

# Q-227R1



## SVE BULLETIN

### SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

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QVM Bulletin: Q-227R1

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Revised: 06 February, 2015

Revision	Update	Revision Date
Q-227R1	<ul style="list-style-type: none"><li>• Service kit number correction</li><li>• Built before dates added</li></ul>	06 February, 2015

### 2015 MY Transit Reverse Signal Access

**Models Affected:** All 2015 Model Year Transit vehicles

**Purpose:** To provide direction in obtaining a reverse signal for aftermarket accessories such as back up alarms and back up cameras

**Background:** 2015 MY Transit vehicles do not come equipped with a standard customer accessible provision for reverse signal. The factory installed tail lamp reverse circuits are designed to power the factory installed reverse lamps and cannot support additional electrical loads. Upfitters installing aftermarket equipment that requires a reverse signal are directed to use the reverse trailer tow circuit. This circuit is fuse protected to 10 amps. The following steps are to be used to determine what equipment features the vehicle may be equipped with, and how to access the reverse signal. Please note that some vehicles may require a re-flash to activate the reverse circuit. Vehicles built after 01/28/15 will have this new programming built in.

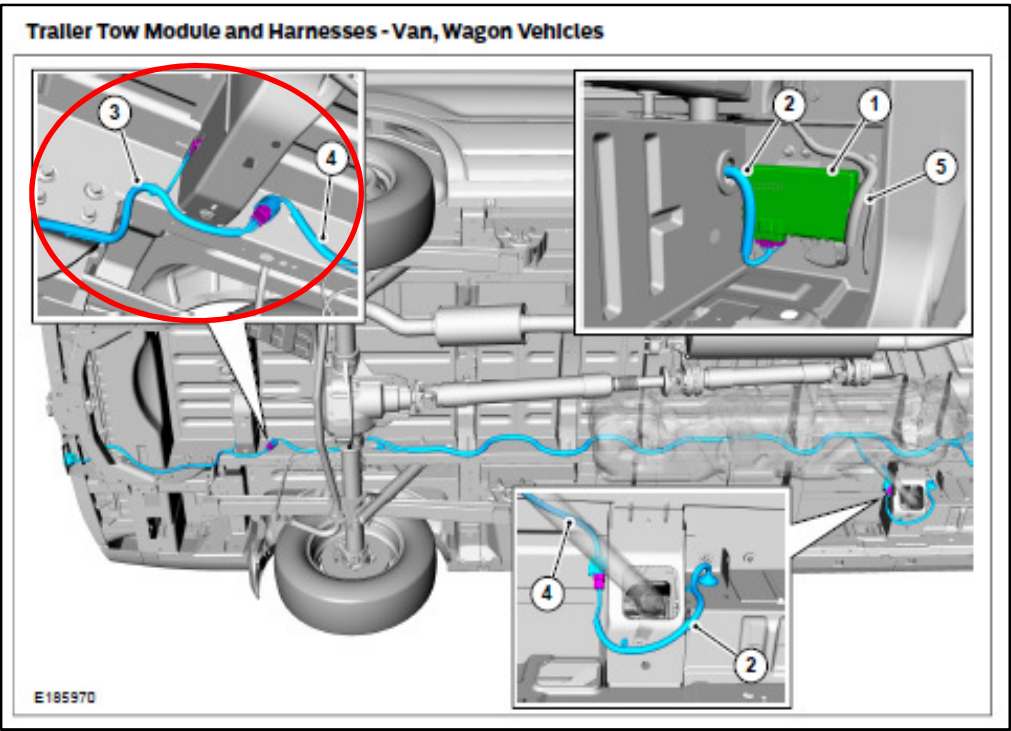
**Procedure:** The modifier will need to determine the equipment level of the vehicle before proceeding. There are three possible configurations:

1. Vehicle is equipped with the factory trailer tow feature.
2. Vehicle is not equipped with a trailer tow option but has trailer tow wiring body harness.
3. Vehicle has neither the trailer tow wiring, nor the trailer tow body harness. (Built before 01/28/15).

