



## SVE BULLETIN

### SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

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QVM Bulletin: Q-117

Date: September 26, 2007

## 2005 - 2007 F-Series Super Duty Upfitter Switches

**See Q117R1 for Model Year 2008 or Later at Link Below**

<https://www.fleet.ford.com/truckbbas/non-html/Q117R1.pdf>

**Models Affected** All 2005 Model Year F-250/350/450/550.

### **Purpose**

To utilize Ford Upfitter Switches on F-Series Super Duty trucks.

### **Description**

The Ford Upfitter Switches are optional instrument panel mount switches (Option Code 66S) (see Photo 1) that control passenger side mounted relays. These relays power four blunt cut wires that can be found beneath the steering column and behind the passenger compartment fuse panel also called the Central Junction Box (CJB). The wires are part of the harness connected to the "K" connector (C270K) on the back of the CJB (see Attachment II & III). The four wires are as follows (see Photo 3):

Switches	Circuit	Color	Fuse
Aux 1	1936	Orange/Light Green	30 Amp
Aux 2	1933	Orange	30 Amp
Aux 3	1934	Orange/Yellow	10 Amp
Aux 4	1935	Orange/Light Blue	10 Amp

To find the wires:

1. Remove the fuse panel trim cover below the steering column.
2. Remove the four fasteners holding the CJB.
3. Lower the CJB without disconnecting any connectors.
4. Locate connector "K" (see Attachment II & III) on the back of the CJB and the harness connected to it.
5. Locate the four blunt cut wires with shrink wrap on the harness connected to the "K" connector (See Photo 2).

