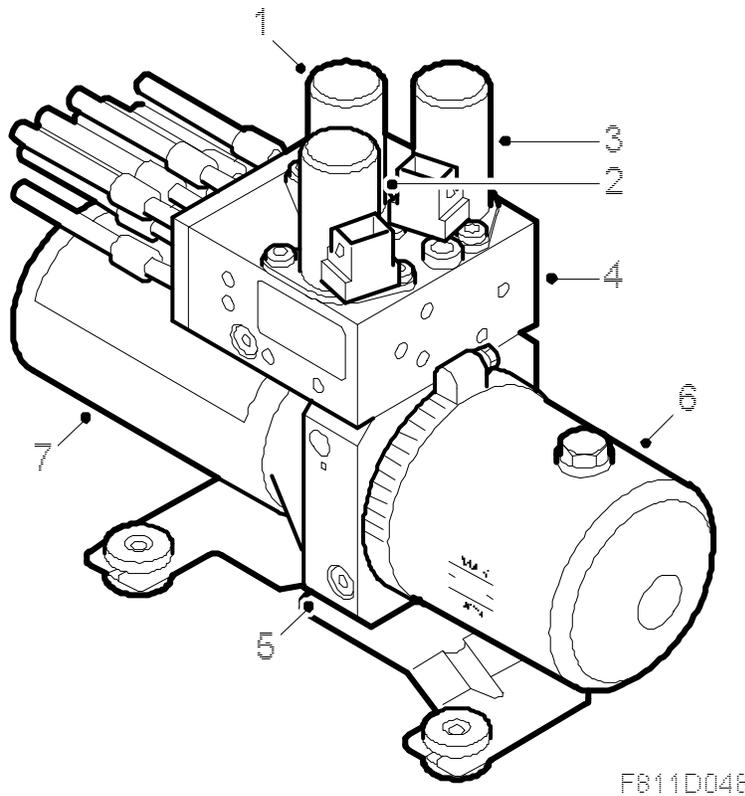
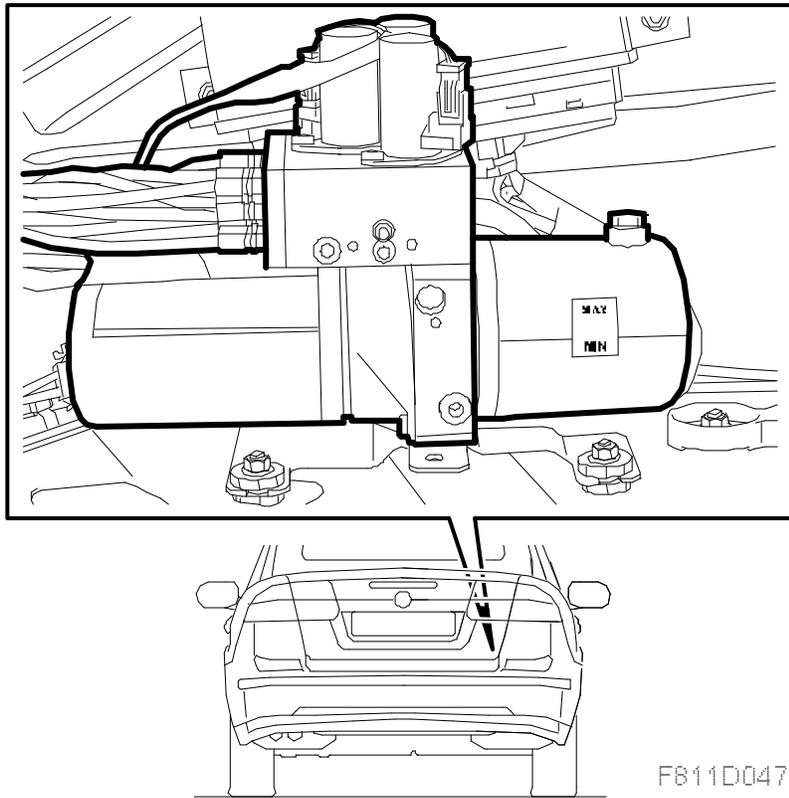


Hydraulic system



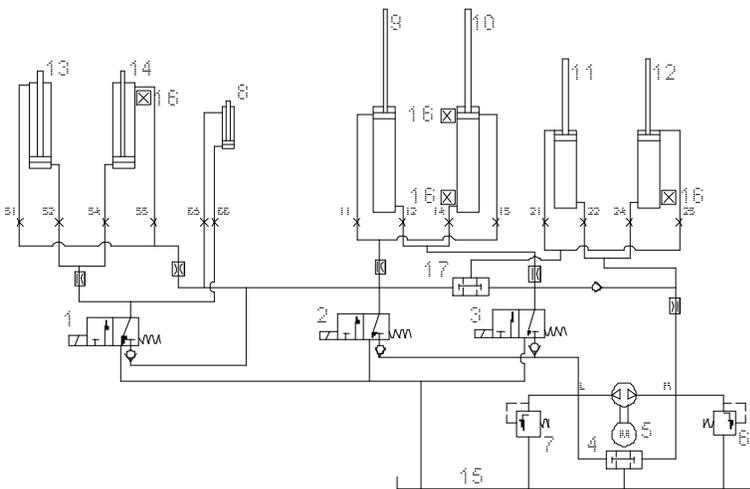
1. Solenoid valve 1 (green)
2. Solenoid valve 2 (blue)
3. Solenoid valve 3 (orange)
4. Valve block with relief valves and shunt valves
5. Hydraulic pump
6. Oil reservoir
7. Electric motor

The hydraulic unit is located in the right-hand side of the luggage compartment. The system comprises also of two main hydraulic cylinders, which operate the soft top, two hydraulic cylinders to operate the sixth bow, two hydraulic cylinders for the soft top cover and one hydraulic cylinder to lock the soft top to the windscreen frame.



F811D047

The hydraulic unit comprises a pump block with two pressure reduction valves (for clockwise or anticlockwise), two logic shunt valves (XOR valves) and three solenoid valves, 1, 2 and 3. [Component locations.](#)



F811D049

The three electro-hydraulic valves are functionally identical and they are used to control the flow of oil to the hydraulic cylinders.

The fluid reservoir with level indications on the side is attached to the pump block with a hose clip. Observe that only fluid with part no. (16) [89 96 860 Power steering fluid](#) Pentosin CHF-11S may be used.

Pump unit

The pump unit comprises a 4-cylinder piston pump which is driven by an electric motor. The motor rotation direction is controlled by STC. The hydraulic cylinders work with differential pressure in certain cases, i.e. the same pressure operates in the system but due to the piston rod taking up part of the area the pressure has a smaller area to operate in at the piston rod side. The result of this is that the piston is pushed out faster but with less force.

The soft top hydraulic cylinders for the sixth bow and soft top cover are operated anticlockwise.

Valves

The pressure is reduced by two pressure reducing valves (for rotation anticlockwise and clockwise) to 140 ± 10 bar. These reducing valves are situated after the respective delivery sides and lead fluid back to the suction side. Meanwhile, the connection between the delivery side and the fluid reservoir is closed.

The valve block, containing three solenoid valves and two shunt valves, is connected to the pump block.

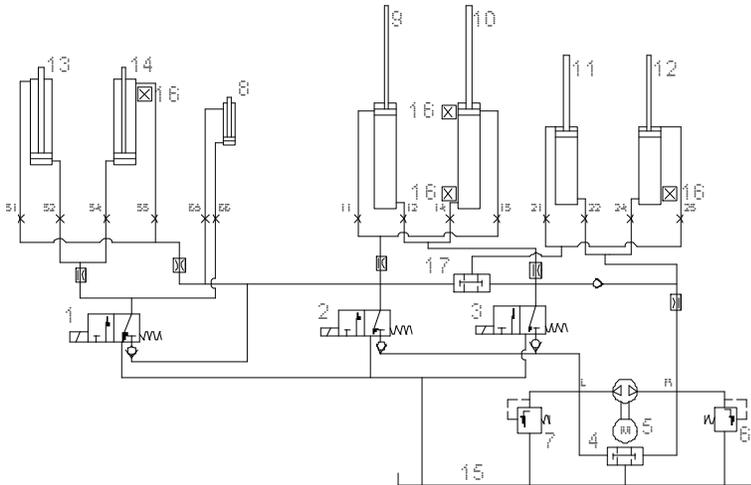
Each of the three solenoid valves has three fluid connections:

- Fluid pressure from pump
- Fluid pressure to main cylinder
- Oil return to reservoir

The valves have two positions: "Active" and "Rest". When a valve is active, the pressure from the pump is connected to the pressure for the cylinder in question. When a valve is at rest, the pressure for the cylinder is connected to the fluid return line to the reservoir. The valves may be activated by STC.

