

ENGINE COOLING SYSTEM: CHECK



Note, one or more warnings are present in this procedure



Special tooling required

Instrument for testing the cooling circuit and the expansion bottle valve. Contains caps 554-01, 554-04, 554-06

Ms. 554-07

Fault finding and filling - bleeding the cooling circuit.

Mot. 1700



WARNING

Before carrying out any operation on a vehicle fitted with the Stop & Start system, always follow the safety instructions Vehicle: Precautions for the repair .



WARNING

When working in the engine compartment, take care as the radiator fan(s) may start up unexpectedly (risk of being cut).

■ To avoid any risk of serious burns when the engine is hot:

- do not open the expansion bottle cap,
- do not drain the cooling system,
- do not open the bleed screw(s).

Note:



■ There are two procedures for checking the cooling system:

- the procedure using the Fault finding and filling - bleeding the cooling circuit. (Mot. 1700) ,
- the procedure using the Instrument for testing the cooling circuit and the expansion bottle valve. Contains caps 554-01, 554-04, 554-06 (Ms. 554-07) .

EXPANSION BOTTLE CAP VALVE RATING:

Expansion bottle cap with ...**Valve rating**

... a brown circle

1.2 bar

... a yellow marking

1.4 bar

... a white marking

1.6 bar

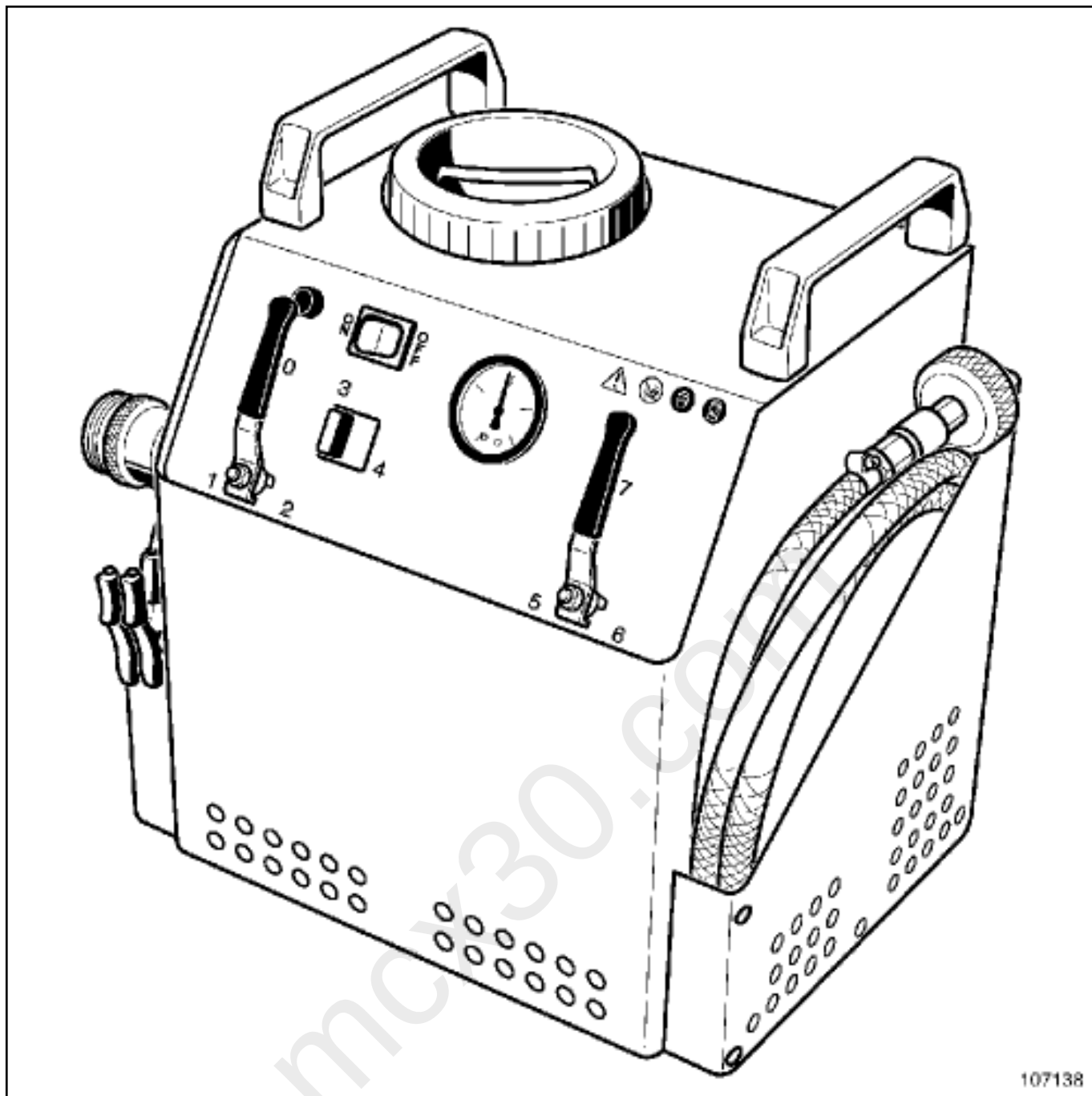
... a grey marking

1.8 bar

1. CHECKING THE COOLING SYSTEM USING THE TOOL (MOT. 1700)**CAUTION**

If the coolant is leaking from the expansion bottle cap, replace the valve.

1- CHECKING THE EXPANSION BOTTLE CAP VALVE



■ Use the cooling system filling and diagnostic tool Fault finding and filling - bleeding the cooling circuit. (Mot. 1700) . Consult the user's manual for this tool ([see 19A, Cooling, Cooling system filling and diagnostic tool: Use](#)) (Technical Note 3857A, 19A, Cooling).

2- CHECKING THE SEALING OF THE COOLING CIRCUIT

■ Use the cooling system filling and diagnostic tool Fault finding and filling - bleeding the cooling circuit. (Mot. 1700) . Consult the user's manual for this tool ([see 19A, Cooling, Cooling system filling and diagnostic tool: Use](#)) (Technical Note 3857A, 19A, Cooling).

