Horn: Testing and Inspection
Test A: Horn Does Not Sound

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE HORN DOES NOT SOUND

CONDITIONS	DETAILS/RESULTS/ACTIONS
A1 RETRIEVE THE DIAGNOSTIC TROUBLE CODES	
	[2] Using the recorded results from vehicle security module self-test. • Are any DTCs recorded? → **Yes** If DTC B1217 is retrieved, GO to **A3**. If any other DTC is retrieved, REFER to Multifunction Electronic Control Module (General Module). → **No** GO to **A2**.
A2 CHECK THE INOPERATIVE HORN FUNCTION	
	[1] Depress the horn switch. • Does the horn sound? → **Yes** GO to **A3**. → **No** GO to **A6**.
A3 CHECK THE VEHICLE SECURITY MODULE OUTPUT	
	[1] Trigger the vehicle security module active command HORN OUTPUT ON on the diagnostic tool. • Does the horn sound? → **Yes** GO to **A17**. → **No** GO to **A4**.

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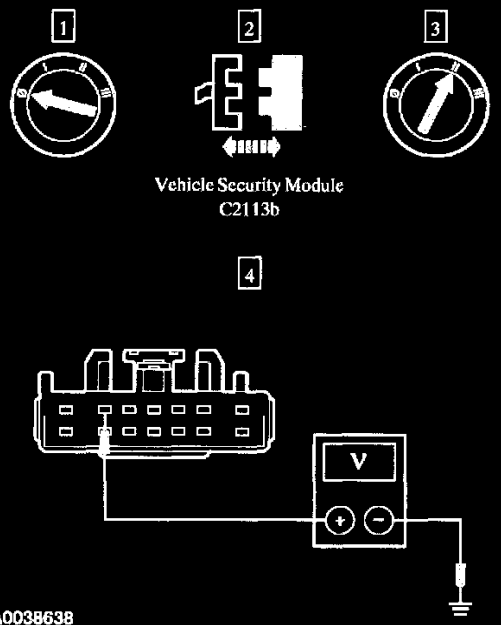
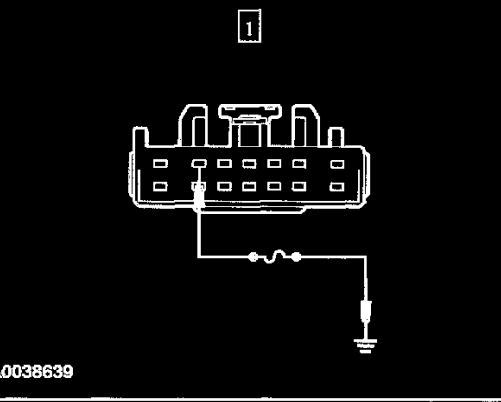
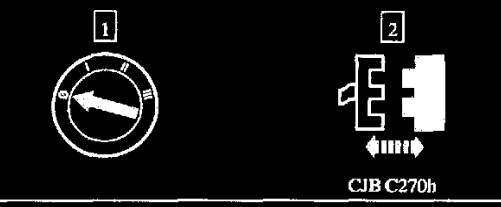
DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE HORN DOES NOT SOUND (Continued)

CONDITIONS	DETAILS/RESULTS/ACTIONS
A4 CHECK THE CENTRAL JUNCTION BOX FOR SHORT TO POWER	
	4 Measure the voltage between vehicle security module C2113b pin 6 (harness side), and ground. • Is voltage present? → **Yes** REPAIR or INSTALL a new CJB. TEST the system for normal operation. → **No** GO to **A5**.
A5 CHECK THE CENTRAL JUNCTION BOX FOR SHORT TO POWER	
	1 Connect a fused (10A) jumper wire between vehicle security module C2113b pin 6 (harness side), and ground. • Does the horn sound? → **Yes** GO to **A17**. → **No** REPAIR or INSTALL a new CJB. TEST the system for normal operation.
A6 CHECK CIRCUIT 6 (YE/LG) FOR AN OPEN	
	

