

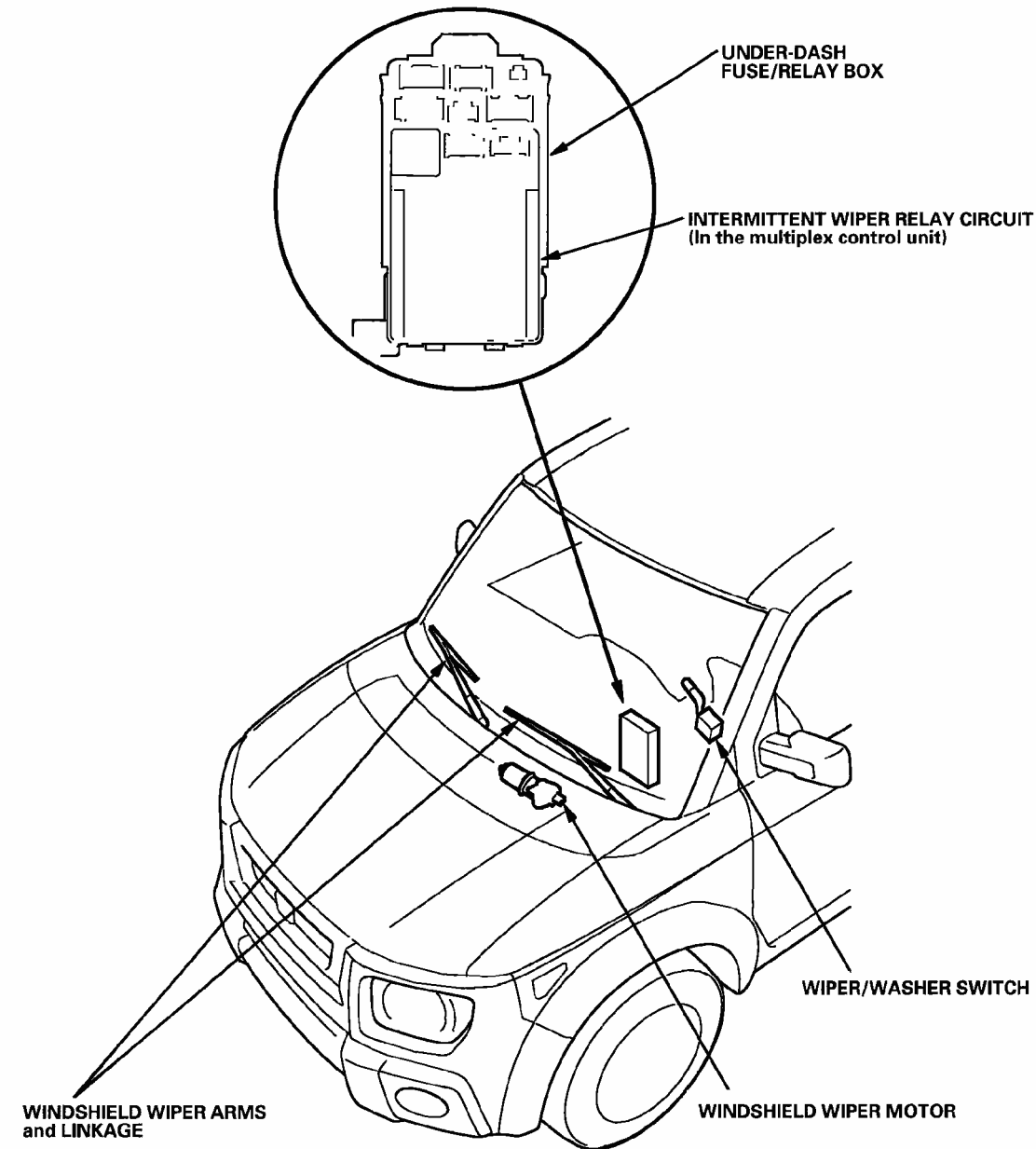
2004 Honda Element DX

2003-06 ACCESSORIES & EQUIPMENT Wipers/Washers - Element

2003-06 ACCESSORIES & EQUIPMENT

Wipers/Washers - Element

COMPONENT LOCATION INDEX

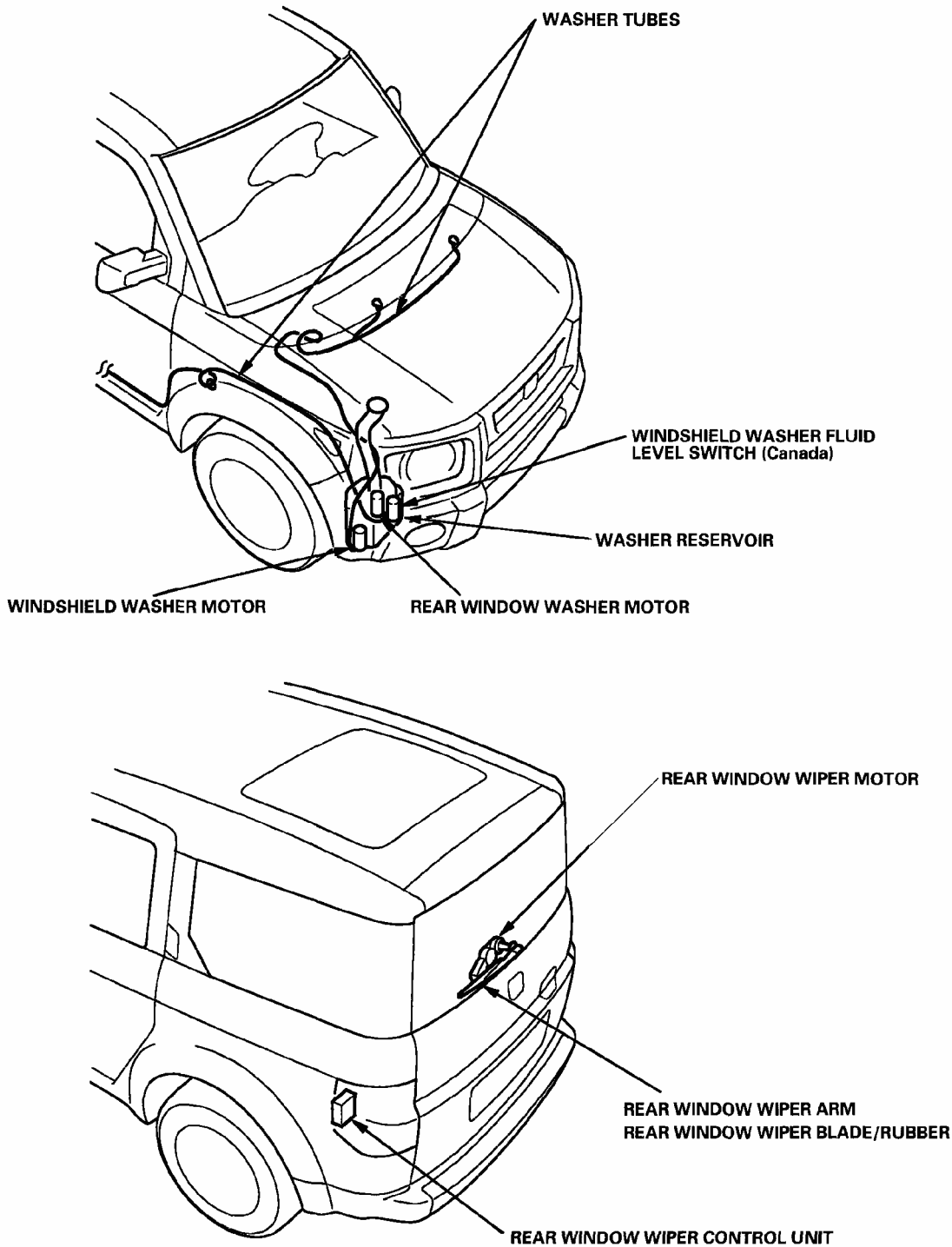


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**Fig. 1: Identifying Wipers And Washer Component Location (1 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.**

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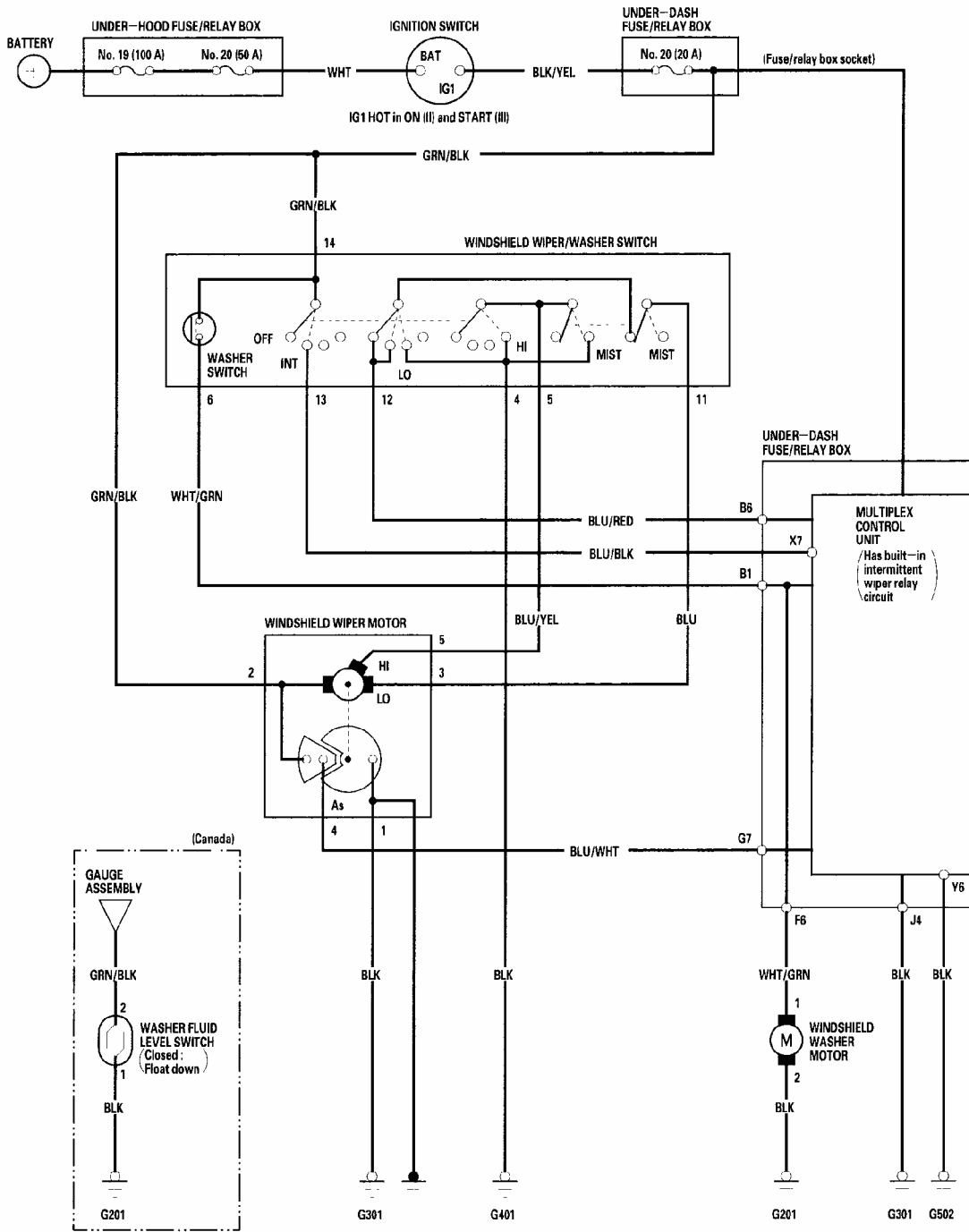
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Fig. 2: Identifying Wipers And Washer Component Location (2 Of 2)
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CIRCUIT DIAGRAM - WINDSHIELD

