Reliability Driven™

Service Bulletin No. 428

MODEL	TYPE	SECTION/GROUP	DATE
D Series	Field Change Program	7-Electrical	Oct. 30, 2015

SUBJECT

CONDITIONS

CONDENSER AND EVAPORATOR POWER CABLE FUSE INSTALLATION

Ref. MCI NHTSA Recall No.:15V-580

Ref. MCI Transport Canada Recall No.:2015-408

Customer Complaint:

Motor Coach Industries ("MCI") has become aware that the D series coaches listed in the table below may have the fuse assembly for the condenser and evaporator motors assembled incorrectly. The potential may exist in which the fuse is no longer protecting the circuit, and the terminal has the potential to move and loosen on the power stud resulting in arcing. The potential also may exist for reduced contact surface area on the connection of the power cable terminal to the power stud.

If this occurs, the movement of the power cable ring terminal along the stud may cause heat resistance which could result in potential injury to persons and/or damage to property.

Cause:

The cause of the defect is the incorrect placement of the nylon shoulder washer.

Corrective Action:

MCI strongly urges owners of the coaches listed below to have the condenser and evaporator power cable rework performed as soon as possible.

13357	13453	13650 to 13665	13721 to 13724	13726 to 13734
13751 to 13762	13773 to 13774	13794 to 13807	13809 to 13817	13819 to 13832
13834 to 13847	13849 to 13863	13865 to 13909		

Parts

Qty.	New P/N	Description
1	26-04-0051	Kit,
		Kit Contents are:
1	07-09-1699	Cable, 24 V, Power Stud
1	07-08-5702	Fuse, 150 AMP
1	19-02-0379	Washer, Nylon Shoulder
1	19-2-62	Washer, Flat
1	19-2-198	Washer, Lock
1	19-3-314	Nut, Hex
6	19-11-259	Cable Ties
a/r	21-7209-1	Spray, Corrosion Inhibitor
a/r	07-12-5078	Power Cable, Condenser / Evaporator (upon visual inspection only)

Service Procedure:

⚠WARNING

Read this entire procedure before beginning work.

Use Safe Shop Practices At All Times.

1. Turn the main battery disconnect switch to the OFF position.
2. Chock both sides of the tires.
3. Open the battery compartment door, lift and secure door in the open position using the positive locking pin.
4. Using a marker and tape, label the three (3) wires (GND, 12V and 24V), ensuring proper orientation during re-installation.

⚠CAUTION

Ensure to disconnect the leads from the battery in the correct sequence, GND / 12V / 24V.

5. Disconnect the GND battery lead from the battery post. Using tape, cover the ends of the wires, ensuring that they do not contact each other or the metal panel.
6. Disconnect the 12V (blue) battery lead from the battery post. Using tape, cover the ends of the wires, ensuring that they do not contact each other or the metal panel.
7. Disconnect the 24V (red) battery lead from the battery post. Using tape, cover the ends of the wires, ensuring that they do not contact each other or the metal panel.
8. Using a marker and tape, label the batteries. Carefully remove the batteries from the compartment.

