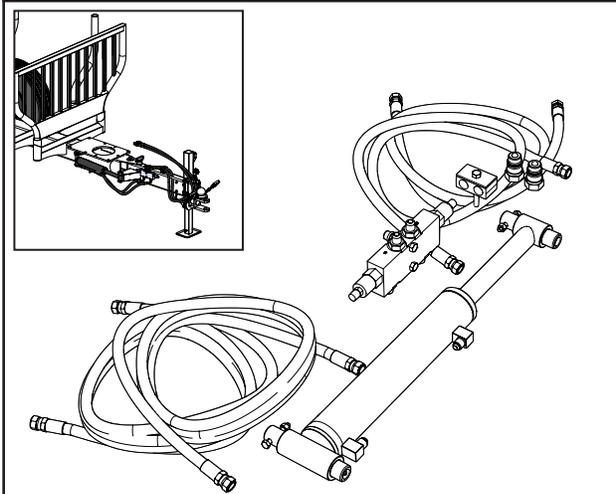
#L601 LX115 POWER PACK #L301 LX95 POWER PACK

Independently power your LX grapple: **L601 for LX115** features a Honda 9HP engine, and the **L301 for LX95** contains a 6 HP Honda. Both power packs include a hydraulic pump and 4.6 US gal (17.5 L) reservoir tank.



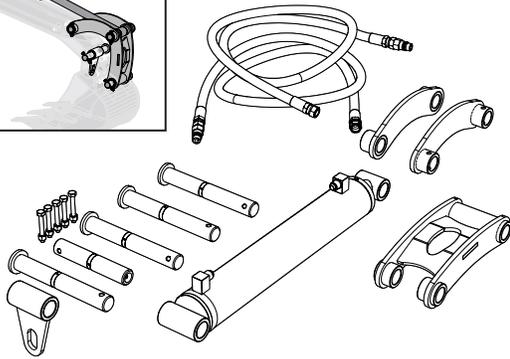
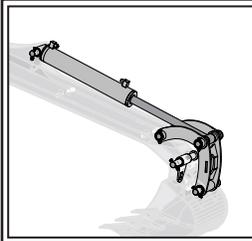
#LA610 6" DIAMETER AUGER KIT #LA910 9" DIAMETER AUGER KIT

For **all LX models**.
A great way to get your fence post jobs done quickly and efficiently. Both augers are capable of a 42" (107 cm) hole depth.



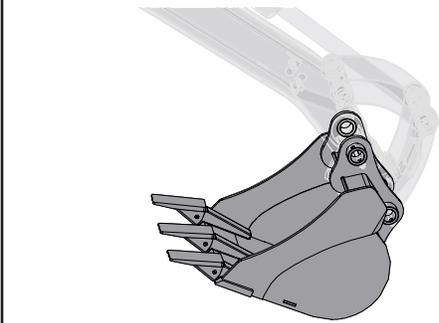
#L650 HYDRAULIC ARTICULATED DRAWBAR (Tractor remote hydraulics required)

For **LT60 trailer only**.
Tight bush trail corner navigation made easy with this handy hydraulic articulating drawbar. Available for off road use only. It is controlled by your tractor's remote hydraulic system.



#BA201 BACKHOE ACCESSORY

For all LX models. (Bucket not included)
Trenching made easier with this great accessories, includes: hydraulic cylinder, hoses, bucket linkage, pins & hardware)

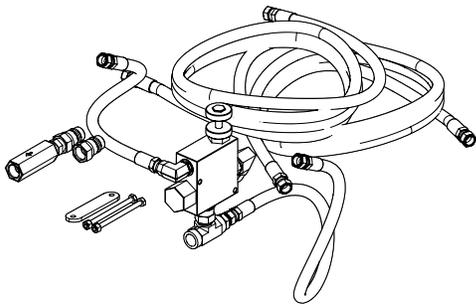


#BACKHOE BUCKET OPTIONS

for #BA201 Backhoe Kit:

Choose the bucket you need for the job at hand.

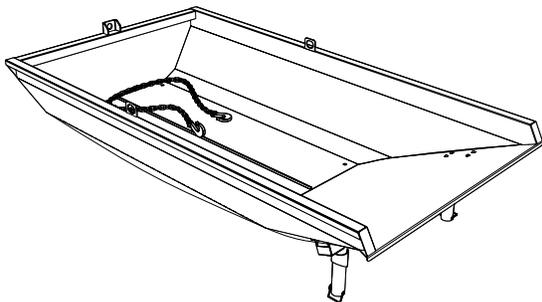
- BK2690** – 9" 3-Tooth Bucket
- BK2612** – 12" 3-Tooth Bucket
- BK2615** – 15" 4-Tooth Bucket
- BK2618** – 18" 4-Tooth Bucket



#L101 TRACTOR HYDRAULIC KIT

For all LX models

Makes uses the existing tractor remote hydraulics. Comes with everything you need to attach and control your hydraulics. Includes: flow control, hoses, and hardware. (L101 included in L400 3-point hitch grapple version.)



#L310 LT30 DUMP BOX #L620 LT60 DUMP BOX

One for each LT trailer.

Load, transport and easily dump your loads, made for use with the Backhoe kit.

LT30 trailer the L310 holds 25 ft³ (0.7 m³).

LT60 trailer the L620 holds 1.3 cubic meters (45 cu.ft).

Both dump boxes come complete with a 6 ft (1.8 m) chain used for dumping.