

# Bäumr-AG



## Plate Compactor – BCX-800

### User Manual

[Revision 1.0 January 2019]

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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.



The product is NOT supplied with engine oil, although traces of oil from the manufacturing process may be present. It is essential to add adequate engine oil of the correct type to the engine before use. **Failure to add engine oil will void the product warranty.**

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# Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:

 <p>You <b>WILL</b> be KILLED or SERIOUSLY INJURED if you do not follow instructions.</p>	 <p>You <b>CAN</b> be KILLED or SERIOUSLY INJURED if you do not follow instructions.</p>	 <p>You <b>CAN</b> be INJURED if you do not follow instructions or equipment damage may occur.</p>
<p>It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.</p>	<p>Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.</p>	<p>General Equipment Use and Care</p> <ul style="list-style-type: none"> <li>The equipment is designed for domestic use only.</li> <li>Handle the equipment safely and carefully.</li> <li>Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.</li> <li>Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.</li> <li>Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.</li> <li>Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.</li> <li>Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.</li> <li>Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases or liquids etc.</li> <li>The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.</li> <li>Do not clean equipment with solvents, flammable liquids or harsh abrasives.</li> <li>For specific equipment safety use and care, see Equipment Safety.</li> </ul>
<p>It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.</p> <p>Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.</p> <p>Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.</p>	<p>General Personal Safety</p> <ul style="list-style-type: none"> <li>Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.</li> <li>Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.</li> <li>Do not use the equipment if tired or under the influence of drugs, alcohol or medication.</li> <li>This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.</li> </ul>	<p>General Fuel Safety</p> <ul style="list-style-type: none"> <li>Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.</li> <li>Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.</li> <li>Do NOT smoke near fuel or when refuelling.</li> <li>Always shut off the engine before refuelling.</li> <li>Do NOT refuel a hot engine.</li> <li>Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.</li> <li>Always refuel in well ventilated areas.</li> <li>Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.</li> </ul>
<p>General Work Area Safety</p> <ul style="list-style-type: none"> <li>Work areas should be clean and well lit.</li> <li>Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.</li> <li>If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.</li> </ul>	<p>General Carbon-Monoxide Safety</p> <ul style="list-style-type: none"> <li>Using a combustion engine indoors <b>CAN KILL IN MINUTES</b>. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.</li> <li>Use combustion engines <b>OUTSIDE</b> only, and far away from windows, doors and vents.</li> </ul>	

## General Electrical Safety

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Wherever possible, use a residual current device (RCD).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

## General Electrical Safety

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

## General Service Information

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories or performing repair or maintenance.
- Do NOT adjust while the equipment is running.
- Perform service related activities in suitable conditions, such as a workshop.
- Replace worn, damaged or missing warning/safety labels immediately.

## Plate Compactor Safety

- These compactors are not intended to be used on cohesive soils such clay or hard surfaces like concrete.
- The Engine Manufacturer is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the Engine Manufacturer's owner/operator's manual, packed separately with your unit, for more information.
- Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be resorted, taken to the local recycling center and disposed of in an environmentally safe way.

## Understand your Machine

- Read and understand the operator's manual and labels affixed to the machine. Learn its application and limitations as well as the specific potential hazards peculiar to it.
- Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.
- Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manual, packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the Engine and how to avoid accidental injuries and/or property damage.

## Work area

- Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odourless and deadly gas. Operate this unit only in a well-ventilated outdoor area.
- Never operate the machine without good visibility or light.

## Personal safety

- Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.
- Dress properly. Wear heavy long pants, boots and gloves. Do not wear loose clothing, short pants, jewellery of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc. are securely tightened.
- Never operate the machine when it needs repair or is in poor mechanical condition. Replace damaged, missing or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.
- Do not use the machine if the engine's switch does not turn it on or off. Any gasoline powered machine that cannot be controlled with the engine switch is dangerous and must be replaced.
- Form a habit of checking to see that keys and adjusting wrenches are removed from machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.
- Stay alert, watch what you are doing and use common sense when operating the machine.
- Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.
- Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

## Fuel safety

- Fuel is highly flammable, and its vapours can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.
- When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. Do not smoke, or allow sparks, open flames or other sources of ignition near the area while adding fuel or operating the unit. Never fill fuel tank indoors.
- Keep grounded conductive objects, such as tools, away from exposed, live electrical parts and connections to avoid sparking or arcing. These events could ignite fumes or vapours.
- Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.
- Loose the fuel tank cap slowly to relieve any pressure in the tank.
- Never overfill fuel tank (there should be no fuel above the upper limit mark).
- Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.
- Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.
- Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapours have dissipated.
- Store fuel in containers specifically designed and approved for this purpose.
- Store fuel in a cool, well-ventilated area, safely away from sparks, open flames or other sources of ignition.
- Never store fuel or machine with fuel in the tank inside a building where fumes may reach a spark, open flame, or any other source of ignition, such as a water heater, furnace, clothes dryer and the like. Allow the engine to cool before storing in any enclosure.

## Machine use and care

- Never pick up or carry a machine while the engine is running.
- Do not force the machine. Use the correct machine for your application. The correct machine will do the job better and safer at the rate for which it was designed.
- Do not change the engine governor settings or over-speed the engine. The governor controls the maximum safe operating speed of the engine.
- Do not run the engine at a high speed when you are not pounding.
- Do not put hands or feet near rotating parts.
- Avoid contact with hot fuel, oil, exhaust fumes and hot surfaces. Do not touch the engine or muffler. These parts get extremely hot from operation. They remain hot for a short time after you turn off the unit. Allow the engine to cool before doing maintenance or making adjustments.
- If the machine should start to make an unusual GB noise or vibration, immediately shut off the engine, disconnect the spark plug wire, and check for the cause. Unusual noise or vibration is generally warning of trouble.
- Use only attachments and accessories approved by the manufacturer. Failure to do so can result in personal injury.
- Maintain the machine. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the machine's operation. If damaged, have the machine repaired before use. Many accidents are caused by poorly maintained equipment.
- Keep the engine and muffler free of grass, leaves, excessive grease or carbon build up to reduce the chance of a fire hazard.
- Never douse or squirt the unit with water or any other liquid. Keep handles dry, clean and free from debris. Clean after each use.
- Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.
- Store idle machine out of the reach of children and do not allow persons unfamiliar with the machine or these instructions to operate it. Machine is dangerous in the hands of untrained users.

## Service

- Before cleaning, repair, inspecting, or adjusting, shut off the engine and make certain all moving parts have stopped. Always make sure the engine's switch is in its "OFF" position. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
- Have your machine serviced by a qualified repair personnel using only identical replacement parts. This will ensure that the safety of the machine maintained.

## Specific Safety Rules

- To avoid injury, keep hands, fingers and feet away from the base plate. Grip the handle of the plate compactor firmly with both hands. If both hands are holding the handle and your feet are clear of the compactor base, your hands, fingers and feet cannot be injured by the compactor base.
- Always operate the machine from behind, never pass or stand in front of the machine when the engine is running.
- Never place tools or any other item under the plate compactor.
- If the unit strikes a foreign object, stop the engine, disconnect the spark plug, thoroughly inspect the machine for any damage, and repair the damage before restarting and operating the machine.
- Do not overload the machine capacity by compacting too deep in a single pass or at too fast a rate.
- Never operate the unit at high transport speeds on hard or slippery surfaces.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
- Never leave the operating position and leave the plate compactor unattended when the engine is running.
- Always stop the engine when compacting is delayed or when walking from one location to another.
- Stay away from the edges of ditches and avoid actions that may cause the plate compactor to topple over.
- Always ascend slopes carefully, in a direct path and in reverse to prevent the plate compactor from toppling over onto the operator.
- Always park the unit on a firm and level surface and shut the tool off.

