

MENEGOTTI TECHNICAL MANUAL

TAMPING RAMMER

RAM 68H - 75M

40860339 - Tamping Rammer RAM68H with Honda Engine GX100 CD

40860345 - Tamping Rammer RAM68H with Honda Engine GXR120R CB

40860341 - Tamping Rammer RAM75M with Menegotti 165 CB Engine

QR-Code:



Point your cell phone or tablet camera to access the updated version of **Technical Manuals** and **Parts Catalogs** online, or click the link below to access the website.

www.sites.google.com/view/menegotti-engenharia-docs

Attention:

Before operate **Menegotti** equipment, read this **Technical Manual**, itself will inform and instruct the operator about the operation.
By the way, you avoid possible working accidents and early maintenance on at the equipment.



MENEGOTTI[®]
CONSTRUCTION

Congratulations, you have just purchased a Menegotti product!

With the highest quality, projected and built especially to serve your needs.

This manual was elaborated to provides the informations and key instructions to use and mantain our product, in addition presents their technical characteristics.

Before use the product for the first time, read and pay attention at the informations in this manual.

The product durability only depends the way you treat it in service (operation) and the satisfactory working is consequence of yours regular work carefully.

Menegotti is preparaded to offer you all technical assistance, and attend all your needs about replacement parts.

Welcome, you are part of the huge Menegotti “customers family”.

After sales Departament
and Technical Assistance MENEGOTTI.

Attention: For better comodity, store and keep this manual in a properly spot so it can be easily checked.

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Menegotti Group

Menegotti is reference in the development of solutions in machines and tools for the Construction machinery, Handling and Lawn | Garden Segments.

A Brazilian company, present in more than 40 countries, has its headquarters in Jaraguá do Sul, Santa Catarina, units in Brazil and in the United States.

With more than 80th years of history, it is in the fourth generation of consistent and successful family management.

National leader in sales of concrete and cement mixers, it stands out in the resale and rental market.

Through its Innovation Program, it fosters creativity and competitiveness, with disruptive actions and partnerships, aimed at continuous professional and business growth.

With an organizational culture that values and encourages its constant professional and personal development, Menegotti is active in sustainable projects, which make its purpose of contribute “to build a better and more sustainable world”, a reality.



The Product

A Tamping Rammer is a compacting machine, capable of working quickly by applying consecutive impacts to the soil surface in order to level the uneven its surface, leveling it so that the space between the particles decreases, and to increase the dry density of the soil that has its moisture removed by the compaction process. Percussion compactors are designed to compact loose soil and gravel to prevent settling and provide a firm, solid base for the laying of footings, concrete slabs, foundations, gas pipe work, water pipe work, and cable casing work, etc.

Safety Information

Note: Anyone performing any kind of operation with this equipment must read this manual and the safety guidelines.



- Never allow untrained people to operate the Tamping Rammer.
- Read, understand, and follow the procedures in the Instruction Manual before attempting to operate the equipment.
- Make sure the operator is familiar with proper safety precautions and operating techniques before using the Tamping Rammer.
- Do not operate the Tamping Rammer in applications it's not intended for.
- Do not modify or disable the function of the operational controls.
- Do not use accessories that are not recommended by Menegotti for the Rammer. It can cause damage to the equipment and/or injuries.
- Use caution and common sense when operating the Rammer.
- Do not leave the machine running unattended.

