
















Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	<b>Instrument cluster (A1)</b> Voltage supply Terminal 30	<p>A1</p> <p>3 —  ←  → 11 (1A.3) (1A.11)</p> <p>12 —  ←  → 11 (1A.12) (1A.11)</p>	Ignition: <b>OFF</b> Remove Instrument cluster (A1) Disconnect connector 1 (30-pin)	11 – 14 V	Fuse 34 in fuse and relay box (F1), Wiring, ⇒ 1.1
1.1	Voltage supply Terminal 15	<p>A1</p> <p>3 —  ←  → 9 (1A.3) (1A.9)</p>	Ignition: <b>ON</b>	11 – 14 V	Fuse 37 in fuse and relay box (F1), Wiring, A1
2.0	<b>HHT interface</b> Connection between A1 and data link connector (X11/4)	<p>A1</p> <p>X11/4 15 —  ←  → 11 (1B.11)</p>	Ignition: <b>OFF</b> Remove A1, Disconnect connector 1 (30-pin)	5 Ω	Wiring.
3.0	<b>ECL and windshield washer level:</b> ECL level switch (S41), windshield washer level switch (S42) and wiring	<p>A1</p> <p>12 —  ←  → 4 (1B.12) (1B.4)</p>	Ignition: <b>OFF</b> Coolant level and windshield washer fluid level: OK Remove A1 Disconnect connector 1 (30 pin).	233 - 297 Ω	Wiring ⇒ 3.1 Values O.K.: A1

## 1.14 Instrument Cluster (IC)

Model 170 (as of 6/97) with FSS

### Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
3.1	ECL switch (S41) Resistance	1 —  — 2	Ignition: <b>OFF</b> Remove expansion tank Disconnect connector at S41 Coolant level OK	102 - 120 Ω	S41 Values O.K.: ⇒ 3.2
3.2	Windshield washer fluid level switch (S42) Resistance	1 —  — 2	Ignition: <b>OFF</b> Disconnect connector at S42 Washer fluid level OK	145 - 185 Ω	S42
4.0	<b>CAN bus data lines</b> Resistance	9 —  — 10 (1B.9) (1B.10)	Ignition: <b>OFF</b> Disconnect connector 1 (All control modules are connected to CAN)	around 60 Ω	CAN: -//-, □ □ - N47 N3 Values O.K.: ⇒ 4.1
4.1	CAN bus data lines Voltage Low-data line	⊥ —  — 2 A1 (2B.1)	Ignition: <b>ON</b>	around 2.3 V	N47 N3 Values O.K.: ⇒ 4.2
4.2	CAN bus data lines Voltage High-data line	⊥ —  — 2 A1 (2B.20)	Ignition: <b>ON</b>	around 2.6 V	N47 N3