



Technical Journal

TITLE:

Anti-Tamper device , communication lost

REF NO:
TJ 27910

ISSUING DEPARTMENT:
Technical Service

CAR MARKET:
United States and Canada

PARTNER:
3 US 7510 Volvo Cars North America

ISSUE DATE:
YEAR MONTH DAY
2015 02 25

FUNC GROUP:
2610

FUNC DESC:
Radiator and connections

Page 1 of 12

“Right first time in Time”

Attachment

File Name	File Size
Attachment TJ27910.pdf	2.3978 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
124	94	B6324S4					2011-2013		-	201020-201235
124	96	B6324S2					2010-2010		-	200920-201019
135	96	B6324S2					2010-2010		-	200920-201019
136	94	B6324S4					2011-2013		-	201020-201235
136	96	B6324S2					2010-2010		-	200920-201019
156	94	B6324S4					2011-2013		-	201019-201235
156	96	B6324S2					2010-2010		-	200920-201019

CSC Customer Symptom Codes

Code	Description
DL	Warning lights and chimes/Malfunction Indicator Light ("Check engine" light) indication/no indication



VST Operation Number

VST Operation Number	Description
98546-2	Radiator anti tamper device
36002-3	Software download
36001-2	Read/delete known DTC

DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
ECM	P256702	Permanent
ECM	B108700	Permanent
ECM	U028600	Permanent

Rows beginning with * are modified

Note! If using a printed copy of this Technical journal, first check for the latest online version.

Text

ECM = Engine Control Module

NOTE! THIS DOCUMENT SUPERSEDES THE PREVIOUS TECHNICAL JOURNAL 27910 DATED 2015-01-26. Updated VST Operation number. PLEASE UPDATE YOUR FILES.

DESCRIPTION:

The anti-tamper device on the radiator may lose communication with the ECM.
In those cases the check engine light (MIL malfunction indication lamp) may show up.

PRODUCT MODIFICATION:

An improved anti-tamper device is introduced from 2012w35 in production.

VEHICLE REPORT:

Yes, please submit a Vehicle Report if the service solution described in this TJ has no effect or if the vehicle is outside the chassis number range. Use concern area "Vehicle Report" and sub concern area "Support not needed", use function group 2610.

*SERVICE:

If ECM-U028600 and/or ECM-P256702 are set with no history of ECM-B108700, then perform an ECM upgrade. The MIL will not be illuminated due to ECM-U028600.

*If ECM-B108700 is set in combination with ECM-U028600 and/or ECM-P256702, then replace the anti tamper device. See **attachment**.

If ECM-B108700 is set by itself when the vehicle comes in, then perform LIN and charging system diagnostics and remedy as necessary.

**VOLVO STANDARD TIMES (VST) OPERATION NUMBER:**

Operation Number 36001-2 Read/delete known DTC

Operation Number 36002-3 Software download

Operation Number 98546-2 Radiator anti tamper device

To view TJ attachment continue to next page. This TJ has one attachment.



Volvo Car Customer Service

TJ Instruction 27910

Title	Radiator anti tamper device	Page	1 (9)
Action	Replacement	Operation number:	98546-2

Issue	Date	Reason
1	2014-12	First issue

Affected vehicles

Model year	Model	Engine	Partner group
2010, 2011, 2012, 2013	S80 (07-)	B6324S2, S4	America
2010	V70 (08-)	B6324S2	America
2010, 2011, 2012, 2013	XC60	B6324S2, S4	America
2010, 2011, 2012, 2013	XC70 (08-)	B6324S2, S4	America