1. **Vehicles equipped with the trailer tow feature (53B-trailer wiring provision or 59B-heavy duty trailer tow package)**

- Vehicles equipped with a trailer tow option (53B-trailer wiring provision or 59B-heavy duty trailer tow package), or were built after 01/28/15 will have both the BCM programming and trailer tow wiring to the rear of the vehicle. You may determine if your vehicle is equipped with either of these options by examining the optional equipment listed on the window sticker, or inspecting the vehicle.

- 1)Vehicles with the heavy duty trailer tow provision will have a hitch and trailer lighting connector socket.
- 2)Vehicles with the trailer wiring provision will have a connector at the end of the underbody. See Figure 1, item 4.

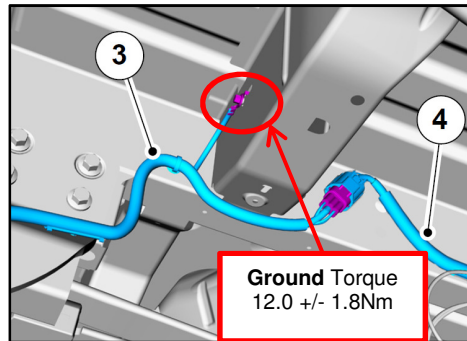


**Figure 1:**  
**Harness Location**

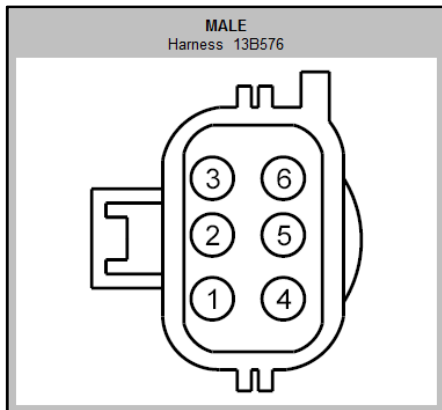
Item	Description
1	Trailer Tow Module
2	Trailer Tow Module Jumper
3	Trailer Tow Socket Jumper (13B576-K)
4	Fuel Tank Harness (14406)
5	Main Harness

- Accessing Reverse circuit on vehicles equipped with the trailer tow feature (53B-trailer wiring provision or 59B-heavy duty trailer tow package)
  - 1) Vehicles with the Trailer Tow feature have the Trailer Tow backup circuit (CAT16) present in the 14406 fuel tank harness. Figure 1, Item 4 shows the 14406 fuel tank harness where this circuit is located.

- 2) Pin 4 (the Gray/Brown wire) can be used to access the reverse signal. A ground eyelet can be stacked on the existing Trailer Tow Ground eyelet shown circled in RED in Figure 2 below. Ground screw **MUST** be torqued **12.0 ± 1.8 Nm**.



**Figure 2:**  
Ground Location



Pin	Circuit	Gauge	
1	CAT28 (YE)	16	
2	CAT29 (GN)	16	
3	CAT17 (BN)	12	
4	<b>CAT16 (GY-BN)</b>	<b>16</b>	<b>Trailer Reverse Lamps</b>
5	CAT23 (GY-YE)	12	
6	CAT19 (BU)	12	

