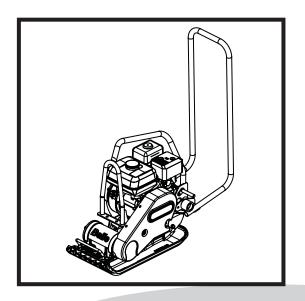
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BELLE ALTRAD PCLX 32, 325 & 40



GB Operators Manual

UKCA Declaration of Conformity

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EC Declaration of Conformity



Declaration Of Conformity (DOC)

We, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB** declare that the DoC is issued under our sole responsibility and belongs to the followings product(s):



	,,	
PRODUCT TYPE		
MODEL		
SERIAL No		
DATE OF MANUFACTURE		
SOUND POWER LEVEL MEASURED / (GUARANTEED)		
WEIGHT	\	

Object of the Declaration:

Single-direction plate compactor used for soil compaction on new developments, repairs and maintenance jobs with large aggregates, cohesive material or moist content.

The object of the declaration described above is in conformity with the relevant **Statutory Requirements**:

- 2008 No. 1597 Supply of Machinery (Safety) Regulations 2008

- 2001 No. 1701 Noise Emission in the Environment by Equipment for use

Outdoors Regulations 2001

The following designated standards and technical specifications have been applied:

- EN ISO 12100:2010 Safety of machinery

- EN 500-4:2011 Mobile road construction machinery. Safety.

- ISO 3744:2010 Acoustics — Determination of sound power levels and sound energy

levels of noise sources using sound pressure

ANP CERTIFICATION LTD. (Approved Body, number 8500) 2 Parkfield Street, Manchester, M14 4PN, UK carried out Internal Control of Production with Assessment of Technical Documentation and Periodical Checking as per Schedule 9 of SI 2001 1701

Technical Files are held by Ray Neilson at the Altrad Belle address stated above:-

Place of Declaration:-

Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK

Date of Declaration:-

February 2022

Signed by:

Ray Neilson

Managing Director On behalf of Altrad Belle Sheen, Derbyshire, UK

867/10000/1



EC Declaration Of Conformity (DOC)



We, Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB declare that the DoC is issued under our sole responsibility and belongs to the followings product(s):

CE

	,
PRODUCT TYPE	,
MODEL	
SERIAL No	
DATE OF MANUFACTURE	
SOUND POWER LEVEL MEASURED /(GUARANTEED)	
WEIGHT	1 1 1

Signed by:

Ray Neilson
Managing Director

On behalf of Altrad Belle, Sheen, Derbyshire, UK

Place of Declaration:-Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK Date of Declaration:-April 2021

Object of the Declaration:

Single-direction plate compactor used for soil compaction on new developments, repairs and maintenance jobs with large aggregates, cohesive material or moist content.

The object of the declaration described above is in conformity with the relevant **Union Harmonisation Legislation**:

- 2006/42/EC - New machinery directive

- 2000/14/EC - Noise - equipment for use outdoors

The following harmonised standards and technical specifications have been applied:

- EN ISO 12100:2010 Safety of machinery

- EN 500-4:2011 Mobile road construction machinery. Safety.

- ISO 3744:2010 Acoustics — Determination of sound power levels and sound energy

levels of noise sources using sound pressure

VINÇOTTE nv/sa (NB0026) located at Jan Olieslagerslaan 35, 1800 Vilvoorde, Belgium, carried out Internal Control of Production with Assessment of Technical Documentation and Periodical Checking as per Annex VI of 2000/14/EC

Technical Files are held by Armand Trenel at the following address:-

Altrad Investment Authority SAS: 150 Rue Le Pérugin, 34000 Montpellier, France.

(GB)

EU Declaration Of Conformity (DOC)

(GB)

We, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB** declare that the DoC is issued under our sole responsibility and belongs to the followings product(s):

PRODUCT TYPE

MODEL......

SERIAL No.....

DATE OF MANUFACTURE

SOUND POWER LEVEL

MEASURED /(GUARANTEED)

WEIGHT......

Signed by:

Ray Neilson

Managing Director

On behalf of Altrad Belle, Sheen, Derbyshire, UK

Place of Declaration:-Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK Date of Declaration:-April 2021

Object of the Declaration:

Single-direction plate compactor used for soil compaction on new developments, repairs and maintenance jobs with large aggregates, cohesive material or moist content.

The object of the declaration described above is in conformity with the relevant **Union Harmonisation Legislation**:

- 2014/30/EU - EMC Directive

The following harmonised standards and technical specifications have been applied:

- EN ISO 12100:2010 Safety of machinery

- EN 500-4:2011 Mobile road construction machinery. Safety.

