

OPERATOR'S SAFETY AND SERVICE MANUAL



PORT-A-TROWEL

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

PORT-A-TROWEL PT30H.....G05-00250



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Use this guide along with the parts lists attached to locate and identify components of your trowel. When ordering replacement parts, be sure to provide the model number and serial number from the trowel.

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Foreword

Quality assurance / machine break in

The machine is the product of extensive engineering development designed to give long life and unmatched performance. The PORT-A-TROWEL is shipped fully assembled, and only requires filling with fuel and a brief check of lubricant levels in preparation for operation.

You can help ensure that your trowel will perform at top levels by observing a simple routing on first use. Consider that your new trowel is like a new car. Just as you would break in a new car to the road or any new machine to the job, you should start gradually and build up to full use. Learn what your machine can do and how it will respond. Refer to the engine manufacturer's manual for run-in times. Full throttle and control may be used after this time period, as allowed by material. This will serve to further break in the machine on your specific application, as well as provide you with additional practice using the machine.

We thank you for the confidence you have placed in us by purchasing a MBW PORT-A-TROWEL machine and wish you many years of satisfied use.

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Operation

1 Use

The PORT-A-TROWEL reproduces the action of hand troweling while giving a higher quality dense finish with greater wear resistance. The angle or pitch of the blades is adjustable during operation from a floating position, with the blades completely flat, to a finishing position with the blades tilted. The following figure shows the location of the controls and main operating functions for the PORT-A-TROWEL.

2 Safety precautions

- ❖ Always keep unauthorized, inexperienced, untrained people away from this machine.
- ❖ Rotating and moving parts will cause injury if contacted. Make sure guards are in place. Keep hands and feet away from moving parts.
- ❖ Fuel the machine only when the engine is stopped, using all necessary safety precautions.
- ❖ The engine must always be stopped before attempting any repair or adjustments. Ignition switch should be off.
- ❖ To avoid slipping and loss of control when starting the trowel, the operator should maintain good footing. It is recommended that the operator wear safety shoes for added protection.
- ❖ Be careful when working around pipes or ducts protruding from the floor or slab edges. If the trowel blades hit such obstacles, damage to the machine or possible operator injury may result.
- ❖ When starting the machine, do not exceed 1/3 throttle position. A higher setting may cause the centrifugal clutch to engage and the handle to rotate.
- ❖ Be careful not to come in contact with the muffler when the engine is hot, serious burns may result!
- ❖ Over time, the blades will form a sharp edge. Be careful when handling the old blades.



Never operate the machine in an explosive atmosphere, near combustible materials or where ventilation does not clear exhaust fumes. Repair fuel leaks immediately. Refer to your engine owner's manual for more safety instructions.

3 BEFORE OPERATION

The following items should be checked on a daily basis before operating the trowel.

- Engine oil level
- Blade condition and pitch control operation
- Stop Switch operation

CONNECTING THE HANDLES

Only 1.8m Clip Together Handles can be used with the PORT-A-TROWEL (Other handles do not fit)



1. Turn the locking knob to loosen the control block clamp from the PORT-A-TROWEL handle connection adaptor, slide the control block upwards and remove from the handle.



2. With the control block removed from the PORT-A-TROWEL slide the orange painted end of the clip together handle through the control block. Slide the control block so that is sitting approx.. half way along the handle (900mm from either end) – Tighten the control block into this position with the locking knob.



3. With the control block now locked halfway along the handle push the silver end of the handle with the push button locking pin into the PORT-A-TROWEL handle and secure into position

4 OPERATION (Floating)

It is recommended that during floating, blades be kept in a flat position with the trowel working at $\frac{1}{2}$ to $\frac{3}{4}$ of the full speed, and each pass should overlap the previous by half the width of the trowel. A second trowel pass may be required for the desired finish. Crossover floating is recommended for this pass with blade pitch at a slightly higher level and trowel at about $\frac{3}{4}$ of the full speed. After the floated slab has set sufficiently it is ready for the finishing operation.



