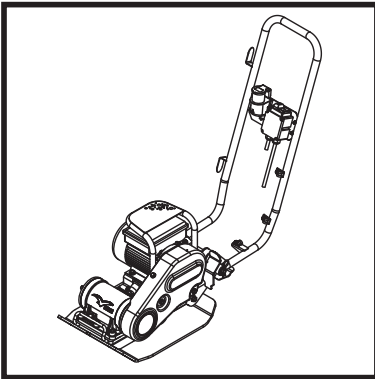




BELLE PCLX 12/40E

870/10022/0
10/18



- Spare Parts Book
- Pièces Détachées
- Onderdelen Boekje
- Reservelele Skrift
- Ersatzteilhandbuch
- Manuale dei Ricambi
- Bruksanvisning
- Varaosaluettelo
- Lista Części Zamiennych
- Запасные Части Книга
- Varuosade Nimekiri
- Rezerves Daļu Saraksts
- Atsarginiu Daliu Sarašas

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EC DECLARATION OF CONFORMITY / DECLARATION CE DE CONFORMITE / DECLARACIÓN DE CONFORMIDAD CE / DECLARAÇÃO CE DE CONFORMIDADE / EG-VERKLARING VAN OVEREENSTEMMING / EF OVERENSSTEMMELSESERKLÆRING



We, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB**, hereby certify that if the product described within this certificate is bought from an authorised Belle Group dealer within the EEC, it conforms to the following EEC directives: 2006/42/CE (This directive replaces directive 98/37/EC), Electromagnetic Compatibility Directive 2004/108/CE (as amended by 89/336/EEC, 92/31/EEC & 93/68 EEC). The Waste Electrical and Electronic Equipment (WEEE) 2002/96/CE, the low voltage directive 2006/95/CE, BS EN ISO 12100-1:2003 Safety of machinery and associated harmonised standards, where applicable. Noise emissions conform to directives 2000/14/EC Annex VI & 2005/88/EC, for machines under article 12 the notified body is **AVT Reliability, Unit 2 Easter Court, Europa Boulevard, Warrington, Cheshire, WA5 7ZB, GB**.
Noise Technical files are held by Ray Neilson at the Belle group Head Office address which is stated above.



Nous soussignés, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB**, certifions que si le produit décrit dans ce certificat est acheté chez un distributeur autorisé Belle Group au sein de la CEE, il est conforme aux normes CEE ci-après: 2006/42/CE (Cette norme remplace la norme 98/37/CE), Norme compatible pour l'électromagnétisme 2004/108/CE (modifié par 89/336/EEC, 92/31/EEC & 93/68 EEC). Les déchets électriques, et d'équipement électronique 2002/96/CE, caractéristiques basse tension 2006/95/CE, BS EN ISO 12100-1:2003 Norme de sécurité des machines et des critères associés et configurés, si applicable. Les émissions de bruit sont conformes à la directive 2000/14/EC Annexe VI et 2005/88/EC pour machines, article 12, l'objet mentionné est **AVT Reliability, Unit 2 Easter Court, Europa Boulevard, Warrington, Cheshire, WA5 7ZB, GB**.
Les fichiers techniques des émissions sonores sont détenus par Ray Neilson à l'adresse du Siège du Groupe Belle qui est indiqué ci-dessus.



La Sociedad, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK 17 0EU, GB**, por el presente documento certifica que si el producto descrito en este certificado es comprado a un distribuidor autorizado de Belle Group en la CEE, este es conforme a las siguientes directivas: 2006/42/CE de la CEE (Esta directiva sustituye a la Directiva 98/37/CE), Directiva 2004/108/CE sobre Compatibilidad Electromagnética (según enmiendas 89/336/EEC, 92/31/EEC & 93/68 EEC). Los residuos eléctricos y electrónicos (RAEE) 2002/96/CE, Directiva sobre Bajo Voltaje 2006/95/CE, BS EN ISO 12100-1:2003 de Seguridad de Maquinaria y Niveles armonizados estándares asociados donde sean aplicables. Emisión de Ruidos conforme a la Directiva 2000/14/CE Anexo VI y 2005/88/EC para máquinas bajo artículo 12 la mencionada unidad está en **AVT Reliability, Unit 2 Easter Court, Europa Boulevard, Warrington, Cheshire, WA5 7ZB, GB**.
Archivos de ruido técnicos están en manos de Ray Neilson en la dirección del grupo Belle Sede de la que se ha dicho.



O signatário, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK 0EU, GB**, pelo presente, declara que se o produto descrito neste certificado foi adquirido a um distribuidor autorizado do Belle Group em qualquer país da UE, está em conformidade com o estabelecido nas seguintes diretivas comunitárias: 2006/42/CE (Esta directiva substitui a Directiva 98/37/CE), Directiva de Compatibilidade Electromagnética 2004/108/CE (conforme corrigido pelas 89/336/EEC, 92/31/EEC & 93/68 EEC). O Eléctrico de Desperdiço e Equipamento Eléctrico (DEEE) 2002/96/CE, a directiva de baixa voltagem 2006/95/CE, BS EN ISO 12100-1:2003 Segurança da maquinaria e às normas harmonizadas afins se aplicáveis. As emissões de ruído respeitam e estão dentro das diretivas para máquinas 2000/14/CE Anexo VI & 2005/88/EC, artigo 12, sendo o organismo notificado **AVT Reliability, Unit 2 Easter Court, Europa Boulevard, Warrington, Cheshire, WA5 7ZB, GB**.
Arquivos de ruído técnicos são detidos por Ray Neilson no endereço Escritório Belle grupo Cabeça que é dito acima.

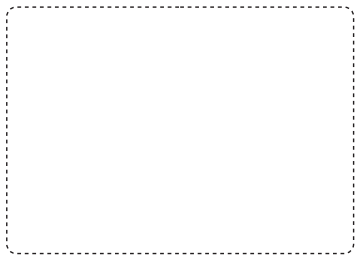


Ondergetekende, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB**, verklaren hierbij dat als het product zoals beschreven in dit certificaat is gekocht van een erkende Belle Group dealer binnen de EEG, het voldoet aan de volgende EEC richtlijnen: 2006/42/CE (Deze richtlijn vervangt Richtlijn 98/37/EC), Electromagnetische Compatibiliteit Richtlijn 2004/108/CE (geamendeerd door 89/336/EEC, 92/31/EEC & 93/68 EEC). De afgedankte elektrische en elektronische apparatuur (AEEA) 2002/96/CE, de Laagspannings Richtlijn 2006/95/CE, BS EN ISO 12100-1:2003 Veiligheid van Machines, en hieraan gekoppelde geharmoniseerde Standaarden, waar deze van toepassing is. Geluidshinder te voldoen aan de richtlijnen 2000/14/EG en 2005/88/EG bijlage VI, voor toestel onder stuk 12 naar de notified troep zit **AVT Reliability, Unit 2 Easter Court, Europa Boulevard, Warrington, Cheshire, WA5 7ZB, GB**.
Lawaai Technische dossiers zijn in handen van Ray Neilson op de Belle groep hoofdkantoor adres, dat staat boven.



