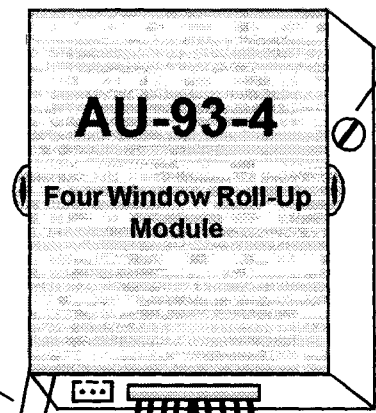
OMEGA
RESEARCH AND DEVELOPMENT INC

Variable Resistor:
- Turn Clockwise to increase power to window motors
- Turn Counterclockwise to decrease power to window motors



Green Loop:
Uncut Unit accepts a momentary pulse to activate
Cut Unit accepts a constant output to activate

Purple + Positive Activation input
Orange - Negative Activation input
Yellow Ignition Input

Window Switch
Brown/Black Rear Right Window Switch Side
Cut
Blue/Black Rear Right Window Motor Side
Window Motor

15 A Fuse
Red Constant 12 Volts
Black Ground

Window Switch
White/Black Rear Left Window Switch Side
Cut
Green/Black Rear Left Window Motor Side
Window Motor

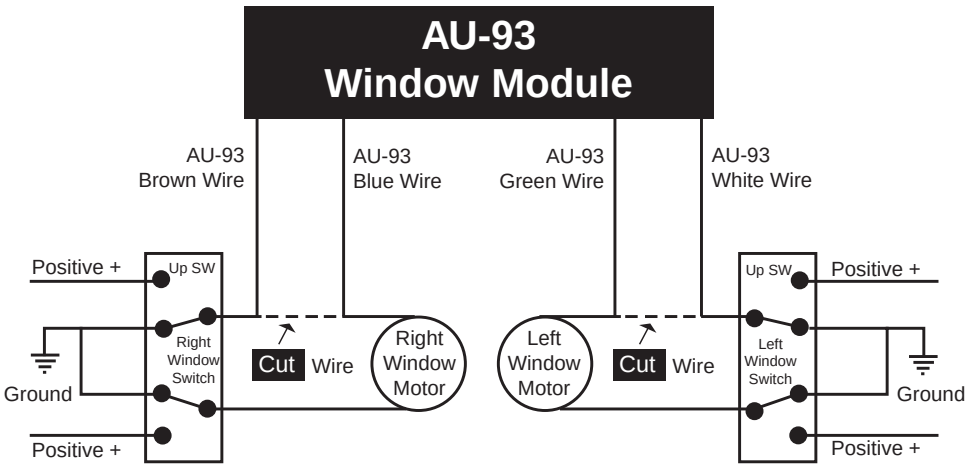
Window Switch
White Front Left Window Switch Side
Cut
Green Front Left Window Motor Side
Window Motor

Blue Front Right Window Motor Side
Window Motor
Cut
Window Switch
Brown Front Right Window Switch Side

Note #211 Reverse Polarity Rest at Ground

4 or 5 WIRE REVERSE POLARITY REST AT GROUND TYPE SYSTEM:

When probing with a Volt/Ohm meter you will find power on one wire leading into the switch, and ground on the remaining three or four wires. However, upon operating the switch, you will find that one of the grounds you have found will disappear and power will appear. Upon moving the switch in the other direction another ground will disappear and power will temporarily show up. The remaining one or two wires will always have a ground apparent.



- One wire has +12 volts all the time.
- One wire or two wires are grounded all the time.
- Two wires are grounded then change to 12 volts when moving switch.

NOTE: When the AU-93 is activated, the AU-93 Blue & Green wires will have +12 volts output to roll up the window, so it must be connected to the wire going to the vehicle's window motor. DO NOT CONNECT AU-93 BLUE OR GREEN WIRES TO THE VEHICLE'S WINDOW SWITCH WIRE BECAUSE YOU WILL HAVE A SHORT AND BLOW FUSES OR DAMAGE THE AU-93 WHEN AU-93 IS ACTIVATED.

NOTE: When the AU-93 is NOT activated, the AU-93 Brown & Blue wires are connected so your window will work from vehicle's window switch as it did before, only now it will pass through the AU-93. Once the AU-93 is activated, it will disconnect the Brown wire completely and the Blue wire will have a +12 volt output.

NOTE: When the AU-93 is NOT activated, the AU-93 White & Green wires are connected so your window will work from vehicle's window switch as it did before, only now it will pass through the AU-93. Once the AU-93 is activated it will disconnect the White wire completely,and the Green wire will have a +12 volt output.

