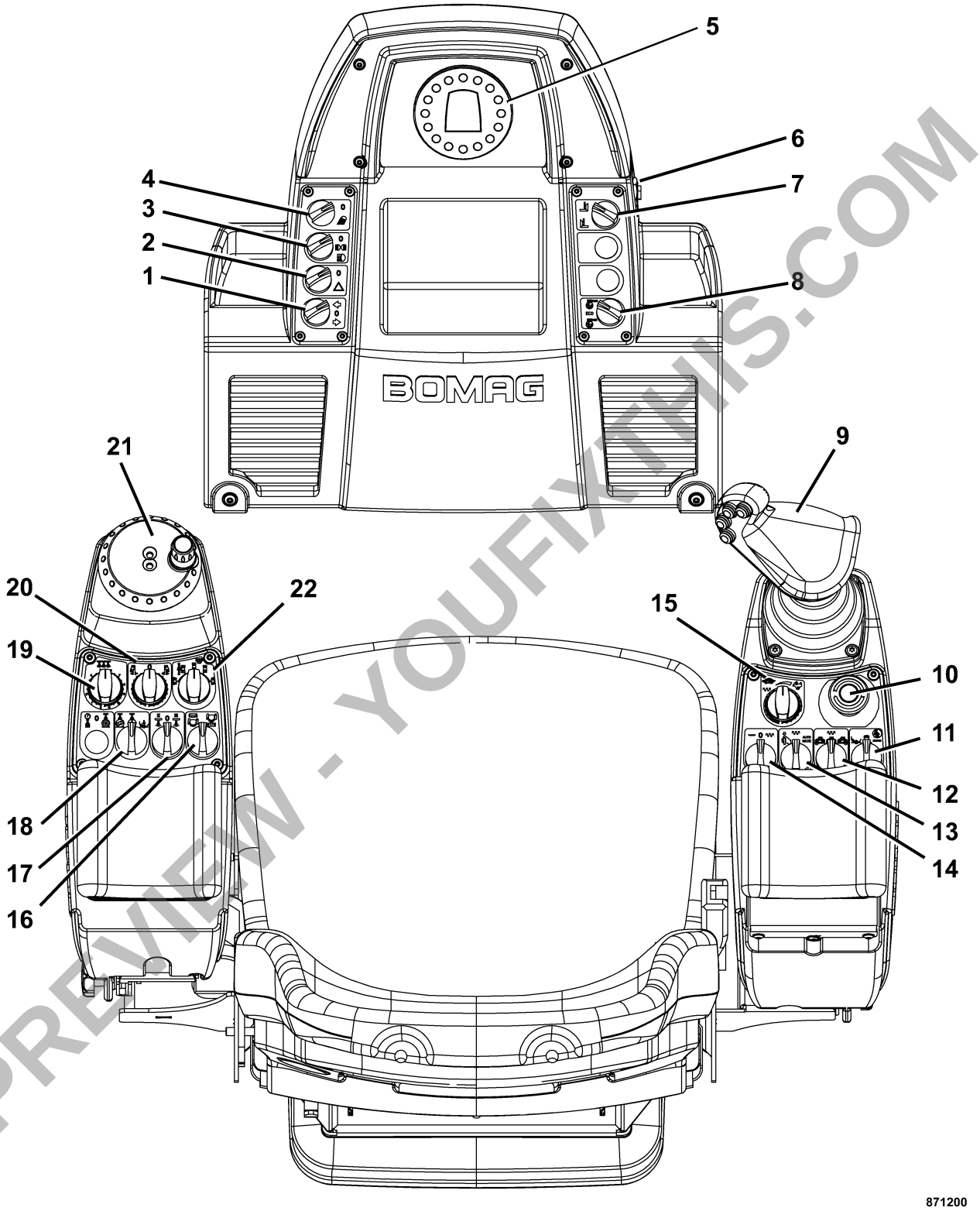


Fig. 10

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4.1 General

If you are not yet acquainted with the controls and indicating elements on this machine you should thoroughly read chapter 3 “Indicators and control elements” before starting work.

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

4.2 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 chapter 2 of this instruction manual!

- Park the machine on ground as level as possible.

Check:

- fuel tank and fuel lines for leaks
- screw joints for tight fit
- function of steering
- function of emergency stop
- machine for cleanliness, damage
- Presence of the appropriate operating and maintenance instructions
- proper maintenance of the machine
- right and left hand service doors closed and locked or bolted
- Clean the scrapers, check their condition, replace if necessary.

