



# Harsco Track Technologies

Harsco

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## SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

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**DATE:** 3 - 2009

**BULLETIN NO:** 08-004A

**TITLE:** Axle Retainer Inspection and 3418798 Axle Retainer Service Group

**RATING:**

<input type="checkbox"/>	<b>ALERT</b> (Potential Problem)	<input type="checkbox"/>	<b>INFORMATION</b> (Action Is Optional)
<input checked="" type="checkbox"/>	<b>DIRECTIVE</b> (Action Is Required)	<input type="checkbox"/>	<b>PRODUCT IMPROVEMENT</b> (Enhance Product)

**PRODUCT SERIES / MODEL:** HR1500 Series B3 HY-RAIL® Guide Wheel Units  
manufactured from September 2007 to present.

**SERIAL NO:** N/A

**SUMMARY:** It has come to the attention of Harsco Track Technologies that the cable used to secure the guide wheel unit axle assembly to the upper structure may be fraying and / or breaking. To correct this potential problem, HTT has made a change in the design of the components used to retain the axle assembly to the upper structure. The new design uses a metal strap that is placed over the cross tube on the upper structure and secured to the axle assembly using the existing stub axle mounting bolts.

**OPERATIONAL IMPACT:** A broken axle assembly retaining cable(s) may result in one and / or both ends of the axle assembly separating from the upper structure. This will normally occur when the unit is raised from the rail position. Be aware that if one or both retaining cables are broken, the axle assembly may separate from the upper structure while the vehicle is traveling on the highway.

**ACTION:** The axle assembly retaining cables must be inspected. If any cable is found to be frayed or cracked, the vehicle must be removed from service and taken to an approved HY-RAIL® guide wheel equipment repair facility for repairs. If any cable is found to be broken, the vehicle must be removed from service. The axle assembly must be secured to the upper structure with a chain, cable or other device to prevent it from separating from the upper structure. The vehicle must then be taken to the nearest approved HY-RAIL® guide wheel equipment repair facility for repairs.

**CONTACT:** If you have any questions or if we can be of any service, please contact the Fairmont, MN facility, HY-RAIL® Guide Wheel Equipment Service Department at (507) 235-7212 or to order parts, contact the Parts Department at (507) 235-7143 or (507) 235-7191.

### Safety Information

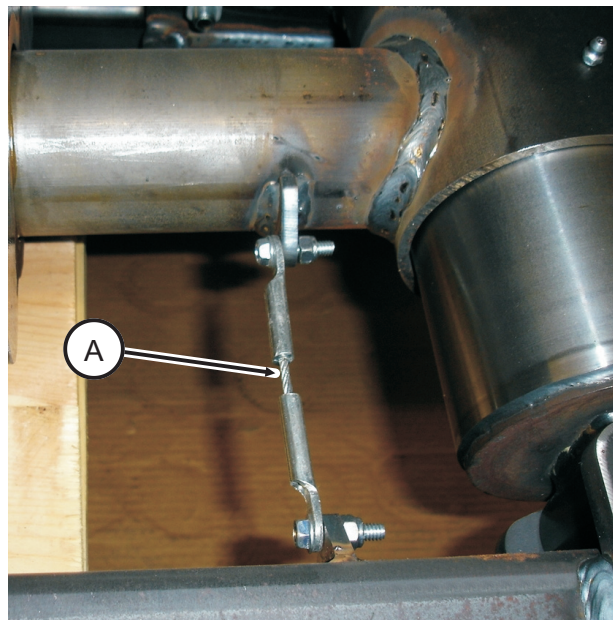


■ FOLLOW APPLICABLE LOCKOUT - TAGOUT PROCEDURE TO DISABLE ENERGY SOURCES WHEN PERFORMING MAINTENANCE, MAKING ADJUSTMENTS OR REPAIRS TO THE VEHICLE OR EQUIPMENT. FAILURE TO HEED THIS WARNING COULD RESULT IN SEVERE BODILY INJURY.

