

L73X-A.09.17	To: Official After Sales Network Subject: Installation of water expansion tank. Date: September 29, 2017 Pages: 15	
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Campaign code.

L73X-A.09.17

Campaign description.

Installation of water expansion tank.

Model.

Aventador Coupè and Roadster.

Model year.

From 2012 to 2017

Special or Limited Versions.

All.

Markets.

All Market

VIN identification

From **CLA00091** to **HLA05935**

Warning: before starting with the repair, log to the Warranty portal and check through VIN Info:

- The vehicle is effectively involved by these bulletin instructions; some cars may not be included even when they are in the VIN range.
- The procedure identified by a letter (e.g. A, B or C....etc. whose differences are explained below in this bulletin), taking care to order and use the parts corresponding to the assigned procedure.

Example

VIN 17 DIGIT VIN		Model	MODEL NAME		Warranty Start Date DD/MM/YYYY		Warranty End Date DD/MM/YYYY	
Total days of workshop repairs: 0								
Prior activated CPO list								
CPO	Validity months	Classification	Mileage	Insertion date	Approval date	Start date	Expire date	Claim status



Note

Procedure A will be available only when the instructions require to carry out a preliminary control to determine whether or not a vehicle needs to be updated.

Information to the field

As a result of continuous product monitoring, Automobili Lamborghini Spa found that the water expansion tank may leak either under severe driving condition or at high ambient temperature.

Field solution

The instruction herein detailed describes two procedures:

- B, which concerns the installation of a new water tank made of aluminum with the related brackets and fasteners.

Spare parts.

Order the following part number which are connected to the operation required:

- Operation B – water tank installation.

P/N	Description	Q
470198040	Water tank Kit : - Water expansion tank (470121407A)* - sensor (470919473)* - bracket (470121409) - bracket (470121125) - puffer (8Z0129669A) - clamp (N0206473) - nut (N01508210) - screw (N90944604) - clamp (N90686701) - screw (N10558102) - cap (420121321) - clamp (3D0971838L) - clamp (5M0971838) - Clip (3W0971838)	1



*Important!

Some kits may include only a water tank (470121403) having preinstalled the sensor instead of the two separate items (470121407A and 470919473).

Replaced parts management.

Store properly and tagged the parts replaced with bar code form for their identification during Area Manager visits.

Labour time

- Water tank installation **1,8 hour**.

Substituted former Bulletins.

None.

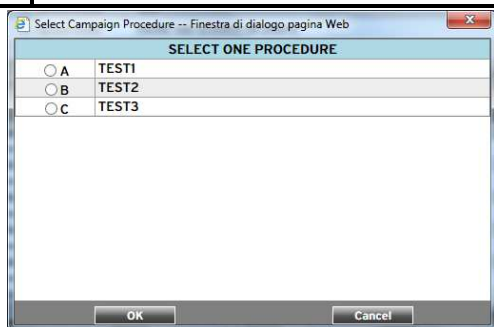
Warranty Claim instructions

To claim the reimbursement log into the warranty system management on the Lamborghini Portal and consults the manual "W.Claim " available on the portal for the download .

Select the desired campaign and go on with the claim insertion, read carefully the windows message content and choose the option button corresponding to the operation performed .

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On the base of the chosen option the reimbursement will be:

- OPTION B, water tank installation manpower: 1,8h
spare parts: 470198040,

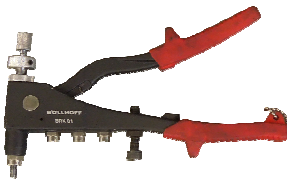


ATTENTION!

Attach all documents produced during the vehicle visit that show evidence of the work performed such as repair order, software protocols or acquisitions...etc.; the lack of one or more of those, may deny the reimbursement.

Remember to fill all data in the section “Service and Recall Campaign” in the Warranty booklet of the vehicle as shown below.

Necessary tools/material.

P/N	Description	Q
-n/a	Riveting tool 	1
VAS 6096/1	Tank for tool for filling the engine cooling system  T000_62x15_6000013	
-n/a	Pressure syringe 	
-n/a	Tubing clamp 	

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-n/a	Funnel 	
-n/a	Rear cover protection 	

Removing/Installing the Engine compartment rear finishing panel:



ATTENTION

Wait until the vehicle has cooled down completely.



IMPORTANT

Use body protection cover for Aventador to avoid damaging of the bodywork.

