

MENEGOTTI TECHNICAL MANUAL

TAMPING RAMMER

RAM 70H

QR-Code:



Point your mobile phone camera to access the updated online version of **Technical Manuals** and **Parts Catalogs**, or click on 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
NORTH AMERICA 

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 addiction 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 prepared 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

Tamping Rammer is a compacting machine, capable of quickly working by applying consecutive impacts to the surface of soil in order to level the uneven soil surface, to compact the soil uniformly so that the void among soil particles are minimized and to increase its dry density with moisture in the soil removed. Rammers are designed to compact loose soils and gravel to prevent settling and to provide a firm, solid base for the placement of footings, concrete slabs, foundations, gas piping works, water pipe works and cable backfill works, etc.

General Use and Care

The tamping rammer 70H has several applications in compaction of:

- External and narrow areas;
- Base or Sub base of construction of foundations and floors;
- Soil preparation of trenches that will receive gas and water pipes;
- Medium cohesive soil;
- Gravel, sand or clay.

- NEVER use RAMMERS on EXTREME HARD surfaces such as asphalt, concrete blocks, sidewalks pavers or floors or the like.

- The use of the compactor in not recommended ground conditions generates damage to the tamping system and causes loss of warranty due to misuse.

- IMPORTANT! The operator must be of legal age, be trained to operate this equipment and always use obligatory personal protective equipment in all times.



**USE OBLIGATORY
PROTECTIVE
EQUIPMENT**

**ALWAYS FOLLOW THE INSTRUCTIONS OF THE
TECHNICAL OR ENGINEER IN THE WORK FIELD.**



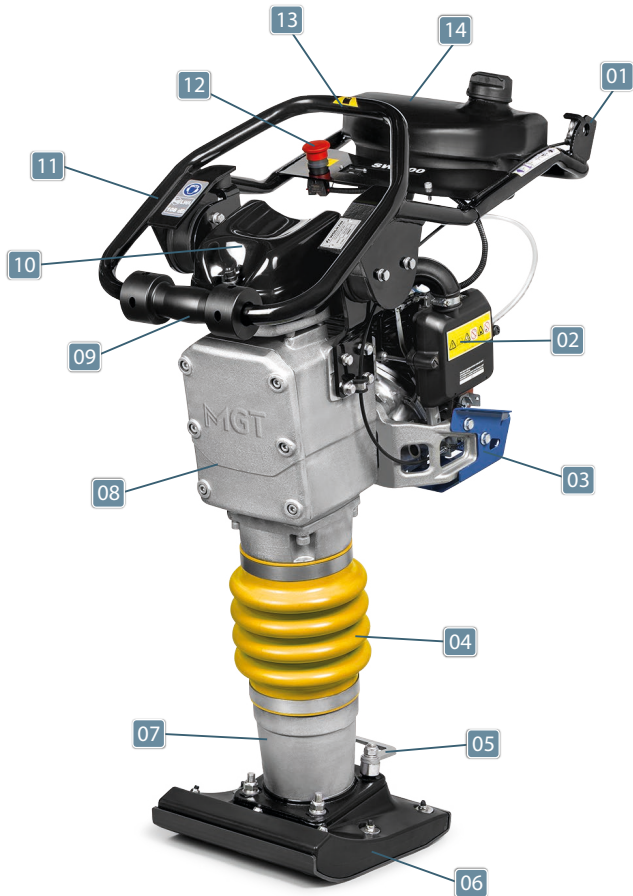
General Care

- It is not recommended to use this machine in rainy conditions or flooded terrain;
- Do not use the machine on “over” compacted terrain, soils and floors;
- The Soil Compactor shall be inspected at least once per shift for visible damage. In the event of their existence, immediately stop the operation and inform the person responsible for the machines' care;
- Perform PREVENTIVE maintenance according to the specifications in this instruction manual. This action will increase the life of the machine and ensure your warranty right;
- Gravel, sand or clay.
- Do not break the engine's seal and change the engine speed, this generates excessive wear on the motor, base and tamping system of this machine;
- Keep an eye on the constant training offered by our technical assistance center in your area;

-IMPORTANT!

