

# Bäumr-AG



## Plate Compactor

### User Manual

[Revision 4.0 October 2018]

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READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

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# Safety

- This manual contains DANGER, WARNING, CAUTION, and NOTE callouts which must be followed to reduce the possibility of personal injury, damage to the equipment, or improper service.
- Familiarity and proper training are required for the safe operation of equipment. Equipment operated improperly or by untrained personnel can be dangerous! Read the operating instructions contained in both this manual and the engine manual and familiarize yourself with the location and proper use of all controls. Inexperienced operators should receive instruction from someone familiar with the equipment before being allowed to operate the machine.
- NEVER allow anyone to operate this equipment without proper training. People operating this equipment must be familiar with the risks and hazards associated with it.
- NEVER touch the engine or muffler while the engine is on or immediately after it has been turned off. These areas get hot and may cause burns.
- NEVER use accessories or attachments that are not recommended. Damage to equipment and injury to the user may result.
- NEVER operate the machine with the belt guard missing. Exposed drive belt and pulleys create potentially dangerous hazards that can cause serious injuries.
- NEVER leave machine running unattended.
- ALWAYS be sure operator is familiar with proper safety precautions and operation techniques before using machine.
- ALWAYS wear protective clothing appropriate to the job site when operating equipment.
- ALWAYS wear hearing protection when operating equipment.
- ALWAYS close fuel valve on engines equipped with one when machine is not being operated.
- ALWAYS store equipment properly when it is not being used.
- Equipment should be stored in a clean, dry location out of the reach of children.
- ALWAYS operate machine with all safety devices and guards in place and in working order. DO NOT modify or defeat safety devices. DO NOT operate machine if any safety devices or guards are missing or inoperative.
- ALWAYS read, understand, and follow procedures in Operator's Manual before attempting to operate equipment.

## MECHANICAL HAZARDS

- DO NOT operate the machine unless all protective guards are in place. Ensure all warning labels are visible and understood.
- KEEP hands and feet clear of rotating and moving parts as they will cause injury if contacted.
- ENSURE that the motor operation switch is in the OFF position and the spark plug ignition lead is disconnected before removing the guards or making adjustments.
- ENSURE both the machine and the operator are stable by setting up on level terrain and the machine will not tip over, slide or fall while in operation or unattended.
- DO NOT leave the machine in operation while it is unattended.
- ENSURE that the walls of a trench are stable and will not collapse due to the action of the vibration, prior to commencing compaction.

- ENSURE that the area to be compacted does not contain any “live” electrical cables, gas, water or communication services which may be damaged by the action of the vibration.
- EXERCISE CARE when operating unit. Exposure to vibration or repetitive work actions may be harmful to hands and arms.
- NEVER stand on the unit while it is operating.
- DO NOT increase the governed no-load motor speed above 3,500rpm. Any increase may result in personal injury and damage to the machine.
- BE CAREFUL not to come in contact with the muffler when the engine is hot, since it can cause severe burns
- ENSURE that repairs to the motor and machine are carried out by qualified COMPETENT personnel.

### **FIRE & EXPLOSION HAZARDS**

- PETROL or diesel is extremely flammable and explosive under certain conditions.
- ENSURE that petrol or diesel is only stored in an approved storage container away from source of ignition.
- DO NOT refuel the motor while it is in operation or hot.
- DO NOT refuel the motor in the vicinity of ignition source such as sparks, a naked flame or a person smoking.
- DO NOT over fill the fuel tank and avoid spilling petrol when refueling. Spilled petrol or petrol vapour may ignite. If spillage occurs, ensure that the area is dry before starting the motor.
- ENSURE that the fuel tank cap is securely fitted after refueling.
- Ensure fire extinguisher is readily available for use.

### **CHEMICAL HAZARDS**

- DO NOT operate or refuel a petrol or diesel motor in a confined area without adequate ventilation.
- CARBON MONOXIDE exhaust gases from internal combustion motor driven units can cause death in confined spaces.
- Check TLV (Threshold Limit Value) and oxygen content of area safe for operation.

