Title Recall R89707: Air conditioner drain hose Ref No US31955.1.4 en-US

#### **Issuer Technical Service**

Partner 3 US 7510 Volvo Car USA Func Group 8700 Func Desc air conditioning unit

#### Attachment

File Name	File Si	ze
TJ 31955 Inspection.pdf	4.9656	MB
TJ 31955 Replacement.pdf	4.1918	MB
T1 31955 Wiring Repair if needed odf	1.8667	MB

#### Vehicle Type

TypeEng <mark>Eng</mark> Desc SalesBodyGearSteer	Model Year	Plant		Struc Week Range
234	2017-2017	21	0000001- 0005452	0-0
256	2016-2017	21	0000064- 0129750	0-0

**CSC** Customer Symptom Codes

CodeDescription

XW Service action/Recall/Service action/Recall

#### **VST Operation Number**

DTC Diagnostic Trouble Codes

Rows beginning with \* are modified Note! If using a printed copy of this Technical Journal, first check for the latest online version.

#### Text

#### **Description:**

Volvo Car USA LLC and Volvo Car Canada LTD (Volvo) on behalf of Volvo Car Group has decided to launch Recall R89707 on model year 2016 & 2017 XC90 & S90 vehicles.

Condensation water, transferred through the air conditioning drain hose, may leak into the passenger

compartment due to incorrect installation during vehicle assembly. If this condition should occur, it may result in moisture inside the passenger compartment, which could lead to air conditioning functionality issues.

If the leakage has not been detected over a period of time, this condition could affect SRS systems (airbag), enginemanagement systems etc. In such a case, the driver may experience various warning messages displayed in the Driver Information Module (DIM) identifying that a fault may be present and also providing guidance on how to proceed. Volvo therefore considers this a potential safety risk over time.

Status	Saved		
Status	2016-		
Date	10-06		
Issue	2016-		
Date	10-06		
Reference			

Service: \*Updated videos added 10/06/2016

The corrective action is to inspect the air conditioning drain hose to ensure correct installation per the attached Tech Journal 31955, and if necessary replace the drain hose. See <u>https://youtu.be/6tDCYCmvJUM</u>

Should there be water present beneath the carpet, the wire harness should be inspected. If the wiring is wet or corroded repair per the attached instruction. See https://youtu.be/AYVItPYBBcA

Vehicle Report: N/A

To view TJ attachment continue to next page. This TJ has three attachments.

Vor	$\Box$	′olvo C	ar Customer Service	TJ	31955
Title	tle Climate unit drain hose		it drain hose	Page	1 ( 11 )
Action		Inspection		Operation number:	98635-2
Issue	Date		Reason		
1	2016-0	9	First issue		

### Affected vehicles

Model year	Model
2017	S90 (17-)
2016, 2017	XC90 (16-)

# Equipment

Designation	Part No.
Interior trim remover	

**Orientation view** 



**Color symbols** 



Note! This colour chart displays (in colour print and electronic version) the importance of the different colours used in the images of the method steps.

- 1. Used for focused component, the component with which you will do something.
- 2. Used as extra colors when you need to show or differentiate additional parts.
- 3 . Used for attachments that are to be removed/installed. May be screws, clips, connectors, etc.
- 4 . Used when the component is not fully removed from the vehicle but only hung to the side.
- 5 . Used for standard tools and special tools.
- 6 . Used as background color for vehicle components.

Applies to the passenger side

### Removal



Remove the part carefully Remove the panel.



Remove passenger side sill moulding front,
refer to:
Removal, replacement and installation
8 - Body and interior
84 - Exterior trim, glass, weatherstrips
845 - sealing and protect. molding for
door, lid, and side window





# Caution! Make sure that the component is positioned correctly.

Fold the carpet to the side. Remove the part carefully Remove the marked part.

Check







# Caution! The grommet seal must rest on the metal surface, not on the carpet.

Note! Make sure that the seal is correctly located.



The graphic is just to show the back of the component and the location of the tabs. The component does not need to be removed if it is already correctly installed.



Check that the rubber grommet is not loose: 1 -First grab the hose connection and press inwards. 2 -Then pull outwards. 3 -Again push inwards.

If no faults are detected, to install, reverse the removal procedure.

If the result of the checking procedure is not OK, the component must be replaced with a new component.



Applies to the driver's side



The graphic shows the back of the component.

Remove driver side front sill trim panel, refer
to:
Removal, replacement and installation
8 - Body and interior
84 - Exterior trim, glass, weatherstrips
845 - sealing and protect. molding for
door, lid, and side window



Remove accelerator pedal, refer to: Removal, replacement and installation 2 - Engine with mountings and equipment 27 - Engine control 271 - gas pedal control





# Caution! Make sure that the component is positioned correctly.

Fold the carpet to the side. Remove the part carefully Remove the marked part.

