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.

FUSE RATING | MAX ALLOWABLE CONTINUOUS AMPERAGE
---|---
20A | 14A
25A | 17.5A
40A | 28A

Date: 22-APR-2015
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.
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*Amperages shown in schematics are for fuses/circuits as installed for the vehicle as sold and will change as fuses are reconfigured.

2015 UPFITTER SCHEMATIC

2500/3500
PICKUP
RAM Truck Upfitter Schematic

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.

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

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

Ground Point (50A Total Max Load)

FUSE RATING

<table>
<thead>
<tr>
<th>FUSE RATING</th>
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<tbody>
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Date : 22-APR-2015
2015 UPFITTER SCHEMATIC

3500/4500/5500 CHASSIS CAB 6.7
Diesel Auto Trans Non - PTO

PTO Jumper (Supplied in Uplifter Kit to be installed by customer if necessary)

Blunt-Cut Circuits

IF A "BATTERY FEED B+" IS NEEDED, CUT WIRE HERE

IF AN "IGNITION FEED B+" IS NEEDED, CUT WIRE HERE
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.

** A500-12T RD/WT (Battery feed)
** F606-12T PK/OR (Ignition Run feed)
** L60-18T WT/VT (Stop Lamp signal / CHMSL feed)
** Z914-12T BK/GY (Ground)

** A100-14T RD/VT (Trailer Tow Battery feed)
** B40-14T DG (Electric Brake feed)
** L756-18T WT/BR (Trailer Tow Running/Truck Lamps feed)
** L111-18T WT/OR (Trailer Tow Back-up Lamps feed)
** L614-18T LG (Trailer Tow Stop/Turn Right)
** L615-18T YL (Trailer Tow Stop/Turn Left)
** Z914-12T BK/GY (Ground)

** 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)
** L60-18T WT/VT (Stop Lamp signal / CHMSL feed)
** Z914-12T BK/GY (Ground)

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)
** L60-18T WT/VT (Stop Lamp signal / CHMSL feed)
** Z914-12T BK/GY (Ground)

** A500-12T RD/WT (Battery feed)
** F606-12T PK/OR (Ignition Run feed)
** L60-18T WT/VT (Stop Lamp signal / CHMSL feed)
** Z914-12T BK/GY (Ground)

** A500-12T RD/WT (Battery feed)
** F606-12T PK/OR (Ignition Run feed)
** L60-18T WT/VT (Stop Lamp signal / CHMSL feed)
** Z914-12T BK/GY (Ground)
The maximum allowable continuous amperage for these trailer Tow circuits will be found under "ELECTRICAL/WIRING INFORMATION", "ELECTRICAL POWER USAGE", "AMPERAGE CAPACITY PER CIRCUIT".

G Blunt Cut wires located at Right (Passenger Side) Rear of Frame

"M" Blunt Cut wires located at Right (Passenger Side), in the second crossmember from rear to front.

"H" Blunt Cut wires located underneath PDC

"C" Blunt Cut wires located at Left (Drivers Side) Rear of Frame

"F" Blunt Cut wires located at Right (Passenger Side) Rear of Frame

** 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

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

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Blunt Cut Wires
2500/3500 PICKUP Box-on
W/Auxiliary Switches (Sales Code LHL)

"H" Blunt Cut wires located underneath PDC

"M" Blunt Cut wire located at Right (Passenger Side), in the second crossmember from rear to front.

** Those 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/WT (Battery feed)

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

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

Date: 22-APR-2015
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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2015 UPFITTER SCHEMATIC
Uffitter Jumper Harness Only
68049501AB

PTO Connector

Dash – Dark Gray
Connector_Uffitter_Aux_1

E

- G425-20T PK (PWR – POWER TAKEOFF SWITCH)
- F425-20T PK (PWR – POWER TAKEOFF SWITCH)
- K427-20T OR/LG (PWR – PTO SWITCH)
- F425-18T OR/LG (PWR – PTO SWITCH)
- F604-12T PK/LB (RELAY 4 OUTPUT)
- F603-12T PK/DG (RELAY 3 OUTPUT)
- F602-12T PK/RD (RELAY 2 OUTPUT)
- F601-12T PK/WT (RELAY 1 OUTPUT)
- F605-12T PK/YL (OR) PK/OR (PWR - ATM UPFITTER IGN RUN FEED)
- F606-12T AWG PK/YL (OR) PK/OR (PWR - ATM UPFITTER IGN RUN FEED)
- Z917-18T BK/DG (GROUND)
- G425-18T VT/BL (Spare Circuit - Pass Thru)
- V937-20T VT/BR (SCS – SPEED CTRL SW RTN)
- K128-20T DB/LG (ENG – REMOTE THROTTLE SWITCH SIGNAL)
- K119-20T LG/BK (ENG – MAXIMUM OPERATING SPEED SWITCH)
- F856-20T YL/PK (ENG – 5V ENGINE SNSR FEED SEC)
- K810-20T VT/DG (ENG – ACCELERATOR INTERLOCK SWITCH)
- K129-20T LG/BK (ENG – MAXIMUM OPERATING SPEED SWITCH)
- F425-12T PK (PWR – POWER TAKEOFF SWITCH)
- K810-20T VT/DG (ENG – ACCELERATOR INTERLOCK SWITCH)
- K400-20T BR/VT (ENG – ACCEL PEDAL POS SNSR RTN 2)

Dash – Light Gray
Connector_Upfitter_2 Aux_2

B

- K129-20T DB/DG (ENG – REMOTE THROTTLE SWITCH)
- F425-18T OR/LG (PWR – PTO SWITCH)
- K810-20T VT/DG (ENG – ACCELERATOR INTERLOCK SWITCH)
- F856-20T YL/PK (ENG – 5V ENGINE SNSR FEED SEC)
- K128-20T DB/LG (ENG – REMOTE THROTTLE SWITCH SIGNAL)
- K119-20T LG/BK (ENG – MAXIMUM OPERATING SPEED SWITCH)
- F425-20T PK (PWR – POWER TAKEOFF SWITCH)

THESE ARE NORMALLY NOT CUSTOMER REPLACED

Jumper Port_Uffitters_1

D

- OR/GY (DO NOT USE)
- OR/LG (DO NOT USE)

Jumper Port_Uffitters_2

- OR/GY (DO NOT USE)
- OR/LG (DO NOT USE)

*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.

DATE: 22-APR-2015
2015 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: 22-APR-2015