



Spartan Fire, LLC

Technical Service Bulletin TSB23-880-001

DATE: 6/26/2023

APPLIES TO: This service bulletin applies to certain 2022 through 2024 model year, Gladiator and Metro Star model emergency response chassis cabs built between June 2022 and June 2023.

CONDITION: Supplier shortage of RCMs

CORRECTION: Install RCM.

LABOR ALLOCATION: 1 hour

CLASSIFICATION: V4

PARTS NEEDED:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	3366-RR6-001	RCM Module
3	04200375H5Z	Bolt 1/4-20 x 3.75LG Hex GR5 Zinc
3	04FWAHNZ	¼ inch washer Flat HRD NRW Zinc
3	04LWZ	¼ inch washer LK (locking) Zinc
1	TSB23-880-001	Instructions

GENERAL INSTRUCTIONS:

Thoroughly review entire service bulletin before starting work. If there are questions or concerns with steps defined in this service bulletin, contact Spartan Fire, LLC. Customer & Product Support Group.

All applicable industry safety standards must be followed when performing work identified in this procedure.

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Step By Step Instructions



Unit must be mounted, torqued and connections installed in finished position before powering up. Failure to do so could result in an inadvertent airbag deployment which could result in personal injury or death.

Attention!!!

Photo of new RCM serial number label will be required for payment to processed. Please take photo of new RCM serial number and email to Andy.Haigh@spartanmotors.com. Ensure that both the serial number on the RCM and the VIN number on the VIN data label are both readable in the photo.

(See Figure 2.1 for example of what will be required).

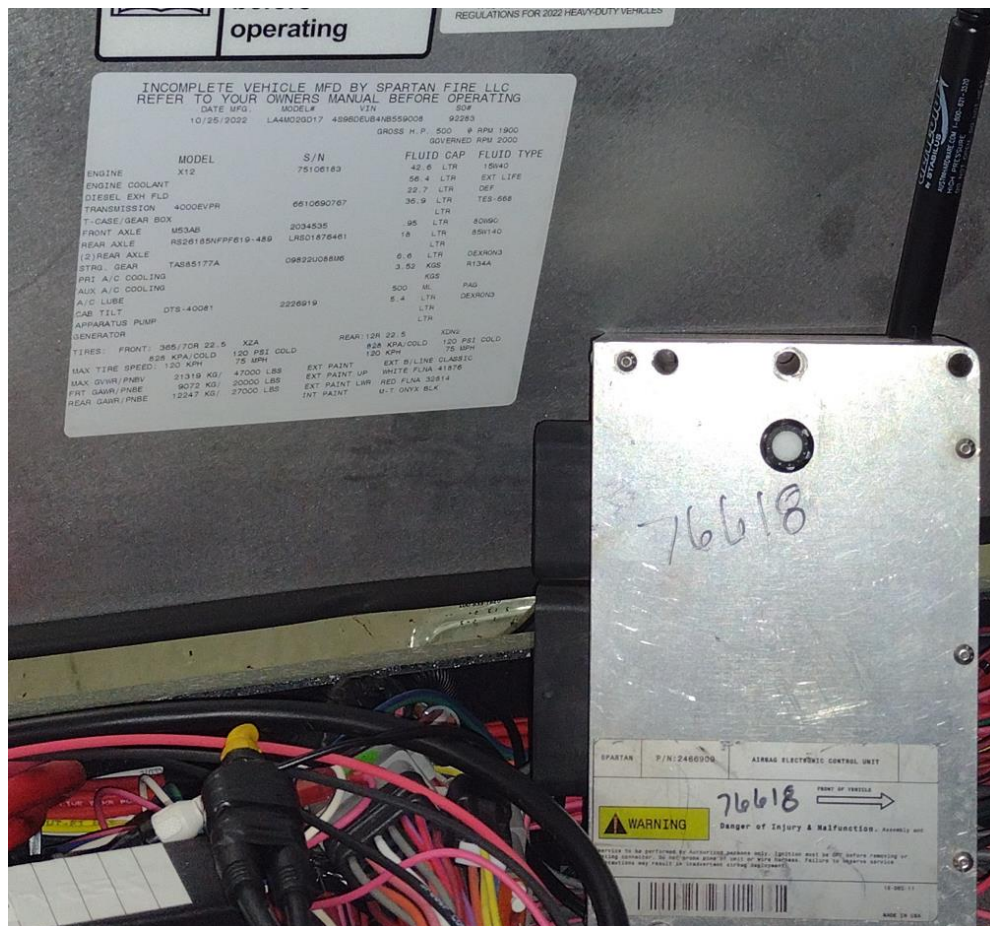


Figure 2.1

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1. Ensure power is off to unit, both master and ignition; attach appropriate lock out tag on these switches.
2. Lift center dash cover and locate APS fuse in officer side of panel. Remove APS fuses shown in *Figure 3.1*