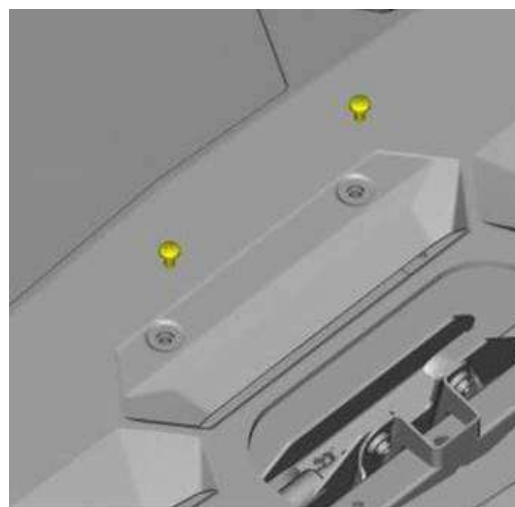
1. Unscrew the 2 screws.



Notes for re-installation

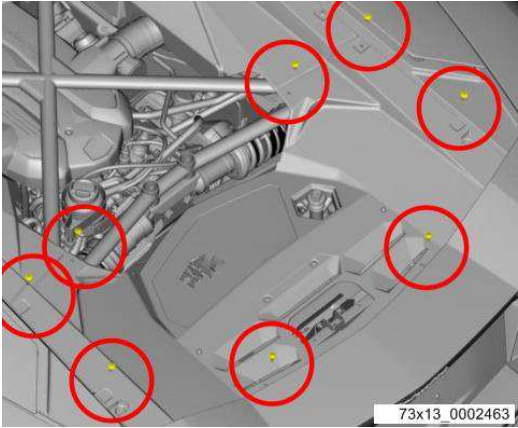
Tighten the screws.

Tightening torque: 6.00 Nm (4.43 lbf ft).



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2. Remove the 8 screws.

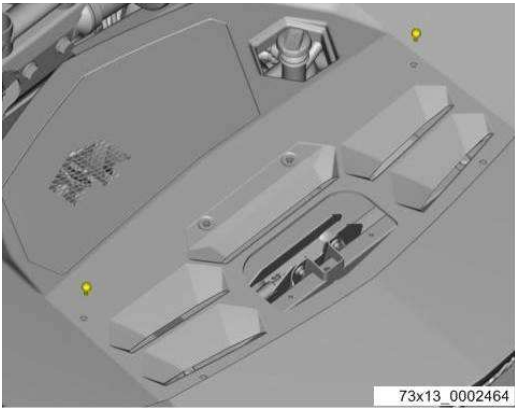


3. Remove the 2 puffers.

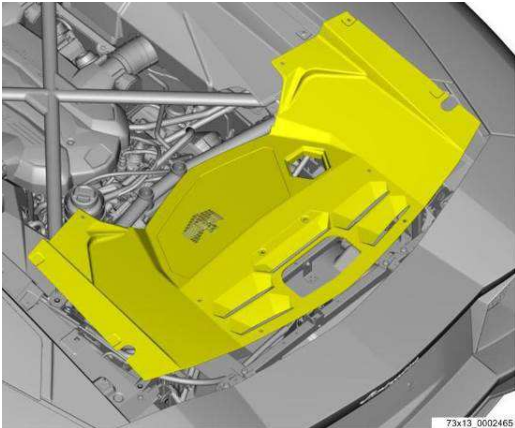


Notes for re-installation

Apply low-strength thread sealant before the installation procedures.



4. Remove the rear finishing panel of the engine compartment.



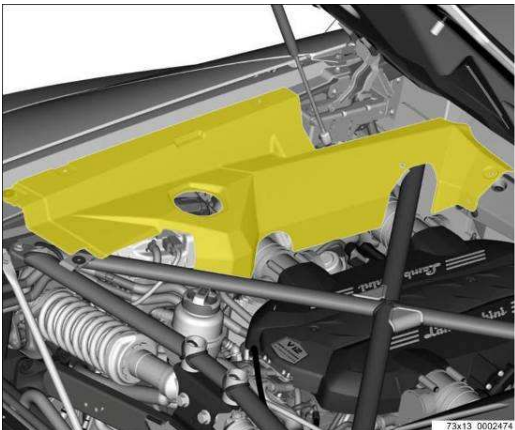
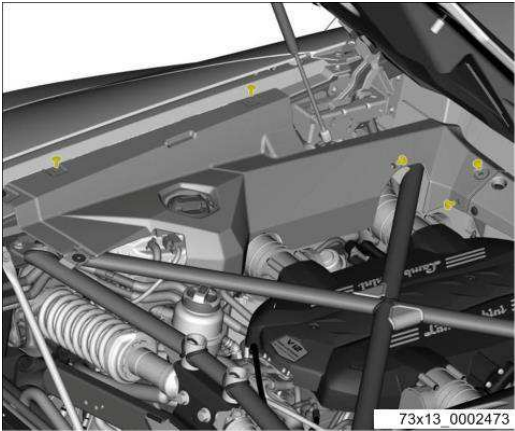
Removing/Installing the Engine compartment left finishing panel:



ATTENTION

Wait until the vehicle has cooled down completely.

