

### *Installation Improvement*

The SmartWindows 4 power line no longer needs its own fusing. Instead, you may connect the SmartWindows 4 18awg RED wire directly to the system's 5-amp-fused 18awg RED power wire.

### **TechTip: Adding SmartWindows 4**

#### **to AvantGuard 4, Concept 600, IntelliGuard 9000 or IntelliGuard Millennia**

This memo will assist when installing SmartWindows 4 with any of the above listed systems. If doing so, it will be necessary to use the CliffNet Wizard Pro software.

#### **If using SmartWindows 4 WITH the system's window rollup electronics:**

Install SmartWindows 4 to control the front two windows and the system's window rollup electronics to control the rear windows. When installation is complete:

1. Plug the Wizard cable into any available 3-pin DataPort connection in the installation (on SmartWindows 4, for example).
2. Launch the CliffNet Wizard PRO program.
3. Click the *Install* icon button at the top of the screen.
4. Turn ignition on and roll down all windows.
5. Make sure the check box next to the *Program Windows* button indicates **enabled**, then click the *Program Windows* button. The rear windows (connected to the built-in window roll-up electronics) will close.
6. Once the rear windows reach the top, wait 20 seconds, then click *OK*.
7. Click the *Windows* icon button at the top of the screen.
8. Click the *Enter Program Mode* button.
9. Hold one of the front window switches "up" for about 2 seconds, then release (the switch must be connected to SmartWindows 4). The window should move immediately when you hit the switch.
10. Allow the windows to finish the programming cycle. This should take about 2 minutes and is indicated as complete when both windows vent slightly.
  - If you have another SmartWindows 4 to program, select ID2 from scroll bar at top and repeat steps 7-10.
11. Click *done*.
12. Click *OK* to save and exit or *Apply* to save and test/adjust vent duration.

#### **If using SmartWindows 4 INSTEAD OF the system's window rollup electronics:**

Install the SmartWindows 4 module(s). When installation is complete:

1. Plug the Wizard cable into any available 3-pin DataPort connection in the installation (on SmartWindows 4, for example).
2. Launch the CliffNet Wizard PRO program.
3. Click the *Install* icon button at the top of the screen.
4. Make sure the check box next to the *Program Windows* button indicates **disabled**, then click the *Program Windows* button. This will disable the system's built-in window roll-up electronics. If you do not do this, there will be a 7-second delay after arming until SmartWindows 4 activates.
5. Click *OK*.
6. Click the *Windows* icon button at the top of the screen.
7. Turn ignition on and roll down all windows.
8. Click the *Enter Program Mode* button.
9. Hold one of the window switches "up" for about 2 seconds, then release (the switch must be connected to SmartWindows 4). The window should move immediately when you hit the switch.
10. Allow the windows to finish their programming cycle. This should take about 2 minutes and is indicated as complete when both windows vent slightly.
11. If you have another SmartWindows 4 to program, select ID2 from scroll bar at top and repeat steps #7-11. Otherwise, go to next step.
12. Click *done*.
13. Click *OK* to save and exit or *Apply* to save and test/adjust vent duration.

## SmartWindows 4

**Note:** If you can close the vehicle's windows by turning the key in the door, SmartWindows 4 will not operate properly. Please see the Window Control section in this binder.

### Install the SmartWindows 4 G4 Accessory

1. Connect one end of the CliffNet Dataport Interconnect cable to the alarm system control unit and connect the other end in to the SmartWindows 4 module.
2. Connect the 14AWG BLACK wire to the chassis ground.
3. Connect the 14AWG RED wire from the pigtail to a 30 amp fuse at the battery positive cable clamp, connect the 18AWG RED wire to a 5 amp fuse at the battery positive cable clamp. Connect 18AWG BLACK wire to the battery negative battery cable clamp.

**Note:** For one touch operation on the passenger switch, connect between the passenger switch and the window motor. For normal passenger switch operation, connect anywhere between the driver and passenger switches.

