

2005-08 ACCESSORIES AND EQUIPMENT

Wipers/Washers - RL

COMPONENT LOCATION INDEX

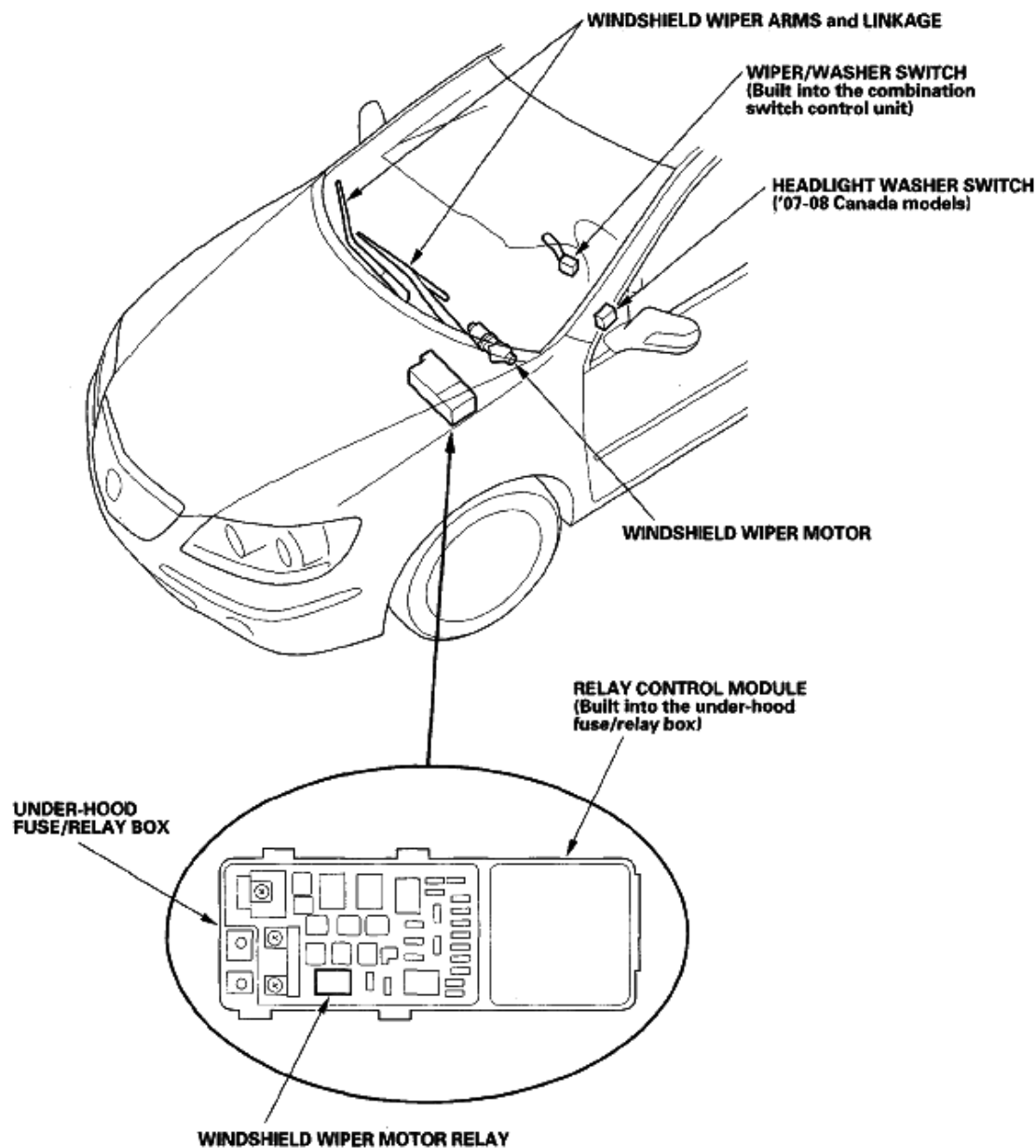


Fig. 1: Identifying Wipers/Washers Component Location (1 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

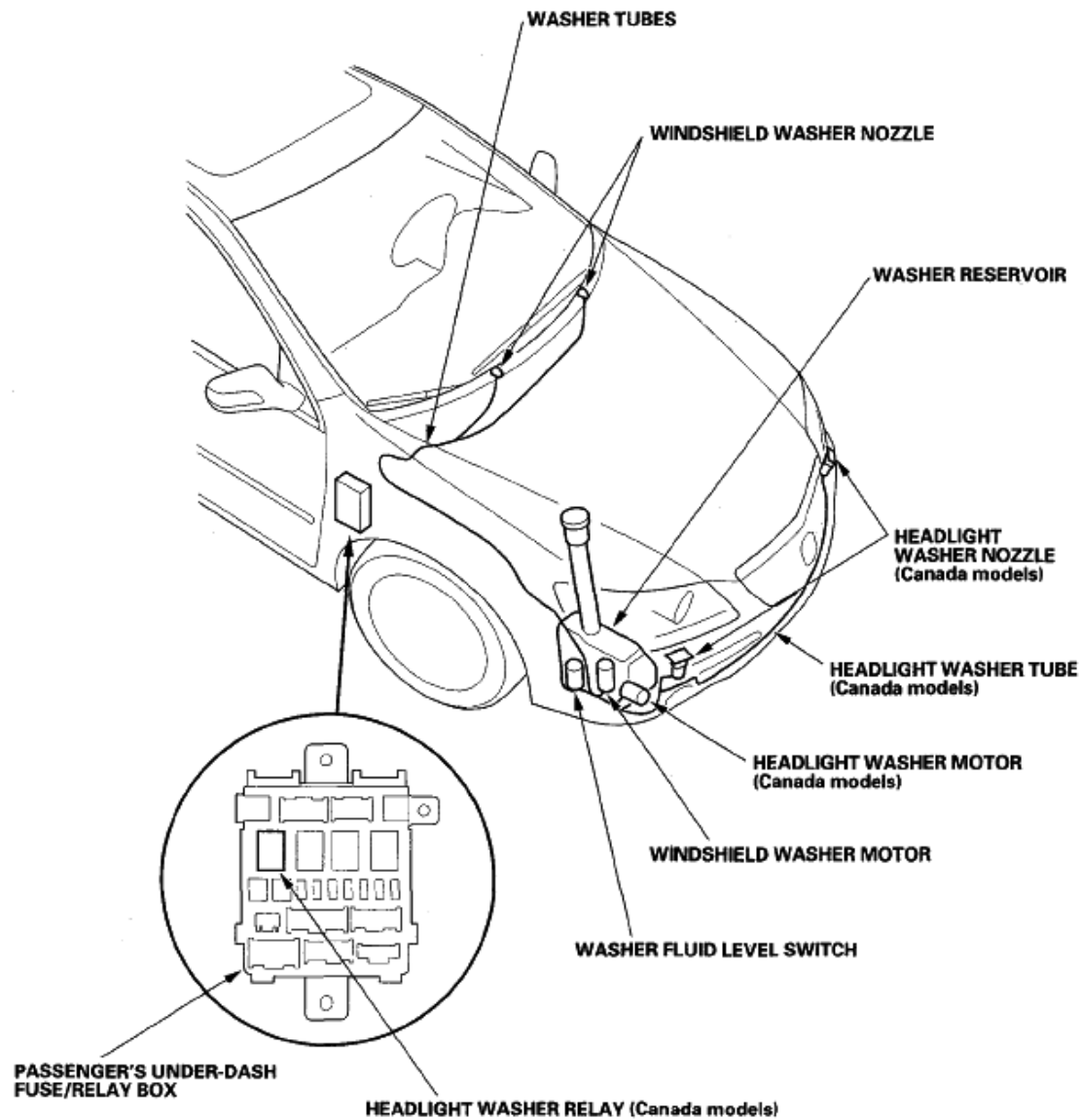


Fig. 2: Identifying Wipers/Washers Component Location (2 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

