



1.2 Connection diagram for coolant hoses

1 - Expansion reservoir

- with cap
- Testing the pressure relief valve in the cap
⇒ [page 133](#)

2 - Radiator for exhaust gas recirculation

- after replacing fill entire system with fresh coolant ⇒ [page 118](#)
- removing and installing ⇒ [page 202](#)

3 - Heat exchanger for heating

- with quick coupling

4 - Cylinder head/cylinder block

5 - Engine oil cooler

- removing and installing
⇒ [page 104](#)

6 - Coolant recirculation pump 2-V178-

- removing and installing
⇒ [page 121](#)

7 - Top coolant hose

- with quick coupling

8 - Radiator

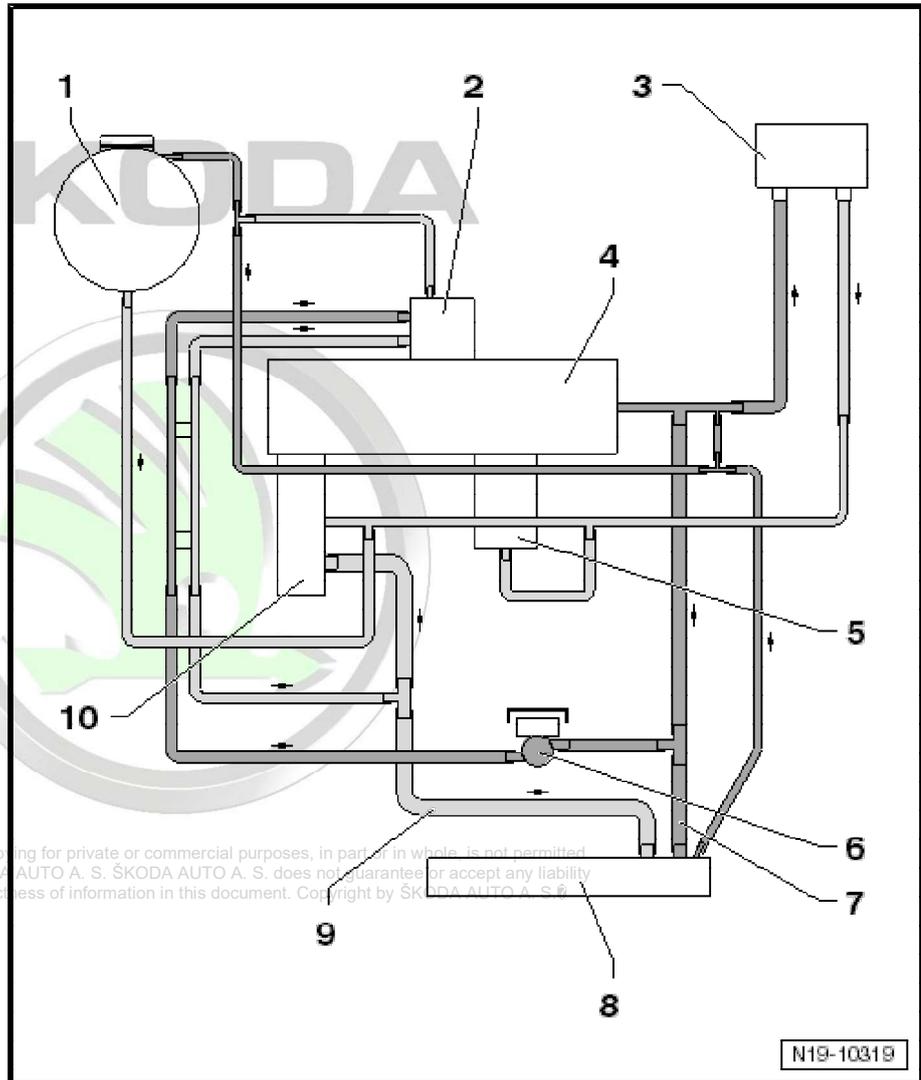
- removing and installing
⇒ [page 130](#)
- after replacing fill entire system with fresh coolant ⇒ [page 118](#)

9 - Bottom coolant hose

- with quick coupling

10 - Coolant pump/coolant regulator

- removing and installing ⇒ [page 124](#)



1.3 Draining and filling up coolant

Special tools and workshop equipment required

- ◆ Catch pan for workshop crane e.g. -VAS 6208-
- ◆ Pliers for spring strap clamps
- ◆ antifreeze tester

Draining



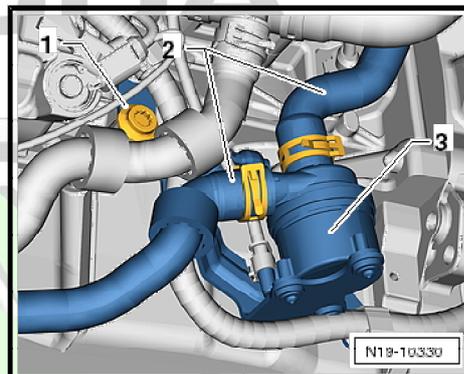
Note

Collect drained coolant in a clean container for proper disposal or reuse.

