



Reliability Driven™

Service Bulletin No. 401

<i>MODEL</i>	D / E / G / J Series	<i>TYPE</i>	Field Change Program	<i>SECTION/GROUP</i>	7-Electrical	<i>DATE</i>	Apr. 09, 2014
<i>SUBJECT</i>	SURE POWER BATTERY EQUALIZER						
<i>CONDITIONS</i>							

Ref. Sure Power NHTSA Recall No.:13E-050

Ref. MCI NHTSA Recall No.:13V-498

Ref. MCI Transport Canada Recall No.:2013-357

Customer Complaint

Sure Power Inc. ("Sure Power") has notified Motor Coach Industries ("MCI") that a defect exists in certain battery equalizers. Sure Power reports that the specific potting compound used in the subject products for insulation was found to be capable of conducting electricity once exposed to significant thermal energy. Once electrically conductive, the material is capable of self-heating and maintaining temperatures capable of accelerating a thermal event.

The battery equalizer could demonstrate smoking or flame with additional damage to adjacent / connected parts such as wire harnesses and cables.

Cause:

Sure Power reports that the specific potting compound used in the subject products for insulation was found to be capable of conducting electricity once exposed to significant thermal energy.

Corrective Action:

MCI strongly encourages owners of the coaches listed in the table below to implement the steps in this procedure as soon as possible.

52946 to 53196	53198	53200	53202 to 53227	53245 to 53249
53252 to 53254	53259	53262 to 53439	53442	53448
53454 to 53456	53460	53465	53471	53477
53483	53489	53495	53501	53505 to 53519
53539	53545	53551	53557	53563
53569	53574 to 53837	53879 to 54115	54146 to 54306	54309 to 54390
54397 to 54596	54617 to 55112	55114 to 55155	55162	55199
55203	55208 to 55279	55330 to 55543	55550 to 57999	58100 to 59665
59667 to 59859	61301 to 65955			

NOTICE

SURE POWER HAS INFORMED MCI THAT DUE TO THE VOLUME OF SURE POWER'S RECALL, REPLACEMENT PARTS WILL BE AVAILABLE TO CUSTOMERS SPANNED OVER THE 2014 SPRING AND SUMMER MONTHS, AS REPLACEMENT PARTS ARE MANUFACTURED AND DISTRIBUTED BY SURE POWER.

ALL ORDERS FOR PARTS WILL BE HANDLED BY MCI.

MCI IS INFORMING CUSTOMERS THAT THE REQUIRED PARTS TO PERFORM THIS RETROFIT WILL BE SHIPPED FROM SURE POWER IN ADDITION TO MCI. THE THREE (3) SEPARATE KITS SHIPPED TO CUSTOMERS ARE:

KIT 1 - Battery Equalizer shipped from Sure Power,

KIT 2 - Fuse, insulated nut and busbar shipped from Sure Power,

KIT 3 - Capscrew, washers and nut shipped from MCI.

ALL REQUIRED PARTS FOR THIS RETROFIT WILL BE SHIPPED TO AFFECTED CUSTOMERS, BUT RECEIPT OF PARTS MAY NOT OCCUR IN THE SAME SHIPMENT OR THE SAME SHIPPING DAY.

ENSURE YOU ARE IN RECEIPT OF ALL REQUIRED PARTS TO PERFORM THIS RETROFIT PRIOR TO PERFORMING THE STEPS IN THIS PROCEDURE.

SHOWN IN FIGURE 1 ARE PHOTOGRAPHS OF THE EXISTING AND NEW MODELS OF BATTERY EQUALIZERS.

