

BOMAG

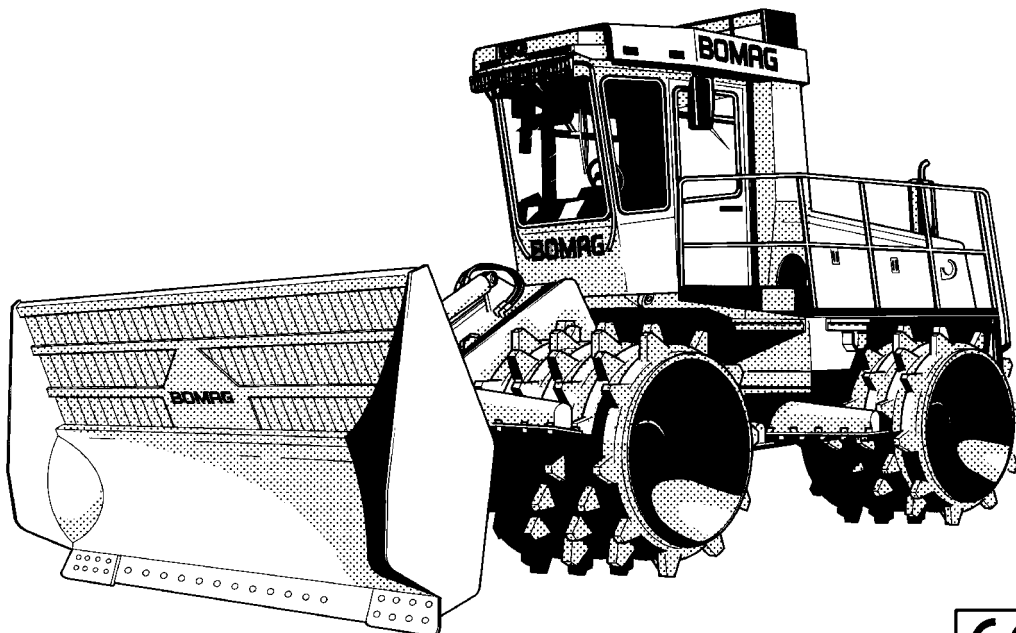
Operating instructions Maintenance instructions

*This manual is
in accordance with
product liability laws
and safety regulations*

BC 670 RB

S/N 101 570 40 >
S/N 101 570 41 >

Cummins LTA 10-C352
Cummins MTA11-C350



Refuse Compactor

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1 Technical Data

Working on the dozer blade

Lower the dozer blade to the ground and shut the engine down.

Do not open the grease cartridge on the dozer blade, after use it will still be pressurized for some time. In case of damage caustic fluid may run out. Wash off immediately with lots of clean water.

Cleaning

Do not clean the machine while the engine is running.

Do not use gasoline or other combustible substances for cleaning purposes.

When using high pressure steam cleaning equipment do not subject electric components to the direct water jet or cover them before hand.

Do not guide the cleaning jet into the exhaust pipe.

After maintenance work

Reinstall all protective devices after completing the maintenance work.

Repair

Attach a warning tag to the steering wheel if the machine is defective.

In case of welding work on the machine remove the main battery switch.

Repairs must only be carried out by qualified and authorized persons. Use our repair instructions.

Test

Depending on the type of application and the operating conditions vibratory equipment has to be examined by a specialist whenever required, but at least once every year.

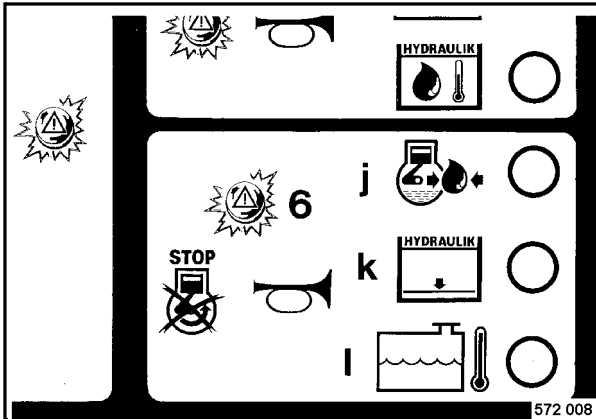


Fig. 8

If one of the control lights j, k and l lights up, the general warning light no. 6 will also light, the warning buzzer will sound and the engine will be automatically shut down after 20 seconds.

