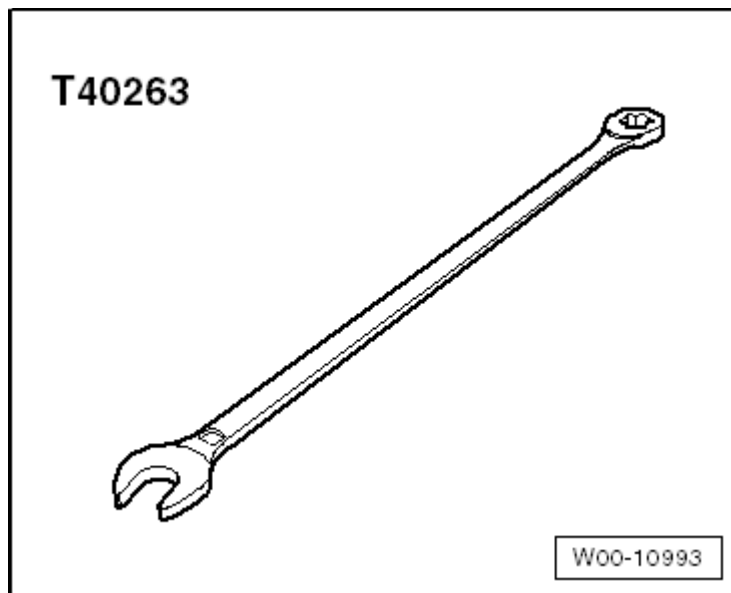


Removing and installing high-pressure pump

Special tools and workshop equipment required

- ◆ Wrench, 21 mm -T40263-



- ◆ Turning-over tool -T40272-

Removing

- Remove engine cover panel → [Chapter](#).



WARNING

Danger of fire and damage if the engine cover panel is not fitted.

- ◆ ***The engine cover panel must always be fitted before the bonnet is closed.***
- ◆ ***If the engine cover panel is not fitted, it is not permissible to start or drive the vehicle with the bonnet closed.***