5. Remove the 5 screws and remove the left finishing panel of the engine compartment.



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Draining the engine cooling system (coolant tank):



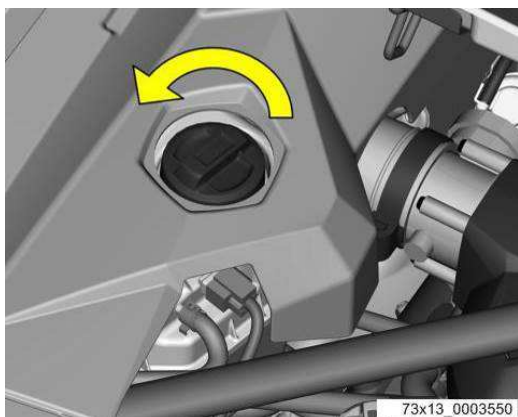
ATTENTION

Wait until the vehicle has cooled down completely.

6. Prepare the necessary tools (as shown at page 2):

- Code: VAS 6096/1
Tank for tool for filling the engine cooling system.
- Pressure syringe.

7. Remove the cap on the coolant tank.



WARNING

Prepare a container in case you need to collect any liquids.

8. Remove the coolant from the tank with pressure syringe (about 3 liters).



IMPORTANT

Before starting the vehicle perform the filling.

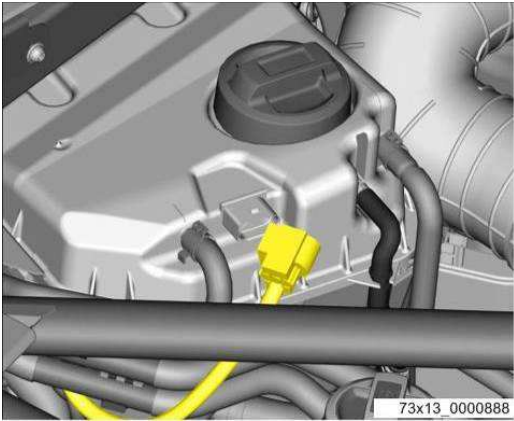
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Disassembly/Assembly water cooling circuit tank (Nourice).

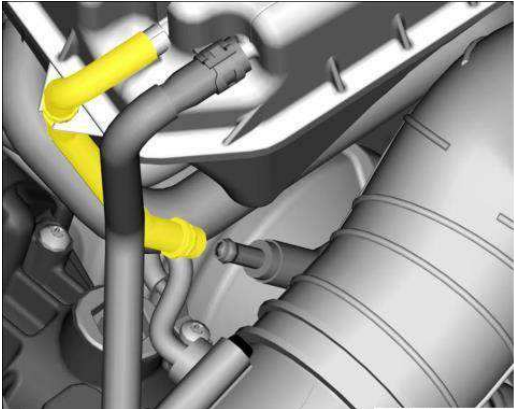
 **ATTENTION**
Wait until the vehicle has cooled down completely.

 **ATTENTION**
Coolant residues may remain inside hoses thus mind drips.

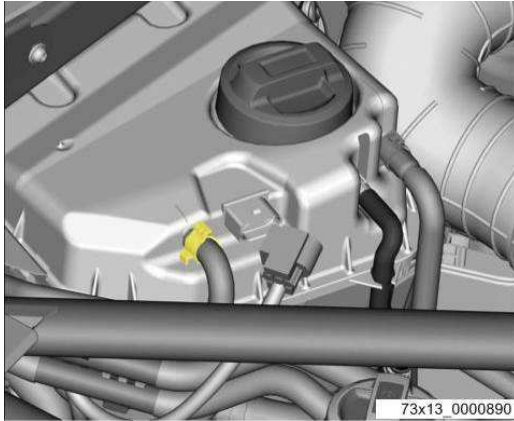
9. Remove the connector.



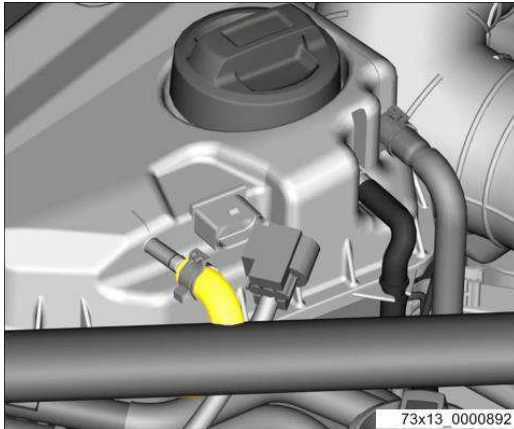
10. Remove the tube.



