

AUXILIARY SWITCHES

Starting in 2019 vehicles equipped with Auxiliary (Aux) Switches will have 6 Aux Switches. These switches are integrated into the vehicle electrical architecture and communicate over a LIN bus to the vehicle. The low current outputs control relays in the Aux Power Distribution Center (PDC). The outputs of the relays go to the 2 four way connectors (light gray and dark gray) that are located on the inboard side of the Aux PDC. The vehicle comes with a kit containing wires terminated with the proper terminal that can be installed into the 4 way connectors and spliced to. The Aux switch functionality can be programmed to change how each one works.



- 6 Switches located in the lower switch bank of the I/P – all are auxiliary switches
- All aux switches can be programmed in the EVIC to be battery or ignition function, momentary or latching, and remember last state (for ignition operation). Please see the programming flow chart on page 6.
- Fuse sizes (rating) for the switches are customer choice via fuse relocations. See the Upfitter Schematic for detailed instructions.
- Connections to the auxiliary switch controlled outputs are located in two 4-way connectors mounted on the side of the Auxiliary Power Distribution Center (PDC) located under hood on the drivers side against the bulkhead.
- The caps of the two 4-way connectors (light gray and dark gray) are used in conjunction with the eight wires that have ¼ inch blade terminals crimped on them that are in the upfitter wiring kit that comes with the vehicle. Remove the green plugs for the circuits that are to be used and insert the blade terminal with the seal around the wire into the desired cavity. It will “click” into place.

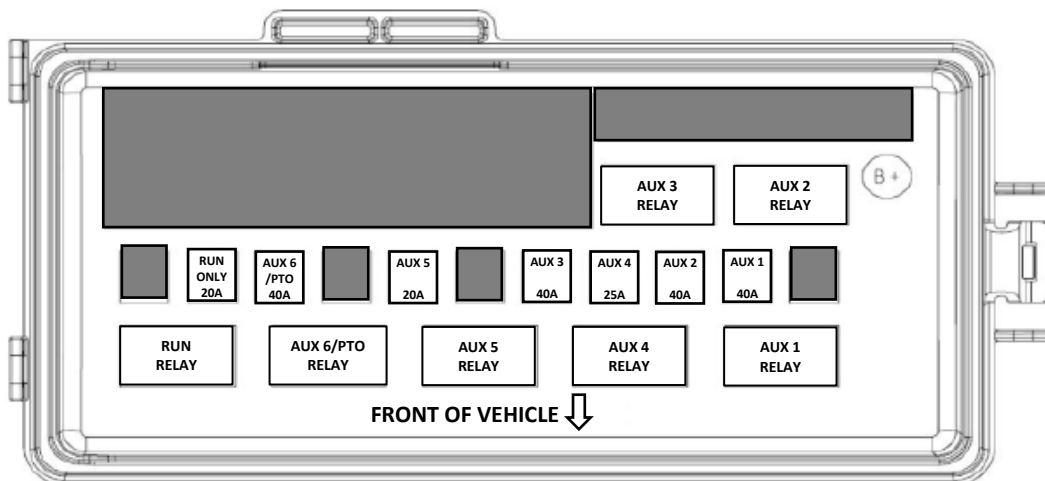
AUXILIARY POWER DISTRIBUTION CENTER

Auxiliary Power Distribution Center (Aux PDC)

The Aux PDC contains 7 relays related to auxiliary functions. Six relays are for Aux switch outputs. There is also an Upfitter Ignition relay as well. The fuses for the outputs can be moved to provide the necessary current depending on the specific Aux output load. The fuses are not to exceed the total current as noted in the Upfitter Schematics portions of the information in the Upfitter Schematics are shown below. Refer to the Upfitter Schematics for detailed schematics of the system.

AUXILIARY PDC Topology

The Aux related fuses and relay locations are shown below. Additional relays and fuses located in the Aux PDC that are not related to Auxiliary functions are grayed out/not shown. These NON-Auxiliary fuses and relays are not to be manipulated or relocated.



