

### Model 37202-SERIES



#### INSTALLATION

#### MOUNTING

Mount upright in a dry location (above highest bilge water level) on a solid surface. Mounting screws should be tightened only enough to slightly compress grommets. Overtightened screws will reduce cushioning effect of mounts and may cause excessive noise.

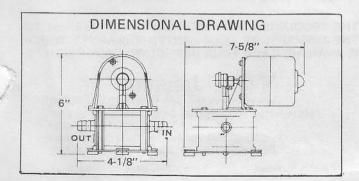
#### PLUMBING

For intake and discharge, use 3/4" I D non-collapsible hose. Keep intake and discharge lines free of kinks and restrictions. To protect pump from debris, install the 3/4" in-line strainer (PAR Model 36200-0000) in the intake line from the bilge. Use a 3/4" thru-hull fitting for discharge located well above the waterling at all angles of heel.

#### WIRING

Wire pump in a circuit independent of all other electrical fixtures. Use stranded copper wire. Install fuse in positive circuit. See table for recommended wire and fuse size. See diagram for wiring connections. Use a 10 amp-rated switch (PAR 3-way switch Model 44960-0001).

After installation, it is recommended that voltage be checked at the motor terminals with motor operating under full load. Be sure measured voltage is not less than 11 volts on a 12 volt system with a fully charged battery.



## **ELECTRIC BILGE PUMPS**FEATURES

- Pumpgard Supplied With Pump
- · Self-Priming
- Diaphragm Design Allows Dry Running
- Built-in Hydraulic Pulsation Dampener
- Corrosion Resistant Materials Throughout for Sea Water Service
- Meets USCG Electrical Regulation Title 33, Chapter I, Section 183.410
- BIA Type Accepted

#### **SPECIFICATIONS**

Open Flow: 4.5 GPM Vert. Dry Suction Lift: 7 feet

Ports: 3/4" Slip-on Hose Weight: 5.5 Lbs (2,5 kgs)

#### STANDARD MODELS

Model	Voltage	Nominal Current	Fuse Size	
			Slow Blow	Normal
37202-0000	12 Vdc	7.5 AMP	8 AMP	10 AMP
37202-0010	24 Vdc	6.5 AMP	7 AMP	10 AMP

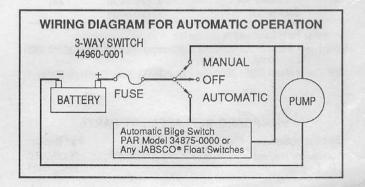
#### MAINTENANCE

LUBRICATION: Check connecting rod bearing annually and add chassis lube as needed. No other lubrication of the pump is required.

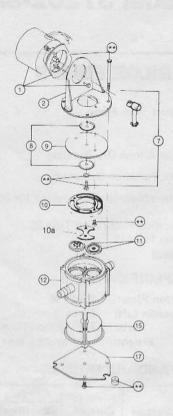
WINTER STORAGE: When possible, it is preferred that the complete pump be removed and stored in a warm dry place. If this is not possible, the pump must be completely drained, hoses removed and pump run until all water is expelled.

#### WIRING TABLE

Wire Length Between Battery and Motor	Wire Gauge
1 - 25 feet	12 AWG
25 - 50 feet	10 AWG



#### **EXPLODED VIEW**



\*\*Indicates items included in Hardware Kit (Key 21).

# PARTS LIST 37201/37202-Series

KEY	DESCRIPTION	PART NUMBER	QTY
1	Motor Kit 12 volt dc	30201-0000	1
1	Motor Kit 24 volt dc	30200-0040	1
2	Motor Mount	35797-0000	1
7	Connecting Rod Kit	30040-0000*	1
8	Diaphragm Plate	35688-0000	2
9	Diaphragm	37174-0000*	1
10	Retainer	35788-0000	1
10a	Valve Retaining Plate	35816-0000	1
11	Valve Set (Inlet & Outlet)	30005-0000*	1 Set
12	Base	35795-0000	1
15	Pulsation Dampener	37179-0000*	- 1
17	Bottom Plate	35798-0000	1
	Hardware Kit	37168-0000	1 Set
	Service Kit	37182-0000	. 500

\*Indicates Parts Contained in Service Kit.

NOTE 1—For Model 37201-0000 Use Replacement Motor Number 30202-0000 (12 Volt Only).

NOTE 2—For Model 37201-0000 Use 2 Each 35983-0000 Diaphragm Plates.

#### PUMPGARD REPLACEMENT PARTS

Part Description	Part Number
Screen Replacement	36139-0000
0 -Ring Seal	36403-0000

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#### SERVICE

#### TROUBLE SHOOTING

THOODEL SHOOTING	
Problems	Causes
Loss of suction to pump.	<ul> <li>Air leak in suction line.</li> <li>Bilge pickup not submerged.</li> <li>Intake hose kinked or plugged.</li> <li>Fouled intake or discharge valve.</li> <li>Ruptured diaphragm.</li> </ul>
Rough or noisy operation.	<ul> <li>Intake or discharge hose kinked or plugged.</li> <li>Pump not mounted firmly.</li> <li>Loosened eccentric set screw or worn connecting rod bearing.</li> <li>Ruptured or collapsed pulsation</li> </ul>

#### VALVE REPLACEMENT

1. Turn off power to pump. Remove four tie down bolts.

dampener.

- 2. Expose valves by lifting motor mount and the attached diaphragm assembly from pump base.
- 3. Remove and clean or replace valves.
- Install valves, making sure rubber flapper is UP on intake and DOWN on discharge. Replace valve retaining plate.
- 5. Replace motor-mount-diaphragm assembly and fasten evenly to base with the four tie down bolts.

#### DIAPHRAGM AND CONNECTING ROD REPLACEMENT

- Turn off power to pump. Remove four motor mount tie down bolts.
- Lift motor mount and the attached diaphragm assembly from pump base.
- Remove two diaphragm retainer screws and the diaphragm retainer.
- Pull connecting rod assembly and diaphragm from motor mount, then, unscrew bolt to separate diaphragm plates.
- Loosely reassemble new diaphragm, diaphragm plates, washer and diaphragm bolt onto new connecting rod assembly.
- Slide connecting rod on shaft. Ensure that eccentric is firmly seated on motor shaft and tighten set screw firmly against flat side of shaft.
- 7. Loosely reassemble diaphragm, diaphragm plates, washer and diaphragm bolt onto connecting rod. Tighten connecting rod bolt while maintaining alignment of rod bearing eccentric. NOTICE: Avoid misalignment or twisting of rod on eccentric shaft or excessive bearing wear will result.

#### PULSATION DAMPENER REPLACEMENT

- Disconnect power leads from pump and remove from mount. Remove four tie down bolts.
- Remove bottom plate screw and the bottom plate. Pull out and replace pulsation dampener; position the 3-ribbed cavity on discharge side.
- 3. Replace bottom plate and screw. Tighten evenly to base with the four tie down bolts.
- 4. Reinstall pump and reconnect power leads.

THE PRODUCTS DESCRIBED HEREIN ARE SUBJECT TO THE JABSCO® ONE YEAR LIMITED WARRANTY, WHICH IS AVAILABLE FOR YOUR INSPECTION UPON REQUEST.

Trim Jabsco

ITT Fluid Technology Corporation

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