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RAIL

SERVICE BULLETIN

MAINTENANCE OF WAY EQUIPMENT

DATE: 8-23-2012 **BULLETIN NO:** 12-015

TITLE: CONVEYOR HYDRAULIC MOTOR SHAFT LENGTH

RATING:

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

PRODUCT SERIES / MODEL: P811 - NTC - TRT909 - PONY EXPRESS

SERIAL NO: All Conveyor Hydraulic Motors #0-3324001-0-01 or #0-3324001-0-07

SUMMARY: The conveyor hydraulic motors #0-3523011-0-01 and #0-3523011-0-07 had their design changed by our supplier, which increased the drive shaft length. To remedy this, a spacer #C0715Y01 was installed between the motor and speed reducer #0-3523011-0-01. It has been discovered that the concentricity between the two components is not supported by the spacer which could lead to premature component wear or failure. Harsco Rail and the supplier have now changed both of these conveyor motors so the drive shaft is the correct length for the proper protrusion into the speed reducer. Any new motor with the correct drive shaft length DOES NOT require the spacer to be installed between the motor and speed reducer.

OPERATIONAL IMPACT: Any conveyor system which is currently operating trouble-free does not need to have the hydraulic motor changed out until motor replacement is required under normal maintenance or for repair.

ACTION: When a hydraulic motor is being replaced on a conveyor, follow the instructions in this Service Bulletin to check the drive shaft length before installing the motor. If the drive shaft length is not correct, the hydraulic motor should NOT be installed. Contact Harsco Rail for information on replacing the motor with a new motor having the correct drive shaft length.

CONTACT: If you have any questions or if we can be of any service, please contact:
Marion Smith or Harsco Rail Service Department
Columbia, SC Facility Columbia, SC Facility
(803) 822-7485 (803) 822-7546
msmith@harsco.com

SAFETY INFORMATION

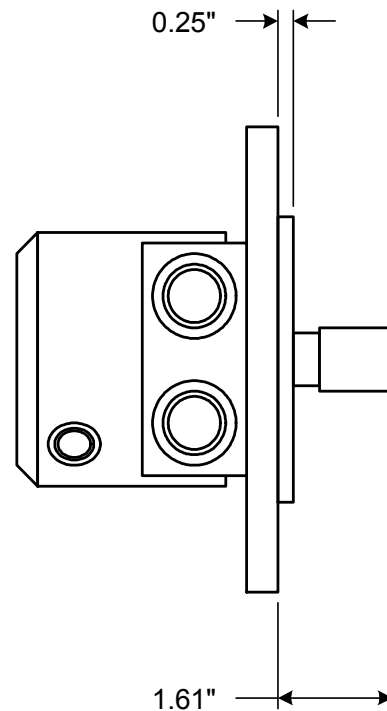
- **FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO REMOVE MACHINE FROM ALL ENERGY SOURCES. FAILURE TO COMPLY COULD RESULT IN SEVERE BODILY INJURY.**

CHECKING NEW HYDRAULIC MOTOR DRIVE SHAFT LENGTH - See Figure 1

1. Before installing the new hydraulic motor (#0-3523011-0-01 or #0-3523011-0-07) on the machine, check the hydraulic motor drive shaft length by measuring the distance from the face of the mounting flange to the end of the drive shaft. This measurement must be 1.61 inches.
2. If the measured drive shaft length is correct, the hydraulic motor can be installed on the machine. Go to Installing New Hydraulic Motor On Machine.
3. If the measured drive shaft length is not correct, the hydraulic motor should NOT be installed. Contact Harsco Rail for information on replacing the motor with a new motor having the correct drive shaft length.

Harsco Rail Service Department
Columbia, SC Facility
(803) 822-7546

FIGURE 1
CORRECT HYDRAULIC MOTOR
DRIVE SHAFT LENGTH



INSTALLING NEW HYDRAULIC MOTOR ON MACHINE - See Figures 2 and 3

1. Follow applicable Railroad Lockout - Tagout Procedure to remove machine from all energy sources when performing maintenance, or making adjustments or repairs to machine.
2. Be sure to catch all hydraulic fluid in a leak-proof container. Mark the hydraulic hoses in the existing hydraulic motor ports for proper re-assembly. Disconnect the hydraulic hoses from the existing hydraulic motor and cap or plug the ends of the hydraulic hoses and the motor ports.
3. Remove the two cap screws (1) and pull the existing hydraulic motor (2) and spacer (3) out of the speed reducer (4).
4. Slide the new hydraulic motor (5) into the speed reducer (4) and verify that the motor flange is tight against the speed reducer (4). DO NOT INSTALL the spacer (3) between the new hydraulic motor (5) and speed reducer (4). Then install the two cap screws (1) and tighten securely.
5. If needed, remove the fittings from the existing hydraulic motor (2) ports and install in the new hydraulic motor (5) ports. Remove the caps or plugs from the ends of the hydraulic hoses and connect to the proper ports of the new hydraulic motor (5). Tighten the hydraulic hose connections securely.