### **NOISE HAZARDS**

- EXCESSIVE NOISE can lead to temporary or permanent loss of hearing.
- WEAR an approved hearing protection device to limit noise exposure as required by Occupational Health and Safety regulations suitable for machine noise level.

### **PROTECTIVE CLOTHING**

- ALWAYS wear approved hearing protection, protective goggles and a dust mask when working in a dusty environment.
- Protective clothing, anti-vibration gloves, safety footwear must be worn especially when working with hot mix bitumen. Wear sun cream and wide brimmed hat in exposed areas. Drink plenty of water.

### **ADDITIONAL HAZARDS**

- Vibration hazard can cause permanent injury Slip/Trip/Fall is a major cause of serious injury or death.
- Beware of uneven or slippery work surfaces.
- Exercise care when working in the vicinity of unprotected holes elevated platforms or excavations.



# Operation

## Transporting & Handling

- The unit can be lifted by the handles on the sides of the unit or by the roll cage.
- The unit must be transported in the upright position. DO NOT lay machine on its side or top.
- Secure or tie down unit using the lift handles or roll cage (fig 1).
- This plate compactor secures the wheels with 2 rubber latches. This is due to vibrations during operation so they do not become loose. Always keep in the upright positions when running and in use (fig 2).
- Carefully release the wheels from the rubber clamps and lift up the plate compactor and fold wheels down for transporting short distances by hand (fig 3).

LIFT &amp; SECURE HERE

Fig 1

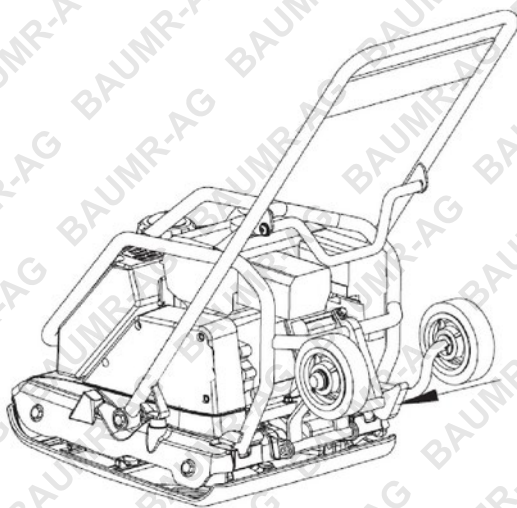
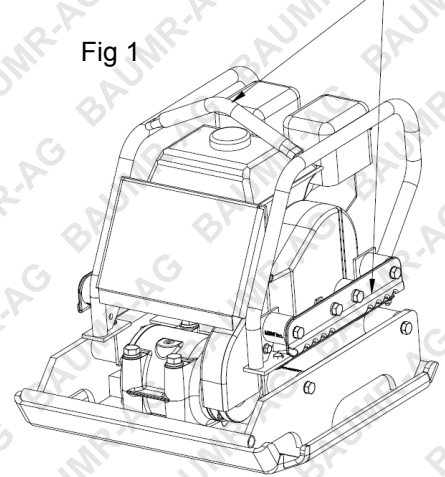


