

INSTALLATION INSTRUCTIONS

W4300 Light Kit

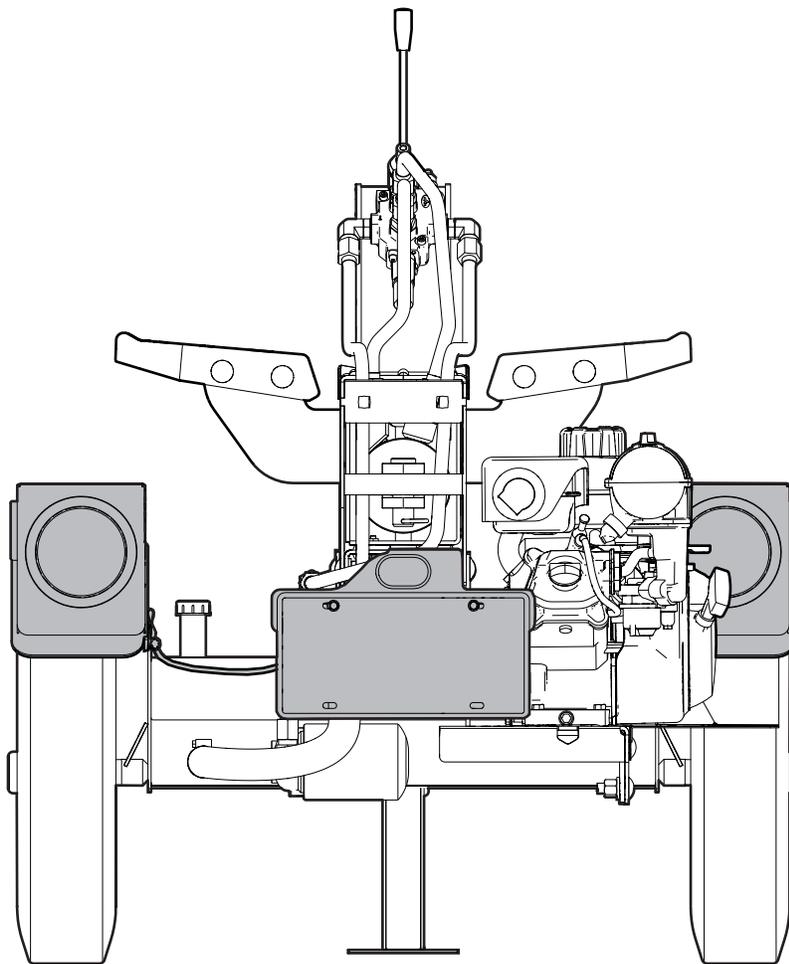


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1. Introduction

WARNING!

Read the machine Operator’s Manual before you install or use this accessory. Carefully read all the safety information and understand all the safety labels that are on the machine. If you do not read and obey the machine information, there is a risk of serious injury or machine damage.

The W4300 light kit only works with the WXT20H log splitter.

Illustrations are provided for reference only. It is possible that some details are not shown.

For support or service, contact your local Wallenstein Equipment dealer or distributor.

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2. Safety

WARNING!

Read the machine Operator's Manual before you install or use this accessory. Carefully read all the safety information and understand all the safety labels that are on the machine. If you do not read and obey the machine information, there is a risk of serious injury or machine damage.

2.1 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 machine and in the manual.

When you see this symbol, be aware of the possibility of personal injury or death. Obey the instructions in the safety message.



2.2 Signal Words

The signal words **DANGER**, **WARNING** and **CAUTION** identify the severity of a hazard to anyone who uses the machine. The applicable signal word for each message was selected using the following guidelines:

DANGER

Identifies a hazardous situation that, if not avoided, **will** result in serious injury or death. This signal word is used to tell anyone who uses the machine about the most hazardous situations and machine components that cannot be guarded against.

WARNING

Identifies a hazardous situation that, if not avoided, **could** result in serious injury or death. This signal word includes hazards that occur when guards are removed and can be used to tell anyone who uses the machine about unsafe practices.

CAUTION

Identifies a hazardous situation that, if not avoided, **could** result in minor or moderate injury. It can also be used to tell anyone who uses the machine about unsafe practices.

