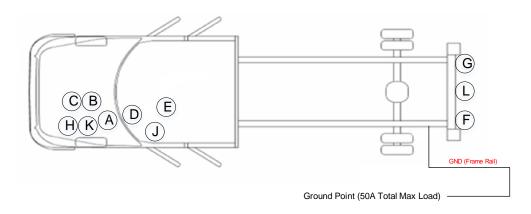
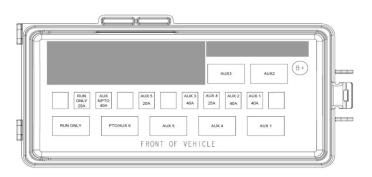
3500/4500/5500 CHASSIS CABS



- Aux PDC (auxiliary Power Distribution Center-relay/fuse box)
 Underhood
- B 2 Upfitter Connectors (Light and Dark Gray)
- PDC (main Power Distribution Center-relay/fuse box) underhood
- Dash Board near park brake bracket / Steering Column
- PTO Connector Wires located underneath vehicle at Transmission Bell Housing, Left (Driver) Side
- F Park sense connector
- F) G Vehicle Wiring, Blunt Cut (with Heat Shrink) Rear of Frame
 - H Blunt Cut (with Heat Shrink) wires underneath the PDC
 - J VSIM Module located interior of vehicle under dash
 - (K) Aux 6/PTO jumper connector, alongside left (Drivers Side) fender inner
 - Rear Camera Connector



(A)

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

Max Combined Fuse "rating" allowed for Aux SW 1, 2, 3, 4, 5, 6/PTO, Run Only & Battery is 225A. Fuses can be relocated in box as necessary.

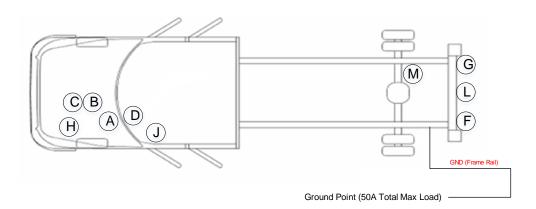
Max allowable combined total continuous amperage draw is 135A. Max fuse "rating" in any one location is 40A.

*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 DRAW PER FUSE RATING

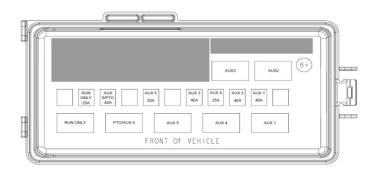
FUSE RATING	MAX ALLOWABLE CONTINUOUS AMPERAGE
20A	14A
25A	17.5A
40A	28A



2500/3500 PICKUP BOX DELETE (XBC) With AUX switches (LHL)

- Aux PDC (auxiliary Power Distribution Center-relay/fuse box)
 Underhood
- (B) 2 Upfitter Connectors (Light and Dark Gray)
- PDC (main Power Distribution Center-relay/fuse box) underhood
- Port Upfitters Connectors, Under

 Dash Board near park brake bracket / Steering Column
- (F) G Vehicle Wiring, Blunt Cut (with Heat Shrink) Rear of Frame
 - (H) Blunt Cut (with Heat Shrink) wires underneath the PDC
 - (J) VSIM Module located interior of vehicle under dash if equipped (sales code XXS)
 - M Blunt Cut (with Heat Shrink) Stop Lamp Signal CHMSL Feed
 - Rear Camera Connector



(A)

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

Max Combined Fuse "rating" allowed for Aux SW 1, 2, 3, 4, 5, 6, Run Only & Battery is 225A. Fuses can be relocated in box as necessary.

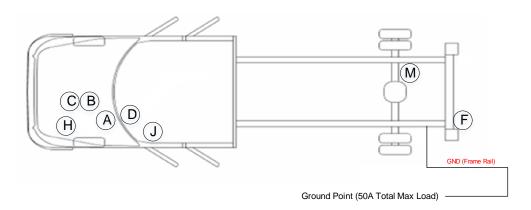
Max allowable combined total continuous amperage draw is 135A. Max fuse "rating" in any one location is 40A.

