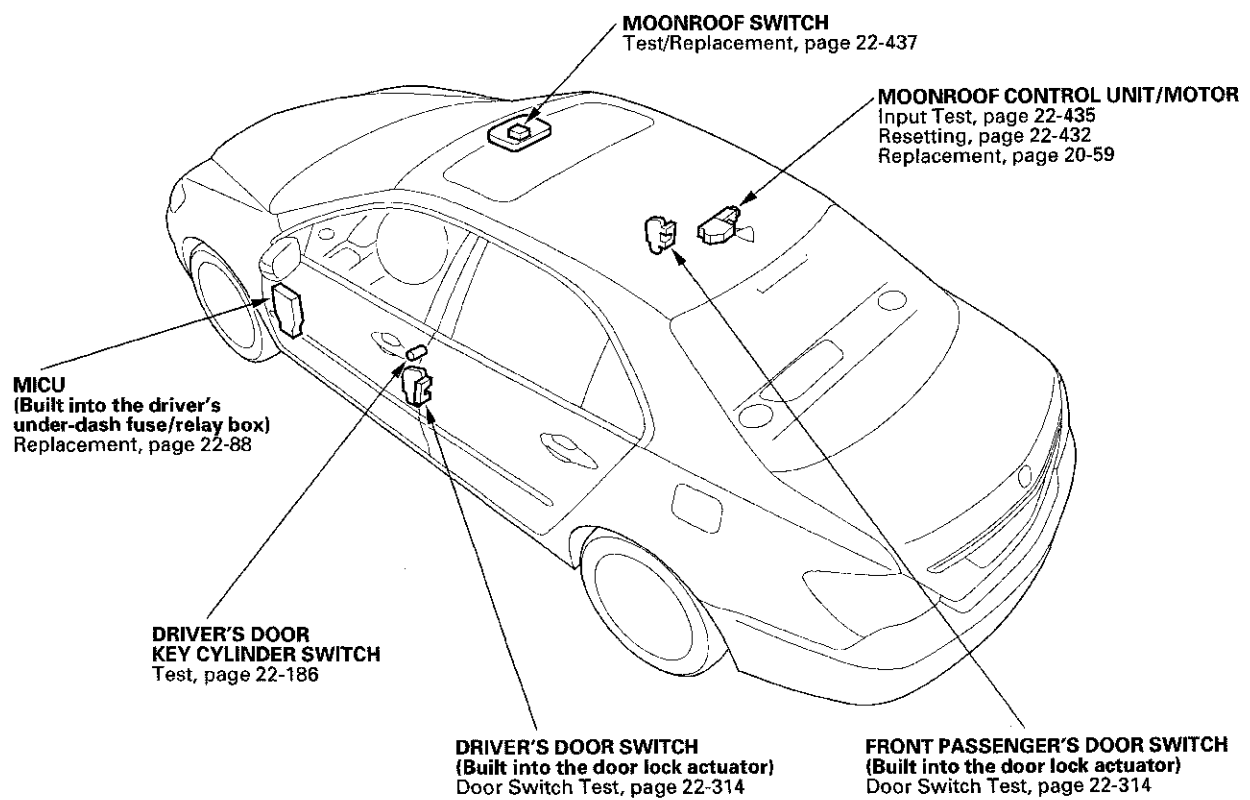


Moonroof

Component Location Index





Symptom Troubleshooting Index

Symptom	Diagnostic procedure
Water leaks from moonroof	1. Check for a clogged or detached drain tube. 2. Check for a gap between the glass weatherstrip and the roof panel (see page 20-55). 3. Check for a defective or an improperly installed glass weatherstrip or drain channel. 4. Check for a gap between the drain seal and the roof panel.
Wind noise from moonroof	1. Check for excessive clearance between the glass weatherstrip and the roof panel. 2. Check the glass position adjustment (see page 20-55).
Motor noise from moonroof	1. Check for a loose motor. 2. Check for a worn gear or bearing. 3. Check for a deformed cable assembly. 4. Check for dirt or debris.
Moonroof glass does not move, but motor turns	1. Check for a defective gear or inner cable. 2. Check for foreign matter stuck between the guide rail and the slider. 3. Check for a loose inner cable. 4. Make sure the cable assembly is attached properly.
Moonroof glass does not move and motor does not turn (glass can be moved with 5 mm hex wrench)	1. Check for a blown fuse. 2. Check for a faulty moonroof switch. 3. Check for a run down battery. 4. Check for a defective motor control unit.
Moonroof glass does not stop at proper flush closed position	1. Reset the moonroof control unit (see page 22-432). 2. Check glass position adjustment (see page 20-55).
Moonroof glass moves in a jerking motion (moves 40 mm (1.57 in), stops for 0.4 seconds, and repeats)	Reset the moonroof control unit (see page 22-432).
During auto close operation, moonroof glass reverses when no object is trapped	1. Check for dirt and debris in the track. 2. Reset the moonroof control unit (see page 22-432).
Moonroof glass moves, but there is no AUTO function	Reset the moonroof control unit (see page 22-432).

