

**OPERATION MANUAL****BM-1046H**

Your Model # : \_\_\_\_\_

Your Serial # : \_\_\_\_\_

**BOMAX** sincerely thanks you for selecting the Ride-on Power Trowel. For your safety and proper operation, before you start to operate or carry out any maintenance on this equipment, **YOU MUST READ** and **STUDY** this manual carefully. Be sure to always keep it ready for reference.

## SAFETY ALERT & HAZARD SYMBOLS

For your safety and the safety of OTHERS! Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the Safety Messages and Operation could result in injury to yourself or others.

### **NOTE**

*This Owner's Manual has been developed to provide complete instructions for the safe and efficient operation of BOMAX Ride-on Power Trowel. Please refer to the engine manufacturers instructions for related safe operation and maintenance of the engine.*

***Before using this equipment, ensure that the operator has read and fully understands all instructions in this manual.***

### SAFETY ALERT SYMBOLS

The following safety alert symbols will inform you about potential hazards that could injure you or others. They represent the level of exposure to the operator, and are preceded by one of three words: **DANGER**, **WARNING**, or **CAUTION**.



**DANGER:** You **WILL** be **KILLED** or **SERIOUSLY** injured if you **DO NOT** follow directions.



**WARNING:** You **CAN** be **KILLED** or **SERIOUSLY** injured if you **DO NOT** follow directions.



**CAUTION:** You **CAN** be injured if you **DO NOT** follow directions.

Potential hazards associated with Pro-Series Trowel operation will be referenced with "**Hazard Symbols**" which appear throughout this manual, and will be referenced in conjunction with "**Safety Alert Symbols**".

### HAZARD SYMBOLS



Lethal Exhaust Fumes




Engine exhaust fumes contain poisonous carbon monoxide. This fume is colorless and odorless, and can cause death if inhaled. **NEVER** operate this equipment in a confined area or enclosed structure that does not provide ample free flow air.

 Explosive Fuel




Gasoline is extremely flammable, and its vapors can cause an explosion if ignited. **DO NOT** start the engine near spilled fuel or combustible fluids. **DO NOT** fill the fuel tank while the engine is running or hot. **DO NOT** overfill tank, since spilled fuel could ignite if it comes into contact with hot engine parts or sparks from the ignition system. Store fuel in approved containers, in well ventilated areas and away from sparks and flames. **NEVER** use fuel as a cleaning agent.

 Burn Hazards



Engine components can generate extreme heat. To prevent burns, **DO NOT** touch these areas while the engine is running or immediately after operations. **NEVER** operate the engine with heat shields or heat guards removed.

 Rotating Parts



**NEVER** operate equipment with covers, or guards removed. Keep **fingers, hands, hair** and **clothing** away from all moving parts to prevent injury.

 Accidental Starting



**ALWAYS** place the engine ON/OFF switch in the **"OFF"** position when the equipment is not in use.


 Over Speed Conditions



**NEVER** tamper with the factory settings of the engine governor or settings. Personal injury and damage to the engine or equipment can result if operating in speed ranges above maximum allowable.


**NOTE**

*This **equipment**, other property, or the surrounding environment could be damaged if you do not follow instructions.*

 Respiratory Hazard



**ALWAYS** wear approved respiratory protection.

 Sight and Hearing Hazard



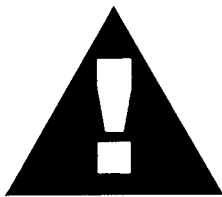
**ALWAYS** wear approved eye and hearing protection.

 Equipment Damage Messages

Other important messages are provided throughout this manual to help prevent damage to your equipment, other property, or the surrounding environment.

## SAFETY MESSAGES

### CAUTION:




For your own personal safety and those around you, **YOU MUST READ** and ensure you **FULLY UNDERSTAND** the following safety information. It is the responsibility of the operator to ensure that he/she fully understands how to operate this equipment safely. In the event you are unsure about the safe and correct use of the Power Trowel, please consult your supervisor or nearest *BOMAX* dealer.




The following safety guidelines should always be used when operating the Ride-on Power Trowel.