- ISO 3744:2010 Acoustics — Determination of sound power levels and sound energy

levels of noise sources using sound pressure

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866/10000/3_GB

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Introduction



The purpose of this publication is to enable the owner/operator to maintain and use the machine efficiently. If these instructions are followed carefully they will contribute to years of efficient and profitable operation of the machines in the true Altrad Belle tradition.

The variations in operating conditions make it impossible for the company to make comprehensive or definite statements in its publications regarding performance and methods of use of its machines, or to accept any liability for any loss or damage which may result from these statements, or from any errors or omissions.

When replacements are required, insist on genuine Altrad Belle parts, as extensive damage is liable to result from the use of inferior quality parts.

In accordance with the company's policy of continuous improvement to its machines, alteration to the specifications of machines may be made at any time without notice and the company accepts no responsibility for any discrepancies which may occur between the specifications of its machines and the descriptions thereof contained in this publications.

This manual has been written to include all factory fitted options and specifications for world-wide use, but this does not imply that all or any of these are included in the standard machine configuration. Therefore local Altrad Belle Dealer's must always be consulted about machine specifications.

This manual may not in part, or in whole, be copied, photocopied, reproduced, translated, or converted to any electronic or machine readable form without written consent of Altrad Belle.

Directives with regard to the notations.

Text in this manual to which special attention must be paid are shown in the following way:



CAUTION

The product can be at risk. The machine or yourself can be damaged or injured if procedures are not carried out in the correct way.



WARNING The life of the operator can be at risk.

WARNING





Before you operate or carry out any maintenance on this machine YOU MUST READ and STUDY this manual.

KNOW how to safely use the unit's controls and what you must do for safe maintenance. (NB Be sure that you know how to switch the machine off before you switch on, in case you get into difficulty.)

ALWAYS wear or use the proper safety items required for your personal protection. If you have ANY QUESTIONS about the safe use or maintenance of this unit, ASK YOUR SUPERVISOR OR CONTACT: Altrad Belle (UK): +44 (0) 1298 84606

Serial Numbers



ENSURE you make a note of the serial numbers of your machine and always quote them in any communication with Altrad Belle or one of our dealers.

A - MACHINE SERIAL NUMBER



Machine Description

GENERAL

Mid-weight, professional compaction plate with low hand arm vibration and high performance compaction.

The ultimate combination of weight, power and versatility enables this compactor plate to perform in a multitude of applications to the highest standard.

STANDARD OPERATION

The machine is intended to be used for the following, in safe environmental conditions as described in this manual.

- · Cohesive materials (less than 20% granular) e.g clay, silt & heavy soils.
- Granular materials (more than 20% granular) e.g hard core, sand & light soils.
- · Bituminous materials e.g asphalt (tarmac), cold lay (bitumin emulsion products).

Any other use is not deemed suitable for this machine. Altrad Belle will not liable for any damage or injury resulting from any use other than outlined above. The operator will be liable.

Any unauthorised modifications or attachments are prohibited. They may affect the performance and safety of the machine, potentially resulting in damage to the machine or injury to the operator.

Use of non-genuine replacement parts may also affect the performance and safety of the machine. potentially resulting in damage to the machine or injury to the operator.

DANGER ZONE

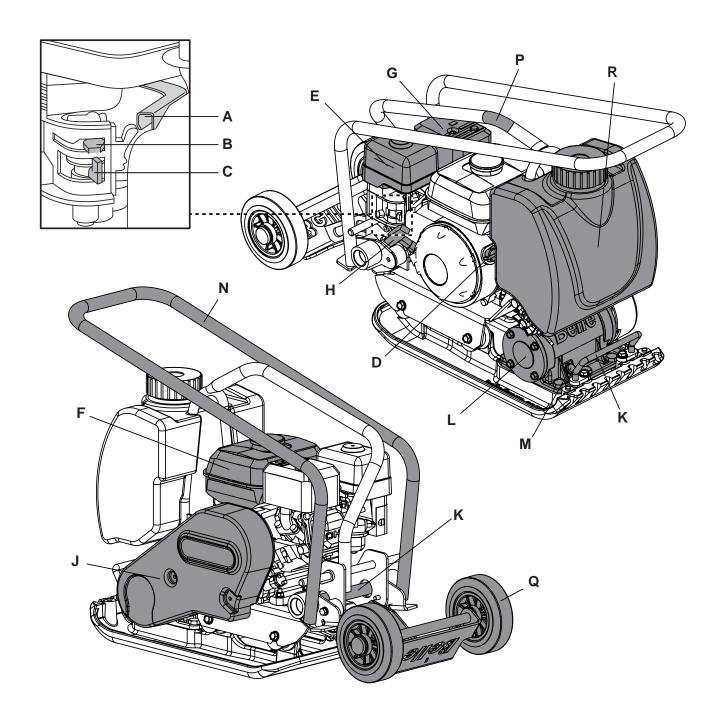
The danger zone is the area around the machine in which persons are endangered during standard operation as outlined above.

