



BRAKE FLANGE NUT RECALL REPAIR INSTRUCTIONS

RECALL# 16E-088

LABOR FLAT RATE: 0.8 HOURS

Purpose

The intent of this document is to provide instructions for the inspection and repair of flange nuts that may be loose on the backing plate of the roadside brake. This involves part numbers V000394887/V000346846.

Preparation

Resources Required

- Impact Wrench
- Torque Wrench

Inspection and Corrective Action

Hub Removal

1. Lift and support coach per manufacturer's requirements.

⚠ WARNING

Lift unit by the frame and never the axle or suspension. Do not go under unit unless it is properly supported by jack stands. Unsupported units can fall causing death or serious injury.

2. Remove the lug nuts from the wheel and set aside (Fig. 1).
3. Remove the wheel from the axle hub and set aside (Fig. 2).

Fig. 1

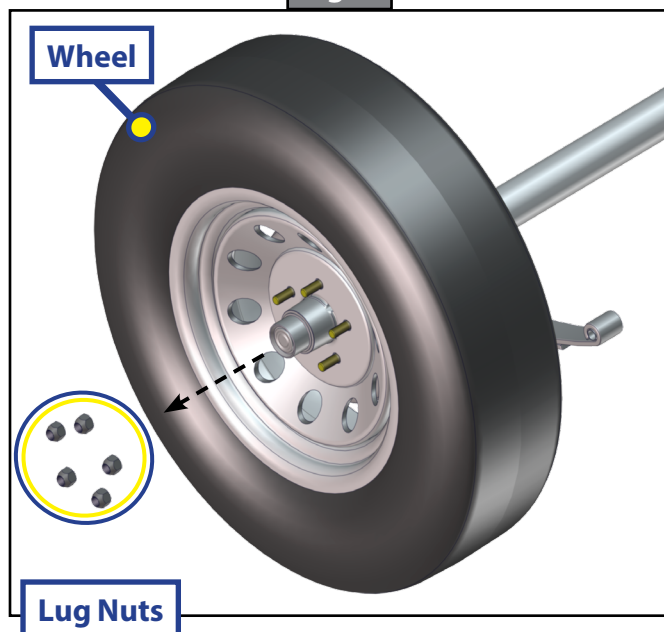
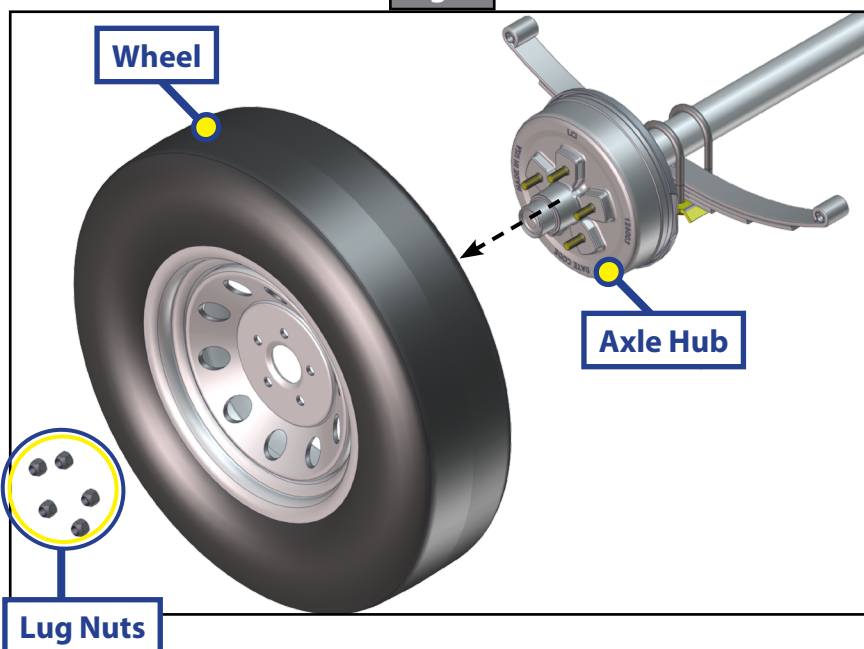


