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# INSTRUCTION MANUAL

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12V / 240V DIESEL PUMP KITS

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# CENTAURUS

## INTRODUCTION

Thank you for purchasing a Centaurus Electric Diesel Fuel Pump.

The Centaurus Electric Diesel Fuel Pump kit is supplied complete with Fuel Nozzle, 2m x 1" Suction Hose, 4m x 1" Delivery Hose, 2M power cable, alligator clips and fittings.

## GENERAL INFORMATION

This manual assists you in operating and maintaining your electric diesel fuel pump. The information contained will help ensure many years of dependable trouble-free operation.

Please read and retain this instruction manual to assist you in the operation and maintenance of this quality product. If you require any further assistance please contact your local Centaurus distributor.

## DESCRIPTION

This diesel transfer pump is designed to reliably transfer diesel (only). The pump is a self-priming, positive displacement, rotary vane pump operating on 12V DC or 240V according to model (see specifications). The pump will deliver 40-80 litres per minute (check specifications), has a built-in bypass valve. The motor has a 30 minute duty cycle.

## ASSEMBLY

Use oil resistant pipe sealant or Teflon® tape on all pipe threads.

1. Fit the 1" hose strainer to the end of the suction hose and secure with the hose clamp supplied.
2. Connect the suction hose assembly to the pump inlet (refer to direction of flow on pump)
3. Connect the delivery hose to the outlet on the pump.
4. Fit the swivel to the automatic nozzle inlet, then connect the swivel to the delivery hose.

## PUMP INSTALLATION

1. The pump can be installed in horizontal or vertical axes, in position protected from rain and extreme conditions
2. Position the pump assembly securely to the desired location.
3. Insert the suction hose into the fuel tank

**NOTE:** Tanks or barrels should be anchored to prevent tipping in both the full and empty conditions.

4. Connect the battery clips power cord to a suitable battery which is capable of delivering the necessary voltage and current (see the Technical Data, back page of this manual)

- a) Attach the RED clip to the positive (+) battery terminal.
- b) Attach the BLACK clip to the negative (-) battery terminal or to the vehicle frame.

**NOTE:** It is recommended that if a different suction hose is to be used other than the one supplied, it should be a minimum of 1”(25mm) I/D.

**ONLY USE THIS PUMP WITH DIESEL, BIO-DIESEL, KEROSENE & LOW VISCOSITY LUBRICANTS**, failure to do so may cause personal injury or damage the pump which voids pump warranty. The motor has IP44/IP54 protection but is NOT an explosion proof type motor.

## **OPERATION**

**NOTE:** Avoid sparks that could cause a fire:

DO NOT use a patch cord to extend the power cables.

DO NOT let the pump run dry or run in by-pass mode for more than 2 minutes or damage may occur.

1. Before use, wipe off any dirt or moisture that may have accumulated on the nozzle or hoses.
2. Insert nozzle into the container to be filled. Insert suction hose (if applicable) into the diesel storage tank.
3. Switch the motor on.
4. Operate the nozzle lever to dispense fluid.
5. When the desired amount of fluid has been dispensed, release nozzle lever to stop flow.
6. Immediately switch motor off.
7. Nozzle and hoses should be kept clean and dry when not in use.

## **NOTE:**

If the pump fails to prime due to an airlock.

1. Remove the automatic nozzle
2. Turn on the pump to prime
3. Re-attach the automatic nozzle

## **MAINTENANCE**

### **Important:**

Do not modify any part of the unit or any warranty on the product will be automatically void.

1. Inspect and clean the basket strainer located in the pump regularly.

2. Always clean the battery terminals and clips before use to ensure a good connection.
3. Always relieve the line pressure by opening the nozzle, draining hose. Disconnect power before starting any pump maintenance
4. Hoses should be inspected regularly. (Replace if found to be cracked or worn)
5. The rotor and vanes will eventually wear. They should be replaced if pump performance degrades. (refer to trouble shooting guide)