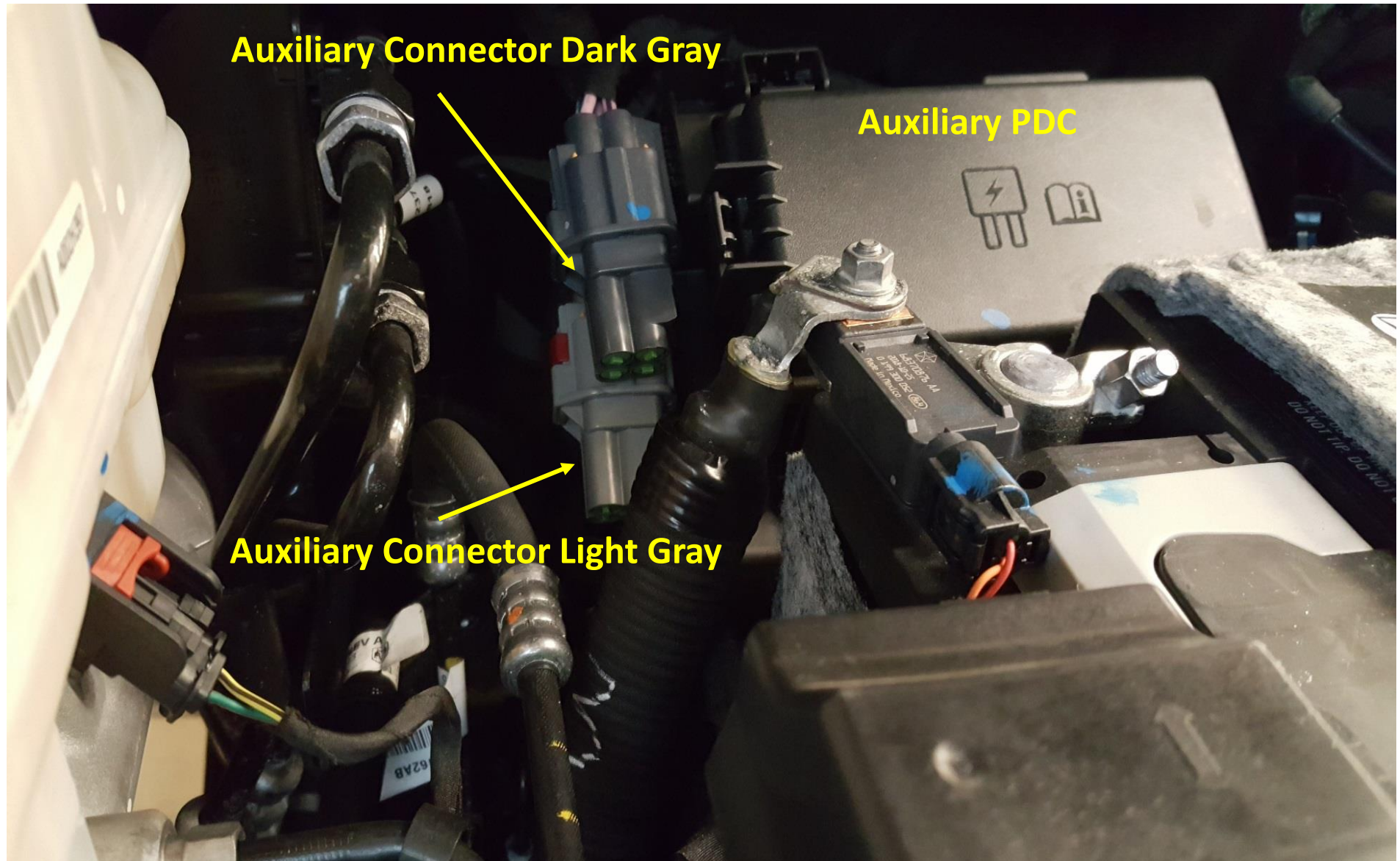
Max Combined Fuse “rating” allowed for Aux Switches 1,2,3,4,5,6 and Run Only is 225A. These Aux/PTO/Run fuses can be relocated to accommodate the loading on them. The maximum allowable total continuous amperage is 135A. Maximum fuse rating in any one location is 40A.

