

415-00B Information and Entertainment System - General Information - Vehicles  
With: SYNC 3

Removal and Installation

2019 Ranger

Procedure revision date:  
12/3/2018

## Satellite Radio / Global Positioning System (GPS) Antenna Cable

### Materials

Name	Specification
3M™ Super-Fast Repair Adhesive 04747	-

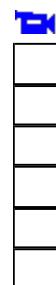
### Removal

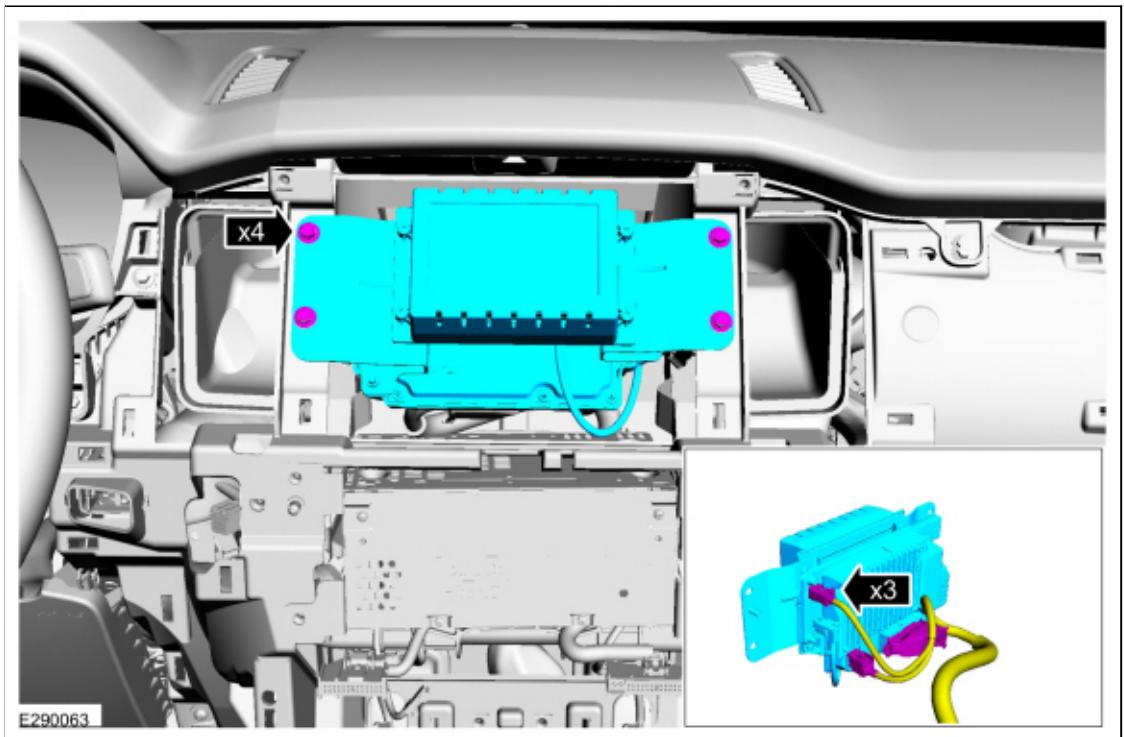
**NOTE:** Removal steps in this procedure may contain installation details.