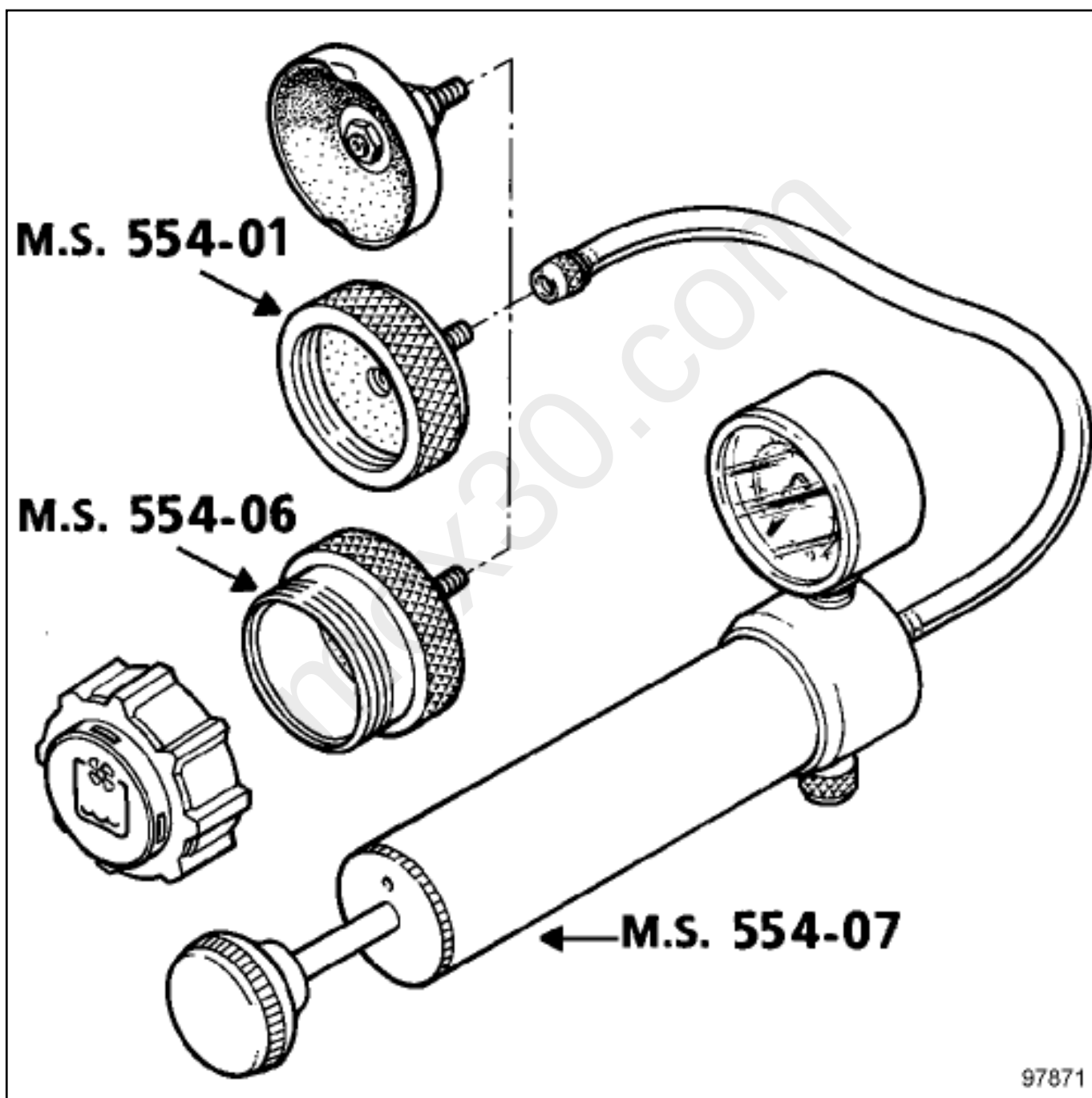
2. CHECKING THE COOLING SYSTEM USING THE TOOL (MS. 554-07)



CAUTION

If the coolant is leaking from the expansion bottle cap, replace the valve.

1- CHECKING THE EXPANSION BOTTLE CAP VALVE



■ Fit onto the testerInstrument for testing the cooling circuit and the expansion bottle valve. Contains caps 554-01, 554-04, 554-06(Ms. 554-07) , the adapter (Ms. 554-06).

- Fit the expansion bottle cap to the adapter (Ms. 554-06).



Note:

The pressure should not drop; if it does, look for the leak.

- Pump with theInstrument for testing the cooling circuit and the expansion bottle valve. Contains caps 554-01, 554-04, 554-06(Ms. 554-07) , the pressure should stabilise at the expansion bottle cap valve rating with a test tolerance of ± 0.1 bar.

2- CHECKING THE SEALING OF THE COOLING CIRCUIT

- Replace the expansion bottle cap with the adapter (Ms. 554-01).
- Connect on the adapter (Ms. 554-01)the toolInstrument for testing the cooling circuit and the expansion bottle valve. Contains caps 554-01, 554-04, 554-06(Ms. 554-07) .
- Pump with theInstrument for testing the cooling circuit and the expansion bottle valve. Contains caps 554-01, 554-04, 554-06(Ms. 554-07) to put the cooling circuit under pressure.
- Stop pumping at 0.1 barbelow the valve rating for the expansion bottle cap valve.



Note:

The pressure should not drop; if it does, look for the leak.

- Gradually unscrew the union of theInstrument for testing the cooling circuit and the expansion bottle valve. Contains caps 554-01, 554-04, 554-06(Ms. 554-07) to decompress the cooling system then remove the adapter (Ms. 554-01)and refit the expansion bottle cap.



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