CIRCUIT DIAGRAM

2007 Acura RL

2005-08 ACCESSORIES AND EQUIPMENT Wipers/Washers - RL

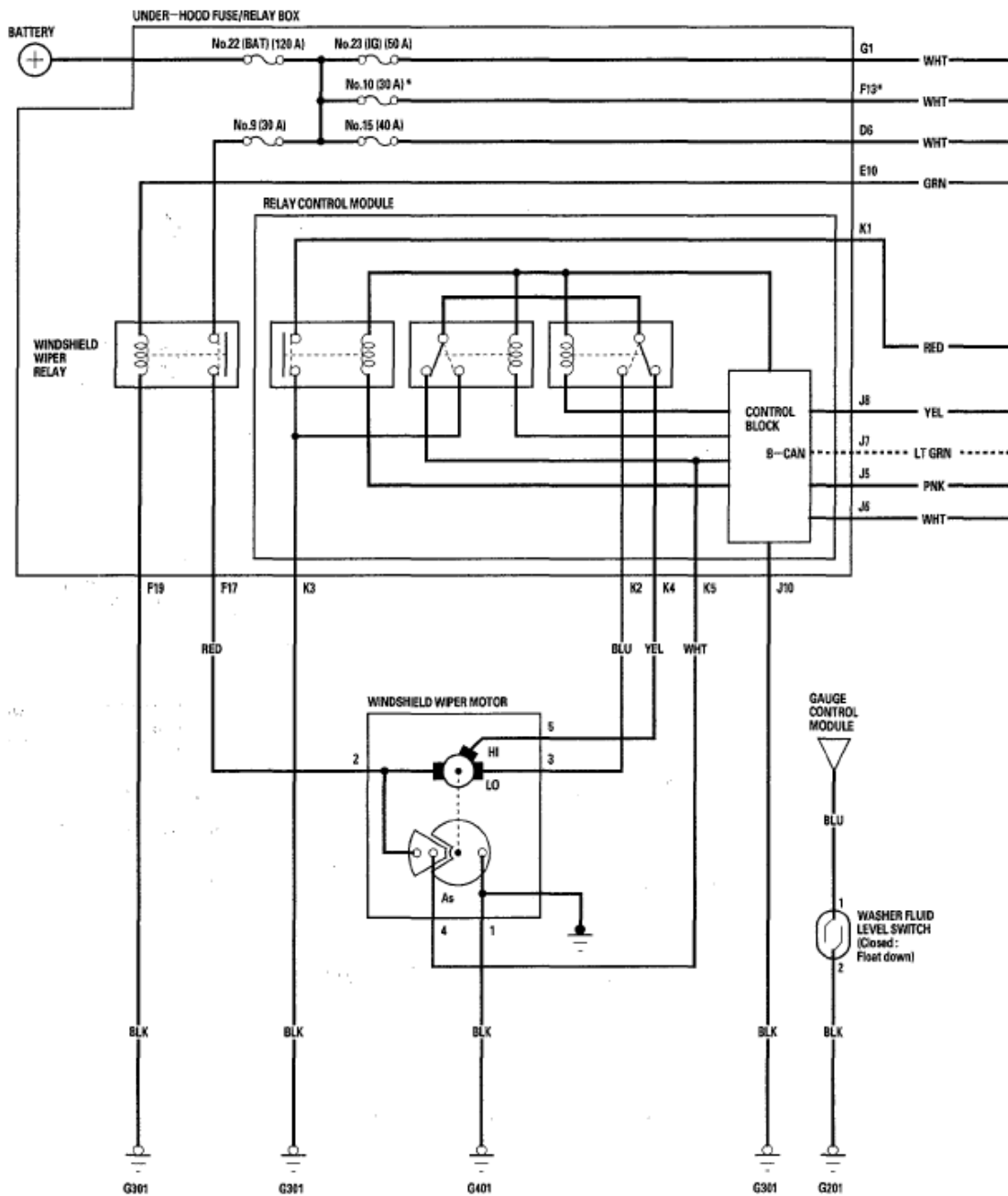


Fig. 3: Wipers/Washers - Circuit Diagram (1 Of 2)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

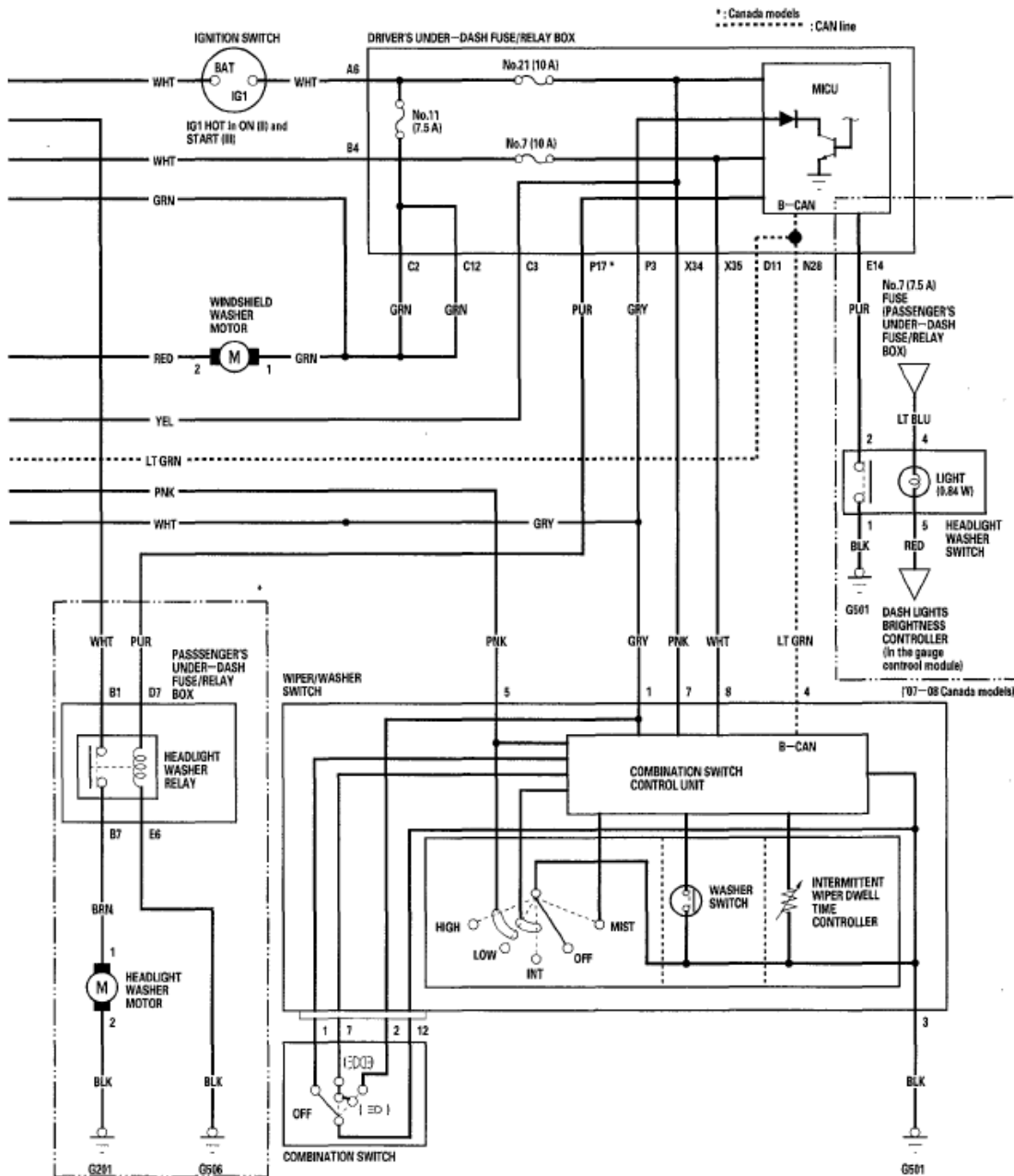


Fig. 4: Wipers/Washers - Circuit Diagram (2 Of 2)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

DTC TROUBLESHOOTING

DTC B1076: WINDSHIELD WIPER 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. Turn the wiper switch to INT, LOW, then HIGH for at least 2 seconds each.
4. Check for DTCs with the HDS.