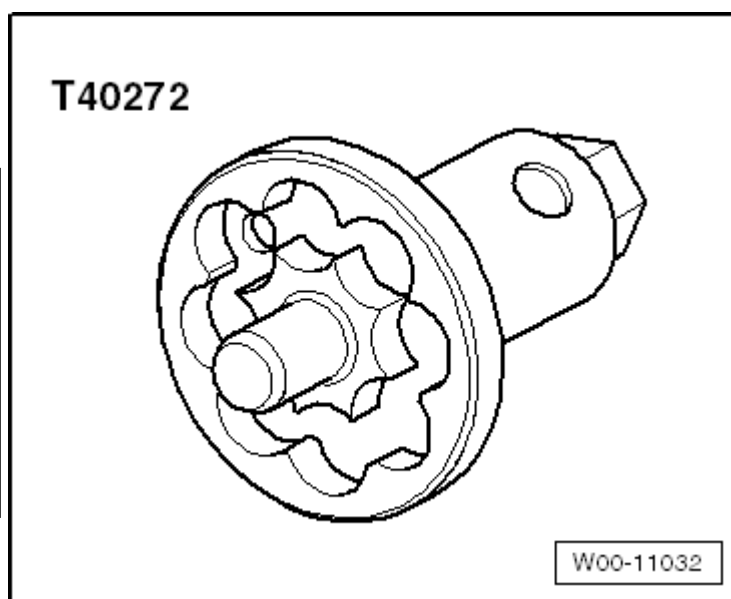


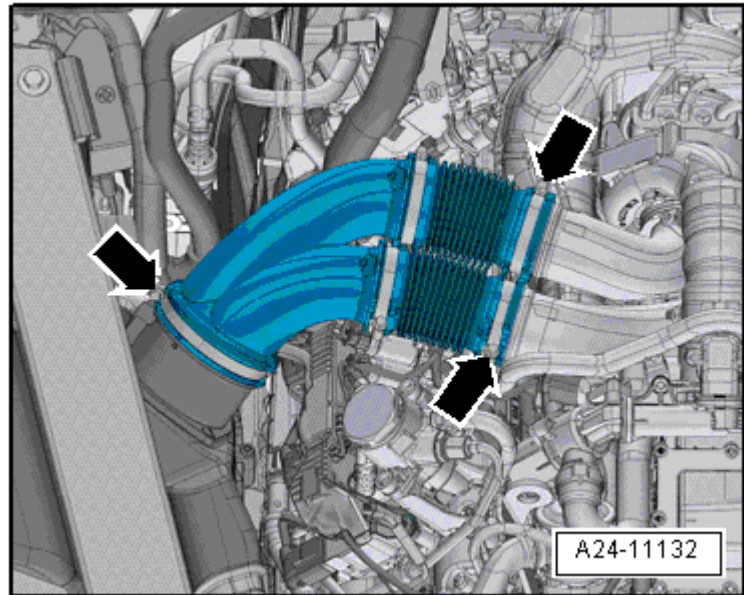
Note

Do not hold onto or pull on plunger of high-pressure pumps.

Cylinder bank 1 (right-side), vehicles with engine codes CEUA/CTGA:

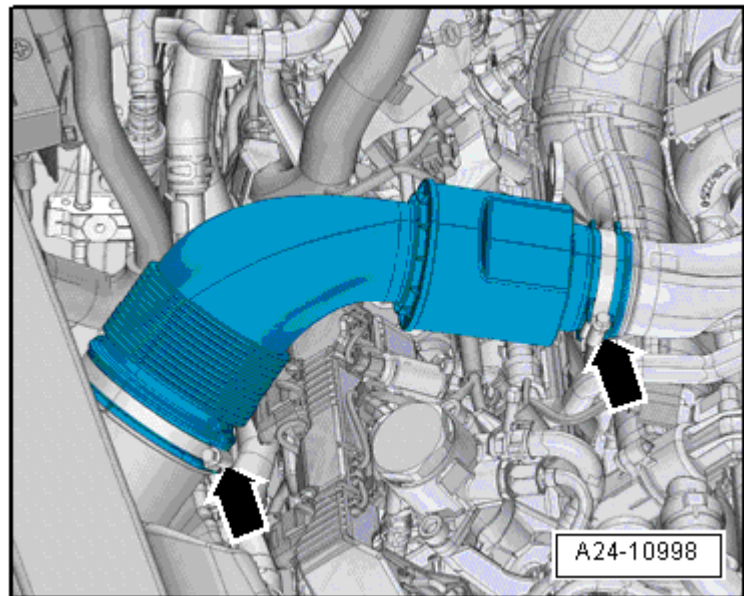
- Release hose clips -arrows- and remove air pipe.





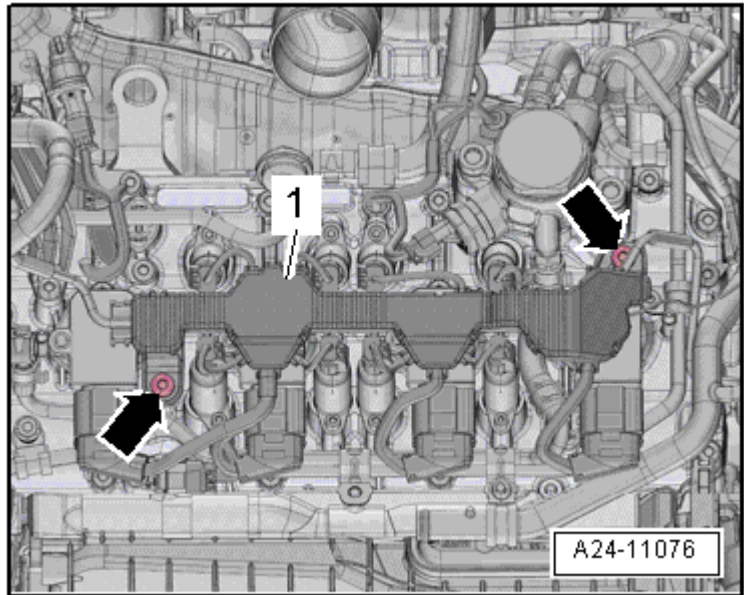
Cylinder bank 1 (right-side), vehicles with engine codes CGTA/CTFA:

- Release hose clips -arrows- and remove air pipe (right-side).