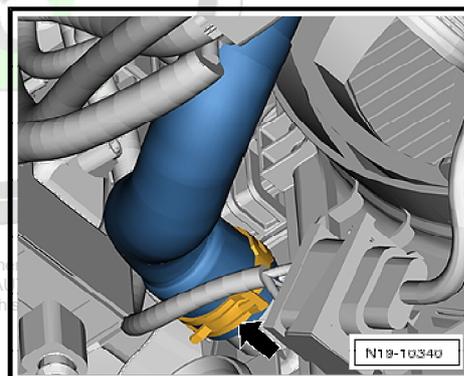
WARNING
Hot steam or hot coolant may escape when the compensation bottle is opened. Cover the cap with a cloth and open carefully.

- Open the cap of the coolant expansion reservoir.
- Remove noise insulation ⇒ Body Work ⇒ Rep. Gr. 50 .
- Place a catch pan under the engine.
- Remove the coolant hoses -2- at the coolant recirculation pump 2 -V178- -3-.
- Remove the left charge air hose.

WARNING
Shut off the opening of the charge air cooler, e.g. with a clean foam piece, so that no coolant can penetrate.



- Remove the coolant hose from the radiator; to do so loosen the retaining clip -arrow-.



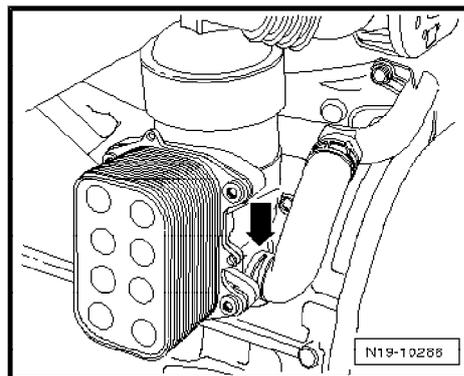
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- Remove the coolant hose on the engine oil cooler -arrow- and drain residual coolant.

Filling up

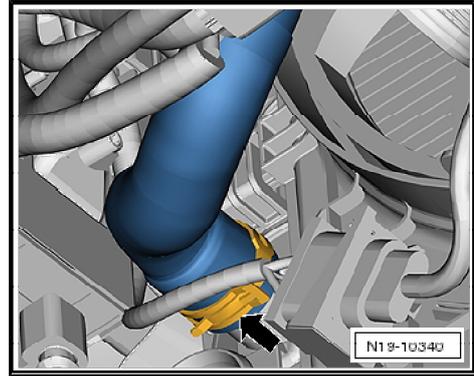
Note

Replace O-rings.

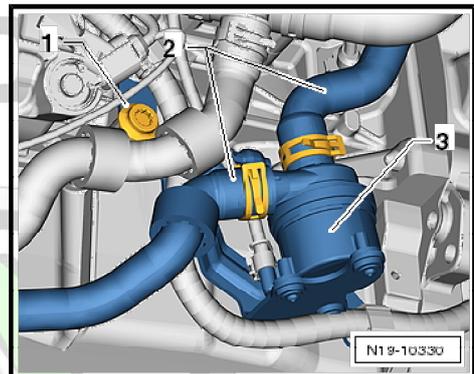




- Connect coolant hose at bottom of radiator -arrow-.
- Install left charge air hose.



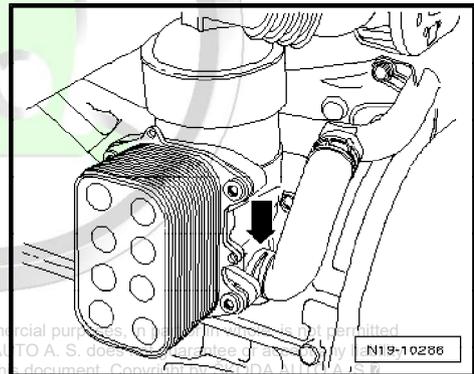
- Connect the coolant hoses -2- at the coolant recirculation pump 2 -V178- .



- Connect the coolant hose on the engine oil cooler -arrow-.

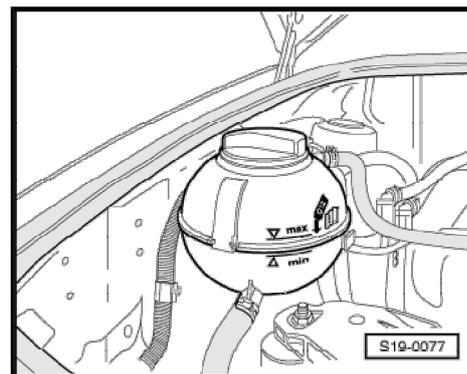
Select the appropriate coolant additive from the Electronic Catalogue of Original Parts Škoda or from the list of allowed coolant additives => Maintenance ; Fabia II .

