



## SVE BULLETIN

### SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

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QVM Bulletin: Q-157R3

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## **2011 – 2016 F-Series Super Duty Upfitter Switches Installation**

Revision	Update	Revision Date
Q-157R2	<ul style="list-style-type: none"><li>• Added additional connector location information (Fig 1)</li><li>• Added additional Super Duty pickup installation requirements to the Description section</li></ul>	
Q-157R3	<ul style="list-style-type: none"><li>• Revised Model Year Effectivity</li></ul>	17 February, 2017

**Models Affected** All 2011- 2016 Model Year F-250/350/450.

### **Purpose**

To provide a procedure to install the Ford Upfitter Switches on F-Series Super Duty Trucks which were not ordered with the option 66S.

### **Description**

The Ford Upfitter Switches can be installed into the instrument panel on F250-450 trucks. All required parts can be purchased from your local Ford dealer (see Part List Table) and installed by following the installation procedure provided.

- For pickups equipped with the 6.7L diesel engine, the optional Extra Heavy Duty Alternator (200A) or Dual Alternators (357A) must be present to complete this modification or there is a risk of draining the battery and an eventual no start condition.
- For pickups equipped with the 6.2L gasoline engine, using the upfitter switches driving loads in excess of 20A (combined over the four switches) could drain the battery and cause a no start condition.

### **Installation Procedure**

1. Ensure the key is not in the ignition switch during the installation.
2. Remove trim panel below the steering column by pulling up & out.
3. Remove the blank tray by reaching behind and pressing firmly up and then out. It may be necessary to remove the panel below it to gain access.
4. Refer to the Electrical Installation drawing for steps 5 to 9.
5. Install the relay box on the driver's side to the left side of the lower trim panel opening.
6. Route the harness as shown and plug the middle connector on the upfitter harness into the 14401 harness at connector C215.
7. Attach the ground ring terminal to the IP frame fastener hole.
8. Connect the switches to the wiring harness connector and install the switches in the dash panel.
9. Connect harness fasteners as directed.

10. Turn the ignition key to run position and turn on the Aux 1 switch. The LED for Aux 1 switch should light. If it does not, check the connection and the grounding eyelet.
11. If the LED lights, then reinstall the trim panels.

