



NUMBER: 08-046-12

GROUP: Electrical

DATE: June 19, 2012

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SUBJECT:

Navigation Losing Satellite Signal

OVERVIEW:

This bulletin involves relocating the Global Position System (GPS) antenna.

MODELS:

2011 - 2012 (WK) Grand Cherokee (International Only)

NOTE: This bulletin applies to vehicles built before February 9, 2012 (MDH0209XX) with MEDIA CENTER 735N CD/DVD/MP3/H (sales code RHW) or a AM/FM/CD/MP3 Nav Radio (sales code RHP).

SYMPTOM/CONDITION:

The customers navigation functions may not work properly.

Electro magnetic interference (EMI) coming from the radio is blocking the GPS satellite signals resulting in a loss of the navigation functions. Moving the antenna away from the radio will repair this concern.

DIAGNOSIS:

Using a Scan Tool (wiTECH™) with the appropriate Diagnostic Procedures available in TechCONNECT, verify no DTC's are set. If DTC's are present record them on the repair order and repair as necessary before proceeding further with this bulletin.

If a customer's VIN is listed in VIP or your RRT VIN list, perform the repair. For all other customers that describe the symptom/condition, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1	68194555AA	Antenna Kit

REPAIR PROCEDURE:

1. Start with lowering the steering wheel to the lowest tilt position.
2. Disconnect and isolate the negative battery cable.
3. Remove the Center stack bezel, follow service information in TechCONNECT. 23 - Body / Instrument Panel / BEZEL, Instrument Panel, Center/Removal.
4. Remove the four retaining screws from the radio, follow service information in TechCONNECT, 08 - Electrical/8A - Audio and Video/RADIO/Removal.
5. Remove the cluster assembly, follow service information in TechCONNECT,08 - Electrical/8J - Instrument Cluster/Removal.

NOTE: This is the seal in step 3 of the removal procedure. The clips need to be released and then position the steering column seal back. This gives more clearance to aid in the removal of the cluster.(Fig. 1)



Fig. 1 Removing column seal with trim stick

6. The GPS antenna is located above the radio, mounted just under the white dash insulator (Fig. 2).



Fig. 2 Factory installed GPS antenna location

1 - Location of factory installed GPS antenna

7. Remove the two push pins that holds the old GPS antenna, remove and discard the antenna ([Fig. 3](#)).

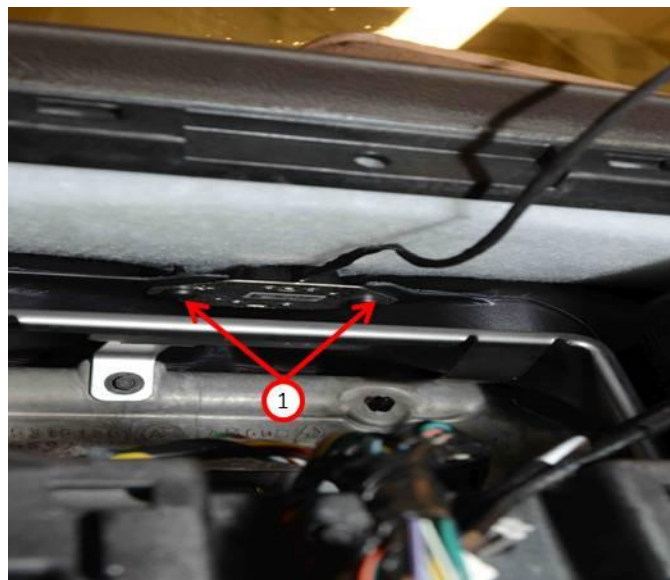


Fig. 3 Remove plastic push pins that hold antenna

1 - Plastic push pins location, remove and discard.

8. The new GPS mounting location is on the outboard side of the cast metal support brace for the cluster ([Fig. 4](#)).



Fig. 4 Location for new GPS antenna

1 - Location where to install the new GPS antenna.

9. Clean the support bracket with the alcohol wipe that is in the parts kit.
10. Remove the seal off the double sided tape that is located on the antenna mounting bracket.
11. Install the new antenna on the support bracket making sure the coax lead points toward the left side of the vehicle ([Fig. 5](#)).



Fig. 5 GPS antenna installed and wire routing

- 1 - Coax cable routing.
- 2 - Antenna and coax pointed towards the radio.

NOTE: For left hand drive vehicles the coax lead points toward the right side of the vehicle (toward the radio).

- 12. Route the coax along the wire harness. Secure the coax to the harness with wire ties and make sure the connector is positioned so the connection can be made at the rear of the radio.
- 13. Coil excess coax cable and secure to the wire harness as shown in (Fig. 6).



Fig. 6 Extra cable coiled and zip tied

1 - Proper location to coil extra coax.

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- 14. Reassemble the vehicle, start with installing the cluster as per TechCONNECT.08 - Electrical/8J - Instrument Cluster/Installation.
 - 15. Install the Radio as per, TechCONNECT 08 - Electrical/8A - Audio and Video/RADIO/Installation.
 - 16. Install the center stack bezel as per TechCONNECT 23 - Body / Instrument Panel / BEZEL, Instrument Panel, Center/Installation.
 - 17. Reconnect the battery cables.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Amount
08-20-04-92	Antenna, GPS - Relocation (Skill Level = B, Training Level = 3)	0.5 Hrs.

FAILURE CODE:

ZZ	Service Action
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