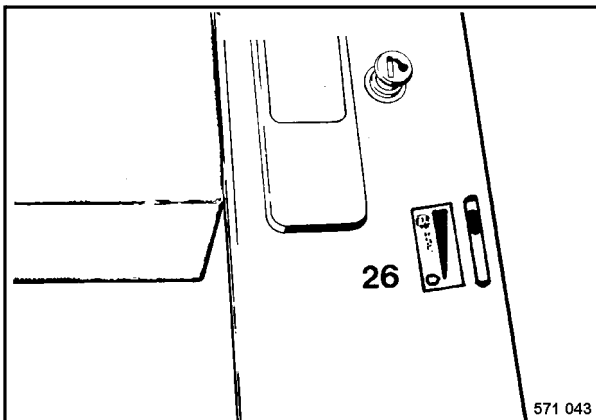


Fig. 9

No. 26 = Lever for fresh air opening

- if the windows are steamed up and the heating is switched on keep the lever in "front" position until the windows are clear. Then shift the lever "back", to close the fresh air supply.

No. 27 = not used

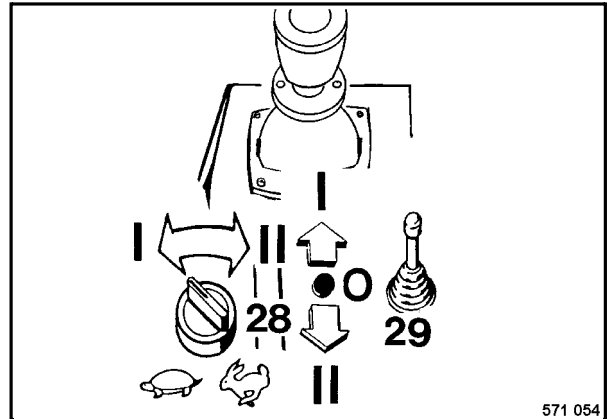


Fig. 10

No. 28 = Rotary switch I. and II. travel speed range

- Position "I" = 1. range, working speed, the control light (9) lights up.
- Position "II" = 2. range, transport speed range, the control light (10) lights up, e.g. to drive to and from the place of use and for light work.

No. 29 = Travel lever (forward/reverse)

- Position "0" = to start the engine, the control light (11) lights up
- Position "I" = forward travel, the control light goes out.
- Position "II" = reverse travel, at the same time the reversing warning horn will sound and the control light will go out.

⚠ Danger

Danger of accident!

Before setting off in reverse direction make sure that the travel area behind the machine is safe to drive.

i Note

When the travel lever is set to "0"-position (neutral position) the machine is braked automatically.

i Note

The cold start system is electronically released at low temperatures.

When actuating this push button, an exactly dosed quantity of liquid starting aid is injected during the starting process.

! Caution

Do not drive with full engine speed before the operating temperature is reached.

At extremely low temperatures the hydraulic oil filter control light in the monitoring board may light up, but must go out again after approx. 15 minutes.

When this control light lights up, drive the machine with half power until it goes out.

Starting with jump leads

! Caution

For jump starting two external batteries are required, one for each main battery.

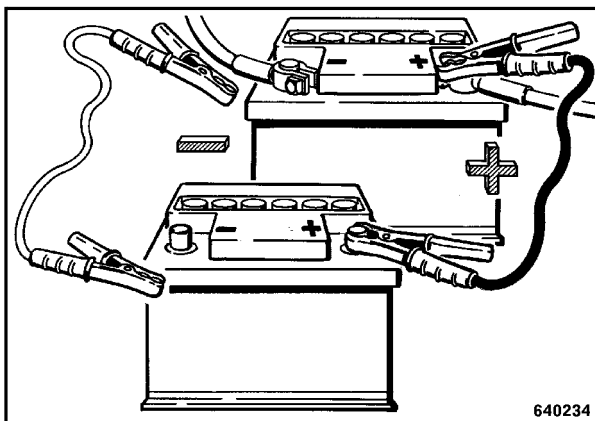


Fig. 7

- When starting with external batteries connect the plus poles (Fig. 7) and the minus poles (earth cable) after.