Fig. 2



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Fig. 3

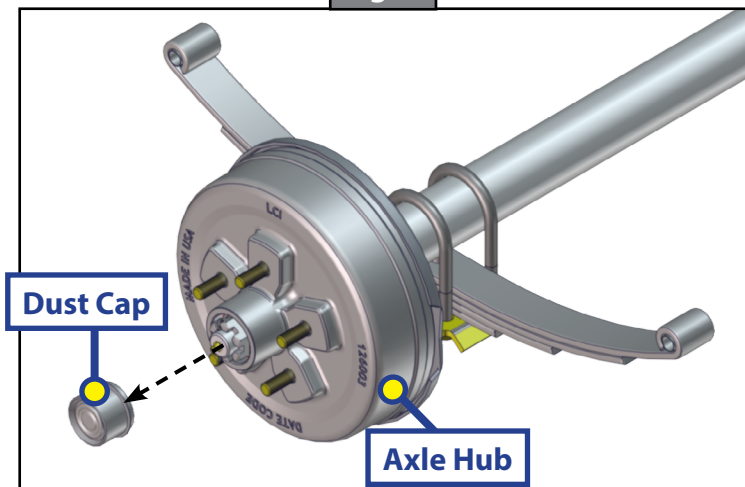
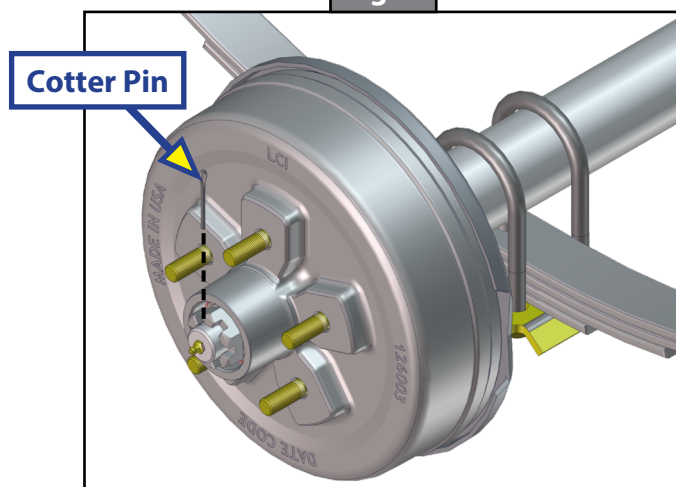


Fig. 4



4. Remove the dust cap by prying the edge out of the hub (Fig. 3). If equipped with oil lubrication, unscrew oil cap using a 2½" socket. Let oil drain into pan.
5. Pull the cotter pin from the castle nut and **DISCARD THE COTTER PIN** (Fig. 4).
6. Remove the castle nut from the spindle (Fig. 5).
7. Remove the spindle washer from the spindle (Fig. 6).
8. Place hand over nose of hub during removal to contain outer bearing cone or remove outer bearing cone prior to removal of hub. Remove the hub from the spindle (Fig. 7).

NOTE: Brakes may need to be adjusted or backed off to remove drum from spindle.

NOTE: A gear puller may be necessary to remove hub from spindle.