- To reduce exposure to vibration, limit the hours of operation and take periodic breaks to minimize repetition and rest your hand. Reduce the speed and force in which you do the repetitive movement. Try to fill each day with jobs where operating hand-held power equipment is not required.

**DANGER**

**Using an engine or wood/charcoal/gas fuelled appliance indoors CAN KILL YOU IN MINUTES.**  
**Engine exhaust and wood/charcoal/gas fumes contain carbon monoxide. This is a poison you cannot see or smell.**

**NEVER use inside a building, home, garage, boat, caravan or tent EVEN IF doors and windows are open.**

**Only use OUTSIDE and far away from windows, doors, and vents.**

**Avoid other hazards - READ MANUAL BEFORE USE.**

**GENERAL:**

- Do not operate in a hazardous location. Such areas include where there is a risk of explosion of petrol fumes, leaking gas or explosive dusts.
- Do not operate in a confined area where exhaust gases or wood/charcoal/gas fumes could reach dangerous concentrations.

**PRODUCTS FEATURING AN ENGINE**

- Follow all warnings in the section titled "GENERAL".
- Explosion hazard - never smoke while refuelling.
- Take care not to spill fuel. When refuelling the engine, ensure that the engine has been allowed to cool. Prevent spilling of fuel as this may also ignite with a hot engine.
- Never refuel while engine is running.

**GENERATORS**

- Follow all warnings in the sections titled "GENERAL" and "PRODUCTS FEATURING AN ENGINE".
- The output of this generator is potentially lethal. The generator should not be connected to a fixed electrical installation except by an appropriately licensed person.
- Not weatherproof – protect your machine. This machine is not weatherproof and should not be exposed to direct sunlight, high ambient temperature, damp conditions, wet conditions or high humidity conditions.

## Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.

			 WARNING EXHAUST FUMES
<b>Flammable Material Hazard</b> Flammable liquids, gases or substances etc may present. Avoid ignition sources and open flames. Danger of fire.	<b>Read User Manual</b> Read and fully understand product safety warnings, operation, procedures etc before using the product.	<b>Use Hand Protection</b> Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.	<b>Carbon-Monoxide Hazard</b> Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.
			
<b>Electrocution / Electrical Shock Hazard</b> High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.	<b>Toxic Fumes / Dust Hazard</b> Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.	<b>Explosive Material Hazard</b> Combustible liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.	<b>Cutting / Amputation Hazard</b> The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.
			
<b>Crush Hazard</b> The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.	<b>Single Operator Only</b> The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.	<b>Use Face Protection</b> Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.	<b>Use Foot Protection</b> Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.
			
<b>Use Eye / Ear / Head Protection</b> Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing and head hazards.	<b>Running Hazard</b> Do not run on or near the product as doing so may present a fall hazard.	<b>Diving Hazard</b> Do not dive into the product as doing so may present a neck / head injury hazard.	<b>Adult Supervision Required</b> Always supervise children and other users of a product to prevent drowning or injury.
			
<b>Skin Penetration / Puncture Hazard</b> The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.	<b>Hot Surface Hazard</b> Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.	<b>Flying Debris Hazard</b> Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.	<b>Moving Parts Hazard</b> Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.

 <p><b>Carbon-Monoxide Hazard</b> Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>	 <p><b>Pull Hazard</b> Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p><b>Slope / Fall Injury Hazard</b> Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.</p>	 <p><b>"Slam Dunk" Warning</b> Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.</p>
 <p><b>Electrocution / Electrical Shock Hazard - Outdoor</b> High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.</p>	 <p><b>Electrocution / Electrical Shock Hazard - Disconnect</b> High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.</p>	 <p><b>Power Line Electrocution Hazard</b> High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.</p>	 <p><b>"Kick-Back" Hazard</b> High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.</p>
 <p><b>Winch Operator Position Hazard</b> Do NOT stand between winch and load. Do NOT use winch to move people.</p>	 <p><b>Winch Lift Hazard</b> Do NOT LIFT load vertically. Use machine to PULL only.</p>	 <p><b>Cable Hazard</b> Ensure that load bearing cable is not kinked or knotted.</p>	 <p><b>Winch Cable Hazard</b> Ensure that there is a minimum number of cable coils on winching mechanism.</p>
 <p><b>Winch Hook Hazard</b> Carry hook to load – do NOT throw or run.</p>	 <p><b>Flash / Blinding Hazard</b> Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.</p>	 <p><b>Laser Hazard</b> Laser may be in use – do NOT look directly at laser or allow others to.</p>	

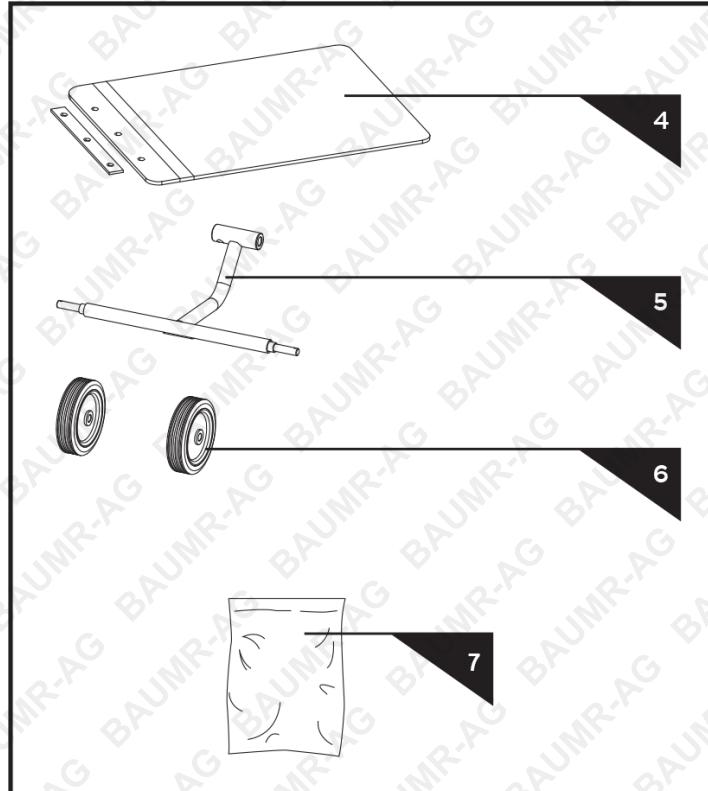
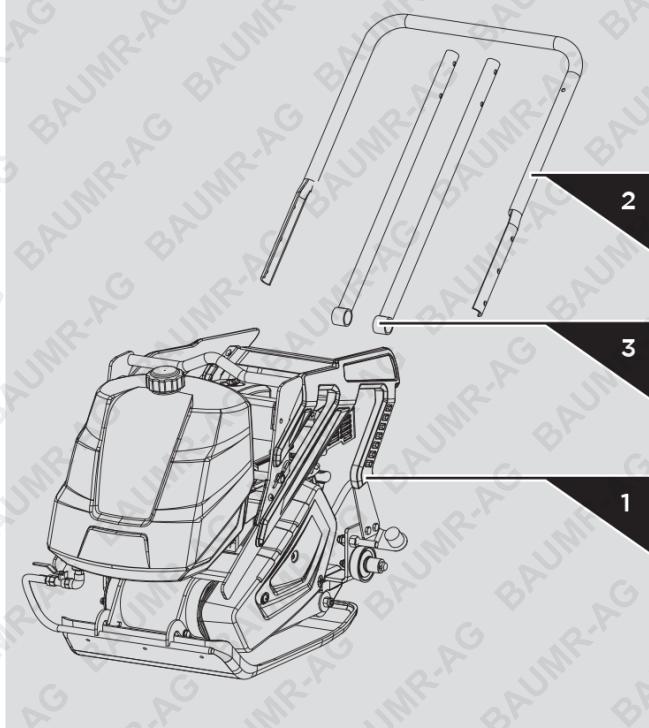
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# Parts Identification

