



RECHARGEABLE BATTERY or AIR OPERATED DRUM PUMPS

OPERATION AND
SERVICE GUIDE
O-178B
JUNE 1990

MODEL	PRICE CODE NO.
PPB-27	55-7158
PPB-36	55-7159
PPB-48	55-7160

Refer to Parts List P-2650.

DANGER

Do not use this equipment for pumping flammables or combustibles. Example: Anything that burns such as diesel fuel, gasoline, kerosene, naphtha, acetone, MEK, toluene and many more. Serious injury or death is possible.

SAFETY PRECAUTIONS BEFORE STARTING PUMP

1. Read operating instructions and instructions supplied with chemicals to be used.
2. Refer to Chemical Resistance Data Chart for compatibility of materials in pump with solution to be used.
3. Note temperature and pressure limitations.
4. Personnel operating pumps should always wear suitable protective clothing; face mask or goggles, apron or gloves.
5. Ensure that all fittings and connections are properly tightened and pump is properly supported.
6. Always place pump in liquid before starting.

BEFORE CHANGING APPLICATION OR PERFORMING MAINTENANCE

1. Wear protective clothing as described in item 4 above.
2. Flush pump thoroughly with neutralizing solution to prevent possible harm to personnel.
3. Verify compatibility of materials as stated in item 2 above.

DURING OPERATION

1. Never run dry.
2. Never use in pressurized containers.
3. Never use with liquids containing solids that can damage internals (i.e.: metal chips) without optional strainer.

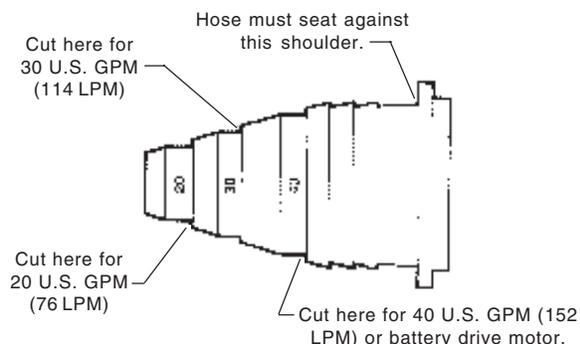
AFTER OPERATION

1. Always flush unit with water after each use.
2. Always store unit upright away from corrosive liquids and vapors.

MISCELLANEOUS FLOW SELECTION

A barbed hose adapter is supplied with each pump and is sized to give approximately 10 U.S. GPM. However, the marked adapter may be cut to provide flows of 20, 30 or 40 U.S. GPM. (See drawing below.)

NOTE: These flows are relative only when using optional air motor.



HOSE INSTALLATION

Push barbed fitting into hose until hose seats against shoulder of barbed fitting. Coat I.D. of discharge nut with petroleum jelly. Slip discharge nut over hose. Using a pull-twist motion, pull nut over the hose fitting until at least 2 threads show. Screw hose-fitting nut assembly very tightly onto pump discharge.

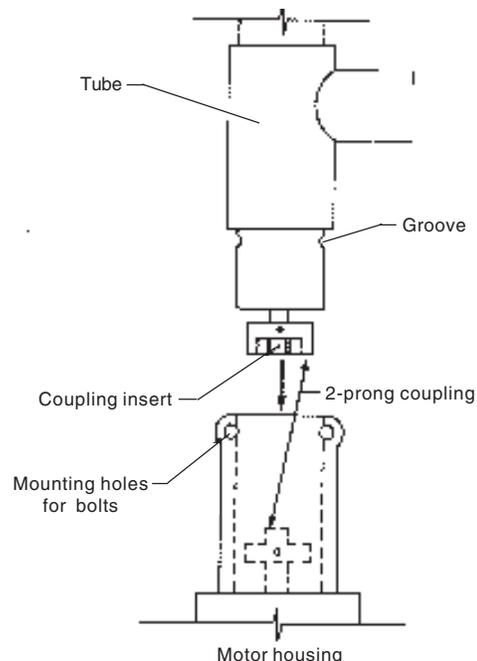
CAUTION: Make sure nut is tight to avoid leaks (no more than 2 or

3 threads should be visible).

MODEL AIR (D) MOTOR - See Operating Instruction O-260. Use 50-100 PSI filtered and lubricated air. SAE 10 oil is recommended for lubrication.

