



Reliability Driven™

Service Bulletin No. 3084B

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|------------|-------------------------------|------|---------------------|---------------|--------------|------|---------------|
| MODEL | J4500 Series | TYPE | Service Information | SECTION/GROUP | 7-Electrical | DATE | Dec. 18, 2014 |
| SUBJECT | VANSCO SRM MODULE REPLACEMENT | | | | | | |
| CONDITIONS | Service Information Only | | | | | | |

Description:

MCI has created a procedure to replace a failed Solid State Relay Module (SRM). This procedure applies to J4500 coaches between the range of, and including, unit numbers 62032 to 63630.

Parts

| Qty. | New P/N | Description |
|------|-------------|--|
| a/r | T07-3057PRO | Solid State Relay Module (SRM), Factory Programmed |

Service Information:

1. New parts will be available for service replacement.

Service Procedure:



Read this entire procedure before beginning work.

Use Safe Shop Practices At All Times.

1. Open the passenger entrance door.
2. Turn the main battery disconnect switch to the OFF position.
3. Move the ignition switch to the RUN position.

NOTICE

Steps 4 to 19 are applicable to SRM replacement in the front junction box.

Steps 20 to 38 are applicable to SRM replacement in the rear junction box.

4. Enter the coach cabin and lift the T-handle on the lower, LH console to open the front junction box compartment door.
5. In the front junction box, locate the solid state relay module (SRM) modules (refer to Figure 1).

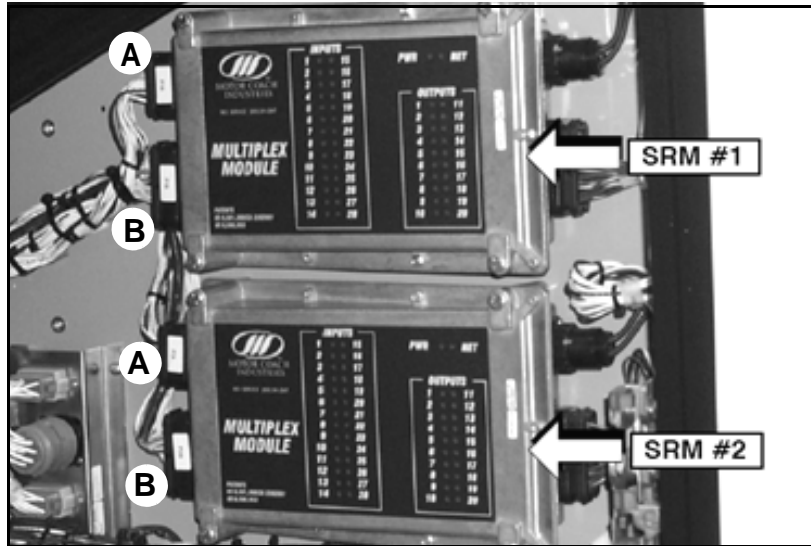


Figure 1.

6. Remove the failed SRM by disconnecting the square harness plugs (Connectors A and B shown in Figure 1) from the failed SRM by depressing the tab on top of the plugs to disengage the locking mechanism as shown in Figure 2.

NOTICE

The connector tab could be missing. If so, the connector can be easily removed by sliding a screwdriver underneath the lock tab.

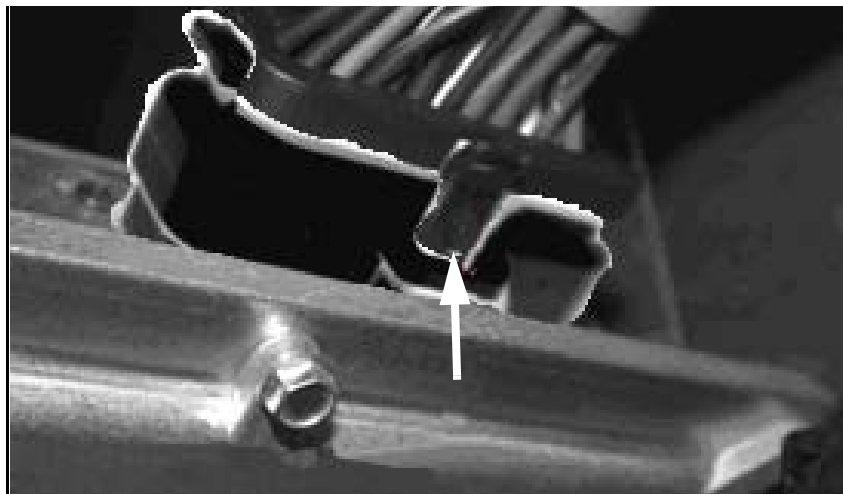


Figure 2.



