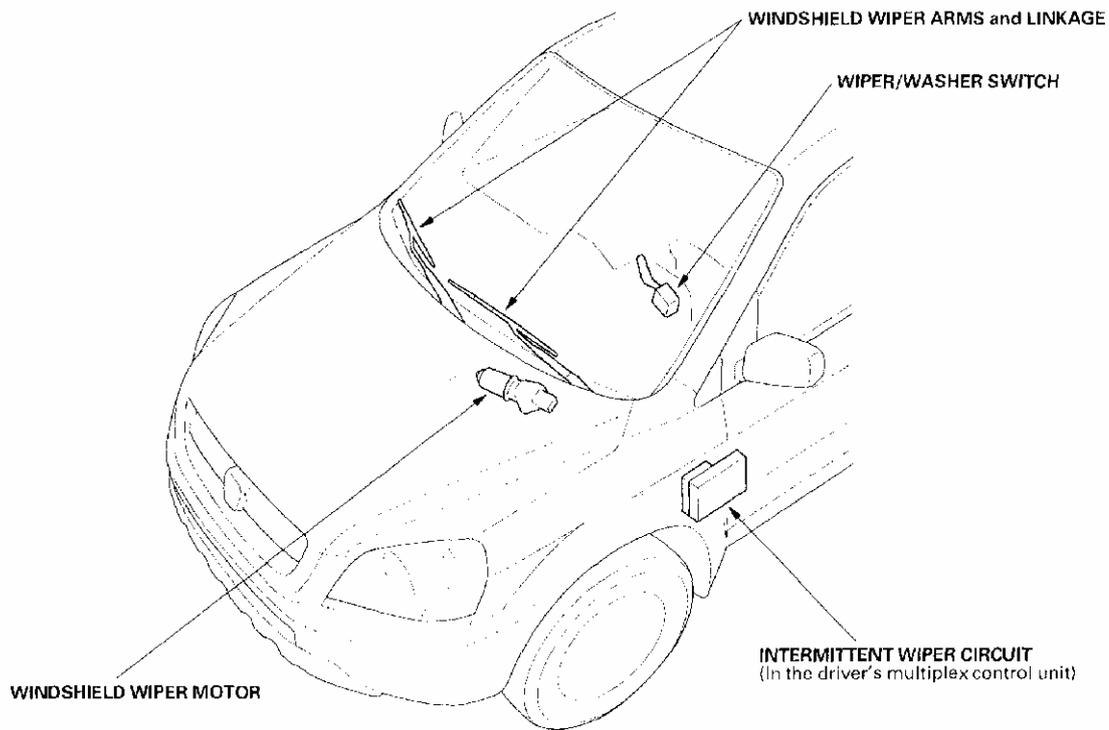


2003-04 ACCESSORIES & EQUIPMENT

Wipers/Washer System - Pilot

COMPONENT LOCATION INDEX



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Fig. 1: Locating Wiper/Washer System Components (1 Of 3)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2004 Honda Pilot EX

2003-04 ACCESSORIES & EQUIPMENT Wipers/Washer System - Pilot

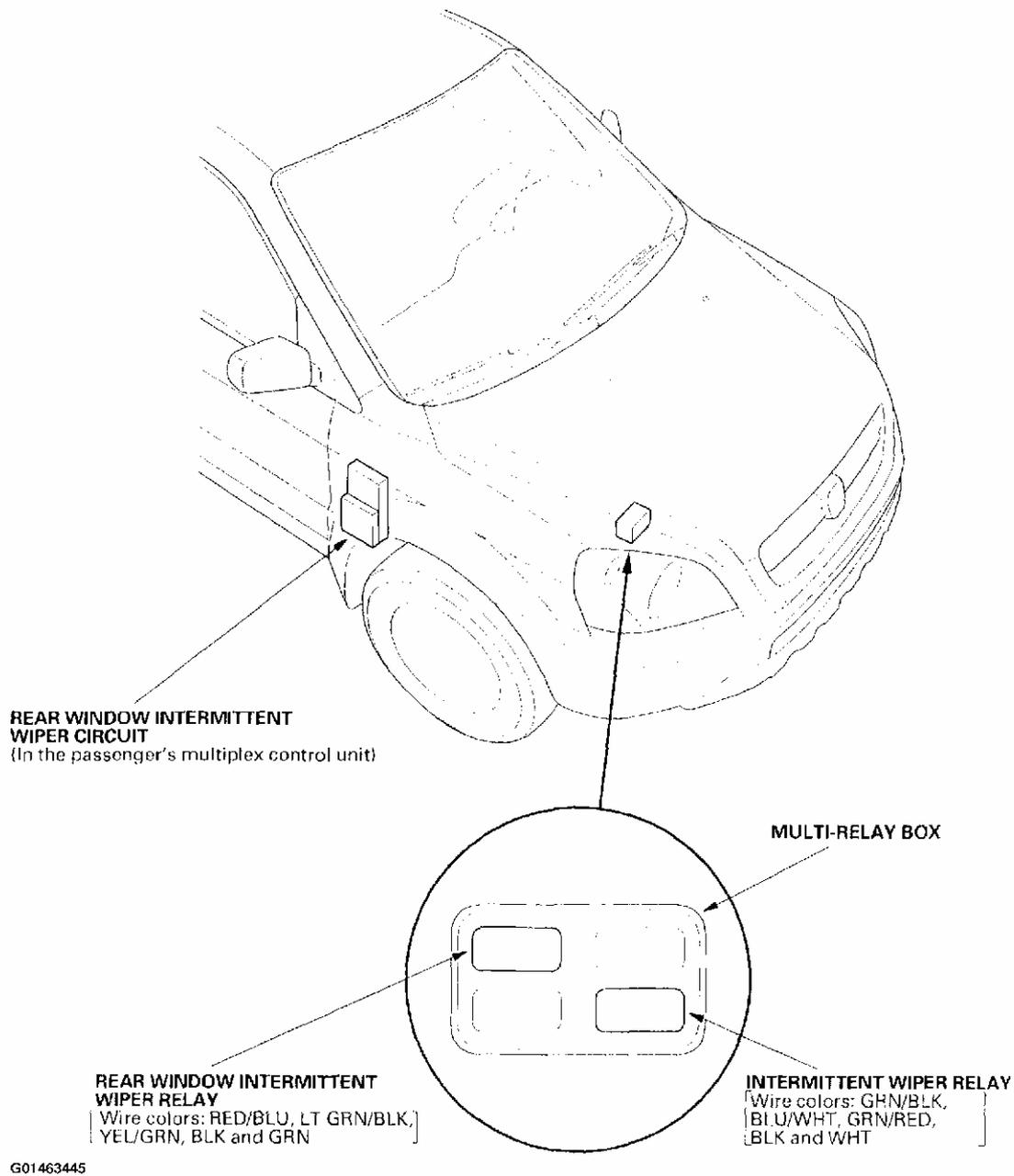
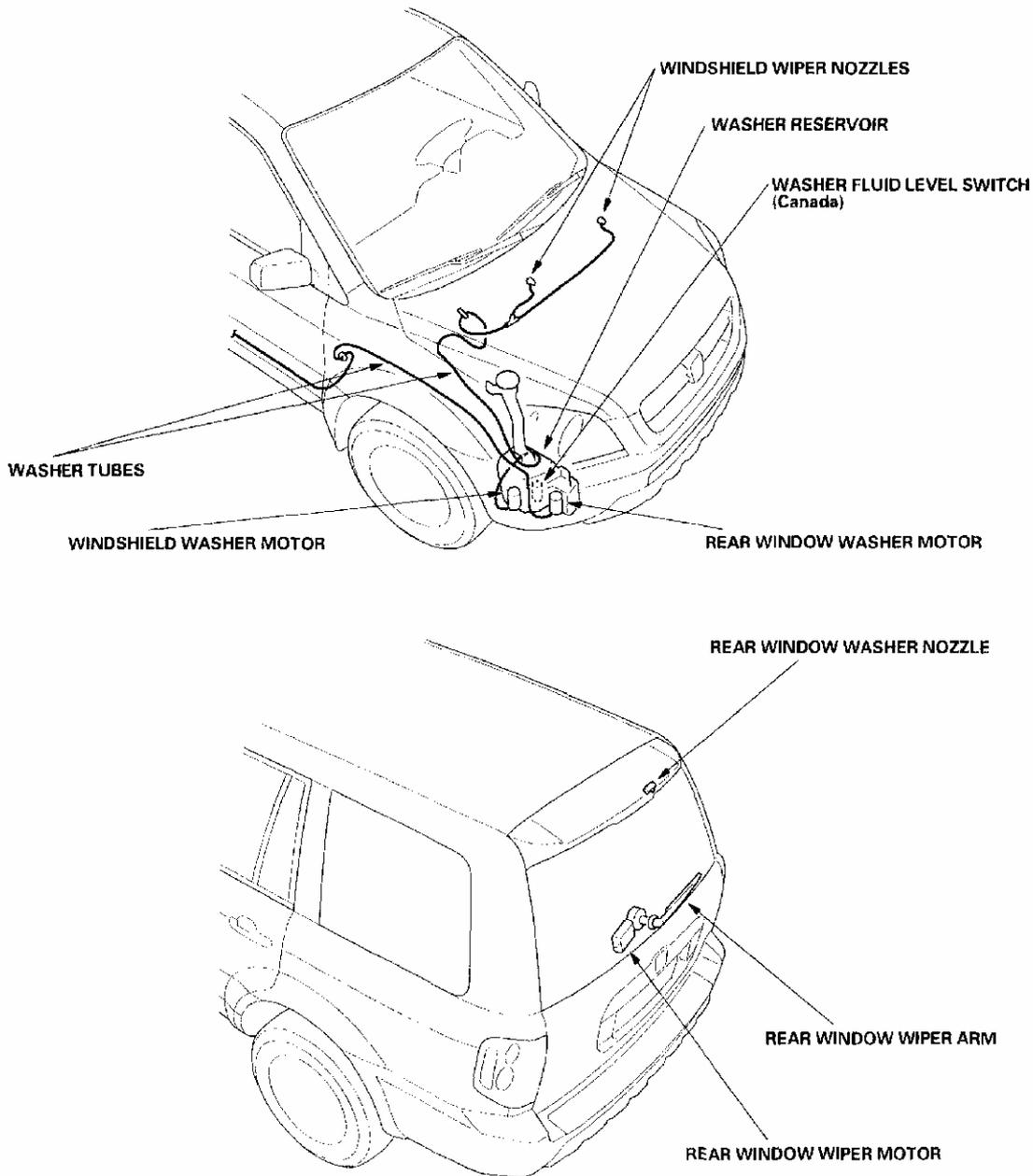


Fig. 2: Locating Wiper/Washer System Components (2 Of 3)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2004 Honda Pilot EX

2003-04 ACCESSORIES & EQUIPMENT Wipers/Washer System - Pilot



G01463446

Fig. 3: Locating Wiper/Washer System Components (3 Of 3)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

