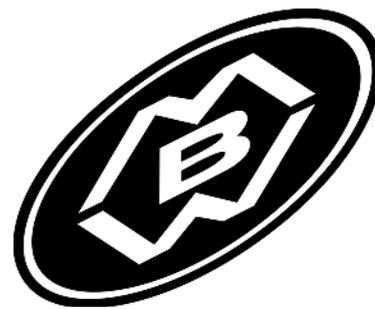


# OPERATOR'S SAFETY AND SERVICE MANUAL



## F30

This manual covers the following serial numbers  
and higher for each model listed:

F30.....1460000



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Thank you for purchasing a MBW Trowel.

This handbook contains operating and maintenance instructions of the Moskito Edging Trowel, model C4-75.

Please keep it in a safe place. You may need to refer to it at a later date.

Follow these instructions carefully in order to become familiar with the trowel and to avoid problems caused by improper use.

To conform to the safety procedures it is recommended that the operator wears safety devices such as safety shoes, soundproof devices, safety helmet and heavy duty leather working gloves.

The manufacturer reserves the right to change the contents of the handbook to improve the quality of the trowel without notice.

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## 1. INTRODUCTION

The machine described in this instruction and maintenance manual is a patented mini trowel provided with a free wheel for floating and finishing concrete, epoxy floors and sub floors.

The trowel is equipped with 4 blades.

The power is transmitted from a gasoline engine through a centrifugal clutch connected by a V-belt with the gearbox.

**It is recommended not to use the trowel for any other purpose than for what it is designed for, unless you have a written authorisation from BARIKELL. In case of disposal of the machine it is necessary to respect the local environmental law.**

## 2. TECHNICAL DETAILS

DESCRIPTION	Unit Measure	C4-75/B B&S. V. 85432	C4-75/H HONDA GX120	C4-75/H1 HONDA GX160
Overall dimensions	mm	750 x 1490 x 910	750 x 1490 x 910	750 x 1490 x 910
Shipping dimensions	mm	1000 x 1020 x 790	1000 x 1020 x 790	1000 x 1020 x 790
Operating weight	Kg	56,6	53,5	55,5
Shipping weight	Kg	74	71	73
Disc diameter	mm	750	750	750
Number of blades	Nr	4	4	4
Gearbox oil	Type	SHELL TIVELA COMPOUNDS A or similar type - 0,3lt.		
Engine	Type	Gasoline	Gasoline	Gasoline
Power	Kw / HP	2,94 (4HP)	2,94 (4HP)	4,04 (5,5HP)
Engine Speed	RPM	3600	3600	3600
Cooling		AIR	AIR	AIR
Starting	Type	Recoil starter	Recoil starter	Recoil starter
Machine speed	RPM	90	90	90
Blade speed	RPM	minimum - maximum 70 - 125		
Tank capacity	LT	3	2,5	3,6

Tests have been undertaken to determine noise and vibration levels and to evaluate the effect on the operator. The results are.

<b>Noise and vibration levels in working condition</b>		
Average acoustic pressure	dbA	88,8
Average acoustic power	dbA	103,2
Acoustic pressure on operator	dbA	89,1
<b>Value of vibration</b>		
Vibration value on the handle	aw	7,0

### 3. GENERAL INSTRUCTIONS

#### 3.1 Power to the trowel

The power must be supplied to the trowel as described in the BARIKELL handbook. For safety keep the following points in mind:

- The engine is an air-cooled gasoline engine.  
The trowel can be equipped with different types of engines as indicated in the technical details. The engine is started by rope start. The fuel is gasoline, and is conveyed from the tank to the carburettor after flowing through a filter.
- The rotation of the blades is transmitted from the engine to a centrifugal clutch, connected by a V-belt to the gearbox of the rotor.

#### 3.2 Safety precautions for the operator

**To avoid slipping and loss of control of the trowel, when starting the engine, the operator must always maintain good footing. Be sure to maintain control at all times, to avoid possible damage or operator injury.**

Never start any maintenance or repair while the engine is still running or hot. Be sure the spark plug is disconnected.

