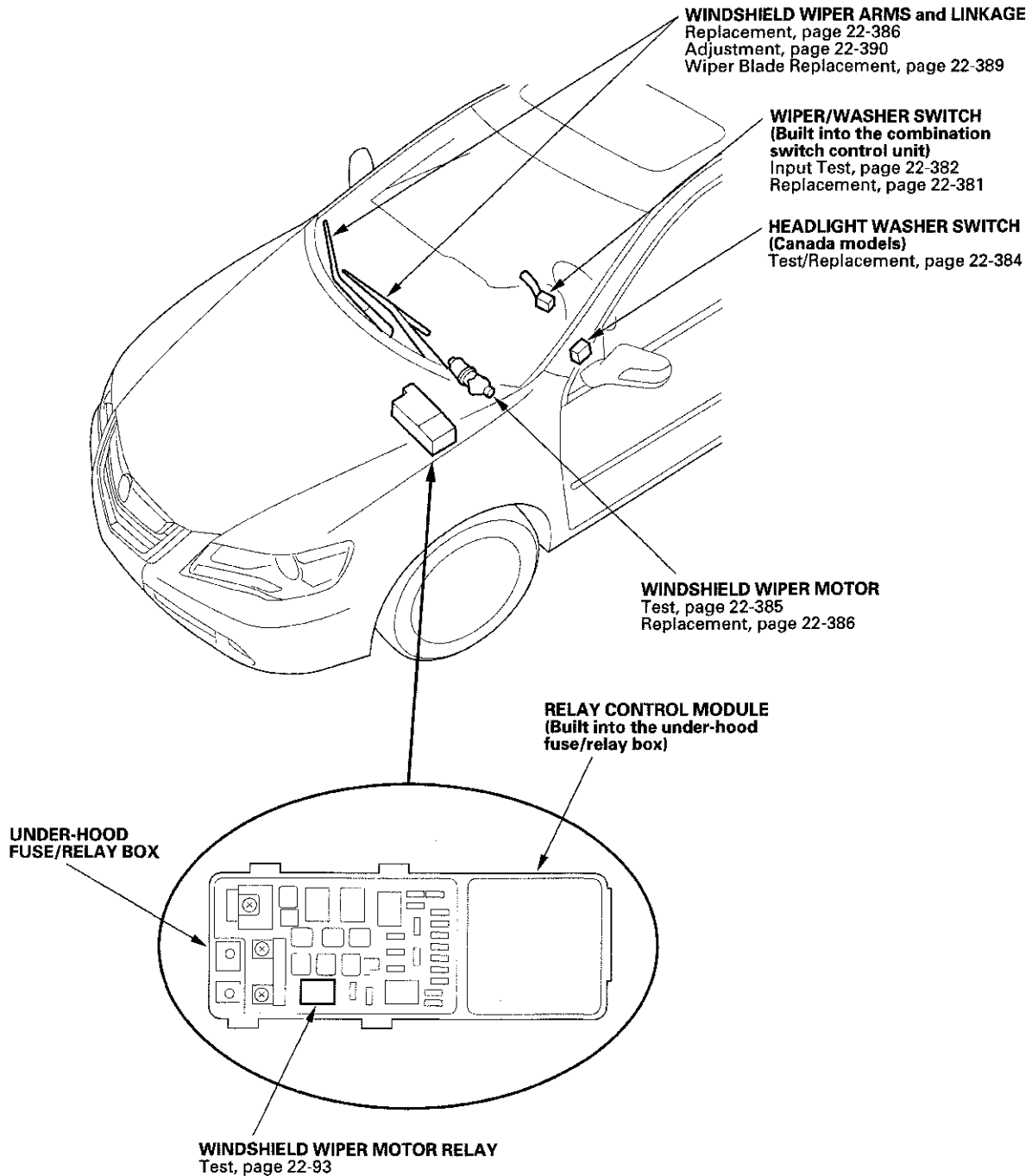


Wipers/Washers



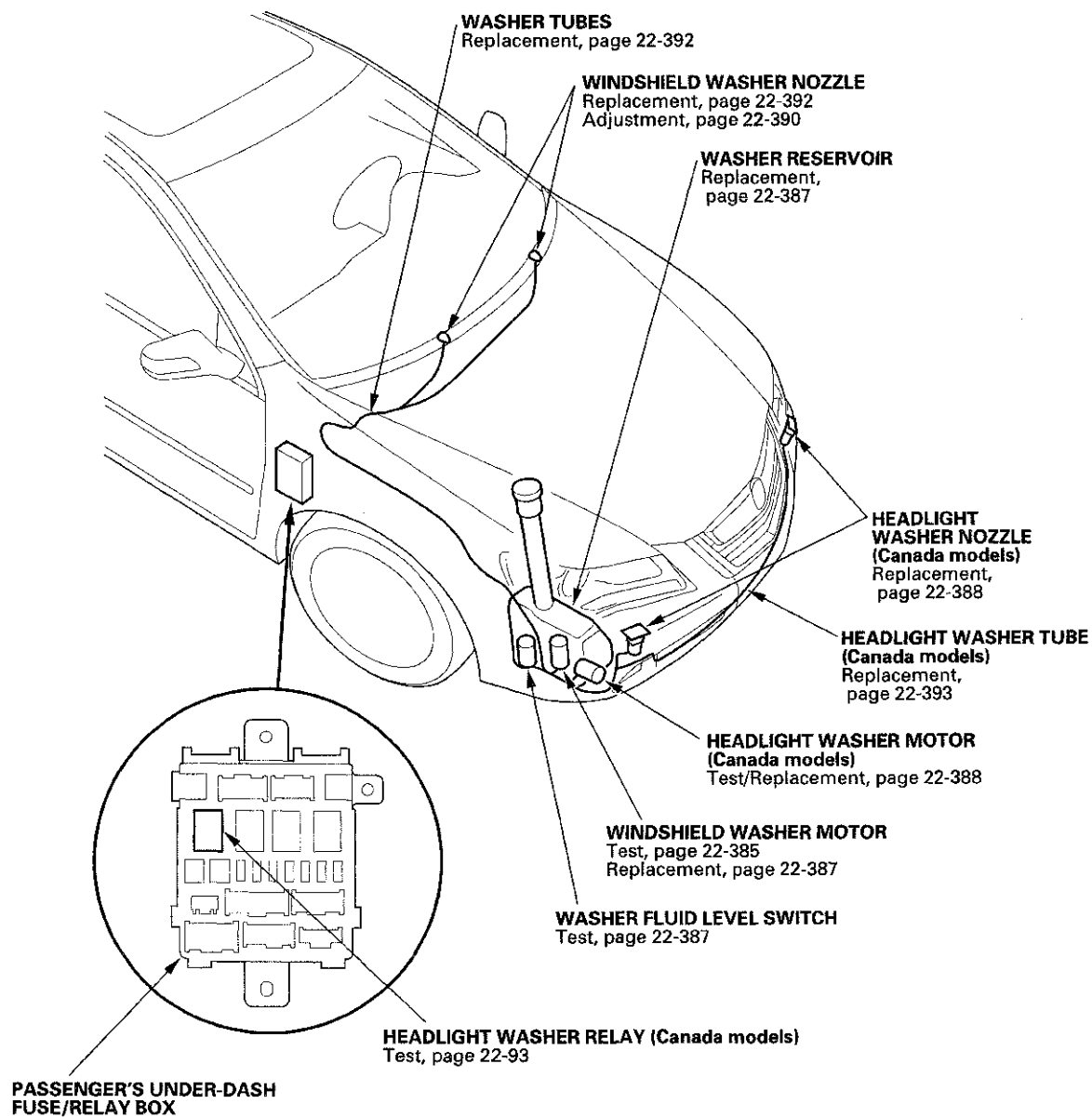
Component Location Index