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.
- Hydraulic oil level, top up if necessary.
- Coolant level, top up if necessary
- Water level, top up if necessary.
- Check the precision spreader* and clean the spreading beam.

* Optional equipment

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5.1 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.

- Always clean machine and engine thoroughly before starting maintenance work.
- For maintenance work stand the machine on level ground.
- Always remove the main battery switch for all maintenance work.
- Perform maintenance work only with the motor switched off.
- 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.

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.
- The rest in the drum is not suitable for the engine and should only be used for cleaning purposes.

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 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 nozzles and pilot bores, thereby making expensive repairs inevitable.

- 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.
- Seal external leaks immediately. If necessary inform the responsible customer service.
- Do not store drums with hydraulic oil outdoors, or at least under a cover. Water can be drawn in through the bunghole when the weather changes.
- Always use the filling and filtering unit (BOMAG part-no. 007 610 01) to fill the hydraulic system. This unit is fitted with a fine filter to clean the hydraulic oil, thereby prolonging the lifetime of the filter.

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6.1 General notes

The following work must only be carried out by qualified and trained personnel or by the BOMAG sales service.

Please observe strictly the safety regulations in chapter 2 of these operating and maintenance instructions.

Faults occur frequently due to the fact, that the machine has not been properly operated or serviced. Therefore, whenever a fault occurs, read through these instructions on correct operation and maintenance. If you cannot locate the cause of the fault or eliminate it yourself by following the trouble shooting charts, you should contact our customer service departments at our branch office or dealers.

⚠ Danger

Danger of injury!

Keep away from rotating parts of the engine.

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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 of bituminous material, e.g. road surface layers.
- medium to heavy compaction work in earth construction (road sub-bases)

Unintended use

However, dangers may arise from this machine if it is operated by untrained personnel or if it is subjected of unintended use.

For example:

- work with vibration on hard concrete, cured bitumen layers or extremely frozen ground
- the drum is wider than the working width (danger of tipping over)
- the machine is too heavy for the sub-structure
- unauthorized use of public roads
- using the machine for towing
- driving on unstable subbases or insufficient grip

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 (properly trained person) once every year.

Who is allowed to operate the machine?

Only trained, instructed and authorized persons of at least 18 years of age are permitted to drive and operate this machine. For operation of the machine the responsibilities must be clearly specified and complied with.

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Please fill in

. . . . . .

Machine type (Fig. 1)

. . . . . .

Serial-number (Fig. 1 and 2)

. . . . . .

Motor type (Fig. 3)

. . . . . .

Motor 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!