Fig 2

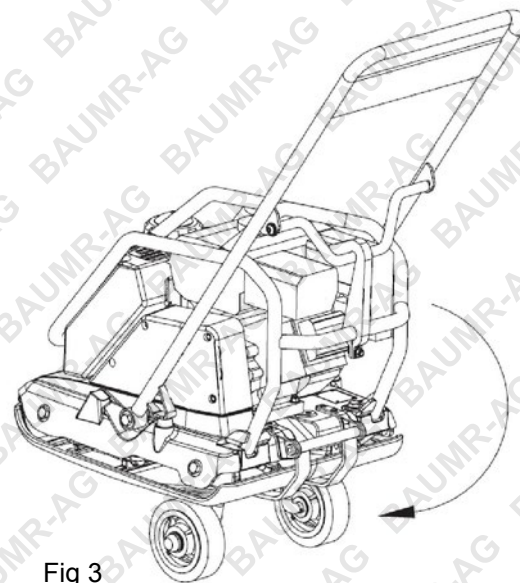


Fig 3

## Tips & Pointers

- The machine is best suited to the compaction of bituminous and granular materials e.g. granular soils, gravels and sands or mixtures of both. Cohesive soils such as silt and clay are best compacted using the impact force produced by a vibrating rammer.
- Where possible the site should be graded and levelled before commencing compaction.
- Correct moisture content in soil is vital to proper compaction. Water acts as a lubricant to help slide soil particles together.
- Too little moisture means inadequate compaction; too much moisture leaves water filled voids that weaken the soil's loadbearing ability. Compaction of dry materials will be facilitated by moistening with a water hose fitted with a sprinkler. Excessive watering or water content will cause the machine to stall.
- The optional water tank kit is recommended when the machine is used on bituminous surfaces as the water film prevents a build-up of material on the underside of the plate.
- Use unleaded grade petrol and ensure that the fuel is free from contamination.
- The vibratory motion provides a self-propelling action.
- Position the handle at the opposite end of the machine to the vibrator.
- Start the motor using the recoil starter. (If the motor is fitted with an on/off switch this must first be turned to ON before starting.)
- For more information on starting and correct operating procedures of the motor, refer to the motor operation manual supplied with the unit.
- Increase the motor speed to the maximum setting using the hand throttle lever, before commencing compacting.
- The machine should be controlled by grasping the handle with both hands and applying restraint to control the forward motion, steer the machine by moving the handle sideways to the right or left. Ensure other persons and children are clear of barricaded area.
- Keep clear of electrical leads and hoses on floor.
- ALWAYS maintain good footing so that you do not slip and lose control when starting or operating the machine.
- If the optional water tank is fitted, the flow rate can be controlled by adjusting the cock in the supply hose to the sprinkler bar.

## Checks Before Usage

- **REMEMBER!** It is the owner's responsibility to communicate information on the safe use and proper operation of this unit to the operators.
- Review ALL of the Safety Precautions listed on page 1 of this manual.
- Familiarize yourself with the operation of the machine and confirm that all controls function properly.
- Know how to STOP the machine in case of an emergency.
- Make sure hands, feet, and clothing are at a safe distance from any moving parts.
- **OIL LEVEL** - Check the oil level in the engine. For more information see "Lubrication" under the respective engine's Owner's Manual or the Maintenance section of this manual.
- **AIR CLEANER** - Check to ensure element is in good condition and properly installed.
- **FUEL SUPPLY** - The engines on MBW equipment require an automotive grade of clean, fresh, unleaded gasoline.

- FUEL FILTER - If clogged or damaged, replace.

## Application

This plate is designed for compacting loose, granular soils, gravel, and paving stones. It is intended to be used in confined areas and areas next to structures such as walls, curbs, and foundations. Plates equipped with water tanks can be used for compacting asphalt.

This plate is not recommended for compacting cohesive soils with a heavy clay content. For cohesive soil, use a vibratory rammer or sheep's foot roller.

Run engine at full throttle and allow plate to pull itself along at its normal speed. When operating on an incline it may be necessary to assist plate by pushing it forward slightly. Depending on the material being compacted, three or four passes are recommended to achieve the best compaction.

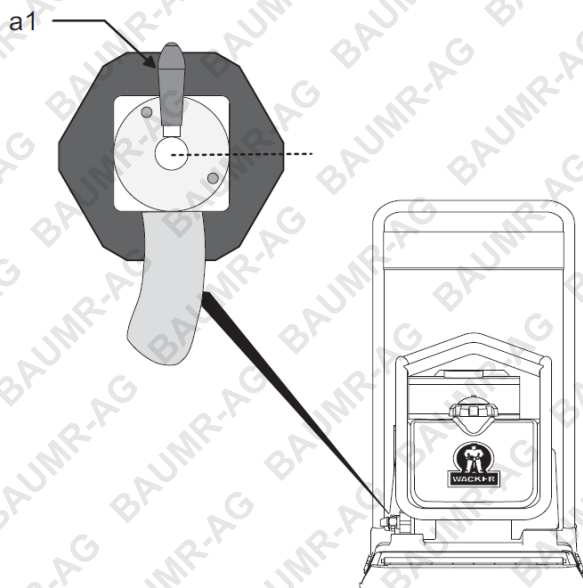
While a certain amount of moisture in the soil is necessary, excessive moisture may cause soil particles to stick together and prevent good compaction. If soil is extremely wet, allow it to dry somewhat before compacting.

