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.

Notes –
Aux PDC Underhood
2 Upfitter Connectors (Light and Dark Gray)
Port Upfitters Connectors, Under Dash Board near park brake bracket / Steering Column
PTO Connector Wires located underneath vehicle at Transmission Bell Housing, Left (Driver) Side

Vehicle Wiring, Blunt Cut (with Heat Shrink) Rear of Frame
Note - Aux 5/PTO jumper connector, alongside left (Drivers Side) fender inner.
VSIM Module located interior of vehicle under dash

Ground Point (50A Total Max Load)

5A Mini Fuse can be swapped between Battery and Ignition. This changes the function of AUX SW1 and AUX SW2 from Battery operated to Ignition/Run operated.

MAX ALLOWABLE CONTINUOUS AMPERAGE DRAW PER FUSE RATING

<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>
**2014 UPFITTER SCHEMATIC**

**2500/3500 PICKUP RAM Truck Ufitter Schematic**

**Notes** –
- Aux PDC Underhood
- 2 Ufitter Connectors (Light and Dark Gray)
- Port Ufitters Connectors, Under Dash Board near park brake bracket / Steering Column
- Vehicle Wiring, Blunt Cut (with Heat Shrink) Rear of Frame
- Blunt Cut (with Heat Shrink) wires, along side Left (Drivers side) fender inner.
- VSIM Module located interior of vehicle under dash
- Blunt Cut (with Heat Shrink) Stop Lamp Signal – CHMSL Feed

**Ground Point (50A Total Max Load)**

**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.
- Fuse "rating" in any one location is 40A.
- 5A Mini Fuse can be swapped between Battery and Ignition. This changes the function of AUX SW1 and AUX SW2 from Battery operated to Ignition/Run operated.

**FUSE RATING**

<table>
<thead>
<tr>
<th>FUSE RATING</th>
<th>MAX ALLOWABLE CONTINUOUS AMPERAGE</th>
<th>DRAW PER FUSE RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20A</td>
<td>14A</td>
<td></td>
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<td>28A</td>
<td></td>
</tr>
</tbody>
</table>

Date: 06/04/2014
2014 UPFITTER SCHEMATIC

3500/4500/5500 CHASSIS CAB
6.7 Diesel Auto Trans w/PTO
(Sales Codes LBN/LBV)

Date: 06/04/2014
2014 UPFITTER SCHEMATIC

3500/4500/5500 CHASSIS CAB
6.7 Diesel Manual Trans non-PTO

Date: 06/04/2014
2014 UPFITTER SCHEMATIC

Blunt Cut Wires
3500/4500/5500 CHASSIS CAB

** A500-14T RD/VT (Trailer Tow Battery feed) **

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

** L56-18T WT/VT (Stop Lamp signal / CHMSL feed) **

** L614-18T LG (Trailer Tow Stop/Turn Right) **

** L615-18T YL (Trailer Tow Stop/Turn Left) **

** Z914-12T BK/GY (Ground) **

** A100-14T RD/VT (Trailer Tow Battery feed) **

** B40-14T GY (Electric Brake feed) **

** L76-16T WT/BR (Trailer Tow Running/Park Lamps feed) **

** L111-16T WT/OR (Trailer Tow Back-up Lamps feed) **

** L614-18T LG (Trailer Tow Stop/Turn Right) **

** L615-18T YL (Trailer Tow Stop/Turn Left) **

** 294-12T BK/GY (Ground) **

Maximun Ampereage allowed for these trailer tow circuits are available in the "Electrical Power Usage" chapter of the "Electrical / Wiring Information" of the Body Builder Guide.