### CAUTION:




**IMPROPER** maintenance or use can be hazardous. **READ** and **FULLY UNDERSTAND** this section before you perform any maintenance, service or repairs.

- This equipment is to be used for its intended application only.
- This equipment must be operated only by well-trained personnel.
- The owner of this equipment must observe, and train the operator of the equipment to observe the effective Labor Protection Regulation in the country of application.
- Use a suitable lifting equipment to lift the equipment.
- Cordon off the work area and keep members of the public and unauthorized personnel at a safe distance, including animals.
- Keep **FINGERS, HANDS, HAIR** and **CLOTHING** away from moving parts. 
- Never allow a person to act as a weight for this equipment.

- Personal Protective Equipment (PPE) must be worn by the operator whenever this equipment is being used.
- Make sure you know how to safely switch this equipment **OFF** before you switch it **ON** in case you get into difficulty.
- Always switch **OFF** the engine before servicing it. 
- During use, the engine becomes very hot. Allow the engine to cool before touching it 
- Never leave the engine running and unattended.
  - Never remove or tamper with any guards fitted, they are there for your protection. Always check guards for condition and security. If any are damaged or missing, **DO NOT USE THE EQUIPMENT** until the guard has been replaced or repaired.
- Do not operate the machine when you are ill, feeling tired, or when under the influence of alcohol or drugs. 
- This equipment is designed to eliminate the possible risks arising from the use of it. However, risks **DO** reside, and these risks are not clearly foreseeable, and may cause personal injury or property damage, even possible death. If such unpredictable and unforeseeable risks become apparent, the equipment must be stopped immediately, and operator or his supervisor must take appropriate measures to eliminate such risks. It is sometimes necessary to inform the manufacturer of such event for future counter measuring.

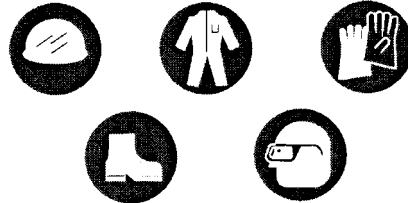
**WARNING:**

Fuel is highly flammable. It may cause injury, death or property damage. **SHUT DOWN** the engine, extinguish all open flames and **DO NOT** smoke while filling the fuel tank. **ALWAYS** wipe up any spilled fuel.

- Before refueling, switch off the engine and allow it to cool.
- When refueling, **DO NOT** smoke or allow naked flames in the area. 
- When refueling, use proper funnel, and avoid spilling over the engine.
- Spilt fuel must be made safe immediately, using sand. If fuel is spilt on your clothes, change them.
- Store fuel in an approved, purpose made container away from heat and ignition source.

PPE (Personal Protective Equipment)

Suitable PPE must be worn when using this equipment i.e. Safety Goggles, Gloves, Ear Defenders, Dust Mask and Steel Toe capped footwear (with anti-slip soles for added protection). Wear clothing suitable for the work you are doing. Always protect skin from contact with concrete.



## FUEL

Do not ingest fuel or inhale fuel vapors and avoid contact with your skin. Wash fuel splashes immediately. If you get fuel in your eyes, irrigate with copious amounts of water and seek medical attention as soon as possible.

## EXHAUST FUMES

### WARNING:



The exhaust fumes produced by the engine are **HIGHLY** toxic and **CAN KILL!**



Do not operate your Power Trowel indoors or in a confined space, make sure the work area is adequately ventilated.

## GENERAL SAFETY GUIDELINES

Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be used by qualified and trained personnel only. This equipment should not be operated by persons under 18 years of age.

Always use proper heavy lifting techniques when moving equipment.

Always make sure that machine is kept in proper operating condition.

Always have throttle position at idle while starting engine.

Always check to make sure that operating area is clear before starting engine.

Always test safety equipment including the safety engine kill mechanisms before operating equipment.

Never place feet on or inside the guard ring while starting the engine.

Never operate this equipment without proper protective clothing including footwear.

Always keep clear of rotating parts when operating.

Never operate with belt guard or any other guards removed.