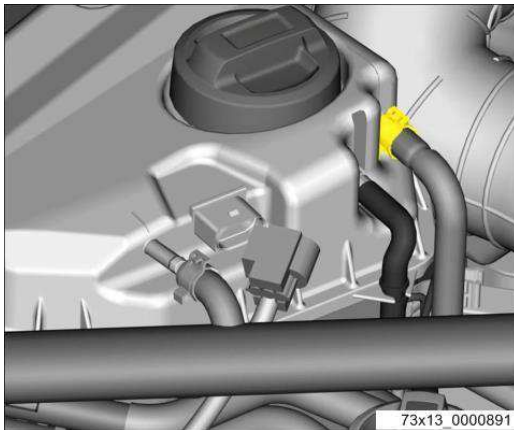
11. Open the clamp.



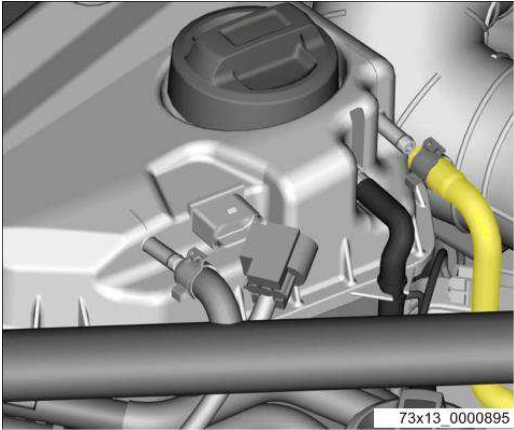
12. Remove the tube.



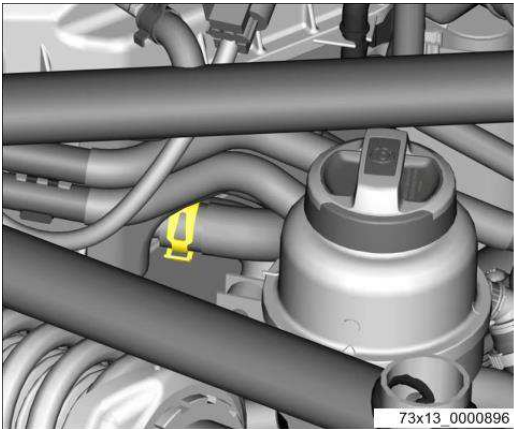
13. Open the clamp.



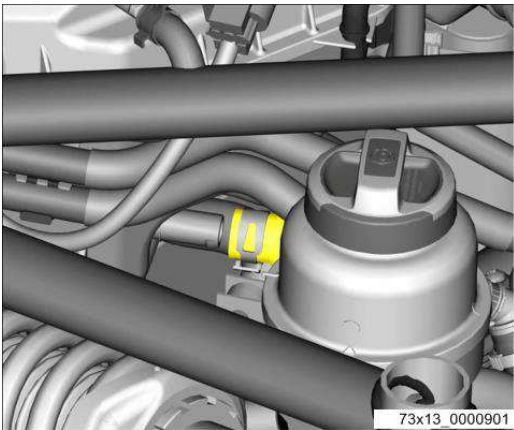
14. Remove the tube.



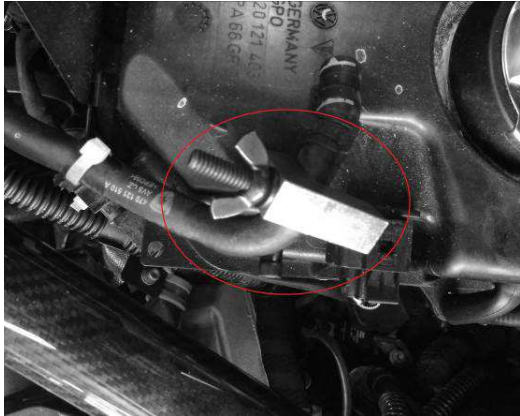
15. Open the clamp.



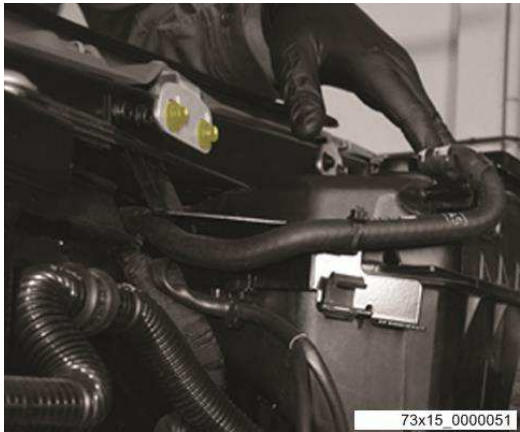
16. Remove the tube.