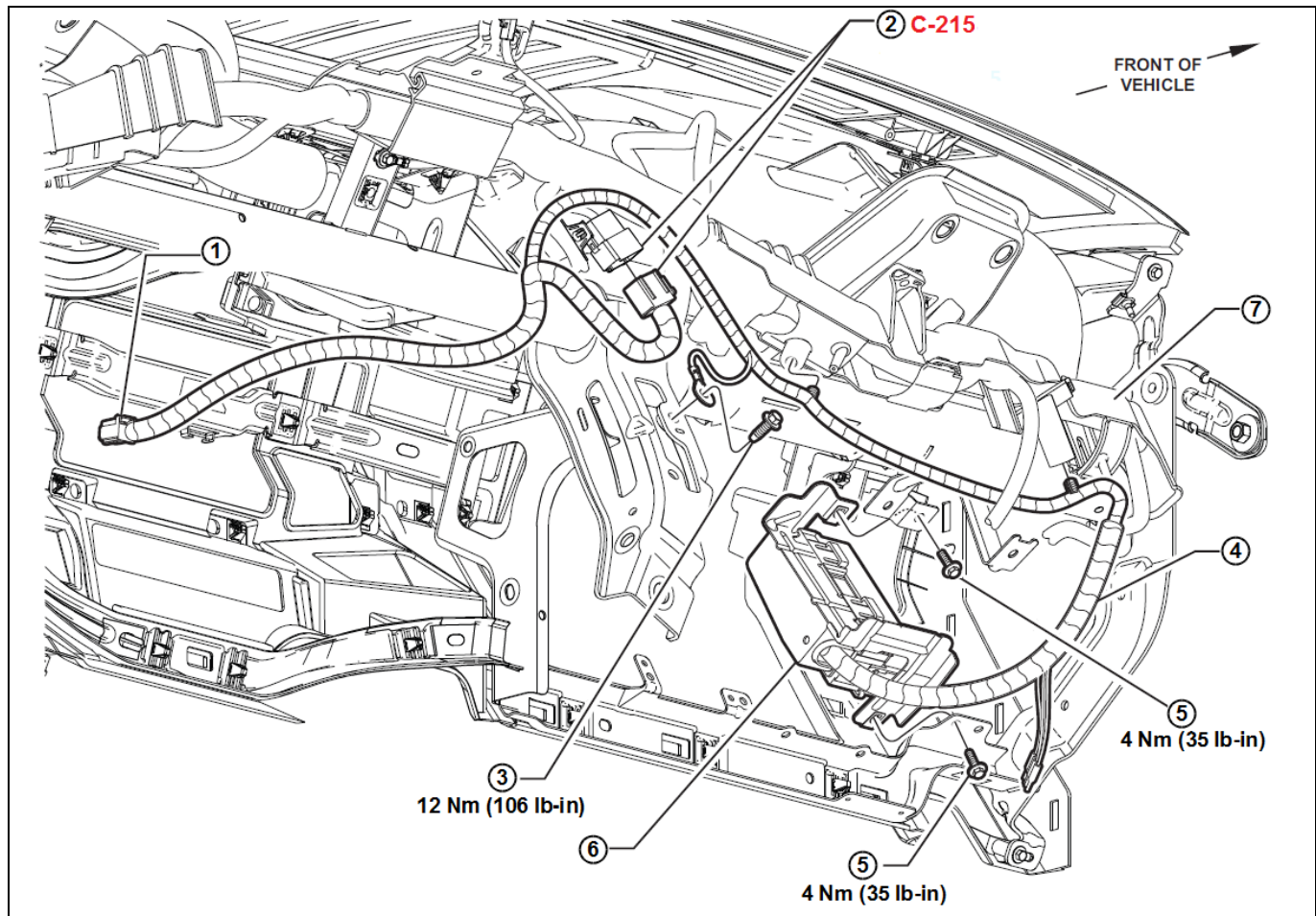
### **Parts List Table**

Part Number	Description
AL3Z-13D730-AA	Switch Assembly
BC3Z-14A303-A	Wire Harness with Relays and Fuse
8C3Z- 2513546-BA	Tray needed if Trailer Brake Controller is not used

### **6.7L Diesel Engine Pickup Alternator Upgrade**

- To upgrade from the standard alternator to dual alternators, refer to bulletin Q-160R1.
- To upgrade from the standard alternator to the 200amp Extra Heavy Duty Alternator (part number BC3Z-10346-A), please see the vehicle workshop manual for removal and installation procedures. A Ford IDS tool will be required to configure the PCM for the newly installed 200amp alternator.