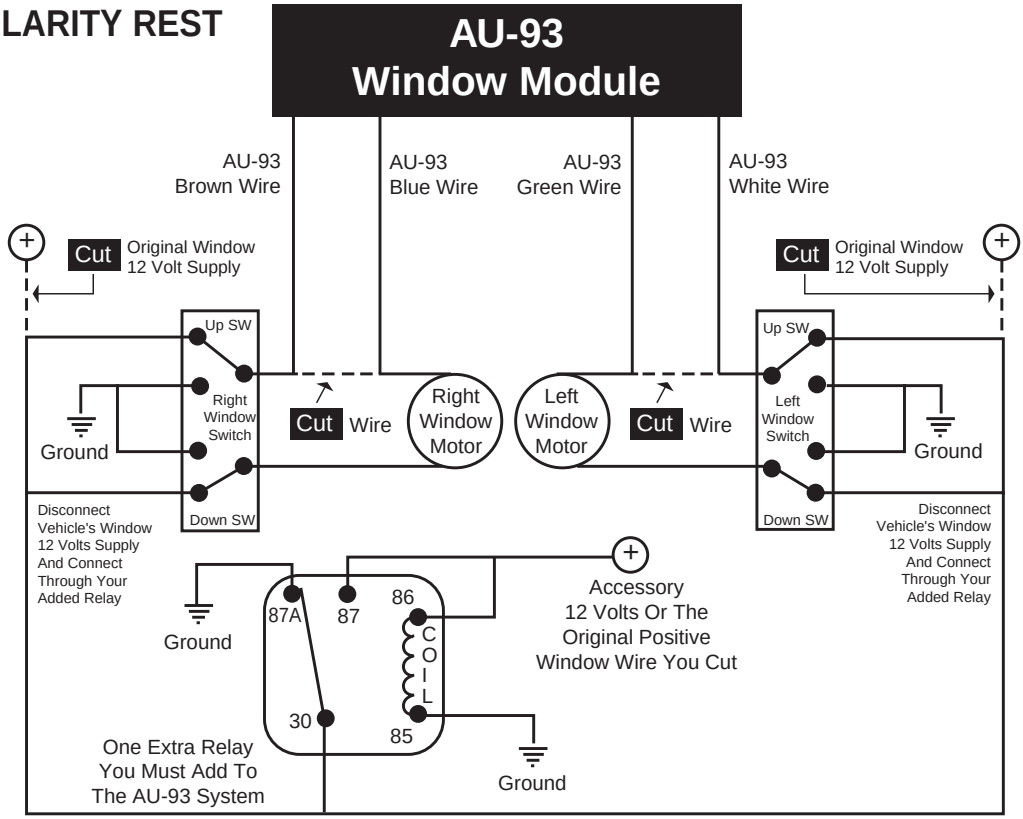
NOTE: The AU-93 requires a rest at ground system for its built-in electronic sensor to shut off the window motors once the windows have rolled all the way up.

Note #212 Reverse Polarity Rest at Positive

4, 5 or 6 WIRE REVERSE POLARITY REST AT POSITIVE TYPE SYSTEM:

When probing with a Volt/Ohm meter you will find 12 volt power on three or four wires leading into the switch, and ground on the remaining one or two wires.

Upon operating the switch you will find that one of the 12 volt power wires you have found will disappear and ground will appear. Upon moving the switch in the other direction another 12 volt will disappear and ground will temporarily show up. 12 volts is present all the time on two wires or sometimes on one wire if bussed internally within the switch. The remaining two ground wires will always have a ground apparent on them. Sometimes the two grounds are supplied by one wire and then bussed internally within the switch.



- One or two wires have +12 volts all the time.
- One or two wires are grounded all the time.
- Two wires are 12 volts then change to ground when moving switch.

NOTE: When the AU-93 is activated the AU-93 Blue & Green wires will have +12 volts output to roll up the window, so it must be connected to the wire going to the vehicle's window motor. **DO NOT connect AU-93 Blue or Green wires to the vehicle's window switch wire because you will have a short and blow fuses or damage the AU-93 when AU-93 is activated.**

NOTE: When the AU-93 is NOT activated, the AU-93 Brown & Blue wires are connected so your window will work from vehicle's window switch as it did before, only now it will pass through the AU-93. Once the AU-93 is activated it will disconnect the Brown wire completely and the Blue wire will have a +12 volt output.

NOTE: When the AU-93 is NOT activated, the AU-93 White & Green wires are connected so your window will work from vehicle's window switch as it did before, only now it will pass through the AU-93. Once the AU-93 is activated it will disconnect the White wire completely and the Green wire will have a +12 volt output.

