



Read and fully understand the instructions before operating the Portek Post Driver

the Portek Post Driver

Œ

portek.co.uk

Post Driver

Operators Handbook

Before you start

READ AND UNDERSTAND THIS MANUAL FULLY BEFORE OPERATING THE POST DRIVER



The Post Driver is a high-speed, driving power tool, special safety precautions must be observed to reduce risk of personal injury. Read this manual carefully. Be familiar with the controls and the proper use of the unit. Know how to shut if off quickly.

This graphic accompanied by the words **WARNING** and **DANGER** highlights an act or a condition which can lead to SERIOUS INJURY



ALWAYS WEAR EYE AND EAR PROTECTION.

Always **TURN OFF ENGINE** and make sure the Post Driver has stopped before cleaning, removing or adjusting.

DISCONNECT spark plug lead before cleaning or essential maintenance to the Post Driver.

WARNING! Never modify the Post Driver in any way.

Improper use of any Post Driver can cause **SERIOUS OR FATAL PERSONAL INJURY.**

The engine exhaust from this product contains chemicals to cause cancer, birth defects, or other reproductive harm.

Specifications, descriptions and illustrative material in this manual are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories, and may not include all standard equipment.

Proper safety precautions must be observed. Like all equipment this unit must be handled carefully **DO NOT EXPOSE YOURSELF TO DANGER**. Follow these general rules. Do not permit others to use the Post Driver unless they are thoroughly responsible and have read, and understand the machine manual and are trained in its operation.

Always wear hard hat, ear defenders and safety goggles for protection. Dress properly, do not wear loose clothing or jewellery that could become caught in moving parts of the unit. Safe, sturdy, steel toe cap non skid footwear should always be worn. Long hair should be tied back. Legs and feet be covered to protect from flying debris during operation.

ALWAYS WEAR SAFETY CLOTHING IN CONJUNCTION WITH HAND, EYE, HEARING AND FOOT PROTECTION TO HSE/EN SPECIFICATIONS - SEE PAGE 6













Important safety information

Before use, inspect the entire machine for loose parts (nuts, bolts, screws, etc.) and any damage. Repair or replace as necessary before using this machine. Serious injury to the operator or bystanders could result as well as damage to the machine.

Keep the handles free from oil and fuel.

Do not smoke while mixing fuel or filling tank.



Do not mix fuel in an enclosed room or near open flames. Assure adequate ventilation.

Always mix and store the fuel in a properly marked container that is approved by local codes and ordinances for such usage.

Never remove the fuel tank cap while the engine is running.

Before transport, always empty the fuel tank to avoid leakage.



Never start or run the engine inside a closed room or building. When being used in "closed areas" such as tunnels or trenches, make sure the area is well ventilated. Fumes from the exhaust contain dangerous carbon monoxide.



Never attempt to make engine adjustments while the unit is running. Always make engine adjustments with the unit resting on a flat, clear surface. **REMOVE SPARK**

PLUG LEAD TO PREVENT ACCIDENTAL STARTING

Do not use the unit if it is damaged or poorly adjusted.

Keep children away. Onlookers should be kept at a safe distance from the work area, at least 15 metres/50 feet.

Never leave the machine unattended.



Do not use this unit for any job other than those for which it is intended as described in this manual



While operating the machine do not overreach. Keep proper footing and balance at all times. Do not run the unit while standing on a ladder or on any other unstable footing location. Do not operate one-handed. The operator should be stood in front of the 'Air Filter' and operate the machine.

While lifting the machine, do not pull on the 'Throttle Switch', and carry out idle-speed operation of the machine.



Do not use the unit when you are tired or under the influence of medication, drugs or alcohol.

Important safety information



FOLLOW INSTRUCTIONS FOR CHANGING ACCESSORIES.

Do not store in a closed area where fuel vapours can reach an open flame from hot water heaters, furnaces etc. Store in a locked, well ventilated area only.

Use only PORTEK equipment parts when servicing the unit, this will ensure safe and proper performance of your product. These parts are available from your dealer. The use of any other accessories or attachments may cause a potential hazard to the user, damage to the machine and void this warranty.

When refuelling, be sure to stop the engine. **NEVER** refuel when the engine is running or has overheated. When gasoline spills, be sure to wipe it up completely and properly dispose of those materials before starting the engine.

Stay clear of other workers or bystanders by at least 15 metres/50 feet.

Whenever approaching an operator of the machine, carefully call his attention and confirm the operator stops the engine. Be careful not to startle or distract the operator which can cause an unsafe situation.

Pay attention to loosening and overheating of parts. If there is any abnormality of the machine, stop operation immediately and check that machine carefully. If necessary, have the machine serviced by an authorised dealer. Never continue to operate a machine which may be malfunctioning.

In start-up or during operation of the engine, never touch hot parts such as the muffler, the high voltage wire or the spark plug.

After the engine has stopped, the muffler is still hot. Never place the machine in any places where there are flammable materials (dry grass etc.) combustible gasses or combustible liquids.

AFTER USE

Clean the machine completely, especially the fuel tank, its surroundings and the air cleaner.

Safety and contents

Pay special attention to operation in the rain or just after the rain as the ground may be slippery.

If you slip or fall to the ground, release the throttle lever immediately.

Be careful not to drop the machine or hit it against obstacles.

Before proceeding to adjust or repair the machine, be sure to stop the engine and detach the spark plug cap from the spark plug.

When the machine is placed in storage for a long time, drain fuel from the fuel tank and carburettor, clean the parts, move the machine to a safe place and confirm that the engine is cooled down

Make periodic inspections to assure safe and efficient operation. For a thorough inspection of your machine, please contact a dealer.