**Be careful when changing old blades for new. Due to the way the blades wear, the old blades become sharp like razor blades. Always wear heavy duty working gloves during this operation and pay special attention to the position of the blades.**

**Keep hands and feet away from rotating parts and make sure all safety protection is in place.**

**When finishing concrete above ground level or on floors with holes larger than 20x20cm, barriers should be installed as a protective measure. The barrier should be such that it will stop the trowel from riding over the edge of the slab in case of loss of control.**

Make sure that nobody stands near the trowel when operating. To avoid unexpected contact with the rotating parts it is recommended to keep a minimum distance of 2 meters from the operator and the trowel.

Before every working day check the trowel thoroughly, and pay special attention for loose bolts and nuts. Be sure that the deadman switches on the trowel are working correctly.

**Never lift the trowel by the rotating ring; use the lifting handle provided on the trowel.**

Use the trowel always on a flat level surface.

Do not wear untied clothes, bracelets or other flying objects during the working cycle.

Always wear protective devices such as gloves, safety helmet, safety shoes and others which conform to the safety regulations.

**Exhaust fumes are harmful. Always operate in well illuminated and ventilated areas.**

**Never refuel while the engine is still running or hot. The hot muffler can cause severe burns and ignite spilled fuel or cause an explosion. Refuel in well ventilated areas away from naked flame.**

Be sure the gasoline is as recommended in the engine instruction book.

When operation of the machine necessitates walking backwards, ensure that there are no obstacles in the walking area.

Do not allow minors or untrained people to operate the trowel and keep them away from the working area.

Store the trowel in a dry place away from rain and other atmospheric influences.

**Be careful when running the trowel on areas where water has been applied because the trowel will tend to skate away. Maintain full control at all times.**

**When working on the floor with a trowel, be sure it is done in a safe way. Make sure there are no obstacles such as manholes or drain ducts on the floor slab, which can block the rotation of the blades.**

## **4. STARTING THE TROWEL**

### **4.1 Assembly**

The trowel is delivered in a box completely assembled with the trowel arm folded.

Take the trowel out of the box and place it on a flat level surface to check it.

Contact our dealer in case of damage.

Unfold the handle and fasten the locking knob.

Dispose of the packing in accordance with the standards which are in force in your country.

When moving the trowel from one job site to another use a lifting device, connect hoist hook with hoisting device.

**Never lift the trowel by the rotating ring.**

### **4.2 Before starting**

Before starting the trowel check the following:

- Check engine oil level and refill if necessary. (Refer to engine manual).
- Check gasoline level and fill if necessary with clean gasoline, using a funnel and a filter.  
The tank capacity is indicated in section 2.
- Be sure there is no water in the gasoline and do not use a mixture or gasoil. Always refuel in well ventilated areas away from naked flame.
- To have full control of the trowel the blades must be tilted by 1 cm. The pitch is controlled by the hand knob. When working with the floating disc the blades must be in flat position.
- To avoid jerky movements and loss of control of the trowel, the operator must always maintain good footing.
- Check if the deadman switches are working properly. It is necessary to start the trowel as described in next section and release both deadman switches to check their functions.
- During this operation the operator must hold the handle of the trowel firmly, because if one of the deadman switches does not function, the operator could lose control of the trowel.  
This procedure must be done before each start.

### 4.3 Starting the trowel

When the trowel is ready to function, proceed with following:

- Mount the floating disc underneath the blades as indicated in section 6.2. (Changing floating disc).
- Hold the handle of the trowel firmly during the work and at least one deadman switch in closed position.
- Position the throttle at a minimum position.
- Pull the starter rope or recoil starter. Once the engine is started move the choke to full open position.
- After starting the engine at low speed the rotor does not rotate yet. The centrifugal clutch starts to engage at 1500 rpm. Accelerate slowly and bring the engine to a speed of over 2500 rpm.

**IMPORTANT:** Before stopping the engine always put the throttle lever at a minimum speed.

### 4.4 Using the trowel

Guiding the trowel on the slab is very simple. Get into operator's position behind the centre of the handle and attain a good footing and start the trowel.

- Push handle down slightly and the trowel will move to the right.
- Lift handle up slightly and the trowel will move to the left.
- Push forward and the trowel will move forward.
- Pull backward and the trowel will move backward.
- Holding the handle in neutral position the trowel will remain stationary.

**It is recommended to hold the handle of the trowel firmly during the work.**

### 4.5 Stopping the trowel

To stop the engine put the 2 deadman levers in full open position. Close the fuel valve. The deadman switches are connected with 2 micro switches which stops ignition to the spark plugs. In an emergency or loss of control of the machine, release these levers immediately.

