



Harsco Track Technologies

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SERVICE BULLETIN

MAINTENANCE OF WAY EQUIPMENT

DATE: 10 - 2006

BULLETIN NO: 06-007

TITLE: 3410544 BRAKE LINE MODIFICATION GROUP

RATING:

ALERT
(Potential Problem)

INFORMATION
(Action Is Optional)

DIRECTIVE
(Action Is Required)

PRODUCT IMPROVEMENT
(Enhance Product)

PRODUCT SERIES / MODEL: 2005 through 2007 Ford F250 and F350 4 X 2 Pickups.

SERIAL NO: N/A

SUMMARY: This Service Bulletin provides parts identification and instructions for applying the 3410544 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 3410544 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

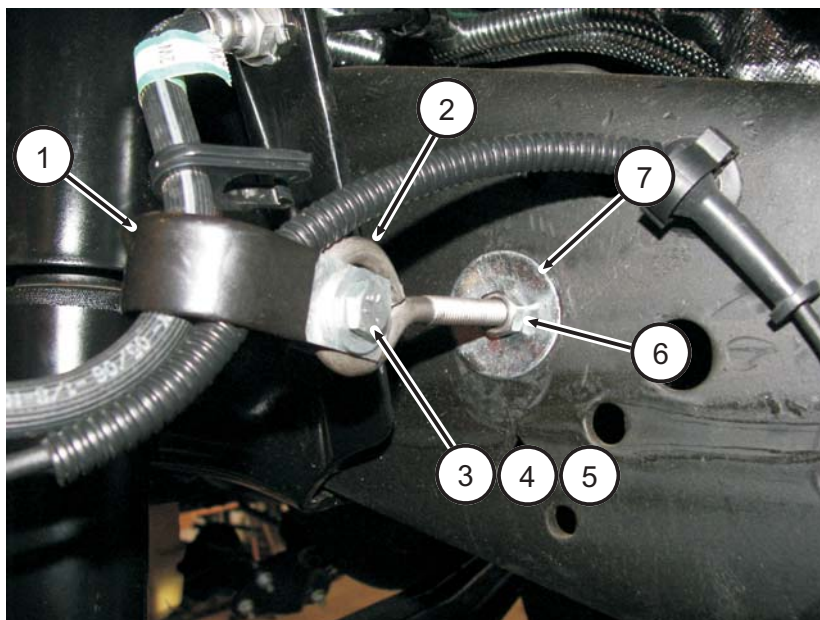


■ **FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO DISABLE ENERGY SOURCES WHEN PERFORMING MAINTENANCE, MAKING ADJUSTMENTS OR REPAIRS TO THE VEHICLE OR EQUIPMENT. FAILURE TO HEED THIS WARNING COULD RESULT IN SEVERE BODILY INJURY.**

3410544 Brake Line Modification Group - See Figures 1 and 2

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 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) over the brake line and ABS cable. Make sure it is oriented as shown in Figure 1.
5. Locate eye-bolt (2) in the opening on the p-clamp. Connect the p-clamp and the eye-bolt together using two Wrought Washers (3), Cap Screw (4) and Elastic Stop Nut (5). Do not over tighten the fasteners as the p-clamp must be free to swivel in the eye-bolt.
6. Thread one 5/16" nut (6) and slide one fender washer (7) on eye-bolt (2).
7. Install the eye-bolt into an existing hole in the vehicle frame and locate a second fender washer, one 5/16" lock washer and a second 5/16" nut on the eye-bolt on the inside of the frame. Adjust the 5/16" nuts on the eye-bolt to position the brake line and ABS cable to prevent contact with the vehicle wheel. Additional adjustment may be required after the wheel is mounted on the vehicle. Tighten the 5/16" nuts to secure the eye-bolt.

FIGURE 1
BRAKE LINE MODIFICATION

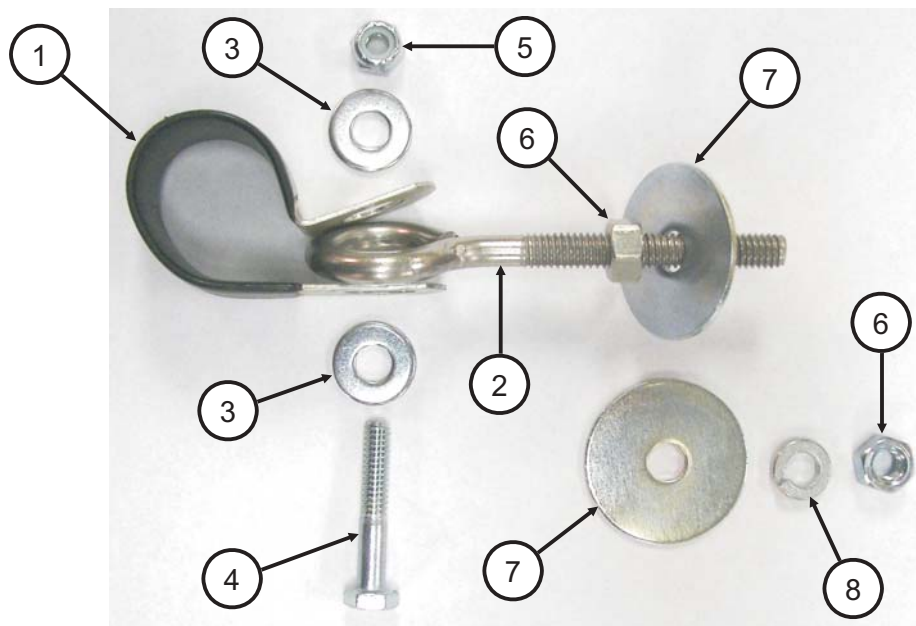


3410544 Brake Line Modification Group - See Figures 1 and 2

8. 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.

9. After completing the procedure on both front wheels and with the vehicle wheels still raised, 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. Lower the vehicle to the ground and check the clearance again with the wheels 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 2
BRAKE LINE MODIFICATION GROUP



ITEM	PART NO	DESCRIPTION	QTY
	3410544	BRAKE LINE MODIFICATION GROUP.....	1
1	F014800	P-Clamp	2
2	3410536	Eye-Bolt, 5/16-18 x 4".....	2
3	F001106	Wrought Washer, 1/4".....	4
4	F009667	Cap Screw, 1/4-20 x 1-1/2" Hex Hd	2
5	F013588	Elastic Stop Nut, 1/4"-20.....	2
6	F007021	Hex Nut, 5/16"-18 GR 5	4
7	3410537	Fender Washer, 5/15 x 1.50 O.D.....	4
8	F001100	SAE Lock Washer, 5/16"	2

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