*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 DRAW PER FUSE RATING

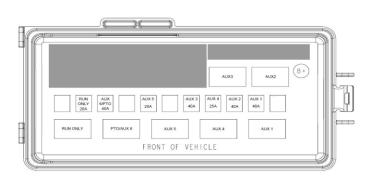
FUSE RATING	MAX ALLOWABLE CONTINUOUS AMPERAGE
20A	14A
25A	17.5A
40A	28A



2500/3500 PICKUP BOX ON With AUX switches (LHL)

- Aux PDC (auxiliary Power Distribution Center-relay/fuse box)
 Underhood
- (B) 2 Upfitter Connectors (Light and Dark Gray)
- PDC (main Power Distribution Center-relay/fuse box) underhood
- Port Upfitters Connectors, Under

 Dash Board near park brake bracket / Steering Column
- F) Vehicle Wiring, Blunt Cut (with Heat Shrink) Rear of Frame
- H) Blunt Cut (with Heat Shrink) wires underneath the PDC
- J VSIM Module located interior of vehicle under dash if equipped (sales code XXS)
- Blunt Cut (with Heat Shrink) Stop Lamp Signal CHMSL Feed



(A)

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

Max Combined Fuse "rating" allowed for Aux SW 1, 2, 3, 4, 5, 6, Run Only & Battery is 225A. Fuses can be relocated in box as necessary.

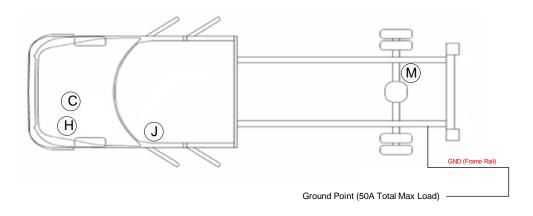
Max allowable combined total continuous amperage draw is 135A. Max fuse "rating" in any one location is 40A.