CAUTION:

Do not let the machine stand in one spot on the soft cement. Lift from the slab when the floating operation is complete.

5 OPERATION (Finishing)

Subject the desired concrete surface finish, the operator should adjust the blade pitch based on the hardness or plasticity of the concrete surface. When the concrete is wet or plastic, begin with the blades lying flat or at a small angle on the surface. When the concrete has sufficiently hardened, increase the blade pitch and keep it at a level corresponding to the concrete hardness and the desired finish. Check the obtained finish and adjust blade pitch as necessary. As a rule, the greater the blade pitch, the smoother the finish. However, excessive blade pitch will cause the blades to wear rapidly.

To fill a hole or cut down a hump, move the unit back and forth over the hole or hump. More passes may be needed for the desired surface finish.

6 STARTING THE ENGINE

1. Move the Throttle Control Lever to "MIN" position.
2. Move the Stop Switch to "ON" position.
3. Place the Choke Lever in the "CLOSED" position.
4. When starting cold or after prolonged use without prior operation press the fuel prime bulb three times.
5. Grasp the start grip and slowly pull the rope towards you. When hard resistance is felt, pull the starter grip briskly and smoothly to start the engine.
6. If the engine starts, return the Choke Lever to "OPEN" position; If the engine is not started, repeat step 5
7. Run the engine for a few minutes to make sure the machine is in normal working condition.
8. To start troweling, push the Throttle Control Lever towards "MAX" position.

7 MANOEUVRING THE TROWEL

1. To move the trowel back and forth push the handle outwards and then drag back toward you in the same way you would operate a bullfloat.
2. To move the trowel from left to right, gently twist the handle from left to right using a slow and gentle motion, the tilt steer function operates in the same way as a bullfloat transferring weight from the back to the front of the trowel.

8 FUNCTION AND CONTROLS

1. The PORT-A-TROWEL reproduces the action of hand troweling while giving a higher quality dense finish with greater wear resistance. The angle or pitch of the blades is adjustable during operation from a floating position, with the blades completely flat, to a finishing position with the blades tilted. The following figure shows the location of the controls and main operating functions for the PORT-A-TROWEL.
2. Guard Ring – NEVER put hands or feet inside the guard ring while the engine is running, Never operate the PORT-A-TROWEL with a damaged guard ring or with the guard ring removed.
3. Blade Pitch Control – Turn the hand knob clockwise to increase blade pitch, and counter-clockwise to decrease blade pitch.
4. Engine – Honda GX35 (1.5hp) petrol engine.
5. ON / OFF Switch – On / off switch located on the handle for easy access
6. Handle – The PORT-A-TROWEL handle is made up of multiple 1800mm clip together handles joined together to achieve the required external reach of the PORT-A-TROWEL subject to each specific job – The maximum number of 1800mm handles that can be joined together is three – Extending the length beyond three handles will result in reduced control of the unit.
7. Throttle Control Lever – Controls the speed of engine. Push the lever downwards to increase engine speed, upwards to decrease engine speed.
8. Gearbox – Transfers power from engine to the spider assembly for blade rotation. Ensure concrete is not allowed to build up on the gearbox and that the gearbox is cleaned after each use. Build-up of concrete may cause the gearbox to overheat

9. Spider Plate & Trowel Arm – Provides blade rotation and pitch. Always clean and lubricate the spider plate and blades arms after each use, spider plates and blades arms that are not cleaned and maintained will result in uneven blade wear and machine wobble that may impact the final finish of the concrete surface
10. Combination blades – Allows for both floating and finishing of the concrete. Gloves should always be worn when replacing or handling blades as worn blades will have a sharp edge.

Maintenance

1 Preventative maintenance and routine service plan.

- ENSURE repairs and maintenance of the trowelling machine is performed by qualified personnel.
- CAUTION: Make sure the engine is shut down and cool enough before performing repairs and maintenance.
- For preventive maintenance of the engine, please refer to the Owner's Manual of the Honda engine.