During operation of the machine, cordon off the work area and keep members of the public and unauthorized personnel at a safe distance away from the danger zone.

Machine Description

MAIN COMPONENT LOCATIONS

The main diagram below shows the version of the PCLX 32 with the Wheel Kit and Water Kit options also included.

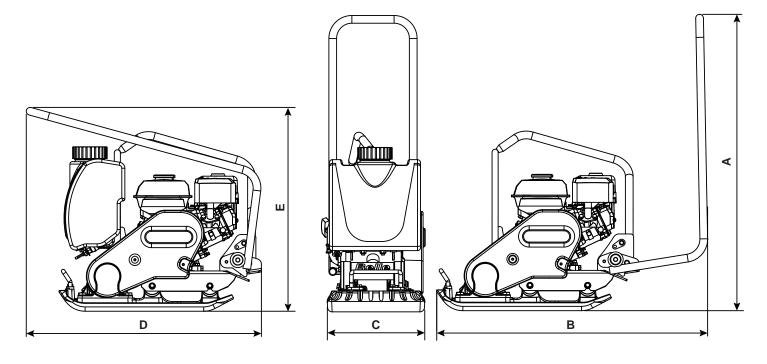


- A. Throttle lever.
- B. Choke lever.
- C. Fuel ON / OFF lever.
- D. Engine ON / OFF switch.
- E. Air Filter Housing.
- F. Fuel Tank.
- G. Exhaust.
- H. Recoil Starter Handle.

- J. Belt Guard.
- K. Hand Lifting Points.
- L. Vibrator / Vibrator Housing.
- M. Vibrator Oil Check Plug.
- N. Control Handle.
- P. Lifting Eye (for use with a mechanical hoist).
- Q. Wheel Kit Assembly (Optional).
- R. Water Kit Assembly (Optional).



Technical Data



Model	PCLX 32	PCLX 32S	PCLX 40	PCLX 32	PCLX 32S	PCLX 40	PCLX 32	PCLX 32S	PCLX 40
	Н	onda GX1	20	H	Honda GX160		Loncin H135		
A - Height - Operation (mm)	935	936	935	935	936	935	935	936	935
B - Length - Operation (mm)	950	835	950	950	835	950	950	835	950
C - Width (mm)	320	320	400	320	320	400	320	320	400
D - Length - Storage (mm)	790	775	790	790	775	790	790	775	790
E - Height - Storage (mm)	620	640.5	620	620	640.5	620	620	640.5	620
*** Engine Power (Hp / kW)	3.3 / 2.4		4.8 / 3.6		3.5 / 2.6				
Engine RPM		3850		3850		3850			
* Weight (kg)	64	67	68.5	66	69	70.5	64	67	68.5
Vibrator Force (kN)		13		13		13			
Frequency (Hz)		101		101		101			
Maximum Travel Speed (m/min)	20	18	20	20	18	20	20	18	20
Compaction Force (kg/m²)	416	1662	350	416	1662	350	416	1662	350
** 3 Axis Vibration (m/sec ²)	2.49	2.26	2.50	2.49	2.26	2.50	2.49	2.26	2.50
Sound Power Level (dB LwA)	105	105	105	105	105	105	105	105	105

^{*} Weight does not include Water Kit or Wheel Kit

Mass production petrol engines may vary from this value. Actual power output for the petrol engine installed in the final machine will vary depending on numerous factors, including the operating speed of the petrol engine in application, environmental conditions, maintenance and other variables. Honda reserves the right to modify its specifications at any time and without notice.

^{**} Minimum level to EN500 Part 4.

^{***} The power rating of the petrol engines indicated in this document is the net power tested on a production petrol engine for the petrol engine model and measured in accordance with SAE J1349 at a specified rpm.

Safety Instructions



GENERAL SAFETY

For your own personal protection and for the safety of those around you, please read and ensure you fully understand the following safety information. It is the responsibility of the operator to ensure that he/she fully understands how to operate this equipment safely. If you are unsure about the safe and correct use of the machine, consult your supervisor or Altrad Belle.



Improper maintenance can be hazardous. Read and Understand this section before you perform any maintenance, service or repairs.

This machine is designed to eliminate the possible risks arising from the use of it. However, risks **DO** reside, and these residual risks are not clearly recognizable, and may cause personal injury or property damage, and possible death. If such unpredictable and unrecognizable risks become apparent, the machine must be stopped immediately, and operator or his supervisor must take appropriate measure to eliminate such risks. It is sometimes necessary that the manufacturer must be informed of such event for future counter measuring.

ALWAYS keep the Operator's Manual and any other manuals that accompany this machine to hand. Immediately replace any manuals that may have been lost or are now illegible.