Cylinder bank 1 (right-side), all engines:

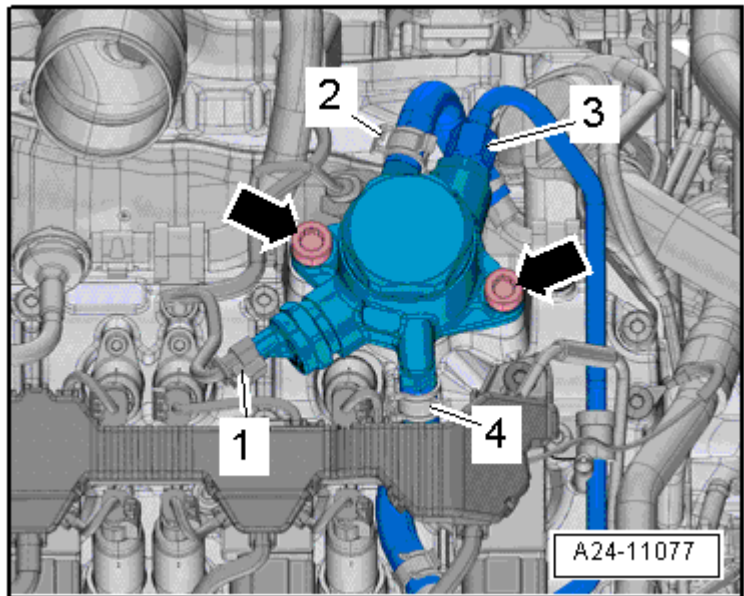
- Remove bolts -arrows- and push wiring guide -1- slightly to right side.



- Unplug electrical connector -1-.
- Release hose clips -2 and 4- and detach fuel hoses.

! WARNING
The fuel system is pressurised.
Risk of injury as fuel may spray out.

- **Wear safety goggles.**
- **Wear protective gloves.**
- **Release pressure (wrap clean cloth around connection and open connection carefully).**



- Wrap clean cloth around connection, remove union nuts -3- and press high-pressure pipe to one side.
- Remove bolts -arrows-.

Cylinder bank 2 (left-side):

- Unplug electrical connectors -3-.
- Release hose clip -4- and detach fuel hose.

! WARNING
The fuel system is pressurised.
Risk of injury as fuel may spray out.

- **Wear safety goggles.**

- **Wear protective gloves.**
- **Release pressure (wrap clean cloth around connection and open connection carefully).**

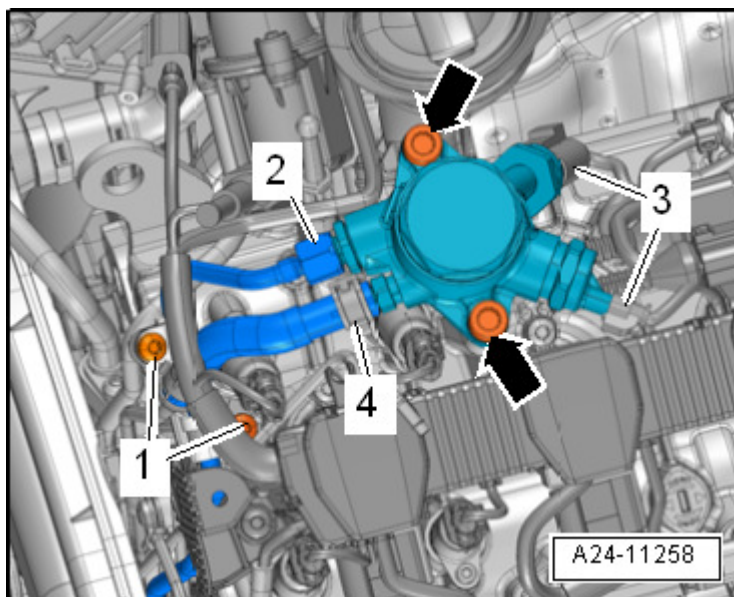
- Wrap clean cloth around connection, remove union nuts -2- and press high-pressure pipe to one side.
- Remove bolts -1- and -arrows-.

