

WARRANTY



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The Menegotti power trowel has an original factory warranty for **6 months** from date of purchase.

The Menegotti warranty covers any defects originating from the manufacture or end quality of the products.

The following items are not covered by the Menegotti warranty:

1. Defect caused by abuse, improper operation or dropping of equipment.
2. Alterations to the original project and repairs performed by people not recommended by Menegotti.
3. Defects caused by sea or land transport.
4. Materials and costs for recovering or replacing items damaged by natural wear.

5. Motor.

6. Use of equipment with motor that is not specified in item 7 of this manual.

Menegotti, the technical service network, directors and employees will not be responsible for other defects, losses or expenses due to unqualified operation of the equipment.

Warranty Request

All warranty requests must be addressed to the representative or retailer where the equipment was purchased.

Only use original Menegotti spare parts for the safety of the operator, third parties and the equipment.

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DISTRIBUIDOR:

POWER TROWEL



Menegotti

1.1 Manufacturer Identity

Menegotti Indústrias Metalúrgicas Ltda. is part of the Menegotti Group, with headquarters in Jaraguá do Sul, SC, Brazil, and is the leading producer of concrete mixers, tools and equipment for civil construction.

1.2 Machine Identification

The Menegotti power trowels are designed for the most demanding work. The transmission mechanisms facilitate operation by demanding minimum human effort.

Note: With the objective of constantly improving its equipment, Menegotti reserves the right to alter product characteristics without prior notice.

1.3 Using the Manual

The manual must be read and understood before performing any operations. The manual contains useful information about the product, manufacturer, safety, spare parts, maintenance and conservation. Keep this manual handy so it can be consulted whenever necessary.

1.4 Safety indications

The below signs will appear next to points in the text that deserve special attention:



DANGER: The equipment can be at risk. The operator and equipment can be at risk if the procedures contained in this manual are not followed.