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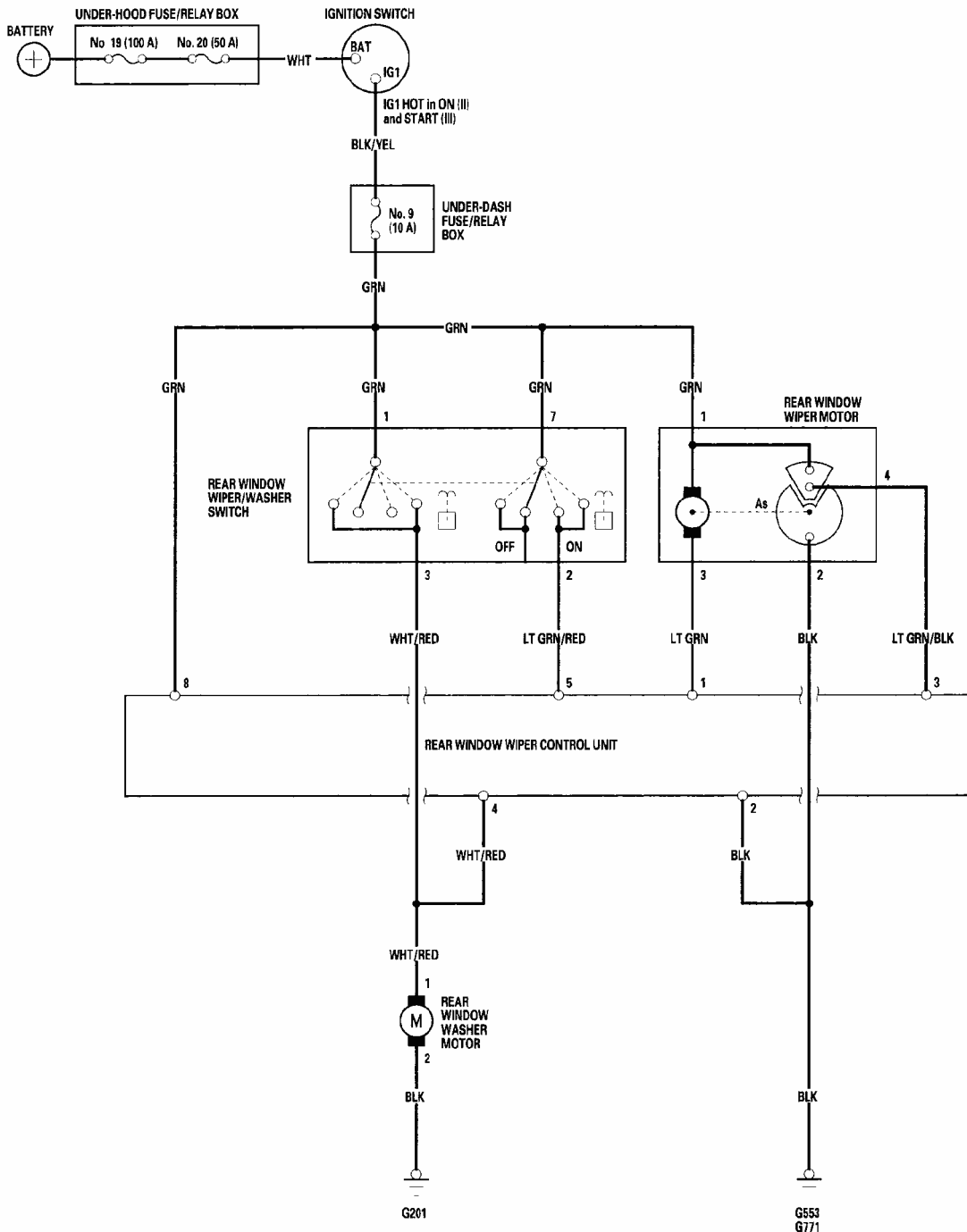
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Fig. 3: Wiper And Washer Circuit Diagram - Windshield
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

CIRCUIT DIAGRAM - REAR WINDOW

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Fig. 4: Wipers And Washer Circuit Diagram - Rear Window
Courtesy of AMERICAN HONDA MOTOR CO., INC.

WIPER/WASHER SWITCH TEST/REPLACEMENT

1. Remove 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 14P connector (A) from the wiper/washer switch (B).

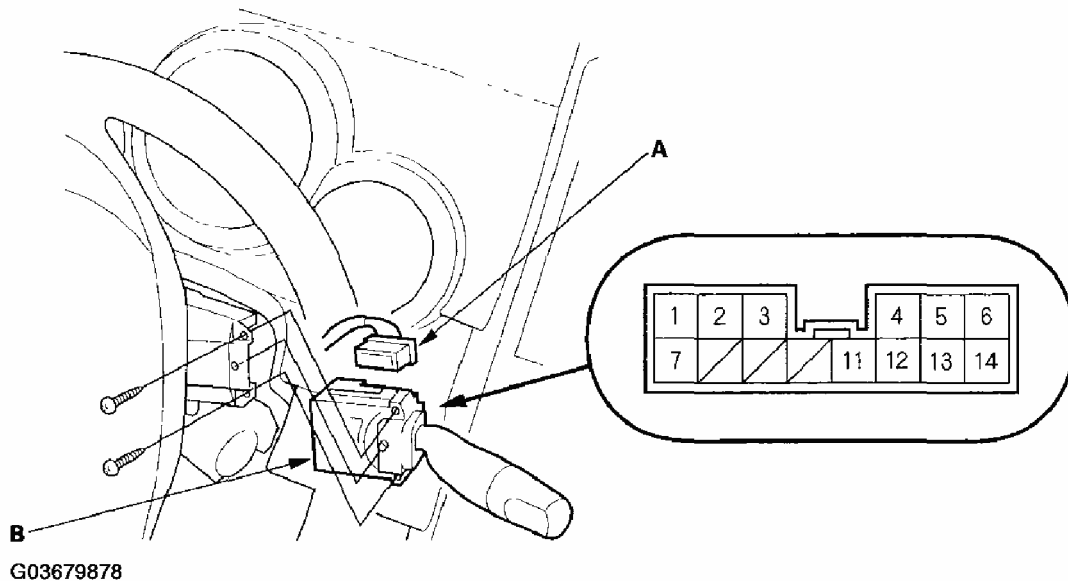


Fig. 5: Disconnecting Connector From Wiper And Washer Switch
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Remove the two screws, then pull out the wiper/washer switch.
5. Inspect the connector 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, check for continuity between the terminals in each switch position according to the tables. If the continuity is not as specified, replace the switch.

Windshield:

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Terminal Position	4	5	6	11	12	13	14
OFF				○—○			
INT				○—○		○—○	
LO	○—			○			
HI	○—○						
Mist switch ON	○—○						
Washer switch ON			○—				○

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Fig. 6: Wiper/Washer Switch Continuity Table - Windshield
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Rear Window:

Terminal Position	1	2	3	7
Washer switch ON and wiper switch OFF	○—		○	
OFF				
ON		○—		○
Wiper and Washer switch ON	○—	○—	○	○

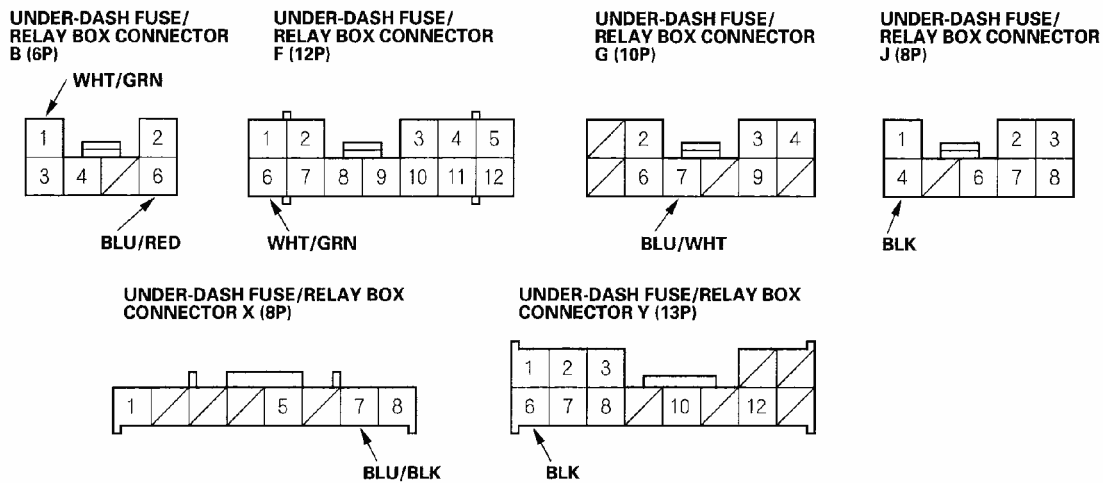
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Fig. 7: Wiper/Washer Switch Continuity Table - Rear Window
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

CONTROL UNIT INPUT TEST

1. Before testing, troubleshoot the multiplex control system (see **TROUBLESHOOTING**).
2. Remove the dashboard lower cover (see **DRIVER'S DASHBOARD LOWER COVER REMOVAL/INSTALLATION**).
3. Disconnect the under-dash fuse/relay box connectors B, F, G, J, X and Y.

NOTE: All connectors are wire side of female terminals.