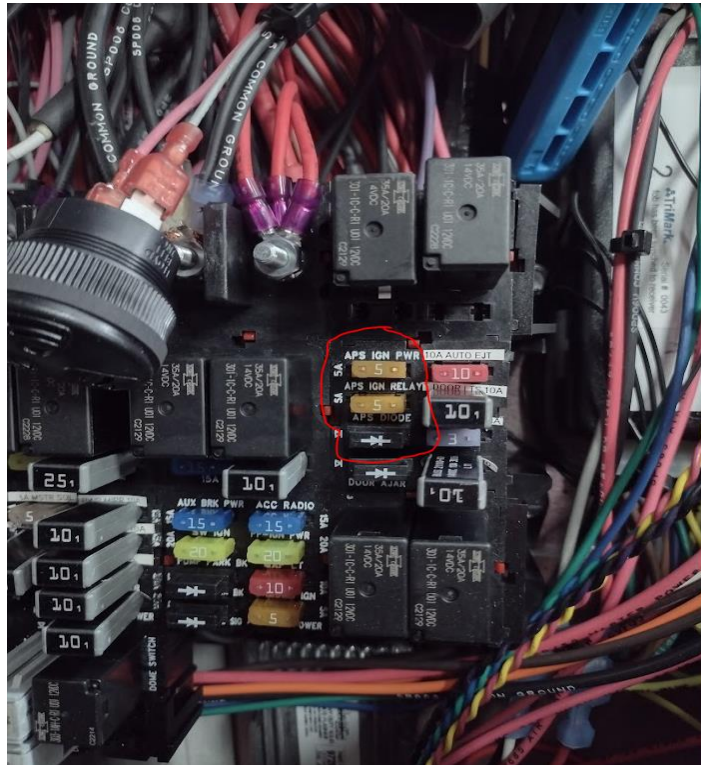


Figure 3.1

3. Remove all equipment located on the officer side dash near the glove box; additionally remove all items located in glove box.
4. Remove the officer' side dash panel to gain access to the RCM (restraint control module) mounting location. Dash is secured with 3 screws near the windshield and 2 screws below the glove box compartment. Remove 5 screws and set dash cover aside. *See Figure 4.1*

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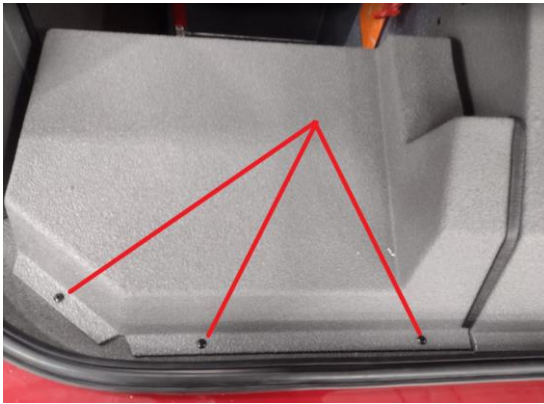


Figure 4.1

5. Locate the RCM connectors with the anti-static bag and the warning label as shown in Figure 4.2



Figure 4.2

6. Remove the warning label and the anti-static bag from the connectors and discard.

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Caution!

Do not connect the electrical connections to the RCM until the RCM is secured properly to the side of the engine tunnel. Inadvertent airbag and pretensioner deployment could occur.

The RCM is equipped with a gyro that senses the roll of the truck for rollover protection. If the RCM is connected and tilted sideways during installation an unintended deployment could occur.

7. Mount new RCM to side of engine tunnel using the 3 – ¼ -20 X 3.75 bolts and the washers as shown in *Figure 5.1*. Torque 3 bolts to 85 in-lbs.
8. Connect 3 electrical connectors to the new RCM. Ensure the bottom Deutsch connector is locked in position. Torque center retainer bolt on 2 rectangular connectors to 26 in -lbs.

