






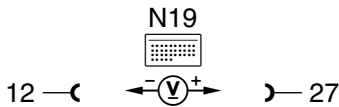


Electrical Test Program – Test

		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0		Voltage supply Circuit 30			11-14 V	Wiring, Circuit 31, ⇒ 1.1
1.1		Circuit 30			11-14 V	Wiring.
2.0		Voltage supply Circuit 15		Ignition: ON	11-14 V	Wiring.
3.0		Voltage supply Circuit 15x		Ignition: ON	11-14 V	Wiring.
4.0		In-car temperature sensor (with aspirator blower) (B10/4) Resistance		Ignition: OFF Disconnect N19 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


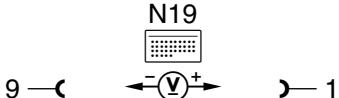
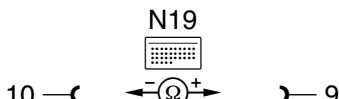

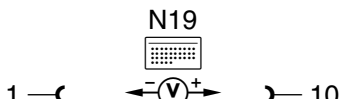


Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
5.0	B1230	Evaporator temperature sensor (B10/6) Resistance		Ignition: OFF Disconnect N19 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
6.0	B1228	Left heater core temperature sensor (B10/1) Resistance		Ignition: OFF Disconnect N19 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
7.0	B1229	Right heater core temperature sensor (B10/2) Resistance		Ignition: OFF Disconnect N19 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	B1232	Refrigerant pressure sensor (B12) Voltage		Ignition: ON	bar ≙ V 2 ≙ 0.5–0.75 10 ≙ 1.4–1.8 18 ≙ 2.4–2.8 28 ≙ 3.5–4.0	Wiring, B12, ⇒ 8.1, N19

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
8.1		Voltage		Ignition: ON	4.75-5.25 V	Wiring, B12, N19
9.0	B1421	Auxiliary fan (M4) Activation		Engine: At idle Disconnect connector from refrigerant pressure sensor (B12).	>0.5 V	Wiring, Pulse module (N65), Or AIR control module (N65/1)
10.0		Diagnostic output		Ignition: ON	11-14 V	Wiring, N19
11.0	B1419	A/C compressor (A9) Activation		Engine: At idle A/C compressor: is A/C compressor: is not illuminated.	<1 V 11 – 14 V	Wiring, A9, N19
12.0	B1416	Coolant circulation pump (M13) Resistance		Ignition: OFF Disconnect connector from M13	2-4 Ω	Wiring, M13
13.0	B1420	Idle speed increase Voltage		Engine: At idle is not illuminated.	<1 V >2 V	Wiring, N19

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
14.0	B1417	Left-side water valve (Y21y1) Voltage supply		Ignition: ON Temperature selector wheels: Red range detent Blue range detent	After 15 seconds: <1 V 11 – 14 V	Wiring, ⇒ 1.1, N19
14.1		Left duovalve (Y21y1) Resistance		Ignition: OFF Disconnect N19 from  .	20-35 Ω	Y21
15.0	B1418	Right-side water valve (Y21y2) Voltage		Ignition: ON Both temperature selector wheels: Red range detent Blue range detent	<1 V 11 – 14 V	Wiring, ⇒ 1.1, N19
15.1		Right duovalve (Y21y2) Resistance		Ignition: OFF Disconnect N19 from  .	20-35 Ω	Y21

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy										
16.0		Blower regulator (A32n1) Voltage		Ignition: ON Blower switch in fan stage: <table style="margin-left: 20px;"> <tr><td>1</td><td>1.1 – 1.8 V</td></tr> <tr><td>2</td><td>2.0 – 2.6 V</td></tr> <tr><td>3</td><td>2.8 – 3.2 V</td></tr> <tr><td>4</td><td>3.6 – 4.2 V</td></tr> <tr><td>5</td><td>5.0 – 6.0 V</td></tr> </table>	1	1.1 – 1.8 V	2	2.0 – 2.6 V	3	2.8 – 3.2 V	4	3.6 – 4.2 V	5	5.0 – 6.0 V		Wiring, N19
1	1.1 – 1.8 V															
2	2.0 – 2.6 V															
3	2.8 – 3.2 V															
4	3.6 – 4.2 V															
5	5.0 – 6.0 V															
17.0	B1454	Fresh/recirculated air flap switchover valve (Y13) Resistance		Disconnect from N19	45-65 Ω	Wiring.										
18.0	B1422	Serial Interface K1		Engine: At Idle	> 2 V ~	Wiring.										
19.0	B1459	Serial Interface K2		Engine: At Idle	> 2 V ~	Wiring.										

Electrical Test Program – Test

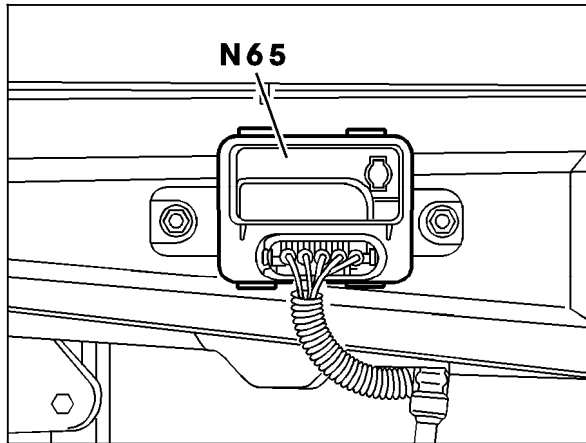


Figure 1

P83.40-0312-01

N65/1 AIR control module