

General

Applies to type 1 retarder.

Tools

Examples of suitable tools from Scania:

Number	Designation
99 301	Quick release coupling
587 129	Complete unit for coolant

Work description

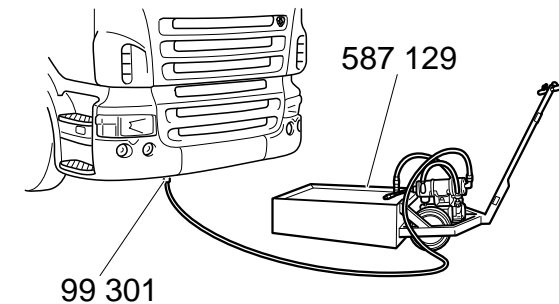
Draining



WARNING!

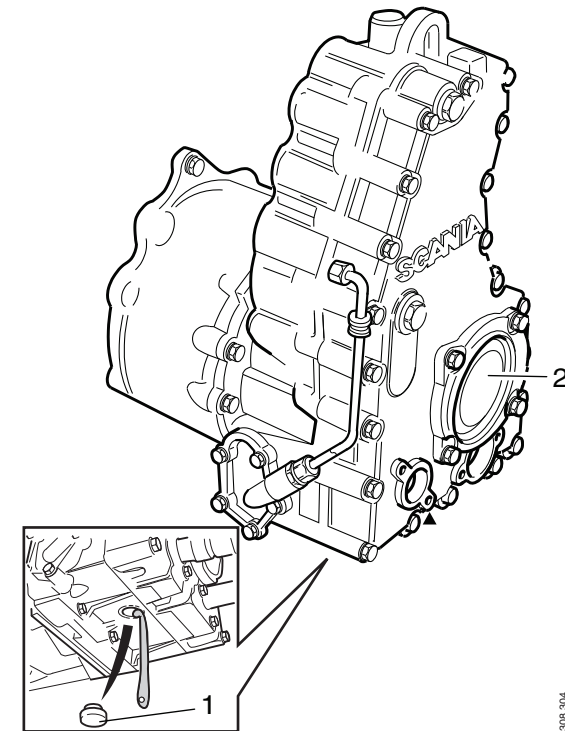
- Beware of hot oil after driving. Wear protective gloves and goggles.
- Make sure the compressed air tanks are empty before starting work. Oil under pressure or blows from loose parts can cause personal injury.

1. Drain the coolant by connecting quick release coupling 99 301 to the bottom of the radiator. Remove the radiator cap to make the coolant drain faster.
2. Put the retarder lever in position 5 and switch on the ignition. This empties out most of the oil volume from the accumulator so that all the oil ends up in the retarder sump.
3. Detach the drain plug (1) under the planetary gear section and drain the oil.



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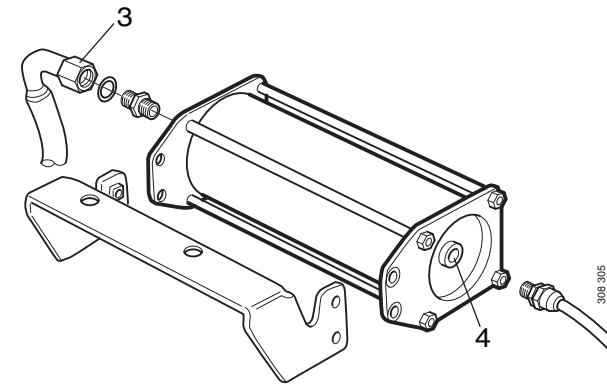
4. Disconnect the hoses from the retarder.
5. Remove the oil filter (2).



1. Drain plug
2. Oil filter

308 304

6. Detach the hose (3) from the oil accumulator.
7. Blow out any remaining oil using compressed air at the connection (4).