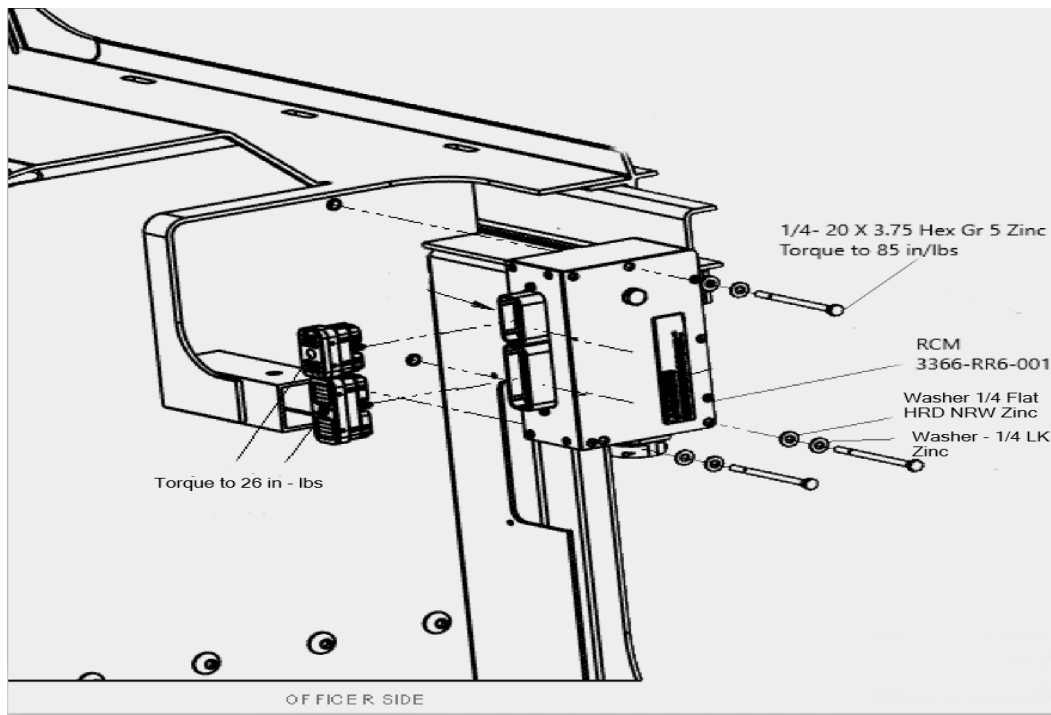


Figure 5.1

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9. Once RCM is installed, excess/service loop of harnesses must be zip tied back in place so any remaining components may be installed. Once this has occurred re-install any electrical device(s) in their mounting positions as shown below in *Figure 6.1*.

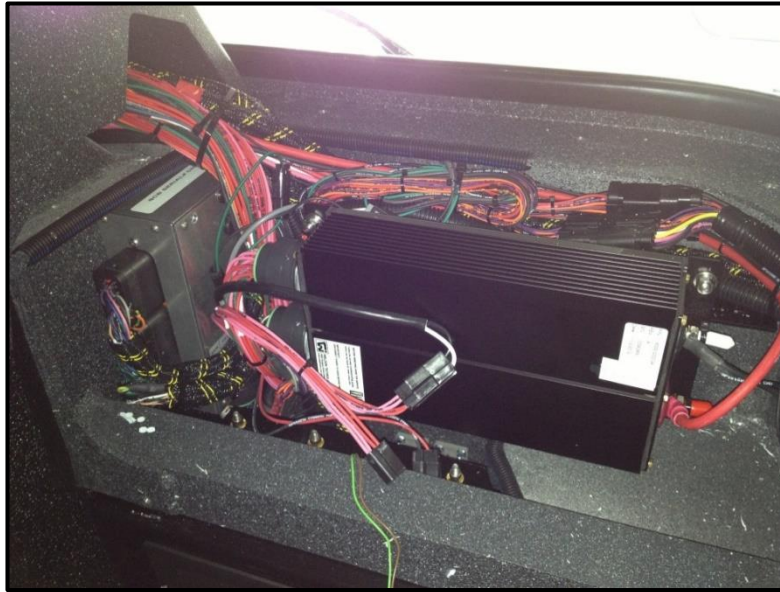


Figure 6.1

10. Once this has been completed a diagnostic verification test will need to be run before reinstalling the dash components but ensure that the RCM is firmly mounted in its location and all connections are firmly seated and connected before continuing this portion of the installation.
11. Reinstall fuses that were removed in step 2.
12. Connect to the vehicle diagnostic plug using a typical transceiver (i.e. Dearborn 4 Plus adapter, NexIQ, etc...) while connected to the laptop with the Takata Monitor tool installed.
13. Turn master and ignition switches on and start the engine. The engine must be running for the air bag system to be awake and running.

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14. If you do not possess the software, it can be download at this website:
<https://spartaner.com/downloads/>. Password: customer#1
15. Follow the directions to download the software.
16. Once downloaded, open the software by double clicking the monitor tool icon (example shown below).