CIRCUIT DIAGRAM

2004 Honda Pilot EX

2003-04 ACCESSORIES & EQUIPMENT Wipers/Washer System - Pilot

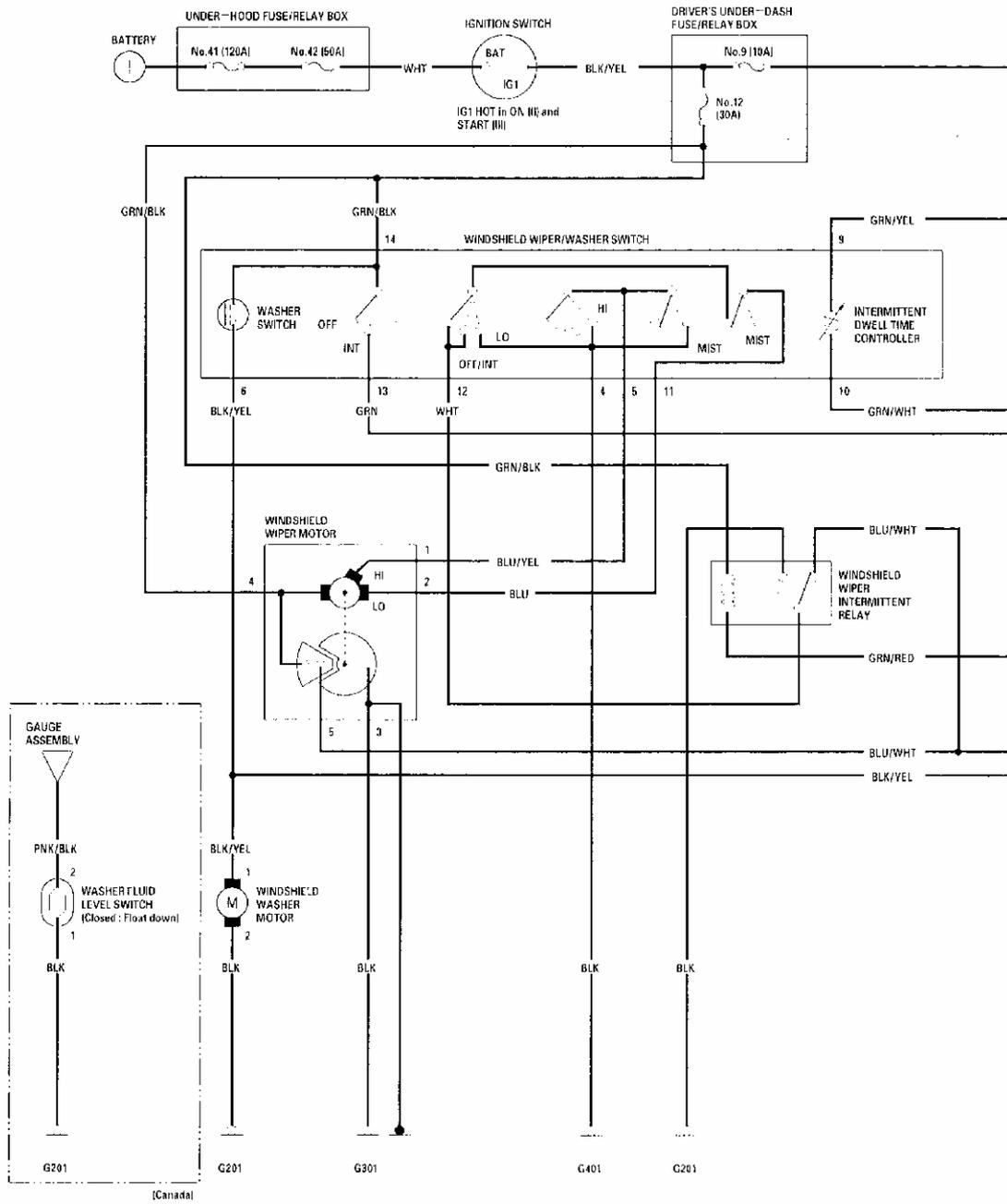
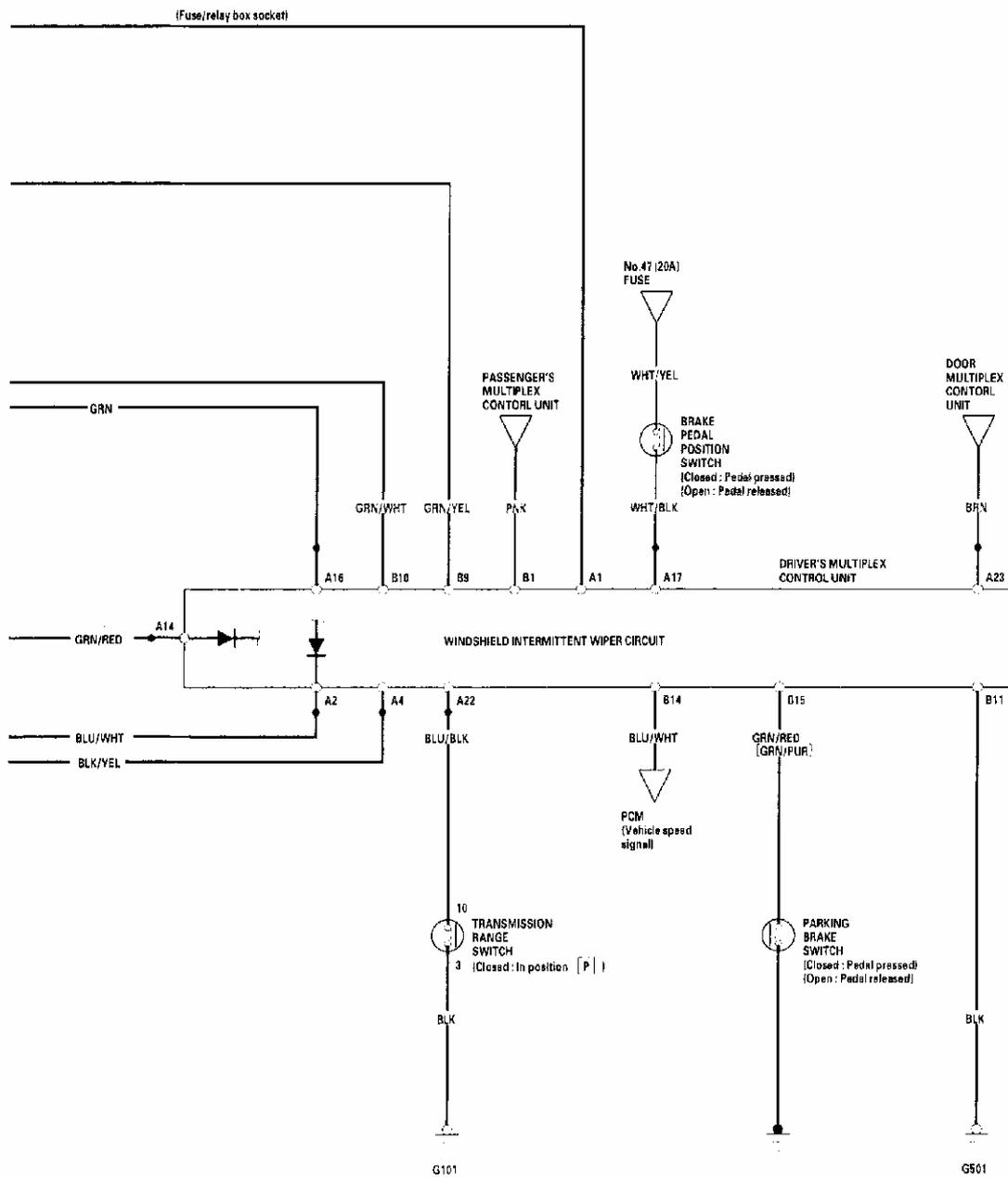


Fig. 4: Windshield Wiper/Washer System Circuit Diagram (1 Of 2)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

2004 Honda Pilot EX

2003-04 ACCESSORIES & EQUIPMENT Wipers/Washer System - Pilot

[] : Canada



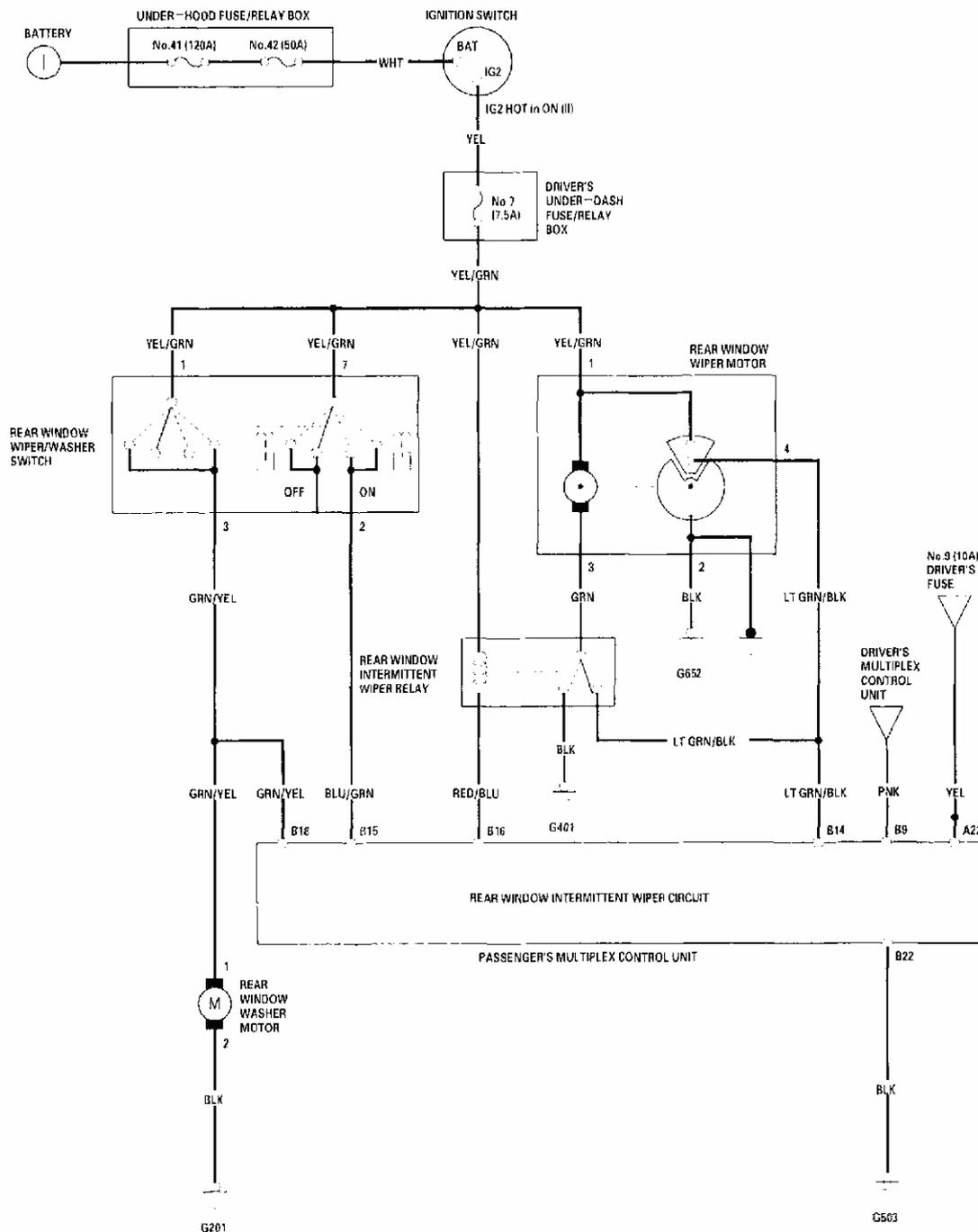
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Fig. 5: Windshield Wiper/Washer System Circuit Diagram (2 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