Hydraulic functions for opening soft top

Component locations



F811D049

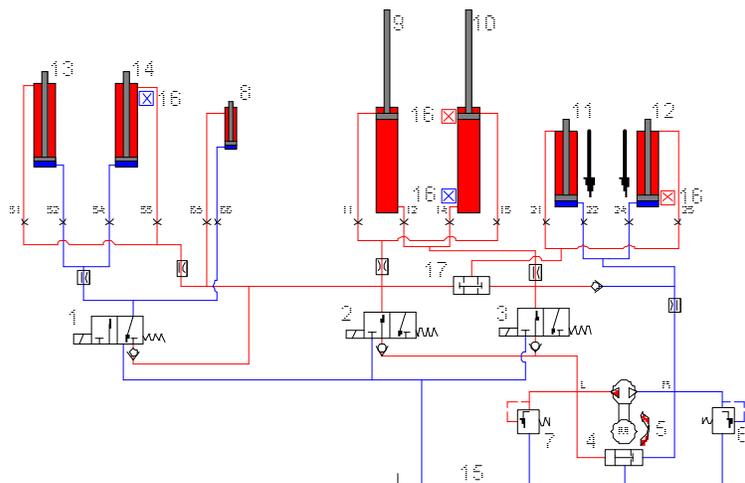
1. Solenoid valve 1 (green)
2. Solenoid valve 2 (blue)
3. Solenoid valve 3 (orange)
4. Shunt valve
5. Hydraulic pump with electric motor
6. Pressure reducing valve (clockwise)
7. Pressure reducing valve (anticlockwise)
8. Hydraulic cylinder, first bow/windscreen frame
9. Main hydraulic cylinder, LH
10. Main hydraulic cylinder, RH
11. Hydraulic cylinder, sixth bow left
12. Hydraulic cylinder, sixth bow right

13. Soft top cover hydraulic cylinder, right
14. Soft top cover hydraulic cylinder, left
15. Oil reservoir
16. Position sensor
17. Shunt valve

Soft top sequences, opening the soft top, hydraulic functions

1. Unlocking and opening the sixth bow

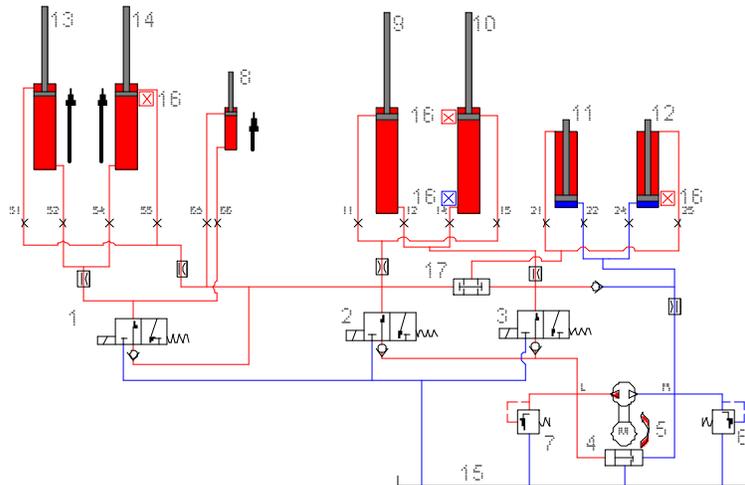
By holding down the soft top button on SIDC (Saab Information Display Control), the STC control module will be given a command to open the soft top. The STC (Soft Top Controller) starts the hydraulic pump (5) anticlockwise. The shunt valve (4) opens and delivers fluid to the right-hand side of the hydraulic pump. Meanwhile, the connection between the left-hand side of the pump and the reservoir is closed. The STC activates the solenoid valves (2) and (3). This establishes a pressure connection between the hydraulic pump (5) and the hydraulic cylinders (11) and (12) for the sixth bow. The sixth bow cylinders (11) and (12) are operated to open position, unlock and open the sixth bow.



FR11D052

2. Unlocking the first bow and opening the soft top cover

The hydraulic pump (5) runs anticlockwise, valves (1), (2) and (3) are activated. This means that hydraulic cylinder (8) used for locking the first bow and the hydraulic cylinders (13) and (14) for the soft top cover are opened. The first bow latch is released and the soft top cover is opened.

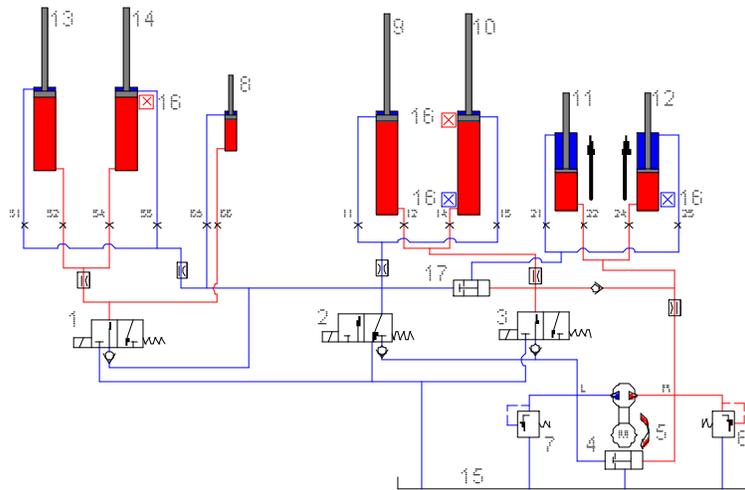


F81 1D054

3.

Sixth bow, intermediate position

STC activates the solenoid valves (1) and (3). The pump runs clockwise and hydraulic cylinders (11) and (12) for the sixth bow are operated to closed position and the sixth bow has assumed an intermediate position.

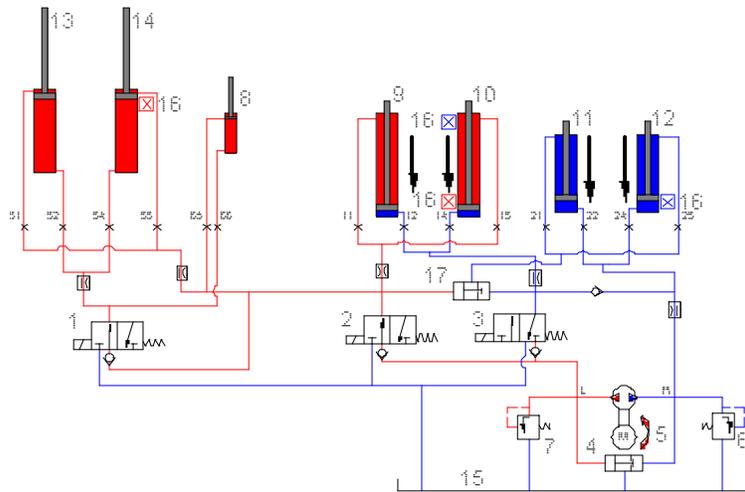


F011D056

4.

Lowering the soft top

Once the sixth bow has reached its intermediate position, the STC will activate the solenoid valves (1) and (2), thereby connecting the pressure from the hydraulic pump (5) to the main hydraulic cylinders (9) and (10). The main hydraulic cylinder pistons are retracted to lower the soft top into the soft top storage.



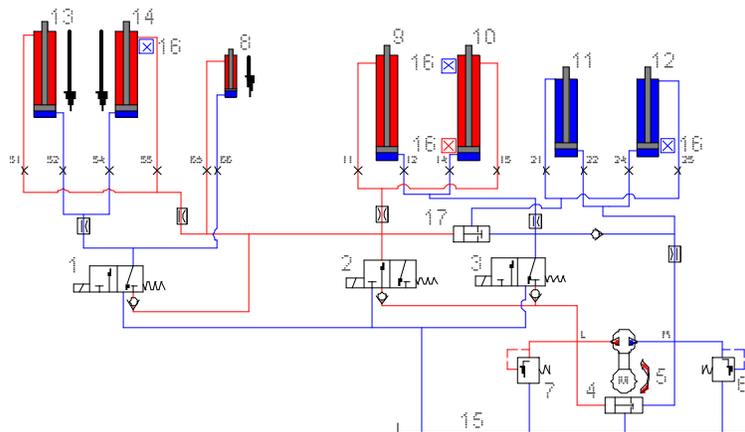
F011D058

5.

Locking the soft top cover

The hydraulic pump (5) runs anticlockwise and solenoid valve (2) is activated. Via the valve, hydraulic cylinder (8) is operated to lock the first bow and the two hydraulic cylinders (13) and (14) for the soft top cover.

All of these cylinders return to closed position. The first bow is secured and the soft top cover closes and is locked.



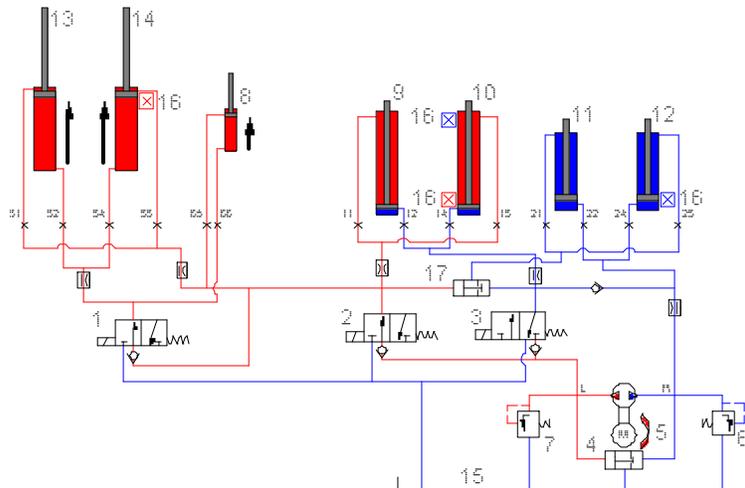
F811D060

Soft top sequences, closing the soft top, hydraulic functions

1.

Opening the soft top cover

STC receives information from the soft top switch to close the soft top. Hydraulic pump (5) runs anticlockwise, solenoid valves (1) and (2) are activated, thereby opening the latch (8) for bow one and the hydraulic cylinders (13) and (14) for the soft top cover. The latch for bow one is released and the soft top cover opens.

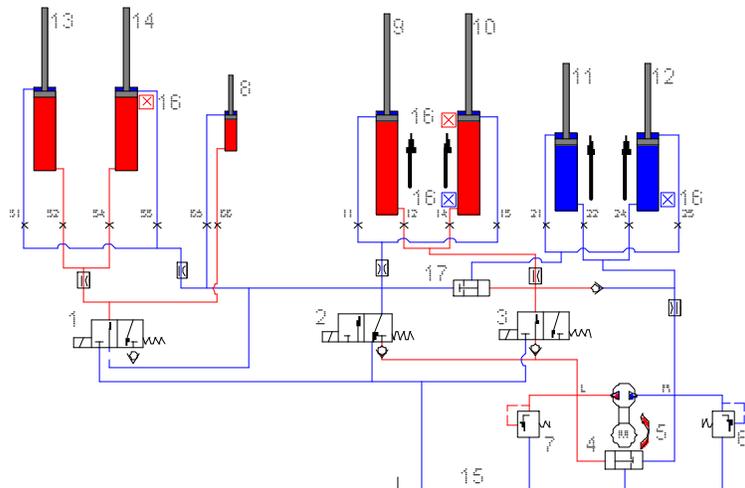


F011D064

2.