#### Instrument panel antenna cable

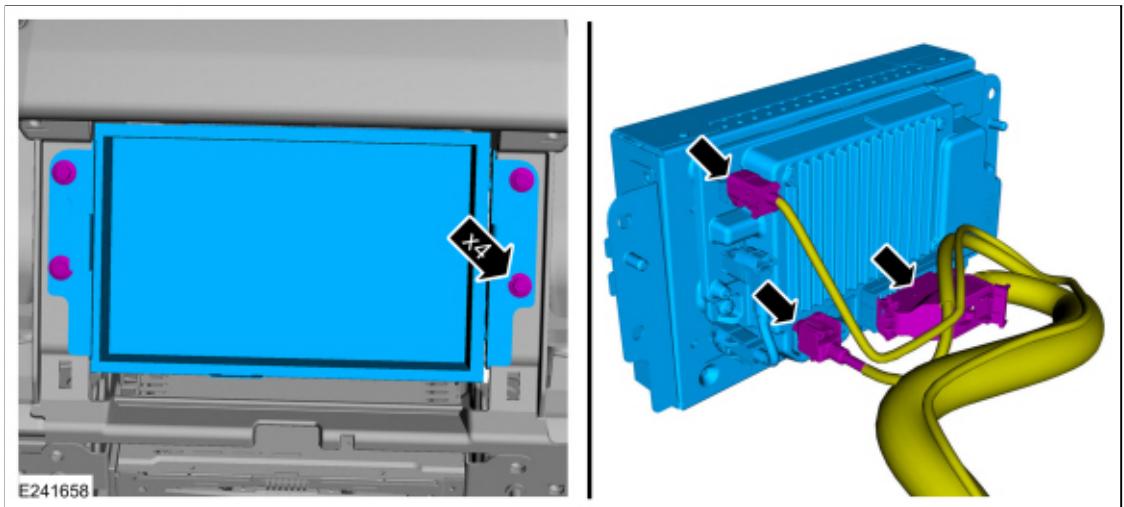
**NOTE:** The original equipment AM/FM/Satellite radio/GPS antenna cable(s) are part of the wiring harness and cannot be removed. This procedure refers to replacement of the cable(s) only by overlaying the cable(s).

1. Remove the ACM.  
Refer to: [Audio Front Control Module \(ACM\)](#) (415-00B Information and Entertainment System - General Information - Vehicles With: SYNC 3, Removal and Installation).
2. On vehicles not equipped with touchscreen display.  
Remove the screws, disconnect the electrical connectors and remove the FCDIM and APIM as an assembly.  
*Torque: 27 lb.in (3 Nm)*

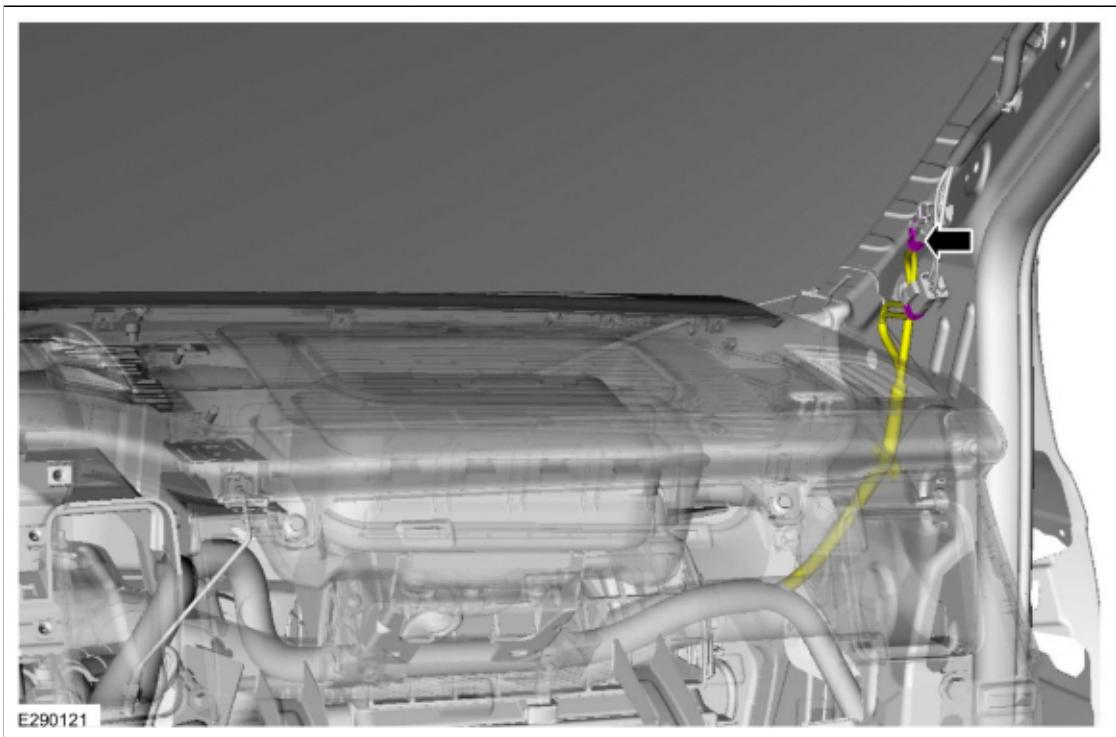




3. On vehicles equipped with touchscreen display.  
Remove the screws, disconnect the electrical connectors and remove the FDIM.  
*Torque: 27 lb.in (3 Nm)*



4. Remove the LH A-pillar trim panel.  
Refer to: [A-Pillar Trim Panel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).
5. Disconnect the in-line connector.