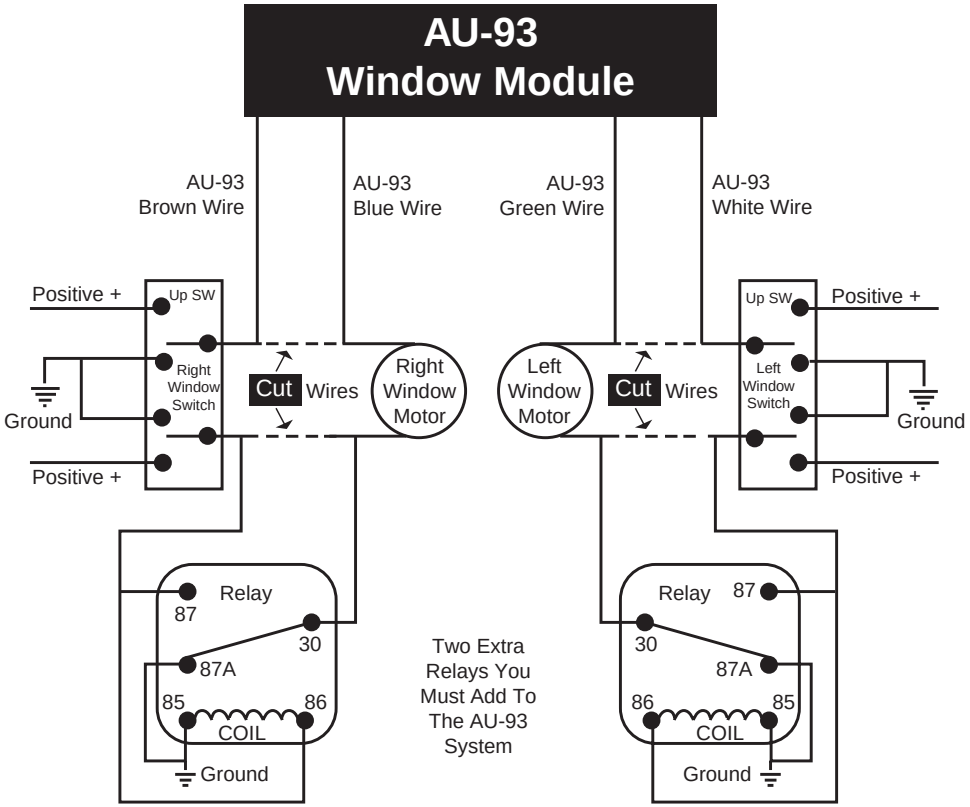
NOTE: The extra relay shown simply converts the rest at positive systems to rest at ground system required by the AU-93 when the ignition switch is turned off.

Note #213 Reverse Polarity Rest Open

4 - WIRE REVERSE POLARITY REST OPEN TYPE SYSTEM:

The reversal rest open system usually has four wires attached to it. Two wires bring in power and ground, and the other two wires are from the window motor windings. Internally the switch busses the power and ground to opposite sides of the upper switch. The window motor windings are connected to the center two switches poles and rest at zero potential when in a relaxed position. If the switch is moved in the down direction, internal contacts will cause the motor windings to connect to the two upper power and ground connections. If the switch is moved in the up position, connection is made between the center pole motor winding wires and the positive and negative connection of the bottom of the switch.

- One wire has +12 volts all the time.
- One wire has ground all the time.
- Two wires are zero potential then change to +12 volt or ground when moving switch.



NOTE: When the AU-93 is activated the AU-93 Blue & Green wires will have +12 volts output to roll up the window, so it must be connected to the wire going to the vehicle's window motor. **DO NOT connect AU-93 Blue or Green wires to the vehicle's window switch wire because you will have a short and blow fuses or damage the AU-93 when AU-93 is activated.**

NOTE: When the AU-93 is NOT activated, the AU-93 Brown & Blue wires are connected so your window will work from vehicle's window switch as it did before, only now it will pass through the AU-93. Once the AU-93 is activated it will disconnect the Brown wire completely and the Blue wire will have a +12 volt output.

NOTE: When the AU-93 is NOT activated, the AU-93 White & Green wires are connected so your window will work from vehicle's window switch as it did before, only now it will pass through the AU-93. Once the AU-93 is activated it will disconnect the White wire completely and the Green wire will have a +12 volt output.

NOTE: The extra relay shown simply converts the rest open systems to rest at ground system required by the AU-93 when the ignition switch is turned off.