



Harsco Track Technologies

Harsco

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SERVICE BULLETIN

MAINTENANCE OF WAY EQUIPMENT

DATE: 12 - 2003

BULLETIN NO: 03-030

TITLE: Disc-Lock Nut Torque Information

RATING:

ALERT
(Potential Problem)

INFORMATION
(Action Is Optional)

DIRECTIVE
(Action Is Required)

PRODUCT IMPROVEMENT
(Enhance Product)

PRODUCT SERIES / MODEL: All light-duty vehicle applications with Wheel Modifications that use the 9/16-18 Disc-Lock Nut (HTT Part No. 179141) or the 14 mm x 1.5 Disc-Lock Nut (HTT Part No. 184106) to secure the vehicle wheels to the vehicle hub or wheel spacer. Guide Wheel Unit Applications Effected: Series 0307, HR0307 Series A, HR0307 Series B and HR1000 Series A HY-RAIL® Guide Wheel Equipment.

SERIAL NO: Not Applicable

SUMMARY: Harsco Track Technologies' supplier of Disc-Lock Nuts has changed the coating on the Disc-Lock Nuts from a zinc coating to a Magni coating to increase corrosion resistance. The coating change has had a direct impact on the torque specifications for the Disc-Lock Nuts. The Magni coated Disc Lock Nuts may be present on any Wheel Modification applied after November 1, 2003 or any Disc-Lock Nuts ordered as repair parts after November 1, 2003.

OPERATIONAL IMPACT: Using the current torque specifications with the new Disc-Lock Nuts can create an over stressed condition on the wheel studs. This may result in stud weakening or even stud failure.

ACTION: Use this information to inspect and determine if the Wheel Modification on your vehicle has the Magni coated Disc-Lock Nuts. Follow the instructions in this Service Bulletin for inspection and to determine corrective action to take, which may include replacing wheel studs.

CONTACT: If you have any questions or if we can be of any service, please contact the HY-RAIL® Guide Wheel Equipment Department at the Fairmont, MN facility (507) 235-7112.

Safety Information



■ FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO DISABLE ENERGY SOURCES WHEN PERFORMING MAINTENANCE, MAKING ADJUSTMENTS OR REPAIRS TO THE VEHICLE OR EQUIPMENT. FAILURE TO HEED THIS WARNING COULD RESULT IN SEVERE BODILY INJURY.

Determine Disc-Lock Nut Type - See Figure 1

1. The previously supplied Disc-Lock Nut (1) with the zinc coating has a shiny appearance.

Disc-Lock Nut Description:

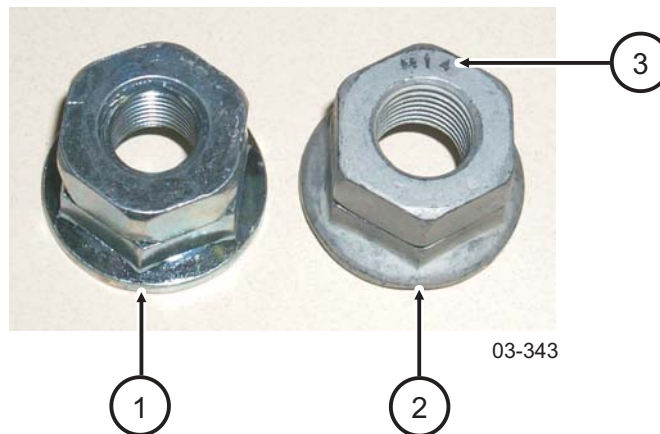
9/16"-18 - HTT Part No. 179141
14 mm x 1.5 - HTT Part No. 184106

2. The currently supplied Disc-Lock Nut (2) with the Magni coating has a dull appearance and typically has the nut size "9-16" or "M14" (3) imprinted on the face of the nut.

Disc-Lock Nut Description:

9/16"-18 - HTT Part No. 201751
14 mm x 1.5 - HTT Part No. 201752

FIGURE 1
DISC-LOCK NUTS



Action To Be Taken

1. If all of the Disc-Lock Nuts used on the Wheel Modification on your vehicle are the zinc coated Disc-Lock Nuts, no action is required. Continue to use the torque specification of 175 ft-lb for the 9/16"-18 Disc-Lock Nut and 180 - 200 ft-lb for the 14 mm x 1.5 Disc-Lock Nut when the nuts are torqued.
2. If any of the Disc-Lock Nuts used on the Wheel Modification on your vehicle are the Magni coated Disc-Lock Nuts, the following action is required.
 - a. Remove the vehicle from service immediately.
 - b. Remove the Disc-Lock Nuts from the from the wheels. Remove the wheels from the vehicle.
 - c. Remove all of the wheel studs from the vehicle hubs and / or the wheel spacers. Replace the wheel studs with new wheel studs. Contact Harsco Track Technologies for information on obtaining the correct wheel studs.
 - d. Re-mount the wheels to the vehicle using the Magni coated Disc-Lock Nuts:
9/16"-18 - HTT Part No. 201751. Torque the Disc-Lock Nuts to 140 ft-lb.
14 mm x 1.5 - HTT Part No. 201752. Torque the Disc-Lock Nuts to 140 ft-lb.

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