- In case of damaged or missing parts, contact Menegotti immediately for replacement.
- With the machine turned off, make a daily inspection of the parts of the equipment. In case of problems, contact Menegotti Authorized Service immediately.
- Make sure that all people are at a safe distance from the Rammer. Stop the equipment if people enter the working area of the equipment.
- Guide the rammer so that the operator is not squeezed between the rammer and solid objects such as walls, gullies, etc. Make sure to stand firm when operating the machine in such conditions.
- Make sure the Rammer will not tip, roll or fall when not being operated, or when working near curbs, ditches, slopes, ditches and platforms.
- Do not use the machine indoors or in an enclosed area such as a deep ditch unless there is adequate ventilation. Engine exhaust gases contain carbon monoxide; exposure to carbon monoxide can cause loss of consciousness and can lead to death.
- Never ingest fuel or inhale its vapors, and avoid skin contact. In case of skin contact, wash the affected surface immediately. If fuel comes into contact with operator's eyes, flush immediately with water and seek medical attention as soon as possible.
- Wear protective clothing when operating the rammer. Wear safety glasses or goggles, ear protection, and safety shoes.
- Always keep hands, feet, and loose clothing away from the moving parts of the Rammer.
- Wear a mask during compaction, refueling and fuel tank cleaning operations.
- Make sure before starting trench compaction that the walls will not collapse due to vibration.
- Verify that the area to be compacted does not contain energized electrical lines or gas, water or communication services that could be damaged by vibration.
- Avoid contact with hot surfaces, contact with these areas can cause severe burns.
- Before performing any operation or maintenance, wait for the engine to cool down.
- Do not refuel the engine when it is hot or running.
- Do not refuel near a confined area, area with sparks, flames, smoke or any restricted area.
- Do not spill fuel when refueling the engine. Always wipe up any spilled fuel.
- Do not smoke when operating the Rammer and/or fueling the engine.
- Do not smoke near a confined area, areas with sparks, flames, smoke or any restricted area.
- Always replace the fuel tank cap after refueling.
- Check the fuel hoses, fuel tank cap, and fuel tank for leaks before starting the engine. Do not start the machine if there are fuel leaks or the fuel tank cap or tank is loose.
- Always turn off the Rammer when it's not being operated.
- Never use the choke to stop the engine.
- Always remove or disconnect the spark plug from the engine to avoid accidental starting.



- Do not attempt to clean or repair the Rammer while it is working.
- Do not operate the compactor with safety devices, guards removed or without operating conditions.
- Do not operate the Rammer without the air filter.
- Do not remove the air filter element, the pre-cleaner or the air filter cover while the Rammer is operating.
- Do not change the engine speeds. Only operate the motor at the speed specified in the Technical Specifications.
- Always replace safety devices and guards after repairs and maintenance.
- Keep the area around the muffler free of debris to reduce the risk of accidental fire.
- Keep the cooling fins clean of debris.
- Always perform periodic maintenance as recommended in the Operation Manual.
- Always replace worn or damaged components with spare parts recommended by Menegotti for the maintenance of this Rammer.

Technical Specifications

Technical Data	RAM 68H	RAM 68H	RAM 75M
Engine	Honda GX100	Honda GXR120	Menegotti 165
Power - kW (hp)	2,2 (3,0)	2,7 (3,6)	2,7 (3,6)
Operating mass - kg	68	68	75
Impact force - kN	12,8	12,8	14
Strike distance - mm	40 - 85	40 - 85	40 - 80
Fuel tank capacity - liters	2,8	2,8	2,8
Shoe size - mm	330 x 285	330 x 285	330 x 285
Measured sound power - dB	103	103	103
Measured sound level - dB	104	104	104
Sound level threshold - dB	106	106	106
Dimensions (L x W x H)	760 x 430 x 1020mm	760 x 430 x 1020mm	760 x 430 x 1020mm

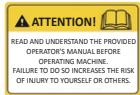
Machine Symbolology



1 - Engines emit carbon monoxide; operate only in well-ventilated areas. Read the Operation Manual for machine information. Beware of sparks, flames or burning objects near the machine. Turn off the engine before refueling. Use only regular gasoline (no additives).



2 - Always wear ear protectors and goggles when operating this machine.



3 - Read and understand the Operator's Manual provided before operating the machine. Failure to do so increases the risk of injury to yourself or others.



4 - Lifting point



5 - Do not lay down the equipment!



6 - Use only clean and filtered gasoline.



7 - Hot surface.



8 - For optimal control and performance, and minimal hand and arm vibration, hold the handlebars as shown.



9 - Serious injury can occur if you are hit by the compressed spring or the cover. If the spring system cover is removed improperly, the springs can eject.



