

Q-252



SVE BULLETIN

SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

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2017 and later F-Series Super Duty Upfitter Switches

Models Affected: 2017 to present model year F-250/350/450/550 Super Duty Trucks with optional Upfitter Switches

Description:

The Ford Upfitter Switches are optional overhead console mount switches (Option Code 66S) that control under hood mounted relays. These relays power six blunt cut wires that are taped on a harness near the upfitter auxiliary relay box that can be found on the driver's side of the engine compartment. The six blunt cut wires are as follows:

| Switches | Circuit | Color | Fuse # | Rating |
|----------|---------|-----------------|--------|--------|
| Aux 1 | CB117 | Brown / Green | F10 | 25A |
| Aux 2 | CB114 | Violet / Orange | F9 | 25A |
| Aux 3 | CB116 | Blue / Green | F8 | 25A |
| Aux 4 | CB113 | Gray / Brown | F7 | 25A |
| Aux 5 | CB115 | Brown / Blue | F1 | 40A |
| Aux 6 | CB118 | Gray / Orange | F2 | 40A |

In addition to the upfitter switch blunt cut wires, this bundle contains the following blunt cut circuits:

| Description | Circuit | Color | Fuse # | Rating |
|--------------------|---------|---------------|--------|--------|
| Run/ Start Output | CB111 | Brown | F3 | 20A |
| Battery Hot Output | SB106 | Brown / Red | F6 | 20A |
| PTO Relay Control | CE924 | Blue / Green | N/A | N/A |
| PTO Relay Output | CB112 | Green / White | F5 | 25A |

All relays and fuses are located in the upfitter relay box.



Figure 1: 2017 Super Duty Upfitter switch location

NOTE: Upfitter Switches cannot be added to a vehicle that was not built with this option at production.

To find the blunt cut wires:

1. Open Hood
2. Locate the relay pack on the Left hand side (driver's side) of the engine compartment (see Fig. 2).
3. Locate bundle of 10 blunt cut wires with shrink wrap on the harness near the relay pack.

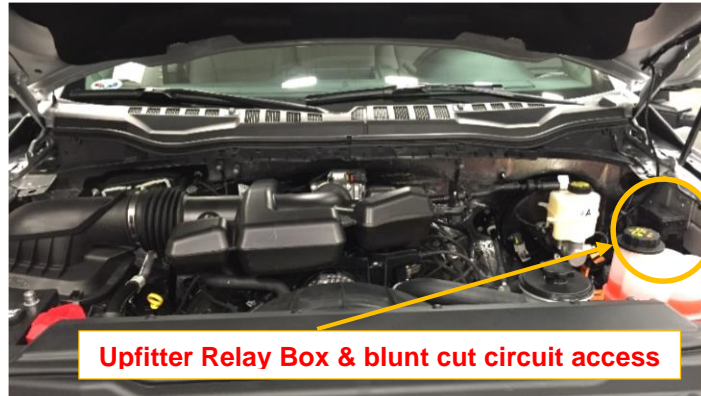


Figure 2: Upfitter Relay Box and upfitter switch blunt cut output location.

Accessing blunt cuts wires:

On vehicles with dual batteries, removing the upfitter relay box will provide additional access to the blunt cut wires.

1. Disconnect the electrical connector.
2. Release tabs and lift upwards to remove.

To reinstall upfitter relay box:

1. To install, reverse the removal procedure.

Configuring Upfitter Switches 5 and 6 to Hot-at-all times.

Upfitter relay box fuse F4 (5A) can be put into one of two positions. In Position A, auxiliary switch 5 and 6, operate with the ignition in RUN or START. In Position C, auxiliary switch 5 and 6 operate hot at all times.

The following procedure describes how to configure #5 and #6 upfitter switches to Battery hot.

1. Remove upfitter relay box cover.
2. Remove 5 Amp fuse located on the lower right hand corner of the upfitter relay box.
3. Slide the contact guard from position A (left) to position C (right) position.
4. Re-insert 5 Amp fuse into position C (right) position.
5. Replace relay box cover.