Materials

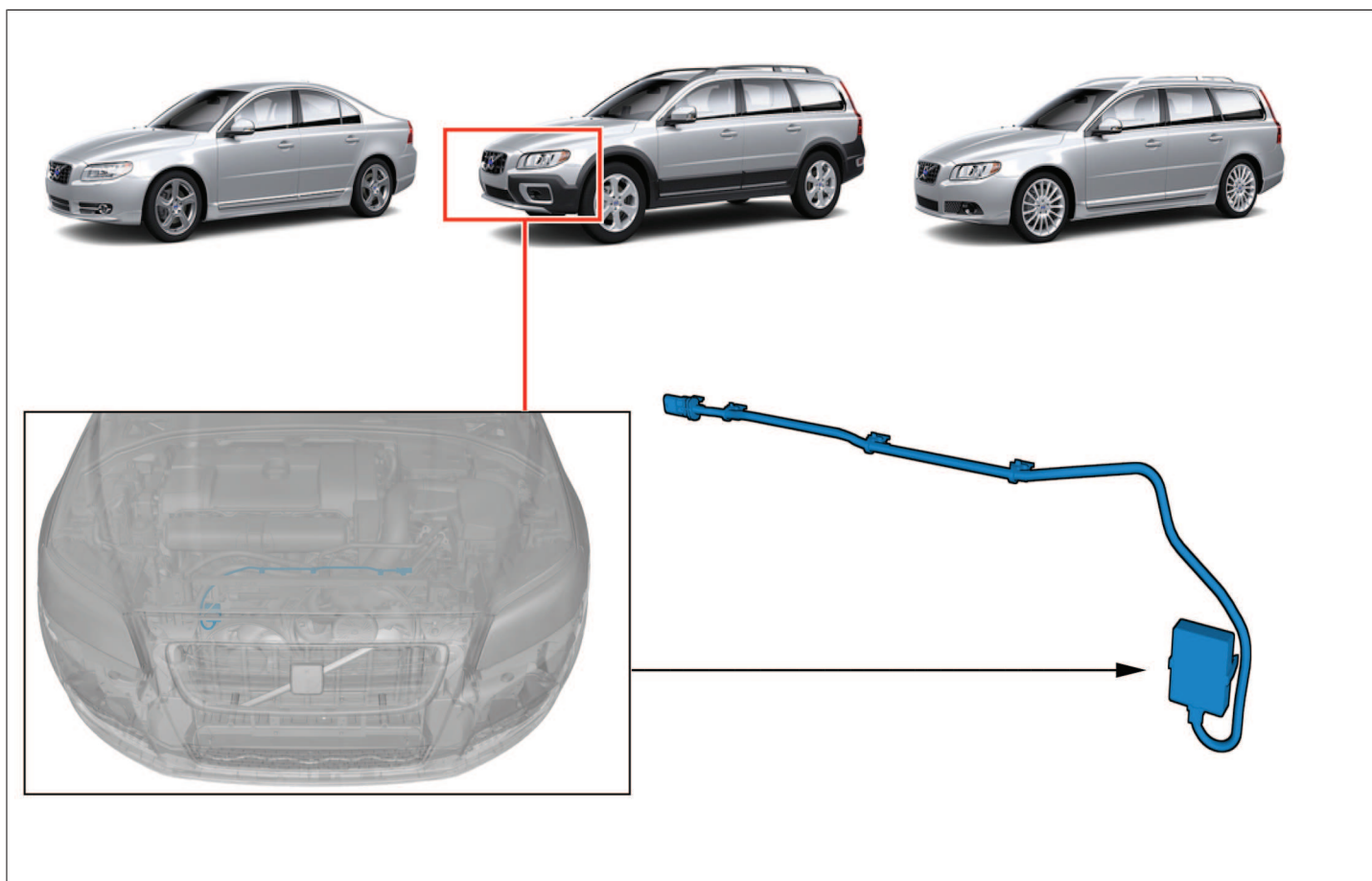
Materials	Qty.	Part No.	Notes
Power steering fluid	0.3	30741424	
Rapid bonding adhesive-allround	0.1	1161624	consumables;
Sensor	1.0	31321504	
Cable tie	1.0	987728	