! Caution

Wrong connection will cause severe damage to the electrical system.

- Set the control levers 31 and 29 (Fig. 1) to position "0".
- Check, whether the emergency stop switch 24 (Fig. 2) is unlocked.
- Turn the ignition switch to position 'II'. The engine will start.
- After starting disconnect the minus poles (earth cable) first and the plus poles last.

- Operate the pump lever (1) until the multi disc brakes are released. The machine can now be towed.

! Caution

Secure the lever (2) with the locking screw. Lift the dozer blade off the ground before towing.

Lifting the dozer blade and releasing the brake

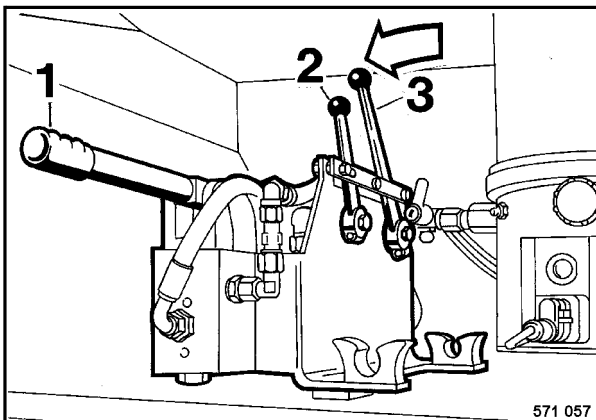


Fig. 5

! Danger

Danger of accident

When releasing the multi disc brakes secure the machine against unintended rolling.

Do not step under the lifted dozer blade.

- Move the lever (2) in direction of arrow.
- Move the lever (3) in direction of arrow.
- Operate the pump lever (1) until the multi disc brakes are released and the dozer blade is lifted off the ground. The machine can now be towed.

4.13 Transport of machine

! Danger

Danger of accident

Use only strong and stable loading ramps. Make sure that no persons are endangered if the machine should turn over or slip off.

Always use shackles on the lifting points to load or lash down the machine.

Use only suitable lifting gear to lift the machine.

Weights: see technical data

Lash the machine down so that it is properly secured against rolling off, slipping and turning over.

After the transport release the articulation lock and fix it in the receptacle.

Unlock the emergency stop switch.

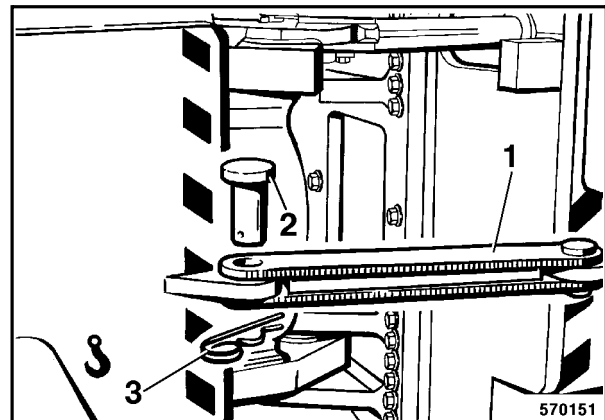


Fig. 1

! Danger

Danger to life

Do not stand in the travel range of the machine during a demonstration or during loading.

- Lower the dozer blade to the transport vehicle.
- After driving the machine on the transport vehicle swing the articulation lock 1 (Fig. 1) out of its receptacle to the front and fasten it with the pin (2) to the eye on the front frame. Secure the pin with a safety cotter pin (3).

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5.4 Running-in instructions

When taking new machines into operation the following maintenance work must be performed.

 **Caution**

Up to approx. 250 operating hours check the engine oil level twice every day.

