Test step	Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
⇒ 1.0	Right ESA control module (N32/2) Voltage supply	$\begin{array}{c} N32/2 \\ 1 - \mathbf{c}  \mathbf{c}  \mathbf{v}^{+} \\ 1 - \mathbf{c}  \mathbf{c}  \mathbf{v}^{+} \\ 1 - \mathbf{c}  \mathbf{c}  \mathbf{v}^{+} \\ \mathbf{c}  \mathbf{c}  \mathbf{v}^{+} \\ \mathbf{c} \\ \mathbf{c} \end{array}$	)-2 )-4 )-3 (2)	Connector (2) unplugged from N32/2.	11 – 14 V 11 – 14 V 11 – 14 V 11 – 14 V	Wiring, CF relay module (K24).
⇒ 2.0	Fore/aft switch (S92s1) Resistance	N32/2 4 <b>(</b> - <sup>-</sup> - <sup>(</sup> <sup>(</sup> ) <sup>+</sup> →	<b>&gt;— 3</b> (1)	Connector (1) unplugged from N32/2. Press switch (S92s1): forward backward	approx. 2.2 kΩ approx. 43 Ω approx. 16 Ω	Wiring, S92
⇒ 3.0	Fore/aft motor (M28m1) Voltage supply Up to 11/96	N32/2 2 ① + (7)		Connector (1) plugged at N32/1. Set backrest vertical. Connector (7) unplugged from N32/1. Press switch (S92s1): forward backward	< 1 V 11 – 14 V –11 to –14 V	Wiring, S92, N32/2
		$\begin{array}{c} N32/2 \\ 3 \_ & \textcircled{-} & \textcircled{-} & \textcircled{-} \\ 4 \_ & \textcircled{-} & \textcircled{-} & \textcircled{-} \\ (7) \end{array}$	<b>—</b> — 5 <b>—</b> — 5 (7)		approx. 5 V approx. 5 V	

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒[ 3.0]	Fore/aft motor (M28m1) Voltage supply Hall sensor As of 12/96	N32/2 2 _ <b></b> ← ① + (7)	Connector (1) plugged at N32/1. (7) Set backrest vertical. Connector (7) unplugged from N32/2. Press switch (S92s1): forward	< 1 V for 1 second: 11 – 14 V	Wiring, S92, N32/2
		N32/2 5 ← ① +→ (7)	_ 4 (7)	for 1 second: -11 to -14 V 11 - 14 V	N32/2
		N32/2 5 <b>( →</b> ) (7)	<ul> <li>4 Open connector (7) and</li> <li>(7) connect to N32/2</li> </ul>	7.7 – 8.8 V or 11.3 – 12.7 V	Wiring, M28m1

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 4.0	Fore/aft motor (M28m1) Resistance	N32/2 4 ( ) 1 (2) (7) 1 ( ) 2 (2) (7)	Connector (7) unplugged from N32/2. Danger of being wedged in. Bridge sockets 4 and 1 with fused jumper wire 124 589 37 63 00	Motor (M28m1) runs.	Wiring, M28m1
⇒ 5.0	Front raise/lower switch (S92s3) Resistance	$\begin{array}{c} N32/2 \\ 4 - ( - \bigcirc + ) - 2 \\ (1) \end{array} $	Connector (1) unplugged from N32/2. Press switch (S92s3): raise front lower front	approx. 2.2 kΩ approx. 43 Ω approx. 16 Ω	Wiring, S92

Test step	Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
⇒ 6.0	Front raise/lower	N32/2		Connector (1) plugged in at		Wiring,
	motor (M28m3)	2 ◄_♥+►	<b>_</b> _ 1	N32/2.		S92,
	Voltage supply	(6)	(6)	Connector (6) unplugged		N32/2
				from N32/2.	< 1 V	
	Up to 11/96			Press switch (S92s3):		
				raise front	11 – 14 V	
				lower front	–11 to –14 V	
		N32/2				
		3€	<b>_</b> _ 5		approx. 5 V	
		(6)	(6)			
			. ,			
		N32/2				
		4 ◄¯(¥)⁺►	<b>_</b> _ 5		approx. 5 V	
		(6)	(6)			
		X - /	(-)			