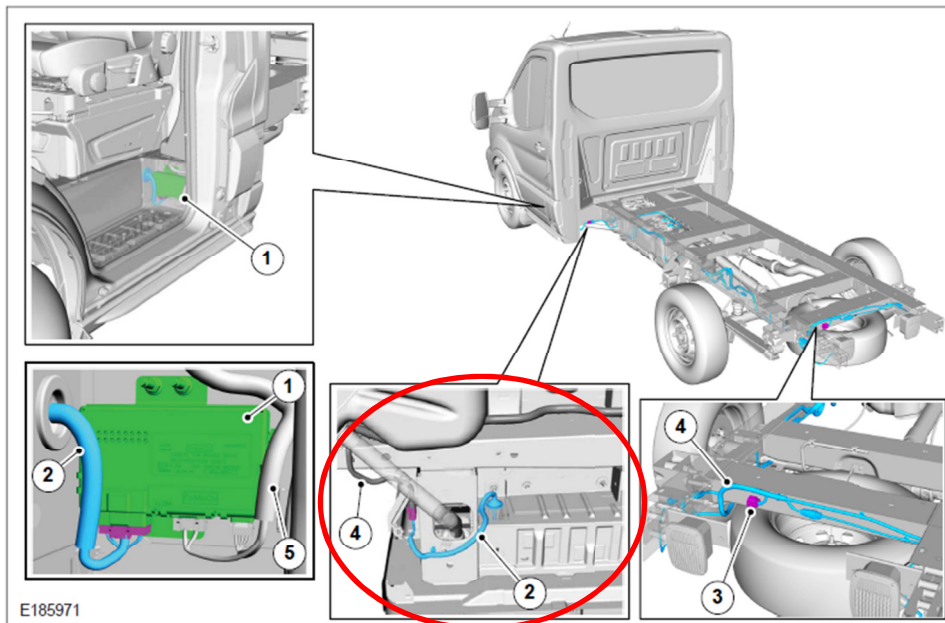
**Figure 3:** Connector pin out

## 2. Vehicles not equipped with a trailer tow feature, but with the Trailer Tow Body Harness.

- Vehicles without the trailer tow feature can still have the trailer tow reverse circuit present but not active in the vehicle. All strip chassis/ cutaway vehicles, most Van/busses, and all vehicles built after 01/28/15 have this circuit present at the end of body.

**NOTE:** Vehicles built before 01/28/15 that are not equipped with the trailer tow feature will require a BCM re-flash from a Ford dealer. Please refer to SSM 44901 in OASIS for more information.

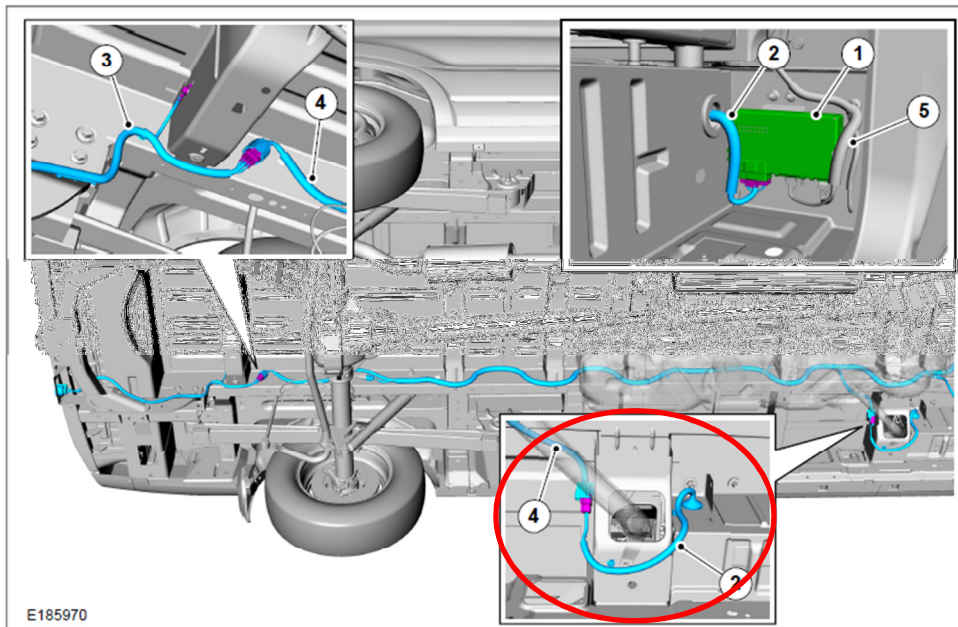
#### Trailer Tow Module and Harnesses - Chassis Cab Vehicles



**Figure 5:**  
Chassis Cab/ Cut-away TT harness  
location without Trailer Tow Feature

- To determine if the vehicle has the TT reverse circuit present in the body harness, look to see that the BLUE connector circled in RED in Figure 4 (Figure 5 for strip chassis/ cut away) is present and capped off. If this connector is present then the Trailer Tow Reverse circuit is present at this location.
- Accessing reverse circuit on vehicles not equipped with a trailer tow feature but with the trailer Tow Body harness:

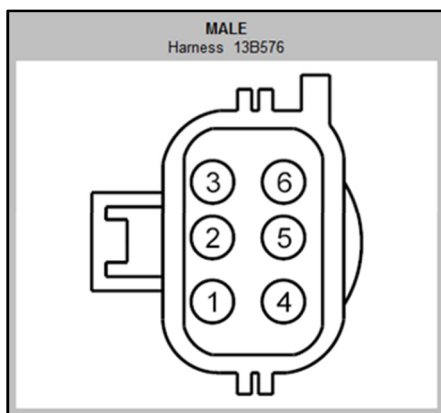
#### Trailer Tow Module and Harnesses - Van, Wagon Vehicles



**Figure 4:**  
Van/ Wagon TT Harness location  
without Trailer Tow Feature

**NOTE:** Vehicles built before 01/28/15 that are not equipped with the trailer tow feature will require a BCM re-flash from a Ford dealer. Please refer to SSM 44901 in OASIS for more information.

1. Obtain Service Part #: 1U2Z-14S411-BUA from Ford Customer Service.
2. Item 3 (13B576-K\* harness) will not be present. A delete cap will be installed on the 14406/13B576-K\* interconnect.
3. Remove this delete cap from the 14406.
4. Pin 4 of service part 1U2Z-14S411-BUA is the Trailer Tow Back Up signal. Use this circuit to wire in to the aftermarket equipment. Ground must be provided separately from this pigtail. See the Transit BEMM for grounding locations.
5. Unused circuits from the pigtail must be sealed to prevent water intrusion into the inline connector.



Pin	Circuit	Gauge	
1	CAT28 (YE)	16	
2	CAT29 (GN)	16	
3	CAT17 (BN)	12	
4	<b>CAT16 (GY-BN)</b>	<b>16</b>	<b>Trailer Reverse Lamps</b>
5	CAT23 (GY-YE)	12	
6	CAT19 (BU)	12	

**3. Vehicle not equipped with either the trailer tow wiring, or the trailer tow body harness (Built before 01/28/15).**

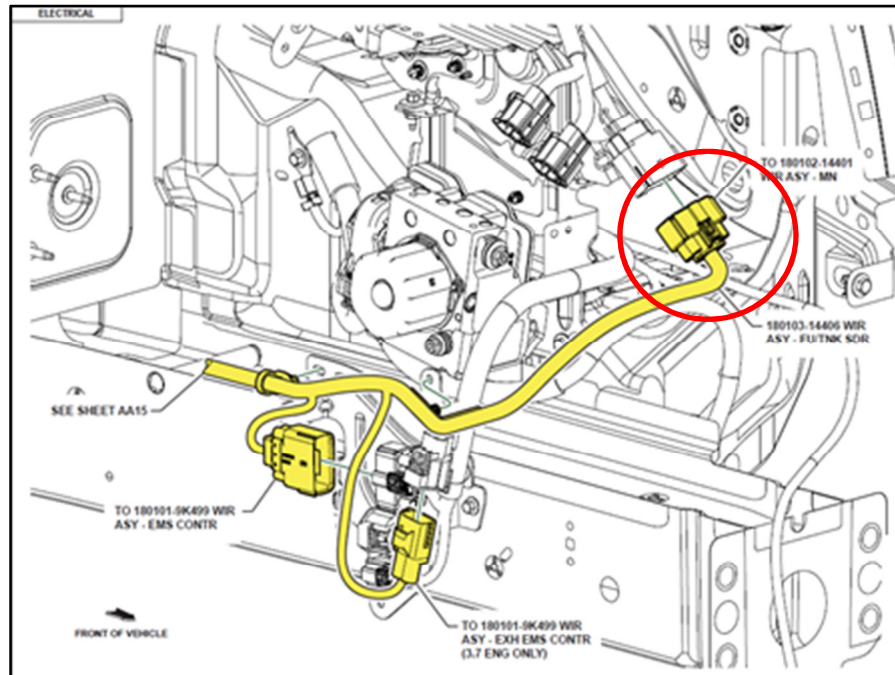
- If the vehicle has been inspected as described in 1 and 2 above and found not to have either the trailer tow feature or the trailer tow body wiring harness, then the vehicle does not have the trailer tow reverse circuit present. The Trailer Tow reverse circuit will need to be accessed in the engine compartment. Vehicles built after 01/28/15 will have this circuit in the harness present - see 2 (Vehicles not equipped with a trailer tow feature, but with the Trailer Tow Body Harness) above.

