



OWNER'S MANUAL

REVERSIBLE HYDRAULIC COMPACTORS

BR1570, BR2750, BR3570, BR4600, BR5100



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**ORIGINAL LANGUAGE OPERATING MANUAL FOR
BARTELL GLOBAL REVERSIBLE PLATE COMPACTORS**

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SAFETY PRECAUTIONS



DANGER – EXPLOSION HAZARD

Never operate the machine in an explosive atmosphere, near combustible materials, or where ventilation does not clear exhaust fumes.



WARNING – BURN HAZARD

Never touch the engine or muffler when engine is operating or shortly after it is turned off. Serious burns may occur.



CAUTION – MACHINE DAMAGE

Never operate on hard, unyielding surfaces. Unwarranted damage may result.



CAUTION – MOVING PARTS

Before starting the machine, ensure that all guards and safety devices are in place and functioning properly.



ATTENTION – READ OWNER'S MANUAL

Read and understand owner's manual before using this machine. Failure to follow operating instructions could result in serious injury or death.

PERSONAL PROTECTIVE EQUIPMENT	
	Hearing Protection Wear earplugs or ear muffs to protect hearing from potentially damaging noise levels
	Eye Protection Wear eye protection to protect eyes from blowing dust and flying debris
	Safety Footwear Wear safety footwear to protect feet from falling objects, compression and punctures or cuts from surrounding and below
	Hand Protection Wear heavy or padded gloves to protect hands and arms from harmful effects of vibration

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QUALITY ASSURANCE/ MACHINE BREAK IN

The Bartell Global Plate Compactor is the product of extensive engineering development designed to give long life and unmatched performance. They are shipped completely assembled and only require engine oil and fuel in preparation for operation. The exciter housing is pre-serviced with oil at the factory.

You can help ensure that your Plate Compactor will perform at top levels by observing a simple routine on first use. Consider that your new Compactor is like a new car. Just as you would “break in” a new car to the road, the same concept applies to new machines on a job site: start slowly, and gradually ease up to full capacity. Take a little time to get to know your machine, learn what it can (and cannot) do, and how it responds under a range of conditions.

Refer to the engine manual for specific run-in times. Full throttle and control may be used after the recommended period, as allowed by other factors, such as material, climate, etc. This will serve to acclimate the machine to your specific application, and provide you with additional practice using the machine.

We thank you for the confidence you have placed in us by purchasing a Bartell Global Plate Compactor, and wish you many years of satisfied use.

WARRANTY INFORMATION

Bartell Global agrees to furnish without charge, F.O.B. our plant, a replacement for any part or portion thereof, comprising the main unit of the Bartell Global Vibratory Plate Compactor, consisting of the exciter housing assembly, save and except drive belts, and power units, prove upon our examination, to be defective in either material or workmanship within a period of twelve (12) months from date of purchase, provided that notice of such defective part or portion thereof is given to Bartell Ltd. within the twelve month warranty period. No further or other guarantee or warranty expressed or implied in connection with the sale of the Compactor is given and our sole liability consists in replacing defective parts or portions thereof. We shall not be responsible for any special, indirect or consequential damages arising in any manner whatsoever.

This guarantee is for the sole benefit of the original purchaser as end user. Our responsibility under this guarantee ends in the case the original purchaser transfers ownership of the Vibratory Plate Compactor, makes any changes or adds any parts or devices not of our manufacture to the Compactor machine.