Test step	Test scope	Test conne	ection	Test condition	Nominal value	Possible cause/Remedy
⇒[6.0]	Front raise/lower			Connector (1) plugged in at		Wiring,
	motor (M28m3)	2 🖛	<u>-</u> <u>(</u> ) <u>+</u> 1	N32/2.		S92,
	Voltage supply	(6)	(6)	Connector (6) unplugged		N32/2
	Hall sensor			from N32/2.	< 1 V	
				Press switch (S92s3):		
	As of 12/96			raise front	for 1 second:	
					11 – 14 V	
					for 1 second:	
					–11 to –14 V	
			132/2			
		5 🔫	<u>_</u> 4		11 – 14 V	N32/2
		(6)	(6)			
		Ν	132/2			
		5-( -		Open connector (6) and	7.7 – 8.8 V	Wiring,
		(6)		connect to N32/2		M28m3
			(0)		11.3 – 12.7 V	

Test step	Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
⇒ 7.0	Front raise/lower motor (M28m3) Resistance	N32/2 4 (	>— 1 (6) >— 2 (6)	Connectors (6) and (2) unplugged from N32/2. Danger of being wedged in. Bridge sockets 4 and 1 with fused jumper wire 124 589 37 63 00	Motor (M28m3) runs.	M28m3
⇒ 8.0	Rear raise/lower switch (S92s2) Resistance	N32/2 4 <b>(</b> <sup>-</sup> · <sup>-</sup> · <sup>-</sup> · <sup>+</sup> · <sup>−</sup>	<b>)— 3</b> (1)		approx. 2.2 kΩ approx. 160 Ω approx. 75 Ω	Wiring, S92

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 9.0	Rear raise/lower motor (M28m2) Voltage supply Up to 11/96	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Connector (1) plugged in N32/1. Connector (5) unplugged from N32/2. Press switch (S92s2):	< 1 V	Wiring, S92, N32/2
		N32/2 4 $ \xrightarrow{-} (\underline{\hat{V}})^{+}$ $-$ 5 (5) (5)		11 – 14 V –11 to –14 V approx. 5 V	
		N32/2 3 $ \xrightarrow{-}$ $\underbrace{\mathbb{V}}^+$ $-$ 5 (5) (5)		approx. 5 V	

Test step	Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
⇒[9.0]	Rear raise/lower	N32/2		Connector (1) plugged in at		Wiring,
	motor (M28m2)	2 ←	<b>_</b> _ 1	N32/1.		S92,
	Voltage supply	(5)	(5)	Connector (5) unplugged		N32/2
	Hall sensor			from N32/2.	< 1 V	
				Press switch (S92s2):		
	As of 12/96			raise front	for 1 second:	
					11 – 14 V	
				lower front	for 1 second:	
					–11 to –14 V	
		N32/2				
		5 ←	<b>_</b> 4		11 – 14 V	N32/2
		(5)	(5)			
		N32/2				
		5- <b>( -(</b> ) <sup>+</sup>	┣—4	Open connector (5) and	7.7 – 8.8 V	Wiring,
		(5)	(5)	connect to N32/2	or	M28m2
					11.3 – 12.7 V	

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 10.0	Rear raise/lower motor (M28m2) Resistance	N32/2 4 (	Connector (5) unplugged from N32/2	Motor (M28m2) runs.	M28m2
		1	•		
⇒ 11.0	Backrest fore/aft switch (S92s5) Resistance	N32/2 4(() <sup>+</sup> ) (1) (1)	Connector (1) unplugged from N32/2. Press switch (S92s5): forward rearward	approx. 2.2 kΩ approx. 43 Ω approx. 16 Ω	Wiring, S92

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 12.0	Backrest fore/aft motor (M28m5) Voltage supply	$\begin{array}{cccc} 2 & & & \underline{} & & \underline{} & & \underline{} & \\ (8) & & & & (8) \end{array}$	Connector (1) plugged in at N32/2. Connector (8) unplugged from N32/2.	<1V	Wiring, S92, N32/2
	Up to 11/96	N32/2 5 - 4 (8) (8) (8)		11 – 14 V −11 to –14 V approx. 5 V	
		$\begin{array}{c} N32/2 \\ 3 \underline{} \phantom{0$		approx. 5 V	

