



Parts Bulletin # 156

September, 2009

Switches, Illuminated

Vehicles Affected: All 8x8 Avenger/Frontiers from 27886 to 28972

All 6x6 Frontiers from 16354 to 16621

Description:

The 613-121 Illuminated Switch has been discontinued in production and is no longer available as a replacement part. This switch was used for various kits and labeled with a function symbol on an adhesive backed label. If you need to replace this switch, it has been superseded by the following switches:

613-153 (SWITCH, LIGHT)

613-154 (SWITCH, BILGE PUMP)

613-155 (SWITCH, WIPER)

613-156 (SWITCH, FOG LIGHTS)

613-157 (SWITCH, HEATER FAN)

613-158 (SWITCH, ROLL BAR
LIGHT KIT)



NOTE

These new switches will require some modifications to the dash area where the old 613-121 Switch was installed. See below Re & Re instructions.

Parts Required:

(1X) 127-150 PLATE, SWITCH MOUNTING -3 HOLE

(6X) 120-24 Rivets

(1X or more) of the above required switches

Replacing old switch with new style:

1. Remove the old switches. *Photo 1*
2. Locate the 127-150 Switch Plate and place it over the old switch area in order to cover the old switch holes. *Photo 2*

NOTE: Plate location may vary according to Argo model or switch replaced.



Photo 1



Photo 2

- Trace around the perimeter of the switch plate to create an outline of the plate. *Photo 3.*
- Trim out the area leaving enough plastic for securing with the (6) 120-24 Rivets. *Photo 4*



Photo 3



Photo 4

5. Mount and secure the 127-150 Switch Plate securing with the six 120-24 Rivets. *Photo 5*

6. Install the new switch (*Photo 6*) and wire as follows:



Photo 5



Photo 6

Wiring For All New Switches

Please see last page for switch terminal numbering.

613-153 (SWITCH, LIGHT)

- White Wire/Red Stripe from vehicle wire harness (Power), to terminal (#2) of switch
- White Wire from vehicle wire harness (Load), to terminal (#3)
- Black Wire from vehicle wire harness (Ground), to ground terminal of switch.

613-154 (SWITCH, BILGE PUMP)

- Pink Wire from Fuse Block (Power) to terminal (#2) of Switch
- Brown Wire from Pump (Load) to terminal (#3)
- Pigtailed White and Black Wire from Pump (Ground) to ground terminal of switch. Attach the pigtailed Black wire from switch ground terminal to vehicle ground bar.

613-155 (SWITCH, WIPER) AVENGER MODELS

- Red Wire from Wiper harness plugs into green open blade terminal in the vehicle wire harness. See kit instructions for further info.
- Pigtailed ground wire from Wiper Motor (brown), to terminal (#2) of Wiper Switch. Attach the pigtailed Brown wire over to ground bar.
- White Wire from Wiper Motor to remaining terminal (#3)
- Red Jumper wire pigtailed from Ignition Switch (single terminal on ignition switch, Power when key turned on), to the ground terminal on the wiper switch.

613-155 (SWITCH, WIPER) FRONTIER MODELS

- Red Wire from Wiper harness plugs into pink open blade terminal in the vehicle wire harness. See kit instructions for further info.
- Pigtailed ground wire from Wiper Motor (brown), to terminal (#2) of Wiper Switch. Attach the pigtailed Brown wire over to ground bar.
- White Wire from Wiper Motor to remaining terminal (#3)
- Red Jumper wire plugs into a “T” connector installed to the same open pink wire in the vehicle harness that the red wire from the wiper is connected..(Power with key off).The other end of the red jumper wire plugs into the ground terminal of the wiper switch.

613-156 (SWITCH, FOG LIGHTS)

Connect the short jumper to the piggy back terminal (#3) on the Headlight Switch. Connect the other end to the center terminal # 2 (power) on the foglight switch.

Connect the White wire from the 613-109 fog light harness to the #3 (load) terminal on the foglight switch.

Connect daisy-chained Brown wire from the foglight wire harness to the ground terminal on the switch and over to the ground bar on the vehicle.

613-157 (SWITCH, HEATER FAN)

Connect the Red wire from the heater core wire harness to the # 3 terminal on the heater fan switch.

Connect the Orange wire from the heater core fan assembly to the # 6 terminal of the heater fan switch.

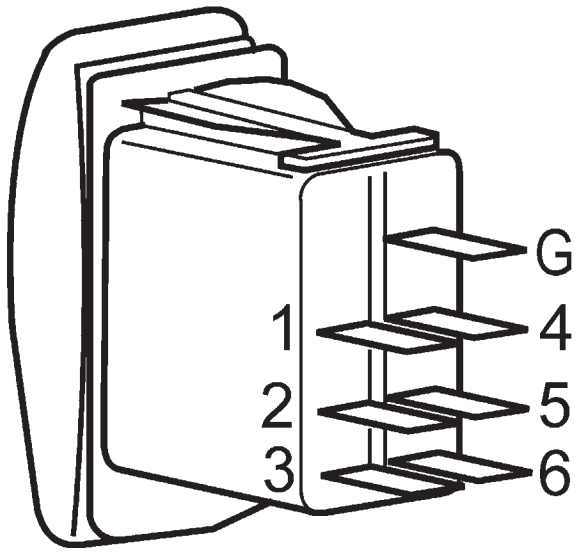
Connect the Brown or Black ground wire from the heater core fan assembly to the ground bar.

Connect the Red /White stripe wire located in the vehicle wire harness to the # 2 terminal of the fan switch (this terminal is bridged with the adjacent # 5 terminal).

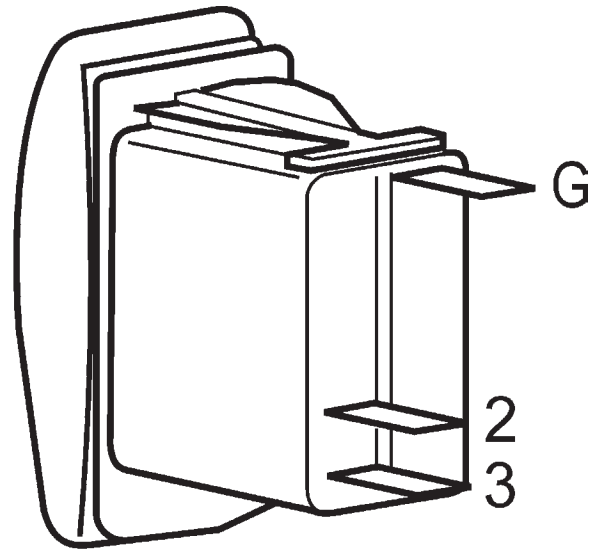
Connect the supplied ground wire from the ground terminal of the fan switch over to the vehicle ground bar.

613-158 (SWITCH, ROLL BAR LIGHT KIT)

- Attach the 2 White wires with blades from the Roll Bar Lights to the # 3 terminal of the Light Switch (load)
- Attach the short Red power wire (supplied) to the #2 terminal of the switch.
- Plug the male bullet connector of the short Red power wire into the Purple spare accessory wire that is already attached to the fuse block. **Note: If this purple accessory wire is already in use for the bilge pump or heater kit, crimp the "T" tap connector supplied with the kit, to the Purple wire and plug the Red wire into this connection. Install the correct fuse. The fuse size may vary depending on any other accessories that may be installed at this same junction.**
- Connect the supplied ground wire from the ground terminal on the switch to the ground bar on the vehicle



2 Speed Heater Kit Switch



All Other Switches