

Air conditioning system does not cool

Topic number	LI83.40-P-070472
Version	2
Function group	83.40 Air conditioning (automatic)
Date	12-03-2019
Validity	All vehicles of model series 167 from SOP
Reason for change	Document AR83.30-P-0015ME (remove/install dew point sensor) added. Damage code 8306752 added.
Reason for block	

Complaint:

Air conditioning system does not cool shortly after starting the vehicle.

Cause:

Evaporator drying may be activated due to incorrect signals coming from dew point sensor (B11/12). This may result in compressor switch off and lack of cooling.

Remedy:

Install XENTRY Version DVD 09/19 and add-ons 13688 and 13757. Connect the Xentry diagnostic device to the vehicle and read out the temperature values of the temperature and air humidity sensor (dew point sensor B11/12). If an implausible temperature is read out with Xentry (for example, -40F when ambient temperature is 70F), the dew point sensor must be replaced. Before handing the vehicle back to the customer, check the function of the new dew point sensor with the Xentry diagnostic device.

For work description for removal of sensor: see document AR83.30-P-0015ME

1. Remove glove box (see document AR68.10-P-1400ME, see attachment img01.jpg).
2. Disconnect the air conditioner control unit and remove the air conditioner control unit from its holder (see attachment img02.jpg and AR83.30-P-6600ME).
3. Push catch tab of air conditioner control unit bracket upwards and remove air conditioner control unit bracket (see attachment img03.jpg).
4. Grasp the top of the air conditioner housing (at an angle in direction of vehicle center/front). (see attachment img04.jpg)
5. Locate the dew point sensor by touch (see attachment img05.jpg, sensor is colored yellow).
6. Disconnect dew point sensor plug. To do so, release catch by pressing it down from the top (see attachment img06.jpg).
7. Sensor is inserted from the top downwards into the air conditioner housing. Release sensor by turning it clockwise approx. 1/4 of a turn and pull it out upwards (see attachment img07.jpg).
8. Assemble in the reverse order (pictures of sensor in attachment img08.jpg).

Attachments

XENTRY TIPS

File	Description
img01.jpg	Step 1
img02.jpg	Step 2
img03.jpg	Step 3
img04.jpg	Step 4
img05.jpg	Step 5
img06.jpg	Step 6
img07.jpg	Step 7
img08.jpg	Step 8

Symptoms

Body / Air conditioning / Air conditioning / Insufficient cooling output

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 905 52 07			Evaporator temperature and air humidity sensor	1		X

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
			83067 52	Dew point sensor

WIS-References

Document number	Title	Note	Allocation
AR68.10-P-1400ME	Remove/install glove box	Instructions for step 1	Remedy
AR83.30-P-0015ME	Remove/install dew point sensor		Remedy