The following schedule should be followed when performing regular maintenance of the trowel:

DAILY (8 – 10 HOURS)

Check the oil level in the engine crankcase before each use, refill as necessary.
Keep the trowel clean and free of concrete residue after each use.

WEEKLY (50 – 60 HOURS)

Check and clean or replace engine air filter as necessary.
Check blades for their condition and adjust or replace if necessary.
Relubricate trowel arms, thrust collars and pitch mechanism.

MONTHLY (200 – 300 HOURS)

Remove, clean, reinstall and relubricate the trowel arms and thrust collars.
Check and adjust the trowel arms for alignment

Labels

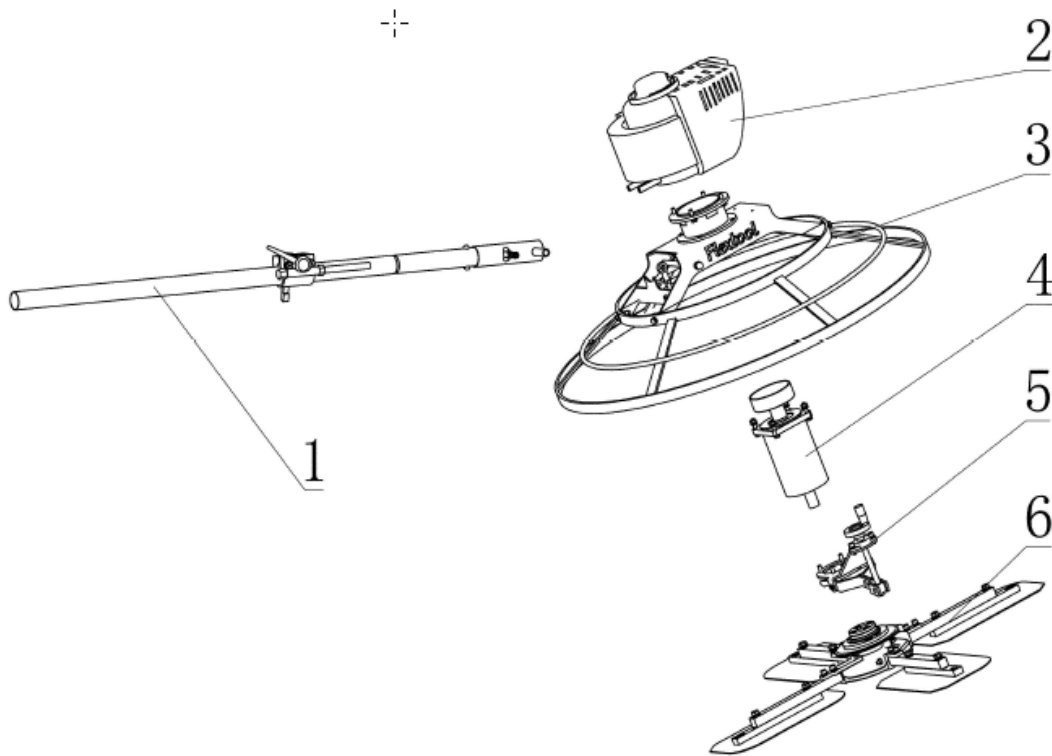
SAFETY PRECAUTIONS	
	<p style="text-align: center;"> DANGER</p> <p>EXPLOSION HAZARD Never operate the machine in an explosive atmosphere, near combustible materials or where ventilation does not clear exhaust fumes.</p>
	<p style="text-align: center;">WARNING</p> <p>BURN HAZARD Never come into contact with the engine or muffler when engine is operating or shortly after it is turned off. Serious burns may occur.</p>
	<p style="text-align: center;"> CAUTION</p> <p>ROTATING HAZARD Never place hands or feet inside safety guard rings. Serious injury will result from contact with rotating blades.</p>
	<p style="text-align: center;"> CAUTION</p> <p>MOVING PARTS Before starting the machine ensure that all guards and safety devices are in place and functioning properly.</p>
	<p style="text-align: center;"> ATTENTION</p> <p>READ OWNERS MANUAL Read and understand operator's manual before using this machine. Failure to follow operating instructions could result in serious injury or death.</p>