Vi, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB**, erklærer hermed, at hvis det i dette certifikat beskrevne produkt er købt hos en autoriseret Belle Group forhandler i EU, er det i overensstemmelse med følgende EØF-direktiver: 2006/42/CE (Dette direktiv erstatter direktiv 98/37/EF), 2004/108/EØF (som ændret ved 89/336/EEC, 92/31/EØF & 93/68 EØF), Afkald af elektrisk og elektronisk udstyr (WEEE) 2002/96/CE, lavspændingsdirektivet 2006/95/CE, BS EN ISO 12100-1:2003 Maskinsikkerhed og tilhørende harmoniserede standarder, hvor det er relevant. Støjmission i overensstemmelse med direktiverne 2000/14/EF bilag VI og 2005/88/EF, for maskiner under paragraf 12. Det bemyndigede organ er **AVT Reliability, Unit 2 Easter Court, Europa Boulevard, Warrington, Cheshire, WA5 7ZB, Storbritanien**.
Støj Tekniske filer er i besiddelse af Ray Neilson på Belle-gruppen hovedkontoret adresse, som er nævnt ovenfor.

PRODUCT TYPE	TYPE DE PRODUIT.....	TIPO DE PRODUCTO
MODEL.....	MODELE	MODELO
SERIAL No.....	N° DE SERIE	N° DE SERIE
DATE OF MANUFACTURE.....	DATE DE FABRICATION	FECHA DE FABRICACIÓN.....
SOUND POWER LEVEL MEASURED /	NIVEAU DE PUISSANCE SONORE MESUREE /	NIVEL DE POTENCIA ACÚSTICA MEDIDO /
.....(GUARANTEEED)	.....(GARANTIE)	.....(GARANTIZADO)
WEIGHT	POIDS	PESO
TIPO DE PRODUCTO.....	PRODUCTTYPE.....	PRODUKTTYPE.....
MODELO.....	MODEL.....	MODEL.....
NO. DE SERIE.....	SERIENUMMER.....	SERIENR.....
DATA DE FABRIC.....	FABRICAGEDATUM.....	FREMSTILLINGSDATO.....
NIVEL DE POTÊNCIA DE SOM MEDIDO /	GEMETEN GELUIDSSTERKTE NIVEAU /	LYDEFFEKTNIVEAU MÅLT /
.....(GARANTIDO)	.....(EGARANDEERD)	.....(GARANTERET)
PESO.....	GEWICHT.....	VÆGT.....



Signed by:
 Signature:
 Medido por:
 Assinado por:
 Getekend door:
 Underskrevet af:

Ray Neilson

Managing Director - On behalf of BELLE GROUP (SHEEN) UK.
Le Directeur Général - Pour le compte de la SOCIETE BELLE GROUP (SHEEN) UK.
Director Gerente - En nombre de BELLE GROUP (SHEEN) UK.
Director-Geral - Em nome de BELLE GROUP (SHEEN) UK.
Algemeen Directeur - Namens BELLE GROUP (SHEEN) UK.
Administrerende direktør - På vegne af BELLE GROUP (SHEEN) UK.

Place of Declaration - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Lieu de déclaration - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Declaración hecha en - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Lugar de Declaração - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Plaats van de Verklaring - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Sted i erklæring - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK

Date of Declaration - 2016.....
Date de déclaration - 2016.....
Fecha de la declaración - 2016.....
Data da Declaração - 2016.....
Datum van de verklaring - 2016.....
Dato for erklæringen - 2016.....



How To Use This Manual

This manual has been written to help you operate and service the 'PCLX 12/40E' Plate compactor safely. This manual is intended for dealers and operators of the 'PCLX 12/40E' Plate compactor .

Foreword

The '**Machine Description**' section helps you to familiarise yourself with the machine's layout and controls.

The '**Environment**' section gives instructions on how to handle the recycling of discarded apparatus in an environmentally friendly way.

The '**General Safety**' and '**Health and Safety**' sections explain how to use the machine to ensure your safety and the safety of the general public.

The '**Operating Instructions**' section helps you with the setting up and use of the machine.

The '**Trouble Shooting Guide**' helps you if you have a problem with your machine.

The '**Service & Maintenance**' section is to help you with the general maintenance and servicing of your machine.

The '**Warranty**' Section details the nature of the warranty cover and the claims procedure.

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



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**



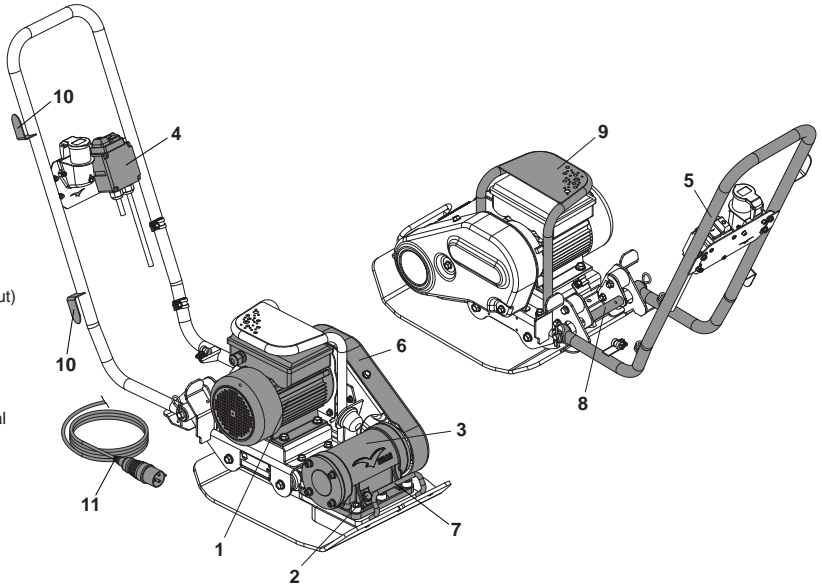
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Altrad Belle reserves the right to change machine specification without prior notice or obligation.

