
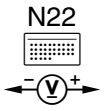

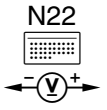

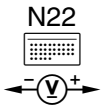

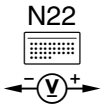

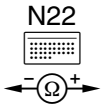



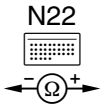


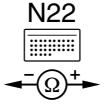


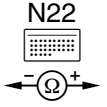


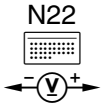




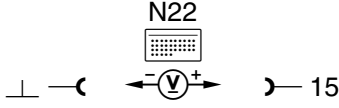

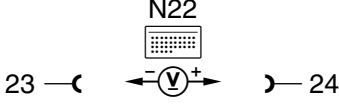

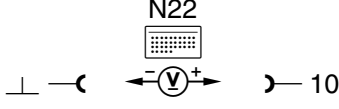

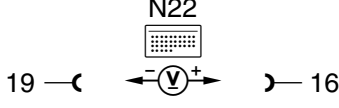



Electrical Test Program – Test

⇒ 		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0		A/C pushbutton control module (N22) Voltage supply Circuit 30		 on right connector (210 589 00 63 00).	11 – 14 V	Wiring, ⇒ 1.1, Circuit 31
1.1		Circuit 30		 on right connector (210 589 00 63 00).	11 – 14 V	Wiring, Circuit 31
2.0		Voltage supply Circuit 15		 on right connector (210 589 00 63 00). Ignition: ON	11 – 14 V	Wiring.
3.0		Voltage supply Circuit 15x		 on left connector (210 589 00 63 00). Ignition: ON	11 – 14 V	Wiring.
4.0	B1226	In-car temperature sensor (B10/4) with aspirator Resistance		Ignition: OFF  on left connector (210 589 00 63 00). Disconnect N22 from  .	°C ≈ kΩ 10 ≈ 19.0 – 21.0 20 ≈ 11.9 – 13.0 30 ≈ 7.7 – 8.4 45 ≈ 4.2 – 4.6	Wiring, B10/4


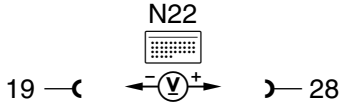

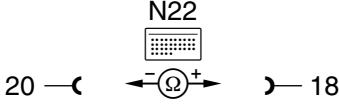


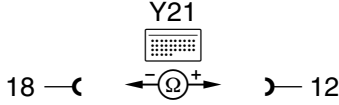

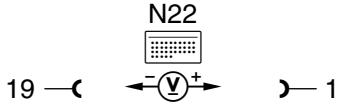


Electrical Test Program – Test

		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
5.0	B1230	Evaporator temperature sensor (B10/6) Resistance		Ignition: OFF  on left connector (202 589 15 63 00). Disconnect N22 from  .	$^{\circ}\text{C} \hat{=} \text{k}\Omega$ 10 $\hat{=} 5.2 - 5.8$ 20 $\hat{=} 3.2 - 3.6$ 30 $\hat{=} 2.0 - 2.3$ 45 $\hat{=} 1.1 - 1.25$	Wiring, B10/6
6.0	B1233	Refrigerant temperature sensor (B12/1) Resistance		Ignition: OFF  on left connector (202 589 15 63 00). Disconnect N22 from  .	$^{\circ}\text{C} \hat{=} \text{k}\Omega$ 20 $\hat{=} < 13$ 40 $\hat{=} < 5.5$ 50 $\hat{=} < 3.7$ 60 $\hat{=} < 2.5$ 70 $\hat{=} < 1.8$	Wiring, B12/1
7.0	B1228	Heater core temperature sensor (B10/1), left Resistance		Ignition: OFF  on left connector (202 589 15 63 00). Disconnect N22 from  .	$^{\circ}\text{C} \hat{=} \text{k}\Omega$ 10 $\hat{=} 19.0 - 21.2$ 20 $\hat{=} 11.9 - 13.2$ 30 $\hat{=} 7.7 - 8.4$ 45 $\hat{=} 4.2 - 4.6$	Wiring, B10/1
8.0	B1232	Refrigerant pressure sensor (B12) Voltage supply		 on left connector (202 589 15 63 00). Ignition: ON	4.75 – 5.25 V	Wiring, B12, N22



















