

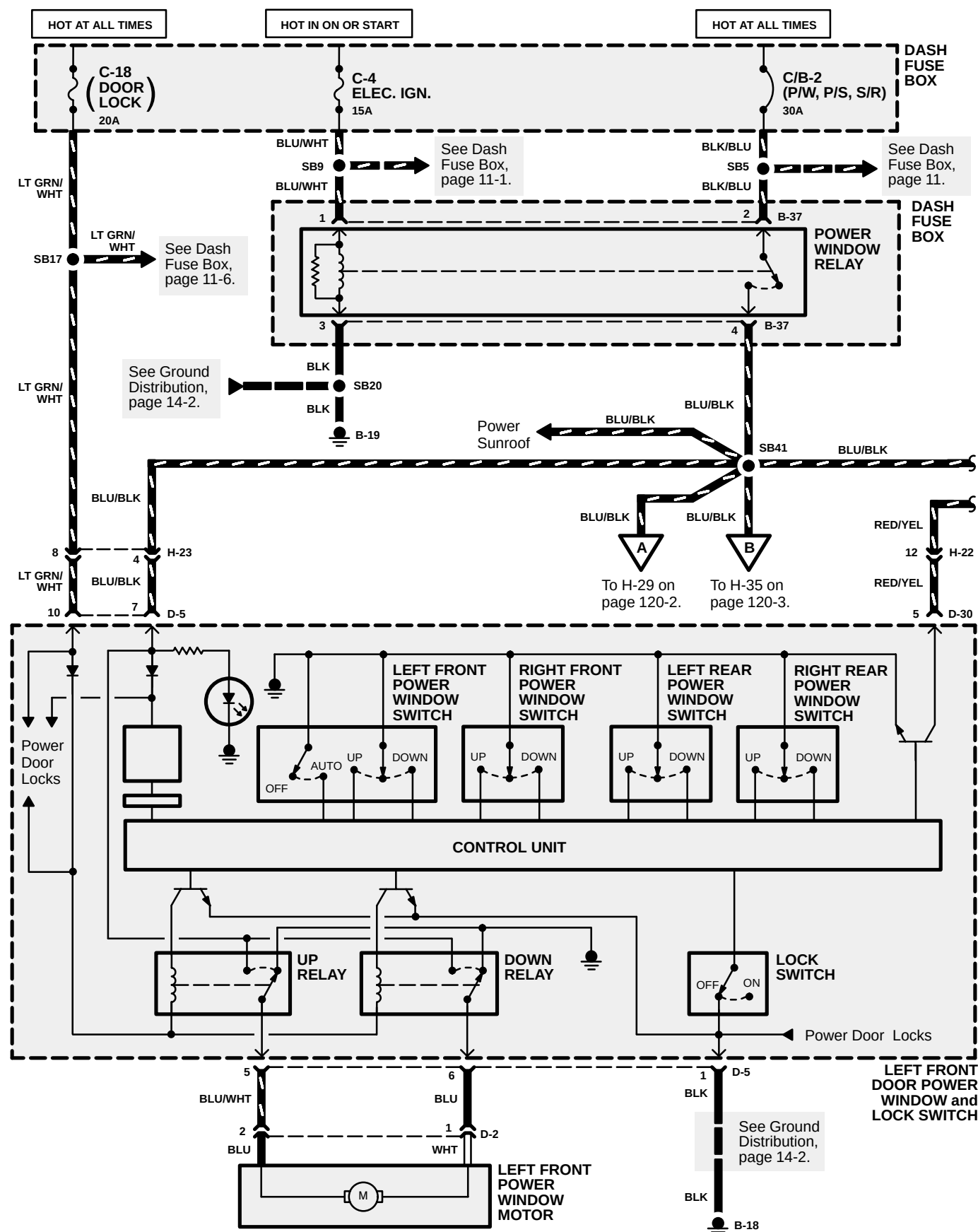
POWER WINDOWS

