

POWER WINDOWS

Article Text

1993 Honda Prelude

For Cadi Centre Nsk CA 95051

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ARTICLE BEGINNING

1993 ACCESSORIES & EQUIPMENT

Honda Power Windows

Prelude

DESCRIPTION & OPERATION

A permanent magnet motor operates each of the power windows. The driver's master switch assembly controls all of the power window motors. The passenger's window switch controls only the passenger's power window motor. If the main switch is in OFF position, only driver's window may be operated. Passenger's window cannot be controlled by passenger's window switch, but can still be controlled from driver's master switch.

Power windows may be operated for about 10 minutes after ignition switch is turned from the "II" (ON) position to the "I" (ACCESSORY) or "0" (OFF/LOCK) positions. Time delay function is operative as long as neither front door has been opened.

AUTO mode permits driver's window to be fully lowered or raised without holding switch until window has reached the end of its travel. Moving switch past its first stop will engage AUTO mode. AUTO mode is controlled by a pulser integrated in driver's window motor assembly. Pulser cannot be serviced separately.

Power window control unit is integrated in power window master control switch. Control unit is not serviced separately.

TROUBLE SHOOTING

WARNING: All models are equipped with Supplemental Restraint System (SRS). SRS wiring harness is routed close to instrument cluster, steering wheel, and related components. All SRS wiring harnesses are covered by Yellow outer insulation. DO NOT use electrical test equipment on these circuits. Before working on steering column components, disable air bag system. See AIR BAG RESTRAINT SYSTEM article in the ACCESSORIES/SAFETY EQUIPMENT section.

NOTE: Ensure all component terminals and ground connections are clean and tight. Check possible faults in order listed. Repair or replace components and circuits as necessary.

All Windows Inoperative

Blown fuse No. 37 in dash fuse box. Power window relay. Key-off timer circuit in integrated control unit. Open in Green/Black wire.

Driver's Window inoperative

Blown fuse No. 15 in dash fuse box. Faulty driver's window motor. Faulty window regulator. Master switch input. Open in White/Black wire.

Driver' Window Inoperative In AUTO

Faulty master switch. Faulty pulser (in driver's window motor). Master switch input. Open in Blue wire.

Passenger's Window Inoperative

Blown fuse No. 16 in dash fuse box. Faulty power window master switch. Faulty passenger's switch. Faulty passenger's window motor. Faulty window regulator. Open in Blue/Black wire.

All Windows Inoperative Within 10 Minutes Of Ignition Switch Turned Off

Blown fuse No. 37 in dash fuse box. Faulty door switches. Faulty key-off timer circuit in integrated control unit.

TESTING

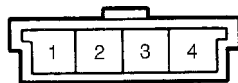
MOTOR TEST

Driver's Window Motor Test

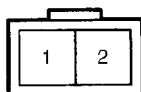
Remove door panel. Unplug 4-pin connector from motor. Using jumper wires, connect terminals No. 3 and 4 to battery voltage and ground. See Fig. 1. Check for motor operation. Reverse jumper wires and retest. Replace motor if it does not operation in both directions.

Passenger's Window Motor Test

Remove door panel. Unplug 2-pin connector from motor. Using jumper wires, connect connector terminals to battery voltage and ground. See Fig. 1. Check for motor operation. Reverse jumper wires and retest. Replace motor if it does not operation in both directions.



MASTER SWITCH



PASSENGER'S SWITCH

93DR2514

Fig. 1: Power Window Motor Connector Terminal ID
Courtesy of American Honda Motor Co., Inc.

PULSER TEST (DRIVER'S WINDOW MOTOR)

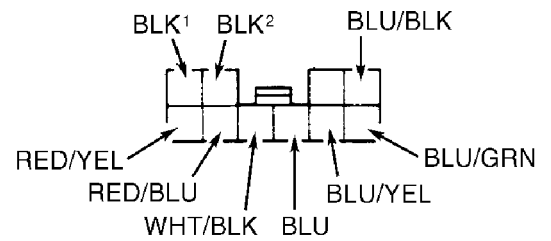
NOTE: Pulser is integral part of driver's window motor assembly. If pulser is defective, motor assembly must be replaced.