Keep the machine away from fire or sparks.

CONTENTS

Important Safety Instructions	2 - 6
Specifications	7
Setting Up	8
Operation	9
Maintenance	11
Troubleshooting & Spare Parts	15
Exploded Drawings	16
Certificate of Conformity	20

Safety Equipment Requirements

Essential Equipment for Your Protection

The Portek Post Driver complies with all current safety standards. For your safety You must wear full protection as specified below.



Head, eye and hearing protection

Eye protection to EN166 – B Hearing protection to EN 352-1: 2002 Face protection visor recommended



Hand protection

Gloves to EN 12477:2001



Foot protection

Boots to EN 20345:2011



Leg protection

Sturdy full length trousers - ideally to EN381 standard

Specifications

Max power and speed:	1500W / 9,000rpm
Max torque and speed:	2.5N.m / 5,000rpm
Impact frequency:	700 ~ 1,350rpm
Impact energy:	20 ~ 55J
Noise level:	LpA: 104dB / LwA: 115dB
Vibration level:	13.891m/s² / K=1.5m/s²
Engine:	Single cylinder, air-cooled, 2 stroke petrol
Cylinder diameter × stroke:	44mm × 34mm
Capacity:	52cc
Max power output:	<1.42kW
Carburettor:	MZA 102H
Ignition:	Non-contact electronic ignition
Spark plug type:	L8RTC
Starting method:	Recoil type 'pull' starter
Fuel mixture:	25:1 - petrol:oil mixture
Fuel tank capacity:	1.3
Fuel consumption rate:	≤0.60l/h
Weight of complete unit:	21kg
Length × width × height:	805mm × 305mm × 270mm

Post Driver box contents

Post Driver with main 4" capacity post holder fitted.

Reducing adaptor for using plastic post holders.

x3 plastic piling sizing rings: 20-49mm, 50-69mm and 70-100mm.

Lubricating grease (60g).

Instruction booklet.

Tool kit - comprising of: spark plug, spark plug handle, 4mm inner hexagon spanner, 5mm inner hexagon spanner, inner hexagon spanner 6mm, T-shaped inner hexagon spanner, straight screw-driver and 8-10mm open spanner.

Setting up

Post Holders and Sizing Rings

The pre-fitted post holder (part no. 075/02) on the machine can be used without further attachments for 4" diameter posts.

For smaller posts the reducing adaptor is screwed onto the end of the post holder, followed by a plastic sizing ring screwed on to the adaptor. You should choose the ring with the closest diameter to the post being driven.

The rings can easily changed by screwing them off/on at the threaded end of the adaptor.

<u></u> Imp

Important!

Care should always be taken to avoid damage to the threads of the post holder adaptor and sizing rings.



Optional Square Post Holder

An additional post holder (part no. 075/01) can be purchased which can be fitted to the machine as an alternative to the standard post holder. This can be used for square and rectangular posts of 4" square, 4x3" and 3" square sizes.



Changing the Post Holder

Using an allen key undo the 4 retaining bolts securing the 'Post Holder' to the machine, firmly slide the old holder off and push the new holder onto the end. Secure the new holder in place with the 4 retaining bolts and tighten firmly to make sure they do not loosen while the machine is in use.



Operation

Preparing the Fuel

Always refuel the Post Driver in a well ventilated area. Use the mixing container supplied to mix the petrol and 2 stroke oil (see specifications) in the ratio of 25:1. Fill the fuel tank of the Post Driver (do not overfill). The fuel level should not exceed the neck of 'Fuel Tank Filling Port'

If you spill fuel during refill, clean up and then wait until the fuel has evaporated completely before restarting the machine. After refuelling, tighten and check the lid of Fuel tank before operation.

Recommended mixing ratios:

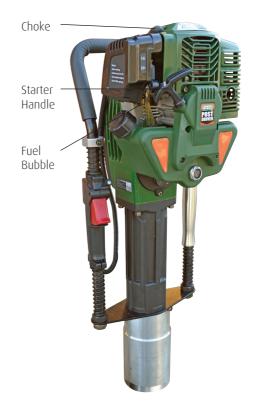
Operating Hours	Petrol:Engine Oil			
Operation within 20 hours	20:1			
Operation of over 20 hours	25:1			

Starting

Before starting the Post Driver, prime the engine with fuel by pressing the flexible plastic bulb several times to pump the fuel into the carburettor. If the engine is cool, close the choke, but make sure you open it after starting.

With the Post Driver upright. Hold the upper part of handle tightly with one hand while the other pulls the pulling handle of starter for over 50cm quickly. Do not let the pulling handle go back freely in repeated pulling but hold it tightly to avoid injury resulting from quick recoil.

Start the engine and then open the choke completely. After idle operation of 5 minutes, start normal work.



Operation

Stopping

To stop the Post Driver, release the 'Throttle Switch' and carry out idle running of the machine for 3-5 minutes. Then pull the 'Stop Switch' to the stop position.

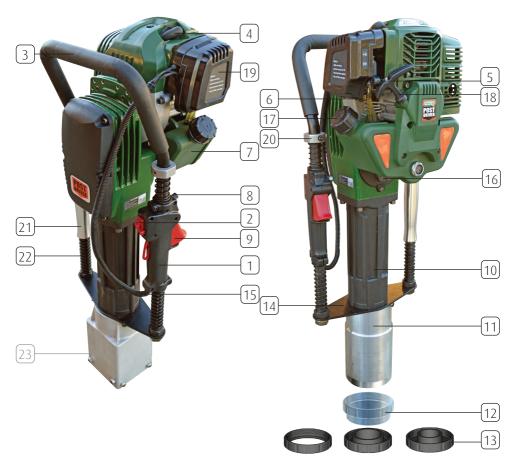


Once you have started the engine, allow the engine to carry out 'Idle Operation' of 5 minutes to give the Post Driver time to reach correct operating temperature.

