



Cabriolet-specific issues

Cabriolet-specific issues

No.	Event	Topic	Type/model
1.		Rear lid does not open => convertible roof not in end position	A5 Cabriolet 8F
2.		Overview of switch positions => diagnostic aid	A5 Cabriolet 8F
3.		Influence of the convertible roof compartment lid position	A5 Cabriolet 8F
4.		Environmental data for controlling the convertible roof	A5 Cabriolet 8F

Cabriolet-specific issues — A5 Cabriolet

1.) Luggage compartment lid does not open — convertible roof not in end position



Complaint:

The luggage compartment lid cannot be opened using the grip (soft touch function).

Additional customer comment:

After briefly actuating the convertible roof switch, the luggage compartment lid can now be opened using the grip.

Cabriolet-specific issues — A5 Cabriolet

1.) Luggage compartment lid does not open — convertible roof not in end position

General note on how the luggage compartment lid influences control of the convertible roof:

The convertible roof can only be moved if the luggage compartment lid is closed.

=> Prevents the convertible roof compartment lid from colliding with the luggage compartment lid.

While the convertible roof is in motion, a CAN bus signal from convenience system central control unit J393 prevents the luggage compartment lid from being opened using the grip (soft touch function).

=> Convenience CAN bus (communication with convertible roof control unit J285)

The luggage compartment lid can only be opened using the grip (soft touch function) again once the convertible roof has moved to the end position.

=> Prerequisites: No malfunction of the grip and/or locking mechanism for the luggage compartment lid occurs.

This data can be retrieved using Guided Fault Finding (GFF) via the following address word

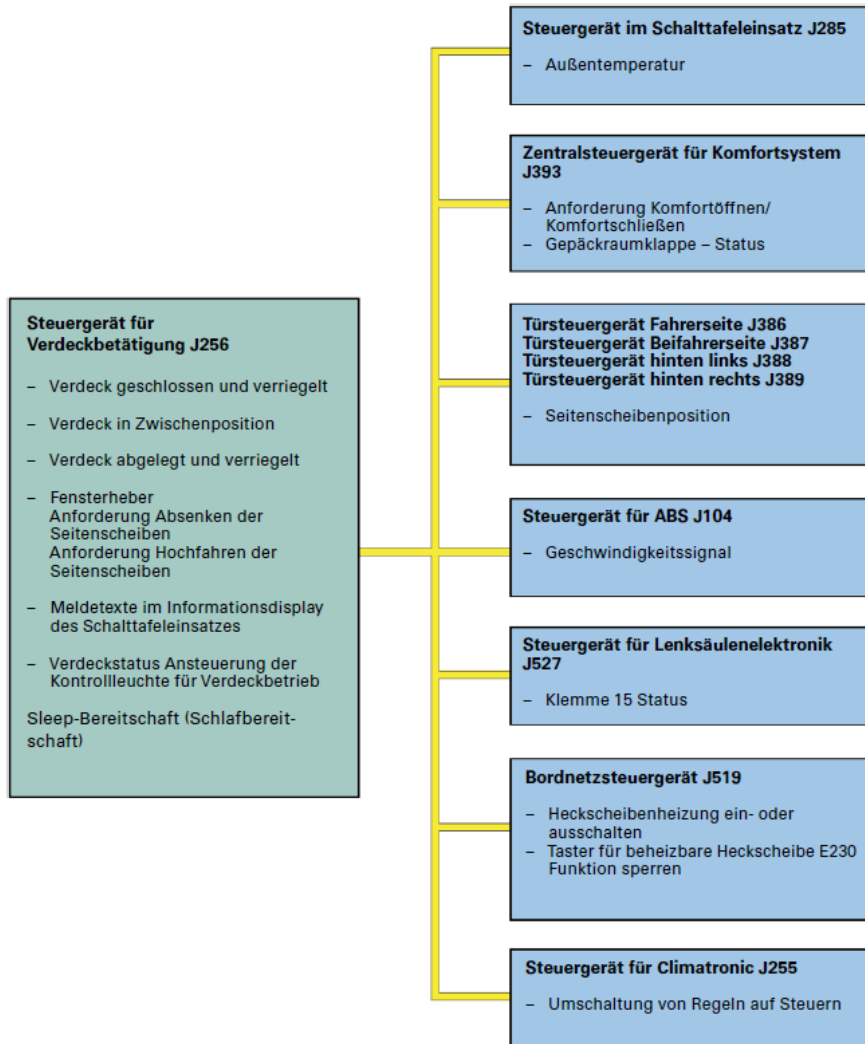
=> 26 — electronic roof actuation J 256/MVB.