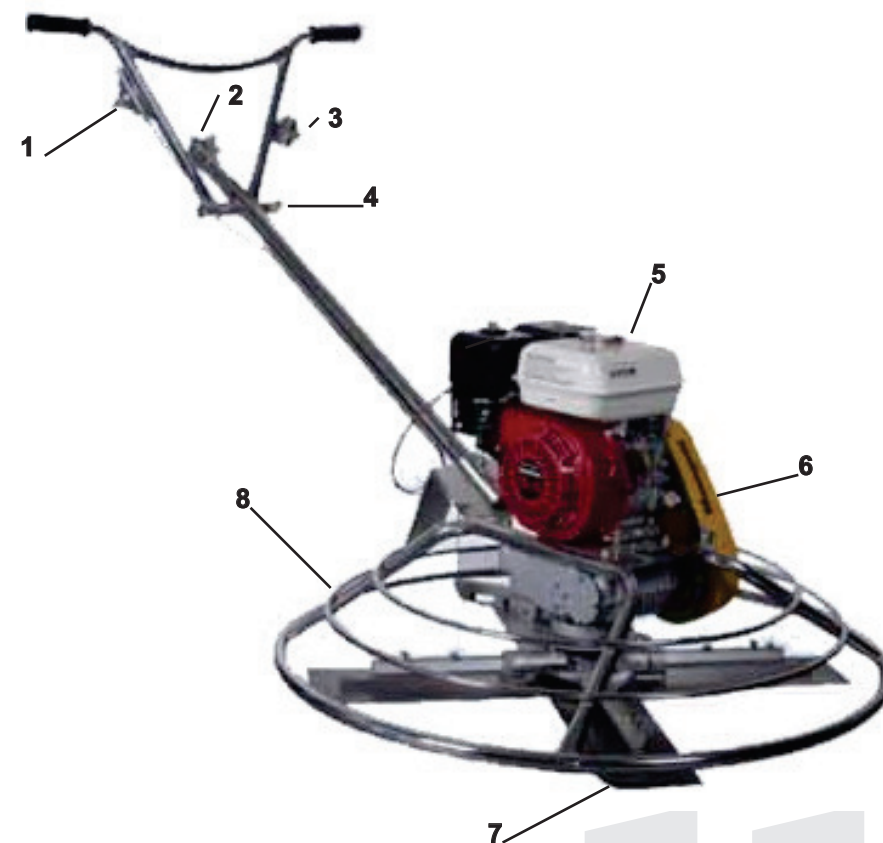
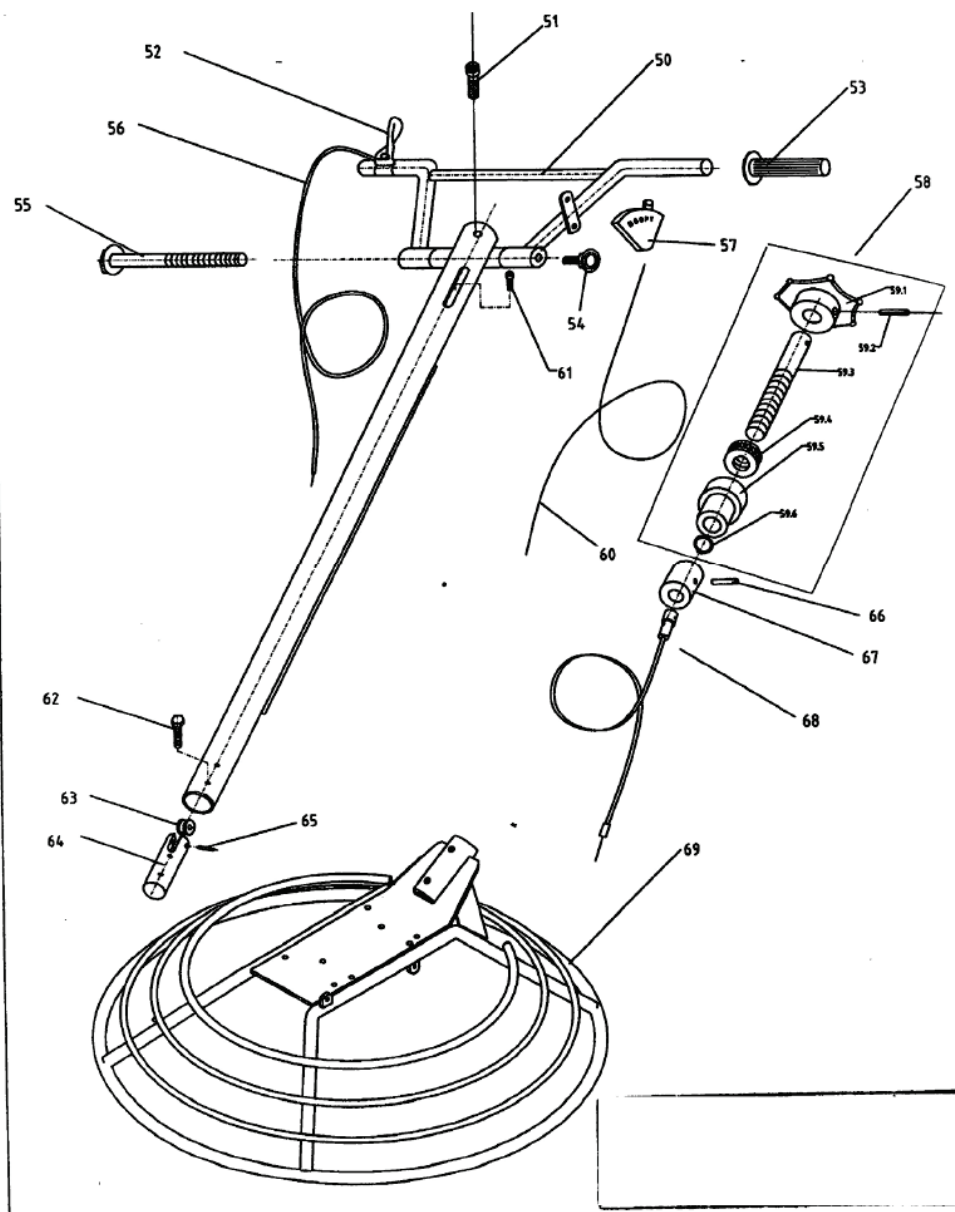
ATTENTION: The life of the operator can be at risk.

