


















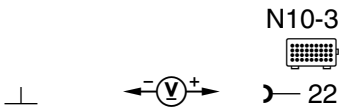
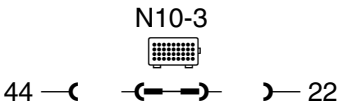
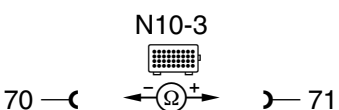
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	B1010 B1011	Voltage supply Circuit 30E, 31E	N10-3  61 —  — 75		11 – 14 V	Wiring.
2.0	B1016 B1400 B1401	Voltage supply Circuit 30A, 31A (Front power windows)	N10-3  5 —  — 44		11 – 14 V	Wiring.
3.0	B1010 B1011	Voltage supply Circuit 15R	  N10-3  — 3	Ignition: ON	11 – 14 V	Wiring.
4.0	B1010 B1011	Voltage supply Circuit 15	  N10-3  — 58	Ignition: ON	11 – 14 V	Wiring.
5.0	B1017 B1402 B1403	Voltage supply Circuit 30B, 31B (Rear power windows)	N10-3  43 —  — 4		11 – 14 V	Wiring.
6.0	B1266	Hydraulic unit motor (A7/5m1) Voltage supply	A7/5x1  — 3		11 – 14 V	Wiring.
6.1		Hydraulic unit motor (A7/5m1)	A7/5k1  — 8	Disconnect hydraulic unit relay (A7/5k1)  Bridge pin 2 with pin 8 of the relay connector using test cable (124 589 37 63 00)	Hydraulic unit motor runs	Hydraulic unit motor (A7/5m1).

11.4 Retractable Hardtop (RH)

Model 170






Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
7.0	B1490	Hydraulic unit relay (A7/5k1) activation from combination control module (N10-3)		Luggage cover in trunk extended and engaged. Trunk lid closed. Ignition: ON Press retract. hardtop switch (S84) backward (open) towards front (close)	11 – 14 V 11 – 14 V	Wiring, ⇒ 17.0, N10-3
7.1		Hydraulic unit relay (A7/5k1)		Ignition: OFF Disconnect connector A from combination control module (N10-3)	Hydraulic unit motor (A7/5m1) runs	A7/5k1
8.0	B1263 B1264 B1265	Overload protection thermocouple (A7/5b1)		Ignition: OFF Disconnect connector A from combination control module (N10-3)	Pump temp.: 77°F (25°C) 250 kΩ Pump temp.: 185°F (85°C) 26 kΩ Pump temp.: 203°F (95°C) 19.5 kΩ Pump temp.: 250°F (120°C) 10 kΩ	Wiring, A7/5b1

11.4 Retractable Hardtop (RH)

Model 170








Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
9.0	B1272 B1279	Retractable hardtop locked limit switch (right rotary latch resp. left) (S69/2 or S69/3)	N10-3  30 —(—(←(V)→ —(—(58	Ignition: ON Retractable hardtop: Locked Unlocked	11 – 14 V < 1 V	Wiring, S69/2, S69/3
10.0	B1271 B1272 B1273 B1278	Retractable hardtop closed limit switch (right pin) (S69/1)	N10-3  32 —(—(←(V)→ —(—(58	Ignition: ON Retractable hardtop: Closed Open	11 – 14 V 0 – 1 V	Wiring, S69/1
11.0	B1271 B1272 B1273 B1277 B1278	Retractable hardtop open/stored limit switch (S69/11)	N10-3  33 —(—(←(V)→ —(—(58	Ignition: ON Retractable hardtop: Closed Open/stored	0 – 1 V 11 – 14 V	Wiring, S69/11
12.0	B1270 B1275	Trunk lid open limit switch (S69/9)	N10-3  52 —(—(←(V)→ —(—(58	Ignition: ON Trunk lid: Closed Open	0 – 1 V 11 – 14 V	Wiring, S69/9


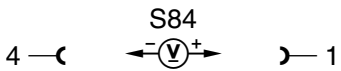
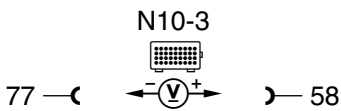

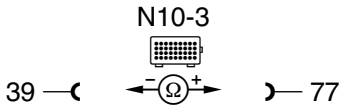
11.4 Retractable Hardtop (RH)

Model 170


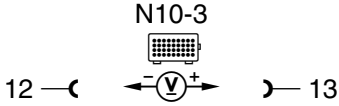
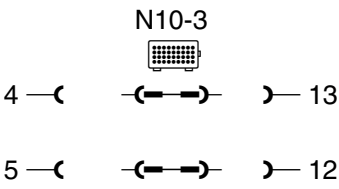


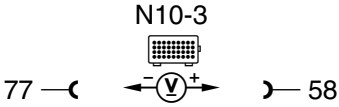
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
13.0	81270 81273 81276	Trunk lid closed/locked left resp right limit switch (S69/7 or S69/8)	 37 —(←(V+)→)— 58	Ignition: ON Retractable hardtop: Closed/locked Open	11 – 14 V 0 – 1 V	Wiring, S69/7 or S69/8
14.0		Retractable luggage cover engaged limit switch (S69/10)	 54 —(←(V+)→)— 58	Ignition: ON Retractable luggage cover: Engaged Not engaged	11 – 14 V 0 – 1 V	Wiring, S69/10
15.0		Trunk lock/trunk illumination rotary latch selector switch (S69/12)	 69 —(←(V+)→)— 58	Ignition: ON Trunk lid: Closed Open	11 – 14 V 0 – 1 V	Wiring, S69/12
16.0	81494	Voltage supply Indicator lamp in retractable hardtop switch (S84)	 68 —(←(V+)→)— 58	Ignition: ON Actuate S84 switch.	11 – 14 V	Wiring, S84, Combination control module (N10-3).
17.0	81269	Combination control module (N10-3) activation from retractable hardtop switch (S84)	 28 —(←(V+)→)— 58  29 —(←(V+)→)— 58	Ignition: ON Press S84 switch towards: Open Close	11 – 14 V 11 – 14 V	Wiring, S84