7. Disconnect the circular harness connector by turning the collar counter- clockwise 90 degrees.
8. Remove and retain the four (4) bolts from the failed SRM. Remove failed SRM from coach.
9. Remove the new SRM from the shipping container.
10. Using the existing four (4) bolts, install the new SRM.
11. Connect the harness plugs to the new SRM.

NOTICE

An audible click can be heard, ensuring that the square connectors are properly fastened.

When connecting the round connector, a slight click will be felt when the locking ring locks into place.

12. Unplug the Connector B from the other (existing) SRM in the front junction box (refer to Figure 1).
13. Place the ignition switch to the RUN position.
14. Turn the main battery disconnect switch to the ON position. Wait three (3) minutes.

WARNING

DO NOT turn the ignition switch OFF before the three (3) minute timeline, as interruption of the programming sequence will render the SRM in-operative.

15. Turn the main battery disconnect switch to the OFF position. Wait ten (10) seconds.
16. Turn the main battery disconnect switch to the ON position and wait three (3) minutes.
17. Turn the main battery disconnect switch to the OFF position. The replacement (new) SRM has now re-programmed the SRM in the rear parcel rack (which should be the only SRM it was communicating with since the other SRM in the front J-Box was disconnected).
18. Re-connect the Connector B to the SRM that was disconnected in Step 12.
19. Repeat Steps 14 to 17 so that this SRM can be re-programmed. After repeating Steps 14 – 17, all three (3) SRMs should be fully functional and the application software should be updated to Version 4.3.

Front Junction Box Procedure Complete.

NOTICE

Ensure that the main battery disconnect switch is in the OFF position.

20. In the coach cabin, locate SRM #3, in the rear, roadside parcel rack compartment (Figure 3).



Figure 3.

21. Remove and retain the four Phillips screws mounting the closing panel to the parcel rack.

NOTICE

The closing panel and SRM can be removed from the parcel rack compartment by partially closing the parcel door and sliding the panel out.

22. Disconnect the square harness plugs (Connectors A and B shown in Figure 1) from the SRM, by depressing the tab on top of the plugs to disengage the locking mechanism as shown in Figure 2.
23. Disconnect the circular harness connector from the SRM by turning the collar counter- clockwise 90 degrees.
24. Remove the failed SRM, mounted to the closing panel, from the parcel rack compartment.

25. Using a 7/16 inch socket, remove and retain the four (4) nylon nuts (refer to Figure 4). Remove and retain the screws.



Figure 4.

26. Remove the new SRM from the shipping container.
27. Using the existing four (4) bolts and nylon nuts, install the new SRM to the closing panel.

NOTICE

The closing panel mounting clips may have moved during removal and should be bent to hold them in place over the holes in the parcel rack strut.

Refer to Figure 5 on how to bend the clips.

Refer to Figure 6 for examples of aligned and misaligned clips.



Figure 5.



Figure 6.

| Item | Description |
|------|-------------------|
| A | Aligned clip |
| M | Misaligned clip |
| 4 | 4th clip location |

28. Orient the closing panel / SRM assembly in the parcel rack compartment.

NOTICE

An audible click can be heard, ensuring that the square connectors are properly fastened.

When connecting the round connector, a slight click will be felt when the locking ring locks into place.

29. Re-connect the three square harness plugs and reinsert the round connector.

NOTICE

The closing panel with attached SRM can be reinserted in the parcel rack by partially closing the parcel door and sliding the panel in.

Be careful not to bump the panel clips when sliding the panel in.

30. Replace the four Phillips screws holding the panel in place.



31. Lift the T-handle on the lower, LH console to open the front junction box compartment door..
32. Locate and unplug the Connector B on one of the SRM's in the front junction box. It doesn't matter which SRM is unplugged.
33. Move the ignition switch to the RUN position.
34. Turn the main battery disconnect switch to the ON position and wait three (3) minutes.

WARNING

DO NOT turn the ignition switch **OFF** before the three (3) minute timeline, as interruption of the programming sequence will render the SRM in-operative.

35. Turn the main battery disconnect switch to the OFF position. Wait ten to fifteen (10-15) seconds.
36. Turn the main battery disconnect switch to the ON position again and wait three (3) minutes.
37. Turn the main battery disconnect switch to the OFF position. The replacement module has now re-programmed the module still connected in the front J-Box, which should be the only module it was communicating with since the other module in the front J-Box was disconnected.
38. Now re-connect the Connector B on the module in the front J-Box that was disconnected.
39. Repeat Steps 34 to 37, which will re-program the remaining module. After completing Step 37, all three (3) SRMs should be fully functional and the application software should be updated to version 4.3.

Rear Junction Box Procedure Complete.