G Blunt Cut Wires located at Right (Passenger side) Rear of Frame

H Blunt Cut wires located along side left (Drivers Side) fender liner

H Blunt Cut Wires located at Right (Passenger side) Rear of Frame

3754-2ST DG/GY (Hard-Wired Remote Start/Stop)

320-20T DG/OR * (Trans Park Position Detection)

L750-20T LG/VT (Rear Bulb Outage Detection Disable)

L79-18T WT/BR (Separate Rear Stop / Turn Lamps)

* Provides a "Ground" when the Auto Transmission is in the "Park" position and the Key is in the "Run" position, maximum continuous amperage draw is 0.200A

** 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

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

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

** L614-18T LG (Trailer Tow Stop/Turn Right) **

** L615-18T YL (Trailer Tow Stop/Turn Left) **

** 294-12T BK/GY (Ground) **

"F" Blunt Cut Wires located at Left (Drivers Side) Rear of Frame

VEHICLE WIRING

V517-20T VT/BR (Speed Control Switch return)

F405-20T PK (PTO switch)

Z905-20T LG/YL (SEPARATE REAR STOP / TURN LAMPS)

G405-12T VT/YL (Square Circuit - Pass Thru)

Date: 06/04/2014
### 2014 UPFITTER SCHEMATIC

**Blunt Cut Wires**

**2500/3500 Pickup Box-off (Sales Code XBC)**

<table>
<thead>
<tr>
<th>Blunt Cut Wires</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L614-18T LG</td>
<td>Trailer Tow Stop/Turn Right</td>
</tr>
<tr>
<td>L615-18T YL</td>
<td>Trailer Tow Stop/Turn Left</td>
</tr>
<tr>
<td>Z914-12T BK/GY</td>
<td>Ground</td>
</tr>
<tr>
<td>A100-14T RD/VT</td>
<td>Trailer Tow Battery feed</td>
</tr>
<tr>
<td>B40-14T GY</td>
<td>Electric Brake feed</td>
</tr>
<tr>
<td>L76-16T WT/BR</td>
<td>(Trailer Tow Running/Park Lamps feed)</td>
</tr>
<tr>
<td>L111-16T WT/OR</td>
<td>(Trailer Tow Back-up Lamps feed)</td>
</tr>
<tr>
<td>L614-18T LG</td>
<td>(Trailer Tow Stop/Turn Right)</td>
</tr>
<tr>
<td>L615-18T YL</td>
<td>(Trailer Tow Stop/Turn Left)</td>
</tr>
<tr>
<td>Z914-12T BK/GY</td>
<td>Ground</td>
</tr>
</tbody>
</table>

- **"H" Blunt Cut wires located at left front of vehicle along side of inner fender.**
- **"G" Blunt Cut wires located at Right (Passenger Side) Rear of Frame.**
- **"M" Blunt Cut wire located at Left (Drivers Side) Rear of Frame.**

**Vehicle Wiring**

- **L56-16T WT/VT** (Stop Lamp signal / CHMSL feed)***

**Maximum Ampereage Allowed for These Trailer Tow Circuits**

- Provided in the **"Electrical Power Usage"** chapter of the **Electrical/Wiring Information** of the **Body Builder Guide**.

- Provides a "Ground" when the Auto Transmission is in the "Park" position and the Key is in the "Run" position, maximum continuous amperage draw is 0.200A.

- "D" Blunt Cut wires are part of the Upfitter Ports 1 & 2 Jumpers located under Dash near Park Brake Bracket/Steering Column. The Connector (Gray) for this circuit is part of the Upfitter Jumper kit.

Date: 06/04/2014
**2014 UPFITTER SCHEMATIC**

**Blunt Cut Wires**

**2500/3500 PICKUP Box-on**

**W/Snowplow Prep Option (Sales Code AHD)**

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

---

**“H” Blunt Cut wires located along side left (Drivers Side) fender inner**

- L177-18T WT/BR (DO NOT USE)
- L312-18T BK/VT (DO NOT USE)
- L313-18T BK/LG (DO NOT USE)
- L314-18T BK/YN (DO NOT USE)
- L315-18T BK/LB (DO NOT USE)
- L316-18T BK/OR (DO NOT USE)
- L317-18T WT/VT (DO NOT USE)
- L318-18T WT/DB (DO NOT USE)
- L56-18T WT/VT (Stop Lamp signal/ CHMSL feed)

