The auxiliary switch function logic (BATTERY or IGNITION FED, MOMENTARY or LATCHING, LAST STATE) is programmed using the EVIC display in the instrument cluster.

Notes –
- Max Combined Fuse "rating" allowed in box is 190A. Fuses can be relocated in box as necessary.
- Max allowable combined total continuous amperage draw is 133A.
- Max 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.

*Amperages shown in schematics are for fuses/circuits as installed for the vehicle as sold and will change as fuses are reconfigured.
2016 UPFITTER SCHEMATIC

2500/3500
PICKUP
RAM Truck Upfitter Schematic

Note – Aux PDC (auxiliary Power Distribution Center-relay/fuse box) Underhood

Note – 2 Upfitter Connectors (Light and Dark Gray)

Note – Port Upfitters Connectors, Under Dash Board near park brake bracket / Steering Column

Note – Vehicle Wiring, Blunt Cut (with Heat Shrink) Rear of Frame

Note – Blunt Cut (with Heat Shrink) wires underneath the PDC

Note – VSIM Module located interior of vehicle under dash

Note – Blunt Cut (with Heat Shrink) Stop Lamp Signal – CHMSL Feed

The auxiliary switch function logic (BATTERY or IGNITION FED, MOMENTARY or LATCHING, LAST STATE) is programmed using the EVIC display in the instrument cluster.

Notes –
Max Combined Fuse "rating" allowed in box is 190A. Fuses can be relocated in box as necessary.
Max allowable combined total continuous amperage draw is 133A.
Max 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.

*Amperages shown in schematics are for fuses/circuits as installed for the vehicle as sold and will change as fuses are reconfigured.

MAX ALLOWABLE CONTINUOUS AMPERAGE

<table>
<thead>
<tr>
<th>FUSE RATING</th>
<th>MAX ALLOWABLE CONTINUOUS AMPERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>20A</td>
<td>14A</td>
</tr>
<tr>
<td>25A</td>
<td>17.5A</td>
</tr>
<tr>
<td>40A</td>
<td>28A</td>
</tr>
</tbody>
</table>

Date : 07-JUL-2015
The maximum allowable continuous amperage for these Trailer Tow circuits will be found under "ELECTRICAL/WIRING INFORMATION", "ELECTRICAL POWER USAGE", "AMPERAGE CAPACITY PER CIRCUIT".

These two circuits become active when the 6 cavity Light Gray connector (Jumper port Upfitter 2) included in the upfitter kit is installed onto the Light Gray connector at location 'D' in the vehicle diagram.

The maximum allowable continuous amperage for these Snow Plow and T120 circuits will be found under "ELECTRICAL/WIRING INFORMATION", "ELECTRICAL POWER USAGE", "AMPERAGE CAPACITY PER CIRCUIT".

Blunt Cut wires located at the Right (Passenger side) Rear of Frame

Blunt Cut wires located at the Left (Driver Side) Rear of Frame

Blunt Cut wires located at the Dash near Park Brake Bracket/Streering Column.
The maximum allowable continuous amperage for these Snow Plow and T120 circuits will be found under "ELECTRICAL/WIRING INFORMATION", "ELECTRICAL POWER USAGE", "AMPERAGE CAPACITY PER CIRCUIT".

These two circuits become active when the 6 cavity Light Gray connector (Jumper port Upfitter 2) included in the upfitter kit is installed onto the Light Gray connector at location 'D' in the vehicle diagram.

* The maximum allowable continuous amperage for these Snow Plow and T120 circuits will be found under "ELECTRICAL/WIRING INFORMATION", "ELECTRICAL POWER USAGE", "AMPERAGE CAPACITY PER CIRCUIT".

** A500-12T RD/WT (Battery feed)
** F606-12T PK/OR (Ignition Run feed)

Date: 07-JUL-2015
**2016 UPFITTER SCHEMATIC**

**Blunt Cut Wires**

**2500/3500 PICKUP Box-on**

**W/Auxiliary Switches (Sales Code LHL)**

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**VEHICLE WIRING**

- **L177-18T WT/BR** (PARK LAMP RELAY - LSD)
- **L312-18T BK/VT** (SNOW PLOW LIGHTING ENABLE - B+)
- **L313-18T BK/LG** (LOW BEAM RELAY - LSD)
- **L314-18T BK/BN** (DO NOT USE)
- **L315-18T BK/LB** (HIGH BEAM RELAY - LSD)
- **L316-18T BK/OR** (DO NOT USE)
- **L317-18T WT/VT** (TURN SIGNAL RELAY, LEFT - HSD)
- **L318-18T VT/BR** (TURN SIGNAL RELAY, RIGHT - HSD)
- **T754-22T DG/GY** (DO NOT USE)
- **T120-20T DG/OR** (TRANS PARK POSITION DETECTION)
- **L500-20T LG/WT** (REAR BULB OUTAGE DETECTION DISABLE)