The plate compactor comes partially assembled and is shipped in carefully packed carton. After all the parts have been removed from the carton, you should have:

## Compactor with optional water sprinkler kit

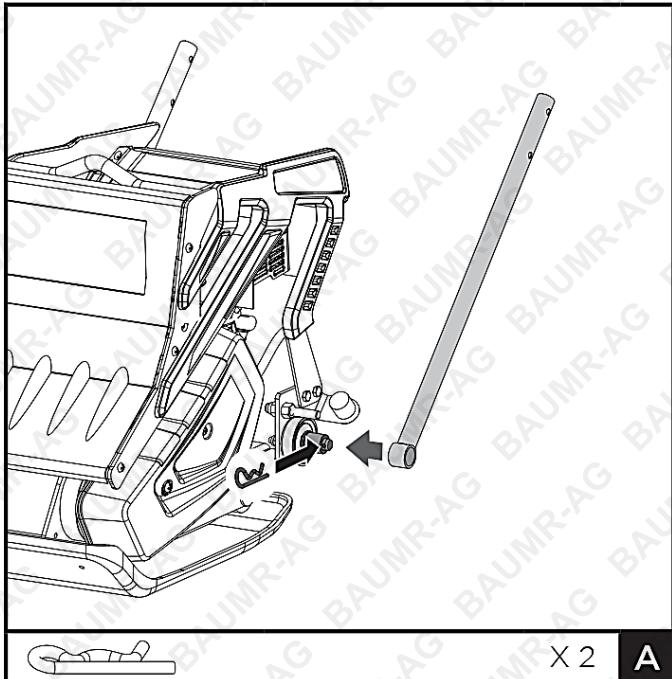


No.	Name									
1	Plate Compactor Chassis with Engine and Transmission									
2	Upper Handle									
3	Lower Handle									
4	Paving Pad (Optional)									
5	Folding Wheels Bracket (Optional)									
6	Wheels (Optional)									
7	Hardware Bag, including:									
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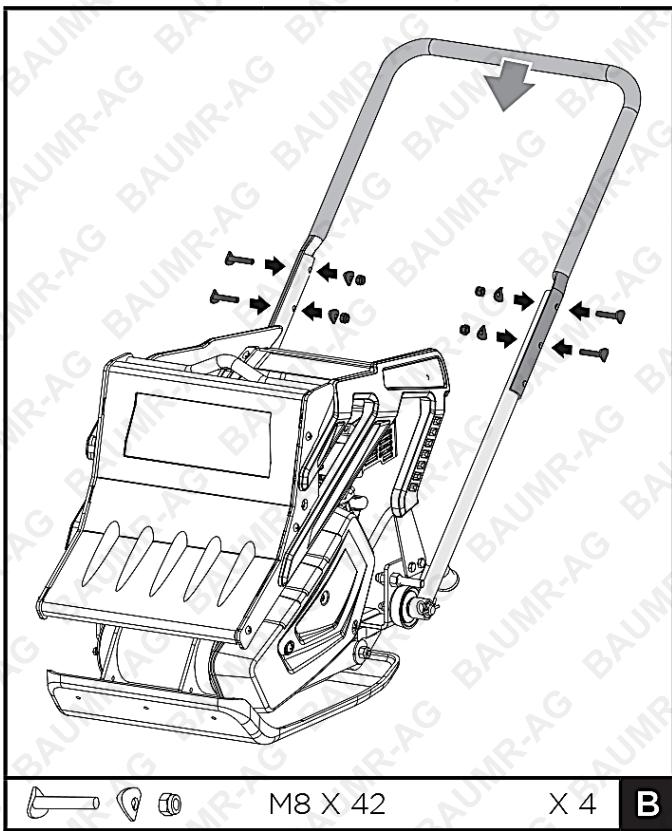
# Assembly and Set-Up

## Handle

1. Assemble the Lower handle as shown.

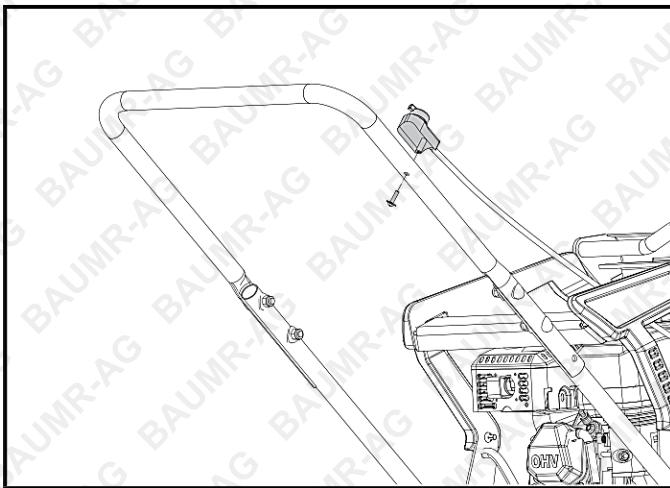


2. Assemble the Upper handle as shown.



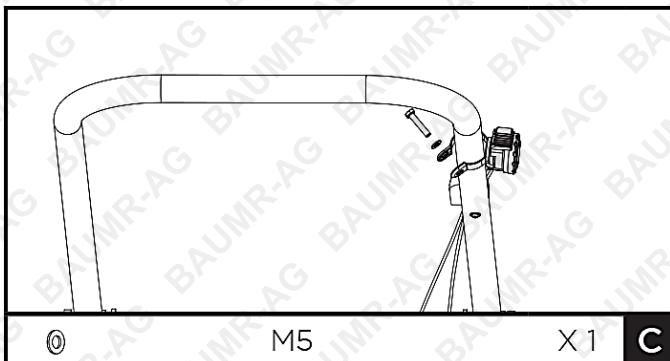
## Stop Switch

Remove the screw from stop switch, align the hole in handle with hole in switch. Insert the screw into the hole and tighten in the switch.



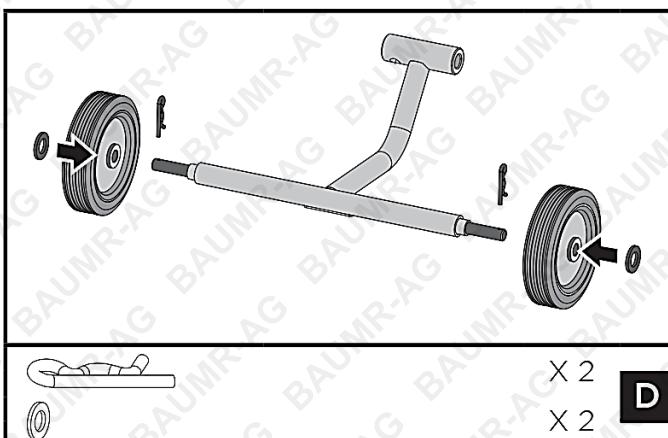
## Throttle Control

Unscrew bolt 5X35 from throttle control. Secure the Throttle Control onto the Upper Handle with a flat washer 5 and the bolt 5X35 that just were unscrewed.

