Convertible Top: Testing and Inspection

Test A

PINPOINT TEST A: THE CONVERTIBLE TOP DOES NOT RAISE/LOWER

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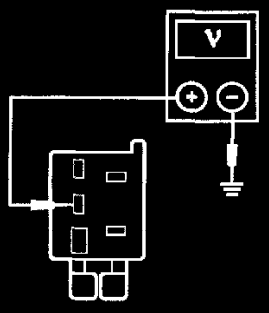
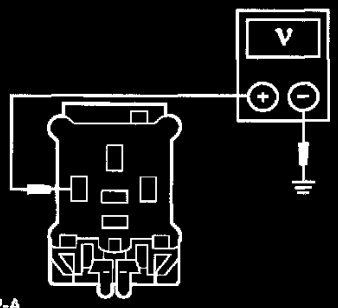
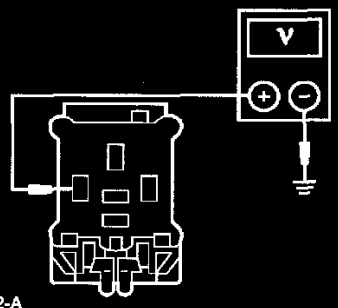
Test Step		Result / Action to Take
A1	**CHECK THE CONVERTIBLE TOP OPERATION**	
	NOTE: The parking brake must be applied for the convertible top system to operate. • Key in ON position. • Depress the convertible top switch in RAISE and LOWER positions while listening for motor operation. • **Does the convertible top motor assembly operate in both directions?**	**Yes** GO to Pinpoint Test C. **No** GO to **A2**.
A2	**CHECK THE POWER SUPPLY TO THE CONVERTIBLE TOP SWITCH**	
	• Key in OFF position. • Disconnect: Convertible Top Switch C3115. • Key in ON position. • Measure the voltage between convertible top switch C3115 pin 4, circuit 296 (WH/PK), harness side and ground.  AN1558-A • **Is the voltage greater than 10 volts?**	**Yes** GO to **A3**. **No** REPAIR circuit 296 (WH/PK). TEST the system for normal operation.

(Continued)

Test A1-A2

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE CONVERTIBLE TOP DOES NOT RAISE/LOWER (Continued)

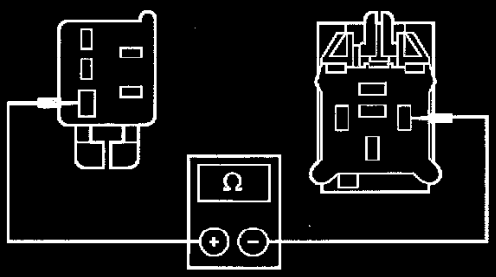
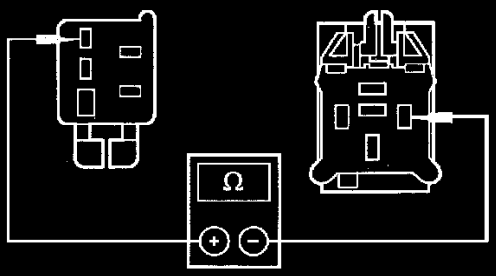
Test Step		Result / Action to Take
A3	CHECK CIRCUIT 588 (VT) FOR AN OPEN	
	• Key in OFF position. • Connect: Convertible Top Switch C3115. • Disconnect: Raise Relay C4063. • Key in ON position. • Depress and hold the convertible top switch in the RAISE position. • Measure the voltage between raise relay C4063 pin 85, circuit 588 (VT), harness side and ground.  AN1562-A • **Is the voltage greater than 10 volts?**	**Yes** GO to **A4**. **No** GO to **A5**.
A4	CHECK CIRCUIT 688 (GY/LB) FOR VOLTAGE	
	• Key in OFF position. • Disconnect: Lower Relay C4064. • Key in ON position. • Depress and hold the convertible top switch in the LOWER position. • Measure the voltage between lower relay C4064 pin 85, circuit 688 (GY/LB), harness side and ground.  AN1562-A • **Is the voltage greater than 10 volts?**	**Yes** GO to **A9**. **No** GO to **A8**.