Raising the soft top

Hydraulic pump (5) runs anticlockwise, solenoid valves (1) and (3) are activated, thereby connecting the pressure from the hydraulic pump to the main cylinders (9) and (10), which press out the pistons and raise the soft top.

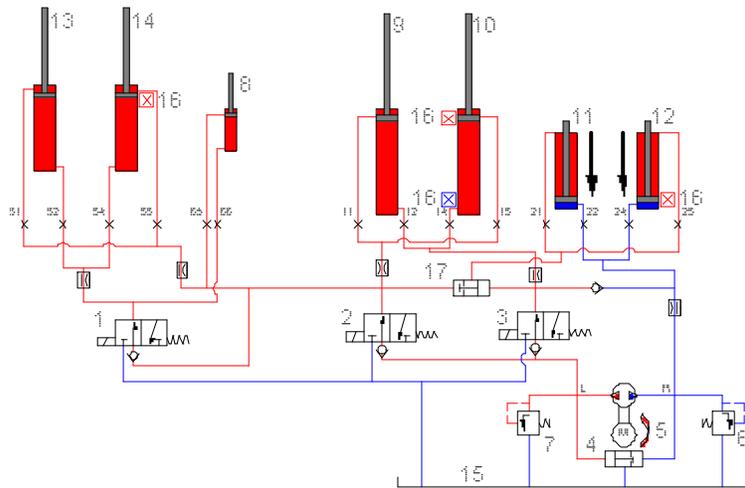


F011D066

3.

Opening the sixth bow

Solenoid valves (1), (2) and (3) are activated by running the hydraulic pump (5) anticlockwise. This gives a pressure connection between the hydraulic pump and the hydraulic cylinders (11) and (12) for the sixth bow. The hydraulic cylinders for bow six are moved to open position, which opens the sixth bow.

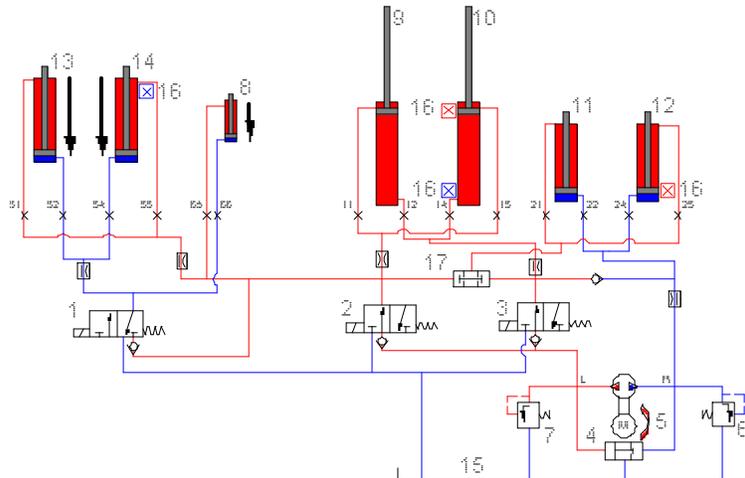


F011D068

4.

Locking bow one and closing the soft top cover

The hydraulic pump (5) runs anticlockwise, solenoid valves (2) and (3) are activated. Via these, hydraulic cylinder (8) is operated for locking the first bow and the two hydraulic cylinders (13) and (14) for the soft top cover. All of these cylinders return to closed position. Bow one locking is secured and the soft top cover closes.

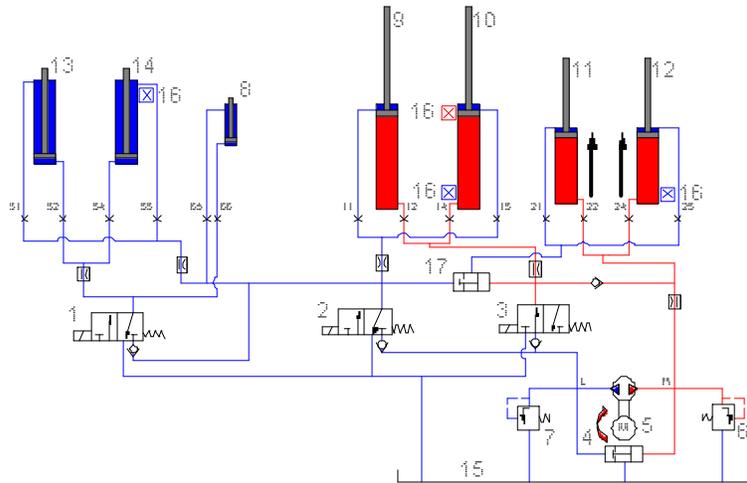


F8110070

5.

Closing the sixth bow

The hydraulic pump (5) in this case is run in the opposite direction, i.e. clockwise, which connects pressure to the main cylinders (11) and (12). Solenoid valve (3) is activated to maintain the pressure in the main hydraulic cylinders (9) and (10). The hydraulic cylinders for the sixth bow return to their original positions and the sixth bow closes.



F811D012

The hydraulic system uses the following valve combinations to perform the soft top sequences:

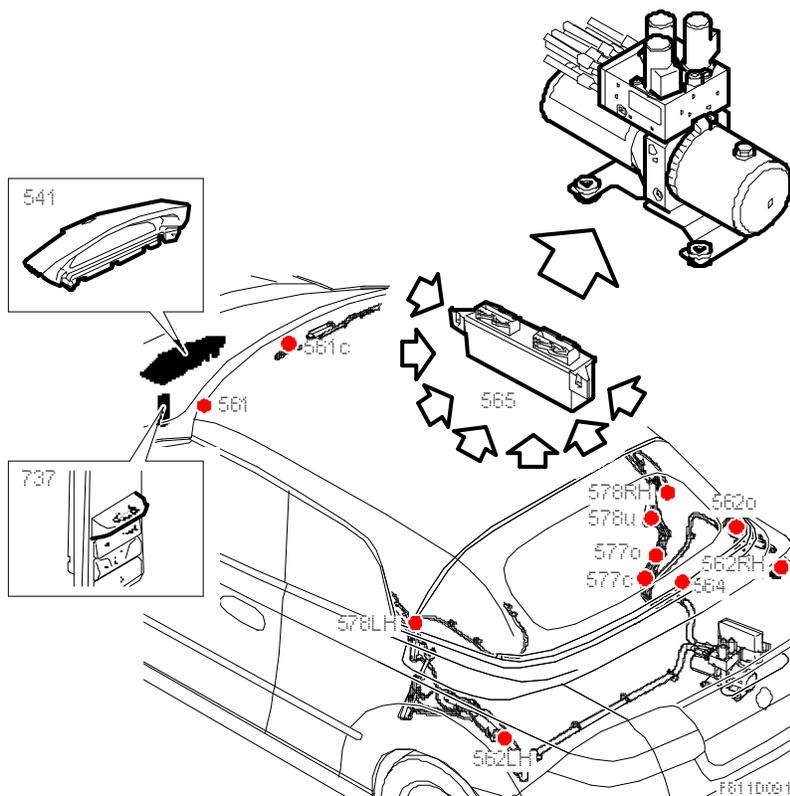
Opening sequence:	Pump rotation direction	solenoid valve 1	solenoid valve 2	solenoid valve 3
Unlocking and opening the sixth bow	Pump left		2	3
Unlocking the first bow and opening the soft top cover	Pump left	1	2	3
Sixth bow, intermediate position	Pump right	1		3
Lowering the soft top	Pump left	1	2	
Locking the soft top cover	Pump left		2	

Closing sequence:	Pump rotation direction	solenoid valve 1	solenoid valve 2	solenoid valve 3

Opening the soft top cover	Pump left	1	2	
Raising the soft top	Pump left	1		3
Opening the sixth bow	Pump left	1	2	3
Locking bow one and closing the soft top cover	Pump left		2	3
Closing the sixth bow	Pump right			3

Electro-hydraulic system

The position the soft top is in is detected by sensors integrated in the hydraulic system, soft top mechanism and windscreen frame. Information from each sensor is received by the STC. The soft top is controlled sequentially, which means that each soft top movement must be completed before the next one can start.



The soft top opens in the following steps:

- Sixth bow opens

- The first bow is unlocked and the soft top cover opens
- Sixth bow lowered
- Soft top lowered
- Soft top cover latches

Soft top closes in reverse order.

STC, which controls the pump and the valves, must receive confirmation of the different movements from sensors and switches within a certain time period. When one such condition is not fulfilled, all movement will cease and STC will generate an error message sent via the bus and shown on SID (Saab Information Display), e.g. "CHECK SOFT TOP".

STC also used bus messages from other control modules. If the information does not correspond to default values, STC will not allow the soft top to be operated. STC then sends an error message on the bus that is shown on SID (Saab Information Display), e.g. "Battery voltage too low".

The automatic soft top operation is carried out sequentially and is described in the following tables. The movements will be carried out after pressing the soft top button. Soft top movement is controlled by the STC control module (Soft Top Controller).

Conditions for soft top operation

- **Ignition key ON**

When the ignition is ON, the soft top can be operated using the switch in SID-C. If the ignition switch is turned to ST while the soft top is being operated, the soft top movement will be stopped and must be reactivated again.

- **Vehicle speed below 30 km/h**

The control module receives messages on the speed of the car via the I-bus. It is only possible to operate the soft top when the speed of the car is lower than 30 km/h. Otherwise the movement is stopped. The speed limiter is programmable with the diagnostic tool between 0 and 30 km/h.

