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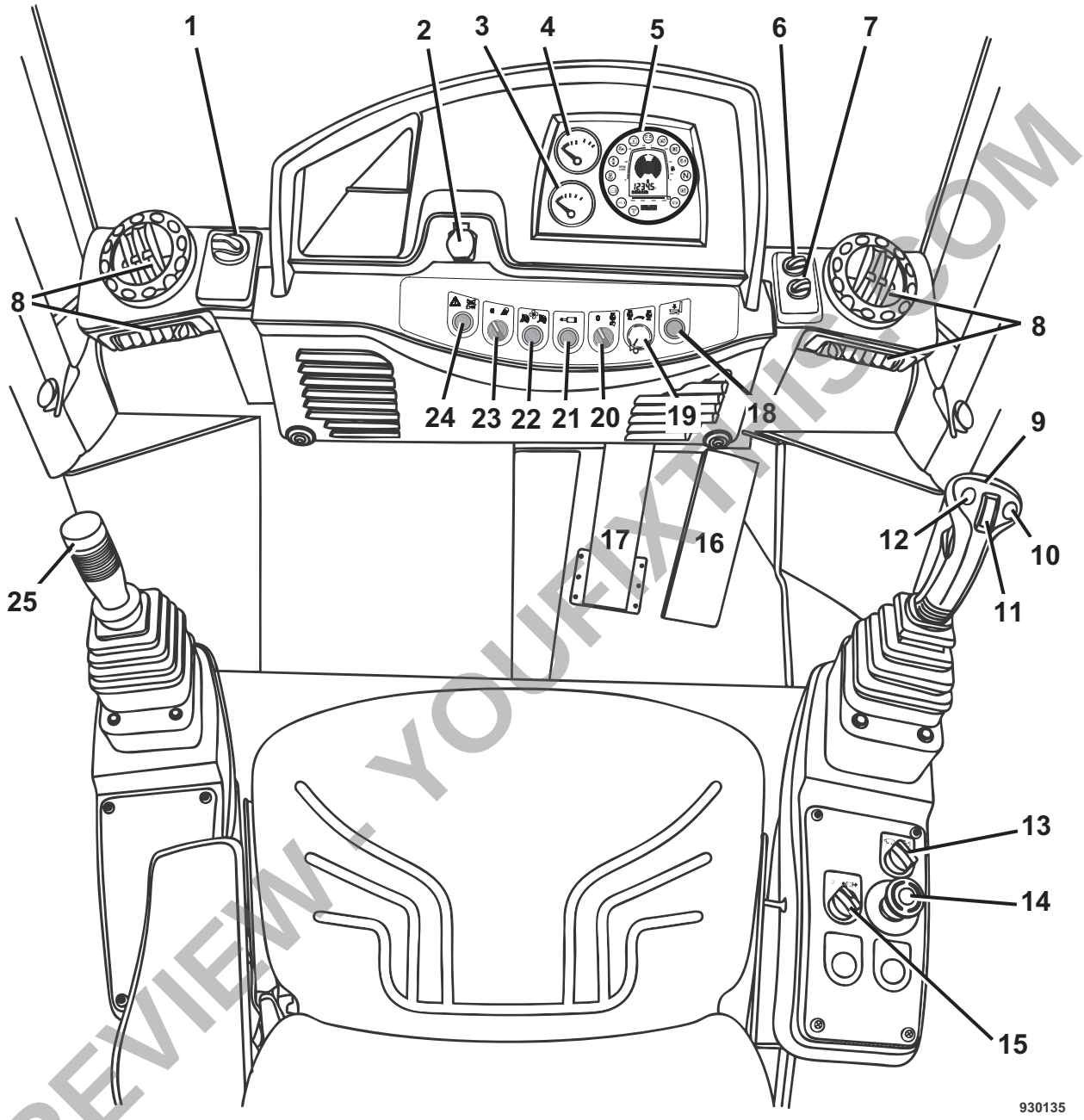


Fig. 10

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5.1 General

If you are not yet acquainted with the controls and indicating elements on this machine you should thoroughly read chapter "Indicators and control elements" before starting work.

All indicators and control elements are described in detail in this chapter.

5.2 Tests before taking into operation

Before the everyday use or before a longer working period the following tests and inspections must be performed.

⚠ Danger

Danger of accident!

Please observe strictly the safety regulations in the corresponding section of this instruction manual!

