



DIESEL DRIVE UNIT

DD4

OPERATING INSTRUCTIONS



WARNING

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 a throttle lever mounted on the motor below the fuel tank.

To STOP the machine TURN the throttle lever to the STOP position.

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 throttle lever is in the STOP position 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.

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

ENSURE that fuel 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 fuel when refuelling. 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 diesel motor in a confined area without adequate ventilation.

! 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 diesel 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. 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 oil level in the motor crankcase daily.

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.

SERVICE

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

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

CLEANING AND STORAGE

Keep the unit clean and free of concrete residue.

Ensure the cooling fins on the motor are kept unobstructed.

SPECIFICATIONS

MOTOR

DD4 -

Yanmar L48AE 3.5 kW output diesel.

GOVERNED SPEED

DD4 - 3,000 r.p.m

Weight (kg)

DD4 -

Yanmar 43

SHIPPING SIZE (L X W X H)

DD4 460 mm x 440 mm x 540 mm

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES AND CORRECTION
Motor will not start	<ul style="list-style-type: none">■ Check the ON/OFF switch to ensure that it is switched 'ON'.■ Check the fuel supply.
Motor stops	<ul style="list-style-type: none">■ Check the fuel supply■ Check that the fuel cock is turned on■ Check the condition of the air filter
Motor lacks power	<ul style="list-style-type: none">■ Check the condition of the air filter



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