Is DTC B1076 indicated?

YES - Go to step 5.

NO - Intermittent failure, the windshield wiper system is OK at this time. Check for loose poor connections.

5. With the wiper/washer switch OFF, select WINDSHIELD WIPERS from the BODY ELECTRICAL SYSTEM SELECT menu, and enter the DATA LIST.
6. Check the ON/OFF information of the windshield wiper switch (BACK-UP) in the DATA LIST.

Is the information indicator OFF?

YES - Go to step 7.

NO - Go to step 11.

7. Turn the wiper switch ON (low or high).
8. Check the ON/OFF information of the windshield wiper switch (BACK-UP) in the DATA LIST.

Is the information indicator ON?

YES - Faulty relay control module; replace the under-hood fuse/relay box.

NO - Go to step 9.

9. Disconnect under-hood fuse/relay box connector J (10P) and the wiper/washer switch 8P connector.
10. Check for continuity between the No. 5 terminal of under-hood fuse/relay box connector J (10P) and the No. 5 terminal of the wiper/washer switch (combination switch control unit) 8P connector.

UNDER-HOOD FUSE/RELAY BOX CONNECTOR J (10P)

Wire side of female terminals



FR WIPER BACKUP
(PNK)



WIPER/WASHER SWITCH 8P CONNECTOR

Wire side of female terminals

Fig. 5: Checking Continuity Between No. 5 Terminal And No. 5 Terminal Of Wiper/Washer Switch 8P Connector

Courtesy of AMERICAN HONDA MOTOR CO., INC.

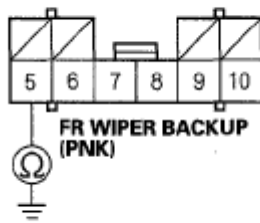
Is there continuity?

YES - Faulty combination switch control unit; replace the wiper/washer switch.

NO - Repair an open in the PNK wire.

11. Disconnect under-hood fuse/relay box connector J (10P).
12. Check for continuity between the No. 5 terminal of under-hood fuse/relay box connector J (10P) and body ground.

UNDER-HOOD FUSE/RELAY BOX CONNECTOR J (10P)



Wire side of female terminals

Fig. 6: Checking Continuity Between No. 5 Terminal Of Under-Hood Fuse/Relay Box Connector J (10P) And Body Ground
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

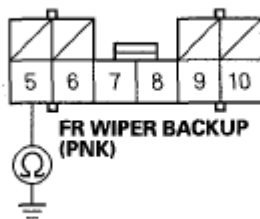
Is there continuity?

YES - Go to step 13.

NO - Faulty relay control module; replace the under-hood fuse/relay box.

13. Disconnect the wiper/washer switch 8P connector.
14. Check for continuity between the No. 5 terminal of under-hood fuse/relay box connector J (10P) and body ground.

UNDER-HOOD FUSE/RELAY BOX CONNECTOR J (10P)



Wire side of female terminals

Fig. 7: Checking Continuity Between No. 5 Terminal Of Under-Hood Fuse/Relay Box Connector J (10P) And Body Ground
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair a short in the PNK wire.

NO - Faulty wiper/washer switch; replace it.

DTC B1077: WINDSHIELD WIPER (AS) 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. Turn the wiper switch to LOW, then HIGH, for at least 15 seconds in each position.
4. Check for DTCs with the HDS.

Is DTC B1077 indicated?

YES - Go to step 5.

NO - Intermittent failure, the windshield wiper system is OK at this time. Check for loose or poor connections.

5. Turn the ignition switch OFF.
6. Test the wiper motor (see **WIPER MOTOR TEST**).

Does the wiper motor operate correctly?

YES - Go to step 7.

NO - Replace the windshield wiper motor and recheck.

7. Turn the ignition switch ON (II).
8. Turn the wiper switch to LOW, then HIGH, and check wiper operation.

Do the wipers operate normally?

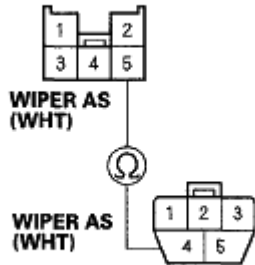
YES - Go to step 9.

NO - Go to step 12.

9. Disconnect under-hood fuse/relay box connector K (5P) and the windshield wiper motor 5P connector.
10. Check for continuity between the No. 4 terminal of the windshield wiper motor 5P connector and the No. 5 terminal of under-hood fuse/relay box connector K (5P).

UNDER-HOOD FUSE/RELAY BOX CONNECTOR K (5P)

Wire side of female terminals



WINDSHIELD WIPER MOTOR 5P CONNECTOR

Wire side of female terminals

Fig. 8: Checking Continuity Between No. 4 Terminal And No. 5 Terminal Of Under-Hood Fuse/Relay Box Connector K (5P)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

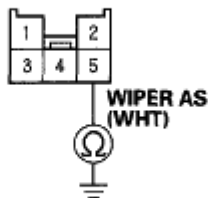
Is there continuity?

YES - Go to step 11.

NO - Repair an open in the WHT wire.

11. Check for continuity between the No. 5 terminal of under-hood fuse/relay box connector K (5P) and body ground.

UNDER-HOOD FUSE/RELAY BOX CONNECTOR K (5P)



Wire side of female terminals

Fig. 9: Checking Continuity Between No. 5 Terminal Of Under-Hood Fuse/Relay Box Connector K (5P) And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair a short in the WHT wire.

NO - Faulty relay control module; replace the under-hood fuse/relay box.

12. Turn the ignition switch OFF, and check the No. 11 (7.5 A) fuse in the driver's under-dash fuse/relay box.

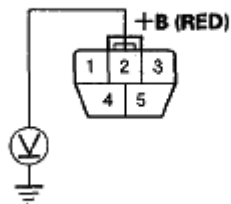
Is the fuse OK?

YES - Go to step 13.

NO - Replace the blown fuse and recheck the system.

13. Turn the ignition switch ON (II).
14. Measure the voltage between the No. 2 terminal of the windshield wiper motor 5P connector and body ground.

WINDSHIELD WIPER MOTOR 5P CONNECTOR



Wire side of female terminals

Fig. 10: Measuring Voltage Between No. 2 Terminal Of Windshield Wiper Motor 5P Connector And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

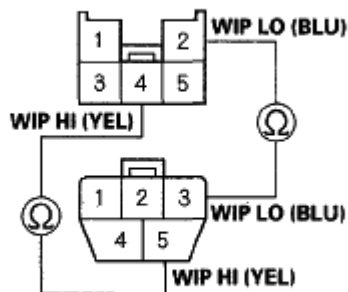
YES - Go to step 15.

NO - Check the No. 9 (30 A) fuse in the under-hood fuse/relay box. If the fuse is OK, repair an open in the RED wire, or replace the faulty windshield wiper motor relay in the under-hood fuse/relay box.

15. Check for continuity between the No. 3 and No. 5 terminals of the windshield wiper motor 5P connector and the No. 2 and No. 4 terminals of under-hood fuse/relay box connector K (5P) respectively.

UNDER-HOOD FUSE/RELAY BOX CONNECTOR K (5P)

Wire side of female terminals



WINDSHIELD WIPER MOTOR 5P CONNECTOR

Wire side of female terminals

Fig. 11: Checking Continuity Between No. 3 And No. 5 Terminals And No. 2 And No. 4 Terminals

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Faulty relay control module; replace the under-hood fuse/relay box.

NO - Repair an open in the BLU or YEL wire.