SPECIFICATIONS

	BR1570	BR2750	BR3570	BR4600		BR5100
Dimensions				GAS	DIESEL	
Overall Length, mm (in)	886 (35")	1130 (45")	1340 (53")	1570 (62")		1610 (64")
Overall Width, mm (in)	350 (14")	430 (17")	450 (18")	485 (19")		500 (20")
Overall Height, mm (in)	880 (35")	920 (36")	960 (38")	930 (37")		930 (37")
Plate Size (WxL), mm (in)	350 x 480 (14" x 19")	700 x 430 (17" x 29")	450 x 700 (18" x 28")	485 x 860 (19" x 34")		500 x 900 (20" x 36")
Weight						
Net Weight, kg (lb)	88 (193)	160 (353)	240 (529)	350 (772)	372 (820)	427 (941)
Operating Weight, kg (lb)	93 (203)	168 (370)	250 (551)	360 (794)	377 (830)	432 (1041)
Performance						
Travel Speed, m/min (ft/min)	Forward: 0-25 (0-82)	Forward: 0-25 (0-82)	Forward: 0-25 (0-82)	Forward: 0-23 (0-75)		Forward: 0-23 (0-75)
	Backward: 0-25 (0-82)	Backward: 0-25 (0-82)	Backward: 0-23 (0-75)	Backward: 0-23 (0-75)		Backward: 0-25 (0-82)
Vibrating Frequency, Hz (vpm)	100 (6000)	90 (5400)	87 (5200)	73 (4400)		73 (4400)
Centrifugal Force, lbF [kN (kgf)]	3461 [15(1570)]	6063 [27(2750)]	7868 [35(3570)]	10141 [45(4600)]		11244 [50 (5100)]
Water Tank Capacity gal (L)	4 (15)	4 (15)	4 (15)	N/A		N/A
Power Source						
Manufacturer	Honda	Honda	Honda	Honda	Yanmar	Yanmar
Model	GX160	GX200	GX270	GX390	L100W	L100W
Max Output, hp (kW)	4.8 (3.6)	5.5 (4.1)	8.5 (6.3)	11.7(8.7)	9.3(6.9)	9.3(6.9)
Engine Speed, rpm	3600	3600	3600	3600		3600
Fuel Tank Capacity, US qts (L)	3.3(3.1)	3.3(3.1)	5.6(5.3)	5.6(5.3)	5.7(5.4)	5.7(5.4)
Starting System	Recoil	Recoil	Recoil	Recoil		Electric + Recoil
Options						
Wheel Kit	Included	Included	Included	N/A		N/A
Extension Plate	N/A	N/A	Available	Available		Available

PREVENTATIVE MAINTENANCE AND ROUTINE SERVICE PLAN

This Bartell Vibratory Plate Compactor has been assembled with care and will provide years of service. Preventative maintenance and routine service are essential to the long life of your Compactor. Your dealer is invested in your success and wants to help you get the most value from it. After reading through this manual thoroughly, most owners find they can do some of the regular maintenance themselves. However, when in need of parts or major service, it is important to consult a trusted Bartell Global dealer.

When in need of parts or service, be prepared to provide the serial number and other relevant information. For your convenience, we have provided this space to record the data so it is easily referred to when you need it. Locate the serial number now and record in the space below.

Date Purchased:		Type of Machine:	
Dealer Name:		Model:	
Dealer Phone:		Serial Number:	

[illegible]

ROUTINE SERVICE SCHEDULE

Routine Service Intervals		Each Use	After first 1.5 months or 50 hrs	Each 3 months or 100 hrs	Each 6 months or 200 hrs	Each 9 months or 300 hrs	Each 12 months or 400 hrs
General Inspection							
Guards	Check	O					
Warning Stickers	Check	O					
Test Run	Check Operation	O					
Engine							
Engine Oil	Check level	O					
	Replace		O		O		O
Air Cleaner	Check, clean	O (1)					
	Replace			O (1)			
Spark Plug	Check, adjust			O	O		O
	Replace					O (2)	
Air Intake Line	Check				O		
	Replace						2 yrs
Fuel Filter	Check, clean			O			
	Replace				O		
Idle Speed	Check, adjust					O (2)	
Valve Clearance	Check, adjust					O (2)	
Combustion Chamber	Clean						500 hrs (2)
Fuel Tank	Clean			6 mo or 100 hrs (2)			
Fuel Tube	Check						2 yrs (2)
Engine Wiring	Check						O
Exciter							
Exciter Oil	Check level	O					
	Change				O		O
Drive Belt	Check tightness	O					
	Change				O		O
Hydraulic System							
Hydraulic Oil	Check level	O					
	Change				O		O

(1) Service more frequently in dusty areas

(2) These items should be serviced by your servicing dealer unless you have the proper tools and are mechanically proficient. Refer to the Engine shop manual for service procedures.

