

2007 Acura RL

2007-08 ELECTRICAL Body Electrical - RL

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SPECIAL TOOLS

Ref. No.	Tool Number	Description	Qty
①	07LAJ-PT3020A	Test Harness	1
②	07TAZ-001020A	Back Probe Adaptor	1
③	07WAZ-001010A	MPCS (MCIC) Service Connector	1

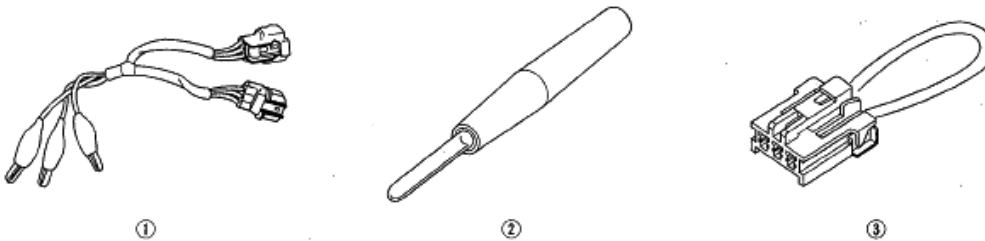


Fig. 1: Identifying Special Tools

Courtesy of AMERICAN HONDA MOTOR CO., INC.

GENERAL TROUBLESHOOTING INFORMATION

TIPS AND PRECAUTIONS

Before Troubleshooting

1. Check applicable fuses in the appropriate fuse/relay box.
2. Check the battery for damage, state of charge, and clean and tight connections.

NOTE:

- Do not quick-charge a battery unless the battery ground cable has been disconnected, otherwise you will damage the alternator diodes.
- Do not attempt to crank the engine with the battery ground cable loosely connected or you will severely damage the wiring.

Handling Connectors

- Make sure the connectors are clean and have no loose wire terminals.
- Make sure multiple cavity connectors are packed with dielectric grease (except watertight connectors).
- All connectors have push-down release type locks (A).

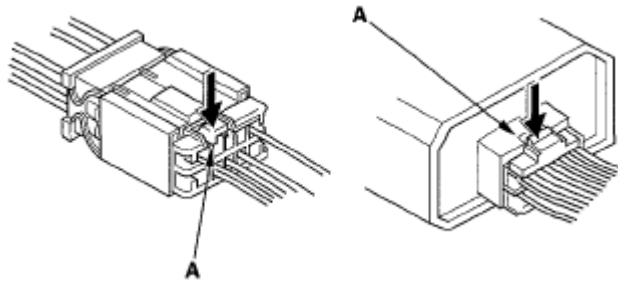


Fig. 2: Identifying Push-Down Release Type Locks
Courtesy of AMERICAN HONDA MOTOR CO., INC.

- Some connectors have a clip on their side used to attach them to a mount bracket on the body or on another component. This clip has a pull type lock.
- Some mounted connectors cannot be disconnected unless you first release the lock and remove the connector from its mount bracket (A).

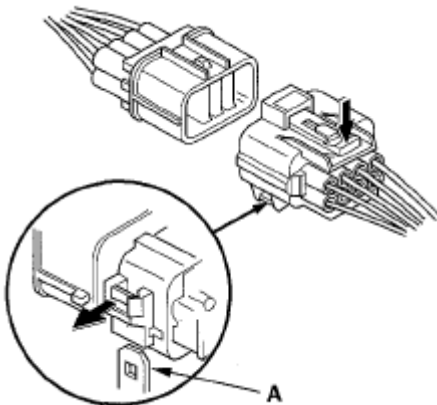


Fig. 3: Identifying Connector Mount Bracket
Courtesy of AMERICAN HONDA MOTOR CO., INC.

- Never try to disconnect connectors by pulling on their wires; pull on the connector halves instead.
- Always reinstall plastic covers.

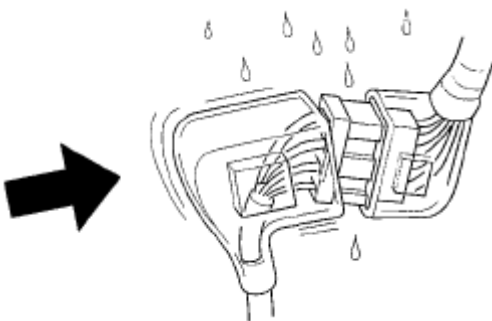


Fig. 4: Precaution For - Always Reinstall Plastic Covers
Courtesy of AMERICAN HONDA MOTOR CO., INC.

