

DP4-DP6

OPERATING INSTRUCTIONS







To reduce the risk of injury, all operators and maintenance personnel must read and understand these instructions before operating, changing accessories, or performing maintenance on this power equipment. All possible situations cannot be covered in these instructions. However care must be exercised by everyone using, maintaining or working near this equipment.



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INTRODUCTION

Thank you for your selection of Parchem equipment.

Parchem have specialised in the design and manufacture of quality products since 1951.

We have taken care in the design, manufacture and testing of this product. Should service or spare parts be required, prompt and efficient service is available from our branches.

General Safety Instructions for the Operation of Power Equipment

The goal of Parchem is to produce power equipment that helps the operator work safely and efficiently. The most important safety device for this or any tool is the operator. Care and good judgement are the best protection against injury. All possible hazards cannot be covered here, but we have tried to highlight some of the important items, individuals should look for and obey Caution, Warning and Danger signs placed on equipment, and displayed in the workplace. Operators should read and follow safety instructions packed with each product.

Learn how each machine works. Even if you have previously used similar machines, carefully check out each machine before you use it. Get the "feel" of it and know its capabilities, limitations, potential hazards, how it operates, and how it stops.

APPLICATIONS

Heavy duty concrete vibrators, 28 mm - 60 mm dia. Submersible pumps, up to 50 mm discharge.

FUNCTION

This portable drive unit is designed to power flexshaft drive submersible pumps and model VP (pendulum) vibrators. A quick action 60 mm diameter flexible shaft coupling with aluminium alloy housing, rotary trigger latch and hardened 45 mm 3-tooth dog drive enable ease of use by allowing the operator to simply engage or disengage the flexible shaft coupling, to facilitate either a change of position or a change of flexshaft driven device.

FUNCTION AND CONTROLS

BELL HOUSING / ROTARY TRIGGER

Is mounted directly to the motor and enables quick connection between the coupling and the 3-tooth dog drive mounted on the crankshaft. The rotary trigger latch assures a positive engagement between drive dogs.

MOTOR

The motor is controlled by an on/off switch or push button switch mounted on the motor below the fuel tank.

To STOP the machine TURN the switch to the OFF position or PRESS the push button in until the motor stops.

Honda, Robin and Vanguard motors are fitted with an oil sensor device that will stop the motor or prevent starting when the crankcase oil level falls below a safe level.

The motor speed is controlled by a throttle lever mounted below the air cleaner. The throttle should be adjusted to the maximum position when operating a flexible shaft driven device.

HAZARDS AND RISKS

NEVER allow any person to operate a machine without adequate instruction.

ENSURE all operators read, understand and follow the operating instructions.

SERIOUS INJURY may result from improper or careless use of this machine

! MECHANICAL HAZARDS

DO NOT operate the machine unless all protective guards are in place

KEEP hands and feet clear of rotating and moving parts as they will cause injury if contacted.

BE CAREFUL not to come in contact with the muffler when the engine is hot, since it can cause severe burns.

ENSURE that the motor operation switch is in the OFF position and the spark plug ignition lead is disconnected before removing guards or making adjustments.

ENSURE both the machine and the operator are stable by setting up on level terrain and the machine will not move or fall while in operation or unattended.

DO NOT leave the machine in operation while it is unattended.

DO NOT increase the governed no-load motor speed above 3,000 r/min on an engine with a power output of less than 5.6 kW, or a flexible shaft smaller than 16×38 mm. Any increase may result in personal injury and damage to the machine.

KEEP bystanders and animals clear of the work area.

ENSURE that repairs to the motor and machine are carried out by COMPETENT personnel.

! FIRE & EXPLOSION HAZARDS

PETROL is extremely flammable and explosive under certain conditions.

ENSURE that petrol is only stored in an approved storage container.

DO NOT refuel the motor while it is in operation or hot.

DO NOT refuel the motor in the vicinity of sparks, a naked flame or a person smoking.