ROUTINE SERVICE INTERVALS

Due to the nature and environment of use, plate compactors are often exposed to severe operating conditions. Some general maintenance guidelines will extend the useful life of your machine.

- The initial service for the compactor should be performed after 25 hours of use, at which time your mechanic (or authorized repair shop) should complete all the recommended checks in the schedule above. The chart on page 8 (Eight) is handy for keeping a record of the maintenance performed and the parts used for servicing your compactor.
- Regular service according to the schedule above will prolong the life of the machine and prevent expensive repairs.
- Keeping your plate compactor clean and free of debris is the single most important regular maintenance operation that can be performed, over and above the routine outlined in the schedule above. After each use, the compactor should be cleaned to remove any dust and debris from the undercarriage and surrounding components. Use of a power washer will make clean up quick and easy, especially if a non-stick coating was applied prior to use.
- In the Service Schedule above, items that should be checked, replaced or adjusted are indicated by “o” in the appropriate column. Not all plate compactor models include the same features and options, and as such, certain listed service operations may not be applicable. For ease of recording, place a checkmark through the “o” when the item is complete. If an item is not required or not completed place an “x” through the “o” in the box.
- All compactors have governed engine speed of 3600 rpm. See engine manufacturer’s manual for exact specifications. Care should be used when making any adjustments to the compactor not to change the governed engine speed. Running the engine at speeds outside of these specifications will result in a decrease of compaction force and lower travel speed. It will create excessive “out-of-synch” vibrations resulting in poor compaction, maneuverability, excessive wear to the machine, and operator discomfort.
- Failure to have your vibratory plate compactor regularly serviced and properly maintained in accordance with the manufacturer’s instructions will lead to premature failure and void the warranty.

SAFETY PRECAUTIONS

Bartell Global plate compactors are equipped with safety guards in accordance with North American and International standards. The fully enclosed belt guard protects the operator from the main drive belt. The handle is equipped with independent vibration isolation from the motor plate, reducing operator discomfort and vibration related injuries.

IMPORTANT: NEVER attempt to disable or circumvent these safety devices. They are present for the operator's protection and any tampering will result in substantial risk to the operator and all present at the job site. If your compactor's safety devices have been tampered with, do not use the equipment. Immediately contact your sales representative to obtain replacement parts or return the compactor to your dealer for repairs.

The instructions provided in this manual are done so to ensure the operator's safety as well as that of others, the equipment, and the job site. Failure to follow these guidelines can lead to serious personal injury and even death. The operator and any service personnel should read and understand the entire manual before working with or servicing any Bartell Plate Compactor.

- Print this manual, and always keep it accessible to any persons working with the machine. Replacement manuals can be downloaded at BartellGlobal.com or requested from your local dealer.
- Only use parts and attachments supplied or approved by your Bartell Global equipment manufacturer. The consequences of modifying the design of this equipment can include personal injury, equipment failure, and voiding your warranty. If you are unsure about a repair or an apparent malfunction, contact your Bartell Global dealer or the phone contacts listed at the beginning and end of this manual.
- Technical service bulletins, manual updates, and other information are posted at BartellGlobal.com. Check this website periodically for updates or other useful information about your equipment.
- NEVER use gasoline-powered equipment in an enclosed space with poor air flow, such as a basement or small room. The gasoline engine produces carbon monoxide gas and other toxic gasses. Without proper ventilation, this gas will build up and cause health effects such as organ damage and death to anyone in the vicinity.