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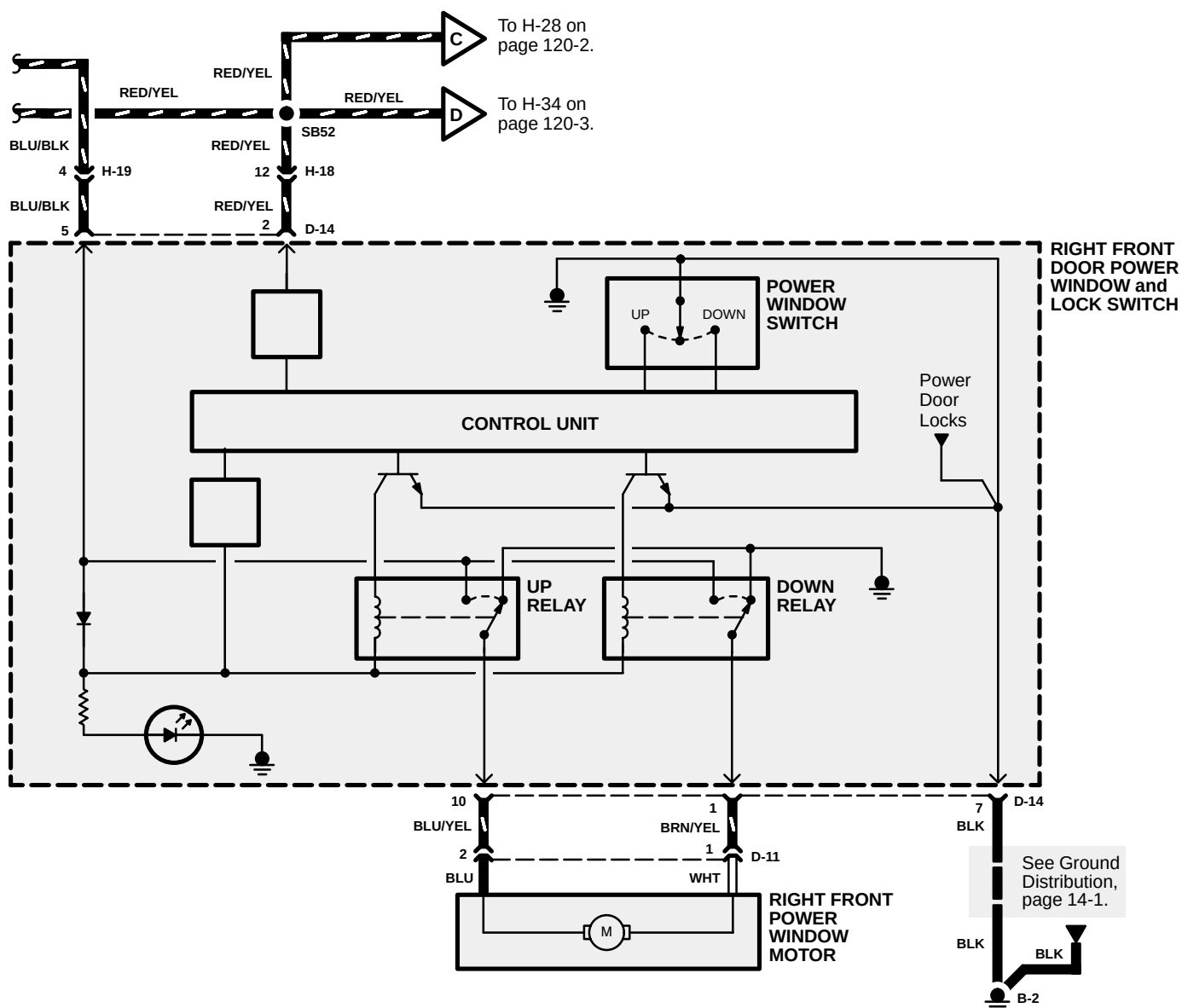
POWER WINDOWS