## 5. GENERAL USE

### 5.1 Preparation of concrete surface

Use a mechanical or air vibrating screeding machine to "strike" the concrete surface to level. This will provide good compaction to the slab and produce an ideal surface for finishing. It should be remembered floating/finishing machines will not repair or correct a poorly screeded slab.

### 5.2. Floating operation

Before starting the floating operation, be sure the floating disc is correctly mounted underneath the blades.

The slab will be ready to work for the first floating operation when the heel of the shoes leaves a print of 2-3mm on the surface of the slab. During the floating operation the floating disc may not turn on the surface; if so this may be collected cement paste between the blades and the floating disc. If necessary clean the trowel as indicated in the next sections. After the floated slab has set and a footprint is slightly visible, it is ready to start the finishing operation. The timing of all these operations is dependent on weather conditions/ambient air temperature. On average the trowel will take about 10 minutes to float 20 - 30sq. metres.

After each operation the engine should be stopped. Never park the trowel with the engine running, especially during the floating operation when the concrete is relatively soft. The trowel should not run on the soft concrete in same spot, this could cause damage to the finished floor tolerances, producing dips or hollows.

**Never lift the trowel by the rotating ring; use the hoist hook or handle provided on the trowel.  
Never leave the floating disc attached to the trowel when it is lifting more than 100cm. The floating disc could fall off.**

### 5.3 Finishing operation

After the floating operation the first thing to do is to remove the floating disc from the blades, and clean the blades, spider plate and attaching blade disc of cement paste collected during the floating operation. Increase the blade pitch up to a maximum of 1 cm for the first finishing operation and then continue to increase the pitch on the following finishing operations. Continue the finishing passes until you obtain the desired floor finish. The time required between each finishing pass is again dependent on the weather conditions and water content of the concrete etc. If some areas of the concrete set / harden too fast you may apply a small amount of water using a hand brush as an aid to achieving the finish.

**Be careful when running the trowel on areas where water has been applied because the trowel will tend to skate away. Be sure to maintain full control at all times.**

### 5.4 Machine cleaning

Clean the trowel after it has been used to prevent the collection of hardened cement, which is very difficult to remove. It can be removed with an old paint brush or hand brush. After cleaning it is recommended to coat blades, blade arms and protection ring with stripping oil (do not use flammable oil), this will aid cleaning after the machine is used. Avoid spillage of oil on any rubber parts like V-belts etc.

### 5.5. Moving the trowel

When transporting the trowel on a truck, always keep the handle folded and the blades flat in order not to damage the blade pitch control system.  
Always keep the floating disc underneath the blades, to protect them against damage.

## 6. MAINTENANCE

**Before starting any maintenance or repair be sure that the spark plug is disconnected. Make sure the trowel is clean before starting any maintenance. Always wear heavy duty working gloves during the maintenance operation and pay special attention to the position of the blades. In case of problems contact our technical assistance.**

Refer to engine manual for refuelling and engine oil change.

## 6.1 General maintenance

The trowel does not need any particular maintenance, however it is necessary to keep following instructions in mind:

- Clean the trowel at the end of every working day of cement paste collected during the work.
- Undertake the necessary repair; in case of doubts contact our technical assistance or a qualified technician.
- After daily cleaning is done attach the floating disc to the trowel to protect the blades during transport.

### DAILY CHECK

- Clean air filter, especially after use in severe conditions; refer to engine manual for cleaning instructions.
- Check engine oil level.
- Check blades for wear.
- Tighten blade bolts and replace if necessary.
- Check deadman switches for proper use.

### WEEKLY CHECK

- Check V-belts for wear and tension.
- Check clutch for wear.
- Clean spark plug. Refer to engine manual for replacement.

During assembly we completely grease and seal the gearbox, however if the trowel gets oily there may be a leak somewhere. Clean the trowel thoroughly and look for the leak, it may come from the engine or the gearbox, if so contact our technical assistance or a qualified technician.

If the grease in the gearbox has to be changed or filled up use **SHELL TIVELA COMPOUNDS A** or similar type.

## 6.2 Changing floating disc

After the trowel has been cleaned of any cement paste collected during the work, take out the floating disc of the fastening points.