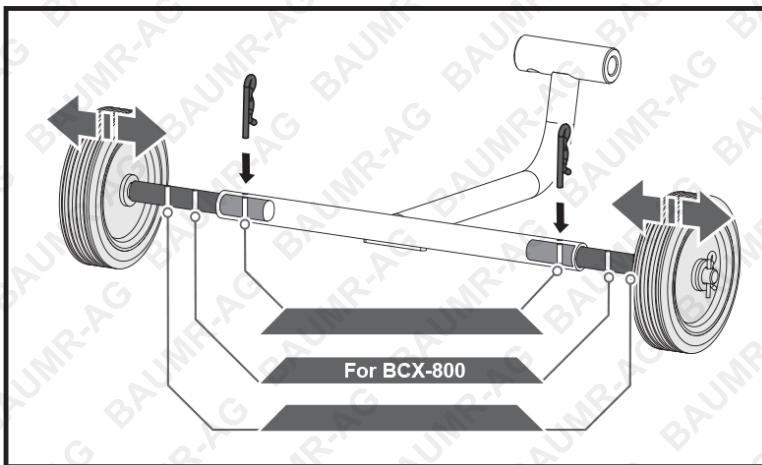


## Folding Wheels Kit (Optional)

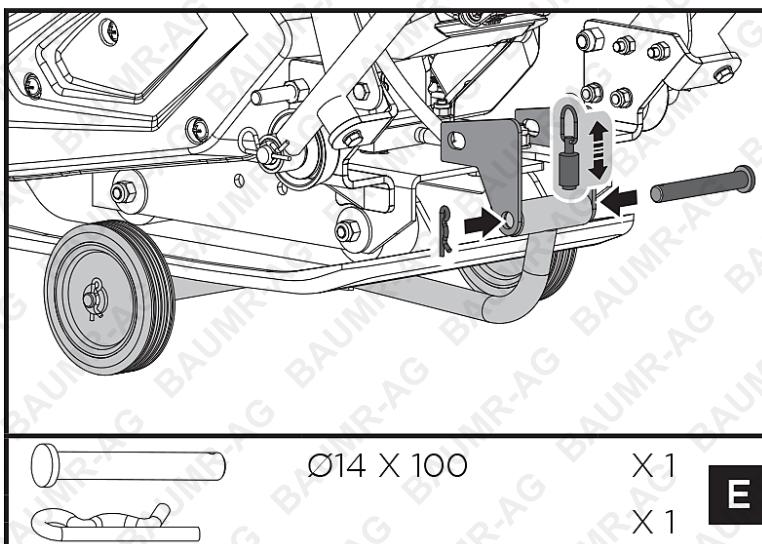
1. Slide the wheels over the stub axles. Secure with hairpin retainers and flat washers.



- Three holes on the stub axle allow to adjust the distance between the wheels, pull out the pin first, adjust the wheels to the suitable distance, then tighten with the pin.



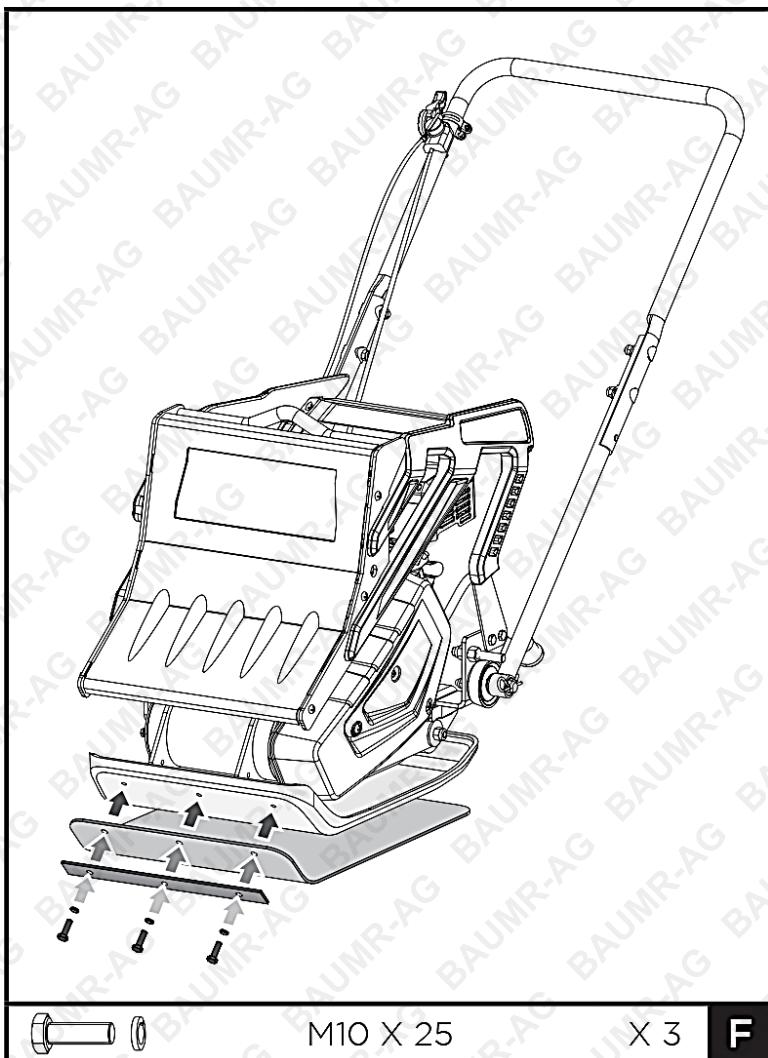
- Pull up the spring bolt and put the upper pipe of the wheels bracket into the mounting bracket. Align two ends of the pipe with the holes. Slide the bolt in and secure with the clips.



## Paving Pad Kit (Optional)

The transparent rubber Paving Pad allows to compact concrete paving slabs, stones, bricks and blocks silently and gently.

Attach the Paving Pad onto the Base Plate as shown. Align the holes in the Base Plate, Paving Pad and Clamp Plates, and secure it with 3 bolts M10x25 and lock washers.