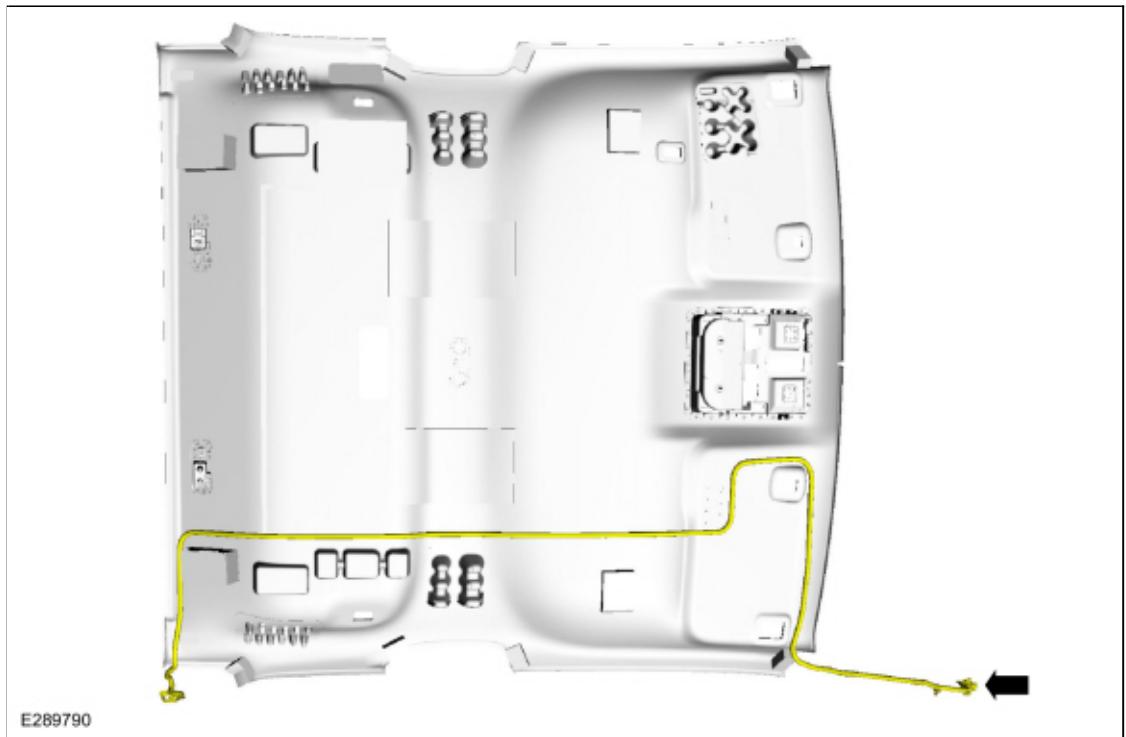
6. Remove the instrument panel upper section.  
Refer to: [Instrument Panel Upper Section](#) (501-12 Instrument Panel and Console, Removal and Installation).
7. Remove the glove compartment.  
Refer to: [Glove Compartment](#) (501-12 Instrument Panel and Console, Removal and Installation).

#### Headliner antenna cable

8. Remove the headliner.  
Refer to: [Headliner - SuperCab](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).  
Refer to: [Headliner - Crew Cab](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).
9. **NOTE:** *Supercab headliner routing shown, all other routings similar.*

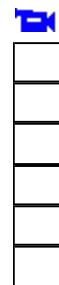
Remove the satellite/GPS antenna cable.