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Fig. 8: Identifying Under-Dash Fuse/Relay Box Connectors Terminals
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

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 are OK, go to step 5.
5. Reconnect the connectors, 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, the multiplex control unit must be faulty; replace the under-dash fuse/relay box assembly.

TEST CONDITION

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Cavity	Wire	Test condition	Test: Desired result	Possible cause if result is not obtained
J4	BLK	Under all conditions	Check for voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> • Poor ground(G301) • An open in the wire
Y6	BLK	Under all conditions	Check for voltage to ground: There should be less than 1 V.	<ul style="list-style-type: none"> • Poor ground (G502) • An open in the wire
B1	WHT/GRN	Ignition switch ON (II) and washer switch ON	Check for voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 20 (20 A) fuse in the under-dash fuse/relay box • Faulty wiper/washer switch • An open in the wire
X7	BLU/BLK	Ignition switch ON (II) and wiper switch in INT	Check for voltage to ground: There should be battery voltage.	
B6	BLU/RED	Ignition switch ON (II), wiper switch in OFF or INT	Check for voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 20 (20 A) fuse in the under-dash fuse/relay box • Faulty wiper/washer switch • Faulty windshield wiper motor • An open in the wire
G7	BLU/WHT	Ignition switch ON (II) and wipers in park position	Check for voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 20 (20 A) fuse in the under-dash fuse/relay box • Faulty windshield wiper motor • An open in the wire
B1 : F6	WHT/GRN	Jump B1 to F6 terminals, then	Check windshield washer motor	<ul style="list-style-type: none"> • Poor ground (G201)

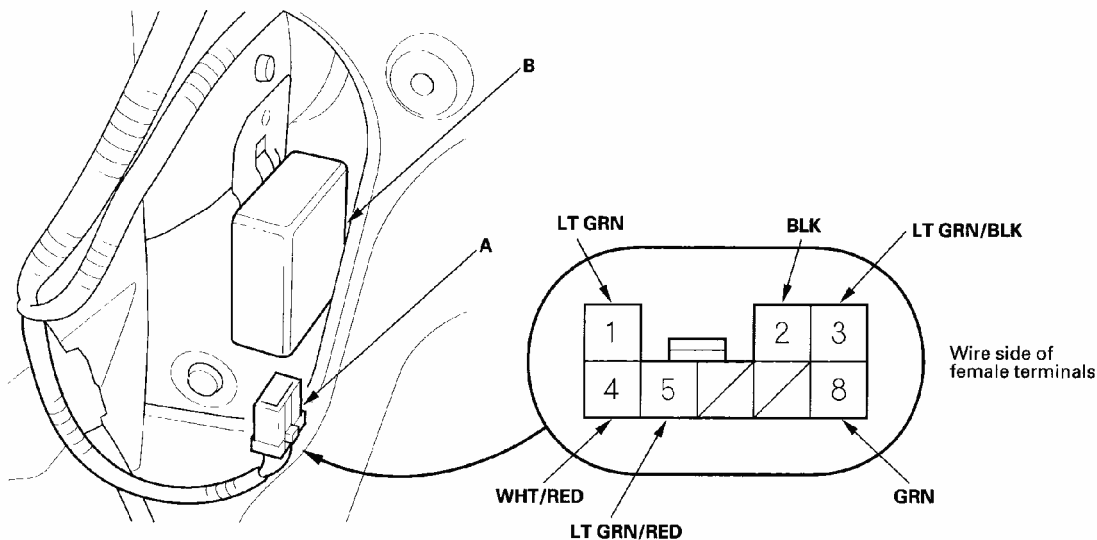
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	ignition switch ON (II) and washer switch ON	operation: The washer motor should run.	<ul style="list-style-type: none">• Blown No. 20 (20 A) fuse in the under-dash fuse/relay box• Faulty wiper/washer switch• Faulty windshield washer motor• Faulty under-dash fuse/relay box• An open in the wire
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REAR WINDOW WIPER CONTROL UNIT INPUT TEST

1. Remove the left rear side trim panel (see **TRIM REMOVAL/INSTALLATION - REAR SIDE AREA**).
2. Disconnect the 8P connector (A) from the rear window wiper control unit (B).



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Fig. 9: Identifying 8P Connector Location And Connector Terminal Identifications

Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. 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.

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- If the terminals look OK, go to step 4.
4. Reconnect the connector to the control unit, 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 5.

TEST CONDITION RECONNECTED

Cavity	Wire	Test condition	Test: Desired result	Possible cause if result is not obtained
8	GRN	Ignition switch ON (ID)	Check for voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 9 (10 A) fuse in the under-dash fuse/relay box • An open in the wire
2	BLK	Under all conditions	Check for continuity to ground: There should be continuity.	<ul style="list-style-type: none"> • Poor ground (G553, G771) • An open in the wire
4	WHT/RED	Ignition switch ON (II) and rear window washer switch ON	Check for voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 9 (10 A) fuse in the under-dash fuse/relay box • Faulty rear window wiper/washer switch • An open in the wire
5	LT GRN/RED	Ignition switch ON (II) and rear window wiper switch ON	Check for voltage to ground: There should be battery voltage.	
3	LT GRN/BLK	Ignition switch ON (II), rear wiper switch OFF, and wiper in park position	Check for voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 9(10 A) fuse in the under-dash fuse/relay box • Faulty rear window wiper motor • An open in the wire

5. Disconnect the 8P connector from the control unit, and make the following test at the connector.
- If the test indicates a problem, find and correct the cause, then recheck the system.
 - If the input test proves OK, the control unit must be faulty; replace it.

TEST CONDITION DISCONNECTED

Cavity	Wire	Test	Test: Desired result	Possible cause if result is not

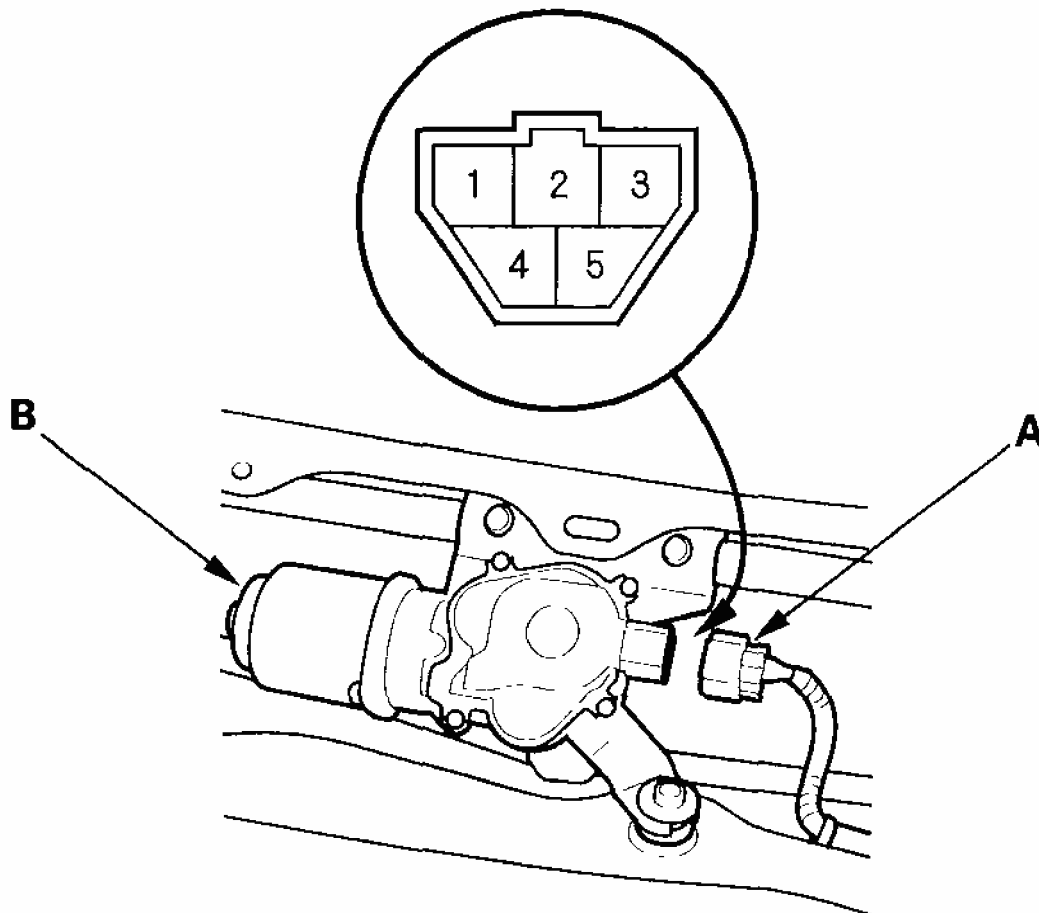
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		condition		obtained
1	LT GRN	Ignition switch ON (ID.	Attach to ground: The rear window wiper motor should run.	<ul style="list-style-type: none">• Blown No. 9 (10 A) fuse in the under-dash fuse/relay box• Faulty rear window wiper motor• An open in the wire

WINDSHIELD WIPER MOTOR TEST

1. Remove the wiper arms, hood seals, and cowl covers (see Windshield Wiper Motor Replacement).
2. Disconnect the 5P connector (A) from the wiper motor (B).



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Fig. 10: Disconnecting 5P Connector From Wiper Motor And Terminal

Identifications

Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Test the motor by connecting battery power to the No. 2 terminal and ground the No. 3 (No. 5) terminal of the wiper motor 5P connector. The motor should run at low (high) speed. If the motor does not run or fails to run smoothly, replace the motor.
4. Connect the battery power to the No. 2 terminal, and ground to the No. 3 and No. 1 terminals of the 5P connector. Then connect an analog voltmeter between the No. 2 (+) terminal and the No. 4 (ground) terminal. When the park switch contacts, the pointer should swing. If not, replace the motor.

REAR WINDOW WIPER MOTOR TEST

1. Open the hatch, and remove the hatch trim panel (see **TRIM REMOVAL/INSTALLATION - HATCH AREA**).
2. Disconnect the 4P connector (A) from the wiper motor (B).