- Before connecting connectors, make sure the terminals (A) are in place and not bent.

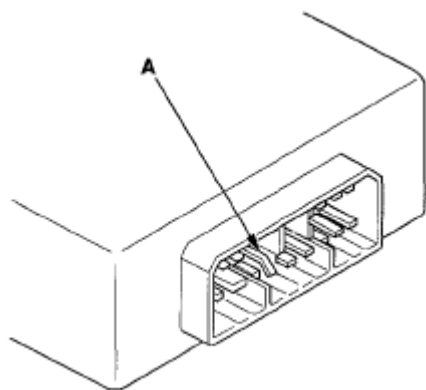


Fig. 5: Identifying Band Terminals

Courtesy of AMERICAN HONDA MOTOR CO., INC.

- Check for loose retainer (A) and rubber seals (B).

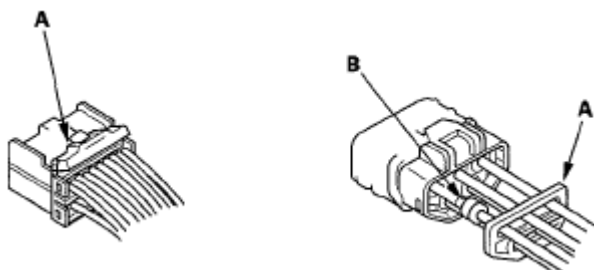


Fig. 6: Identifying Rubber Seals And Retainers

Courtesy of AMERICAN HONDA MOTOR CO., INC.

- The backs of some connectors are packed with dielectric grease. Add grease if necessary. If the grease is contaminated, replace it.

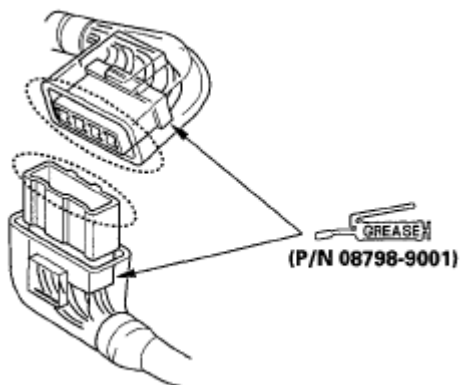


Fig. 7: Identifying Grease Applying Area

Courtesy of AMERICAN HONDA MOTOR CO., INC.

- Insert the connector all the way and make sure it is securely locked.
- Position wires so that the open end of the cover faces down.

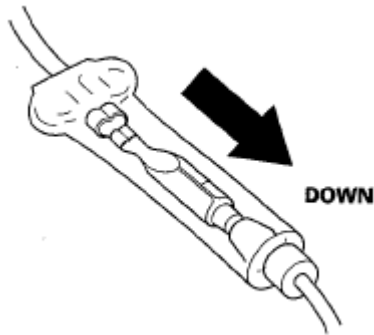


Fig. 8: Identifying Opening End Of Cover Faces Down
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Handling Wires and Harnesses

- Secure wires and wire harnesses to the frame with their respective wire ties at the designated locations.
- Remove clips carefully; don't damage their locks (A).

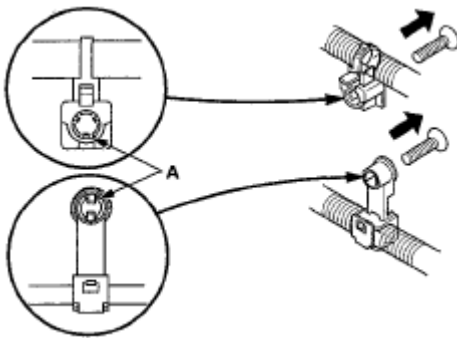


Fig. 9: Identifying Wire Harness Clips/Tie-downs
Courtesy of AMERICAN HONDA MOTOR CO., INC.

- After installing harness clips, make sure the harness doesn't interfere with any moving parts.
- Keep wire harnesses away from exhaust pipes and other hot parts, from sharp edges of brackets and holes, and from exposed screws and bolts.
- Seat grommets in their grooves properly (A). Do not leave grommets distorted (B).