PRE-START CHECKS

The following Pre-start-up inspection must be performed before the start of each work session or after every four hours of use, whichever is first. Please refer to the service section for detailed guidance. If any fault is discovered, the machine must not be used until the fault is rectified.

- 1. Thoroughly inspect the machine for signs of damage. Check components are present and secure.
- 2. **ENSURE** there is no debris or excessive dirt present on the machine.
- 3. Check hoses, filler openings, drain plugs and any other areas for signs of leakage. Fix any leaks before operating.
- 4. Check the engine oil level and top up as necessary.
- 5. Check the engine fuel level and top up as necessary.
- 6. Check for fuel and oil leaks.

WORKSITES

- ENSURE the operator is familiar with the working surroundings. Worksites can be hazardous.
- ALWAYS keep the work area tidy and clear of any obstructions that may lead to accidents and/or injuries.
- · Cordon off the work area and keep members of the public and unauthorized personnel at a safe distance.
- This machine is heavy and must not be lifted single-handedly, either GET HELP or use suitable lifting equipment. A Wheel Kit
 Transport option is also available for this machine (see our website Altrad-Belle.com)

OPERATING THE MACHINE

- ENSURE the operator has had adequate training prior to use, is familiar with all controls and knows how to safely switch the machine OFF before it is switched ON in case you get into difficulty.
- Suitable PPE MUST be worn when using this equipment i.e. Safety Goggles, Gloves, Ear Defenders, Dust Mask and Steel Toe
 capped footwear (with anti-slip soles for added protection). Wear clothing suitable for the work you are doing and DO NOT wear
 loose jewellery that could be caught in moving parts
- ALWAYS inform colleagues of what you will be doing and where you will be working.
- DO NOT operate the machine when you are ill, feeling tired, or when under the influence of drugs / alcohol.
- During use the engine becomes very hot, allow the engine to cool before touching it. **NEVER** leave the engine running and unattended.
- **ENSURE** the operation handle has been securely tightened when changing from the 'storage' position to the 'operation' position.
- **NEVER** remove or tamper with any guards fitted, they are there for your protection. Always check guards for condition and security, if any are damaged or missing, **DO NOT USE THE MACHINE** until the guard has been replaced or repaired.
- · When working on a gradient ALWAYS work up and down the slope, not across.
- ALWAYS proceed with caution when working around utilities (gas, water pipes electrical lines)
- ENSURE extra care is taken when working near to banks or trenches where there is a danger of the material collapsing.
- When working within trenches or pits **ALWAYS** pay attention to the side walls as the vibration from the machine could cause them to collapse.
- Some vibration from the compaction operation is transmitted through the handle to the operator's hands. The Altrad Belle Plate Compactor range has been specifically designed to reduce hand/arm vibration levels. Refer to the Technical Data section for vibration levels and usage times (recommended maximum daily exposure time). **DO NOT** exceed the maximum usage times.
- The compacting process will occasionally produce dust, which may be hazardous to your health. Always wear a mask that is suited to the type of dust being produced.



Safety Instructions

FUEL SAFETY



WARNING

Petrol is flammable. It may cause injury and property damage. Shut down the engine, extinguish all open flames and do not smoke while filling the fuel tank. Always wipe up any spilled fuel.

- Before refuelling, switch off the engine and allow it to cool.
- When refuelling, **DO NOT** smoke or allow naked flames in the area.
- Spilt fuel must be made safe immediately, by using sand. If fuel is spilt on your clothes, change them.
- · Store diesel in an approved, purpose made container away from heat and ignition sources.
- If fuel is spilt when re-fuelling the tank, wipe off the excess and wait 2 minutes before re-starting.

OIL & LUBRICANTS

- When handling oil, grease and other chemical substances observe the product-related safety regulations (safety data sheet)
- If any oil or lubricants are swallowed DO NOT make the person vomit and seek medical attention as soon as possible.
- If the oil or lubricants comes into contact with skin or in the eyes, flush with lots of water for at least 15 minutes. Seak medical
 advice.
- · Use a suitable container to collect fluids and lubricants as they flow out and dispose of them in an environmentally friendly manner
- ALWAYS store oil and lubricants in secure labelled containers.

DURING MAINTENANCE

- Carry out maintenance and repair work only if the machine is positioned on stable and level ground and has been secured against inadvertent movement.
- NEVER service the machine while the engine is running, always switch OFF.
- Clean the machine, especially connections and threaded unions, before carrying out maintenance/repair.
- When dismantling assemblies containing components under pressure from springs, always wear suitable PPE. This will protect against eye injuries from accidental flying components.
- · When handling oil, grease and other chemical substances, observe the product related safety regulations.