(cont'd)

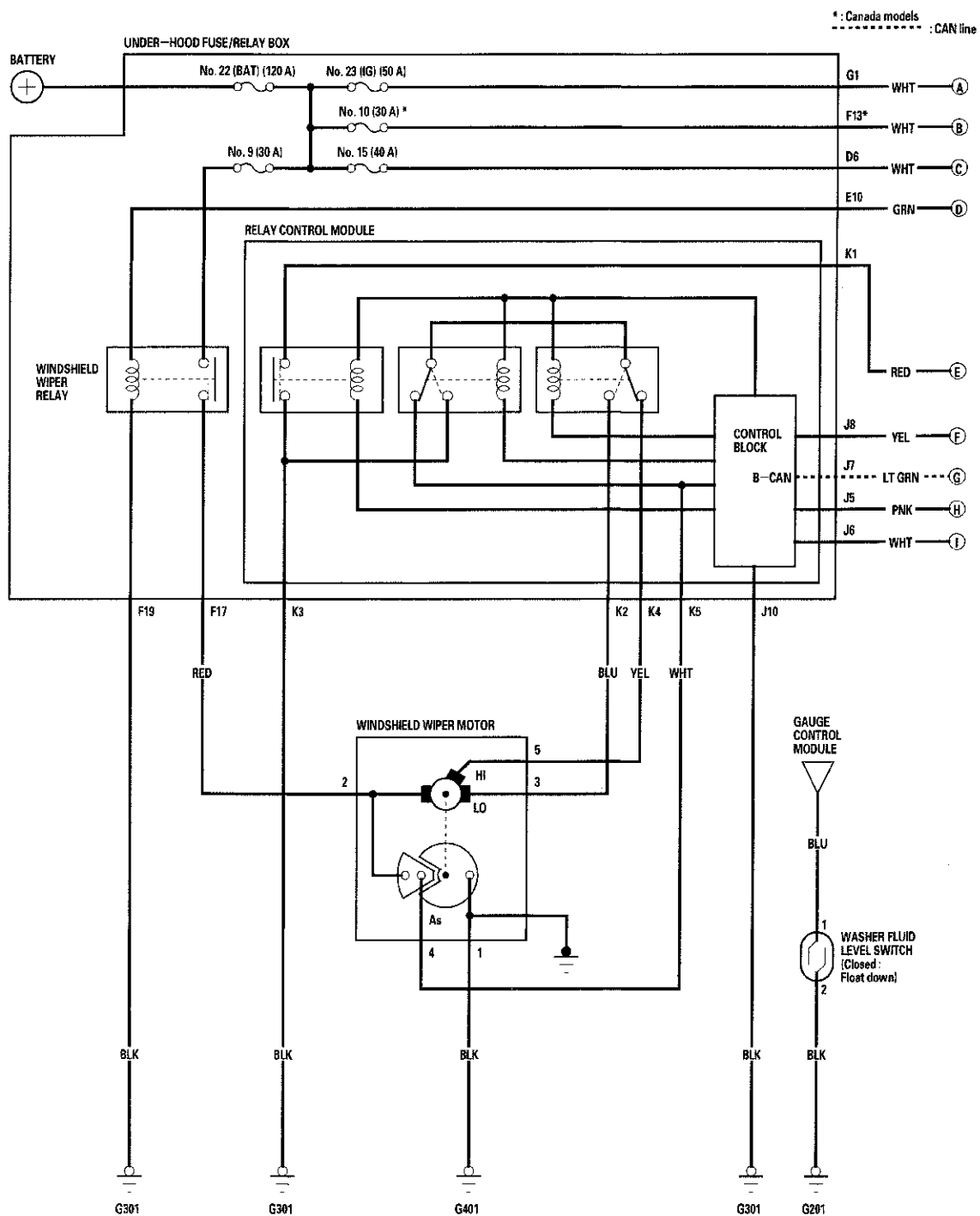
Wipers/Washers

Component Location Index (cont'd)