The operator must be of legal age, be trained to operate this equipment and always use OBLIGATORY PERSONAL PROTECTIVE EQUIPMENT IN ALL TIMES.

General Vision of The Equipment



Number	Part
01	Accelerator Throttle
02	Engine Filter
03	Engine Protection
04	Bellows
05	Transport Shoulder Strap 2
06	Shoe
07	Tamping System
08	Crank Case
09	Transport Roller
10	4 Cycle Air Filter
11	Cable Guide Bar
12	Emergency Button
13	Transport Shoulder Strap 1
14	Gas Tank

Technical Info

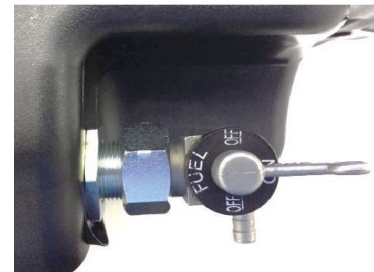
Info	World Metric		US Metric	
Weight	Kg	69	Lb	152
Shoe Size	LxC (cm)	28x32	LxC (Inches)	11x12,6
Fuel	Type	Petrol	Type	Petrol
Fuel Consumption	Liters/hours	1	Gallons/hour	0,26
Gas Tank Capacity	Liters	3	Gallons	0,79
Engine Brand	Honda	GXR120	Honda	GXR120
Power	HP	4	HP	4
Forward Speed	Meters/minute	16	Miles/minute	52,5
Percussion Beatings	Max Beatings p/ minute	Up to 680	Max Beatings p/ minute	680
Force of Impact	kN	18	kN	18
Compaction Depth	Centimeters	Up to 60	Inches	1,97
Surface Compaction Capacity	M ² /h	280	Square feet/hour	918

Starting The Equipment

1. STARTING THE EQUIPMENT

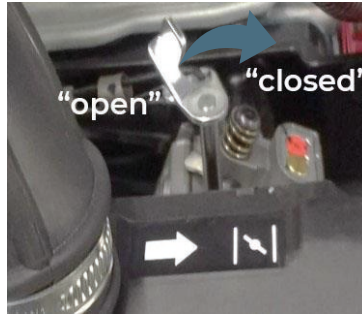
1.1. Check Fuel Tap Opening Valve (GAS TANK)

- Check that the fuel tap is in the "on" position. Position the tap in the "on" position.



1.2. Set the Choker

- In the cold start, move the choke lever in the direction indicated in the figure from “open” to the “close” position. When starting with the hot engine, pull the lever back to “open” position.



1.3. Position the Throttle Lever

- Position the throttle lever at minimum speed, as pointed out in the next photo. Sometimes you will have to place the throttle in 25% in order to start the machine;
- This prevents the compactor from starting “jumping” when it is started.

*CAUTION: if you start the machine with some accelerator positions “ahead” be aware it will start “jumping”.



1.4. Starting the Engine

- Slowly pull the recoil starter lever until you notice a resistance and then pull it a little harder and quickly for about 5 times. This will make the fuel low to the carburetor;
- Pull it the recoil starter until the engine starts. After the engine starts, put the choker back to the “open” position;

*Allow the engine to heat up for a few minutes before starting your work with the equipment.



2. GUIDING THE MACHINE IN COMPACTION WORK

2.1. Instruction on How to Guide the Machine

- Always compact at full speed;
- Always guide the machine in the horizontal direction, avoiding holes, objects and people;
- In compaction on terrain with a slight slope, always guide the compactor in the highest to the lowest direction;
- To stop the machine, slow down by pulling the accelerator back to the minimum speed.

