Please read and save this Repair Parts Manual. Read this manual and the General Operating Instructions carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. The Safety Instructions are contained in the General Operating Instructions. Failure to comply with the safety instructions accompanying this product could result in personal injury and/or property damage! Retain instructions for future reference.

2-Inch Trash Pedestal Pumps

Refer to form 1808-635-00 for General Operating and Safety Instructions.

Description

This self-priming (to 20 ft. lift) centrifugal pump includes a clog resistant, open impeller capable of handling solids as large as 1" diameter (up to 25% by volume). A built-in check valve assists in priming and a mechanical seal prevents leakage. All seals are Buna N. Handles liquids from 40° to 180° F (4° to 82° C). For use with nonflammable liquids compatible with pump component materials.

Specifications

Suction inlet 2" NPT
Discharge outlet 2" NPT
Dimensions $15^7/_8$ "L x $9^3/_8$ "W x $9^7/_8$ "H
Weight
Basic construction

Maintenance

AWARNING Make certain that unit is disconnected from power source before attempting to service or remove any component!

CLEANING

This unit has been designed with a removable volute enabling pump to be cleaned or unclogged with ease. Remove casing and volute as described in steps 1 and 2 under MECHANICAL SEAL REPLACEMENT. Remove any debris found inside unit, reassemble as described in steps 16 and 17 under MECHANICAL SEAL REPLACEMENT.

NOTE: Depending on application it may be necessary to remove suction and discharge hoses.

MECHANICAL SEAL REPLACEMENT

Refer to Figures 1 and 2.

IMPORTANT: Always replace seal seat (Ref. No. 12), seal head (Ref. No. 13),

and shaft sleeve (Ref. No. 14) to insure proper mating of mechanical seal components!

- 1. Unthread cap screws (Ref. No. 22) and remove casing (Ref. No. 20) and o-ring (Ref. No. 11) from adapter (Ref. No. 10).
- Unthread round head screws (Ref. No. 17) and remove volute (Ref. No. 18) from adapter.
- 3. Unscrew impeller (Ref. No. 9) from pump shaft (Ref. No. 5). Remove impeller shim(s) (Ref. No. 15), shaft sleeve, and seal head from pump shaft.
- 4. Unthread hex flange screw (Ref. Nos. 7 & 8) and remove adapter from pedestal mounting face.
- 5. Push seal seat from adapter recess with a screwdriver.
- 6. Clean adapter recess before inserting a new seal seat.
- 7. Carefully wipe polished surface of new seal seat with a clean cloth.
- 8. Wet the outside of rubber portion of seal seat with a light coating of soapy water.
- 9. Press new seal seat squarely into

cavity in adapter. Use finger pressure only to avoid scratching seal seat. (This is a lapped surface and must be handled very carefully.)

- 10. After seal seat is in place, insure that it is clean and has not been marred.
- 11. Using a clean cloth, wipe shaft and make certain that it is perfectly clean.
- 12. Secure adapter on pedestal mounting face.

A CAUTION *Tighten hex flange screws EVENLY to avoid cocking rabbet on pedestal mounting face.*

13. Apply a light coating of soapy water to inside rubber portion of seal head and slide onto shaft sleeve. Slip shaft sleeve with seal head onto pump shaft with polished face toward seal seat.

CAUTION Do not touch or wipe face of polished surface part of seal head.

- 14. Replace any impeller shim(s) removed in disassembly.
- 15. Screw impeller back in place, tightening until it is against shaft sleeve.
- 16. Remount volute and position o-ring in place.

IMPORTANT: Always inspect o-ring. Replace when cracked or worn. Wet o-ring with soapy water for ease of assembly.

17. Remount casing.

Performance Chart

Power Req.	10'	GPM of 20'	Water at T 30'	otal Head i 40'	n Feet 50'	60'	70'	80'	Max** Head
5HP @3600RPM	155	145	134	123	110	90	65	40	92 ft.
(**) Shut-off; to convert to psi, divide by 2.31.									