CIRCUIT DIAGRAM-REAR WINDOW

2004 Honda Pilot EX

2003-04 ACCESSORIES & EQUIPMENT Wipers/Washer System - Pilot



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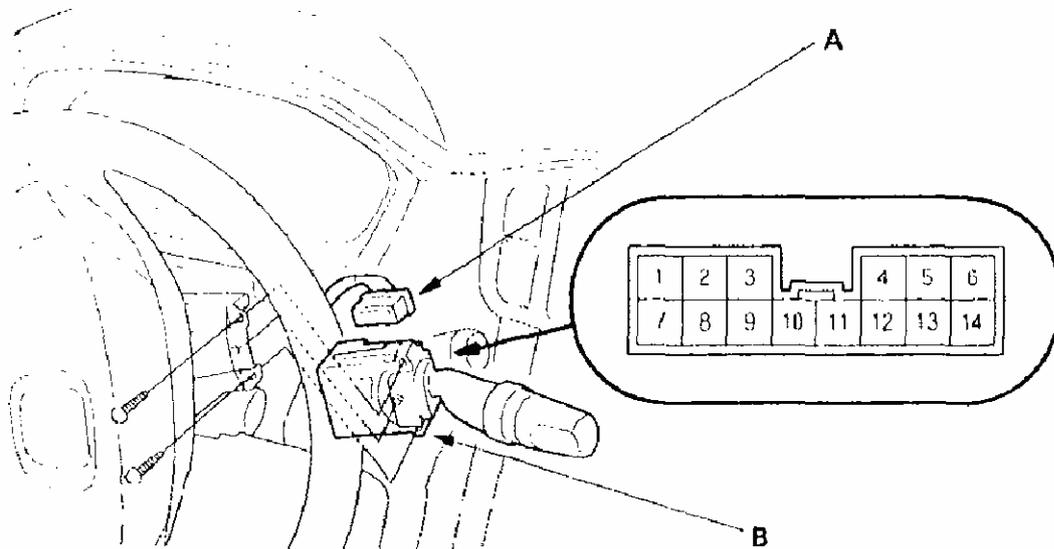
Fig. 6: Rear Window Wiper/Washer System Circuit Diagram
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

WIPER/WASHER SWITCH TEST/REPLACEMENT

1. Remove the dashboard lower cover (see **DRIVER'S DASHBOARD LOWER COVER REMOVAL/INSTALLATION**).
2. Remove the steering column covers (see **STEERING COLUMN REMOVAL &**

INSTALLATION).

3. Disconnect the 14P connector (A) from the wiper/washer switch (B).



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Fig. 7: Identifying Wiper/Washer Switch 14P Connector Terminals
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.

2004 Honda Pilot EX

2003-04 ACCESSORIES & EQUIPMENT Wipers/Washer System - Pilot

Terminal	4	5	6	11	12	13	14	9		10
Position										
OFF				○	○					
INT				○	○	○	○			
LO	○	○		○						
HI	○	○								
Mist switch ON	○	○								
Washer switch ON			○				○			
Intermittent dwell time controller turned								○	○	

0-30 kΩ

G01463451

Fig. 8: Windshield Wiper/Washer Switch Test Table
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

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

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Fig. 9: Rear Window Wiper/Washer Switch Test Table
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

6. If the continuity check is not as specified, replace the switch.

CONTROL UNIT INPUT TEST

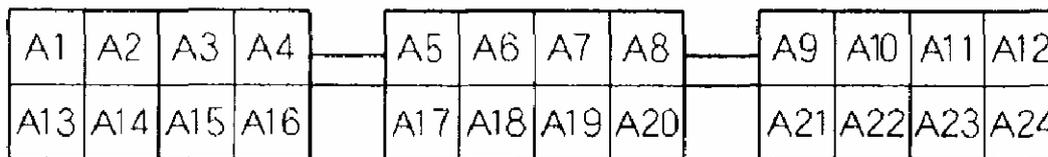
WINDSHIELD

1. Before testing the wiper/washer control functions, troubleshoot the multiplex control system (see **TROUBLESHOOTING**).

Driver's Multiplex Control Unit

1. Remove the driver's multiplex control unit from the driver's under-dash fuse/relay box, and disconnect its connector.
2. Inspect all connector and socket terminals to be sure they are 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 4.

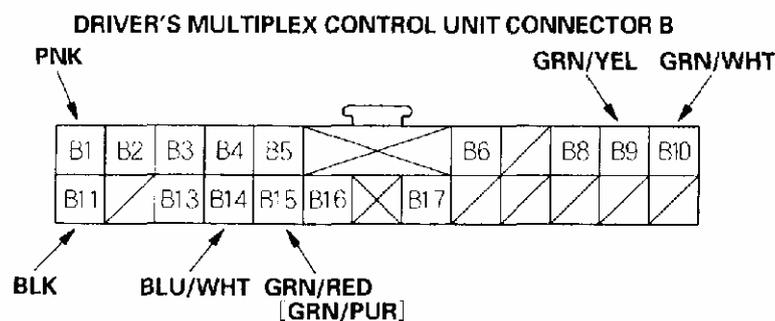
DRIVER'S UNDER-DASH FUSE/RELAY BOX SOCKET (Driver's multiplex control unit connector A)



G01463453

Fig. 10: Identifying The Driver's Multiplex Control Unit 24P Connector A Terminals

Courtesy of AMERICAN HONDA MOTOR CO., INC.



Wire side of female terminals

[] : Canada

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Fig. 11: Identifying The Driver's Multiplex Control Unit 22P Connector B Terminals

Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. With the driver's multiplex control unit still disconnected, make these input tests at the connector and driver's under-dash fuse/relay box sockets.
 - If any test indicates a problem, find and correct the cause, then recheck the system.
 - If all the input tests prove OK, driver's multiplex control unit must be faulty; replace it.

Cavity	Wire	Test condition	Test: Desired result	Possible cause if result is not obtained
B11*	BLK	Under all conditions	Check for continuity to ground: There should be continuity.	<ul style="list-style-type: none"> • Poor ground (G501) • An open in the wire • Blown No. 9 (10A) fuse in the driver's under-dash fuse/relay box • Faulty driver's under-dash fuse/relay box • Faulty transmission range switch • Poor ground (G101) • An open in the wire • Blown No. 47 (20A) fuse in the under-hood fuse/relay box • Faulty brake pedal position switch • An open in the wire • An open in the wire
A1	Fuse/relay box socket	Ignition switch ON (I)	Check for voltage to ground: There should be battery voltage.	
A22		Shift lever in P position	Check for continuity to ground: There should be continuity.	
A17		Brake pedal pressed	Check for voltage to ground: There should be battery voltage.	
B14*	BLU/WHT	Under all conditions	Check for continuity between the B14 terminal and No. 9 terminal of the PCM 32P connector A: There should be continuity.	
B15*	GRN/RED	Parking brake pedal pressed	Check for continuity to ground: There should be continuity.	
B9	GRN/PUR	Intermittent dwell time control ring turned	Check resistance between the terminals: it should vary from 0 to approx. 30 k Ω as the ring is turned.	
B10*	GRN/YEL		Check resistance between the terminals: it should vary from 0 to approx. 30 k Ω as the ring is turned.	
A16	Fuse/relay box socket	Ignition switch ON (III) and wiper switch at INT	Check for voltage to ground: There should be battery voltage.	
A14		Ignition switch ON (II)	Check for voltage to ground: There should be battery voltage.	
A4		Ignition switch ON (II) and washer switch ON	Check for voltage to ground: There should be battery voltage.	
A2		Ignition switch ON (II) and wiper switch in the PARK position	Check for voltage to ground: There should be battery voltage.	

† : Canada
 * : Driver's multiplex control unit connector B

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Fig. 12: Control Unit Input Test Table (Windshield)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

REAR WINDOW

1. Before testing the wiper/washer control functions, troubleshoot the multiplex control system (see **TROUBLESHOOTING**).

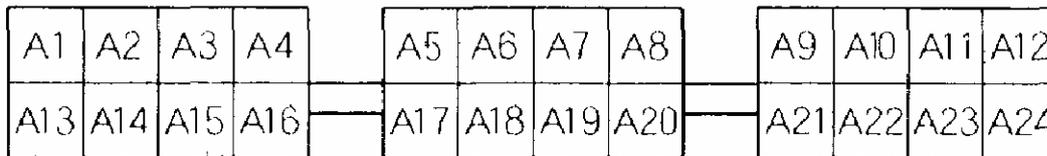
Passenger's Multiplex Control Unit

1. Remove the passenger's multiplex control unit from the passenger's under-dash fuse/relay

box, and disconnect its connector.

2. Inspect all 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 4.

PASSENGER'S UNDER-DASH FUSE/RELAY BOX SOCKET
(Passenger's multiplex control unit connector A)

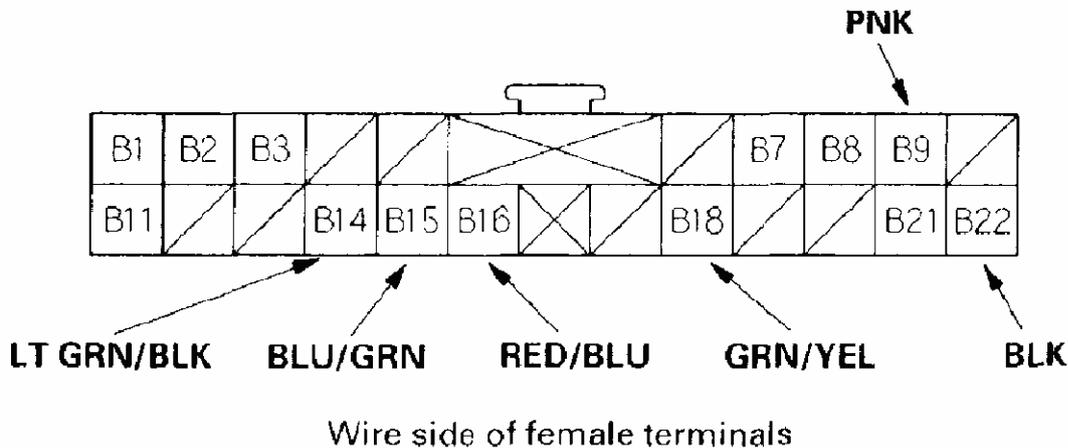


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Fig. 13: Identifying The Passenger's Multiplex Control Unit 24P Connector A Terminals

Courtesy of AMERICAN HONDA MOTOR CO., INC.

PASSENGER'S MULTIPLEX CONTROL UNIT CONNECTOR B



G01463457

Fig. 14: Identifying The Passenger's Under-Dash Fuse/Relay Box 22P Connector B Terminals

Courtesy of AMERICAN HONDA MOTOR CO., INC.

2004 Honda Pilot EX

2003-04 ACCESSORIES & EQUIPMENT Wipers/Washer System - Pilot

3. With the passenger's multiplex control unit still disconnected, make these input tests at the connector and passenger's under-dash fuse/relay box sockets.
 - If any test indicates a problem, find and correct the cause, then recheck the system.
 - If all the input tests prove OK, the control unit must be faulty; replace the control unit.

