

2000 ACCESSORIES & EQUIPMENT

Power Windows - Dakota & Durango

DESCRIPTION & OPERATION

A permanent magnet motor moves each of the power windows. A master switch on driver's door controls all windows and can lock out rear window operation (Dakota Quad Cab and Durango). Power is supplied from a circuit breaker in the junction block when ignition is on. A positive and negative battery connection to either of the 2 motor terminals will cause the motor to rotate in one direction. Reversing current through these same 2 connections will cause the motor to rotate in the opposite direction. Each individual motor is grounded through the master switch by a wire attached to the instrument panel reinforcement.

Vehicles are equipped with an Auto Down feature. Driver's window can be lowered without having to hold the switch in the down position. Auto Down feature can be activated by pressing down switch past first detent.

ADJUSTMENTS

WINDOWS

Remove door trim panel. See **DOOR TRIM PANEL** under REMOVAL & INSTALLATION. Loosen bolts holding window to regulator. Raise window fully, seating window in frame. Tighten bolts. Install door trim panel.

TROUBLE SHOOTING

POWER WINDOWS

On Dakota, inspect circuit breaker No. 20 (20-amp) in junction block. On Durango inspect circuit breaker No. 21 (25-amp) in junction block. On all models, junction block is located on left end of instrument panel. Inspect fuse No. 9 (40-amp on Dakota, 50-amp on Durango) in Power Distribution Center (PDC). PDC is located in left front corner of engine compartment. Inspect power window system ground circuit. See **WIRING DIAGRAMS** .

SYSTEM TESTS

ALL WINDOWS INOPERATIVE

Dakota

1. Check circuit breaker for power window system. See **TROUBLE SHOOTING** . Replace circuit breaker as necessary. If circuit breaker is okay, go to next step.
2. Disconnect negative battery cable. Remove driver's front power window switch. See **POWER WINDOW SWITCH** under REMOVAL & INSTALLATION. Check for continuity between ground and terminal No. 3 (Black wire) at driver power window switch wiring harness connector. If continuity exists, go to next step. If continuity does not exist, repair open in Black wire between driver power window

switch connector and ground. See **WIRING DIAGRAMS** .

3. Connect negative battery cable. Turn ignition on. Measure voltage between ground and terminal No. 5 (Tan wire) at driver's power window switch wiring harness connector. If battery voltage is present, check driver power window switch. See **POWER WINDOW SWITCH** under COMPONENT TESTS. If battery voltage is not present, repair open Tan wire between driver power window switch connector and ignition switch. See **WIRING DIAGRAMS** . See POWER DISTRIBUTION article in WIRING DIAGRAMS.

Durango

1. Check circuit breaker for power window system. See **TROUBLE SHOOTING** . Replace circuit breaker as necessary. If circuit breaker is okay, go to next step.
2. Disconnect negative battery cable. Remove driver's front power window switch. See **POWER WINDOW SWITCH** under REMOVAL & INSTALLATION.
3. Check for continuity between ground and terminal No. 5 (Black wire) at driver's power window switch wiring harness connector. If continuity exists, go to next step. If continuity does not exist, repair open in Black wire between driver's power window switch connector and ground. See **WIRING DIAGRAMS** .
4. Reconnect negative battery cable. Turn ignition on. Measure voltage between ground and terminal No. 4 (Tan wire) at driver's power window switch wiring harness connector. If battery voltage is present, check driver's power window switch. See **POWER WINDOW SWITCH** under COMPONENT TESTS. If battery voltage is not present, repair open Tan wire between driver power window switch connector and ignition switch. See **WIRING DIAGRAMS** . See POWER DISTRIBUTION article in WIRING DIAGRAMS.

ONE WINDOW INOPERATIVE

NOTE: Window glass must be free to slide up and down for power window motor to function properly. If glass is not free to move up and down, motor will overload and trip the circuit breaker.

Place window glass halfway between up and down positions. Verify glass can be moved slightly from side to side, front to rear, and up and down. If glass does not move freely, check window glass, tracks and regulator for sticking, binding or improper adjustment. Repair as necessary and recheck system operation. If driver's door is inoperative, check motor. See **POWER WINDOW MOTOR** . If Auto-Down is inoperative, but all other functions are okay, replace driver door switch. If a switch LED is inoperative, but all other functions are okay, replace switch.