- Park the machine on ground as level as possible.

Check:

- Fuel tank and fuel lines for condition and leaks
- Hydraulic oil tank and lines for condition and leaks
- screw joints for tight fit
- function of steering
- function of emergency stop
- function of brakes
- machine for cleanliness, damage
- presence of the appropriate operating and maintenance instructions
- proper maintenance of the machine
- Scrapers for compactor wheels
- Edge cutter for compactor wheels
- Check inner sides of compactor wheels, remove wires, cables, ropes, etc.

⚠ Caution

Remove refuse residues, cables, ropes, wires etc. to prevent premature wear of the wheel shell edge.

i Note

For a description of the following tasks refer to the chapter "maintenance every 10 operating hours".

- Engine oil level, top up if necessary
- Fuel level, top up if necessary.

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6.1 General notes on maintenance

When performing maintenance work always comply with the appropriate safety regulations.

Thorough maintenance of the machine guarantees far longer safe functioning of the machine and prolongs the lifetime of important components. The effort needed for this work is only little compared with the problems that may arise when not observing this rule.

The terms right/left correspond with travel direction forward.

- For maintenance work stand the machine on level ground.
- Always secure the opened engine hood with a spring plug in the protection tube before carrying out maintenance and repair work in the engine compartment.
- Do not touch hot engine parts.
- Always clean machine and engine thoroughly before starting maintenance work.
- Always remove the main battery switch for all maintenance work.
- Perform maintenance work only with the engine shut down.
- Relieve hydraulic pressures before working on hydraulic lines.
- Before working on electric parts of the machine disconnect the battery and cover it with insulation material.
- When working in the area of the articulated joint attach the articulation lock (transport lock).

Environment

During maintenance work catch all oils and fuels and do not let them seep into the ground or into the sewage system. Dispose of oils and fuels environmentally.

Keep used filters in a separate waste container and dispose of environmentally.
Catch biodegradable oils separately.

Notes on the fuel system

The lifetime of the diesel engine depends to a great extent on the cleanliness of the fuel.

- Keep fuel free of contaminants and water, since this will damage the injection elements of the engine.
- Drums with inside zinc lining are not suitable to store fuel.
- When choosing the storage place for fuel make sure that spilled fuel will not harm the environment.
- Do not let the hose stir up the slurry at the bottom of the drum.
- The fuel drum must rest for a longer period of time before drawing off fuel.
- Fuel residues in the drum are not suitable for the engine.

Notes on the performance of the engine

On diesel engines both combustion air and fuel injection quantities are thoroughly adapted to each other and determine power, temperature level and exhaust gas quality of the engine.

If your engine has to work permanently in "thin air" (at higher altitudes) and under full load, you should consult the customer service of BOMAG or the customer service of the engine manufacturer.

Notes on the cooling system

Prepare and check coolant with highest care, since otherwise the engine may be damaged by corrosion, cavitation and freezing.

Coolant is prepared by adding an ethylene-glycol based anti-freeze agent with corrosion inhibiting properties to the cooling water.

Mixing with cooling system protection agent is necessary in all climatic zones. It prevents corrosion, lowers the freezing point and raises the boiling point of the coolant.

Notes on the hydraulic system

During maintenance work on the hydraulic system cleanliness is of major importance. Make sure that no dirt or other contaminating substances can enter into the system. Small particles can produce flutes in valves, cause pumps to seize, clog noz-

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7.1 General notes

Please observe strictly the safety regulations in the corresponding section of these operating and maintenance instructions.

Malfunctions are frequently caused by incorrect operation of the machine or insufficient maintenance. Whenever a fault occurs you should therefore thoroughly read these instruction on correct operation and maintenance.

If you cannot locate the cause of a fault or rectify it yourself by following the trouble shooting chart, you should contact our customer service department.

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General

This BOMAG machine has been built in compliance with the latest technical standard and complies with the applicable regulations and technical rules. However, dangers for persons and property may arise from this machine, if:

- it is used for purposes other than the ones it is intended for,
- it is operated by untrained personnel,
- it is changed or converted in an unprofessional way,
- the safety instructions are not observed.

Each person involved in the operation, maintenance and repair of the machine must therefore read and comply with these safety regulations. If necessary, this must be confirmed by obtaining the signature of the customer.