Cavity	Wire	Test condition	Test: Desired result	Possible cause if result is not obtained
A22	Fuse/relay box socket	Ignition switch ON (II)	Check for voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 9 (10A) fuse in the driver's under-dash fuse/relay box • Faulty driver's fuse/relay box • An open in the wire
B22	BLK	Under all conditions	Check for continuity to ground: There should be continuity.	<ul style="list-style-type: none"> • Poor ground (G503) • An open in the wire
B16	RED/BLU	Ignition switch ON (II)	Attach to ground: The rear window wiper motor should run.	<ul style="list-style-type: none"> • Blown No. 7 (7.5A) fuse in the driver's under-dash fuse/relay box • Faulty rear window intermittent wiper relay • An open in the wire
B14 B16	LT GRN/BLK and RED/BLU	Ignition switch ON (II)	Attach B16 to ground, check for voltage between B14 and ground. There should be 4 V or more with the wiper in the park position and 0 V as it sweeps.	<ul style="list-style-type: none"> • Blown No. 7 (7.5A) fuse in the driver's under-dash fuse/relay box • Faulty rear window intermittent wiper relay • Faulty rear window wiper motor • An open in the wire
B15	BLU/GRN	Ignition switch ON (II) and rear wiper switch ON	Check for voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 7 (7.5A) fuse in the driver's under-dash fuse/relay box • Faulty wiper/washer switch • An open in the wire
B18	GRN/YEL	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. 7 (7.5A) fuse in the driver's under-dash fuse/relay box • Faulty wiper/washer switch • An open in the wire

* : Passenger's multiplex control unit connector B

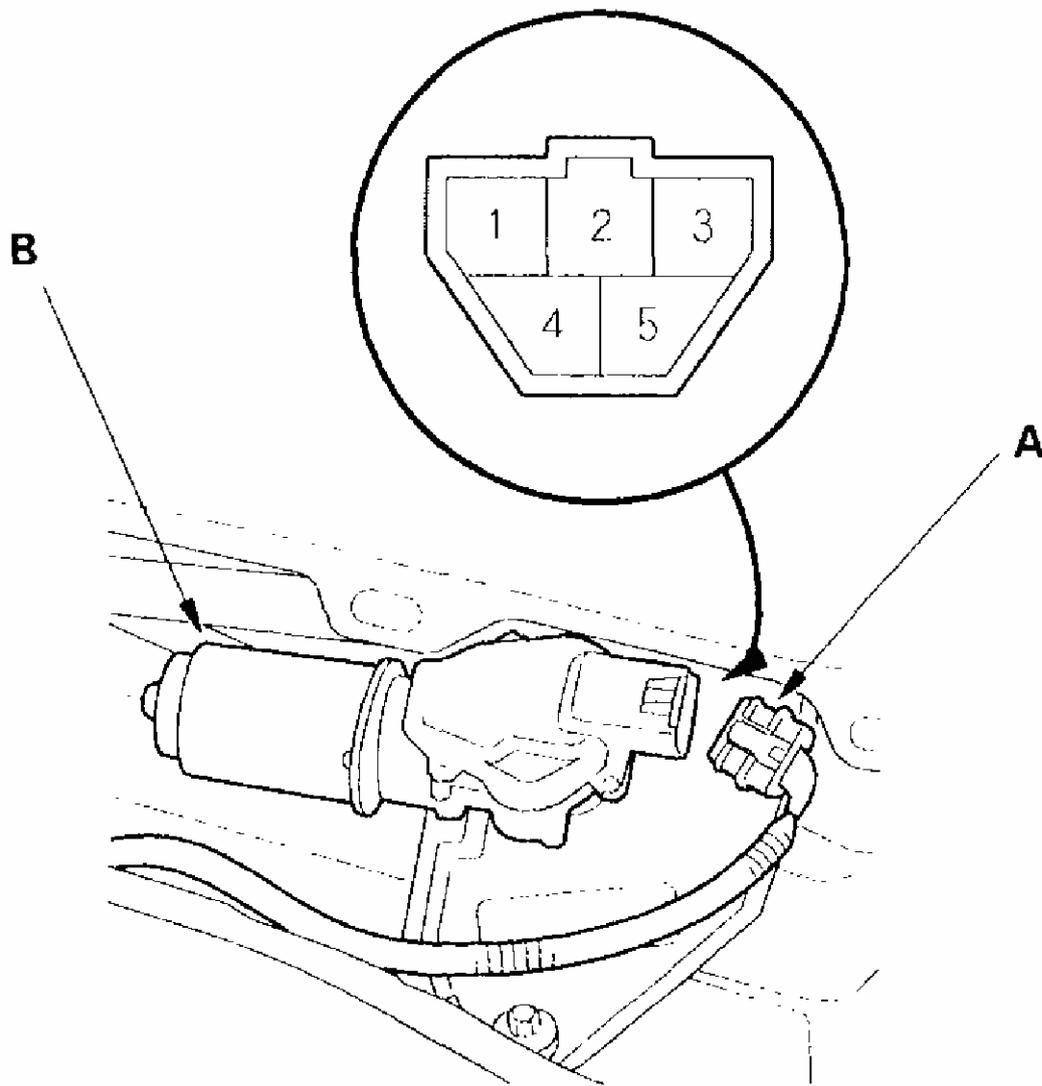
G01463458

Fig. 15: Control Unit Input Test Table (Rear Window)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

WIPER MOTOR TEST/REPLACEMENT

WINDSHIELD

1. Remove the cowl cover (see **Wiper Motor Replacement**).
2. Disconnect the wiper motor connector (A) from the wiper motor (B).



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Fig. 16: Identifying Windshield Wiper Motor 5P Connector Terminals
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Test the motor by connecting battery power and ground according to the table.

2004 Honda Pilot EX

2003-04 ACCESSORIES & EQUIPMENT Wipers/Washer System - Pilot

Terminal Position	1	2	4
LOW SPEED		⊖	⊕
HIGH SPEED	⊖		⊕

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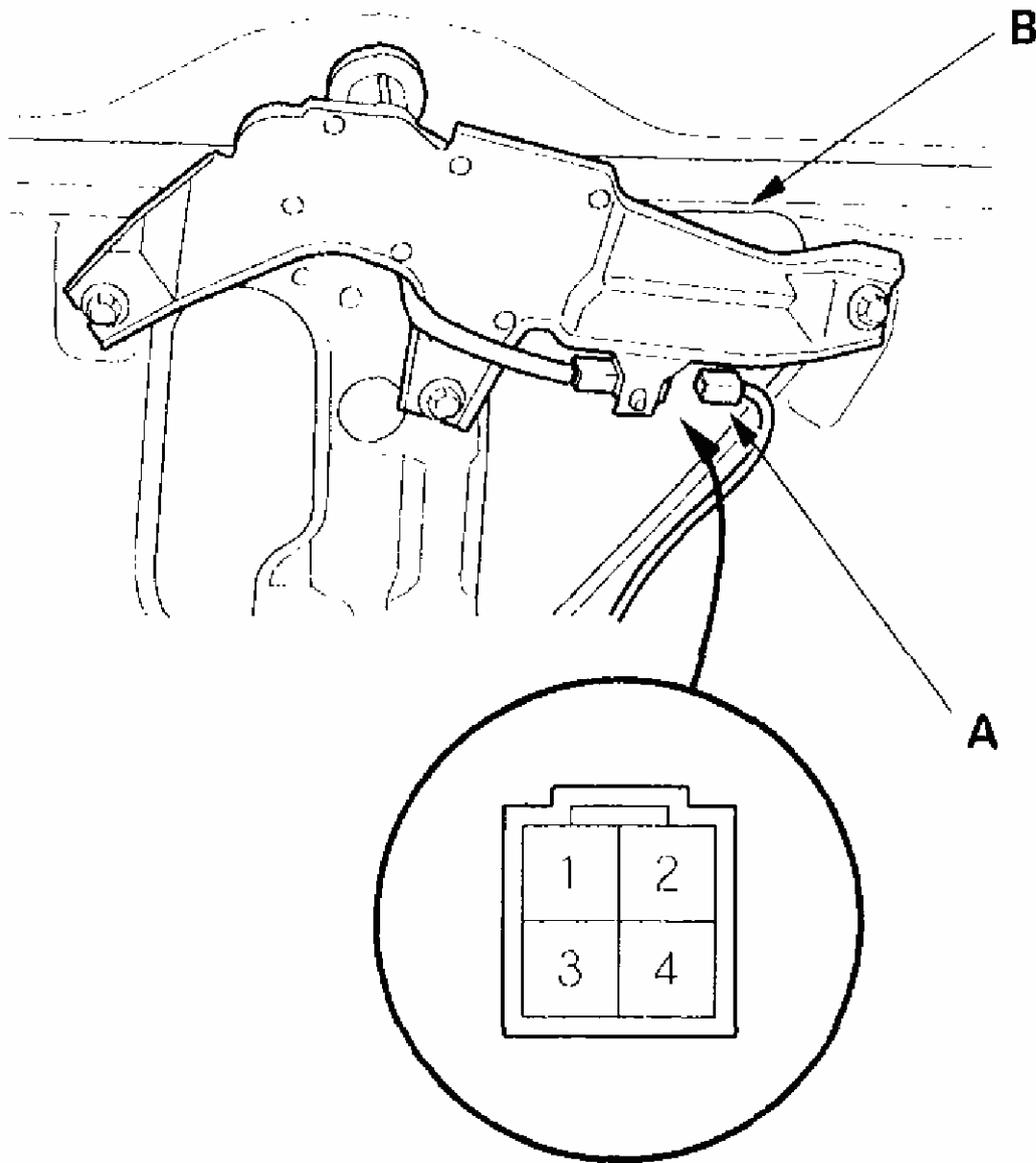
Fig. 17: Windshield Wiper Motor Test Table

Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Connect an analog voltmeter between the No. 5 (+) and No. 3 (-) terminals, and run the motor at low or high speed. The voltmeter should indicate 0 V and 4 V or more alternately.
5. If the voltmeter does not indicate as specified, replace the wiper motor.