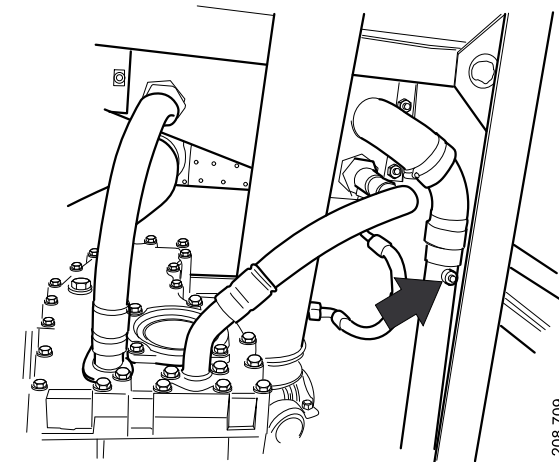


3. Hose

4. Connection

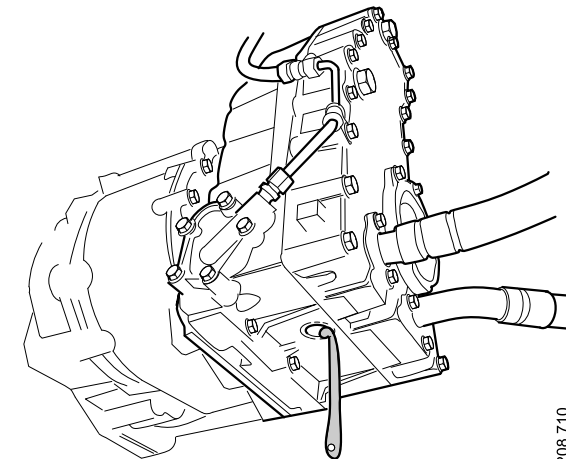
Removing

1. Remove both drain plugs from the coolant pipes leading to the retarder oil cooler and drain the coolant.



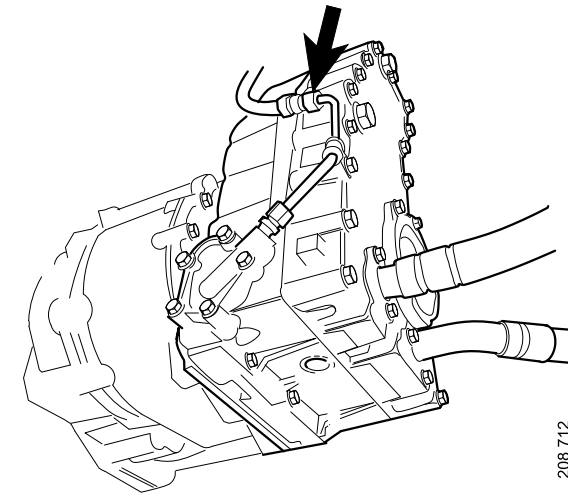
Plug the coolant pipe.

2. Drain the gearbox fluid. The plug is located under the planetary gear unit.
3. Drain the oil accumulator according to the inspection instructions.
4. Drain the oil from the retarder.
5. Remove the coolant hoses.



Oil plug

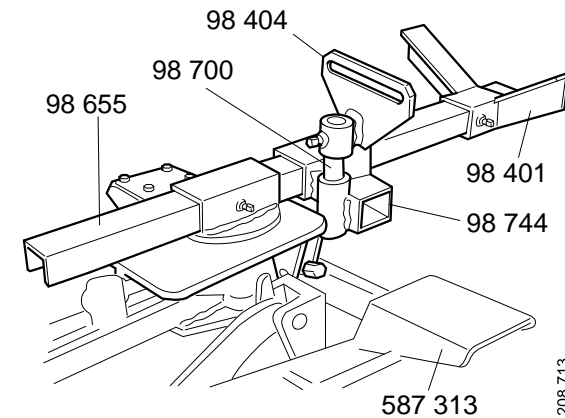
6. Remove the air hose between the proportional valve and the retarder on the retarder side.



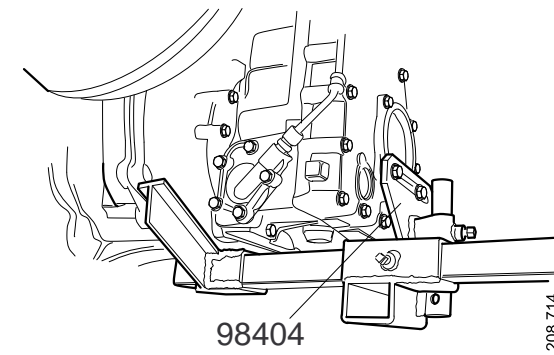
Air hose

7. Fit the following fixtures to gearbox jack 587 313.

- Fixture beam from kit 98 655.
- V block 98 401.
- Angular retainer 98 744.
- Short fixture shaft 98 700.
- Fixture for end yoke bracket 98 404.

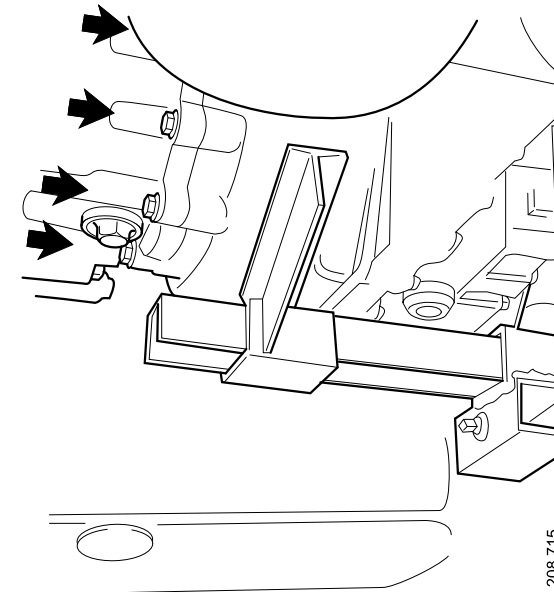


- Place the jack under the retarder with the V block resting against the retarder housing. Attach fixture 98 404 with 2 M8 x 40 in the 2 lower screw holes to the retarder oil filter cover. Do not remove the cover.



Jack

- Remove the 9 flange screws securing the retarder to the gearbox and then pull the retarder off the gearbox.



Flange screws