Furthermore, the following obviously also applies:

- applicable accident prevention instructions,
- generally accepted safety and road traffic regulations,
- country specific safety regulations. It is the duty of the operator to be acquainted with these instructions and to apply these accordingly. This applies also for local regulations concerning different types of handling work. Should the recommendations in these instructions be different from the regulations valid in your country, you must comply with the safety regulations valid in your country.

Intended use

This machine must only be used for:

- Compaction and distribution of refuse on the landfill site.

Unintended use

Dangers may arise from the machine when it is used for purposes other than the one it is intended for.

Any danger caused by intended use is the sole responsibility of the customer or driver/operator, the manufacturer cannot be made liable.

Examples for unintended use are:

- Driving on ground with insufficient load bearing capacity (soft spots, edges, embankments),
- Driving on subbases or under conditions, which could be destroyed by the wheels,
- Fire fighting operations,
- Lifting gear operation; mounting of lifting gear to dozer blade/bucket

Transporting persons, except the machine driver, is prohibited.

Starting and operation of the machine in explosive environments and in underground mining is prohibited.

Remaining dangers, remaining risks

Despite careful work and compliance with standards and regulations it cannot be ruled out that further dangers may arise when working with and handling the machine.

Both the machine as well as all other system components comply with the currently valid safety regulations. Nevertheless, remaining risks cannot be ruled out completely, even when using the machine for the purpose it is intended for and following all information given in the operating instructions.

A remaining risk can also not be excluded beyond the actual danger zone of the machine. Persons remaining in this area must pay particular attention to the machine, so that they can react immediately in case of a possible malfunction, an incident or failure etc.

All persons remaining ion the area of the machine must be informed about the dangers that arise from the operation of the machine.

Regular safety inspections

Have the machine inspected by an expert (capable person) as required for the conditiosn the machine is working under, but at least once every year.

Who is allowed to work with the machine?

The machine must only be operated by trained and authorized persons which are at least 18 years of age. The responsibilities for the operation of the machine must be clearly specified and complied with.

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Please fill in

. . . . . .

Machine type (Fig. 1)

. . . . . .

Serial-number (Fig. 1 and 2)

. . . . . .

Engine type (Fig. 3)

. . . . . .

Engine number (Fig. 3)

i Note

Supplement the above data together with the commissioning protocol.

During commissioning our organisation will instruct you in the operation and maintenance of the machine.

Please observe strictly the safety regulations and all notes on risks and dangers!