FIGURE 2
EXISTING HYDRAULIC MOTOR

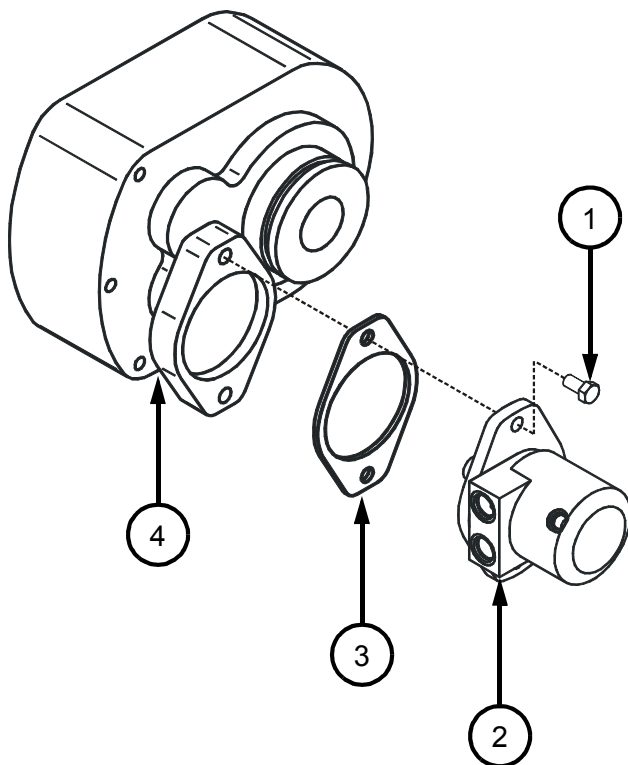
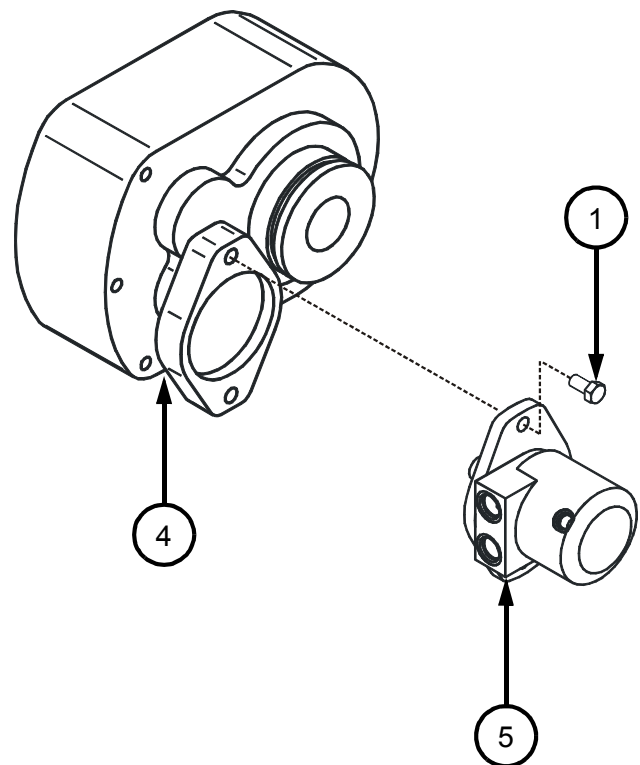


FIGURE 3
NEW HYDRAULIC MOTOR



INSTALLING NEW HYDRAULIC MOTOR ON MACHINE - See Figures 2 and 3

6. After installation of the new hydraulic motor, **MAKE SURE** all personnel are clear of the machine and conveyor. Start the engine and pressurize the hydraulic system on the conveyor.
7. Check the hydraulic motor and hose connections for hydraulic leaks. **DO NOT** use your bare hands to check for hydraulic leaks. Wear gloves and use a piece of cardboard, wood, etc.
8. Start the conveyor and check for proper operation. If the conveyor operates in the reverse direction, the hydraulic hoses are reversed and must be changed to the opposite motor ports.

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415 North Main Street
Fairmont, MN
56031-1837
Tel: (507) 235-3361
Fax: (507) 235-7370

2401 Edmund Road, Box 20
Cayce-West Columbia, SC
29171-0020
Tel: (803) 822-9160
Fax: (803) 822-7471

200 South Jackson Road
Ludington, MI
49431
Tel: (231) 843-3431
Fax: (231) 843-1644

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