(Continued)

Test A3-A4

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE CONVERTIBLE TOP DOES NOT RAISE/LOWER (Continued)

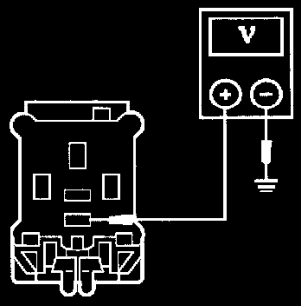
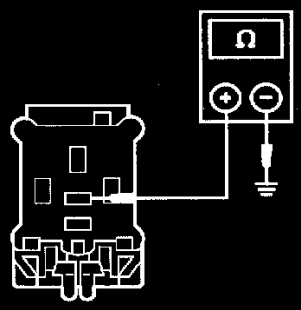
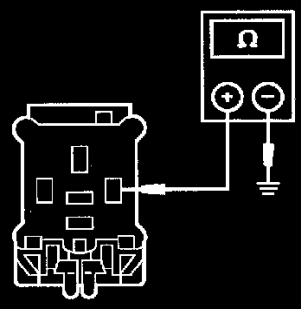
Test Step		Result / Action to Take
A5	CHECK CIRCUIT 588 (VT) FOR OPEN	
	• Key in OFF position. • Disconnect: Convertible Top Switch C3115. • Measure the resistance between convertible top switch C3115 pin 3, circuit 588 (VT), harness side and raise relay C4063 pin 85, circuit 588 (VT), harness side.  GA6011-A • **Is the resistance less than 5 ohms?**	**Yes** INSTALL a new convertible top switch. TEST the system for normal operation. **No** REPAIR Circuit 588 (VT). TEST the system for normal operation.
A6	CHECK CIRCUIT 688 (GY/LB) FOR OPEN	
	• Key in OFF position. • Disconnect: Convertible Top Switch C3115. • Measure the resistance between convertible top switch C3115 pin 5, circuit 688 (GY/LB), harness side and lower relay C4064 pin 85, circuit 688 (GY/LB), harness side.  GA6012-A • **Is the resistance less than 5 ohms?**	**Yes** INSTALL a new convertible top switch. TEST the system for normal operation. **No** REPAIR circuit 688 (GY/LB). TEST the system for normal operation.

(Continued)

Test A5-A6

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE CONVERTIBLE TOP DOES NOT RAISE/LOWER (Continued)

Test Step	Result / Action to Take
A7 CHECK THE BATTERY SUPPLY TO THE RELAYS	
• Measure the voltage between raise relay C4063 pin 87, circuit 170 (RD/LB), harness side and ground; and between lower relay C4064 pin 87, circuit 170 (RD/LB), harness side and ground.  AN1563-A • **Are the voltages greater than 10 volts?**	**Yes** GO to **A8**. **No** REPAIR circuit 170 (RD/LB). TEST the system for normal operation.
A8 CHECK CIRCUIT 1205 (BK) FOR AN OPEN	
• Key in OFF position. • Measure the resistance between raise relay C4063 pin 87A, circuit 1205 (BK), harness side and ground; and between lower relay C4064 pin 87A, circuit 1205 (BK), harness side and ground.  AN1565-A • **Are the resistances greater than 10,000 ohms?**	**Yes** GO to **A9**. **No** REPAIR the circuit. TEST the system for normal operation.
A9 CHECK FOR PARKING BRAKE GROUND	
• Measure the resistance between raise relay C4063 pin 86, circuit 977 (VT/WH), harness side and ground; and between lower relay C4064 pin 86, circuit 977 (VT/WH), harness side and ground.  AN1566-A	**Yes** GO to **A11**. **Yes** GO to **A10**.

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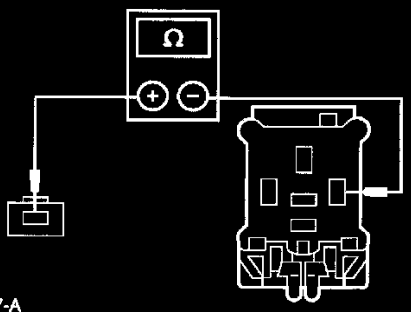
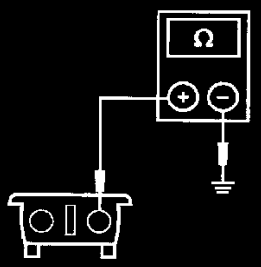
DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE CONVERTIBLE TOP DOES NOT RAISE/LOWER (Continued)

Test Step		Result / Action to Take
A9	CHECK FOR PARKING BRAKE GROUND (Continued)	
	• **Are the resistances less than 5 ohms?**	
A10	CHECK THE PARKING BRAKE SWITCH	
	• Disconnect: Parking Brake Switch C306. • Measure the resistance between raise relay C4063 pin 86, circuit 977 (VT/WH), harness side and parking brake switch C306, circuit 22 (LB/BK), harness side; and between lower relay C4064 pin 86, circuit 977 (VT/WH), harness side and parking brake switch C306, circuit 22 (LB/BK), harness side.  AN1567-A • **Are the resistances less than 5 ohms?**	**Yes** INSTALL a new parking brake switch. TEST the system for normal operation. **No** REPAIR the circuit in question. TEST the system for normal operation.
A11	CHECK THE CONVERTIBLE TOP MOTOR LOWER CIRCUIT	
	• Connect: Raise Relay C4063. • Connect: Lower Relay C4064. • Disconnect: Convertible Top Motor C4062. • Measure the resistance between convertible top motor C4062, circuit 902 (YE), harness side and ground.  AN1568-A • **Is the resistance less than 5 ohms?**	**Yes** GO to **A13**. **No** GO to **A12**.