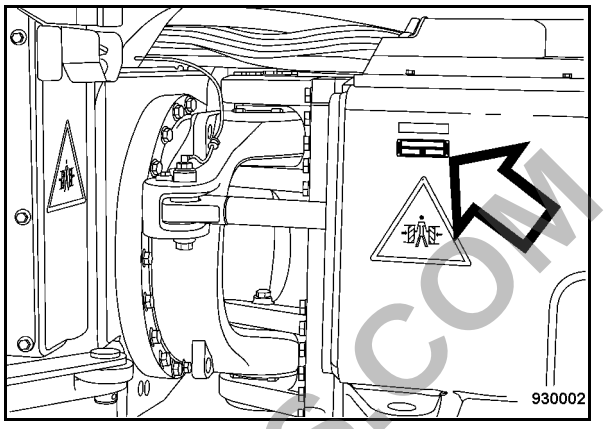


Fig. 1

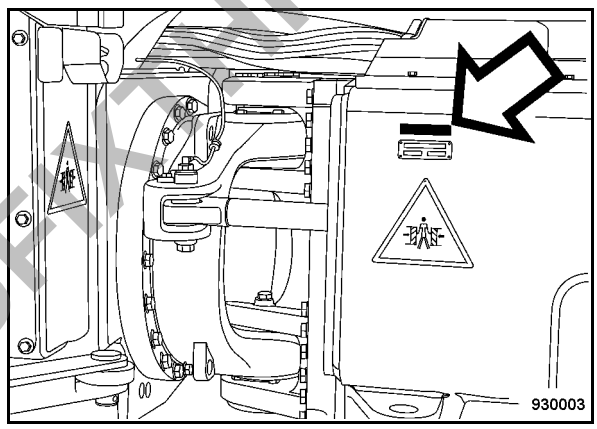


Fig. 2

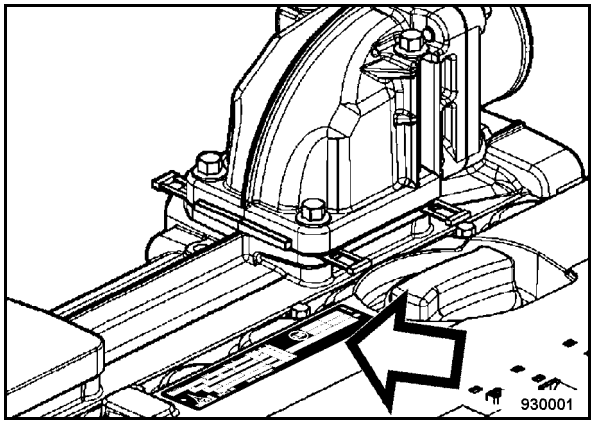


Fig. 3

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and parking brake warning light stay on. The preheating control light lights up in case of low temperatures.

i Note

The starter switch is designed with a re-start lock. For a new starting attempt the ignition key must first be turned back to position "0".

Position "START" = Turn further against spring pressure, the engine starts, turn the ignition key back to position "I" once the engine has started.

⚠ Caution

Run the engine warm for a short while before starting work. Do not rev up a cold engine to high idle speed/full load speed.

Do not shut down the engine all of a sudden from full load speed, but let it idle for about 2 minutes.

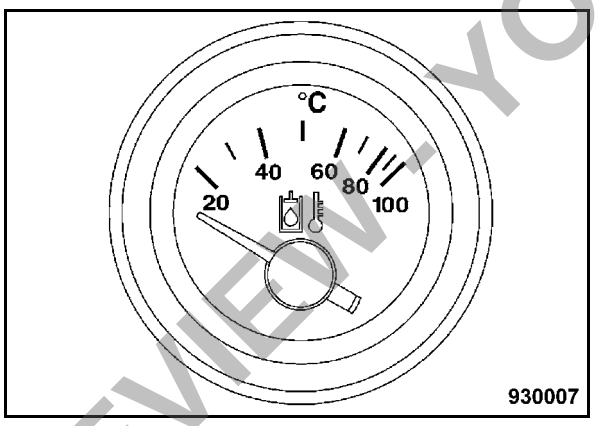


Fig. 13

No. 3 = Hydraulic oil temperature gauge[1]

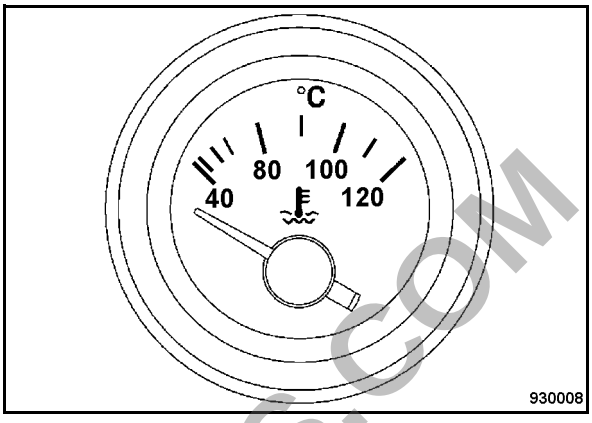


Fig. 14

No. 4 = Coolant temperature gauge

1 Optional equipment

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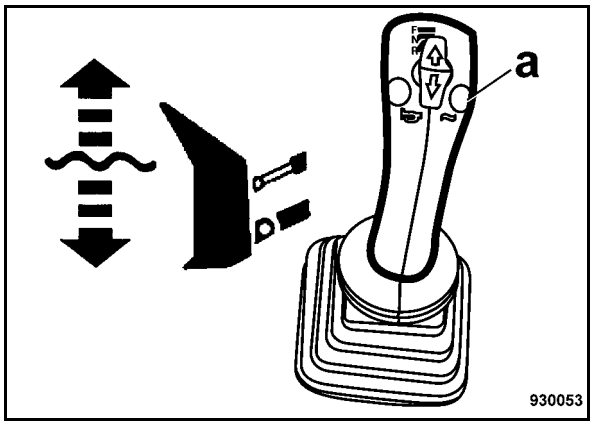


Fig. 88

- Press push button "a" (Fig. 88) to activate float position.