MOTOR INSTALLATION - AIR (D) or OPB

1. Insure no obstructions on the coupling of either motor or pump.
2. Position couplings for proper alignment.
3. Slide pump down into motor mount until couplings mate and pump is seated properly.
4. Position motor so mounting holes line up with corresponding grooves on pump.
5. Install 2 socket head screws (with 5/32 allen wrench) and nuts in mounting holes, and tighten securely.
6. Check to insure that the motor is secured to the pump before operating. If not, repeat steps 1-5. Reference illustration only - Note: Shown upside down.



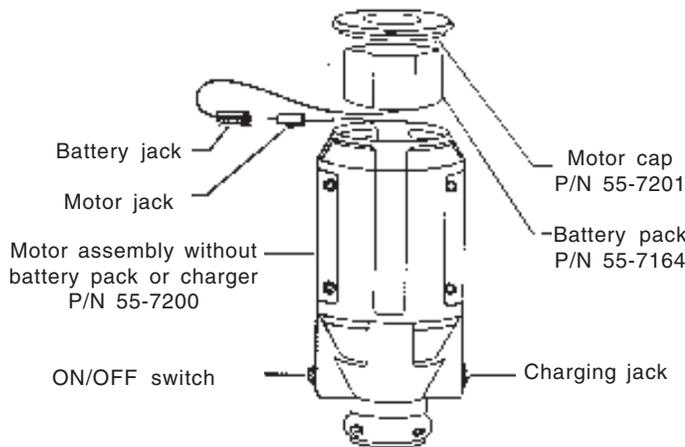
BATTERY PACK

CHARGING BATTERY PACK

1. Battery pack must be charged before first time use. (About 14 hours for maximum charge.)
2. Connect battery pack to the charger and plug the charger into a 120 VAC outlet.
3. Maximum performance achieved after 3-5 full charge/discharge cycles.
4. Battery pack should be completely discharged on a regular basis before recharging. This will maintain battery long charge life of 15-20 minutes.

BATTERY PACK INSTALLATION TO OPB MOTOR

1. Remove motor cap by using a screwdriver or coin in slot at edge of cap and snap off.
2. Connect motor and battery pack jacks and insert pack into motor housing, being careful not to pinch wires between motor and pack.
3. Snap lid into place.
4. Install motor on pump tube.



OPB MOTOR ASSEMBLY



BATTERY CHARGER
110V P/N 55-7165
220V/50Hz 55-7165-50

CHARGING MOTOR ASSEMBLY

Simply connect charger to motor and plug charger into a 120 VAC (or 220 VAC/50 Hz)

OPERATION

1. OPB motors pump liquids up to 100 cps and 1.6 specific gravity. Operation above these values will shorten battery pack life.
2. Cut barbed hose adapter to 40 U.S. GPM (152 LPM).

POST OPERATION

Remove pump/motor from drum, flush tube, and store vertically away from corrosive liquids and vapors and recharge. For longer pump life and to guard against breakage, use optional wall bracket. (Price Code No. 55-0265)

IMPELLER REPAIR KIT

PART NO. 55-7199

TO INSURE PROPER OPERATION OF YOUR PUMP, INSTALL ALL PARTS INCLUDED IN THE KIT:

DESCRIPTION	PART NO.
Impeller housing cover	55-7182
Impeller assembly	55-7181
Impeller housing	55-7180
"O"-ring	55-7194

DISASSEMBLY

1. Unscrew housing cover #1 from impeller housing #3 (L.H. thread). Insert round end of allen wrench tool #7 (supplied with pump) or a #43 drill bit into shaft hole and unscrew impeller #2 (R.H. thread).

CAUTION: Do not grip shaft with sharp metal objects in bearing areas.

2. Unscrew impeller housing #3 from intake tube #6 (L.H. thread). Remove bottom half of inner tube #5 from impeller housing by using a pull-twist motion. Remove "O"-ring #4 from inner bore of impeller housing.
3. Discard used parts #1, #2, #3, #4.

ASSEMBLY

1. Install "O"-ring #4 into the groove in the inner tube bore of impeller housing #3. Using a push-twist motion, insert the end of inner tube #5 with bearing into impeller housing #3 until it bottoms out.
2. Slide inner tube #5 and impeller housing #3 over shaft and push down to engage threads. Screw into intake tube #6 (L.H. thread).
3. Insert round end of allen wrench tool in shaft hole and screw impeller #2 onto shaft (R.H. thread) and tighten.
4. Screw housing cover #1 onto impeller housing #3 (L.H. thread).



Refer to Parts List PP-2650.