Both sides (continued):

- Carefully pull out high-pressure pump. It is possible that the roller tappet may remain lodged inside.

Note

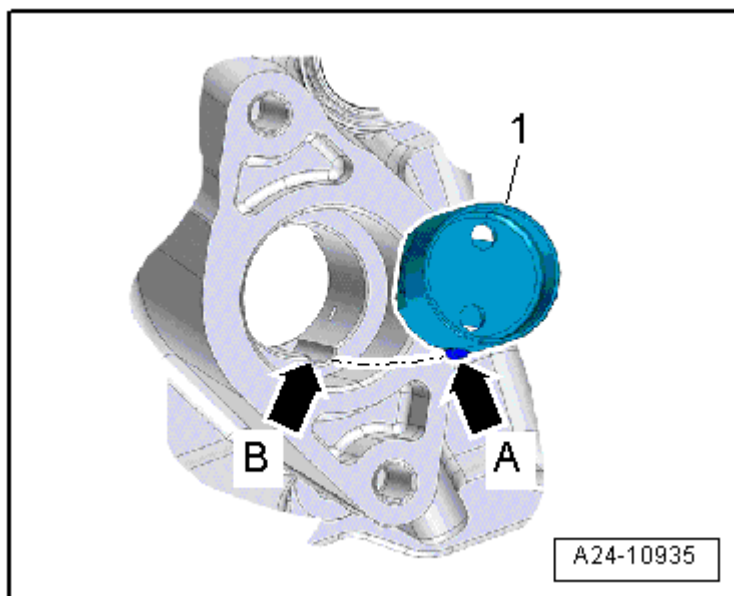
Do not attempt to bend high-pressure pipe to a different shape.



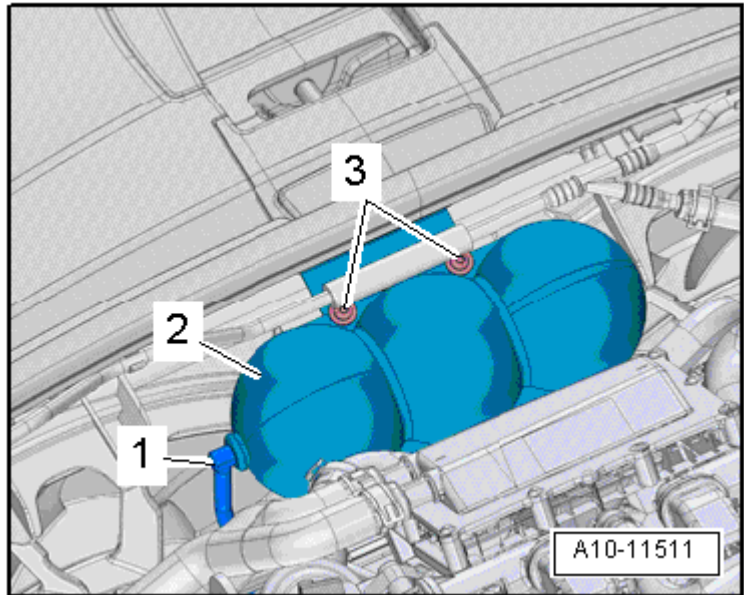
Installing

Note

- ◆ Do not hold onto or pull on plunger of high-pressure pump.
- ◆ Fit new O-ring.
- ◆ Secure all hose connections with the correct type of hose clips (same as original equipment) → [Electronic parts catalogue](#).
- ◆ The connections of the high-pressure pipe must not be damaged.
- ◆ Do not attempt to bend high-pressure pipe to a different shape.
- Check roller tappet -1- for damage and renew if necessary.
- Lightly lubricate roller tappet with oil and insert it so that lug -arrow A- slides into guide notch -arrow B-.