When the engine is warm, press the 'Throttle Switch' to the appropriate operating position according to the required impact power.

The Post Driver should be run at low or medium-speed in the first 20 hours of operation and in order to extend the service life of the machine.

The Post Driver should not be run at high-speed during operation.



No.	Description		
1	Combination Switch	No.	Description
2	Stop Switch	13	Plastic Sizing Rings
3	Handle	14	Support Plate
4	Spark Plug	15	Throttle Cable
5	Choke Lever	16	Lubricating Grease Filling Port
6	Fuel Bubble	17	Fuel Tank Lid
7	Fuel Tank	18	Pull Cord
8	Throttle Cable Adjuster	19	Air Filter
9	Throttle Switch	20	Positioning Sleeve
10	Hammer Case	21	Grip
11	Standard Post Holder (Part No. 075/02)	22	Damping Spring
12	Reducing Adaptor	23	Optional Post Holder (Part No. 075/01)

Air Filter

Check and clean the air filter on a regular basis. Soot deposits blocking the filter element will reduce the engine power and the service life of your Post Driver. If the filter has a high level of soot deposits, carefully remove it, and clean it with warm water and detergent. Leave to dry before refitting. The air filter should be replaced if damaged in any way.

Fuel Filter

If the fuel filter becomes blocked, the Post Driver engine power will become greatly reduced and you will find the impact energy will become weak. To check and clean the filter open the fuel tank lid and remover the fuel filter from tank, using a metal hook. While the fuel filter is removed, inspect the fuel tank at same time.





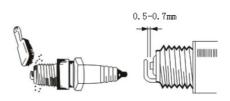


Carburettor

Over time oil residue may build up around the carburettor and the fuel tank, this is normal but you should take care that the greasy oil does not block the oil line to the engine and cause problems when starting. It is highly recommended that when the Post Driver is non-operational for long periods that the fuel is properly drained. To drain the carburettor of fuel, carefully pull out the oil inlet pipe and firmly press the rubber bubble of the carburettor repeatedly to discharge the fuel into a container. Continue to press the fuel bubble until the oil return pipe is empty. Replace the oil inlet pipe and clean off any spillage and oil residue from the Post Driver.

Spark Plug

To ensure normal operation of the engine, the spark plug gap must be properly maintained. Remove any sediment with a wire brush. The proper gap of the spark plug is 0.5 - 0.7mm.



Muffler

Regularly remove any dirt build up with warm water and detergent from both the inlet and outlet of the muffler of the Post Driver.

The Cylinder Heat Sink

The Post Driver is air-cooled so regularly remove dust to ensure cylinder cooling. If dust accumulates on the cylinder heat sink, the cooling effect will be reduced, which may lead to failure of the cylinder.

Gearbox Lubrication

Open the gearbox cover and inspect monthly to make sure the gearbox drive gears are lubricated. Only a thin layer of grease covering the gears is necessary. DO NOT over grease as this can cause irreparable damage and will void the warranty.

Impact Cylinder Lubrication

The impact cylinder should be re-lubricated with 50g of lubricating grease only after the first 50 hours of operation. Check the impact cylinder after every 250 hours operation (or yearly, which ever is sooner). Only add additional grease if there is none visible, this must be done by stripping down the machine to allow the inspection cover and hammer case (item 10 on page 11) to be removed. The impact cylinder should NEVER have more than 50g of lubricating grease. DO NOT over grease as this can cause irreparable damage and will void the warranty.









The Post Driver will provide reliable performance and service if maintained regularly.

The following intervals apply to normal operating conditions. If you are using the Post Driver in very dusty conditions or for long operating periods, adjust accordingly.

adjust accordingly.		S	,⊑	ş	≥	Ξ	2	<u>=</u>	-≒
Please contact your I	Portek Dealer if in any doubt.	before s	after fin	after (every w	every	every	if prob	if requ
Complete Post	Check	Х		Х					
Driver machine	Clean		Χ						
Controls	Check	Х		Х					
Ata Etha	Clean				Χ				Χ
Air Filter	Replace							Χ	
e Lett	Check					Χ			
Fuel Filter	Replace							Х	
Fuel Tank & Cover	Clean		Х	Х					
	Check	Х		Х					
	Tighten	丁							Х
C 1	Check	丁				Х			
Gearbox	Add Grease								Χ
	Check						Χ		
Cylinder	Add Grease								Х
cil	Check					Х			
Silencer	Clean								Χ
C. I'm F.	Check					Χ			
Cooling Fan	Clean								Χ
control o	Electrode gap (0.025" / 0.635mm)					Χ			
Spark Plug	Replace (every 100 operating hours)								Χ
All screws/nuts and fixings for tightness	Check	Х		Х					

ishing work or daily

starting work

ch refuelling stop

50hrs or every year

em or damaged

Warranty

Warranty for your Post Driver is 12 months for domestic use and 3 months for any commercial or contractor use. Please retain your proof of purchase for any warranty claim.

Troubleshooting & spare parts



WARNING! Operating problems are often due to causes that the user can fix. Therefore check the product using this section to eliminate these simple issues. In most cases the problem can be solved quickly.