Fig. 5

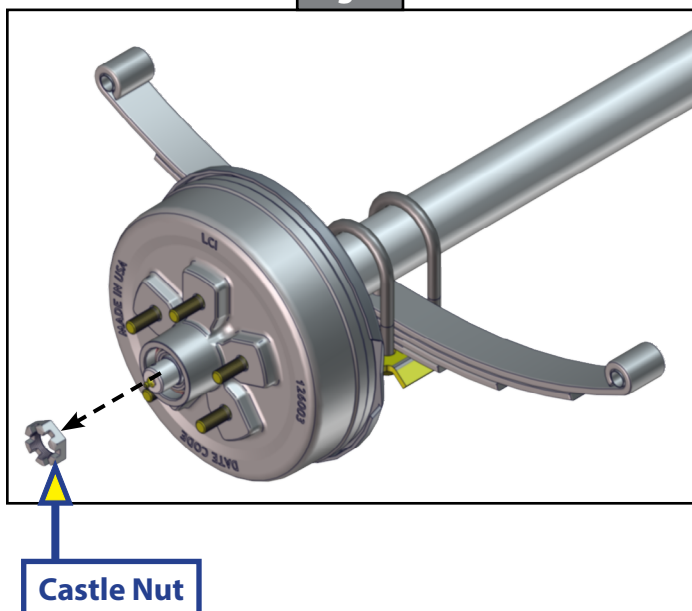


Fig. 6

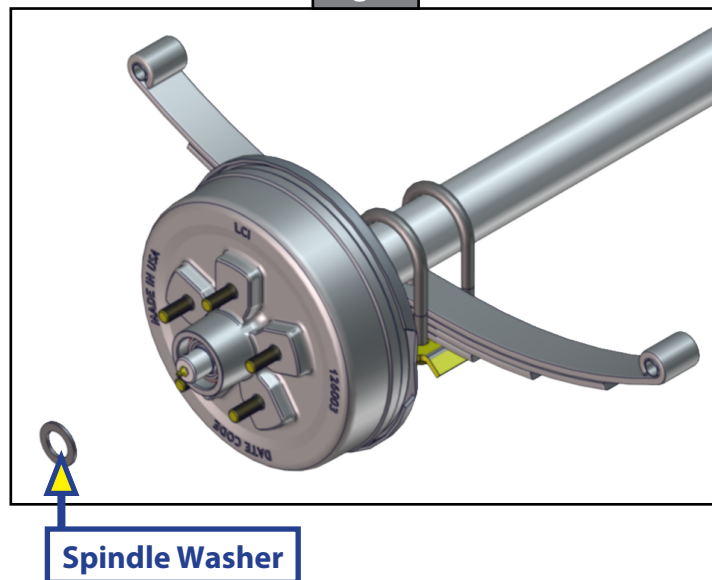
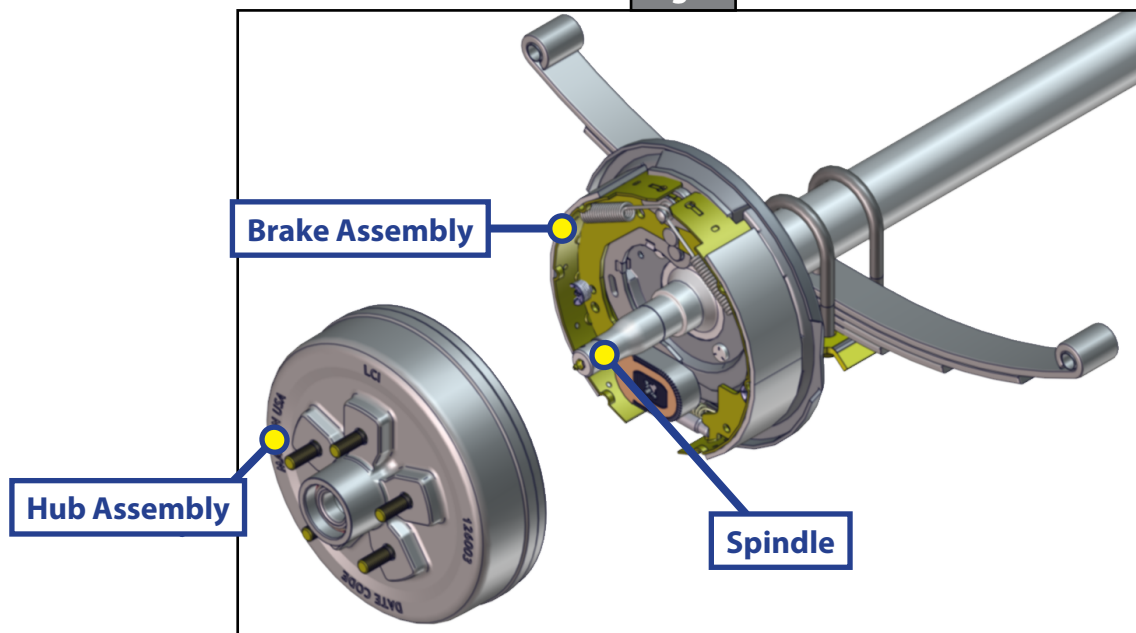