## TROUBLE SHOOTING GUIDE

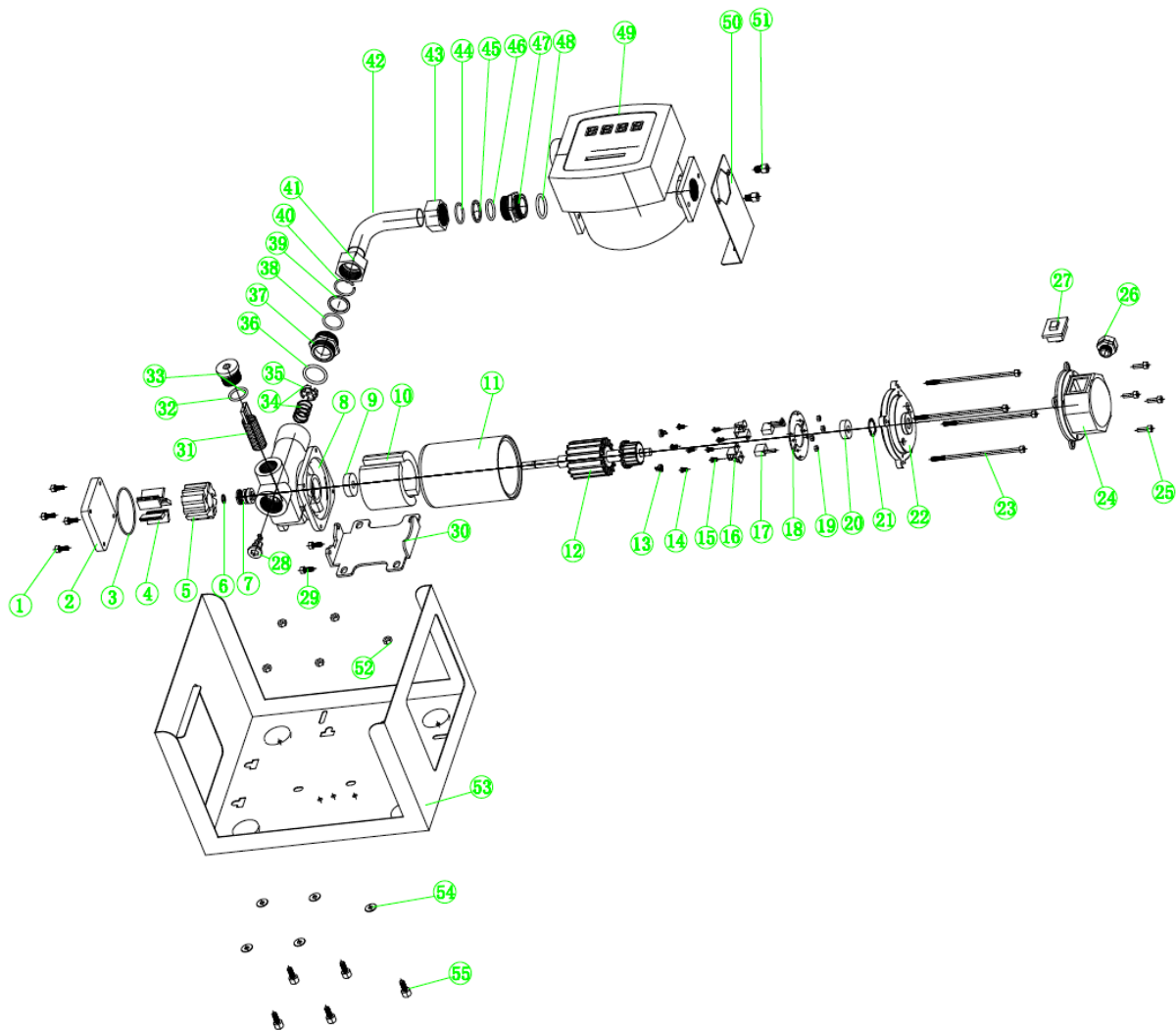
PROBLEM	CAUSE	SOLUTION
Pump fails to start	<ol style="list-style-type: none"> <li>1) Suction hose/tube has a</li> <li>2) Outlet is blocked</li> <li>3) Vanes sticking</li> <li>4) Excessive vane or rotor wear</li> <li>5) Leak from front o’ring</li> </ol>	<ol style="list-style-type: none"> <li>1) Clear blockage from suction hose/tube</li> <li>2) Check outlet hose and nozzle for blockage and correct operation</li> <li>3) Check vanes are sliding freely in the slots (remove burrs or replace vanes if required)</li> <li>4) Replace rotor and/or vanes</li> <li>5) Check o’ring for correct sealing, replace if required</li> </ol>
Pump vibrates but does not turn on	<ol style="list-style-type: none"> <li>1) Dirt jammed inside the pump</li> <li>2) Faulty motor</li> <li>3) Broken drive key</li> </ol>	<ol style="list-style-type: none"> <li>1) Clean pump chamber</li> <li>2) Replace pump</li> <li>3) Replace drive key</li> </ol>
Low Flow	<ol style="list-style-type: none"> <li>1) Blocked strainer</li> <li>2) Restriction on the inlet or outlet</li> <li>3) Excessive rotor or vane wear</li> <li>4) Low fluid level in tank</li> </ol>	<ol style="list-style-type: none"> <li>1) Clean or replace strainer</li> <li>2) Incorrect size hoses used on inlet or outlet</li> <li>3) Replace worn or damaged components</li> <li>4) Fill tank</li> </ol>
Motor Overheating	<ol style="list-style-type: none"> <li>1) Fluid too thick (viscous)</li> <li>2) Motor running longer than 30 minutes</li> <li>3) Blocked suction hose</li> <li>4) Blocked strainer</li> </ol>	<ol style="list-style-type: none"> <li>1) Fluid to be no thicker than Diesel</li> <li>2) Pump must only run for 30 minutes before cooling</li> <li>3) Clean blockage from suction hose</li> <li>4) Clean strainer</li> </ol>