DTC B1281: WINDSHIELD WIPER SWITCH MIST POSITION CIRCUIT MALFUNCTION; DTC B1282: WINDSHIELD WIPER SWITCH INT (AUTO) POSITION CIRCUIT MALFUNCTION; DTC B1283: WINDSHIELD WIPER SWITCH LOW POSITION CIRCUIT MALFUNCTION; DTC B1284: WINDSHIELD WIPER SWITCH HIGH POSITION CIRCUIT MALFUNCTION

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. Turn the windshield wiper switch to MIST, and wait for 2 seconds.
4. Turn the windshield wiper switch OFF, and wait for 2 seconds.
5. Turn the windshield wiper switch to INT (AUTO), and wait for 2 seconds.
6. Turn the windshield wiper switch to LOW, and wait for 2 seconds.
7. Turn the windshield wiper switch in HIGH, and wait for 2 seconds.
8. Check for DTCs with the HDS.

Is DTC B1281, B1282, B1283, and/or B1284 indicated?

YES - Replace the wiper/washer switch.

NO - Intermittent failure, the wiper/washer switch and the combination switch control unit are OK at this time. Check for loose or poor connections.

WIPER/WASHER SWITCH REPLACEMENT

NOTE: The wiper/washer switch is built into the combination switch control unit. For the wiper/washer test, refer to the **COMBINATION SWITCH CONTROL UNIT INPUT TEST**.

1. Remove the driver's dashboard undercover (see **DRIVER'S DASHBOARD UNDERCOVER REMOVAL/INSTALLATION**), and the driver's dashboard lower cover (see **DRIVER'S DASHBOARD LOWER COVER REMOVAL/INSTALLATION**).
2. Remove the steering column covers (see **STEERING COLUMN REMOVAL AND INSTALLATION**).
3. Disconnect the combination light switch 12P connector, and dashboard wire harness 8P connector (A) from the wiper/washer switch (B).

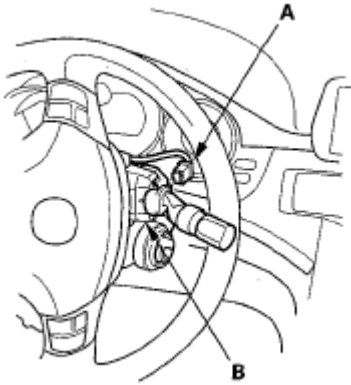


Fig. 12: Identifying Dashboard Wire Harness 8P Connector And Wiper/Washer Switch
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Remove the two screws, then slide out the wiper/washer switch.

WIPER/WASHER SWITCH (COMBINATION SWITCH CONTROL UNIT) INPUT TEST

1. Before troubleshooting the wiper/washer system, troubleshoot the B-CAN System Diagnosis Test Mode A (see **TROUBLESHOOTING - B-CAN SYSTEM DIAGNOSIS TEST MODE A**).
2. Remove the driver's dashboard undercover (see **DRIVER'S DASHBOARD UNDERCOVER REMOVAL/INSTALLATION**), and the driver's dashboard lower cover (see **DRIVER'S DASHBOARD LOWER COVER REMOVAL/INSTALLATION**).
3. Remove the steering column covers (see **STEERING COLUMN REMOVAL AND INSTALLATION**).
4. Disconnect the 8P connector (A) from the wiper/washer switch (B).

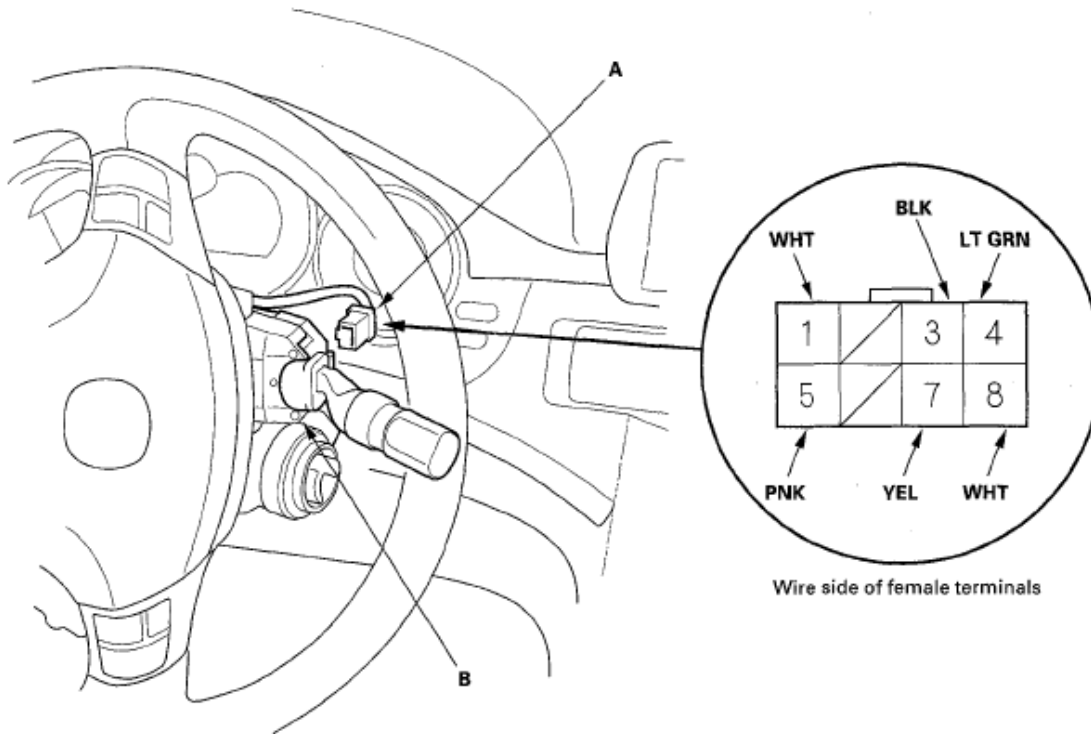


Fig. 13: Identifying Wiper/Washer Switch And 8P Connector
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. 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 6.
6. With the connector still disconnected, 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 7.

WIRE CAVITY REFERENCE CHART

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
5	PNK	Under all conditions	Check for continuity between the No. 5 terminal and under-hood fuse/relay box connector J (10P) No. 5 terminal: There should be continuity.	An open in the wire
		Disconnect under-hood fuse/relay box connector J (10P)	Check for continuity between the No. 5 terminal and body ground: There should be no continuity.	A short to ground in the wire
4	LT GRN	Under all conditions	Check for continuity between the No. 4 terminal and driver's under-dash fuse/relay box connector N (45P) No. 28 terminal: There should be continuity.	An open in the wire
		Disconnect driver's	Check for continuity between the No. 4	A short to ground

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		under-dash fuse/relay box connector N (45P)	terminal and body ground: There should be no continuity.	in the wire
1	WHT	Under all conditions	Check for continuity between the No. 1 terminal and under-hood fuse/relay box connector J (10P) No. 6 terminal: There should be continuity.	An open in the wire
		Disconnect under-hood fuse/relay box connector J (10P)	Check for continuity between the No. 1 terminal and body ground: There should be no continuity.	A short to ground in the wire

7. Reconnect the 8P connector to the wiper/washer 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, replace the wiper/washer switch (combination switch control unit).

WIRE CAVITY REFERENCE CHART

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
3	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 (G501)• An open in the wire
8	WHT	Under all conditions	Measure the voltage to ground: There should be battery voltage.	<ul style="list-style-type: none">• 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• An open in the wire
7	YEL	Ignition switch ON (II)	Measure the voltage to ground: There should be battery voltage.	<ul style="list-style-type: none">• Blown No. 21 (10 A) fuse in the driver's under-dash fuse/relay box• An open in the wire

HEADLIGHT WASHER SWITCH TEST/REPLACEMENT**'07-08 CANADA MODELS**

1. Carefully pry the switch panel out from the dashboard.
2. Disconnect the 5P connector (A) from the headlight washer switch (B).