**Blunt Cut wires located underneath PDC:**

```
H
```

**Blunt Cut wire located at Right (Passenger Side), in the second crossmember from rear to front:**

```
M
```

**These two circuits become active when the 6 cavity Light Gray connector (Jumper port Upfitter 2) included in the upfitter kit is installed onto the Light Gray connector at location 'D' in the vehicle diagram:**

```
F
```

**Blunt Cut wires located at Left (Drivers Side) Rear of Frame:**

```
D
```

**The maximum allowable continuous amperage for these Snow Plow and T120 circuits will be found under "ELECTRICAL/WIRING INFORMATION", "ELECTRICAL POWER USAGE", "AMPERAGE CAPACITY PER CIRCUIT".**

**A500-12T RD/WT** (Battery feed)

**F606-12T PK/OR** (Ignition Run feed)

**These two circuits become active when the 6 cavity Light Gray connector (Jumper port Upfitter 2) included in the upfitter kit is installed onto the Light Gray connector at location 'D' in the vehicle diagram:**

**Date: 07-JUL-2015**
2016 UPFITTER SCHEMATIC

Blunt Cut Wires
2500/3500 PICKUP Box-on
W/O Auxilary Switches

**THESE SNOW PLOW CIRCUITS ARE NOT AVAILABLE ON POWER WAGON WITH "TRU-LOK" AXLES**

The maximum allowable continuous amperage for these Snow Plow circuits will be found under "ELECTRICAL/WIRING INFORMATION", "ELECTRICAL POWER USAGE", "AMPERAGE CAPACITY PER CIRCUIT".

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Uphitter Jumper Harness Only
68049501AB

Note - Each Circuit can handle maximum continuous current of 28A. Maximum combined load for AUX Switches is 133A.
"The upfitter/customer is responsible for placing the correct fuse in the correct location depending on the actual load.

THESE ARE NORMALLY NOT CUSTOMER REPLACED
2016 UPFITTER SCHEMATIC

PTO CONNECTOR Underneath Vehicle at Transmission
Circuit Function and Pin - Out

3500/4500/5500 CHASSIS CAB ONLY

Date: 07-JUL-2015
2016 UPFITTER SCHEMATIC

Bagged Upfitter Kit Detail
68209998AB/68209998AC

*Upfitter Connection Jumper
*8 – 12 GA Circuits for Upfitter Aux Connectors 1 & 2
*8 – 20 GA Circuits for the Transmission PTO Connector
*2 – PTO/Non-PTO Jumper Connectors
(1) Port Upfitter Gray Connector w/5 wires
(1) Port Upfitter Black Connector w/5 wires

The Vehicle has been equipped to ease the installation of a PTO by allowing convenient access to circuits needed without having to splice into the main harness.

Located left of Main PDC Box and along the left (Drivers Side) fender inner (location K) is a dark gray jumper connector that allows the vehicle function to switch between PTO and non-PTO operation, although this normally need not be accessed by the customer. If required, the jumpers are located in this upfitter kit. If necessary, verify proper jumper usage by reviewing jumper design on previous pages.

In the rear of the vehicle, you can find all required T-TOW circuits, two (2) additional power circuits (1 Battery and 1 Ignition) and a Stop Lamp / CHMSL Feed Circuit.

In the Engine compartment you will find two (2) (A Light Gray and a Dark Gray) Upfitter AUX connectors (location B) which allow easy access to the switch bank and fuse box outputs, mating terminated circuits are included in this kit as needed.

Connectors (Black & Gray) for these circuits are part of the Upfitter jumper kit.

The Battery line to the AUX PDC is protected by a wire fuse link.

Warning about adding auxiliary batteries:
An auxiliary battery may be used, however a battery isolation unit is not supplied and the auxiliary battery may discharge the truck battery when the engine is not running.

Ground Studs on the chassis/frame may be utilized as a grounding point with a 50A Maximum total load, see “Vehicle Ground Locations” section in the RAM Body Builder Guide, Electrical/Wiring Information.

Date: 07-JUL-2015