1. Disconnect negative battery cable. Remove power window switch from door with inoperative window. See **POWER WINDOW SWITCH** under REMOVAL & INSTALLATION. Connect negative battery cable. Turn ignition on. Check for battery voltage at power window switch harness connector. If battery voltage does not exist, repair open circuit to master window switch. If battery voltage exists, go to next step.
2. Check power window switch continuity. See **POWER WINDOW SWITCH** under COMPONENT TESTS. Replace faulty switch as necessary. If switch is okay, go to next step.
3. Check for continuity in each circuit between switch for inoperative window and motor. See **WIRING DIAGRAMS** . If continuity does not exist in any circuit, repair open circuit as necessary. If continuity

exists in all circuits, test power window motor. See **POWER WINDOW MOTOR** under COMPONENT TESTS.

COMPONENT TESTS

CIRCUIT BREAKER

1. Locate circuit breaker for power window system. See **TROUBLE SHOOTING** . Pull circuit breaker out slightly, but ensure circuit breaker terminals still contact terminals in junction block.
2. Connect voltmeter negative lead to ground. Using voltmeter positive lead, check both terminals of circuit breaker for battery voltage. If voltmeter indicates battery voltage at both terminals, circuit breaker is okay.
3. If voltmeter indicates battery voltage at one terminal only, replace faulty circuit breaker. If voltmeter indicates no voltage at either terminal, check for an open or shorted circuit to circuit breaker. Repair as necessary and recheck system operation.

POWER WINDOW MOTOR

NOTE: Window motor and regulator are serviced as an assembly.

1. Disconnect negative battery cable. Remove door trim panel. See **DOOR TRIM PANEL** under REMOVAL & INSTALLATION. Disconnect window motor connector. Using jumper wires, apply battery voltage to window motor terminals. Motor should operate, unless window is already at maximum travel.
2. Reverse jumper wires. Window should move in opposite direction. If window does not move in either direction, replace window motor.
3. If motor operates in one direction only, replace motor. See **POWER WINDOW MOTOR** under REMOVAL & INSTALLATION. If motor grunts and does not move, disconnect window glass from regulator plate. Check window glass, tracks and regulator for sticking, binding or improper adjustment. Repair as necessary and recheck system operation.

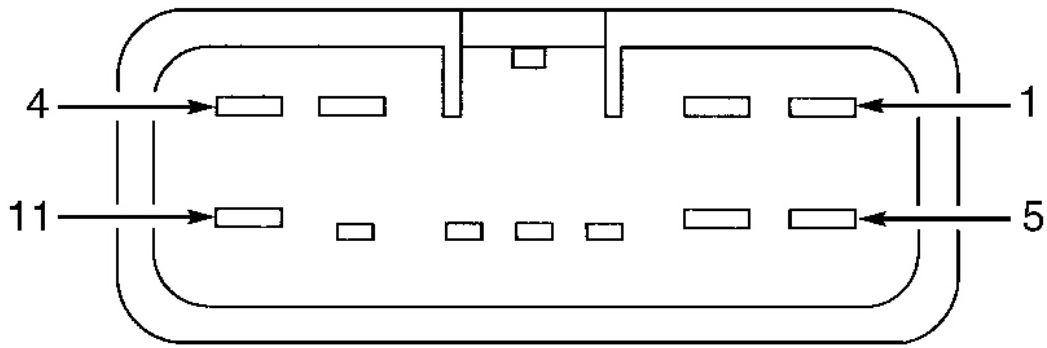
POWER WINDOW SWITCH

1. Remove window switch from door trim panel. See **POWER WINDOW SWITCH** under REMOVAL & INSTALLATION. Using an ohmmeter, check switch continuity. See appropriate WINDOW SWITCH CONTINUITY table. See **Fig. 1** or **Fig. 2** . Replace power window switch as necessary.
2. Vehicles equipped with Auto Down feature have electronic components in switch to actuate Auto Down. To test, check switch continuity, reconnect switch, turn ignition on and test feature. If Auto Down does not work, replace switch.