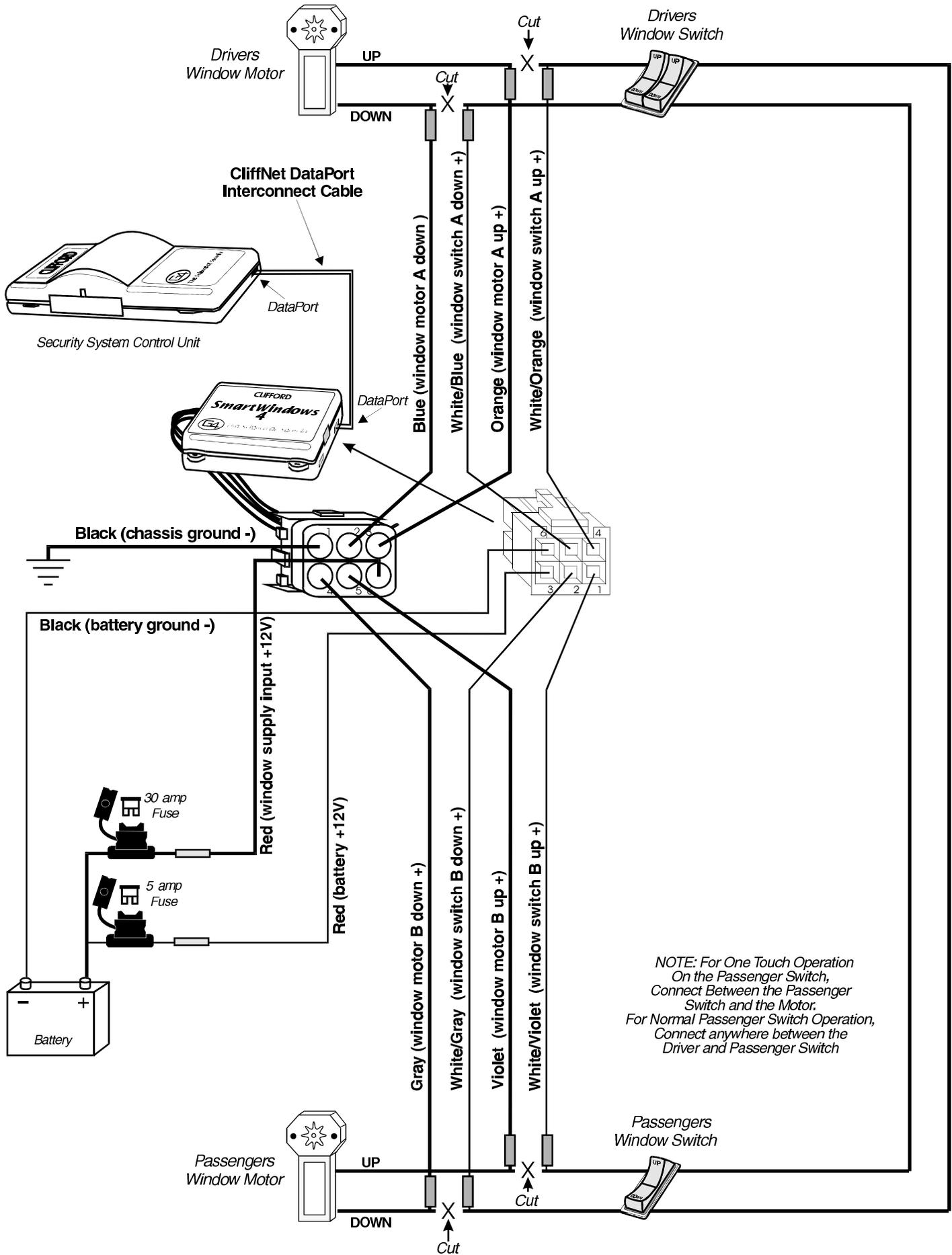
### Motor/Switch Connections

1. Turn the ignition switch to the "ON" position.
2. Access the wires at the window motor.
3. Connect the negative voltmeter lead to ground.
4. Connect the other voltmeter lead to a wire at the driver's side window motor and find the wire that shows 12v while pressing the driver's window switch as if rolling the window up.
  - a. If the voltmeter reads 12 volts while pressing the "UP" side of the switch, cut this wire. (If you do not get a 12v reading while rolling the windows up, then connect (-) lead of the voltmeter to + 12V and probe the window wires. If you find a wire that shows + 12v while rolling the window up/down, go to the *Motor/Switch Connections - Negative Switches* section below.)
  - b. Connect the ORANGE wire to the motor side of the cut wire and the WHITE/ORANGE wire to the switch side.
5. Find the wire that shows 12V while pressing the driver's window switch as if rolling the window down on the driver's side.
  - a. If the voltmeter reads 12 volts while pressing DOWN side of the switch, cut this wire.
  - b. Connect the BLUE wire to the window motor side of the cut line and the WHITE/BLUE wire to the switch side.
6. Go to the passenger's side window switch wires and find the wire that shows 12v while pressing the passenger's window switch as if rolling the window up.
  - a. If the voltmeter reads 12 volts while pressing the "UP" side of the switch, cut this wire.
  - b. Connect the VIOLET wire to the motor side of the switch and the WHITE/VIOLET wire to the passenger's switch side.
7. Find the wire that shows 12V while pressing the passenger window switch as if rolling the window down on the passenger window.
  - a. If the voltmeter reads 12 volts while pressing DOWN side of the switch, cut this wire.
  - b. Connect the GRAY wire to the window motor side of the cut line and the WHITE/GRAY wire to the switch side.

**NOTE:** If the vehicle has power window switches only on the center console (no door switches), you may make the appropriate connections at the switch. If there are door switches, you must make the connections at each motor.

### Motor/Switch Connections - Negative Switches

1. Make sure the ignition switch is turned to the "ON" position.
2. Access the wires at the window motor.
3. Connect the negative voltmeter lead to 12V.
4. Connect the other voltmeter lead to a wire at the driver's side window motor and find the wire that shows 12v while pressing the driver's window switch as if rolling the window up.
  - a. If the voltmeter reads 12 volts while pressing the "UP" side of the switch, cut this wire.