- **Soft top storage lowered (applies only to opening the soft top)**

The control module receives information on the soft top storage position from the position sensor. If the soft top storage is folded when an attempt is made to open the soft top, the soft top operation will be stopped and the message "CHECK SOFT TOP STORAGE" shown on SID.

- **Boot lid closed**

The control module receives information that the boot lid is closed via the I-bus. If the boot lid is open and an attempt is made to operate the soft top, its operation will be stopped and the message "CLOSE TRUNK LID" shown on SID. The boot lid must be closed or it will collide with the soft top cover when it is opened.

- **Power supply to control module between 9-16V**

The power supply to the control module must be between 9-16V for the control module to be able to operate the soft top or the windows.

- **Temperature, pump motor**

The soft top pump motor must not be overheated. The STC system is capable of operating the soft top in 3 minutes which is equivalent to six to seven opening and closing sequences respectively in succession. The cooling off period is twice as long as the total operating time. The soft top can always be closed irrespective of the pump motor temperature.

- **Boot lid carrier rack must not be raised (accessory)**

The carrier rack sensor senses whether it is raised or lowered. Of the carrier rack is raised the soft top cover will hit the carrier rack.

- **Temperature above -5°C**

The soft top can be damaged if it is operated in under -5°C. The soft top is locked with the first press of the button and the following SID message is displayed: "Soft top can be damaged when operated in temperatures below zero". If the button is pressed again within 50 seconds the soft top can be operated. The soft top can always be closed irrespective of the temperature.

- **Roll bars must not be activated.**

Sensors in the mechanism for the roll-over bars detect the position.

- **All the control module inputs/outputs are valid**

The system performs a self-test every time the ignition switch is turned to ON.

Soft top sequences, opening the soft top, sensor inputs

The illustrations and the hydraulic circuit diagram describe the movements of the soft top during raising and retracting. The tables describe the status of the position sensors with respect to each movement sequence. The outputs are marked in *italics* and the inputs are underlined in the table headings. For changes of status, the read values are marked in **bold**.

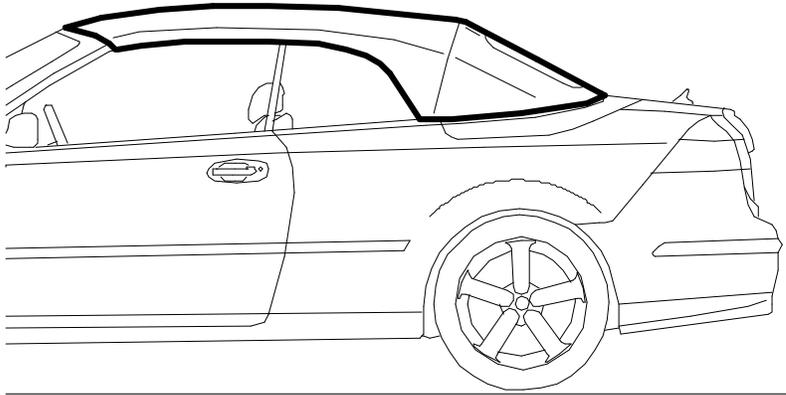
Supervision time. Each of the movements (soft top, bow and cover) has a maximum allowed time (supervision time). STC controls each of the movements so that none of them exceed their respective supervision times. If the time is exceeded, the hydraulic system will immediately switch to stop mode. Automatic operation can be restarted by releasing the button "Close soft top" or "Open soft top" and then pressing the relevant button again.

The diagnostic tool can be used to read the status of each position sensor.

Description of position sensor status:

On	Active input
Off	Input inactive
On/Off	Input in transition mode

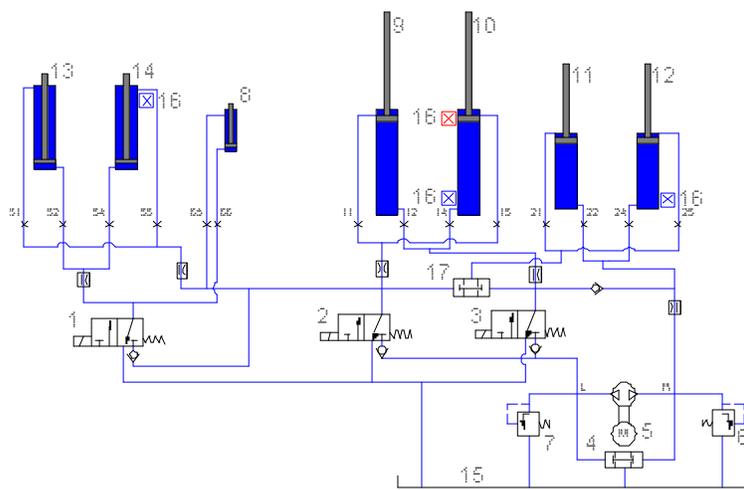
1. Status of position sensors prior to activation when the soft top is closed.



F811D092

Position sensor	Status
First bow ready to be locked	On
First bow locked	On
Soft top cover locked left	On
Soft top cover locked right	On
Soft top cover up	Off
Sixth bow up	Off
Sixth bow locked left	On

Sixth bow locked right	On
Soft top storage down	On
Main cylinder up	On
Main cylinder down	Off

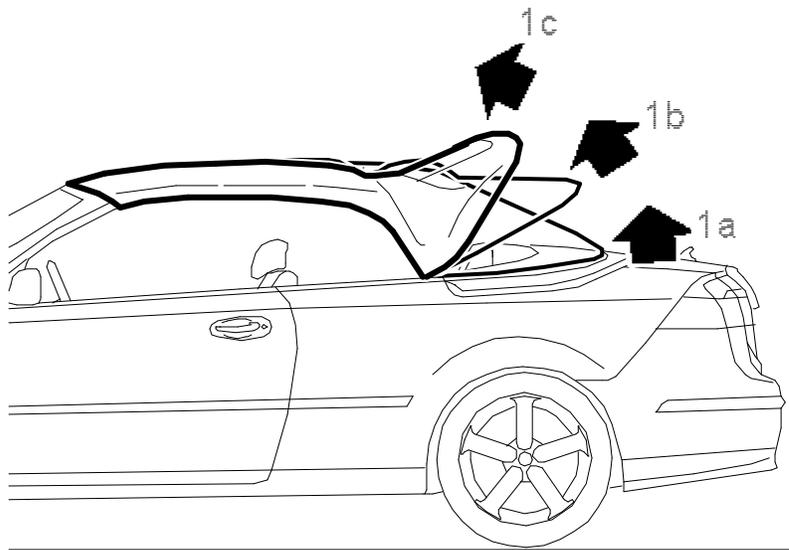


F811D050

2.

Step 1, unlocking and opening of sixth bow.

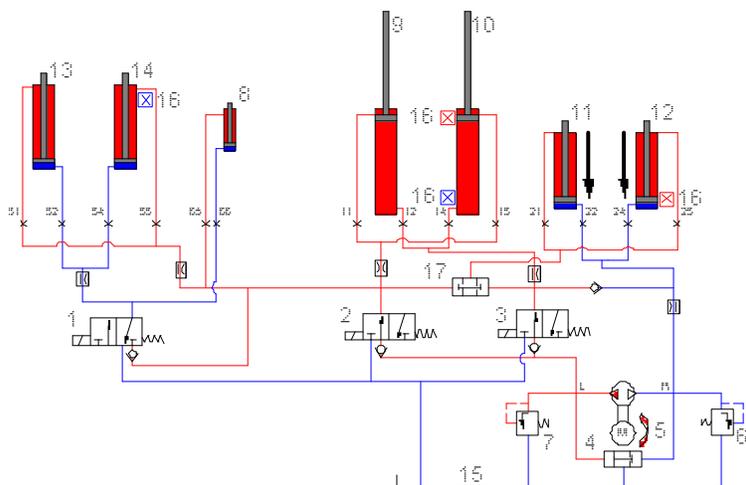
When activating the soft top button, the control module performs the following:



F811D051

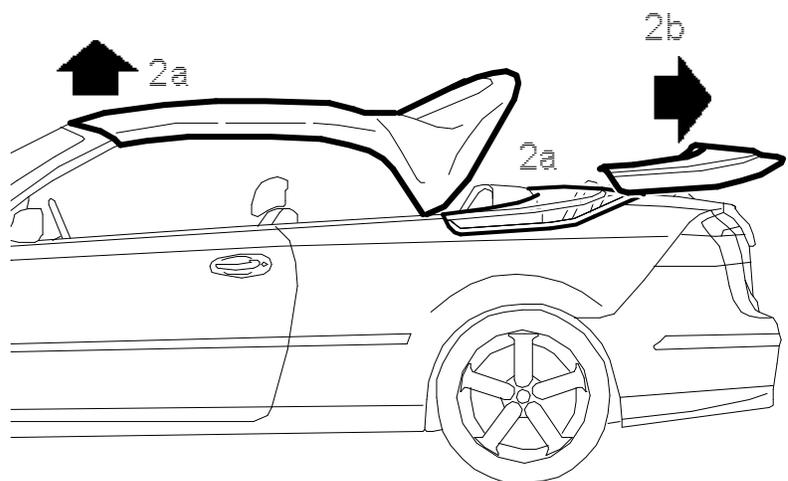
Position sensor	Status 1a	Status 1b	Status 1c
	<p><i>Pump left, solenoid valve 2 and 3 (raise bow) until <u>Sixth bow locked</u>, right/left is "Off".</i></p> <p>Supervision time is 4 sec.</p>	<p><i>Pump left, solenoid valve 2 and 3 (raise bow) until switch <u>Sixth bow up</u> "On".</i></p> <p>Supervision time is 4 sec.</p>	<p><i>Pump left, solenoid valve 2 and 3 (raise bow) until <u>soft top storage down</u>, switch "Off".</i></p> <p>Supervision time is 2 sec.</p>
First bow ready to be locked	On	On	On
First bow locked	On	On	On
Soft top cover locked left	On	On	On
Soft top cover locked	On	On	On

right			
Soft top cover up	Off	Off	Off
Sixth bow up	Off	On	On
Sixth bow locked left	Off	Off	Off
Sixth bow locked right	Off	Off	Off
Soft top storage down	On	On	Off
Main cylinder up	On	On	On
Main cylinder down	Off	Off	Off