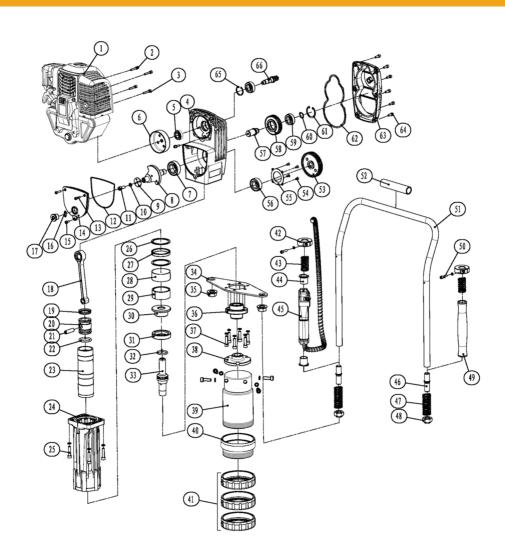


WARNING! Only perform the steps described below! All further inspection, maintenance and repair work must be performed by an authorised service centre or a similarly qualified specialist if you cannot solve the problem yourself! IF IN DOUBT SEEK EXPERT ADVICE

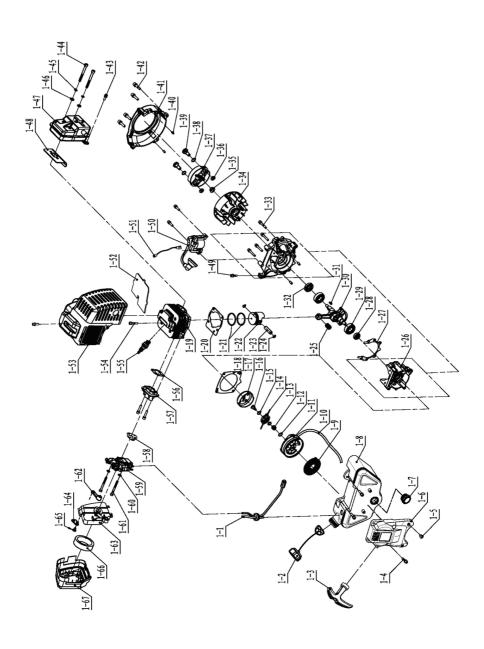
Problem	Possible Cause	Remedy			
	Not enough fuel in fuel tank	Add fuel			
0:((:	Spark plug is wet	Remove spark plug and dry			
Difficulties in starting engine in cooling state.	Spark plug is damaged	Replace spark plug			
engine in cooming state.	Spark plug connector lose	Check and secure			
	Spark plug gap incorrect	Set gap to 0.025" (0.635mm)			
	Not enough fuel in fuel tank	Add fuel			
Difficulties in restarting	Carburettor is blocked	Check and clean			
after a sudden stop.	Fuel filter is blocked	Replace fuel filter			
	High carbon deposits found on spark plug	Remove carbon deposits from spark plug, clean filter			
	Air filter is blocked	Replace air filter			
Slow speed or weak power.	Fuel tank feed pipe or air vent blocked	Check and clean			
or weak power.	High carbon deposits found in combustion chamber	Remove carbon deposits			
Abnormal sound	Damage or abrasion to active components	Replace worn parts			
Adriottilal Soulid	High carbon deposits found in combustion chamber	Remove carbon deposits			
Post Driver works but not efficiently	Rubber impact piston ring is aged or worn	Replace worn parts			
Excessive smoke	Wrong fuel mixture	Drain fuel and replace			

Spare Parts

A full range of spares are available. Please contact your Portek Dealer to request replacement parts.