Machine type:
Single Direction
Plate Compactor

1. Electric Motor
2. Vibrator Unit Oil Plug.
3. Vibrator Unit
4. On / Off Switch
5. Operating Handle,
6. Belt Guard,
7. Hand Lifting Point
8. Hand Lifting Point (Strut)
9. Motor Guard
10. Cable Storage Hook
11. Power Cable



DO NOT use a Mechanical Hoist on the Hand Lifting Points (No's 7 & 8) and Motor Guard (No. 9)



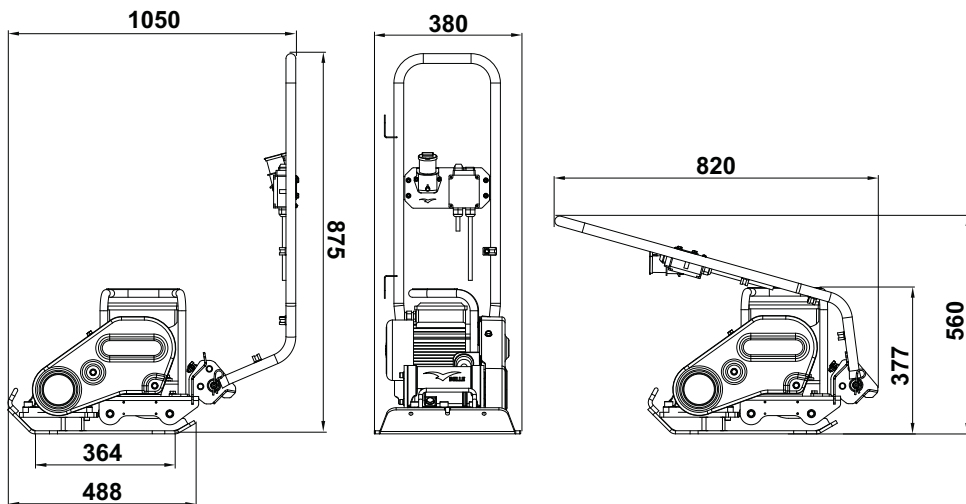
Environment

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.

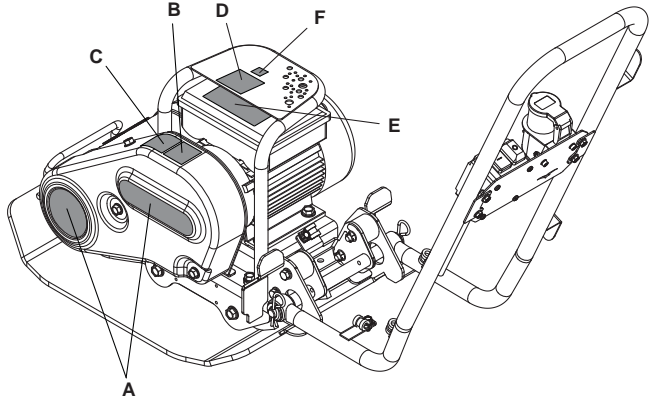
Component	Material
Operator Handle	Steel
Hand Grip	Steel
Base Plate	Steel
Eccentric Weights	Steel
Electric Motor	Steel & Aluminium & Copper
Various Parts	Steel & Aluminium



Model	110v 50Hz	230v 50Hz
Weight (kg)	50	50
Motor Power (Hp / kW)	2.0 / 1.5	2.0 / 1.5
Motor RPM	2800	2800
Nominal Voltage (v)	110	230
Full Load Current (A)	14.2	6.66
Motor Protection Rating	IP44	IP44
Power Consumption (kW)	0.94	0.94
Vibrator Force (kN)	12	12
Frequency (Hz)	50	50
Minimum Transformer Size (kVA)	3.3	N/A
Maximum Travel Speed (m/min)	24	24
Max. Gradient (°)	20	20
Compaction Force (kg/m ²)	388	388
3 Axis Vibration* (m/sec ²)	3.97	3.97
Usage Time (Mins)	190	190
Sound Power Level (dB(A))	104	104

* Minimum level to EN500 Part 4

- A - Branding Decals
- B - Safety Decal
- C - Noise Decal
- D - Wet Conditions Decal
- E - Motor Safety Decal
- F - No Lifting Decal



A - Branding Decals

Branding Decals to identify the model of machine.

B - Safety Decal (Part No. 19.0.373)



Please Read
Operators
Manual



Wear Protective
Footwear



Wear Ear
Protection



Wear Eye
Protection

C - Noise Decal

Guaranteed Sound Power Level of the machine in dB(A).

D - Wet Conditions Decal

DO NOT use this machine in wet conditions. The electrical components of the machine **MUST NEVER** be exposed to water or liquid of any kind as this could result in serious injury or even death!

E - Motor Safety Decal

DO NOT remove any covers from the motor whilst the still plugged in. This may cause serious injury or even death.

F - No Lifting Decal

DO NOT use the Motor Guard as a Lifting Point.

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 'PCLX 12/40E' Plate compactor, consult your supervisor or Altrad Belle.



CAUTION

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

- This equipment is heavy and must not be lifted single-handedly, either **GET HELP** or use suitable lifting equipment.
- Cordon off the work area and keep members of the public and unauthorized personnel at a safe distance.
- Personal Protective Equipment (PPE) must be worn by the operator whenever this equipment is being used (see Health & Safety).
- Make sure you know how to safely switch this machine **OFF** before you switch it **ON** in case you get into difficulty.
- Always switch OFF and un-plug the motor before transporting, moving it around the site or servicing it.
- During use the motor becomes very hot, allow the motor to cool before touching it. Never leave the motor running and unattended.
- Never remove or tamper with any guards fitted, they are there for your protection. Always check guards for condition and security, if any are damaged or missing, **DO NOT USE THE MACHINE** until the guard has been replaced or repaired.
- Never pull or guide the machine using the cable and never pull on the cable to disconnect the plug.
- **DO NOT** operate the **MACHINE** when you are ill, feeling tired, or when under the influence of alcohol or drugs.
- Ensure that any trailing cable is protected against damage and not liable to be tripped over or trapped underneath the machine.
- **DO NOT** use the Motor Guard as a Lifting Point.
- **DO NOT** Jet Wash the machine as this could result in serious injury or even death!
- **DO NOT** use this machine in wet conditions. The electrical components of the machine **MUST NEVER** be exposed to water or liquid of any kind as this could result in serious injury or even death!
- **Belle strongly recommends the use of a Residual Current Device on 220/240v electrics.**

Fire Fighting

If your machine catches fire, turn off the electric supply. Using a dry powder or CO2 fire extinguisher put out the fire. If the fire can not be put out, keep away and call the fire brigade. If you are in any doubt about the safety condition of your machine, please consult your nearest Altrad Belle dealer or Altrad Belle direct.

Electric Motors

All portable electric appliances are dangerous if abused. This machine will only operate on one voltage. Check the power supply to ensure it corresponds to the voltage as stamped on the motor. Make sure that the motor is switched off before you plug it into the power supply.

220/240v - Always use a Residual Current Device ("RCD"), (earth leakage trip), plugged directly into the 220/240v socket.
If using an extension cable, plug it directly into the RCD.

110v - When using a portable transformer it must have a minimum output of 3.3kw and be continuously rated.

The symbols on the ON/OFF switch are 0=OFF and I=ON in accordance with international standards.



WARNING

***DO NOT** use an extension cable between the transformer and the power supply. Always ensure that the cable between the 110v machine and transformer is a minimum length of 3 metres. Ensure cable is fitted with cable clip to the operating handle at all times.*

Plugs

The PCLX 12/40E Plate Compactor is intended for DIY or site usage, the following plug types are supplied fitted to the product:-

110v Motor - 16 amp rated BS4343 plug type.