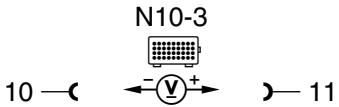
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
18.0		Retractable hardtop switch (S84) illumination		Ignition: ON Switch lights on.	11 – 14 V	Wiring.
19.0		Ground connection for the left front power window switch (S21/1) from combination control module (N10-3)		Ignition: ON	11 – 14 V	Wiring, Combination control module (N10-3).
20.0		Left front power window switch (S21/1)		Ignition: OFF Disconnect connector A from combination control module (N10-3) Press S21/1 switch to:	Close 200 Ω Open 750 Ω Express down (one-touch automatic) < 1 Ω	Wiring, ⇒ 19.0, S21/1

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
21.0	B1400	Left front power window motor (M10/3) activation from combination control module (N10-3)	<p>N10-3</p> 	<p>Ignition: ON</p> <p>Press left front power window (S21/1) switch to:</p> <p style="text-align: right;">Open</p> <p style="text-align: right;">Close</p>	<p>11 – 14 V</p> <p>–11 to –14 V</p>	<p>Wiring, ⇒ 20.0, N10-3</p>
22.0	B1400	Left front power window motor (M10/3)	<p>N10-3</p> 	<p>Ignition: OFF</p> <p></p> <p>See notes: 22/1</p> <p>Disconnect connector A from combination control module (N10-3).</p> <p></p> <p>Bridge pin 4 with pin 13 using test cable 124 589 37 63 00</p>	<p>Window opens.</p>	<p>Wiring, M10/3</p>
23.0		Ground connection for the right front power window switch (S21/2) from combination control module (N10-3)	<p>N10-3</p> 	<p>Ignition: ON</p>	<p>11 – 14 V</p>	<p>Wiring, Combination control module (N10-3).</p>


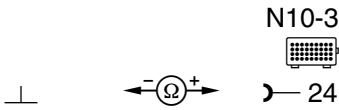
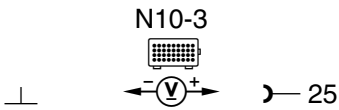
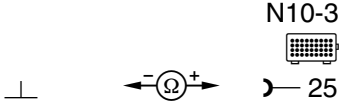
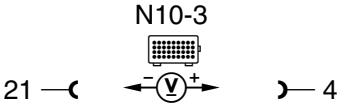
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
24.0	B1121	Right front power window switch (S21/2)		Ignition: OFF Disconnect connector A from combination control module (N10-3). Press right front power window (S21/2) switch to: Close Open Express down (one-touch automatic)	200 Ω 750 Ω < 1 Ω	Wiring, ⇒ 23.0, S21/2
25.0	B1401	Right front power window motor (M10/4) activation from combination control module (N10-3)		Ignition: ON Press right front power window (S21/2) switch to: Open Close	11 – 14 V –11 to –14 V	Wiring, ⇒ 24.0, N10-3


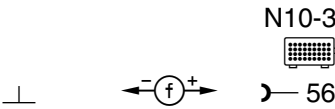
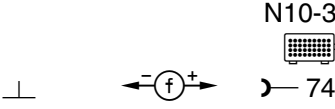
11.4 Retractable Hardtop (RH)

Model 170

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
31.1		Retractable hardtop solenoid valve (A7/5y1)		Ignition: OFF Disconnect connector A from combination control module (N10-3).	11 – 12.5 Ω at temp. 68°F (20°C). 16 – 17.5 Ω at temp. 250°F (120°C).	Wiring, A7/5y1
32.0	B1491	Trunk lid solenoid valve (A7/5y2) activation from combination control module (N10-3)		Ignition: ON Press retractable hardtop switch (S84) to: Open (towards back) Close (towards front)	11 – 14 V < 1 V	⇒ 17.0, ⇒ 32.1, N10-3
32.1		Trunk lid solenoid valve (A7/5y2)		Ignition: OFF Disconnect connector A from combination control module (N10-3).	11 – 12.5 Ω at temp. 68°F (20°C). 16 – 17.5 Ω at temp. 250°F (120°C).	Wiring, A7/5y2
33.0	B1493	Gong in instrument cluster (A1) activation from combination control module (N10-3)		Drive with retractable hardtop unlocked > 3 mph (5 km/h)	11 – 14 V Gong sounds.	Wiring, Gong, N10-3

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
34.0	B1267 B1268	VSS signal status		Ignition: ON Vehicle stationary. Drive vehicle > 3 mph (5 km/h).	2.9 – 3.2 Hz 20 – 30 Hz	Wiring, ASR/SPS control module (N47-1).
35.0	B1267	Speed signal		0 mph Drive vehicle: 20 mph (30 km/h) 35 mph (50 km/h)	0 Hz 200 Hz 331 Hz	Wiring. ASR/SPS control module (N47-1).