Electrical Test Program – Test

		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
9.0		Diagnostic output Voltage		 on left connector (202 589 15 63 00). Ignition: ON	11 – 14 V	Wiring, N22
10.0	B1422	Serial Interface (K1)		 on left connector (202 589 15 63 00). Ignition: ON	6 – 8 V	Wiring.
11.0		Serial Interface (K2)		 on right connector (202 589 15 63 00). Ignition: ON	6 – 8 V	Wiring.
12.0	B1421	Auxiliary fan (M4) Activation Voltage		 on right connector (210 589 00 63 00). Ignition: ON Press AUTO and  > 10 secs. End test: Press AUTO and  > 10 secs.	> 2 V Auxiliary fans (M4) run.	Wiring, N22, N65


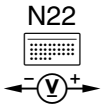


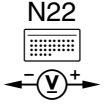


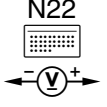


Electrical Test Program – Test

		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
13.0		A/C Pushbutton control module (N22), 12 V output Voltage		Ignition: ON  on right connector (210 589 00 63 00).	11 - 14 V	Wiring, N22
14.0	B1416	Coolant circulation pump (M13) Resistance		 on right connector (210 589 00 63 00). Ignition: OFF Disconnect N22 from  .	2 - 4 Ω	Wiring, M13
15.0	B1417 B1418	Duovalve (Y21) Resistance		Ignition: OFF Disconnect N22 from  (210 589 00 63 00).	8 - 15 Ω	Wiring, Y21
16.0		Blower regulator (A32n1) Control Voltage		 on right connector (210 589 00 63 00). Ignition: ON 	MIN > 0.7 V MA > 0.5 V	Wiring, A32


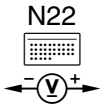


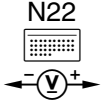


Electrical Test Program – Test

		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
17.0	B1419	A/C compressor (A9) activation Voltage	 19 —  — 25	 on right connector (210 589 00 63 00). Engine: At Idle A/C compressor:  A/C compressor: 	< 1 V 11 – 14 V	Wiring, N22
18.0	B1455	Switch over block (Y11/3), Defroster outlet Long stroke Voltage	 23 —  — 18	 on right connector (210 589 00 63 00). Ignition: ON Press 	11 – 14 V	Wiring, Y11/3
19.0	B1454	Switch over block (Y11/3), Defroster outlet Short stroke Voltage	 22 —  — 18	 on right connector (210 589 00 63 00). Ignition: ON Press 	11 – 14 V	Wiring, Y11/3
20.0	B1451	Switch over block (Y11/3), Diverter valve center vent Voltage	 15 —  — 18	 on right connector (210 589 00 63 00). Ignition: ON N22 display: "Lo" Press 	11 – 14 V	Wiring, Y11/3

Electrical Test Program – Test

		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
21.0	B1452	Switch over block (Y11/3), Blend air flap center vent Voltage		 on right connector (210 589 00 63 00). Ignition: ON Press 	11 – 14 V	Wiring, Y11/3
22.0	B1457	Switch over block (Y11/3), Footwell flap long stroke Voltage		 on right connector (210 589 00 63 00). Ignition: ON Press 	11 – 14 V	Wiring, Y11/3
23.0	B1457	Switch over block (Y11/3), Footwell flap short stroke Voltage		 on right connector (210 589 00 63 00). Ignition: ON Press 	11 – 14 V	Wiring, Y11/3

Electrical Test Program – Test

		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
24.0	B1453	Switch over block (Y11/3), Fresh/recirculated air flap 80% Voltage		 on right connector (210 589 00 63 00). Ignition: ON  is illuminated.	11 – 14 V	Wiring, Y11/3
25.0	B1454	Switch over block (Y11/3), Fresh/recirculated air flap 20% Voltage		 on right connector (210 589 00 63 00). Ignition: ON  is illuminated.	11 – 14 V	Wiring, Y11/3