230v Motor - 13 amp rated 3-pin BS1363 plug type
or 3-pin CEE7/7 Euro plug type.

Fitting a plug - **WARNING THIS PRODUCT MUST BE EARTHED**

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

GREEN / YELLOW = EARTH. BLUE = NEUTRAL. BROWN = LIVE

The wire which is coloured Green and Yellow must be connected to the terminal in the plug marked E or coloured Green and Yellow.

The wire which is coloured Brown must be connected to the terminal in the plug marked L or coloured Red. The wire which is coloured Blue must be connected to the terminal in the plug marked N or coloured Black.

Always ensure before connecting to the supply that the supply voltage is the same as the rated voltage marked on the motor

Extension Cables

If you need to use an extension cable it must be no longer than 25 metres (82 feet) in length. The wire section must be 2.5mm² on 230v and 2.5mm² on 110v. Ensure that the extension cable is carefully laid out avoiding liquids, sharp edges and places where vehicles might run over it. Avoid allowing the extension cable to be trapped underneath the plate compactor. Unroll it fully or it will over-heat and could catch fire. Make sure that any extension cable connections are dry and safe.

NVR - No Volt Release

The motors which are fitted to the machine are fitted with a NVR (No Volt Release) Switch. This means that if the power fails, the motor will not automatically restart when the power is restored. The machine will need to be manually restarted.

Vibration

Some vibration from the compacting operation is transmitted through the handle to the operator's hands. Refer to specifications & technical data for vibration levels and usage times (recommended maximum daily exposure time). **DO NOT** exceed the maximum usage times.

PPE (Personal Protective Equipment).

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

Dust.

The compaction process can produce dust, which may be hazardous to your health. Always wear a mask that is suited to the type of dust being produced.

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.

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 passes. Greater understanding of how compaction works has led 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.

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).

Pre-start Checks



Pre start-up inspection.

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 'PCLX 12/40E' must not be used until the fault is rectified.

1. Thoroughly inspect the 'PCLX 12/40E' and all cables for signs of damage. Make sure that the belt guard is secure before using the machine.
2. Check hoses, filler openings, drain plugs and any other areas for signs of leakage. Fix any leaks before operating.

**WARNING**

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

**WARNING**

NEVER pass over the electric cable with the compactor during operation.

- **Take the compactor to where it is required.**
DO NOT use a Mechanical Hoist on the Hand Lifting Points (See Machine Description section).
Transporting the PCLX 12/40E is a 2 person operation. Use the provided Hand Lifting Points (See Machine Description section)
- **NEVER** leave the motor running whilst transporting or moving the PCLX 12/40E, even if it is only a short distance.
- Having carried out the checks listed in the 'Pre-Start' section, you may start the motor.
- **Switch the machine on and use the control handle to steer or turn the PCLX 12/40E.**
The vibrator will not only cause the baseplate to vibrate but will also cause it to travel forward. During normal operation you should not have to push the PCLX 12/40E 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 PCLX 12/40E's direction of travel. If necessary, use a suitable rope attached to the PCLX 12/40E at a low point on the chassis, to allow a helper to take part of the PCLX 12/40E's weight. Work up and down a slope not across.
- **Work the PCLX 12/40E over the surface in an organized 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.

Stopping the Motor

1. Depress the **RED** Button (O) to stop the machine (**Fig A**).

Starting the Motor

1. Plug into power supply.
2. Depress the **GREEN** Button (I) to start the machine (**Fig B**).

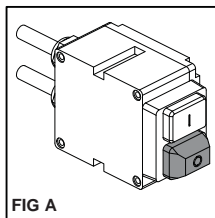


FIG A

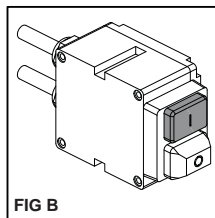


FIG B

Guide to using optional PCLX 12/40E Portable Appliance Test (PAT) Rig**WARNING**

Make sure that the plate is unplugged from the power source prior to carrying out first steps or the visual inspection!

Prior to the PAT a Formal Visual Inspection must be carried out by a competent person to check the electrical safety of the equipment following correct procedure. For guidelines on PAT and definitions involved please visit government website:

<http://www.hse.gov.uk/electricity/faq-portable-appliance-testing.htm>.

1. Place the PCLX 12/40E plate compactor into the test rig / fixture (**Part No. 968/01200**) with the front of the plate facing the anti-vibration mounts (**Item 1**), resting on the matting and with the handle swung back (**Fig C**). The Test rig must be located on a level floor, in dry ambient conditions with only the rubber feet touching the ground for appropriate vibration damping (**NOTE**: rubber feet are **NOT** designed to isolate the product from the ground).
2. Fit the Z-Bracket (**Item 2**) (**Part No. 968/01205**) to the switch by sliding it until it securely clicks into place and presses the green **ON** button of the switch.
3. Connect an approved PAT tester, configuring it according to your PCLX 12/40E specifications (e.g. Voltage; Appliance Insulation Class; Correct type of test etc.).
4. Make sure that PCEL-E plate compactor and PAT test fixture are not touched by a human, animal or any other object and are not at risk of doing so during the test. Conduct the test when and if you are happy that it is safe to do so.