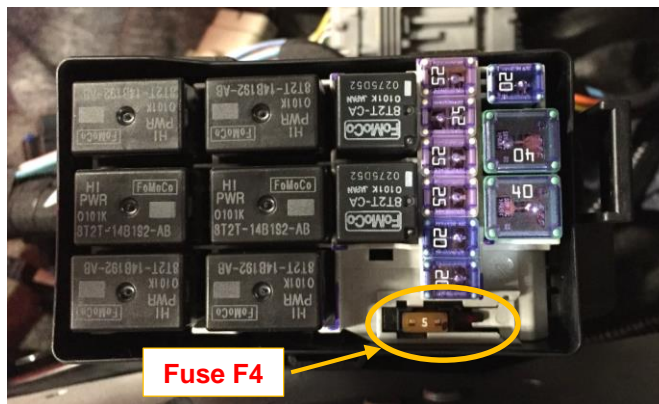
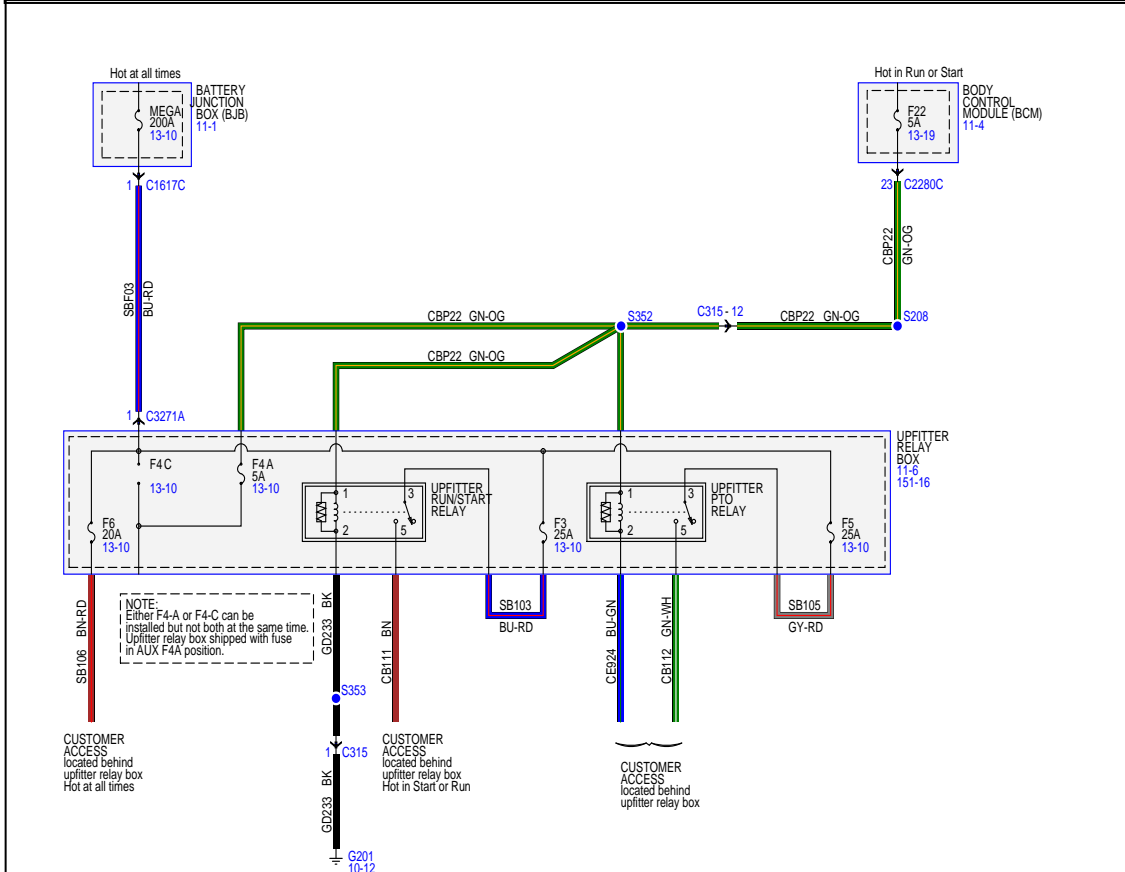
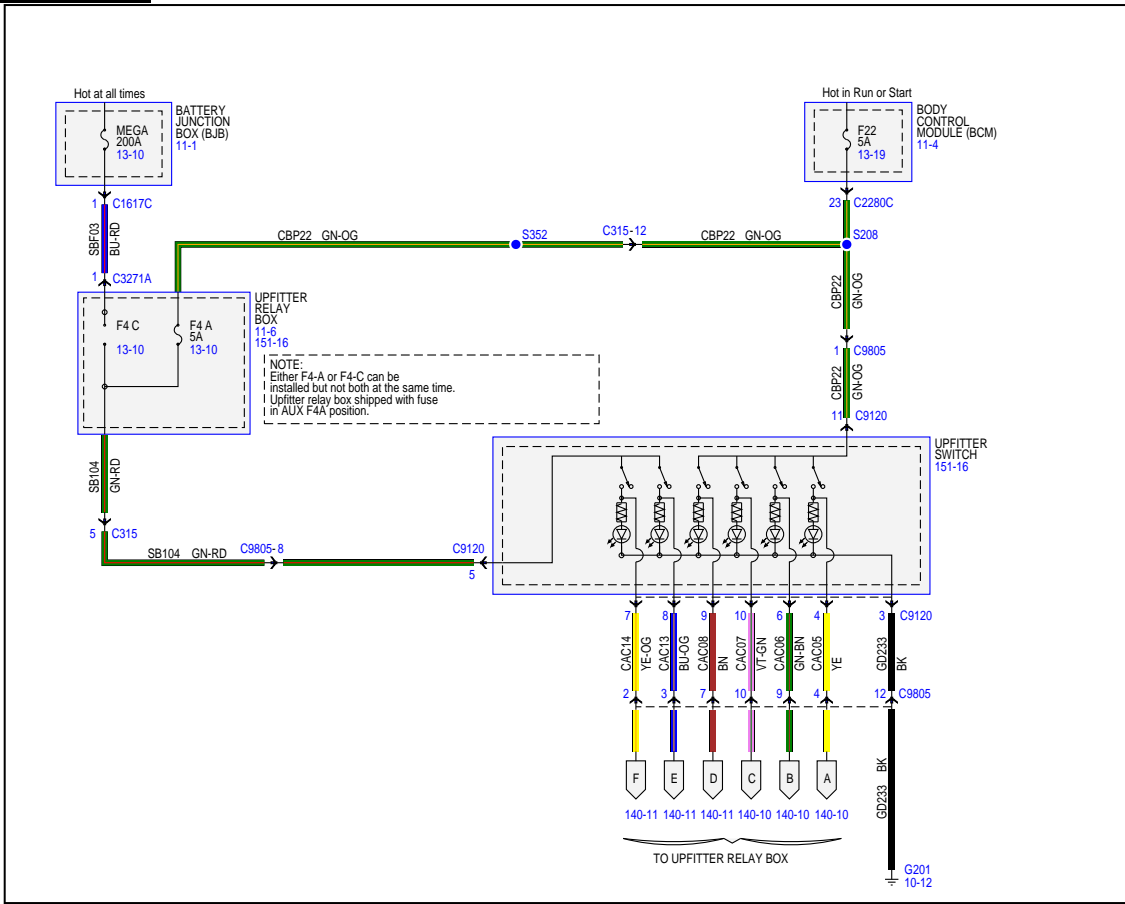