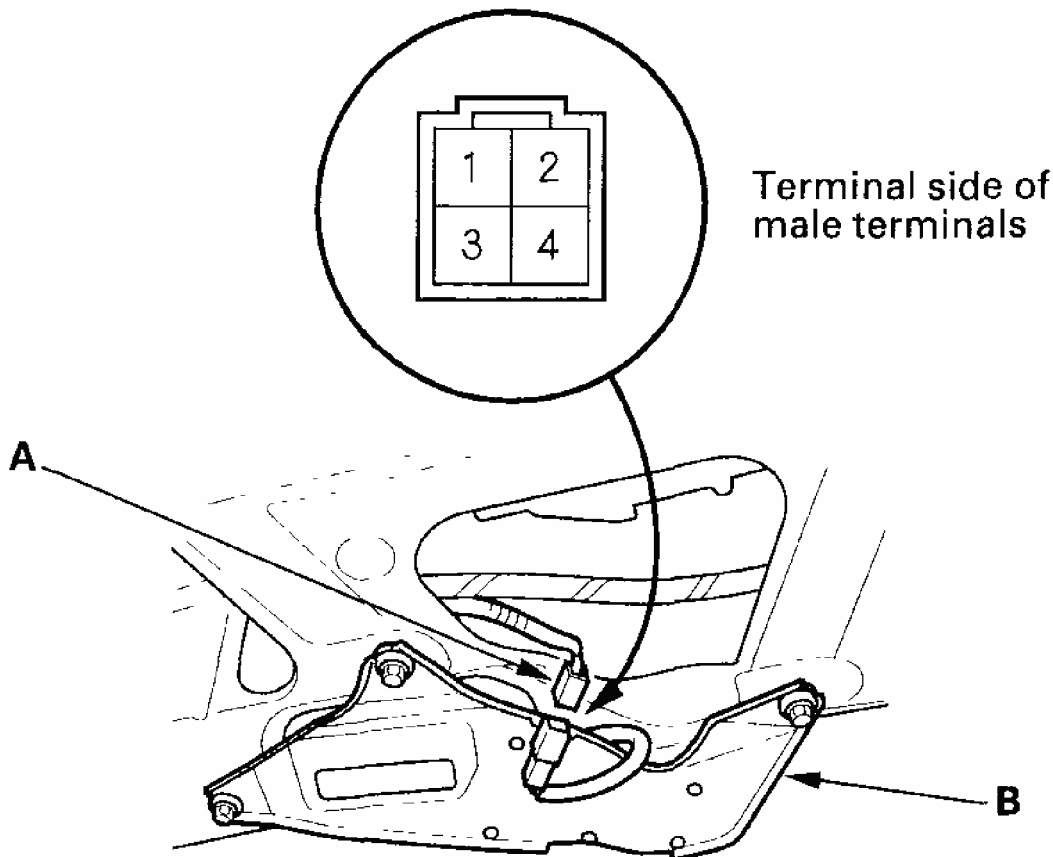


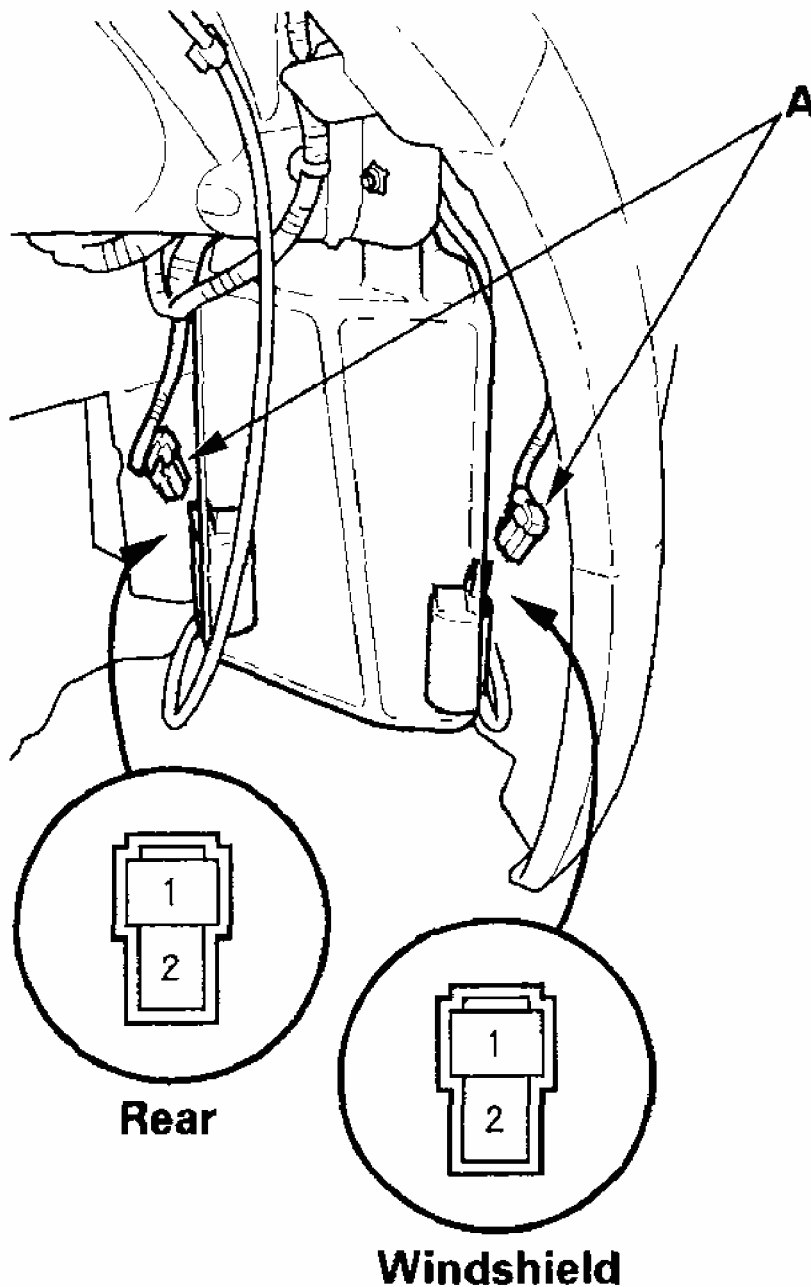
Fig. 11: Disconnecting 4P Connector From Wiper Motor And Terminals
Identifications

Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Test the motor by connecting battery power to the No. 1 terminal and ground the No. 3 terminal of the wiper motor. The motor should run. If the motor does not run or fails to run smoothly, replace the motor.
4. Connect the battery power to the No. 1 terminal, and ground to the No. 2 and No. 3 terminals of the 4P connector. Then connect an analog voltmeter between the No. 1 (+) terminal and the No. 4 (ground) terminal. When the park switch contacts, the pointer should swing. If not, replace the motor.

WASHER MOTOR TEST

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



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Fig. 12: Disconnecting 2P Connectors From Washer Motors And Terminals
Identifications

Courtesy of AMERICAN HONDA MOTOR CO., INC.

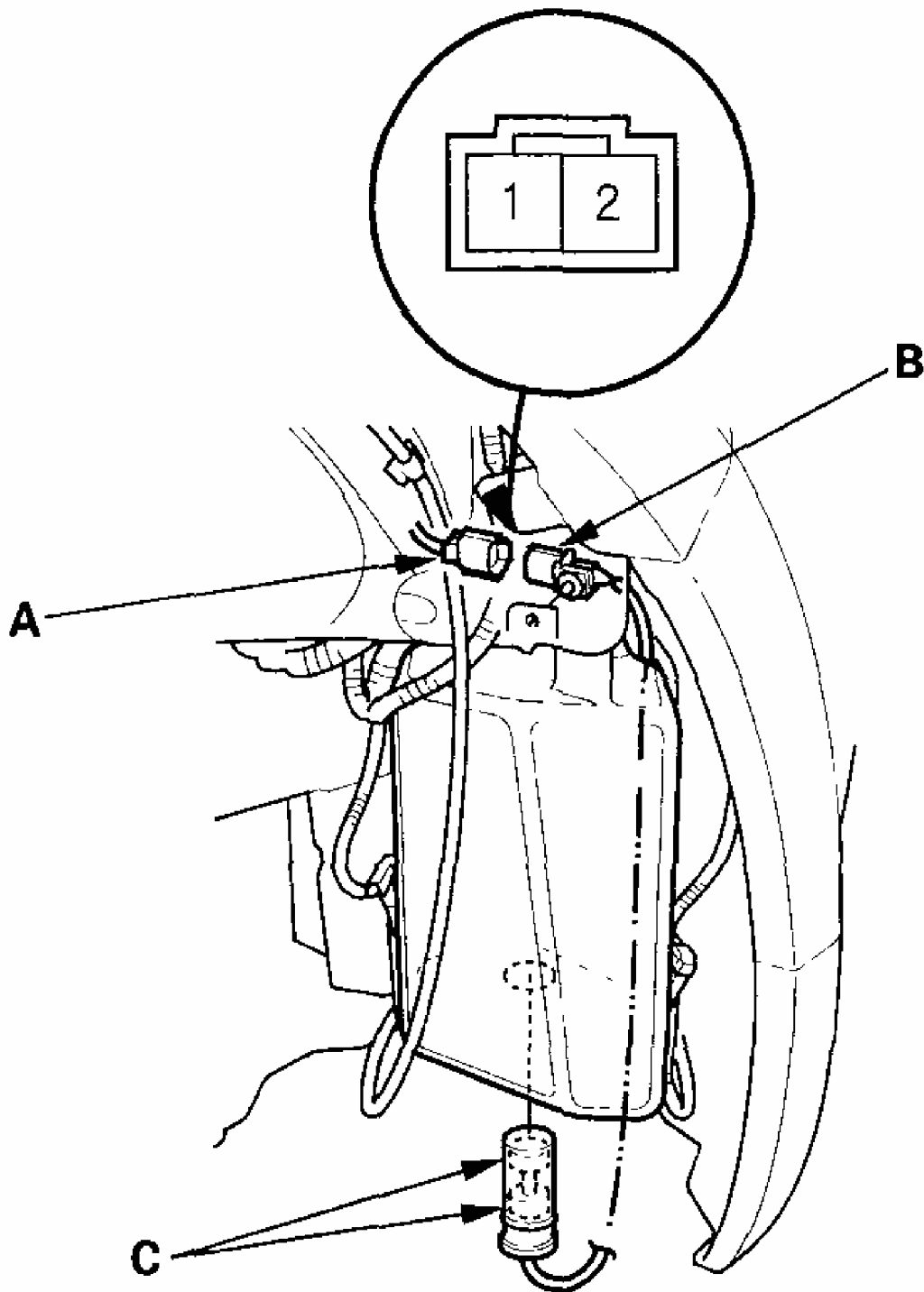
3. Test the motor by connecting battery power to the No. 1 terminal and ground the No. 2 terminal of the washer motor. The motor should run.
 - If the motor does not run or fails to run smoothly, replace it.

- If the motor runs smoothly, but little or no washer fluid is pumped, check for a disconnected or blocked washer hose, or a clogged pump outlet in the motor.