- The Compactor operator must always be lucid and aware of their surroundings. NEVER operate the Compactor while under the influence of drugs, alcohol, fatigue, sickness, hangover, depression, emotional distraction, or medications/substances that may affect motor skills or judgment.
- ALWAYS wear the appropriate personal protective equipment (PPE) while operating a Bartell Global Plate Compactor. This includes (but is not limited to) safety glasses, hearing protection, protective footwear, and heavy or padded gloves. Additional safety gear may be appropriate depending on jobsite conditions.
- NEVER leave equipment unattended while running.
- ALWAYS ensure that the operator has been properly trained prior to use.
- Children and small animals should NEVER be present during use.
- ALWAYS check the machine for loose or missing nuts and bolts before starting. Tighten any loose fasteners and replace missing or broken parts.
- Perform all routine maintenance as described within this manual. Failure to do so will void your warranty and will eventually result in premature equipment failure.
- NEVER perform maintenance while equipment is running. Shut down the engine and allow it to cool before servicing a Bartell Global Plate Compactor, including any mechanical work or lubrication.
- ALWAYS replace missing, damaged or unclear safety labels to ensure operator awareness and safety.
- NEVER operate a Bartell Global Plate Compactor with missing or damaged safety guards. Replace immediately with appropriate parts.
- NEVER put hands, feet, or other appendages (even while wearing protective clothing) inside the belt guard or between the plate and bridge while the engine is running, even at idle, as serious injury may result.
- NEVER wear loose fitting clothing or jewelry near or while operating equipment as it may become entangled in the machinery, resulting in serious injury.
- NEVER refuel while the engine is running. Ensure the engine has cooled sufficiently before refueling to avoid igniting gasoline fumes.

- ALWAYS refuel the machine in a well-ventilated area, away from ignition sources such as sparks, flames, and lit cigarettes. Smoking while fueling the equipment may result in explosion.
- NEVER operate a Bartell Global Plate Compactor in explosive environments, such as those where paint fumes, methane, natural gas, fine particulate, aerosol propellant, or solvent fumes are present.
- NEVER smoke nearby as stray gasoline fumes may ignite. Operating a Bartell Global Plate Compactor around an open flame may result in explosion.
- ALWAYS shut down the engine and allow it to cool before lifting or transporting.
- ALWAYS tie down equipment when being transported in a truck or on a flatbed. Empty the fuel tank if transporting over long distances.
- NEVER attempt to lift a Bartell Plate Compactor alone, always lift with a mechanical aid.

OPERATION INSTRUCTIONS

INITIAL SET-UP

- Your Bartell Plate Compactor may come fully assembled, with the handle and engine already installed. If the handle has been removed for shipping, it must be reinstalled before the equipment can be used. Assemble the handle using the included rubber vibration dampers, washers and bolts.
- Attach the throttle cable to the engine throttle and test the motion of the engine's throttle lever with the motion of the throttle control on the handle.
- Bartell Global Reversible Compactors **minimal engine oil and no gasoline**, so fill these fluids per your engine's instruction manual before proceeding.
- When starting an engine for the first time, or after a long period of storage, several pulls may be required before the engine runs.
- NEVER add fuel or oil while the engine is running. Shut down the engine and allow it to cool before opening the fuel cap for refueling. NEVER smoke while handling gasoline. If gasoline is spilled anywhere on or around the equipment wipe it up and allow the fumes to clear before starting the engine.

PRE-OPERATION INSPECTION

- Make sure that all dirt, mud, etc., are thoroughly removed from the unit prior to operation. Special effort should be given to the bottom face of the vibrating plate and those areas adjacent to the cooling air inlet of engine, carburetor, and air cleaner.
- Check all bolts and screws for tightness and make sure all bolts and screws are securely tightened. Loose bolts and screws may cause damage to the unit.
- Check the V-belt for tightness. The normal slack should be approximately 10-15mm (1/2") when the belts are forcibly depressed in the middle position between the two sheaves. If there is excess belt play, there could be a decrease in the impact force or erratic vibration, causing machine damage.
- Check the engine oil level and if the engine oil level is low, refill it as specified in the engine manufacturer manual. (Figure 1)