17. Use the tubing clamps to close the tubes and avoid possible coolant leak.

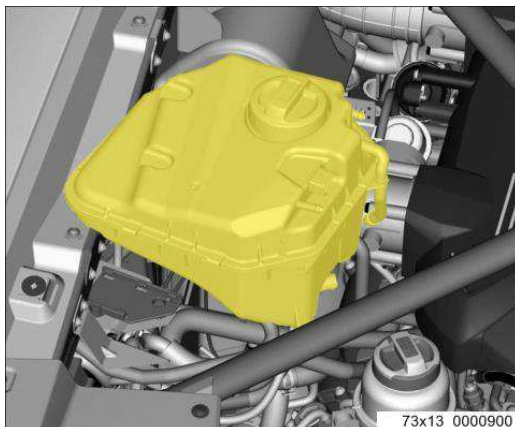


18. Unscrew the 2 screws.



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19. Remove the tank.



Installation procedure for aluminum tank



Important!

Lamborghini may supply different part numbers for aluminum tanks and sensors, according to availability.

- 470121407A (Tank) or 470121407 (Tank) + 470919473(Sensor) (CASE A);
- 470121403 (CASE B);

CASE A:

Tank and sensor supplied separately. In this case, the sensor must be installed on the tank after the threaded hole has been treated with isopropanol.



ATTENTION

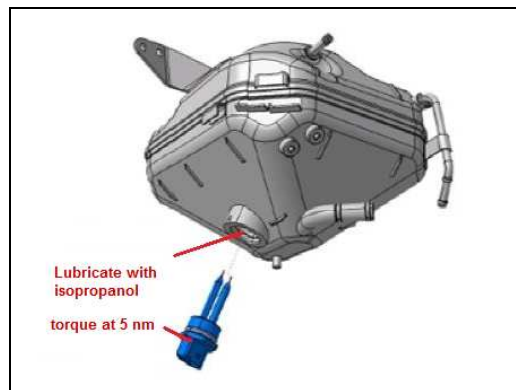
Don't use any other chemical substance (use only isopropanol or isopropyl alcohol).



Notes for re-installation

Tightening the sensor.

Tightening torque: 5 Nm (4.43 lb ft) $\pm$ 10%



CASE B:

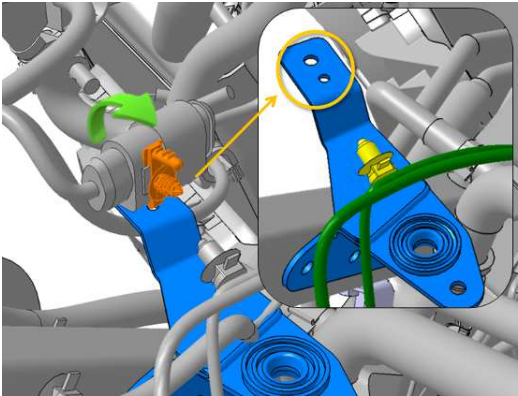
Tank and sensor are supplied already assembled. No mounting procedure is necessary.

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20. Remove the connector.



21. Remove the connector.



22. Remove the press clip from the old bracket.



23. Remove the old bracket, unscrew the 3 screws.



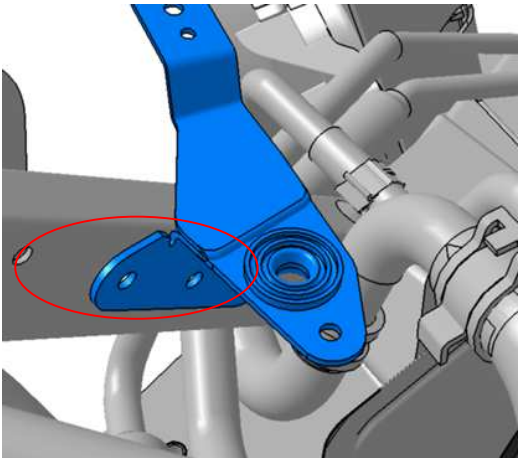
24. Tighten the 3 screws that fasten the new bracket (part no. 470121409 complete with pad 8Z0129669A) to the chassis.



