Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0		**Fore/aft switch group (S91/2s1, S92/2s1) with memory** Resistance	N69/1 N69/2 5 (5) — Ω — 3 (5)	Disconnect connector (5) from N69/1 or N69/2. S91/2s1 or S92/2s1: Pressed forward S91/2s1 or S92/2s1: Pressed aft	 approx. 43 Ω approx. 16 Ω	Wiring, S91/2 or S92/2

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
2.0		**Fore/aft motor (M27m1 or M28m1)** Voltage supply	N32/1 N32/2 2 (5) – V + – 1 (5)	Connector 1 on N32/1, N32/2 connected. Backrest to vertical position. Connector 5 disconnected from N32/1, N32/2	< 1 V	Wiring, N32/1, N32/2
				Fore/aft switch (S91/2s1, S92/2s1) pressed forward.	11 – 14 V for approx. 1 sec.	
				Fore/aft switch (S91/2s1, S92/2s1) pressed aft.	–11 to –14 V for approx. 1 sec.	
		Hall-sensor Voltage supply	N32/1 N32/2 5 (5) – V + – 6 (5)		11 – 14 V	N32/1, N32/2
		Hall-sensor	N32/1 N32/2 5 (5) – V + – 6 (5)	Connector 5 connected to N32/1, N32/2. Take reading at socket with connector 5 connected.	7.7 – 8.8 V or 11.3 – 12.7 V	Wiring, M27m1 or M28m1

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
3.0		**Fore/aft motor (M27m1 or M28m1)**	N32/1 N32/2 1 — (5) — 2 (1) 2 — (5) — 11 (1)	**Disconnect** connectors **1 and 5** from N32/1 or N32/2. ⚠ **CAUTION!** **Injury hazard due to crushing!** Bridge sockets 1 and 2 with fused jumper wire 124 589 37 63 00	Motor (M27m1, M28m1) runs.	Wiring, M27m1 or M28m1
4.0		**Front raise/lower switch (S91/2s3, S92/2s3)** Resistance	N69/1 N69/2 7 — (5) — (Ω) — 5 (5)	Disconnect connector (5) from N69/1, N69/2. S91/2s3 or S92/2s3: Press raise S91/2s3 or S92/2s3: Press lower	approx. 43 Ω approx.16 Ω	Wiring, S91/2 or S92/2

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
5.0		**Front raise/lower motor (M27m3)** Voltage supply	N32/1 N32/2 2 (6) – V – 1 (6)	Connector 1 on N32/1, N32/2 connected. Connector 6 disconnected from N32/1, N32/2	 < 1 V	Wiring, N32/1, N32/2
				Raise/lower switch (S91/2s3, S92/2s3) press raise	11 – 14 V for approx. 1 sec.	
				Raise/lower switch (S91/2s3, S92/2s3) press lower	–11 to –14 V for approx. 1 sec.	
		Hall-sensor Voltage supply	N32/1 N32/2 5 (6) – V – 6 (6)		11 – 14 V	N32/1, N32/2
		Hall-sensor	N32/1 N32/2 5 (6) – V – 6 (6)	Connector 6 connected to N32/1, N32/2. Take reading at socket with connector 6 connected.	7.7 – 8.8 V or 11.3 – 12.7 V	Wiring, M27m3 or M28m3

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
6.0		**Front raise/lower motor (M27m3 or M28m3)**	N32/1 N32/2 3 — (1) — (6) — 1 11 — (1) — (6) — 2	**Disconnect** connectors **1 and 6** from N32/1 or N32/2 ⚠ **CAUTION!** **Injury hazard due to crushing!** Bridge sockets 3 and 1 with fused jumper wire 124 589 37 63 00	Motor (M27m3, M28m3) runs.	Wiring, M27m3, M28m3
7.0		**Rear raise/lower switch (S91/2s2, S92/2s2)** Resistance	N69/1 N69/2 3 — (5) — (5) — 5	Disconnect connector (5) from N69/1, N69/2 S91/2s2 or S92/2s2: Press raise S91/2s2 or S92/2s2: Press lower	 approx. 169 Ω approx. 75 Ω	Wiring, S91/2 or S92/2