***The upfitter/customer is responsible for placing the correct fuse in the correct location depending on the actual load.**

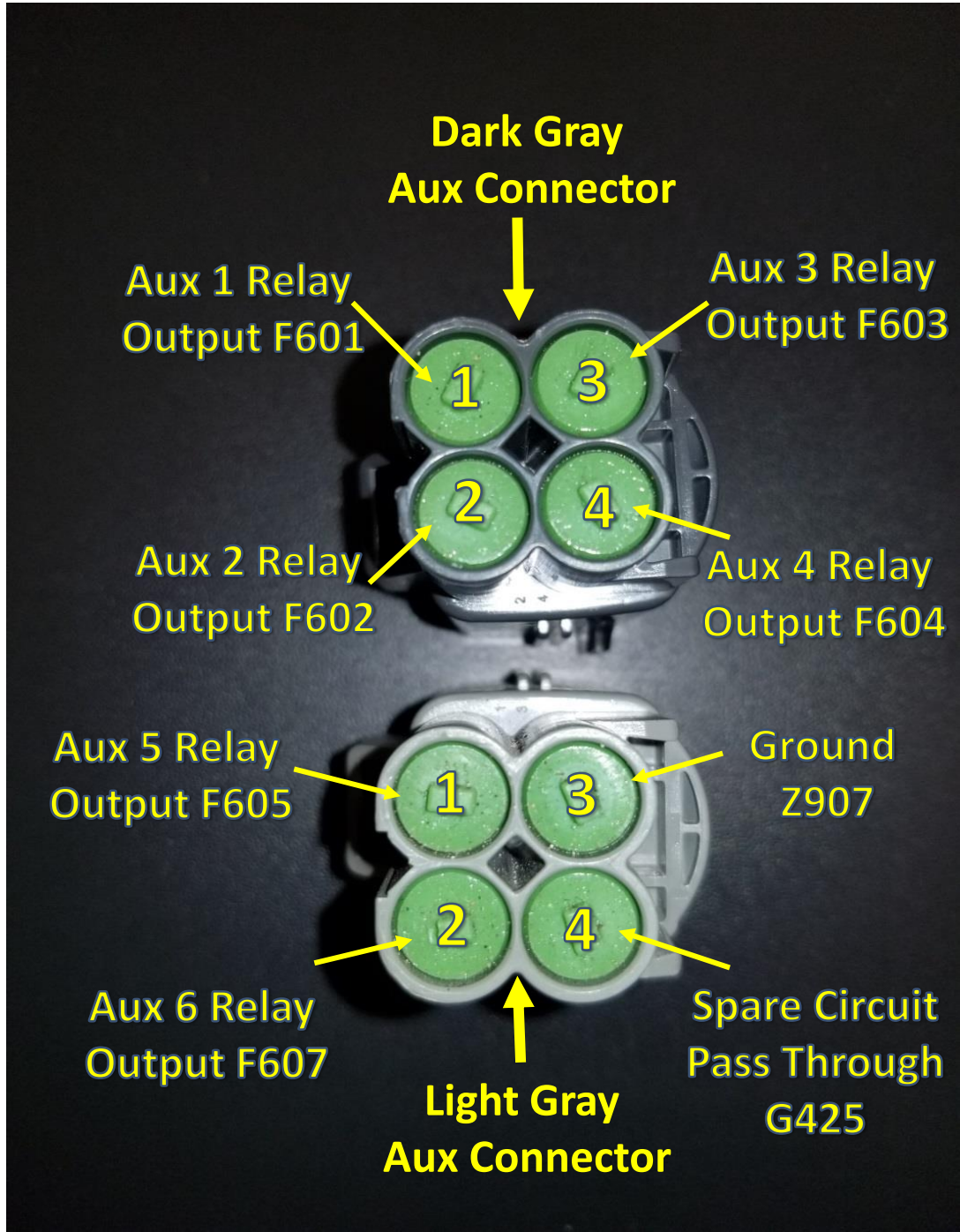
***The fuse amperage ratings shown in the Upfitter Schematics are for the fuses/circuits as installed in the Aux PDC for the vehicle as sold and will change as fuses are reconfigured.**

MAX ALLOWABLE CONTINUOUS CURRENT PER FUSE RATING	
FUSE RATING	MAXIMUM ALLOWABLE CONTINUOUS CURRENT (AMPERES)
20A	14A
25A	17.5A
40A	28A

Auxiliary PDC & Connector Locations



**Auxiliary & PTO Switch
Circuit Locations**



Auxiliary Switches Programming Flow Chart