REAR WINDOW

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



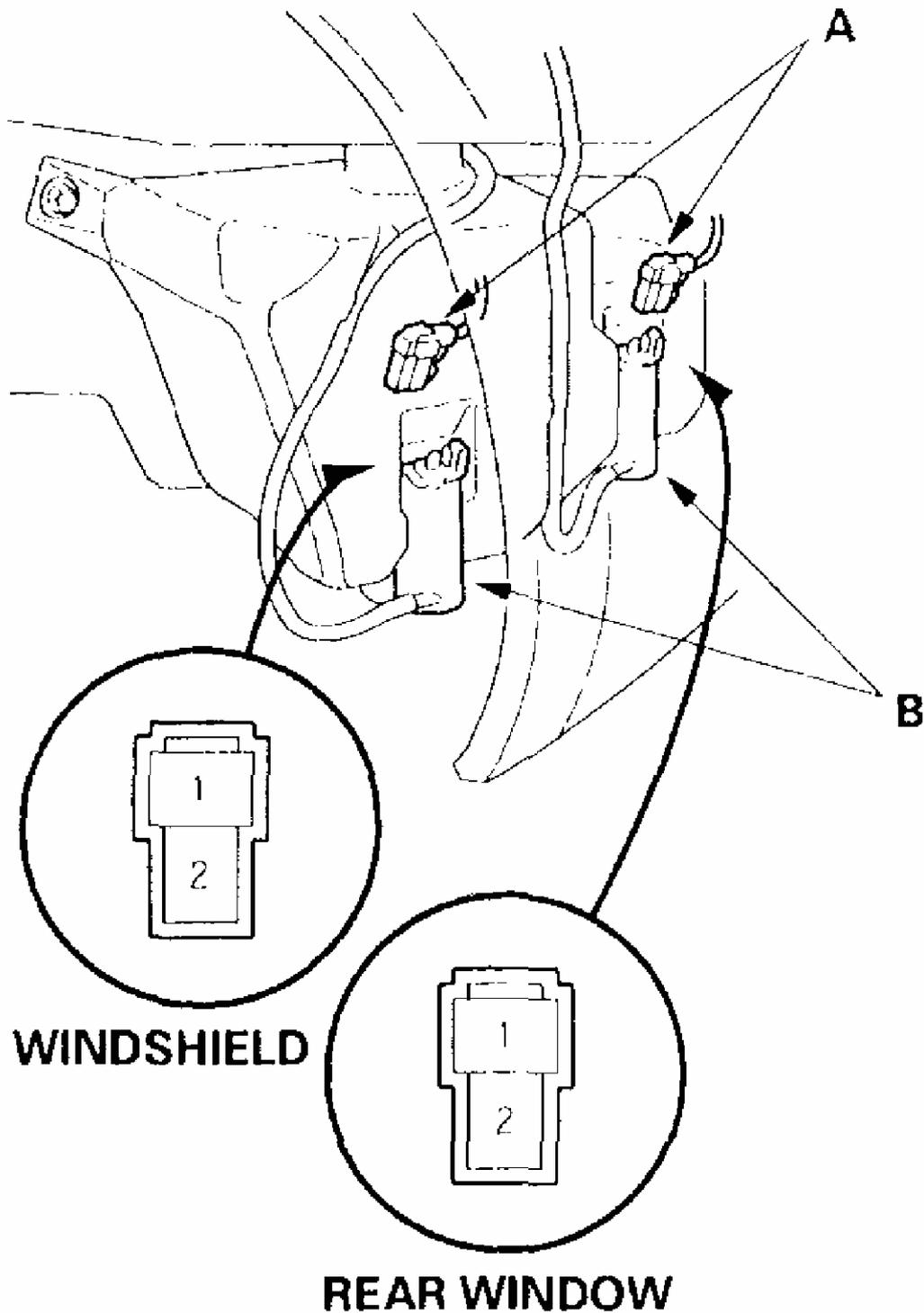
G01463461

Fig. 18: Identifying Rear Window Wiper Motor 5P Connector Terminals
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Test the motor by connecting battery power to the wiper motor 4P connector No. 1 terminal and grounding the No. 3 terminal. The motor should run.
4. Connect an analog voltmeter between the No. 4 (+) and No. 2 (-) terminals, and run the motor. The voltmeter should indicate 0 V and 4 V or more alternately.
5. If the voltmeter does not indicate as specified, replace the wiper motor.

WASHER MOTOR TEST REPLACEMENT

1. Remove the right inner fender .
2. Disconnect the 2P connectors (A) from the washer motors (B).



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Fig. 19: Identifying Washer Motors 2P Connectors Terminals

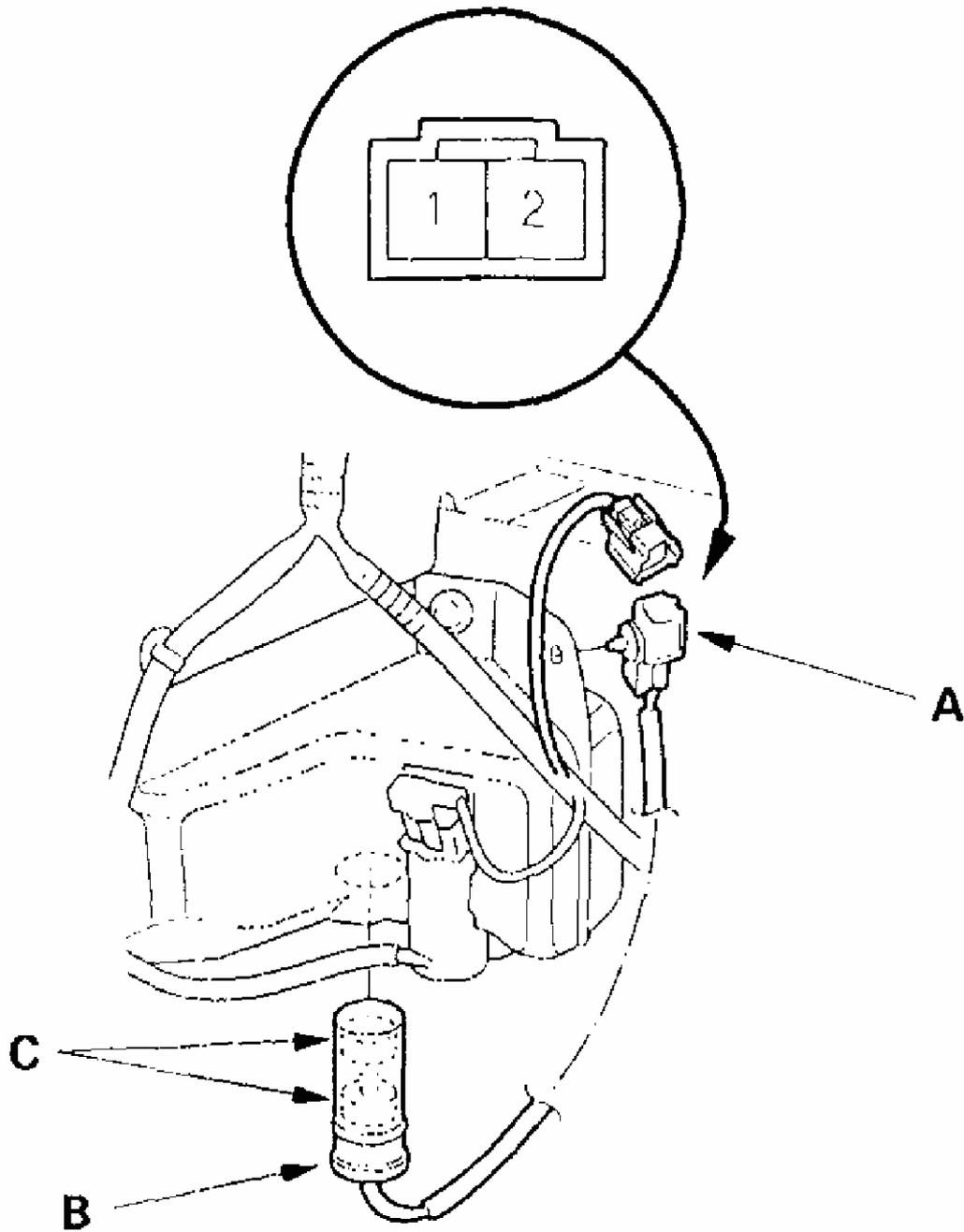
Courtesy of AMERICAN HONDA MOTOR CO., INC.

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

WASHER FLUID LEVEL SWITCH TEST/REPLACEMENT

CANADA

1. Remove the right inner fender .
2. Disconnect the 2P connector (A) from the washer fluid level switch (B).



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Fig. 20: Identifying Washer Fluid Level Switch 2P Connector Terminals
Courtesy of AMERICAN HONDA MOTOR CO., INC.

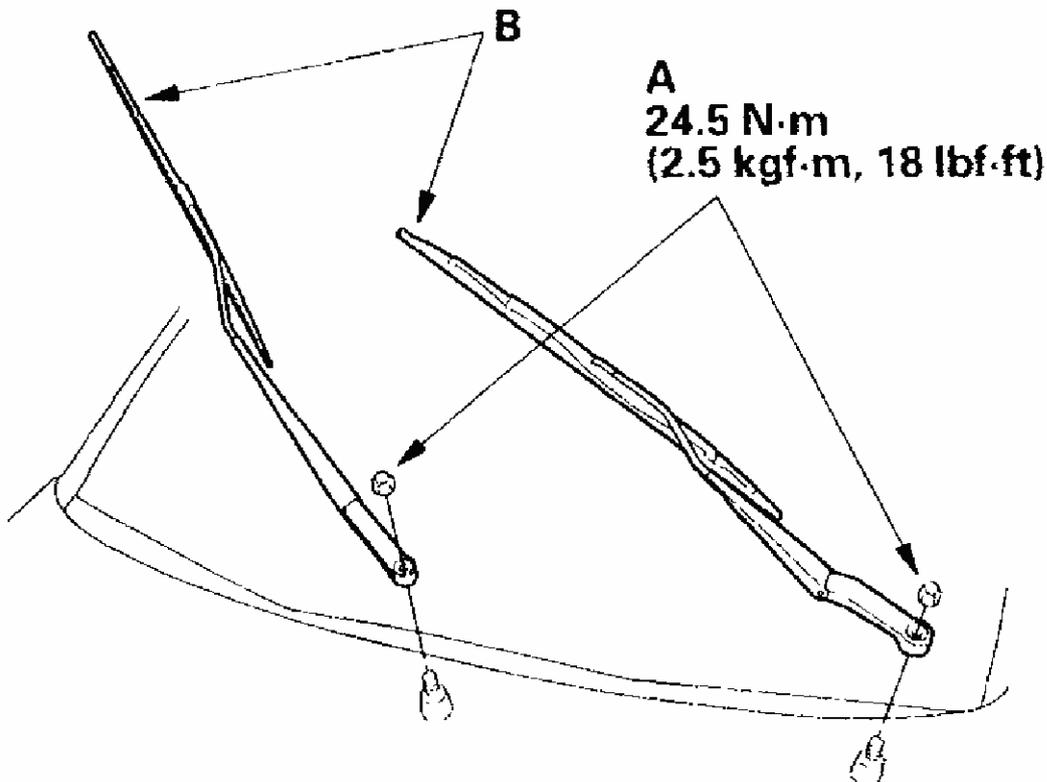
NOTE: Fluid may flow out of the opening.

3. Remove the washer fluid level switch from the reservoir.
4. Check for continuity between the No. 1 and No. 2 terminals in each float switch 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 float switch.