Depending on the engine load the oil consumption will drop to its normal level after approx. 100 to 250 operating hours.

After a running time of 15 minutes retighten the V-belts for generator and compressor.

Maintenance after 50 operating hours

- Change the oil in the splitter gear.
- Change the oil in the L + S planetary gears.
- Retighten all screw connections on the machine.

Maintenance after 500 operating hours

- Change the oil in the splitter gear.
- Change the oil in the L + S planetary gears.

Special intervals

- Run the heating every month for about 10 minutes.
- Run the air conditioning every month for about 10 minutes.

After the installation of new or service exchange gearboxes the specified service intervals must be started again from the beginning.

5.15 Checking the concentration of anti-freeze agent and the coolant additive

⚠ Caution

The inspection of the coolant is of utmost importance to avoid damage to the engine, e.g. corrosion, cavitation and freezing.

⚠ Danger

Danger of scalding!

Check the anti-freeze concentration only when the engine is cold.

- Perform this test with the testing kit (BOMAG part-no. 317 026 02).

Nominal value:

Concentration of anti-freeze agent 40 Vol% to 60 Vol%.

DCA4 - content 0,4 to 0,5 units per litre

Analysis of measurement:

If the DCA4-value is higher than 0,8 units per litre coolant, do not change the coolant until the specified value is reached again.

If the DCA4-value is lower than 0,3 units per litre coolant top up the required quantity of liquid DCA4 additive and change the water filter.

i Note

See chapter 5.2 table of fuels and lubricants and the operating instructions for the testing kit.

5.16 Changing the coolant filter

⚠ Caution

If the DCA4-value is higher than 0,8 units per litre coolant, do not change the coolant until the specified value (0,4 to 0,5 units per litre) is reached again.

⚠ Danger

Danger of scalding!

Change the coolant only when the engine is cold.

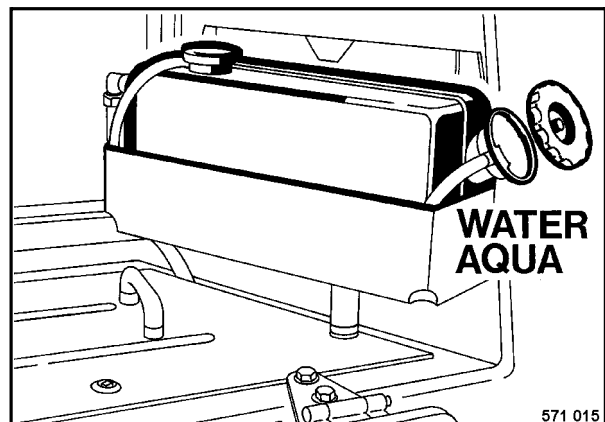


Fig. 7

- Unscrew the cover from the compensation tank (Fig. 7).

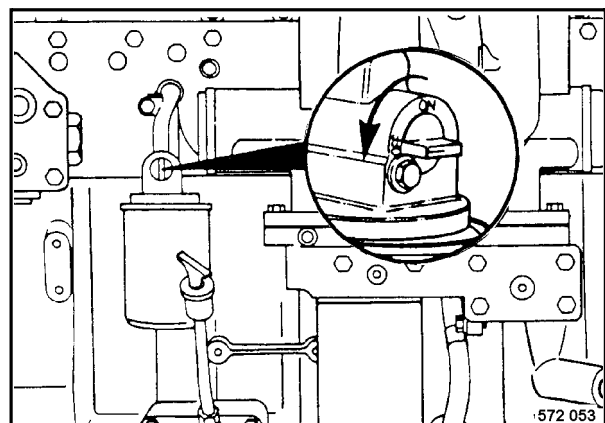


Fig. 8

- Turn the coolant shut-off valve (Fig. 8) counter-clockwise to position "OFF".

