

Expendable materials

Cons. No.	Designation	Part Number
3	Sealing compound: Loctite 573	001 989 45 20

Tightening torques

Designation	Thread strength	Nm
Engine mounting, front to frame	M 14 – 10.9	140 ± 20
Engine mounting, rear to frame	M 14 – 10.9	140 ± 20
Hydraulic pump to engine support	M 16 – 8.8	200

X14 Removal and installation**01G21 Preceding jobs**

01/3 – Drain coolant.

01/1367 – Tilt cab.

01H243 **Note:** The removal of the engine is carried out in the same way with all engine models.

01/2 **1** Disconnect battery.

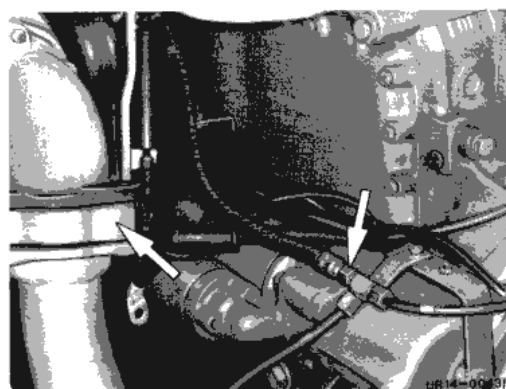
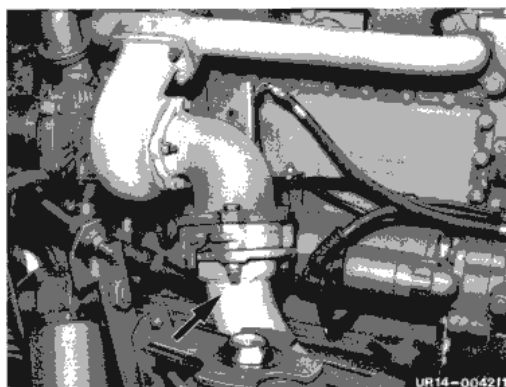
01/1368 **2** Mark electrical, pneumatic and hydraulic lines and remove. If necessary remove mounts, cable binders etc.

07/141 **3** Disconnect fuel lines.

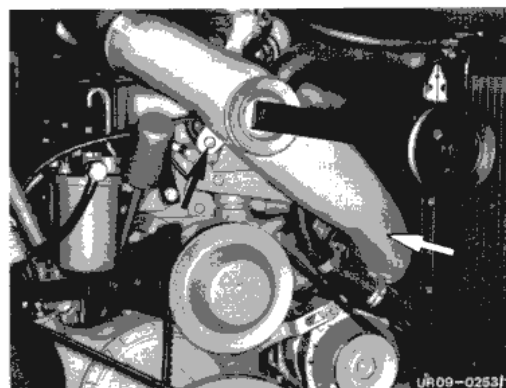
01/3 **4** Drain coolant.

01/4 **5** Remove V-belt for intermediate fan shaft.

01/516 **6** Remove exhaust brake.



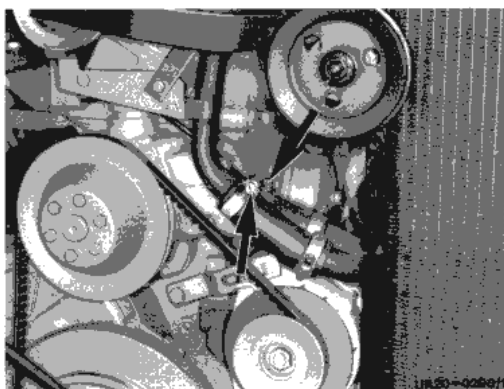
01/517 **7** Remove intake pipe.



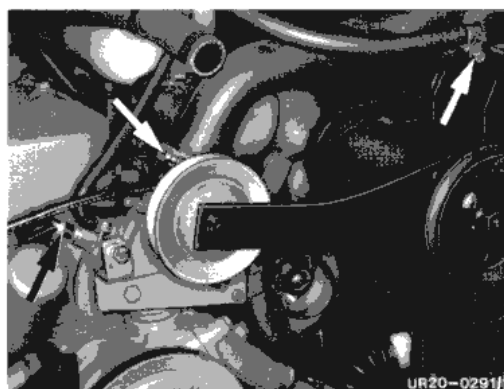
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- 01/14 **8** Detach coolant pipe at coolant pump and reservoir.

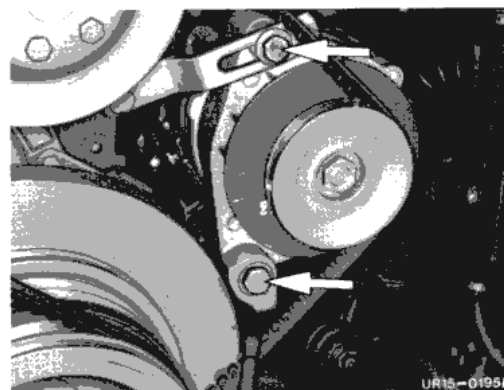


- 01/518 **9** Detach cable to coolant temperature pickup. Detach coolant hose at thermostat body and coolant venting hose at radiator.