WIPER MOTOR REPLACEMENT

WINDSHIELD

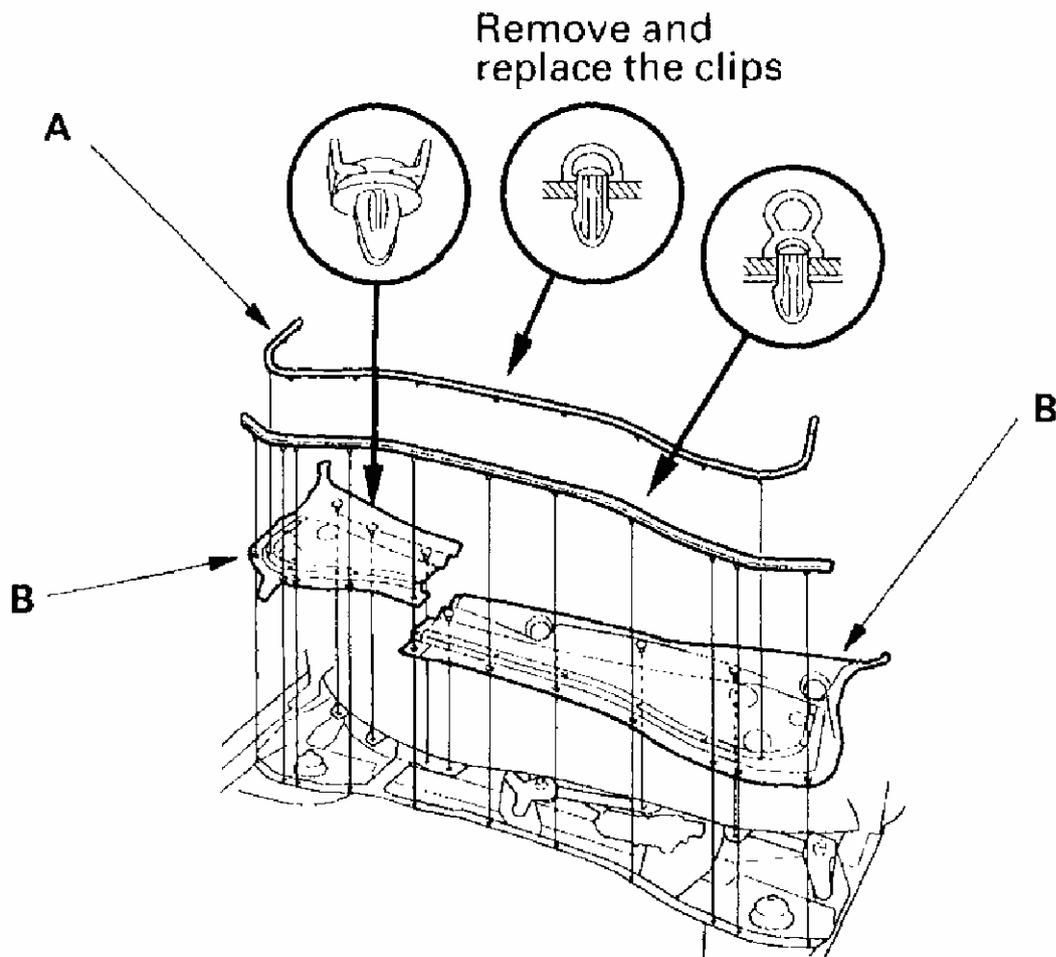
1. Remove the nuts (A) and the windshield wiper arms (B).



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Fig. 21: Removing The Windshield Wiper Arms
Courtesy of AMERICAN HONDA MOTOR CO., INC.

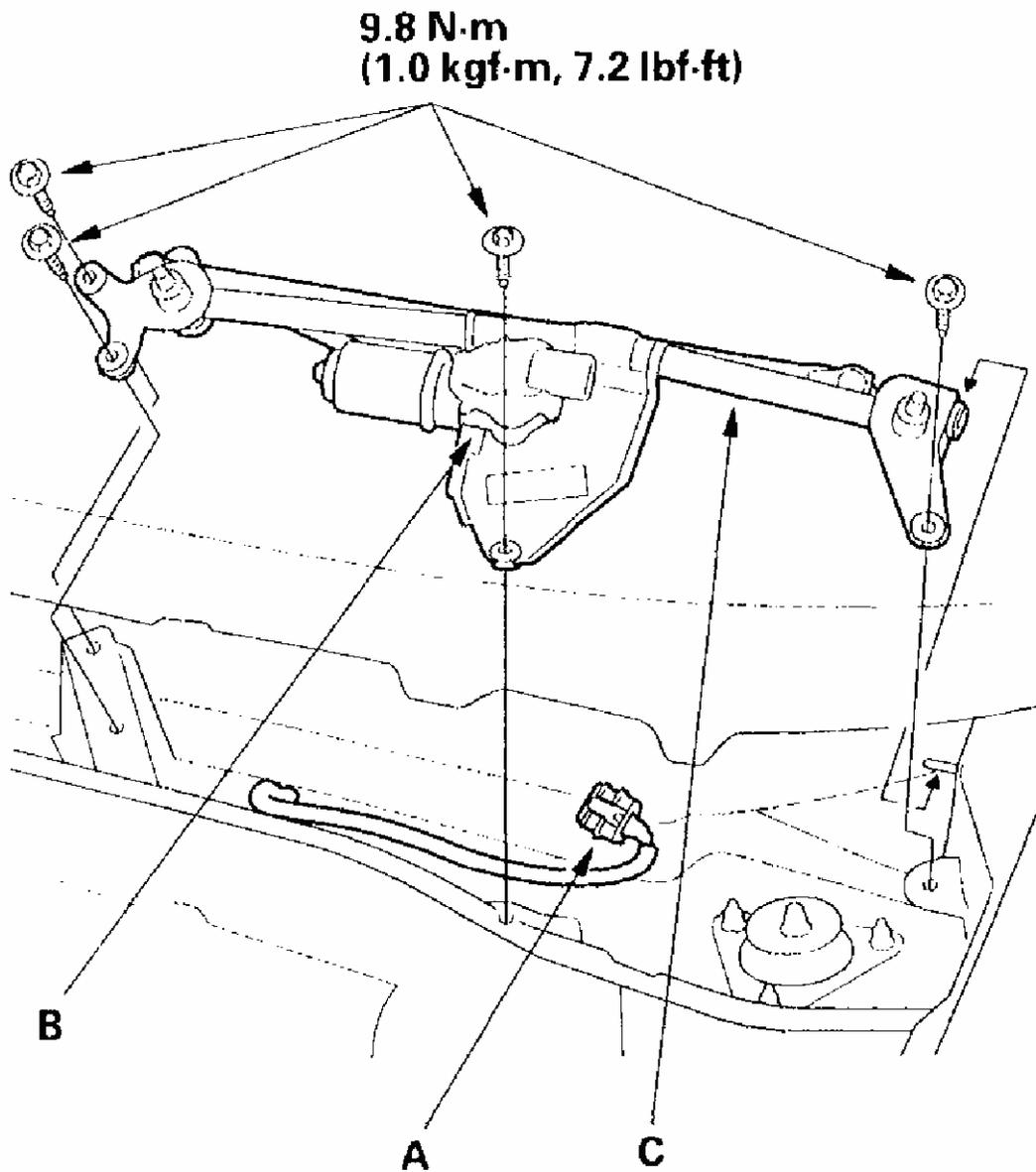
2. Remove the hood seal (A) and cowl covers (B).



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Fig. 22: Removing The Hood Seal & Cowl Covers
Courtesy of AMERICAN HONDA MOTOR CO., INC.

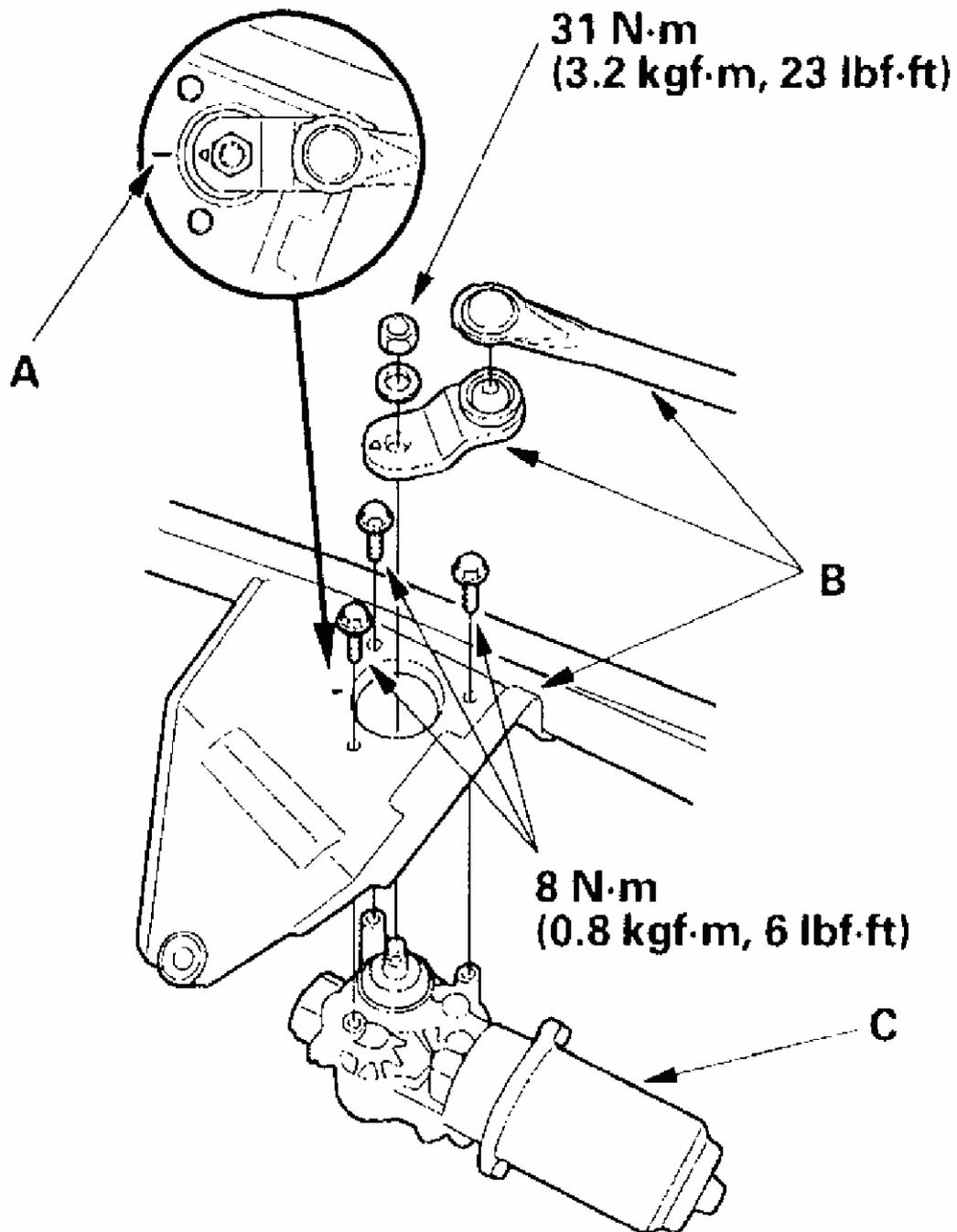
3. Disconnect the 5P connector (A) from the windshield wiper motor (B).



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Fig. 23: Disconnecting The 5P Connector From The Windshield Wiper Motor
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Remove the mounting bolts and the wiper linkage assembly (C).
5. 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).



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Fig. 24: Separating The Windshield Wiper Linkage From The Wiper Motor
Courtesy of AMERICAN HONDA MOTOR CO., INC.