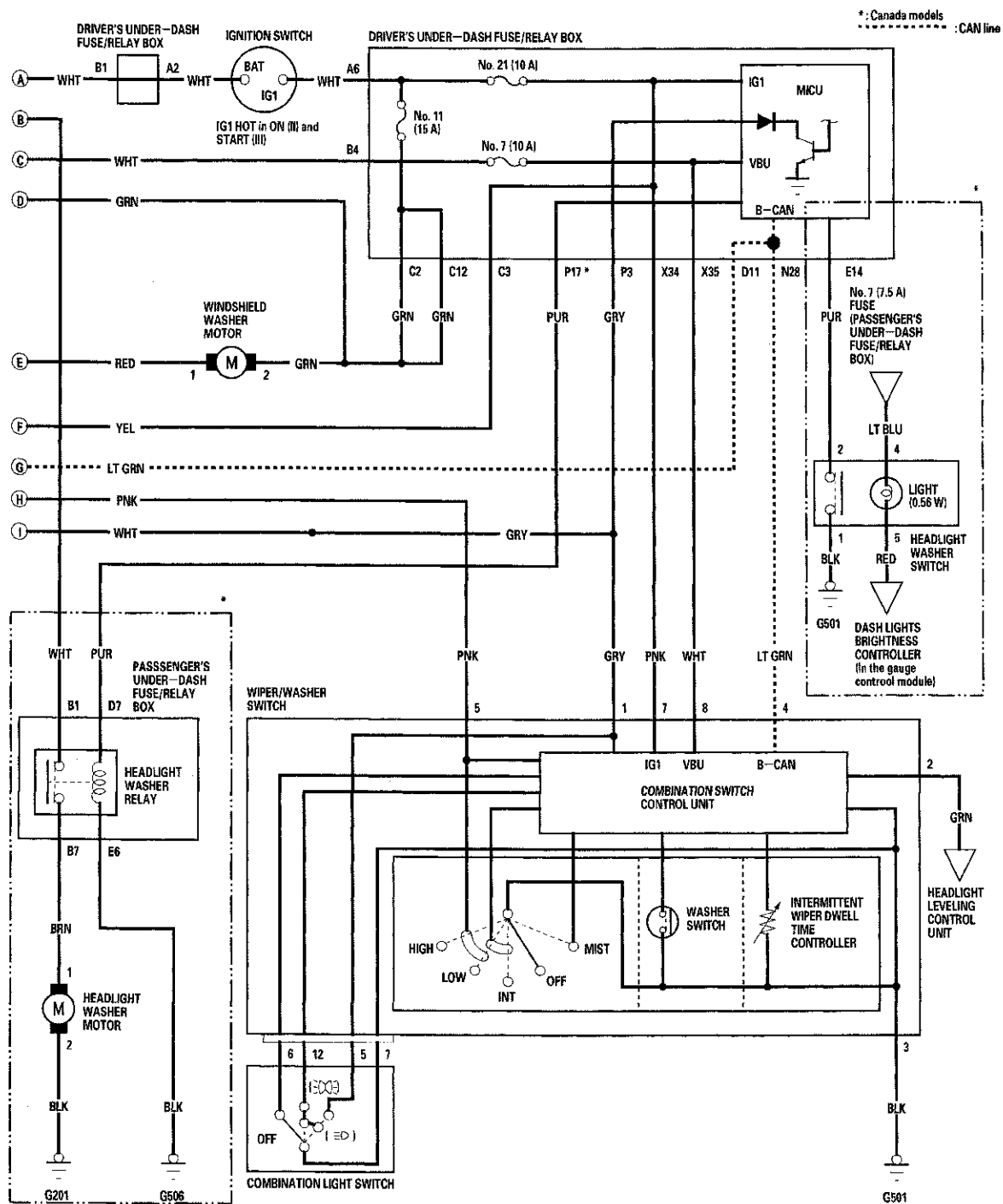
Circuit Diagram



(cont'd)

Wipers/Washers

Circuit Diagram (cont'd)





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 page 22-131).

1. Clear the DTCs with the HDS.
2. Turn the ignition switch to LOCK (0) and then back to 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 menu, and enter 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?

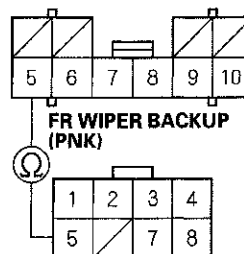
YES—Faulty relay control module; replace the under-hood fuse/relay box (see page 22-84). ■

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 under-hood fuse/relay box connector J (10P) terminal No. 5 and the wiper/washer switch (combination switch control unit) 8P connector terminals No. 5.

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

Wire side of female terminals



WIPER/WASHER SWITCH 8P CONNECTOR

Wire side of female terminals

Is there continuity?

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

NO—Repair an open in the PNK wire. ■

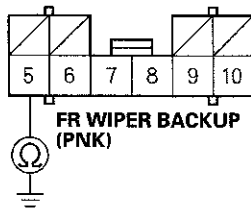
(cont'd)

Wipers/Washers

DTC Troubleshooting (cont'd)

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

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



Wire side of female terminals

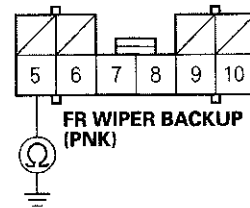
Is there continuity?

YES—Go to step 13.

NO—Faulty relay control module; replace the under-hood fuse/relay box (see page 22-84). ■

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

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



Wire side of female terminals

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 page 22-131).

1. Clear the DTCs with the HDS.
2. Turn the ignition switch to LOCK (0) and then back to 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 system is OK at this time. Check for loose or poor connections. ■

5. Turn the ignition switch to LOCK (0).
6. Test the wiper motor (see page 22-385).

Does the wiper motor operate correctly?

YES—Go to step 7.

NO—Replace the windshield wiper motor and recheck. ■

7. Turn the ignition switch to 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.

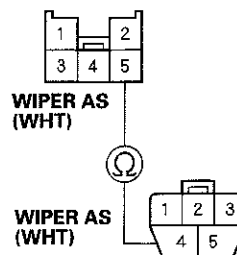
NO—Go to step 12.

9. Disconnect under-hood fuse/relay box connector K (5P) and the windshield wiper motor 5P connector.

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

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

Wire side of female terminals



WINDSHIELD WIPER MOTOR 5P CONNECTOR

Wire side of female terminals

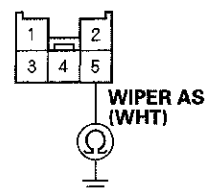
Is there continuity?

YES—Go to step 11.

NO—Repair an open in the WHT wire. ■

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

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



Wire side of female terminals

Is there continuity?

YES—Repair a short in the wire. ■

NO—Faulty relay control module; replace the under-hood fuse/relay box (see page 22-84). ■

(cont'd)

Wipers/Washers

DTC Troubleshooting (cont'd)

12. Turn the ignition switch to LOCK (0) and check the No. 11 (7.5 A) fuse in the driver's under-dash fuse/relay box.

Is the fuse OK?

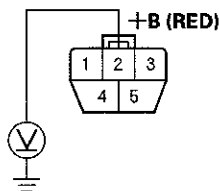
YES—Go to step 13.

NO—Replace the blown fuse and recheck the system. ■

13. Turn the ignition switch to ON (II).

14. Measure the voltage between windshield wiper motor 5P connector terminal No. 2 and body ground.

WINDSHIELD WIPER MOTOR 5P CONNECTOR



Wire side of female terminals

Is there battery voltage?

