



Harsco Track Technologies

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SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

DATE: 9 - 2007

BULLETIN NO: 07-009

TITLE: HR1500 Series B Rubber Tread Guide Wheels

RATING:

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

PRODUCT SERIES / MODEL: HR1500 Series B HY-RAIL® Guide Wheel Units.

SERIAL NO: N/A

SUMMARY: It has been determined that the maximum load capacity on the HR1500 Series B rubber tread guide wheel (HTT Part #198510) is 700 lbs (318 kg). The use of the rubber tread guide wheel in some applications may have resulted in the overloading of the rubber tread guide wheels. Use the information provided in this Service Bulletin to determine if the guide wheels are overloaded and if so, the corrective action to take.

OPERATIONAL IMPACT: Overloading of the rubber tread guide wheels can cause the rubber tread to separate from the aluminum wheel which could result in damage to the guide wheel unit, vehicle and possible derailment of the vehicle.

ACTION: Weigh the load on each rubber tread guide wheel using the guide wheel load jack (HTT Part #3410944). If the load on the guide wheel is 700 lbs (318 kg) or less, the guide wheel load is acceptable. If the load on the guide wheel is greater than 700 lbs (318 kg), the guide wheel load must be reduced. Follow the instructions in this service bulletin to check and correct the guide wheel load.

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 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.**

Checking Guide Wheel Load

1. Apply the parking brake. Lower and lock the guide wheels in the rail position. Stop the vehicle's engine.
2. The guide wheel load can be checked using the HTT # 3410944 Wheel Weighing Jack. Do not use any other jack to check the guide wheel load. The use of an other jack will result in incorrect guide wheel load information.
3. Place the jack under the square tube as close to the guide wheel as possible. Jack the guide wheel up until the guide wheel just clears the top of the rail. Note the gauge reading. The gauge reading indicates the pounds of load on the guide wheel.
4. With the vehicle at curb weight, the recommended guide wheel load is 500 lbs \pm 25 lbs (227 kg \pm 11 kg) per guide wheel. The recommended guide wheel load must also be equal on the left and right sides of the front or rear guide wheel unit.
5. The maximum rated load on the front and / or rear guide wheel unit equipped with rubber tread guide wheels is 1,400 lbs (635 kg) or 700 lbs (318 kg) maximum per guide wheel.
6. If the load exceeds the maximum rated load capacity of the front and / or rear guide wheel unit or the maximum rated load capacity of any guide wheel, the load must be redistributed or some of the load removed. Never operate the vehicle on track if the load on the front and / or rear guide wheel unit exceeds the maximum rated load capacity.
7. The front and / or rear guide wheel unit spring cells are adjustable. See Adjusting Guide Wheel Load.

Adjusting Guide Wheel Load - See Figure 1

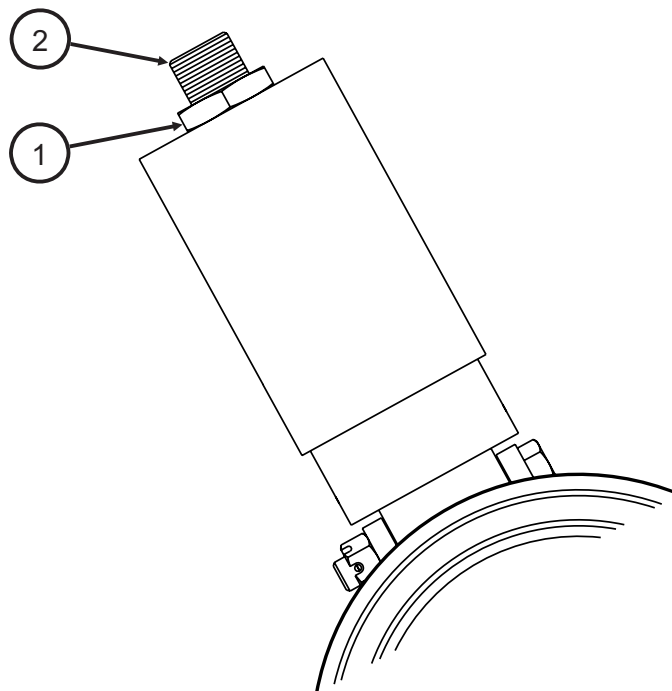
1. With the vehicle at curb weight the spring cell must be set to the recommended guide wheel load of 500 lbs \pm 25 lbs (227 kg \pm 11 kg) per guide wheel. The recommended guide wheel load must also be equal on the left and right sides of the front or rear guide wheel unit.
2. To adjust the spring cell load, raise the guide wheels and let them rest on the rails. Do not adjust the spring cell with any load on the guide wheels.

Loosen lock nut (1). Insert a 1/2 inch drive ratchet into the 1/2 inch socket in the adjusting stud (2). Turn the adjusting stud clockwise to increase the load on the guide wheel or counter-clockwise to decrease the load on the guide wheel. Tighten lock nut (1).

Adjusting Guide Wheel Load - See Figure 1

3. Lower and lock the guide wheels in the rail position. See Checking Guide Wheel Load. Use the Wheel Weighing Jack to determine the load on the guide wheel.
4. Repeat Steps 1 through 3 until the guide wheel unit is set at the recommend guide wheel load. The recommended guide wheel load must be equal on the left and right sides of the front or rear guide wheel unit.
5. If the spring cells cannot be adjusted to the recommended guide wheel load or to less than the maximum rated load of 700 lbs (318 kg) per guide wheel, the guide wheel unit must be repositioned in a different set of mounting holes.
6. If the load on the rubber tread guide wheels cannot be reduced to 700 lbs (318 kg) or less by adjusting the spring cells, adjusting the vehicle suspension (adding leaf springs, coil springs, axle lift block kits, etc.) or re-positioning the unit, the rubber tread guide wheels need to be replaced with steel tread guide wheels.
7. The steel tread guide wheel (HTT Part #198690) has a maximum rated load capacity of 1500 lbs (680 kg). The steel tread guide wheels can be purchased by contacting the HY-RAIL® Parts Department at Harsco Track Technologies.

FIGURE 1
ADJUSTING GUIDE WHEEL LOAD



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