

### Diagnosis – Complaint Related Diagnostic Chart (Windshield Wiper System)

**Preparation for Test:**

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

Complaint/Problem	Possible cause	Test step/Remedy
Front windshield wiper system does not function.	Combination switch (S4) Wiper motor (M6/1)	23a ⇒ 1.0, 23a ⇒ 5.0, Wiring.
Front windshield wiper system does not function in wash mode.	Wiper motor (M6/1)	23a ⇒ 5.0
Washer pump does not function during wash function.	Windshield washer pump (M5/1)	23a ⇒ 6.0
Front windshield wiper system does not function in wipe stage 1 or stage 2	Combination switch (S4) Wiper motor (M6/1)	23a ⇒ 1.0, 23a ⇒ 5.0
Front windshield wiper system does not function in interval wipe mode.	Combination switch (S4) All Activity Module (N10)	23a ⇒ 3.0
Front windshield wiper does not stop in park position when turned OFF	Cam switch in wiper motor (M6/1)	23a ⇒ 4.0
Rear window wiper <b>system</b> does not function	Rear window wiper/washer switch (S78) All Activity Module (N10)	23a ⇒ 9.0

Diagnosis – Complaint Related Diagnostic Chart (Windshield Wiper System)

Complaint/Problem	Possible cause	Test step/Remedy
Rear window wiper does not function	Rear window wiper/washer switch (S78) Tailgate window wiper motor (M6/4)	23a ⇒ 9.0, 23a ⇒ 10.0
Rear window wiper does not function when in wash mode	Rear window wiper/washer switch (S78)	23a ⇒ 9.0
Rear window wiper does not turn OFF	Relay on tailgate window wiper motor (M6/4) Cam switch	23a ⇒ 8.0, Wiring.
Rear window wiper does not complete one wipe cycle	Cam switch on tailgate window wiper motor (M6/4)	23a ⇒ 8.0
Rear window washer pump (M5/3) does not function during the wash rear window mode	Rear window wiper/washer switch (S78) Rear window washer pump (M5/3)	23a ⇒ 9.0, 23a ⇒ 7.0

### Diagnosis – Complaint Related Diagnostic Chart (Interior Lighting System)

#### Preparation for Test:

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

Complaint/Problem	Possible cause	Test step/Remedy
Interior Lighting does not function.	Wiring.	Circuit 30, voltage supply
Interior lighting does not turn OFF when ignition is turned ON, <b>or</b> does not turn ON when ignition is turned OFF.	All Activity Module (N10).	N10
<b>Functional problems when in "Automatic ON" mode, i.e. when opening doors:</b>		
When opening one of the front doors, the <b>entire</b> interior lighting system does not come ON.	Left front door rotary tumbler microswitch (S87/7), Right door rotary tumbler microswitch (S87/6), All Activity Module (N10).	23b ⇒ 4.0, Wiring, N10
When opening one of the rear doors, the rear interior lighting does not come ON.	Left rear door rotary tumbler microswitch (S87/2), Right rear door rotary tumbler microswitch (S87/3), All Activity Module (N10).	23b ⇒ 5.0, Wiring, N10
When opening the front doors, the front dome lamp (with shut-off delay and front reading lamp) (E15/2) does not come ON.	Front dome lamp (with shut-off delay and front reading lamp) (E15/2).	23b ⇒ 1.0, E15/2
Left rear dome lamp (E15/8) does not come ON when opening the doors.	Left rear dome lamp (E15/8), All Activity Module (N10).	If E15/9 ok, then check: 23b ⇒ 2.0
Right rear dome lamp (E15/9) does not come ON when opening the doors.	Right rear dome lamp (E15/9), All Activity Module (N10).	If E15/8 ok, then check: 23b ⇒ 2.0

## Diagnosis – Complaint Related Diagnostic Chart (Interior Lighting System)

Complaint/Problem	Possible cause	Test step/Remedy
<b>Functional problems of individual interior lamps when in "Automatic ON" mode or with manual ON mode:</b>		
Front dome lamp (with shut-off delay and front reading lamp) (E15/2) does not function.	Front dome lamp (with shut-off delay and front reading lamp) (E15/2).	Wiring, E15/2
Left rear dome lamp (E15/8) does not function.	Left rear dome lamp (E15/8).	Wiring, E15/8
Right rear dome lamp (E15/9) does not function.	Right rear dome lamp (E15/9).	Wiring, E15/9
Interior lamps do not illuminate when unlocking vehicle via central locking mode.		If central locking functions ok: Wiring, N10
<b>Functional problem with rear dome lamp (E15/3):</b>		
Rear dome lamp (E15/3) does not function	Rotary tumbler/trunk lid microswitch (S88/1), Rear dome lamp (E15/3)	23b ⇒ 3.0, 23b ⇒ 6.0

### Diagnosis – Complaint Related Diagnostic Chart (Heated Rear Window)

#### Preparation for Test:

1. Battery voltage 11 to 14 V
2. Fuses ok.
3. Voltage supply to AAM is OK.
4. Convenience Feature (CF) is functional.

Complaint/Problem	Possible cause	Test step/Remedy
Heated rear window does not function.	Heated rear window switch (S21s9), All Activity Module (N10).	23c ⇒ 2.0, Wiring, N10
Heated rear window does not function, however the indicator lamp is illuminated.	Rear window defroster element (R1), Rear window defroster relay (F1k1), Antenna splitter (A2/5).	23c ⇒ 1.0
Heated rear window functions, however the indicator lamp is <b>not</b> illuminated.	Convenience Feature (CF), Heated rear window indicator lamp (S21e2)	23c ⇒ 3.0, Wiring.
Automatic shut-off of heated rear window does not function.	All Activity Module (N10)	Heated rear window shuts OFF <b>after 12 minutes</b> , if OK: N10