Never leave machine unattended while running.

Never refuel while engine is running or while engine is hot.

Always refuel in a well ventilated area, away from sparks and open flames.

Never smoke while refueling.

Exhaust fumes are lethal! Operate machine in a well ventilated area, away from places where fumes can accumulate.

## **SAFETY INFORMATION**

### **FOLLOW ALL SAFETY INSTRUCTION**

Read All safety instructions carefully. Safety instructions will be found throughout this manual and on the machine. Keep all safety information in good, readable condition. If needed, replacement safety information is available.

Proper machine operation includes training for operators. Operators should be versed on machine safety and operation. Never allow a person who is not properly trained to operate this equipment.

Keep this machine in proper working condition. This includes keeping all safety decals on the machine clean and visible.

Do not modify this machine. Doing so may cause improper operation and may not be safe. This may also reduce machine life. Modifying this machine in any way will void the warranty.

### **OPERATE MACHINE SAFETY**

Always be aware of the operational area of your machine. Operators need to be careful to keep bystanders and nearby objects at a safe distance from the machine. Never let someone who is untrained operate this machine.

Study the operational area carefully. Remove all dangerous objects from the finishing area. (i.e. protruding rebar or wood). Do not attempt to use the machine where operation appears to be dangerous.

Never operate machinery when tired or ill. Operators must be alert and always looking for possible signs of danger or misuse of machinery.

### **PERSONAL PROTECTIVE EQUIPMENT**

Always wear proper clothing while operating this equipment.

### **MAINTENANCE SAFETY**

#### **Cautions! Disconnect spark plug wires before attempting service.**

Before attempting maintenance on this machinery, know the procedure and have the correct tools. Always make sure that machine is stopped and the spark plug wires and battery are disconnected before attempting service.

Keep machinery in proper running condition. Make sure that there is no buildup of concrete, grease, oil or debris. Keep all parts properly installed. Fix damage immediately and always replace worn or broken parts.

Dispose of potentially hazardous waste properly. Examples of potentially hazardous waste are: motor oil, fuel and filters. Use rigid containers for trapping these items. Do not use old food or beverage containers, someone may be misled. Do not pour waste oil or fuel directly onto the ground, down a drain or into any water source.

Inquire what the proper disposal procedures are for waste fuel and oil in your local area.

## Assembly

BM1046H ride-on trowel assembly and testing in the factory. Only need install 2 side cover protect ring see following photo



## Before Starting

1. Read and follow the engine operation manual before running.
2. Add fuel and water into the tank.
3. Connect the battery wire.



3. Add the oil to engine according to the engine manual. And check the gear-box oil level.
4. Check hydraulic oil level
5. Check air filter



6. Check the stop panel working property.
7. If need use UBS charge

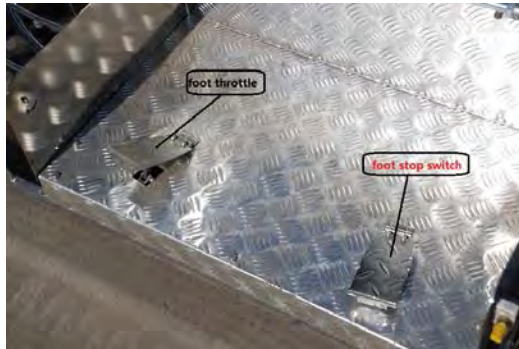




## Operation

### Starting

1. put left feet on stop switch panel( left the foot will stop the engine)  
Turn the key and starting the engine



2. After idle speed running 30 seconds to warm up the engine.
3. Trample the throttle with right feet to increase the engine speed several times, the check the hydraulic oil pressure.

**Caution: Hydraulic oil pressure setup 2.6MPA**



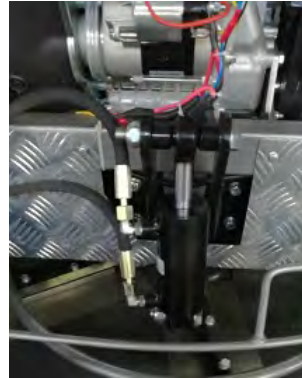
Adjust the bolt show on photo can setup the oil pressure.