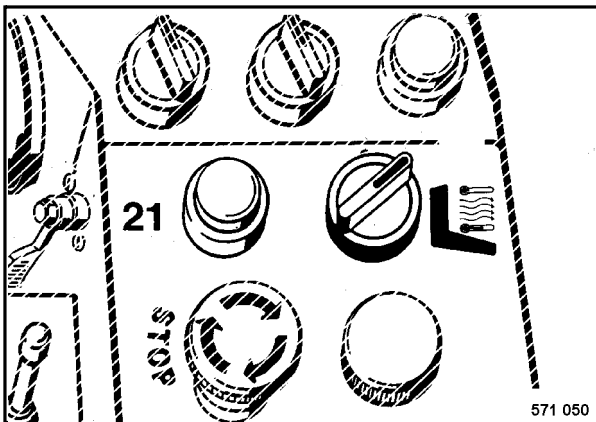


Fig. 14

- Actuate the push button 21 (Fig. 14) for 2 seconds.

The system will start to work.

Filling with a manual grease gun

⚠ Caution

Ensure strict cleanliness, as otherwise the distributor will be blocked.

For quality and quantity of grease refer to the table of fuels and lubricants.

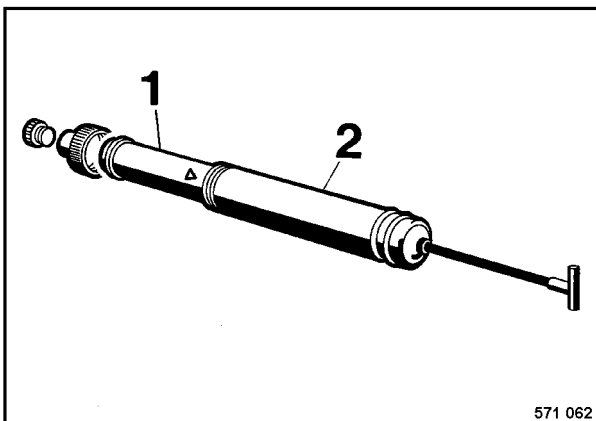


Fig. 15

- Remove both covers from the cartridge 1 (Fig. 15).
- Unscrew the connecting fitting from the manual grease gun (2).
- Pull the rod completely out.
- Push the cartridge with the triangular mark forward into the grease gun.

- Check, whether the sealing ring is correctly inserted in the connecting fitting.
- Screw the connecting fitting on to the manual grease gun.

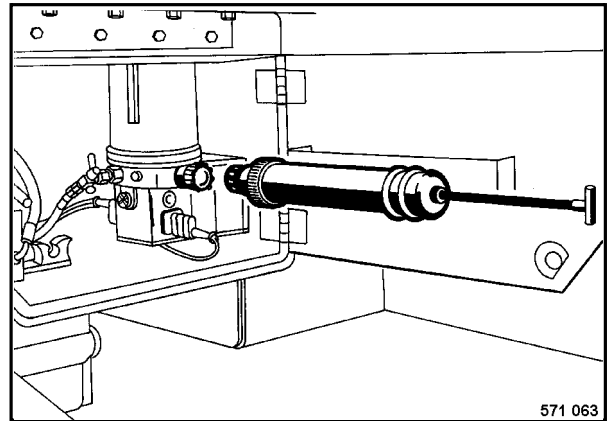


Fig. 16

- Clean the area around the covering cap of the central lubrication system.
- Unscrew the covering cap from the central lubrication system and unscrew the plug from the manual grease gun (Fig. 16).
- Screw the manual grease gun on the socket of the central lubrication system.
- Operate the rod to press the grease into the transparent container.
- Screw the manual grease gun off, insert a new cartridge and repeat the pumping action until the transparent container is filled up to the "Max"-mark.

⚠ Caution

After filling the container screw the cap and the plug back on.

5.31 Checking, adjusting the injection valves and the valve clearance

i Note

Valves and injection valves must be checked and adjusted at the latest every 1500 operating hours or once every year.

The tightening torque for the injection valve adjustment screws is 0,6 to 0,7 Nm (5 to 6 in-lb).