Specifications

1 Technical data sheet

Model	Trowel diameter (mm)	Operating weight (kg)	Number of blades	Speed range (RPM)	Blade pitch max (deg)	Engine	Engine model	Max rated power (Hp)	Fuel type	Shipping dimensions (LxWxH) (mm)	Shipping weight (Kg)
PT75H	750	20	4	40-70	25	Honda	GX35	1.5Hp	Petrol	775 x 775 x 480	25

2 Parts



Item No	Description	Part Number	Qty
1	FLX PORT-A-TROWEL HANDLE ASSY	MBW/000056	1
2	FLX ENGINE HONDA GX35	HONGX35NST	1
3	FLX PORT-A-TROWEL GUARD RING ASSY	PT300100	1
4	FLX PORT-A-TROWEL GEARBOX ASSY	PT300101	1
5	FLX PORT-A-TROWEL PITCH CONTROL ASSY	PT300102	1
6	FLX PORT-A-TROWEL SPIDER ASSY	PT300103	1

WARRANTY

WHAT DOES THIS WARRANTY COVER? MBW warrants each New Machine against defects in material and workmanship for a period of twelve (12) months. "New Machine" means a machine shipped directly from MBW or authorized MBW dealer to the end user. This warranty commences on the first day the machine is sold, assigned to a rental fleet, or otherwise put to first use.

MBW warrants each Demonstration Machine against defects in material and workmanship for a period of six (6) months. "Demonstration Machine" means a machine used by MBW or its agents for promotional purposes. This warranty commences on the first day the machine is sold, assigned to a rental fleet, or otherwise put to first use.

This warranty covers the labor cost for replacement or repair of parts, components, or equipment on New Machines or Demonstration Machines, and MBW shall pay labor costs at MBW's prevailing rate to affect the warranted repair or replacement. MBW reserves the right to adjust labor claims on a claim-by-claim basis.

This warranty covers the shipping cost of replacement parts, components, or equipment via common ground carriers from MBW to an authorized MBW dealer. Air freight is considered only in cases where ground transportation is not practical.

MAY THIS WARRANTY BE TRANSFERRED? This warranty is non-transferable and only applies to the original end user of a new machine or demonstration machine.

WHAT DOES THIS WARRANTY NOT COVER?

1. This warranty does not cover any Used Equipment. "Used Equipment" means any MBW machine or equipment that is not a New Machine or a Demonstration Machine. All Used Equipment is sold **AS IS/WHERE IS WITH ALL FAULTS**.

2. This warranty does not cover any New Machine, Demonstration Machine, or their equipment, parts, or components altered or modified in any way without MBW's prior written consent. This warranty does not cover the use of parts not specifically approved by MBW for use on MBW products. This warranty does not cover misuse, neglect, shipping damage, accidents, acts of God, the operation of any New Machine or Demonstration Machine in any way other than recommended by MBW in accordance with its specifications, or any other circumstances beyond MBW's control. This warranty does not cover any New Machine or Demonstration Machine repaired by anyone other than MBW factory branches or authorized MBW distributors.

3. This warranty does not cover, and MBW affirmatively disclaims, liability for any damage or injury resulting directly or indirectly from design, materials, or operation of a New Machine or Demonstration Machine or any other MBW product. MBW's liability with respect to any breach of warranty shall be limited to the provisions of this document and in no event shall exceed an amount equal to the purchase price of the New Machine or Demonstration Machine purchased from MBW.