IMPORTANT – Identifies a situation that could result in damage to the machine or property, but is not a personal injury hazard.



Provides additional information that is helpful.

3. Accessory Components

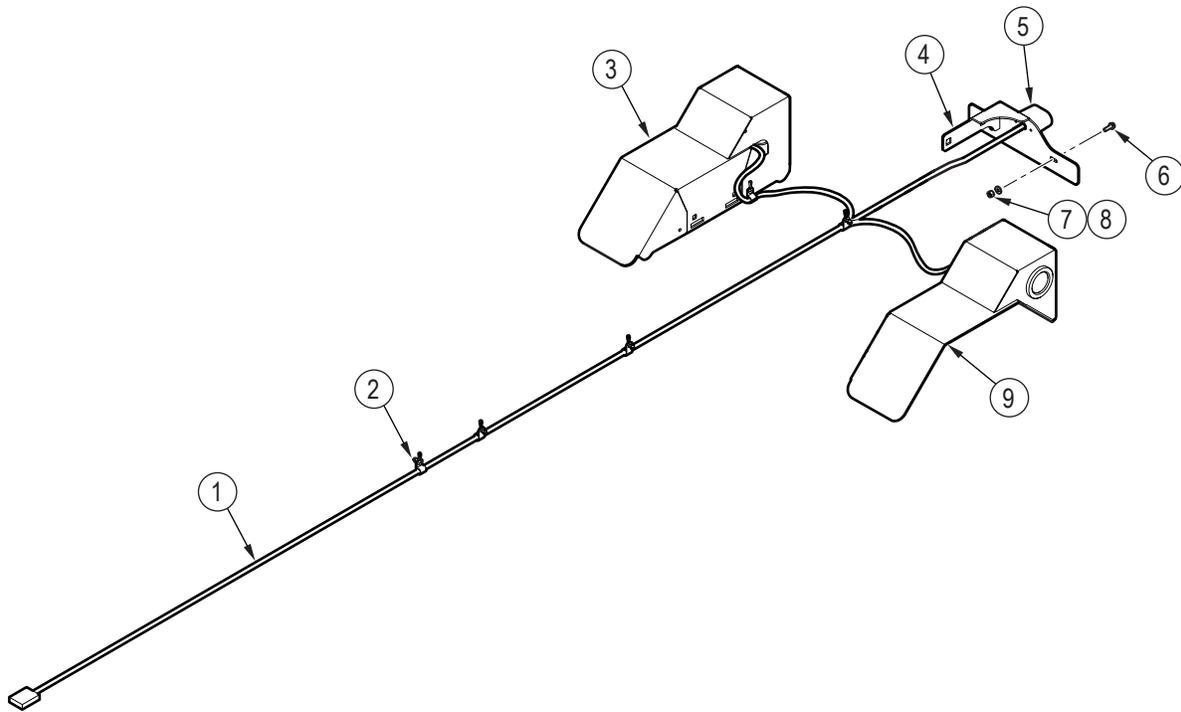


Figure 1 – Accessory components

Item	Part Number	Description	Quantity
1	2074F109	Wire harness	1
2	Z62831	Cable clamp	6
3	2074W122	Right side light assembly	1
4	2074L18	License plate light assembly	1
5	Z61301	Rear light	1
6	Z76111	Flange bolt, 1/4" NC x 3/4"	2
7	Z72211	Hex lock nut, 1/4" NC	2
8	Z73111G8	SAE washer, 1/4" Gr. 8	2
9	2074W122H	Left side light assembly	1

4. Install a Light Kit

WARNING!

Read the installation instructions fully before you start. Make sure that the accessory is installed correctly. Do not change any components. Incorrect installation or changes to the equipment can cause serious injury or damage the machine.

The W4300 kit comes partially assembled. Illustrations in this document show the typical installation method. This procedure is one-time only; it is not necessary to do it again.

The light kit item numbers are in brackets and are defined under *Accessory Components* on page 4.