The valve clearance for

- the inlet valves = 0,36 mm (0.014 in)
- the exhaust valves = 0,69 mm (0.027 in)

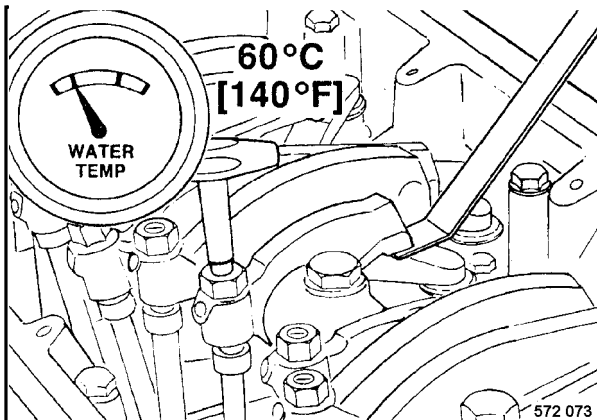


Fig. 1

⚠ Caution

The valve clearance and the injection valves must be checked and adjusted when the engine is cold (Fig. 1).

Coolant temperature > 60 °C

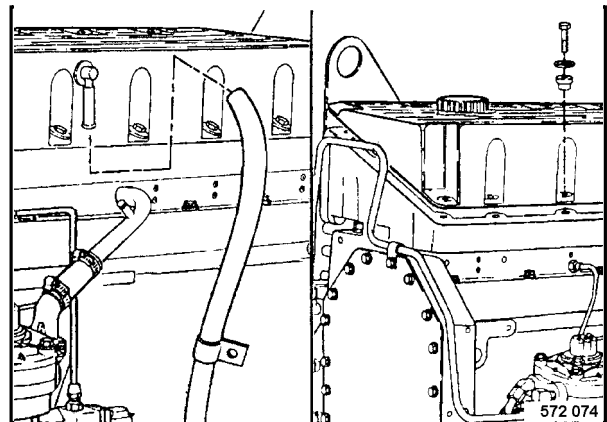


Fig. 2

- Remove the crankcase ventilation tube (Fig. 2).
- Unscrew the valve cover fastening screws and take the cover off.

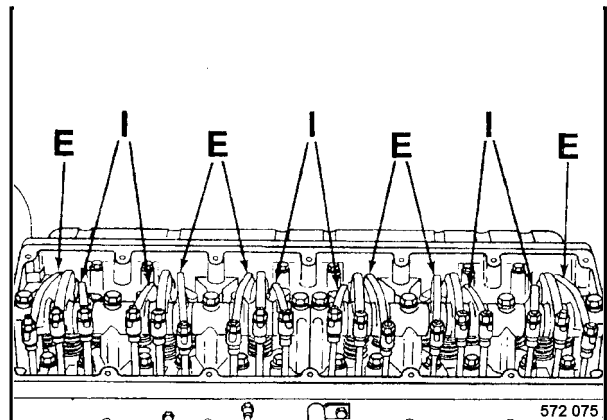


Fig. 3

Each of the cylinders (Fig. 3) has three rocker arms:

- The long rocker arm (E) is the arm for the exhaust valve (EXHAUST),
- the middle rocker arm is the arm for the injection valve,
- the short rocker arm (I) is the arm for the inlet valve (INLET).

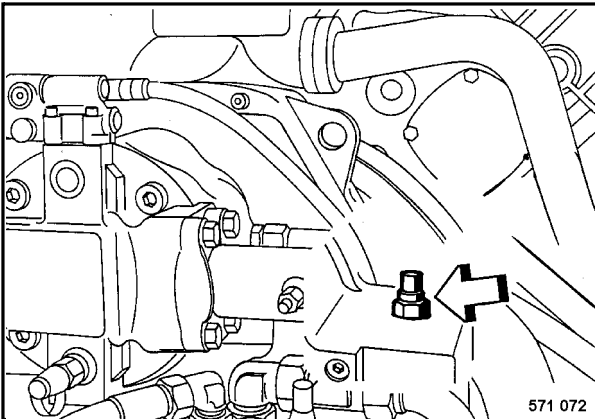


Fig. 35

- Clean the breather filter and screw it back in (Fig. 35).
- Remove the cover.