Motor not turning on	<ul style="list-style-type: none"> <li>1) Poor electrical connection</li> <li>2) Battery low or faulty</li> <li>3) Blown or faulty fuse</li> <li>4) Faulty switch</li> </ul>	<ul style="list-style-type: none"> <li>1) Clean terminals and battery clamps</li> <li>2) Check battery</li> <li>3) Check pump and/or replace fuse</li> <li>4) Replace switch</li> </ul>
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## SPECIFICATIONS

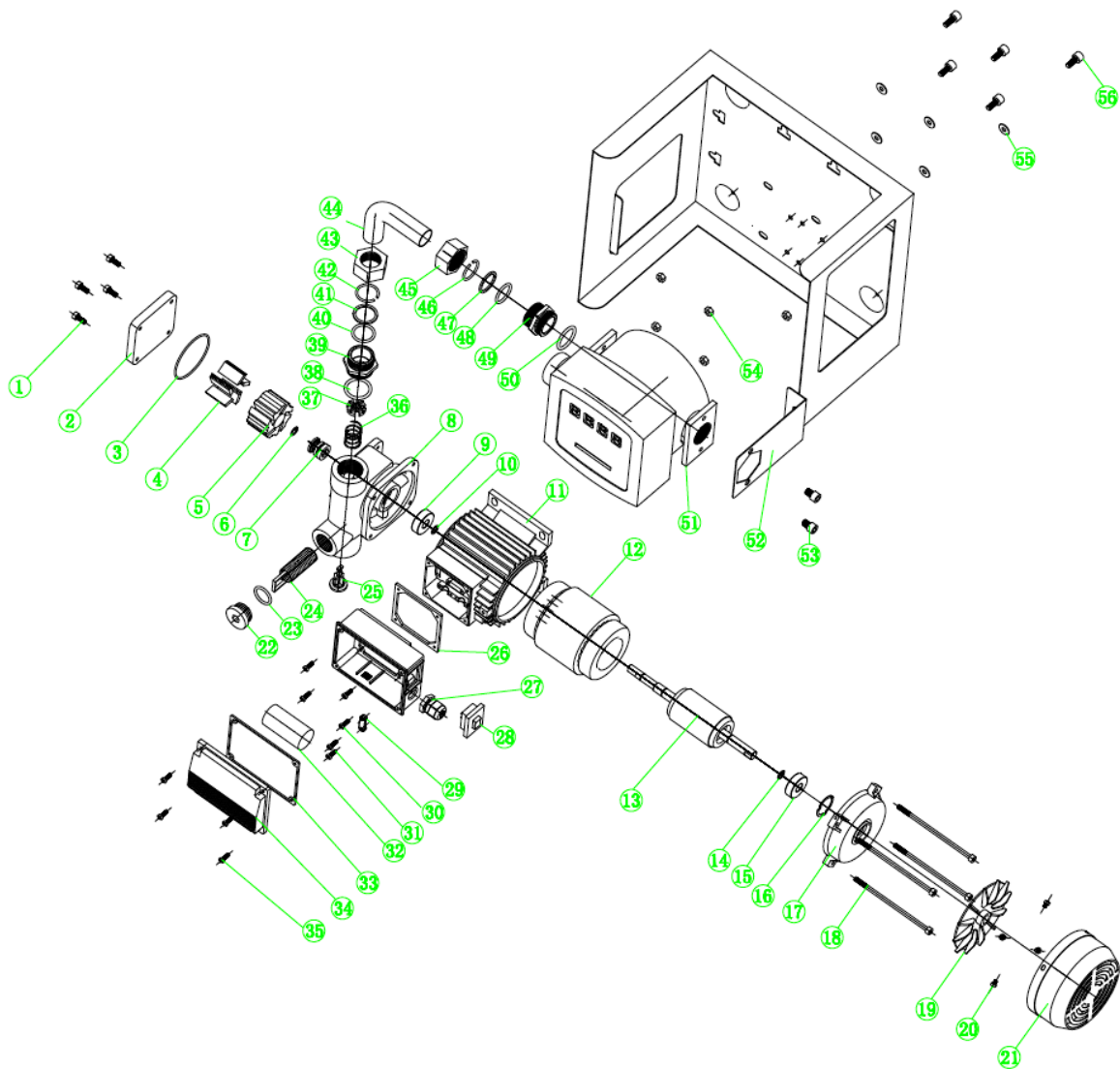
	<b>CYB150</b>	<b>CYB150T</b>	<b>YY-T80DC</b>	<b>YY-T80AC</b>
Power	150W	150W	550W	550W
Max Flow	40LPM	40LPM	75LPM	75LPM
Max Head	10m	10m	12m	15m
Max Suction Depth	2m	2m	3m	3m
Voltage	12V	12V	12V	240V
Maximum Current	15A	15A	35A	2.5A
Duty cycle	30min	30min	30min	30min
Fuse	no	no	no	yes
Inlet / Outlet Dimensions	3/4"-3/4"	3/4"-1"	1"-1"	1"-1"
Motor protection rating	IP44	IP44	IP54	IP54