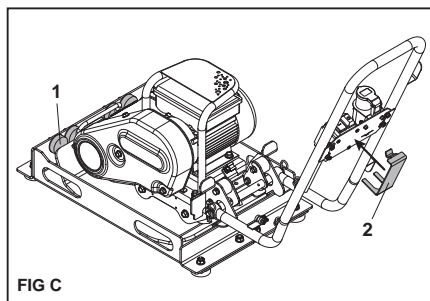


FIG C

Troubleshooting Guide



Problem	Cause	Problem
Motor fails to start.	Fuse or Circuit Breaker tripped.	Replace Fuse or reset the Breaker.
	Stator is shorted or went to ground. Motor will make a humming noise and the circuit breaker or fuse will trip.	Contact Agent or Altrad Belle.
	Motor overloaded or load jammed.	Inspect to see that the load is free. If free, Contact Agent or Altrad Belle.
	Capacitor (on single phase motor) may have failed.	Contact Agent or Altrad Belle.
	Starting switch has failed.	Contact Agent or Altrad Belle.
Motor runs but dies down.	Voltage drop.	If voltage is less than 10% of the motor's rating contact power company or check if some other equipment is taking power away from the motor or Contact Agent or Altrad Belle.
	Load increased.	Verify the load has not changed. Verify equipment hasn't got tighter. If fan application verify the air flow hasn't changed or Contact Agent or Altrad Belle.
Motor takes too long to accelerate.	Defective capacitor	Contact Agent or Altrad Belle.
	Faulty stationary switch.	Contact Agent or Altrad Belle.
	Bad bearings.	Contact Agent or Altrad Belle.
	Voltage too low.	Make sure that the voltage is within 10% of the motor's nameplate rating. If not, contact power company or check if some other equipment is taking power away from the motor or contact Belle.
Motor overload protector continually trips.	Load too high.	Verify that the load is not jammed. If motor is a replacement, verify that the rating is the same as the old motor. If previous motor was a special design, a stock motor may not be able to duplicate the performance. Remove the load from the motor and check motor doesn't trip.
	Ambient temperature too high.	Verify that the motor is getting enough air for proper cooling. Most motors are designed to run in an ambient temperature of less than 40°C. (Note: A properly operating motor may be hot to the touch.)
	Protector may be defective.	Contact Agent or Altrad Belle.
	Winding shorted or grounded.	Contact Agent or Altrad Belle.
The motor makes a loud rubbing or grinding noise.	Damage to internal workings.	Contact Agent or Altrad Belle.
Unit will not vibrate.	Drive belt tension loose.	Adjust belt tension.
	Drive failure.	Contact Agent or Altrad Belle.
	Vibrator failure.	Contact Agent or Altrad Belle.
Asphalt adhering to plate. Bituminous surface flaking (laminating).	Lack of lubrication.	Use water.
	Over compaction.	Remove and relay.
Low travel speed (plate sinking).	Layer thickness too deep.	Remove some of the material.
	Moisture content too high or too low.	Remove material and adjust.

Maintenance

The Altrad Belle 'PCLX 12/40E' is designed to give many years of trouble free operation. It is recommended that an approved Altrad Belle dealer carries out all major maintenance and repairs. 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 motor and disconnect the power supply.

Always set the 'PCLX 12/40E' on level ground to ensure any fluid levels will be correctly read. Only use recommended oils (see chart below).

Running In Period

The vibrator shaft case oil must be replaced after the first 100 hours use, then after every 500 working hours. For detail on vibrator shaft case oil replacement, see 'Vibrator unit'. The belt tension should be checked after 4 hours use.

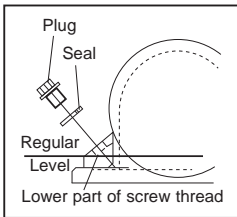
Cleaning

This is an electrical appliance. During cleaning, the electrical components of this machine **MUST NEVER** be exposed to water or liquid of any kind as this could result in serious injury or even death!

Routine Maintenance		Before Each Use	First 4 Hours	First Month /	3 Months / 50 Hours
Cables	Check	✓			
	Replace when necessary				
Drive Belt	Tension		✓	✓	✓

Oil / Fuel Type & Quantity

	Oil Type	Quantity (Litre)	Fuel Type	Capacity (Litre)	Spark Plug Type	Electrode Gap (mm)
Vibrator	SAE 10w40	0.22	N/A	N/A	N/A	N/A



Vibrator Unit.

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).

Your new Altrad Belle 'PCLX 12/40E' 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

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:

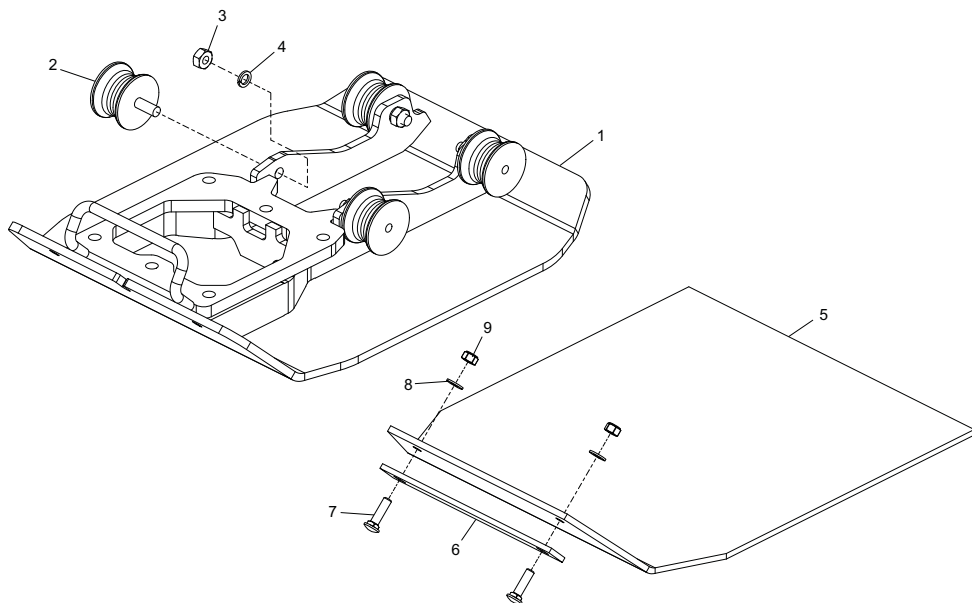
Tel: +44 (0)1298 84606

Fax: +44 (0)1298 84722

Email : warranty@belle-group.co.uk

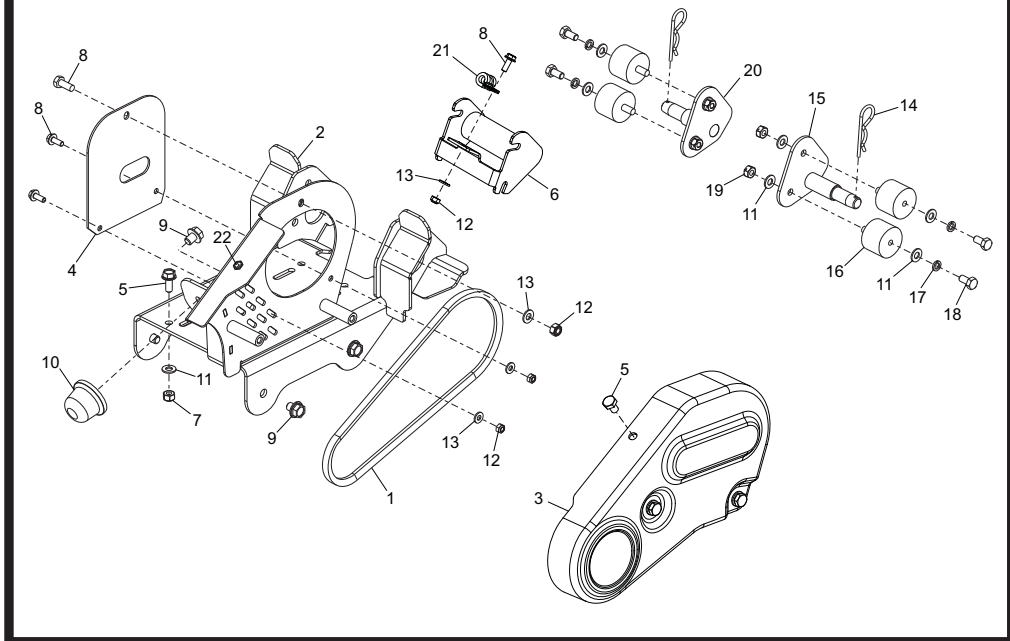
Write to:

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



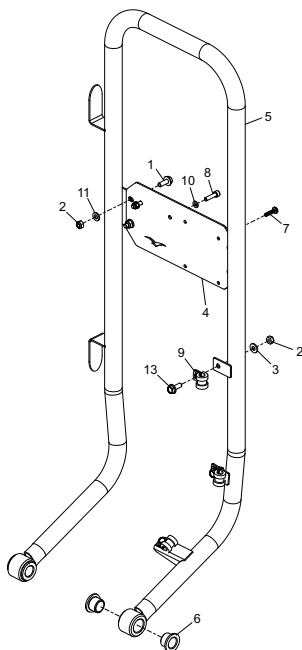
**Baseplate Assembly, Plaque d'embase,
Cto. Placa de Base, Conj. Placa de Base**

1	968/01000	.....	Baseplate.....	Plaque d'embase.....	Placa de base	Placa de Base .....	.....	1
2	21.0.292	.....	Anti-Vibration Mount	Tampon antivibratoire.....	Montura antivibratoria	Bloco Anti-vibração .....	.....	4
3	8/10003	.....	Nut	Ecrou	Tuerca.....	Porca	M10	4
4	4/1003	.....	Washer	Rondelle	Arandela.....	Anilha	M10	4
5	968/99909	.....	Paving Pad	Tampon de Pavage	Tampón de Pavimentación	Bloco de Pavimentação .....	.....	1
6	943/99907	.....	Clamp Strip	Barrette de blocage	Barra de fijación	Tira de Grampeamento .....	.....	1
7	00.0.860	.....	Bolt.....	Boulon	Perno	Perno	M8 x 30	2
8	4/8006	.....	Washer	Rondelle	Arandela	Anilha	M8	2
9	8/8008	.....	Nut	Ecrou	Tuerca.....	Porca	M8	2



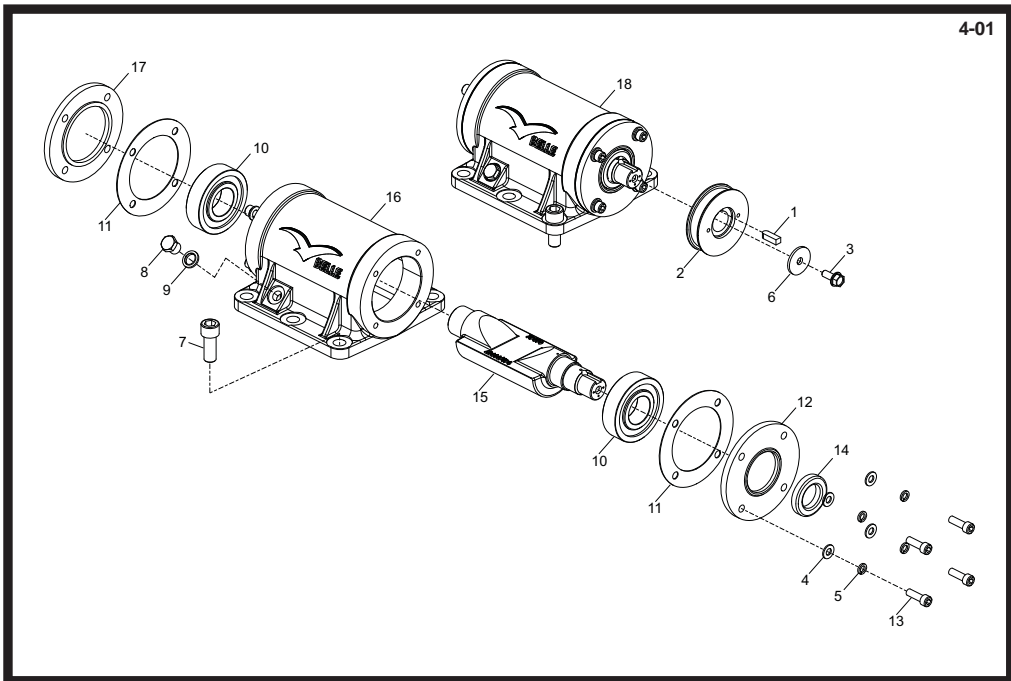
Bedplate Assembly, Ensemble Socle, Conjunto de Bancada, Conjunto da Placa de Apoio

1	21/0148	Belt	Courroie	Correa	Cinta	1
2	968/00100	Bedplate	Plaque d'assise	Bancada	Placa de Apoio	1
3	968/99901S	Belt Guard - Orange	Capot de courroie - Orange	Protector de la correa - Naranja	Guarda da Cinta - Laranja	1
3	968/99901B	Belt Guard - Blue	Capot de courroie - Bleu	Protector de la correa - Azul	Guarda da Cinta - Azul	1
3	968/99901G	Belt Guard - Green	Capot de courroie - Vert	Protector de la correa - Verde	Guarda da Cinta - Verde	1
3	968/99901R	Belt Guard - Red	Capot de courroie - Rouge	Protector de la correa - Roja	Guarda da Cinta - Vermelho	1
3	968/99901Y	Belt Guard - Yellow	Capot de courroie - Jaune	Protector de la correa - Amarillo	Guarda da Cinta - Amarelo	1
3	968/99901W	Belt Guard - White	Capot de courroie - Blanc	Protector de la correa - Blanco	Guarda da Cinta - Branco	1
4	968/99908	Plate	Plaque	Placa	Placa	1
5	7/8037	Screw	Vis	Tornillo	Parafuse	M8 x 20
6	943/20000	Handle	Guidon	Manillar	Punho	1
7	8/8008	Nut	Ecrou	Tuerca	Porca	M8
8	7/6064	Screw	Vis	Tornillo	Parafuse	M6 x 16
9	7/10025	Screw	Vis	Tornillo	Parafuse	M10 x 12
10	21.0.333	Rubber Stop	Butée en caoutchouc	Tope de caucho	Batente de Borracha	1
11	4/8006	Washer	Rondelle	Arandela	Anilha	M8
12	8/6007	Nut	Ecrou	Tuerca	Porca	M6
13	4/6007	Washer	Rondelle	Arandela	Anilha	M6
14	3/2004	R-Clip	Collier en "R"	Abrazadera "R"	Gancho "R"	2
15	968/00500	Pivot	Pivot	Pivote	Pivô	1
16	21/0157	Anti-Vibration Mount	Tampon antivibratoire	Montura antivibratoria	Bloco Anti-vibração	1
17	4/8003	Washer	Rondelle	Arandela	Anilha	4
18	7/8008	Screw	Vis	Tornillo	Parafuse	M8
19	8/8002	Nut	Ecrou	Tuerca	Porca	M8
20	968/00600	Pivot	Pivot	Pivote	Pivô	1
21	900/10200	P-Clip	Collier en "P"	Abrazadera "P"	Gancho "P"	1
22	8/8011	Nut	Ecrou	Tuerca	Porca	M8