WASHER FLUID LEVEL SWITCH TEST/REPLACEMENT

CANADA

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



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Fig. 13: Disconnecting 2P Connector From Washer Fluid Level Switch And Terminals Identifications

Courtesy of AMERICAN HONDA MOTOR CO., INC.

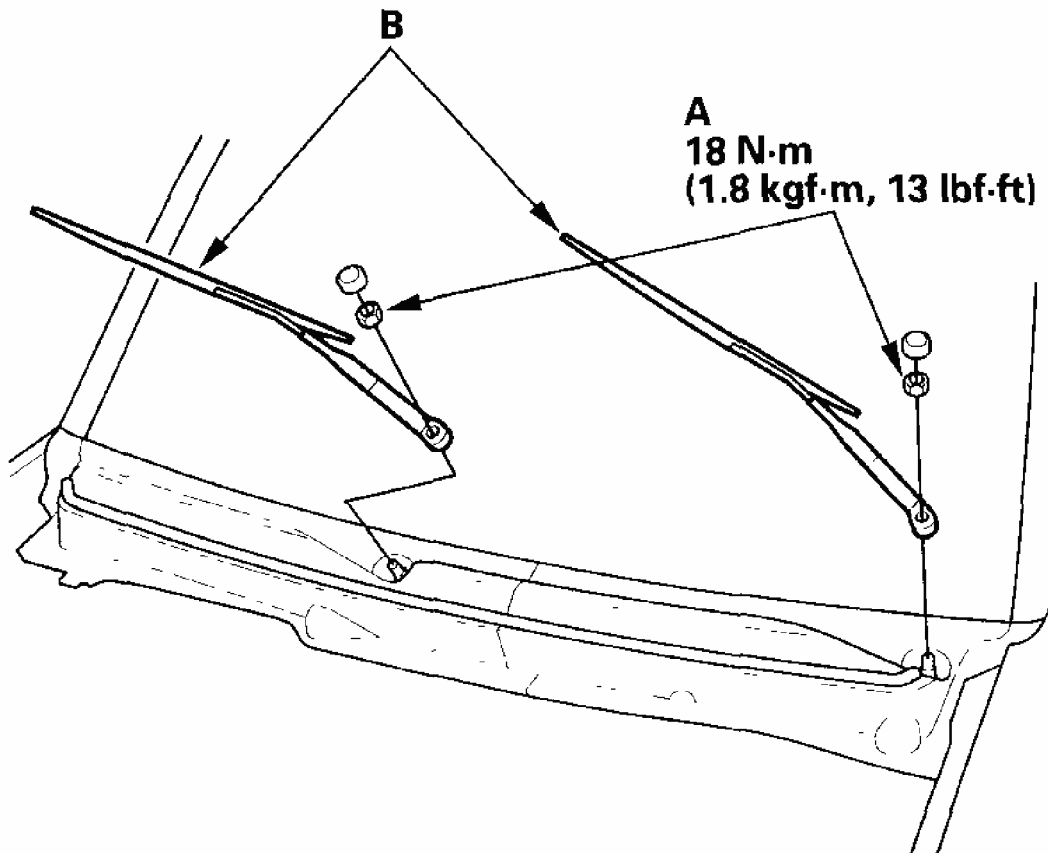
3. Remove the washer fluid level switch from the washer reservoir.

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.

WINDSHIELD WIPER MOTOR REPLACEMENT

1. Remove the nuts (A) and the windshield wiper arms (B).

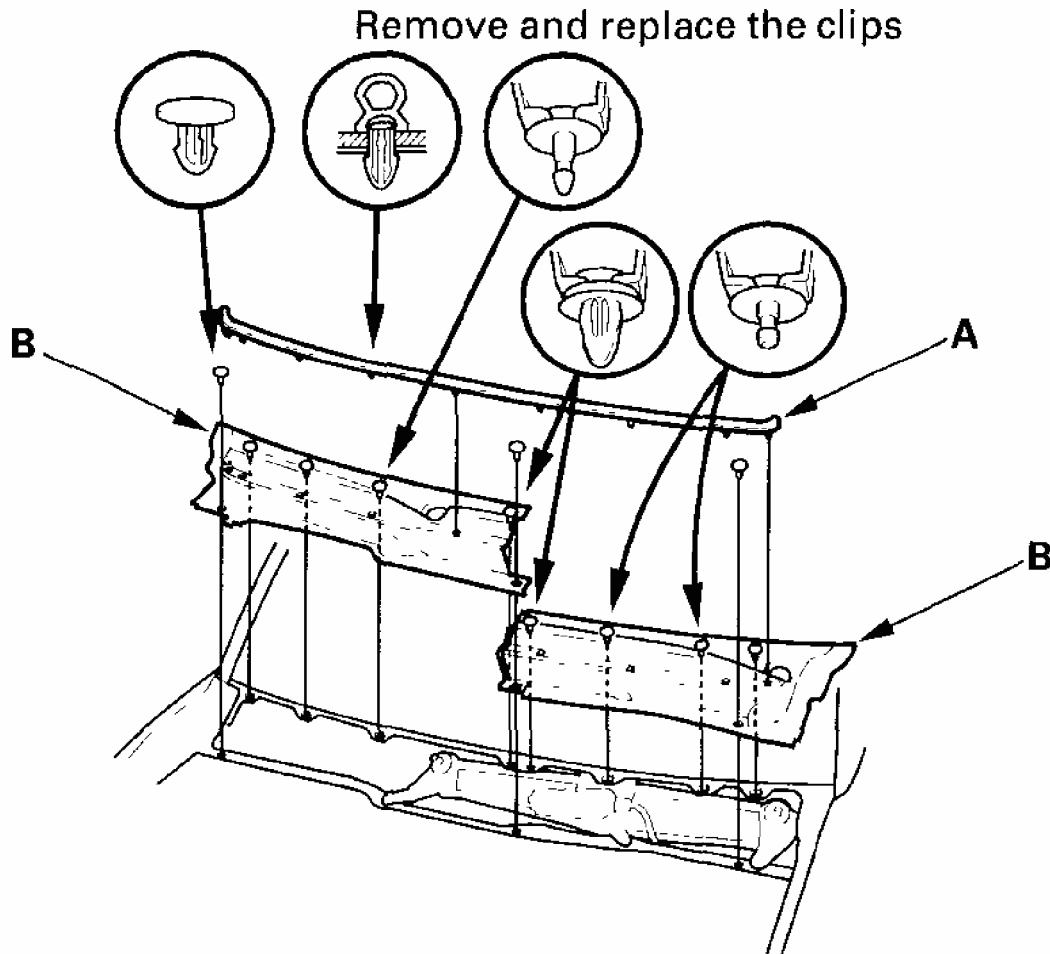


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Fig. 14: Removing Nuts And Windshield Wiper Arms With Specified Torque

Courtesy of AMERICAN HONDA MOTOR CO., INC.

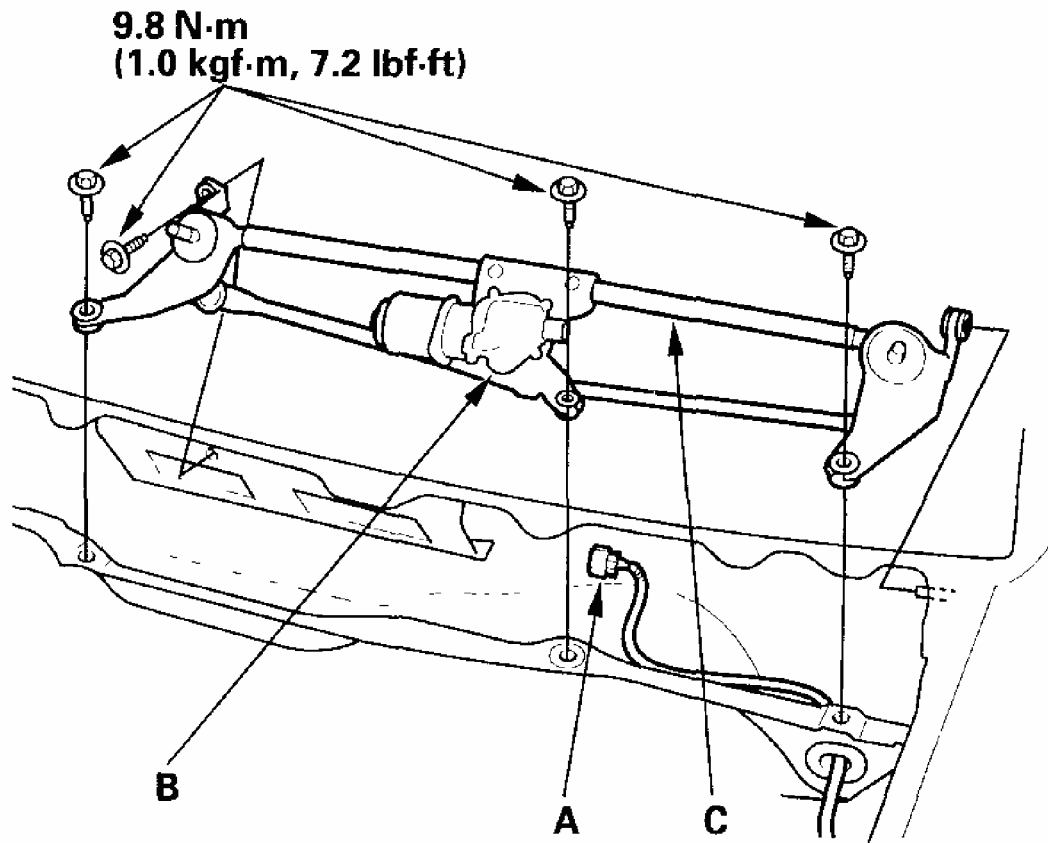
2. Remove the hood seal (A) and cowl covers (B).



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Fig. 15: Removing Hood Seal And Cowl Covers
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Disconnect the 5P connector (A) from the windshield wiper motor (B).