Figure 1

- Check exciter oil. Remove the oil plug and check the oil level. Make sure the compactor is level when checking. The oil level should be up to the bottom of the oil plug. Refill with 10W30. Replace the exciter oil every 6 months / 200 hours of operation. (Figure 2)

Model	Exciter Oil Volume
BR1570, BR2750	450ml / 15oz
BR3570	550ml / 19oz
BR4600, BR5100	600ml / 20oz



Figure 2

- Check hydraulic oil level by removing the fill plug at the top of the handle. Oil should be level with the oil level line on the back of the hand pump. Refill with NUTO-H32 hydraulic oil (max volume is 450ml / 15 oz). (Figure 3)



Figure 3

IMPORTANT:

- When changing the exciter oil, drain oil by tipping the unit. The oil will drain easily while it is hot.
 - For gas models, regular unleaded gasoline should be used. For diesel models, use diesel fuel. Use the fuel filter when filling the fuel tank, and never mix oil with fuel.
- Keep in mind, extreme seasonal temperatures may call for different oil weights. Consult the table below for general guidelines, and research best practice in your region.

Season	Temperature	Grade of Oil
Summer	25C or higher	SAE #30
Spring/ Fall	10C- 25C	SAE #30, #20
Winter	0C-10C	SAE#10

OPERATING PRINCIPLE

An eccentric weight mounted on the exciter shaft contained within the 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. 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 rpm's will result in a decrease of compaction force and lower travel speed. It will create excessive "out-of-synch" vibrations resulting in poor compaction, maneuverability, excessive wear to the machine, and discomfort to the operator.

START-UP PROCEDURE

Fill fuel tank with clean UNLEADED GASOLINE ONLY, using safety-approved containers. DO NOT MIX OIL WITH GASOLINE.

Warm Climate: Open fuel valve on gas tank. Set throttle lever to "Fast" idle position. Set choke to closed position. Flip engine power switch to ON. Flip secondary power switch (on the handle) to ON. Pull recoil start cable. Adjust choke to prevent flooding, moving it to "Open" or "Run" position as the engine warms up. Allow engine to idle for 2–4 minutes before operating.

Cold Climate: Follow same procedure as above, but allow longer warm-up period (3–5 minutes). In cold weather, oil is much heavier to move and requires more time to work its way into the moving parts. If maximum power is not attained, allow more time to warm-up.

OPERATION

1. Raise the throttle to engage the exciter & start compacting (Figure 4). When the engine speed reaches around 2300rpm, centrifugal clutch will be engaged. The throttle should be operated quickly without hesitation, because increasing the engine speed slowly causes the clutch to slip.
2. Machine will travel forward. Pull travel lever up/back to reverse travel direction. When released, lever will return to forward position and machine will once again move forward. Hold lever in neutral position for vibration in place. (Figure 5)
3. When compacting soil with higher clay content, traveling speed may drop because compaction plate does not leave ground surface as easily. Check to see if clay has stuck to the bottom of the plate. The compactor will not be as efficient on clay or soil with high moisture content. For better results, allow such soil to dry somewhat, or carry out compaction twice.



Figure 4



Figure 5

SHUT-DOWN PROCEDURE

Gas Models: Throttle engine down. Let idle for 2-4 minutes. Flip engine power switch OFF. Flip secondary power switch OFF.

Diesel Models: Throttle engine down (Leave throttle lever open at 30 degrees). Let idle for 2-4 minutes. Turn key to OFF position or fully close throttle and turn the key to OFF position.

IMPORTANT: Battery light, on key switch, stays on when key is in run position. Ensure key is in off position when engine is not running to avoid draining the battery

STORAGE

The following steps should be taken to prepare the plate compactor for extended storage.

1. Close fuel valve.
2. Siphon excess gasoline from tank.
3. Run the engine until it stops from lack of fuel. This will use up all the fuel in the carburetor and prevent formation of deposits due to evaporation of fuel.
4. Remove spark plug and pour 2 oz. of SAE 10W-30 motor oil into the cylinder. Slowly crank the engine 2 or 3 times to distribute the oil throughout the cylinder. This will help prevent rust during storage. Replace spark plug.
5. Store the unit in an upright position in a cool, dry, well-ventilated area.