5.37 Changing the hydraulic oil fine filter

⚠ Danger

Danger of scalding!

There is a danger of scalding by hot oil when unscrewing the fine filter.

🌱 Environment

Do not let old oil seep into the ground, but dispose of environmentally.

If the filter has to be changed together with the hydraulic oil, the filter should in any case be changed after the oil change and the test run.

i Note

The filter elements must be changed with every hydraulic oil change or after major repairs in the hydraulic system.

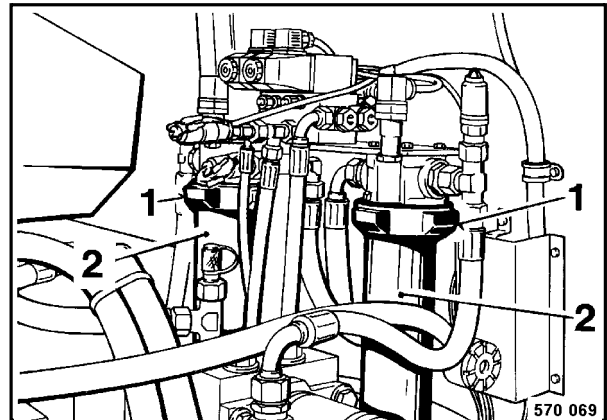


Fig. 36

- Remove the locking wire, if present.
- Unscrew the spigot nut 1 (Fig. 36).
- Take the filter bowl (2) with the filter element off.

5.45 Cleaning the condenser (air conditioning unit)

⚠ Caution

A soiled condenser impairs the efficiency of the air conditioning system considerably.

Under severe conditions (extreme dust) clean the condenser several times.

If the warning buzzer sounds continuously when the air conditioning unit is in operation, switch the air conditioning unit off and clean the condenser.

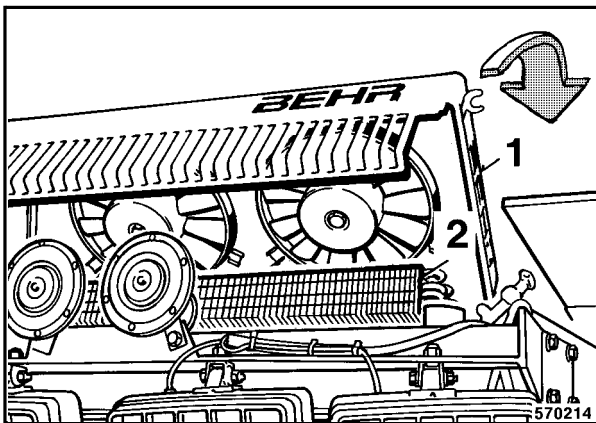


Fig. 5

- Unhook the rubber straps and open the flap 1 (Fig. 5).
- Blow the condenser fins (2) out with pressure air or clean it with a cold water jet.

⚠ Danger

Danger of accident!

Do not clean with a hot water jet. Heat causes an extreme overpressure which can damage the system or cause explosion of the air conditioning system.

- Straighten deformed fins with a fin comb.
- Close the flap.

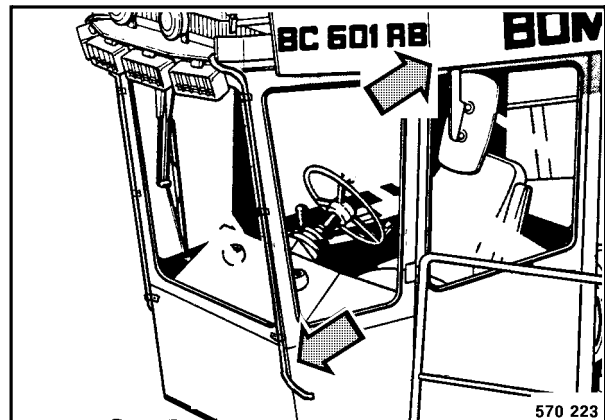


Fig. 6

- Keep the drain tube (Fig. 6) for drainage of the roof empty.

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