1	No.	Description 95A Gasoline Engine	Qty	No. 33	Description Shock	Qty
Cheese-head Screw M6×25 3 35 Hexagon Flange Nut M18×1.5 2 3 Inner Hexagon 36 Shock Guide Sleeve 1 4 Gearbox 1 Cheese-head Screw M8×40 6 5 Deep Groove Ball 38 Inner Pile Head 1 6 Driven Disk 1 40 Reducing Adaptor 1 7 Deep Groove Ball 41 Plastic Sizing Ring 3 8 Bearings 6205-2RZ 1 42 Positioning Sleeve 2 8 Impact Crankshaft 1 43 Compression Spring 1 9 Crankshaft Retainer 1 22.5×27.5×60 2 2 10 Elastic Washer 8×2.1 15 44 Switch Handle Guide Sleeve 2 11 Inner Hexagon 45 Combination Switch 1 1 12 Oil Storage Box Seal 1 47 Compression Spring 2 13 Inner Hexagon 2 48 Step Nut <			ı			
Inner Hexagon Cheese-head Screw M6×20 2 37 Inner Hexagon Cheese-head Screw M6×20 2 37 Inner Hexagon Cheese-head Screw M8×40 6 Inner Pile Head 1 Bearings 6202-2RZ 1 39 Standard Piling Socket 1 Plastic Sizing Ring 3 Bearings 6205-2RZ 1 42 Positioning Sleeve 2 2 Reducing Adaptor 1 Plastic Sizing Ring 3 Bearings 6205-2RZ 1 42 Positioning Sleeve 2 2 Reducing Adaptor 1 Plastic Sizing Ring 3 Reducing Adaptor 1 Reducing Adaptor	_		3			
Cheese-head Screw M6×20	3		_			
4 Gearbox 1 Cheese-head Screw M8×40 6 5 Deep Groove Ball Bearings 6202-2RZ 1 39 Standard Piling Socket 1 6 Driven Disk 1 40 Reducing Adaptor 1 7 Deep Groove Ball Bearings 6205-2RZ 1 42 Positioning Sleeve 2 8 Impact Crankshaft 1 43 Compression Spring 2 9 Crankshaft Retainer 1 22.5×27.5×60 2 2 10 Elastic Washer 8x2.1 15 44 Switch Handle Guide Sleeve 2 11 Inner Hexagon 45 Combination Switch 1 1 12 Oil Storage Box Seal 1 47 Compression Spring 2 13 Inner Hexagon 22.5×27.5×123 2 2 22.5×27.5×123 2 14 Oil Storage Box Ead 1 47 Compression Spring 22.5×27.5×123 2 15 Inner Hexagon 22.5×27.5×123 2 2			2			
Bearings 6202-2RZ	4	Gearbox	1			6
6 Driven Disk 1 40 Reducing Adaptor 1 7 Deep Groove Ball Bearings 6205-2RZ 1 41 Plastic Sizing Ring 3 8 Impact Crankshaft 1 42 Positioning Sleeve 2 9 Crankshaft Retainer 1 43 Compression Spring 2 10 Elastic Washer 8×2.1 15 44 Switch Handle Guide Sleeve 2 11 Inner Hexagon 45 Combination Switch 1 1 12 Oil Storage Box Seal 1 47 Compression Spring 2 13 Inner Hexagon 2 48 Step Nut 2 14 Oil Storage Box Lid 1 49 Handle Sleeve 1 15 Inner Hexagon 50 Inner Hexagon 6 Cheese-head Screw M5×16 1 Cheese-head Screw M6×40 2 16 O-ring 18×2.65 1 51 Steel tube handle 1 17 Oil Plug M20×1.5 1 52	5	Deep Groove Ball		38	Inner Pile Head	1
7 Deep Groove Ball Bearings 6205-2RZ 1 42 Positioning Sleeve 2 8 Impact Crankshaft 1 43 Compression Spring 2 9 Crankshaft Retainer 1 22.5×27.5×60 2 2 10 Elastic Washer 8×2.1 15 44 Switch Handle Guide Sleeve 2 11 Inner Hexagon 45 Combination Switch 1 1 12 Oil Storage Box Seal 1 47 Compression Spring 2 13 Inner Hexagon 22.5×27.5×123 2 2 14 Oil Storage Box Lid 1 49 Handle Sleeve 1 15 Inner Hexagon 50 Inner Hexagon 1 1 49 Handle Sleeve 1 16 O-ring 18×2.65 1 51 Steel tube handle 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Bearings 6202-2RZ	1	39	Standard Piling Socket	1
Bearings 6205-2RZ	6	Driven Disk	1	40	Reducing Adaptor	1
8 Impact Crankshaft 1 43 Compression Spring 9 Crankshaft Retainer 1 22.5×27.5×60 2 10 Elastic Washer 8×2.1 15 44 Switch Handle Guide Sleeve 2 11 Inner Hexagon 45 Combination Switch 1 12 Oil Storage Box Seal 1 47 Compression Spring 13 Inner Hexagon 22.5×27.5×123 2 14 Oil Storage Box Lid 1 49 Handle Sleeve 1 15 Inner Hexagon 50 Inner Hexagon Cheese-head Screw M5×16 1 Cheese-head Screw M6×40 2 16 O-ring 18×2.65 1 51 Steel tube handle 1 17 Oil Plug M20×1.5 1 52 Handle hose 1 18 Impact Connecting Rod 1 53 Big Gear 1 19 Lip-shaped Ring 54 Cross Recessed Countersunk 35.5×45.5×6 1 Head Screw M5×10 4 20 <td>7</td> <td>Deep Groove Ball</td> <td></td> <td>41</td> <td>Plastic Sizing Ring</td> <td>3</td>	7	Deep Groove Ball		41	Plastic Sizing Ring	3
9 Crankshaft Retainer 1 22.5×27.5×60 2 10 Elastic Washer 8×2.1 15 44 Switch Handle Guide Sleeve 2 11 Inner Hexagon 45 Combination Switch 1 12 Oil Storage Box Seal 1 47 Compression Spring 13 Inner Hexagon 22.5×27.5×123 2 14 Oil Storage Box Lid 1 49 Handle Sleeve 1 15 Inner Hexagon 50 Inner Hexagon 1 Cheese-head Screw M6×40 2 16 O-ring 18×2.65 1 51 Steel tube handle 1 17 Oil Plug M20×1.5 1 52 Handle hose 1 18 Impact Connecting Rod 1 53 Big Gear 1 19 Lip-shaped Ring 54 Cross Recessed Countersunk 35.5×45.5×6 1 Head Screw M5×10 4 20 Impact Piston Pin 1 56 Deep Groove Ball 21 Impact Cy		Bearings 6205-2RZ	1	42	Positioning Sleeve	2
10	8	Impact Crankshaft	1	43		