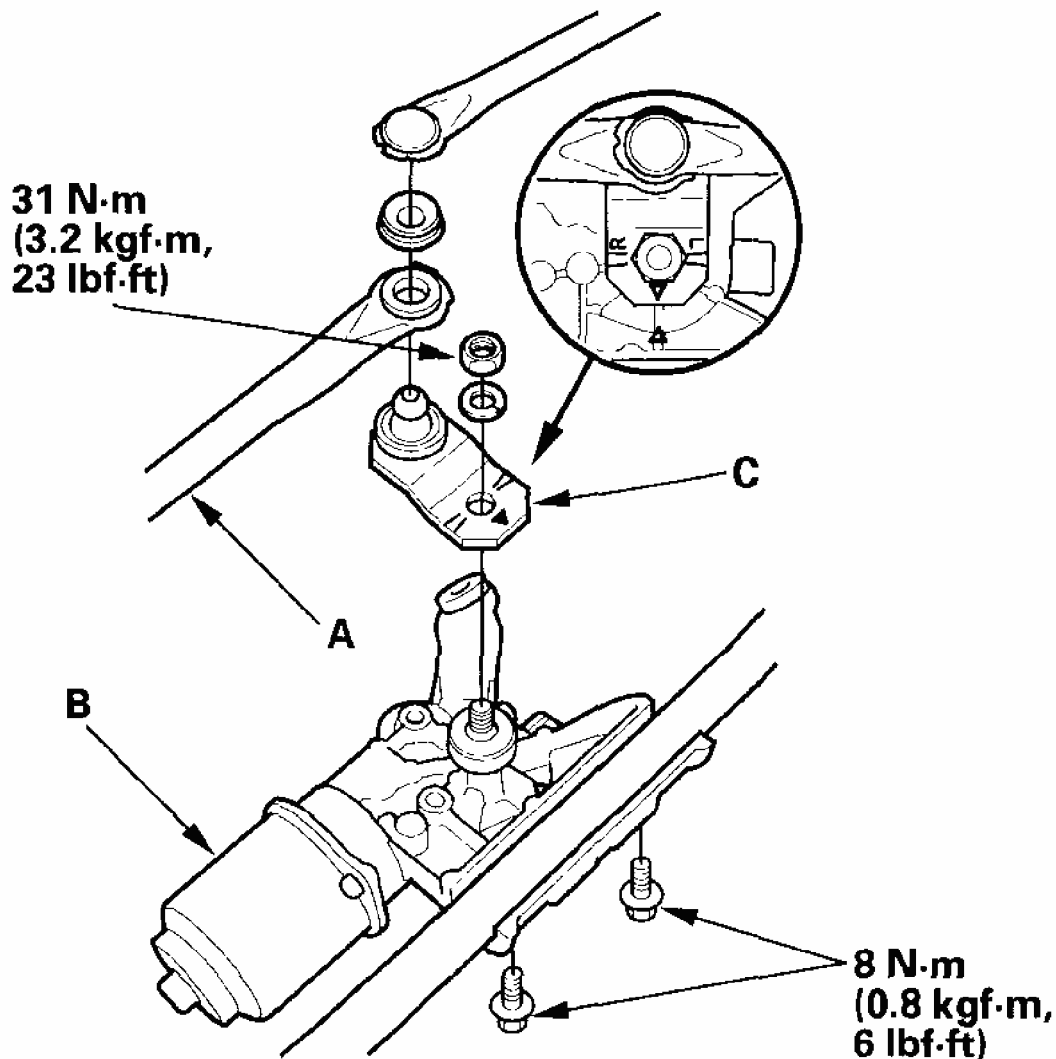


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Fig. 16: Disconnecting 5P Connector From Windshield Wiper Motor With Specified Torque

Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Remove the mounting bolts and the wiper linkage assembly (C).
5. Remove the two mounting bolts and nut from the wiper linkage (A) to remove the wiper motor (B).



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Fig. 17: Removing Wiper Motor Components With Specified Torque
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

6. Align the arrow mark on the wiper link (C) and the arrow mark on the wiper motor to show the original arrangement.
7. Install in the reverse order of 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.
 - Make sure the wiper motor operates properly.

REAR WINDOW WIPER MOTOR REPLACEMENT

1. Remove the cover (A), mounting nut (B), rear window wiper arm (C), wiper shaft cap (D), nut (E), and washer (F).

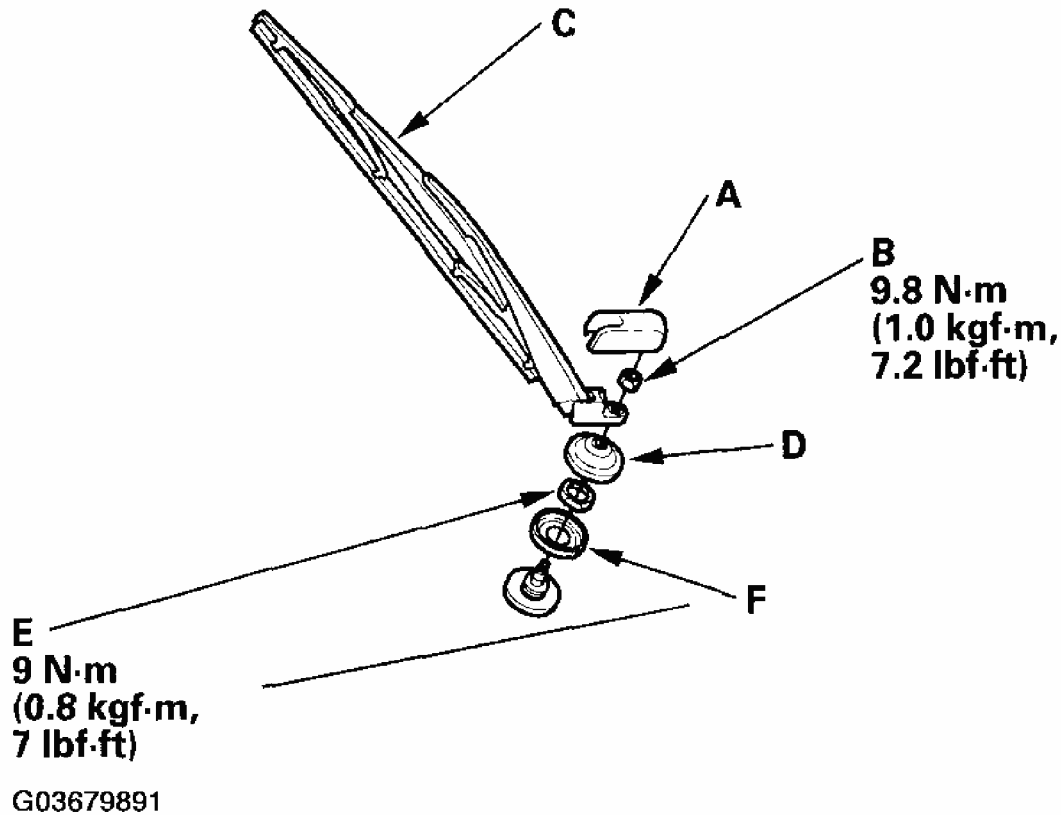
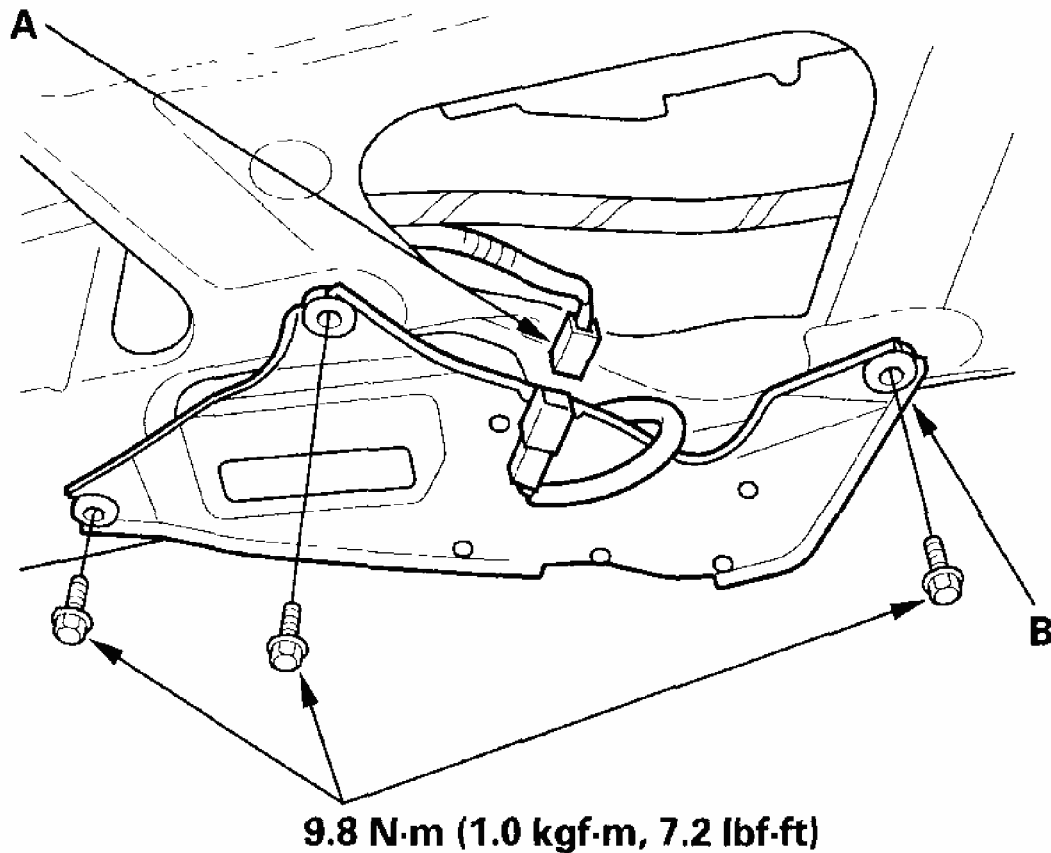


Fig. 18: Removing Rear Window Wiper Motor Components With Specified Torque

Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Open the tailgate and remove the tailgate lower trim panel (see **TRIM REMOVAL/INSTALLATION - TAILGATE AREA**).
3. Disconnect the 4P connector (A) from the rear window wiper motor (B).



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Fig. 19: Disconnecting 4P Connector From Rear Window Wiper Motor With Specified Torque
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Remove the mounting bolts and the wiper motor.
5. Install in the reverse order of removal.