2000 Dodge Durango

2000 ACCESSORIES & EQUIPMENT 'Power Windows - Dakota & Durango



VIEW OF SWITCH SIDE CONNECTOR

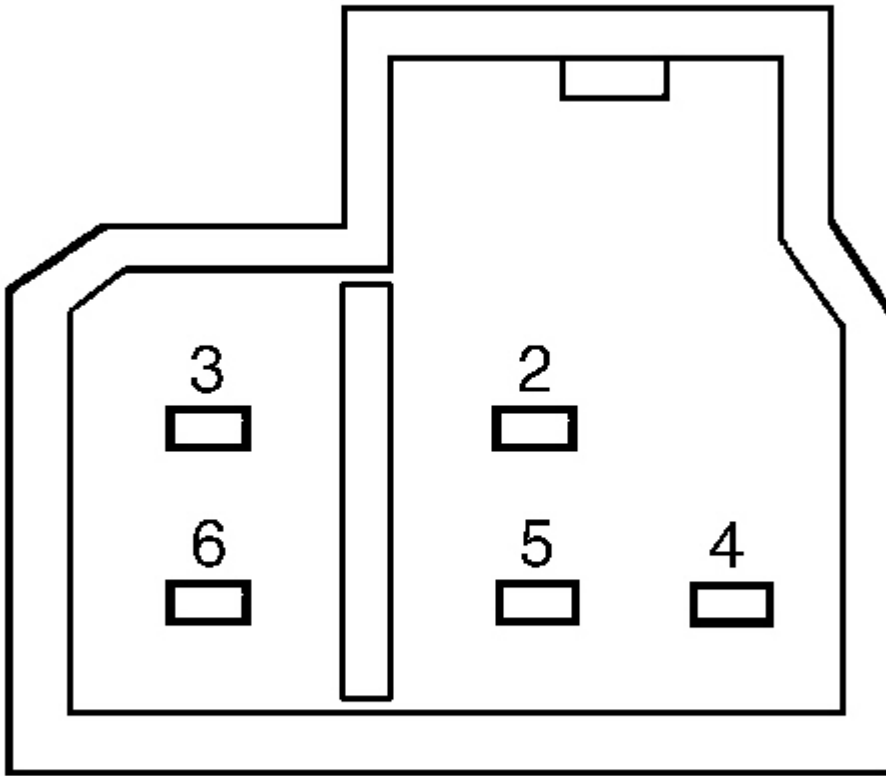
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Fig. 1: Identifying Driver's & Passenger's Power Window Switch Terminals (Dakota Except Quad Cab)
Courtesy of CHRYSLER CORP.



2000 Dodge Durango

2000 ACCESSORIES & EQUIPMENT 'Power Windows - Dakota & Durango



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Fig. 2: Identifying Passenger's Power Window Switch Terminals (Dakota Quad Cab & Durango)
 Courtesy of CHRYSLER CORP.

DRIVER'S WINDOW SWITCH CONTINUITY (DAKOTA EXCEPT QUAD CAB)

Switch Position	Continuity Between Terminals No.
Off	1 & 3; 2 & 3; 3 & 4; 3 & 6
Up	
Left	3 & 4; 5 & 6
Right	1 & 5; 2 & 3
Down	
Left	3 & 6; 4 & 5
Right	1 & 3; 2 & 5
Light	3 & 5



2000 Dodge Durango

2000 ACCESSORIES & EQUIPMENT 'Power Windows - Dakota & Durango

DRIVER'S WINDOW SWITCH CONTINUITY (DAKOTA QUAD CAB & DURANGO)

Switch Position	Continuity Between Terminals No.
Off	2 & 5; 3 & 5; 5 & 6; 5 & 11; 5 & 12; 5 & 13; 5 & 14
Up	
Left Front ⁽¹⁾	4 & 6
Right Front	2 & 5; 3 & 4
Left Rear	4 & 14; 5 & 13
Right Rear	4 & 12; 5 & 11
Down	
Left Front ⁽¹⁾	5 & 6
Right Front	2 & 4; 3 & 5
Left Rear	4 & 13; 5 & 14
Right Rear	4 & 11; 5 & 12
Auto Down	
Left Front	(1)
Power Window Lock-Out	4 & 7

(1) Vehicles equipped with Auto Down feature have electronic components in switch to actuate Auto Down. To test, check switch continuity, reconnect switch, turn ignition on and test feature. If Auto Down does not work, replace switch.