*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 DRAW PER FUSE RATING

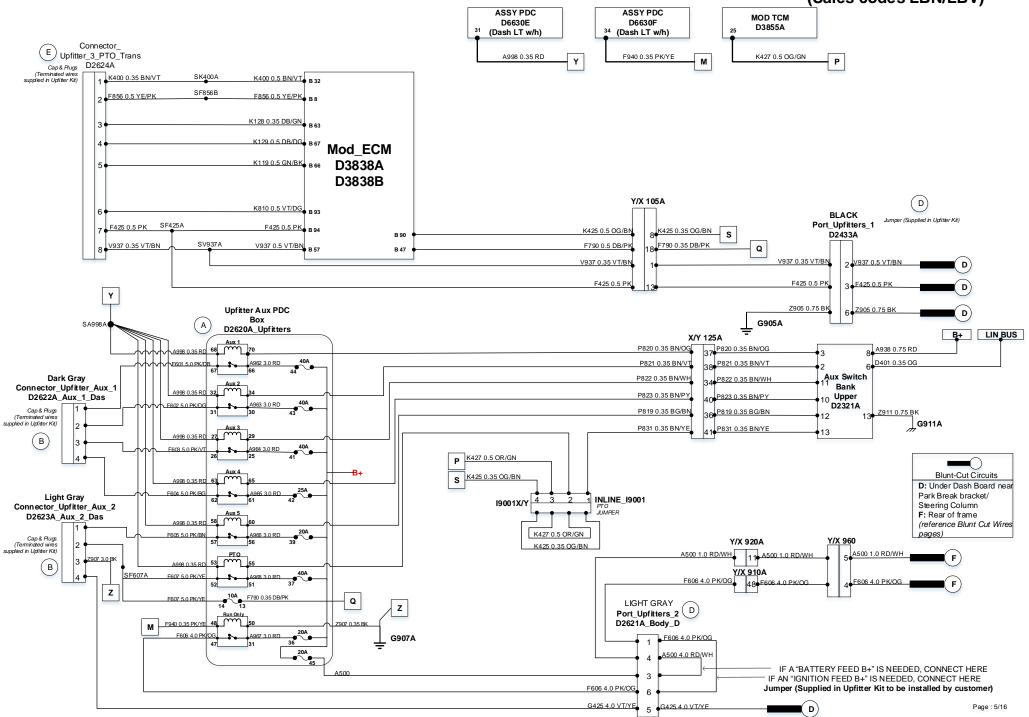
FUSE RATING	MAX ALLOWABLE CONTINUOUS AMPERAGE
20A	14A
25A	17.5A
40A	28A



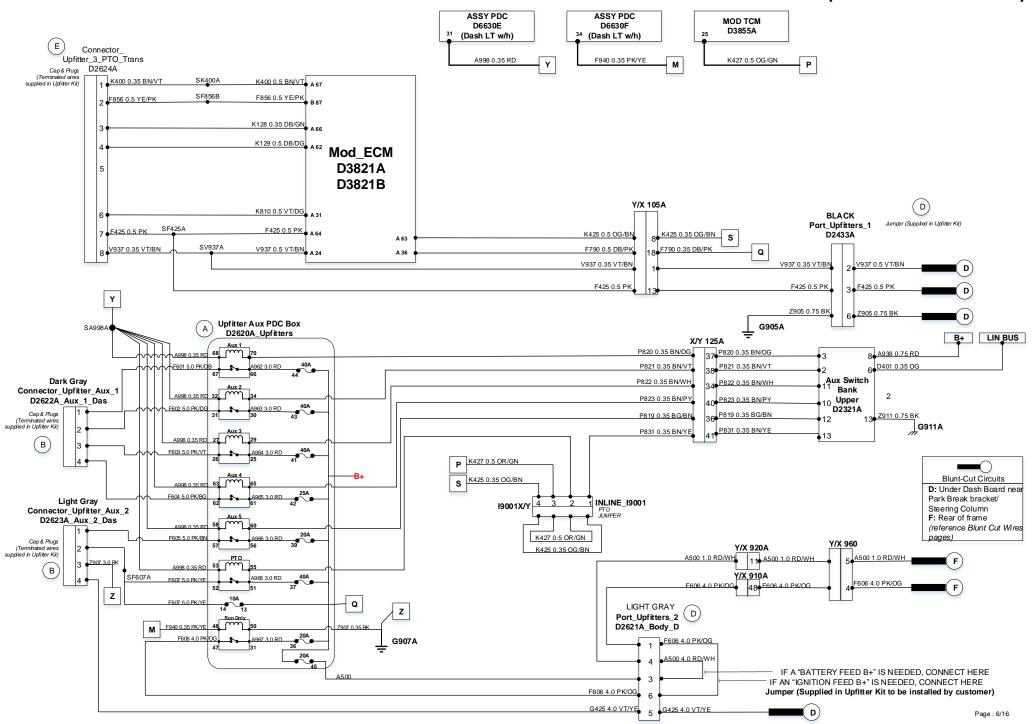
2500/3500 PICKUP Without AUX switches (LHL)

- C PDC (main Power Distribution Center-relay/fuse box) underhood
- (H) Blunt Cut (with Heat Shrink) wires underneath the PDC
- $\begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} VSIM Module located interior of vehicle under dash if equipped (sales code XXS) \\ \hline \end{tabular}$
- M Blunt Cut (with Heat Shrink) Stop Lamp Signal CHMSL Feed

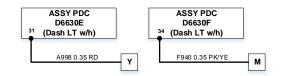
3500/4500/5500 CHASIS CAB 6.7 Diesel Auto Trans w/PTO (Sales codes LBN/LBV)

