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RAIL

SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

DATE: 06-2015 **BULLETIN NO:** 15-011

TITLE: JUPITER DIGITAL I/O MODULE FIELD POWER CIRCUIT BREAKER SIZE

RATING: **DIRECTIVE** (Action Is Required) **ALERT** (Potential Problem)
 INFORMATION (Action Is Optional) **PRODUCT IMPROVEMENT** (Enhance Product)

PRODUCT SERIES / MODEL: WMATA UTV 354C (3 machines)

SERIAL NO: 6111412, 6111422, 6111432

SUMMARY: A problem has been discovered with the size of some of the circuit breakers used on the Jupiter II digital I/O modules. Some of the Jupiter digital I/O modules are being protected with a 20 amp circuit breaker. As a result, the Jupiter field power cables and/or Jupiter module could over-heat and fail under certain operating conditions. A digital I/O module with two field power cables requires no more than a 15 amp circuit breaker. Harsco Rail recommends that the corrective actions be performed as soon as possible.

OPERATIONAL IMPACT: Harsco Rail recommends replacing the 20 amp circuit breaker used on some digital I/O modules with an 15 amp circuit breaker (#5022143).

ACTION: Follow the instructions in this Service Bulletin to replace six 20 amp circuit breakers with six 15 amp circuit breakers. The replacement 15 amp circuit breakers (#5022143) will be covered under warranty for the cited WMATA UTV 354C machines.

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

ORDERING CIRCUIT BREAKERS

- 1. Contact the Service Department at Harsco Rail to order the total quantity of six 15 amp Circuit Breakers (#5022143) needed. The 15 amp circuit breakers will be covered under warranty.

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- 2. Be able to provide the Model Number and Serial Number of the machine that the circuit breakers are being installed on.

PARTS LIST

ITEM	PART NO	DESCRIPTION	QTY
1	5022143	Circuit Breaker, 15 Amp	6

SAFETY INFORMATION



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

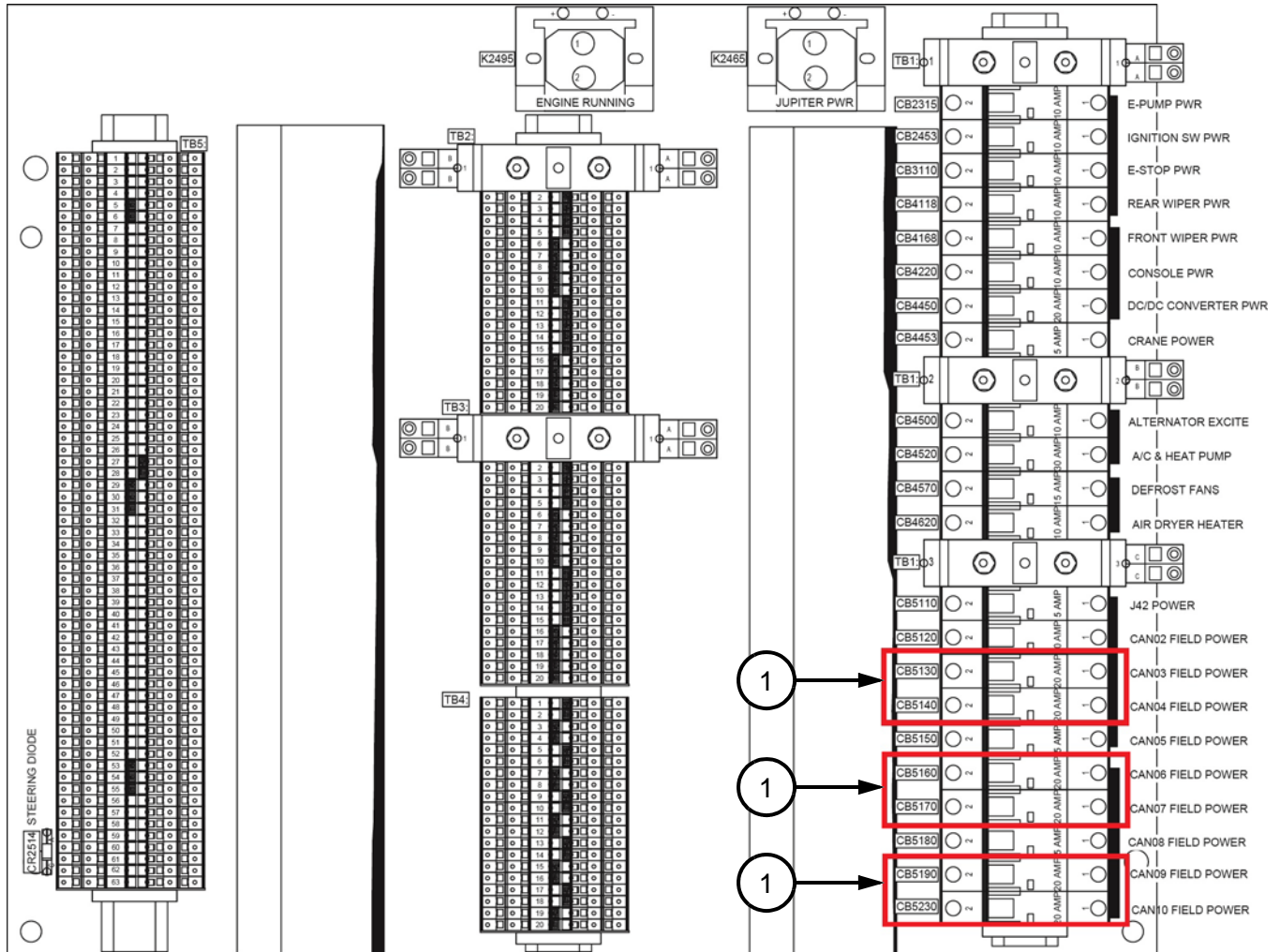
INSTALLING CIRCUIT BREAKERS

- 1. Follow applicable Railroad Lockout - Tagout Procedure to remove the machine from all energy sources when performing maintenance, or making adjustments or repairs to the machine.
- 2. **Important:** BE SURE the Jupiter Control System and the master disconnect switch are shut OFF on the machine before replacing the circuit breakers.
- 3. Find and replace the following 20 amp circuit breakers in the Main Console - CB5130, CB5140, CB5160, CB5170, CB5190, and CB5230. Follow the instructions below to replace the circuit breakers.
- 4. Circuit Breaker Removal: Disconnect the source wire from Pin 2 of the existing circuit breaker. Remove the buss bar from the existing circuit breaker if it is bussed to another circuit breaker. There is a retaining clip on the bottom side of the circuit breaker that needs to be pulled to remove the circuit breaker from the DIN rail.
- 5. Circuit Breaker Installation: Install the new 15 amp circuit breaker (#5022143) on the DIN rail where the existing circuit breaker was located. Reconnect the source wire to Pin 2 of the new circuit breaker. If more circuit breakers need to be changed out that was fed by the buss bar, repeat Steps 4 and 5.

AFTER INSTALLING CIRCUIT BREAKERS

1. After replacing all of the circuit breakers on the machine that were to be replaced, turn ON the master disconnect switch.
2. Turn ON the Jupiter Control System and verify that field power is available on all of the Jupiter CAN modules.

**FIGURE 1
CIRCUIT BREAKERS WIRING**



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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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