Test step	Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
⇒[12.0]	Rear raise/lower	N32/2		Connector (1) plugged in at	< 1 V	Wiring,
	motor (M28m5)	2 ← ♥+	<b>_</b> _ 1	N32/1.		S92,
	Voltage supply	(8)	(8)	Connector (8) unplugged		N32/2
	Hall sensor			from N32/2.		
				Press switch (S92s5):		
	As of 12/96			raise front	for 1 second:	
					11 – 14 V	
				lower front	for 1 second:	
					–11 to –14 V	
		N32/2				
		4 ◄_ (⊻)+	<b>_</b> _ 5		11 – 14 V	N32/2
		(8)	(8)			
		N32/2				
		4 ( ( ⊻)+-	<b>)</b> — 5	Open connector (8) and	7.7 – 8.8 V	Wiring,
		(8)	(8)	connect to N32/2.	or	M28m5
					11.3 – 12.7 V	

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 13.0	Backrest fore/aft motor (M28m5)	N32/2 4	Connector (2) and (8) unplugged from N32/2.	Motor (M28m5) runs.	M28m5, Wiring.
		1 — <b>( -()</b> )— 2 (2) (8)	Danger of being wedged in. Bridge sockets 4 and 1 with fused jumper wire 124 589 37 63 00		
⇒ 14.0	Head restraint raise/lower switch (S92s4) Resistance	N32/2 4(@+- ) 2 (1) (1)	Connector (1) unplugged from N32/2. Press switch (S92s4): raise lower	approx. 2.2 kΩ approx. 156 Ω approx. 75 Ω	Wiring, S92

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 15.0	Head restraint raise/lower motor (M28m4) Voltage supply	-	Connector (1) plugged in at N32/2. Connector (9) unplugged from N32/2.		Wiring, S92, N32/2
	Up to 11/96	N32/2 5		–11 to –14 V 11 – 14 V approx. 5 V	
		N32/2 3 ← () <sup>+</sup> → 2 (9) (9)		approx. 5 V	

Test step	Test scope	Test c	onnection		Test condition	Nominal value	Possible cause/Remedy
⇒[15.0]	Head restraint raise/lower		N32/2		Connector (1) plugged in at	< 1 V	Wiring,
	motor (M28m4)	4	<u>−<u>(</u><u>)</u>+</u>	<b>_</b> _ 1	N32/1.		S92,
	Voltage supply	(9)		(9)	Connector (9) unplugged		N32/2
	Hall sensor				from N32/2.		
					Press switch (S92s4):		
	As of 12/96				raise	for 1 second:	
						–11 to –14 V	
					lower	for 1 second:	
						11 – 14 V	
			N32/2				
		2	<u>,</u>	<b>_</b> _ 5		11 – 14 V	N32/2
		(9)		(9)			
			N32/2				
		2 — (	<u>,</u>	<b>)</b> — 5	Open connector (9) and	7.7 – 8.8 V	Wiring,
		(9)		(9)	connect to N32/2	or	M28m4
						11.3 – 12.7 V	

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 16.0	Head restraint raise/lower motor (M28m4) Resistance	N32/2 2 ( ) ) (2) (9 1 ( ) ) (2) (9)		Motor (M28m4) runs.	Wiring, M28m4

Test step	Test scope	Test co	onnection		Test condition	Nominal value	Possible cause/Remedy
⇒ 17.0	Right front power seat switch		S92		Connector (1) unplugged		S92
	group (S92), position memory	1 — <b>C</b>	<b>-</b> Ω⁺►		from N32/2.		
	Resistance	(1)		(1)	Memory button 1 switch:		
					Rest position:	approx. 2.2 k $\Omega$	
					Push button:	approx. 167 $\Omega$	
			S92				
		1 —	<u>−¯</u> <u>Ω</u> +	<b>)</b> —2	Memory button 2 switch:		
		(1)		(1)	Rest position:	approx. 2.2 k $\Omega$	
					Push button:	approx. 330 $\Omega$	
			S92				
		1-(	< <u>−</u> Ω+	<b>)</b> — 5	Memory button 3 switch:		
		(1)		(1)	Rest position:	approx. 2.2 k $\Omega$	
					Push button:	approx. 330 $\Omega$	
			S92				
		1-(	<-(Ω) <sup>⊥</sup> ►		Green memory button		
		(1)		(1)	switch:		
					Rest position:	approx. 2.2 k $\Omega$	
					Push button:	approx. 330 $\Omega$	