F811D052

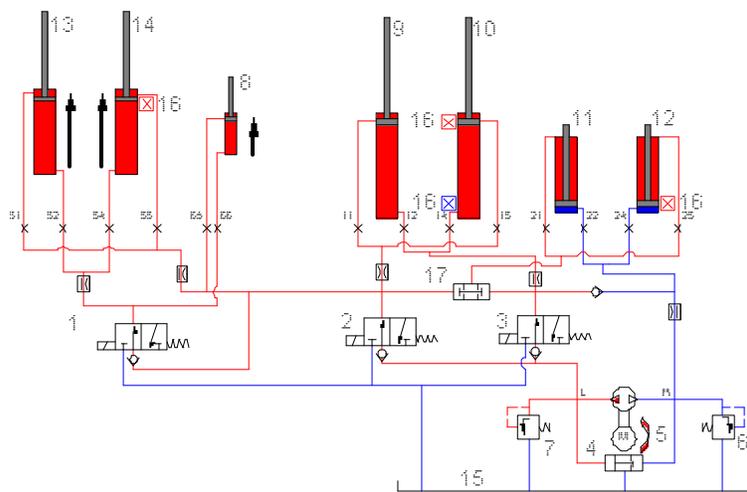
- Step 2, releasing first bow and opening soft top cover.



F811D053

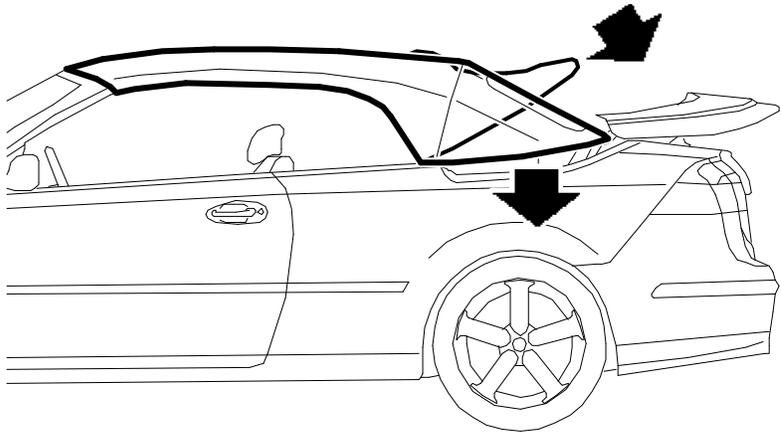
Position sensor	Status 2a	Status 2b
	<p><i>Pump left, solenoid valve 1, 2 and 3 (raise soft top/lock front catch) until <u>First bow ready to be locked and First bow locked</u> is "Off" and <u>Soft top cover locked, left/right</u> is "Off"</i></p> <p>Monitoring time is 10 sec. + 4 sec.</p>	<p><i>Pump left, solenoid valve 1, 2 and 3 (raise soft top/release front catch) until switch <u>Soft top cover raised</u> is "On"</i></p> <p>Supervision time is 10 sec.</p>
First bow ready to be locked	Off	Off
First bow locked	Off	Off
Soft top cover locked left	Off	Off
Soft top cover locked right	Off	Off

Soft top cover up	Off	On
Sixth bow up	On	On
Sixth bow locked left	Off	Off
Sixth bow locked right	Off	Off
Soft top storage down	Off	Off
Main cylinder up	On	On
Main cylinder down	Off	Off



F811D054

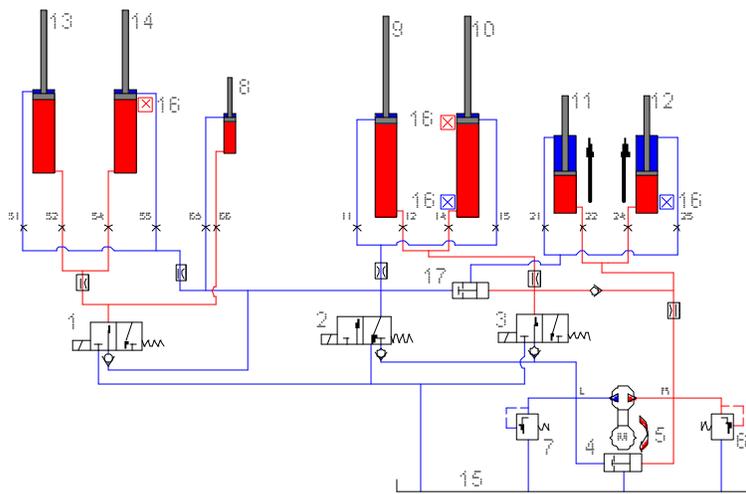
4. **Step 3, sixth bow, intermediate position.**



F811D055

Position sensor	Status
	<p><i>Pump right, solenoid valve 1 and 3 (lower bow) until switch "<u>Sixth bow raised</u>" is "Off"</i></p> <p>Supervision time is 3 sec.</p>
First bow ready to be locked	Off
First bow locked	Off
Soft top cover locked left	Off
Soft top cover locked right	Off
Soft top cover up	On
Sixth bow up	Off
Sixth bow locked left	Off

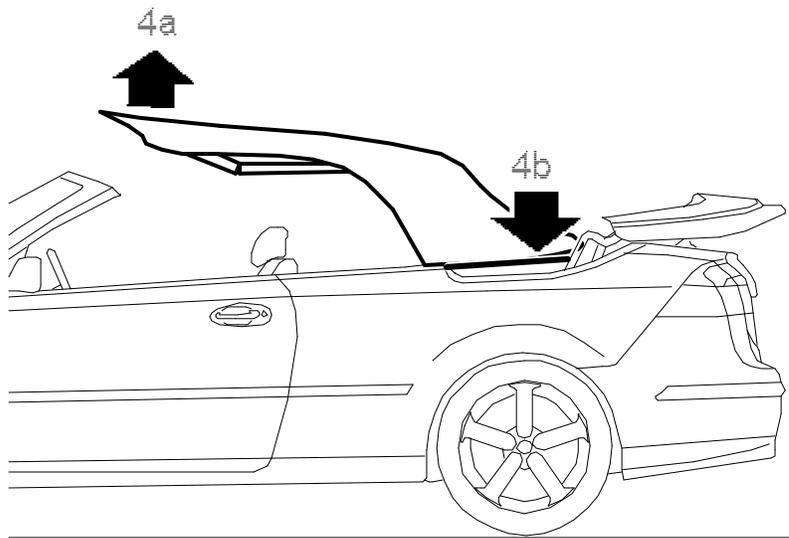
Sixth bow locked right	Off
Soft top storage down	Off
Main cylinder up	On
Main cylinder down	Off



F811D056

5.

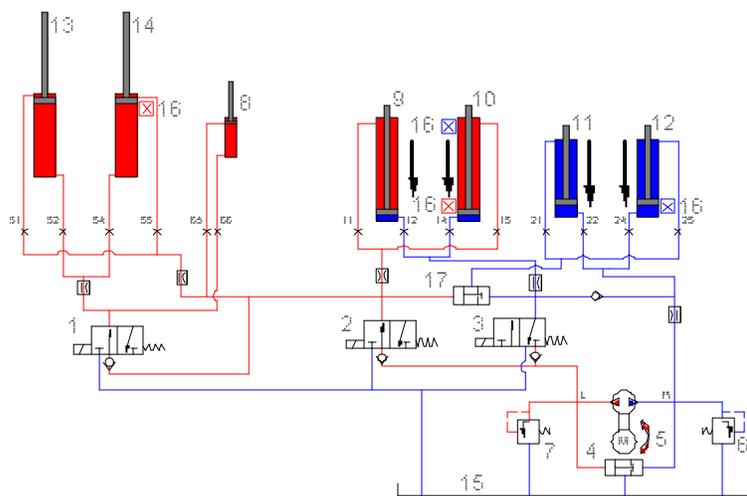
Step 4, lowering the soft top.



F811D057

Position sensor	Status
	<p><i>Pump left, solenoid valve 1 and 2 (lower soft top) until switch <u>Hydraulic cylinder down</u> is "On"</i></p> <p>Supervision time is 10 sec.</p>
First bow ready to be locked	Off
First bow locked	Off
Soft top cover locked left	Off
Soft top cover locked right	Off
Soft top cover up	On
Sixth bow up	On (4b)
Sixth bow locked left	Off/On

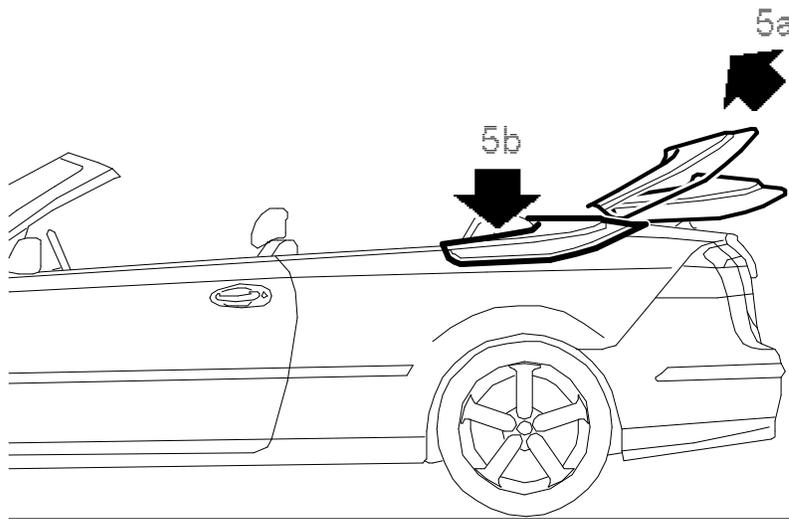
Sixth bow locked right	Off/On
Soft top storage down	Off
Main cylinder up	Off (4a)
Main cylinder down	On (4b)



F811D058

6.