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
8.0		**Raise/lower motor (M27m2 or M28m2)** Voltage supply	N32/1 N32/2 2 (4) — V — 1 (4)	Connector 1 on N32/1, N32/2 connected. Connector 4 disconnected from N32/1, N32/2	< 1 V	Wiring, N32/1, N32/2
				Raise/lower switch (S91/2s3, S92/2s3) pressed to raise.	11 – 14 V for approx. 1 sec.	
				Raise/lower switch (S91/2s3, S92/2s3) pressed to lower.	–11 to – 14 V for approx. 1 sec.	
		Hall-sensor Voltage supply	N32/1 N32/2 5 (4) — V — 6 (4)		11 – 14 V	N32/1, N32/2
		Hall-sensor	N32/1 N32/2 5 (4) — V — 6 (4)	Connector 4 connected to N32/1, N32/2. Take reading at socket with connector 4 connected.	7.7 – 8.8 V or 11.3 – 12.7 V	Wiring, M27m2, M28m2

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
9.0		**Front raise/lower motor (M27m2 or M28m2)**	N32/1 N32/2 1 — (4) — 3 (1) 2 — (4) — 11 (1)	**Disconnect** connectors **1 and 4** from N32/1 or N32/2 ⚠ **CAUTION!** **Injury hazard due to crushing!** Bridge sockets 3 and 1 with fused jumper wire 124 589 37 63 00	Motor (M27m2, M28m2) runs.	Wiring, M27m2 or M28m2
10.0		**Backrest/fore (S91/2s5, S92/2s5)** Resistance	N69/1 N69/2 6 — (5) — 5 (5)	Disconnect connector (5) from N69/1, N69/2 S91/2s5 or S92/2s5: Pressed foreward S91/2s5 or S92/2s5: Pressed aft	approx. 43 Ω approx. 16 Ω	Wiring, S91/2 or S92/2

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
11.0		**Fore/aft motor (M27m5 or M28m5)** Voltage supply	N32/1 N32/2 2 (7) – V + 1 (7)	Connector 1 on N32/1, N32/2 connected. Connector 7 disconnected from N32/1, N32/2.	< 1 V	Wiring, N32/1, N32/2
				Fore/aft switch (S91/2s5, S92/2s5) pressed forward.	11 – 14 V for approx. 1 sec.	
				Fore/aft switch (S91/2s5, S92/2s5) pressed aft.	– 11 to –14 V for approx. 1 sec.	
		Hall-sensor Voltage supply	N32/1 N32/2 5 (7) – V + 6 (7)		11 – 14 V	N32/1, N32/2
		Hall-sensor	N32/1 N32/2 5 (7) – V + 6 (7)	Connector 7 connected to N32/1, N32/2. Take reading at socket with connector 7 connected.	7.7 – 8.8 V or 11.3 – 12.7 V	Wiring, M27m5 or M28m5

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
12.0		**Backrest fore/aft motor (M27m5 or M28m5)**	N32/1 N32/2 4 (7) — 3 (1) 2 (7) — 11 (1)	**Disconnect** connectors **1 and 7** from N32/1 or N32/2. Backrest to verical position. ⚠ **CAUTION!** **Injury hazard due to crushing!** Bridge sockets 4 and 3 with fused jumper wire 124 589 37 63 00	Motor (M27m5, M28m5) runs.	Wiring, M27m5 or M28m5
13.0		**Front raise/lower switch (S91/2s4, S92/2s4)** Resistance	N69/1 N69/2 5 (5) — 7 (5)	Disconnect connector (5) from N69/1, N69/2. S91/2s4 or S92/2s4: Pressed raise S91/2s4 or S92/2s4: Pressed lower	 approx. 170 Ω approx.75 Ω	Wiring, S91/2 or S92/2