1.5 Responsibility

Menegotti is not responsible for any accident suffered by the operator/objects due to improper use of the equipment and/or failure to follow the procedures contained in this manual as well as malfunctioning and/or accidents with equipment not using the combustion motor specified for this product.

No.	Description	Qt.	No.	Description	Qt.
1	MOTOR GX 160	1	34	VKC 3525 BEARING	1
2	COTTER PIN	1	35	POSITIONING RING	1
3	CLUTCH ASSEMBLY	1	36	BLADE SUPPORT	1
3.1	M-8 * 12 BOLT	2	37/38.1	M-8 * 25 BOLT/ M-8 NUT	4
3.2	CLUTCH PLATE	1	39	Ø*40 HEADLESS BOLT	4
3.3	CLUTCH BLOCK	4	40.1/.2	M8 BOLT/ LOCK WASHER	8
3.4	PRING	1	41.1/.2	FIXER/BAR	4
3.5	CLUTCH COVER	1	42	ORING	4
3.6	BUSHING	1	43	LEVELER	4
3.7	6007 BEARING	1	44.1	WASHER	1
3.8	SHAFT	1	44.2	M-8 * 20 LOCK WASHER	1
4	WASHER	1	44.3	M-8 * 20 BOLT	1
5	M-8 * 25 BOLT	1	45	RUBBER RING	1
6.1/2	WASHER/LOCK WASHER	6	46	FINISHING BLADES	4
7	COVER	1	47	PULLEY	1
8	M-8*30 BOLT	6	48	BELT IN "V" A 29	1
9	M-10*1	1	49.1	BELT PROTECTION	1
10.1	M-6*25 BOLT	8	49.2/.3	SEAT	1
10.2	6 LOCK WASHER	8	50	KNOB	1
11	COVER LATCH	1	51	M6*8 BOLT	1
12	OIL SEALING RING	2	52	ACCELERATOR	1
13.1	8*35 BOLT	4	53	HAND GRIP	2
13.2	8 WASHER	4	54	M12 NUT	1
14	REDCTION BOX	1	55	M12*155 BOLT	1
15	FORK	1	56	ACCELERATOR CABLE	1
16	SHAFT	1	57	SAFETY LEVER	1
17	2*28 PIN	2	58	BLADE INCLINATION	1
18	ET 32204 BEARING	2		ADJUSTMENT ASSEMBLY.	1
19	COIL	1	59.1/.2	KNO/5*40 ROTATING PIN	1
20	5*5*32	1	59.3/.4	BOLT/NSK51103 BEARING	1
21	COIL SEAL	2	59.5	BEARING PROTECTION	1
22	COIL SEAL	1	59.6	16 LOCK WASHER	1
23	LID	1	60	SAFETY LEVER CABLE	1
24	M8* SELF-LOCKING BOL	2	61	M5*8 BOLT	1
25	*53 OIL SEALING RING	1	62	M10*30 BOLT	1
26	ET 32206 BEARING	2	63	WHEEL	1
27	CLUTCH	1	64	WHEEL ARM	1
29	8*7*40 COTTER PIN	1	65	8*40 SPRING	1
30	CLUTCH SHAFT	1	66	8*30 SPRING	1
31	8*7*45 COTTER PIN	1	67	PISTON	1
32	30*45*8 SEALING RING	1	68	BLADE ANGLE.	1
33	RING	1		ADJUSTMENT CABLE	1
			69	BLADE ASSEMBLY	1
				PROTECTION	1