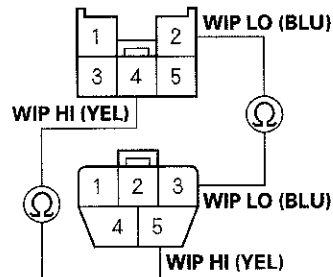
YES—Go to step 15.

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 windshield wiper motor 5P connector terminals No. 3 and No. 5 and under-hood fuse/relay box connector K (5P) terminals No. 2 and No. 4 respectively.

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

Wire side of female terminals



WINDSHIELD WIPER MOTOR 5P CONNECTOR

Wire side of female terminals

Is there continuity?

YES—Faulty relay control module; replace the under-hood fuse/relay box (see page 22-84). ■

NO—Repair an open in the BLU or YEL wire. ■



Wiper/Washer Switch Replacement

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 page 22-131).

1. Clear the DTCs with the HDS.
2. Turn the ignition switch to LOCK (0) and then back to ON (II).
3. Turn the windshield wiper switch to MIST, and wait for at least 2 seconds.
4. Turn the windshield wiper switch OFF, and wait for at least 2 seconds.
5. Turn the windshield wiper switch to INT (AUTO), and wait for at least 2 seconds.
6. Turn the windshield wiper switch to LOW, and wait for at least 2 seconds.
7. Turn the windshield wiper switch in HIGH, and wait for at least 2 seconds.
8. Check for DTCs with the HDS.

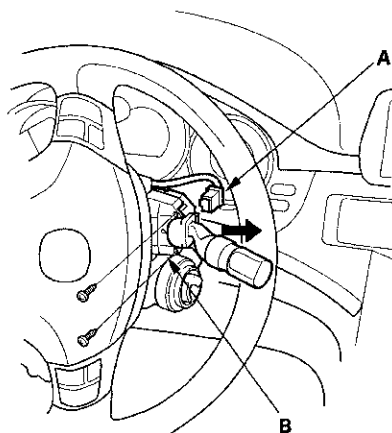
Is DTC B1281, B1282, B1283, and/or B1284 indicated?

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. ■

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 (see page 22-382).

1. Remove the driver's dashboard undercover (see page 20-100), and the driver's dashboard lower cover (see page 20-100).
2. Remove the steering column covers (see page 17-25).
3. Disconnect the combination light switch 12P connector, and dashboard wire harness 8P connector (A) from the wiper/washer switch (B).

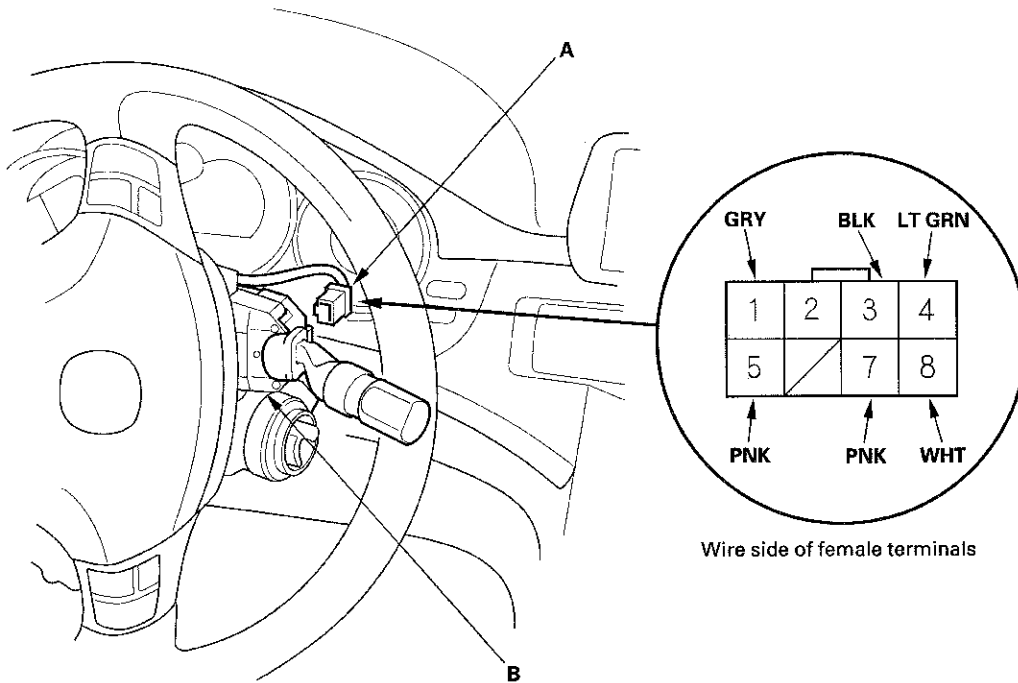


4. Remove the two screws, then slide out the wiper/washer switch.
5. Install the parts in the reverse order of removal.

Wipers/Washers

Wiper/Washer Switch (Combination Switch Control Unit) Input Test

1. Turn the ignition switch to LOCK (0).
2. Remove the driver's dashboard undercover (see page 20-100), and the driver's dashboard lower cover (see page 20-100).
3. Remove the steering column covers (see page 17-25).
4. Disconnect the 8P connector (A) from the wiper/washer switch (B).



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, do these input tests at the following connector.

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

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
5	PNK	Under all conditions	Check for continuity between the terminal No. 5 and under-hood fuse/relay box connector J (10P) terminal No. 5: There should be continuity.	An open in the wire
		Disconnect under-hood fuse/relay box connector J (10P)	Check for continuity between the terminal No. 5 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 terminal No. 4 and driver's under-dash fuse/relay box connector N (45P) terminal No. 28: There should be continuity.	An open in the wire
		Disconnect driver's under-dash fuse/relay box connector N (45P)	Check for continuity between the terminal No. 4 and body ground: There should be no continuity.	A short to ground in the wire
1	GRY	Under all conditions	Check for continuity between the terminal No. 1 and under-hood fuse/relay box connector J (10P) terminal No. 6: There should be continuity.	An open in the wire
		Disconnect under-hood fuse/relay box connector J (10P) and driver's under-dash fuse/relay box connector P (30P)	Check for continuity between the terminal No. 1 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 do these input tests at the following connector.