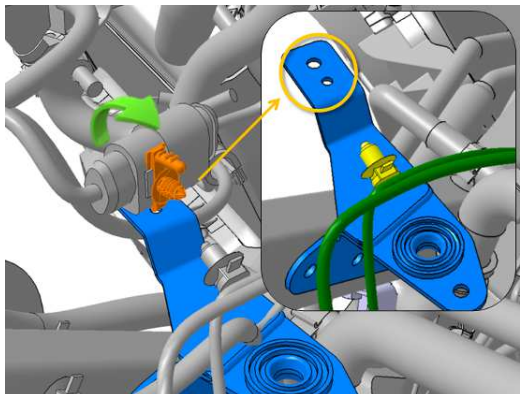
Notes for re-installation

Tighten the screws.

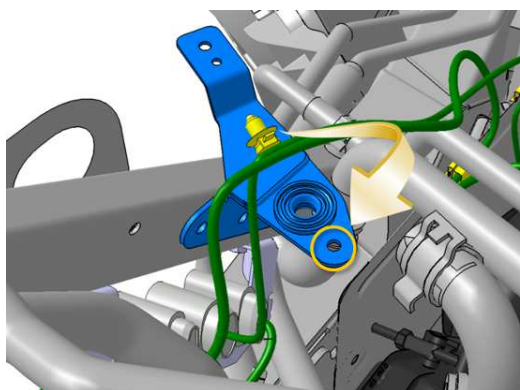
Tightening torque: **10.00Nm (4.43 lb ft) ± 10%**



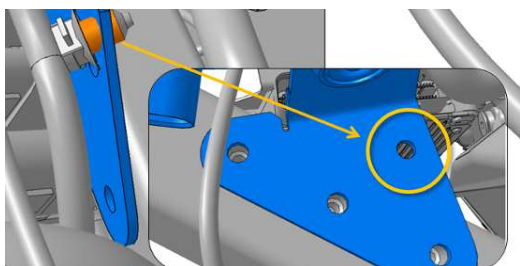
25. Mount the connector on the bracket with a press-to-close clip.



26. Mount the tubing on the bracket with a press-to-close clip (part no. 3W0971838)



27. Mount the tubing on the bracket with a press-to-close clip.



28. Mount the connector.



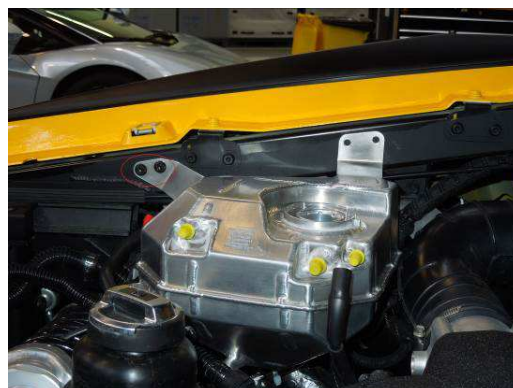
29. Temporarily place the tank on the new bracket (complete with pad) and tighten the two mounting screws for the tank into the holes provided in the chassis.



Notes for re-installation

Tighten the screws.

Tightening torque: 10.00Nm (4.43 lb ft) $\pm$ 10%



Important!

Be especially careful when placing the tank temporarily. Make sure that the next two holes required for mounting the tank can be drilled correctly.



Important!

Check the presence of the following two holes. If the holes are already present, skip at point 34.

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30. Marks the two points for the new holes (see the figure).



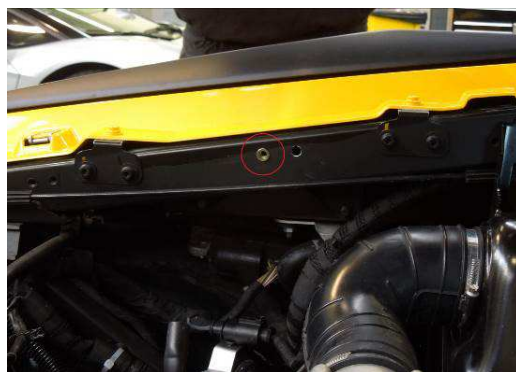
31. Remove the tank from the chassis and from the bracket.



32. Drill two Ø 9 mm holes for the second bracket used to mount the tank on the chassis.



33. Using a riveting tool, insert two M6 bushings (part no. N90859402) into the holes drilled at point 32.

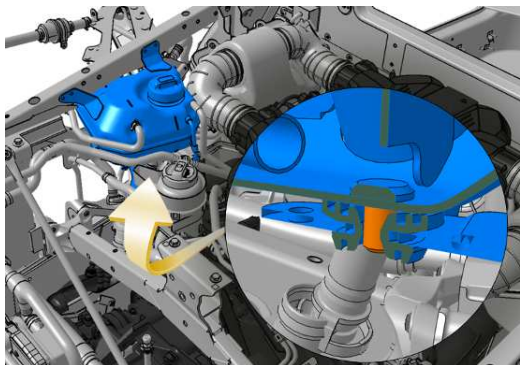


34. Fasten the connector to the bottom of the tank.



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35. After greasing the pad, fasten the tank onto the pad on the bracket.



