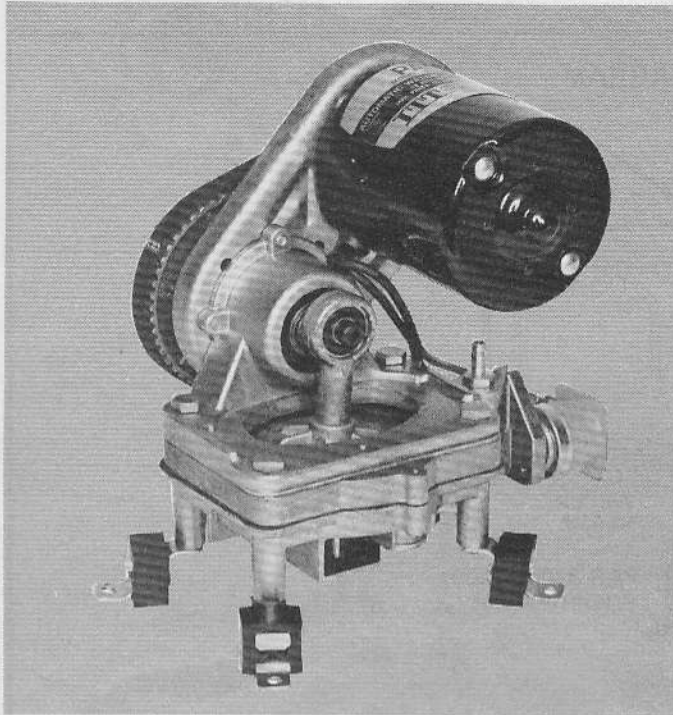


MODEL 37000-1000 Air Compressor

PRODUCT DATA



MODEL 37000-1000

FEATURES

- One of the quietest recreational vehicle water system air pumps.
- Double-safety check valve protects compressor against excessive pressures from city water hookup.
- Clean air — filtered intake.
- Permanently lubricated ball bearings.
- Oil-free diaphragm design. No piston to wear.
- Large rubber mounting pads isolate operating vibration.
- Automatically maintains pressure in water tank.

SPECIFICATIONS

Voltage:	12 VDC
Current:	8.5 Amps Max
Fuse:	3AG "Slo-Blo" 10 Amp
Air Flow:	0.7 CFM
Cut-in Pressure:	20 PSI
Cut-off Pressure:	35 PSI
Port:	3/16" Hose Barb
Approval:	IAMPO approved for water systems
Weight:	Approx. 8 lbs.

APPLICATIONS

Pressurizes "closed" water systems in any size recreational vehicle or boat. When pressure in the tank drops to a low limit, the compressor automatically recharges the system. Use only with tanks specifically designed for pressurized water systems. Ideal for inflating air mattresses, inflatable boats, air springs, emergency inflation of vehicle tires, or wherever compressed air is needed.

INSTALLATION

MOUNTING

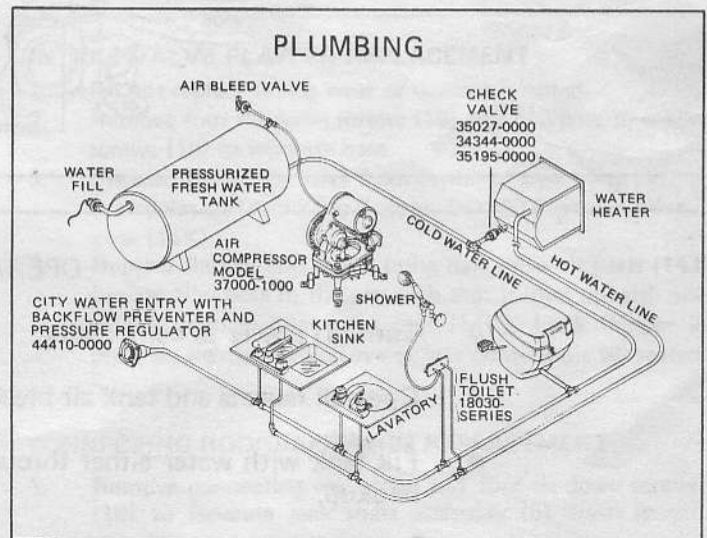
For quiet operation and good vibration dampening, mount compressor upright on a firm floor. Locate in a dry, clean area.