MAINTENANCE

Proper maintenance, inspection and storage of your Bartell Global Plate Compactor is vital to preserving the performance of your equipment. The most important daily activity is to keep the equipment clean and prevent the build-up of mud and caked-on dust and dirt. Clean with spray from a hose or pressure washer. Remove all dirt and residue from the surface of the equipment, including the space between the bridge and plate.

AIR FILTER

Keep the air filter clean at all times. Wash away dust and debris using a non-oil-based cleaning solvent. Let the filter dry before re-installing.

LUBRICATION

Check engine oil regularly. Refill and replace oil as recommended in the engine owner's manual (provided separately).

SPARK PLUG

Check and clean the spark plug regularly. A fouled, dirty or carboned spark plug causes hard starting and poor engine performance. Set spark plug gap to recommended clearance. Refer to engine manual.

BELT TENSION – IMPORTANT!

A loose belt will decrease the impact force and cause erratic vibration, which could damage the machine. The normal belt play should be 10-15mm (1/2") which is attained by depressing the top section of the belt at the belt guard mounting bracket location. When adjusting the belt make sure that the clutch is in alignment with exciter pulley. Tighten all engine mount bolts, adjust the two upper bolts, and tighten lock nuts.

DECLARATION OF CONFORMITY

Declaration of Conformity / Certificat de conformité / Gelijkvormigheids certificaat Declaración de Conformidad / Declaração de Conformidade / Dichiarazione Di Conformità

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Declare under our sole responsibility that the product to which this declaration relates is in conformity with the following standard(s) or other normative documents.

Déclarons sous notre responsabilité que le produit cette déclaration est conforme aux normes suivantes ou d'autres documents habituels.

Verklaren onder onze verantwoordelijkheid dat het product naar welke de verklaring verwijst conform de volgende standaards of anders gebruikelijke documenten is.

Declaramos bajo nuestra única responsabilidad que el producto en lo que esta declaración concierne, es conforme con la siguiente normativa u otros documentos.

Declara sob sua responsabilidade que o produto a quem esta declaração interessar, está em conformidade com os seguintes documentos legais ou normas directivas.

Dichiariamo sotto la ns. unica responsabilità che il prodotto al quale questa dichiarazione si riferisce, è fabbricato in conformità ai seguenti standard e documenti di normative.

EN 349:1993 – Safety of Machinery - Minimum gaps to avoid crushing of parts of the human body.

EN 418:1993 – Safety of Machinery - Emergency stop equipment, functional aspects - Principles for design

EN 12100-1:2003 – Safety of Machinery - Basic Concepts, general principles for design - Part 1: Basic Terminology, methodology

EN 12100-2:2003 – Safety of Machinery - Basic Concepts, general principles for design - Part 2: Technical Principles

EN ISO 4872:1978 – Acoustics - Measurement of Airborne noise emitted by construction equipment intended for outdoor use - Method for determining compliance with noise limits.

EN ISO 5349-1:2001 – Mechanical vibration. Measurement and evaluation of human exposure to hand-transmitted vibration. General requirements

EN ISO 5349-2:2001 – Mechanical vibration. Measurement and assessment of human exposure to hand-transmitted vibration. Practical guidance for measurement at the workplace.

Following the provisions of Directive(s) / Suivant les directive(s) déterminées / Volgens de vastgestelde richtlijnen / Siguiendo las directiva(s) / No seguimento das clausulas da Directiva(s) / Seguendo quanto indicato dalla Direttiva(s):

98/37/EC	Machinery Directive
2000/14/EC	Noise Directive
2001/95/EC	General Product Safety Directive
2002/95/EC	Reduction of Hazardous Waste Directive

— CONTRACTOR PROVEN EQUIPMENT SINCE 1946 —



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