

2005-08 ACCESSORIES AND EQUIPMENT

Keyless/Power Door Locks/Security System - RL

COMPONENT LOCATION INDEX

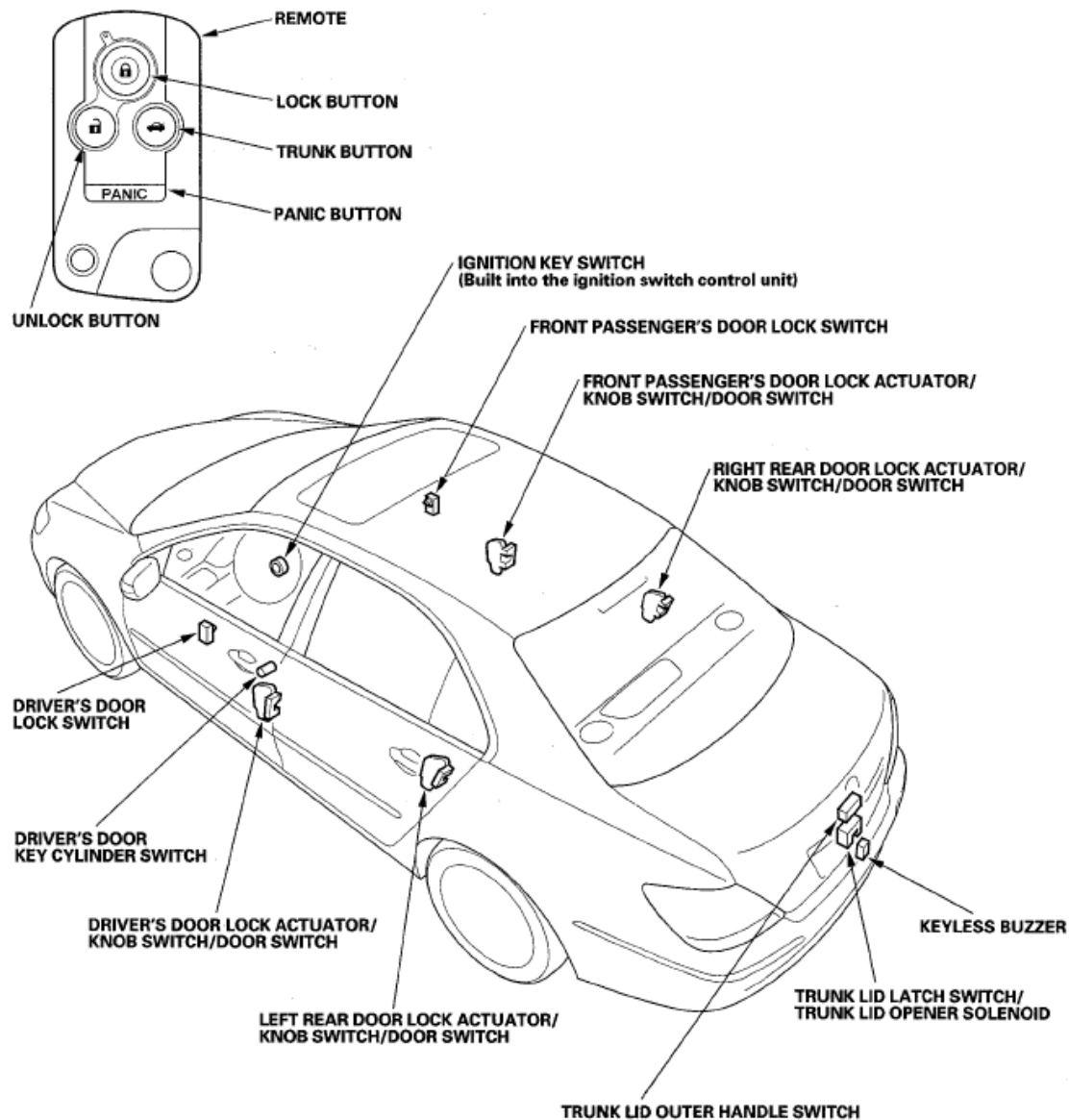


Fig. 1: Identifying Keyless/Power Door Locks/Security System Component Location (1 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

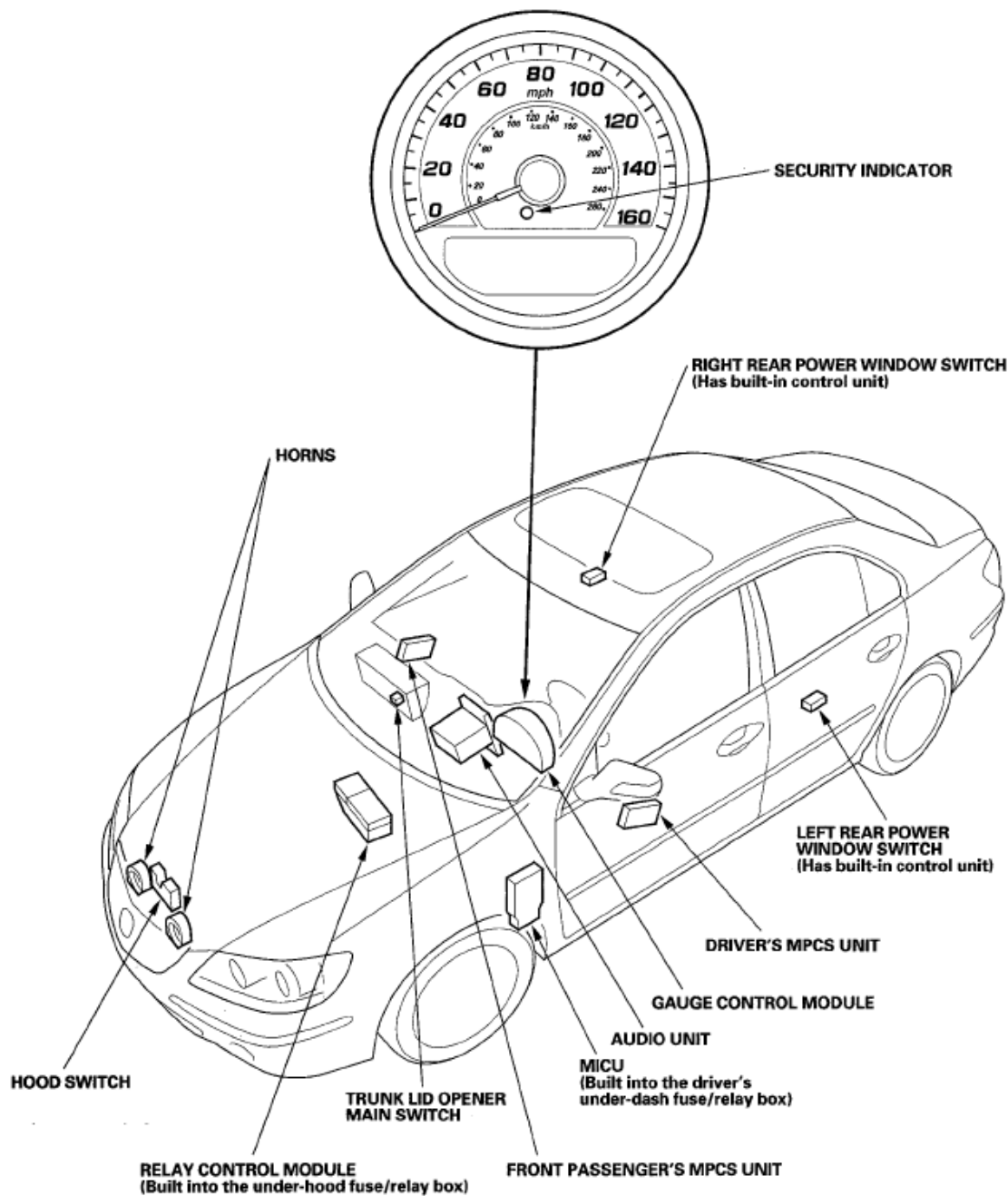


Fig. 2: Identifying Keyless/Power Door Locks/Security System Component Location (2 Of 2)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

SYSTEM DESCRIPTION

SECURITY ALARM SYSTEM

The security alarm system is integrated with the multiplex integrated control system, and arms automatically after the doors, hood, and trunk lid are closed and locked. For the system to arm, the ignition switch must be off, the key must be removed, and the MICU must receive signals that the doors, hood, and trunk lid are closed and locked. The alarm can be disarmed at any time by unlocking the driver's door with the key or pressing the UNLOCK button on the remote.

When everything is closed and locked, the only inputs that are grounded, and have 0 V, are the driver's door lock knob switch (LOCK position), and the audio unit. In other words, all of the other switches are open, and have about 0.8 V in sleep mode or 5 V or more in awake mode, including the key cylinder switches. The security indicator in the gauge control module begins to flash immediately after the doors, hood, and trunk lid are closed and locked, and shortly later, the security system arms and the security indicator flashes on for a shorter amount of time than before. If the security indicator does not flash, the system is not arming. If the vehicle is completely closed and locked, a beep sounds and parking lights flash to confirm the security alarm system is armed if the LOCK button is pressed a second time within 5 seconds, and the keyless lock acknowledgment is turned on.

If one of the switches is misadjusted or shorted internally (0 V), or there is a short in the circuit (0 V), the security system will not arm. A switch that is slightly misadjusted can cause the alarm to sound for no apparent reason. In this case, a significant change in outside air temperature, the vibration of a passing vehicle, or something bumping into the vehicle could cause the alarm to sound. There is no glass breakage or motion detector feature.

If anything is opened or improperly unlocked after the system is armed, the control unit receives a ground signal from that switch, the 0.8-5.0 V reference drops to 0 V, and the system sounds the alarm. If the audio unit is disconnected, the input loses its ground, and the input voltage goes to 0.8-5.0 V, and the system sounds the alarm. The system sounds the alarm when any of following occur while the security system is armed:

- A door or the trunk lid is forced open
- A door is unlocked without using the built-in key or the remote
- The hood is opened
- The audio unit is disconnected
- The remote panic is operated
- The ignition switch is turned ON (II)

When the system sounds the alarm, the horns sound and the exterior lights flash for 2 minutes. The alarm can be stopped at any time by unlocking the driver's door with the key or by pressing any button on the remote.