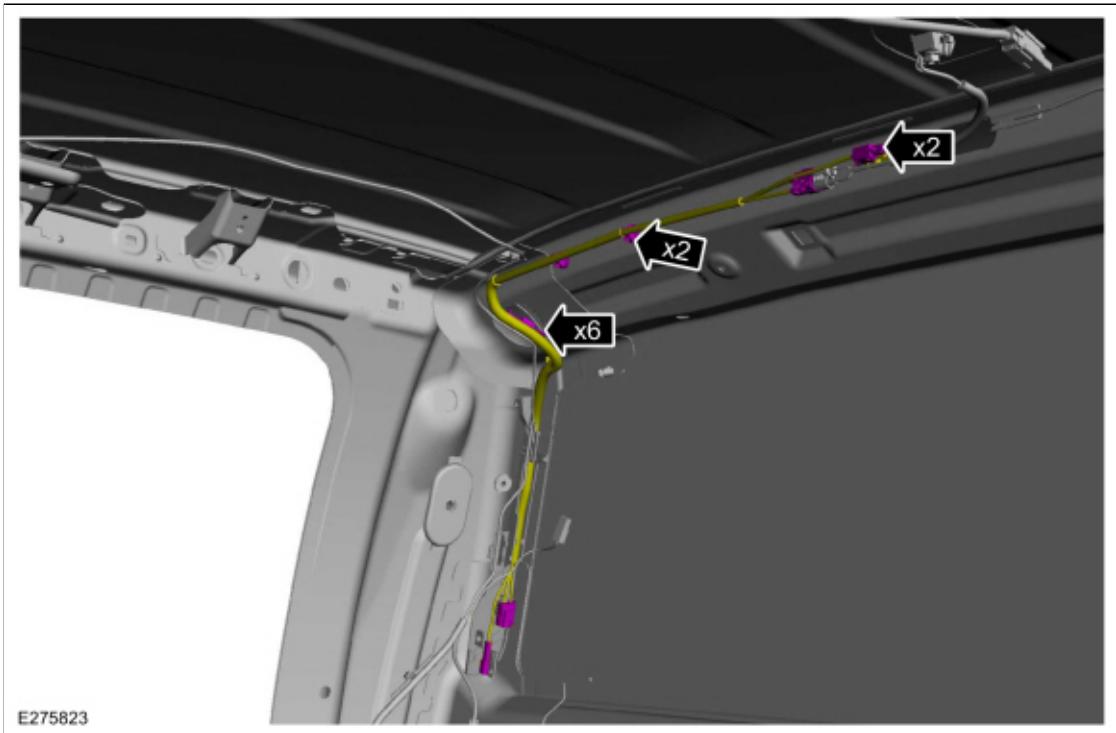
1. Using tape, mark the satellite radio /GPSantenna cable at the exit points for proper length from headliner-to-body/ roof connectors.
2. Carefully remove the satellite radio antenna cable from the headliner.



#### Rear satellite/ antenna cable

10. Remove the headliner.  
Refer to: Headliner - Vehicles Built From: 17-08-2015 (501-05 Interior Trim and Ornamentation) .
11. Disconnect the electrical connectors, separate the cable guides and remove the rear satellite/GPS antenna cable.