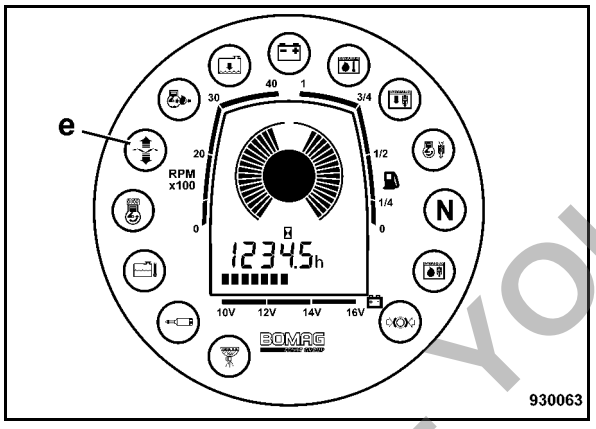


Fig. 89

- The float position control light (e) (Fig. 89) in the instrument cluster lights up.

The dozer blade automatically lowers to float position.

i Note

In float position the dozer blade cannot be raised.

- Press push button "a" again to deactivate float position. The float position control light goes out.

5.11 Operating the bucket (RS)

⚠ Danger

Life hazard!

Do not use the bucket to transport persons.

Moving other vehicles with the bucket is prohibited.

Attaching hoisting gear to the bucket is prohibited.

Always lower the bucket to the ground before shutting down the engine.

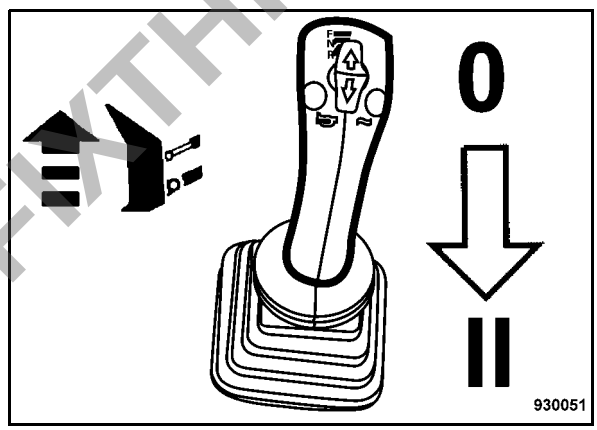


Fig. 90

- Pull the lever for bucket control (Fig. 90) back to position "II" and raise the bucket.

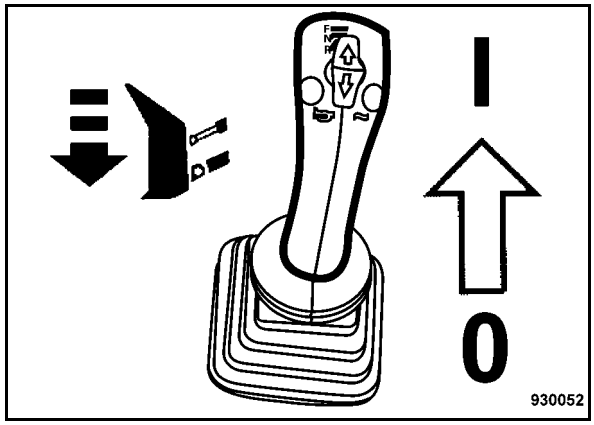


Fig. 91

- Shift the bucket control lever (Fig. 91) forward to position "II" and lower the bucket to the ground.

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6.8 Checking the hydraulic oil level

⚠ Caution

In hydraulic systems filled with Panolin HLP Synth.46 always use the same oil to top up. With other ester based oils consult the lubrication oil service of the respective oil manufacturer.

⚠ Caution

If, during the daily inspection of the oil level the hydraulic oil level is found to have dropped, check all lines, hoses and components for leaks.

⚠ Caution

Check the oil level with the dozer blade lowered.

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

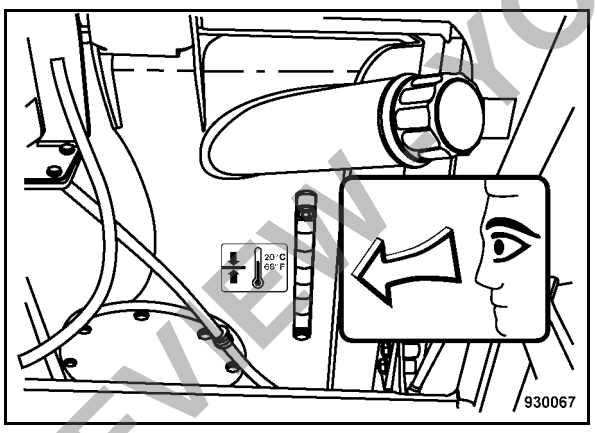


Fig. 134

- Check the oil level in the inspection glass (Fig. 134).

i Note

At a room temperature of approx. 20 °C the oil level should reach approx. 1/2 way up the inspection glass.