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
14.0		**Head restraint raise/lower motor (M27m4 or M28m4)** Voltage supply	N32/1 N32/2 1 (7) — V — 4 (7)	Connector 1 on N32/1, N32/2 connected. Connector (7) disconnected from N32/1, N32/2.	< 1 V	Wiring, S91/2, S92/2, N32/1, N32/2
				Raise/lower switch (S91/2s4, S92/2s4) press to raise.	– 11 to – 14 V for approx. 1 sec.	
				Raise/lower switch (S91/2s4, S92/2s4) press to lower.	11 – 14 V for approx. 1 sec.	
		Hall-sensor Voltage supply	N32/1 N32/2 5 (7) — V — 3 (7)		11 – 14 V	N32/1, N32/2
		Hall-sensor	N32/1 N32/2 2 (7) — V — 3 (7)	Connector 7 connected to N32/1, N32/2. Take reading at socket with connector 7 connected.	7.7 – 8.8 V or 11.3 – 12.7 V	Wiring, M27m4 or M28m4

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
15.0		**Head restraint raise/lower motor (M27m4 or M28m4)**	N32/1 N32/2 1 (7) — 3 (1) 4 (7) — 11 (1)	**Disconnect** connector (**1 and 7**) from N32/1 or N32/2. ⚠ **CAUTION!** **Injury hazard due to crushing!** Bridge sockets 1 and 3 with fused jumper wire 124 589 37 63 00	Motor (M27m4, M28m4) runs.	Wiring, M27m4 or M28m4
16.0		**Backrest unlocking (M27m8 or M28m8) (Motor) (Model 208 only)**	N32/1 N32/2 5 (8) — 1 (8)	Ignition: **OFF**. Backrest locked in upright position, Take reading at connector S91/3: Activated S91/3: Not activated	 11 – 14 V for approx. 4 secs. < 1V	Wiring, ⇒ 19.0 M27m8 or M28m8

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
17.0		**Left front door ESA switch group (S91/2, S92/2)** Resistance		Disconnect connector (5) from N69/1, N69/2.		Wiring, S91/2 or S92/2
			N69/1 N69/2 3 — (-Ω+) — 5	**Button 1:** Rest position Press button:	 > 20K Ω approx. 330 Ω	
			N69/1 N69/2 7 — (-Ω+) — 5	**Button 2:** Rest position Press button:	 > 20K Ω approx. 330 Ω	
			N69/1 N69/2 6 — (-Ω+) — 5	**Button 3:** Rest position Press button:	 > 20K Ω approx. 169 Ω	
			N69/1 N69/2 6 — (-Ω+) — 5	**Green button:** Rest position Press button:	 > 20K Ω approx. 330 Ω	

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
18.0		**Left/right front door ESA switch group with memory (S91/2, S92/2)** Voltage supply	N69/1 N69/2 5 (5) — V — 1 (5)	Parking lights: **ON**	9 – 13 V	N69/1, N69/2
19.0		**Left front seatback release microswitch (S91/3, S92/3)** (Model 208 up to 6/98 only)	N32/1 N32/2 2 (8) — Ω — 6 (8)	**Disconnect** connector **1** from N32/1, N32/2 Backrest: Locked Unlocked	 > 20 K Ω < 1 K Ω	Wiring, S91/3, S92/3
20.0		**Left/right front seatback release microswitch (S91/3, S92/3) with left/right front hibernation microswitch (S91/1s2, S92/1s2)** **Resistance test of switching circuit** (Model 208 as of 06/98 only)	N32/1 N32/2 2 (8) — Ω — 6 (8)	Ignition: **OFF** **Disconnect** connector **1** from N32/1, N32/2 Backrest: Vertical (locked) Pull on unlock lever of seatback, seatback remains in vertical position.	 > 20 K Ω < 1 K Ω	Wiring, S91/3, S92/3 If values are OK; ⇒ 20.1

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
20.1		**Left/right front seatback release microswitch (S91/3, S92/3) with left/right front hibernation microswitch (S91/1s2, S92/1s2) Resistance test of switching circuit**	N69/1 N69/2 2 (8) — V — 6 (8)	Ignition: **OFF** Tilt backrest forward approx. 20 degrees.	< 1 Ω	S91/1s2, S92/1s2
21.0		**Left/right front seatback inclination microswitch (S91/1, S92/1)** (Model 208 only)	N32/1 N32/2 1 (9) — Ω — 2 (9)	**Disconnect** connector **1** from N32/1, N32/2 Backrest: Locked (vertical): Tilted forward:	 > 20 K Ω < 1 K Ω	Wiring, S91/1, S92/1