17. If configured previously the diagnostics will automatically connect, otherwise you will have to change your settings, all troubleshooting steps may be reviewed via the Takata Monitor User Guide, which can be found in the help tab of the Takata software.
18. Once connected to the vehicle, the screen below (*figure 7.1*) will be shown. This screen is an example of a system of no active fault codes, as there is nothing highlighted in the cab diagram of the truck and there are no fault codes listed in the field on the upper right.

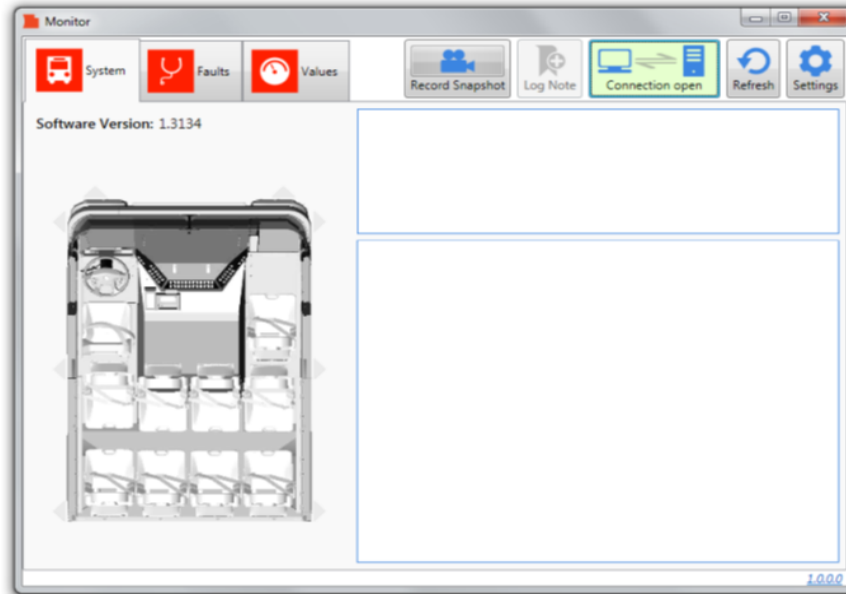


Figure 7.1

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19. The screen in *figure 8.1* shows an example of a unit with a fault, which will require troubleshooting. The RCM item is illuminated on the cab diagram below and there are fault codes on the upper right field. Troubleshooting steps will be identified in the lower right field of the software.

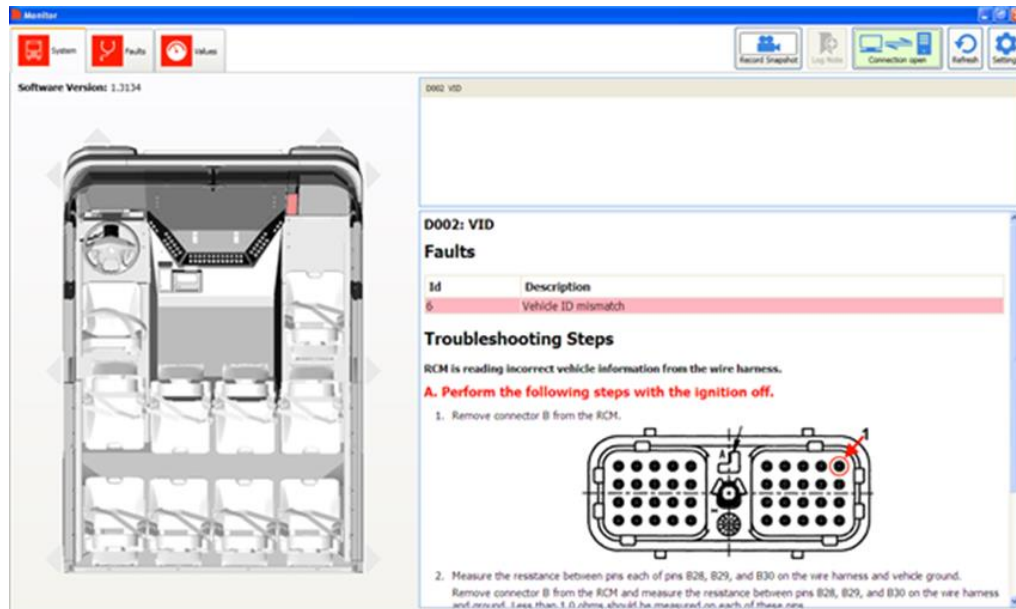


Figure 8.1

20. Once it is confirmed that any active codes have been resolved and no codes are present, reinstall the officer's side dash cover and screws and remount any items that were mounted in and on the dash.
21. Remove warning label attached to dash mounted park brake valve region. *Figure 8.2*



Figure 8.2

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