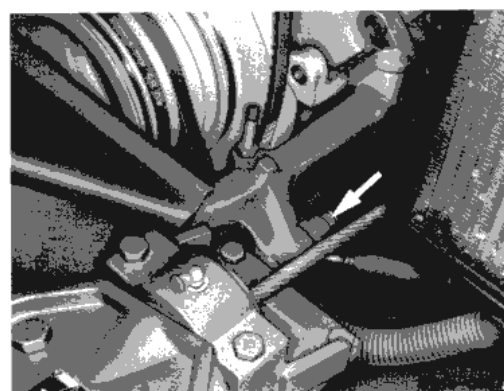


- 01/061 **10** Detach generator.

01H109 **Note:** Do **not** disconnect cable.



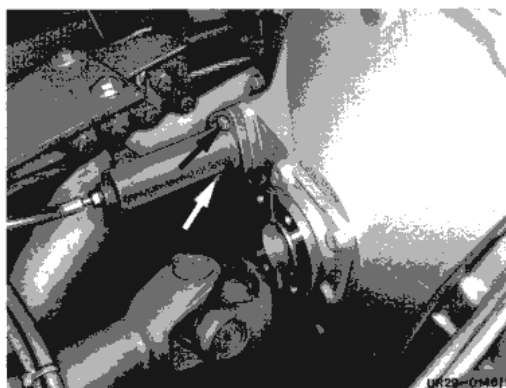
- 01/016 **11** Detach hydraulic pump and bracket from engine support. Do **not** remove lines.



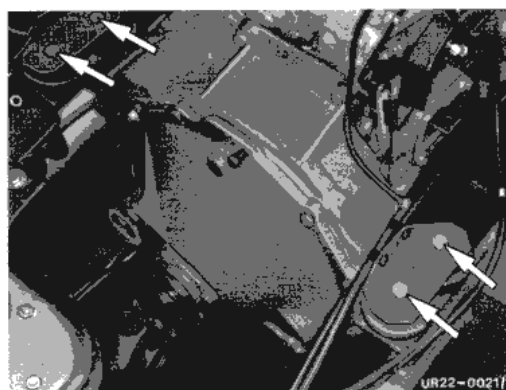
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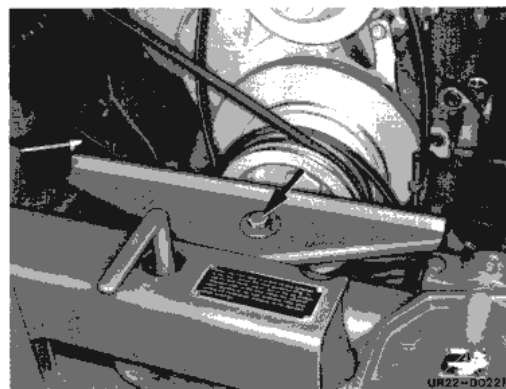
- 01/18 **12** Remove clutch slave cylinder. Do not detach line.



- 01/20 **13** Remove fastening bolts of rear engine mounts.



- 01/21 **14** Remove fastening bolt at front engine mount. Detach cover.



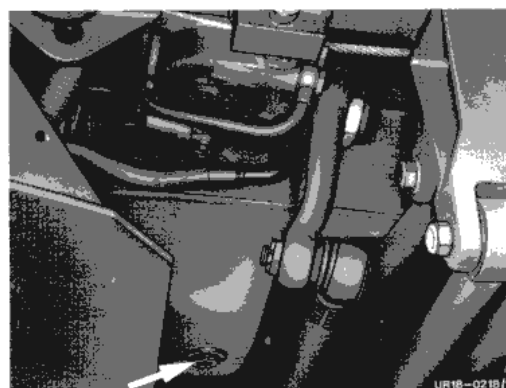
- 01/23 **15** Drain engine oil as required.

- 01/24 **16** Lift engine out.

- 01/25 **17** Clean all parts, check, exchange as required.

- 01/616 **18** The installation takes place in the same manner in reverse order. At the same time the following must be observed:

- 01/1383 – Observe permissible tightening torques.
- 01/1384 – Check engine oil level, correct if necessary.
- 07/494 – Check level of coolant, correct.



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01H244 **Note:** Before starting, the engine must be turned with the starter until the oil pressure indicator indicates pressure. At the same time the stop cable must be on "Shut-off" so that the engine does not start up. The starter is to be actuated for a maximum of 20 seconds, otherwise it is excessively heated which can lead to damage. If no oil pressure is indicated after the first starting attempt, repeat the starting procedure after waiting approx. one minute each time. With vehicles with "key shut-off": start the engine and let it run at idle speed. Observe oil pressure indicator. After approx. 10 seconds the pressure must be indicated.

01/1385 – Check engine for leaks after startup.