36. Tighten the two mounting screws for the tank into the holes provided in the chassis.



Notes for re-installation

Tighten the screws.

Tightening torque: **10.00Nm (4.43 lb ft) ± 10%.**

37. Tighten the two mounting screws (part no. N10558102) for the tank in the holes drilled in the chassis.



Notes for re-installation

Tighten the screws.

Tightening torque: **10.00 Nm (4.43 lb ft) ± 10%.**



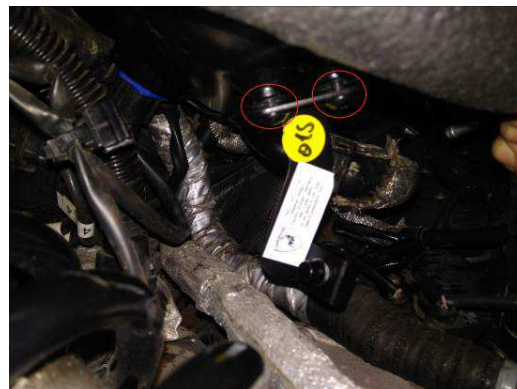
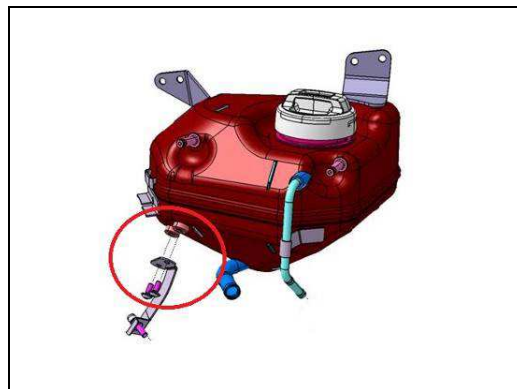
38. Using 2 screws (part no. N90944604), mount the new bracket (part no. 470121125) on the tank.



Notes for re-installation

Tighten the screws

Tightening torque: **10.00Nm (4.43 lb ft) ± 10%**



39. Connect the new bracket mounted at the bottom of the tank to the clamp shown in the figure (part no. N0206473, contained in the kit).



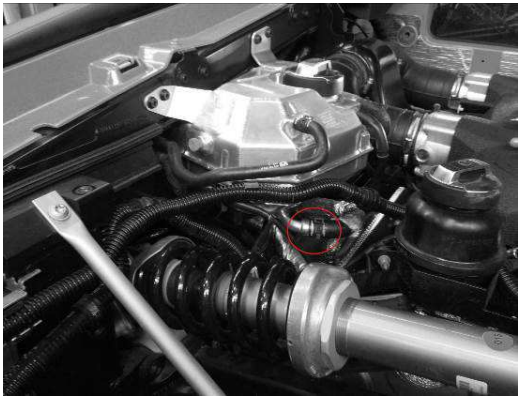
Notes for re-installation

Tighten the nut.

Tightening torque: **8Nm (4.43 lb ft) ± 20%.**



40. Connect the tubing as shown in the picture and tighten the clamp.



41. Cut the overfill tube in order to adapt it to the new tank (before the change of diameter).



42. Connect the overfill tube to the tank.



43. Tighten the clamps supplied with the kit (part no. N90686701).



44. Connect the tube to the tank.



45. Tighten the clamp.



46. Using a band clamp, fasten the tube to the tank.





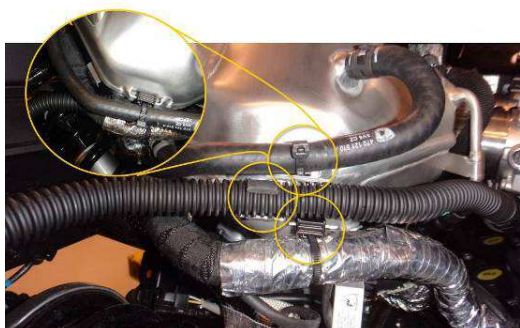
47. Connect the corrugated tube to the tank.



48. Thread the wiring into the clamp shown in the figure and fasten the wiring to the tank.



49. Following an example of the correct installation.



50. Connect the tube and tighten the clamp.



Installation

51. To reinstall the engine compartment rear and left finishing panel, follow the removal procedure in reverse order from point 1 to 5.