9. In the battery compartment, locate the fuse holder assembly and 24 V power stud cable shown in Figures 1 and 2.

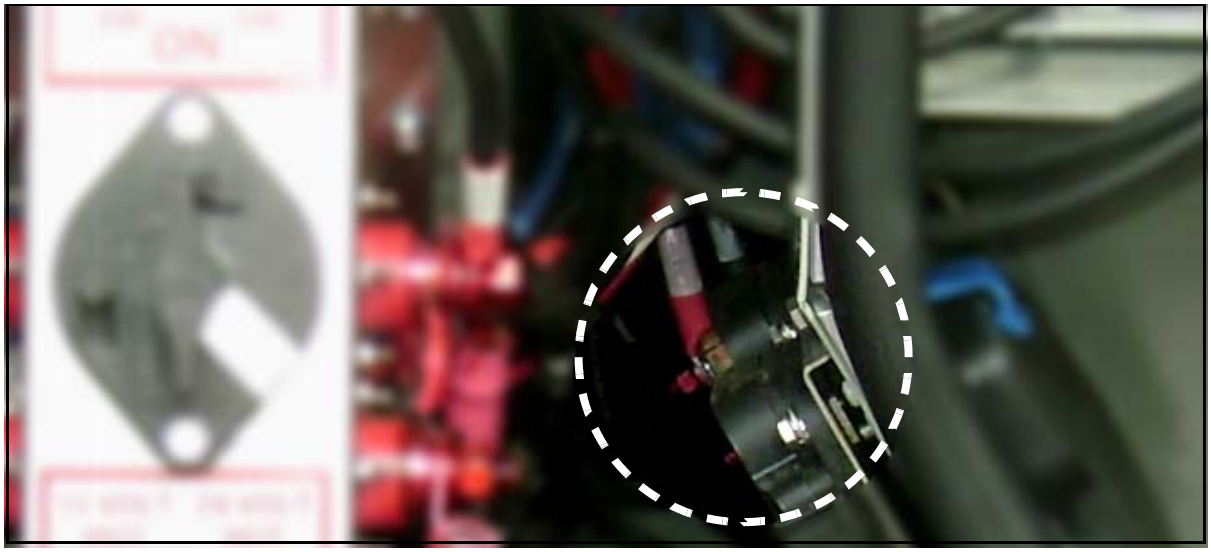

Figure 1. Curbside view of battery compartment.

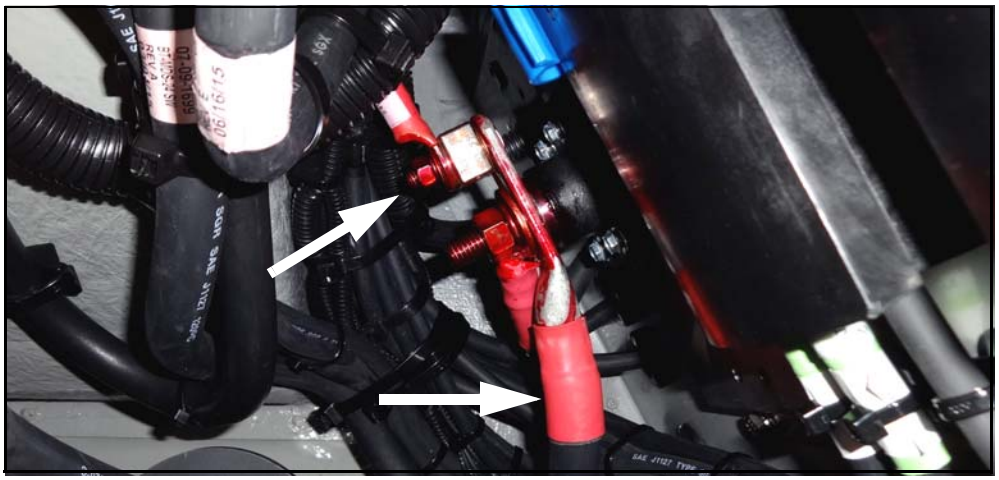

Figure 2. 24 V power stud cable, p/n 07-09-1699, and fuse assembly.

NOTICE

Perform a visual inspection of the 24 V power stud cable shown in Figure 2. If there is NO sign of damage due to heat or melting, proceed to Step 10.

If there are visible signs of damage due to heat or melting, contact the MCI Fleet Support Technical Center at 1-800-241-2947 for further information. Do NOT proceed to Step 10. Disconnect the condenser / evaporator power cable, p/n 07-12-5078, from the power stud. Apply electrical tape on the terminal and remove the fuse. Orient and re-install the batteries. Re-connect the battery leads to the 24V / 12V / GND battery posts (refer to Steps 20 to 23).