2.1 Description of equipment

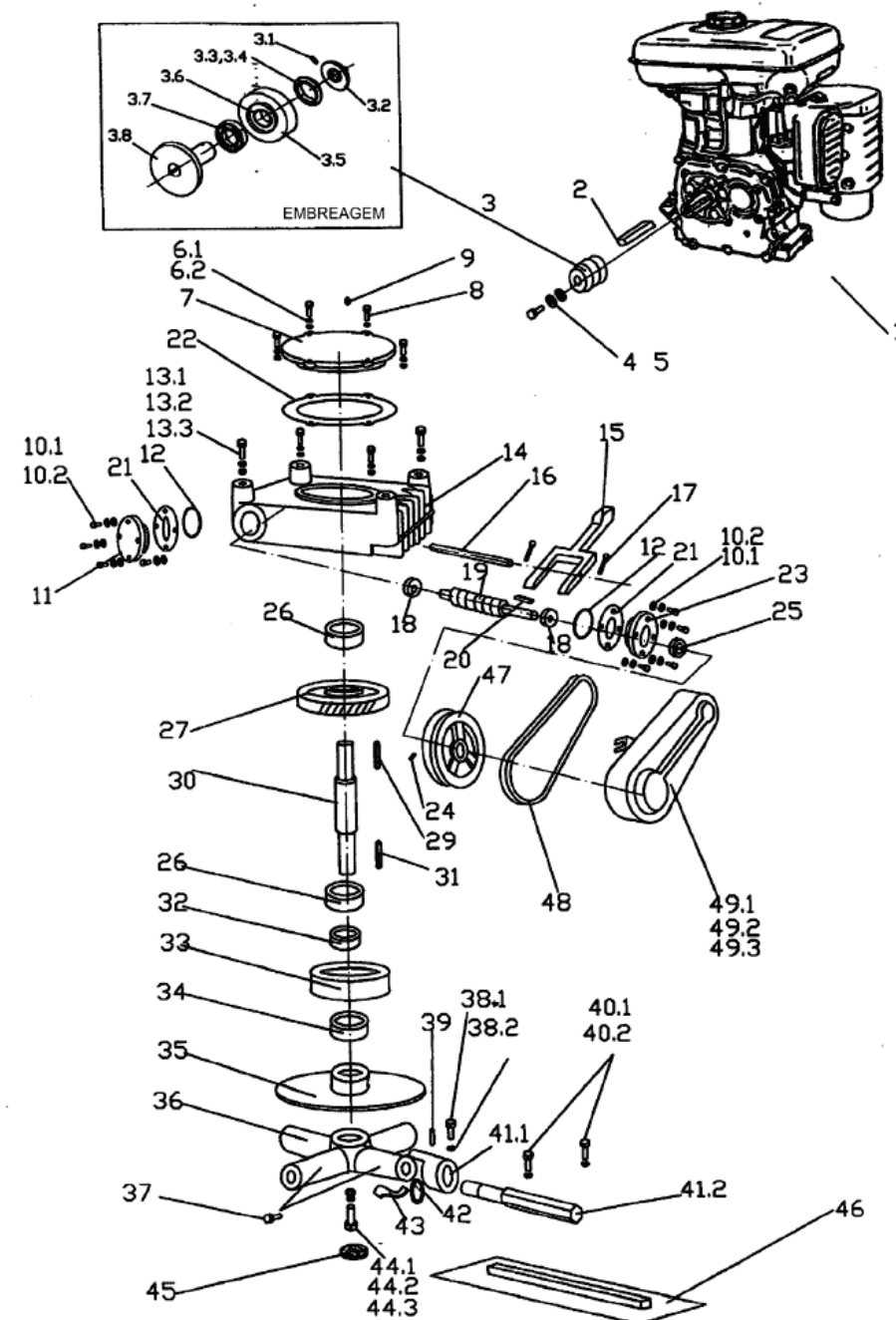


1. Accelerator: Controls motor and blade rotation speed.
2. Inclining knob: Controls blade inclination.
3. Centrifugal safety lever: Turns off equipment in case of emergency.
4. Screw: Adjusts handle height.
5. Motor: Moves power trowel blades.
6. Belt protection: Protects belt access.
7. Blade: Used for floor finishing. Single or combined blades can be used.
8. Safety guard: Protects operator / Prevents contact with blades.

Important: Due to alterations and improvements to equipment, the following illustrations may differ in relation to the equipment.