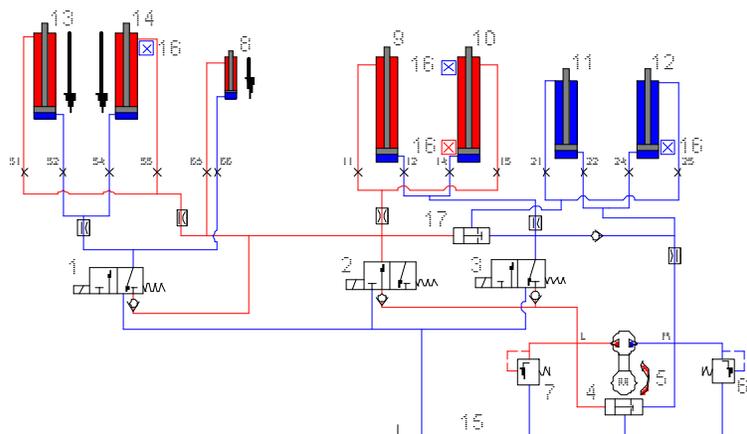
Step 5, locking the soft top cover.



F811D059

Position sensor	Status 5a	Status 5b
	<p><i>Pump left and solenoid valve 2 (lower soft top/lock front catch) until <u>Soft top cover raised</u> is "Off"</i></p> <p>Supervision time is 4 sec.</p>	<p><i>Pump left and solenoid valve 2 (lower soft top/lock front catch) until <u>Soft top cover locked left/right</u> is "On".</i></p> <p>Supervision time is 10 sec.</p>
First bow ready to be locked	Off	Off
First bow locked	On	On
Soft top cover locked left	Off	On
Soft top cover locked right	Off	On
Soft top cover up	Off	Off

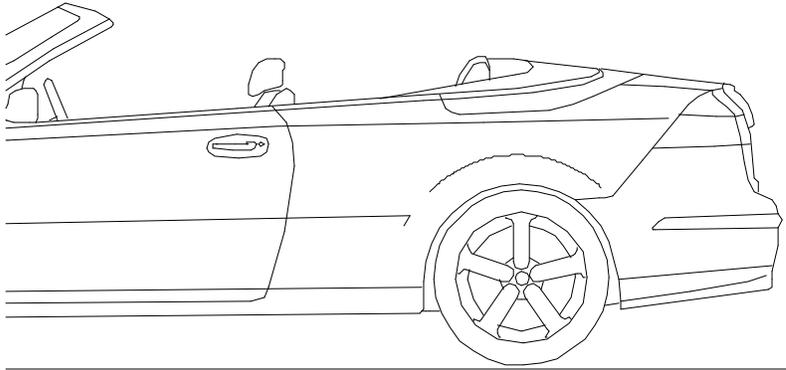
Sixth bow up	On	On
Sixth bow locked left	Off/On	On/Off
Sixth bow locked right	Off/On	On/Off
Soft top storage down	Off	Off
Main cylinder up	Off	Off
Main cylinder down	On	On



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7.

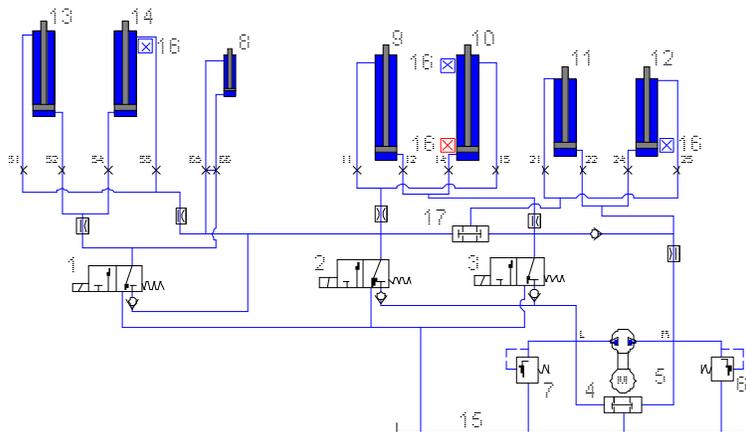
Status of position sensors prior to activation when the soft top is open.



F811D061

Position sensor	Status
	End of cycle "Lower soft top" (soft top fully open)
First bow ready to be locked	Off
First bow locked	On
Soft top cover locked left	On
Soft top cover locked right	On
Soft top cover up	Off
Sixth bow up	On
Sixth bow locked left	Off/On
Sixth bow locked right	On/Off
Soft top storage down	Off

Main cylinder up	Off
Main cylinder down	On

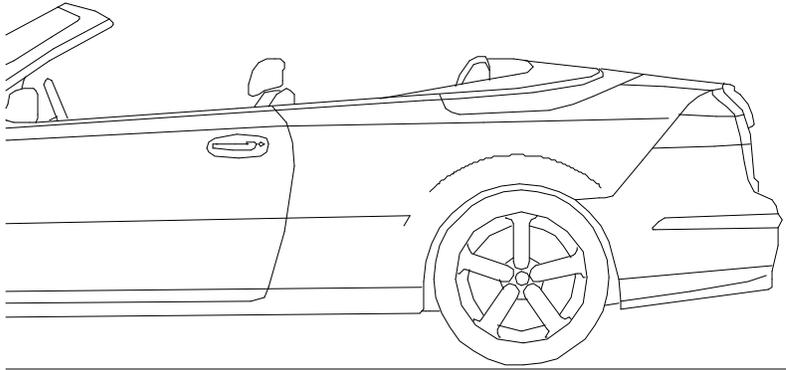


F811D062

Soft top sequences, closing the soft top, sensor inputs

1.

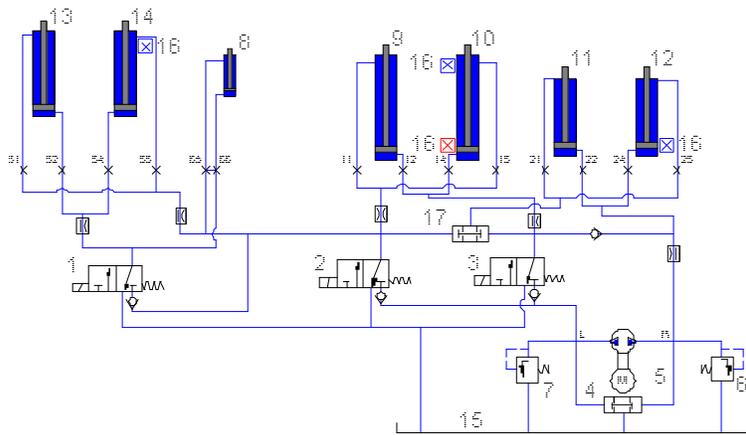
Status of position sensors prior to activation when the soft top is open.



F811D061

Position sensor	Status
	End of cycle "Lower soft top" (soft top fully open).
First bow ready to be locked	Off
First bow locked	On
Soft top cover locked left	On
Soft top cover locked right	On
Soft top cover up	Off
Sixth bow up	On
Sixth bow locked left	On/Off
Sixth bow locked right	On/Off
Soft top storage down	Off

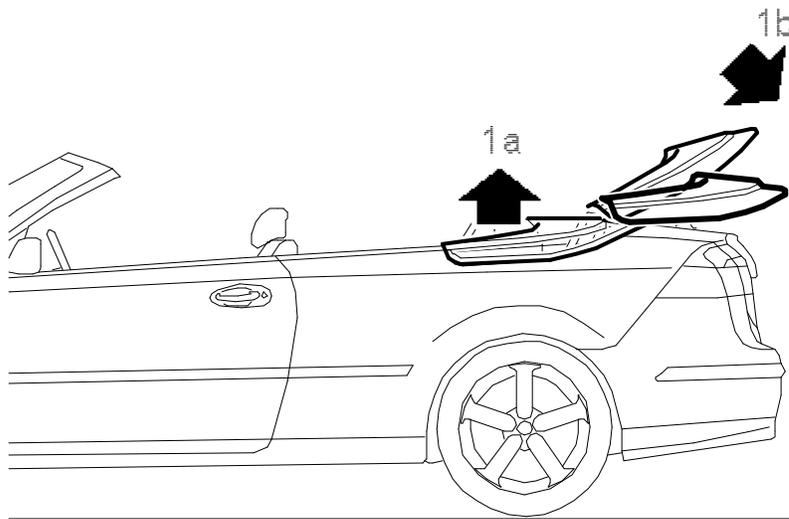
Main cylinder up	Off
Main cylinder down	On



F811D062

2.

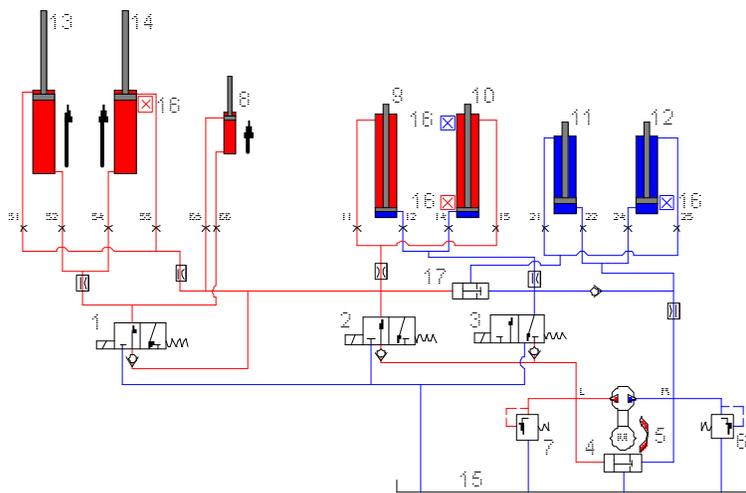
Step 1, opening the soft top cover.