10. Locate the upper stud (0.3125 inch ID) on the 24 V power stud cable shown in Figure 3. Remove and **discard** the nut, washers and the 150 Amp fuse. Remove the cable from the fuse holder.
11. Locate the lower stud (0.500 inch ID) on the 24 V power stud cable shown in Figure 3. Remove and **retain** the nut, lock washer and flat washer. Disconnect the harness (Item 8 / Figure 4) from the stud.
12. Follow the routing of the disconnected 24 V power stud cable to the main disconnect switch (MDS). Remove and retain the nut from the stud on the main disconnect switch. Remove and discard the harness bundle tyraps and the 24 V power stud cable.

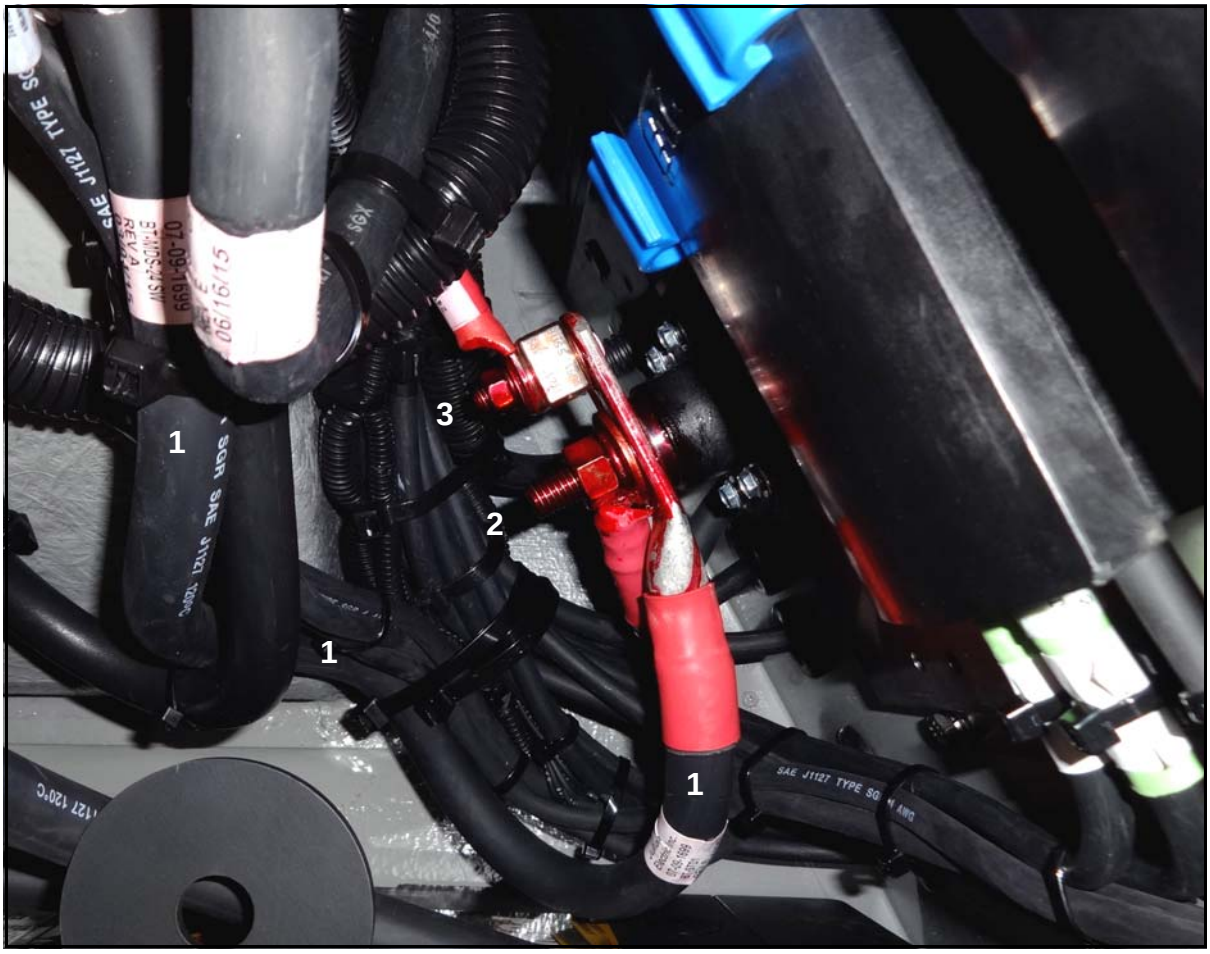

Figure 3. 24 V power stud cable and routing.