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 18.0	Right front power seat switch group (S92) Voltage supply		Connector (1) unplugged from N32/2.	approx. 5 V approx. 5 V approx. 5 V	N32/2
⇒19.0	Right seat proximity control module (N32/6) Voltage supply		Connector (4) unplugged from N32/2.	11 – 14 V 11 – 14 V	N32/2

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 20.0	Right seat proximity control module (N32/6) Voltage supply	$\perp  \stackrel{-}{\overset{-}{\overset{-}{\overset{-}{\overset{-}}}} } \longrightarrow 4 $ (4)	Move backrest backward until it rests against soft top compartment wall. Unplug connector (4) from N32/2. Open connector and remove the wiring. Plug the connector in again at N32/2.	> 4 V	Wiring, N32/6
⇒ 21.0	Right front power seat switch group illumination (S92e1) Voltage supply	(1) (1)	S92 removed. Connector (1) unplugged from S92. Parking lamps turned on.	11 – 14 V	Wiring.

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 22.0	Left backrest lock switch (S52/3) (right seat) Right backrest lock switch (S52/4) (right seat) Resistance	4 ( (Ω) +- )- 6 N32/8	Left backrest lock safety package (N32/8) unplugged. Backrest latched. Backrest unlatched. Backrest latched. Backrest unlatched.	< 1 Ω > 20 kΩ < 1 Ω > 20 kΩ	Wiring, S52/3, S52/4
⇒ 23.0	Right front power seat switch group (S92) Resistance	+	Connector (1) disconnected from N32/2.	approx. 2.2 kΩ approx. 2.2 kΩ approx. 2.2 kΩ	Wiring, S92

Test step	Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
⇒ 24.0	Right backrest lock safety package (N32/8) Voltage supply	N32/8 1 <b> (</b>	<b>)</b> —4	N32/8 disconnected. Ignition: <b>ON</b> <b>Note:</b> If N32/8 is unplugged, the acoustical warning from the left backrest lock safety package (N32/7) sounds for approx. 20 seconds.	11 – 14 V	Wiring, ⇒ 24.1
⇒ 24.1	Wiring between the left and right backrest lock safety package	N32/8 5 <b>∢</b> - <sup>-</sup> <sup>-</sup> <sup>-</sup> <sup>-</sup> <sup>-</sup> <sup>-</sup> <sup>+</sup> -		Left and right backrest lock safety packages unplugged.	<1Ω	Wiring.
⇒ 25.0	Right backrest lock safety package (N32/8) Signal output for automatic latch	N32/2 ⊥ <del>-</del> €*	<b>)</b> — 3	Connector (4) unplugged from N32/2. Backrest unlatched. Both doors closed. Ignition: <b>ON</b>	> 4 V	Wiring, N32/8

Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 26.0	Seat belt/backrest lock reminder lamp (A1e9)		Ignition: <b>ON</b> Start engine. Right backrest unlatched. Both doors closed.	Reminder lamp must illuminate.	If the nominal value is obtained: N32/8, Wiring. If the nominal value is <b>not</b> obtained: A1e9, Wiring.
⇒ 27.0	Warning signal from left backrest lock safety package (N32/7) and from right backrest lock safety package (N32/8)		N32/8 unplugged. Connector N32/8 removed. Open connector and remove socket 3. Plug N32/8 into connector again. Ignition: <b>ON</b> Start engine Left and right backrest latched. Both doors closed.	Reminder lamp goes out.	If the nominal value is <b>not</b> obtained: N32/7, Wiring. If the nominal value is obtained: N32/8