Before mounting the disc ensure the blades and the floating disc are clean from any cement paste.

Put the floating disc on flat level surface and be sure the blades are in a horizontal position.

Place the trowel over the disc, so that the finishing blades are pushed in to the two (2) square lugs on the floating disc.

## 6.3 Changing blades

Check if the blades are bent or worn.

Follow instructions below to change the blades:

- Clean the blades of hardened cement paste collected during the work.
- Remove bolts and lock washers on each trowel arm.
- Mount new blades and check all bolts and washers; replace if necessary and fasten securely.
- Tighten bolts on blades every day.
- If blades show different wear patterns, replace all the blades for better performance of the trowel.

## 6.4 Changing V-belts

Undertake the following steps to change the V-belts:

- Clean the trowel of any cement paste collected during the work.
- Take the belt guard off by untightening the bolts of each side of the belt guard.
- Replace the V-belts with same size and brand. This is very important, there they might be a difference between one brand and another.

**Once the power trowel guarantee has expired, the machines should be subjected to a complete check-up once a year. You can address to all our authorized dealers all around the world.**  
**one.**

## 7. TROUBLESHOOTING AND REPAIR

Before any maintenance or repair be sure the power to the engine is turned off. It is recommended to effect only the operations described in previous sections. For all other repairs contact our technical assistance.

TROUBLE SHOOTING	CAUSE	REMEDY
The rotor does not turns as fast as it should	V-belt slack or worn out	Replace V-belt
Trowel does not work properly	1.) Blades excessively worn 2.) Floating disc not evenly attached to the blades	1.) Replace blades 2.) Check if there is any hardened cement on spider plate or blades and attach properly
Trowel leaves swirls on concrete	1.) Hardened cement paste on blades or disc 2.) Blades or disc worn out or bent	1.) Clean blades or disc of cement paste 2.) Change blades or disc
Vibration on the trowel	Loose bolts or nuts on engine or other parts of the trowel	Check for loose bolts or nuts and tighten if necessary
Trowel jumps on the floor	1.) Trowel arm bent 2.) Blades out of adjustment or bent	1.) Replace trowel arm 2.) Adjust blades and replace bent blades
Pitch control does not work	1.) Trowel arm bent 2.) Hardened cement on spider plate 3.) Handle knob dirty or jammed 4.) Yoke arm broken	1.) Replace bent arm 2.) Clean spider plate of hardened cement 3.) Clean handle knob 4.) Replace yoke arm
Engine won't start	1.) No gasoline 2.) No power to plugs and wires  3.) Throttle fully open 4.) Deadman switch broken or disconnected wire 5.) No oil in engine	1.) Fill up tank 2.) Check spark plugs and wires 3.) Close throttle 4.) Replace deadman switch or connect wire 5.) Fill with oil
Deadman off trowel won't stop	1.) Loose wires 2.) Micro-switch burnt out	1.) Connect wires 2.) Replace micro-switch

## 8. WARRANTY

New machines sold by the Company are covered by warranty with regard to the structure and the use of proper materials under following terms:

- 1) The warranty is valid for twelve (12) months.
- 2) The manufacturer undertakes to repair or replace at its discretion those parts or assemblies which it deems to be defective.
- 3) Parts repaired or replaced are covered by the same warranty as original parts, which expires twelve (12) months after installation.
- 4) The manufacturer reserves an adequate period of time to carry out the necessary work and for the delivery of the spare parts.
- 5) Transport costs of replacement parts covered by warranty will be charged to the purchaser.
- 6) This warranty expires if the product is repaired other than by authorised staff during the warranty period.
- 7) Replaced parts during the warranty belong to the manufacturer.
- 8) Any components furnished by the Company but manufactured by others are warranted to the extent of the original manufacturer's warranty to the Company. Any claims will be handed over to the buyer.
- 9) This guarantee is for the sole benefit of the original buyer. Our responsibility under this guarantee ends in case:
  - a) The buyer transfers ownership of the trowel;
  - b) Makes any changes in the trowel;
  - c) Or adds parts or devices not of our manufacture to the trowel.
- 10) MBW will not be responsible for damage to floors which might arise from improper use of the machine, or for any other reason that the machine is stopped during the working cycle.
- 11) This warranty does not cover any damages arising from an excessive stress, for instance when the machine operates after the occurrence of a defect, or from improper use or maintenance, use of improper materials and failure to comply with the instructions for use. The same is valid for damage caused by normal wear and tear.
- 12) The manufacturer shall have no liability for any difficulties arising in re-selling or using abroad due to provisions for the protection of patent rights in force in the country where the machine is sold.
- 13) With regard to engines, the terms of warranty of the original manufacturer are valid.