F811D063

Position sensor	Status 1a	Status 1b
	<p><i>Pump left, solenoid valve 1 and 2 (raise soft top/release front catch) until <u>Soft top cover locked left/right</u> is "Off" and <u>First bow locked</u> is "Off"</i></p> <p>Supervision time is 10 sec.</p>	<p><i>Pump left and solenoid valve 2 (raise soft top/release front catch) until <u>Soft top cover raised</u> is "On", <u>First bow locked</u> is "Off"</i></p> <p>Supervision time is 10 sec.</p>
First bow locked	Off	Off
First bow locked	Off	Off
Soft top cover locked left	Off	Off
Soft top cover locked right	Off	Off
Soft top cover up	Off	On

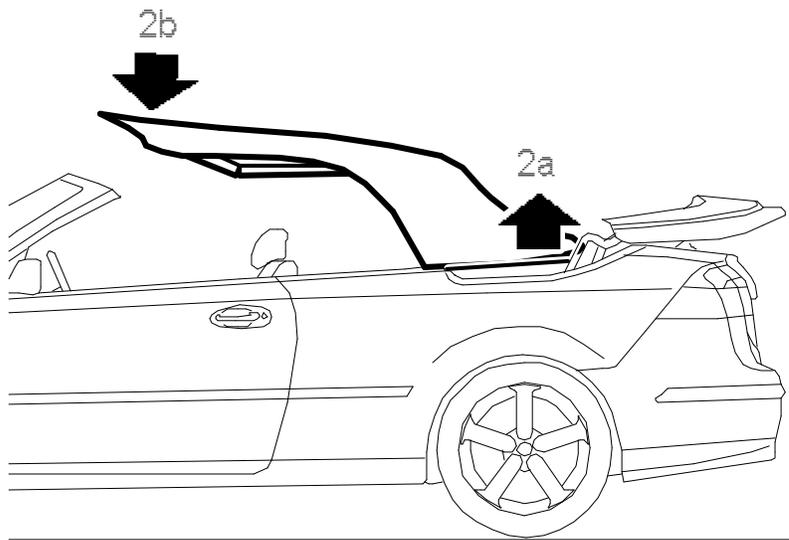
Sixth bow up	On	On
Sixth bow locked left	On/Off	On/Off
Sixth bow locked right	On/Off	On/Off
Soft top storage down	Off	Off
Main cylinder up	Off	Off
Main cylinder down	On	On



F81 1D064

3.

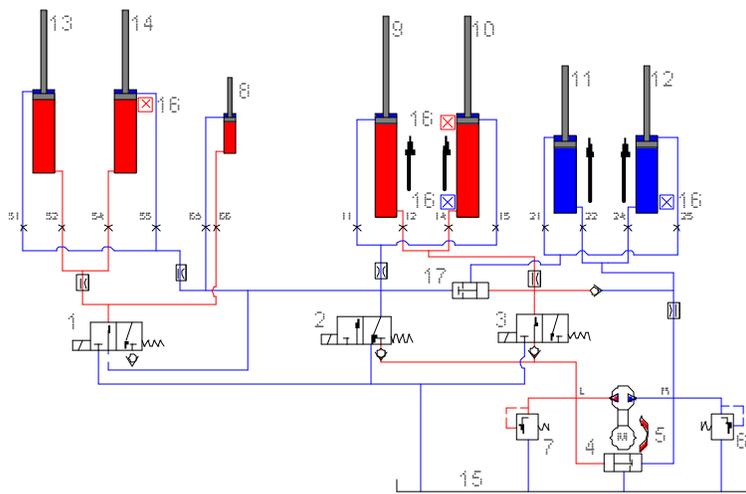
Step 2, raising the soft top.



F811D065

Position sensor	Status
	<p><i>Pump left, solenoid valve 1 and 3 (raise soft top) until switch <u>Main cylinder up</u> becomes "active"</i></p> <p>Supervision time is 10 sec.</p>
First bow ready to be locked	Off
First bow locked	Off
Soft top cover locked left	Off
Soft top cover locked right	Off
Soft top cover up	On
Sixth bow up	Off
Sixth bow locked left	Off

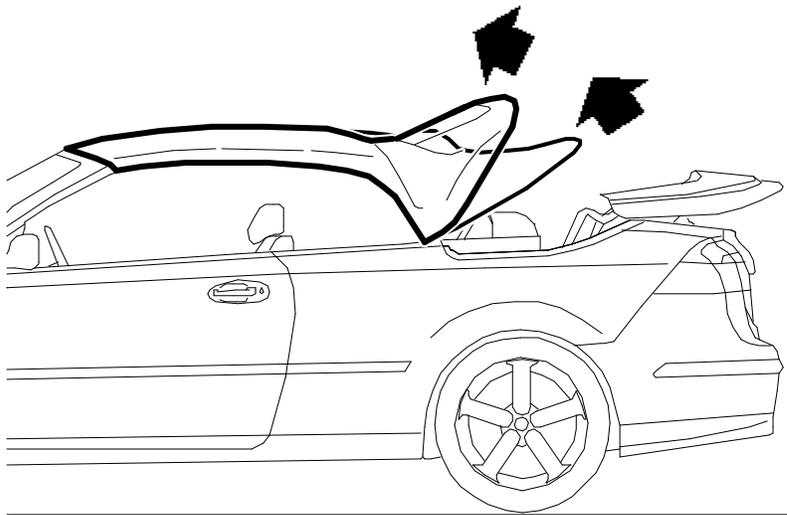
Sixth bow locked right	Off
Soft top storage down	Off
Main cylinder up	On (2b)
Main cylinder down	Off (2a)



F811D066

4.

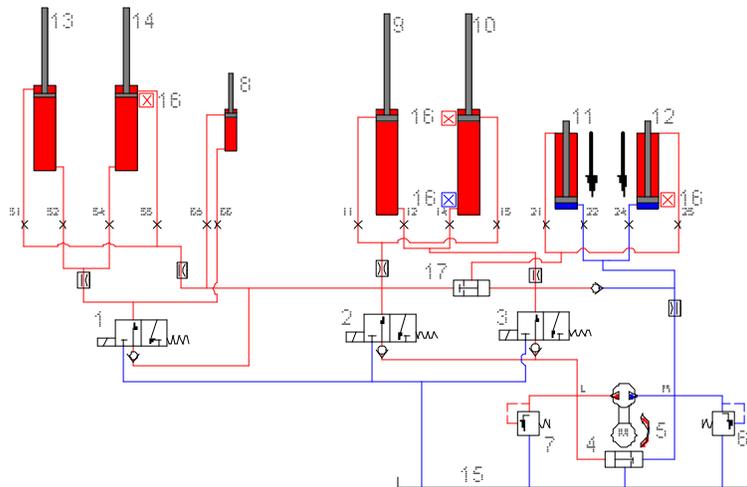
Step 3, opening the sixth bow



F811D067

Position sensor	Status
	<p><i>Pump left, solenoid valve 1, 2 and 3 (raise bow) until switch <u>Sixth bow raised</u> is "On"</i></p> <p>Monitoring time is 4 sec. + 10 sec.</p>
First bow ready to be locked	Off
First bow locked	Off
Soft top cover locked left	Off
Soft top cover locked right	Off
Soft top cover up	On
Sixth bow up	On
Sixth bow locked left	Off

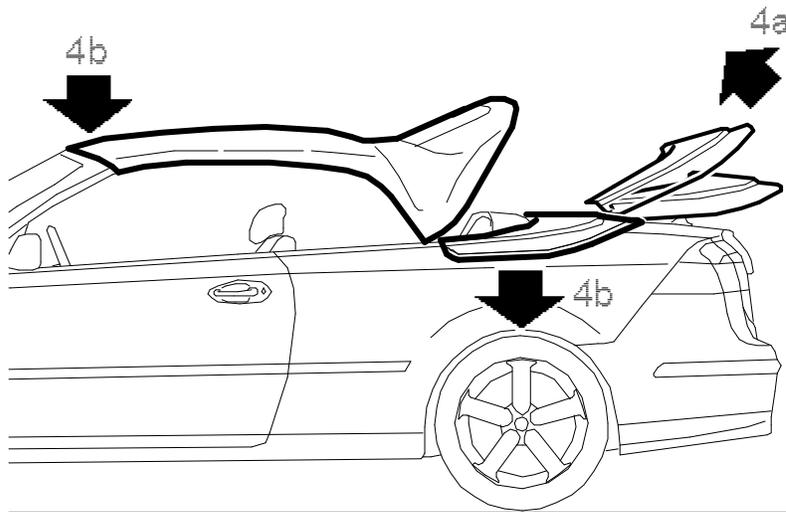
Sixth bow locked right	Off
Soft top storage down	Off
Main cylinder up	On
Main cylinder down	Off



FR11D068

5.

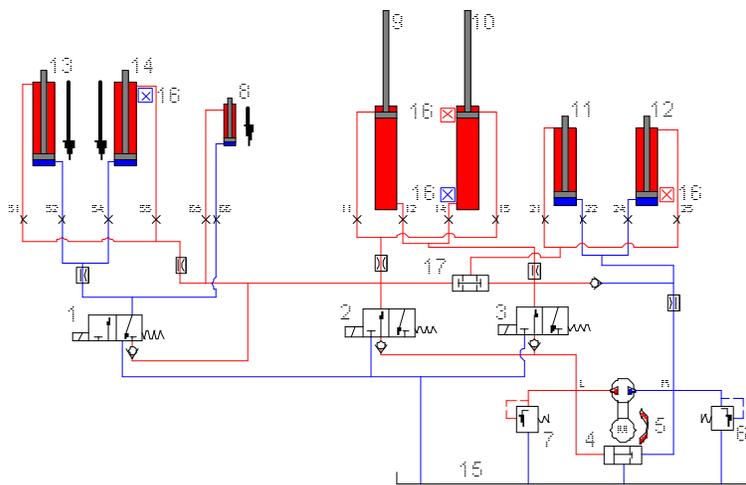
Step 4, locking the first bow and closing the soft top cover.