- If any test indicates a problem, find and correct the cause, then recheck the system.
- If all the input tests prove OK, replace the wiper/washer switch (combination switch control unit).

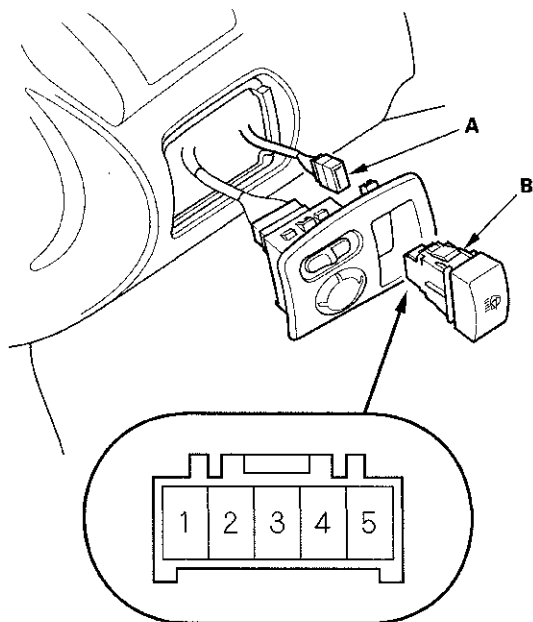
Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
3	BLK	Under all conditions	Measure the voltage to ground: There should be less than 0.2 V.	• Poor ground (G501) • An open in the wire
8	WHT	Under all conditions	Measure the voltage to ground: There should be battery voltage.	• Blown No. 15 (40 A) fuse in the under-hood fuse/relay box • Blown No. 7 (10 A) fuse in the driver's under-dash fuse/relay box • An open in the wire
7	PNK	Ignition switch ON (II)	Measure the voltage to ground: There should be battery voltage.	• Blown No. 21 (10 A) fuse in the driver's under-dash fuse/relay box • An open in the wire

Wipers/Washers

Headlight Washer Switch Test/Replacement

Canada models

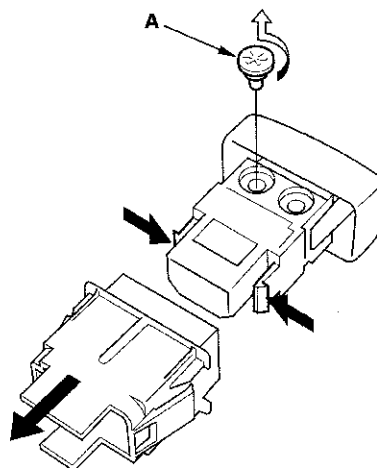
1. Carefully pry the switch panel out from the dashboard.
2. Disconnect the 5P connector (A) from the headlight washer switch (B).



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

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

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



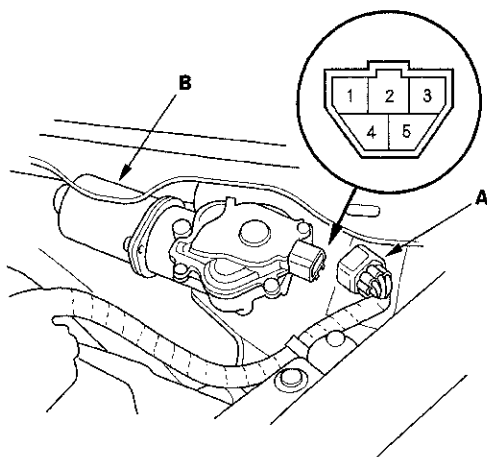
5. Install the parts in the reverse order of removal.

Wiper Motor Test

1. Open the hood, and remove the wiper arms (see page 22-386).

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

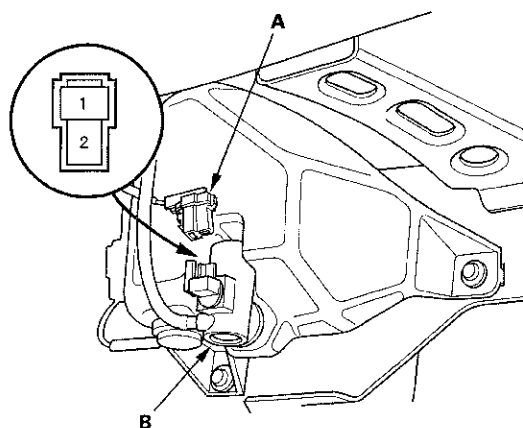
2. Remove the hood seal and cowl covers.
3. Disconnect the 5P connector (A) from the wiper motor (B).



4. Test the motor by connecting battery power to terminal No. 2 and grounding terminal No. 3 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 terminal No. 2 and grounding terminal No. 5 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 terminals No. 1 and No. 4, 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. Pull back the front section of the right front inner fender (see page 20-176).
2. Disconnect the 2P connector (A) from the washer motor (B).

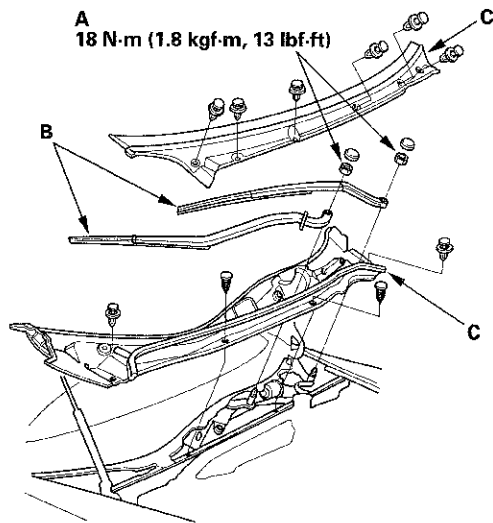


3. Test the motor by connecting battery power to terminal No. 1 and grounding terminal No. 2 of the washer motor. The motor should run.
 - If the motor does not run or fails to run smoothly, replace it.
 - If the motor runs smoothly, but little or no washer fluid is pumped, check for a disconnected or blocked washer hose, or a clogged washer motor outlet.