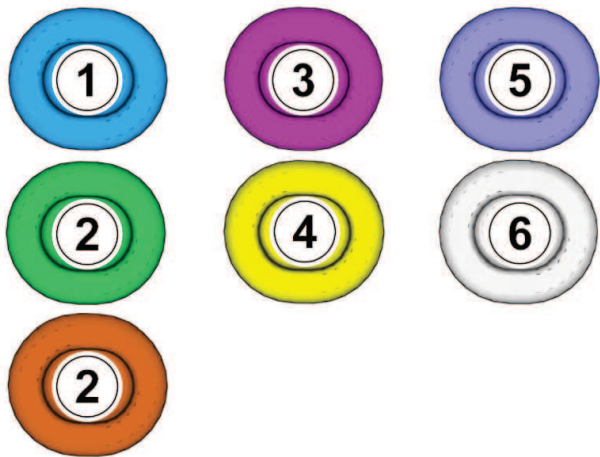
Equipment

Designation	Part No.
Pipe wrench	

Removal

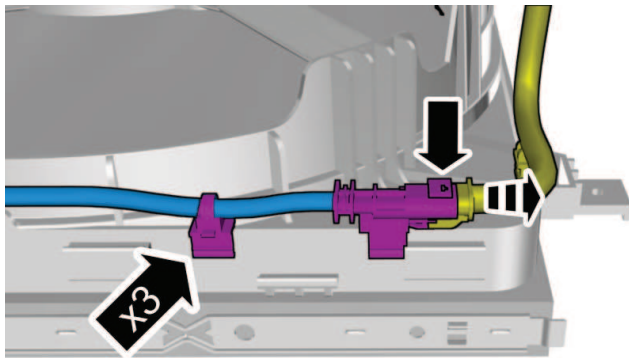
Note! Removal steps in this procedure may contain installation details.



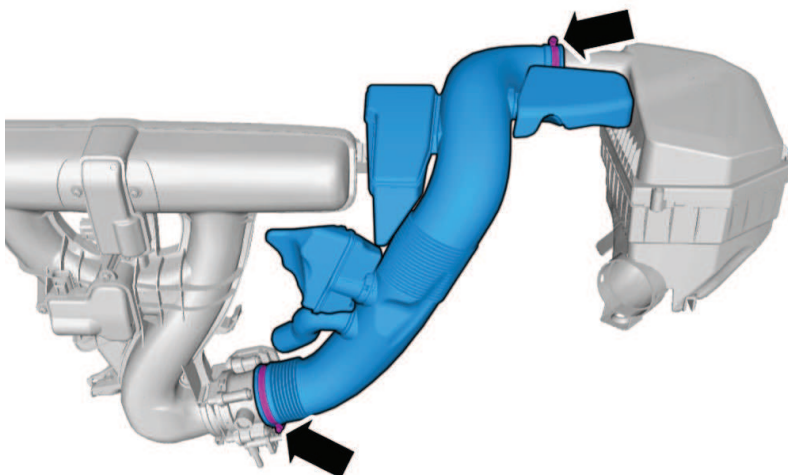


Note! This colour chart displays (in colour print and electronic version) the importance of the different colours used in the images of the method steps.

- 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.

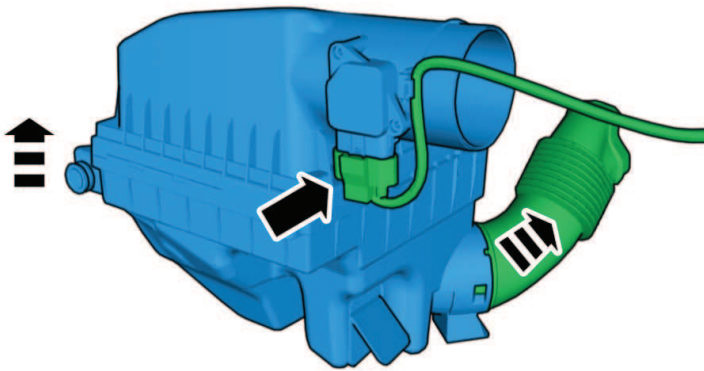


Disconnect the connector.
Loosen the clips.



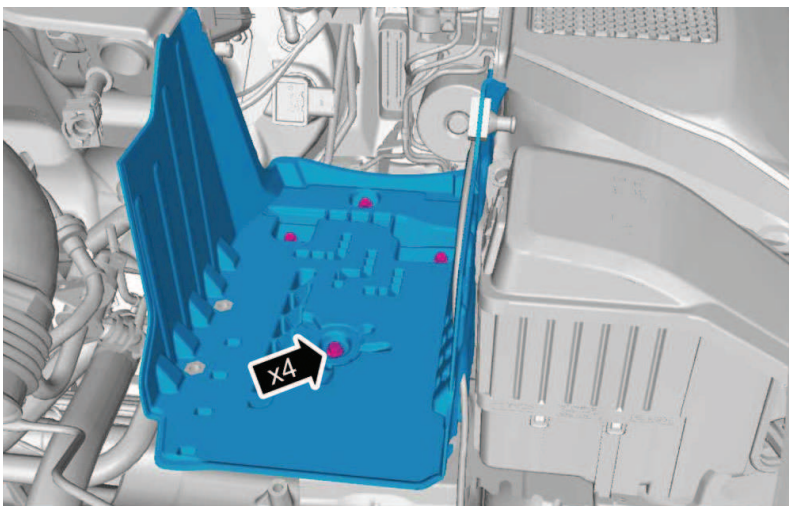
Loosen the hose clamps.
Remove the marked part.