### Inspecting The Axle Assembly Retaining Cables - See Figure 1

1. Lower the unit until the guide wheels are just resting in the rail or on the floor.
2. Inspect the cables (A) for breaks, frying, excessive rust or distortion. If any of these conditions are found, the 3418798 Axle Retainer Service Group must be applied to the unit.

FIGURE 1  
AXLE RETAINING CABLE



### Installing The Axle Retainer Straps - See Figure 2

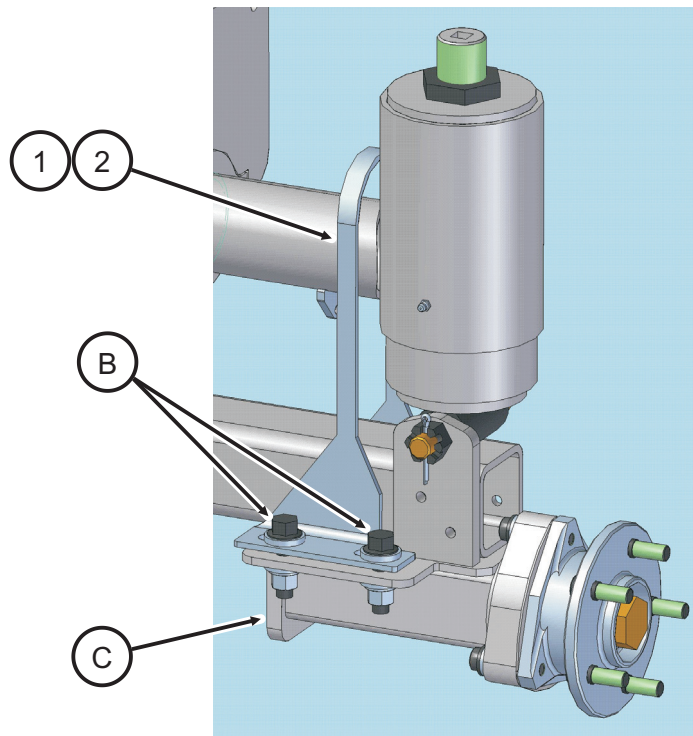
**Note:** Do not loosen or remove all four stub axle securing bolts (B) at the same time as this will cause the stub axle to fail to maintain its alignment resulting in having to do a complete re-alignment of the guide wheel unit.

1. On one side of the axle, front or rear, loosen and remove the two stub axle retaining bolts (B).

**Installing The Axle Retainer Straps - See Figure 2**

2. Place the axle retaining strap (1 - front or 2 - rear) over the cross tube and align the slots in the strap with the holes in the axle / stub axle (C). Install the bolts, washers and nuts securing the strap to the axle assembly.
3. Slide the strap outward in its slots, towards the spring cell. Tighten the fasteners enough so that the stub axle will not be able to move around.
4. On the other side of the axle, move the strap away from the axle to access the two stub axle retaining bolts (B). Loosen and remove stub axle retaining bolts (B).
5. Move the strap into place aligning the slots in the strap with the holes in the axle / stub axle (C). Install the bolts, washers and nuts securing the strap to the axle assembly and tighten.
6. Torque all four fasteners to 110 lb-ft (150 N-m).
7. Repeat the procedure to install the strap on the other end of the guide wheel unit.
8. After both straps are installed, raise and lower the guide wheel unit to ensure clearance between the strap and vehicle components. If it is necessary to move the strap in or out, make sure to move only one side at a time to ensure stub axle alignment is maintained.
9. See Figure 1. After completing the installation of the axle retainer straps, remove the old axle retaining cables (A).

FIGURE 2  
INSTALLING AXLE RETAINING STRAP



**3418798 Axle Retainer Service Group**

*Note: Order one group for a front and rear guide wheel unit pair.*

ITEM	PART NO	DESCRIPTION	QTY
	3418798	AXLE RETAINER SERVICE GROUP .....	1
1	3417873	Axle Retainer Strap - Front Unit (long) .....	2
2	3417874	Axle Retainer Strap - Rear Unit (short) .....	2

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