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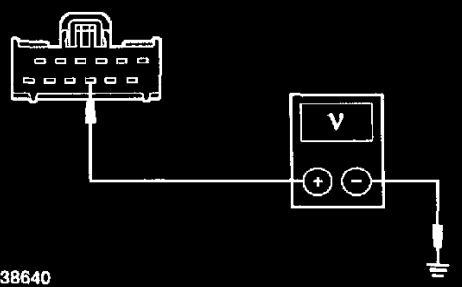
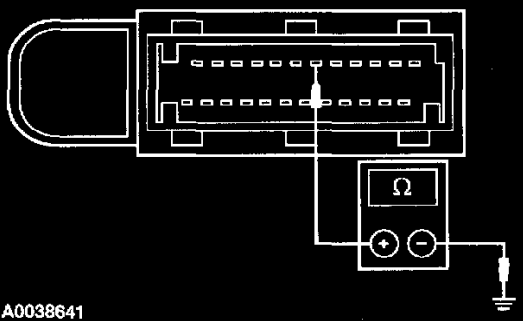
DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE HORN DOES NOT SOUND (Continued)

CONDITIONS	DETAILS/RESULTS/ACTIONS
A6 CHECK CIRCUIT 6 (YE/LG) FOR AN OPEN (Continued)	
3  A0038640	3 Measure the voltage between CJB C270h pin 9, circuit 6 (YE/LG), harness side, and ground. • Is the voltage greater than 10 volts? → **Yes** GO to **A7**. → **No** REPAIR the circuit. TEST the system for normal operation.
A7 CHECK THE HORN SWITCH CIRCUITRY	
1  CJB C270a 2  A0038641	2 Measure the resistance between CJB C270a pin 19, circuit 1 (DB), harness side and ground, while depressing and releasing the horn switch. • Is the resistance less than 5 ohms with the horn switch depressed and greater than 10,000 ohms with the horn switch released? → **Yes** GO to **A8**. → **No** GO to **A11**.
A8 CHECK CIRCUIT 6 (YE/LG) FOR AN OPEN	
1  Horn C131	

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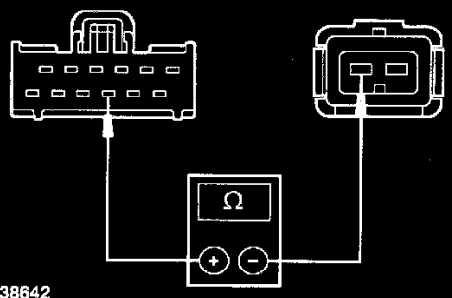
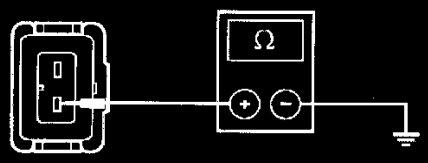
DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE HORN DOES NOT SOUND (Continued)

CONDITIONS	DETAILS/RESULTS/ACTIONS
A8 CHECK CIRCUIT 6 (YE/LG) FOR AN OPEN (Continued)	
2  A0038642	2 Measure the resistance between CJB C270h pin 9, circuit 6 (YE/LG), harness side, and horn C131, circuit 6 (YE/LG), harness side. • Is the resistance less than 5 ohms? → **Yes** GO to **A9**. → **No** REPAIR the circuit. TEST the system for normal operation.
A9 CHECK CIRCUIT 57 (BK) FOR AN OPEN AT THE HORN CONNECTOR	
1  GK8185-A	1 Measure the resistance between horn C131, circuit 57 (BK), harness side, and ground. • Is the resistance less than 5 ohms? → **Yes** GO to **A10**. → **No** REPAIR the circuit. TEST the system for normal operation.
A10 CHECK THE VOLTAGE TO THE HORN	
1  CJB C270a and C270h	

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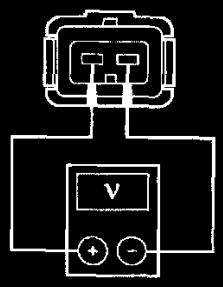
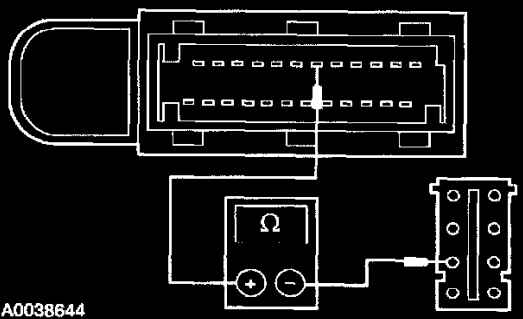
DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE HORN DOES NOT SOUND (Continued)