PANIC MODE

The panic mode sounds the alarm in order to attract attention. When the PANIC button on the remote is pressed and held for about 2 seconds, the alarm sounds and the exterior lights flash for about 20 seconds.

The panic mode can be cancelled at anytime by pressing any button on the remote or by turning the ignition switch ON (II). The panic mode will not function if the ignition switch is ON (II).

KEYLESS ENTRY SYSTEM

The keyless entry system is integrated with the multiplex integrated control system. Remotes 1 and 2 (Identified on the back of each remote) are linked to the DPMS, keyless access control unit, the climate control settings, the custom memory settings (in the MID), and the illumination settings. Depending on which remote unlocks the vehicle, these settings are chosen.

Some functions of the security, keyless entry, and power door locks can be customized using the MID

keyless memory setting. They include:

- **AUTO DOOR LOCK:** Door locking can be turned off, or turned on when shifting from Park or at a speed above 10 mph.
- **AUTO DOOR UNLOCK:** Door unlocking can be turned off, or turned on when shifting to Park or turning the ignition switch OFF.
- **WHENEVER UNLOCKING:** Door unlocking can be set to unlock all doors or only the driver's door on the first push.
- **KEYLESS DOOR LOCK ACKNOWLEDGMENT:** The beep and the front parking lights can be turned on or off when pressing the LOCK/UNLOCK button on the remote.
- **SECURITY RELOCK TIMER:** Select the time (30,60, or 90 sec.) that the doors relock if you unlock the doors with the remote, but do not open any of them.
- **HEADLIGHT AUTO OFF TIMER:** Select time (0,15,30, or 60 sec.) to turn the headlights off after removing the key from the ignition opening, then closing the driver's door.
- **AUTO LIGHT SENSITIVITY:** Automatic lighting sensor sensitivity can be adjusted five steps (MIN/LOW/MID/HIGH/ MAX).
- **INTERIOR LIGHT DIMMING TIMER:** Select the dimming time (15,30, or 60 sec.) of the interior lights after closing the door with the key removed from the ignition.

The remotes can be linked and unlinked to the keyless memory settings by pressing the LOCK and UNLOCK buttons at the same time for about 1 second. The LED on the remote blinks twice when linked, and once when unlinked.

The keyless entry system allows you to lock and unlock the vehicle with the remote. When you press the LOCK button, all the doors lock (unless any one of the doors is not fully closed or the key is in the ignition switch). When you press the UNLOCK button the first time, only the driver's door unlocks, if keyless memory setting "WHENEVER UNLOCKING" is set to Driver's Door. The other doors unlock when you press the UNLOCK button a second time. All the doors unlock when you press the UNLOCK button the first time if keyless memory setting "WHENEVER UNLOCKING" is set to All Doors.

NOTE: The doors will not lock with the remote if a door is not fully closed, or if the remote's built-in key is in the ignition switch.

If the UNLOCK button is pressed, released, then pressed and held, the power windows and the moonroof begin to open. The windows and the moonroof stop if the button is released. The windows and moonroof cannot be closed with the remote. See power windows for more information and troubleshooting.

When the interior lights switch is in the "DOOR" position, the individual map lights will come on when the UNLOCK button is pressed. If a door is not opened, the lights will go off in about 30,60, or 90 seconds (depending on the keyless memory setting "SECURITY RELOCK TIMER"), and the doors will relock. If the doors are locked with the remote within 30 seconds, the lights will go off immediately.

POWER DOOR LOCK SYSTEM

The power door lock system locks and unlocks all four doors with the driver's or passenger's master door lock switch. The doors can be locked and unlocked using the remote's built-in key in the driver's door key cylinder switch. If the key is turned counterclockwise, all the doors lock. If the key is turned clockwise once, the driver's door unlocks, and when the key is released, then turned again, the other doors unlock.

The doors can also be locked by pushing down on the lock knob on the driver's door. Pulling up on the lock knob only unlocks the driver's door. The lock knobs on the other doors only lock and unlock that door.

If the remote's built-in key is in the ignition, and a door is open, the doors will not lock using the master door lock switches and the driver's MPCS will automatically unlock the doors if you push down on the driver's door lock knob.

CIRCUIT DIAGRAM

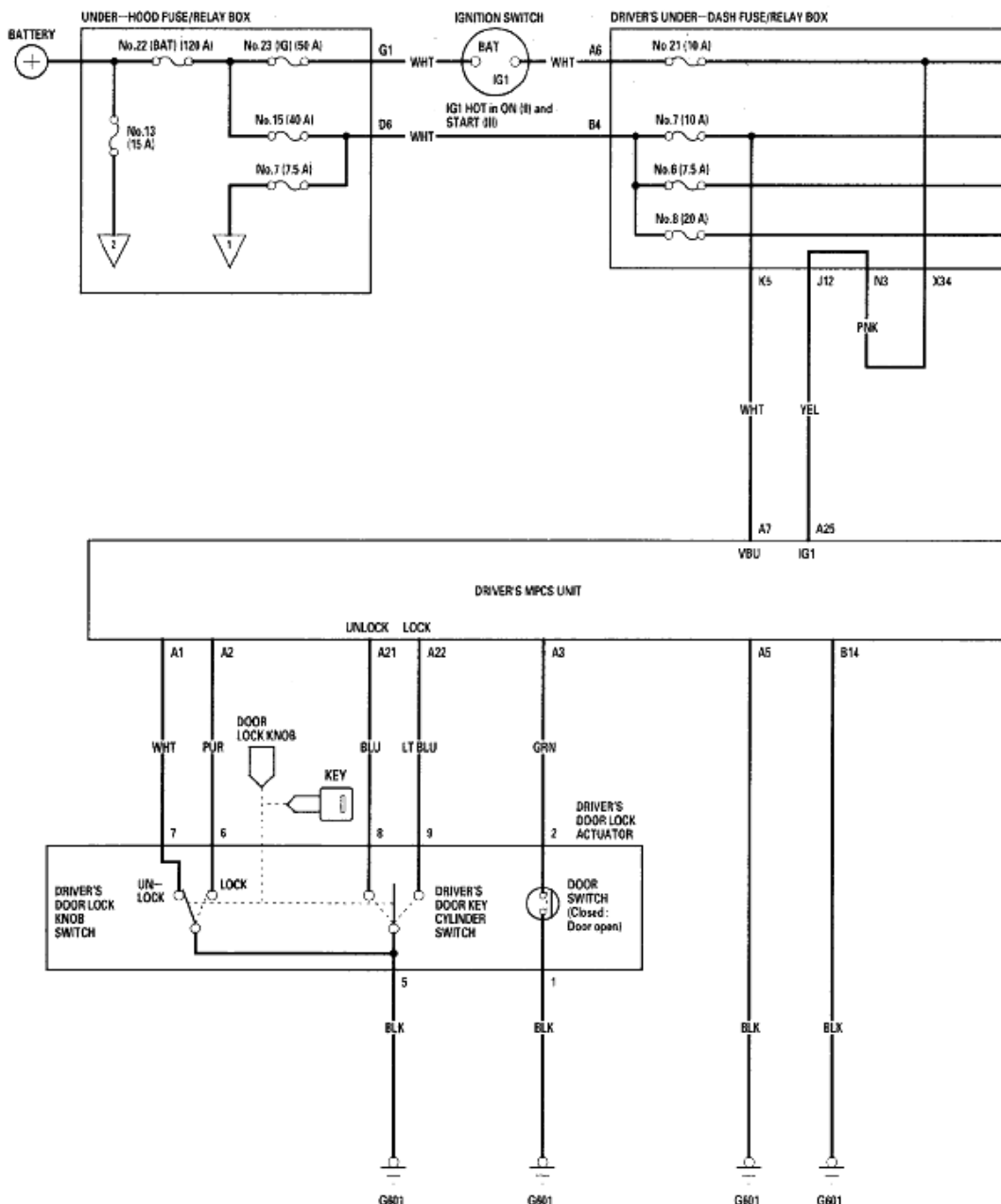


Fig. 3: Keyless/Power Door Locks/Security System - Circuit Diagram (1 Of 5)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