10 - Guaranteed sound level in dB(A)

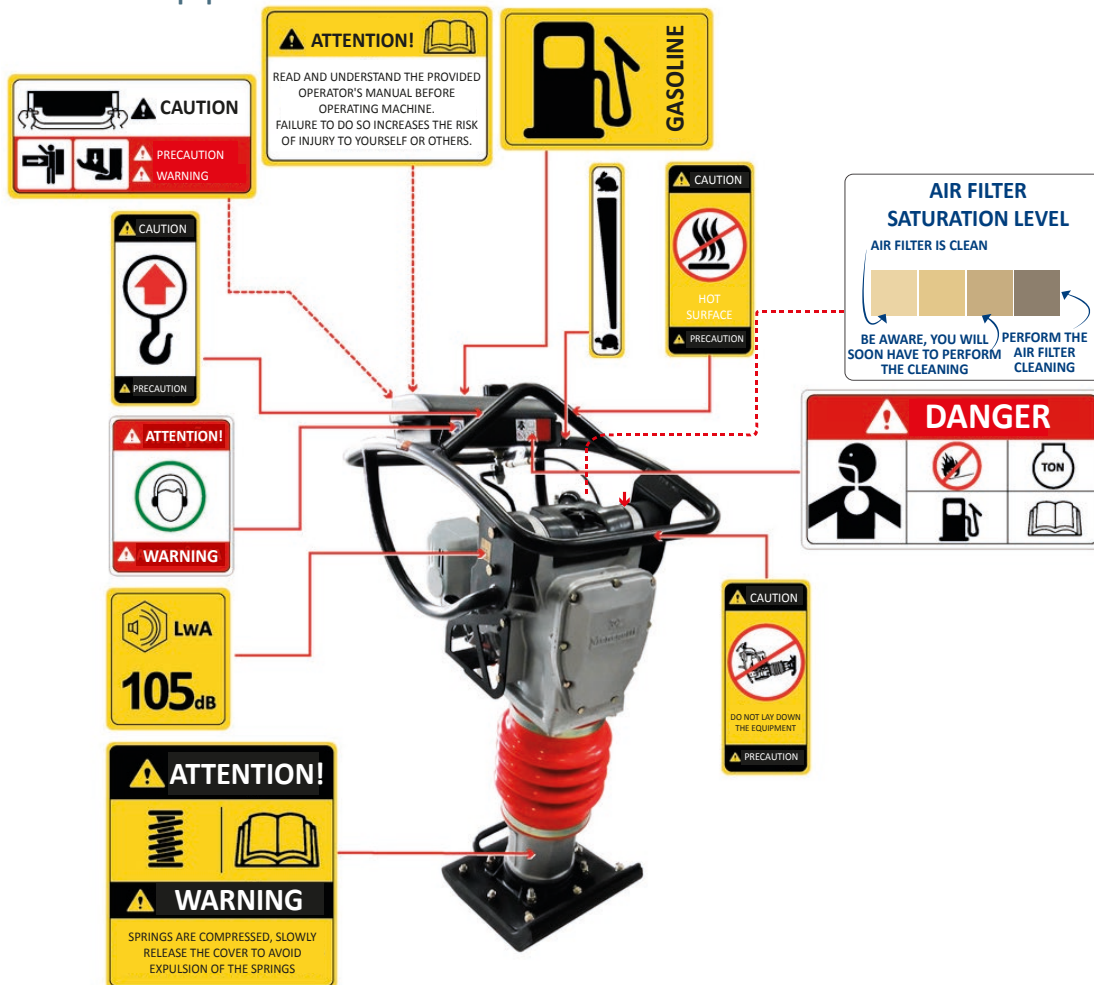


11 - Throttle Control Lever: Turtle = stopped or slow; Rabbit = full or fast.



12 - Air filter saturation level.

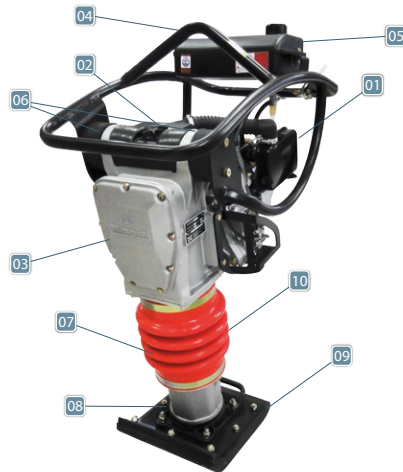
Location of the stickers on the equipment:



Components

The upper part is composed of the engine, clutch, connecting rod and operating handlebars. The fuel tank is connected by the compactor frame shock absorbers. The lower part is composed of cylindrical springs (sliding part), shoe base, shoe and bellow, which covers the sliding part.