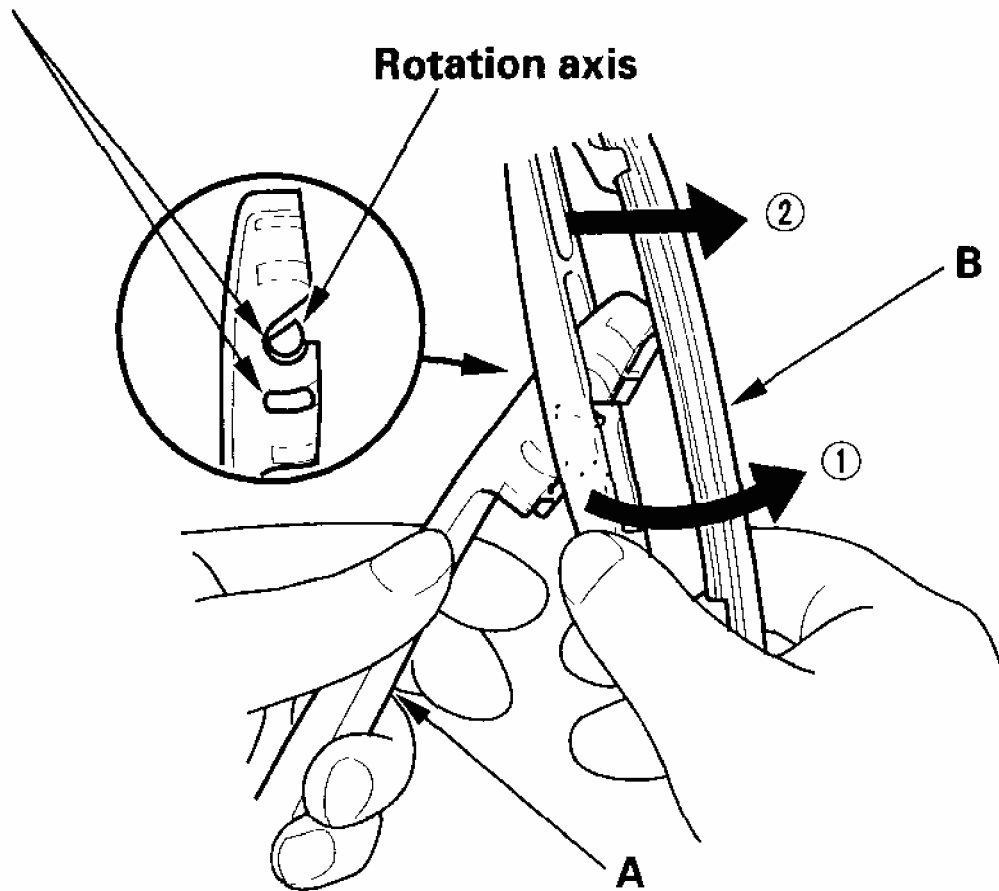
REAR WINDOW WIPER BLADE REPLACEMENT

NOTE: Take care not to damage or deform the rear window wiper blade.

1. Raise the rear window wiper arm from the rear window.
2. Hold the rear window wiper arm (A) and blade assembly (B) as shown.

Clean with installation

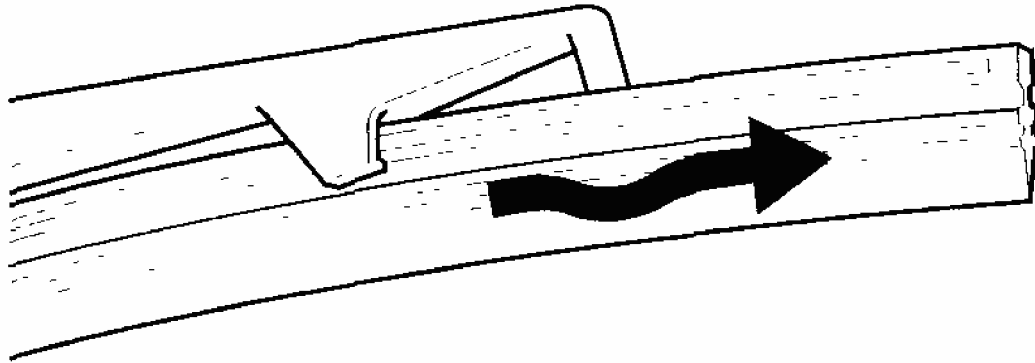
Rotation axis



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Fig. 20: Removing Rear Window Wiper Blade From Rear Window Wiper Arm
Courtesy of AMERICAN HONDA MOTOR CO., INC.

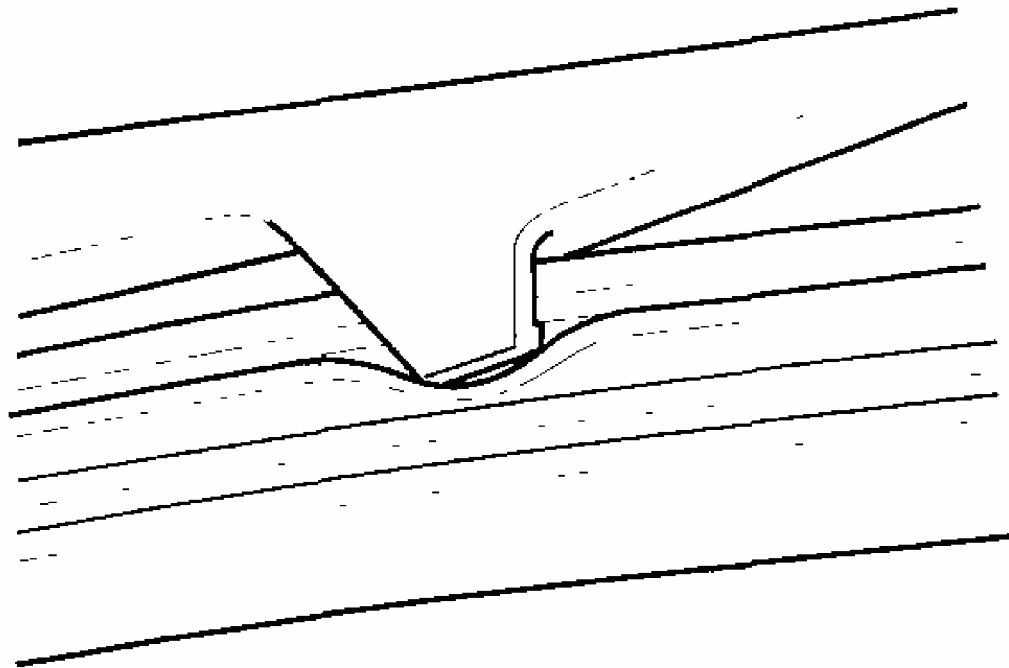
3. Rotate the rear window wiper blade assembly, and then remove it from the rear window wiper arm.
4. Remove the rear window wiper blade from the wiper blade holder.



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Fig. 21: Removing Rear Window Wiper Blade From Wiper Blade Holder
Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Install in the reverse order of removal, and note these items:
 - Clean the rear window wiper arm and blade holder, then install the wiper blade.
 - Make sure wiper blade is set securely.
 - Do not pinch the wiper blade.



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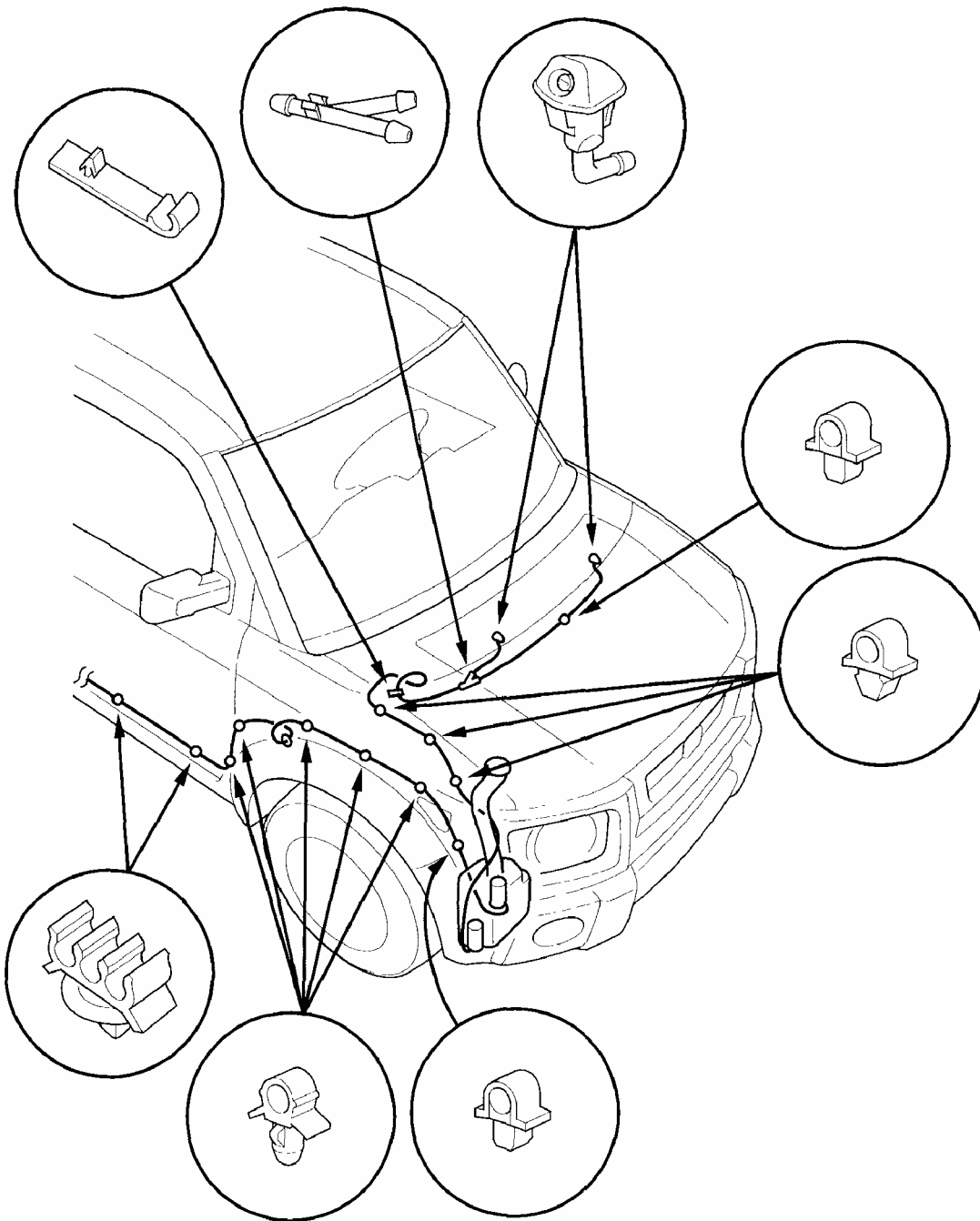
Fig. 22: Identifying Rear Window Wiper Arm And Blade Installation Procedure
Courtesy of AMERICAN HONDA MOTOR CO., INC.