PASSENGER'S WINDOW SWITCH CONTINUITY (DAKOTA EXCEPT QUAD CAB)

Switch Position	Continuity Between Terminals No.
Off	1 & 4; 2 & 3
Up	2 & 3; 4 & 11
Down	1 & 4; 3 & 11
Light	8 & 11

PASSENGER'S WINDOW SWITCH CONTINUITY (DAKOTA QUAD CAB & DURANGO)

Switch Position	Continuity Between Terminals No.
Off	2 & 5; 3 & 6
Up	2 & 5; 3 & 4
Down	3 & 6; 4 & 5

REMOVAL & INSTALLATION

CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See **COMPUTER RELEARN PROCEDURES** article in **GENERAL INFORMATION** before disconnecting battery.

DOOR TRIM PANEL



Removal & Installation

Lower window to full down position, if possible. Remove screws attaching trim panel to door. Lift panel up and outward to release retainers. Disconnect door handle linkage and all wiring. remove trim panel. To install, reverse removal procedure.

POWER WINDOW MOTOR**Removal & Installation**

NOTE: Power window motor is integral to window regulator unit. If power window motor is faulty, entire window regulator must be replaced.

1. Remove door trim panel. See **DOOR TRIM PANEL** . Remove watershield. Remove inner and outer belt weatherstrip. Lower glass enough to align regulator arm-to-glass nuts with access holes in inner door panel.
2. Remove front glass run channel. Remove nuts attaching glass to regulator arm. Separate glass from regulator arm. Lift glass upward and remove from door. See **Fig. 3** .
3. Disconnect window motor wire connector. Loosen bolts in slotted holes attaching window regulator to inner door panel. Remove remaining window regulator mounting bolts. Remove window regulator and motor assembly through access hole in inner door panel. To install, reverse removal procedure.

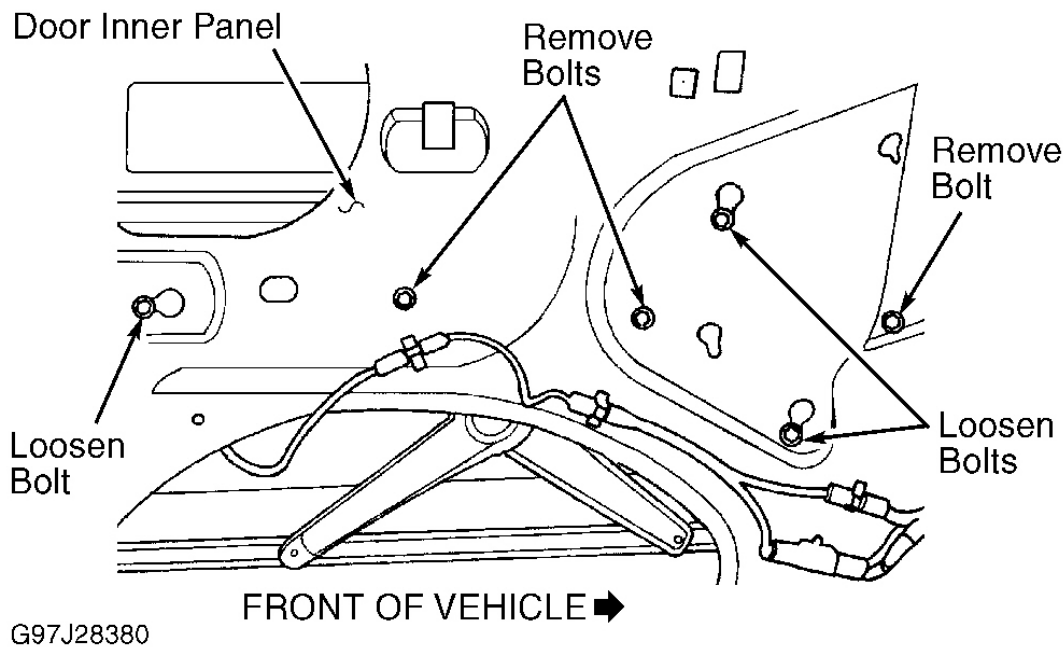


Fig. 3: Removing Power Window Motor
Courtesy of CHRYSLER CORP.