If soil is so dry as to create dust clouds while operating plate, some moisture should be added to the ground material to improve compaction. This will also reduce service to the air filter.

For compacting asphalt, open water tank valve (a1) to wet asphalt and underside of plate. This will prevent asphalt material from sticking. Two or three passes are usually sufficient to ensure good compaction.

When using plate on paving stones, attach a pad to the bottom of the plate to prevent chipping or grinding surface of the stones. A special urethane pad designed for this purpose is available as an optional accessory.

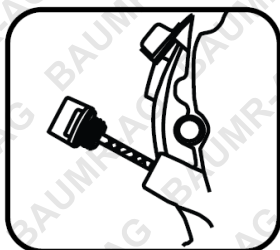
**NOTICE: DO NOT** operate plate on concrete or on extremely hard, dry, compacted surfaces. The plate will jump rather than vibrate and could damage both plate and engine.



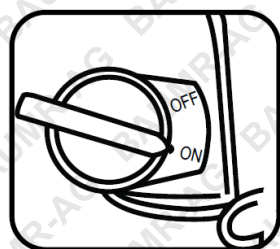


## Quick Start Guide

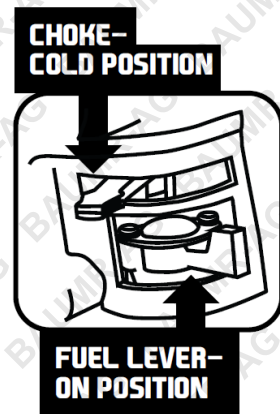
**Step 1:** Remove oil dipstick (or cap) and ensure enough engine oil (10W30 recommended 600ML)



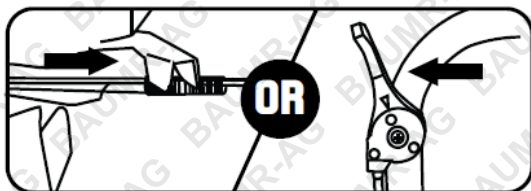
**Step 2:** Locate on/off switch and turn on



**Step 3:** Turn fuel lever on and choke to cold



**Step 4:** Ensure throttles is on low



**Step 5:** Pull starter cord until it kicks (About 3-4 times, more if cold weather)



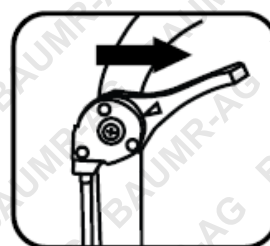
**Step 6:** Turn choke on



**Step 7:** Pull starter cord until engine starts



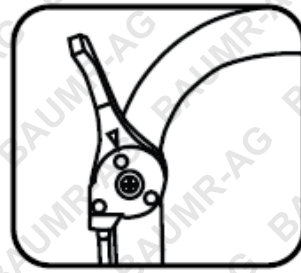
**Step 8:** Adjust throttle lever as needed



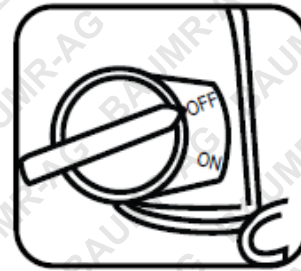


## When Finished:

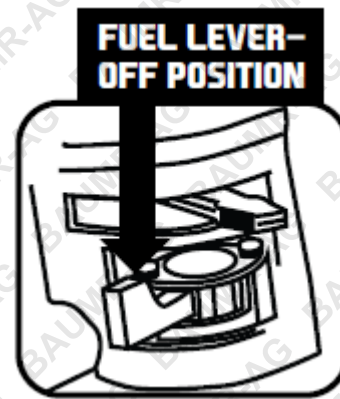
**Step 1:** When finished, turn throttle to low



**Step 2:** Switch off engine



**Step 3:** Turn fuel lever off when stored



## Maintenance

### Spark Plug

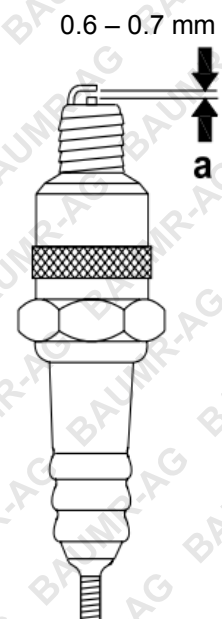
Clean or replace the spark plug as needed to ensure proper operation.