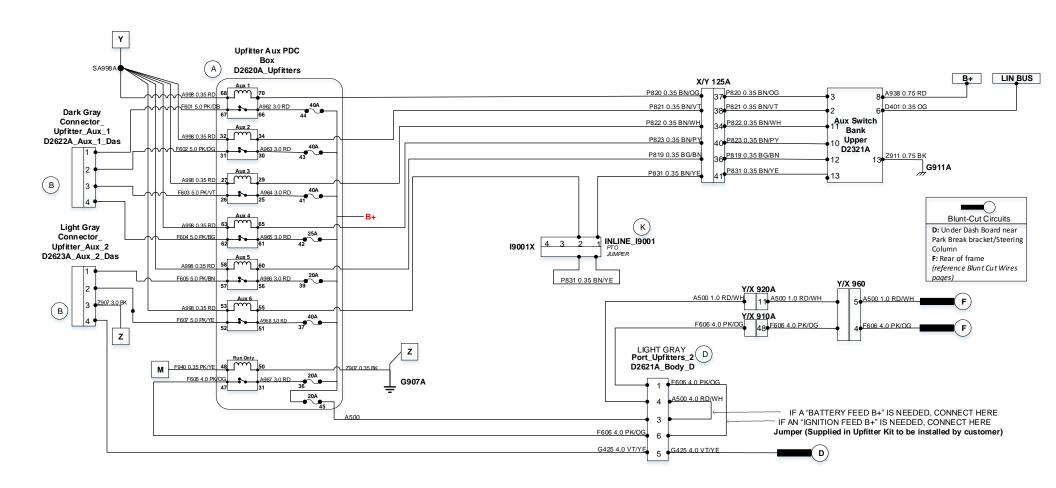


3500/4500/5500 CHASSIS CAB 6.4 Gas Asin Trans (Only) w/PTO (Sales codes LBN/LBV)



3500/4500/5500 CHASSIS CAB NON-PTO





Blunt Cut Wires 3500/4500/5500 CHASSIS CAB

"G" Blunt Cut wires located at Rear of Frame

W750 RD (TRAILER TOW BATT FEED) W754 DB (TRAILER TOW ELECTRIC BRAKE FEED) W756 BN (TRAILER TOW PARK LAMPS) W751 BK (TRAILER TOW BACK-UP LAMPS FEED) W752 DG (TRAILER TOW TURN/STOP SIG RT) W753 YE (TRAILER TOW TURN/STOP SIG LT) W755 WH (Ground) (**G**)

The maximum alowable continous amperage for these Trailer Tow circuits will be found under "ELECTRICAL/WIRING INFORMATION", "ELECTRICAL POWER USAGE", "AMPERAGE CAPACITY PER CIRCUIT".

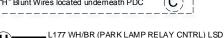
*These two circuits become active when the 6 cavity Light Gray connector (Jumper por Upfitter 2) included in the upfitter kit is installed onto the Light Gray connector at location 'D' in the vehicle diagram

* A500 RD/WH (UPFITTER FUSED B+ FEED)

** F606 PK/OG (UPFITTER IGN RUN FEED) L56 WT/VT (STOP LAMP SIG/CHMSL FEED)

"F" Blunt Cables wires located at Rear of Frame

"H" Blunt Wires located underneath PDC



12 BK/VT (SNOW PLOW FRONT LIGHTNING ENABLE) .313 BK/GN (SNOW PLOW LOW BEAM RELAY CTRL LT) LSD L315 BK/BU (SNOW PLOW HIGH BEAM RELAY CTRL LT) LSD

318 VT/BN (SNOW PLOW TURN RELAY CTRL RT) HSD

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

T754 DG/GY (HARD WIRED REMOTE START SIG)

VEHICLE WIRINNG

V937 VT/BN (SPEED CTRL SW RTN) _F425 PK (PWR - PTO SWITCH) Z905 BK (GND - GENERIC 5) G425 YT/YE (PIQSYSTEM STATUS BULB)

"D" Blunt Cut wires are part of the Upfitter Pots 1 & 2 Jumpers located under Dash near Park Brake Bracket/Steering Column. Connector (Black & Gray) for these circuits are part of the Upfitter Jumper kit.