PLUMBING

Connect compressor discharge port to water tank using air hose provided. Water tank air connection should be located on top, above normal water level, to prevent siphoning of water to compressor. Make all connections airtight.

WIRING

Compressor should be wired independently to the battery. Use stranded copper wire No. 14 AWG for a two-wire length up to fifteen feet and No. 12 AWG up to twenty five feet.



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INSTALLATION (CONT'D.)

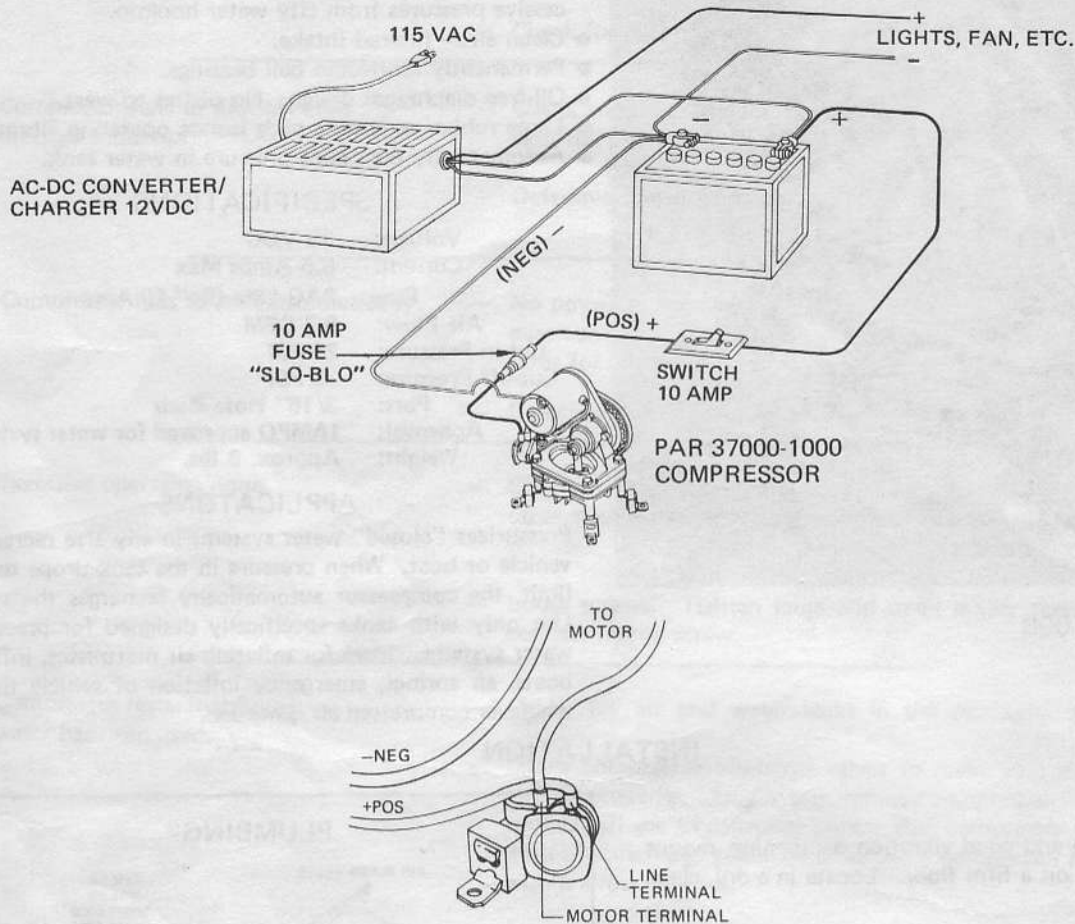
WIRING (Cont'd.)

In positive lead, install an on-off switch to keep the water system turned off when vehicle is unattended, stored, or in transit. On the same wire, close to the pump, connect a 10 amp "Slo-Blo" type fuse or 15 amp automotive type fuse to protect motor against overcurrent conditions. Larger fuse could cause motor burn-out.

ELECTRICAL TEST

After installation, it is advisable to check the electrical system to make sure that adequate voltage, 10 VDC minimum, is supplied to compressor motor at all times. Check voltage using voltmeter when compressor is in operation and all inside electrical appliances and fixtures are turned on.