# YY-T80DC DIAGRAM



1.Screws	2.Pump Cover	3.O-Ring	4.Impeller Blade	5.Impeller
6.Snap Ring	7.Mechanical Seal	8.Pump Body	9.Bearing	10.Magnetic Steel
11.Motor Housing	12.Motor Rotor	13.Screws	14.Screws	15.Screws
16.Carbon Brush Holder	17.Carbon Brush	18.Insulation Board	19.Nuts	20.Bearing
21.Wave Washer	22.Rear Shield	23.Bolts	24.Terminal Box	25.Screws
26.Nut	27.ON/OFF Switch	28.Bypass-Valve	29.Screws	30.Pump Base
31.Fuel Filter	32.O-Ring	33.Nut	34.Spring	35.Spring Stop
36.Washer	37.Brass Pump Connector	38.O-Ring	39.Washer	40.Locking Washer
41.Pipe Nut	42.Elbow Pipe	43.Pipe Nut	44.Locking Washer	45.Washer
46.O-Ring	47.Brass Meter Connector	48.O-Ring	49.Fuel Meter	50.Meter Holder
51.Screws	52.Nuts	53.Pump Base Frame	54.Washers	55.Screws

# YY-T80AC DIAGRAM



1.Screws	2.Pump Cover	3.O-Ring	4.Impeller Blade	5.Impeller
6.Snap Ring	7.Mechanical Seal	8.Pump Body	9.Bearing	10.Snap Ring
11.Motor Housing	12.Motor Stator	13.Motor Rotor	14.Snap Ring	15.Bearing
16.Wave Washer	17.Rear Shield	18.Bolts	19.Cooling Fan	20.Screws
21.Fan Cover	22.Screw	23.O-Ring	24.Fuel Filter	25.Bypass-Valve
26.Shock Pad	27.Cable Gland	28.ON/OFF Switch	29.Cable Clip	30.Screws
31.Screws	32.Capacitor	33.Shock Pad	34.Terminal Box	35.Screws
36.Spring	37.Spring Stop	38.O-Ring	39.Brass Pump Connector	40.O-Ring
41.Washer	42.Locking Washer	43.Pipe Nut	44.Elbow pipe	45.Pipe Nut
46.Locking Washer	47.Washer	48.O-Ring	49.Brass Meter Connector	50.O-Ring
51.Fuel Meter	52.Pump Base Frame	53.Screws	54.Nuts	55.Washers