6. 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

1. Remove the cover (A), mounting nut (B) and rear window wiper arm (C).

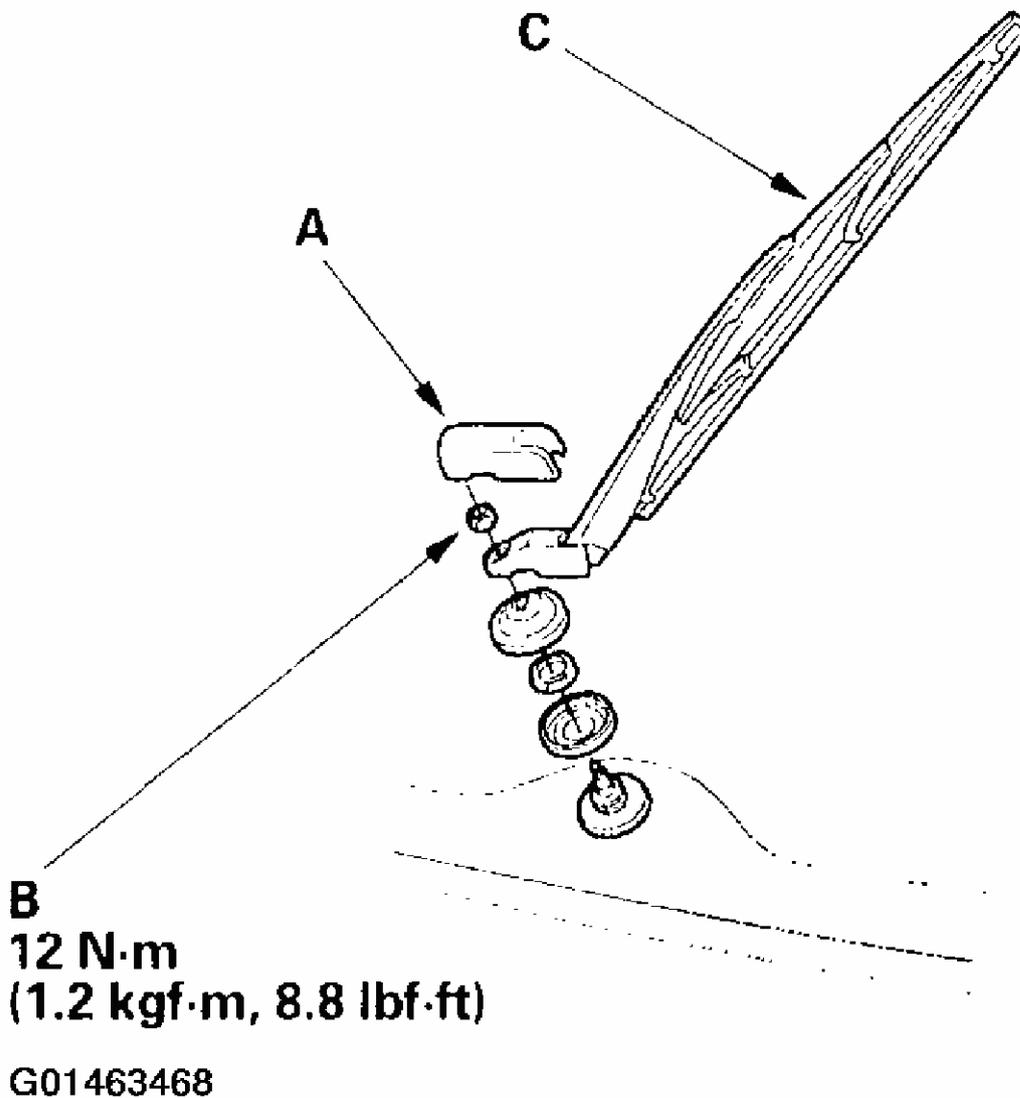
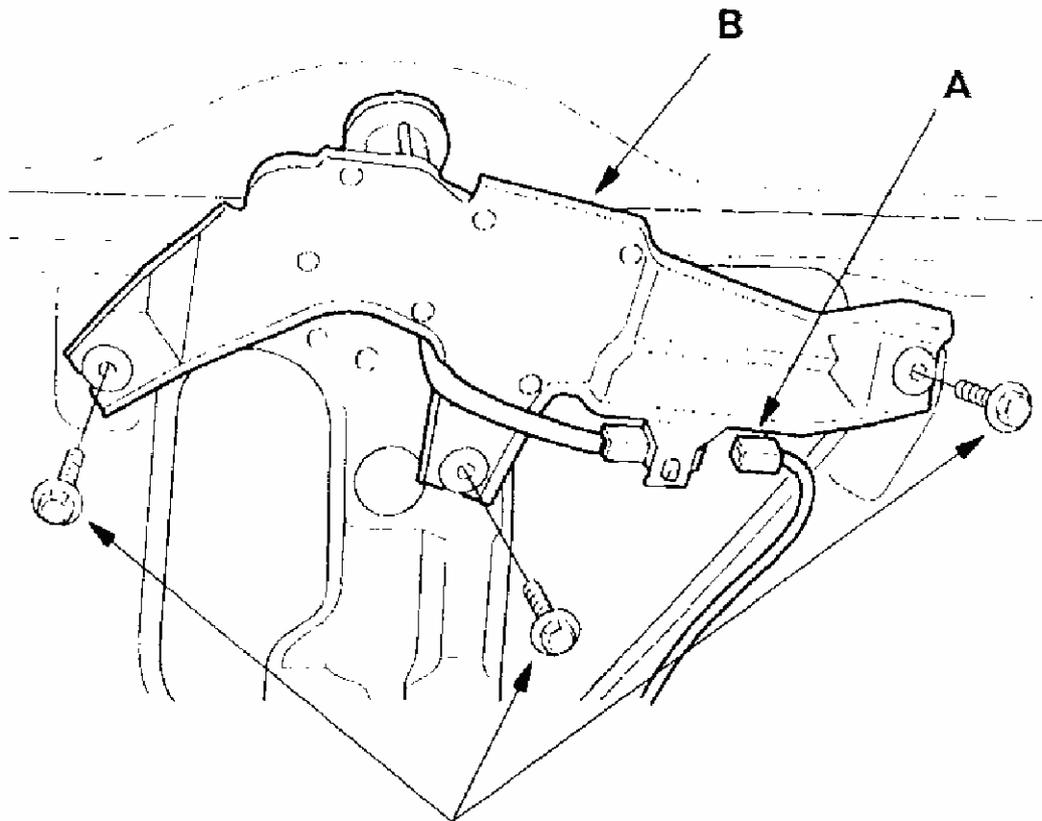


Fig. 25: Removing The Rear Window Wiper Arm

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).



9.8 N·m
(1.0 kgf·m, 7.2 lbf·ft)

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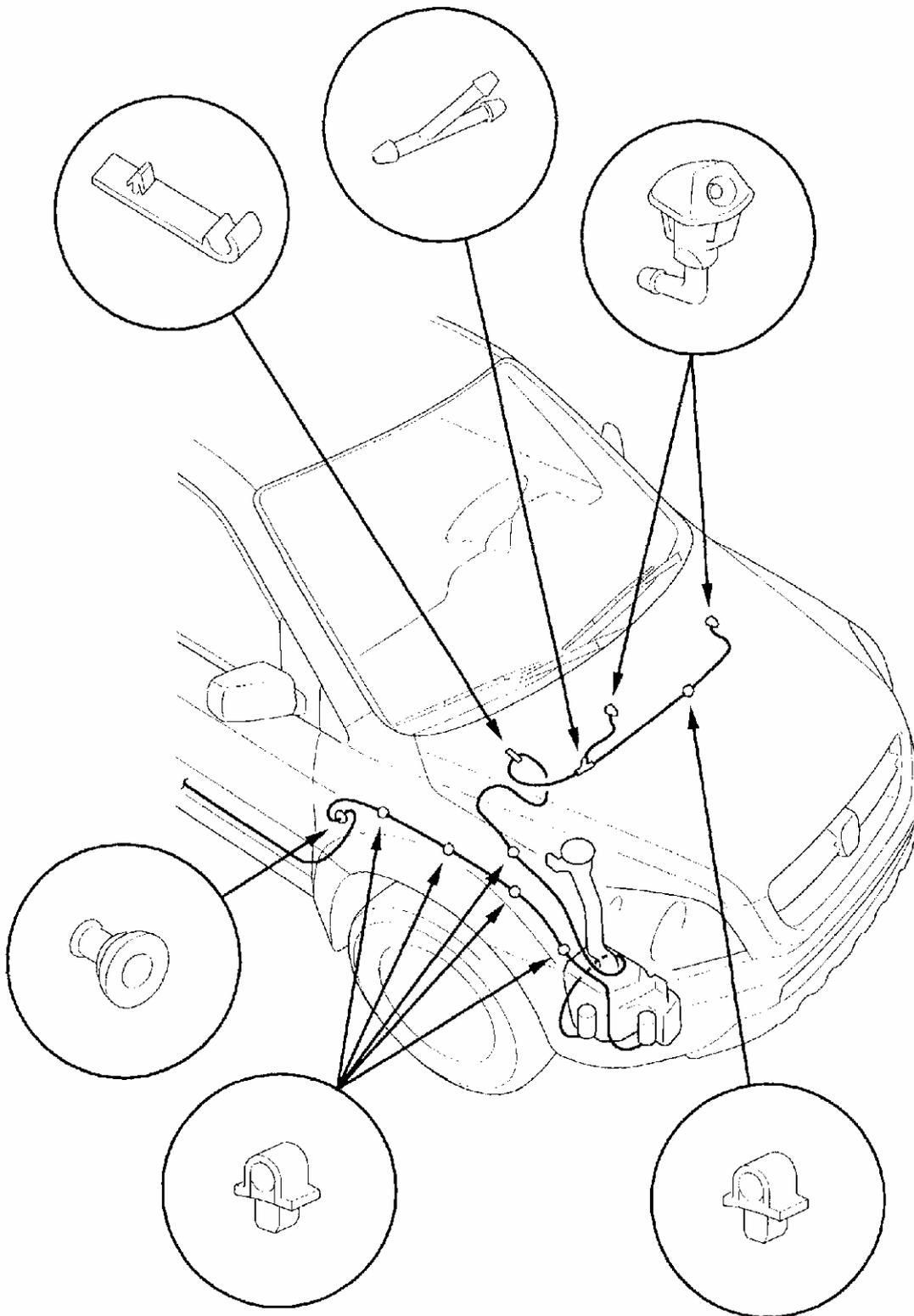
Fig. 26: Disconnecting The 4P Connector From The Rear Window Wiper Motor
Courtesy of AMERICAN HONDA MOTOR CO., INC.