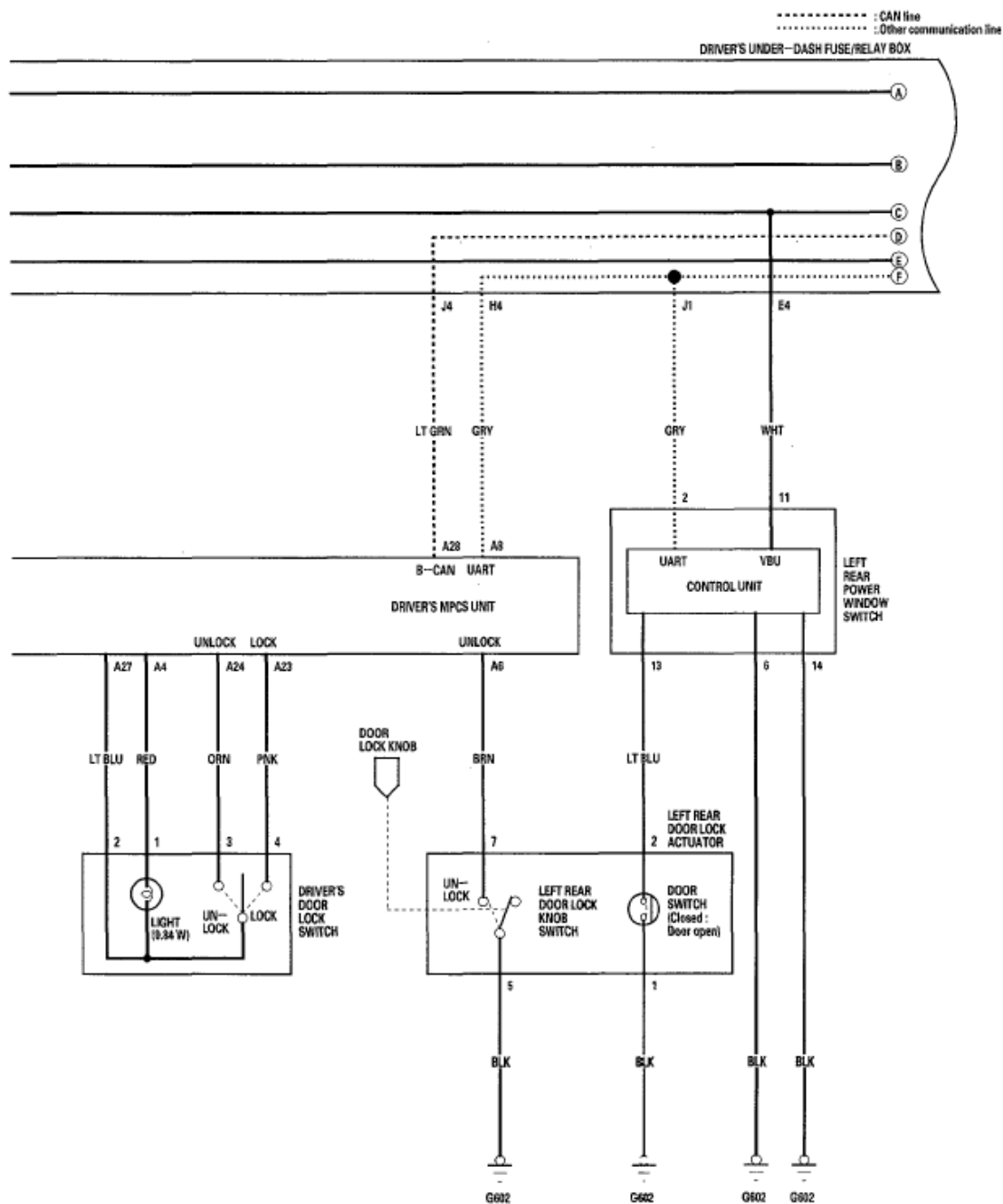


Fig. 4: Keyless/Power Door Locks/Security System - Circuit Diagram (2 Of 5)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

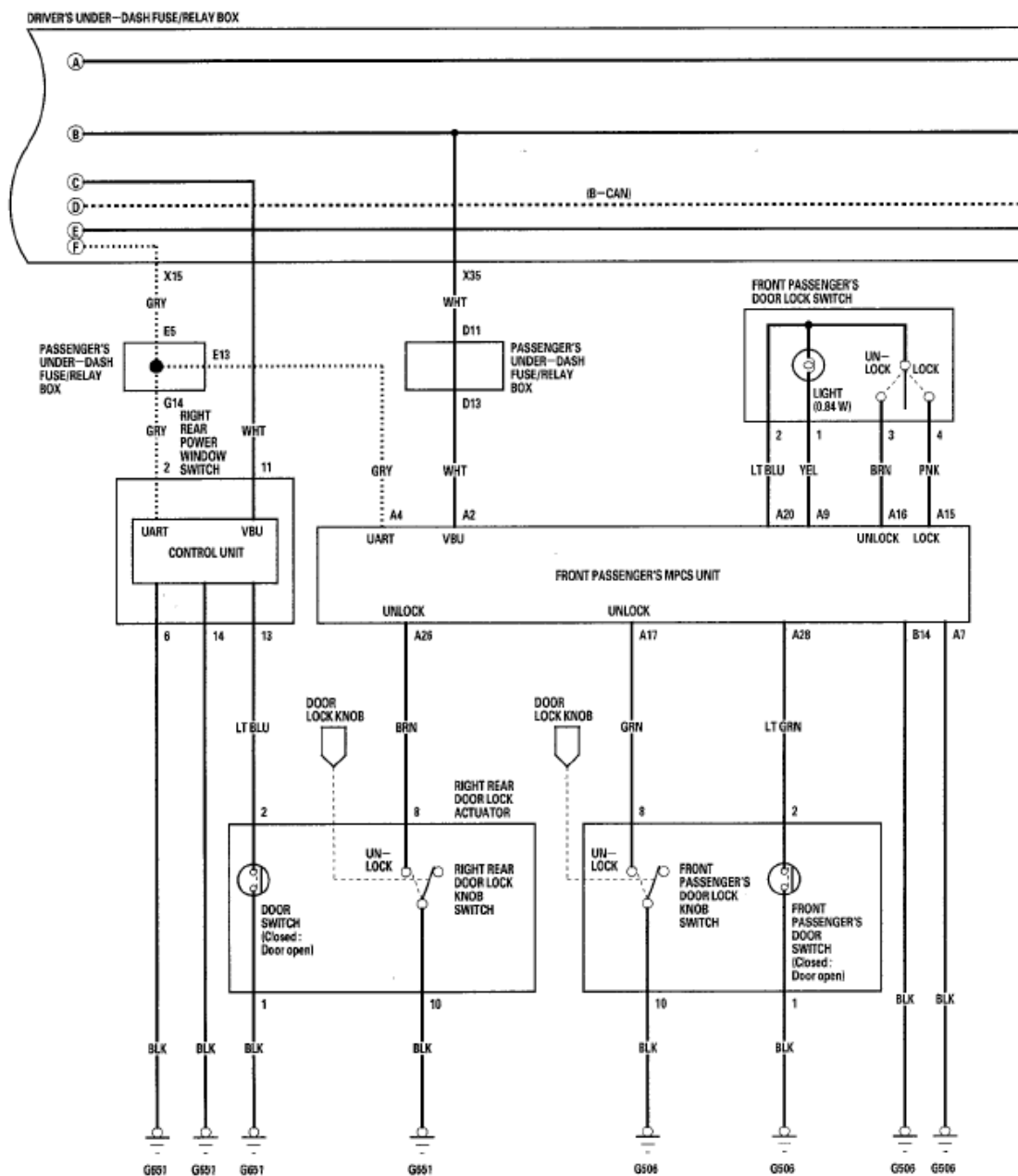


Fig. 5: Keyless/Power Door Locks/Security System - Circuit Diagram (3 Of 5)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

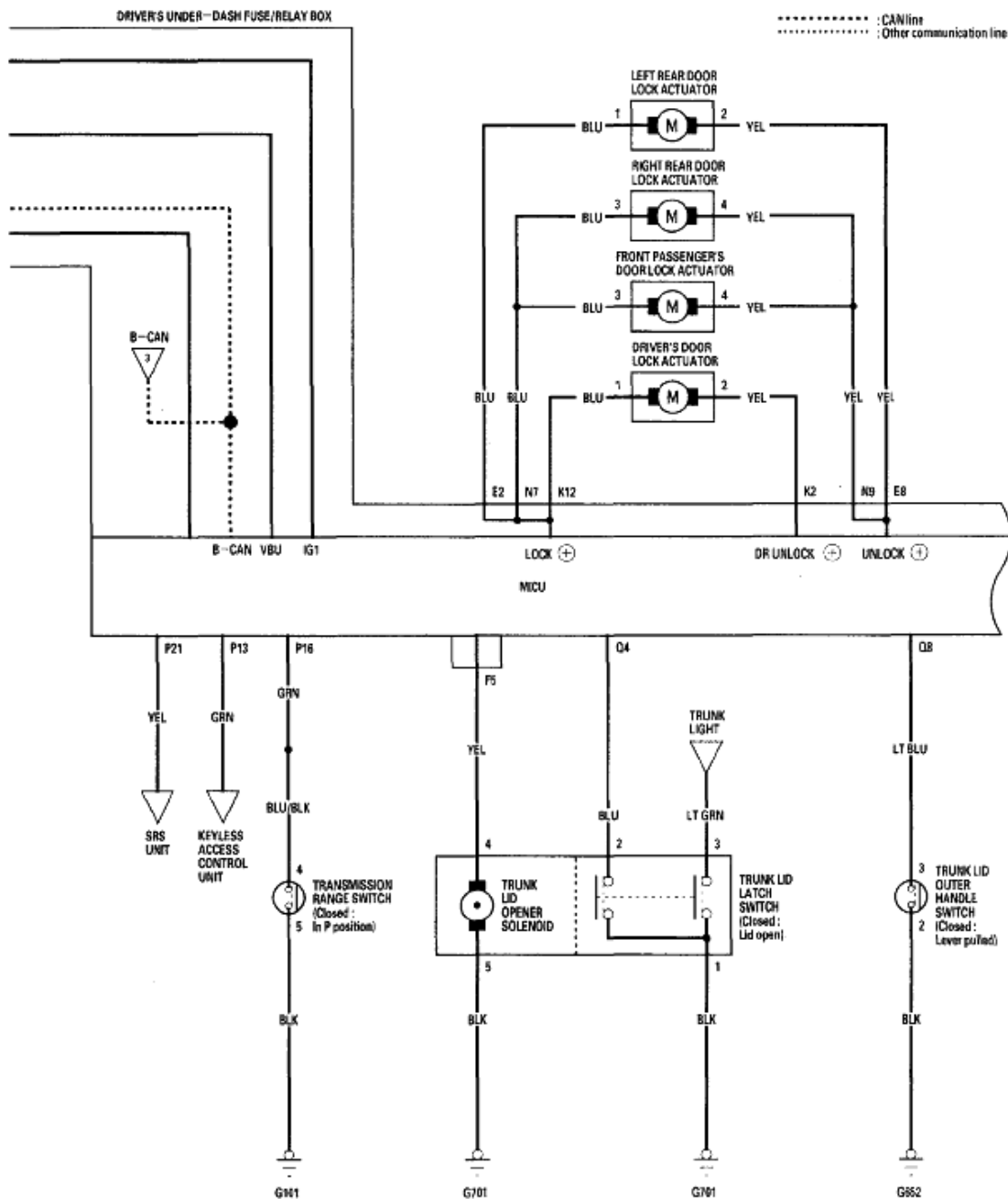


Fig. 6: Keyless/Power Door Locks/Security System - Circuit Diagram (4 Of 5)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