<p><b>Important to buyer: Always keep this guarantee as a reference and give model number, serial number and/or engine number when writing regarding your trowel. It will greatly facilitate rapid service.</b></p>
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## 9. MARKING AND CERTIFICATE

The models described in this instruction and maintenance manual have been checked to conform to the machine directives CEE 89/392 including the successive modifications.

The qualification is issued on the CE-label on the machine and on the declaration of conformity which goes together with this handbook.

Libretto uso e manutenzione	Frattazzatrice moskito alimentazione benzina	PAGINA 2
Data Gennaio 2004	Rev 0/2004	

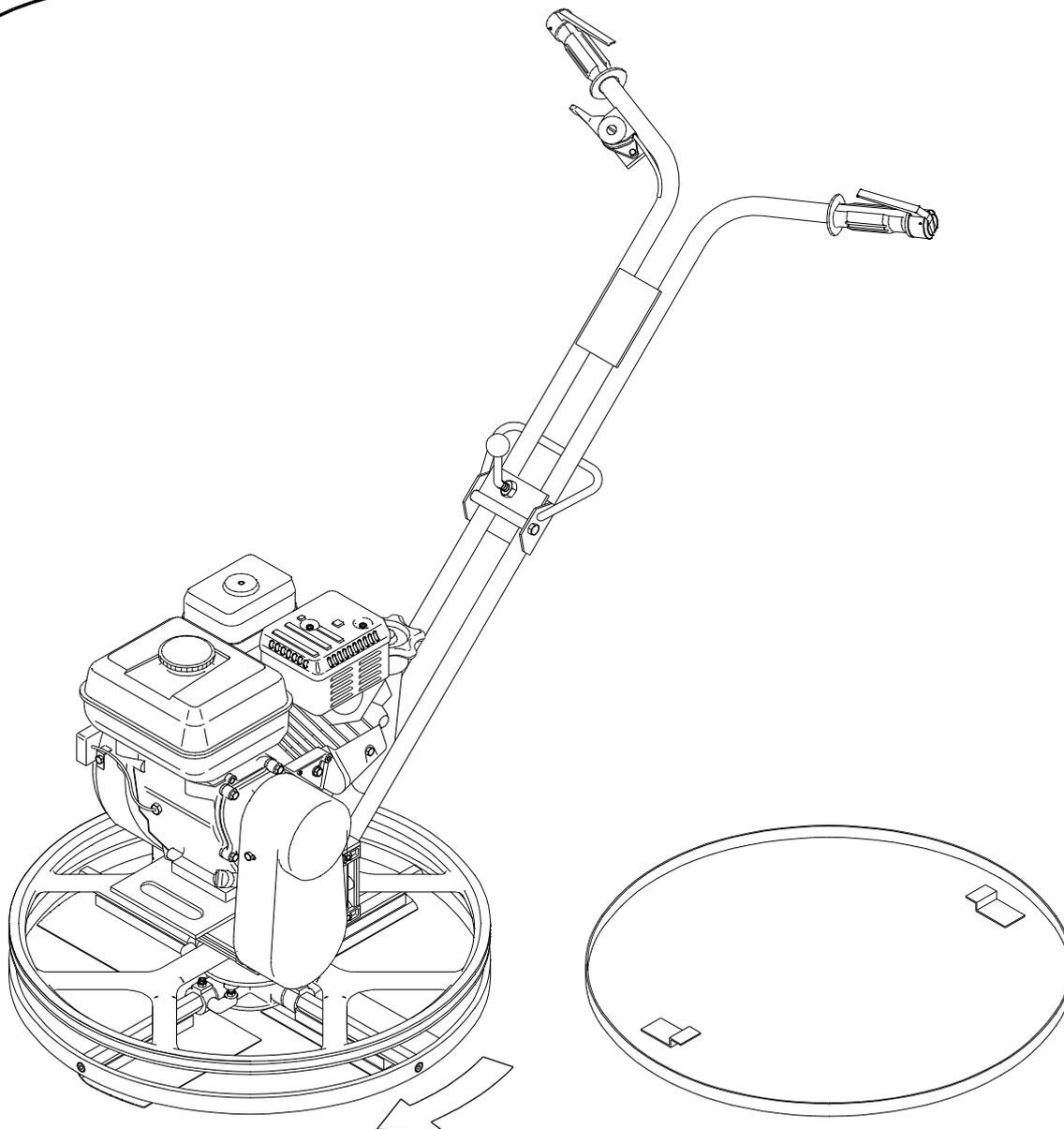


# Barikell

Costruzione Frattazzatrici  
Libretto uso e manutenzione

FRATTAZZATRICE "MOSKITO 4-75"  
POWER TROWEL "MOSKITO 4-75"