Fig. 7



⚠ CAUTION

Be aware that when hubs and braking components are opened, disassembled, or otherwise tampered with, there is a possibility of grease coating the brake pads, magnet and braking surfaces of the hub, greatly reducing the mechanism's ability to effectively bring the vehicle to a slower speed or stop. If grease is present on the brake pads, magnet or the braking surface of the hub, the hub and brake assembly **MUST** be replaced.

Check Brake Flange Nuts

1. Check brake flange nuts (Fig. 8) with a torque wrench.
2. If not tightened to 25-30 ft-lbs, use a torque wrench and tighten to 30 ft-lbs.

NOTE: It is important to tighten the flange nuts in a star pattern (Fig. 9).

Fig. 8

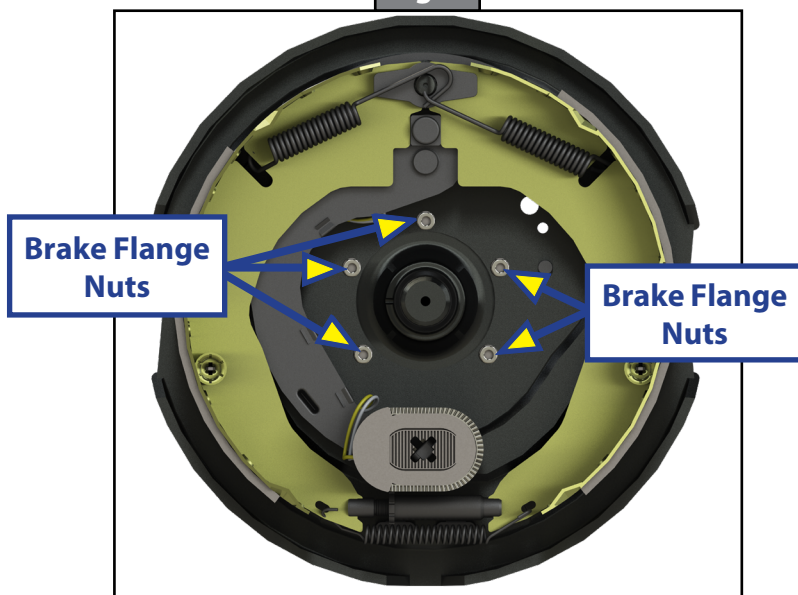
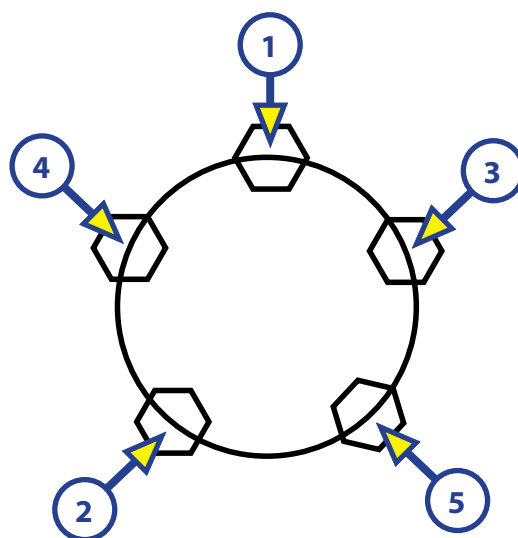