Item	Figure 3 Description
1	24 V power stud cable and routing
2	lower stud on the 24 V power stud cable
3	upper stud on the 24 V power stud cable

13. Orient the new 24 V power stud cable, p/n 07-09-1699, from the fuse holder to the main battery disconnect switch stud referred to in Step 12.
14. Using the nut removed in Step 12, secure the 24 V power stud cable to the stud on the main disconnect switch. Torque to 20-25 ft-lbs.

15. Locate the upper stud (0.3125 inch ID) on the 24 V power stud cable, orient the new parts in the exact order shown in Figure 4. Torque the nut to 96-106 in-lbs.

⚠CAUTION

To ensure proper assembly installation, orient the nylon shoulder washer (Item 4 / Figure 4) with the shoulder facing the ring of the condenser and evaporator power cable.

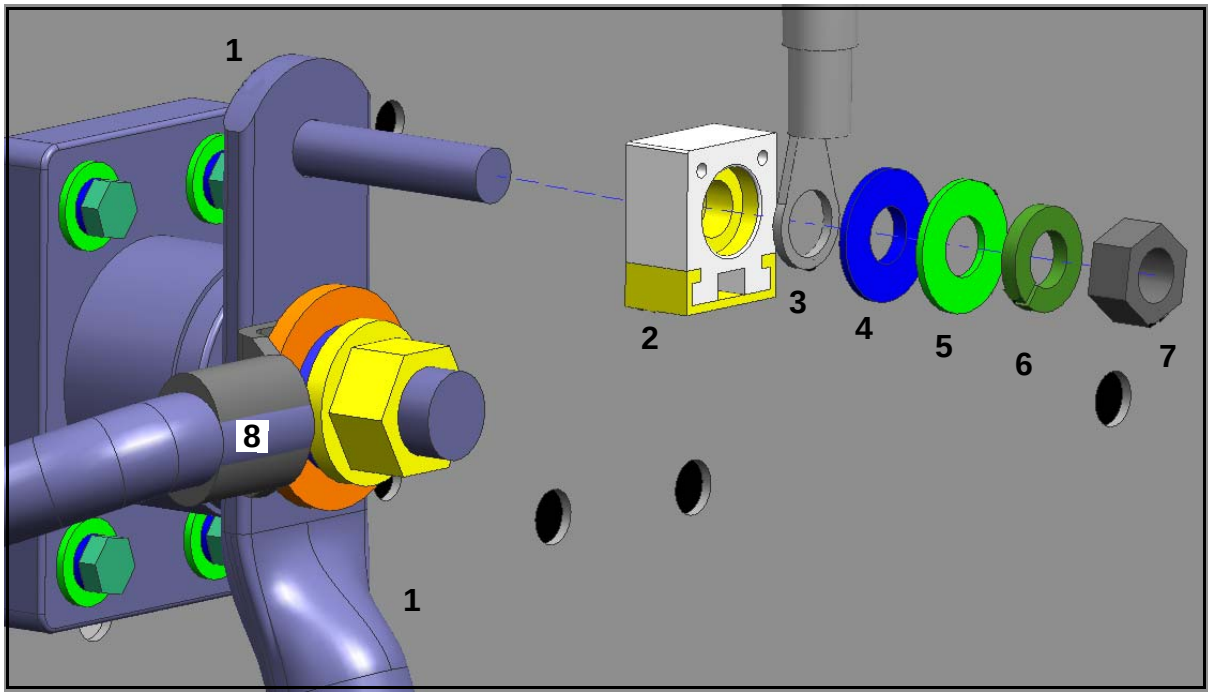

Figure 4. Upper stud install orientation.