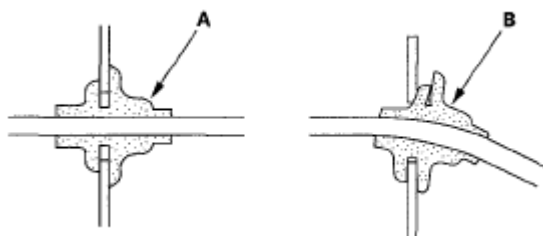


Fig. 10: Identifying Properly Seated Grommets
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Testing and Repairs

- Do not use wires or harnesses with broken insulation. Replace them or repair them by wrapping the break with electrical tape.
- After installing parts, make sure that no wires are pinched under them.
- When using electrical test equipment, follow the manufacturer's instructions and those described in this manual.
- If possible, insert the probe of the tester from the wire side (except waterproof connector).

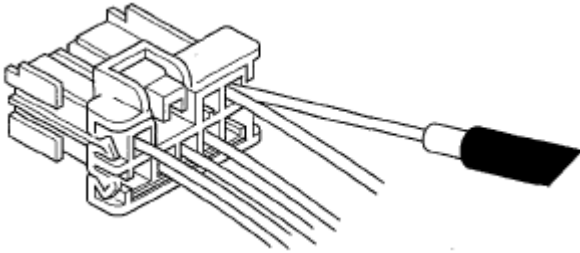


Fig. 11: Inserting Probe Of Tester Wire Side Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

- Use back probe adaptor 07TAZ-001020A.

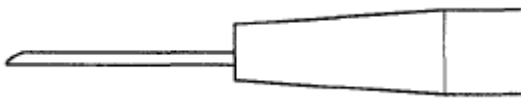


Fig. 12: Identifying Back Probe Adaptor
Courtesy of AMERICAN HONDA MOTOR CO., INC.

- Refer to the instructions in the Honda Terminal Kit for identification and replacement of connector terminals.

FIVE-STEP TROUBLESHOOTING

1. Verify The Complaint

Turn on all the components in the problem circuit to verify the clients complaint. Note the symptoms. Do not begin disassembly or testing until you have narrowed down the problem area.

2. Analyze The Schematic

Look up the schematic for the problem circuit. Determine how the circuit is supposed to work by tracing the current paths from the power feed through the circuit components to ground. If several circuits fail at the same time, the fuse or ground is a likely cause.

Based on the symptoms and your understanding of the circuit operation, identify one or more possible causes of the problem.

3. Isolate The Problem By Testing The Circuit

Make circuit tests to check the diagnosis you made in step 2. Keep in mind that a logical, simple procedure is the key to efficient troubleshooting. Test for the most likely cause of failure first. Try to

make tests at points that are easily accessible.

4. Fix The Problem

Once the specific problem is identified, make the repair. Be sure to use proper tools and safe procedures.

5. Make Sure The Circuit Works

Turn on all components in the repaired circuit in all modes to make sure you've fixed the entire problem. If the problem was a blown fuse, be sure to test all of the circuits on the fuse. Make sure no new problems turn up and the original problem does not recur.

WIRE COLOR CODES

The following abbreviations are used to identify wire colors in the circuit schematics:

WIRE COLOR CODES REFERENCE

WHT	White
YEL	Yellow
BLK	Black
BLU	Blue
GRN	Green
RED	Red
ORN	Orange
PNK	Pink
BRN	Brown
GRY	Gray
PUR	Purple
LT BLU	Light Blue
LT GRN	Light Green

The wire insulation has one color or one color with another color stripe. The second color is the stripe.

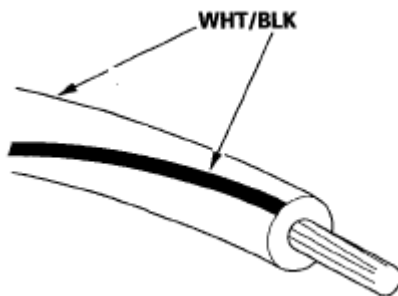


Fig. 13: Identifying Wire Color With Color Stripe
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

HOW TO CHECK FOR DTCS WITH THE HONDA DIAGNOSTIC SYSTEM (HDS)

1. Connect the Honda Diagnostic System (HDS) to the data link connector (DLC) (A) located under the

driver's side of the dashboard.