POWER WINDOW SWITCH

Removal & Installation (Dakota)

Disconnect negative battery cable. Using a trim stick, gently pry upper edge of switch bezel to release retainer securing bezel to door trim panel. Pull switch and bezel away from door trim panel and disconnect switch wire connector. To install, reverse removal procedure.

Removal & Installation (Durango)

Disconnect negative battery cable. Remove door trim panel. See **DOOR TRIM PANEL** . On driver's door, remove screws from back side of door trim panel and remove switch and bezel. On passenger's doors, gently pry snap clips at sides of window switch receptacle on back of door trim panel switch bezel. On all doors, remove power window switch from bezel. To install, reverse removal procedure.

WIRING DIAGRAMS



2000 Dodge Durango

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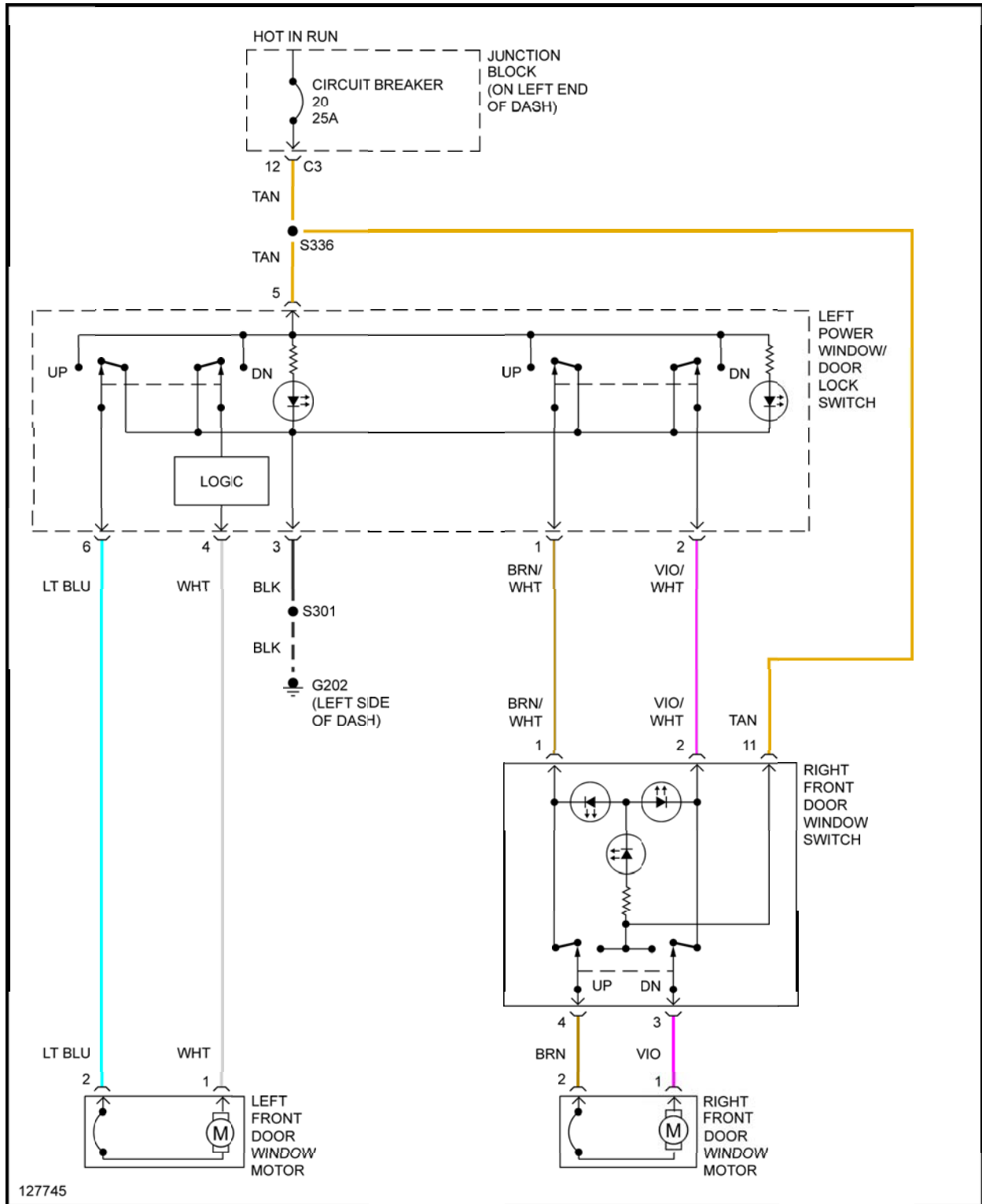
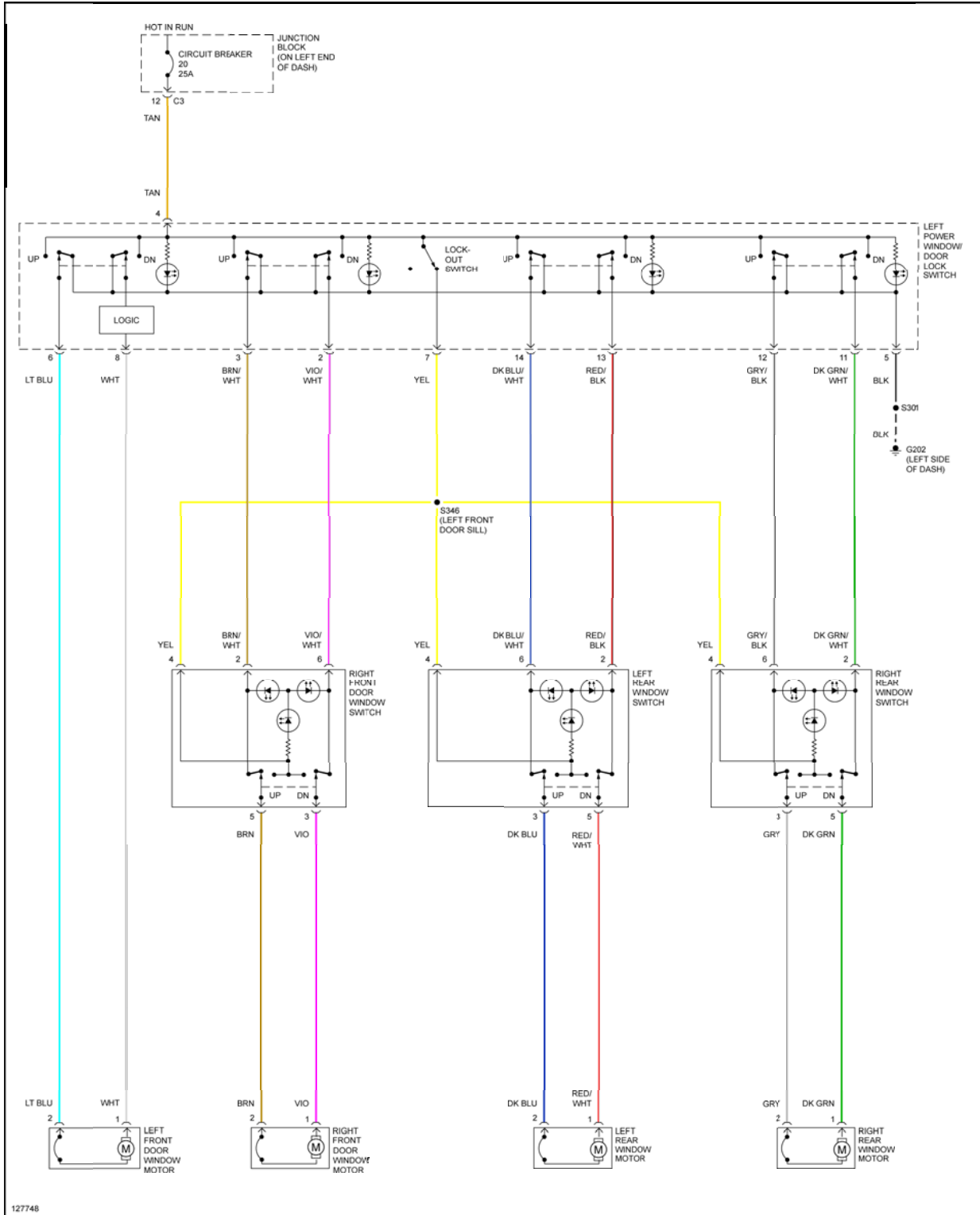