11 Inner Hexagon 45 Combination Switch 1 12 Oil Storage Box Seal 1 47 Compression Spring 13 Inner Hexagon 22.5×27.5×123 2 14 Oil Storage Box Lid 1 49 Handle Sleeve 1 15 Inner Hexagon 50 Inner Hexagon 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9	Crankshaft Retainer			22.5×27.5×60	
Cheese-head Screw M8×20 5 46 Connecting Thread Head 2 12 Oil Storage Box Seal 1 47 Compression Spring 13 Inner Hexagon 22.5×27.5×123 2 14 Oil Storage Box Lid 1 49 Handle Sleeve 1 15 Inner Hexagon 50 Inner Hexagon 1 Cheese-head Screw M6×40 2 16 O-ring 18×2.65 1 51 Steel tube handle 1 17 Oil Plug M20×1.5 1 52 Handle hose 1 18 Impact Connecting Rod 1 53 Big Gear 1 19 Lip-shaped Ring 54 Cross Recessed Countersunk 35.5×45.5×6 1 Head Screw M5×10 4 20 Impact Piston 1 55 Bearing Holder 1 21 Impact Piston Pin 1 56 Deep Groove Ball 22 O-ring 35.5×5 1 Bearings 6204-2RZ 1 23 Impact Cylinder<	10	Elastic Washer 8×2.1	15	44	Switch Handle Guide Sleeve	2
12 Oil Storage Box Seal 1 47 Compression Spring 13 Inner Hexagon 22.5×27.5×123 2 14 Oil Storage Box Lid 1 49 Handle Sleeve 1 15 Inner Hexagon 50 Inner Hexagon 1 Cheese-head Screw M6×40 2 16 O-ring 18×2.65 1 51 Steel tube handle 1 17 Oil Plug M20×1.5 1 52 Handle hose 1 18 Impact Connecting Rod 1 53 Big Gear 1 19 Lip-shaped Ring 54 Cross Recessed Countersunk 35.5×45.5×6 1 Head Screw M5×10 4 20 Impact Piston 1 55 Bearing Holder 1 21 Impact Piston Pin 1 56 Deep Groove Ball 1 22 O-ring 35.5×5 1 Bearings 6204-2RZ 1 23 Impact Cylinder 1 57 Gear Shaft 1 24 <	11			45		
13						2
Cheese-head Screw M5×20 2 48 Step Nut 2 14 Oil Storage Box Lid 1 49 Handle Sleeve 1 15 Inner Hexagon 50 Inner Hexagon Cheese-head Screw M6×40 2 16 O-ring 18×2.65 1 51 Steel tube handle 1 17 Oil Plug M20×1.5 1 52 Handle hose 1 18 Impact Connecting Rod 1 53 Big Gear 1 19 Lip-shaped Ring 54 Cross Recessed Countersunk 35.5×45.5×6 1 Head Screw M5×10 4 20 Impact Piston Pin 1 55 Bearing Holder 1 21 Impact Piston Pin 1 56 Deep Groove Ball 1 22 O-ring 35.5×5 1 Bearings 6204-2RZ 1 23 Impact Cylinder 1 57 Gear Shaft 1 24 Aluminium Hammer Case 1 58 Middle Gear 1			1	47		
14 Oil Storage Box Lid 1 49 Handle Sleeve 1 15 Inner Hexagon	13					
Inner Hexagon Cheese-head Screw M5×16 1 Cheese-head Screw M6×40 2					·	
Cheese-head Screw M5×16 1 Cheese-head Screw M6×40 2 16 O-ring 18×2.65 1 51 Steel tube handle 1 17 Oil Plug M20×1.5 1 52 Handle hose 1 18 Impact Connecting Rod 1 53 Big Gear 1 19 Lip-shaped Ring 54 Cross Recessed Countersunk 35.5×45.5×6 1 Head Screw M5×10 4 20 Impact Piston 1 55 Bearing Holder 1 21 Impact Piston Pin 1 56 Deep Groove Ball 22 O-ring 35.5×5 1 Bearings 6204-2RZ 1 23 Impact Cylinder 1 57 Gear Shaft 1 24 Aluminium Hammer Case 1 58 Middle Gear 1 25 Inner Hexagon 59 Deep Groove Ball 25 Inner Hexagon 59 Deep Groove Ball 26 Bearings 6203-2RZ 2 26 Iron Ring 2 60 Shaft Retainer 17 1 27 Small Vibration Absorption Ring 1 61 Hole Retainer 40 1 28 Opening Ring Rubber Circle 1 62 Gearbox Cover Seal 1 29 Opening Ring 1 63 Gearbox Cover 1 30 Iron Handle Sleeve 1 64 Inner Hexagon 1 31 Big Vibration Absorption Ring 1 Cheese-head Screw M6×16 6 32 O-ring 33×4 1 65 Hole Retainer 35 1			1			1
16 O-ring 18×2.65 1 51 Steel tube handle 1 17 Oil Plug M20×1.5 1 52 Handle hose 1 18 Impact Connecting Rod 1 53 Big Gear 1 19 Lip-shaped Ring 54 Cross Recessed Countersunk 4 20 Impact Piston 1 55 Bearing Holder 1 21 Impact Piston Pin 1 56 Deep Groove Ball 1 22 O-ring 35.5×5 1 Bearings 6204-2RZ 1 23 Impact Cylinder 1 57 Gear Shaft 1 24 Aluminium Hammer Case 1 58 Middle Gear 1 25 Inner Hexagon 59 Deep Groove Ball 59 26 Iron Ring 2 60 Shaft Retainer 17 1 27 Small Vibration Absorption Ring 1 61 Hole Retainer 40 1 28 Opening Ring 1 63 Gearbox Cover	15			50		
17 Oil Plug M20×1.5 1 52 Handle hose 1 18 Impact Connecting Rod 1 53 Big Gear 1 19 Lip-shaped Ring 54 Cross Recessed Countersunk 35.5×45.5×6 1 Head Screw M5×10 4 20 Impact Piston 1 55 Bearing Holder 1 21 Impact Piston Pin 1 56 Deep Groove Ball 22 O-ring 35.5×5 1 Bearings 6204-2RZ 1 23 Impact Cylinder 1 57 Gear Shaft 1 24 Aluminium Hammer Case 1 58 Middle Gear 1 25 Inner Hexagon 59 Deep Groove Ball 25 Inner Hexagon 6203-2RZ 2 26 Iron Ring 2 60 Shaft Retainer 17 1 27 Small Vibration Absorption Ring 1 61 Hole Retainer 40 1 28 Opening Ring Rubber Circle 1 62 Gearbox Cover Seal 1 29 Opening Ring 1 63 Gearbox Cover 1 30 Iron Handle Sleeve 1 64 Inner Hexagon 1 31 Big Vibration Absorption Ring 1 Cheese-head Screw M6×16 6 32 O-ring 33×4 1 65 Hole Retainer 35 1						