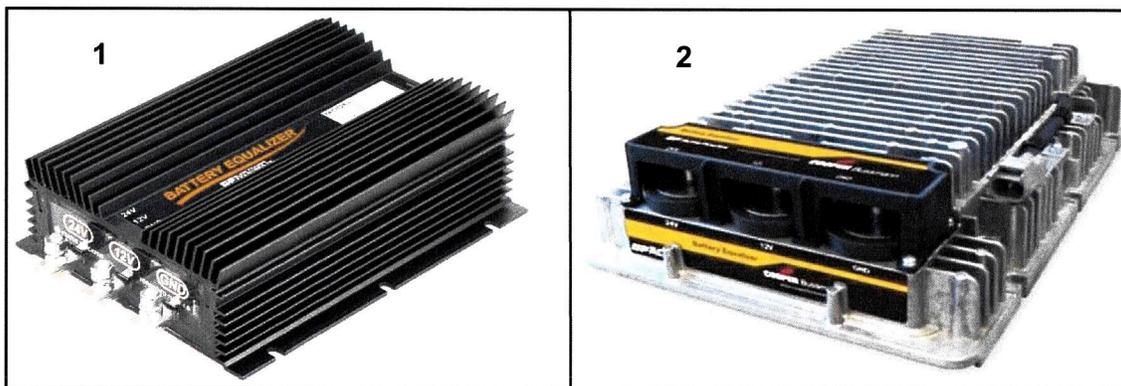


Figure 1.

Item	Description
1	Existing potted equalizer. Part numbers 52208, 52210 or 52210RB
2	New cast equalizer. Part numbers 21080E00 or 21100E00



D SERIES Parts

Qty.	Old P/N	New P/N	Description
1		07-09-1585	Battery Equalizer, 100 AMP
2		07-08-4033	Fuse, 125 AMP
2		07-08-3373	Nut, Insulated
2		07-08-3314	Busbar, Single, Insulated, 1/4
1		T07-3170	Kit, Mounting hardware <i>Kit contents are:</i>
4		19-1-385	Capscrew, 1/4 -20 x 1.00
4		19-2-23	Washer, Flat, 1/4 ID, SST
4		19-2-37	Washer, Lock, 1/4 ID, SST
4		19-3-32	Nut, 1/4 -20 SST
a/r			Loctite, Hi-Tack Sealant

E4500 / G4500 / J4500 SERIES Parts

Qty.	Old P/N	New P/N	Description
1		07-09-1578	Battery Equalizer, 80 AMP
2		07-08-3317	Fuse, 100 AMP
2		07-08-3373	Nut, Insulated
2		07-08-3314	Busbar, Single, Insulated, 1/4
1		T07-3170	Kit, Mounting hardware <i>Kit contents are:</i>
4		19-1-385	Capscrew, 1/4 -20 x 1.00
4		19-2-23	Washer, Flat, 1/4 ID, SST
4		19-2-37	Washer, Lock, 1/4 ID, SST
4		19-3-32	Nut, 1/4 -20 SST
a/r			Loctite, Hi-Tack Sealant



REFER TO MANUAL

Refer to Section 7 / Batteries in the MCI Maintenance Manual, in conjunction with this procedure.

Service Procedure:



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 (as applicable by coach series installation).



4. Using a marker and tape, label the three (3) equalizer 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. Remove and retain the three (3) nuts that secure the ring terminals (battery connection) to the battery equalizer. Remove the wires.

NOTICE

UPON VISIBLE INSPECTION, IF THERE IS NO EVIDENCE OF THERMAL DAMAGE, SMOKE OR MELTING OF THE POTTING COMPOUND ON THE EXISTING EQUALIZER, RECORD THE SERIAL NUMBER TO BE SUBMITTED TO MCI FOR PAYMENT OF CLAIM AND DISCARD EQUALIZER.

IF THE EXISTING BATTERY EQUALIZER DISPLAYS EVIDENCE OF THERMAL DAMAGE, SMOKE OR MELTING OF THE POTTING COMPOUND, RECORD THE SERIAL NUMBER TO BE SUBMITTED TO MCI FOR PAYMENT OF CLAIM AND SHIP THE EQUALIZER TO THE ADDRESS BELOW.

RETAIN PROOF OF DELIVERY TO SURE POWER FOR YOUR RECORDS.

Sure Power Inc.

Attn: RMA

10189 SW Avery St.

Tualatin, OR.

97062

9. Remove and discard the mounting hardware. Remove the battery equalizer and place on a workbench. Using a hammer, knock the studs off the equalizer making it in-operable.