Fig. 9

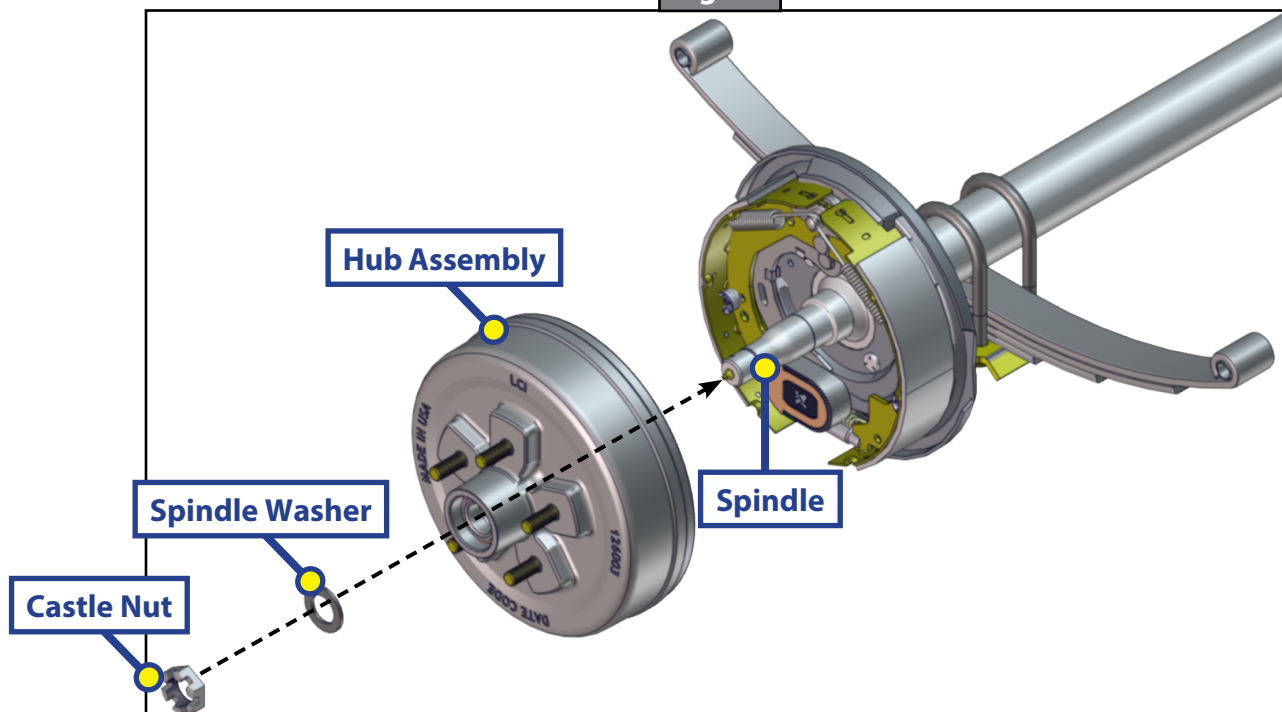


Hub Replacement

NOTE: Wipe all grease from spindle prior to hub install to prevent brake contamination after hub install.

1. Place hub assembly onto the axle spindle followed by the spindle washer and castle nut (Fig. 10). Castle nut should be torqued to 50 ft.-lb. Rotate the hub during the tightening process.

Fig. 10



2. Loosen castle nut to back off the torque.
3. Tighten castle nut finger tight until snug.
4. Insert **NEW** cotter pin (Fig. 11). If cotter pin does not line up with hole, back castle nut up slightly until pin can be inserted.
5. Bend cotter pin over to lock nut in place (Fig. 12). Nut should be free to move with only the cotter pin keeping it in place.