AFTER MAINTENANCE

- · ALWAYS tighten any screwed connections that have been loosened during maintenance and repair.
- Any safety devices removed for set-up, maintenance or repair purposes must be refitted and checked immediately upon completion
 of the maintenance and repair work.
- ENSURE that all consumables and replaced parts are disposed of safely and with minimum environmental impact.

MODIFICATIONS & REPLACEMENT PARTS

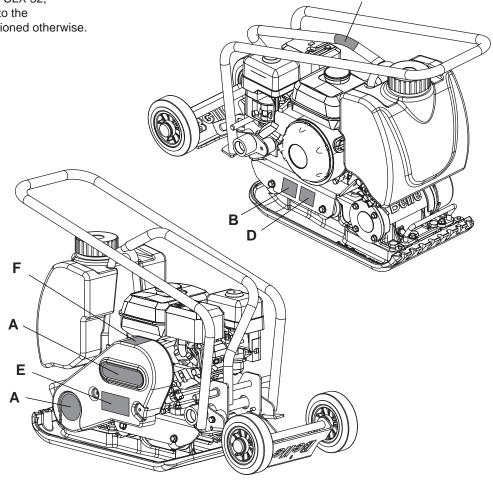
- NEVER make any modifications or additions to the machine without the prior approval of Altrad Belle. Any unapproved
 modifications may affect the performance and safety of the machine. This may also voide the Warranty.
- ALWAYS use genuine Altrad Belle replacement parts. Use of non-genuine replacement parts may affect the performance and safety of the machine. This may also voide the Warranty.

Genuine Altrad Belle replacement parts can be purchased online at www.Altrad-Belle247.com

C

NOTE:- The diagram below shows the PCLX 32, however the decals are also applicable to the PCLX 32S & 40 too, except where mentioned otherwise.

- A. Branding Decals
- B. Noise Decal
- C Lifting Point Decal
- D. Safety Decal
- E. Low HAV Decal
- F. Static Pressure Figure Decal (PCLX 32S only)



A. Branding Decals

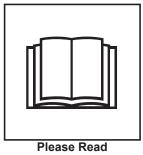
B. Noise Decal

Shows the noise level of the machine during operation.

C Lifting Point Decal

Identifies the designated Lifting Point on the machine for use with a correctly rated mechanical hoist.

D. Safety Decal



Operators Manual



Wear Protective Footwear



Wear Ear **Protection**



Protection

E. Low HAV Decal

The machine has a UK design which reduces HAV levels allowing a greater usage time.

F. Static Pressure Figure Decal (PCLX 32S only)

Shows the Static Pressure figure, highlighting that the machine passes the HAUC specification for use on highways.



Operating Instructions

REASONS FOR COMPACTION

Soil, which has been disturbed or new infill, subbase and blacktop, will have small voids or air pockets which, if not compacted, will lead to one or more problems occurring.

- 1. As traffic crosses the surface of an uncompacted area, the material is compressed. This leads to subsidence of the top surface as the material fills the voids.
- 2. A similar situation occurs with static loads on uncompacted ground. The load (e.g. a building) will sink.
- 3. Materials with voids are more susceptible to water seepage, leading to erosion. Water ingress may also cause the soil to expand during freezing temperatures and contract during dry spells. Expansion and contraction is a major cause of damage to building foundations and normally leads to the structure requiring underpinning. Compaction increases the density of the material and therefore increases its load bearing capacity. Reduces air voids and therefore reduces the risk of subsidence, expansion and contraction, due to ingress of water.

APPLICATIONS

Applications/materials fall into three categories:

- 1. Cohesive materials (less than 20% granular) e.g clay, silt & heavy soils.
- 2. Granular materials (more than 20% granular) e.g hard core, sand & light soils.
- 3. Bituminous materials e.g asphalt (tarmac), cold lay (bitumin emulsion products).

The chart shows the HAUC specifications for layer depth and number of passes for Dual Force' plates. If standard machines are used, optimum compaction can not be guaranteed, however, if layer depths are reduced and number of passes increased, results can be improved.

Moisture content of cohesive & granular materials is critical to effective compaction. If granular material is too dry it will flow around the plate instead of compacting. If the moisture content is too high the material may dry out after compaction and shrinkage will occur.

1400 - 1800 kg/m²	COMPACTION PASSESS REQUIRED PER LAYER OF COMPACTED THICKNESS UP TO.					
	40mm	60mm	80mm	100mm	150mm	
Cohesive Materials**	2**	4**	5**	6**	Reduce Layer Thickness	
Granular Materials	2*	3*	4*	5	9	
Bituminous	6	10	12		Reduce Layer Thickness	

Usually placed in 100mm minimum layer so not specified by HAUC.

^{**} The nature of cohesive materials makes plate compaction difficult. Optimum compaction is not guaranteed and not recommended by HAUC.