  - b. Connect the BLUE wire to the motor side of the cut wire and the WHITE/BLUE wire to the switch side.
5. Find the wire that shows 12V while pressing the driver's window switch as if rolling the window down on the driver's side.
  - a. If the voltmeter reads 12 volts while pressing DOWN side of the switch, cut this wire.
  - b. Connect the ORANGE wire to the window motor side of the cut line and the WHITE/ORANGE wire to the switch side.
  - b. Connect the GRAY wire to the motor side of the switch and the WHITE/GRAY wire to the passenger's switch side of the cut line.



### **Motor/Switch Connections - Negative Lead (Continued)**

6. Go to the passenger's side window switch wires and find the wire that shows 12v while pressing the passenger's window switch as if rolling the window up.
  - a. If the voltmeter reads 12 volts while pressing the "UP" side of the switch, cut this wire.
7. Find the wire that shows 12V while pressing the window switch as if rolling the window down on the passenger window.
  - a. If the voltmeter reads 12 volts while pressing DOWN side of the switch, cut this wire.
  - b. Connect the VIOLET wire to the window motor side of the cut line and the WHITE/VIOLET wire to the switch side.

**NOTE: If the vehicle has power window switches only on the center console (no door switches), you may make the appropriate connections at the switch. If there are door switches, you must make the connections at each motor.**

### **Program the Windows**

1. Use the programming grid in the *Installer-Programmable Features* section in the installation manual for the alarm system you are installing to program SmartWindows 4. Make sure both windows are rolled down before you begin programming.
2. Turn the ignition ON.
3. Select the appropriate row/column from the **installer programming grid**, the siren will chirp twice. **Press and hold** the driver's window switch "UP" for approximately two seconds.
4. Release the switch and allow the window to roll up. After the window reaches the top, it will pause. It will then automatically complete programming by rolling both windows up/down several times.
5. Programming is complete when both windows vent. You may then turn off the key to exit programming or if you have a second set of SmartWindows 4 installed, **touch and release** the driver's window UP for the second set of windows. It will follow the same process as the first set you programmed. If the programming doesn't work, start over from step #1.

Memory is nonvolatile and will NOT have to be reprogrammed in the event of a power loss.

To fine tune the vent or to program the windows without using the valet switch, use the CliffNet Wizard Pro.