Instrument Cluster (IC) - Test

⇒ @	Test scope	Test connection			Test condition	Nominal value	Possible cause/Remedy
1.0	Instrument cluster (A1) Voltage supply Terminal 30	3 — c (A.3)	A1 → ② +) — 11 (A.11)	Ignition: OFF Remove A1 Disconnect connector "A" (18-pin)	11 - 14 V	Fuse 13 in fuse and relay box (F1), Wiring, Values O.K.: ⇒ 1.1
1.1	Voltage supply Terminal15, fused	3 — c (A.3)	A1 → ♥) — 9 (A.9)	Ignition: ON	11 - 14 V	Fuse 22 in fuse and relay box (F1), Wiring, Values O.K.: ⇒ 1.2
1.2	Voltage supply Terminal 15, fused	3 — c (A.3)	A1 → ♥) — 7 (A.7)	Ignition: ON	11 - 14 V	Fuse 10 in fuse and relay box (F1), Wiring, Values O.K.:
2.0	HHT interface Connection between A1 and data link connector (X11/4)	X11/4 15 ── C	+ -®++	A1) — 11 (B.11)	Ignition: OFF Remove A1, Disconnect connector "B" (12-pin)	≤5Ω	Wiring.
3.0	CAN bus data lines Resistance	1 — C (B.9)	A1) — 10 (B.10)	Ignition: OFF Disconnect connector "B" (12- pole) (N3/10 engine control modules is connected to CAN)	around 120 Ω	CAN: -//-,
3.1	CAN bus data lines Voltage Low-data line	⊣ <mark>_</mark> Grd	<u>-</u>	A1) — 10 (B.10)	Ignition: ON	around 2.3 V	N3/10 Values O.K.: ⇒ 3.2
3.2	CAN bus data lines Voltage High-data line	_ Grd	- **	A1) — 9 (B.9)	Ignition: ON	around 2.6 V	N3/10
4.0	Instrument cluster (A1)	9 —c	A1) — 10	Ignition: OFF Disconnect	around 120 Ω	A1

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	CAN bus data input resistance	(B.9)	<u>+</u> -Ω+	(B.10)	connector "B" (12- pole)		
5.0	Steering lock switch (S97/1)	⊣ Grd	A1 →	14 (A.14)	Ignition: OFF Disconnect connector "A" (18-pole) steering locked steering unlocked	< 1 Ω > 20 k Ω	Wiring (S97/1)
6.0	Engine coolant level (ECL) switch (S41) As of 3.98	1—(S41) —2	Ignition: OFF Disconnect connector on S41 and connect resistance substitution unit. Set resistance to $70k\ \Omega$, Start engine, wait up to 1 minute. Set resistance to $30k\ \Omega$, wait up to	ECL warning lamp (A1e11) comes on.	Values O.K.: ECL switch (S41) Values not O.K.: wiring to A1, A1
					1 minute.	ECL warning lamp (A1e11) goes off	