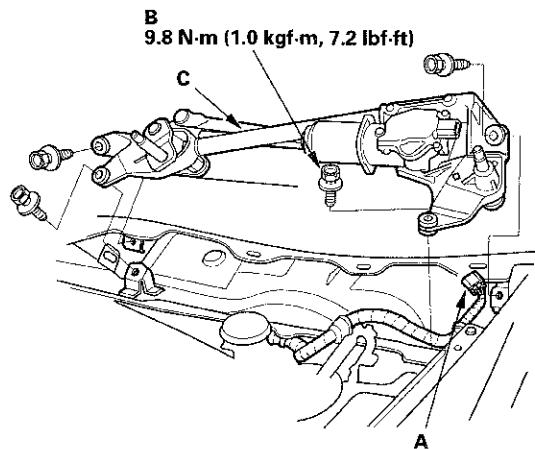
Wipers/Washers

Wiper Motor Replacement

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

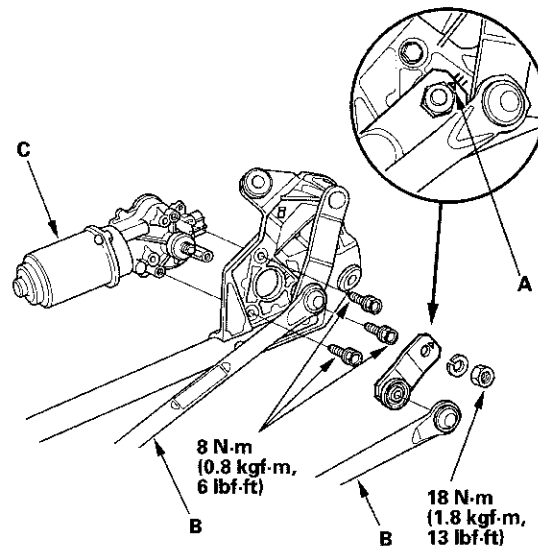


3. Remove the cowl covers (C).
4. Disconnect the 5P connector (A) from the wiper motor.



5. Remove the four bolts (B) and wiper linkage assembly (C).

6. Make sure the mark (A) of the link to show the original adjustment. Separate the windshield wiper linkage (B) from the wiper motor (C).



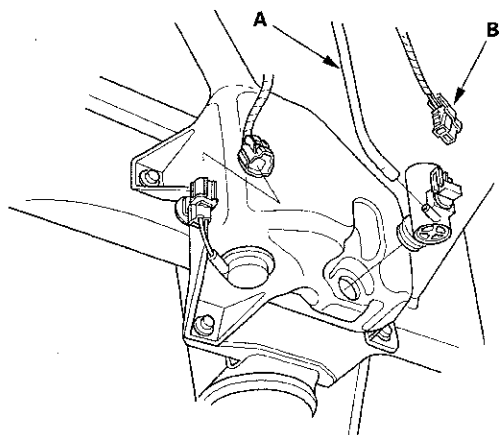
7. Install the parts in the reverse order to removal, and note these items:

- 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.

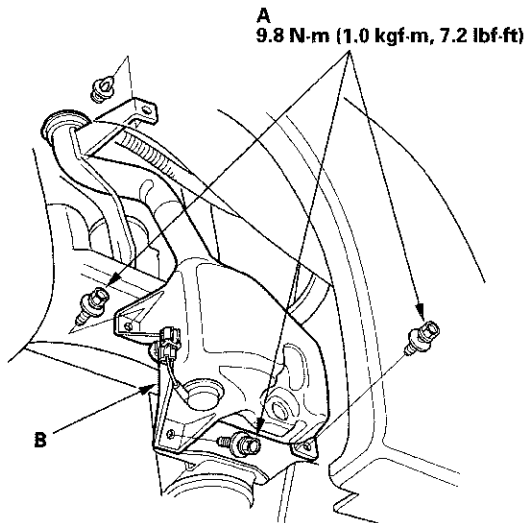


Washer Reservoir Replacement

1. Pull back the front section of the right front inner fender (see page 20-176).
2. Disconnect the washer tube (A) and washer motor 2P connector (B).



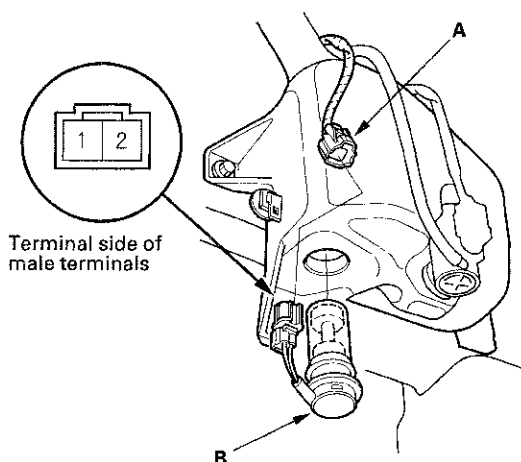
3. Remove the clip and three bolts (A), then remove the washer reservoir (B).



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

Washer Fluid Level Switch Test

1. Pull back the front section of the right front inner fender (see page 20-176).
2. Disconnect the 2P connector (A) from the washer fluid level switch (B).



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

NOTE: Fluid may flow out of the opening.

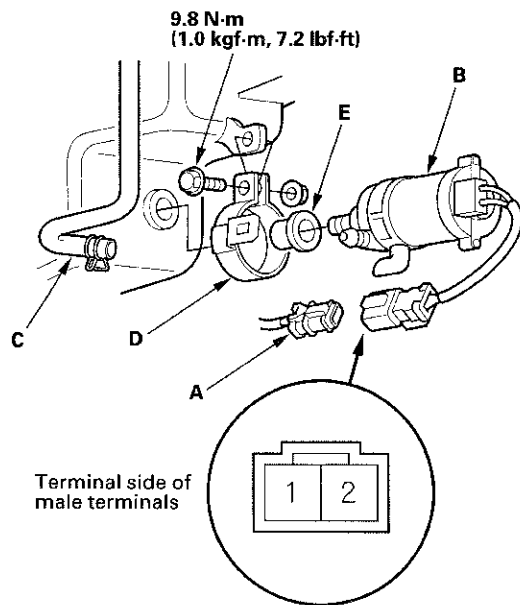
4. Check for continuity between terminals No. 1 and No. 2 in each float position.
 - There should be continuity when the float is down.
 - There should be no continuity when the float is up.
5. If the continuity is not as specified, replace the switch.

Wipers/Washers

Headlight Washer Motor Test/Replacement

Canada models

1. Pull back the front section of the right front inner fender (see page 20-176).
2. Disconnect the 2P connector (A) from the washer motor (B).