WASHER TUBE REPLACEMENT

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

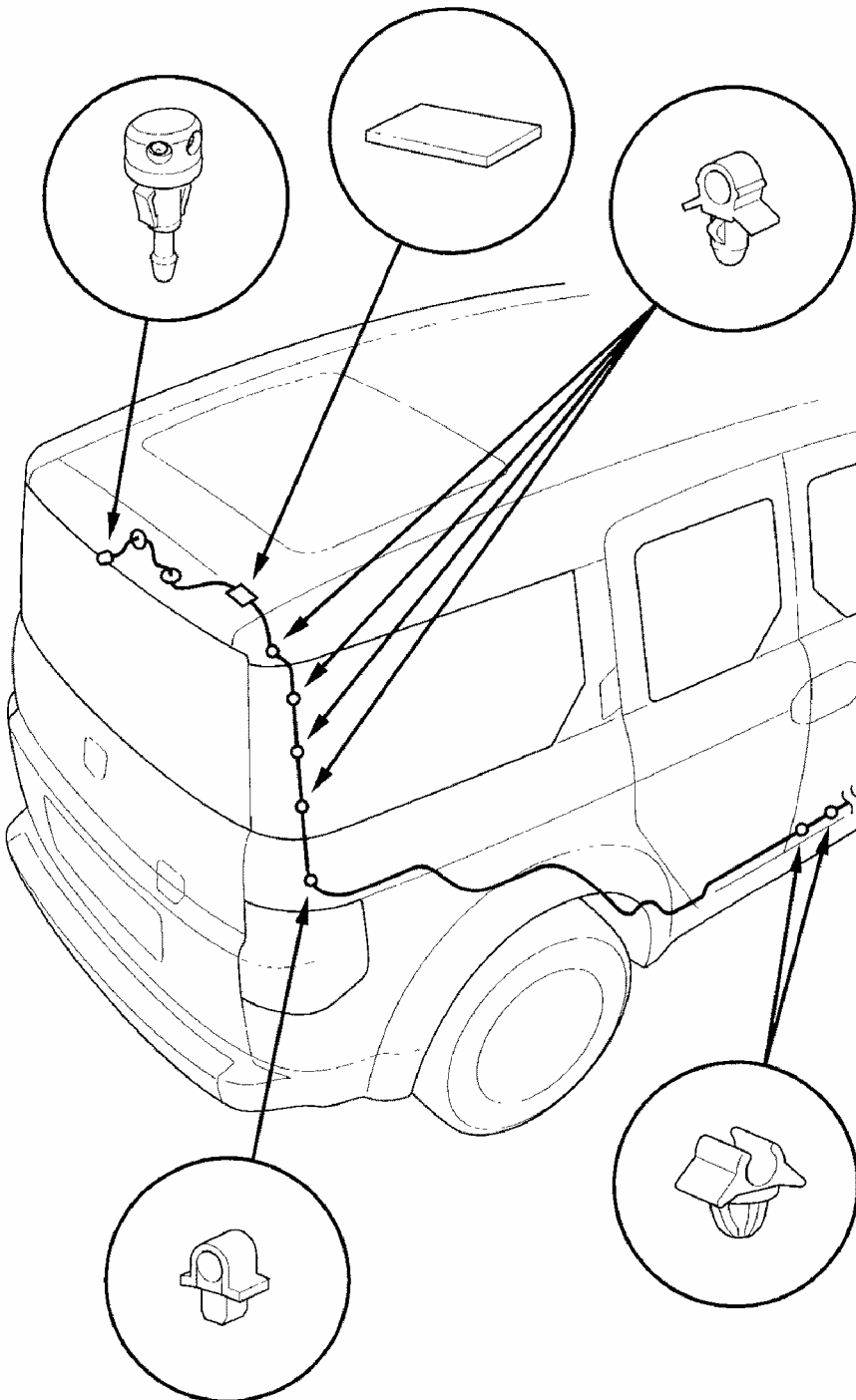
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Fig. 23: Removing Washer Tube (1 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.



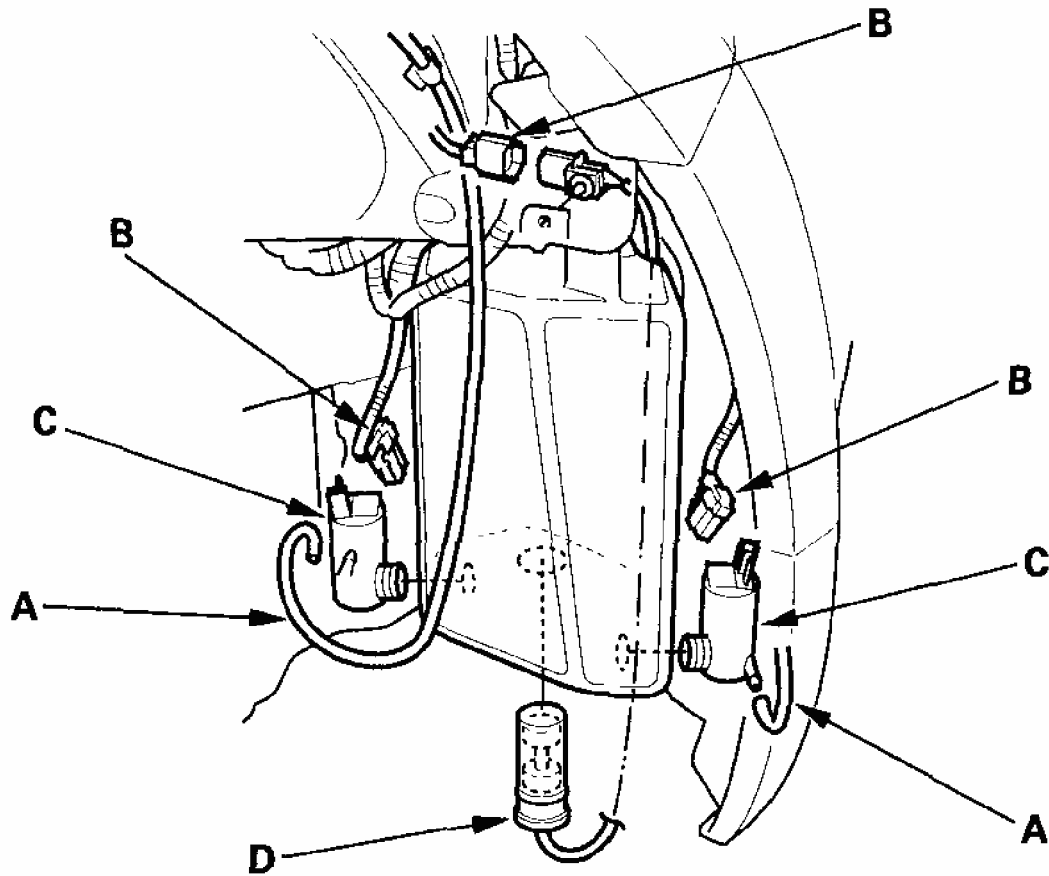
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Fig. 24: Removing Washer Tube (2 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

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

WASHER RESERVOIR REPLACEMENT

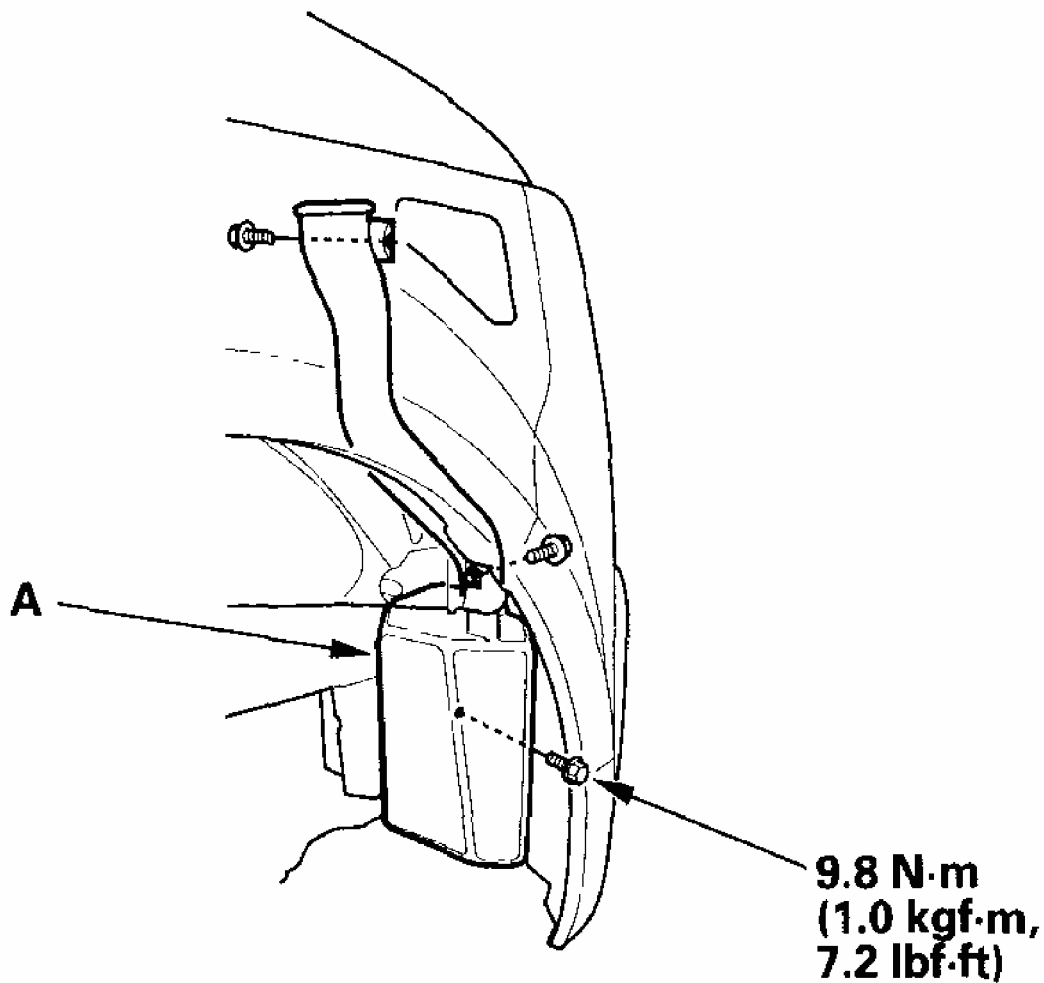
1. Remove the front bumper (see **FRONT BUMPER REMOVAL/INSTALLATION**).
2. Disconnect the washer tubes (A).



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Fig. 25: Disconnecting Washer Tubes
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Disconnect the 2P connectors (B) from the washer motors (C) and the washer fluid level switch (D) (Canada).
4. Remove the three mounting bolts and washer reservoir (A).



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Fig. 26: Removing Mounting Bolts And Washer Reservoir With Specified Torques
Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Install in the reverse order of removal. Make sure the washer motors operate properly.