CONDITIONS	DETAILS/RESULTS/ACTIONS
A10 CHECK THE VOLTAGE TO THE HORN (Continued)	
2  A0038643	2 Measure the voltage between horn C131, circuit 6 (YE/LG), harness side, and horn C131, circuit 57 (BK), harness side, while depressing the horn switch. • Is the voltage greater than 10 volts? → **Yes** INSTALL a new horn. TEST the system for normal operation. → **No** INSTALL a new CJB. TEST the system for normal operation.
A11 CHECK CIRCUIT 1 (DB) FOR AN OPEN	
1  Clockspring C218a 2  A0038644	2 Measure the resistance between CJB C270a pin 19, circuit 1 (DB), harness side, and clockspring C218a, circuit 1 (DB), harness side. • Is the resistance less than 5 ohms? → **Yes** GO to **A12**. → **No** REPAIR the circuit. TEST the system for normal operation.

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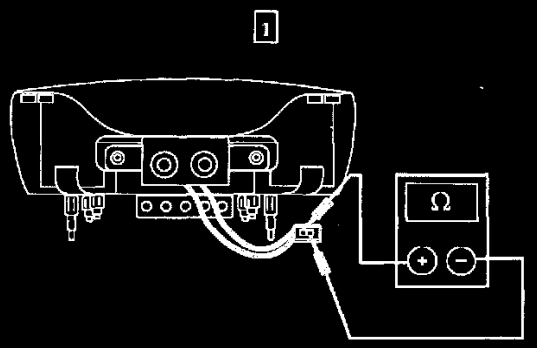
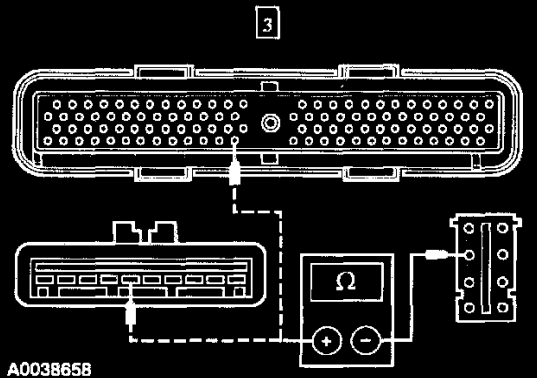
DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE HORN DOES NOT SOUND (Continued)

CONDITIONS	DETAILS/RESULTS/ACTIONS
A12 CHECK THE HORN SWITCH CIRCUITRY	
 K26006-A	1 Measure the resistance between the horn pad switch connector pins under the following conditions: **Steering Wheel Pad Horn Switch Position** / **Resistance** Pressed / Less than 5 Ohms Released / Greater than 10,000 Ohms • Are the resistances correct? → **Yes** GO to **A13**. → **No** INSTALL a new driver side air bag module. TEST the system for normal operation.
A13 CHECK CIRCUIT 848 (DG/OG) GASOLINE OR CIRCUIT 359 (LG/BK) DIESEL FOR AN OPEN	
 Speed Control Servo C122 (gasoline) PCM C175 (diesel)  A0038658	3 Measure the resistance between clockspring C218a, circuit 848 (DG/OG), harness side, and speed control servo C122 pin 6, circuit 848 (DG/OG) or clockspring C218a, circuit 359 (DG/OG)and PCM C175 pin 91, circuit 359 (LG/BK), harness side. • Is the resistance less than 5 ohms? → **Yes** GO to **A14**. → **No** REPAIR the circuit. TEST the system for normal operation.