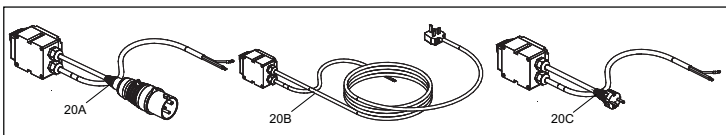
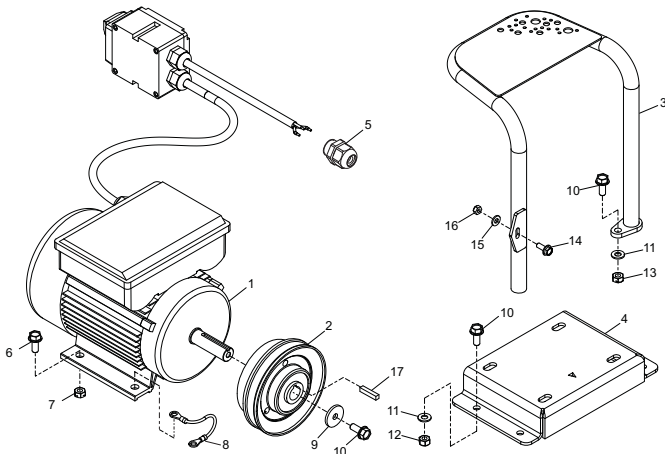
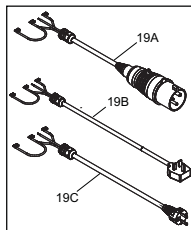
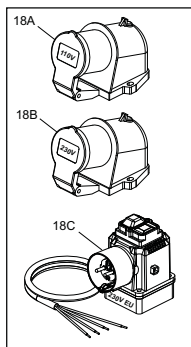
Handle Assembly, Ensemble Poignée, Conjunto de Manillar, Conjunto do Punho

1	7/6034	..... Screw	..... Vis	..... Tornillo	..... Parafuse	..... 4
2	8/6007	..... Nut	..... Ecrou	..... Tuerca	..... Porca	..... 4
3	4/6007	..... Washer	..... Rondelle	..... Arandela	..... Anilha	..... M6 4
4	943/99963	..... Plate	..... Plaque	..... Placa	..... Placa	..... 1
5	943/19000S	..... Handle - Orange	..... Guidon - Orange	..... Manillar - Naranja	..... Punho - Laranja	..... 1
5	943/19000B	..... Handle - Blue	..... Guidon - Bleu	..... Manillar - Azul	..... Punho - Azul	..... 1
5	943/19000G	..... Handle - Green	..... Guidon - Vert.	..... Manillar - Verde	..... Punho - Verde	..... 1
5	943/19000R	..... Handle - Red	..... Guidon - Rouge	..... Manillar - Roja	..... Punho - Vermelho	..... 1
5	943/19000Y	..... Handle - Yellow	..... Guidon - Jaune	..... Manillar - Amarillo	..... Punho - Amarelo	..... 1
5	943/19000W	..... Handle - White	..... Guidon - Blanc	..... Manillar - Blanco	..... Punho - Branco	..... 1
6	50/000068	..... Bush	..... Douille	..... Buje	..... Bucha	..... 4
7	7/5019	..... Screw	..... Vis	..... Tornillo	..... Parafuse	..... M5 x 19 4
8	7/5025	..... Screw	..... Vis	..... Tornillo	..... Parafuse	..... M5 x 20 2
9	900/10200	..... P-Clip	..... Collier en "P"	..... Abrazadera "P"	..... Gancho "P"	..... 1
11	4/6001	..... Washer	..... Rondelle	..... Arandela	..... Anilha	..... M6 2
13	7/6034	..... Screw	..... Vis	..... Tornillo	..... Parafuse	..... M6 x 16 4



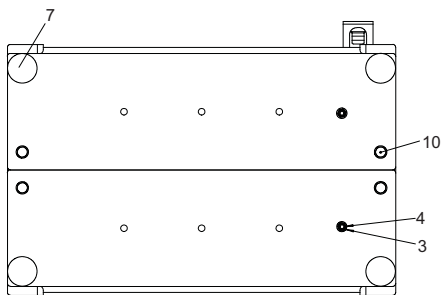
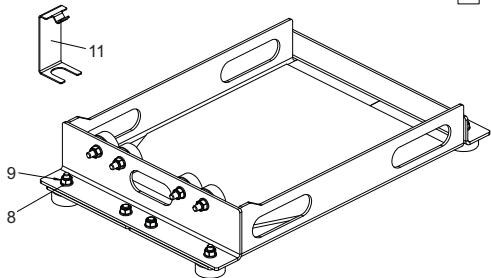
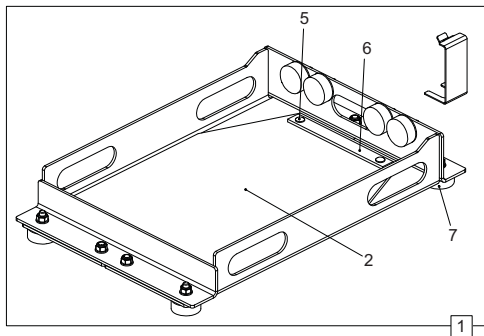
**Vibrator Unit, Unité de Vibration,
Unidade Vibradora, Unidade do Vibrador**

1	06.3.014	Key	Clavette	Chaveta	Chaveta	8 x 7 x 25	1
2	943/99961	Pulley	Poelie	Polea	Polia		1
3	7/8037	Screw	Vis	Tornillo	Parafuse	M8 x 20	1
4	4/8006	Washer	Rondelle	Arandela	Anilha	M8	8
5	4/8003	Washer	Rondelle	Arandela	Anilha	M8	8
6	4/8014	Washer	Rondelle	Arandela	Anilha	M8	1
7	7/14001	Screw	Vis	Tornillo	Parafuse	M14 x 35	6
8	MS12	Bung	Obturateur	Tapón	Tampão	1/4"	1
9	15.0.102	Washer	Rondelle	Arandela	Anilha		1
10	12.1.057	Bearing	Roulement	Cojinete	Rolamento		2
11	943/99904	Gasket	Joint	Junta	Gaxeta		2
12	77.0.015	End Cover	Carter d'extrémité	Tapa de fondo	Tampa de extremidade		1
13	7/8010	Screw	Vis	Tornillo	Parafuse	M8 x 25	4
14	15.0.196	Oil Seal	Joint d'étanchéité à l'huile	Obturator aceite	Vedação de Óleo		1
15	942/99907	Vibrator Shaft	Axe	Eje	Veio		1
16	151/99999	Housing	Carter de boîte de vitesses	Envoltura de la transmisión	Estojo da caixa de engrenagens		1
17	77.0.016	End Cover	Carter d'extrémité	Tapa de fondo	Tampa de extremidade		1
18	PCLX/VIB-03SP	Vibrator Assembly	Ensemble vibreur	Conjunto de vibrador	Conjunto do Vibrador		1