Moonroof

Resetting the Moonroof Control Unit

Reset the moonroof after doing any of the following actions:

- The moonroof was moved manually while the battery was dead or disconnected.
- The moonroof motor was replaced with a new one.
- Any components related to the moonroof were replaced or removed and reinstalled.
 - Wind deflector
 - Moonroof glass
 - Moonroof seal
 - Moonroof glass bracket
 - Moonroof cables, etc.

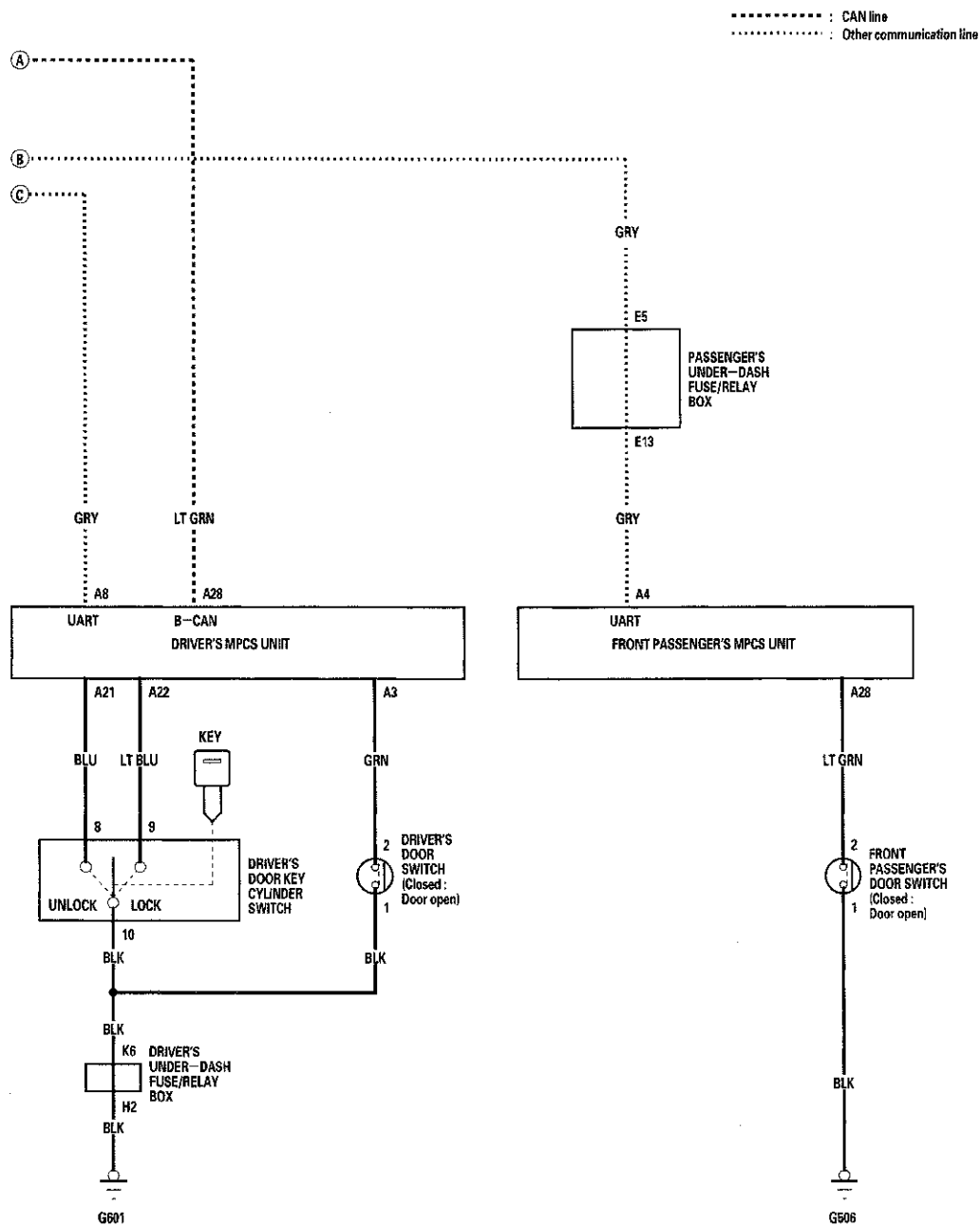
To reset the moonroof control unit, do these steps:

1. Close all doors, and leave them closed until the procedure is complete.
2. Turn the ignition switch to LOCK (0).
3. Press and hold the tilt switch, and turn the ignition switch to ON (II).
4. Release the tilt switch.
5. Repeat steps 2 to 4 four times.
6. Check if the AUTO OPEN and AUTO CLOSE functions still work. If they still work, the AUTO functions have not been cleared, go back to step 1. If the AUTO functions have been cleared, go to step 7.
7. Press and hold the moonroof open switch for 3 additional seconds after the moonroof is fully opened.
8. Press and hold the moonroof close switch for 3 additional seconds after the moonroof is fully closed (tilted).
9. Confirm that the moonroof control unit is reset by using the moonroof AUTO OPEN and AUTO CLOSE function.



Moonroof

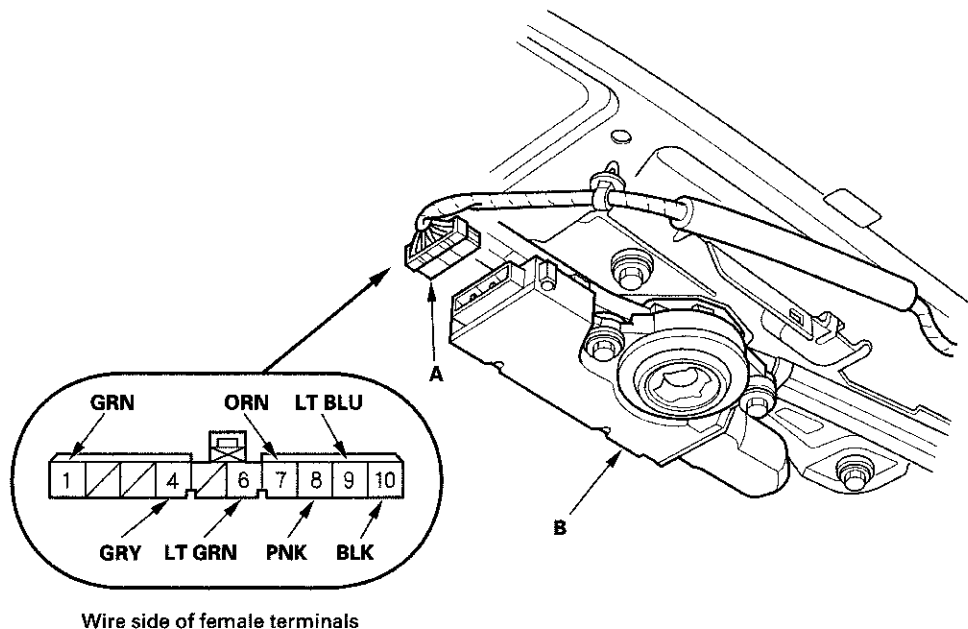
Circuit Diagram (cont'd)



Moonroof Control Unit Input Test

NOTE: If the moonroof works OK manually, but does not work in AUTO, or reverses frequently (pinch detection), reset the moonroof control unit (see page 22-432) before proceeding with the input test.

1. Turn the ignition switch to LOCK (0).
2. Remove the headliner (see page 20-86).
3. Disconnect the 10P connector (A) from the moonroof control unit (B).



4. Inspect the connector and socket terminals to be sure they are all making good contact.
 - If the terminals are bent, loose or corroded, repair them as necessary, and recheck the system.
 - If the terminals look OK, go to step 5.