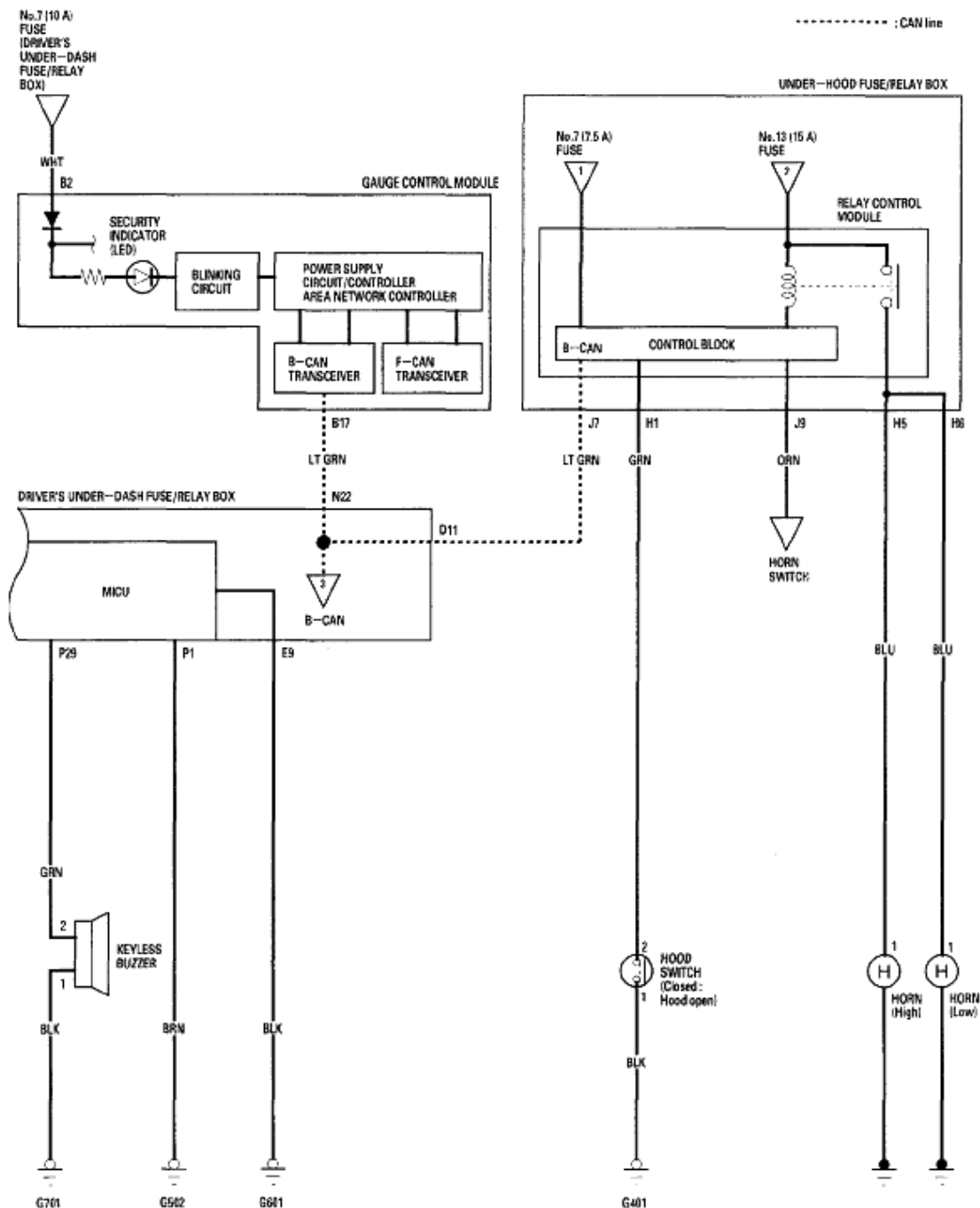


Fig. 7: Keyless/Power Door Locks/Security System - Circuit Diagram (5 Of 5)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

DTC TROUBLESHOOTING

DTC B2179: DRIVER'S DOOR KEY CYLINDER SWITCH LOCK/UNLOCK SIGNAL ERROR

NOTE:

If you are troubleshooting multiple DTCs, be sure to follow the instructions in B-CAN System Diagnosis Test Mode A (see [TROUBLESHOOTING - B-CAN SYSTEM DIAGNOSIS TEST MODE A](#)).

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

1. Clear the DTCs with the HDS.
2. Turn the ignition switch OFF, and then back ON (II).
3. Turn the driver's door key cylinder to the LOCK and UNLOCK positions with the ignition key.
4. Check for DTCs with the HDS.

Is DTC B2179 indicated?

YES - Go to step 5.

NO - Intermittent failure, the driver's door key cylinder switch system is OK at this time. Check for loose or poor connections.

5. With the driver's door key cylinder switch in neutral position, select DOOR LOCK from the BODY ELECTRICAL SYSTEM SELECT menu, and enter the DATA LIST.
6. Check the ON/OFF information of the Driver's Door Key Cylinder Switch (LOCK) and Driver's Door Key Cylinder Switch (UNLOCK) in the DATA LIST.

Are both information indicators OFF?

YES - Go to step 7.

NO - Go to step 8.

7. Turn the driver's door key cylinder to the LOCK and UNLOCK positions with the ignition key, and check the ON/OFF information of the Driver's Door Key Cylinder Switch (LOCK) and Driver's Door Key Cylinder Switch (UNLOCK) in the DATA LIST.

Are both Driver's Door Key Cylinder Switch (LOCK) and Driver's Door Key Cylinder Switch (UNLOCK) information indicators ON at the same time with the door key cylinder switch in the LOCK or UNLOCK position?

YES - Test the key cylinder switch (see **DOOR LOCK SWITCH TEST**). If it is OK, repair short between the wires.

NO - Replace the driver's MPCS unit.

8. Disconnect the driver's door lock actuator 10P connector.
9. Check the ON/OFF information of the Driver's Door Key Cylinder Switch (LOCK) and Driver's Door Key Cylinder Switch (UNLOCK) in the DATA LIST.

Are both information indicators OFF?

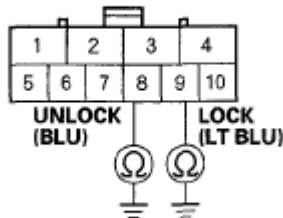
YES - Faulty driver's door key cylinder switch; replace the driver's door lock actuator assembly.

NO - Go to step 10.

10. Turn the ignition switch OFF.
11. Disconnect driver's MPCS unit connector A (40P).

12. Check for continuity between body ground and the driver's door lock actuator 10P connector terminals No. 8 and No. 9 individually.

**DRIVER'S DOOR LOCK ACTUATOR
10P CONNECTOR**



Wire side of female terminals

Fig. 8: Checking Continuity Between Body Ground And Driver's Door Lock Actuator Terminals No. 8 And No. 9

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair a short to ground in the wire.

NO - Replace the driver's MPCS unit.

DTC B2180: DRIVER'S DOOR LOCK SWITCH LOCK/UNLOCK SIGNAL ERROR

NOTE: If you are troubleshooting multiple DTCs, be sure to follow the instructions in B-CAN System Diagnosis Test Mode A (see TROUBLESHOOTING - B-CAN SYSTEM DIAGNOSIS TEST MODE A).

1. Clear the DTCs with the HDS.
2. Turn the ignition switch OFF, and then back ON (II).
3. Lock and unlock the driver's door with the driver's door lock switch.
4. Check for DTCs with the HDS.

Is DTC B2180 indicated?

YES - Go to step 5.

NO - Intermittent failure, the driver's door lock switch system is OK at this time. Check for loose or poor connections.

5. With the driver's door lock switch in the neutral position, select the DOOR LOCK from the BODY ELECTRICAL SYSTEM SELECT menu, and enter the DATA LIST.
6. Check the ON/OFF Information of the Driver's Door Lock Switch (LOCK) and Driver's Door Lock Switch (UNLOCK).

Are both information indicators OFF?

YES - Go to step 7.

NO - Go to step 8.

7. Operate the driver's door lock switch in the LOCK and UNLOCK positions, and check the ON/OFF information of the Driver's Door Lock Switch (LOCK) and Driver's Door LOCK Switch (UNLOCK).

Are both Driver's Door LOCK Switch (LOCK) and Driver's Door LOCK Switch (UNLOCK) information indicators ON at the same time when the door lock switch is in the LOCK or UNLOCK position?

YES - Repair short between the wires.

NO - Replace the driver's MPCS unit.

8. Disconnect the driver's door lock switch 4P connector.
9. Check the ON/OFF information of the Driver's Side Remote Door Lock Switch (LOCK) and Driver's Side Remote Door Lock Switch (UNLOCK).

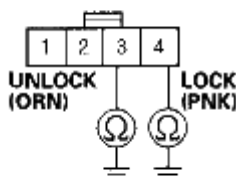
Are both information indicators OFF?

YES - Faulty driver's door lock switch; replace it.

NO - Go to step 10.

10. Turn the ignition switch OFF.
11. Disconnect driver's MPCS unit connector A (40P).
12. Check for continuity between body ground and the driver's door lock switch 4P connector terminals No. 3 and No. 4 individually.

**DRIVER'S DOOR LOCK SWITCH
4P CONNECTOR**



Wire side of female terminals

Fig. 9: Checking Continuity Between Body Ground And Driver's Door Lock Switch 4P Connector Terminals No. 3 And No. 4

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair a short to ground in the wire.

NO - Replace the driver's MPCS unit.

DTC B2181: DRIVER'S DOOR LOCK KNOB SWITCH LOCK/UNLOCK SIGNAL ERROR

NOTE: If you are troubleshooting multiple DTCs, be sure to follow the instructions in B-CAN System Diagnosis Test Mode A (see TROUBLESHOOTING - B-CAN SYSTEM DIAGNOSIS TEST MODE A).

1. Clear the DTCs with the HDS.
2. Turn the ignition switch OFF, and then back ON (II).
3. Lock and unlock the driver's door with the driver's door lock knob switch.
4. Check for DTCs with the HDS.

Is DTC B2181 indicated?

YES - Go to step 5.

NO - Intermittent failure, the driver's door lock knob switch system is OK at this time. Check for loose or poor connections.

5. Select DOOR LOCK from the BODY ELECTRICAL SYSTEM SELECT menu, and enter the DATA LIST.
6. Check the ON/OFF information of the Driver's Door Lock Knob Switch (LOCK) and Driver's Door Lock Knob Switch (UNLOCK) in the DATA LIST.