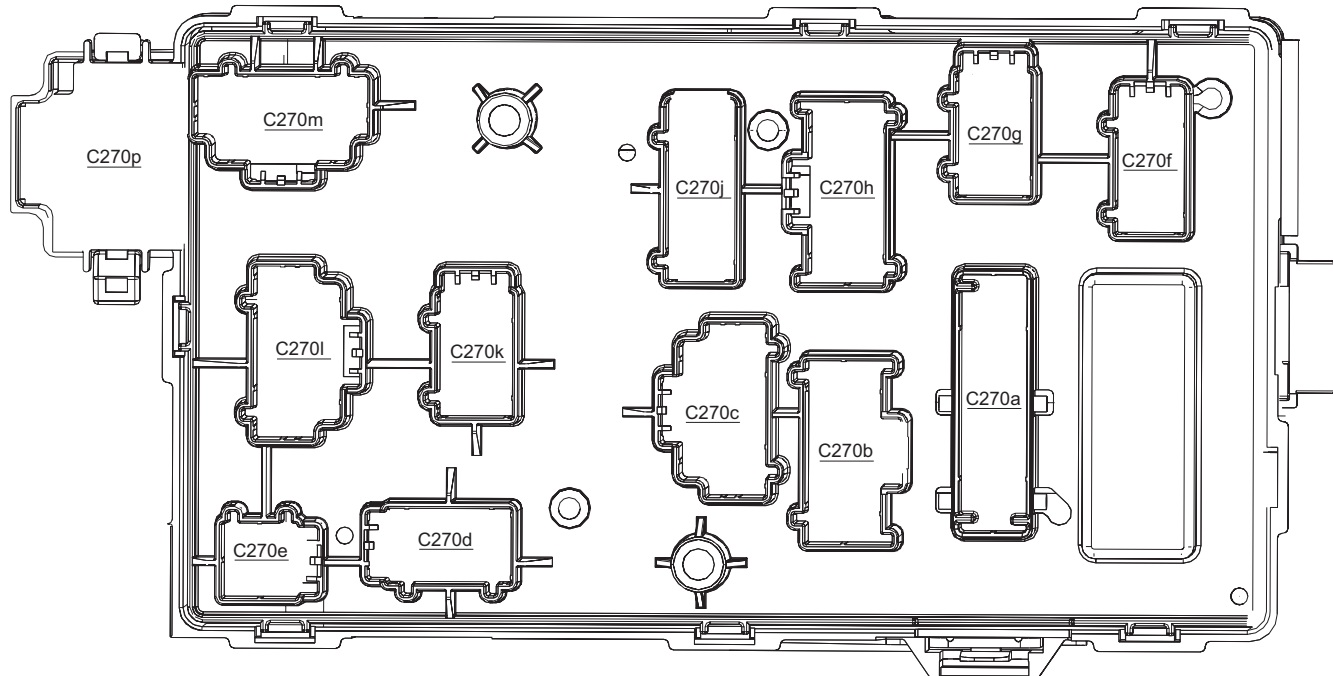
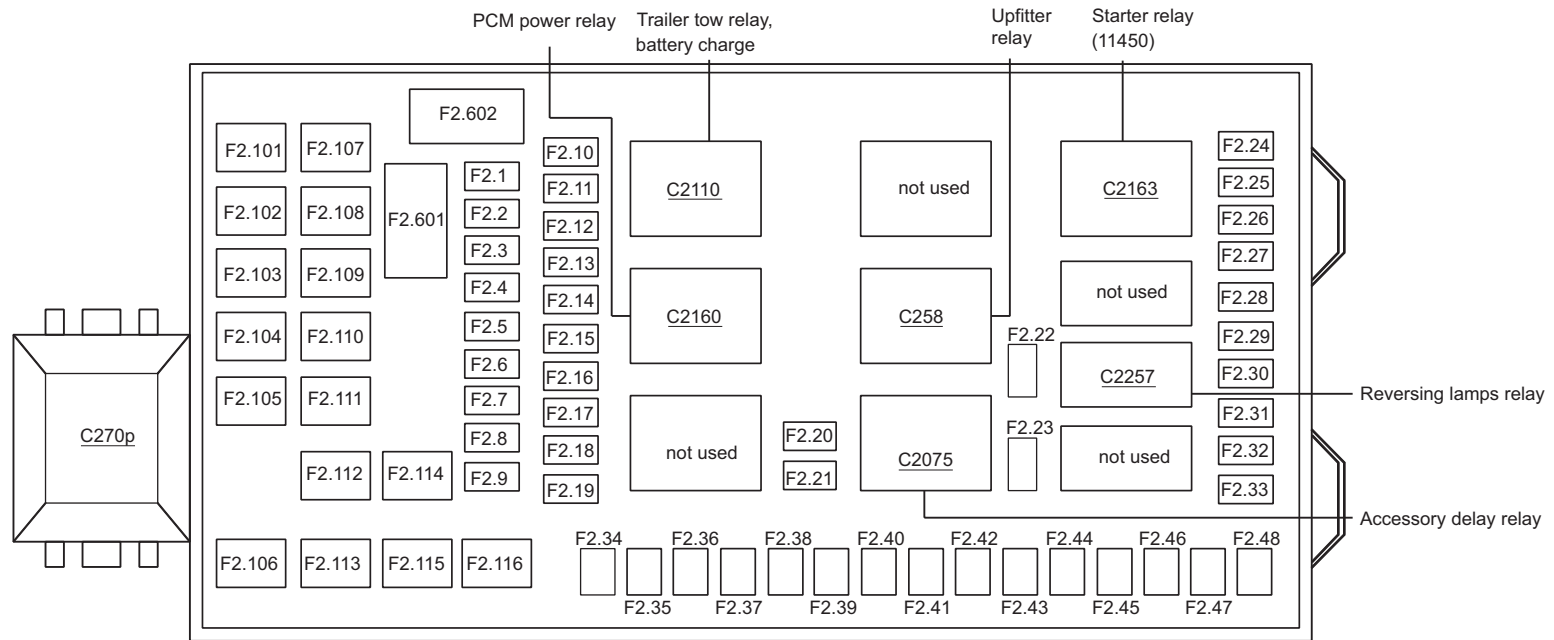
### **Operating Procedure**

The Upfitter Switches are operational when the ignition key is in the run position (see Attachment I). The Upfitter Switches cannot be utilized in any other operational mode. The power to the switches is relay controlled and was designed to operate in the "run" mode to reduce the possibility of draining the battery(ies).