18Impact Connecting Rod153Big Gear119Lip-shaped Ring 35.5×45.5×654Cross Recessed Countersunk Head Screw M5×10420Impact Piston155Bearing Holder121Impact Piston Pin156Deep Groove Ball22O-ring 35.5×51Bearings 6204-2RZ123Impact Cylinder157Gear Shaft124Aluminium Hammer Case158Middle Gear125Inner Hexagon59Deep Groove Ball1Cheese-head Screw M8×354Bearings 6203-2RZ226Iron Ring260Shaft Retainer 17127Small Vibration Absorption Ring 161Hole Retainer 40128Opening Ring Rubber Circle162Gearbox Cover Seal130Iron Handle Sleeve164Inner Hexagon31Big Vibration Absorption Ring165Hole Retainer 351						
Lip-shaped Ring 35.5×45.5×6 1 Head Screw M5×10 4 Deep Groove Ball Co-ring 35.5×5 1 Deep Groove Ball Deep Gro						
35.5×45.5×6 1 Head Screw M5×10 4 20 Impact Piston 1 55 Bearing Holder 1 21 Impact Piston Pin 1 56 Deep Groove Ball 22 O-ring 35.5×5 1 Bearings 6204-2RZ 1 23 Impact Cylinder 1 57 Gear Shaft 1 24 Aluminium Hammer Case 1 58 Middle Gear 1 25 Inner Hexagon 59 Deep Groove Ball 26 Cheese-head Screw M8×35 4 Bearings 6203-2RZ 2 27 Iron Ring 2 60 Shaft Retainer 17 1 28 Opening Ring Rubber Circle 1 62 Gearbox Cover Seal 1 29 Opening Ring 1 63 Gearbox Cover Seal 1 29 Opening Ring 1 63 Gearbox Cover 1 30 Iron Handle Sleeve 1 64 Inner Hexagon 1 31 Big Vibration Absorption Ring 1 Cheese-head Screw M6×16 6 32 O-ring 33×4 1 65 Hole Retainer 35 1			1		9	7
Impact Piston 1 55 Bearing Holder 1	19			54		
Impact Piston Pin 1 56 Deep Groove Ball	20					
22O-ring 35.5×51Bearings 6204-2RZ123Impact Cylinder157Gear Shaft124Aluminium Hammer Case158Middle Gear125Inner Hexagon59Deep Groove Ball1Cheese-head Screw M8×354Bearings 6203-2RZ226Iron Ring260Shaft Retainer 17127Small Vibration Absorption Ring 161Hole Retainer 40128Opening Ring Rubber Circle162Gearbox Cover Seal129Opening Ring163Gearbox Cover130Iron Handle Sleeve164Inner Hexagon31Big Vibration Absorption Ring165Hole Retainer 351		•				I
Impact Cylinder 1 57 Gear Shaft 1 Aluminium Hammer Case 1 58 Middle Gear 1 Inner Hexagon 59 Deep Groove Ball Bearings 6203-2RZ 2 Iron Ring 2 60 Shaft Retainer 17 1 Small Vibration Absorption Ring 1 61 Hole Retainer 40 1 Opening Ring Rubber Circle 1 62 Gearbox Cover Seal 1 Opening Ring 1 63 Gearbox Cover 1 Iron Handle Sleeve 1 64 Inner Hexagon 1 Big Vibration Absorption Ring 1 Cheese-head Screw M6×16 6 O-ring 33×4 1 65 Hole Retainer 35 1				56		1
Aluminium Hammer Case 1 58 Middle Gear 1 Inner Hexagon 59 Deep Groove Ball Bearings 6203-2RZ 2 Inon Ring 2 60 Shaft Retainer 17 1 Small Vibration Absorption Ring 1 61 Hole Retainer 40 1 Sopening Ring Rubber Circle 1 62 Gearbox Cover Seal 1 Opening Ring 1 63 Gearbox Cover 1 Inner Hexagon 1 64 Inner Hexagon 1 Big Vibration Absorption Ring 1 Cheese-head Screw M6×16 6 Cheese-head Screw M6×16 6 August 1 65 Hole Retainer 35 1				E 7		
Inner Hexagon Cheese-head Screw M8×35 4 Bearings 6203-2RZ 2						
Cheese-head Screw M8×35 4 Bearings 6203-2RZ 2 26 Iron Ring 2 60 Shaft Retainer 17 1 27 Small Vibration Absorption Ring 1 61 Hole Retainer 40 1 28 Opening Ring Rubber Circle 1 62 Gearbox Cover Seal 1 29 Opening Ring 1 63 Gearbox Cover 1 30 Iron Handle Sleeve 1 64 Inner Hexagon 31 Big Vibration Absorption Ring 1 Cheese-head Screw M6×16 6 32 O-ring 33×4 1 65 Hole Retainer 35 1			I			ı
26Iron Ring260Shaft Retainer 17127Small Vibration Absorption Ring 161Hole Retainer 40128Opening Ring Rubber Circle162Gearbox Cover Seal129Opening Ring163Gearbox Cover130Iron Handle Sleeve164Inner Hexagon31Big Vibration Absorption Ring1Cheese-head Screw M6×16632O-ring 33×4165Hole Retainer 351	23		1	39		2
27Small Vibration Absorption Ring 161Hole Retainer 40128Opening Ring Rubber Circle162Gearbox Cover Seal129Opening Ring163Gearbox Cover130Iron Handle Sleeve164Inner Hexagon31Big Vibration Absorption Ring1Cheese-head Screw M6×16632O-ring 33×4165Hole Retainer 351	26			60		
Opening Ring Rubber Circle 1 62 Gearbox Cover Seal 1 Opening Ring 1 63 Gearbox Cover 1 Iron Handle Sleeve 1 64 Inner Hexagon Big Vibration Absorption Ring 1 Cheese-head Screw M6×16 6 Oring 33×4 1 65 Hole Retainer 35 1						
29Opening Ring163Gearbox Cover130Iron Handle Sleeve164Inner Hexagon31Big Vibration Absorption Ring1Cheese-head Screw M6×16632O-ring 33×4165Hole Retainer 351						-
30 Iron Handle Sleeve 1 64 Inner Hexagon 31 Big Vibration Absorption Ring 1 Cheese-head Screw M6×16 6 32 O-ring 33×4 1 65 Hole Retainer 35 1			•			-
31 Big Vibration Absorption Ring 1 Cheese-head Screw M6×16 6 32 O-ring 33×4 1 65 Hole Retainer 35 1						'
32 O-ring 33×4 1 65 Hole Retainer 35 1			•	07		6
				65		
	52	5 mg 551	'			