NOTE: For specific operations, refer to the user's manual that came with the Honda Diagnostic System (HDS).

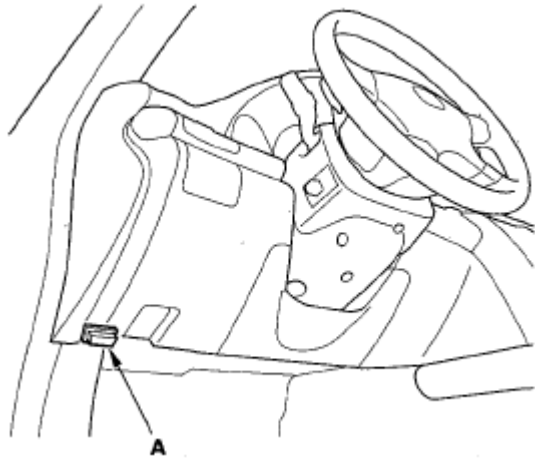


Fig. 14: Identifying Data Link Connector Location
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Select the TEST MODE MENU and check for Diagnostic Trouble Code (DTCs), and note them. Refer to the Troubleshooting Index and begin the appropriate troubleshooting procedure.

REMOTE REGISTRATION AND REPROGRAMMING FOR KEYLESS ACCESS SYSTEM AND IMMOBILIZER SYSTEM

KEYLESS ACCESS SYSTEM

Registration by the HDS is necessary when:

- Any of the remotes (A) are replaced.
- All of the remotes (A) are replaced.
- A new remote (A) is added.
- New remotes (A) are added.
- The keyless access control unit (B) is replaced.
- The ignition switch control unit (C) is replaced.
- The imoes unit (D) is replaced.
- Deleting the registration of a lost remote(s).
- The PCM is replaced.

NOTE: The keyless access control unit can store up to six remotes.

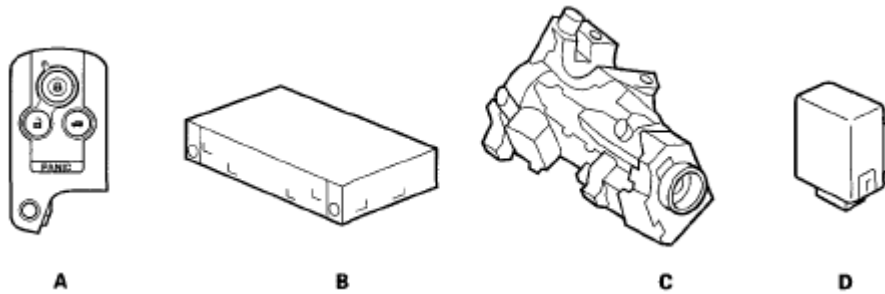


Fig. 15: Identifying Keyless Access System Components
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

IMMOBILIZER SYSTEM

Registration by the HDS is necessary when:

- A built-in key (A) is added or replaced.
- The immobilizer control unit-receiver (B) is replaced.
- The imoes unit (C) is replaced.
- The PCM is replaced.

NOTE: The immobilizer control unit-receiver can store up to six built-in keys.

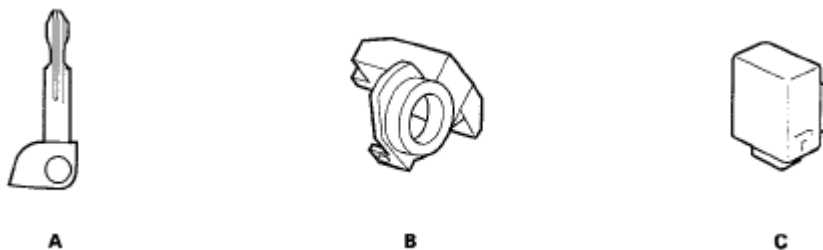


Fig. 16: Identifying Immobilizer System Components
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

REGISTRATION

1. Turn the ignition switch ON (II) with the built-in key.
2. Connect the HDS to the data link connector.
3. Select KEYLESS ACCESS or IMMOBILIZER (depending on the part replaced)* from the SYSTEM SELECT menu.

* : If registering the imoes unit, select IMMOBILIZER from the SYSTEM SELECT menu. (This is not necessary to register as a keyless access composed part.)

4. Enter the TEST MODE menu, then select the suitable menu from the HDS indications.