Connect test leads of analog ohmmeter to motor connector terminals No. 1 and 2. Using jumper wires, connect terminals No. 3 and 4 to battery voltage and ground. See Fig. 1. If ohmmeter needle does not alternately move back and forth while motor is operating, replace motor.

SWITCH INPUTS TEST

NOTE: Some wires have been assigned a superscript to distinguish them from other wires of the same color. For example, the Yellow/Green(1) wire is not the same as the Yellow/Green (2) wire.

Turn ignition off. Remove driver's door panel. Unplug connectors from master switch. Using a DVOM, perform appropriate switch input tests in Fig. 2. If all input test results are okay, inspect connector and terminals for damage and proper fit. If connector is okay and power windows still malfunction, replace master switch.



NOTE: Numbers 1 through 5 refer to test number, not terminal numbers.

VIEW FROM WIRE SIDE

POWER WIN

No.	Terminal	Test condition	Test: Desired result	Possible cause if result is not obtained
1	BLK¹	Under all conditions.	Check for continuity to ground: There should be continuity.	<ul style="list-style-type: none"> • Poor ground • An open in the wire.
2	WHT/BLK BLU/BLK	Ignition switch ON.	Check for voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 15 or 16 (20 A) fuse. (In the under-dash fuse/relay box) • Faulty power window relay. • An open in the wire.
3	RED/BLU and RED/YEL	Connect the WHT/BLK terminal to the RED/BLU terminal, and the RED/YEL terminal to the BLK¹ terminal, then turn the ignition switch ON.	Check the driver's window motor: It should run.	<ul style="list-style-type: none"> • Faulty driver's window motor. • An open in the wire.
4	BLU/YEL and BLU/GRN	Connect the BLU/BLK terminal to the BLU/GRN terminal, and the BLU/YEL terminal to the BLK terminal, then turn the ignition switch ON.	Check the passenger's window motor: It should run.	<ul style="list-style-type: none"> • Faulty passenger's window motor. • Faulty passenger's window switch. • An open in the wire.
5	BLU and BLK²	Connect the WHT/BLK terminal to the RED/YEL terminal, and the BLK² terminal to the RED/BLU terminal, then turn the ignition switch ON.	Connect an analog ohmmeter to the BLU and BLK² terminals: The meter needle should move back and forth as the driver's window motor runs.	<ul style="list-style-type: none"> • Faulty pulser. • Faulty driver's window motor. • An open in the wire.

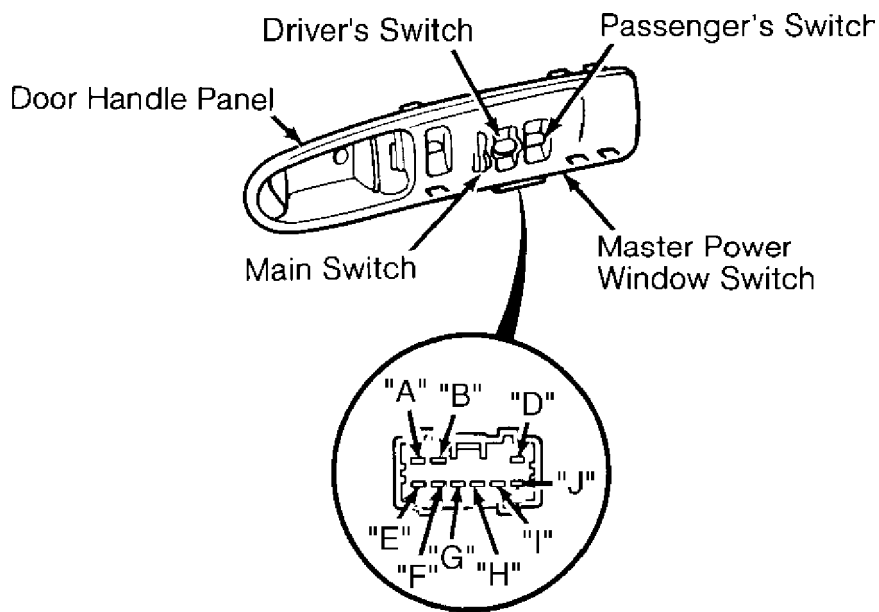
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Fig. 2: Switch Input Test (Prelude)
Courtesy of American Honda Motor Co., Inc.

