

## Air Conditioning (A/C), (Tempmatic) - Test

⇒	Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
1.0	Voltage supply Circuit 15	9 — C		Ignition: ON	11-14 V <i>12V</i>	Wiring.
2.0	Ground circuit 31 Resistance	┴ — C		Ignition: OFF Disconnect N19 from	0 Ω	Wiring.
3.0	In-car temperature sensor (B10/4) Voltage	9 — C		Ignition: ON Temperature selector: Red range detent	°C V 20 1.9 <i>1.012</i>	Wiring, B10/4
3.1	In-car temperature sensor (B10/4) Resistance	12 — C		Ignition: OFF Disconnect N19 from	°C k Ω 20 2.1 25 1.7 40 0.9 <i>2.6k</i>	Wiring, B10/4
4.0	Icing protection temperature sensor (R35) Voltage	9 — C		Ignition: ON	°C V 0 2.0 - 2.4 15 1.4 - 1.8 <i>0.6V</i>	Wiring, R35
4.1	Icing protection temperature sensor (R35) Resistance	11 — C		Ignition: OFF Disconnect N19 from	°C k Ω 6 3.6 15 2.3 22 1.7 25 1.5 <i>1.23</i>	Wiring, R35
5.0	Activation voltage Temperature reduction Voltage	9 — C		Ignition: ON Temperature selector: From blue range detent turn temperature selector to red detent stop	>2 V <i>2.75</i> >3 V <i>3.5</i>	Wiring, S98s2
5.1	Activation voltage Temperature increase Voltage	9 — C		Ignition: ON Temperature selector: From blue range detent turn temperature selector to red detent stop	>3 V <i>4.2</i> >4 V <i>3.1</i>	Wiring, S98s2
6.0	Actuator motor Blend air flap actuator motor (M16/8) Voltage	9 — C		Ignition: ON Temperature selector: From blue range detent turn temperature selector to red detent stop	<1V 11-14 V	Wiring, M16/8
6.1	Actuator motor Blend air flap actuator motor (M16/8) Resistance	8 — C		Ignition: OFF Disconnect N19 from	0.12 k Ω	Wiring, M16/8
7.0	Actuator motor Blend air flap actuator motor (M16/8)	9 — C		Ignition: ON Temperature selector: From Red range detent stop turn temperature selector to blue detent	<1 V 11-14 V	Wiring, M16/8
8.0	Activation of: A/C switch (S98s3) to A/C pushbutton control module (N19) Voltage	9 — C		Ignition: ON A/C button is illuminated, Blower stage 4 A/C button is not illuminated, OR Blower stage = 0	<1 V <i>0</i> 11 - 14 V <i>button on 12</i>	Wiring, S98s3 <i>10.8 button off</i>
8.1	Activation of: A/C pushbutton control module (N19) to All Activity Module (N10) Voltage	9 — C 11 — C		Ignition: ON A/C button is illuminated, Blower stage 4 Insert bridge: 124 589 37 63 00	>3 V <i>0V</i> <1 V	Wiring, N19 <i>0.6 V Blower off</i>
9.0	Refrigerant pressure sensor (B12)	A — C		Disconnect refrigerant pressure sensor connector Ignition: ON	4.75-5.25 V	Wiring, B12, N10
10.0	Outside temperature sensor (B10/5) Resistance (as of 12/99)	3 — C		Ignition: OFF Disconnect N19 from	°C k Ω 20 2.1 25 1.7 40 0.9 50 0.6 <i>0L</i>	Wiring, B10/5