

Diagnosis – Function Test (Windshield Wiper System)

Preparation for Test:

1. Battery voltage 11 to 14 V
2. Fuses ok.
3. Voltage supply to AAM is OK.
4. Ignition: **ON** (Circuit 15)

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 1.0 Single wipe function	Pull combination switch (S4) stalk for single wipe function.	Wiper operates at slow speed as long as S4 is activated (pulled).	Wiring, 23a ⇒ 1.0 23a ⇒ 5.0
⇒ 2.0 Windshield wiper stage 1	Combination switch (S4) stalk in stage 1 position.	Wiper operates at slow speed.	Wiring, 23a ⇒ 1.0 23a ⇒ 5.0
⇒ 3.0 Windshield wiper stage 2	Combination switch (S4) stalk in stage 2 position.	Wiper operates at a higher speed.	Wiring, 23a ⇒ 1.0 23a ⇒ 5.0
⇒ 4.0 Windshield wiper interval wipe	Combination switch (S4) stalk in interval wipe position.	Wiper operates, after each wipe cycle a 5 second pause follows before the next wipe cycle begins.	Wiring, Interval switching, 23a ⇒ 3.0

1) Observe Preparation for Test, see 22.

Diagnosis – Function Test (Windshield Wiper System)

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒5.0 Wash front windshield	Combination switch (S4) stalk in wash position.	As long as S4 is activated, the windshield washer pump (M5/1) operates and the wiper continues to wipe 5x after release of the S4 stalk.	Wiring, 23a ⇒ 2.0, 23a ⇒ 6.0, 23a ⇒ 5.0
⇒6.0 Rear windshield interval wipe	Rear window wiper/washer switch (S78) is pressed to interval wipe.	Rear window wiper operates and after each wipe cycle a 5 second pause follows before the next wipe cycle begins.	Wiring, 23a ⇒ 9.0, 23a ⇒ 10.0
⇒7.0 Wash rear windshield	Rear window wiper/washer switch (S78) is pressed to interval wipe.	As long as S78 is pressed, the rear window washer pump operates and the wiper continues to wipe for 5 seconds before stopping in the park position.	Wiring, 23a ⇒ 9.0, 23a ⇒ 10.0, 23a ⇒ 7.0

1) Observe Preparation for Test, see 22.

Diagnosis – Function Test (Interior Lighting System)

Preparation for Test:

1. Battery voltage 11 to 14 V
2. Fuses ok.
3. Voltage supply to AAM is OK.
4. Interior lamps functional.

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 1.0 Manually switch on front dome lamp (with shut-off delay and front reading lamp (E15/2).	All doors closed, Press switch on front dome lamp (with shut-off delay and front reading lamp (E15/2).	Front dome lamp (with shut-off delay and front reading lamp (E15/2) illuminates.	Wiring, E15/2
⇒ 2.0 Manually switch on right rear dome lamp (E15/9).	All doors closed, Press switch on right rear dome lamp (E15/9).	Right rear dome lamp (E15/9) illuminates.	Wiring, E15/9
⇒ 3.0 Manually switch on left rear dome lamp (E15/8).	All doors closed, Press switch on left rear dome lamp (E15/8).	Left rear dome lamp (E15/8) illuminates.	Wiring, E15/8
⇒ 4.0 Switch on interior lighting by opening a front door.	All doors are closed, all interior lamps are OFF, open left or right front door.	Front dome lamp (with shut-off delay and front reading lamp (E15/2), left rear dome lamp (E15/8), right rear dome lamp (E15/9) illuminate dimly.	Rotary tumbler switch, 23b ⇒ 5.0, Interior lamps, 14b, Wiring, All Activity Module (N10).

¹⁾ Observe Preparation for Test, see 22.

Diagnosis – Function Test (Interior Lighting System)

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 5.0 Switch on interior lighting by opening a rear door.	All doors are closed, all interior lamps are OFF, open left or right rear door.	Left rear dome lamp (E15/8), right rear dome lamp (E15/9) illuminate dimmly.	Rotary tumbler switch, 23b ⇒ 5.0, Interior lamps, 14b, Wiring, All Activity Module (N10).
⇒ 6.0 Switch on interior lamps by unlocking the vehicle.	Central locking system is OK. All doors are closed and locked, all interior lamps are OFF, unlock vehicle using the transmitter key.	Front dome lamp (with shut-off delay and front reading lamp (E15/2), left rear dome lamp (E15/8), right rear dome lamp (E15/9) illuminate dimmly.	N10
⇒ 7.0 Switch ON interior lamps by turning the ignition OFF	All doors are closed and locked, all interior lamps are OFF, ignition is then turned OFF.	Front dome lamp (with shut-off delay and front reading lamp (E15/2), left rear dome lamp (E15/8), right rear dome lamp (E15/9) illuminate dimly.	N10
⇒ 8.0 Switch OFF interior lamps by turning the ignition ON	All doors closed, Interior lamps turned on by opening one of the front doors, ignition is ON.	Front dome lamp (with shut-off delay and front reading lamp (E15/2), left rear dome lamp (E15/8), right rear dome lamp (E15/9) go out.	N10

¹⁾ Observe Preparation for Test, see 22.

Diagnosis – Function Test (Interior Lighting System)

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 9.0 Manually switch on rear interior lighting.	Switch set "CONTINUOUSLY ON" in rear dome lamp (E15/3).	Rear dome lamp (E15/3) illuminates.	23b ⇒ 3.0, E15/3
⇒ 10.0 Automatically switch on rear interior lamps	Switch set on "AUTOMATIC" in rear dome lamp (E15/3), open rear tail gate door.	Rear dome lamp (E15/3) illuminates.	23b ⇒ 5.0, 23b ⇒ 3.0, E15/3

1) Observe Preparation for Test, see 22.

Diagnosis – Function Test (Heated Rear Window)

Preparation for Test:

1. Battery voltage 11 to 14 V
2. Fuses ok.
3. Voltage supply to AAM is OK.
4. Engine running (Circuit 61 ON).

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 1.0 Function of heated rear window	Press heated rear window switch (S21s9).	Heated rear window indicator lamp illuminates. Heating up of rear window can only be checked if frosted over or covered with light moisture.	13c/1
⇒ 2.0 Automatic switching OFF of heated rear window.	Heated rear window is turned ON.	The heated rear window is switched OFF after 12 minutes (Indicator lamp goes out).	N10

¹⁾ Observe Preparation for Test, see 22.