- Disconnect vacuum hose -1-.
- Unscrew bolts -3- and remove vacuum reservoir -2-.



- Fit turning-over tool -T40272- onto wrench (21 mm) -T40263-.
- Position adapter on bolts of vibration damper.
- Semi-circular recess -arrow A- on turning over tool -T40272- must point to semi-circular recess -arrow B- on vibration damper.



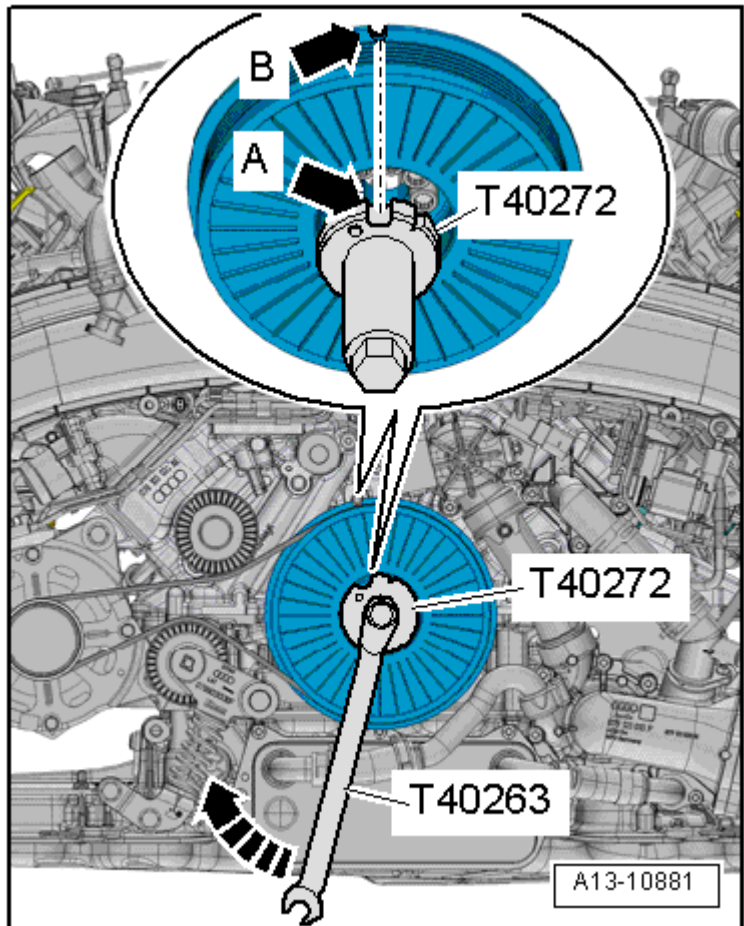
Note

Disregard notch on turning-over tool -T40272-.

- Rotate crankshaft in direction of normal engine rotation -arrow- using wrench (21 mm) -T40263- and turning over tool -T40272-, and at the same time press roller tappet into cylinder head until it reaches lowest point.

Remaining installation steps are carried out in reverse sequence; note the following:

- Install high-pressure pipe → [Chapter](#).
- Install air ducts with screw-type clips → [Chapter](#).
- Check fuel system for leaks → [Chapter](#).



WARNING

Danger of fire and damage if the engine cover panel is not fitted.

- ◆ ***The engine cover panel must always be fitted before the bonnet is closed.***
- ◆ ***If the engine cover panel is not fitted, it is not permissible to start or drive the vehicle with the bonnet closed.***

Tightening torques

- ◆ → Chapter „Exploded view - high-pressure pump“