**NOTE:** Vehicles built before 01/28/15 that are not equipped with the trailer tow feature will require a BCM re-flash from a Ford dealer to activate the reverse signal. Please refer to SSM 44901 in OASIS for more information.

- Accessing reverse circuit on vehicle with neither the trailer tow wiring, nor the trailer tow body harness:

**NOTE:** Vehicles built before 01/28/15 that are not equipped with the trailer tow feature will require a BCM re-flash from a Ford dealer to activate the reverse signal. Please refer to SSM 44901 in OASIS for more information.

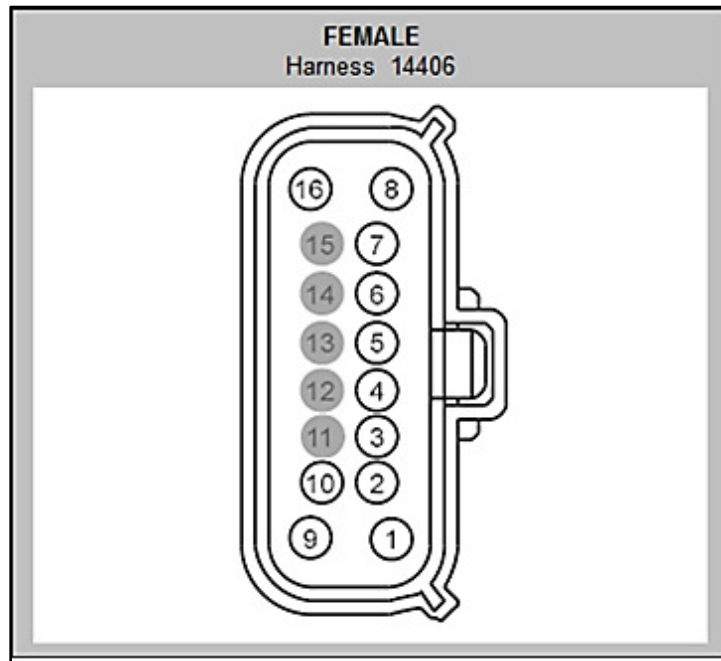
1. Obtain Service Kit #: **DU2Z-14474-FA** from Ford Customer Service. This is a terminal/wire seal crimped to 300mm of wire. It will be installed into the 14406 portion of the 14401/14406 16-way inline connection later.
2. Find 14401/14406 16-way inline connector shown in figure 6 below. This is located at the front face of the Engine Junction Box Bracket.
3. Disconnect the 14401/14406 16-way inline connection.



**Figure 6:**  
Location of 16-way connector in engine compartment

4. Remove the terminal lock from the female side of this connection (14406-Yellow highlighted side).
5. Remove the Plug Seal from cavity 8 of the 14406 harness female connector (See Figure 7 below).





**Figure 7:**  
14406 Harness  
Connector Pin-out

6. Insert the circuit from service kit DU2Z-14474-FA into cavity #8 of the 14406 16-way connector.
7. Reinstall terminal lock.
8. Reconnect 14401 to 14406 16-way inline connector.
9. Splice necessary length of wire to this newly added circuit. Route and secure to the existing path of the 14406 harness to rear of vehicle where the aftermarket equipment will be installed.

If you have any questions, please contact the Ford Truck Body Builders Advisory Service as shown in the header of this bulletin.