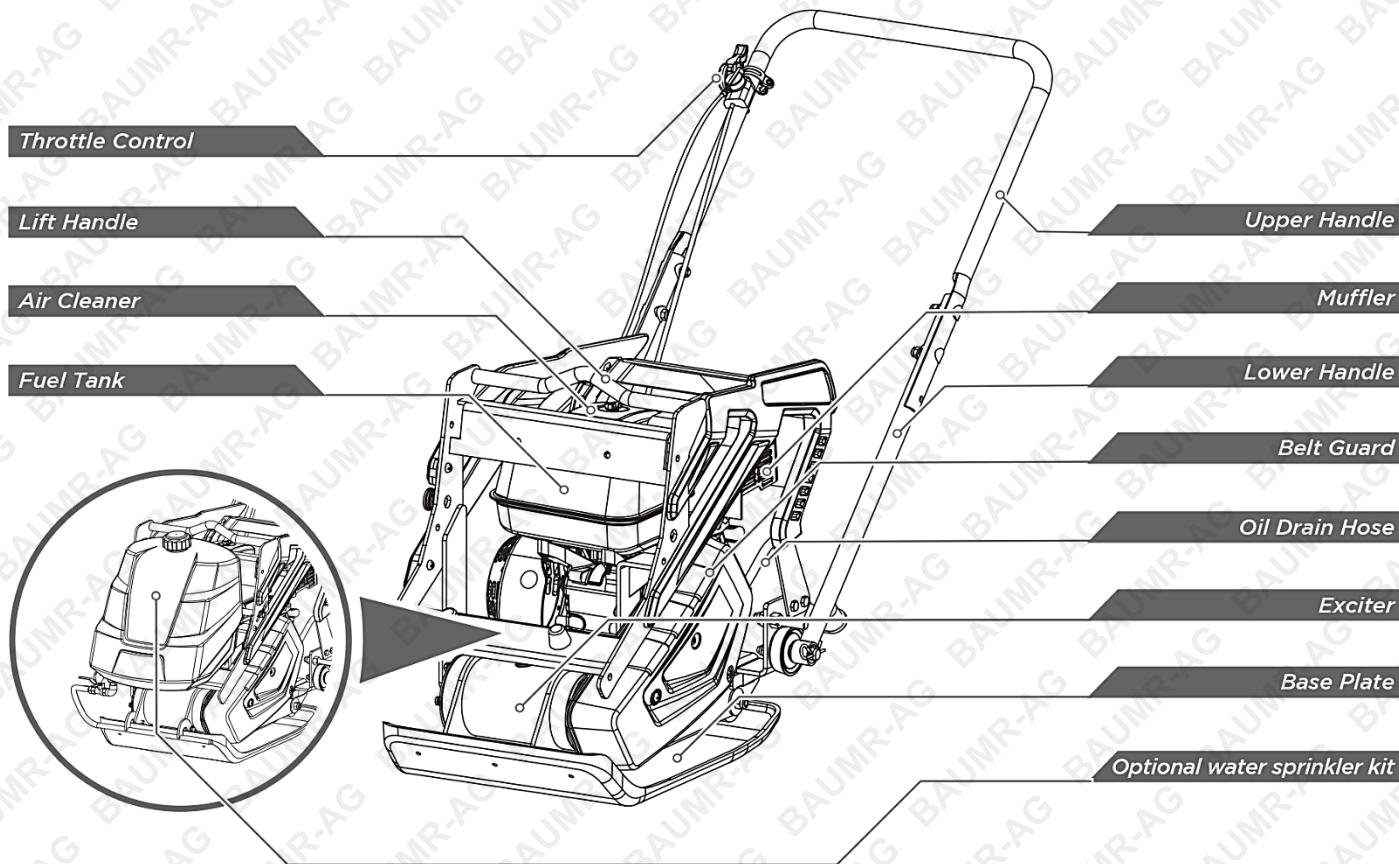
## Engine Oil



**OIL HAS BEEN DRAINED FOR SHIPPING.** Failure to fill engine sump with oil before starting engine will result in permanent damage and void engine warranty.

Add oil according to Engine Manual packed separately with your tiller.

# Know Your Machine



## Fuel Valve Control

The fuel valve opens and closes the passage between the fuel tank and the carburettor. The fuel valve lever must be in the ON position for the engine to run. When the engine is not in use, leave the fuel valve lever in the OFF position to prevent carburettor flooding and to reduce the possibility of fuel leakage.

## Throttle Control

The throttle lever controls engine speed. Moving the throttle lever makes the engine run faster or slower.

## Engine Switch

The engine switch enables and disables the ignition system. The engine switch must be in the ON position for the engine to run. Turning the engine switch to the OFF position stops the engine.

## Choke Lever

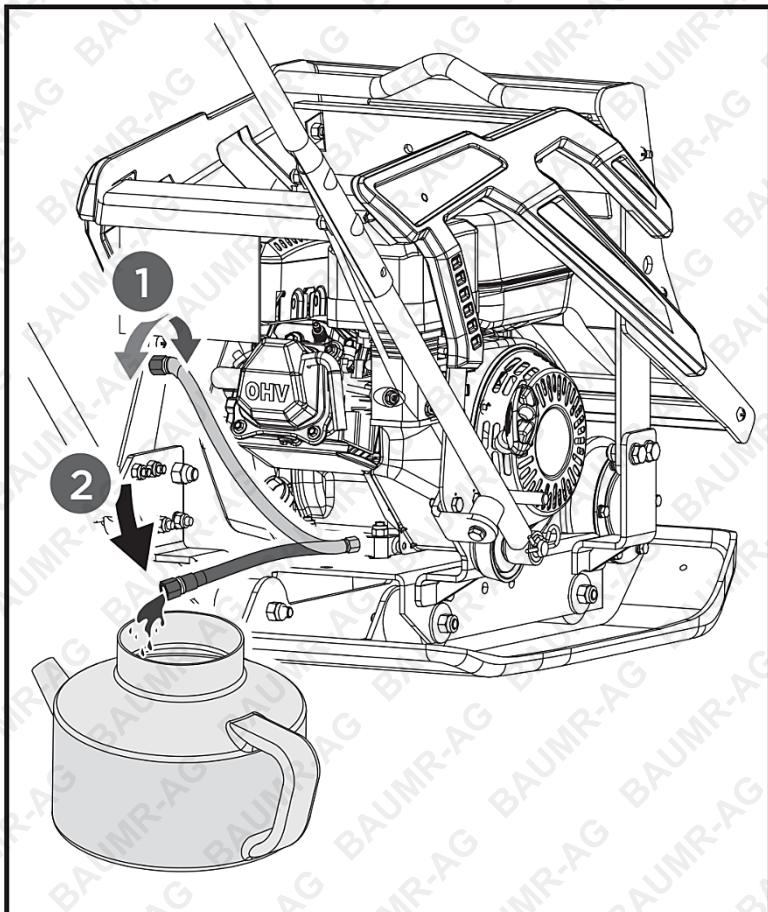
The choke lever opens and closes the choke valve in the carburettor. The closed position enriches the fuel mixture for starting a cold engine. The open position provides the correct fuel mixture for operation after starting, and for restarting a warm engine. Some engine applications use a remotely-mounted choke control rather than the engine-mounted choke lever.

## Recoil Starter Grip

Pulling the starter grip operates the recoil starter to crank the engine.

## **Oil Drain Hose**

Running the engine with dirty oil can cause premature engine wear and failure. Changing oil regularly is extremely important. The flexible oil drain hose is equipped to drain oil into appropriate receptacle.



## **Choke Lever**

Running the engine with dirty oil can cause premature engine wear and failure. Changing oil regularly is extremely important. The flexible oil drain hose is equipped to drain oil into appropriate receptacle.

## **Exciter**

An eccentric weight mounted on the exciter shaft contained within exciter housing is driven at high speed by a clutch and belt drive system. This high-speed shaft revolution causes the rapid lifting and downward ramming motion of the machine as well as imparting a forward motion.

# Operation

## Adding Fuel

Fill the fuel tank as instructed in the separate Engine Manual packed with the Plate Compactor.

More detailed description of the engine operation and all related precautions and procedures can be found in the Engine Manual packed separately with the unit.

## Starting the Engine

1. Move the fuel valve lever to the ON position.
2. To start a cold engine, move the choke to the CLOSE position.  
To restart a warm engine, leave the choke lever in the OPEN position.
3. Move the throttle lever away from the SLOW position, about 1/3 of the way toward the FAST position.
4. Turn the engine switch to the ON position.
5. Operate the starter.

## Operating the Plate Compactor



**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.**

1. After engine warms up, pull throttle lever to accelerate engine speed. Plate will begin vibrating and move forward.
2. The plate compactor is designed to run at an engine speed (engine take off shaft) of 3600 rpm (Normally considered full throttle). Running the engine at lower rpms will result in a decrease of compaction force and lower travel speed. It will create excessive “out-of-synch” vibrations resulting in poor compaction, manoeuvrability, excessive wear to the machine, and discomfort to the operator.
3. In operation, guide the machine, but let the compactor do the work. Bearing down on the handle is unnecessary and causes shock absorber wear.
4. On level surfaces the compactor moves forward rapidly. On uneven surfaces or inclines, light forward pressure on handle may be required to assist the compactor in moving forward.
5. The number of passes required to reach a desired compaction level will depend on the type and moisture content of soil. Maximum soil compaction has been reached when excessive kickback is noticed.