* **In case of emergency, activate the emergency button, located on the Guide cable.**



Turning Off The Equipment

3. TURNING OFF THE EQUIPMENT

3.1. Instruction on how to Turn off the machine

- To stop the machine, slow down by pulling the accelerator/throttle back to the minimum POSITION;
- Close the fuel tank tap;
- Let the machine go off on its own because of lack of fuel;
- If the engine has a button place to the “off” position.

Float carburetor



Diafraghm carburetor

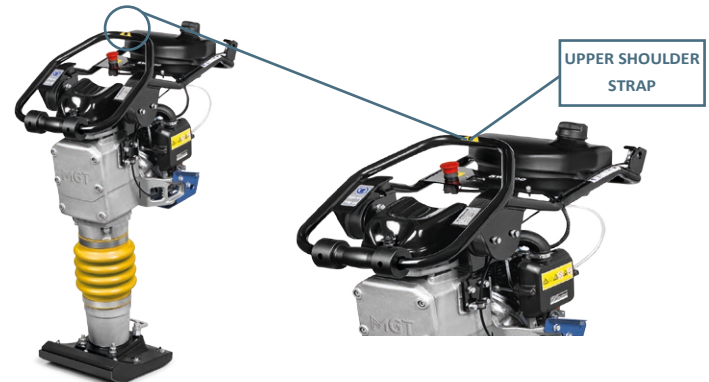


- This procedure, described above, is called SHUT OFF by engine stalling. This is recommended for periods in which the machine will not be used.
- This procedures prevents that any denser particle (gummed up gas or debris) descend from the fuel tank to the carburetor damaging it.

4. TRANSPORT

4.1. Where to Lift It Up?

- ALWAYS HOIST THE MACHINE BY THE UPPER SHOULDER STRAP LOCATED IN THE CABLE GUIDE BAR.



4.2. What Position Should I Let The Machine When In Transport?

- This rammer can be transported both vertically and horizontally;
- In the case of transporting the machine in the horizontal position it is necessary to transport it always over the TRANSPORT ROLLER (LOCATED IN THE CABLE GUIDE), as showed in the position of the FOLLOWING image



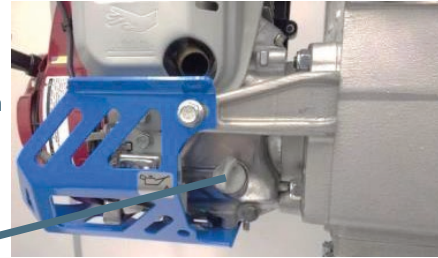
- Never carry the machine laid over the engine filter side or on the recoil robe. Always make the transport over the transport roller. This prevents the return of engine oil to the fuel filter producing short term damage to the filter and carburetor;

* Always close the FUEL TAP when transporting the rammer;

WARNING: The RAM 70H compactors with float carburetor can only be transported vertically.

5.1 OIL LEVEL CHECK

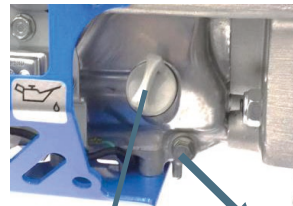
- Remove the oil level indicator and measure;
- The oil level must be between the minimum and maximum marks as showed in the following image.



5.2. ENGINE OIL EXCHANGE

OIL WITHDRAWAL

- Place a container (plastic jar) below the oildrainer of the machine;
- Remove the drain plug from the engine;
- Drain the oil while the engine is hot (just turned off) to ensure fast and complete drainage;
- When the engine is completely empty, replace the drain plug;



OIL LEVEL INDICATOR
DRAIN PLUG

OIL REPLACEMENT

- Pour the new oil by removing the oil level indicator and completing it with the amount of oil indicated in the page 12 of this manual;
- If you are using a different engine than the factory standard (Honda GXR 120) please refer to the manual's specific engine to check the quantities.