Vehicles with mechanical power steering pump



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

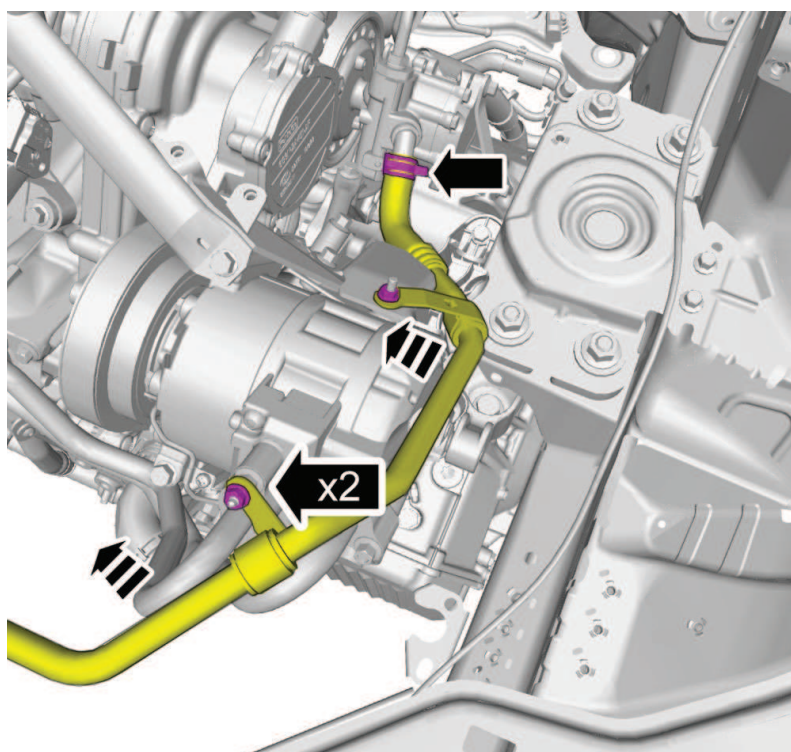
Remove battery , refer to:
Removal, replacement and installation
3 - Electrical system
31 - Battery and mounting
311 - battery



Remove the screws.
Remove the marked part.

Torque:

M6 , 10 Nm



Warning! Be prepared to collect escaping fluid.

Caution! Make sure that all openings are sealed.

Remove the nuts.

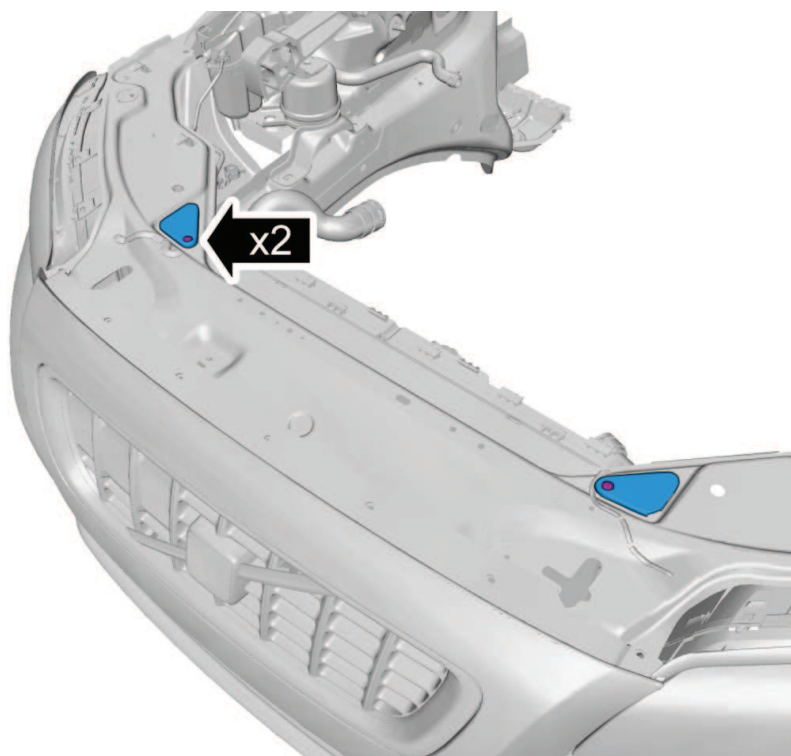
Torque:

M6 , 10 Nm

Use: Power steering fluid , 30741424

Fold marked part to one side.

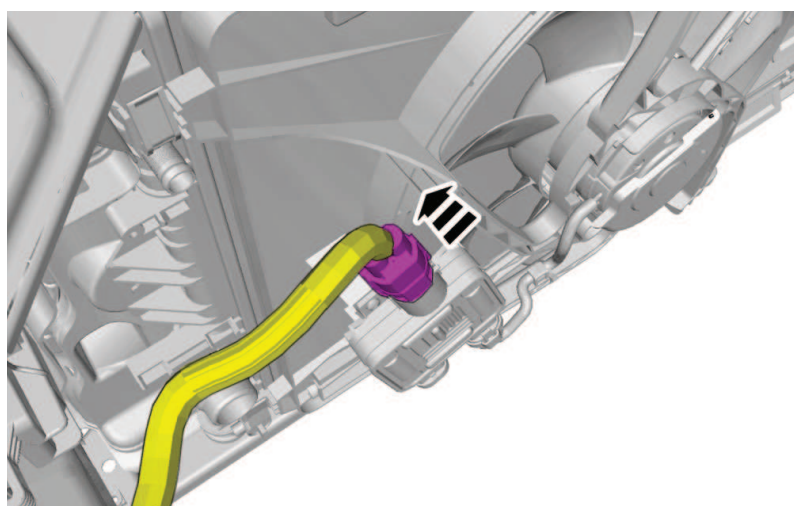
All vehicles



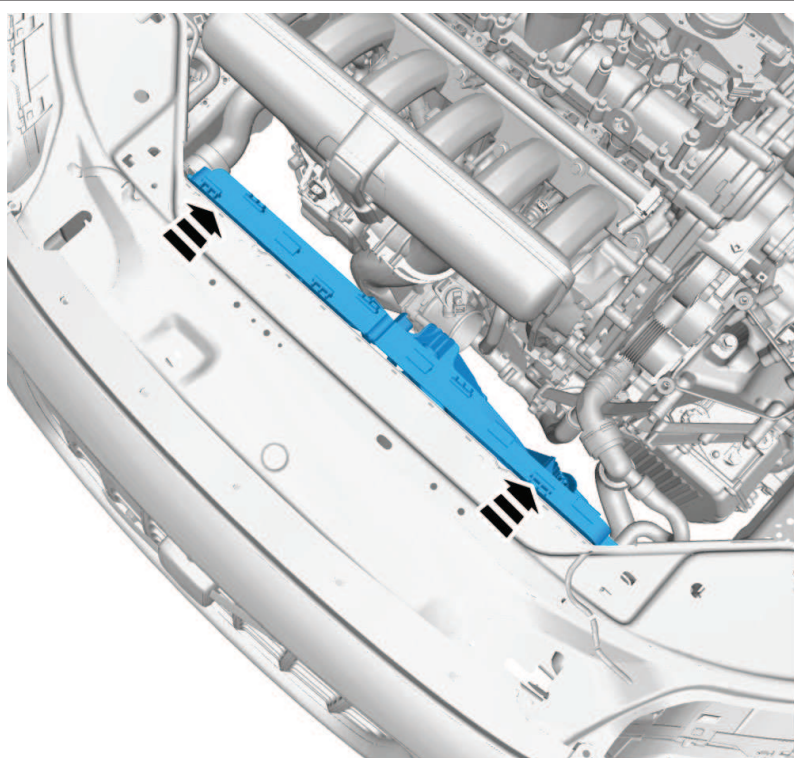
Remove the screws.