4. This warranty does not cover engines, motors, and other assemblies or components produced by other manufacturers and used on a New Machine or Demonstration Machine, as said engines, motors, and other assemblies or components may have warranties provided by the manufacturer thereof. This warranty does not apply to consumable items, such as v-belts, filters, trowel and screed blades, seals, shock mounts, batteries, and the like, all of which are sold **AS IS/WHERE IS WITH ALL FAULTS**.

5. This warranty does not cover the cost of transportation and other expenses which may be connected with warranty service but not specifically mentioned herein.

6. This warranty does not cover any updates to any New Machine, Demonstration Machine, or any other MBW product. MBW reserves the right to improve or make product changes without incurring any obligation to update, refit, or install the same on New Machines or Demonstration Machines previously sold.

WHAT WILL MBW DO? MBW's obligation under this warranty is limited to the replacement or repair of parts for a New Machine or Demonstration Machine at MBW factory branches or at authorized MBW distributors, and such replacement or repair is the exclusive remedy provided hereunder. Labor must be performed at an authorized MBW distributor. MBW reserves the right to inspect and render a final decision on each warranty case, and MBW's repair or replacement is solely within the discretion of MBW.

IT IS EXPRESSLY AGREED THAT THIS SHALL BE THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. UNDER NO CIRCUMSTANCES SHALL MBW BE LIABLE FOR ANY COSTS, LOSS, EXPENSE, DAMAGES, SPECIAL DAMAGES, INCIDENTAL DAMAGES, OR PUNITIVE DAMAGES ARISING DIRECTLY OR INDIRECTLY FROM THE USE OF THE NEW MACHINE OR DEMONSTRATION MACHINE WHETHER BASED UPON WARRANTY, CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY.

THE FOREGOING WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR USE, AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER OBLIGATIONS OR LIABILITY ON MBW'S PART. MBW NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME ON BEHALF OF MBW ANY OTHER LIABILITY OR WARRANTY IN CONNECTION WITH THE SALE OR SERVICE OF ANY NEW MACHINE, DEMONSTRATION MACHINE, OR ANY OTHER MBW PRODUCT.

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EC Declaration Of Conformity

We : **MBW Europe Limited**

Of : **Units 2 & 3 Cochrane Street, Bolton BL3 6BN United Kingdom**

Hereby declare under sole responsibility that :

Product : **MBW PORTATROWEL**
Model : **PT75H**
Serial number(s) : **2043700 and above**

Is in conformity with the applicable requirements of the following harmonized standards :

2006/42/EC Machinery Directive

2000/14/EC Noise Directive

2001/95/EC General Product Safety Directive

2002/95/EC Reduction of Hazardous Waste Directive LVD2014/35/EU Low Voltage Directive

2004/30/EU Electromagnetic Compatibility

The undersigned declares, on behalf of MBW Europe Limited that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications.

**EN 349.2008:A1:2008 EN 12100:2010 EN12649:2008+A1:2011
EN ISO 5349-2:2001 +A1:2015**

The unit complies with all the applicable essential Health and Safety Requirements of the directive.

Name : **Greig Sandiford**

Position : **Managing Director**

Date : **01/10/2021**

Signature :



ABOUT MBW



The story began when two men with extensive experience in mechanical vibration and soil compaction started a business in an unheated contractor's shed in the winter of 1967 in Slinger, Wisconsin USA

From these humble beginnings, we have broadened our product line to include a variety of compaction and concrete construction equipment along with quick customer support and service.

MBW is not a copyist – we do not duplicate designs developed by others. MBW begins each new engineering project with the assumption that significant progress can be made in terms of improved productivity, reduced maintenance, longer life, enhanced user safety or lower long-term cost of ownership.

Often, MBW's R&D efforts result in entirely fresh approaches to solving industry problems. Many of our products have pushed the productivity envelope to new heights. Some MBW products afford their operators the industry's safest tools in a given product class. Most MBW products solve long standing maintenance issues and extend product life expectations. Our goal is to provide equipment users with products of significant, tangible, comparative value... reasons to invest in MBW products.



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