Does the Driver's Door Lock Knob Switch (LOCK) information indicate ON and Driver's Door Lock Knob Switch (UNLOCK) information indicate OFF with the door lock knob switch is in the LOCK position, and does the Driver's Door Lock Knob Switch (LOCK) information indicate OFF and Driver's Door Lock Knob Switch (UNLOCK) information indicate ON with the door lock knob switch is in the UNLOCK position?

YES - Replace the driver's MPCS unit.

NO - Go to step 7.

7. Disconnect the driver's door lock actuator 10P connector.
8. Check the ON/OFF information of the Driver's Door Knob Switch (LOCK) and Driver's Door Lock Knob Switch (UNLOCK) in the DATA LIST.

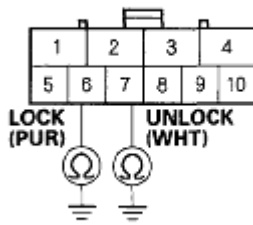
Are both information indicators OFF?

YES - Faulty driver's door lock knob switch; replace the driver's door lock actuator assembly.

NO - Go to step 9.

9. Turn the ignition switch OFF.
10. Disconnect driver's MPCS unit connector A (40P).
11. Check for continuity between body ground and the driver's door lock actuator 10P connector terminals No. 6 and No. 7 individually.

**DRIVER'S DOOR LOCK ACTUATOR
10P CONNECTOR**



Wire side of female terminals

Fig. 10: Checking Continuity Between Body Ground And Driver's Door Lock Actuator Terminals No. 6 And No. 7

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair a short to ground in the wire.

NO - Replace the driver's MPCS unit.

DTC B2186: FRONT PASSENGER'S DOOR LOCK SWITCH LOCK/UNLOCK SIGNAL ERROR

NOTE: If you are troubleshooting multiple DTCs, be sure to follow the instructions in B-CAN System Diagnosis Test Mode A (see TROUBLESHOOTING - B-CAN SYSTEM DIAGNOSIS TEST MODE A).

1. Clear the DTCs with the HDS.
2. Turn the ignition switch OFF, and then back ON (II).
3. Lock and unlock the front passenger's door with the front passenger's door lock switch operation.
4. Check for DTCs with the HDS.

Is DTC B2186 indicated?

YES - Go to step 5.

NO - Intermittent failure, the front passenger's door lock switch system is OK at this time. Check for loose or poor connections.

5. With the front passenger's door lock switch in the neutral position, select the DOOR LOCK from the BODY ELECTRICAL SYSTEM SELECT menu, and enter the DATA LIST.
6. Check the ON/OFF information of the Front Passenger's Door Lock Switch (LOCK) and Front Passenger's Door Lock Switch (UNLOCK).

Are both information indicators OFF?

YES - Go to step 7.

NO - Go to step 8.

7. Operate the front passenger's door lock switch in the LOCK and UNLOCK positions, and check the ON/OFF information of the Front Passenger's Door Lock Switch (LOCK) and Front Passenger's Door Lock Switch (UNLOCK).

Are both the Front Passenger's Door Lock Switch (LOCK) and Front passenger's Door Lock Switch (UNLOCK) information indicators ON at the same time when the door lock switch is in the LOCK or UNLOCK position?

YES - Repair short between the wires.

NO - Replace the front passenger's MPCS unit.

8. Disconnect the front passenger's door lock switch 4P connector.
9. Check the ON/OFF information of the Assistant Side Remote Door Lock Switch (LOCK) and Assistant Side Remote Door Lock Switch (UNLOCK).

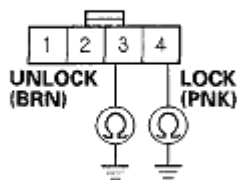
Are both information indicators OFF?

YES - Faulty front passenger's door lock switch; replace it.

NO - Go to step 10.

10. Turn the ignition switch OFF.
11. Disconnect front passenger's MPCS unit connector A(28P).
12. Check for continuity between body ground and the front passenger's door lock switch 4P connector terminals No. 3 and No. 4 individually.

**FRONT PASSENGER'S DOOR
LOCK SWITCH 4P CONNECTOR**



Wire side of female terminals

Fig. 11: Checking Continuity Between Body Ground And Front Passenger's Door Lock Switch Terminals No. 3 And No. 4

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair a short to ground in the wire.

NO - Replace the front passenger's MPCS unit.

CONTROL UNIT INPUT TEST

NOTE: Before testing, troubleshoot the multiplex integrated control system first using B-CAN System Diagnosis Test Mode A (see TROUBLESHOOTING - B-CAN SYSTEM DIAGNOSIS TEST MODE A).

MICU

1. Turn the ignition switch OFF.
2. Remove the left kick panel (see TRIM REMOVAL/INSTALLATION - DOOR AREAS).
3. Disconnect the driver's under-dash fuse/relay box connectors.

NOTE: All connector views are wire side of female terminals.

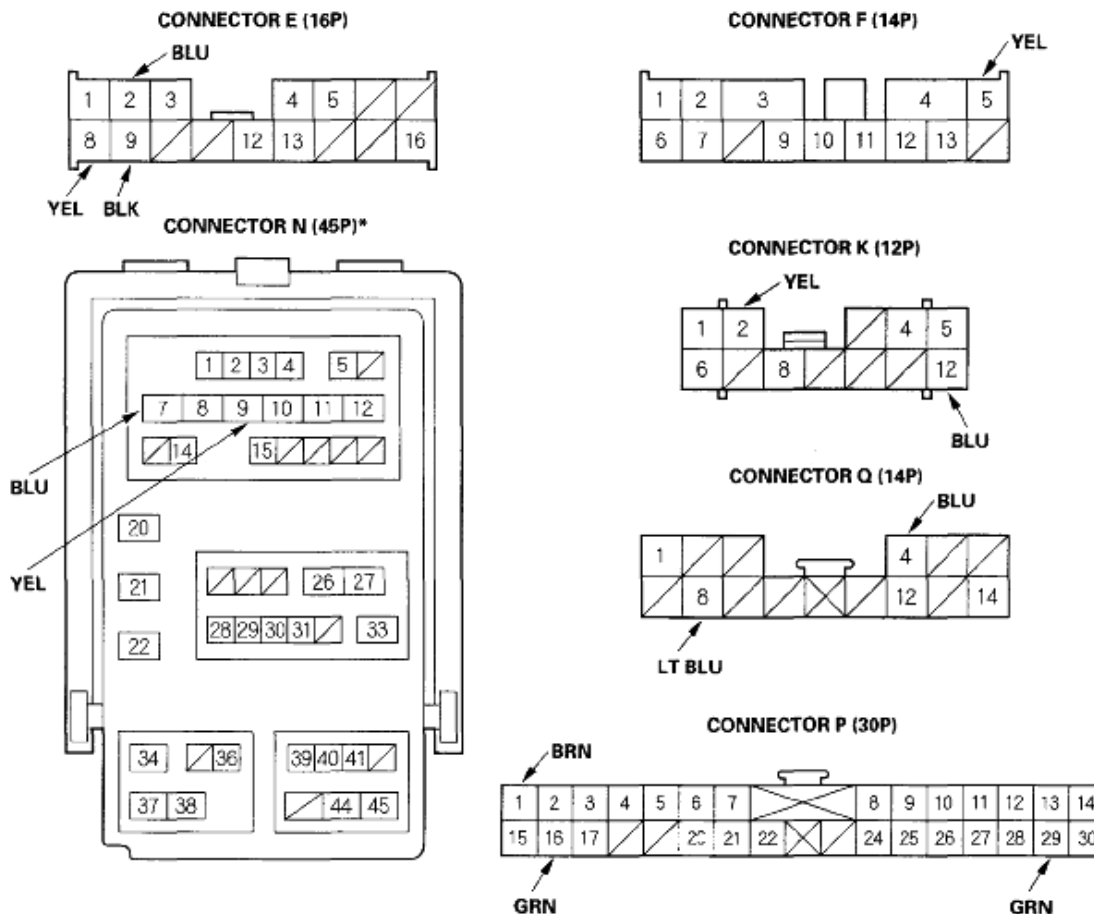


Fig. 12: Identifying Driver's Under-Dash Fuse/Relay Box Connectors Terminals
Courtesy of AMERICAN HONDA MOTOR CO., INC.

*Connector view shown rotated 180° from actual position in the under-dash fuse/relay box.

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.
5. With the connectors still disconnected, make these input tests at the connectors.
 - If any test indicates a problem, find and correct the cause, then recheck the system.

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

- If all the input tests prove OK, go to step 6.

WIRE CAVITY REFERENCE CHART

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
F5	YEL	Connect battery power to F5 terminal momentarily.	Check the trunk lid opener solenoid operation: The trunk lid should open.	<ul style="list-style-type: none"> • Faulty trunk lid opener solenoid • An open in the wire
P29	GRIM	Connect battery power to P29 terminal momentarily.	Check the keyless buzzer operation: The buzzer should sound.	<ul style="list-style-type: none"> • Faulty keyless buzzer • An open in the wire
K2	YEL	Connect battery power to K2 (K12) terminal, and K12 (K2) terminal to P1 terminal.	Check the door lock actuator operation. The driver's door lock actuator should UNLOCK (LOCK).	<ul style="list-style-type: none"> • Faulty driver's door lock actuator • An open in the wire
K12	BLU			
E2	BLU	Connect battery power to E2 (E8) terminal, and E8 (E2) terminal to P1 terminal.	Check the door lock actuator operation. The left rear door lock actuator should LOCK (UNLOCK).	<ul style="list-style-type: none"> • Faulty left rear door lock actuator • An open in the wire
E8	YEL			
N7	BLU	Connect battery power to N7 (N9) terminal, and N9 (N7) terminal to P1 terminal.	Check the door lock actuator operation. The front passenger's and right rear door lock actuators should LOCK (UNLOCK).	<ul style="list-style-type: none"> • Faulty front passenger's door lock actuator • Faulty right rear door lock actuator • An open in the wire
N9	YEL			

- Reconnect the connectors to the driver's under-dash fuse/relay box, turn the ignition switch ON (II), and make these input tests at the connectors.
 - 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.