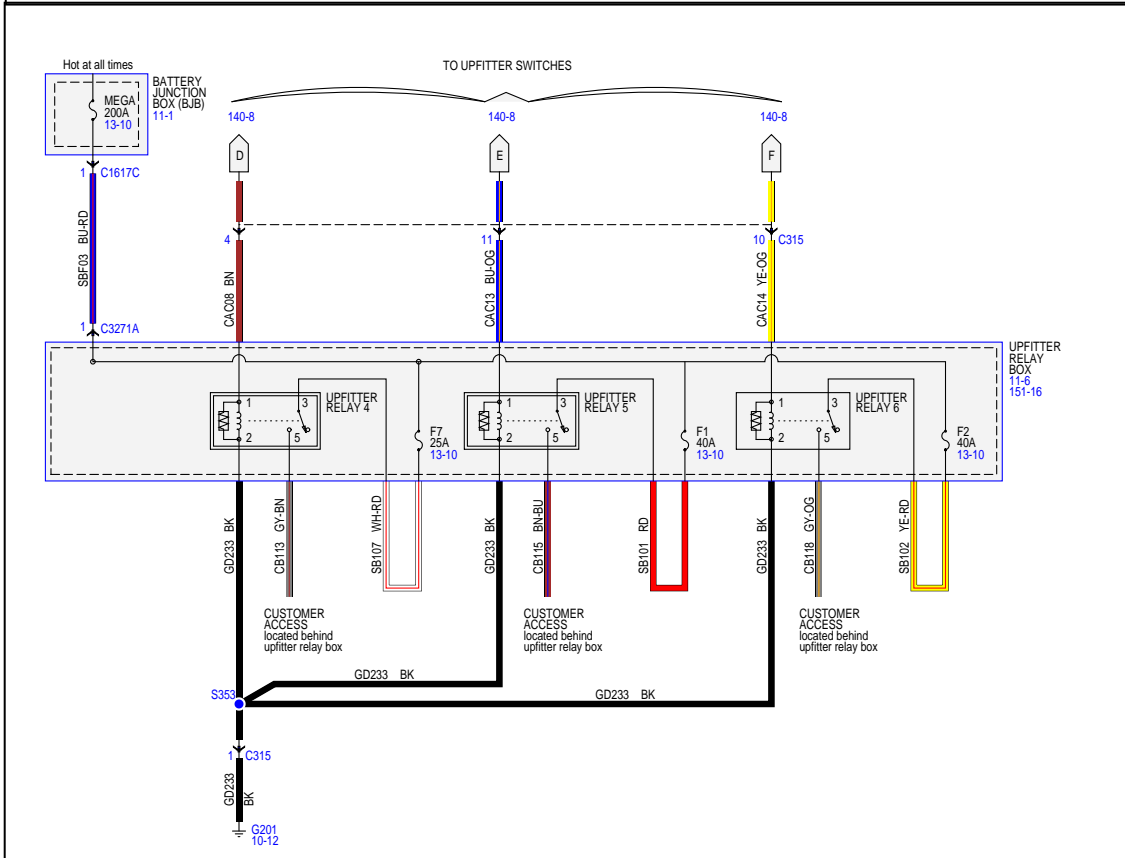
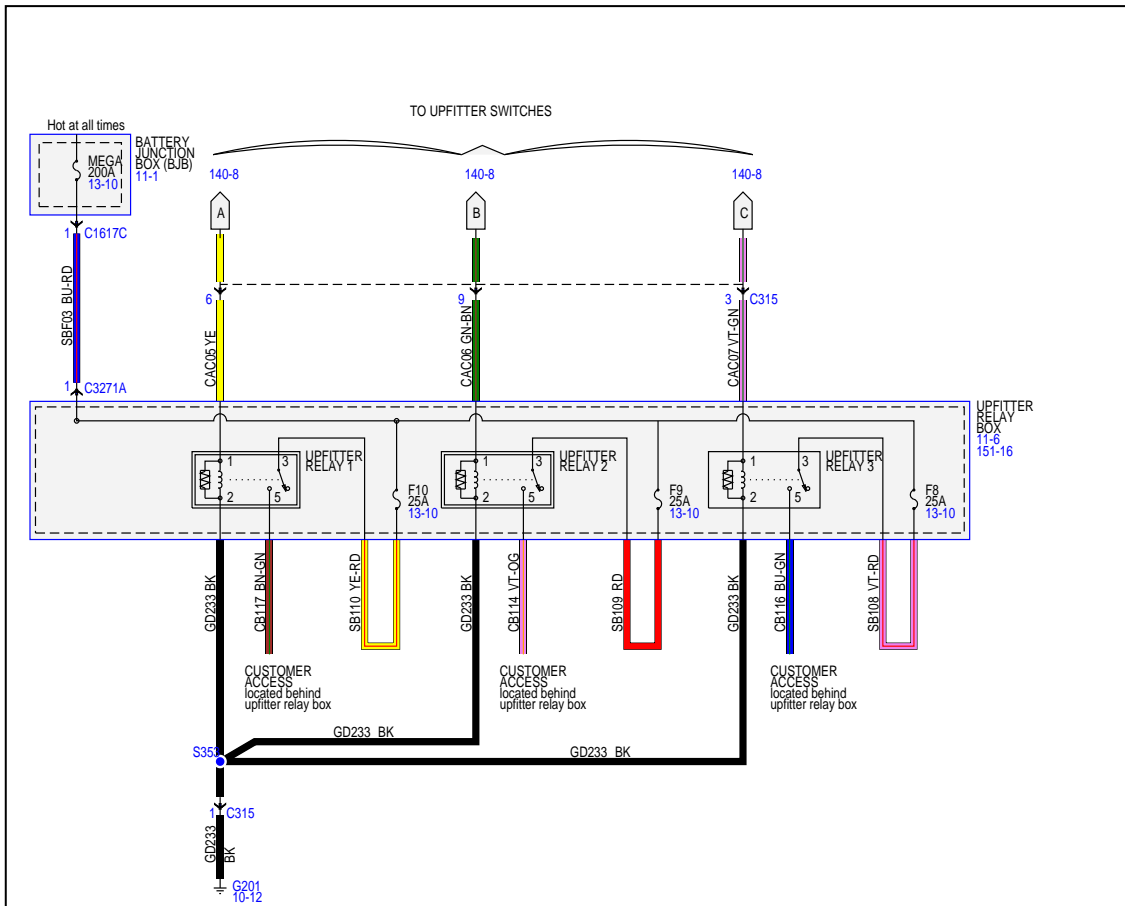


Figure 3: Fuse F4 location

Wiring Schematics



Wiring Schematics (Cont.)



Relay and Fuse diagram