4.2 Procedure

Do the following to install the W4300 kit on your log splitter:

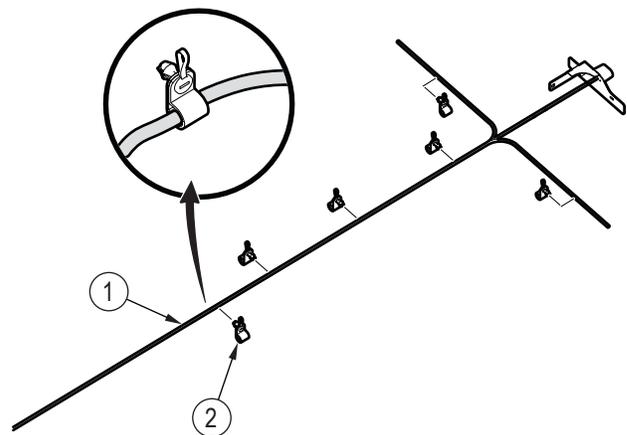
Step 1

IMPORTANT! Be careful with the wire harness.



The left side (9) and right side (3) light assemblies are attached to the wire harness. They are not shown in the illustration for clarity.

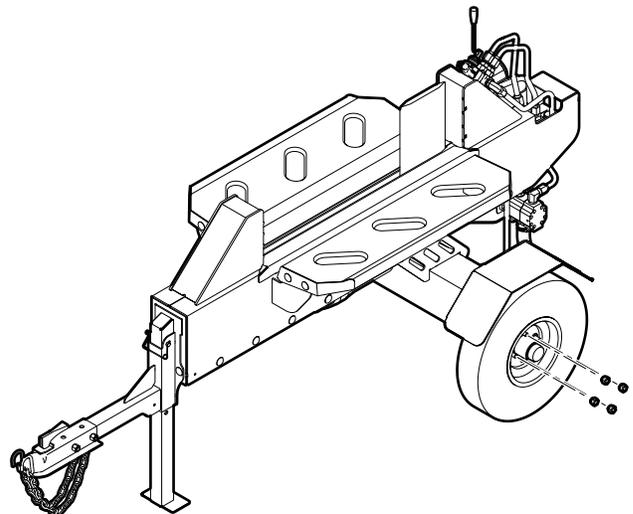
Open each of the cable clamps (2) and install them on the wire harness (1) in the locations shown in the illustration.



Step 2

On the left side of the log splitter, put a jack stand or blocks below the axle. Remove the four lug nuts from the wheel assembly.

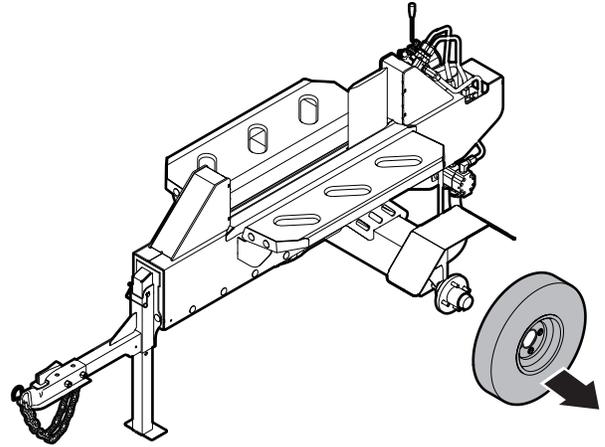
Set aside the fasteners. They are necessary for installation.



Step 3

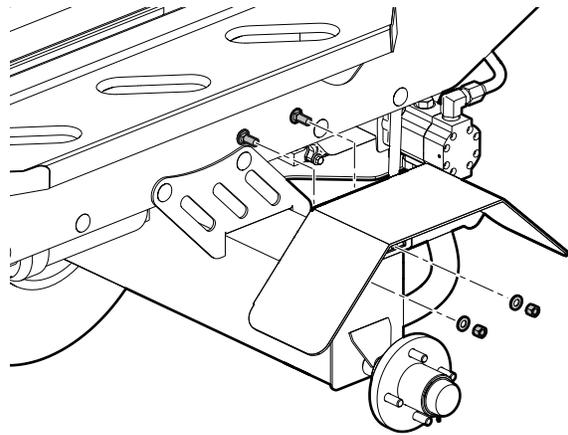
Remove the left wheel.

Set aside the wheel. It is necessary for installation.

**Step 4**

Remove the two bolts, two nuts, two washers, and the fender.