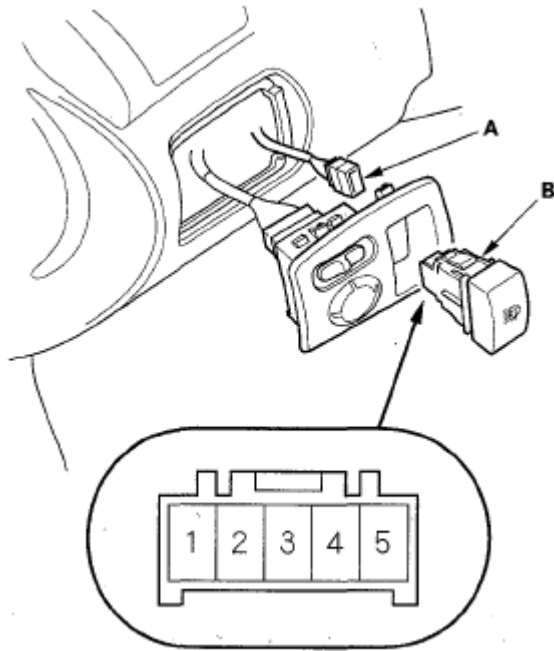


Fig. 14: Identifying Headlight Washer Switch And 5P Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Check for continuity between the terminals in each switch position (see **Fig. 15**).

Terminal Position	1	2	4		5
OFF			○	⊗	○
ON	○	○	○	⊗	○

Fig. 15: Checking For Continuity Between Terminals In Each Switch Position
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. If the continuity is not as specified, replace the bulb (C) or the headlight washer switch.

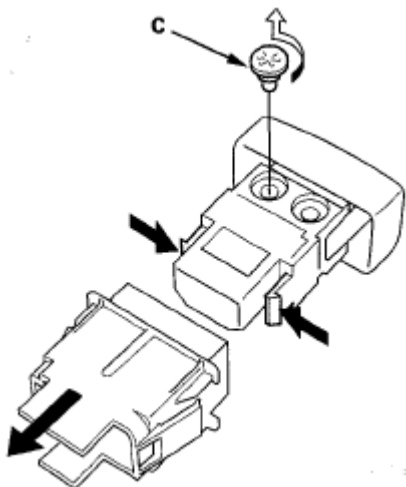


Fig. 16: Identifying Headlight Washer Switch And Bulb

Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Install in the reverse order of removal.

WIPER MOTOR TEST

1. Open the hood, and remove the wiper arms (see WIPER MOTOR REPLACEMENT).

NOTE: Carefully remove the wiper arms so that they do not touch the hood.

2. Remove the hood seal and cowl covers.
3. Disconnect the 5P connector (A) from the wiper motor (B).

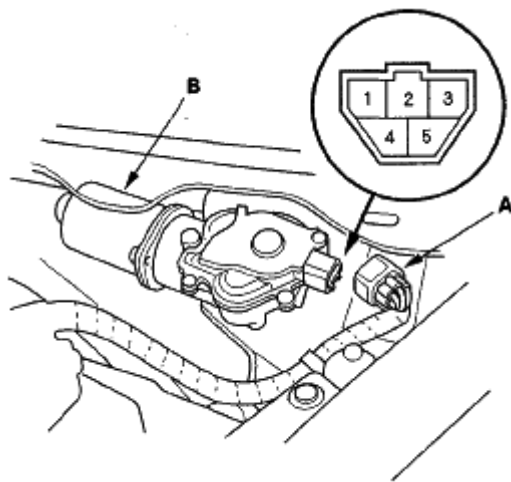


Fig. 17: Identifying Wiper Motor And 5P Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Test the motor by connecting battery power to the No. 2 terminal and grounding the No. 3 terminal of the wiper motor 5P connector. The motor should run at low speed. If the motor does not run or fails to run smoothly, replace the motor.
5. Test the motor by connecting battery power to the No. 2 terminal and grounding the No. 5 terminal of the wiper motor 5P connector. The motor should run at high speed. If the motor does not run or fails to run smoothly, replace the motor.
6. Connect an analog ohmmeter between the No. 1 and No. 4 terminals, and run the motor at low or high speed. The ohmmeter should indicate continuity and no continuity alternately. If it does not, replace the motor.

WASHER MOTOR TEST

1. Remove the right inner fender (see FRONT INNER FENDER REPLACEMENT).
2. Disconnect the 2P connector (A) from the washer motor (B).

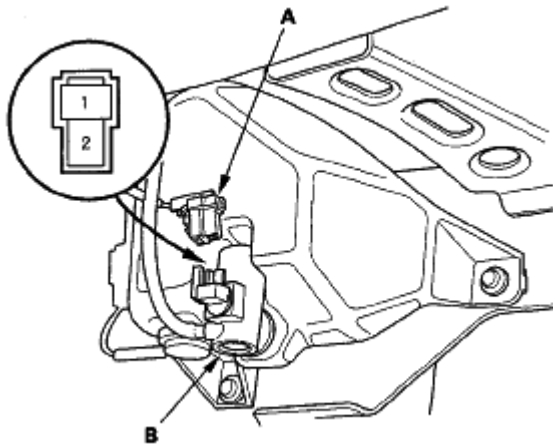


Fig. 18: Identifying Washer Motor And 2P Connector
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Test the motor by connecting battery power to the No. 1 terminal and grounding the Non terminal of the washer motor. The motor should run.
 - If the motor does not run or fails to run smoothly, replace it.
 - If the motor runs smoothly, but little or no washer fluid is pumped, check for a disconnected or blocked washer hose, or a clogged washer motor outlet.

WIPER MOTOR REPLACEMENT

1. Open the hood.
2. Remove the caps, nuts (A), and the windshield wiper arms (B).

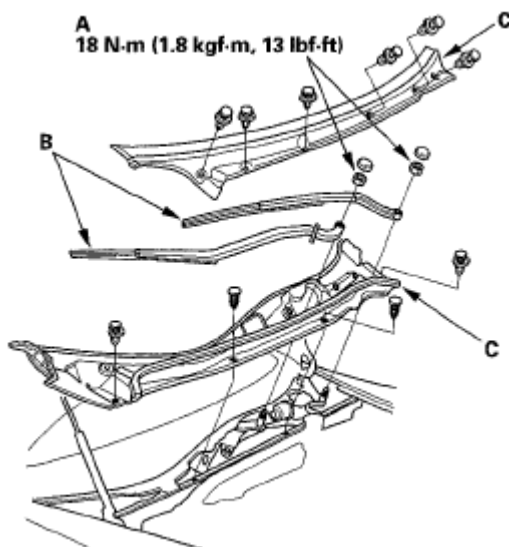


Fig. 19: Identifying Windshield Wiper Arms With Torque Specifications
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the cowl covers (C).
4. Disconnect the 5P connector (A) from the wiper motor.

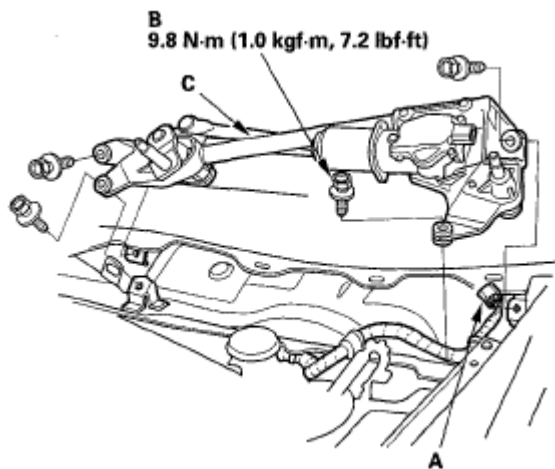


Fig. 20: Identifying Wiper Motor With Torque Specifications
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Remove the four bolts (B) and wiper linkage assembly (C).
6. Scribe a line (A) across the link and windshield wiper linkage to show the original adjustment. Separate the windshield wiper linkage (B) from the wiper motor (C).