2-Inch Trash Pedestal Pumps

Maintenance (Continued) **BEARING HOUSING SERVICE**

- 1. Remove front pump assembly as described under "Mechanical Seal Replacement"
- 2. Remove shaft bearing (Ref. No. 3) and shaft (Ref. No. 5) as an assembly by first removing retaining ring (Ref. No. 1). Push shaft bearing assembly out of pedestal (Ref. No. 6) by rapping on threaded end of shaft with a rawhide mallet, or block of wood and a hammer.
- 3. Ball bearings can now be removed from shaft.
- 4. If shaft bearings have been removed from shaft, replace by sliding bearing on shaft to shoulder. Replace shaft bearing assembly by sliding assembly into housing threaded end first. Push shaft bearing assembly completely in by gently tapping on keyway end of shaft with a rawhide mallet. Replace retaining ring.
- 5 Reassemble pump as described in "Mechanical Seal Replacement".

SHIM ADJUSTMENT

1. When installing a replacement

adapter (Ref. No.10), impeller (Ref. No. 16), shaft sleeve (Ref. No. 14), volute (Ref. No. 18) or casing (Ref. No. 20) it may be necessary to vary the number of impeller shims (Ref. No. 15) that will be required. This is easily done by adding one shim more than was removed and reassembling pump as described in MECHANICAL SEAL REPLACEMENT section.

NOTE: When adding or removing shims, it is best to proceed with a 0.010" increment each time. While tightening unit together turn shaft; feel for shaft seizing. If shaft begins to seize before fasteners are completely tight, disassemble pump and remove one shim and repeat assembly.

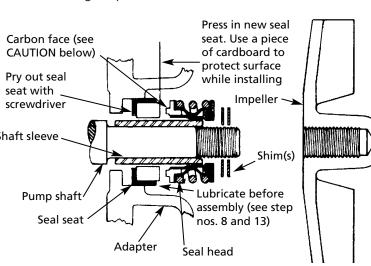
- 2. Once having added one shim more than original, ensure that volute and adapter are firmly fitted (check fasteners Ref. No. 17). When pump shaft turns freely add shims until it does strike, then remove a 0.010" shim. This should allow proper clearance.
- 3. Proper running clearance for impeller should be as close as possible to volute without striking;

Press in new seal seat. Use a piece Carbon face (see CAUTION below) of cardboard to protect surface Pry out seal while installing seat with Impeller screwdriver Shaft sleeve Shim(s) Lubricate before Pump shaft assembly (see step Seal seat nos. 8 and 13)

Figure 2 - Mechanical Seal Replacement

maximum clearance is 1/32" (0.032").

4. Follow above procedure until proper clearance is obtained. This will ensure maximum performance.



For Repair Parts, contact dealer where pump was purchased.

Please provide following information: -Model number -Serial number (if any) -Part description and number as shown in parts list

24 Figure 1 — Repair Parts Illustration

Repair Parts List

Ref. No.	Description	Part Number	Qty.
1	Retaining ring	1695-034-00	1
2	Bearing shim set (0.005", 0.010", 0.020"; one each)	1696-008-90	1
3	Ball bearing	1695-031-00	2
4	Кеу	1517-000-00	1
5	Shaft	1695-001-00	1
6	Pedestal	1695-030-01	1
7	Fastener	*	2
8	Fastener	*	2
9	Nut	*	4
10	Adapter	2182-010-01	1
11	Casing seal	2186-000-00	1
12 & 13	Shaft seal assembly -Viton & silicon carbide	1640-166-90	1
14	Shaft sleeve	1483-000-00	1
15	Impeller shim set (0.010", 0.020", 0.030"; one each)	1658-000-90	1
16	Impeller	2182-006-01	1
17	Fastener	*	2
18	Volute	2182-002-01	1
19	Flapper valve	1609-002-00	1
20	Casing	2112-001-02	1
21	1/2" NPT pipe plug	*	2
22	Fastener	*	4
23	Washer	*	12
24	Nut	*	4

(*) Standard hardware item, available locally.

Notes