DO NOT overfill the fuel tank and avoid spilling petrol when refuelling. Spilled petrol or petrol vapour may ignite. If spillage occurs, ensure that the area is dry before starting the motor.

ENSURE that the fuel tank cap is securely fitted after refuelling.

! CHEMICAL HAZARDS

DO NOT operate or refuel a petrol motor in a confined area without adequate ventilation.

CARBON MONOXIDE exhaust gases from internal combustion motor driven units can cause death in confined spaces.

! NOISE HAZARDS

EXCESSIVE NOISE can lead to temporary or permanent loss of hearing.

! ADDITIONAL HAZARDS

Slip/Trip/Fall is a major cause of serious injury or death.

Beware of excess hose, the flexible shaft and water left on the walking or work surface.

DO NOT allow waste water to accumulate under foot.

Exercise caution and ensure that the perimeter of elevated formwork or platforms is protected.

Exercise care when working in the vicinity of unprotected holes or excavations.

OPERATION

For information on correct starting procedures refer to the engine manufacturers operation manual.

Before engaging the flexshaft with a petrol drive unit start the motor using the recoil starter, increase the speed to full throttle and allow it to warm up for a few minutes. (If the motor is fitted with an on/off switch this must first be turned ON before starting.)

Stop the motor.

Turn the bell housing trigger 180 degrees.

Insert the flexshaft coupling fully into the housing of the drive unit and release the trigger.

Push the coupling into the housing and twist the flexible shaft until the drive dogs are fully engaged and the trigger returns to the horizontal position.

The motor may now be started

Drive units should be operated on a level surface. If the surface is not level the drive unit should be restrained to ensure that it does not move due to vibration or the weight of a pump and hose or vibrator.

CARE AND PREVENTIVE MAINTENANCE

Check the condition of the drive dog regularly and that the three tooth drive dogs are fully meshed. The position of the drive dog on the crank shaft is critical and should also be checked. The correct distance from the face of the teeth to the face of the bell housing is 73 mm (2.875 inches).

Worn coupling housings and poorly operating triggers together with worn grooves in the shaft coupling will lead to a shorter operating life and should be replaced before they have worn excessively.

Check the oil level in the petrol motor crankcase daily.

SERVICE

Change the oil in the petrol motor crankcase regularly to minimise wear.

Inspect, clean and/or replace the motor air cleaner regularly, particularly when operating in a dusty environment.

Inspect, clean and/or replace the spark plug regularly.

CLEANING AND STORAGE

Keep the unit clean and free of concrete residue.

Ensure the cooling fins on the motor are kept unobstructed.

SPECIFICATIONS

MOTOR

INIC I UI	1	
DP4 -	Honda GX160	4.1 kW output petrol
	Robin EY20	3.7 kW output petrol
DP6 -	Honda GX240	6.0 kW output petrol

GOVERNED SPEED

DP4 -	3,000 r/min
DP6 -	3,000 - 3,600 r/min
Weight (k	(g)

DP4 ECONOMY MODEL DP4 STANDARD MODEL

Honda 28

Honda 25 Robin 26

Robin 28

DP6

Honda 34

SHIPPING SIZE (L X W X H)

DP4 500 mm x 446 mm x 545 mm DP6 540 mm x 480 mm x 610 mm

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES AND CORRECTION
Motor will not start	Check the ON/OFF switch to ensure that it is switched 'ON'.
	Check the fuel supply.
	If a Honda or Robin motor is fitted check the crankcase oil level as an oil sensor device is fitted to these motors which prevents starting and stops the motor when oil level is low
	Ensure the spark plug ignition lead is connected
	Check the carburettor jet and bowl to ensure they are clean
Motor stops	Check the fuel suppy
	Check that the fuel cock is turned on
	Check the condition of the air filter
Petrol	Check the condition of the air filter
Motor lacks power	Check the condition of the spark plug



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