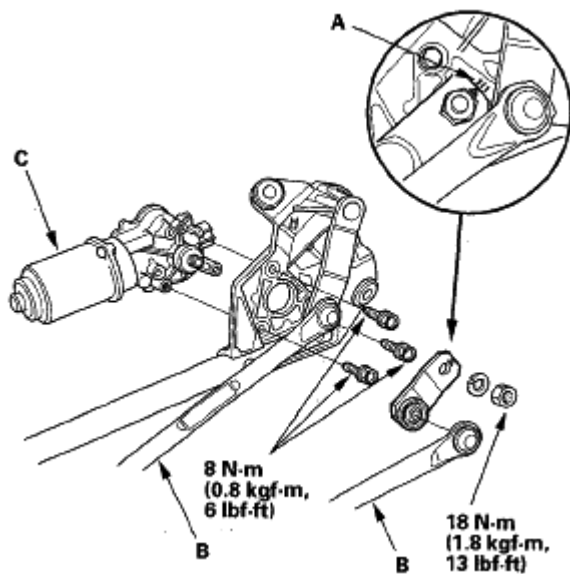


Fig. 21: Identifying Wiper Motor And Windshield Wiper Linkage With Torque Specifications
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

7. Install in the reverse order to removal, and note these items:
 - Apply multipurpose grease to the moving parts.
 - Before reinstalling the wiper arms, turn the wiper switch ON, then OFF to return the wiper shafts to the park position.
 - If necessary, replace any damaged clips.
 - Check the wiper motor operation.

WASHER RESERVOIR REPLACEMENT

1. Remove the right inner fender (see **FRONT INNER FENDER REPLACEMENT**).
2. Disconnect the washer tube (A) and washer motor 2P connector (B).

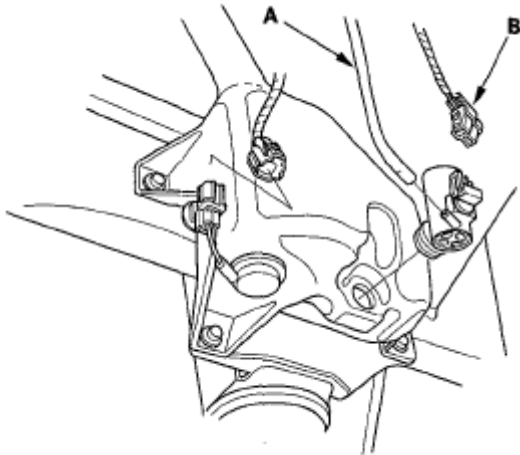


Fig. 22: Identifying Washer Motor 2P Connector And Washer Tube
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the clip and three bolts (A), then remove the washer reservoir (B).

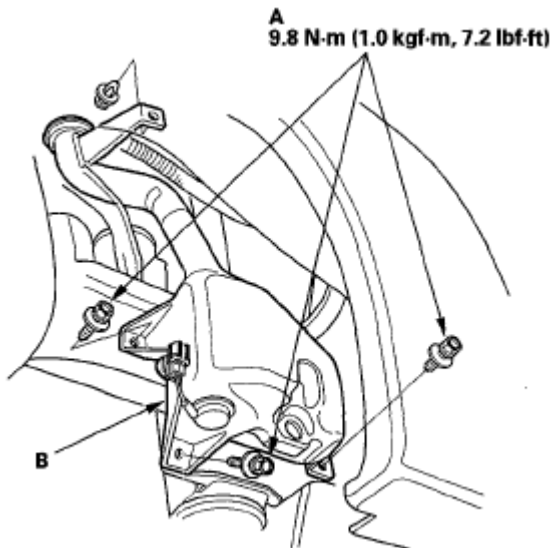


Fig. 23: Identifying Washer Reservoir With Torque Specifications
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Install the reservoir in the reverse order of removal.

WASHER FLUID LEVEL SWITCH TEST

1. Remove the right inner fender (see **FRONT INNER FENDER REPLACEMENT**).
2. Disconnect the 2P connector (A) from the washer fluid level switch (B).

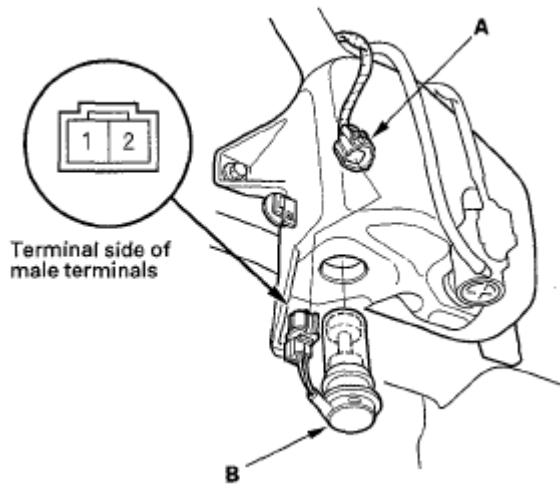


Fig. 24: Identifying Washer Fluid Level Switch And 2P Connector
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the washer fluid level switch from the reservoir.

NOTE: Fluid may flow out of the opening.

4. Check for continuity between the No. 1 and No. 2 terminals in each float position (C).
 - There should be continuity when the float is down.
 - There should be no continuity when the float is up.
5. If the continuity is not as specified, replace the switch.

HEADLIGHT WASHER MOTOR TEST/REPLACEMENT

CANADA MODELS

1. Remove the right inner fender (see **FRONT INNER FENDER REPLACEMENT**).
2. Disconnect the 2P connector (A) from the washer motor (B).

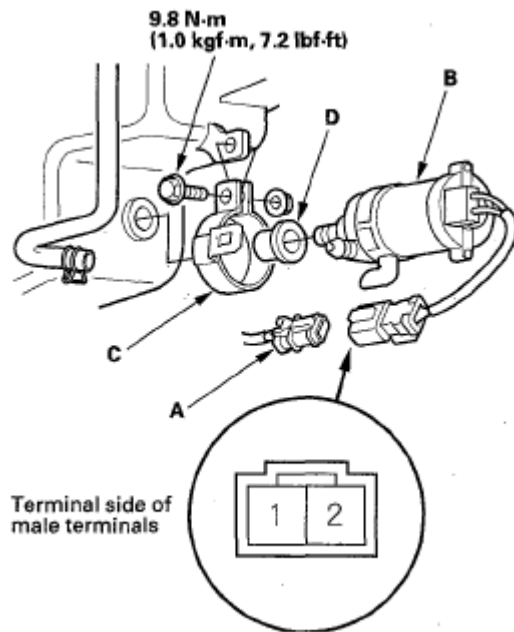


Fig. 25: Identifying Washer Motor With Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Test the motor by connecting battery power to the No. 1 terminal and grounding the No. 2 terminal of the headlight washer motor. The motor should run.
 - If the motor does not run smoothly, replace it.
 - If the motor runs smoothly, but little or no washer fluid is pumped, check for a disconnected or blocked washer hose, or a clogged washer motor outlet.
4. Remove the bolt and bracket (C), then disconnect the headlight washer motor from the washer reservoir.
5. Install the headlight washer motor in the reverse order of removal. If the gasket (D) is damaged, replace it.

HEADLIGHT WASHER NOZZLE REPLACEMENT

CANADA MODELS

1. Remove the front bumper (see **FRONT BUMPER REMOVAL/INSTALLATION**), and disconnect the headlight washer tube from the headlight washer motor.
2. Disconnect the headlight washer tube (A) from the headlight washer nozzle (B).