Refer to the table below for frequency.

The spark plug becomes very hot during operation and remains hot for a while after stopping the engine. Do not touch the spark plug while it is hot.

Note: Refer to the Technical Data for the recommended spark plug type and the electrode gap setting.

- Remove the spark plug and inspect it.
- Replace the spark plug if the insulator is cracked or chipped.
- Clean the spark plug electrodes with a wire brush.
- Set the electrode gap (a) 0.6 – 0.7 mm
- Tighten the spark plug securely.



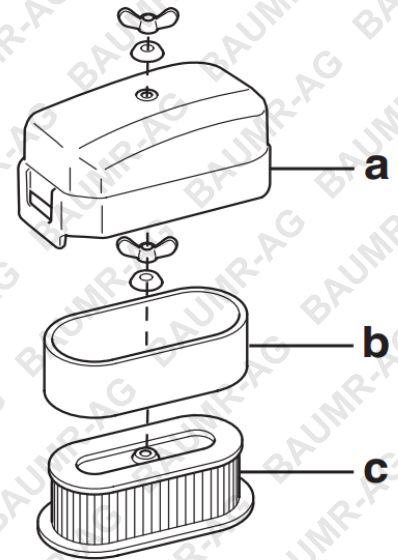
## Air Filter

**NEVER run the engine without the air cleaner. Severe engine damage will occur.**

The engine is equipped with a dual-element air cleaner.

Under normal operating conditions, the elements should be cleaned once every week. Under severe, dry and dusty conditions, the elements should be maintained daily. Replace an element when it is saturated with dirt that cannot be removed.

- Remove the air cleaner cover (a). Remove the filter assembly by pulling it straight up. Inspect both elements for holes or tears. Replace damaged elements.
- Wash the foam element (b) in a solution of mild detergent and warm water. Rinse it thoroughly in clean water. Allow the element to dry thoroughly.
- Tap the paper element (c) lightly to remove excess dirt or blow compressed air through the filter from the inside out. Replace the paper element if it appears heavily soiled.



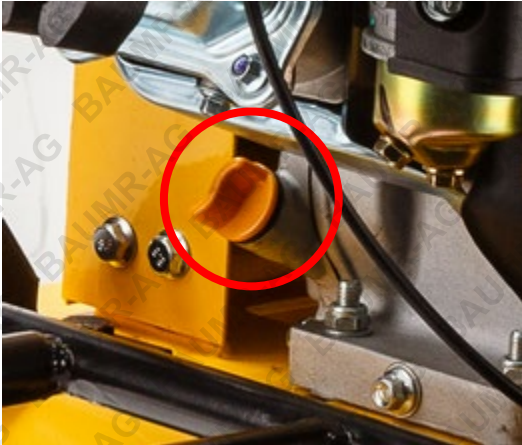
## Oil

Please check oil before every use. To drain the oil, remove the drain plug with a **10mm** socket.



**Be careful! Ensure there is a proper draining bowl for the old oil. Plate Compactor may need to be slightly tilted.**

Once drained, fasten the screw plug back in. Refill with 600ml of 10W30 (recommended) engine oil by removing the dipstick (circled in red) and pouring into cavity.



Check oil by removing dipstick and wiping it clean. Dip it back into it's cavity without fully screwing it back in.



**LOW** – Needs refilling or more added

**LOW-OK** – Enough but will need refilling soon

**OK** – Enough

Consider replacing oil if in far right condition.





**Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see [www.datastreamserver.com/safety](http://www.datastreamserver.com/safety)**

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

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