SAFETY

For the safety of operators and third parties, the manual must be read and understood. The operator is responsible for safe operation of the equipment.



- Before filling up with fuel, turn the motor off and wait for it to cool down.
- When filling up, do not smoke or allow unprotected flames near the location.
- When filling up, use a proper funnel and do not let the fuel come into contact with motor surface.
- If there is a fuel spillage scatter sand over the surface. If fuel comes into contact with the operator's clothing this must be changed immediately.
- Store fuel in the appropriate containers and keep away from hot objects or those which could cause fire risk.

PPE Personal protection equipment

Personal protection equipment (PPE) must be used by the operator. For example: safety goggles, gloves, ear plugs, mask and special shoes. Use appropriate work clothes for operating the equipment. Always protect skin from coming into contact with concrete.

Fuel

Do not swallow fuel or inhale its vapors and avoid contact with skin. In case of contact with skin, wash affected surface immediately. If fuel comes into contact with the operator's eyes, wash with an abundant quantity of water and seek medical help as soon as possible.

Exhaust Gases



Exhaust gases produced by this equipment are highly toxic and can cause risk of death.

Do not operate the vibratory plate in areas that are closed, confined or with little air circulation or air removal.

3. STARTING EQUIPMENT OPERATION

3.1 Initial inspection

The following initial inspection must be performed before starting to operate the equipment or after long hours of use. For more information see the service and maintenance section. If one of the following items should occur the error must be corrected before using the equipment.

1. Check for signs of defects in the equipment. Check that all safety guards are correctly positioned in their appropriate places.
2. Inspect hoses, openings, drains and other areas against leakage.
3. Check the oil level and fill up if necessary.
4. Check the fuel level and fill up if necessary. Always use clean fuel. The use of adulterated fuel can damage the feeding system.
5. Check that the air filter is clean. An excess of dust in the filter can prevent the motor from working in normal conditions. Clean the motor in accordance with the service and maintenance section.

6. SOLUÇÃO DE PROBLEMAS

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
1) Motor suddenly stops or will not turn on	A) Without fuel B) Motor switched off C) Dirty spark plug D) Cold motor E) Motor flooded	A) Remove fuel cap and fill tank B) Switch on motor C) Clean and replace spark plug cable D) Close choke E) Open choke, accelerate, pull start cord for motor to run.
2) Safety lever with disconnected cable		Reconnect cable
3) Power trowel is unstable	A) Insufficient oil in reducer B) Low motor rotation C) Motor with low rotation D) Too much accumulated cement E) Belts loose	A) Add oil B) Maintain high rotation C) Clean air filter D) Remove cement/concrete E) Tighten belts
4) Equipment - Motor turns on, but equipment doesn't work	A) Water in the clutch B) Low motor rotation C) Motor overloaded	A) Disassemble clutch B) Clean filter C) Check gears and springs.
5) Leaves marks on the concrete – swirls – skipped areas		
Should problems occur, see following steps:		
Central shaft		When the equipment skips, check the main shaft
Blade support arm		Check if there are any warped blades. If there are, replace them
Blades		A) Check if blade adjustment is in the same position B) The blades must be the same size and must be designed for the equipment. C) Damaged blades must not be used.

7. SPECIFICATIONS

MODELO	UNIT	AH-100
WEIGHT	Kg	78
DIMENSOES	mm	2.100x1000x700
BLADE SPEED	RPM	50x150
BLADE SIZE	mm	350x200
ÂNGULO		0-15°
NUMBER OF BLADES		4
MOTOR		GX 160 5,5CV 3600 RPM



Incorrect maintenance or use can result in risk to the operator. Read and understand this section before starting any maintenance, service or repair on the equipment.