Tamping Rammer	
1	Engine
2	Clutch
3	Connecting rod
4	Operating handlebars
5	Fuel tank
6	Shock Absorber
7	Cylindrical springs
8	Shoe base
9	Shoe
10	Bellow



Machine Operation

- This equipment may only be used for its proper application and by trained operators.
- Owners of this equipment must train and recommend safety instructions in accordance with local laws.
- Use appropriate equipment to lift the product.
- Keep people and animals away from the equipment during use.
- Never allow a person to be used as a weight for this equipment.

- This equipment has been designed to eliminate any risk of accident. However risks will always exist and can cause accidents and even death due to misuse. If the operator finds himself in a risky situation, the equipment must be turned off immediately and the supervisor or person in charge takes measures to eliminate these risks. It is necessary to inform the manufacturer of any risk event or accident with the equipment.

Before starting the operation

1 - Analyze if there are signs or defects present in the equipment, check if all the shields are positioned in their correct places.

2 - Inspect hoses, openings, drains and other areas for leaks.

3 - This machine has an oil bath lubrication system. Check the oil level at the rear end of the shoe. If oil is not visible on the visor, add oil. To lubricate, use automotive engine oil SAE 10W-30 SE, SF or better. Add oil if not visible on the visor. The capacity is 830 cm³ or 830 ml.

4 - Fill the fuel tank with regular gasoline (no additives). At the same time, check the engine oil and get in the habit of refilling it in advance. Low lubricating oil level can result in engine damage due to high levels of consumption during operation. However, the oil level must always be checked before starting any operation. For lubrication, use automotive lubricating oil SAE 10W-30 SE, SF or better. The capacity is 280 ml for the RAM 68H model and 400 ml for the RAM 75M model. Check Engine Operation Manual for details.

5 - Check that the air filter is clean. Excessive dust on the filter will cause the engine to not run under normal conditions and will cause engine damage.

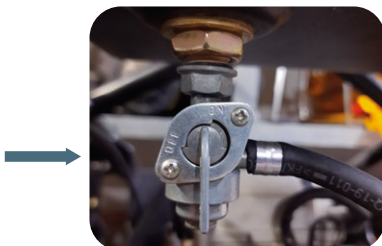
6 - Check each screw/bolt, nut, or screwed area for tightness. Loosening due to vibration can unexpectedly result in serious problems. Be sure to tighten any screwed/bolted area.

7 - Remove dirt and dust. In particular, clean up around the starter mechanism and the shoe.



Starting the engine

1. Open the fuel valve located under the fuel tank, moving the switch from the “OFF” position to “ON”, as shown in the figures below.



2. Position the engine stop switch from the “OFF” position to the “ON” position, as shown in the figures below;



3. Move the throttle lever/rod to approximately 1/4 of its full travel (25% throttle), as indicated in the following figure;



ATTENTION: If it exceeds this value (25%), there is a risk that, when starting the engine, it has enough capacity to make the machine run without the operator being prepared to start operations, a fact that can result in accidents or damage to the machine.

4. Activate the choke, as shown in the figures below;

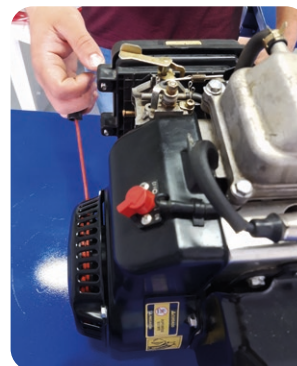


NOTE: The choke can change its physical appearance and position depending on the machine, including the direction for its opening or closing, so pay attention to the signs containing information regarding actions, movements and directions.



ATTENTION: Step 4 is valid only in cases of cold start, in case of hot start, disregard this step, that is, it is not necessary to activate the choke. In cases where the engine is at an "average temperature" to the point that it does not fit into any of the starting categories, that is, hot or cold, open the choke in order to have 50% of its actuation, soon after, just follow the instructions for the other steps as normal.

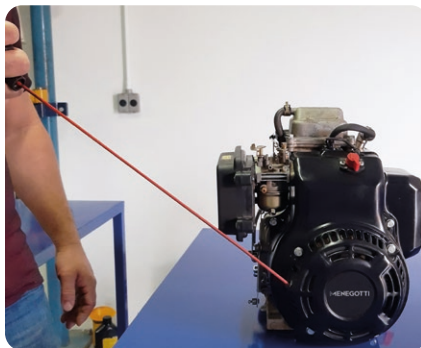
5. Pull the starter rod/handle slightly to correctly fit the internal components until it offers a slight resistance to movement, as shown in the following figures;



ATTENTION: This first movement must be smooth for the correct fitting of the components shown in the following figures. Once the rods open and fit into the limiting walls, if the movement is abrupt and not continuous, the fitting may not occur as it should, which compromises the internal walls of this system, and also decreases the useful life of the retractable starter rope.