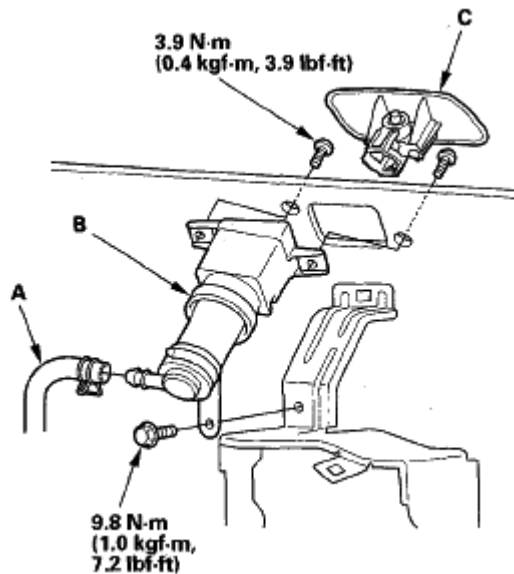


Fig. 26: Identifying Headlight Washer Nozzle With Torque Specifications
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the headlight washer nozzle cover (C).
4. Remove the bolt and two screws, then remove the headlight washer nozzle.
5. Install the nozzle in the reverse order of removal. After installation, check the headlight washer operation.

WIPER BLADE REPLACEMENT

1. Adjust the wiper arms to the winter position (see WIPER ARM/NOZZLE ADJUSTMENT), then raise the wiper arms off the windshield.

NOTE:

- Lift the driver's side first.
- Do not open the hood when the wiper arms are raised.

2. Push the edge of the cover on the blade assembly until the other side of the edge is pivoted out, and remove the cover (A).

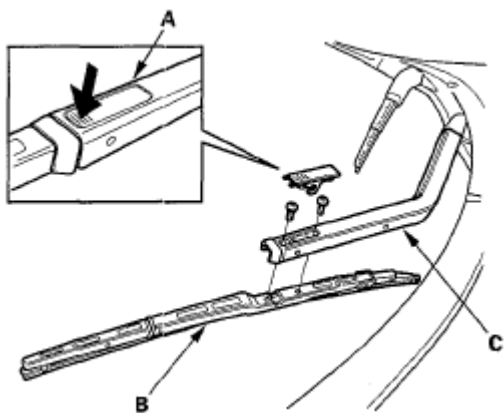


Fig. 27: Identifying Wiper Blade, Wiper Arm And Cover

Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Disconnect the blade assembly (B) from the wiper arm (C) by removing the two screws from the arm.
4. Remove the blade (A) from its holder by grasping the tabbed end of the blade. Pull firmly until the tabs come out of the holder.

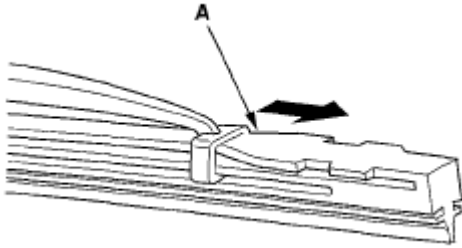


Fig. 28: Identifying Wiper Blade At Tabbed End

Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Examine the new wiper blades. If they have no plastic or metal reinforcement (A), remove the metal reinforcement strips from the old wiper blades, and install them in the slots along the edge of the new blade.

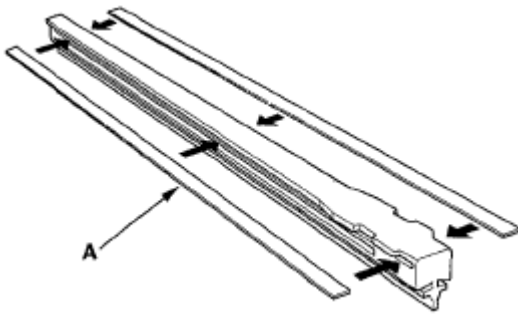


Fig. 29: Identifying Wiper Blade Reinforcements

Courtesy of AMERICAN HONDA MOTOR CO., INC.

6. Install the wiper blades onto the wiper arms in the reverse order of removal.
7. Check the wiper operation, if the blades slip, turn the wiper switch OFF, and reinstall the wiper blades securely.

WIPER ARM/NOZZLE ADJUSTMENT

The Acura RL has two the wiper arms stop positions. One is the normal position (summer position) and the other is the winter position. To adjust the wiper arms to the winter position, hold the middle of both wiper blades (A) at the same time. Pull on the arms, parallel to the windshield, until they lock in the higher position. To return to the normal position (summer position), push the same area of both arms in the opposite direction.

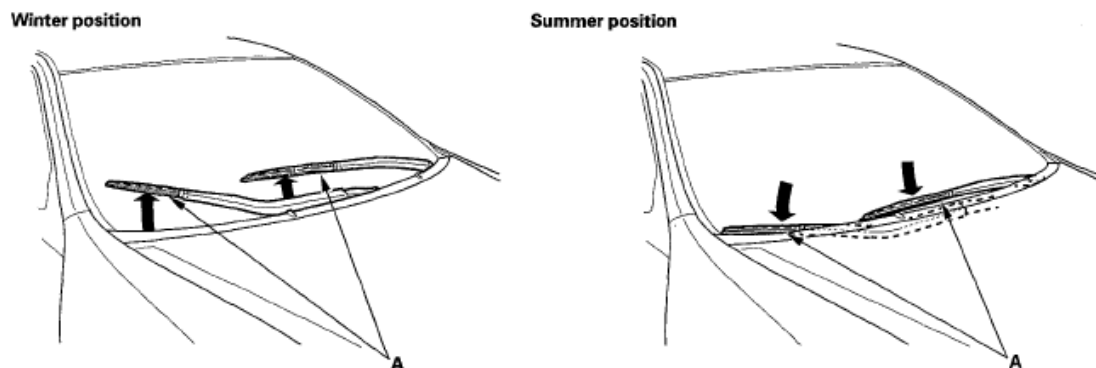


Fig. 30: Identifying Wiper Arms Stop Positions
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Wiper arms stop position

1. When the wiper arms stop at the automatic stop position, confirm the wiper arms are at the standard position.

Normal position (Summer position)

- A. Position at about 4.5 in. (115 mm) from the top of cowl cover (D)
- B. Position at about 1.1 in. (28 mm) from the top of cowl cover (D)

Winter position

- A. : Position at about 9.3 in. (237 mm) from the top of cowl cover (D)
- B. : Position at about 7.4 in. (187 mm) from the top of cowl cover (D)

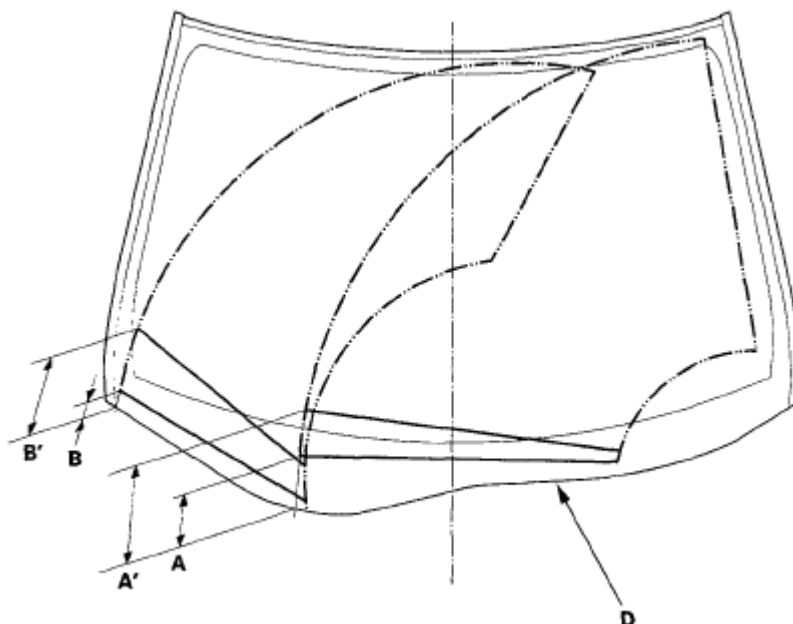


Fig. 31: Identifying Wiper Nozzle Spray Position
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Washer nozzle position

2. When you turn on the washers, confirm 50% or more of the washer fluid lands within the spray area. If the spray area is not within the standard positions, adjust the nozzles.