Operating Instructions



COMPACTION SPECIFICATION

Various methods have been employed in the past to specify the compaction required for various applications. The factors to consider are, material properties, layer thickness, pressure applied, vibration and number of passess. Greater understanding of how compaction works has lead to new compaction specifications being introduced. The most up to date specification is part of the U.K.'s NRSWA (New Roads & Street Works Act). Civil Engineers are now adopting these specifications to ensure good compaction for all site work.

NRSWA (HAUC specification).

The specification was compiled by HAUC (Highways Authorities & Utilities Committee). The 'New Roads and Street Works Act 1991, set a new standard for road repairs and reinstatements in the UK. It covers materials, methods, equipment and safety when carrying out reinstatements on roads and footways. The reason for the act is to ensure repairs and reinstatements are carried out to a higher standard and ultimately last longer. This in turn will reduce the need for costly remedial work and reduce traffic delays.

There are two categories specified for plate compactors.

1. 1400 to 1800kg/m²

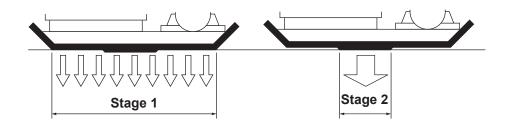
2. Over 1800kg/m²

These figures relate to the static pressure applied by the machine

NOTE: No standard single direction plate compactors comply with this minimum specification. For highways work always use a 'Dual Force' plate compactor.

DUAL FORCE

Altrad Belle studied the act then developed equipment to enable contractors to comply with the act's requirements. The NRSWA legislation requires that compaction equipment meets the minimum specification. By purchasing an Altrad Belle 'Dual Force' plate, you are immediately complying with this part of the act. To comply with the specification and maintain surface tolerance, Altrad Belle 'Dual Force' base plates are divided into two areas providing two stages of compaction.



Stage 1: The full base area compacts the material like a standard machine.

Stage 2: The base rises onto the 'Dual Force' section to give 3 to 4 times the compaction force of standard plates.

OPERATING THE MACHINE

Having carried out the Pre-Start Checks listed in the Safety Instructions section of this manual, you may start the power unit.

The vibrator will not only cause the baseplate to vibrate but will also cause the machine to travel forward. During normal operation you should not have to push the machine forwards but allow it to travel at its own pace. The speed of travel will be determined by the condition of the surface being compacted.

If the surface to be compacted is on a slope, great care must be taken when controlling the machine's direction of travel. If necessary, use a suitable rope attached to the machine at a low point on the chassis, to allow a helper to take part of the machine's weight. Work up and down a slope not across.

Work the compactor over the surface in an organised pattern until the required compaction has been achieved. Where there are a number of different layers to be compacted on top of each other, compact each layer individually.



Operating Instructions

STOPPING THE ENGINE - HONDA GX120 & GX160

- Switch OFF the engine.
- Turn the fuel tap to the **CLOSED** position.

STARTING THE ENGINE - HONDA GX120 & GX160

- Open the fuel tap by moving the fuel **ON / OFF** lever fully to the right.
- If starting the engine from cold, set the choke ON by moving the choke lever fully to the left. If restarting a warm engine, the choke is usually not required, however, if the engine has cooled to a degree, partial choke may be required.
- Turn the engine ON / OFF switch clockwise to the 'l' position.
- Set the throttle to the idle position by moving the throttle lever fully to the right.
- Taking a firm hold of the frame with one hand, grasp the recoil starter handle with the other. Pull the recoil starter until engine resistance is felt, then let starter return.
- Taking care not to pull the starter's rope fully out, pull the starter handle briskly.
- Repeat until the engine fires.
- Once the engine fires gradually set the choke lever to the OFF position by moving it to the right.
- If the engine fails to fire after several attempts, follow the Troubleshooting Guide.
- To stop the engine, set the throttle to idle and turn the engine ON / OFF switch anticlockwise to the '0' position.
- Turn the fuel OFF.

STOPPING THE ENGINE - LONCIN H135

- Move the throttle lever to the **SLOW** position.
- Turn the engine switch to the **OFF** position.
- Turn the fuel valve lever to the OFF position.

STARTING THE ENGINE - LONCIN H135

- Move the fuel valve lever to the ON position.
- To start a cold engine, move the choke lever to the CLOSE position.
 - To restart a warm engine, leave the choke lever in the OPEN position.
- Move the throttle lever away from the SLOW position, about 1/3 of the way toward the FAST position.
- Turn the engine switch to the ON position.
- Pull the starter grip lightly until you feel resistance, then pull briskly. Return the starter grip gently.
- If the choke lever has been moved to the CLOSE position to start the engine, gradually move it to the OPEN position as the engine warms up.

TRANSPORTATION



WARNING

NEVER leave the engine running whilst transporting or moving the plate compactor, even if it is only a short distance.