Circuit Schematic



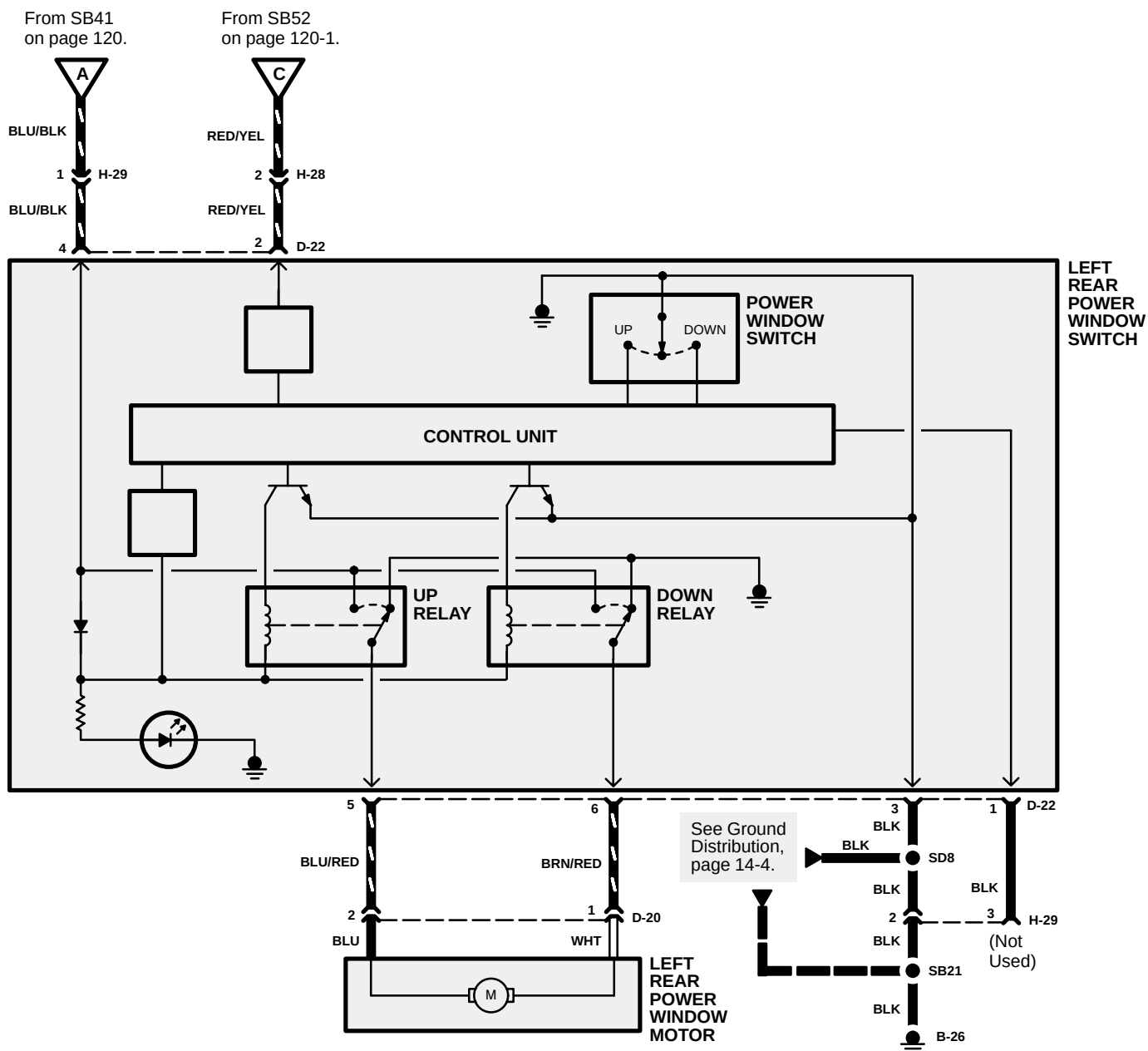
POWER WINDOWS

Circuit Schematic



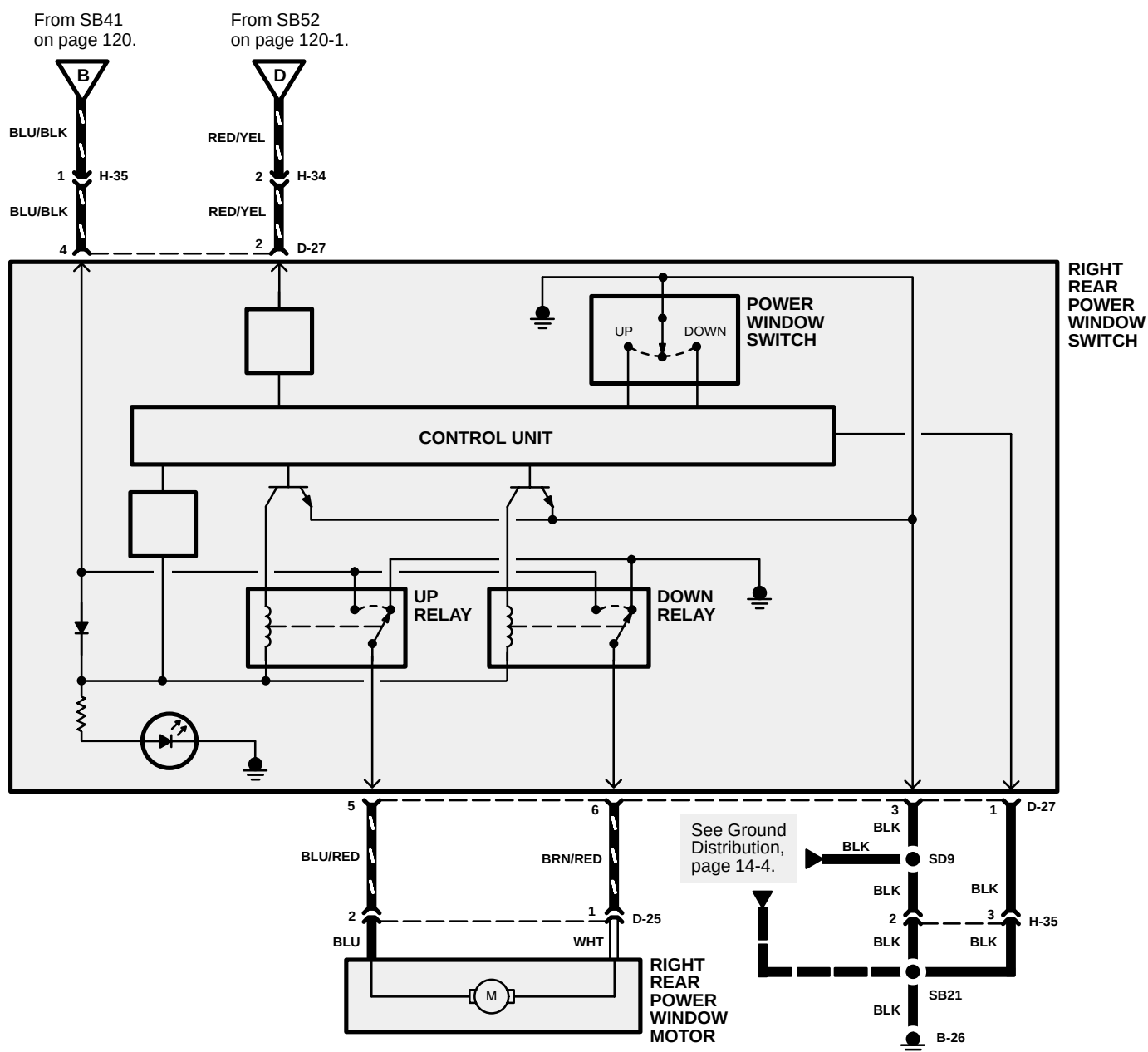
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Circuit Schematic



POWER WINDOWS

Circuit Schematic



POWER WINDOWS

Component Location Index

(Refer to Section 201 for photographs.)