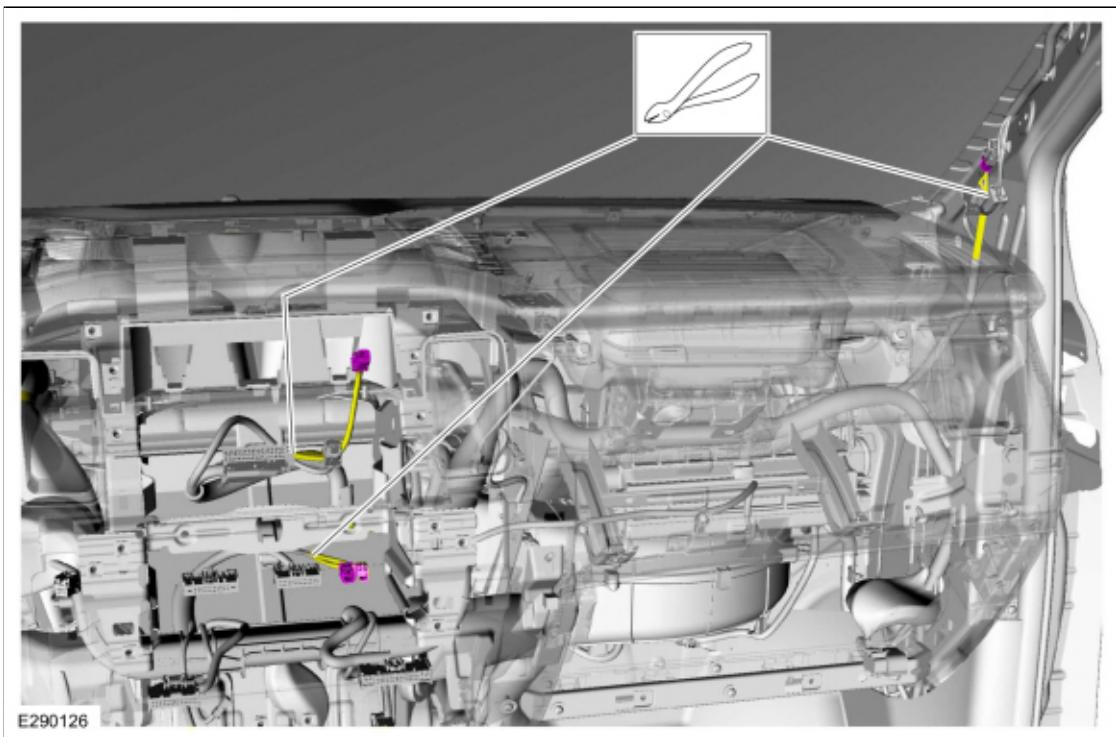




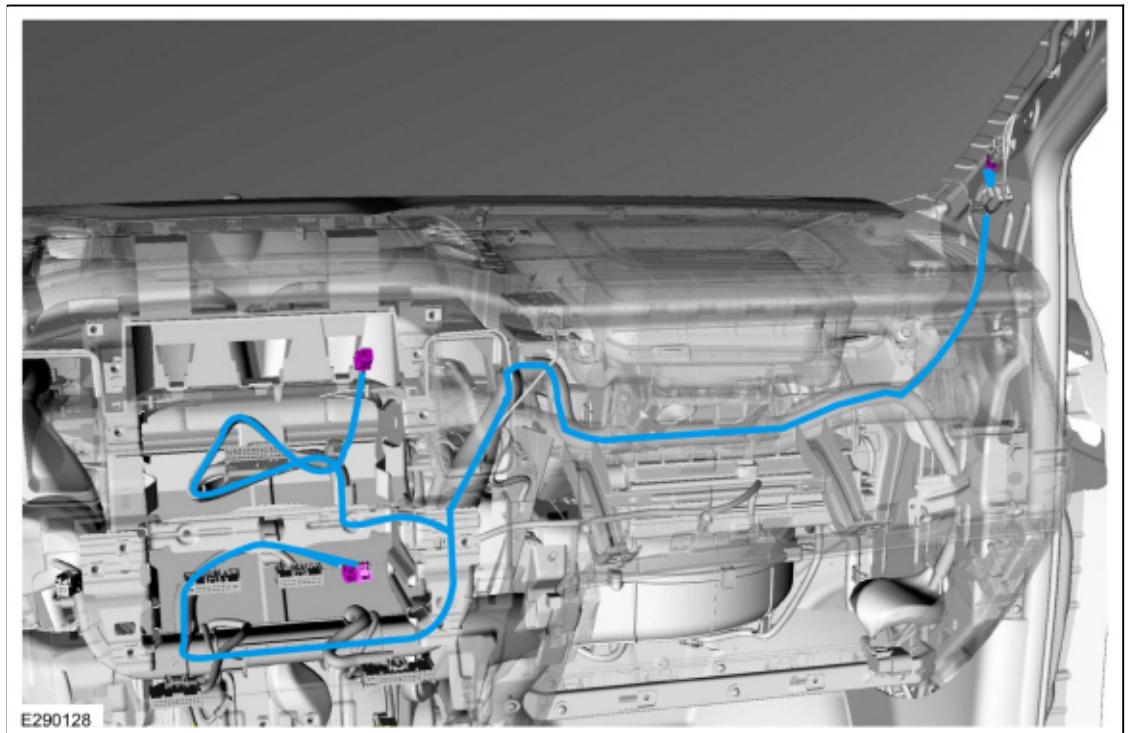
## Installation

### Instrument panel antenna cable

1. Cut the connector ends off the sattelite/GPS antenna cable.



- Overlay using the routing shown and secure the new satellite/GPS antenna cable to the instrument panel wiring harness, as necessary to prevent NVH concerns.