SWITCH TEST

MASTER SWITCH TEST

Remove power window master switch. See MASTER POWER WINDOW SWITCH under REMOVAL & INSTALLATION. Using an ohmmeter, check resistance of switch terminals with switch in indicated positions. If continuity is not as specified, replace switch. See Fig. 3. See POWER WINDOW MASTER SWITCH CONTINUITY TEST table.



93E82507

Fig. 3: Power Window Switch Terminal ID
Courtesy of American Honda Motor Co., Inc.

POWER WINDOW MASTER SWITCH CONTINUITY TEST TABLE

AA

Position	Main Switch	Pin Continuity
Driver' Switch		
Off	(1)	"B", "E" & "F"
Up	(1)	"F" & "G"
Down	(1)	"E" & "G"
Down (AUTO)	(1)	"E" & "G"
Passenger's Switch		
Off	On	"A", "I" & "J"
	Off	"I" & "J"
Up	On	"D" & "I"; "A" & "J"
	Off	"D" & "I"
Down	On	"A" & "I"; "D" & "J"
	Off	"D" & "J"

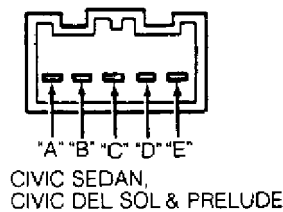
(1) - Main switch position does not affect driver's switch operation.

AA

PASSENGER'S WINDOW SWITCH TEST

Remove power window switch. See PASSENGER'S POWER WINDOW SWITCH under REMOVAL & INSTALLATION. Using an ohmmeter, check power window switch terminals with switch in indicated positions. If continuity is not as specified, replace switch. See Fig. 4. See POWER

WINDOW PASSENGER'S SWITCH CONTINUITY TEST table.



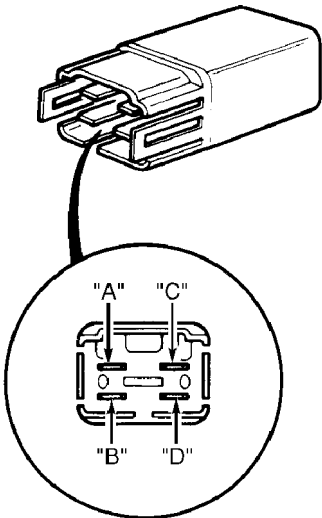
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Fig. 4: Power Window Passenger's Switch Terminal ID (Typical)
Courtesy of American Honda Motor Co., Inc.

POWER WINDOW PASSENGER'S SWITCH CONTINUITY TEST TABLE	
AA	
Switch Position	Continuity
Off	"B" & "C"; "D" & "E"
Up	"A" & "D"
Down	"A" & "B"
AA	

POWER WINDOW RELAY TEST

Remove power window relay from underhood fuse/relay box.
Using jumper wires, connect terminals "C" and "D" to battery voltage and ground. See Fig. 5. If continuity does not exist between terminals "A" and "B", replace relay.



93E82515

Fig. 5: Power Window Relay Terminal ID
Courtesy of American Honda Motor Co., Inc.

REMOVAL & INSTALLATION

WINDOW MOTOR

Removal and installation procedures are not available from manufacturer.

POWER WINDOW SWITCH

Removal & Installation

Remove switch mounting screw. Disconnect wiring harness connector and remove switch assembly. To install, reverse removal procedure.

WIRING DIAGRAMS

For circuit information, see appropriate wiring diagram in the WIRING DIAGRAMS section.

END OF ARTICLE