6. Pull the starting rod/handle continuously, quickly, and firmly to start the engine;



ATTENTION: Both the pulling and returning movement of the recoil starter rod/handle must be firm and continuous, in order to avoid breaking internal components. To perform the correct movement, just pull the rod to the position that offers a little resistance, which indicates the ideal fit of the internal components, and from this point on, continue the movement in a continuous, fast and firm way, without sudden movements, the same is valid for returning the rod to the initial position, that is, do not release the rod/handle while the rope is taut and out of the housing.

7. When the engine starts, return the choke rod to the “Closed” position, and move the throttle rod to a position of 50 to 75% of the throttle so that it is continuous;

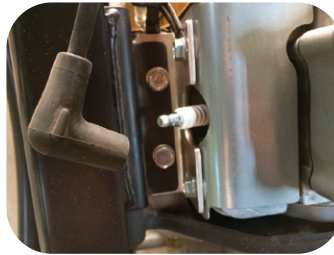
8. If the engine fails to start after 3 attempts, open the choke lever slightly and repeat the entire engine starting process;

9. Let the engine warm up for 3 to 5 minutes before using it under load, that is, in full operation;

10. Always operate the engine with the throttle rod fully open (100%) when the machine/equipment is in operation.

NOTE: If it is difficult to start the engine by pulling the starter rope several times, remove the spark plug and check for sparking. If the spark plug is wet due to excessive gasoline intake or is dirty, replace or clean the inside.

With the spark plug removed, pull the starter cord 2-3 times to discharge excess mixed gas.



Starting Operation

1 - Turn the lever to open the choke. Leave the engine running for 5 minutes at low speed to warm it up.

2 - Move the speed lever quickly to the "full throttle" (rabbit) position. Do not move the lever slowly, as this may cause damage to the clutch or the spring.



CAUTION: Operating the rammer below maximum speed can cause damage to the clutch springs or shoe.

3 - After starting the rammer, adjust the skip motion to suit a certain ground condition by lightly controlling the throttle lever. When the engine speed falls between the set values shown on the engine, your work can be performed with the best efficiency. Increasing the engine speed unnecessarily does not increase the compaction force. Instead, the resulting resonance causes a decrease in the compaction force, damaging the machine.

4 - Under cold weather, the oil in the machine becomes more viscous, the resistance to movement is higher. causing the rammer to perform somewhat erratically. Therefore, it is recommended to warm up while moving the throttle lever repeatedly between the "rabbit" and "turtle" positions before starting operation.

5 - The contact surface of the shoe with the ground is covered with sheet metal for extra strength. However, for compaction on cobblestones, use a filler in the soil (a piece of rubber, for example) so that the shoe touches this material evenly without causing a big impact on the equipment.

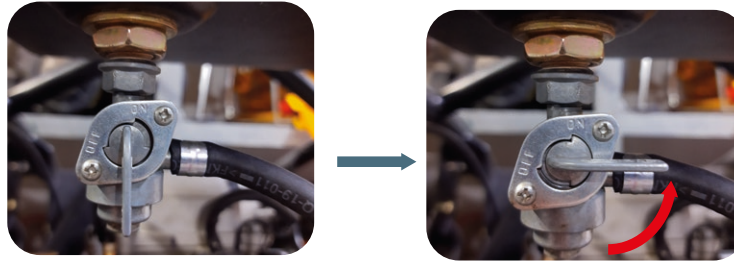
6 - The tamping rammer is designed to advance while jumping. For faster advance, lift the machine by pushing its operating handlebar slightly down so that the flat surface of the rear of the shoe contacts the ground.

Turning off the Equipment

1. Reduce the acceleration through the throttle lever starting from: "rabbit" to "turtle", as shown in the first image; let the engine run for 3 to 5 minutes at low speed, and after the temperature has dropped, turn the starter key to the "OFF" position.