Important note:

Check whether or not the valet parking function is activated!!! (Luggage compartment lid can be locked separately)

Cabriolet-specific issues — A5 Cabriolet

1.) Luggage compartment lid does not open — convertible roof not in end position



Factor influencing the luggage compartment lid:

In the event of a mechanical and/or electrical fault => it is not possible to move the convertible roof!

In the event that switch E 137 is actuated:

Display in the dash panel insert:

=> Convertible roof — actuation not possible

Warning lamp for convertible roof operation K215:
=> flashes *)



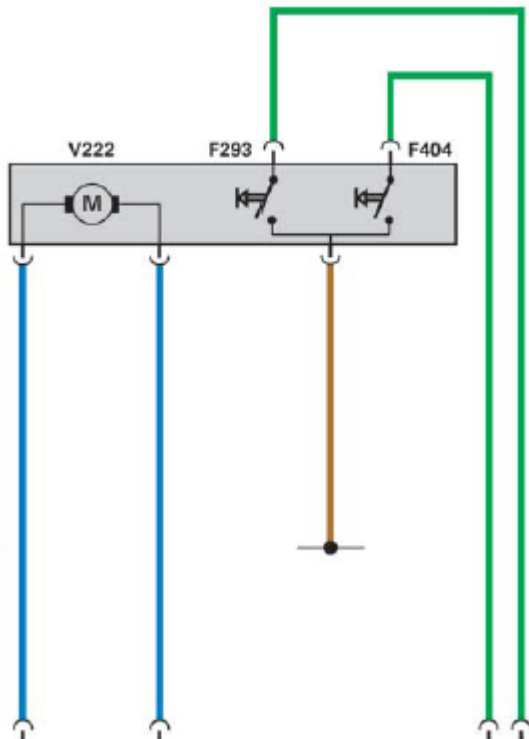
*) Note:

=> Lights up in the event that switch E 137 is actuated:

- While convertible roof is moving
- Convertible roof not in end position (...terminal 15 on with ...)

Cabriolet-specific issues — A5 Cabriolet

1.) Luggage compartment lid does not open — convertible roof not in end position



Workshop findings:

If the problem persists, the following entries are/may be stored in the data memory for 26 — electronic roof operation:

- F404

B118629_9537065_Switch for convertible roof compartment lid lock, locked

(Switch F 404 for complaint => absolutely critical)

- F293

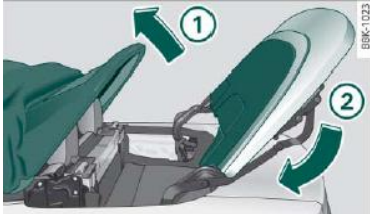
B119629_9541161_Switch for convertible roof compartment lid lock, unlocked

(Switch F 293 for problem => less critical)

Both switches are integrated in motor unit V222 (motor for convertible roof compartment lid).

Cabriolet-specific issues — A5 Cabriolet

1.) Luggage compartment lid does not open — convertible roof not in end position



Cause:

The gear wheel with cams in the motor for the convertible roof compartment lid lock V222 is not positioned centrally.

The cams within the gear wheel actuate microswitches F293 and F404 to varying extents. The tappet of the cam for microswitch F404 (switch for convertible roof compartment lid locking mechanism, locked) is sometimes not actuated far enough to trigger the switch point.

=> The convertible roof compartment lid is not recognized as being locked even though it is physically closed.