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

WASHER TUBE REPLACEMENT

1. Remove the right inner fender .

2. Remove the washer nozzles and clips, then remove the tube.



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Fig. 27: Removing The Washer Nozzles & Clips, & Removing The Tube

2004 Honda Pilot EX

2003-04 ACCESSORIES & EQUIPMENT Wipers/Washer System - Pilot

(Windshield)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

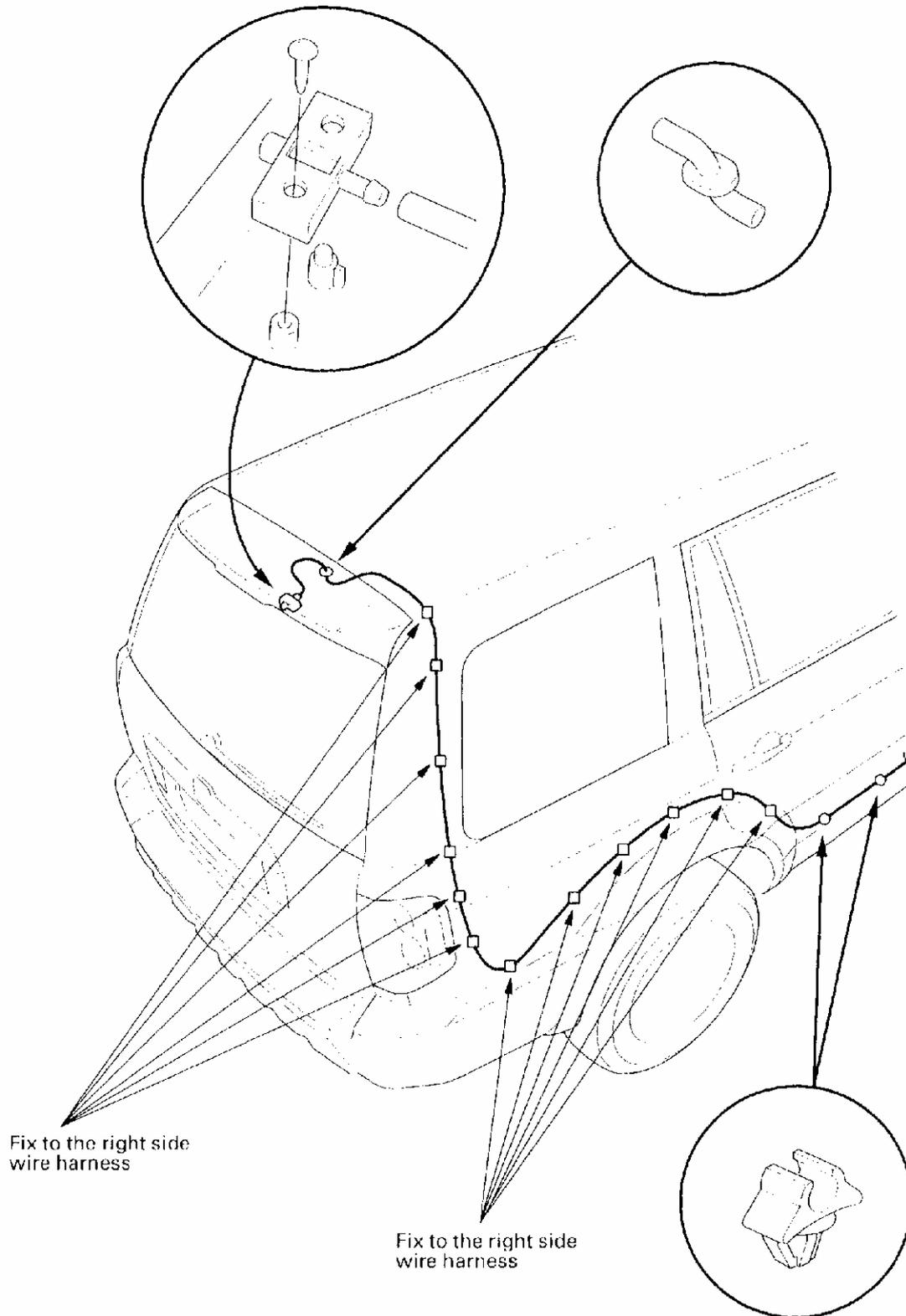


Fig. 28: Removing The Washer Nozzles & Clips, & Removing The Tube (Rear Window)

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 washers operation.

WASHER RESERVOIR REPLACEMENT

1. Remove the right inner fender .
2. Disconnect the washer tubes (A).

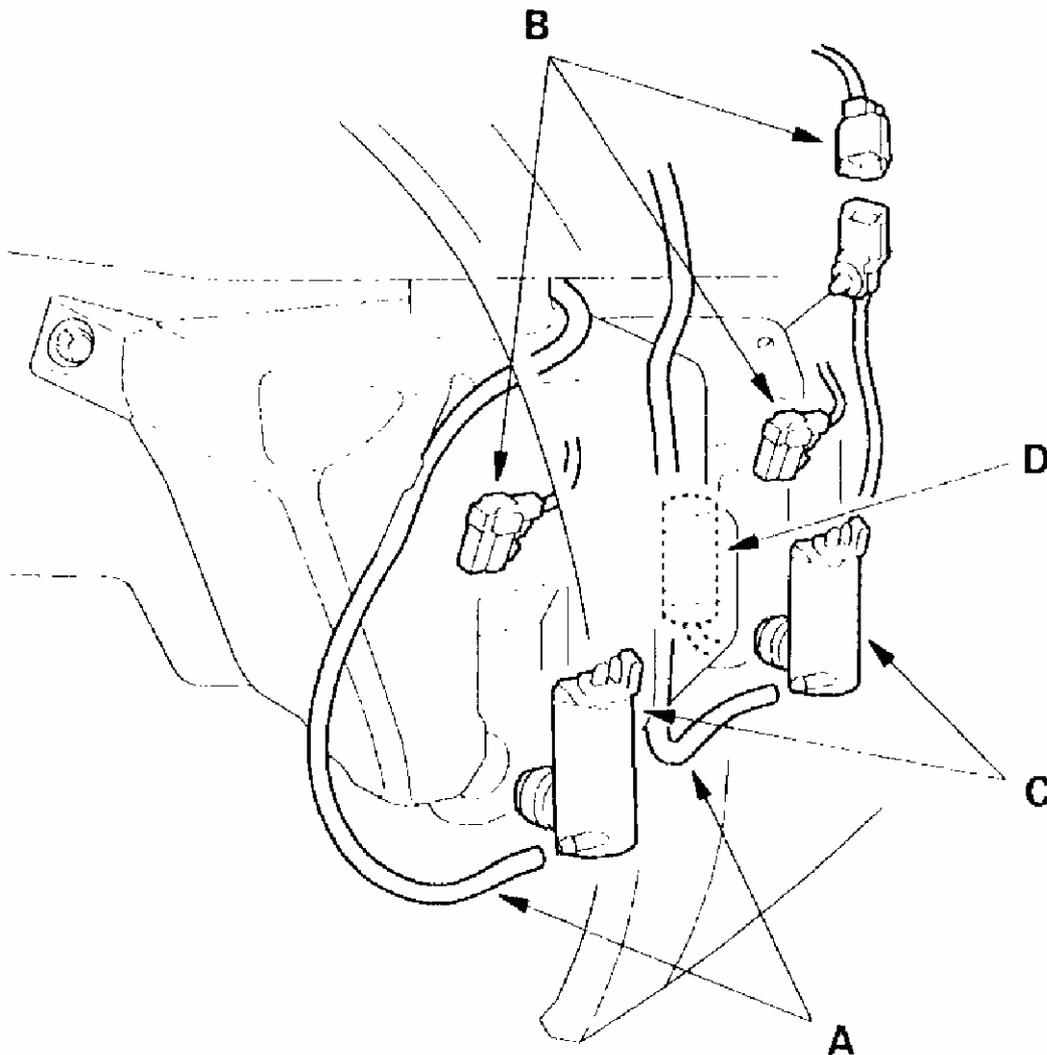
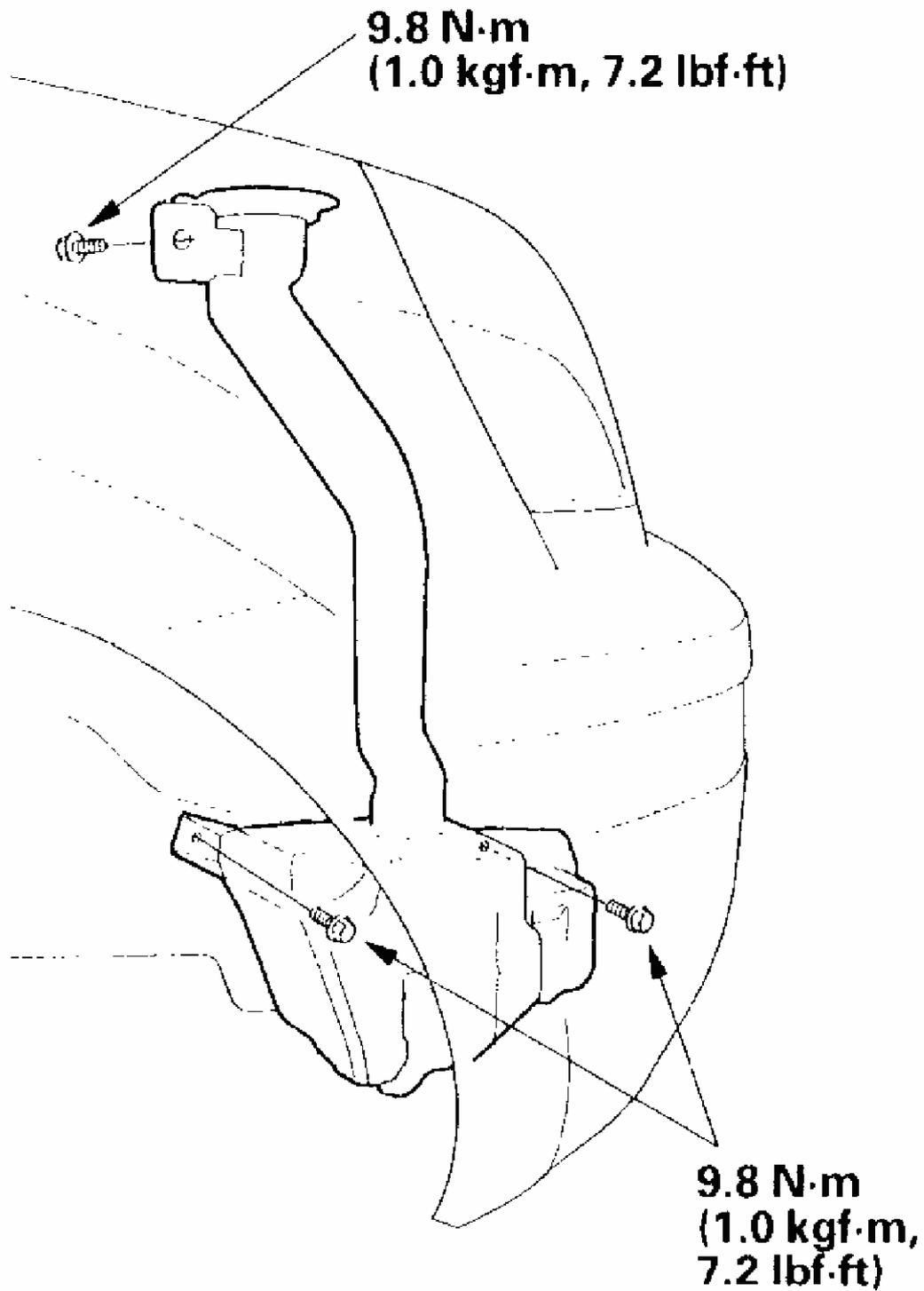


Fig. 29: Disconnecting The Washer Tubes

Courtesy of AMERICAN HONDA MOTOR CO., INC.

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



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Fig. 30: Removing The Washer Reservoir
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2004 Honda Pilot EX

2003-04 ACCESSORIES & EQUIPMENT Wipers/Washer System - Pilot

5. Install in the reverse order of removal. Make sure the washer motor operates properly.

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