

## Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
No. 1 Indicator lamp in the retractable hardtop switch (S84) does not illuminate when ignition switch is switched "ON"	Voltage supply, circuit 15 Retractable hardtop switch (S84) Combination control module (N10-3)	23 ⇒ 4.0 23 ⇒ 16.0 N10-3
No. 2 Indicator lamp in switch S84 flashes at 6-times frequency (impulse signal) when switch is actuated	Retractable luggage cover engaged limit switch (S69/10) Trunk lock/trunk illumination rotary latch selector switch (S69/12)	23 ⇒ 14.0  23 ⇒ 15.0
No. 3 Indicator lamp in S84 switch comes on with the hardtop open (no impulse signal) Gong sounds when driving	Trunk lid closed/locked left limit switch (S69/7) not actuated Trunk lid closed/locked right limit switch (S69/8) not actuated Retractable hardtop locked limit switch (left rotary latch) (S69/3) not actuated Retractable hardtop locked limit switch (right rotary latch) (S69/2) not actuated  After 6.5 minutes in rest mode, the gong in the instrument cluster will be activated for 30 seconds	23 ⇒ 13.0  23 ⇒ 13.0  23 ⇒ 9.0  23 ⇒ 9.0
No. 4 Indicator lamp in switch S84 flashes (impulse signal) without switch actuation	Trunk lid closed/locked left limit switch (S69/7) not actuated Trunk lid closed/locked right limit switch (S69/8) not actuated Retractable hardtop locked limit switch (left rotary latch) (S69/3) not actuated Retractable hardtop locked limit switch (right rotary latch) (S69/2) not actuated  After 6.5 minutes in rest mode the gong in the instrument cluster will be activated for 30 seconds	23 ⇒ 13.0  23 ⇒ 13.0  23 ⇒ 9.0  23 ⇒ 9.0

<sup>1)</sup> Observe Preparation for Test, see 22.

Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
No. 5 Indicator lamp in switch S84 flashes (impulse signal) when switch is actuated	DTC recognition (DTC will be stored in combination control module)	Readout DTC with Hand-Held-Tester
No. 6 Indicator lamp in S84 switch comes on with the hardtop closed/locked (no impulse signal) Gong sounds while driving	Trunk lid closed/locked left limit switch (S69/7) not actuated Trunk lid closed/locked right limit switch (S69/8) not actuated Retractable hardtop locked limit switch (left rotary latch) (S69/3) not actuated Retractable hardtop locked limit switch (right rotary latch) (S69/2) not actuated	23 ⇒ 13.0  23 ⇒ 13.0  23 ⇒ 9.0  23 ⇒ 9.0

<sup>1)</sup> Observe Preparation for Test, see 22.

## Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
No. 7 <b>During retractable hardtop opening sequence:</b> Side windows front and rear do not open	Hydraulic unit does not function	23 ⇒ 6.0, 7.0
	Retractable luggage cover engaged limit switch (S69/10)	23 ⇒ 14.0
	Trunk lock/trunk illumination rotary latch selector switch (S69/12)	23 ⇒ 15.0
	Trunk lid closed/locked left limit switch (S69/7) or right (S69/8) and Trunk lid open limit switch (S69/9) actuated simultaneously	23 ⇒ 12.0, 13.0
	Retractable hardtop open/stored limit switch (S69/11) and retractable hardtop closed limit switch (S69/1) actuated simultaneously	23 ⇒ 10.0, 11.0
	Retractable hardtop locked limit switch (left rotary latch (S69/3) or right (S69/2) are actuated while retractable hardtop open/stored limit switch (S69/11) and retractable hardtop closed limit switch (S69/1) are not actuated	23 ⇒ 9.0, 10.0, 11.0
	Trunk lid closed/locked left limit switch (S69/7) or right (S69/8) actuated while retractable hardtop open/stored limit switch (S69/11) and retractable hardtop closed limit switch (S69/1) are not actuated	23 ⇒ 10.0, 11.0, 13.0
	No limit switches signal	24
	Supply voltage power windows	23 ⇒ 19.0 – 30.0
	Vehicle speed signal (VSS)	23 ⇒ 34.0, 35.0
Pump temperature signal	23 ⇒ 8.0	
Retractable hardtop switch (S84)	23 ⇒ 17.0	
Combination control module (N10-3)	23 ⇒ 2.0, 5.0	
Retractable hardtop solenoid valve (A7/5y1)	23 ⇒ 31.0	
Trunk lid solenoid valve (A7/5y2)	23 ⇒ 32.0	

<sup>1)</sup> Observe Preparation for Test, see 22.

Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
No. 8 Retractable hardtop does not unlock in front	Trunk lock/trunk illumination rotary latch selector switch (S69/12)	23 ⇒ 15.0
	Retractable luggage cover engaged limit switch (S69/10)	23 ⇒ 14.0
	Retractable hardtop locked limit switch (left rotary latch) (S69/3)	23 ⇒ 9.0
	Retractable hardtop locked limit switch (right rotary latch) (S69/2)	23 ⇒ 9.0
	Retractable hardtop open/stored limit switch (S69/11)	23 ⇒ 11.0
	Trunk lid open limit switch (S69/9)	23 ⇒ 12.0
	Trunk lid closed/locked left limit switch (S69/7)	23 ⇒ 13.0
	Trunk lid closed/locked right limit switch (S69/8)	23 ⇒ 13.0
	Retractable hardtop hydraulic unit (A7/5)	23 ⇒ 6.0, 7.0
	Retractable hardtop solenoid valve (A7/5y1)	23 ⇒ 31.0
Trunk lid solenoid valve (A7/5y2)	23 ⇒ 32.0	
Check retractable hardtop actuation hydraulic cylinder	33 ⇒ 4.0	

1) Observe Preparation for Test, see 22.

## Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
No. 9 Trunk lid does not unlock or open	Trunk lock/trunk illumination rotary latch selector switch (S69/12)	23 ⇒ 15.0
	Retractable luggage cover engaged limit switch (S69/10)	23 ⇒ 14.0
	Retractable hardtop locked limit switch (left rotary latch) (S69/3)	23 ⇒ 9.0
	Retractable hardtop locked limit switch (right rotary latch) (S69/2)	23 ⇒ 9.0
	Retractable hardtop open/stored limit switch (S69/11)	23 ⇒ 11.0
	Trunk lid open limit switch (S69/9)	23 ⇒ 12.0
	Trunk lid closed/locked left limit switch (S69/7)	23 ⇒ 13.0
	Trunk lid closed/locked right limit switch (S69/8)	23 ⇒ 13.0
	Retractable hardtop hydraulic unit (A7/5)	23 ⇒ 6.0, 7.0
	Retractable hardtop solenoid valve (A7/5y1)	23 ⇒ 31.0
Trunk lid solenoid valve (A7/5y2)	23 ⇒ 32.0	
Check retractable hardtop actuation hydraulic cylinder	33 ⇒ 4.0	
No. 10 Retractable hardtop does not open	Trunk lock/trunk illumination rotary latch selector switch (S69/12)	23 ⇒ 15.0
	Retractable luggage cover engaged limit switch (S69/10)	23 ⇒ 14.0
	Trunk lid closed/locked left limit switch (S69/7)	23 ⇒ 13.0
	Trunk lid closed/locked right limit switch (S69/8)	23 ⇒ 13.0
	Retractable hardtop open/stored limit switch (S69/11)	23 ⇒ 11.0
	Retractable hardtop hydraulic unit (A7/5)	23 ⇒ 6.0, 7.0
	Trunk lid solenoid valve (A7/5y2)	23 ⇒ 32.0
	Check retractable hardtop actuation hydraulic cylinder	33 ⇒ 4.0

<sup>1)</sup> Observe Preparation for Test, see 22.

## Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
No. 11 Trunk lid does not close or lock	Trunk lock/trunk illumination rotary latch selector switch (S69/12)	23 ⇒ 15.0
	Retractable luggage cover engaged limit switch (S69/10)	23 ⇒ 14.0
	Trunk lid closed/locked left limit switch (S69/7)	23 ⇒ 13.0
	Trunk lid closed/locked right limit switch (S69/8)	23 ⇒ 13.0
	Retractable hardtop locked limit switch (left rotary latch) (S69/3)	23 ⇒ 9.0
	Retractable hardtop locked limit switch (right rotary latch) (S69/2)	23 ⇒ 9.0
	Trunk lid open limit switch (S69/9)	23 ⇒ 12.0
	Retractable hardtop hydraulic unit (A7/5)	23 ⇒ 6.0, 7.0
	Check trunk lid actuation hydraulic cylinder	33 ⇒ 5.0
No. 12 After retractable hardtop opening sequence, the side windows do not close	Voltage supply power windows	23 ⇒ 19.0 – 30.0
	Trunk lock/trunk illumination rotary latch selector switch (S69/12)	23 ⇒ 15.0
	Retractable luggage cover engaged limit switch (S69/10)	23 ⇒ 14.0
	Trunk lid closed/locked left limit switch (S69/7)	23 ⇒ 13.0
	Trunk lid closed/locked right limit switch (S69/8)	23 ⇒ 13.0
	Retractable hardtop locked limit switch (left rotary latch) (S69/3)	23 ⇒ 9.0
	Retractable hardtop locked limit switch (right rotary latch) (S69/2)	23 ⇒ 9.0
	Trunk lid open limit switch (S69/9)	23 ⇒ 12.0
	Combination control module (N10-3)	23 ⇒ 2.0, 5.0

<sup>1)</sup> Observe Preparation for Test, see 22.

Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
<p>No. 13  <b>During retractable hardtop closing sequence:</b>                      Retractable hardtop does not close</p>	<p>Hydraulic unit does not function                      Trunk lock/trunk illumination rotary latch selector switch (S69/12)                      Retractable luggage cover engaged limit switch (S69/10)</p> <p>Trunk lid closed/locked left limit switch (S69/7) or right (S69/8) and trunk lid open limit switch (S69/9) actuated simultaneously                      Retractable hardtop open/stored limit switch (S69/11) and retractable hardtop closed limit switch (S69/1) actuated simultaneously                      Retractable hardtop locked limit switch (left rotary latch (S69/3) or right (S69/2) are actuated while retractable hardtop open/stored limit switch (S69/11) and retractable hardtop closed limit switch (S69/1) are not actuated                      Trunk lid closed/locked left limit switch (S69/7) or right (S69/8) actuated while retractable hardtop open/stored limit switch (S69/11) and retractable hardtop closed limit switch (S69/1) are not actuated</p> <p>No limit switches signal                      Supply voltage power windows                      Vehicle speed signal (VSS)                      Pump temperature signal                      Retractable hardtop switch (S84)                      Combination control module (N10-3)</p> <p>Retractable hardtop solenoid valve (A7/5y1)                      Trunk lid solenoid valve (A7/5y2)</p>	<p>23 ⇒ 6.0, 7.0</p> <p>23 ⇒ 15.0                      23 ⇒ 14.0</p> <p>23 ⇒ 12.0, 13.0</p> <p>23 ⇒ 10.0, 11.0</p> <p>23 ⇒ 9.0, 10.0, 11.0</p> <p>23 ⇒ 10.0, 11.0, 13.0</p> <p>24                      23 ⇒ 19.0 – 30.0                      23 ⇒ 34.0, 35.0                      23 ⇒ 8.0                      23 ⇒ 17.0                      23 ⇒ 1.0, 3.0, 4.0</p> <p>23 ⇒ 31.0                      23 ⇒ 32.0</p>

1) Observe Preparation for Test, see 22.

Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
<p>No. 14 Trunk lid does not unlock or open</p>	<p>Retractable hardtop locked limit switch (left rotary latch) (S69/3) Retractable hardtop locked limit switch (right rotary latch) (S69/2)</p> <p>Trunk lid open limit switch (S69/9) Trunk lid closed/locked left limit switch (S69/7) Trunk lid closed/locked right limit switch (S69/8) Retractable luggage cover engaged limit switch (S69/10) Trunk lock/trunk illumination rotary latch selector switch (S69/12)</p> <p>Retractable hardtop hydraulic unit (A7/5) Trunk lid solenoid valve (A7/5y2) Check retractable hardtop actuation hydraulic cylinder</p>	<p>23 ⇒ 9.0</p> <p>23 ⇒ 9.0</p> <p>23 ⇒ 12.0 23 ⇒ 13.0 23 ⇒ 13.0 23 ⇒ 14.0</p> <p>23 ⇒ 15.0</p> <p>23 ⇒ 6.0, 7.0 23 ⇒ 32.0 33 ⇒ 4.0</p>
<p>No. 15 Retractable hardtop does not unlock</p>	<p>Retractable hardtop locked limit switch (left rotary latch) (S69/3) Retractable hardtop locked limit switch (right rotary latch) (S69/2)</p> <p>Trunk lid open limit switch (S69/9) Trunk lid closed/locked left limit switch (S69/7) Trunk lid closed/locked right limit switch (S69/8) Retractable luggage cover engaged limit switch (S69/10) Trunk lock/trunk illumination rotary latch selector switch (S69/12)</p> <p>Retractable hardtop hydraulic unit (A7/5) Trunk lid solenoid valve (A7/5y2)</p>	<p>23 ⇒ 9.0</p> <p>23 ⇒ 9.0</p> <p>23 ⇒ 12.0 23 ⇒ 13.0 23 ⇒ 13.0 23 ⇒ 14.0</p> <p>23 ⇒ 15.0</p> <p>23 ⇒ 6.0, 7.0 23 ⇒ 32.0</p>

1) Observe Preparation for Test, see 22.



## Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
No. 16 Retractable hardtop does not close	Retractable hardtop closed limit switch (right pin) (S69/1)	23 ⇒ 10.0
	Retractable hardtop open/stored limit switch (S69/11)	23 ⇒ 11.0
	Retractable hardtop hydraulic unit (A7/5)	23 ⇒ 6.0, 7.0
	Retractable hardtop solenoid valve (A7/5y1)	23 ⇒ 31.0
	Trunk lid solenoid valve (A7/5y2)	23 ⇒ 32.0
No. 17 Trunk lid does not close or lock	Retractable hardtop hydraulic unit (A7/5)	33 ⇒ 1.0
	Retractable hardtop locked limit switch (left rotary latch) (S69/3)	23 ⇒ 9.0
	Retractable hardtop locked limit switch (right rotary latch) (S69/2)	23 ⇒ 9.0
	Trunk lid open limit switch (S69/9)	23 ⇒ 12.0
	Trunk lid closed/locked left limit switch (S69/7)	23 ⇒ 13.0
	Trunk lid closed/locked right limit switch (S69/8)	23 ⇒ 13.0
	Retractable hardtop hydraulic unit (A7/5)	23 ⇒ 6.0, 7.0
Retractable hardtop solenoid valve (A7/5y1)	23 ⇒ 31.0	
Check retractable hardtop actuation hydraulic cylinder	33 ⇒ 7.0	
No. 18 Retractable hardtop does not lock	Retractable hardtop locked limit switch (left rotary latch) (S69/3)	23 ⇒ 9.0
	Retractable hardtop locked limit switch (right rotary latch) (S69/2)	23 ⇒ 9.0
	Trunk lid open limit switch (S69/9)	23 ⇒ 12.0
	Trunk lid closed/locked left limit switch (S69/7)	23 ⇒ 13.0
	Trunk lid closed/locked right limit switch (S69/8)	23 ⇒ 13.0
	Retractable hardtop hydraulic unit (A7/5)	23 ⇒ 6.0, 7.0
	Retractable hardtop solenoid valve (A7/5y1)	23 ⇒ 31.0
Check trunk lid actuation hydraulic cylinder	33 ⇒ 5.0	

<sup>1)</sup> Observe Preparation for Test, see 22.

Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
No. 19 Side windows do not close	Retractable hardtop locked limit switch (left rotary latch) (S69/3) Retractable hardtop locked limit switch (right rotary latch) (S69/2)  Trunk lid open limit switch (S69/9) Trunk lid closed/locked left limit switch (S69/7) Trunk lid closed/locked right limit switch (S69/8) Voltage supply power windows Combination control module (N10-3)  Retractable hardtop hydraulic unit (A7/5) Retractable hardtop solenoid valve (A7/5y1)	23 ⇒ 9.0  23 ⇒ 9.0  23 ⇒ 12.0 23 ⇒ 13.0 23 ⇒ 13.0 23 ⇒ 19.0 – 30.0 23 ⇒ 27.0, 29.0  23 ⇒ 6.0, 7.0 23 ⇒ 31.0
No. 20 Front power windows do not close	Retractable hardtop locked limit switch (left rotary latch) (S69/3) Retractable hardtop locked limit switch (right rotary latch) (S69/2)  Trunk lid open limit switch (S69/9) Trunk lid closed/locked left limit switch (S69/7) Trunk lid closed/locked right limit switch (S69/8) Voltage supply power windows Combination control module (N10-3)  Retractable hardtop hydraulic unit (A7/5) Retractable hardtop solenoid valve (A7/5y1)	23 ⇒ 9.0  23 ⇒ 9.0  23 ⇒ 12.0 23 ⇒ 13.0 23 ⇒ 13.0 23 ⇒ 19.0 – 30.0 23 ⇒ 21.0, 25.0  23 ⇒ 6.0, 7.0 23 ⇒ 31.0

1) Observe Preparation for Test, see 22.

## Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
No. 21 Side windows do not open or close with retractable hardtop switch (S84) but function properly with power window switch	Retractable hardtop not locked Retractable hardtop switch (S84) Combination control module (N10-3)	23 ⇒ 9.0, 13.0 23 ⇒ 17.0 23 ⇒ 21.0, 25.0
No. 22 Side windows do not open or close with power windows switch (first detent)	Left front power window switch (S21/1) Right front power window switch (S21/2) Left front power window motor (M10/3) Right front power window motor (M10/4) Combination control module (N10-3)	23 ⇒ 20.0 23 ⇒ 24.0 23 ⇒ 22.0 23 ⇒ 26.0 23 ⇒ 19.0, 23.0
No. 23 Side windows do not open with one touch function	Left front power window switch (S21/1) Right front power window switch (S21/2) Combination control module (N10-3)	23 ⇒ 20.0 23 ⇒ 24.0 23 ⇒ 19.0, 23.0
No. 24 Retractable hardtop opening or closing sequence too slow	Check hydraulic unit	33 ⇒ 1.0

<sup>1)</sup> Observe Preparation for Test, see 22.