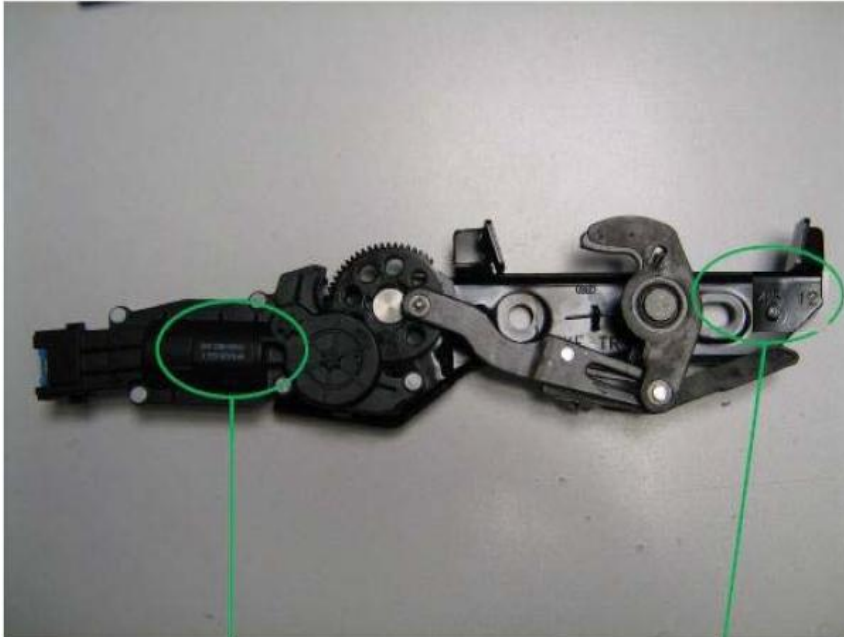
=> e.g. convertible roof not in end position!

=> Convertible top operation is not possible!!!

=> The luggage compartment lid cannot be opened!!!

Cabriolet-specific issues — A5 Cabriolet

1.) Luggage compartment lid does not open — convertible roof not in end position



Action:

Series production:

From VIN number **FH DN007680** an optimized locking mechanism for the convertible roof compartment lid.

Customer service:

In the event of a complaint where the cause has been verified as being the relevant component affected, this component must be replaced. Only optimized components with the following data specifications can be obtained via the genuine parts service:

Part number:

8F0 825 823F

Production date:

January 2013

Baseplate date:

CW 45/2012



Ab Produktionsdatum 12.11.12 sind korrigierte Grundplatten verbaut worden



Prägung des Herstelldatums der Grundplatte -> KW45/ 2012

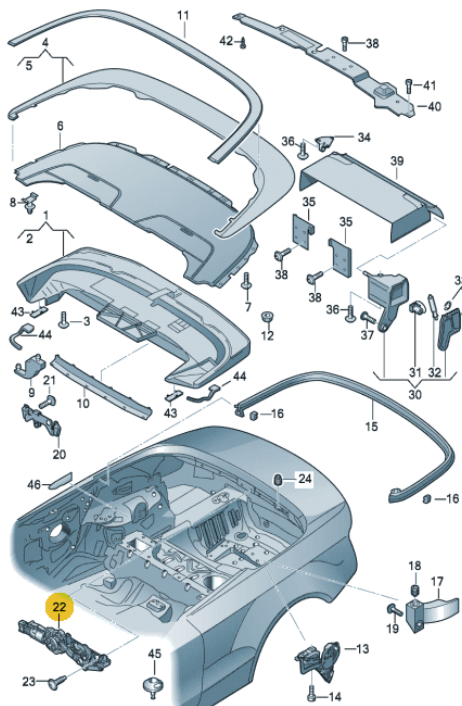
Cabriolet-specific issues — A5 Cabriolet

1.) Luggage compartment lid does not open — convertible roof not in end position

ETKA

MODELL: A5CA | JAHR: 2010 (A) | HG: 8 | UG: 25 | BILDTAFEL: 825-50 | BESTAND: | FI-SUCHE: | VERKAUFSTYP: | MARKE: Audi | KAT: 670