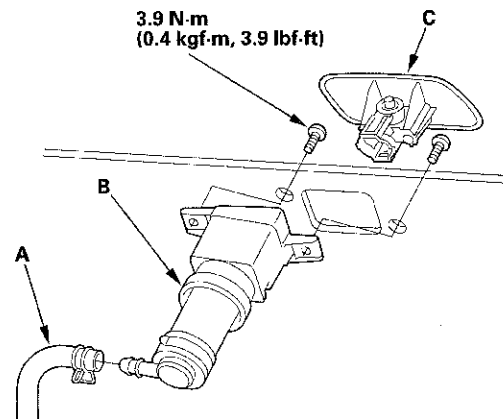


3. Test the motor by connecting battery power to terminal No. 1 and grounding terminal No. 2 of the headlight washer motor. The motor should run.
 - If the motor does not run smoothly, replace it.
 - If the motor runs smoothly, but little or no washer fluid is pumped, check for a disconnected or blocked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

Headlight Washer Nozzle Replacement

Canada models

1. Remove the front bumper (see page 20-149), and disconnect the headlight washer tube from the headlight washer motor.
2. Disconnect the headlight washer tube (A) from the headlight washer nozzle (B).



3. Remove the headlight washer nozzle cover (C).
4. Remove the 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.



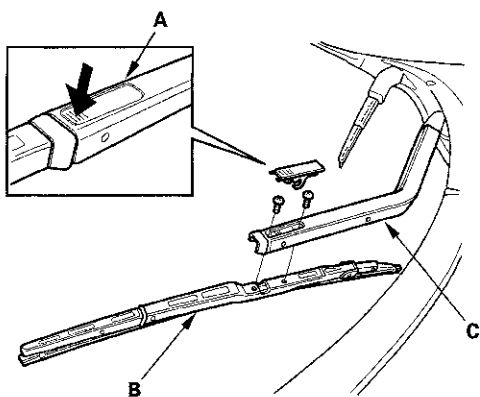
Wiper Blade Replacement

1. Adjust the wiper arms to the winter position (see page 22-390), then raise the wiper arms off the windshield.

NOTE:

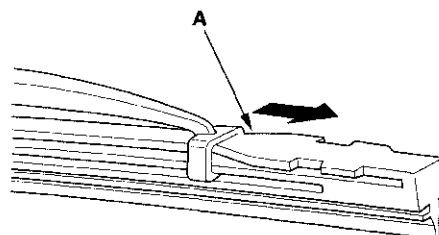
- Lift the driver's side first.
- Do not open the hood when the wiper arms are raised.

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).

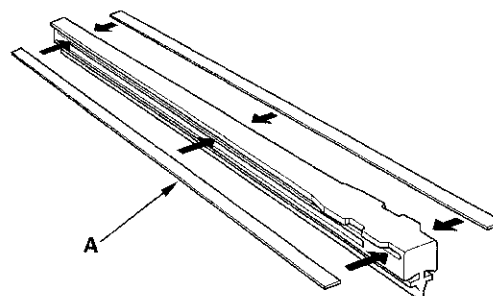


3. Disconnect the blade assembly (B) from the wiper arm (C) by removing the two screws from the arm.

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.



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.



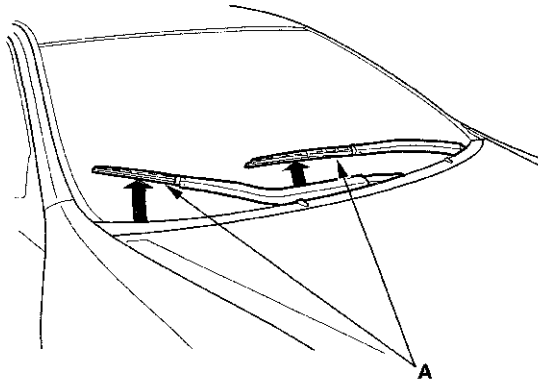
6. Install the wiper blades onto the wiper arms in the reverse order of removal.
7. Check the wiper operation, if the blades slip, turn the wiper switch OFF, and reinstall the wiper blades securely.

Wipers/Washers

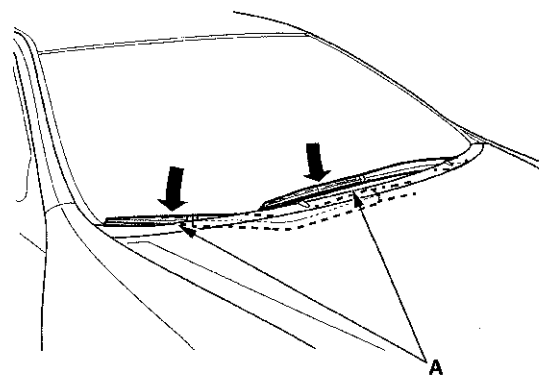
Wiper Arm/Nozzle Adjustment

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.

Winter position



Summer position



Wiper arms stop position

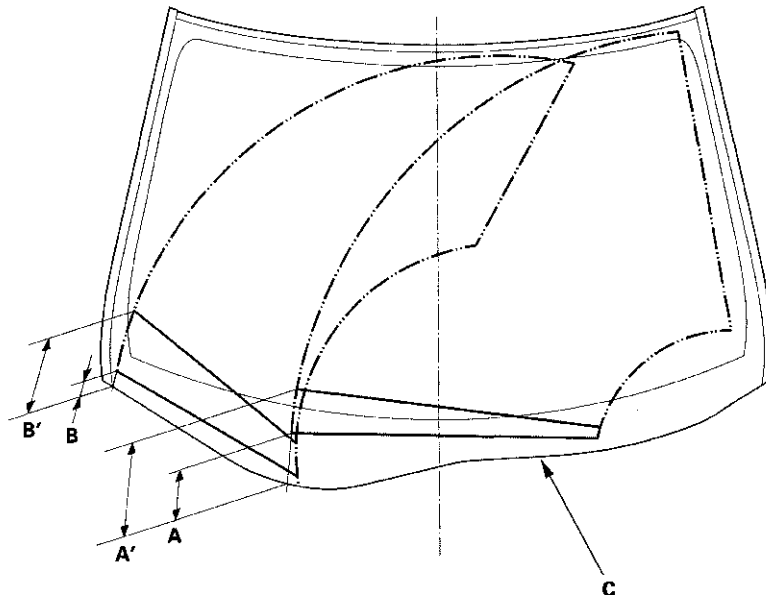
1. When the wiper arms stop at the automatic stop position, confirm the wiper arms are at the standard position.