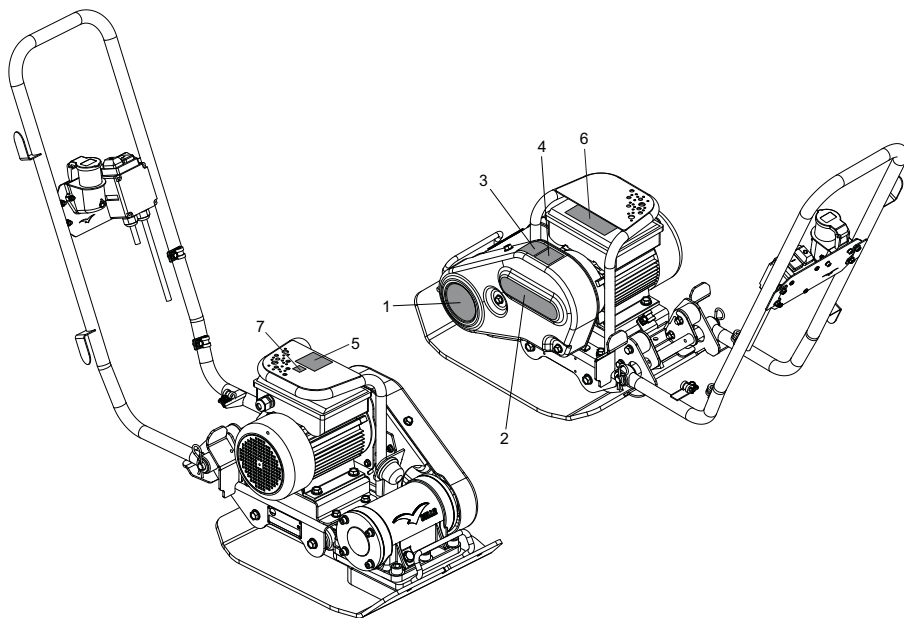
Motor and Drive Kit, Moteur et Kit d'Entraînement, Motor y Kit Transmision, Motor e Kit de Transmissão

1A	20/0126	Motor	Moteur	Motor	Motor	110v	1
1B	20/0124	Motor	Moteur	Motor	Motor	230v	1
2	20/0416	Clutch	Embrayage	Embrague	Embraiagem		1
3	943/18000	Guard	Carène	Defensa	Guarda		1
4	943/99962	Motor Deck	Plate-Forme De Moteur	Cubierta Motor	Plataforma motor		1
5	70/0288	Gland	Presse-étoupe	Prensaestopas	Bucha		1
6	7/10039	Screw	Vis	Tornillo	Parafuso	M10 x 20	4
7	8/10001	Nut	Ecrou	Tuerca	Porca	M10	4
8	71/0303	Earth Cable	Cable - de Terre	Cable - Positivo	Cable - Terra		1
9	4/8014	Washer	Rondelle	Arandela	Anilha		1
10	7/8037	Screw	Vis	Tornillo	Parafuso	M8 x 20	6
11	4/8006	Washer	Rondelle	Arandela	Anilha	M8	5
12	8/8008	Nut	Ecrou	Tuerca	Porca	M8	4
13	8/8002	Nut	Ecrou	Tuerca	Porca	M8	1
14	7/6034	Screw	Vis	Tornillo	Parafuso	M6 x 14	1
15	4/6007	Washer	Rondelle	Arandela	Anilha	M6	1
16	8/6007	Nut	Ecrou	Tuerca	Porca	M6	1
17	21/0419	Key	Clavette	Chaveta	Chave	3/16" x 37.8mm	1
18A	70/0285	Socket	Prise	Enchufe	Tomado	110v	1
18B	70/0286	Socket	Prise	Enchufe	Tomado	230v	1
18C	70/0287	Socket	Prise	Enchufe	Tomado	230v EU	1
19A	71/0288	Harness	Faisceau	Cableado	Arnês	110v	1
19B	71/0284	Harness	Faisceau	Cableado	Arnês	230v	1
19C	71/0283	Harness	Faisceau	Cableado	Arnês	230v EU	1
20A	71/0291	Harness	Faisceau	Cableado	Arnês	110v	1
20B	71/0290	Harness	Faisceau	Cableado	Arnês	230v	1
20C	71/0292	Harness	Faisceau	Cableado	Arnês	230v EU	1



PAT Test Rig, Appareil Portable Dispositif d'Essai, Aparato Portátil de Prueba de Plataforma, Kit de Teste de Aparelho Portátil

1	968/01200.....PAT Test Rig	Appareil portable dispositif.....	Aparato portátil de prueba	Kit de teste de aparelho portátil.....	1
		d'essai	de plataforma.....		
2	968/99909.....Paving Pad	Tampon de pavage.....	Tampon de pavimentación	Bloco de Pavimentação.....	1
3	4/8006.....Washer	Rondelle.....	Arandela	Anilha.....	M8..... 2
4	8/8008.....Nut.....	Ecrou.....	Tuerca	Porca	M8..... 2
5	00.0.860.....Bolt.....	Boulon.....	Perno	Perno	M8 x 30..... 2
6	943/99907.....Clamp Plate	Plaque de serrage	Placa de fijación	Placa de Fixação.....	1
7	00525-B.....Anti-Vibration Mounting	Tampon antivibratoire.....	Montura antivibratoria	Montagem Anti-Vibração	8
8	4/1005.....Washer	Rondelle.....	Arandela	Anilha.....	M10..... 16
9	8/10006.....Nut.....	Ecrou.....	Tuerca	Porca	M10..... 12
10	7/10005.....Screw.....	Vis.....	Tornillo	Parafuso	M10 x 25..... 4
11	968/01205.....Bracket	Patte de montage	Escuadra	Suporte	1



Decals, Autocollant, Rótulo, Decalque

1	800/00300	..... Decal	..... Autocollant	..... Rótulo	..... Decalque	..... Belle.....	..... 2
2	800/99440	..... Decal	..... Autocollant	..... Rótulo	..... Decalque	..... PCLX 12/40E.....	..... 1
3	19.0.373	..... Decal	..... Autocollant	..... Rótulo	..... Decalque	.....	..... 1
4	800/99623	..... Decal	..... Autocollant	..... Rótulo	..... Decalque	..... 104 dB(A).....	..... 1
5	800/99532	..... Decal	..... Autocollant	..... Rótulo	..... Decalque	.....	..... 1
6	800/99531	..... Decal	..... Autocollant	..... Rótulo	..... Decalque	.....	..... 1
7	800/99533 Decal Autocollant Rótulo Decalque 1



BELLE
LIGHT
CONSTRUCTION
EQUIPMENT

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