2. Close the fuel valve by moving the fuel lever to the “CLOSED” (OFF) position.



NOTE: These starting instructions are general guidelines only. Consult the engine manual for specific instructions.

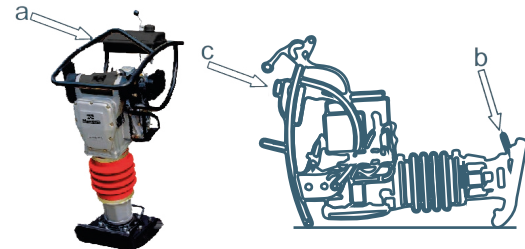
Emergency stop

- 1 - Quickly move the throttle lever to the idle position and turn the engine switch “ON/OFF” to the “OFF” position.

Transport and Storage

Transport

- 1 - Turn off the engine for transport.
- 2 - For transportation, tighten the fuel tank cap securely and close the fuel valve to prevent fuel leakage.
3. Drain the fuel to transport over a long distance or a bad road.
4. Secure the machine firmly to prevent it from moving or dropping.
5. The rammer should be transported in such a position as it is placed at ground level (a). In case you have to lay the rammer down for transport, drain the fuel tank as well as the carburetor make sure the oil plug is securely tightened, then tie it to the vehicle at points (b) and (c) as shown in the picture on the side.
6. Make sure that the lifting device has sufficient capacity to hold the machine (see machine weight on the nameplate). Use the center lifting point when lifting the machine.



Storage

The Rammer can be stored in position (a), shown above, once it is placed on the level, after the engine and machine have cooled down. Be sure to protect the Rammer by preventing it from falling.

If the rammer has been dropped, tighten the fuel tank cap and the engine oil plug securely and wait until the engine and machine have cooled down. After this has been established, make sure that there are no fuel or oil leaks. (If fuel leaks, drain the tank).

Long time storage

- Drain fuel from the fuel tank, fuel hoses and carburetor.
- Remove the spark plug and pour a few drops of engine oil into the cylinder. Give between 3 and 4 starts so that the oil reaches all the internal parts.
- Clean the outside with a cloth soaked in oil.
- Store unit covered with plastic sheet in moisture free and dust free location out of direct sunlight.

Environmental Protection

Do not dispose of the machine in any garbage, dispose of it in a suitable environment and contact the responsible agency for proper disposal. Preserving the environment is very important.

Tamping Rammer Maintenance

Below are some recommended guidelines for better conservation and performance of the compactor. We also recommend that the engine maintenance is carried out and followed according to the procedures described in the Engine Manual, which can be consulted by the QR-Code/link available on the cover of this manual (Menegotti Motor) or directly on the manufacturer's website (Honda Motor).

Frequency: Perform at each indicated operation period (hour).					
Items/Operation Periods	Daily	After 5 hours	Every 20 hours	Every 100 hours	Every 300 hours
Check fuel level	X				
Check oil level of machine	X				
Check the fuel hose for cracks or leaks	X				
Tighten the shoe frame bolts		X	X		
Check and tighten engine cylinder bolts		X	X		
Check and tighten external fasteners		X	X		
Clean the engine cooling fins			X		
Check and clean the spark plug			X		
Replace the spark plug				X	
Clean the recoil starter					X
Change ramming system oil*					X
Replace muffler and exhaust port					X
Change engine oil**				X	
Clean the carburetor***			1 ^a	X	

*Change ramming system oil after the first 50 hours of operation.

**Change Engine oil after the first 20 hours of operation.

***Clean the carburetor after the first 20 hours of operation. After that, repeat the procedure every 100 hours of operation.

NOTES: If engine performance is poor, clean or replace filter elements if necessary.

If the engine malfunctions or shuts down suddenly, clean the carburetor.

Cleaning

Gearbox air filter cleaning (change every 6 to 12 months)

Take the screw, and remove the top cover. Remove pre-filter element from top of gearbox and clean with kerosene. Wet the lower element (grey) with 7 to 9ml and leave the upper element (black) with oil.