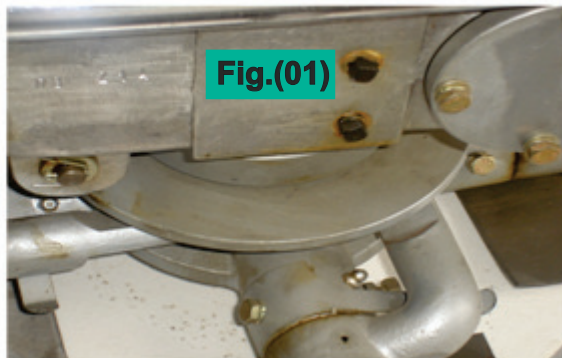
- ▶ This equipment can only be used for its intended application
- ▶ This equipment can only be used by trained operators
- ▶ The owners of this equipment must train personnel and recommend the safety instructions in accordance with local laws.
- ▶ Use appropriate equipment for lifting the product
- ▶ Keep people and animals away from the equipment while it is in use.
- ▶ Keep hands and feet away from the blades.
- ▶ Never allow people to be used as a weight for this equipment.
- ▶ Personal protection equipment (PPE) must be used by the operator when working the equipment.
- ▶ Before starting the equipment check how it is turned off.
- ▶ Always stop the motor before performing maintenance.
- ▶ During use the motor heats. Let it cool down before touching it.
- ▶ Never leave the equipment by itself when it is running.
- ▶ Never remove or alter the safety guards, as these play an important role in the safety of the operator. Always check the state of the equipment's safety guards. Should these be damaged or missing, do not use the equipment until these have been repaired or replaced.
- ▶ Do not operate the equipment in case of illness, when tired or under the influence of alcohol and/or medication.

This equipment was designed to eliminate any risk of accident. Nevertheless risk will always exist and can cause accidents and even death if not properly used. If the operator finds himself in a dangerous situation the equipment must be turned off immediately and the supervisor or person responsible must take measures to eliminate these risks. The manufacturer must be informed of any event of risk or accident with the equipment.



Combustible and inflammable. Can cause risk to operator. Turn off motor, eliminate any risk of fire and do not smoke while filling up the fuel tank. Always clean up any fuel spillage.

Maintenance Routine	After operation	Daily	After use	After 50 hours operation	When necessary	After 200 hours operation
Visual inspection of all equipment	X					
Check motor oil	X					
Change motor oil				X		
Clean air filter					X	
Inspect belts	X					
Tighten belts					X	
Clean equipment			X			
Lubricate arms				X		
Change reducer oil				X		X



Check oil level pic (01) and substitute (SAE 75-90) it, capacity 500ml

5. STORAGE

For long periods of storage, start motor with the fuel valve in closed position. The chemical composition of the fuel will deteriorate after long periods of storage. When the equipment is stored for a long period remove all fuel from the tank. Also remove the fuel from the carburetor hub through the drain. Remove all cement accumulated in the equipment. Clean the blades and the blade protector. Apply a fine film of oil to prevent rust. Cover the equipment and store in a dry place. The handle can be uncoupled for easy storage. Remove the bolts and pull the handle from its housing.

3.2 SWITCH ON/OFF PROCEDURE

! Incorrect operation can result in risks. Read and understand this section before using the equipment.

1. Check blade appearance and if they are correctly fixed.

2. Check if the blades are free from obstacles and if the area is clear to operate the equipment.

3. Perform a visual inspection of the power trowel. Check that all bolts are well tightened and that the mechanical components are in perfect working order.

3.2.1 Before starting the motor

4. Check the oil level in the tank. Maintain oil level according to motor manufacturer specifications. If the oil is dirty or needs to be changed follow the motor manufacturer instruction manual.

5. Check the fuel tank. Consult manufacturer's manual

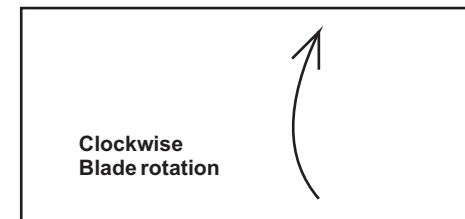
3.3 OPERATING THE POWER TROWEL

Check if the blades are obstacle free.

3.3.1 Moving the power trowel

Stand at the rear of the equipment, just behind the handle, and accelerate the equipment till reaching the desired rotation.

The power trowel blades rotate in a clockwise direction (figure 1). All Menegotti power trowels are designed for right and left operation. This can be achieved by applying slight upward or downward pressure on the handle of the equipment.