Fig. 11

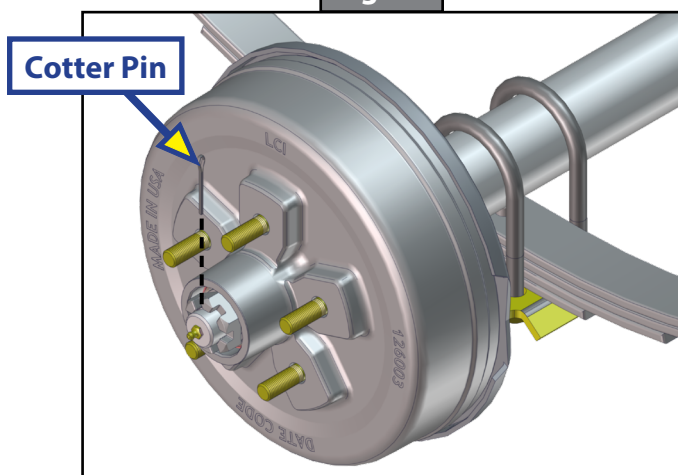
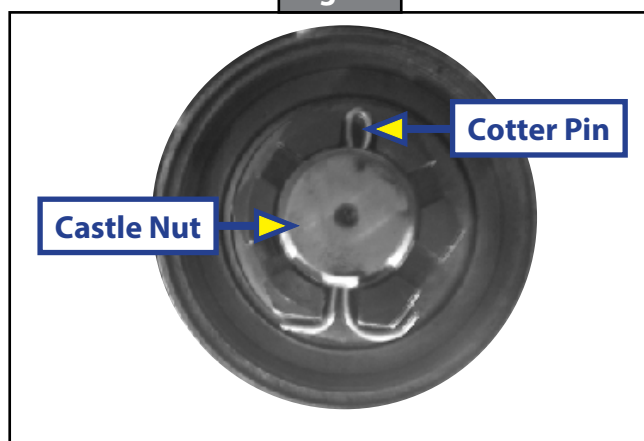


Fig. 12



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6. Reinstall dust cap into the hub assembly (Fig. 13).
7. Reinstall the wheel onto the hub assembly (Fig. 14).
8. Reinstall the lug nuts onto the hub studs (Fig. 15). See the torque requirements section on the next page.

