⇒		Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
1.0	81119	Center console switch group (S21) Voltage supply	S21 ⊥ ←®+→ >) — 6 (2)	Ignition: OFF	11 – 14 V	Wiring, \Rightarrow 1.1
1.1		Center console switch group (S21) Voltage supply	S21 ← ① → 4 → () (2)) — 6 (2)	Ignition: OFF	11 – 14 V	Wiring, \Rightarrow 1.2
1.2		Center console switch group (S21) Illumination	S21 ⊥ - `(<u>)</u> +→))— 1 (1)	Connector disconnected at S21. Parking lamps: ON	11 – 14 V	Voltage supply, circuit 58d, S21
2.0	81015 81017	Combinationcontrol module (N10-1) Voltage supply Circuit 30C	N10-1 ∭∭ ⊥ - -®+-)) — 6	Ignition: OFF	11 – 14 V	Wiring, \Rightarrow 2.1
2.1		Combinationcontrol module (N10-1) Voltage supply Circuit 31B	N10-1 ↓3 (→- () →) (A)	≻ — 6 (A)	Ignition: OFF	11 – 14 V	Wiring, $\Rightarrow 2.2$

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
2.2	81013	Combinationcontrol module (N10-1) Voltage supply Circuit 15R	$ \begin{array}{c c} & \text{N10-1} \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	Ignition: ON	11 – 14 V	Wiring, $\Rightarrow 2.3$
3.0	81119	Outside rearview mirror- vertical adjustment (S21s6) switch Activate combination control module (N10-1)	$\begin{array}{c} N10-1 \\ \hline \hline \\ 69 - 4 \end{array} \xrightarrow{-} \underbrace{ $	Ignition: ON Set outside rearview mirror-left/right (S21s8): To left mirror S21s6: Press forward S21s6: Press backward	– 11 to – 14 V 11 – 14 V	Wiring, \Rightarrow 1.0 \Rightarrow 3.1 Center console switch group (S21)
3.1		Outside rearview mirror- horizontal adjustment (S21s7) switch Activate combination control module (N10-1)	N1-01 	Ignition: ON Set outside rearview mirror-left/right (S21s8): To left mirror S21s7: Press left S21s7: Press right	4 – 7 V < 1 V 11 – 14 V	Wiring, S21

\Rightarrow		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.0	81119	Outside rearview mirror- vertical adjustment (S21s6) switch Activate combination contro I module (N10-1)	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Ignition: ON Set outside rearview mirror-left/right (s21s8): To right mirror S21s6: Press forward S21s6: Press backward	– 11 to – 14 V 11 – 14 V	Wiring, \Rightarrow 4.1, Center console switch group (S21).
4.1		Outside rearview mirror- horizontal adjustment (S21s7) switch Activate combination contro I module (N10-1)	$ \begin{array}{c} & \overset{N10-1}{\swarrow} \\ \downarrow & \overset{-}{\overset{-}{}} \overset{\bullet}{\textcircled} & \overset{\bullet}{} \overset{\bullet}{\phantom} \overset{\bullet}{\phantom} \overset{\bullet}{} \overset{\bullet}{\phantom} \overset{\bullet}{\phantom} \overset{\bullet}{\phantom} \overset{\bullet}{\phantom} \overset{\bullet}{\phantom} \bullet$	Ignition: ON Set outside rearview mirror-left/right (S21s8): To right mirror S21s7: Press left S21s7: Press right	4 – 7 V < 1 V 11 – 14 V	Wiring, S21

\Rightarrow		Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
5.0	81408	Activation of vertical adjustment motor (M21/5m1) (front passenger mirror) by combination control module (N10-1)	M21/5m1 4 (() +- (1)	> — 5 (1)	Disconnect connector (1) at front passenger outside rearview mirror (M21/5). Ignition: ON Set outside rearview mirror-left/right (S21s8): To right mirror S21s7: Press left S21s7: Press right	11 – 14 V – 11 to – 14 V	Wiring, S21, N10-1
6.0	81408	Activation of horizontal adjustment motor (M21/5m2) (front passenger mirror) by combination control module (N10-1)	$\begin{array}{c} M21/5m2 \\ 4 - $)—3 (1)	Disconnect connector (1) at front passenger rearview mirror (M21/5). Ignition: ON Set outside rearview mirror-left/right (S21s8): To right mirror S21s6: Press forward S21s6: Press backward	– 11 to – 14 V 11 – 14 V	Wiring, S21, N10-1