EINSCHRÄNKUNG | MATERIALSCHEIN



POS	TEILNUMMER	BENENNUNG	BEMERKUNG	ST	MODELLANGABE
17	8F0 825 241 B	Haltebock	links	1	
(17)	8F0 825 242 B	Haltebock	rechts	1	
18	8F0 825 377	Anschlagpuffer, einstellbar		2	
19	N 910 423 02	Innensechsrund-Linsenschraube	M6X16	4	
20	8F0 825 839 A	Schliesskeil		1	
21	N 910 145 01	Innensechsrund-Flachkopfschraube D	M6X16 >> - 31.01.2011	2	
(21)	WHT 005 492	Innensechsrund-Flachkopfschraube D	M6X16 >> - 31.01.2011>>	2	
▶ 22	8F0 825 823 F	Verschluss		1	
23	WHT 000 439	Flachrundschrabe	M8X20	2	
24	8D0 823 481	Anschlagpuffer		2	
30	8F0 825 175 B	Lagerbock	links	1	
31	8F0 901 119	Elektromotor	links	1	
32	8F0 825 373	Daempfungselement	links	1	
33	8F0 898 160	Kleinteilesatz		1	
34	8F0 825 176 A	Lagerbock	rechts	1	
35	8F0 825 173 A	Fuehrungsschiene	links	1	
(35)	8F0 825 174 A	Fuehrungsschiene	rechts	1	
36	N 907 371 05	Innensechsrund-Linsenschraube	M6X12	5	
37	N 107 148 01	Zylinderbundschrabe mit	M6X18	1	

Genuine part via ETKA (item 22 as assembly unit, illustration 825-50)

Cabriolet-specific issues — A5 Cabriolet

1.) Luggage compartment lid does not open — convertible roof not in end position



Inspection:

2.) Electrical inspection:

The switch positions of switch F404 and F293 can be checked in the relevant position by connecting the VAS tester to the vehicle.

Checking the switch position helps to ensure that the electrical switch contact is reliable after replacing locking mechanism 8F0 825 823F, and allows the contact to be read in convertible roof control unit J256.

Cabriolet-specific issues — A5 Cabriolet

2.) Overview of switch positions (diagnosis) , 26 — electronic roof operation J256

The overview shows **14 switch positions**.

1	0	0	1	0	0	X	X	X	0	1	1	0	1	Position 190
1	0	0	1	0	0	X	X	X	0	1	1	0	0	Position 180
1	0	0	1	0	0	X	X	X	0	1	1	1	0	Position 170
1	0	0	1	0	0	X	X	X	0	X	X	1	0	Position 160
1	0	X	X	0	0	X	X	X	0	X	X	1	0	Position 150
1	0	X	X	0	0	X	X	X	1	0	0	1	0	Position 130
0	0	X	X	0	0	X	X	X	1	0	0	1	0	Position 120
0	0	1	0	0	0	X	X	X	1	0	0	1	0	Position 110
0	0	1	0	0	0	X	X	X	1	0	0	1	0	Position 100
0	1	0	X	X	X	X	X	X	1	0	0	1	0	Position 90
0	1	0	1	1	1	0	X	X	1	0	0	1	0	Position 80
0	1	0	1	1	1	1	0	0	1	0	0	1	0	Position 70
0	1	0	1	1	1	1	0	0	0	X	X	1	0	Position 60
0	1	0	1	1	1	1	0	0	0	1	1	1	0	Position 50
0	1	0	1	1	1	0	X	X	0	1	1	1	0	Position 40
0	1	0	1	1	1	X	X	X	0	1	1	0	0	Position 30
0	1	0	1	1	1	0	X	X	0	1	1	0	1	Position 20
0	1	0	1	1	1	0	1	1	0	1	1	0	1	Position 10
0	1	0	1	1	1	0	1	1	0	1	1	0	1	Position 0
14.	13.	12.	11.	10.	9.	8.	7.	6.	5.	4.	3.	2.	1.	

