

HWY-05-M-H035
Wilmer, Texas

ATTACHMENT #10

Prevost - Maintenance Manual for H3-41, H3-45 and VIP

(3 pages)

DET

MAINTENANCE MANUAL

H3-41, H3-45, VIP



Using a calibrated torque wrench, tighten wheel nuts to 450-500 ft-lbf (610 - 680 Nm) of torque. Do not use power tools or long bars for tightening. Tighten wheel nuts alternately as shown in figure 2.

Note: Tightening should not be done immediately after prolonged braking or when wheel ends are hot.

Check wheel nut torque at every 100 miles (160 km) for 500 miles (800 km) after fitting wheels. Let cool before checking. If any relaxation of the initial 450-500 ft-lbf (610 - 680 Nm) of torque has occurred, retighten. Relaxation of initial torque may occur because of the "bedding down" of the hub and wheel surfaces.

Note: Torque relaxation occurs when wheel ends are hot but should revert to original setting when cool. Retightening when hot will produce a higher torque reading than recommended.

7.1 CARE OF WHEELS

Check for cracks in wheels, especially around the fixing holes, studs, nuts and washers. If in doubt, renew.

Do not simply retighten very loose wheel fixings or wheels that are continually becoming loose. Find out why they are loose and whether any damage has been caused.

Use trained personnel and keep records of all attention to wheels and fixings, including which parts were renewed and when.

8. FRONT AND TAG AXLE WHEEL HUBS

Two types of wheel hubs are available. One is lubricated with grease and the other is lubricated with oil.

8.1 GREASE LUBRICATED WHEEL HUBS

Front and tag axle wheel hubs and hub bearings need to be cleaned and greased every 50,000 miles (80 000 km) or once a year, whichever comes first.

8.1.1 Recommended Lubricants

A good quality lithium-base grease NLGI No. 1 or No. 2 is recommended.

8.1.2 Hub Bearing Inspection

An inspection should be made after the first 3,000 miles (4 800 km) and then at intervals of 25,000 miles (40 000 km). When the wheels are raised, they should revolve quite freely without roughness.

Hub bearings should have a slight end movement within the limits of 0.0005 to 0.002" (0.0127 to 0.0508 mm) when rocked forward and backwards on axle stub. Refer to "Parts and Service Manual for GKN axles", annexed to Section 10, "FRONT AXLE"

8.2 OIL LUBRICATED WHEEL HUBS

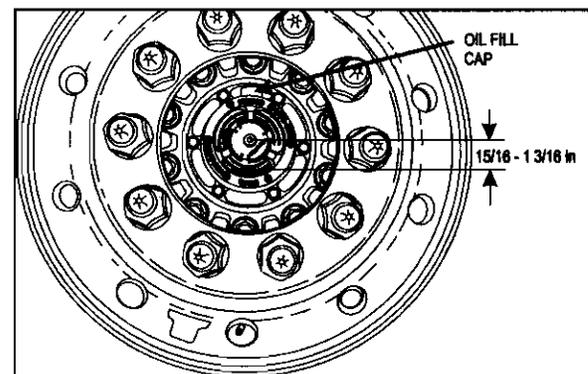


FIGURE 6: OIL FILL CAP

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8.2.1 Hub Bearing Maintenance

If applicable, the front and tag axle wheel hubs use oil lubrication that eliminates periodic grease repacking of the hubs. A sight glass is provided for convenient verification of oil level. Oil level should be checked daily and must be maintained between the "ADD" and "FULL" level mark in the sight glass or between 15/16" and 1 3/16" from wheel centerline (23 to 30 mm). If oil is not visible through the sight glass, general purpose gear lubricant SAE 85W/140 (API spec. GL5) must be added by removing the oil fill cap on side of hub to bring oil to the correct level. To check oil level after vehicle has been driven, wait at least 15 minutes to ensure that oil has settled.

Note: For vehicles equipped with Independent Front Suspension, refer to Section 16 "SUSPENSION".