Blunt Cut Wires 2500/3500 Pickup Box-off (Sales Code XBC)

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

"G" Blunt Cut wires located at Rear of Frame

L56 WH/VT (STOP LAMP SIG/CHMSL FEED)

W750 RD (TRAILER TOW BATT FEED) W754 DB (TRAILER TOW ELECTRIC BRAKE FEED W756 BN (TRAILER TOW PARK LAMPS) W751 BK (TRAILER TOW BACK-UP LAMPS FEED) W752 DG (TRAILER TOW TURN/STOP SIG RT W753 YE (TRAILER TOW TURN/STOP SIG LT W755 WH (Ground) (**G**)

The maximum alowable continous amperage for these Trailer Tow circuits will be found under "ELECTRICAL/WIRING INFORMATION", "ELECTRICAL POWER USAGE", "AMPERAGE CAPACITY PER CIRCUIT".

L177 WH/BR (PARK LAMP RELAY CNTRL) LSD <u>312 BK/VT (SNOW PLOW FRONT LIGHTNING ENABLE)</u> _313 BK/GN (SNOW PLOW LOW BEAM RELAY CTRL LT) LSD L315 BK/BU (SNOW PLOW HIGH BEAM RELAY CTRL LT) LSD 317 WH/VT (SNOW PLOW TURN RELAY CTRL LT) HSD 318 VT/BN (SNOW PLOW TURN RELAY CTRL RT) HSD 754 DG/GY (NOT USED)

"H" Blunt Wires located underneath PDC

*The maximum allowable continuous amperage for these Snow Plow 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 por Upfitter 2) included in the upfitter kit is installed onto the Light Gray connector at location 'D' in the vehicle diagram **VEHICLE WIRINNG

** A500 RD/WH (UPFITTER FUSED B+ FEED)

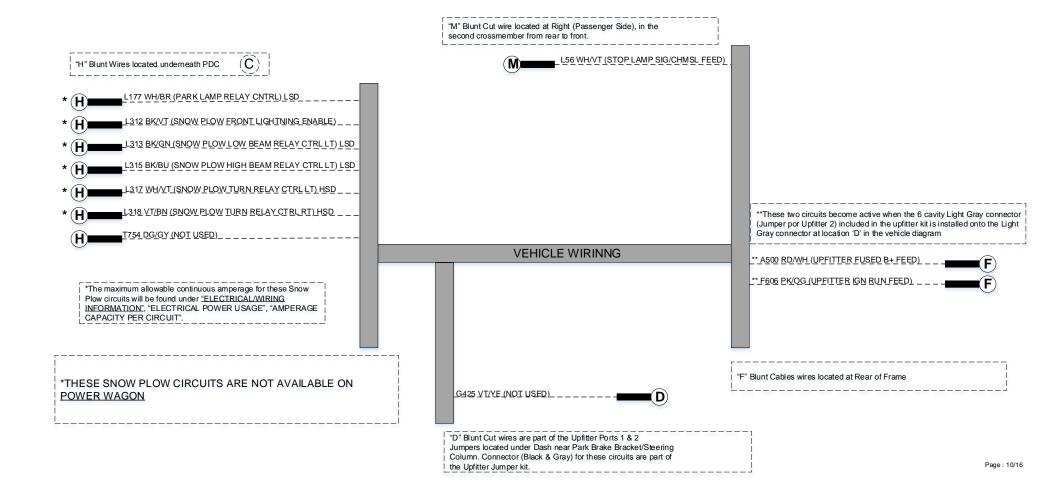
**_F606 PK/QG_(UPFITTER IGN RUN FEED)

"F" Blunt Cables wires located at Rear of Frame

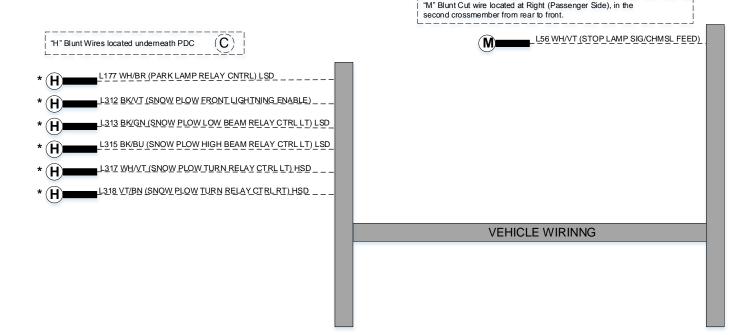
G425 YT/YE (NOT USED)