WIRING DIAGRAM

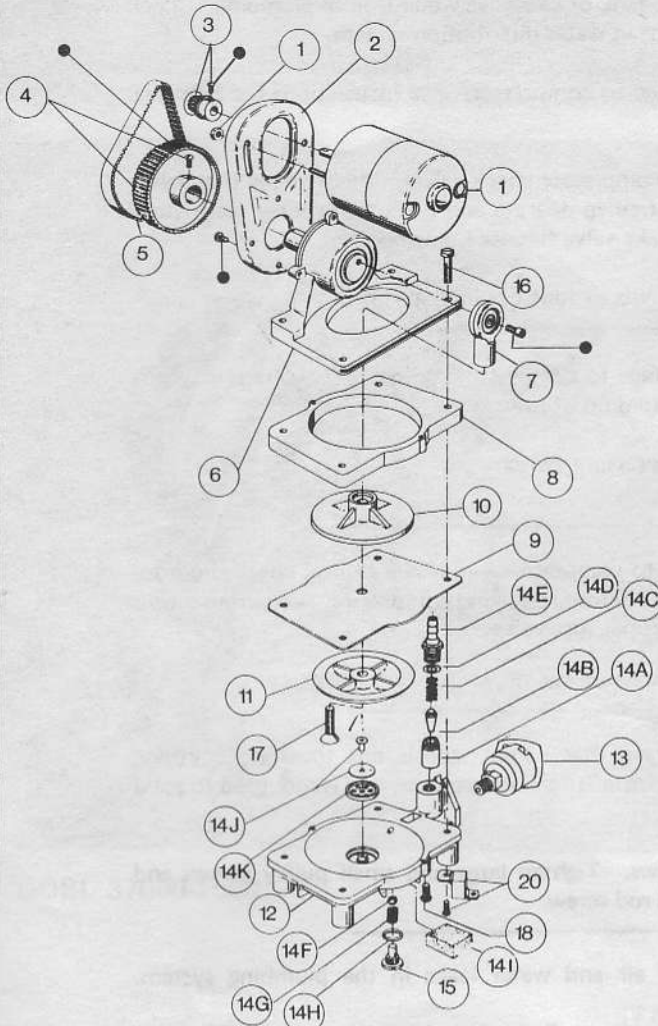


OPERATION

- Turn off power to compressor.
- Open all faucets and tank air-bleed valve.
- Fill tank with water either through fill tube or through water service hookup.
- Close tank air-bleed and faucets when water flows through (close cold water faucets first).
- Turn on power to compressor. Compressor operation is automatic. It will maintain air pressure in the tank, running only when pressure reaches a low limit.

PARTS LIST

EXPLODED VIEW



● Indicates items included in Hardware Kit (Key 21).

Key	Description	Part Number	Qty.
1	Motor Kit 12 Volt D.C.	30200-0000	1
2	Motor Mount	34628-0000	1
3	Small Pulley w/screw	37169-0000	1
4	Large Pulley w/screw	37170-0000	1
5	Belt	30021-0000	1
6	Jack Shaft Assembly	30039-0000	1
7	Connecting Rod Assembly	30038-0000	1
8	Spacer Ring	35548-0000	1
9	Diaphragm	30017-0000	1
10	Retainer	35550-0000	1
11	Backing	35549-0000	1
12	Base	35547-0000	1
13	Pressure Switch	37121-0000 - See Note 2 37121-0010 - See Note 3	1
14	Valves Service Kit Includes: A - Seat B - Poppet C - Small Spring D - Teflon Washer E - Hose Adapter F - Ball Check G - Large Spring H - O-Ring I - Filter J - Inlet valve kit (eyelet & flapper) K - Inlet valve cage	44490-0000	1 Set
15	Retaining Screw	35563-0000	1
16	Tie Down Screw	35601-0000	4
17	Diaphragm Screw	35568-0000	1
18	Screw	35684-0000	2
20	Vibration Pad Kit	37180-0000	4
21	Hardware Kit	37165-0000	1 Set

NOTE 2 - Includes Switch and Conversion Kit to Mount new Style Switch
Onto Older Style K and -0000 Pumps.