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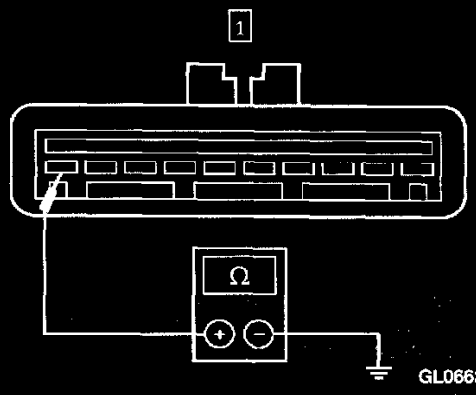
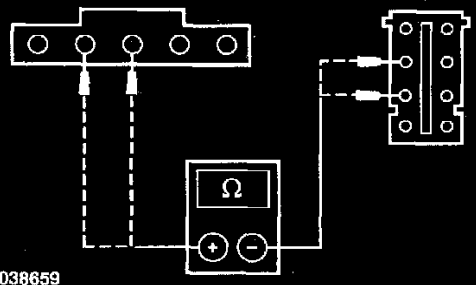
DIAGNOSIS AND TESTING (Continued)

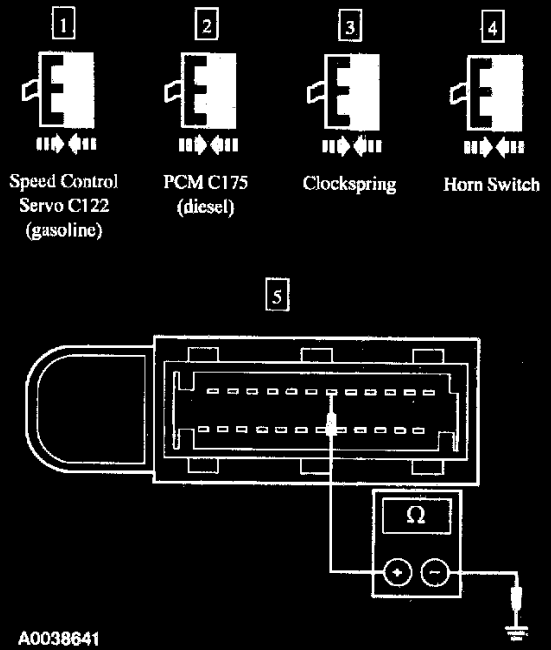
PINPOINT TEST A: THE HORN DOES NOT SOUND (Continued)

CONDITIONS	DETAILS/RESULTS/ACTIONS
A14 CHECK CIRCUIT 57 (BK) FOR AN OPEN	
	1 Measure the resistance between speed control servo C122 or jumper C176 pin 10, circuit 57 (BK), harness side, and ground. • Is the resistance less than 5 ohms? → **Yes** INSTALL a new speed control servo. TEST the system for normal operation. → **No** REPAIR the circuit. TEST the system for normal operation.
A15 CHECK CLOCKSPRING	
	1 Remove the driver side air bag. 2 Measure the resistance between upper clockspring connector circuit 848 (component side), and lower clockspring connector circuit 848 (component side); and upper clockspring connector circuit 1 (component side), and lower clockspring connector circuit 1 (component side). • Are the resistances less than 5 ohms? → **Yes** GO to GO to **A16**. → **No** INSTALL a new clockspring. TEST the system for normal operation.

(Continued)

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE HORN DOES NOT SOUND (Continued)

CONDITIONS	DETAILS/RESULTS/ACTIONS
A16 CHECK THE HORN SWITCH	
	5 Measure the resistance between CJB C276 pin 19, circuit 1 (DB), harness side, and ground, while depressing and releasing the horn switch. • Is resistance less than 5 ohms when the horn switch is depressed and greater than 10,000 ohms with the horn switch released? → **Yes** GO to **A17**. → **No** INSTALL a new horn switch. TEST the system for normal operation.
A17 CHECK FOR CORRECT MODULE OPERATION	
	1 Check for: • corrosion • pushed-out pins 2 Connect any disconnected connectors making sure they are seated correctly. 3 Make sure all other system connectors are fully seated. 4 Operate the system and verify the concern is still present. • Is the concern still present? → **Yes** INSTALL a new vehicle security module. CLEAR the DTCs. REPEAT the self-test. → **No** The system is operating correctly at this time. Concern may have been caused by a loose or corroded connector. CLEAR the DTCs. REPEAT the self-test.