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



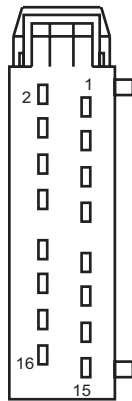
Central Junction Box (CJB) (14A067)



C270j (BK)

14A005

Central Junction  
Box (CJB)  
(14A067)



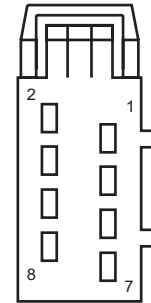
FEMALE

Pin	Circuit	Circuit function
1	-	not used
2	-	not used
3	956 (OG/LG)	Voltage supplied at all times (overload protected)
4	-	not used
5	-	not used
6	-	not used
7	59 (DG/VT)	HTD mirror relay, switched output
8	-	not used
9	-	not used
10	295 (LB/PK)	Voltage supplied in Run (overload protected)
11	194 (PK)	Accessory delay relay, switched output
12	14 (BN)	Power, Exterior lamps
13	-	not used
14	295 (LB/PK)	Voltage supplied in Run (overload protected)
15	962 (BN/WH)	Trailer tow relay, parking lamp, switched output
16	54 (LG/YE)	Battery saver relay, switched output

C270k (WH)

14A303

Central Junction  
Box (CJB)  
(14A067)



FEMALE

Pin	Circuit	Circuit function
1	-	not used
2	1447 (RD)	Voltage supplied at all times (overload protected)
3	-	not used
4	1717 (VT/OG)	Voltage supplied in Start and Run (overload protected)
5	19 (LB/RD)	Instrument illumination, feed
6	1445 (RD/LG)	Voltage supplied at all times (overload protected)
7	1446 (RD/LB)	Voltage supplied at all times (overload protected)
8	1448 (OG/RD)	Voltage supplied at all times (overload protected)

## Photos 1, 2, and 3 of Upfitter Switches



Photo 1: 2005 F-Series Super Duty Upfitter Switches (Option Code 66S)

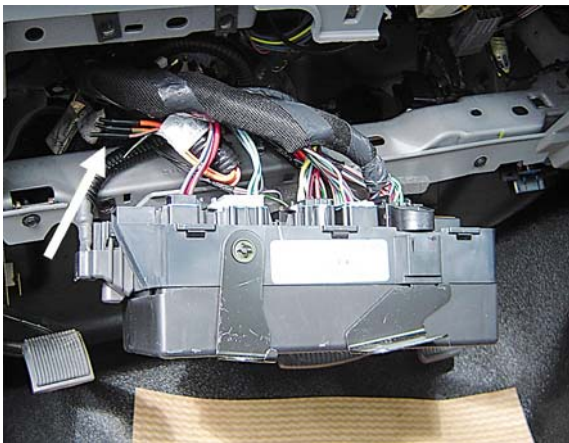


Photo 2: Location of the blunt cut wires controlled by the Upfitter Switches

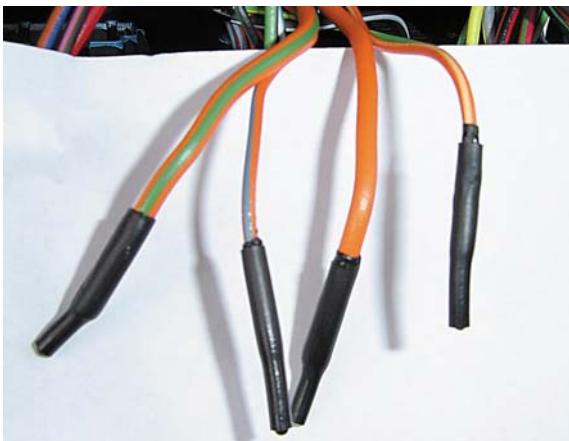


Photo 3: The four blunt cut wires as located in Photo 2



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QVM Bulletin: Q-117-R1

Date: June 7, 2007

## 2008 F-Series Super Duty Upfitter Switches

**Models Affected** All 2008 Model Year F-250/350/450/550.

### Purpose

To utilize Ford Upfitter Switches on F-Series Super Duty trucks.

### Description

The Ford Upfitter Switches are optional instrument panel mount switches (Option Code 66S) that control passenger side mounted relays. These relays power four blunt cut wires that are taped on a harness near the relay pack that can be found beneath the instrument panel and to the left of the steering column. The four blunt cut wires are as follows:

Switches	Circuit	Color	Fuse
Aux 1	CAC05	Yellow	30 Amp
Aux 2	CAC06	Green/Brown	30 Amp
Aux 3	CAC07	Violet/Green	10 Amp
Aux 4	CAC08	Brown	15 Amp

To find the wires:

1. Remove the trim cover below the steering column.
2. Locate the relay pack beneath the instrument panel and to the left of the steering column.
3. Locate the four blunt cut wires with shrink wrap on the harness near the relay pack.