- To install, reverse the removal procedure.

#### **Headliner antenna cable**

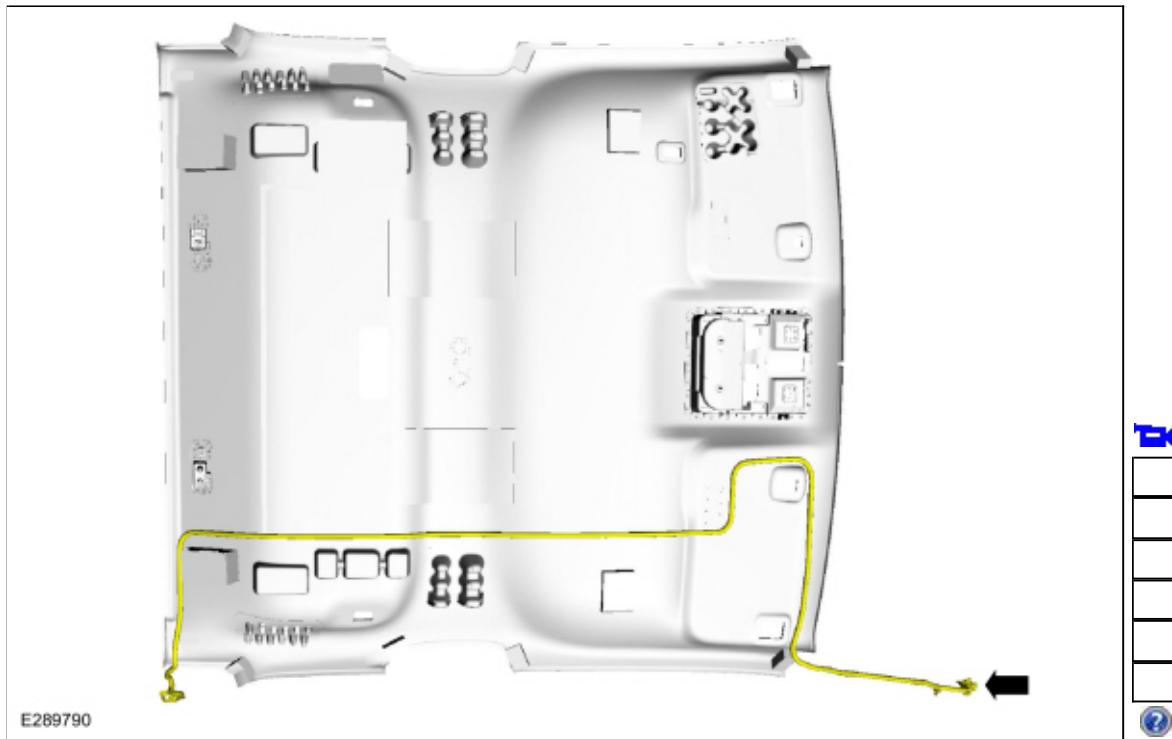
**NOTE:** Obtain the specified adhesive commercially. Depending on the headliner and satellite radio/GPS antenna cable, the purchase of multiple tubes is suggested.

- NOTE:** Supercab headliner routing shown, all other routings similar.

Install the satellite radio/GPS antenna cable onto the headliner.

- Position the new satellite radio/GPS antenna cable onto the headliner, making sure the cable has enough length to be connected to the body/ roof connectors at the tape location(s) applied earlier. Apply tape to temporarily hold the satellite radio/ GPS antenna cable in position on the headliner.
- Apply the adhesive in the same location as the factory installed adhesive along the full length of the antenna cable-to-headliner to avoid any NVH concern(s).

*Material: 3M™ Super-Fast Repair Adhesive / 04747*



5. To install, reverse the removal procedure.

#### Rear satellite/ antenna cable

6. To install, reverse the removal procedure.

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