Filling the cooling system and adding coolant



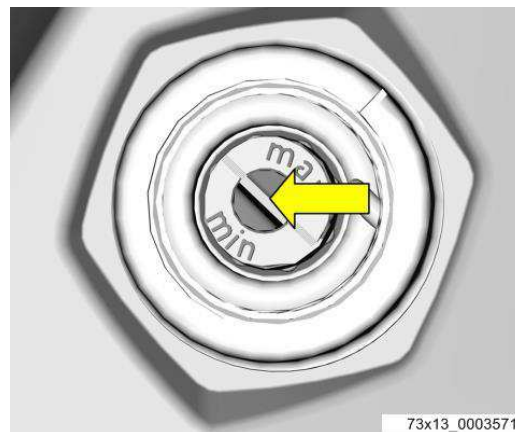
Warning

- The water used to mix the coolant has a strong influence on the performance of the coolant. The quality of the water that must be used is defined by the content of certain substances in the water, which may vary from country to country and even from region to region. Distilled water meets all requirements. For this reason, we recommend using distilled water when mixing coolant used for topping up and for filling the system - even in older models.
- Only the specified types of additives may be used. Other types of additives may diminish the corrosion-fighting properties of the mixture. The resulting damage could lead to coolant leaks, with resulting serious engine damage.
- Coolants with the correct mixture ratio prevent damage due to freezing and corrosion, and also inhibit the formation of scale. The boiling point is also raised. For this reason, the cooling system must contain additives all year round.
- In countries with a hot climate, coolant with a high boiling point protects the engine from possible damage when full performance is consistently demanded.
- The cooling system must be protected against freezing down to -25 °C (-13 °F) in countries where the temperature may fall as low as -36 °C (-33 °F).
- The concentration of coolant must not be reduced by adding water, even in the summer or in countries with a hot climate. The coolant mixture must contain 40% additive.
- If greater protection against freezing is needed in cold climates, the quantity of additive in the mixture can be increased. But only up to 50%. Above this value, cooling performance suffers, and freezing protection is lowered.

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- Do not reuse old coolant.
- Use only water/additive solution to lubricate hoses.
- Use tube clamps equivalent to OEM clamps to fasten all the unions connected to the hoses.
- Coolant mixture ratio .
40% additive and 60% water protect against freezing down to -25 °C (-13 °F).
50 % additive and 50 % water protect against freezing down to -35 °C (-31 °F). Remember to restore the 40/60 ratio as soon as the vehicle no longer needs to withstand temperatures lower than -25 °C (-13 °F) over the short term.

56. Add coolant if necessary.



ATTENTION

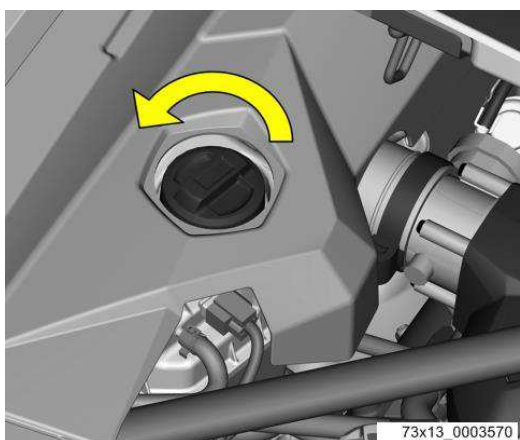
Wait until the vehicle has cooled down completely.



IMPORTANT

If you are filling after draining, make sure there are no protection caps and if so remove them.

52. Remove the cap on the coolant tank.



53. Prepare the special tool for filling the cooling system .

54. Fill the tank (VAS 6096/1) about with 3 Liters (0,79 U.S. gal) of coolant already mixed to the correct ratio.

55. Fill the coolant tank with the use of VAS 6096/1 and the funnel.

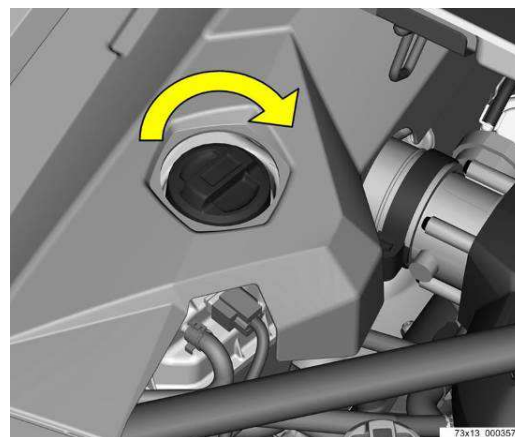


ATTENTION

Wait until the vehicle has cooled down completely.

Make sure the coolant level is correct. The level must be around the MAX line.

57. Tighten the cap on the coolant tank.



WARNING

Bleeding is not necessary for this procedure.

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