



# Harsco Track Technologies

Harsco

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## SERVICE BULLETIN

### MAINTENANCE OF WAY EQUIPMENT

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**DATE:** 8 - 2006

**BULLETIN NO:** 06-006

**TITLE:** 3410504 BRAKE LINE MODIFICATION 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:** 2005 through 2007 Ford F250 and F350 4 X 4 Pickups.

**SERIAL NO:** N/A

**SUMMARY:** This Service Bulletin provides parts identification and instructions for applying the 3410504 Brake Line Modification Group to the vehicle.

**OPERATIONAL IMPACT:** The application of the wheel modification group to the vehicle may cause the front wheels to come in contact with the brake lines due to the off-set of the wheels. The front brake lines must be modified and secured in place to provide sufficient clearance between the brake lines and the front wheels.

**ACTION:** Follow the procedures in this Service Bulletin to install the 3410504 Brake Line Modification Group to the vehicle.

**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.**

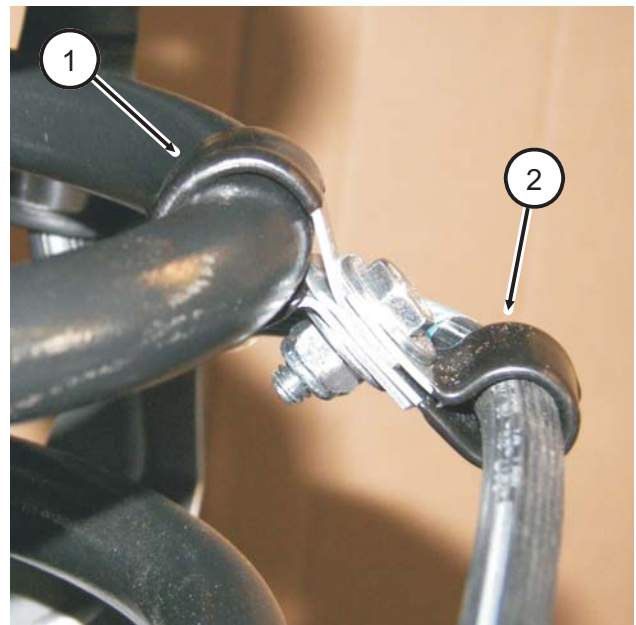
**3410504 Brake Line Modification Group - See Figures 1, 2, 3 and 4**

1. Raise the vehicle on a shop hoist to a comfortable working height. Any hoist used must be rated to lift the weight of the vehicle. Remove the front wheels.
2. If a hoist is not available, place the vehicle on a solid level surface. Place the automatic transmission in park or the manual transmission in reverse. Apply the parking brakes. Stop the vehicle engine. Chock the vehicle rear wheels. Using a jack rated to lift the weight of the vehicle, jack up one front wheel. Remove the front wheel.
3. Using a tubing bender, bend the brake line (A) at the brake caliper a maximum of 15° away from the wheel as necessary to obtain a minimum of 3/8 inch (9.5mm) clearance between the brake line and the vehicle wheel when installed.
4. Install P-Clamp (1) on coil spring. Make sure it is oriented as shown in Figure 2. Install P-Clamp (2) on brake line. Make sure it is oriented as shown in Figure 2.
5. Connect both P-Clamps together using two Wrought Washers (3), Cap Screw (4) and Elastic Stop Nut (5). Tighten the fasteners.
6. P-Clamp (1) should be tight on the coil spring. P-Clamp (2) should be snug on the brake line but not over tight to prevent the brake line from flexing.
7. Install the vehicle wheel on the hub. Torque the lug nuts to the correct torque specifications for the application. Repeat the procedure to modify the brake line on the other front wheel.

FIGURE 1  
BRAKE LINE MODIFICATION



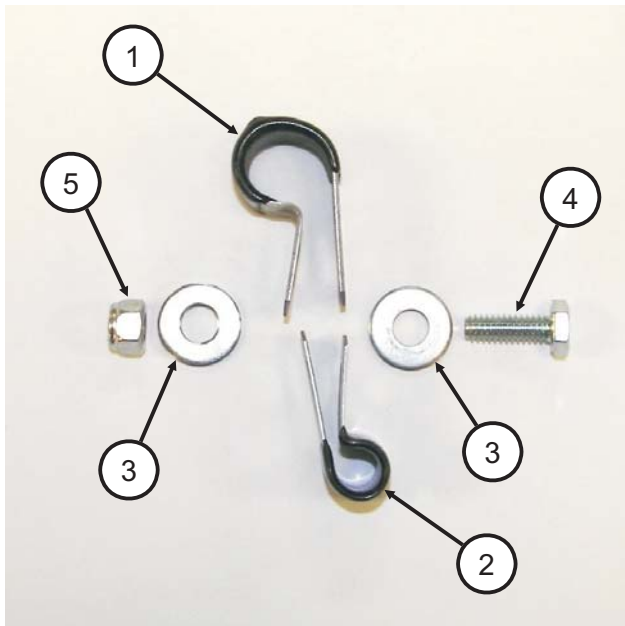
FIGURE 2  
BRAKE LINE MODIFICATION



**3410504 Brake Line Modification Group** - See Figures 1, 2, 3 and 4

8. After completing the procedure on both front wheels, lower the vehicle to the ground. Verify that the brake line tubing and hoses clear the vehicle wheel by a minimum of 3/8 inch (9.5 mm) when the wheels are set straight ahead and also when the wheels are turned to the extreme right and left positions. Make adjustments as necessary to obtain the minimum clearance.

**FIGURE 3  
BRAKE LINE MODIFICATION GROUP**



**FIGURE 4  
BRAKE LINE MODIFICATION GROUP**



ITEM	PART NO	DESCRIPTION	QTY
	3410504	BRAKE LINE MODIFICATION GROUP.....	1
1	F019242	P-Clamp, 5/8" .....	2
2	F019582	P-Clamp, 3/8" .....	2
3	F001106	Wrought Washer, 1/4".....	4
4	F002355	Cap Screw, 1/4-20 x 3/4" Hex Hd .....	2
5	F013588	Elastic Stop Nut, 1/4"-20.....	2

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