Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0		**SBE control module (N42)** Voltage supply, circuit 30	N42 16 (1) — V — 13 (1)	Disconnect connector (1) on SBE control module (N42).	11 – 14 V	Wiring.
		Voltage supply, circuit 15R	N42 16 (1) — V — 11 (1)	Ignition: ON Disconnect connector (1) on SBE control module (N42).	11 – 14 V	Wiring.
2.0		**Left front seat belt buckle switch (S68/1)** Voltaage supply	N42 9 (1) — V — 13 (1)	Disconnect connector (1) on SBE control module (N42). Connect seat belt tongue to buckle.	11 – 14 V < 1 V	Wiring, Left front seat belt buckle switch (S68/1).
3.0		**Right front seat belt buckle switch (S68/2)** Voltaage supply	N42 8 (1) — V — 13 (1)	Disconnect connector (1) on SBE control module (N42). Connect seat belt tongue to buckle.	11 – 14 V < 1 V	Wiring, Right front seat belt buckle switch (S68/2).

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.0		**Left door switch (S17/3)** Voltage supply	N42 15 (1) — (V) — 13 (1)	Disconnect connector (1) on SBE control module (N42). Left door: Open Closed	 < 1 V 11 – 14 V	Wiring, Left door switch (S17/3).
5.0		**Right door switch (S17/4)** Voltage supply	N42 10 (1) — (V) — 13 (1)	Disconnect connector (1) on SBE control module (N42). Right door: Open Closed	 < 1 V 11 – 14 V	Wiring, Right door switch (S17/4).
6.0		**Left SBE motor (A10m1)** Resistance	N42 1 (1) — (Ω) — 2 (1)	Disconnect connector (1) on SBE control module (N42).	1.2 – 3.0 Ω	Wiring, Left SBE motor (A10m1).
7.0		**Left extender arm “retracted“ switch (A10s1)** Resistance	N42 16 (1) — (Ω) — 5 (1)	Seat belt extender arm retracted.	< 1 Ω	Wiring, Left extender arm “retracted“ switch (A10s1).
8.0		**Left extender arm “extended“ switch (A10s2)** Resistance	N42 16 (1) — (Ω) — 6 (1)	Seat belt extender arm extended. Pull on extender arm.	> 20 kΩ < 1 Ω	Wiring, Left extender arm “extended“ switch (A10s2).

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
9.0		**Force limit switch (A10s3)**		Open and close the door. Ignition: **ON** While the seat belt is being extended, apply counter-force aagainst the extender arm with the palm of your hand.	Seat belt extends. Seat belt immediately retracts.	Wiring, Extender arm binding, Force limit switch (A10s3).
10.0		**Right SBE motor (A11m1)** Resistance	N42 1 (2) — (Ω) — 2 (2)	Disconnect connector (2) on SBE control module (N42).	1.2 – 3.0 Ω	Wiring, Right SBE motor (A11m1).
11.0		**Right extender arm “retracted“ switch (A11s1)** Resistance	N42 7 (2) — (Ω) — 5 (2)	Seat belt extender arm retracted.	< 1 Ω	Wiring, Right extender arm “retracted“ switch (A11s1).
12.0		**Right extender arm “extended“ switch (A11s2)** Resistance	N42 7 (2) — (Ω) — 6 (2)	Seat belt extender arm extended. Pull on extender arm.	> 20 kΩ < 1 Ω	Wiring, Right extender arm “extended“ switch (A11s2).

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
13.0		**Force limit switch (A11s3)**		Open and close the door. Ignition: **ON** While the seat belt is being extended, apply counter-force aagainst the extender arm with the palm of your hand.	Seat belt extends. Seat belt immediately retracts.	Wiring, Extender arm binding, Force limit switch (A11s3).