WIRE CAVITY REFERENCE CHART

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
P1	BRN	Under all conditions	Measure the voltage to ground: There should be less than 0.5 V.	<ul style="list-style-type: none"> • Poor ground(G502) • An open in the wire
E9	BLK	Under all conditions	Measure the voltage to ground: There should be	<ul style="list-style-type: none"> • Poor ground (G601)

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

			less than 0.5 V.	<ul style="list-style-type: none"> • An open in the wire
P16	RN	Transmission range switch in P position.	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> • Poor ground(G101) • Faulty transmission range switch • An open in the wire
		Transmission range switch in any other position than P.	Measure the voltage to ground: There should be 5 V or more.	<ul style="list-style-type: none"> • Faulty transmission range switch • A short to ground in the wire
Q4	BLU	Trunk lid open NOTE: Trunk light bulb removed.	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> • Poor ground(G701) • Faulty trunk lid latch switch • An open in the wire
		Trunk lid closed NOTE: Trunk light bulb removed.	Measure the voltage to ground: There should be 5 V or more.	<ul style="list-style-type: none"> • Faulty trunk lid latch switch • A short to ground in the wire
Q8	LT BLU	Trunk lid outer handle pulled	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> • Poor ground(G701) • Faulty trunk lid outer handle switch • An open in the wire
		Trunk lid outer handle released	Measure the voltage to ground: There should be 5 V or more.	<ul style="list-style-type: none"> • Faulty trunk lid outer handle switch • A short to ground in the wire

Driver's MPCS Unit

7. Remove the driver's door panel (see **FRONT DOOR PANEL REMOVAL/INSTALLATION**).
8. Disconnect driver's MPCS unit connector A(40P) and B(14P).

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

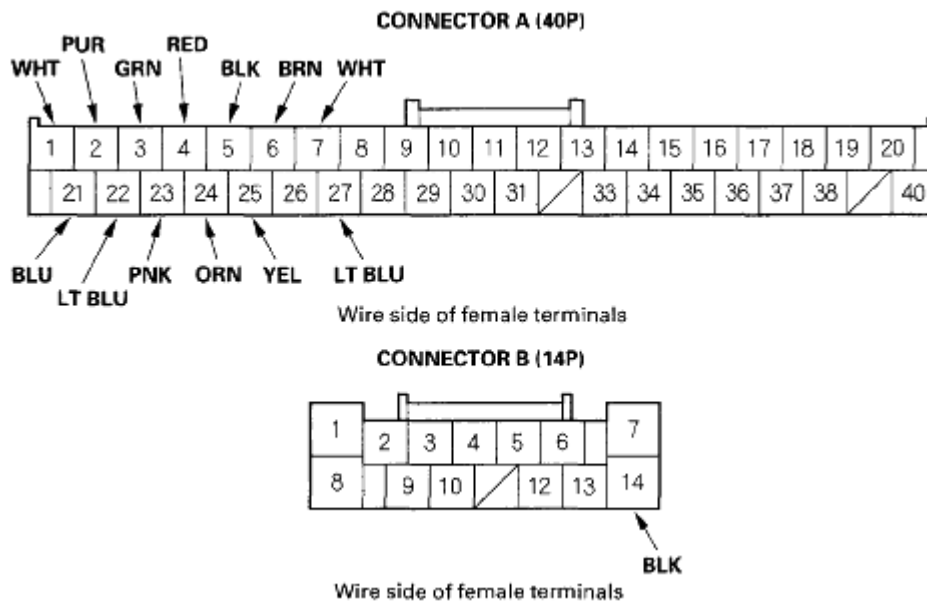


Fig. 13: Identifying Driver's MPCS Unit 40P And 14P Connector
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

9. 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 10.
10. With the connectors still disconnected, make these input tests at the connectors.
 - 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 11.

WIRE CAVITY REFERENCE CHART

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
A23	PNK	Driver's door lock switch in LOCK	Check for continuity between the terminals: There should be continuity.	<ul style="list-style-type: none"> Faulty driver's door lock switch An open in the wire
A27	LT BLU			
A23	PNK	Driver's door lock switch in neutral or UNLOCK	Check for continuity between the terminals: There should be no continuity.	<ul style="list-style-type: none"> Faulty driver's door lock switch A short to ground in the wire
A27	LT BLU			
A24	ORN	Driver's door lock switch in UNLOCK	Check for continuity between the terminals: There should be continuity.	<ul style="list-style-type: none"> Faulty driver's door lock switch An open in the wire
A27	LT BLU			
A24	ORN	Driver's door lock switch in neutral or LOCK	Check for continuity between the terminals: There should be no continuity.	<ul style="list-style-type: none"> Faulty driver's door lock switch A short to ground in the wire
A27	LT BLU			

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

A4	RED	Under all conditions	Check for continuity between the terminals: There should be continuity.	<ul style="list-style-type: none"> Faulty driver's door lock switch Blown bulb An open in the wire
A27	LT BLU			

11. Reconnect the connectors to the driver's MPCS unit, turn the ignition switch ON (II), and make these input tests at the connectors.

- 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 12.

WIRE CAVITY REFERENCE CHART

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
A5	BLK	Under all conditions	Measure the voltage to ground: There should be less than 0.5 V.	<ul style="list-style-type: none"> Poor ground (G601) An open in the wire
BH	BLK	Under all conditions	Measure the voltage to ground: There should be less than 0.5 V.	<ul style="list-style-type: none"> Poor ground (G601) An open in the wire
A7	WHT	Under all conditions	Measure the voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> Blown No. 15 (40A) fuse in the under-hood fuse/relay box Blown No. 7 (10A) fuse in the driver's under-dash fuse/relay box An open in the wire
A25	YEL	Ignition switch ON (II)	Measure the voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> Blown No. 21 (10A) fuse in the driver's under-dash fuse/relay box An open in the wire
A1	WHT	Driver's door lock knob switch in UNLOCK	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> Poor ground (G601) Faulty driver's door lock knob switch An open in the wire
		Driver's door lock knob switch in LOCK	Measure the voltage to ground: There should be about 5 V.	<ul style="list-style-type: none"> Faulty driver's door lock knob switch A short to around in the wire
A2	PUR	Driver's door lock knob switch in LOCK	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> Poor ground (G601) Faulty driver's door lock knob switch An open in the wire
		Driver's door lock knob switch in UNLOCK	Measure the voltage to ground: There should be	<ul style="list-style-type: none"> Faulty driver's door lock knob switch A short to ground in the wire

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

			about 5 V.	
A3	GRN	Driver's door open	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> • Poor ground (G601) • Faulty driver's door switch • An open in the wire
		Driver's door closed	Measure the voltage to ground: There should be about 5 V.	<ul style="list-style-type: none"> • Faulty driver's door switch • A short to ground in the wire
A6	BRN	Left rear door lock knob switch in UNLOCK	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> • Poor ground (G602) • Faulty left rear door switch • An open in the wire
		Left rear door lock knob switch in LOCK	Measure the voltage to ground: There should be about 5 V.	<ul style="list-style-type: none"> • Faulty left rear door switch • A short to around in the wire
A21	BLU	Driver's door key cylinder switch in UNLOCK	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> • Poor ground (G601) • Faulty driver's door key cylinder switch • An open in the wire
		Driver's door key cylinder switch in neutral	Measure the voltage to ground: There should be about 5 V.	<ul style="list-style-type: none"> • Faulty driver's door key cylinder switch • A short to ground in the wire
		Driver's door key cylinder switch in LOCK	Measure the voltage to ground: There should be about 5 V.	<ul style="list-style-type: none"> • Faulty driver's door key cylinder switch • A short to ground in the wire
A22	LT BLU	Driver's door key cylinder switch in LOCK	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> • Poor ground (G601) • Faulty driver's door key cylinder switch • An open in the wire
		Driver's door key cylinder switch in neutral	Measure the voltage to ground: There should be about 5 V.	<ul style="list-style-type: none"> • Faulty driver's door key cylinder switch • A short to ground in the wire
		Driver's door key cylinder switch in UNLOCK	Measure the voltage to ground: There should be about 5 V.	<ul style="list-style-type: none"> • Faulty driver's door key cylinder switch • A short to ground in the wire

Front Passenger's MPCS Unit

12. Turn the ignition switch OFF, and remove the front passenger's door panel (see **FRONT DOOR PANEL REMOVAL/INSTALLATION**).
13. Disconnect passenger's MPCS unit connectors A (28P) and B (14P).

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

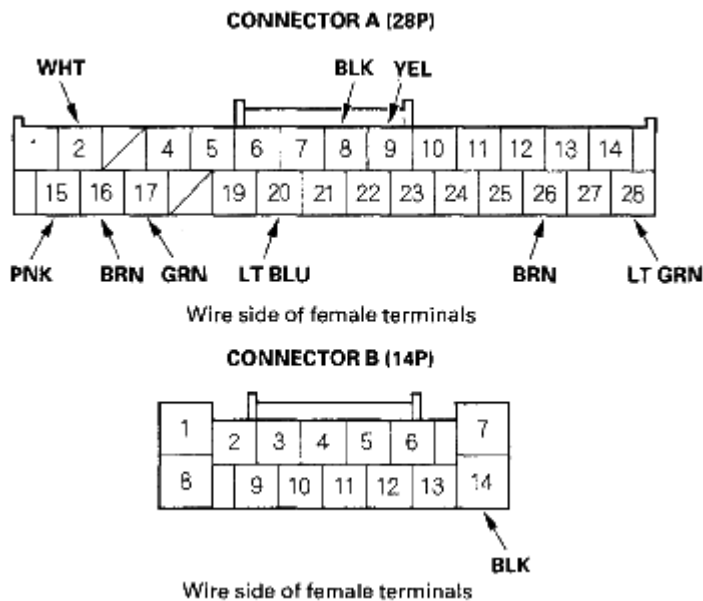


Fig. 14: Identifying Passenger's MPCS Unit 28P And 14P Connectors
Courtesy of AMERICAN HONDA MOTOR CO., INC.

14. 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 15.
15. With the connectors still disconnected, make these input tests at the connectors.
 - 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 16.