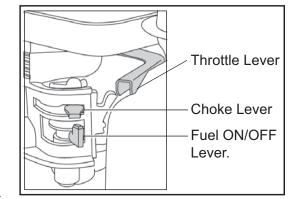
Transporting the machine is a 2 person operation. Use the provided Hand Lifting Points (See Machine Description section) DO NOT use a Mechanical Hoist on the Hand Lifting Points.

Where it is necessary to use lifting equipment to transport the machine, make sure the lifting equipment has a WLL (Working Load Limit) suitable for the machines weight (see Technical Data section). Attach suitable chains or slings ONLY to the lifting point on the top of the machine.

If using the optional Wheel Kit attachment to transport the machine ALWAYS ensure the wheels are fully engaged underneath the baseplate before moving.



CAUTION ALWAYS pull the machine backwards when using the optional Wheel Kit attachment.



Storage



If the machine is not to be used for a long period of time it must be stored correctly to prevent deterioration or damage occuring during this period.

Store the machine in a clean dry building with plenty of ventilation if possible. If you can only store outdoors, cover with a waterproof sheet / tarpaulin.

PREPARING THE MACHINE FOR STORAGE

- 1. Clean the machine and remove all unwanted material / debris.
- 2. Dry the machine to remove any moisture.
- 3. Apply grease to any moving parts / grease points.
- 4. Examine the machine for any worn / damaged parts. Replace if necessary.

STORING THE MACHINE

- 1. Place the machine safely on stable, level ground. **ENSURE** there is sufficient room around the machine to be able to carry out any service or maintenance procedures during the storage period.
- 2. Loosen the operating handle clamp/release knobs and place the handle in the storage position (see below)

To prevent the build up of rust and to minimise the risk of seizures, periodically operate all machine functions during storage.

REMOVING THE MACHINE FROM STORAGE

1. Carry out the Pre-Start Check procedure from earlier in this manual.

Troubleshooting Guide



Problem	Cause	Remedy		
	No fuel.	Open fuel tap.		
	No ruei.	Fill fuel tank.		
	Engine switched off.	Switch engine on.		
Engine will not start.	Spark plug fouled.	Clean and reset plug gap.		
	Engine cold.	Close choke.		
	 Engine flooded.	Open choke, fully open throttle, pull recoil		
-		starter until engine fires.		
Engine still will not start.	Major Fault	Contact Agent or Altrad Belle.		
	Engine speed too slow.	Set engine speed control to fast.		
	Drive belt tension loose.	Adjust belt tension.		
Unit will not vibrate.	Air filter blocked	Clean or renew air filter.		
	Drive failure.	Contact Agent or Altrad Belle.		
	Vibrator failure.	Contact Agent or Altrad Belle.		
Asphalt adhering to plate.	Lack of lubrication.	Use a water spray system.		
Bituminous surface flaking (laminating).	Over compaction.	Remove and relay.		
	Layer thickness too deep.	Remove some of the material.		
Low travel speed (plate sinking).	Moisture content too high or too low.	Remove material and adjust.		
Paving blocks damaged.	Plate in direct contact with material.	Use a paving pad.		

Environment



Safe Disposal.



Instructions for the protection of the environment. The machine contains valuable materials. Take the discarded apparatus and accessories to the relevant recycling facilities.

Component	Material
Operator Handle	Steel
Baseplate	Steel
Eccentric Weights	Steel
Vibrator Housing	Aluminium
Engine Housing	Aluminium
Engine Covers	Synthetic Material
Various Parts	Steel & Aluminium



Service and Maintenance

GENERAL

This machine is designed to give many years of trouble free operation. It is, however, important that the simple regular maintenance listed in this section is carried out. All maintenance procedures must be carried out by a competant, suitably qualified person.

A poorly maintained machine could be a danger to the operator and the other personnel on the worksite. ENSURE that the regular maintenance procedures listed in this manual are performed correctly and on time to keep the machine safe and efficient.

ALWAYS use genuine Altrad Belle replacement parts, the use of spurious parts may void your warranty.

Before any maintenance is carried out on the machine, switch off the machine and ALWAYS set the machine on stable, level ground.

ENSURE any faults identified during maintenance proceudres are addressed and corrected immediately.