\Rightarrow		Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
7.0	81408	Vertical adjustment motor (M21/5m1) (front passenger mirror) vertical adjustment	M21/5m1 3 (1) 2() (1)) —1 (1) — 4 (1)	▲ CAUTION! Disconnect connector (1) at front passenger outside rearview mirror (M21/5). Bridge sockets 5 and 1 with fused jumper wire 124 589 37 63 00 Ignition: ON	Motor runs.	M21/5m1
8.0	81409	Horizontal adjustment motor (M21/5m2) (front passenger mirror) horizontal adjustment	M21/5m2 5 (1) 2() (1)) 1 (1) 4 (1)	▲ CAUTION! Disconnect connector (1) at front passenger rearview mirror (M21/5). Bridge sockets 3 and 1 with fused jumper wire 124 589 37 63 00 Ignition: ON	Motor runs.	M21/5m2
9.0	81513	Electrically adjustable and heated front passenger outside rearview mirror (M21/5) (Memory) Potentiometer voltage supply	N10-1 ∭∭ ⊥(- ⁻ () ⁺ →) — 53	Ignition: ON	4 – 5 V	Wiring, \Rightarrow 9.1, Combination control module (N10-1).

\Rightarrow		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
9.1		Electrically adjustable and heated front passenger outside rearview mirror (M21/5) potentiometer	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ignition: ON Adjust mirror in various directions using vertical/horizontal adjustment (S21s7, or S21/s8).	Values change within the range of 0 – 5 V	Wiring, M21/5m1, M21/5m2
10.0	81409	Horizontal adjustment motor (M21/5m2) (Driver- side mirror) horizontal adjustment by combination control module (N10-1)	M21/4m2 4 (() ⁺ -) (1)	Disconnect connector (1) at driver-side rearview mirror (M21/4). Ignition: ON Set outside rearview mirror-left/right (S21s8): To left mirror S21s7: Press forward S21s7: Press backward	– 11 to – 14 V 11 – 14 V	Wiring, Center consle switch group (M21), N10-1

\Rightarrow		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
11.0	81409	Vertical adjustment motor (M21/4m1) (Driver-side mirror) vertical adjustment by combination control module (N10-1)	M21/4m1 4 (-= () ⁺ →)- (1) (1)	Disconnect connector (1) at passenger-side mirror (M21/4). Ignition: ON Set outside rearview mirror-left/right (S21s8): To left mirror. S21s6: Press forward S21s6: Press backward	– 11 to – 14 V 11 – 14 V	Wiring, Center console switch group (M21), N10-1
12.0	81214 81409	Vertical adjustment motor (M21/4m1) (Driver-side mirror)	M21/4m1 = 5	▲ CAUTION! Disconnect connector (1) at driver-side rearview mirror (M21/4). Bridge sockets 5 and 1 with fused jumper wire 124 589 37 63 00 Ignition:	Motor runs.	M21/4m1

\Rightarrow		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
13.0	81214 81409	Vertical adjustment motor (M21/4m2) (Driver-side mirror)	M21/4m1 3 (1) 2() (1) 2() (1)	 A CAUTION! Disconnect connector (1) at driver-side rearview mirror (M21/4). Bridge sockets 3 and 1 with fused jumper wire 124 589 37 63 00 Ignition: ON 	Motor runs.	M21/4m2
14.0	81214	Electrically adjustable and heated driver-side outside rearview mirror (M21/4) Memory Potentiometer voltage supply	N10-1 ∭ ⊥ (- -®+-)	Ignition: ON O A)	4 – 5 V	Actual values reached, \Rightarrow 14.1 Wiring, Combination control module (N10-1).
14.1		Electrically adjustable and heated driver-side outside rearview mirror (M21/4) Memory Potentiometer	$\begin{array}{c} N10-1 \\ \hline \\ \hline \\ 76 - \langle & - \overline{\langle \rangle}^+ \rangle \end{pmatrix} \rightarrow (A) \\ \hline \\ 76 - \langle & - \overline{\langle \rangle}^+ \rangle \end{pmatrix} \rightarrow (A) \\ \hline \\ \hline \\ \hline \\ (A) \end{array}$	Ignition: ON Adjust mirror in various directions using vertical/horizontal adjustment (S21s7, or S21/s8).	Values change within the range of 0 – 5 V	Wiring, M21/4m1, M21/4m2