- In a clean reservoir mix water and coolant additive in the correct mixing ratio => Maintenance ; Fabia II .



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- Top up coolant in the expansion reservoir, until the “max. marking” of the coolant level is reached.
- Switch off the heating, and if present, the air conditioning system.
- Start engine, run for not more than 3 minutes at approx. 2000 rpm and while doing so top up coolant in the expansion reservoir.
- Tighten cap at expansion reservoir.
- Run engine until radiator fan starts.



WARNING

Hot steam may escape when the compensation bottle is opened.

- ◆ *Wear safety goggles and safety clothing, in order to avoid eye injuries and scalding.*
- ◆ *Cover the cap with cloths and open carefully.*

- Check the level of coolant when the expansion reservoir is closed and top up if necessary when the engine is cooled down.
- When engine is at operating temperature the coolant level must be at the “max. marking”, when engine is cold between the “min. marking” and the “max. marking”.

1.4 Remove and install coolant recirculation pump 2 -V178-

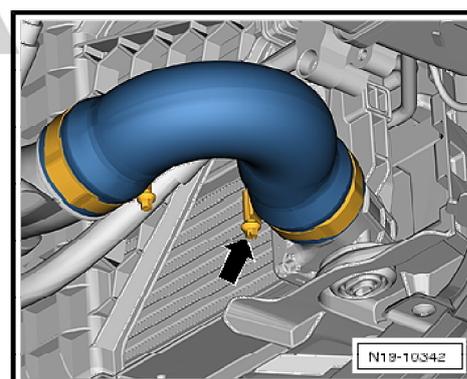
Special tools and workshop equipment required

- ◆ Hose clamps up to 25 mm -MP7-602 (3094)-
- ◆ Pliers for spring strap clamps

Removing

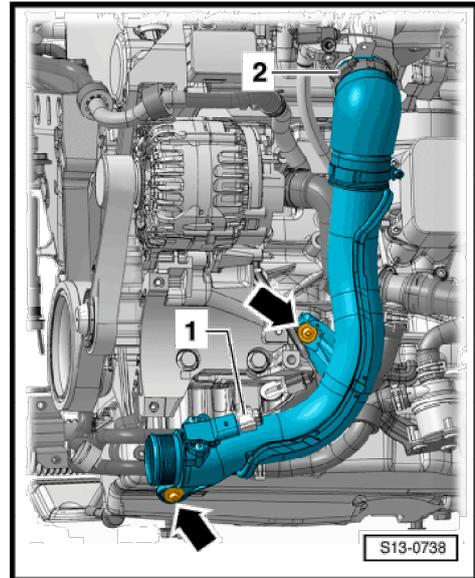
- Remove noise insulation ⇒ Body Work ⇒ Rep. Gr. 50 .
- Remove right charge air hose.

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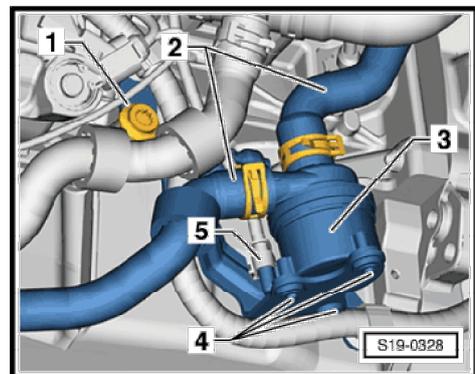
- Release screws -arrows-.
- Disconnect plug -1- at charge pressure sender -G31- with intake air temperature sender -G42- .
- Slacken the hose clamp -2- and push the right charge air pipe to the right.



i Note

In order to collect flowing out coolant, place a cloth below the coolant recirculation pump 2 -V178- -3-.

- Pinch off coolant hoses -2- with hose clamps up to 25 mm -MP7-602- and remove.
- Unplug connector -5-.
- If necessary, loosen the cable guide at the pump holder.
- Release screws -4- and remove coolant recirculation pump 2 -V178- -3-.



Install

Installation is performed in the reverse order, pay attention to the following points:

i Note

- ◆ *Hose connections as well as charge air pipes/hoses must be free of oil and grease before being installed.*
- ◆ *Secure all hose connections with corresponding hose clips.*
- Inspect coolant level, top up with coolant if necessary ⇒ [page 118](#) .

1.5 Replace coolant temperature sender - G62-

Replace

- Engine cold.
- Briefly open the cap for the coolant expansion reservoir in order to remove the remaining pressure in the coolant system.
- Remove air filter ⇒ [page 188](#) .
- Remove noise insulation ⇒ Body Work ⇒ Rep. Gr. 50 .