Item	Figure 4 Description
1	24 V power cable stud
2	Fuse, 150 AMP, p/n 07-08-5702
3	Power Cable, Condenser and Evaporator, p/n 07-12-5078
4	Washer, Nylon Shoulder, p/n 19-02-0379
5	Washer, Flat, p/n 19-2-62
6	Washer, Lock, p/n 19-2-198
7	Nut, Hex, p/n 19-3-314
8	Harness

16. Locate the lower stud (0.500 inch ID) on the 24 V power stud cable, using the existing nut, lock washer and flat washer install the harness (Item 8 / Figure 4). Torque the nut to 290-310 in-lbs.
17. Spray a corrosion inhibitor on both 24 V power stud cable studs and the stud utilized on the MDS.
18. Using the tyraps, p/n 19-11-259, secure the 24 V power stud cable routing to the harness bundle.

19. Orient and re-install the batteries in the battery compartment.

⚠CAUTION

Ensure to connect the leads from the battery in the correct sequence, 24V / 12V / GND.

20. Connect the 24V (red) battery lead to the battery post. Torque to 80-90 in-lbs.
21. Connect the 12V (blue) battery lead to the battery post. Torque to 80-90 in-lbs.
22. Connect the GND battery lead to the battery post. Torque to 80-90 in-lbs.
23. Spray a corrosion inhibitor on the studs.
24. Close the battery compartment door.
25. Start up the coach and monitor the instrument panel tell-tales. Turn ON the HVAC system and monitor.

Procedure Complete.

Mail or fax the completed limited warranty claim form and verification form to MCI's warranty department, or photo-copy and mail to:

MCI Fleet Support
Attn: Warranty Department
7001 Universal Coach Drive
Louisville, KY 40258
Fax Number 1-800-360-8886

to receive credit for the hours used to complete this task. Contact the MCI Fleet Support Technical Center at 1-800-241-2947 for any further information.

Field Change Program Conditions:

The parts required for this change will be supplied without charge.

A labor allowance of 1.30 hours will be granted for the procedure of installing the specified parts in this bulletin on affected D Series coaches.

This labor allowance will be credited to your MCI Fleet Support Parts Account on receipt of the attached "MCI Field Change Program Verification Form" and a "Warranty Claim Form" as detailed in your Owner Warranty manual to MCI's Warranty department. A "MCI Field Change Program Verification Form" needs to be submitted for each VIN affected. Photocopy the attached "MCI Field Change Program Verification Form" as required for the number of affected coaches in your fleet.

Motor Coach apologizes for any inconvenience resulting from this campaign, but urges you to implement this change as soon as possible.

Sincerely,

Motor Coach Industries

Reliability Driven™

MCI FIELD CHANGE PROGRAM (FCP) VERIFICATION

CONTACT INFORMATION

CUSTOMER NAME:

_____

(PLEASE PRINT

FCP INFORMATION – ONE FORM PER UNIT

FCP#: _____ **Coach Model _____** **Model Year _____**

COACH SERIAL #: (At least the last 5 digits)	**DATE COMPLETED ___ / ___ /___**
MILEAGE:	

IMPORTANT: TO RECEIVE CREDIT FOR ANY ALLOWABLE LABOR CHARGES, THIS VERIFICATION FORM MUST BE RETURNED TO MCI UPON COMPLETION OF THE FCP.

SUBMITTED BY: (Please Print)

_____ **DATE ___ / ___ /___**

TITLE: (Please Print) _____

SIGNATURE:

_____

COMMENTS:

FAX TO: 800-360-8886

MAILING ADDRESS:

MOTOR COACH INDUSTRIES
ATTN: WARRANTY DEPT.
7001 UNIVERSAL COACH DRIVE
LOUISVILLE, KY 40258

MCI part # 03-15-7738C