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

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



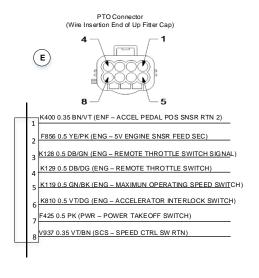
Blunt Cut Wires 2500/3500 Pickup Box-on W/O Auxiliary Swithces

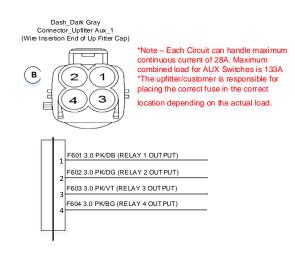


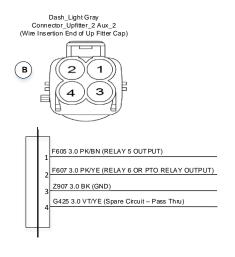
*THESE SNOW PLOW CIRCUITS ARE NOT AVAILABLE ON POWER WAGON

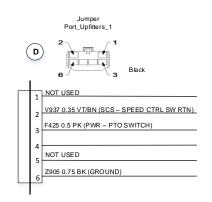
The maximun allowable continuous amperage for these Snow Plow circuits will be found under "ELECTRICAL/WIRING INFORMATION", "ELECTRICAL POWER USAGE", "AMPERAGE CAPACITY PER CIRCUIT".

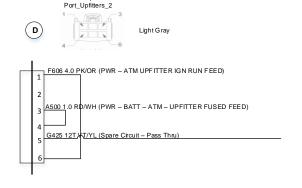
Upfitter Jumper Harness Only

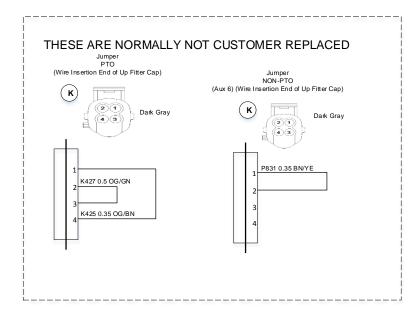




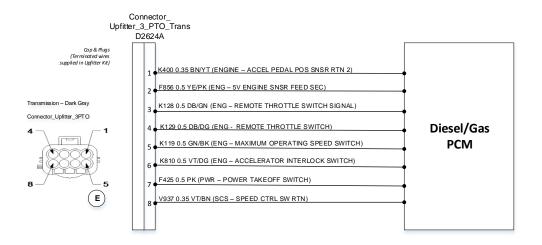








PTO CONNECTOR Underweath Vehicle at Transmission Circuit Function and Pin – Out 3500/4500/5500 CHASSIS CAB ONLY



Bagged Upfitter Kit Detail 68398184

- *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 chassis cabs and Pickups, you can find all required Trailer -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.

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.

WIRE SIZE ABBREVIATION REFERENCE

WIRE GAUGE US (AWG)	WIRE GAUGE METRIC (mm)	WIRE OUTER DIAM (mm)
22	0.35	1.3
20	0.5	1.6
19	0.75	1.9
18	0.8	2
16	1	2.1
15	1.5	2.4
14	2	2.6
13	2.5	3
12	3	3.3
-	4	3.7
10	5	4.2
-	6	4.3
8	8	5.5
-	10	6
6	13	-
-	15	7
-	16	7.9
4	19	-
3	25	9.4
-	30	11
2	32	-
-	35	11.6
1	40	12.4
1/0	50	13.5
2/0	62	-
3/0	70	15.5

Wire Color Abbreviations

Table 1 - Wire Color Abbreviations		
RED	RD	
BLACK	ВК	
BROWN	BN	
ORANGE	OG	
VIOLET	VT	
WHITE	WH	
GRAY	GY	
YELLOW	YE	
DK BLUE	DB	
DK GREEN	DG	
LT GREEN	GN	
LT BLUE	BU	
TAN	BG	
PINK	PK	