1: Switch for convertible roof compartment lid lock, locked — F404!!!!

2: Switch for convertible roof compartment lid lock, unlocked — F293

3: Switch for right side of convertible roof compartment lid — F291

4: Switch for left side of convertible roof compartment lid — F290

5: Switch for convertible roof compartment lid up — F407

6: Switch for rear right-hand section of convertible roof frame — F410

7: Switch for rear left-hand section of convertible roof frame — F409

8: Switch for top rear section of convertible roof frame — F408

9: Switch for convertible roof closed, on right — F412

10: Switch for convertible roof closed, on left — F411

11: Switch for left convertible roof locking mechanism — F169

12: Switch for convertible roof locking mechanism, open — F294

13: Switch for convertible roof, at front — F202 *)

14: Switch for convertible roof, stowed — F171

1 — Switch is actuated

0 — Switch is not actuated

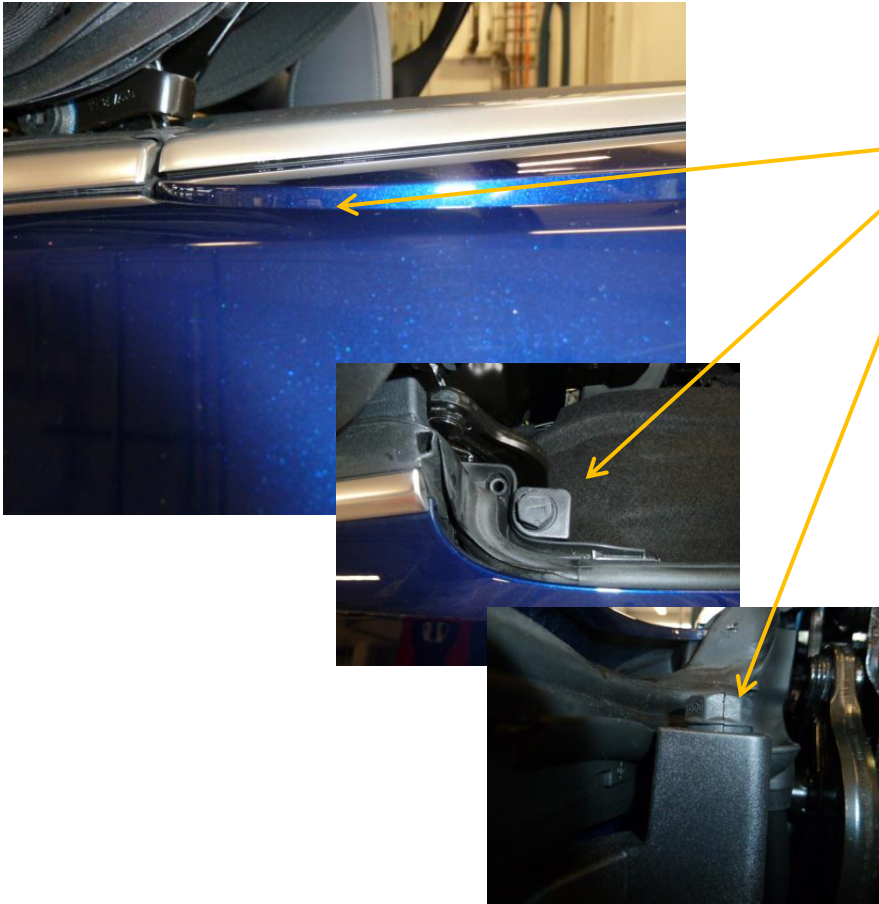
X — Switching state not relevant in this position

Position 0 — Convertible roof is closed all the way and locked

Position 190 — Convertible roof is open all the way and locked

Cabriolet-specific issues — A5 Cabriolet

3.) Ways in which the position of the convertible roof compartment lid has an impact on function and air-tightness



Possible complaints caused by convertible roof compartment lid:

In some circumstances, the position of the support cushions in the convertible roof compartment lid can prevent the convertible roof compartment lid from being physically shut.