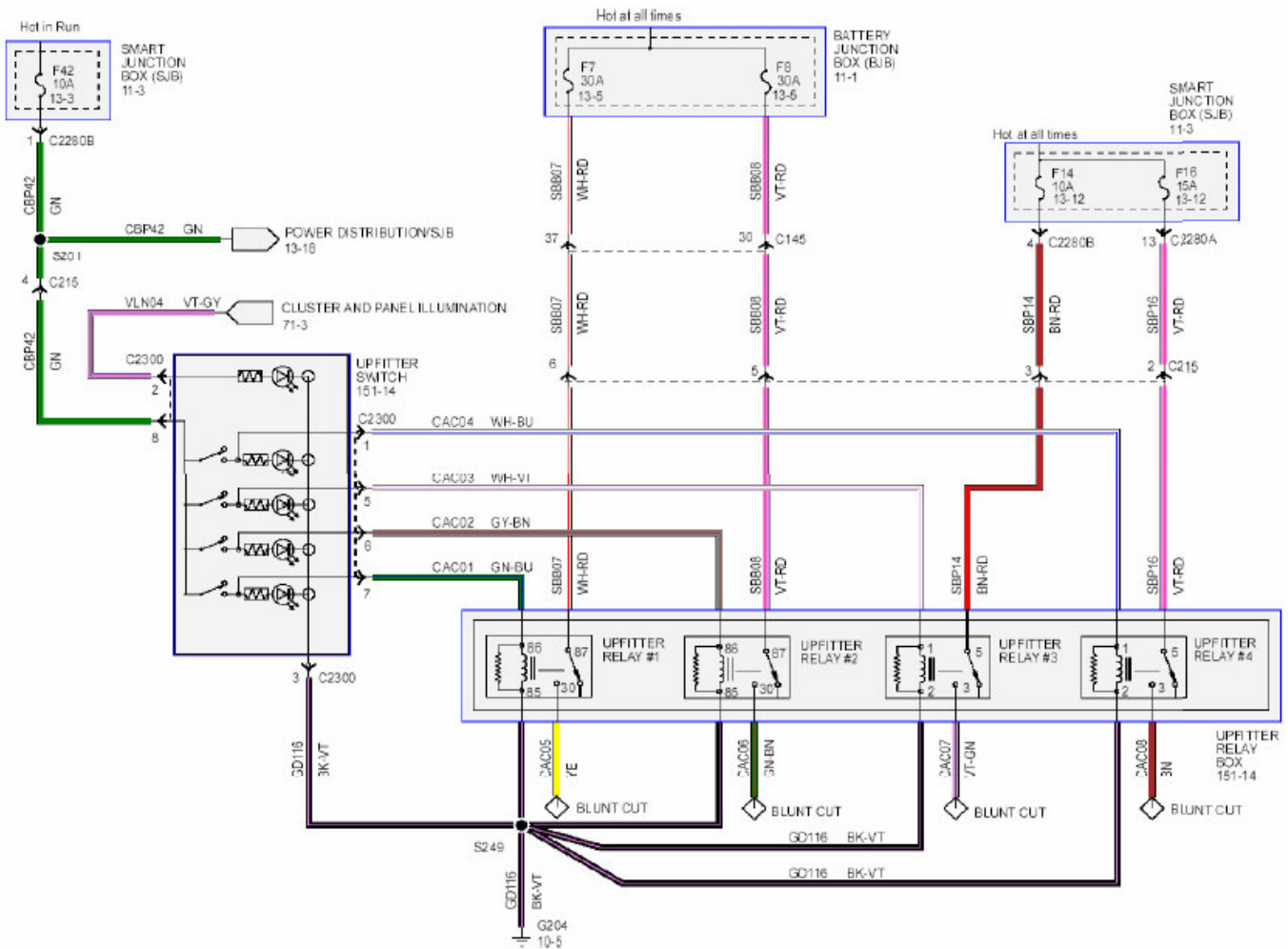
Four Blunt Cut Wires (Figure 1)



Four Blunt Cut Wires (Figure 2)

## Operating Procedure

The Upfitter Switches are operational when the ignition key is in the "RUN" position only. The power to the switches is relay controlled and was designed to operate in the "RUN" mode to reduce the possibility of draining the battery(ies).



Upfitter Switch Wiring Diagram (Figure 3)

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