Normal position (Summer position)

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

Winter position

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

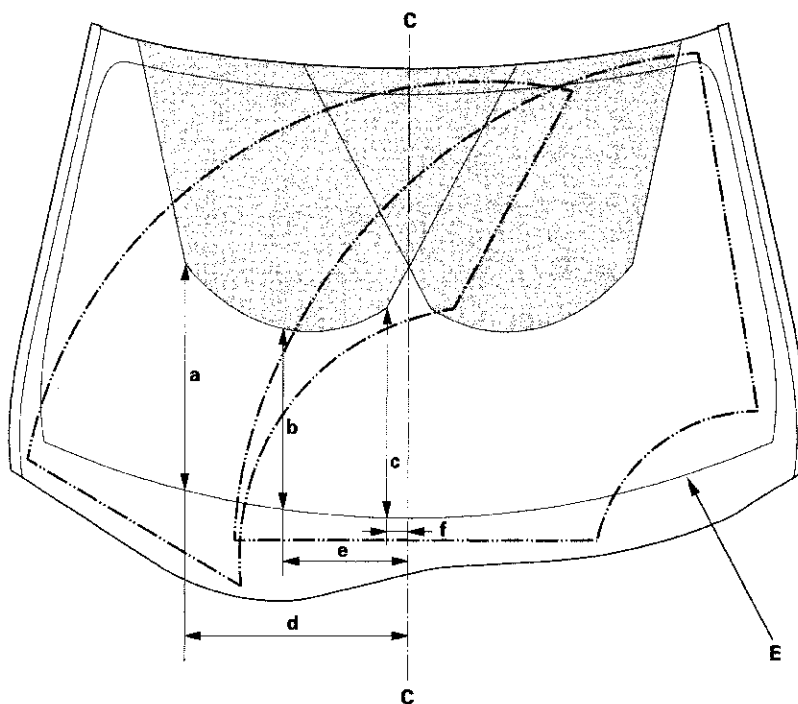


Washer nozzle position

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)

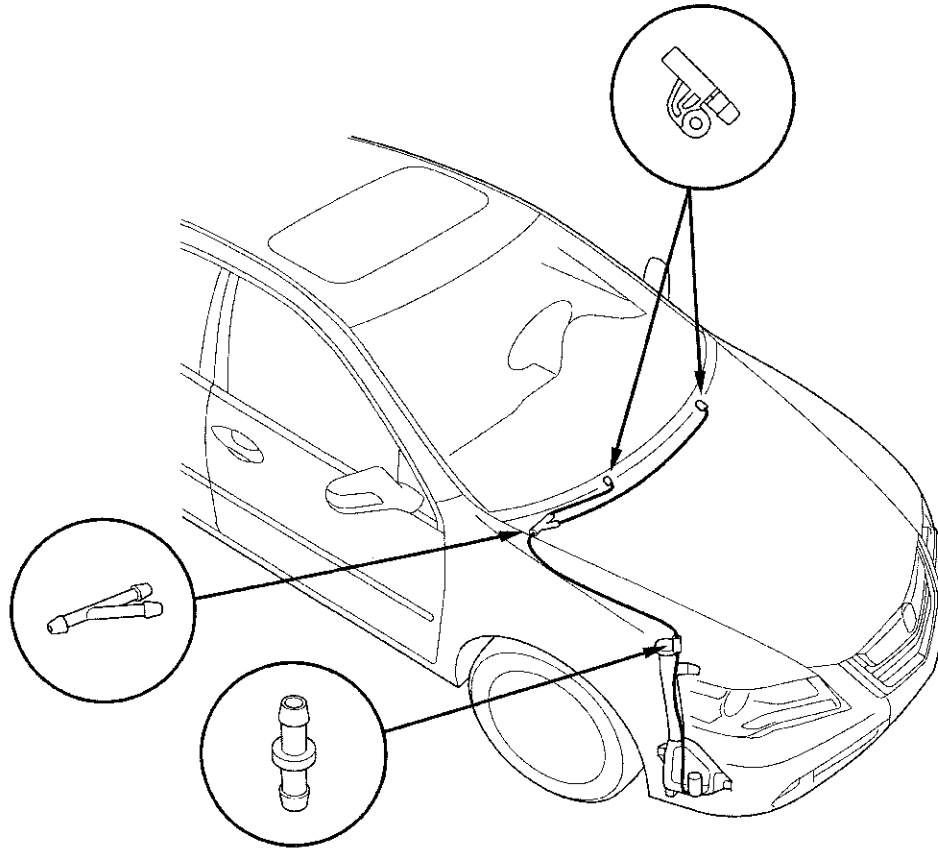


Wipers/Washers

Washer Tube Replacement

Windshield

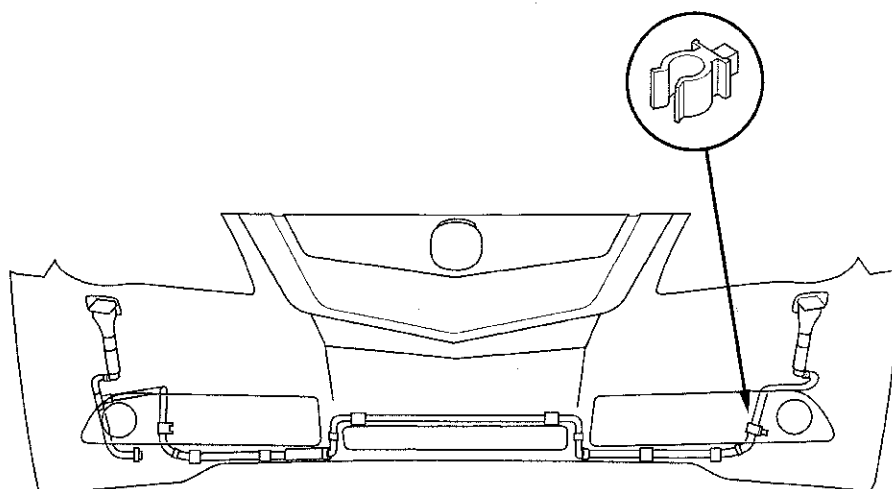
1. Remove the right inner fender (see page 20-176).
2. Remove the windshield washer nozzles and clips, then remove the tube.



3. Install the parts 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 page 20-149).
2. Remove the tube, mounting bolts and washer nozzles.



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