Fig. 13

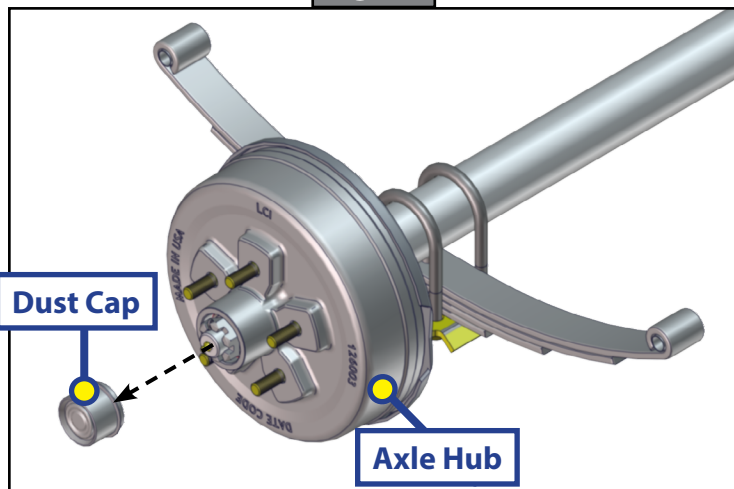


Fig. 14

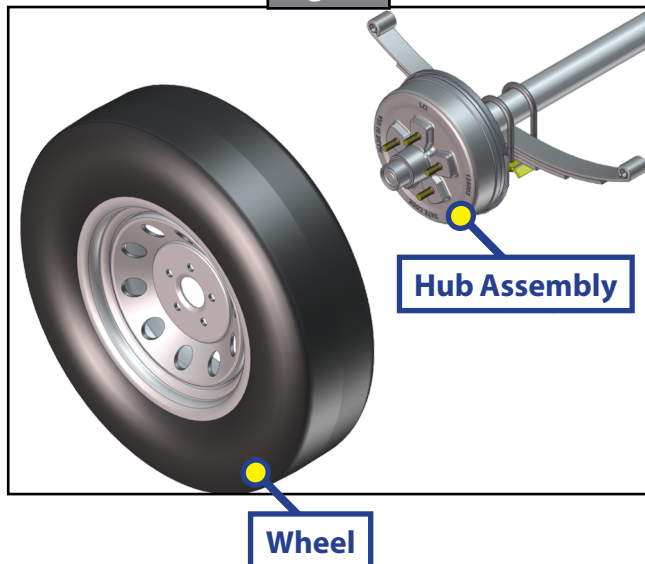
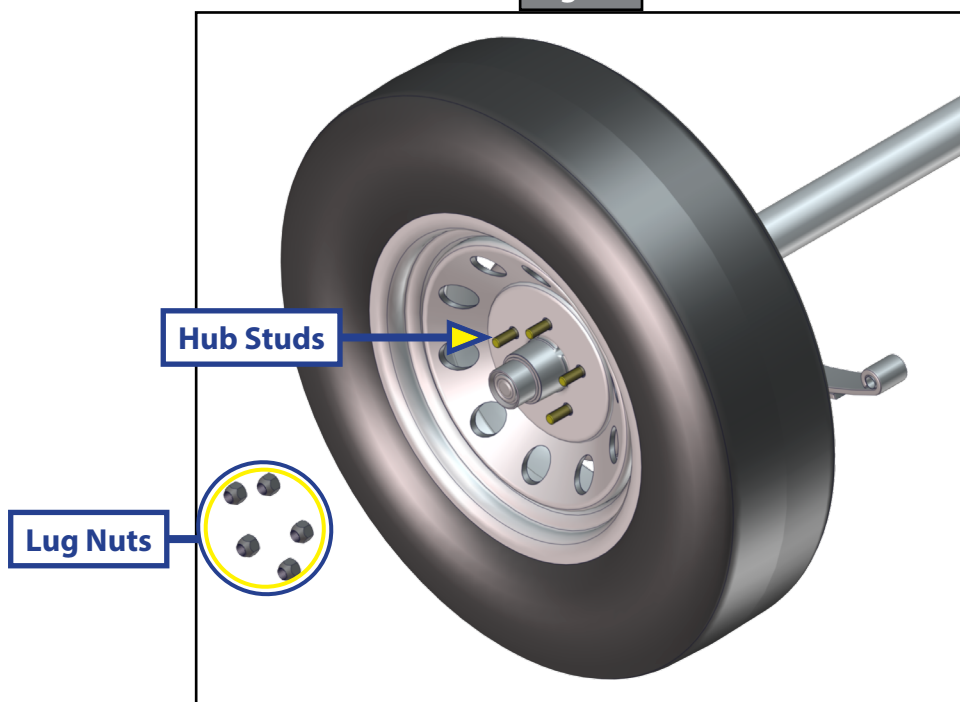


Fig. 15





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Wheel Torque Requirements

It is extremely important to apply and maintain proper wheel mounting torque on your trailer axle. Torque wrenches assure the proper amount of torque is being applied to a fastener. Use no other method to torque fasteners.