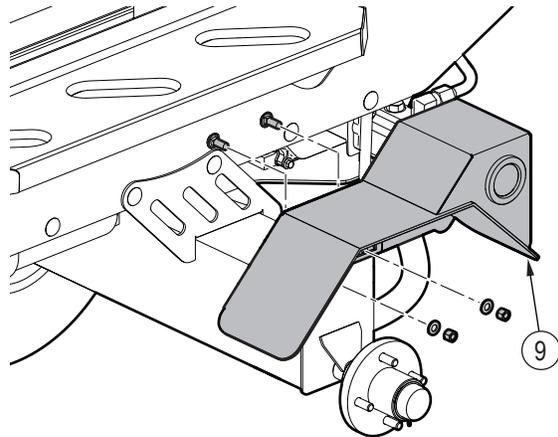
Set aside the fasteners and fender. The fasteners are necessary for installation. The fender is not necessary.

**Step 5**

Install the left side light assembly (9):

- a. Align the left side light assembly with the bolt holes on the hydraulic reservoir plate.
- b. Install the fasteners that were removed in step 4 through the left side light assembly and the hydraulic reservoir plate.

Only hand tighten the fasteners.

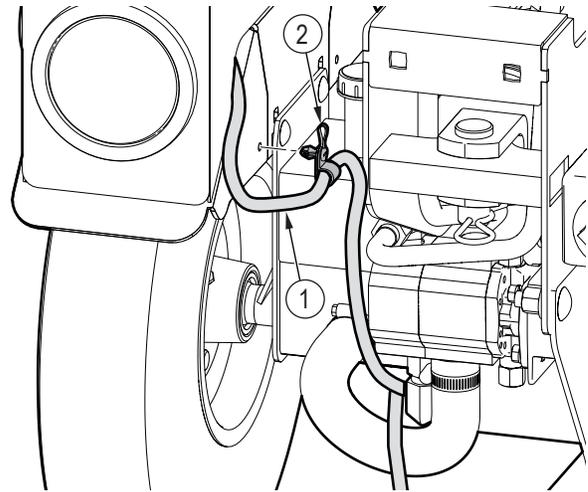
**Step 6**

Install the wheel on the axle. Install the lug nuts that were removed in step 2.

Torque the lug nuts to the correct specifications.
For lug nut torque specifications, see *Lug Nut Torque* on page 12.

Step 7

Install the left side cable clamp (2) into the hole in the left side light assembly (9).

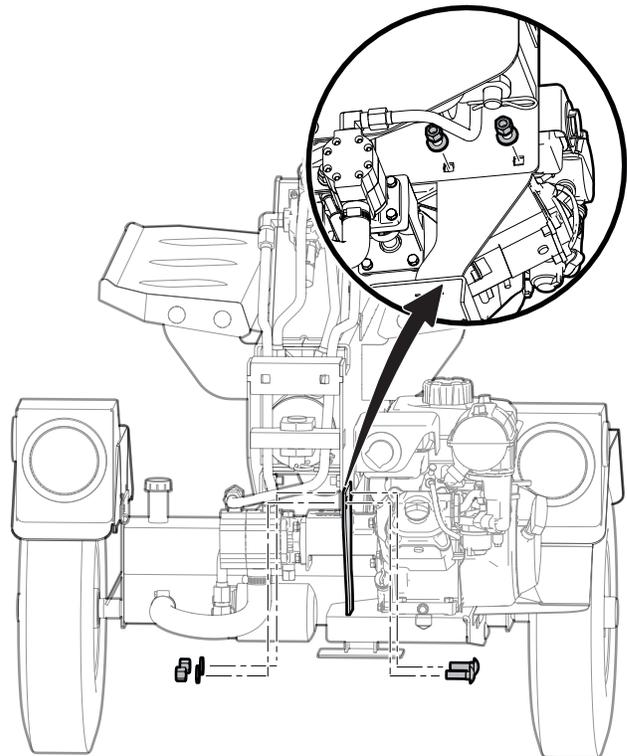
**Step 8**

Do steps 2 to 7 again on the right side of the log splitter.

Step 9

Remove the two bolts, two nuts, and two washers from the rear machine frame.