**“M” Blunt Cut wire located at Left (Drivers Side) Rear of Frame**

- L56-18T WT/VT (Stop Lamp signal/ CHMSL feed)

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**VEHICLE WIRING**

**“D” Blunt Cut wires are part of the Upfitter Ports 1 & 2 Jumps located under Dash near Park Brake Bracket/Steering Column. The Connector (Gray) for this circuit is part of the Upfitter Jumper Kit.**

* Provides a "Ground" when the Auto Transmission is in the "Park" position and the Key is in the "Run" position, maximum continuous amperage draw is 0.200A

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**Date: 06/04/2014**
2014 UPFITTER SCHEMATIC
Blunt Cut Wires
2500/3500 PICKUP Box-on
With or Without Snowplow Prep Option (Sales Code AHD)
W/O Auxiliary Switches
2014 UPFITTER SCHEMATIC
Upfitter 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.
<table>
<thead>
<tr>
<th>Connector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>K320-20T</td>
<td>DB/GRK Power Takeoff Switch</td>
</tr>
<tr>
<td>K330-20T</td>
<td>BR/VT Maximum Operating Speed Switch (Diesel Only)</td>
</tr>
<tr>
<td>K340-20T</td>
<td>VT/DBA Acceleration Interlock Switch</td>
</tr>
<tr>
<td>K350-20T</td>
<td>PK Accelerator Pedal Position Switch 1</td>
</tr>
<tr>
<td>K360-20T</td>
<td>YL/PK Accelerator Pedal Position Switch 2</td>
</tr>
<tr>
<td>K370-20T</td>
<td>BR/VT Engine Remote Throttle Switch Signal</td>
</tr>
<tr>
<td>K380-20T</td>
<td>VT/BR Engine Remote Throttle Switch</td>
</tr>
<tr>
<td>K390-20T</td>
<td>DB/LG Engine Remote Throttle Switch 1</td>
</tr>
<tr>
<td>F856-20T</td>
<td>YL/PK Engine Remote Throttle Switch 2</td>
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<tr>
<td>K128-20T</td>
<td>DB/LG Engine Remote Throttle Switch</td>
</tr>
<tr>
<td>K129-20T</td>
<td>DB/LG Remote Throttle Switch 1</td>
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<tr>
<td>K119-20T</td>
<td>LB/BK Engine Remote Throttle Switch 2</td>
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<tr>
<td>K810-20T</td>
<td>VT/DG Engine Remote Throttle Switch 3</td>
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<tr>
<td>F425-20T</td>
<td>PK Engine Remote Throttle Switch 4</td>
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<tr>
<td>V937-20T</td>
<td>VT/BR Engine Remote Throttle Switch 5</td>
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<tr>
<td>E</td>
<td>EK400-20T BR/VT Engine Remote Throttle Switch 6</td>
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<tr>
<td>E</td>
<td>EK400-20T BR/VT Engine Remote Throttle Switch 7</td>
</tr>
<tr>
<td>E</td>
<td>EK400-20T BR/VT Engine Remote Throttle Switch 8</td>
</tr>
</tbody>
</table>

**Circuit Function and Pin-Out**

Date: 06/04/2014
Bagged Upfitter Kit Detail
68209998AB

*Upfitter Connection Jumper
*8 – 12 GA Circuits for AUX Connectors 1 & 2
*8 – 20 GA Circuits for the Transmission PTO Connector
*2 – PTO/Non-PTO Jumper Connectors

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. The required jumpers are located in the Upfitter Kit. 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) (Light Grey and Dark Grey) Upfitter connectors (location B) which allow easy access to the switch bank and fuse box outputs, mating terminated circuits are included in the kit as needed.

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.