Result:

- In terms of function => convertible roof not in end position
- In terms of air-tightness => water will penetrate through the convertible roof compartment lid

Ensure the convertible roof compartment lid is positioned correctly in the closed position.

Cabriolet-specific issues — A5 Cabriolet

3.) Ways in which the position of the convertible roof compartment lid has an impact on function and air-tightness

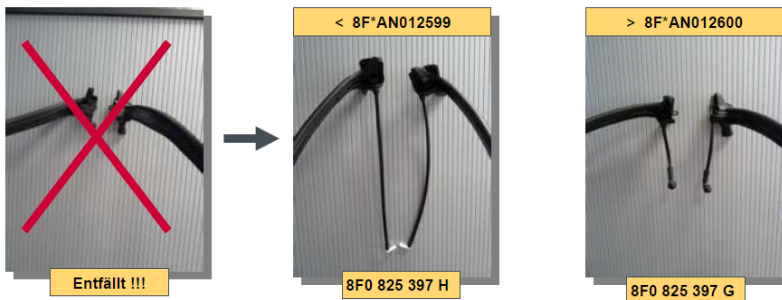
2. Wassereintritt über Verdeckkastendeckel (VDKD)

KD-Maßnahme: Gültig für Fzg. < 8F*AN012599 mit Dichtung 8F0 825 397 H

Serienmaßnahme: Neues Dichtungskonzept > 8F*N012600 mit Dichtung 8F0 825 397 G

Arbeitsschritte:

Alte VDKD-Dichtung entfernen => Neue KD VDKD-Dichtung 8F0 825 397 H verbauen!



Hinweise bzgl. der Arbeitsschritte finden Sie auch im Rep.-leitfaden (61)

12 Koppold, Klaus I/IGS-4 08.04.2011

Vorsprung durch Technik 

Possible complaint caused by the convertible roof compartment lid:

Air-tightness:

- Water will penetrate through the convertible roof compartment lid

Cabriolet-specific issues — A5 Cabriolet

3.) Ways in which the position of the convertible roof compartment lid has an impact on function and air-tightness

1.) Kollision: Verdeck – Verdeckkastendeckel (VDKD) beim Öffnungsvorgang



Beanstandung:

Beim Öffnungsvorgang streift die Verdeckspitze und/oder auch folgende Stofffalten am aufgestellten Verdeckkastendeckel (VDKD).

Dies kann bis zum Abbruch des Verdecklaufes bzw. zu starken Beschädigungen führen.

Beim Schließvorgang kann es ebenso zum Kontakt kommen, ist aber in der aktuellen Situation (Verdeckspitze und/oder folgende Stofffalten gleiten über den geneigten VDKD zurück) zuerst unkritisch bis es erneut zum Schließvorgang kommt.

Hinweis:

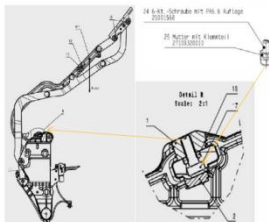
Achten Sie präventiv auf Beschädigungen an der Verdeckspitze sowie am VDKD.

Possible complaints caused by the convertible roof compartment lid:

Function:

- Collision between convertible roof and convertible roof compartment lid (seven-joint hinge)

3 Koppold, Klaus I/IGS-4 02.10.2012



Vorsprung durch Technik 

Cabriolet-specific issues — A5 Cabriolet

4.) Environmental data for controlling the convertible roof

General information to aid analysis in the event of a complaint:

In the event of complaints concerning the convertible roof, remember that various faults in the environmental data can also lead to impairments with the function of the convertible roof (open/close function).