(cont'd)

Moonroof

Moonroof Control Unit Input Test (cont'd)

5. Reconnect the connector to the control unit, and do these input tests at the following connector.

- If any test indicates a problem, find and correct the cause, then recheck the system.
- If all the input tests prove OK, go to step 6.

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
10	BLK	Under all conditions	Measure the voltage to ground: There should be less than 0.2 V.	• Poor ground (G601) • An open in the wire
1	GRN	Under all conditions	Measure the voltage to ground: There should be battery voltage.	• Blown No. 28 (20 A) fuse in the driver's under-dash fuse/relay box • An open in the wire
6	LT GRN	Moonroof switch in OPEN (AUTO) or CLOSE (AUTO) position	Measure the voltage to ground: There should be battery voltage.	• Blown No. 15 (40 A) fuse in the under-hood fuse/relay box • Blown No. 7 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty moonroof switch • Faulty roof console • An open in the wire
7	ORN	Moonroof switch in TILT position	Measure the voltage to ground: There should be battery voltage.	• Blown No. 15 (40 A) fuse in the under-hood fuse/relay box • Blown No. 7 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty moonroof switch • Faulty roof console • An open in the wire
8	PNK	Moonroof switch in CLOSE position	Measure the voltage to ground: There should be battery voltage.	• Blown No. 15 (40 A) fuse in the under-hood fuse/relay box • Blown No. 7 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty moonroof switch • Faulty roof console • An open in the wire
9	LT BLU	Moonroof switch in OPEN position	Measure the voltage to ground: There should be battery voltage.	• Blown No. 15 (40 A) fuse in the under-hood fuse/relay box • Blown No. 7 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty moonroof switch • Faulty roof console • An open in the wire

6. Disconnect the 10P connector from the control unit, and do these input tests at the following connector.

- If any test indicates a problem, find and correct the cause, then recheck the system.
- If all the input tests prove OK, go to step 7.

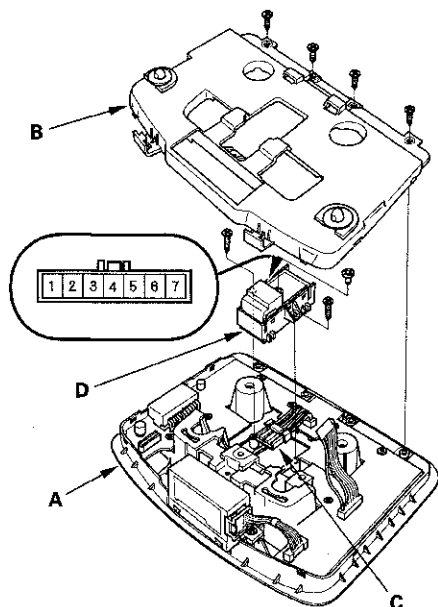
Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
4	GRY	Under all conditions	Check for continuity between the terminal No. 4 and driver's MPCs unit connector A (40P) terminal No. 8: There should be continuity.	An open in the wire
		Under all conditions	Check for continuity between the terminal No. 4 and front passenger's MPCs unit connector A (28P) terminal No. 4: There should be continuity.	An open in the wire

7. If all the input tests are OK and multiple failures are found, replace the moonroof motor assembly. If the problem is related to the key-off operation, go to the driver's MPCs unit input test (see page 22-178), and front passenger's MPCs unit input test (see page 22-180).



Moonroof Switch Test/Replacement

1. Remove the roof console (see page 22-307).
2. Remove the HomeLink unit from the top of the roof console (see page 22-307).
3. Remove the four screws from the roof console (A), and remove the rear cover (B).



4. Disconnect the 7P connector (C) from the moonroof switch (D), then remove the two screws and switch.

5. Check for continuity between the terminals in each switch position according to the table.

Terminal Position	1	2	3	6	7	4	5
OPEN							
CLOSE							
TILT							
CLOSE+AUTO							
OPEN+AUTO							

6. If the continuity is not as specified, replace the illumination bulb or the switch.
7. If the switch is OK, but there is a malfunction related to the moonroof switch operation, replace the roof console (see page 22-307).
8. Install the parts in the reverse order of removal.