F811D069

Position sensor	Status 4a	Status 4b
	<p><i>Pump left, solenoid valve 2 and 3 (lower soft top cover/lock front catch) until <u>Soft top cover raised</u> is "Off"</i></p> <p>Supervision time is 10 sec.</p>	<p><i>Pump left, solenoid valve 2 and 3 (lower soft top/lock front catch) until <u>Soft top cover locked left/right, First bow locked</u> is "On"</i></p> <p>Supervision time is 10 sec.</p>
First bow ready to be locked, left	On/Off	On
First bow locked	On/Off	On
Soft top cover locked left	Off	On
Soft top cover locked right	Off	On
Soft top cover up	Off	Off

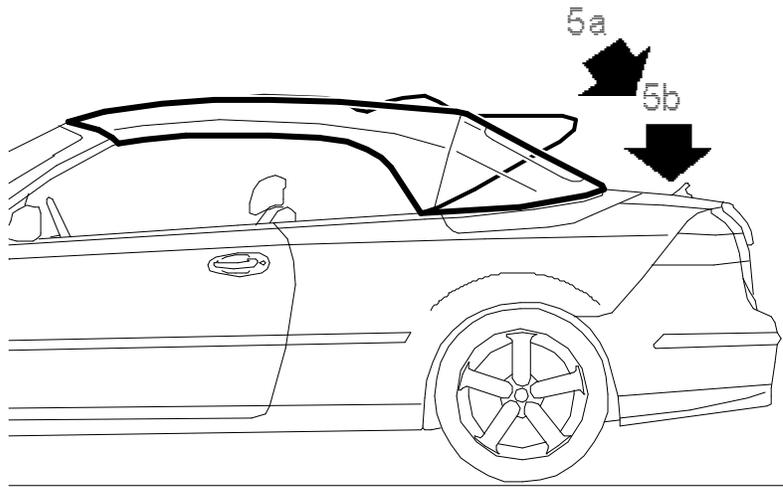
Sixth bow up	On	On
Sixth bow locked left	Off	Off
Sixth bow locked right	Off	Off
Soft top storage down	Off	Off
Main cylinder up	On	On
Main cylinder down	Off	Off



F811D070

6.

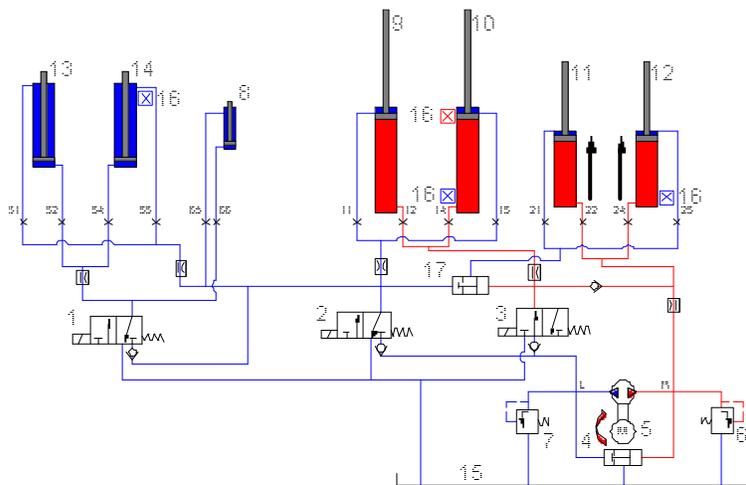
Step 5, closing the sixth bow



F811D071

Position sensor	Status 5a	Status 5b
	<i>Pump right and solenoid valve 3 (lower bow) until both <u>Sixth bow raised</u> are "Off"</i> Supervision time is 6 sec.	<i>Pump right and solenoid valve 3 (lower bow) until <u>Sixth bow locked, right/left</u> is "On"</i> Supervision time is 6 sec.
First bow ready to be locked, left	On	On
First bow locked	On	On
Soft top cover locked left	On	On
Soft top cover locked right	On	On
Soft top cover up	Off	Off
Sixth bow up	Off	Off

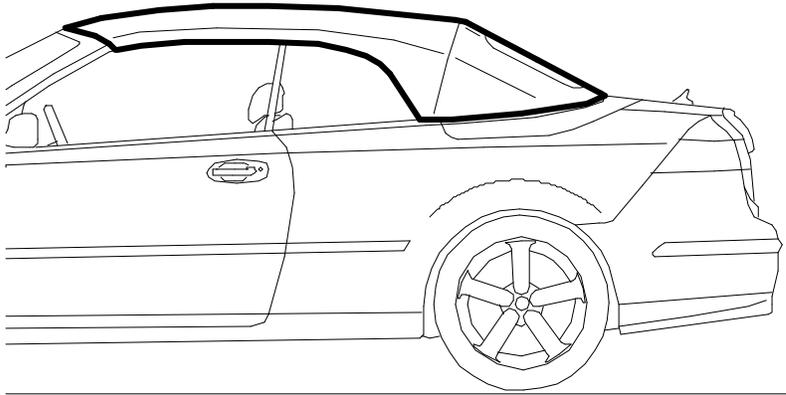
Sixth bow locked left	Off	On
Sixth bow locked right	Off	On
Soft top storage down	On	On
Main cylinder up	On	On
Main cylinder down	Off	Off



F811D072

7.

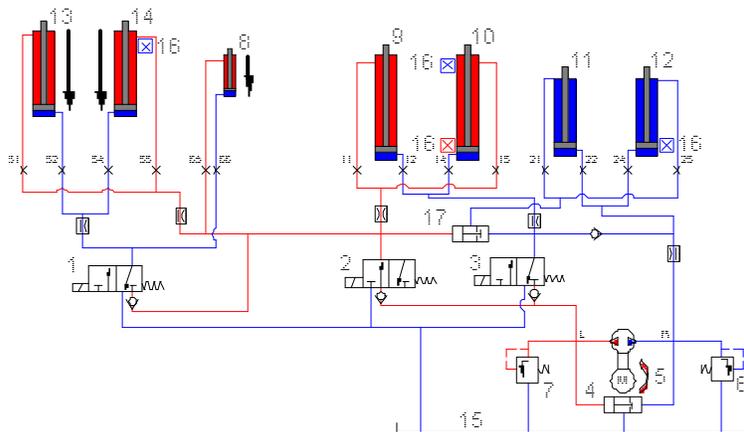
Status of position sensors when soft top is closed.



F811D092

Position sensor	Status
	End of cycle "Raise soft top" (soft top closed).
First bow ready to be locked	On
First bow locked	On
Soft top cover locked left	On
Soft top cover locked right	On
Soft top cover up	Off
Sixth bow up	Off
Sixth bow locked left	On
Sixth bow locked right	On
Soft top storage down	On

Main cylinder up	On
Main cylinder down	Off



F011D060

Window operation, opening the soft top.

1. Pressing the soft top button will send a "Soft top operation open" bus message from ICM.
2. STC opens the soft top if the conditions for operating the soft top are fulfilled.
3. When the soft top is lowered and the soft top cover is closed. The soft top status bus message changes from "lower sequence" to "open" and this will be indicated by ICM with a signal on the audio system.
4. If the button for soft top operation is held in STC will send the bus messages "Request to move front windows", "Automatic opening" and "Request to move rear windows", "Automatic opening". The windows are operated by each respective door module to their lowest positions.

There is no difference between cars with pinch protection and those without.

Window operation, closing the soft top,

1. Pressing the soft top button will send a "Soft top operation close" bus message from ICM.
2. STC closes the soft top if the conditions for operating the soft top are fulfilled.
3. When the soft top is fully closed, STC will send the bus message "Closed", ICM will indicate this with a signal on the audio system.
4. If the button for soft top operation is held in STC will send the bus messages "Request to move front windows", "closing" and "Request to move rear windows", "closing".

SID, text messages

The following messages are included in the soft top system and can be shown on SID together with an acoustic signal.

SID, text message	Cause	Suitable action
The front of the soft top is unlocked. Try again.	The automatic locking of the soft top to the windscreen frame was unsuccessful.	<ul style="list-style-type: none"> • Move the car to a level surface if it is standing on an incline. • Press down the button enough for the soft top to start being lifted from the windscreen frame. Stop the process and close it again.
Soft top motor overheated. Wait for it to cool down.	The soft top has been operated too intensively in a short period.	Wait for the soft top motor to cool down.
Remove the luggage carrier in order to operate the soft top.	Luggage carrier fitted	Remove the luggage carrier.

Open the boot lid. Move any luggage out of the way of the soft top.	The soft top storage is not in its lowest position.	Move whatever is obstructing the soft top storage.
The soft top can be damaged if operated in freezing conditions.	Stop if soft top is lowered when temperature is below -5°C	
Only manual operation is possible. Get in touch with your garage.	Diagnosis has discovered a fault.	Read DTCs/carry out fault diagnosis.
Soft top cover is unlocked. Try again.	Soft top cover latch has not locked.	Try again and perform fault diagnosis if necessary.
Poorly charged battery.	The car battery voltage is too low to operate the soft top.	Charge the battery.
Release and lower the roll-over protection. Get in touch with your garage.	One or both roll-over bars is up.	Push down the roll-over bars and try again.
Probable soft top collision. Remove the obstruction and try again.	Something is obstructing the soft top.	Remove the obstruction.
Raise/lower the soft top completely in order to open the boot lid.	The boot lid is open.	Stop operating the soft top.
Raise/lower the soft top completely before driving off.	The car is driven off before the soft top is closed.	Slow down to < 10 km/h and stop operating the soft top.
Close the tailgate.	The boot lid is open.	Close the boot lid.
The driver's seat is not locked.	The seat backrest is not locked.	Fold back the backrest completely to locked position.
The front passenger seat is not locked.	The seat backrest is not locked.	Fold back the backrest completely to locked position.