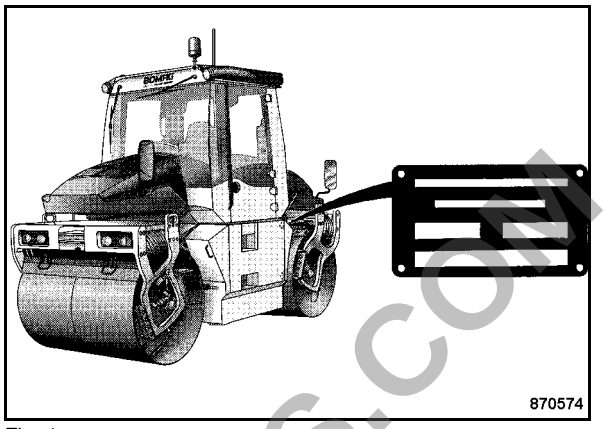


Fig. 1

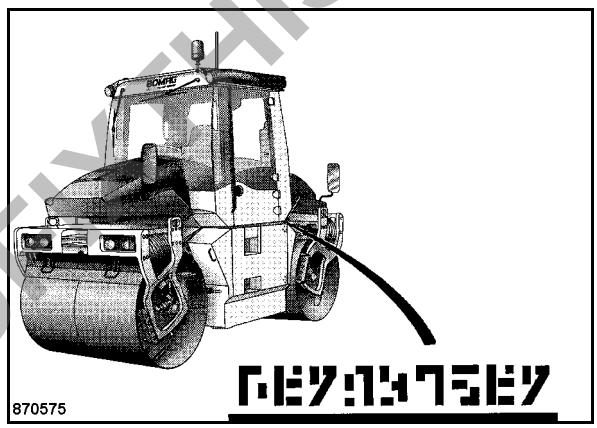


Fig. 2

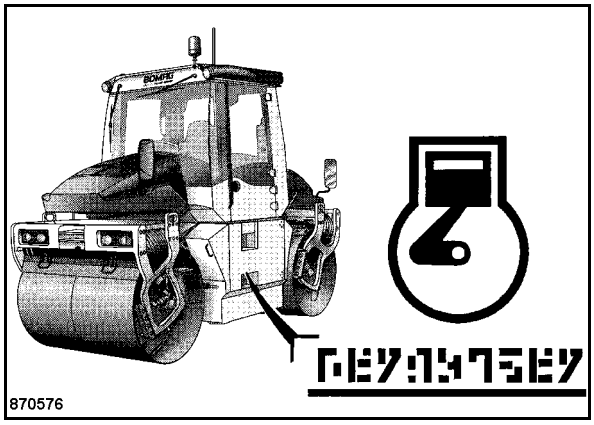


Fig. 3

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3.1 General notes

Please read this section thoroughly before operating this machine if you are not yet conversant with the indicators and control elements. All functions are described in detail hereunder.

Paragraph 4 Operation contains only concise descriptions of the individual operating steps.

3.2 Description of indicators and control elements

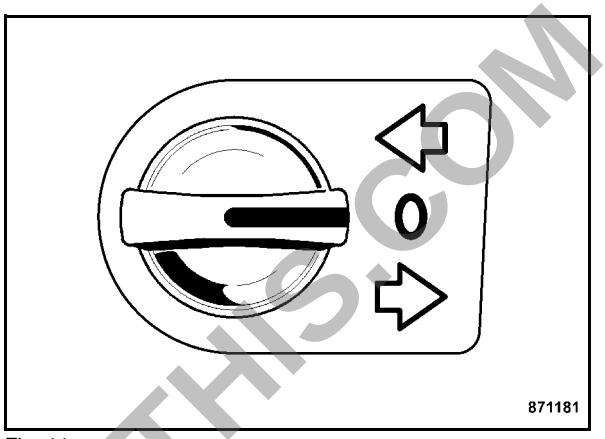


Fig. 11

No. 1 = Rotary switch for direction indicators

Position "0"	=	Direction indicators disabled.
Position "Top"	=	Direction indicators left flashing. Control light in switch and indicator control light in the instrument cluster start flashing.
Position "Bottom"	=	Direction indicators right flashing. Control light in switch and indicator control light in the instrument cluster start flashing.

i Note

If the cable to the precision chip spreader is plugged in, the control light in the rotary switch will also flash for function testing. If the control light does not flash, one of the indicators on the vehicle or on the precision chip spreader is defective.

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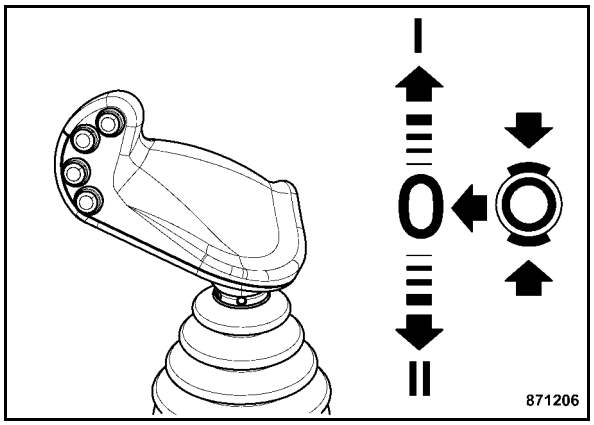


Fig. 70

- Disengage the travel lever (Fig. 70) from lokked position to the left.

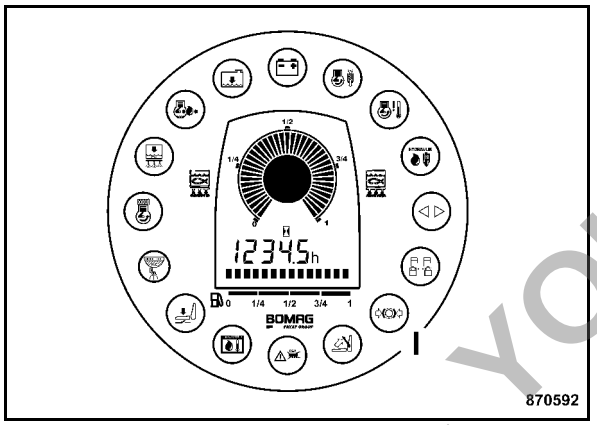


Fig. 71

The parking brake warning light (I) (Fig. 71) goes out.

- Move the travel lever form "0"-position slowly to forward or reverse.

i Note

The machine drives forward or backward with a speed that corresponds with the actuation of the travel lever.

- Return the travel lever to position "0".

i Note

The machine is braked and stops in "0"-position.

⚠ Danger

Danger of accident!