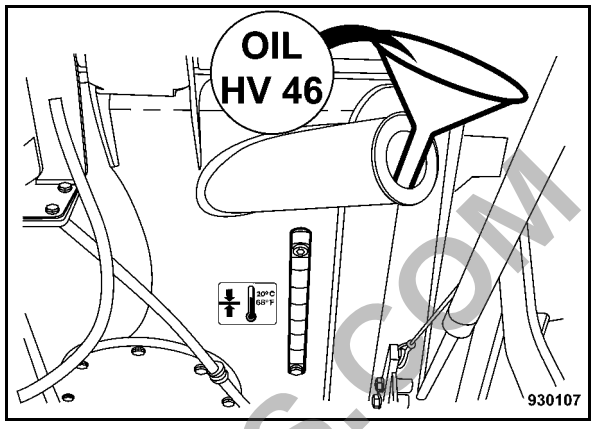


Fig. 135

- If the oil level is too low top up hydraulic oil immediately through a funnel (Fig. 135).

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6.32 Adjust the valve clearance

⚠ Caution

We recommend to have this work carried out by trained personnel or our after sales service.

Before checking the valve clearance let the engine cool down for at least 30 minutes. The engine oil temperature must be below 80°C (176°F).

Valve clearance adjustment angle:

Intake valve: 90° ±15°

Exhaust valve: 150° ±15°

- Remove the valve covers.
- Turn the crankshaft with the cranking device until the valves are overlapping.

i Note

Firing sequence 1-5-3-6-2-4

Overlapping of valves: Exhaust valve not yet closed, intake valve starts to open.

Valves	Cylinder					
overlapping	1	5	3	6	2	4
adjustment	6	2	4	1	5	3

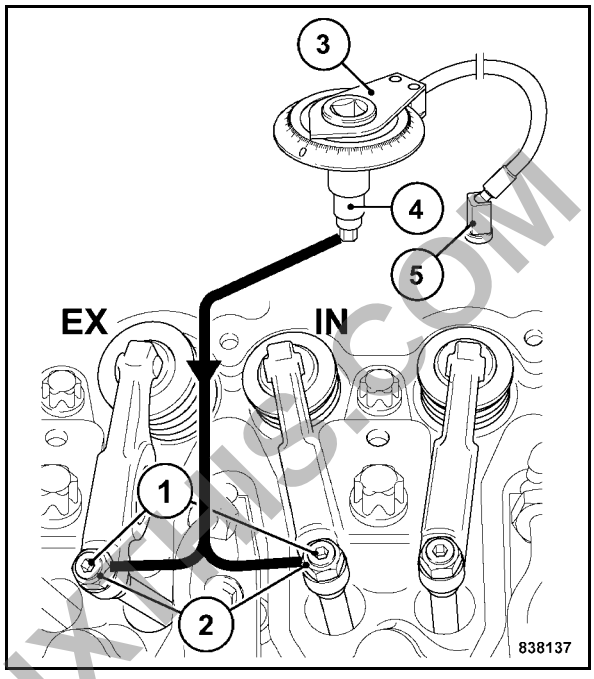


Fig. 188

- Loosen the counter nut (1) (Fig. 188).
- Attach the rotation angle disc (3) and the spanner socket (4) to the valve clearance adjustment screw (2).
- Fix the magnet (5) of the rotation angle disc.
- Turn the rotation angle disc clockwise against the stop (rocker arm no clearance) and set the scale to zero.
- Turn the rotation angle disc counter-clockwise, until the specified angle is reached.
- Hold the rotation angle disc tight, so that it does not turn, and tighten counter nut (1).

Tightening torque: 20 Nm (15 ft·lbs)

- Repeat this adjustment procedure an all other cylinders, after cranking the crankshaft accordingly.
- Install the cylinder head cover with a new gasket.

Tightening torque: 13 Nm (10 ft·lbs)

- After a short test run check the engine for leaks.

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