⚠ WARNING

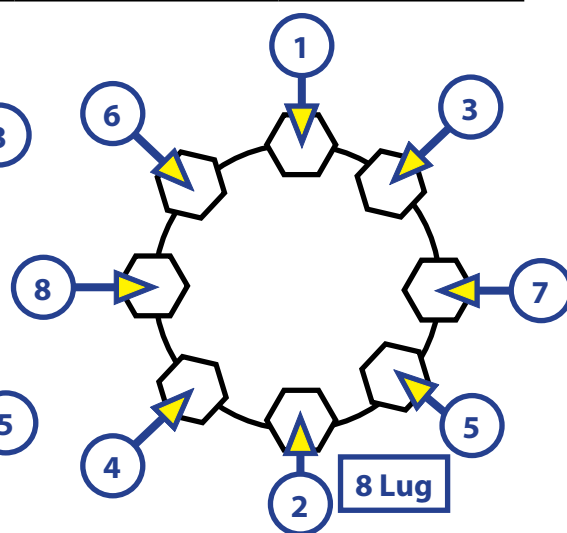
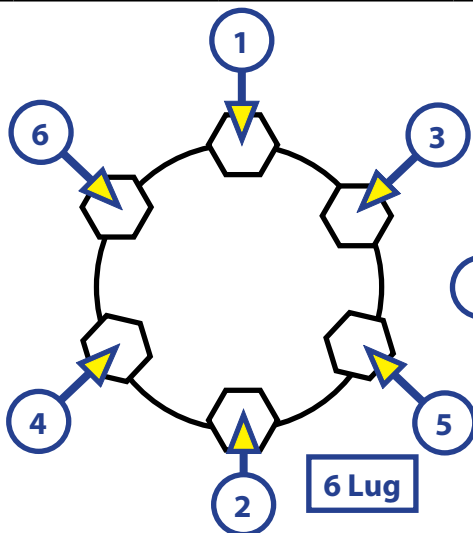
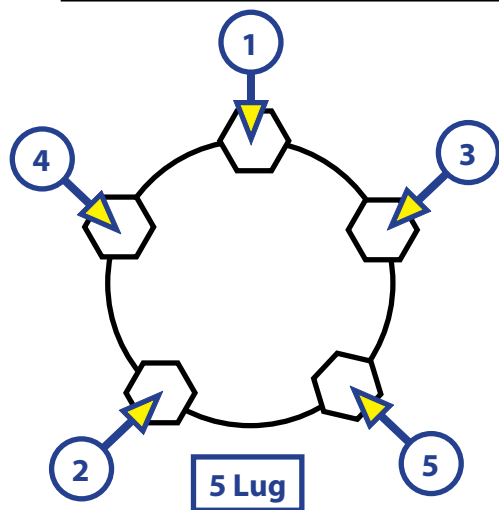
Proper and accurate torque MUST be maintained to prevent wheels from loosening, studs from cracking and/ or breaking or other possible hazardous breakage resulting in death or serious injury.

Be sure to use only the fasteners matched to the cone angle of your wheel (usually 60° or 90°). The proper procedure for attaching your wheels is as follows:

1. Start all bolts or nuts by hand to prevent cross threading.
2. Tighten bolts or nuts in the following sequence (see Wheel Torque Requirement Chart below, Fig. 16).
3. Tightening fasteners should be done in stages. Follow the recommended sequence depicted below. Tighten fasteners per wheel torque requirements chart below.
4. Wheel nuts/bolts should be torqued before first road use and after each wheel removal. Check and re-torque after 10 and 25 miles and again at 50 miles. A periodic check during regular service is recommended.

Fig.16

Wheel Torque Requirement Chart				
Wheel Size	Stud Size	Torque Sequence		
		1st Stage	2nd Stage	3rd Stage
14"	1/2"	20-25 ft-lb	50-60 ft-lb	90-120 ft-lb
15"	1/2"	20-25 ft-lb	50-60 ft-lb	90-120 ft-lb
16"	1/2"	20-25 ft-lb	50-60 ft-lb	90-120 ft-lb
16.5" x 6.75"	1/2"	20-25 ft-lb	50-60 ft-lb	90-120 ft-lb
16"	9/16"	20-25 ft-lb	60-70 ft-lb	120-130 ft-lb
16.5" x 6.75"	9/16"	20-25 ft-lb	60-70 ft-lb	120-130 ft-lb
16" Dual and 17.5" Cone Nut	5/8"	50-60 ft-lb	100-120 ft-lb	190-210 ft-lb
16" Dual and 17.5" Flange Nut	5/8"	50-60 ft-lb	150-200 ft-lb	275-325 ft-lb
14.5" Demount	1/2"	Tighten sequentially to 85-95 ft-lb		





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