Fig. 4: Power Window System Wiring Diagram (Dakota - 2-Door)

2000 Dodge Durango

2000 ACCESSORIES & EQUIPMENT 'Power Windows - Dakota & Durango



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Fig. 5: Power Window System Wiring Diagram (Dakota - 4-Door)

2000 Dodge Durango

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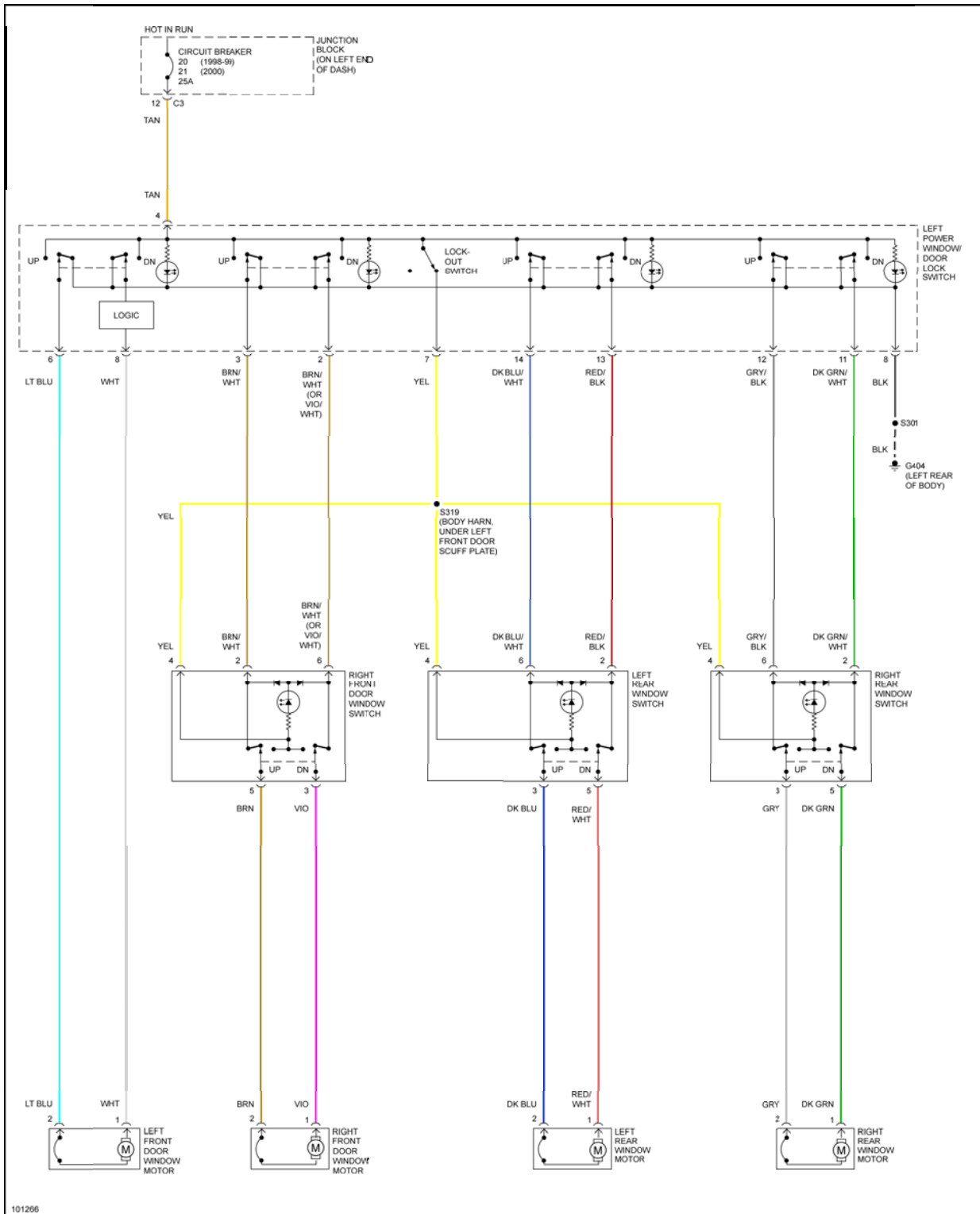


Fig. 6: Power Window System Wiring Diagram (Durango)