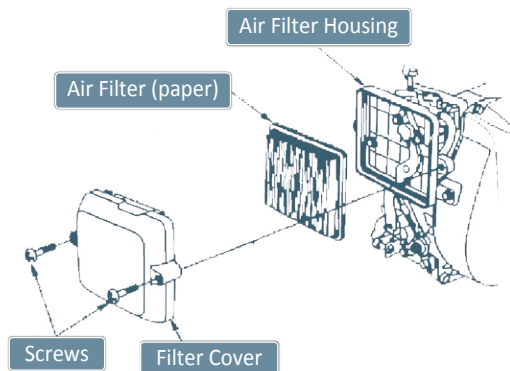
Engine air filter cleaning

- 1 - Remove the two screws and the air filter cover.
- 2 - Remove the engine air filter.
- 3 - Inspect the air filter and, if necessary, replace it. Regularly change the filter according to the engine manufacturer's specification (according to the engine Instruction Manual).

4 - Cleaning the air filter:

Air filter: tap the filter on a rigid surface until all dust is removed. Or, use compressed air at a maximum pressure of 207kPa (2.1 kgf/cm or 30psi). Never brush the filter.

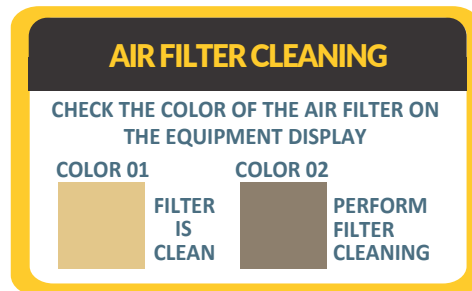
5 - Clean dirt from inside the air filter case and cover with a damp cloth. Be careful to prevent dirt from entering the air duct leading to the carburetor. After that, put the parts back together and reassemble the air filter.



Air filter saturation level display

ATTENTION: Observe, through the display, the saturation of your equipment's air filter and follow the guidelines indicated on the sticker attached to the filter cover.

NOTE: the air filter saturation level display is only available on some models.



- If the air filter is in "Color 01", it is clean and you can continue working with the equipment.
- If the air filter is in "Color 02", Menegotti recommends cleaning it.
- If, after cleaning, the filter does not return to "Color 01", replace it.

Troubleshooting

Engine problems

Operation is unsatisfactory (malfunction)

SYMPTOM	PROBLEM	SOLUTION
Not enough power available (normal compression, no failures)	Clogged air filter	Clean or change the air filter
	Air in the fuel hose	Taking the air out of the fuel hose
	Fuel level in carburetor float chamber incorrect	Adjust carburetor float
	Carbon deposited in the cylinder	Clean or replace the cylinder
	Spark plug defect	Flush the fuel system and replace with fresh fuel
	Poor contact in spark plug wires	Replace spark plug wires, clean spark plugs
	Inadequate fuel used (water, dust)	Flush fuel system and replace with fresh fuel
Overheated engine	Fuel mixture quality	Check fuel
	Excessive carbon deposit in the combustion chamber	Clean or change the crankcase
	Exhaust or muffler clogged with carbon	Clean or change the muffler
	Spark plug heating is incorrect	Change the spark plug with the correct type of plug
Rotational speed fluctuates.	Incorrect governor lever adjustment	Adjust the governor lever to the correct position
	Governor spring defect	Change the governor spring
	Irregular fuel flow	Check fuel line
	Air taken in through suction line	Check the suction hose
Starter lever doesn't work properly	Dust in the rotating part	Clean the starter handle assembly
	Defective spiral spring	Change spiral spring
Engine fails or chokes	Engine fails at idle or high speed, does not hold idle, carburetor chokes, engine does not start, no power at high speed, carburetor chokes, and idle speed is high	Check the diaphragm and other rubber and plastic parts for cracks, distortion and wear
Engine fails or chokes	Engine chokes at idle or high speed, engine has low power at high speed, carburetor chokes, idle speed is high, engine begs for fuel at high speed	Check carburetor seals and diaphragms sequence

Difficulty starting the engine

SYMPTOM	PROBLEM	SOLUTION
Fuel is available, but the spark plug does not spark (power available at high voltage signal).	Clogged spark plugs	Check the ignition system
	Carbon deposited on the spark plug	Clean or change the spark plug
	Short circuit due to poor insulation	Replace insulation
	Improper spark	Select the correct spark gap for the spark plug(s)
Fuel is available, but the spark plug does not spark (power not available at high voltage signal).	Short-circuit in the stop switch	Check the stop switch circuit. Change the stop switch if it is defective
	Defective ignition coil	Replace the ignition coil
Fuel is available, and the spark plug sparks (normal compression)	Muffler clogged with carbon deposit	Clean or replace the muffler
	Fuel mixture quality is inadequate	Check fuel
	Inadequate fuel used (water, dust)	Flush fuel system and replace with fresh fuel
	Clogged air filter	Clean or change the air filters
	Cylinder head gasket defect	Tighten cylinder head bolts or change cylinder head gasket
	Cylinder worn out	Change cylinder
	Loose Spark Plugs	Tighten the spark plugs