\Rightarrow		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
15.0		Mirror heating (driver-side outside mirror) Voltage supply	$\begin{array}{c} M21/4 \\ \hline \\ 2 - (& - ()^{+} &) - 1 \\ (1) & (1) \end{array}$	Disconnect connector (1) from driver-side outside rearview mirror (M21/4). Ignition: ON	11 – 14 V	Wiring.
16.0		Mirror heating (front passenger outside mirror) Voltage supply	M21/5 $2 - (-) - 1$ (1) $M21/5$ (1) $- (1)$	Disconnect connector (1) from front passenger rearview outside mirror (M21/5). Ignition: ON	11 – 14 V	Wiring.
17.0	ВШЧ	Steering column in/out switch (S91s12) Resistance	N32/1 12 (⁻ ⁻ ⁻ ⁻ ⁻ ⁻ ⁻ ⁻ 8 (1) (1)	Disconnect connector (1) at left front ESA control module (N32/1). S91s12: Rest position S91s11: Press forward Press backward	approx. 470 Ω approx. 39 Ω approx. 16 Ω	Wiring, \Rightarrow 17.1, D.M., Body and Accessories Volume 4, 15.3, 23 \Rightarrow 2.0, Left front ESA switch group (S91).

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
17.1	Steering column up/down switch (S91s11) Resistance	N32/1 12 - $(-2)^+ > - 8$ (1) (1)	Disconnect connector (1) at left front ESA control module (N32/1). S91s11: Press up Press down	approx. 124 Ω approx. 65 Ω	Wiring, D.M., Body and Accessories Volume 4, 15.3, $23 \Rightarrow 2.0$, $\Rightarrow 18.1$, S91
18.0	Activation of telescopic adjustment motor (M20m1) by combination control module (N10-1)	$ \begin{array}{c} $	Disconnect connector (4) from ESC motor group (M20). Ignition: ON S91s12: Press forward Press backward	For 1– 2 sec.: 11 – 14 V – 11 to – 14 V	Wiring, D.M., Body and Accessories Volume 4, 15.3, $23 \Rightarrow 2.0$, \Rightarrow 18.1, Left front ESA switch group (S91), N10-1
18.1	Voltage supply to M20m1 potentiometer from N10-1		Disconnect connector (3) from ESC motor (M20). Ignition: ON	4 – 5 V	Wiring, \Rightarrow 18.2
18.2	Voltage supply to M20m1 potentiometer from N10-1	$\begin{array}{c c} & M20m1 \\ 1 & \overleftarrow{} & \overleftarrow{} & \overleftarrow{} & 2 \\ (3) & & (3) \end{array}$	Disconnect connector (3) from ESC motor (M20). Ignition: ON	4 – 5 V	Wiring, ⇒ 18.3, N10-1

\Rightarrow	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
18.3	Potentiometer	$\begin{array}{c c} & \text{N10-1} \\ & & \\ & & \\ & 28 - ($	Ignition: ON 4 Press S91s12 forward or A) backward.	While motor is running, values change within range of 0 – 5 V.	Wiring, M20m1
19.0	Activation of tilt adjustment motor (M20m2) by combination control module (N10-1)	M20m2 2 (- - () ⁺ →) -	Disconnect connector (1) from ESC motor group (M20). Ignition: ON S91s11: Press up Press down	For 1– 2 sec.: – 11 to – 14 V 11 – 14 V	Wiring, D.M., Body and Accessories Volume 4, 15.3, $23 \Rightarrow 2.0$, \Rightarrow 19.1, Left front ESA switch group (S91), N10-1
19.1	Voltage supply to M20m2 potentiometer from N10-1	M20m1 ⊥ <¯ (⊻) [±] → →	3 Jisconnect connector (2) 3 from ESC motor (M20). 3) Ignition: ON	4 – 5 V	Wiring, \Rightarrow 19.2
19.2	Voltage supply to M20m1 potentiometer from N10-1	$\begin{array}{c} & M20m2 \\ 4 - \mathbf{c} & \mathbf{c} \\ (2) \end{array} \qquad \mathbf{b} \\ \mathbf{b} \\ \mathbf{b} \\ \mathbf{c} \\ \mathbf$	Disconnect connector (3) from ESC motor (M20). Ignition: ON	4 – 5 V	Wiring, ⇒ 19.3, N10-1

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
19.3	Potentiometer	$\begin{array}{c} N10-1 \\ \hline \\ 29 - 4 \\ (A) \end{array} \xrightarrow{- 1} \underbrace{)^{+}} \\ \xrightarrow{- 1} 54 \\ (A) \end{array}$	Ignition: ON Press S91s12 up or down.	While motor is running, values change within range of 0 – 5 V.	Wiring, M20m2
20.0	RCL receiver (interior rearview mirror) (A26/7) Voltage supply Electronic dimming	A26/6 2((⑨) → 5	Disconnect connector on A26/7. Ignition: ON	11 – 14 V	Wiring.