WIRE CAVITY REFERENCE CHART

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
A15	PNK	Front passenger's door lock switch in LOCK	Check for continuity between the terminals: There should be continuity.	<ul style="list-style-type: none"> • Faulty front passenger's door lock switch • An open in the wire
A20	LT BLU			
A15	PNK	Front passenger's door lock switch in neutral or UNLOCK	Check for continuity between the terminals: There should be no continuity.	<ul style="list-style-type: none"> • Faulty front passenger's door lock switch • A short to ground in the wire
A20	LT BLU			
A16	BRN	Front passenger's door lock switch in UNLOCK	Check for continuity between the terminals: There should be continuity.	<ul style="list-style-type: none"> • Faulty front passenger's door lock switch • An open in the wire
A20	LT BLU			
A16	BRN	Front passenger's door lock switch in neutral or LOCK	Check for continuity between the terminals: There should be no continuity.	<ul style="list-style-type: none"> • Faulty front passenger's door lock switch • A short to ground in the wire
A20	LT BLU			

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

A9	YEL	Under all conditions	Check for continuity between the terminals: There should be continuity.	<ul style="list-style-type: none"> Faulty front passenger's door lock switch Blown bulb An open in the wire
A20	LT BLU			

16. Reconnect the connectors to the front passenger's MPCS unit, and make these input tests at the connectors.

- 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 17.

WIRE CAVITY REFERENCE CHART

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
A7	BLK	Under all conditions	Measure the voltage to ground: There should be less than 0.5 V.	<ul style="list-style-type: none"> Poor ground (G601) An open in the wire
B14	BLK	Under all conditions	Measure the voltage to ground: There should be less than 0.5 V.	<ul style="list-style-type: none"> Poor ground (G601) An open in the wire
A2	WHT	Under all conditions	Measure the voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> Blown No. 15 (40A) fuse in the under-hood fuse/relay box Blown No. 7(10A) fuse in the driver's under-dash fuse/relay box An open in the wire
A17	GRN	Front passenger's door lock knob switch in UNLOCK	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> Poor ground(G506) Faulty front passenger's door lock knob switch An open in the wire
		Front passenger's door lock knob switch in LOCK	Measure the voltage to ground: There should be 5 V or more.	<ul style="list-style-type: none"> Faulty front passenger's door lock knob switch A short to ground in the wire
A26	BRN	Right rear door lock knob switch in LOCK	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> Poor ground(G651) Faulty right rear door lock knob switch ? An open in the wire
		Right rear door lock knob switch in UNLOCK	Measure the voltage to ground:	<ul style="list-style-type: none"> Faulty right rear door lock knob switch

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

			There should be 5 V or more.	<ul style="list-style-type: none"> • A short to ground in the wire
A28	LT GRN	Front passenger's door open	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> • Poor ground (G506) • Faulty front passenger's door switch • An open in the wire
		Front passenger's door closed	Measure the voltage to ground: There should be 5 V or more.	<ul style="list-style-type: none"> • Faulty front passenger's door switch • A short to ground in the wire

Left Rear Power Window Switch

- Turn the ignition switch OFF, and remove the left rear power window switch (see **POWER WINDOW MASTER SWITCH REPLACEMENT**).
- Disconnect the rear power window switch 14P connector.

**LEFT REAR POWER WINDOW SWITCH
14P CONNECTOR**

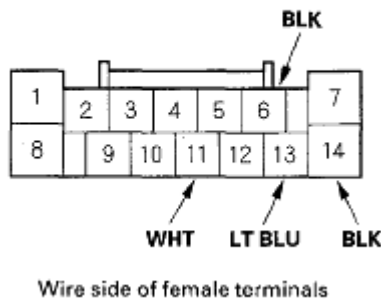


Fig. 15: Identifying Rear Power Window Switch 14P Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 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 20.
- Reconnect the connector to the switch, and make these input tests at the 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 21.

WIRE CAVITY REFERENCE CHART

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
6	BLK	Under all conditions	Measure the voltage to ground: There should be less than 0.5 V.	<ul style="list-style-type: none"> • Poor ground(G602) • An open in the wire
			Measure the voltage	

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

14	BLK	Under all conditions	to ground: There should be less than 0.5 V.	<ul style="list-style-type: none"> Poor ground (G602) An open in the wire
11	WHT	Under all conditions	Measure the voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> Blown No. 15 (40A) fuse in the under-hood fuse/relay box Blown No. 6 (7.5A) fuse in the driver's under-dash fuse/relay box An open in the wire
13	LT BLU	Left rear door open	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> Poor ground (G506) Faulty left rear door switch An open in the wire
		Left rear door closed	Measure the voltage to ground: There should be about 5 V.	<ul style="list-style-type: none"> Faulty left rear door switch A short to ground in the wire

Turn the ignition switch OFF, and right Rear Power Window Switch

21. Turn the ignition switch OFF, and remove the right rear power window switch (see **POWER WINDOW MASTER SWITCH REPLACEMENT**).
22. Disconnect the right rear power window switch 14P connector.

**RIGHT REAR POWER WINDOW SWITCH
14P CONNECTOR**

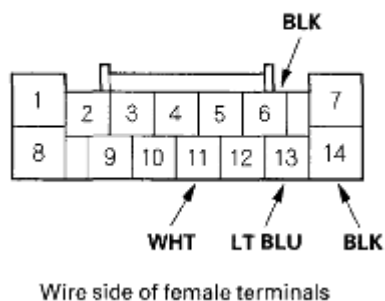


Fig. 16: Identifying Right Rear Power Window Switch 14P Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

23. Inspect the connector and socket terminals to be sure they 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 24.
24. Reconnect the connector to the switch, and make these input tests at the 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 25.

WIRE CAVITY REFERENCE CHART

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Keyless/Power Door Locks/Security System - RL

6	BLK	Under all conditions	Measure the voltage to ground: There should be less than 0.5 V.	<ul style="list-style-type: none">• Poor ground(G651)• An open in the wire
14	BLK	Under all conditions	Measure the voltage to ground: There should be less than 0.5 V.	<ul style="list-style-type: none">• Poor ground(G651)• An open in the wire
11	WHT	Under all conditions	Measure the voltage to ground: There should be battery voltage.	<ul style="list-style-type: none">• Blown No. 15 (40A) fuse in the under-hood fuse/relay box• Blown No. 6 (7.5A) fuse in the driver's under-dash fuse/relay box• An open in the wire
13	LT BLU	Right rear door open	Measure the voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none">• Poor ground (G506)• Faulty right rear door switch• An open in the wire
		Right rear door closed	Measure the voltage to ground: There should be about 5 V.	<ul style="list-style-type: none">• Faulty right rear door switch• A short to ground in the wire

25. If multiple failures are found on more than one control unit, replace the driver's under-dash fuse/relay box (includes the MICU). If input failures are related to a particular control unit, replace the control unit.

DOOR LOCK ACTUATOR TEST

DRIVER'S DOOR AND LEFT REAR DOOR

1. Remove the door panel (see **FRONT DOOR PANEL REMOVAL/INSTALLATION**).
2. Disconnect the 10P connector (A) from the actuator (B).

NOTE: The illustration shows the driver's door.

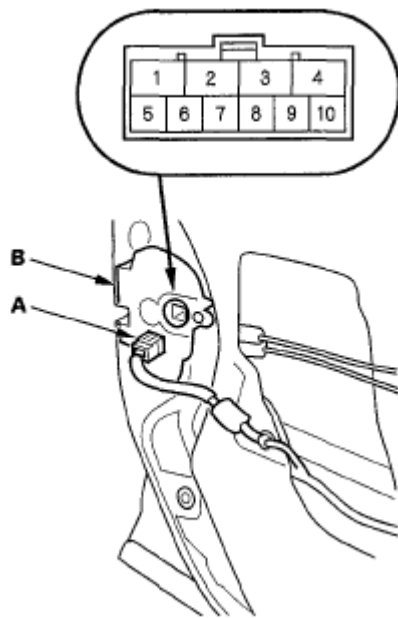


Fig. 17: Identifying Driver's Door And Left Rear Door 10P Connector
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Check actuator operation by connecting power and ground as shown (see **Fig. 18**). To prevent damage to the actuator, apply battery voltage only momentarily.

Terminal Position	1	2
LOCK	⊕	⊖
UNLOCK	⊖	⊕

Fig. 18: Checking Actuator Operation By Connecting Power And Ground
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. If the actuator does not operate as specified, replace it.

FRONT PASSENGER'S DOOR AND RIGHT REAR DOOR

1. Remove the door panel (see **FRONT DOOR PANEL REMOVAL/INSTALLATION**).
2. Disconnect the 10P connector (A) from the actuator (B).

NOTE: The illustration shows the front passenger's door.

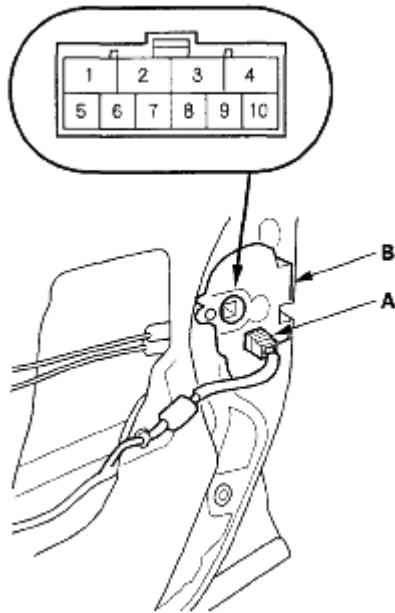


Fig. 19: Identifying Front Passenger's Door And Right Rear Door 10P Connector
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Check actuator operation by connecting power and ground according to the table. To prevent damage to the actuator, apply battery voltage only momentarily.

Terminal Position	3	4
LOCK	⊕	⊖
UNLOCK	⊖	⊕

Fig. 20: Terminals Voltage Chart
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. If the actuator does not operate as specified, replace it.

DOOR LOCK KNOB SWITCH TEST

DRIVER'S DOOR

1. Remove the driver's door panel (see **FRONT DOOR PANEL REMOVAL/INSTALLATION**).
2. Disconnect the 10P connector (A) from the actuator (B).