NOTE: The driver's side is symmetrical to the passenger's side.

- a. Position at about 16.7 in. (423 mm) from the top of the black ceramic area (E) at the lower windshield
- b. Position at about 13.2 in. (336 mm) from the top of the black ceramic area (E) at the lower windshield
- c. Position at about 15.4 in. (391 mm) from the top of the black ceramic area (E) at the lower windshield
- d. Position at about 16.5 in. (419 mm) from the windshield center line (C)
- e. Position at about 9.4 in. (238 mm) from the windshield center line (C)
- f. Position at about 1.7 in. (44 mm) from the windshield center line (C)

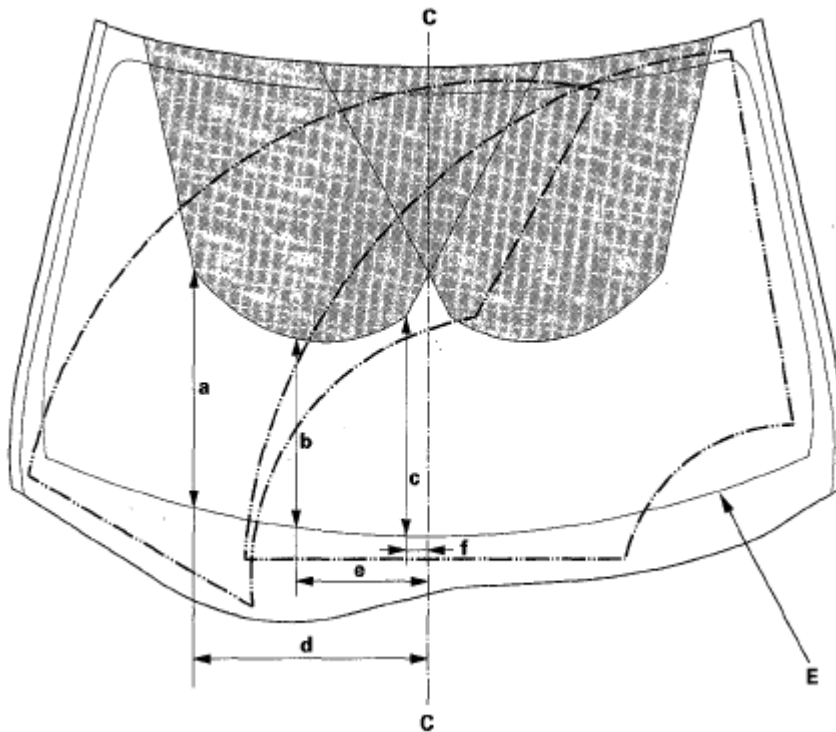


Fig. 32: Identifying Washer Nozzle Spray Position
Courtesy of AMERICAN HONDA MOTOR CO., INC.

WASHER TUBE REPLACEMENT

WINDSHIELD

1. Remove the right inner fender (see **FRONT INNER FENDER REPLACEMENT**).
2. Remove the windshield washer nozzles and clips, then remove the tube.

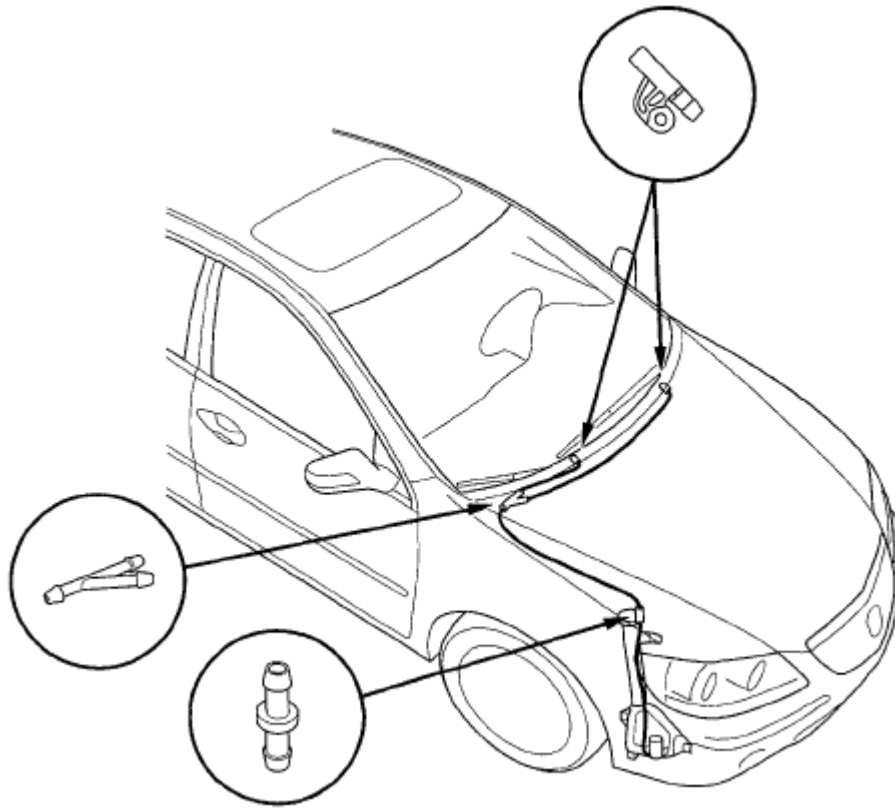


Fig. 33: Identifying Windshield Washer Nozzles, Tube And Clips
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Install in the reverse order of removal. Take care not to pinch the washer tube. Check the windshield washer operation.

HEADLIGHT WASHER

1. Remove the front bumper (see **FRONT BUMPER REMOVAL/INSTALLATION**).
2. Remove the tube, mounting bolts and washer nozzles.

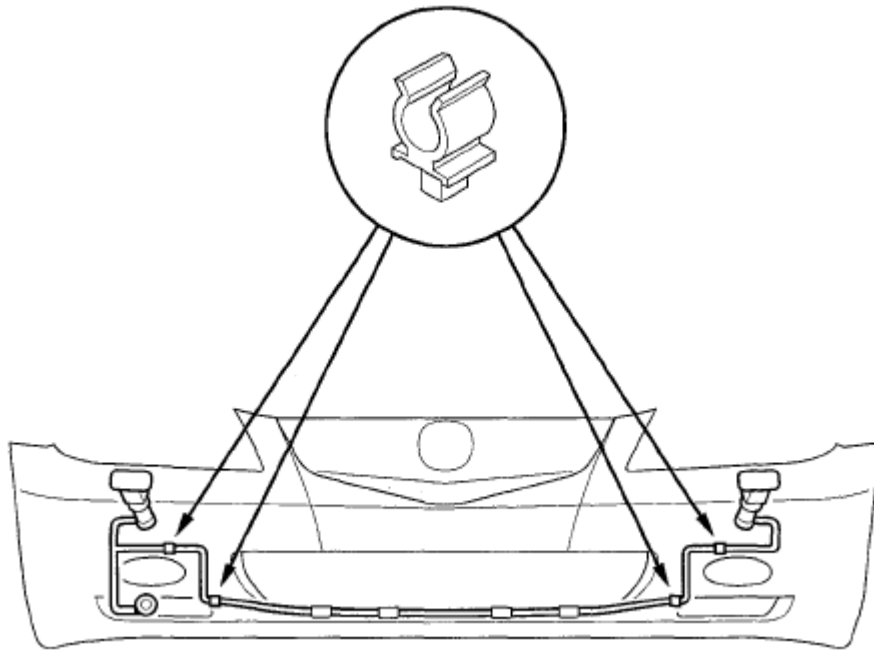


Fig. 34: Identifying Washer Nozzles, Tube And Mounting Bolts
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Install in the reverse order of removal. Take care not to pinch the washer tube. Check the headlight washer operation.