- ▶ Pull the handle downwards and the equipment will move to the right.
- ▶ Pull the handle upwards and the equipment will move to the left.
- ▶ Rotate the handle to the right and the equipment will move forward.
- ▶ Rotate the handle to the left and the equipment will move backward.
- ▶ When holding the handle in the original position the equipment will remain in stationary.

3.4 Preparing the concrete surface

Use an adequate machine or equipment for leveling the surface before proceeding to troweling. Remember that finishing equipment does not recover uneven floors.

3.5 Pre-finishing operation

Before beginning the pre-finishing operation, make sure the disk is correctly fitted into the finishing blades.

Blade rotation will be clockwise, therefore the floor must be marked in the same way.

The floor will be ready for the finishing operation when the sole of the shoe leaves a 2~3mm deep foot print.

In other pre-finishing operations the blades must be planned.

After pre-finishing and the marks are slightly visible the finishing operation can be performed.

The duration of each operation will depend on the climate. After each operation the motor must be turned off.

Never leave the equipment with the motor on, especially during the pre-finishing operation when the concrete is still wet.

Considering the weight of the equipment, it must not be used in the same position when the floor is still wet, as it can be damaged.

3.6 Finishing operation

On completing the pre-finishing operation, remove the disk from the finishing blades and clean the blades, the blade arms and the protection for removal of concrete accumulated during operation. Increase blade angle by 10 mm to start finishing operation and after continue increasing the angle for the following operations.

Continue the finishing operation until obtaining the final desired quality. The time of each step in the finishing operation depends on the climate, the cement and water content in the cement composition. In the case of the concrete drying in some areas of the floor, the operator can wet the floor with the help of a brush to guarantee finishing quality. Be careful when using the equipment in areas with water accumulation as this can cause slipping. Maintain control of the equipment at all times.

3.7 Blade adjustment

The knob that adjusts the blade angle is easy for the operator to access and operate. Blade angle adjustment is limited. To incline the blades turn the knob clockwise and anti-clockwise to set them. Adjustment depends on the finish quality desired.

3.8 Blade support arm

The main problem with the blade support arm is lack of lubrication. During assembly, a reasonable amount of grease is placed on the blade support arm. Lubrication must be performed weekly through the grease fittings located in the blade support arms. If an arm is not moving properly, it must be replaced due to being bent.

4. SERVICE AND MAINTENANCE

The Menegotti power trowels are developed to last for many years. It is important that the maintenance suggested in this manual is carefully followed. It is important that any type of maintenance is conducted by a Menegotti authorized reseller. Always use Menegotti original spare parts to avoid loss of warranty. Before performing any type of maintenance switch off the motor and disconnect the cable from motor spark plug. Always read oil level with equipment placed on a flat surface. Only use recommended oils.

4.1 Cleaning

Clean the equipment after use to prevent the concrete from accumulating and setting on the power trowel structure. The blades can be cleaned with high pressure water when the cement is still wet. Set cement is very difficult to remove. Replace damaged adhesives immediately.

4.2 Changing blades

Check that the spark plug cable is disconnected before starting to change the blades. Make sure the equipment is positioned on a flat surface and adjust the knob to set the angle of the blades so as they are flat on the ground.



Take care when changing the used blades for new ones. The used blades become very sharp on the edges, similar to a knife. As a precaution use gloves when changing the used blades.

Remove the bolts and lock washers from each blade support arm and remove the blades. Before proceeding with changing the blades clean the entire arm surface. Check that the edge of the trowel blade is positioned just behind the blade support arm. Place the bolts and lock washers in each arm and tighten.

4.3 Belt

Remove the protection from the belts and check the tension by exerting light pressure on them. The belt should not slacken more than 10mm ~15mm. If the belt needs adjusting remove the four motor screws until adjustment can be performed. Adjust the motor screw clockwise to tighten the belts and anti-clockwise to loosen the belts. Once adjustment has been performed re-tighten the motor screws. Then replace the protection to ensure its rigidity.