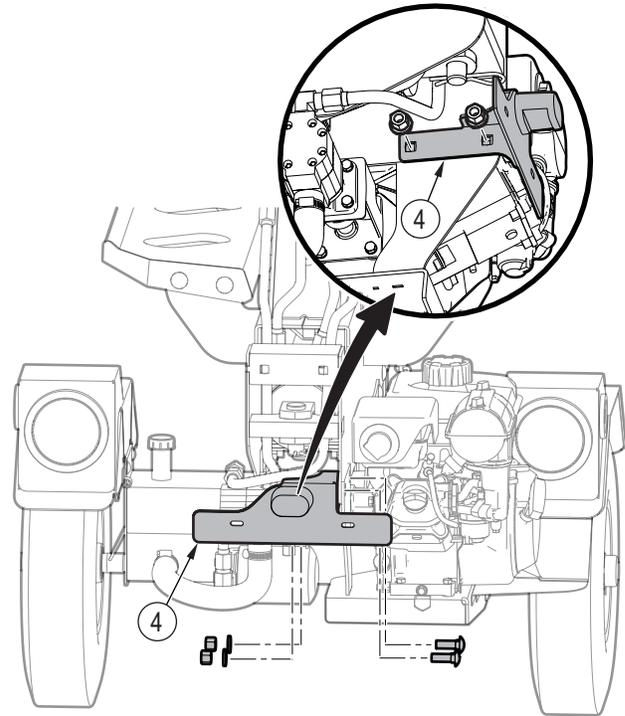
Set aside the fasteners. They are necessary for installation.



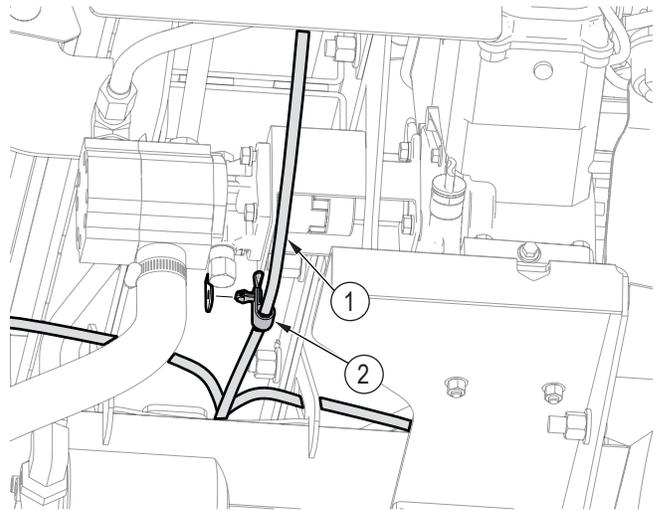
Step 10

Align the bolt holes on license plate light assembly (4) with the bolt holes on the rear machine frame. Install the fasteners that were removed in step 9.

Only hand tighten the fasteners.

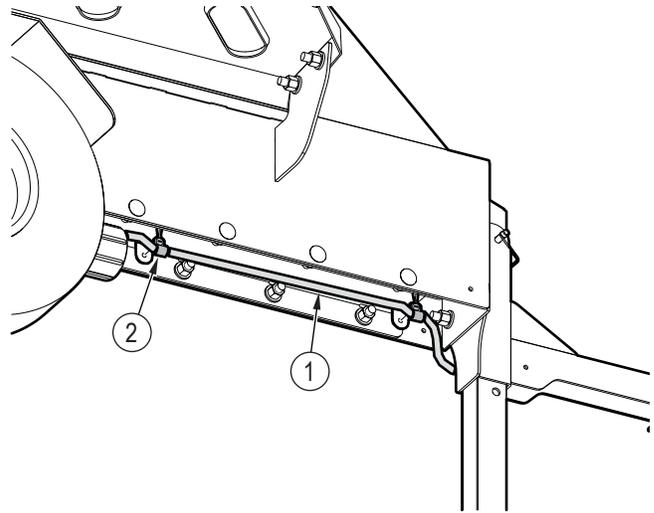
**Step 11**

On the bottom of the machine, install the rear cable clamp (2) into the rear cable-clamp mount hole.