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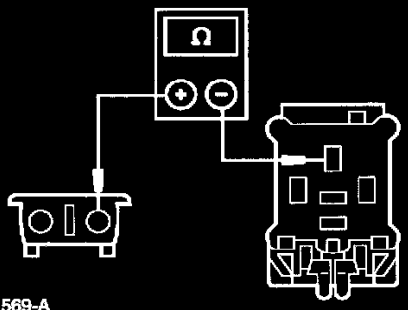
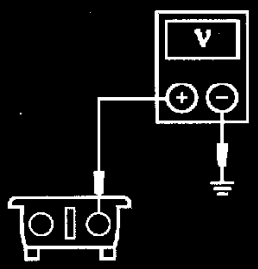
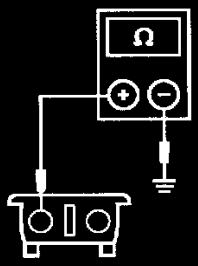
Test A9-A11

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE CONVERTIBLE TOP DOES NOT RAISE/LOWER (Continued)

Test Step	Result / Action to Take
A12 CHECK CIRCUIT 902 (YE) FOR AN OPEN • Disconnect: Lower Relay C4064. • Measure the resistance between lower relay C4064 pin 30, circuit 902 (YE), harness side and convertible top motor C4062, circuit 902 (YE), harness side.  AN1569-A • **Is the resistance less than 5 ohms?**	**Yes** INSTALL a new lower relay. TEST the system for normal operation. **No** REPAIR the circuit. TEST the system for normal operation.
A13 CHECK THE LOWER INPUT TO THE MOTOR • Key in ON position. • Measure the voltage between convertible top motor C4062, circuit 902 (YE), harness side and ground.  AN1570-A • Depress and hold the convertible top switch in the LOWER position. • **Is the voltage greater than 10 volts?**	**Yes** GO to **A14**. **No** INSTALL a new lower relay. TEST the system for normal operation.
A14 CHECK THE CONVERTIBLE TOP MOTOR RAISE CIRCUIT • Key in OFF position. • Measure the resistance between convertible top motor C4062, circuit 903 (RD), harness side and ground.  AN1571-A	**Yes** GO to **A16**. **No** GO to **A15**.

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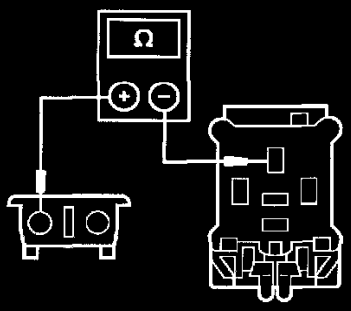
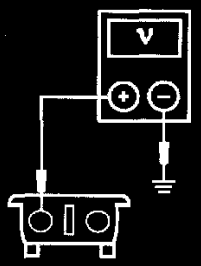
DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST A: THE CONVERTIBLE TOP DOES NOT RAISE/LOWER (Continued)

Test Step		Result / Action to Take
A14	CHECK THE CONVERTIBLE TOP MOTOR RAISE CIRCUIT (Continued)	
	• **Is the resistance less than 5 ohms?**	
A15	CHECK CIRCUIT 903 (RD) FOR AN OPEN	
	• Disconnect: Raise Relay C4063. • Measure the resistance between raise relay C4063 pin 30, circuit 903 (RD), harness side and convertible top motor C4062, circuit 903 (RD), harness side.  AN1572-A • **Is the resistance less than 5 ohms?**	**Yes** INSTALL a new raise relay. TEST the system for normal operation. **No** REPAIR the circuit. TEST the system for normal operation.
A16	CHECK THE RAISE INPUT TO THE MOTOR	
	• Key in ON position. • Depress and hold the convertible top switch in the RAISE position. • Measure the voltage between convertible top motor C4062, circuit 903 (RD), harness side and ground.  AN1573-A • **Is the voltage greater than 10 volts?**	**Yes** INSTALL a new convertible top motor. TEST the system for normal operation. **No** INSTALL a new raise relay. TEST the system for normal operation.

Test A14-A16