4. Check Gear oil pump shell temperature, if shell temperature high means hydraulic oil didn't come into the gear pump



## Operate

1. Blade lift angle control bar under the chair. BM-1046H use hydraulic blade lifting. Move the bar up to increase the blade angle, move the bar down to decrease the blade angle.



**Caution: To protect the cylinder not lift the blade when machine stop, leave blades adjust cylinder in free condition.**

2. Moving direction



**Right hand joystick: function on all 4 direction**

**Left hand joystick: only function on front and reserve direction**

**Forward:** push 2 joysticks forward

**Reserve:** push 2 joysticks reserve

**Right movement:** move left joystick right side

**Left movement:** move left joystick to left side

**Turning:** right joystick forward, left joystick reserve to turn anticlockwise

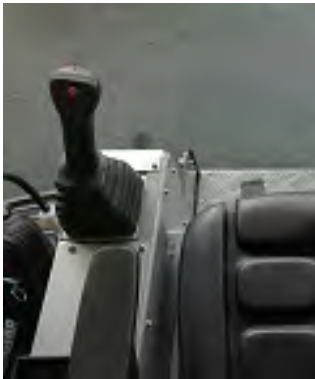
Right joystick reserve, left joystick forward to turn clockwise

**Always look behind you to avoid hazards before moving backwards.**

3. light switch  
light switch locate behind right joystick



4. Water spray pump  
Water spray switch locate on left joystick, red bottom is the switch  
Spray locate on the guard ring



5. Hydraulic cooling fan  
When machine starting, cooling fan can automatic running when hydraulic oil temperature over 50° C, when stop the engine, cooling fan be stopped



## Cleanup

NEVER allow concrete to harden on the power trowel.

Immediately after use, wash any concrete off your trowel with water. Be careful not to spray water on the engine. An old paintbrush or broom may help loosen any concrete that has started to burden.

Coat the blades and blade arms with diesel fuel after cleaning. This should help prevent rusting and allow for easier cleanup in the future.

Maintenance (service, Adjustment and repair)

**NOTE: See the engine manual supplied with your machine for appropriate engine maintenance schedule.**

## STORAGE

### WARNING:



Fuel is highly flammable. It may cause injury, death or property damage. **SHUT DOWN** the engine, extinguish all open flames and **DO NOT** smoke. **ALWAYS** wipe up any spilled fuel.



For long-term storage, empty the fuel in the carburetor by running the engine with the fuel tap being closed.

The chemical composition of the fuel will deteriorate after prolonged storage. When the Trowel needs to be stored for a long time, remove all the fuel from the fuel tank. Also remove the fuel from the float chamber of the carburetor by draining the fuel out from the drain plug.

Wash away cement/concrete accumulated on the Trowel. Clean the base and protection rings. Apply a light coat of oil to prevent rust formation. Cover the Trowel and store it in a dry place.

The Operation Handle can be disengaged for easy storage. Loosen the bolts on the connecting point on the base plate and release the Operation Handle from the slot.

## WARRANTY

Your new *BOMAX* Power Trowel is warranted to the original purchaser for a period of one year (12 months) from the original date of purchase.

The *BOMAX* warranty is against defects in design, materials and workmanship.

The following are not covered under the *BOMAX* warranty:

1. Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow assembly, operation or user maintenance instructions.
2. Alterations, additions or repairs carried out by persons other than *BOMAX* or their recognized agents.
3. Transportation or shipment costs to and from *BOMAX* or their recognized agents, for repair or assessment against a warranty claim, on any equipment.
4. Materials and/or labor costs to renew, repair or replace components due to fair wear and tear.
5. Engine.

*BOMAX* and/or their recognized agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of or the inability to use the equipment for any purpose.

## WARRANTY CLAIMS

All warranty claims should firstly be directed to the local dealer, either by telephone, by fax, by email, or in writing.

### **USE ONLY GENUINE BOMAX PARTS AND ACCESSORIES**

For your own safety, the safety of others and the life of your equipment.