Routine Maintenance		First 4 Hours	First Month / 20 Hours	3 Months / 50 Hours	6 Months / 100 Hours
Engino Oil	Check Level	✓			
Engine Oil	Change		✓		✓
Air Filter	Check Condition / Clean		✓		✓
All Filler	Replace when nece	ssary / Every	12 months		
Spark Plug	Change				✓
Drive Belt	Tension	✓	✓	✓	

Oil / Fuel Type & Quantity - Spark Plug Type

	Oil Type	Quantity (Litre)	Fuel Type	Capacity (Litre)	Spark Plug Type	Electrode Gap (mm)
Petrol Honda GX120	S.A.E. 10W 30	0.6	Unleaded	2.5	BM6ES or BPR6ES	0.7 - 0.8
Petrol Honda GX160	S.A.E. 10W 30	0.6	Unleaded	3.6	BM6ES or BPR6ES	0.6 - 0.7
Petrol Loncin H135	S.A.E. 10W 30	0.6	Unleaded	2.5	F7RTC or equivalent	0.7 - 0.8
Vibrator	S.A.E. 10W 40	0.22	N/A	N/A	N/A	N/A

DRIVE BELT

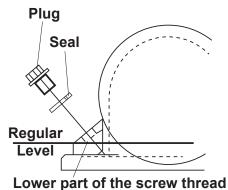
Remove the belt guard then check the belt tension by placing light finger pressure on the top of the belt, as near central between the engine drive and vibrator pulley. The belt should deflect by between 5mm and 10mm.

If the belt tension requires adjustment, loosen the four engine mount bolts enough to allow the engine to be moved. Adjust the engine's position by turning the tension bolt clockwise to increase belt tension, anti-clockwise to decrease. Once set, retighten the engine mount bolts and check the belt tension a second time.

Finally, replace the belt guard ensuring it is correctly and securely fitted.

VIBRATOR UNIT

Place the machine safely on stable, level ground. Remove the plug complete with seal, check that the oil level reaches the bottom thread on the oil plug hole. Top up as necessary with the correct oil (see chart below).



'Dual Force' / HAUC / NRSWA Certificate



Γ	This machine is fitted with a 'Dual Force' base plate.	This machine is not fitted with a 'Dual Force' base plate.
L		

When fitted with a 'Dual Force' base plate the Static Weight per Unit Area of this machine is over 1400 kg/m² and so complies with the NRSWA (HAUC specification) for plate compactors in the category 1400 – 1800kg/m².

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R. Neilson - Managing Director

'Dual Force' allows Altrad Belle plate compactors to be used for Highways reinstatements in accordance with the specifications stated in the NRSWA (New Roads and Streetworks Act 1991) Appendix A8.

Standard Altrad Belle plate compactors can be retro fitted with 'Dual Force', contact Altrad Belle for details.

Warranty



Your new Altrad Belle 'PCLX 32, 32S or 40' Single Direction Plate Compactor is warranted to the original purchaser for a period of one-year (12 months) from the original date of purchase. The Altrad Belle warranty is against defects in design, materials and workmanship.

The following are not covered under the Altrad Belle warranty:

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

The following components are not covered by warranty.

• Drivebelt/s

• Engine air filter

· Engine spark plug

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

Warranty Claims

All warranty claims should firstly be directed to Altrad Belle, either by telephone, by Fax, by Email, or in writing.

For warranty claims:

Tel: +44 (0)1298 84606

Fax: +44 (0)1298 84073

Email: warranty.dept@altrad-belle.com

Write to:

Altrad Belle Warranty Department, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, England.

Warranty Registration:

In the bid for ALTRAD Belle to become greener and more eco friendly, we have now introduced online Warranty registration. To access the registration page of our website, please use the following address:-

http://www.bellegroup.com/index.php?p=warranty_registration

Alternatively, please scan the adjacent QR Code (Quick Response Code) using your smartphone to access the registration page.



Replacement Parts



When maintaining this product only the manufacturers original, genuine replacement parts may be used.

The user will lose any possible claims if replacement parts used are other than the makers original replacement parts.

Replacement parts for this product can be ordered online 24 hours a day, 7 days a week at www.Altrad-Belle247.com

For more information regarding the availability of replacement parts for this product, please contact Altrad Belle using the following contact details:-

Tel:- +44 (0)1298 84606

Fax:- +44 (0)1298 84073

Email:- sales@altrad-belle.com

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Alternatively, please scan the adjacent QR Code (Quick Response Code) using your smartphone to access the Altrad Belle online parts portal.



ALTRAD BELLE

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EU IMPORTER ADDRESS

ADRESSE DE L'IMPORTATEUR - DIRECCIÓN DEL IMPORTADOR - ENDEREÇO DO IMPORTADOR - ADRES IMPORTEUR IMPORTØRENS ADRESSE - IMPORTEUR ADRESSE - INDIRIZZO DELL'IMPORTATORE - IMPORTÖRENS ADRESS - IMPORTØRADRESSE MAAHANTUOJAN OSOITE - ADRES IMPORTERA - IMPORTIJA AADRESS - IMPORTĒTĀJA ADRESE - IMPORTUOTOJO ADRESAS ADRESA DOVOZCE - ADRESA IMPORTATORULUI - IMPORTÓR CÍME - ADRESA UVOZNIKA - ITHALATÇI ADRESI - ADRESA DOVOZCU

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