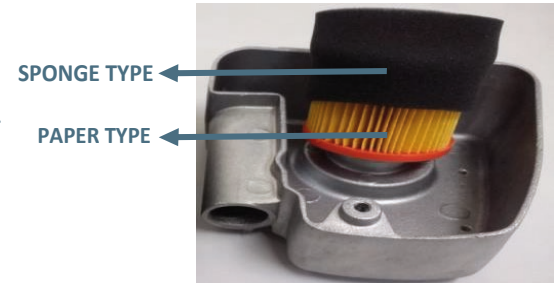
6. AIR FILTER CLEANING

6.1. Primary Air Filter

- Turn the knob (BUTTERFLY SCREW) and open the primary air filter cover;
- Remove the SPONGE TYPE Filter Element and wash it with soap and water;
- Remove the PAPER TYPE filter element and insert a compressed air jet from THE INSIDE OUT.

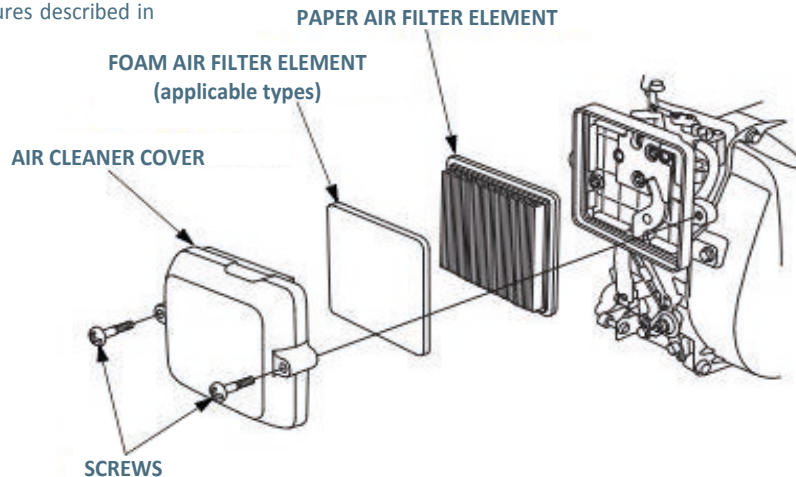
* WARNING

DO NOT WASH THE PAPER FILTER ELEMENT.



6.2 Engine's Air Filter Cleaning

- Remove the air filter cover from the engine;
- Carefully pull the filter elements, observe the mounting position in the following image;
- Follow the same cleaning/replacement procedures described in the machine's primary air filter.



Maintenance Table

MAINTENANCE PERIOD	PART	TASK
Every Use	Engine	Check the Oil Level
Every Use	Primary and Secondary Air Filter	Daily Cleaning in Dusty Places
Every Use	Shoe	Tightening Screws
After The First 10 and Every 50 Hours of Use	Engine	Oil Exchange
Every 50 Hours of Use	Engine	Fuel Filter
Every 100 Hours of Use	Engine	Spark Plug
Every 100 Hours of Use	Tamping System	Oil Exchange

Quantities X Rammer Part

PART	TYPE	QUANTITY
Engine Honda GXR 120	SAE 10W30	0,3 liters
Fuel Tank	Gasoline	3,6lt
Tamping System	SAE 20W50	1 liter

Hints on How to Guide the Machine



When in danger, push the emergency button.



BE AWARE OF OBJECTS, SLOPES AND PEOPLE. DON'T PUSH TOO HARD THE MACHINE.

When guiding the machine don't PUSH its forward jumping movement. Its design already provides an automatic balanced forward motion.



For better performance always compact in steps layers of maximum 30 cm.



Choose the right soil for the kind of machine. Rammers are not suitable to work over extreme hard finished soils like asphalt, sidewalks or pavers.

Always follow the instructions of the technical or engineer in the work field.



USE OBLIGATORY PROTECTIVE EQUIPMENT



FORWARD OPERATIONAL WAY

FRONT ← REAR

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, 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 electric 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 motor 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

Menegotti GROUP

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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