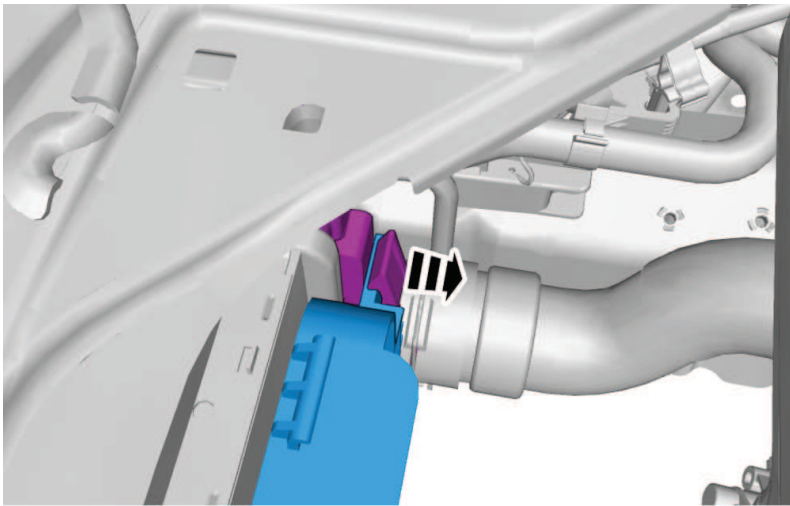
Torque:

M5 , 5 Nm

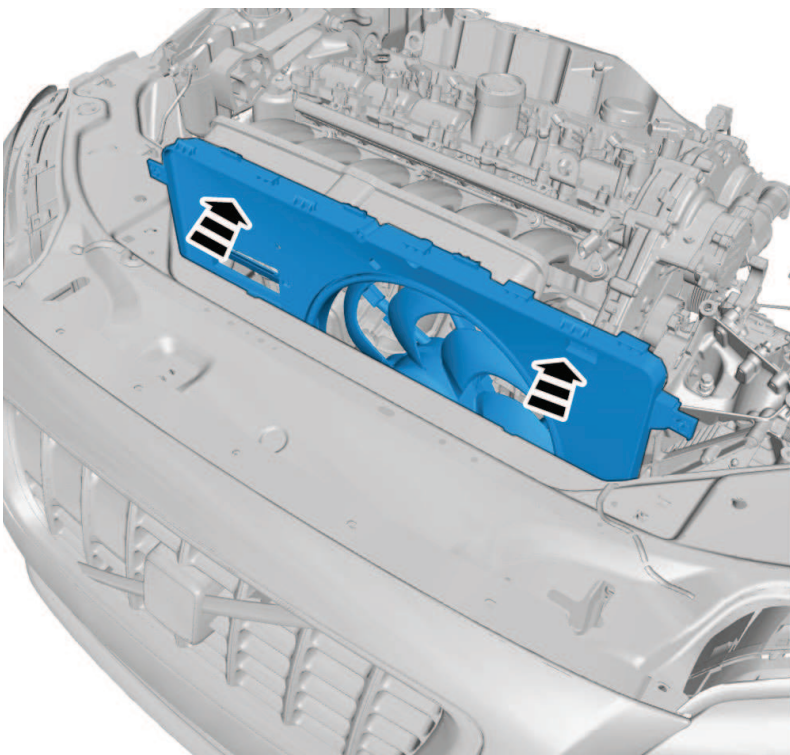


Disconnect the connector.

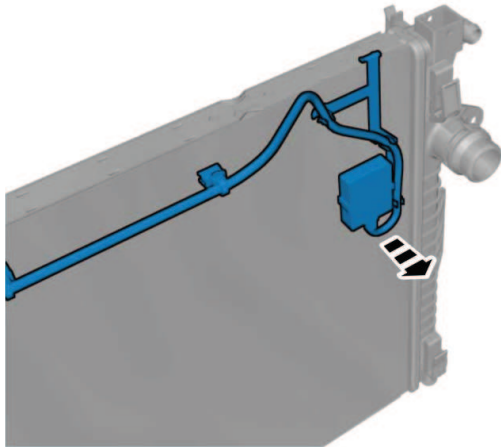




Release the catch.
On both sides.



Hint: It may be necessary to twist or turn
the component.