**When using a compactor on asphalt, Water Sprinkler Kit is required to help prevent the bottom plate from adhering to the hot asphalt surface.**

**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.**

**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 compacting. This will also reduce service to the air filter.**

## Stopping the Engine

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure.

1. Move the throttle lever to the SLOW position.
2. Let engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF position.



**Do not move the choke control to CLOSE to stop the engine. Backfire or engine damage may occur.**

## Idle Speed

Set throttle control lever to its “low” position to reduce stress on the engine when compacting is not being performed. Lowering the engine speed to idle the engine will help extend the life of the engine, as well as conserve fuel and reduce the noise level of the machine.

# Maintenance and Storage

Maintaining your compactor will insure long life to the machine and its components.

## Preventive Maintenance

1. Turn off engine. Engine must be cool.
2. Keep the engine's throttle lever in its SLOW position and remove spark plug wire from spark plug and secure.
3. Inspect the general condition of the plate compactor. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
4. Remove all debris from the plate compactor with a soft brush, vacuum, or compressed air. Then use a premium quality lightweight machine oil to lubricate all moving parts.
5. Clean the bottom of the compactor base as soon as it begins to pick up soil being compacted. The unit cannot do a good job if the bottom surface is not smooth and clean.
6. Replace spark plug wire.

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 **Never use a “pressure washer” to clean your plate compactor. Water can penetrate tight areas of the unit and cause damage to spindles, pulleys, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.**

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## Checking the V-Belts

To ensure optimum power transmission from the engine to the eccentric shaft, the V-belt(s) must be in good condition and operate under proper tension.

1. Turn off engine. Engine must be cool.
2. Remove the belt guard to access the V-belt(s).
3. Check the condition of the V-belt(s). If any V-belt is cracked, frayed, or glazed, it should be replaced as soon as convenient.
4. Check the V-belt tension by squeezing them in the centre. The normal deflection on each side should be 9mm (3/8") to 13mm (1/2") with moderate pressure from your thumb or finger.

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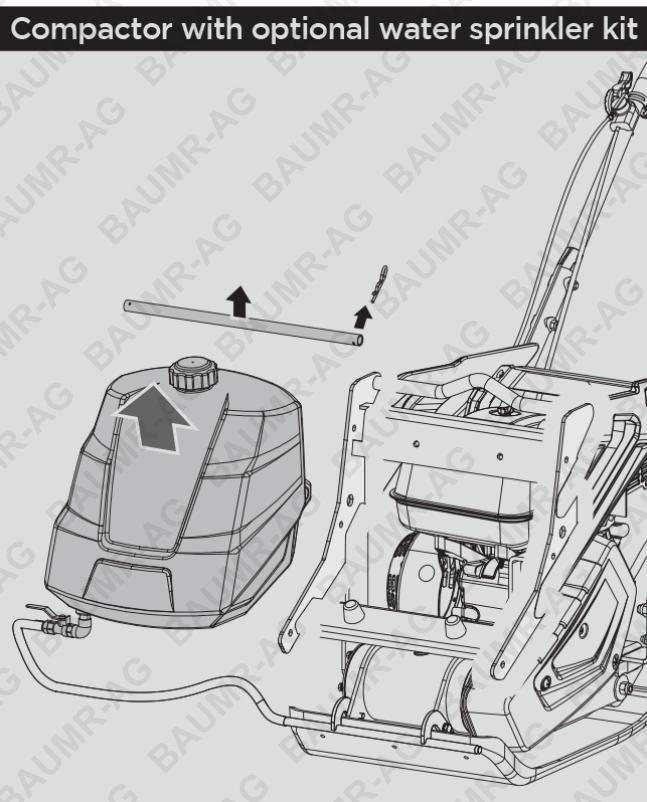
 **On new machines or after installing a new belt, check belt tension after first 20 hours of operation. Check and adjust belt every 50 hours thereafter.**

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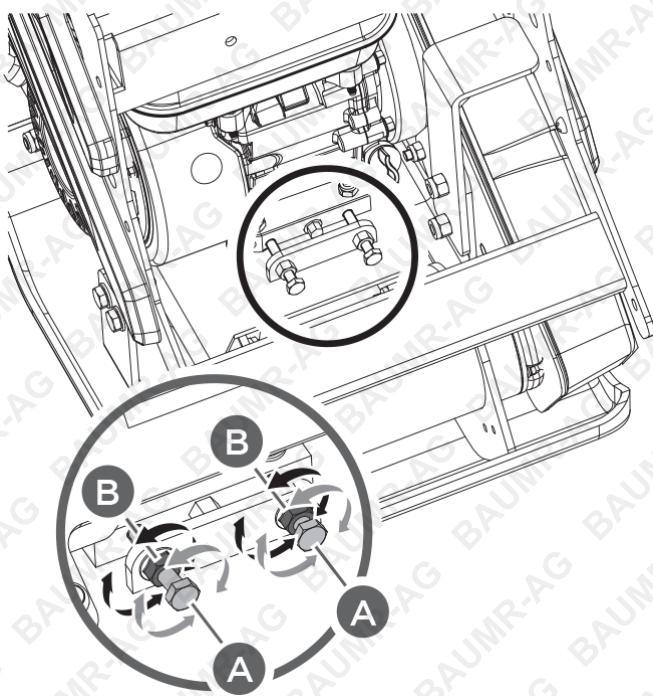
## Tensioning the V-Belts

Proper belt tension is critical to good performance. Proper adjustment will assure long belt life. Too much or too little belt tension will cause premature belt failure.

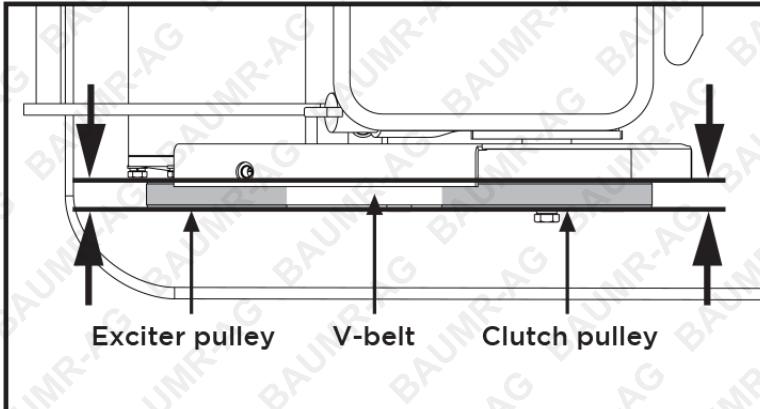
1. Remove the metal cover or water tank.
2. Loosen 6 engine mount bolts (do not remove) only enough to move the engine forward.



3. Loosen the jam nuts B, leaving enough space between the nut and bracket.



4. Push engine toward the back of the plate by turning the adjustment bolts A to remove any slack in V-belt(s).



**When adjusting the belt(s), make sure that the clutch pulley is in alignment with exciter pulley.**

5. When the V-belt tension is correct, tighten the jam nuts B against the bracket.
6. Tighten the engine mount bolts.
7. Replace the belt guard.



