

Dash Radio Load Redistribution Repair

Following the steps in this procedure will reduce the auxiliary draw from the radio memory circuit and place it on a switched ignition circuit at the radio. The dash radio antenna power will also be modified to be on the radio switched ignition circuit and the antenna relocated for better OTA signal exposure.

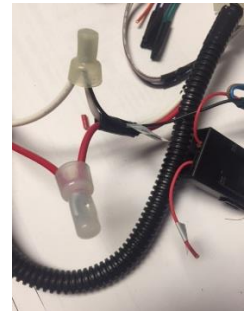
Steps:

1) Remove dash radio bezel and the radio from the dash.

2) Locate the radio harness, radio interface harness and the harness or the camera switch module in the radio opening.



3) On the camera switch module harness, disconnect the 22 ga. red power wire from the 18 ga. red wire on the radio interface harness. Reconnect the 18 gauge red wires together; the cut red wire with the inline fuse will be reconnected later (Step 7) in this procedure.



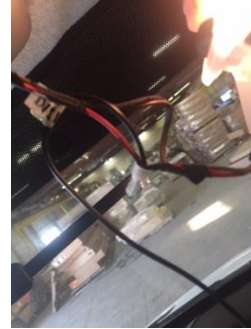
Radio Antenna Modification

4) Remove the dome light in the cab ceiling and locate the radio antenna in the map light console. In most cases the black power line for the antenna is connected to the constant power on the dome light circuit. Relocate the antenna to the windshield. Clean windshield with rubbing alcohol before applying the antenna (this should improve reception).



5) The power wire for the antenna is 20 ga. black and is connected to a constant 12VDC (red) wire for the dome light circuit.

6) Disconnect the black antenna wire from the dome light circuit. Splice in approximately an additional 5 feet of 18/20 ga. wire and route the wire down the passenger side “A” pillar, under the dash to the radio opening. Be sure to zip tie wire in place to prevent sagging. If the dome light circuit is disconnected, reconnect appropriately.

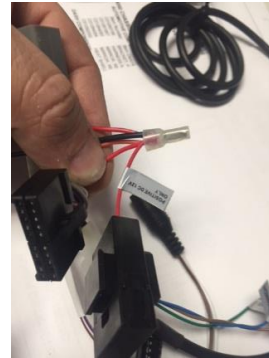


Reconnecting Circuits

7) At the radio opening, connect the antenna power wire and the camera switcher red power wire to the red switched ignition wire on the radio harness (from the gray terminal block connector).

8) Test for proper operation of radio, cameras, and antenna. When confirmed,

8) Reinstall the radio, radio bezel and the dome light when completed and test



Notes:

- 1) If the unit is not equipped with side cameras, there will not be a camera switcher and the related steps will be skipped
- 2) Some antenna power wire was connected to a yellow/blue wire in the ceiling compartment. This must be disconnected and reconnected as described in step 6. The yellow/blue wire does not have any 12V power applied to it, either constant or a switched ignition.
- 3) If the antenna power and ground wires are found in an unconnected state. Use a self-tapping screw and secure to the ground to the chassis steel and connect the power wire as described in step 6.