Problems with the Rammer

SYMPTOM	PROBLEM	SOLUTION
Engine rotates but amplitude is not uniform or unable to jump	Throttle lever operating speed is correctly set	Set the throttle lever to the correct position
	Excess oil	Drain excess oil. Leave it at the correct level.
	Clutch slipping	Change the clutch spring
	Spring failing	Change or adjust the spring
	Improper engine speed	Adjust the motor speed to the correct operating rotation

Product Warranty

The conditions and terms of this warranty are non transferable and go into effect on the date of purchase of this equipment, proven by presentation of the sales invoice issued to the first end user. At the time of delivery of the equipment, the customer must be provided with the information and technical orientations according to the contents of this manual.

Not, however, included in this warranty are defects arising from improper use, negligence, imprudence or malpractice, nor are repairs or alterations to any part and/or component of the equipment. Also not included are: the assembly of any sets of parts by technicians not from the Factory itself or from an Authorized Technical Assistant, application other than which it was specified, mechanical or electrical overloading as well as lack of phase, use in environments for which it was not designed, incorrect voltages and frequencies, incorrect lubrication, damage caused by accidents of any nature, such as floods, gales, fire, landslides or due to transportation.

Removal or any alteration to the series numbers originally placed on the product will render the warranty null, where the Sales invoice and Warranty Certificate must be presented in relation to the equipment in question.

This warranty is limited to the repair, replacement of parts or assembly of parts in which, through examination by a Menegotti Authorized Technical Assistant with prior authorization from the Factory, any manufacturing defect will be verified. This repair or replacement will be performed by the authorized Technical Assistant, where the purchaser will be responsible for risks and expenses arising from transport to and from the authorized Technical Assistant, and where labor and parts will not be charged according to the terms of this warranty.

This warranty replaces any other warranty, implicit or explicit, as well as all any obligation or responsibility on the part of our company in relation to the above mentioned product.

MENEGOTTI Post Sales Department and Technical Assistance.

Warranty Term

By the present CERTIFICATE provided from original purchaser, Menegotti guarantees this product against manufacturing defects, for a period of 12 (twelve) months, being: the first 3 (three) months of legal guarantee, and the last 9 (nine) months a special warranty guaranteed by Menegotti, counted from the invoice issue date of the first final consumer. The components of daily use such as: bearings, clutch disc, gears, tires, brake shoes, etc. are not included in the warranty.

This warranty includes spare parts and repair against manufacturing defects duly verified by the factory or Authorized Technical Assistance. The warranty for this product will be void if it suffers damage caused by accidents, natural events, application outside the specification, or in the case of alterations or repairs by a person or workshop not authorized by Menegotti. The product freight charges, including the technical assistant or factory, are borne by the consumer.

If the equipment is purchased with the engine warranty covers defects arising from the internal engine manufacture. Not covered by warranty defects of: broken or crushed shell due to carelessness in transporting/or storage, energization of the engine coupling or out specification defects, general misuse and /or incorrect installation, overcharging due to lack or excess of phase and use of voltage out of the specification.

Aware of this term,

Customer: _____
Model: _____ **Serial Number:** _____
City: _____ **Date:** _____

Customer *Menegotti Authorized Service*



Solid values, **sustainable future.**

MENEGOTTI
HANDLING

MENEGOTTI
CONSTRUCTION

MENEGOTTI
HOUSE & GARDEN



Unit • Unidad Menmaq

Erwino Menegotti, 381 - Água Verde
Jaraguá do Sul - SC - 89254-000



Unit • Unidad Mentec

José Theodoro Ribeiro, 2399 - Ilha da Figueira
Jaraguá do Sul - SC - 89258-468



Unit • Unidad Menfer

Saudade, 186 - Seminário
Corupá - SC - 89278-000



Unit • Unidad MNA

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