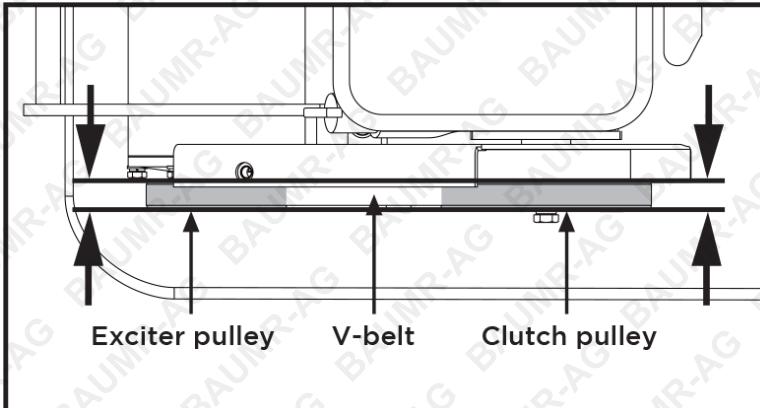
**If the adjustment bolts have no more adjustment left, the belt(s) may have to be replaced.**

## Replacing the V-Belts



**Both V-belts should be replaced at the same time because they will wear evenly through normal use. Work on one belt at a time.**

1. Loosen 4 engine mount bolts (do not remove) only enough to move the engine forward.
2. Loosen the jam nuts B and bolts A shown in above figure.
3. Slide the engine toward the front of plate and slip the old V-belt(s) off the wheel pulley and install the new V-belt(s) in their place.



4. Position the V-belt(s) over the engine pulley.
5. Move the engine back.



**When adjusting the belt(s), make sure that the clutch pulley is in alignment with exciter pulley.**

6. When the V-belt tension is correct, tighten the jam nuts B and the engine mount bolts.
7. Replace the belt guard.



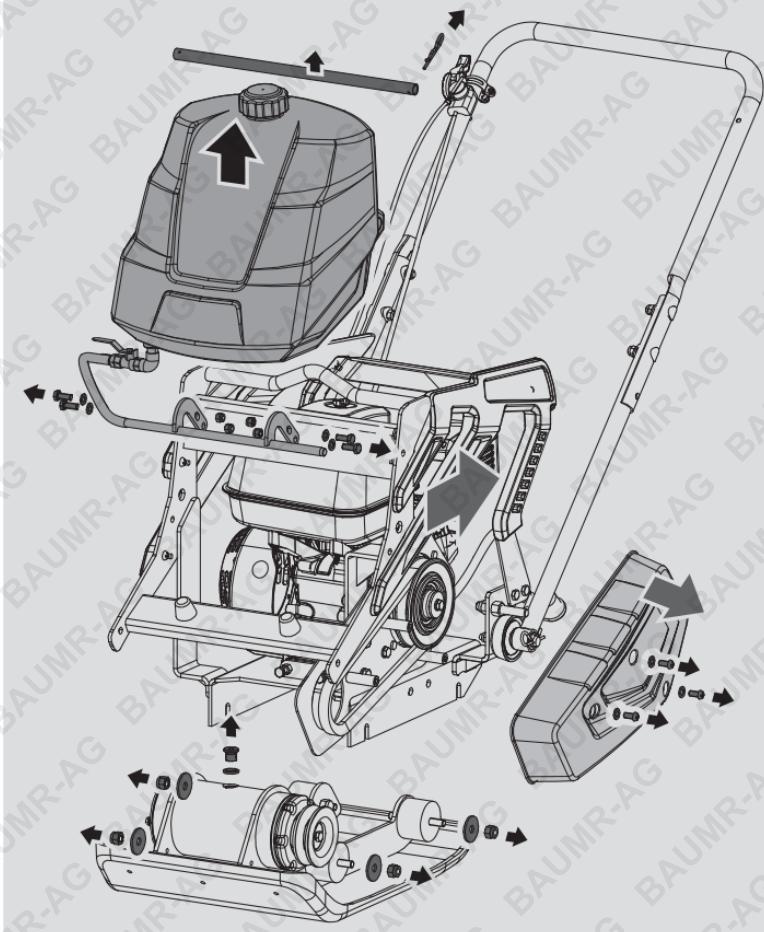
**When removing or installing the drive belt(s), be careful not to get your fingers caught between the belt and pulley.**

## Exciter Lubrication

The exciter housing is pre-serviced using Automatic Transmission Fluid Dextron III, Mercon, EXXON (ESSO) NUTO H-32 or its equivalent. Change fluid after 200 hours of operation.

1. Let exciter cool before changing exciter oil.
2. Remove the belt guard and V-belt(s).

### Compactor with optional water sprinkler kit

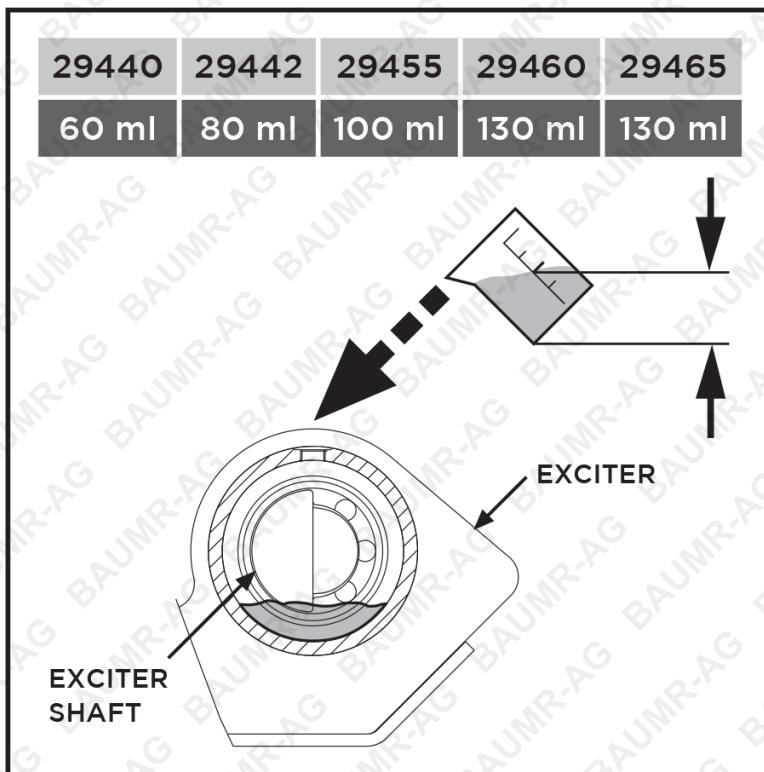


3. Remove the bolts that hold the deck to the housing.
4. Lift entire deck with engine from housing.

5. Remove pipe plug from top of exciter housing. Tilt housing upside down so oil drains from exciter. Examine oil for metal chips as a precaution to future problems.



6. Return plate housing to the upright position.
7. Fill the exciter housing with exciter oil.



**Do not overfill - overfilling can result in excessive temperatures in the exciter.**

8. Apply pipe sealant to pipe plug and reinstall into top of exciter housing.
9. Reinstall deck, V-belt(s) and belt guard.

## Engine Maintenance

Refer to the Engine Manual included in your plate compactor for the information on engine maintenance. Your engine manual provides detailed information for performing the tasks.

## Storage

If the plate compactor will not be used for a period longer than 30 days, following the steps below to prepare your unit for storage.