<u>Component</u>	<u>Photo No.</u>
Dash Fuse Box	Behind left dash side trim panel 55
Left Front Power Window	
Motor	Inside front of left front door, behind trim pad 79
Left Rear Power Window	
Motor	Inside front of left rear door, behind trim pad 84
Power Window Relay	In dash fuse box 56
Right Front Power Window	
Motor	Inside front of right front door, behind trim pad 79
Right Rear Power Window	
Motor	Inside front of right rear door, behind trim pad 84
 <u>Connector</u>	
D-2 (2-BLK)	Inside front of left front door, behind trim pad 79
D-11 (2-BLK)	Inside front of right front door, behind trim pad 79
D-20 (2-BLK)	Inside front of left rear door, behind trim pad 84
D-25 (2-BLK)	Inside front of right rear door, behind trim panel 84
H-18 (18-WHT)	Behind right dash side trim panel, in access hole 54
H-19 (8-BLK)	Behind right dash side trim panel, in access hole 54
H-22 (18-WHT)	Behind left dash side trim panel, in access hole 54
H-23 (8-BLK)	Behind left dash side trim panel, in access hole 54
H-28 (6-WHT)	In left center pillar 81
H-29 (3-BLU)	In left center pillar 81
H-34 (6-WHT)	In right center pillar 81
H-35 (3-BLU)	In right center pillar 81
 <u>Ground</u>	
B-2	Above right dash side trim panel 116
B-18	Behind top of left dash side trim panel 71
B-19	Behind top of left dash side trim panel 71
B-26	Below rear of center console 67

POWER WINDOWS

Circuit Operation

Fuse C-18 applies battery voltage at all times to the left front door power window switch. The circuit breaker C/B-2 applies battery voltage at all times to the power window relay. With the starter switch in ON or START, fuse C-4 applies battery voltage to the power window relay. The power window relay energizes and allows battery voltage from the circuit breaker to all the door power window switches.

Left Front Window

When the left front power window switch is moved to UP, a signal is sent to the control unit. The control unit grounds the coil of the up relay. The contacts of the relay close, and voltage is applied to the left front power window motor. The motor's ground path is through the open contacts of the down relay. The motor drives the window up as long as the switch is held. When the switch is moved to DOWN, a signal is sent to the control unit. The control unit grounds the coil of the down relay. The contacts of the relay close, and voltage is applied to the motor. The motor's ground path is through the open contacts of the up relay. The motor drives the window down as long as the switch is held.

Auto Down

When the left front power switch is moved to AUTO, a signal is sent to the control unit. The control unit grounds the coil of the down relay. The contacts of the relay close, and voltage is applied to the left front power window motor. The motor's ground path is through the open contacts of the down relay. The control unit keeps the relay energized until the motor drives the window to the fully open position.

Passenger's Window

The passenger windows can be operated from the left front door power window switch or the respective door power window switch. The passenger's door power window switches can only operate the windows when the lock switch in the left front power window switch is in the OFF position.

When a passenger's door power window switch is moved to UP, a signal is sent to the respective control unit. The control unit grounds the coil of the up relay. The contacts of the relay close, and voltage is applied to the respective power window motor. The motor's ground path is through the open contacts of the down relay. The motor drives the window up as long as the switch is held. When the switch is moved to DOWN, a signal is sent to the control unit. The control unit grounds the coil of the down relay. The contacts of the relay close, and voltage is applied to the motor. The motor's ground path is through the open contacts of the up relay. The motor drives the window down as long as the switch is held.

When a passenger's power window is being controlled by the switch in the left front door power window switch, the control unit in the left front door power window switch sends a multiplexed signal to the control units in the other power window switches. The signal tells the appropriate control unit to energize either the up or down relay depending on the function requested. Once the relay is energized, power is supplied to the respective power window motor (see above paragraph) and the motor drives the window in the proper direction as long as the switch is held. Since the signal is multiplexed, more than one passenger's window can be controlled by the left front door power window switch simultaneously.