This applies to all Audi Cabriolet models (A4C, A5C, TT Roadster, R8 Spyder)

Check this data using Guided Fault Finding (GFF) via address word
=> 26 — electronic roof operations J256 (MVB)

Experience shows that the following points are often affected:

- Ambient temperature: < -4°C => convertible roof does not operate (convertible roof can be closed once)
- Speed: Up to max. 30/50 km/h (does not include A4 Cabriolet) depending on type (process to move the convertible roof [when closing] is interrupted if this speed is exceeded)
- Overheat protection: Approx. 3 convertible roof cycles (opening/closing) possible, after that convertible top function is deactivated for max. 20-25 min
- Luggage compartment lid: Position (closed)
- Side window: Position (lowered)
- Battery voltage: < 11.4 Volt normal convertible roof operation not possible!

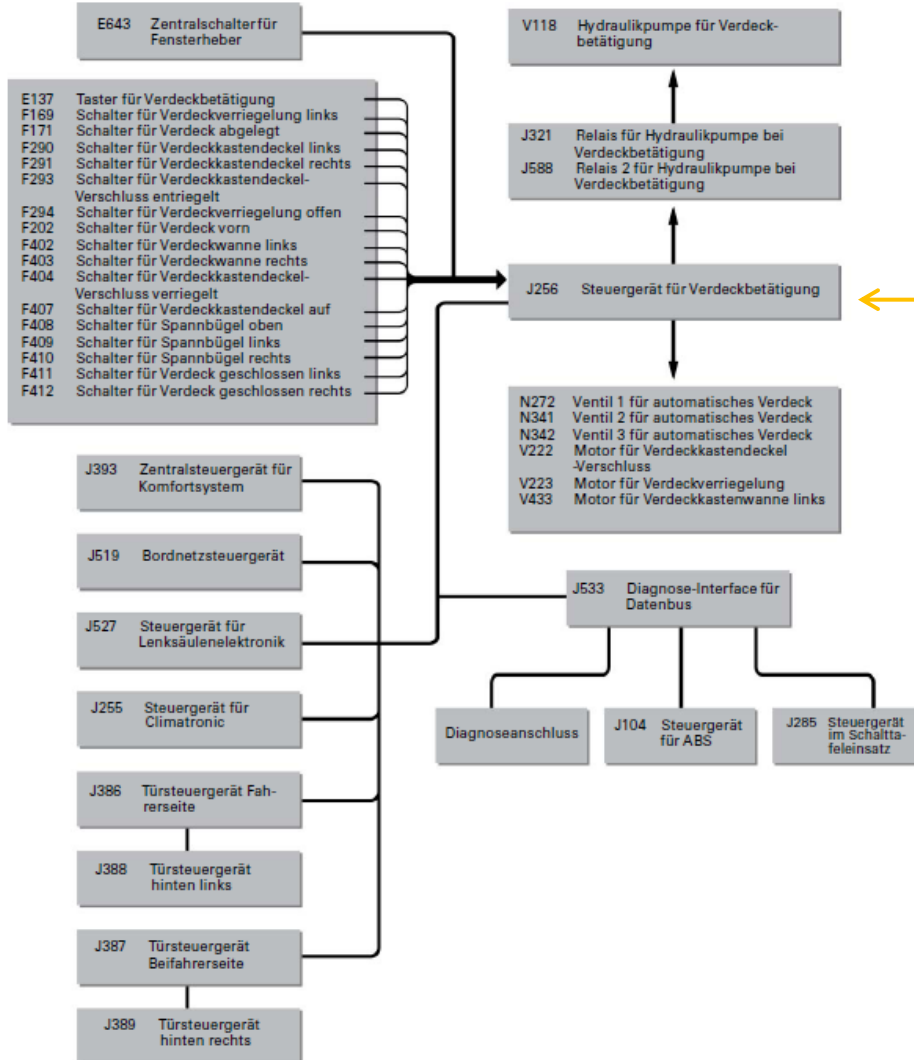
Note:

Automatic closing of the side windows following movement of the convertible roof is no clear indication that the convertible roof has reached its defined end position (closed/open).

The convertible roof has only reached its end position (opened/closed) when warning lamp K215 (illuminated during operation) goes out.

Cabriolet-specific issues — A5 Cabriolet

4.) Environmental data for controlling the convertible roof



System overview: Elements networked with the convertible roof controller.