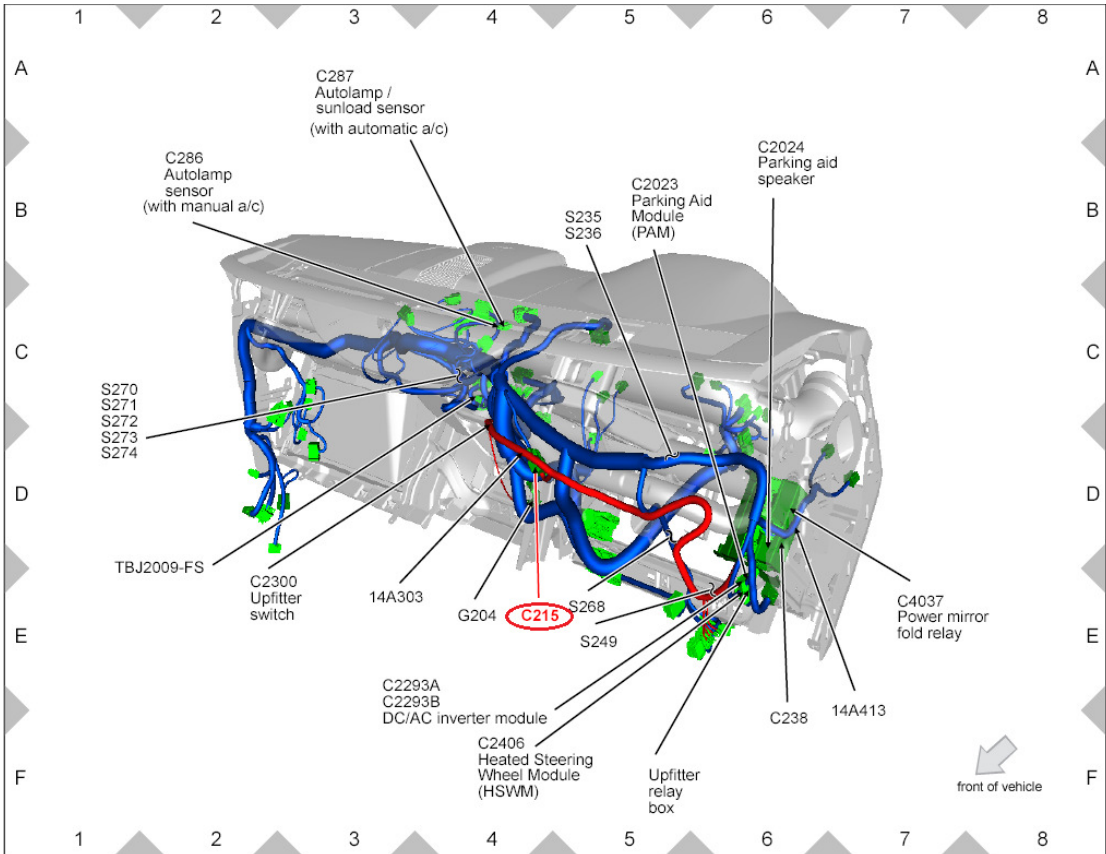
### **Connector C215, Relay Box Locations (provided as reference only)**



**Fig. 1: C-215, Relay Box & Harness**  
(view under dash, looking toward left rear of vehicle)

Item	Description
1	Upfitter switch electrical connector (part of 14A303)
2	Upfitter in-line connector to 14401 harness connector C-215
3	Upfitter relay Harness ground terminal screw

4	Harness assembly 14A303
5	Upfitter relay box screws (2 required)
6	Upfitter relay box (part of 14A303)



7	Harness 14401
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Fig. 2: C-215 Location (Alternate view)



Fig. 3:  
Finished installation of Upfitter Switches without Trailer Brake Controller (Coin Slot)

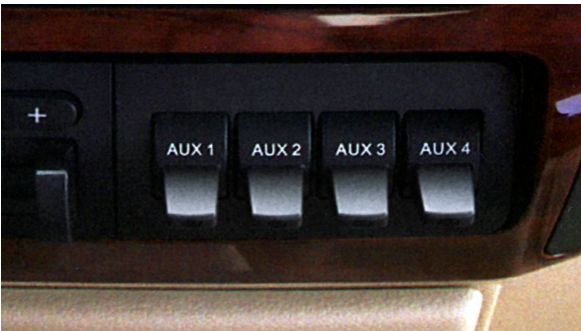


Fig. 4:  
Brake Controller Finished installation of Upfitter with Trailer Switches

Circuit Description

Switches	Circuit	Color	Fuse
Aux 1	CAC05	Yellow	25 Amp
Aux 2	CAC06	Green/Brown	25 Amp
Aux 3	CAC07	Violet/Green	10 Amp
Aux 4	CAC08	Brown	15 Amp

For further information on the 2011 MY Upfitter Switches, refer to QVM Bulletin Q117-R2.

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