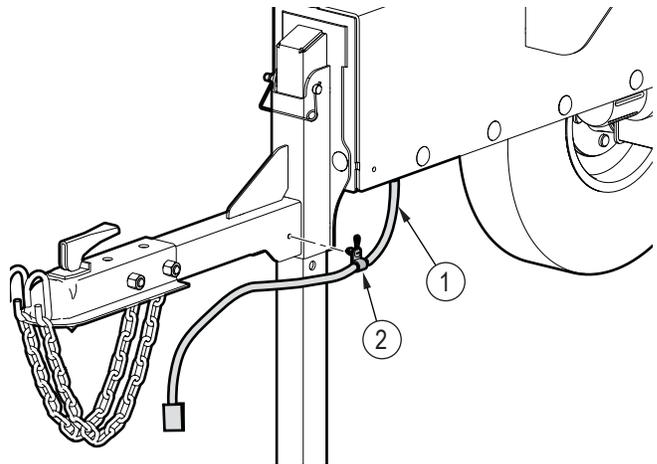
Step 12

Install the two middle cable clamps (2) into the two machine frame cable-clamp mount holes.



Step 13

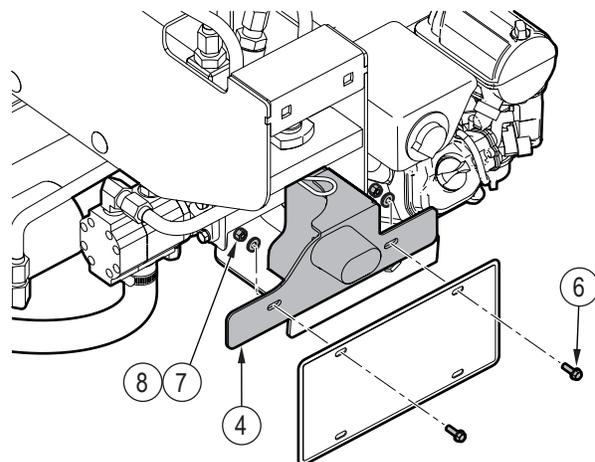
Install the front cable clamp (2) into the trailer tongue cable-clamp mount hole.



Step 14

Attach your license plate to the license plate light assembly (4). Install the two bolts (6), two nuts (7), and two washers (8).

Only hand tighten the fasteners.



Step 15

Torque all the fasteners to the correct specifications.
For bolt torque specifications, see *Bolt Torque* on page 11.

5. Test the Electrical Connection

This procedure tells you how to test the light kit electrical connection. Two people are necessary to do the test.

For more information, see the log splitter Operator's Manual.

- a. Attach the machine to a tow vehicle.
For instructions, see the log splitter Operator's Manual.
- b. Stop the tow vehicle engine and apply the emergency brake.
- c. Connect the wire harness to the tow vehicle.
- d. Examine the wire harness to make sure that the wire harness length is correct.
Make sure that the wire harness does not touch the ground, but the tow vehicle can turn without tension on the wire harness.
- e. Have one person stand a safe distance from the machine where they can see the lights.
- f. Have the second person start the tow vehicle.
Make sure that the tow vehicle emergency brake is on.
For instructions, see the tow vehicle manual.
- g. Do each of the following at the same time:
 - If you are the person in the tow vehicle, operate each of the following lights:
 - Brake lights
 - Right side turn signal
 - Left side turn signal
 - If you are the person who can see the lights, watch to see if the following lights illuminate:
 - License plate light (stays on)
 - Brake lights
 - Right side turn signal
 - Left side turn signal
- h. Do one of the following:
 - If the lights operate correctly, the wire harness is connected correctly.
 - If the lights do not operate correctly, check the wire harness connection to the tow vehicle. Make sure that the connection is correct and tight.
For more help, contact your local Wallenstein dealer or distributor.
- i. Do step b. again.

6. Specifications

This section provides general torque specifications for your reference.

6.1 Bolt Torque

IMPORTANT! If you replace hardware, use fasteners of the same grade.

IMPORTANT! The torque specifications in these tables are for non-greased or non-oiled threads. Do not grease or oil fastener threads unless otherwise indicated. When using a thread lock, increase the specified torque 5%.



Bolt grades are identified by the marks on the bolt head.