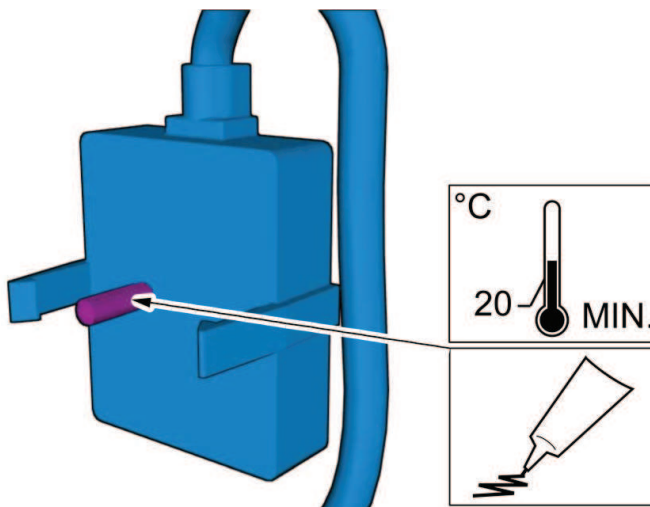


Use: Pipe wrench

Remove the marked part.

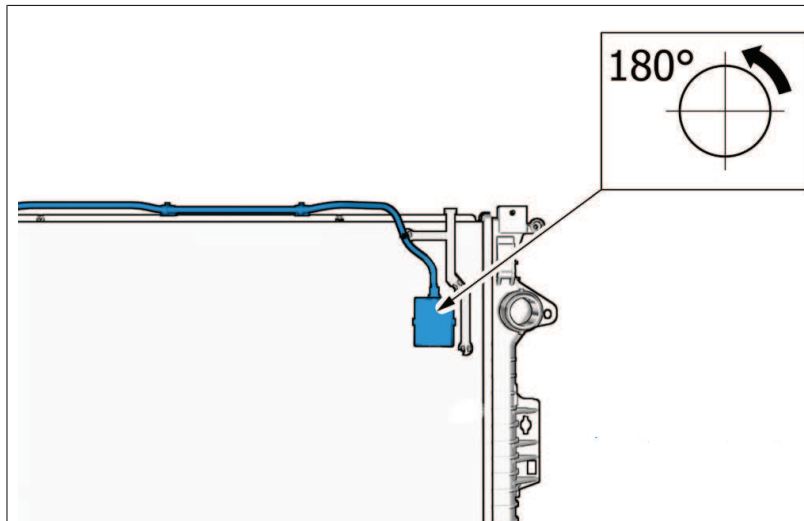
Installation

To install, reverse the removal procedure.

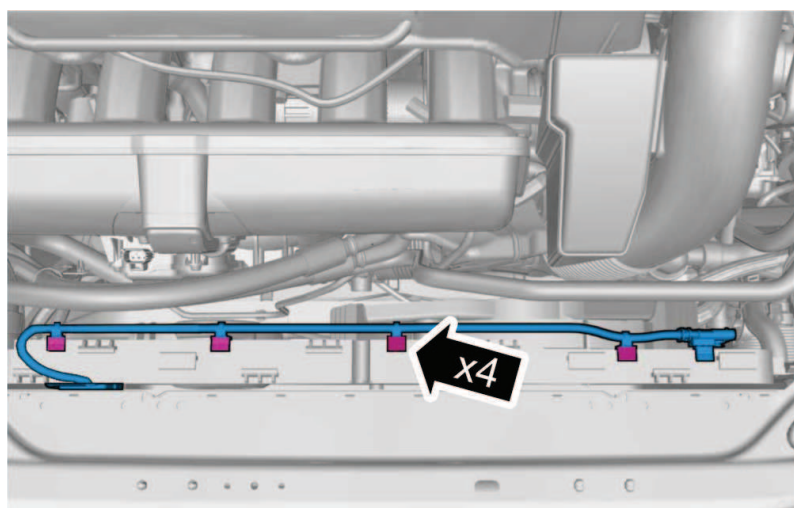


Caution! Apply the adhesive carefully as illustrated.

Use: Rapid bonding adhesive-allround ,
1161624



Caution! Make sure to place the component as the graphic shows.



Install the clip(s).