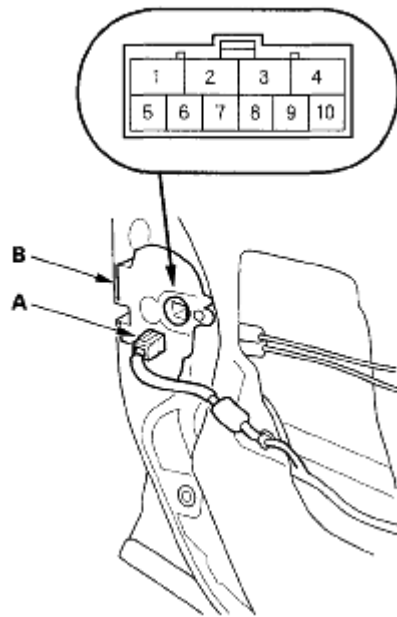


Fig. 21: Identifying Driver's Door Knob Switch 10P Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Check for continuity between the terminals.
 - There should be continuity between the No. 6 and No. 5 terminals when the door lock knob switch is in the LOCK position and no continuity when the switch is in the UNLOCK position.
 - There should be continuity between the No. 7 and No. 5 terminals when the door lock knob switch is in the UNLOCK position and no continuity when the switch is in the LOCK position.
4. If the continuity is not as specified, replace the door lock actuator.

PASSENGER'S DOORS

1. Remove the passenger's door panel (see **FRONT DOOR PANEL REMOVAL/INSTALLATION**).
2. Disconnect the 10P connector (A) from the actuator (B).

NOTE: **The illustration shows the front passenger's door.**

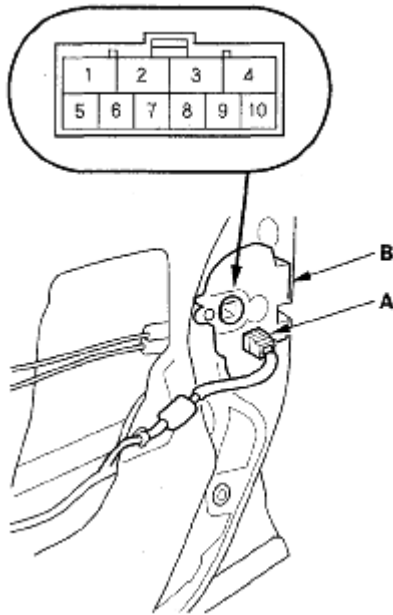


Fig. 22: Identifying Passenger's Door Knob Switch 10P Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Check for continuity between the terminals. There should be continuity between the No. 8 [No. 7] and No. 10 [No. 5] terminals when the door lock knob switch in the UNLOCK position and no continuity when the switch is in the LOCK position.

[] : Left rear door

4. If the continuity is not specified, replace the door lock actuator.

DOOR LOCK SWITCH TEST

1. Remove the door panel (see **FRONT DOOR PANEL REMOVAL/INSTALLATION**).
2. Disconnect the 4P connector (A), remove the two screws, then remove the door lock switch (B).

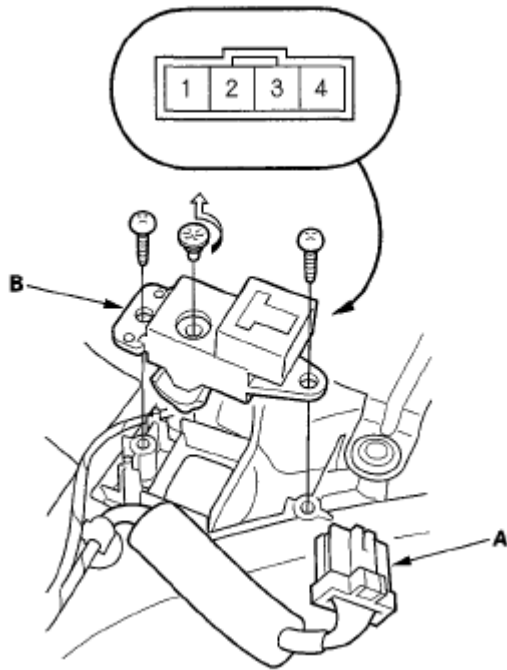


Fig. 23: Identifying Door Lock Switch And 4P Connector
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Check for continuity between the terminals.
 - There should be continuity between the No. 2 and No. 4 terminals when the door lock switch is in the LOCK position.
 - There should be no continuity between the No. 2 and No. 4 terminals when the door lock switch is in the neutral position or UNLOCK position.
 - There should be continuity between the No. 2 and No. 3 terminals when the door lock switch is in the UNLOCK position.
 - There should be no continuity between the No. 2 and No. 3 terminals when the door lock switch is in the neutral position or LOCK position.
 - There should be continuity between the No. 1 (+) and No. 2 (-) terminals (bulb check).
4. If the continuity is not as specified, replace the bulb or switch.

DOOR KEY CYLINDER SWITCH TEST

1. Remove the driver's door panel (see **FRONT DOOR PANEL REMOVAL/INSTALLATION**).
2. Disconnect the 10P connector (A) from the key cylinder switch (B).

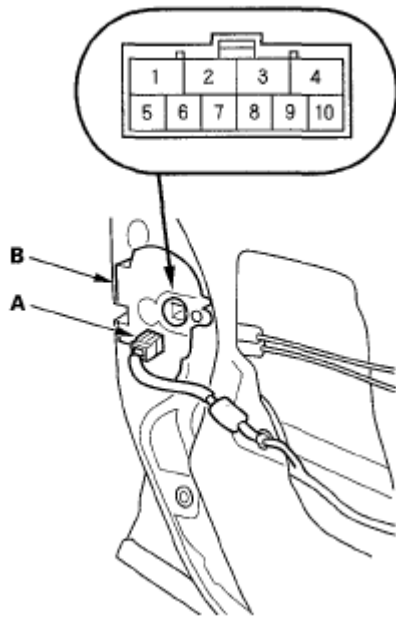


Fig. 24: Identifying Key Cylinder Switch And 10P Connector
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Check for continuity between the terminals.
 - There should be continuity between the No. 9 and No. 5 terminals when the door key cylinder switch is in LOCK position.
 - There should be no continuity between the No. 9 and No. 5 terminals when the door key cylinder switch is in the neutral or UNLOCK position.
 - There should be continuity between the No. 8 and No. 5 terminals when the door key cylinder switch is in UNLOCK position.
 - There should be no continuity between the No. 8 and No. 5 terminals when the door key cylinder switch is in the neutral or LOCK position.
4. If the continuity is not as specified, replace the door key cylinder assembly (see **FRONT DOOR OUTER HANDLE REPLACEMENT**).

HOOD SWITCH TEST

1. Open the hood.
2. Disconnect the 2P connector (A) from the hood switch (B).

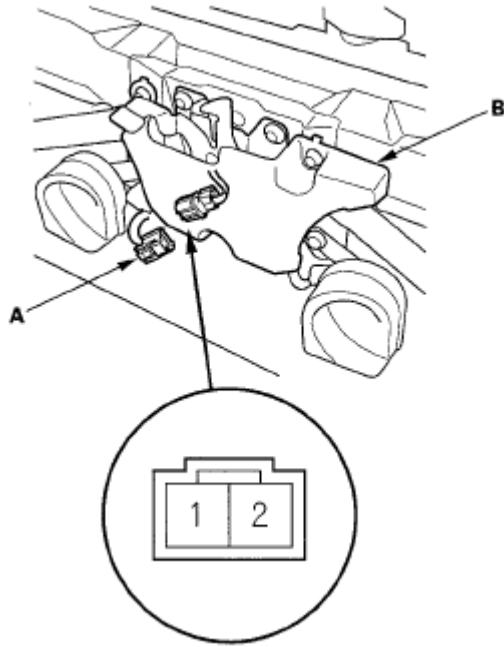


Fig. 25: Identifying Hood Switch 2P Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Check for continuity between the terminals. There should be continuity between the No. 1 and No. 2 terminals when the hood is opened (latch released). There should be no continuity between the No. 1 and No. 2 terminals when the hood is closed (latch pushed down).
4. If the continuity is not as specified, replace the hood switch.

REMOTE TEST

NOTE:

- If the doors unlock or lock with the remote, but the LED on the remote does not come on, the LED is faulty; replace the remote.
- If any door is open, you cannot lock the doors with the remote.
- If the UNLOCK button is pressed on the remote and a door is not opened within 30 seconds, the doors relock automatically.
- The doors do not lock or unlock with the remote if the key is in the ignition switch.
- Panic function will not operate if the ignition switch is ON (II).
- If the lock and unlock function works normally, but the driving position memory system (DPMS) is not linked, confirm the link is turned ON with the HDS, then check for problems in the DPMS (see SYSTEM INPUT TEST AND FUNCTION TEST) or B-CAN System Diagnosis Test Mode A (see TROUBLESHOOTING - B-CAN SYSTEM DIAGNOSIS TEST MODE A). Refer to SYSTEM DESCRIPTION for more information.

WITH HDS

Do a remote test using the HDS by selecting the KEYLESS INSPECTION MENU.

WITHOUT HDS

1. Open the remote and check for water damage.
 - If you find any water damage, replace the remote.
 - If there is no water damage, go to step 2.
2. Replace the remote batteries (A) with new ones, and try to lock and unlock the doors with the remote by pressing the lock or unlock button five or six times.
 - If the doors lock and unlock, the remote is OK.
 - If the doors don't lock and unlock, go to step 3.

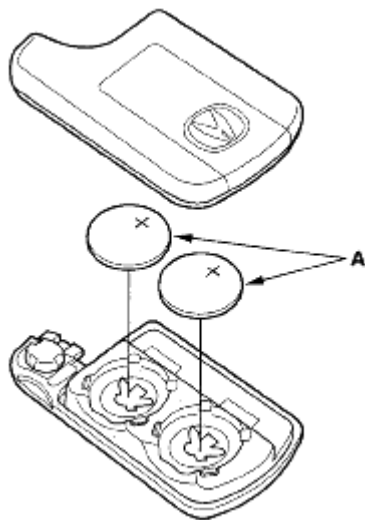


Fig. 26: Identifying Remote Batteries
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Reprogram the remote with the HDS, then try to lock and unlock the doors.
 - If the doors lock and unlock, the remote is OK.
 - If the doors don't lock and unlock, try and program to another vehicle.
 - If the remote programs to another vehicle, go to B-CAN System Diagnosis Test Mode A (see **TROUBLESHOOTING - B-CAN SYSTEM DIAGNOSIS TEST MODE A**).
 - If the remote will not program to another vehicle, replace it.