10. Install the new battery equalizer, p/n 07-09-1578 or 07-09-1585 (dependent on coach series), using the capscrew, p/n 19-1-385, lockwasher, p/n 19-2-37, flat washer, p/n 19-2-23 and nut, p/n 19-3-32. Torque capscrew to 73-77 in-lbs.
11. Ensure that the battery equalizer is stable in position.
12. Remove and retain the nut from the 12V stud on the battery equalizer. Orient and install the busbar, p/n 07-08-3314. Secure the busbar to the equalizer using the existing nut.
13. Orient and install the fuse, p/n 07-08-3317 or 07-08-4033 (dependent on coach series), on the busbar stud (refer to Figure 2).
14. Orient and install the ring terminal and secure with the insulated nut, p/n 07-08-3373. Torque nut to 100-110 in-lbs.
15. Repeat Steps 12 to 14 to the 24V stud.

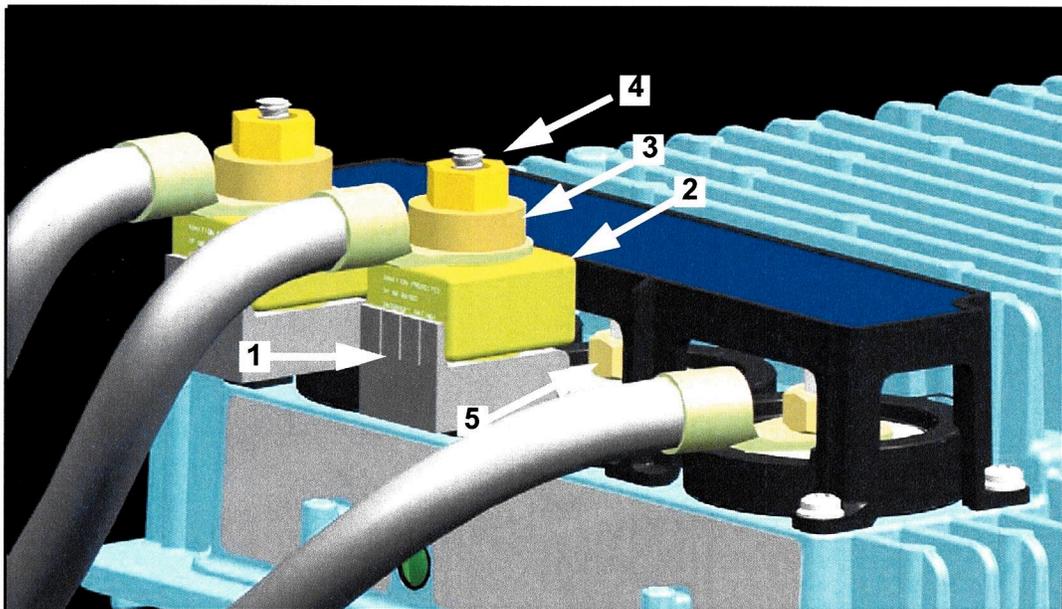


Figure 2. Fuse assembly hardware installation order.

Item	Description
1	Busbar
2	Fuse
3	Ring terminal with wire
4	Insulated nut
5	Battery equalizer nut

16. Orient and install the ring terminal on the GND stud and secure with nut. Torque to 100-110 in-lbs.

**⚠ CAUTION**

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

17. Connect the 24V (red) battery lead to the battery post.
18. Connect the 12V (blue) battery lead to the battery post.
19. Connect the GND battery lead to the battery post.
20. Close the battery compartment door.

Procedure Complete.

Mail or fax the completed limited warranty claim form and verification form to MCI's warranty department, or photocopy 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 0.5 hours will be granted for the procedure of installing the specified part(s) in this bulletin on affected D Series, E4500, G4500 Series and J4500 Series coaches.

NO PAYMENT WILL BE ISSUED BY MOTOR COACH INDUSTRIES UNTIL THE COMPLETED WARRANTY CLAIM FORM AND THE SERIAL NUMBER OF THE EXISTING BATTERY EQUALIZER HAVE BEEN RECEIVED BY MCI.

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