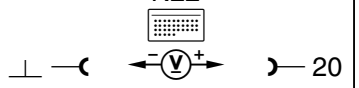
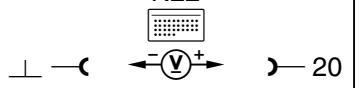
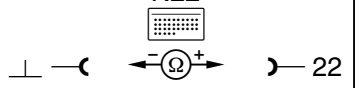
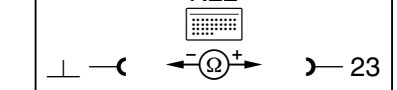
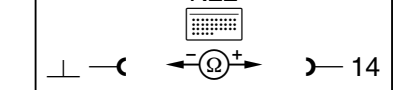
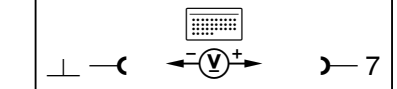
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0		**A/C pushbutton control module (N22)** Voltage supply Circuit 30	N22 19 — (V) — 8	⌨ on right connector.	11 – 14 V	Wiring, ⇒ 1.1, Circuit 31
1.1		**Circuit 30**	N22 ⊥ — (V) — 8	⌨ on right connector.	11 – 14 V	Wiring, Circuit 31
2.0		**Voltage supply** **Circuit 15**	N22 19 — (V) — 9	⌨ on right connector. Ignition: **ON**	11 – 14 V	Wiring.
3.0		**Voltage supply** **Circuit 15x**	N22 ⊥ — (V) — 11	⌨ on **left** connector. Ignition: **ON**	11 – 14 V	Wiring.
4.0	B1226	**In-car temperature sensor (B10/4)** **with aspirator** Resistance	N22 ⊥ — (Ω) — 20	Ignition: **OFF** **Soft top completely closed (Model 208.465)** ⌨ 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 **Model 208.465:** ⇒ 4.1

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.1		**Voltage supply from connected A/C pushbutton control module (N22) to RB control module (power soft top) (N52)** **Model 208.465 only**	N22  ⊥ — (— V —) — 20	N22 connected. Soft top completely **closed**. Ignition: **ON**	Approx. 2.7 V	N22, N52, Readout actual values using HHT, If values are OK: ⇒ 4.2
4.2		Bridge B10/4 with soft top open **Model 208.465 only**	N22  ⊥ — (— V —) — 20	N22 connected. Soft top completely **opened**. Ignition: **ON**	Approx. 0.0 V	N52, Readout actual values using HHT.
5.0	B1230	**Evaporator temperature sensor (B10/6)** Resistance	N22  ⊥ — (— Ω —) — 22	Ignition: **OFF** on left connector (202 589 15 63 00). Disconnect N22 from .	°C ≙ kΩ 10 ≙ 5.2 – 5.8 20 ≙ 3.2 – 3.6 30 ≙ 2.0 – 2.3 45 ≙ 1.1 – 1.25	Wiring, B10/6

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
6.0	B1233	**Refrigerant temperature sensor (B12/1)** Resistance	N22  ⊥ — 13	Ignition: **OFF** on left connector (202 589 15 63 00). Disconnect N22 from .	°C ≙ kΩ 20 ≙ < 13 40 ≙ < 5.5 50 ≙ < 3.7 60 ≙ < 2.5 70 ≙ < 1.8	Wiring, B12/1
7.0	B1228	**Heater core temperature sensor (B10/1), left** Resistance	N22  ⊥ — 23	Ignition: **OFF** on left connector (202 589 15 63 00). Disconnect N22 from .	°C ≙ kΩ 10 ≙ 19.0 – 21.2 20 ≙ 11.9 – 13.2 30 ≙ 7.7 – 8.4 45 ≙ 4.2 – 4.6	Wiring, B10/1
8.0	B1228	**Heater core temperature sensor (B10/1), right** Resistance	N22  ⊥ — 14	Ignition: **OFF** on left connector (202 589 15 63 00). Disconnect N22 from .	°C ≙ kΩ 10 ≙ 19.0 – 21.2 20 ≙ 11.9 – 13.2 30 ≙ 7.7 – 8.4 45 ≙ 4.2 – 4.6	Wiring, B10/1
9.0	B1232	**Refrigerant pressure sensor (B12)** Voltage supply	N22  ⊥ — 7	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
10.0		**Diagnostic output** Voltage	N22 ⊥ — (V) — 1	on left connector (202 589 15 63 00). Ignition: **ON**	11 – 14 V	Wiring, N22
11.0	B1422	**Serial Interface (K1)** Voltage	N22 ⊥ — (V) — 18	on left connector (202 589 15 63 00). Ignition: **ON**	6 – 8 V	Wiring.
12.0	B1459	**Serial Interface (K2)** Voltage	N22 ⊥ — (V) — 10	on right connector (202 589 15 63 00). Ignition: **ON**	> 0.3 V ~	Wiring.
13.0	B1421	**With Auxiliary fan (M4) only Activation** Voltage	N22 ⊥ — (V) — 16	on right connector (210 589 00 63 00). Ignition: **ON** Press both AUTO buttons > 10 secs. **End test**: Press AUTO and ⟲ > 10 secs.	> 2 V Auxliary fans (M4) run **or** Engine/climate control electric cooling fan runs.	Wiring, N22, N65/1

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
14.0		**A/C Pushbutton control module (N22), 12 V output** Voltage	N22 19 — (V) — 28	Ignition: **ON** on right connector (210 589 00 63 00).	11 - 14 V	Wiring, N22
15.0	B1416	**Coolant circulation pump (M13)** Resistance	N22 20 — (Ω) — 28	on right connector (210 589 00 63 00). Ignition: **OFF** Disconnect N22 from .	3 - 7 Ω	Wiring, M13
16.0	B1417 B1418	**Duovalve (Y21)** Resistance	Y21 21 — (Ω) — 12	Ignition: **OFF** Disconnect N22 from (210 589 00 63 00).	30 - 40 Ω	Wiring, Y21
17.0		**Blower regulator (A32n1) Activation** Voltage	N22 19 — (V) — 1	on right connector (210 589 00 63 00). Ignition: **ON** MIN MA	 > 0.9 V > 5.0 V	Wiring, A32

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
18.0	B1419	**A/C compressor (A9)** **Activation** Voltage	N22 19 — (V) — 25	on right connector (210 589 00 63 00). Engine: **At Idle** A/C compressor: EC A/C compressor:	 < 1 V 11 – 14 V	Wiring, N22
19.0	B1423	**Switch over block (Y11), (15 connections)** Voltage	N22 6 — (V) — 28	on right connector (210 589 00 63 00). Ignition: **ON**	> 2 V	Wiring, Y11