When stopping on inclinations and slopes pull the travel lever to the right and lock it in braking position.

Important notes on travel operation

⚠ Caution

When changing the travel direction hold the travel lever for a moment in "0"-position, until the machine has stopped, before actuating to the new travel direction.

Do not operate jerkily! Control the travel speed with the travel lever. During operation the rotary switch for engine speed must remain in "ECO" or "MAX"-position.

When driving up and down inclinations move the travel lever slowly back towards neutral to brake the machine.

If the engine speed drops when driving up extreme inclinations move the ravel lever slightly back, if necessary change to the lower speed range (select at least speed range 4 - 3).

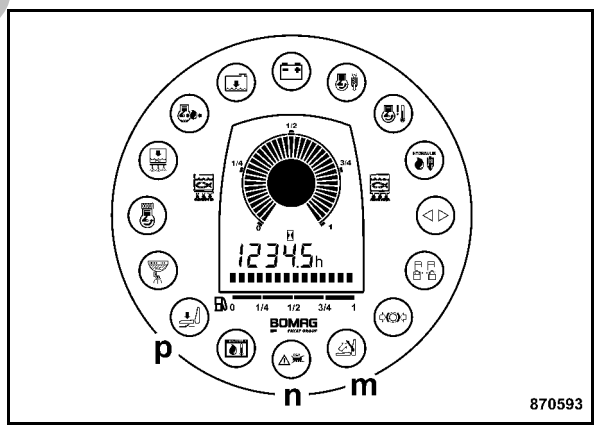


Fig. 72

If the driver leaves the seat during travel, raises the arm consoles or turns the driver's seat, the warning light for the driver's seat (m) (Fig. 72), the warning light for the arm console (p) or the fault warning light (n) in the instrument cluster light up and the machine is automatically braked down to standstill.

The parking brake is closed with a slight delay.

This ensures reliable stopping even when driving on slopes.

However, if the travel control detects that the operator has occupied his seat again before the ma-

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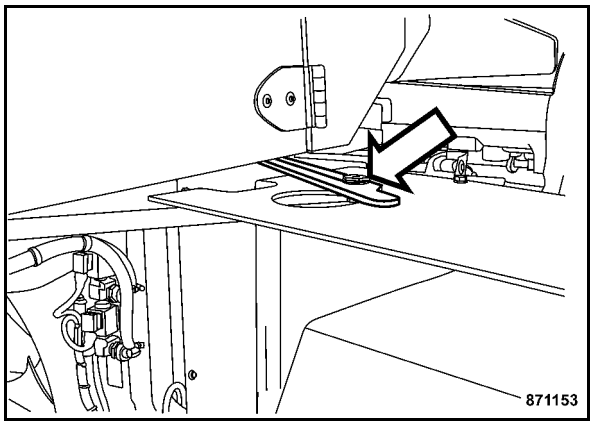


Fig. 139

- Lock the service door with the locking bow (Fig. 139).
- Push the locking bow back to close the service door, lock it with the latch (Fig. 138).

4.24 Towing

⚠ Danger

Danger of accident!

Before releasing the parking brake secure the machine against unintended rolling by using appropriate means (e.g. metal wheel chocks).

Use a towing vehicle with sufficient traction and braking power for the unbraked towed load.

Use a tow bar.

Using the machine as towing vehicle is not permitted.

⚠ Danger

Danger of injury!

Do not touch hot engine parts.

⚠ Caution

Tow the machine only after releasing the parking brake.

Towing speed 1 km/h, max. towing distance 500 m.

Loosen the parking brake manually

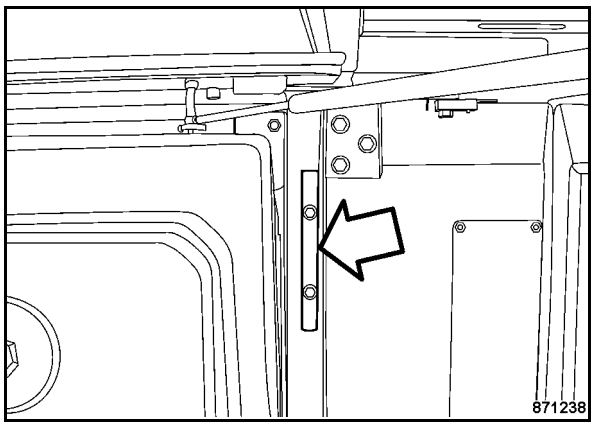


Fig. 140

- Open the right hand service door.
- Take the pump lever extension (Fig. 140) from the right maintenance door.

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