Modelli/Code : 3050-3055-3058-3065

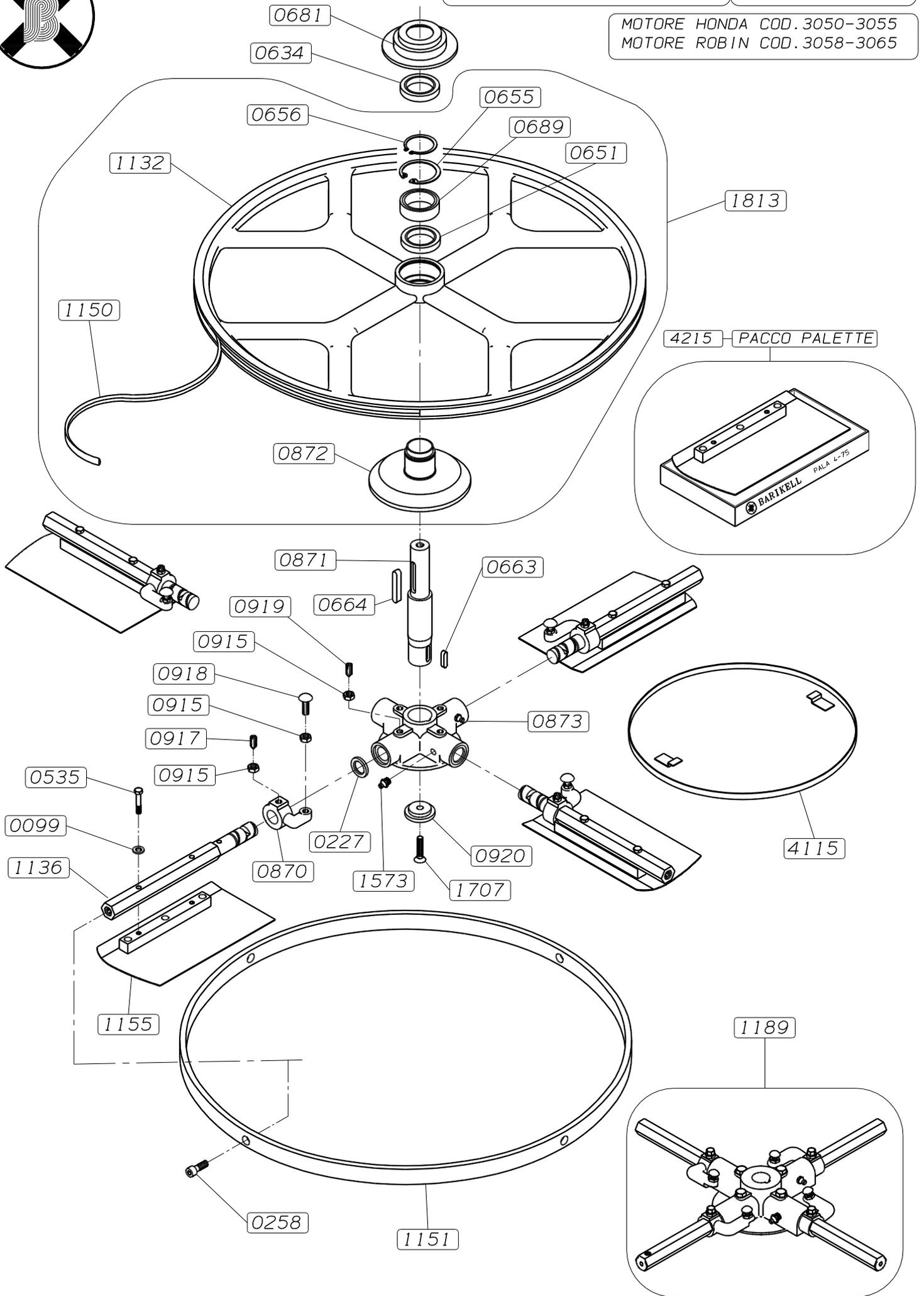






# MOSKITO 4-75 TAVOLA B

MOTORE HONDA COD. 3050-3055  
MOTORE ROBIN COD. 3058-3065





# MOSKITO 4-75 TAVOLA C

MOTORE HONDA COD. 3050-3055  
MOTORE ROBIN COD. 3058-3065

1389 - SPUGNA F. ARIA - MOTORE HONDA GX120 4HP

1390 - SPUGNA F. ARIA - MOTORE HONDA GX160 5.5HP

1395 - CANDELA - MOTORE HONDA GX120 4HP

1395 - CANDELA - MOTORE HONDA GX160 5.5HP

1960 - CANDELA - MOTORE ROBIN EY15 3.5HP

1960 - CANDELA - MOTORE ROBIN EY20 5HP

1960 - CANDELA - MOTORE ROBIN EX17 6HP

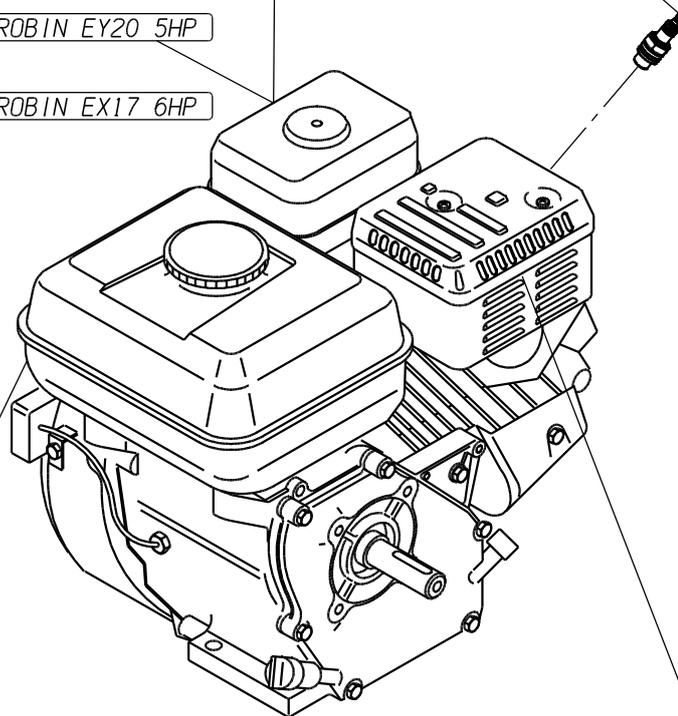
1386 - FILTRO ARIA - MOTORE HONDA GX120 4HP

1389 - FILTRO ARIA - MOTORE HONDA GX160 5.5HP

1947 - FILTRO ARIA - MOTORE ROBIN EY15 3.5HP  
CON SPUGNA

1948 - FILTRO ARIA - MOTORE ROBIN EY20 5HP  
CON SPUGNA

1949 - FILTRO ARIA - MOTORE ROBIN EX17 6HP  
CON SPUGNA



1384 - AVVIATORE AUTOAVVOLG. - MOTORE HONDA GX120 4HP

1384 - AVVIATORE AUTOAVVOLG. - MOTORE HONDA GX160 5.5HP

1956 - AVVIATORE AUTOAVVOLG. - MOTORE ROBIN EY15 3.5HP

1957 - AVVIATORE AUTOAVVOLG. - MOTORE ROBIN EY20 5HP

1958 - AVVIATORE AUTOAVVOLG. - MOTORE ROBIN EX17 6HP

0226 - MARMITTA - MOTORE HONDA GX120 4HP

0227 - MARMITTA - MOTORE HONDA GX160 5.5HP

1951 - MARMITTA - MOTORE ROBIN EY15 3.5HP

1952 - MARMITTA - MOTORE ROBIN EY20 5HP

1953 - MARMITTA - MOTORE ROBIN EX17 6HP