Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	**Signal pickup and activation module (SAM) left front N10/1** Voltage supply circuit 30	N10/1 K40/2 4 —(–V+)— 2 (C1.4 (C1.2)	Remove N10/1 Ignition: **OFF**	11 – 14 V	Wiring
2.0	**Electronic ignition lock control module N73** Voltage supply, circuit 30	N73 3 —(–V+)— 4 (B.3) (A.4) 3 —(–V+)— 5 (B.3) (A.5) 3 —(–V+)— 7 (B.3) (B.7)	Ignition: **OFF** Loosen connectors A and B on N73	11 – 14 V	Wiring
3.0	**HHT interface, connection between N73 and diagnostic connector X11/4**	X11/4 N73 20 —(–Ω+)— 14 (B.14)	Ignition: **OFF**	< 1 Ω	Wiring

Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.0	**CAN Data line between N10/1 and N73** –//–	N73 11 (B.11) — Ω — N10/1 7 (2.7) N73 10 (B.10) — Ω — N10/1 6 (2.6)	Remove connector B on N73 and connector 2 on N10/1	< 1 Ω < 1 Ω	Wiring ⇒ 4.1
4.1	⌐¬	N10/1 6 (2.6) — Ω — 7 (2.7)	Remove connector 2 on N10/1	> 20 kΩ	Wiring ⇒ 4.2
4.2	CAN Data line High ⌐¬ –	N10/1 1 (4.1) — Ω — 6 (2.6)	Remove connectors 2 and 4 on N10/1	> 20 kΩ	Wiring ⇒ 4.3
4.3	CAN Data line Low ⌐¬ –	N10/1 1 (4.1) — Ω — 7 (2.7)	Remove connectors 2 and 4 on N10/1	> 20 kΩ	Wiring ⇒ 4.4
4.4	CAN Data line High ⌐¬ +	N10/1 2 (4.2) — Ω — 6 (2.6)	Remove connectors 2 and 4 on N10/1	> 20 kΩ	Wiring ⇒ 4.5
4.5	CAN Data line Low ⌐¬ +	N10/1 2 (4.2) — Ω — 7 (2.7)	Remove connectors 2 and 4 on N10/1	> 20 kΩ	Wiring

Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
5.0	**Turn signal switch S4s1** Voltage supply circuit 15R	⊥ — V — S4) 4	Remove connector from S4 Circuit 15R: ON OFF	 < 1 V 11 – 14 V	Wiring model 210: f3 model 208: f22 ⇒ 5.1,
5.1	Turn signal switch S4s1 resistance	6 — S4 Ω — 4	Remove connector from S4 Turn signal switch position: right left off	 < 1 Ω 196 - 204 Ω > 20 kΩ	S4
6.0	**Hazard flasher switch S6/1s1 resistance**	⊥ — Ω — N10/1) 5 (1.5)	Loosen connector 1 on N10/1 Hazard flasher switch: on off	 < 1 Ω > 20 kΩ	Wiring, S6/1s1
7.0	**Hazard flasher switch S6/1s1 indicator lamp**	8 (1.8) — N10/1 —) 3 (C1.3)	Loosen connector 1 and C1 on N10/1	Indicator lamp on the switch illuminates	Wiring, S6/1s1 Values OK: N10/1

Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
8.0	**Instrument cluster A1** Audible turn signal indicator A1h2, Left and right turn signal indicator A1e1 and A1e2	N10/1 2 — (—) — 5 (C1.2) 2 — (—) — 5 (C1.2) (2.4)	Remove connectors 2 and C1 from N10/1	Indicator lamps in the instrument cluster must illuminate. Audio indicator must be heard when connecting and disconnecting the bridge.	Wiring A1e A1 Values OK: N10/1
9.0	**Turn signal lamp E3e1** left rear taillamp unit	2 — (—) — 7 (C1.2) (4.7)	Remove connectors 4 and C1 from N10/1	Lamp illuminates	Wiring, Lamp or socket ⇒ 15
10.0	**Left turn signal/side marker lamp E6/1**	2 — (—) — 3 (C1.2) (5.3)	Remove connectors 5 and C1 from N10/1	Lamp illuminates	Wiring, Lamp or socket ⇒ 15
11.0	**Left auxiliary turn signal lamp E22/1**	2 — (—) — 4 (C1.2) (5.4)	Remove connectors 5 and C1 from N10/1	Lamp illuminates	Wiring, Lamp or socket ⇒ 15

Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
12.0	**Turn signal lamp E4e1** right rear taillamp unit	2 (C1.2) — 8 (4.8)	Remove connectors 4 and C1 from N10/1	Lamp illuminates	Wiring, Lamp or socket ⇒ 16
13.0	**Right turn signal/side marker lamp E6/2**	2 (C1.2) — 1 (5.1)	Remove connectors 5 and C1 from N10/1	Lamp illuminates	Wiring, Lamp or socket ⇒ 16
14.0	**Right auxiliary turn signal lamp E22/2**	2 (C1.2) — 2 (5.2)	Remove connectors 5 and C1 from N10/1	Lamp illuminates	Wiring, Lamp or socket ⇒ 16
15.0	**Signal pickup and activation module (SAM) left front N10/1** Left outputs	N10/1 4 (C1.4) — V — 7 (4.7) 4 (C1.4) — V — 3 (5.3) 4 (C1.4) — V — 4 (5.4)	All connectors plugged in Ignition: **ON** Apply left turn signal	11 – 14 V pulsing in turn signal frequency	N10/1

Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
16.0	**Signal pickup and activation module (SAM) left front N10/1** Right outputs	N10/1 4 —()— 8 (C1.4) (4.8) 4 —()— 1 (C1.4) (5.1) 4 —()— 2 (C1.4) (5.2)	All connectors plugged in Ignition: **ON** Apply right turn signal	11 – 14 V pulsing in turn signal frequency	N10/1