No.	Description	Qty	No.	Description	Qty
1-1	Oiler rubber assembly	1	1-36	Small washer 8.5×15×1.6	2
1-2	Fuel Tank Lid		1-37	Clutch inner	1
	Assembly Screw M5×20	1	1-38	Wave washer 10.5×15×0.5	2
1-3	Start Handle	1	1-39	Shaft Screw M8×10	2
1-4	Inner six angle cylinder head		1-40	Positioning Pin 5×10	2
	combined screw M5×20	4	1-41	Wind Scooper	1
1-5	Cross recessed countersunk		1-42	Inner six angle cylinder	
	head tapping screws ST4.8×13	2		head combined screw M6×25	4
1-6	starter	1	1-43	Inner six angle cylinder	
1-7	Oil Mirror	1		head combined screw M5×14	1
1-8	Fuel Tank	1	1-44	Internal six angle cylinder	
1-9	Start Disc Spring	1		head screws M6×55	2
1-10	Rope	1	1-45	Elastic washer 6×1.6	2
1-11	Start Rope Wheel	1	1-46	Plain washer C level 6×1.6	2
1-12	Washer 10×14×0.5	1	1-47	Silencer	1
1-13	Start Spring	1	1-48	Silencer Paper Pad	1
1-14	Start Paw Assembly	1	1-49	Inner six angle cylinder head	
1-15	Washer 9.5×12.5×0.8	2		combined screw M5×16	2
1-16	Start jaw screw	1	1-50	Igniter Assembly	1
1-17	Start Dial Disc	1	1-51	Stop Wire	1
1-18	Starter Gasket	1	1-52	Cover Plate	1
1-19	Cylinder	1	1-53	Cover	1
1-20	Cylinder Gasket	1	1-54	Inner six angle cylinder head	
1-21	Piston Ring	2		combined screw M5×25	10
1-22	Piston	1	1-55	Spark Plug	1
1-23	Piston Pin	1	1-56	Inlet Pipe Gasket	1
1-24	Clamp Spring	2	1-57	Inlet Pipe	1
1-25	Needle Roller Bearing		1-58	Carburettor Gasket	1
	HK101316	1	1-59	Carburettor	1
1-26	Left and right crankcase	1	1-60	Plain washer C level 5×12×1	2
1-27	Case Sealing Paper Pad	1	1-61	Internal six angle cylinder	
1-28	Oil Seal 12×22×7	1		head screws M5×50	2
1-29	Bearing 6202	2	1-62	Throttle switch	1
1-30	Crankshaft Assembly	1	1-63	Air Filter Seat	1
1-31	Woodruff Key 3×5×13	1	1-64	Door stopper	1
1-32	Oil Seal 15×30×7	1	1-65	Countersunk head	
1-33	Inner six angle cylinder			screws C ST4×8	1
	head combined screw M5×35	4	1-66	Filter Screen	1
1-34	Magnetic Flywheels	1	1-67	Air Filter Cover	1
1-35	Hexagon flange nuts	1			

Declaration of Conformity

EC Declaration of Conformity

Portek Ltd, Bryn Hall, Knolton Bryn, Overton on Dee,Wrexham, LL13 OLF declare that the machinery named below conforms to the requirements of EC Council Machinery Directive, Annex II

Designation of Machinery: Portek Post Driver

Relevant EC Council Directives: 2006/42/EC (Machinery Directive) 2014/30/EU (Electromagnetic Compatibility Directive)

> Applied Harmonised Standards: BS EN ISO 12100:2010 BS EN 60745-1:2009+A11:2010 BS EN 55012:2007+A1:2009

Signature of Manufacturer's Representative:



Declaration made by Steve Morris Design Engineer on 02/07/2018.



Portek Ltd. Bryn Hall, Knolton Bryn Overton-on-Dee Wrexham, LL13 OLF Tel: 01234 889 454 Fax: 01234 889 464

General enquiries

Email: info@portek.co.uk

Scan the QR code to retrieve the instruction book in digital (PDF) format. You can then save it for future reference.