The bolt torque specification tables provide the correct torque settings for common bolts and capscrews. Tighten all bolts to the torque that is specified in the table, unless otherwise indicated. Check the bolt tightness periodically.

Imperial Bolt Torque Specifications						
Bolt Diameter	Torque					
	SAE Gr. 2		SAE Gr. 5		SAE Gr. 8	
	lbf•ft	N•m	lbf•ft	N•m	lbf•ft	N•m
1/4 inch	6	8	9	12	12	17
5/16 inch	10	13	19	25	27	36
3/8 inch	20	27	33	45	45	63
7/16 inch	30	41	53	72	75	100
1/2 inch	45	61	80	110	115	155
9/16 inch	60	95	115	155	165	220
5/8 inch	95	128	160	215	220	305
3/4 inch	165	225	290	390	400	540
7/8 inch	170	230	420	570	650	880



SAE Gr. 2



SAE Gr. 5



SAE Gr. 8

Metric Bolt Torque Specifications				
Bolt Diameter	Torque			
	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
M14	83	112	116	158
M16	166	225	229	310
M20	321	435	450	610
M30	1,103	1,495	1,550	2,100



8.8



10.9

6.2 Lug Nut Torque

! WARNING!

Wheel lug nuts must be installed and kept at the correct torque to prevent loose wheels, broken studs, or possible separation of a wheel from the axle.

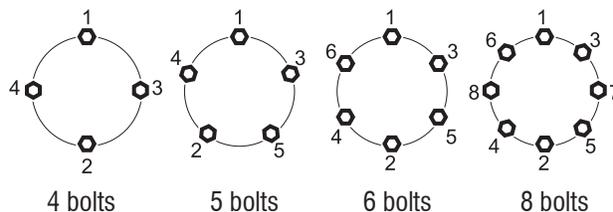
It is an extremely important safety procedure to apply and maintain the correct torque on lug nuts that secure the wheel to the trailer axle. A calibrated torque wrench is the best tool to make sure that the correct amount of torque is applied to a fastener.

Tighten wheel lug nuts to the correct torque before the first use and after each wheel removal. After a wheel is installed, check and torque the lug nuts after the first 10 miles (16 km), 25 miles (40 km), and 50 miles (80 km). Check the lug nut torque periodically thereafter.

- Start all lug nuts onto the threads by hand.
- Tighten lug nuts in stages, following the pattern shown below the Lug Nut Torque Specifications table.

Lug Nut Torque Specifications				
Wheel size	Units	First stage	Second stage	Third stage
8 inch	lbf•ft N•m	12–20 16–26	30–35 39–45.5	45–55 58.5–71.5
12 inch	lbf•ft N•m	20–25 26–32.5	35–40 45.5–52	50–60 65–78
13 inch	lbf•ft N•m	20–25 26–32.5	35–40 45.5–52	50–60 65–78
14 inch	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156
15 inch	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156
16 inch	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156

Lug nut torque pattern:



7. Warranty



WALLENSTEIN
LIMITED WARRANTY

Wallenstein products are warranted to be free of defects in materials and workmanship under normal use and service, for a period of

Five Years for Consumer Use

Two Years for Commercial/Rental Use

from the date of purchase, when operated and maintained in accordance with the operating and maintenance instructions supplied with the unit. Warranty is limited to the repair of the product and/or replacement of parts.

This warranty is extended only to the original purchaser and is not transferable.

Repairs must be done by an authorized dealer. Products will be returned to the dealer at the customer's expense. Include the original purchase receipt with any claim.

This warranty does not cover the following:

- 1) Normal maintenance or adjustments
- 2) Normal replacement of wearable and service parts
- 3) Consequential damage, indirect damage, or loss of profits
- 4) Damages resulting from:
 - Misuse, negligence, accident, theft or fire
 - Use of improper or insufficient fuel, fluids or lubricants
 - Use of parts or aftermarket accessories other than genuine Wallenstein parts
 - Modifications, alteration, tampering or improper repair performed by parties other than an authorized dealer
 - Any device or accessories installed by parties other than an authorized dealer
- 5) Engines. Engines are covered by the manufacturer of the engine for the warranty period they specify. For the details of your engine warranty, see your engine owner's manual. Information about engine warranty and service is also available in the FAQ section at www.wallensteinequipment.com



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