NOTE 3 - Direct Replacement Switch Only for -1000 Series Pumps.

MOTOR REPLACEMENT

1. Disconnect motor wires from pressure switch.
2. Remove two motor nuts and slide motor off mounting plate.
3. Remove small pulley from shaft and install on replacement motor.
4. Replace motor onto mounting plate. Be sure to adjust belt tension before tightening nuts. Proper adjustment: belt can be depressed 1/4" half-way between pulleys.
5. Reconnect motor wires to pressure switch.

PRESSURE SWITCH REPLACEMENT

1. Turn off power to pump and open air bleed to relieve system pressure.
2. Disconnect wires from pressure switch.
3. Unscrew switch from base.
4. Thread new switch and washer into pump base, with metallic side of washer facing switch. Tighten securely.
5. Rewire according to wiring diagram.

DISCHARGE VALVE(S) REPLACEMENT

There are two discharge check valves in the compressor. To service, use Kit No. 44490-0000.

- Remove and replace Keys 14A thru 14E in order shown.
 - Remove and replace Keys 14F thru 14H in order shown.
- (Refer to Exploded View and Parts List)

INTAKE VALVE FLAPPER REPLACEMENT

1. Do not replace unless wear or damage is noted.
2. Remove four tie-down screws (16) and two base-to-spacer screws (18) to separate base.
3. Disassemble intake valve from center of base by prying out eyelet and removing flapper. DO NOT remove valve cage (14K).
4. Replace flapper and eyelet using new valve kit parts (14J). Locate tiny hole in flapper such that it lines up with one of the holes in inlet valve cage (14K). Lock flapper in place by lightly tapping eyelet into center hole till seated.

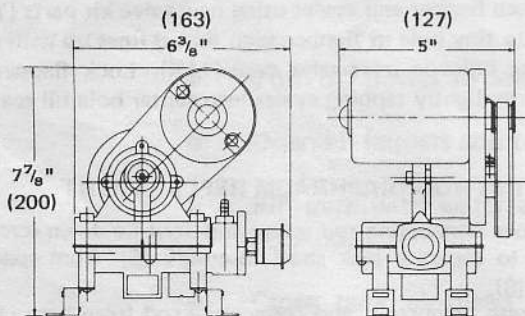
CONNECTING ROD/DIAPHRAGM REPLACEMENT

1. Remove connecting rod screw and four tie-down screws (16) to separate jack shaft assembly (6) from spacer ring (8).
2. Separate diaphragm and connecting rod from base (12) by removing two screws (18).
3. Remove diaphragm screw (17) to separate diaphragm and connecting rod.
4. Replace diaphragm and connecting rod. During reassembly, check that connecting rod is properly oriented: screw-sleeve extension is against jack shaft and no twisting stress is placed on diaphragm.

TROUBLE SHOOTING

<u>Problem</u>	<u>What to Check</u>
Compressor fails to build up pressure.	<ul style="list-style-type: none"> — Air leak in tank or excessive water leak in plumbing. Check connections in water distribution system. — Low voltage to compressor. See instructions for electrical test. — Defective compressor check valves. Check to see that valves are clean, free to operate and no cuts in rubber seals (small hole in intake valve flapper is normal). — Check for cuts or ruptures in diaphragm.
Compressor fails to shut-off after pressure build up.	<ul style="list-style-type: none"> — Check voltage to compressor motor. Low voltage may prevent full build up of pressure. — Defective pressure switch.
Compressor fails to start automatically.	<ul style="list-style-type: none"> — No power to compressor. If fuse is blown, check cause for over-current before restarting compressor. See wiring instructions for proper fuse value. — Defective pressure switch.
Excessive operating noise.	<ul style="list-style-type: none"> — Check to see that compressor is not touching anything other than installation connections, and is mounted to solid surface. — Loose screws. Tighten large and small pulley screws and connecting rod screw.
Compressor restarts although no water has been used.	<ul style="list-style-type: none"> — Check for air and water leaks in the plumbing system. — Check compressor discharge valves to make sure they are sealing properly. To do this, remove compressor air hose and seal off the air discharge port. Run compressor until it shuts off. Discharge valves are defective if compressor restarts within a few minutes.

DIMENSIONAL DRAWING



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