Check







Caution! The grommet seal must rest on the metal surface, not on the carpet.

Note! Make sure that the seal is correctly located.

The graphic is just to show the back of the component and the location of the tabs. The component does not need to be removed if it is already correctly installed.





Check that the rubber grommet is not loose: 1 -First grab the hose connection and press inwards. 2 -Then pull outwards. 3 -Again push inwards.

If no faults are detected, to install, reverse the removal procedure.

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If the result of the checking procedure is not OK, the component must be replaced with a new component.



VOI		olvo (	Car Customer Service	TJ 3	31955
Title Climate unit drain hose		unit drain hose	Page	1 ( 10 )	
Action	l	Replacer	nent	Operation number:	98636-3
<b>Issue</b> 1	<b>Date</b> 2016-0	9	Reason First issue		

### Affected vehicles

Model year	Model
2017	S90 (17-)
2016, 2017	XC90 (16-)

		Materials	
Materials	Qty.	Part No.	Notes
Draining hose	1.0	31455693	XC90 - LHD - DRIVER SIDE;
Draining hose	1.0	31455694	XC90 - LHD - PASSENGER SIDE;
Draining hose	1.0	31390488	S90 - LHD - DRIVER SIDE;
Draining hose	1.0	31390489	S90 - LHD - PASSENGER SIDE;

#### **Orientation view**



**Color symbols** 



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- 4 . Used when the component is not fully removed from the vehicle but only hung to the side.
- ${\bf 5}$  . Used for standard tools and special tools.
- 6 . Used as background color for vehicle components.

Applies to the passenger side

### Removal





# Note! Use suitable paper to absorb any escaping fluid.

Undo the hoses from the connections. Remove the marked part.







Check



# Caution! Make sure that the area indicated is flat and free from damages.

Installation





# Caution! The grommet seal must rest on the metal surface, not on the carpet.

Caution! Be careful not to damage the catches.

Install the marked component. Press the marked component.



Check that the rubber grommet is not loose: 1 -First grab the hose connection and press inwards. 2 -Then pull outwards. 3 -Again push inwards.



# Note! Make sure that the seal is correctly located.

Install the nut.

Applies to the driver's side

### Removal





# Note! Use suitable paper to absorb any escaping fluid.

Undo the hose from the connection. Remove the marked part.





Make sure to replace the marked component with a new. Undo the hose from the connection. Remove the marked part.





Check



# Caution! Make sure that the area indicated is flat and free from damages.

Installation



Note! Use soap solution. Install the hose.



# Caution! The grommet seal must rest on the metal surface, not on the carpet.

Caution! Be careful not to damage the catches.

Install the marked component. Press the marked component.



Check that the rubber grommet is not loose: 1 -First grab the hose connection and press inwards. 2 -Then pull outwards. 3 -Again push inwards.



# Note! Make sure that the seal is correctly located.

Install the nut.

Vor	$\Box$	olvo Car Customer Service	TJ	31955
Title		Floor Harness Wiring Repair, if needed	Page	1(7)
Action		Only needed if the wiring is wet or corroded.	Operation number:	97172-3
Issue	Date	Reason		
1	2016-1	0 Method updated		

### Affected vehicles

Method updated

Model year	Model
2016, 2017	XC90 (16-)
2017	S90

Materials					
Materials	Qty.	Part No.	Notes		
Electrical tape	0.4 (roll)	9511028	2m PASSENGER SIDE		
			2m DRIVER SIDE		
Splice	2.6 (package)	9130476	PASSENGER SIDE		
Splice	92	9512783	DRIVER SIDE		
Splice	38	9512783	PASSENGER SIDE		
Repair terminal	1.3 (package)	30656639	PASSENGER SIDE		
Repair terminal	46	31288306	DRIVER SIDE		
Repair terminal	19	31288306	PASSENGER SIDE		

Special tools					
Description	Part No.				
Crimping tool (included in 9512669)	951 2785				

Equipment				
Designation				
Hot-air gun				

#### **Orientation view**



**Color symbols** 



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- 6 . Used as background color for vehicle components.

Removal

Remove front floor carpet, refer to:

Removal, replacement and installation 8 - Body and interior 85 - Interior 855 - other upholstery

Repair

Applies to both sides.

Follow VIDA instructions regarding cable splicing, refer to:

- Cleaning, Inspection and Adjustment
- 3 Electrical system
- 37 Cables and fuses
- 371 cables



Cut off and discard of connector/connectors. Only work on one harness at a time.

Wire splicing without extension wire.









Minimize the untwisted length. Point both splices in the same direction. Use hot air gun, use tape. Seal the unused end of the splice.



#### Installation

Foute the repaired harness back in the same	ne position.
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To install, reverse the removal procedure.