



www.harscorail.com

SERVICE BULLETIN

MAINTENANCE OF WAY EQUIPMENT

DATE: 8-2018

BULLETIN NO: 18-004

TITLE: M12 Receptacle Inspection and Replacement

RATING:

DIRECTIVE
(Action Is Required)

ALERT
(Potential Problem)

INFORMATION
(Action Is Optional)

PRODUCT IMPROVEMENT
(Enhance Product)

PRODUCT SERIES / MODEL: MARK IV Tampers

SERIAL NO:

7114778	CLEVELAND CLIFFS
7114788	RELAM
7114798	RELAM
7114808	RELAM
7114818	CANADIAN NATIONAL
7114828	CANADIAN NATIONAL
7114848	RELAM
7114868	RELAM
7114878	RELAM
7114918	RELAM
7116768	CITY OF EDMONTON

SUMMARY: Harsco Rail is aware of a quality issue with some vendor supplied M12 receptacles that mount to Power Distribution Box enclosure. The defective M12 receptacles have an inadequate amount of potting material which allows the electrical wire insulation to pull out of the potting material and expose the bare copper wire. The replacement M12 receptacles, Harsco Rail # 5055864, have more potting material to help hold the wire insulation. Follow the instructions in this Service Bulletin to inspect and replace the M12 receptacles.

OPERATIONAL IMPACT: The exposed wires on the defective M12 receptacles may cause burnt wiring, shorted circuits / devices, tripped circuit breakers, etc., resulting in machine downtime.

ACTION: Inspect the M12 receptacles for wire insulation that is pulled away from the potting material and exposed copper wires. If defective receptacles are found, replace them with Harsco Rail # 5055864.

CONTACT: Harsco Rail Service Department
Columbia, SC Facility
(803) 822-9160

Safety Information

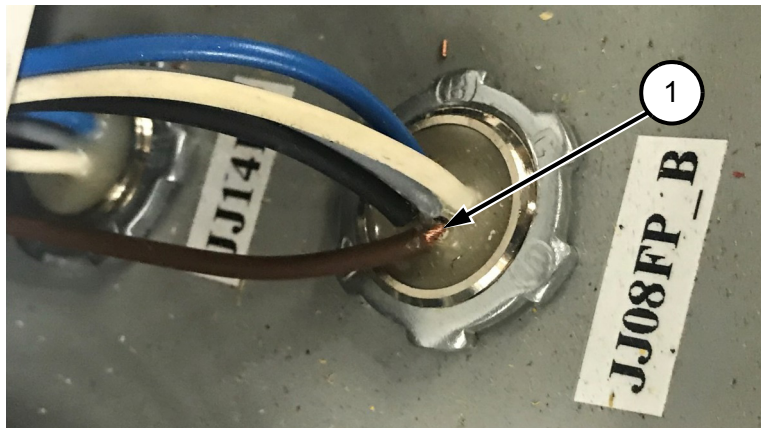


- **FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURES AND MACHINE ENERGY CONTROL PROCEDURE TO DISABLE ENERGY SOURCES WHEN PERFORMING MAINTENANCE, MAKING ADJUSTMENTS OR REPAIRS TO THE MACHINE. FAILURE TO HEED THIS WARNING COULD RESULT IN SEVERE BODILY INJURY.**

M12 Receptacle Inspection - See Figures 1 and 2

1. Inspect the M12 receptacles for exposed copper wire (1) at the back of the connector in the Power Distribution Box (PDB) on the Mark IV Tamper.

FIGURE 1
EXISTING M12 RECEPTACLE

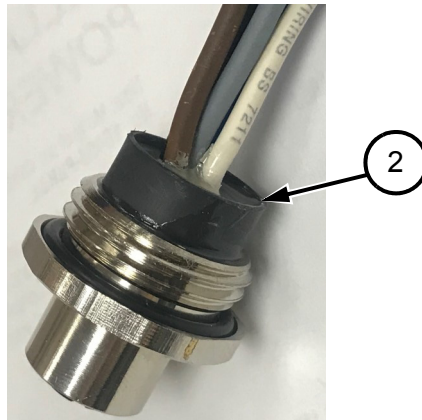


2. If exposed wires are found, determine the number of receptacles needed. Contact the Harsco Rail service department for replacements.

M12 Receptacle Inspection (Contd...) - See Figures 1 and 2

3. The new M12 receptacle will have additional potting material (2) added to the back side of the receptacle. The additional potting material will add more holding force on the wire insulation to secure the wire.

FIGURE 2
REPLACEMENT M12 RECEPTACLE



Instructions To Replace M12 Receptacle

1. Apply parking brakes. Stop engine using the proper procedure to prevent damage to the Jupiter control system. Turn the master disconnect switch off to disable the 24 Volt power supply.
2. Inspect each M12 receptacle for insulation that is pulled out of the potting material and exposed copper wire.
3. Disconnect the mating M12 cable assembly from the M12 receptacle that needs replacing.
4. One at a time, cut the wires off the back side of the receptacle.
5. Remove the old receptacle from the enclosure and replace with new M12 receptacle, Harsco Rail #5055864.
6. Connect (color for color) the wires of the new M12 receptacle to where the cut wires were terminate, replacing the wire marker numbers as required. Do this for all five conductors.
7. Repeat steps 2-6 for each defective M12 receptacle

M12 Replacement Receptacle

ITEM	PART NO	DESCRIPTION	QTY
1	5055864	Connector, M12-F, 1 Meter Leads	As Required

© 2018 HARSCO CORPORATION, ALL RIGHTS RESERVED

306 West 4th Street
Fairmont, MN
56031-1837
Tel: (507) 235-7376
Fax: (507) 235-7372

2401 Edmund Road, Box 20
Cayce-West Columbia, SC
29171-0020
Tel: (803) 822-9160
Fax: (803) 822-7403

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

Printed In USA