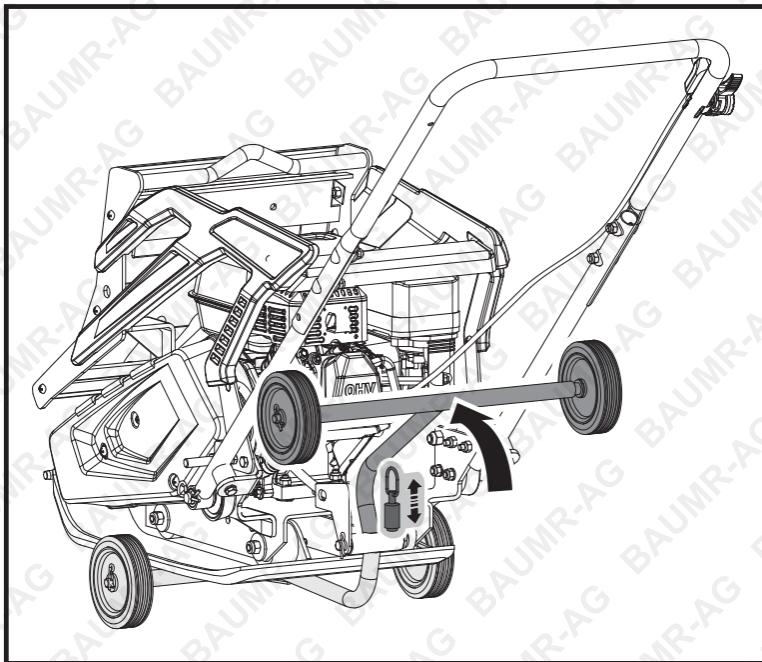
1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburettor and restrict fuel flow.
2. Start the engine and allow it to run until it stops. This ensures no fuel is left in the carburettor. Run the engine until it stops. This helps prevent deposits from forming inside the carburettor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the Engine Manual.
4. Allow the engine to cool. Remove the spark plug and put 60 ml of SAE-30 of high-quality motor oil into the cylinder. Pull the starter rope slowly to distribute the oil. Replace the spark plug.
5. Use a clean cloth to clean off the outside of the compactor and to keep the air vents free of obstructions.

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**!** Remove the spark plug and drain all the oil from the cylinder before attempting to start the unit after storage. Do not use strong detergents or petroleum-based cleaners when cleaning plastic parts. Chemicals can damage plastics.

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6. Pull up the spring bolt and fold up the wheels bracket.

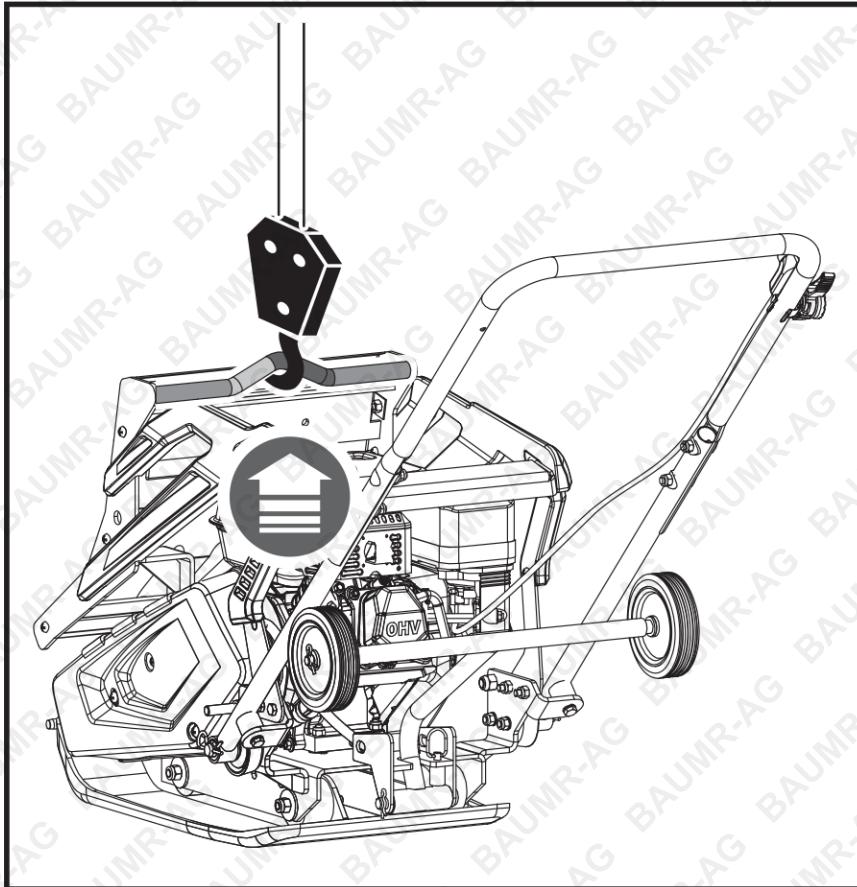


7. Store your plate compactor in upright position in a clean, dry building that has good ventilation.

# Lifting/Transporting

See technical data for the weight of the machine.

To avoid burns or fire hazards, let engine cool before lifting / transporting machine or storing indoors.



The unit must be transported in the upright position to prevent fuel from spilling. Do not lay machine on its side or top. Secure or tie down unit using the lifting handle to prevent machine from sliding or tipping over.



**Machine may fall and cause damage or injury if lifted incorrectly. Lift using handles at base of plate.**

# Troubleshooting

Problem	Cause	Remedy
Engine fails to start.	<ol style="list-style-type: none"> <li>1. Spark plug wire disconnected.</li> <li>2. Out of fuel or stale fuel.</li> <li>3. Throttle control lever not in correct starting position.</li> <li>4. Choke not in ON Position.</li> <li>5. Blocked fuel line.</li> <li>6. Fouled spark plug.</li> <li>7. Engine flooding.</li> </ol>	<ol style="list-style-type: none"> <li>1. Attach spark plug wire securely to spark plug.</li> <li>2. Fill with clean, fresh gasoline.</li> <li>3. Move throttle control lever to start position.</li> <li>4. Throttle must be positioned at choke for a cold start.</li> <li>5. Clean the fuel line.</li> <li>6. Clean, adjust gap, or replace.</li> <li>7. Wait a few minutes to restart, but do not prime.</li> </ol>
Engine runs erratically.	<ol style="list-style-type: none"> <li>1. Spark plug wire loose.</li> <li>2. Unit running on CHOKE.</li> <li>3. Blocked fuel line or stale fuel.</li> <li>4. Vent plugged.</li> <li>5. Water or dirt in fuel system.</li> <li>6. Dirty air cleaner.</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect and tighten spark plug wire.</li> <li>2. Move choke lever to OFF.</li> <li>3. Clean fuel line. Fill tank with clean, fresh gasoline.</li> <li>4. Clear vent.</li> <li>5. Drain fuel tank. Refill with fresh fuel.</li> <li>6. Clean or replace air cleaner.</li> </ol>
Engine overheats.	<ol style="list-style-type: none"> <li>1. Engine oil level low.</li> <li>2. Dirty air cleaner.</li> <li>3. Air flow restricted.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill crankcase with proper oil.</li> <li>2. Clean air cleaner.</li> <li>3. Remove blower housing and clean.</li> </ol>
Engine will not stop when throttle control is positioned at stop, or engine speed does not increase properly when throttle control is adjusted.	Debris interfering with throttle linkage.	Clean dirt and debris.
Compactor is difficult to control when pounding (machine jumps or lurches forward)	Too high engine speed on hard ground.	Set the throttle lever at lower speed.

# Specifications

<b>Model</b>	BCX800
<b>Engine Type</b>	7HP OHV
<b>Displacement</b>	208cc
<b>Type</b>	Vibratory
<b>Application</b>	Soil
<b>Starting System</b>	Recoil pull start
<b>Fuel Type</b>	Regular Unleaded 95 +RON
<b>Fuel Tank Capacity</b>	3.6L
<b>Oil Capacity</b>	0.7L
<b>Operation Mass</b>	93kg
<b>Water Tank Capacity</b>	14L
<b>Centrifugal Force</b>	13kN
<b>Walk Speed</b>	15m/min
<b>Plate Size</b>	545x400mm
<b>Compaction Depth</b>	300mm (Soil)
<b>Frequency</b>	5500vpm



**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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