









Diagnosis – Reading Actual Values – via Hand-Held tester (HHT)

1. Review 11, 14, 15, 21, 22
2. Connect HHT, see section 0

Test step/Test sequence 	Test condition	Nominal value	Possible cause/Remedy ¹⁾
01 Circuit 30		11 – 14 V	Wiring, Battery.
02 Engine temperature	Ignition: ON Start engine and bring to operating temperature.	Operating temperature approx. 80° C	Wiring, ECT sensor (B11/4), All Activity Module (AAM) (N10).
03 Outside air temperature	Ignition: ON	Based on yearly season, approx. 20° C	Wiring, Outside temperature indicator temperature sensor (B14), All Activity Module (AAM) (N10).
04 Blower relay (F1k21) Voltage supply	Ignition: ON Blower set to stage 4	ON OFF	Wiring, F1k21, Blower motor (M2), All Activity Module (AAM) (N10).
05 Engine cooling fan stage 1 relay (F1k26)	Ignition: ON	ON OFF	Wiring, F1k26, Auxiliary fan (M4), All Activity Module (AAM) (N10).

Diagnosis – Reading Actual Values – via Hand-Held tester (HHT)

Test step/Test sequence 	Test condition	Nominal value	Possible cause/Remedy ¹⁾
 Circulation pump relay (F1k19)	Ignition: ON	ON OFF	Wiring, F1k19, Coolant circulation pump (M13), All Activity Module (AAM) (N10).
 Refrigerant pressure	Start engine.  button is illuminated. Blower motor set to stage 4	12 bar	23 ⇒ 9.0
 A/C compressor (A9)	Start engine.  button is illuminated. Blower motor set to stage 4	ON OFF	23 ⇒ 8.0, All Activity Module (AAM) (N10), A9
 Activate A/C system	Ignition: ON	YES NO	Wiring, A/C pushbutton control module (N19), All Activity Module (AAM) (N10)