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Specifications Information and Repair Parts Manual

5760-95 thru 576E-95

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. AMT reserves the right to discontinue any model or change specifications at any time without incurring any obligation.

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Periodic maintenance and inspection is required on all pumps to ensure proper operation. Unit must be clear of debris and sediment. Inspect for leaks and loose bolts. Failure to do so voids warranty.

# Submersible Shredder Pumps



Refer to pump manual 1808-636-00 for General Operating and Safety Instructions.

#### **DESCRIPTION**

These heavy duty centrifugal Submersible Shredder Pumps are intended for use in residential, commercial, and industrial settings. Examples include: sewage, wastewater and other general processing applications involving dirty liquids with small solids. Submersible design means low noise and no priming issues. Each unit is completely assembled and includes a self-cleaning, semi-open cast iron impeller featuring a tungsten carbide cutting tip for durability while helping to break up solids. Pumps incorporate a mechanical shaft seal with long lasting silicon carbide wear faces and feature a secondary shaft seal and oil chamber. Pumps have a 3450 RPM electric motor fitted with an unfinished power cord that requires field wiring (no controls are supplied). Motors are rated continuous duty and single phase units have automatic restart thermal overload protection. Handle liquids from 40° to 104° F (4° to 40° C). For use with non-flammable liquids compatible with pump component materials.

#### **MAINTENANCE**

#### **AWARNING**

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

#### POWER CORD REPLACEMENT

Periodically inspect power cord and replace whenever abrasion, cracking, softening or other signs of deterioration are found.

Refer to Figures 1 and 2.

- 1. Place unit on workbench in upright position. Clean dirt and rust from around wire cover (Ref. No. 7).
- 2. Remove two fasteners (Ref. No. 4) which hold cord retainer (Ref. No. 3).
- Remove fastener(s) (Ref. No. 5) at handle (Ref. No. 6) to free wire loom (Ref. No. 2).
- 4. Remove four fasteners (Ref. No. 8) which hold wire cover in place.
- 5. Carefully pry cover from unit with screwdriver.

**IMPORTANT:** Be careful to keep rust and other debris from falling into motor housing during cover removal.

 Take note of proper wire configuration, and connect new power cord (Ref. No. 1) in identical fashion.

#### **AWARNING**

If unsure about above information or wiring diagrams, consult an electrician familiar with motor wiring.

Clean sealing flanges if necessary and reassemble pump in reverse order.

#### IMPELLER INSPECTION / REPLACEMENT

If pump develops poor performance characteristics, impeller may be worn or clogged.

#### IMPELLER INSPECTION

Refer to Figure 2

- Place unit on workbench in upright position and clean rust and buildup from around pump-to-motor flange.
- 2. Remove four short fasteners (Ref. No. 15), which attach pump to motor.
- Lift motor assembly up out of pump assembly and lay on workbench in horizontal position. Rap down on pump body with soft mallet, if necessary, to separate parts.
- Inspect impeller (Ref. No. 26). If clog is found, remove debris and reassemble in reverse order. If damage to impeller is found, such as pitting, deep grooves, or breakage, proceed to next section.

#### IMPELLER REPLACEMENT

 Remove impeller fastener (Ref. No. 28) by unscrewing in counterclockwise direction

**NOTE:** To prevent motor shaft from turning, wedge a screwdriver between impeller vane and impeller fastener (see Figure 1).

- Slide off impeller washer (Ref. No. 27). Impeller is keyed to motor shaft and can now be pulled free.
- 3. Install replacement impeller and reassemble in reverse order.

#### MECHANICAL SEAL REPLACEMENT

Motor internals are protected from contact with liquid being pumped by a mechanical shaft seal and oil cavity. When seal wears out, potential motor life will be compromised. Therefore, periodic seal replacement is recommended. Time interval between replacements will depend on abrasiveness of liquid being pumped, temperature, total accumulated runtime, etc.

**IMPORTANT:** Always replace seal head (Ref. No. 18) and both seal seats (Ref. Nos. 17 & 19) at same time to ensure proper mating of components.

#### Refer to Figure 2

 Disassemble pump by following directions in both "Power Cord Replacement" and "Impeller Inspection / Replacement" sections.

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### Submersible Shredder Pumps

- With unit on its side and wire cover, pump assembly and impeller removed, lift shaft key (Ref. No. 13) from shaft/rotor (Ref. No. 12) using a pliers.
- Clean rust and buildup from unit.
- From top of unit, remove four long fasteners (Ref. No. 10), which attach lower end bell (Ref. No. 16) to motor case (Ref. No. 11).
- Rap on ears of lower end bell with a soft mallet to break it free from motor case. Next, carefully guide lower end bell along with shaft/rotor and bearing assembly out of motor case.
- Drain oil from seal cavity by removing drain screw (Ref. No. 23) and seal (Ref. No. 22) from seal plate (Ref. No. 21). Then tip components upright overtop of a catch pan until oil is drained.
- Remove three fasteners (Ref. No. 25) and pry out seal plate with screwdriver. Slinger washer (Ref. No. 24) will come free at this time.
- Use a press or gear puller to remove shaft and bearings from lower end bell. Shaft seal head will now be free.

**IMPORTANT:** Shaft seal head (with spring) has unique ends and two seal seats are different from one another also. Be sure to note size and color of each before disassembly so that new parts are installed in proper orientation.

- Remove upper seal seat (Ref. No. 17) from lower end bell by using a screwdriver or dowel to press on seal from rear. Do the same for lower seal seat (Ref. No. 19) in seal plate.
- 10. Clean seal seat cavities before inserting new seals.
- 11. Carefully wipe polished surface of new seal seats with a clean cloth.
- Wet outside of rubber portion of seal seats with a light coating of soapy water
- 13. Press each new seal seat squarely into cavity in both seal plate and lower end bell. If seal seat does not press squarely into cavity, it can be adjusted into place by pushing on it carefully with a piece of pipe or dowel. Always use a piece of cardboard between pipe and seal seat to avoid scratching seal seat. (This is a lapped surface and must be handled very carefully.)
- 14. After each seal seat is in place, be sure that it is clean and has not been
- 15. Using a clean cloth, wipe shaft and make certain that it is perfectly clean.
- 16. Carefully guide motor shaft through seal seat and use a press to seat bearing back into lower end bell.
- Apply a light coating of soapy water to inside rubber portion of seal head and slide onto shaft (be sure to start correct end first).
- Place seal plate back onto lower end bell being careful to guide shaft and avoid damage to seal seat. Secure with fasteners.
- 19. Press slinger washer back in place.
- 20. Refill cavity with oil through fill hole and reassemble in reverse order.

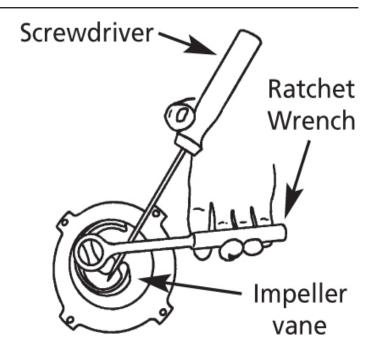


Figure 1 - Impeller Removal

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## Submersible Shredder Pumps

### For Repair Parts contact dealer where pump was purchased.

Please provide following information:

- -Model Number
- -Serial Number (if any)

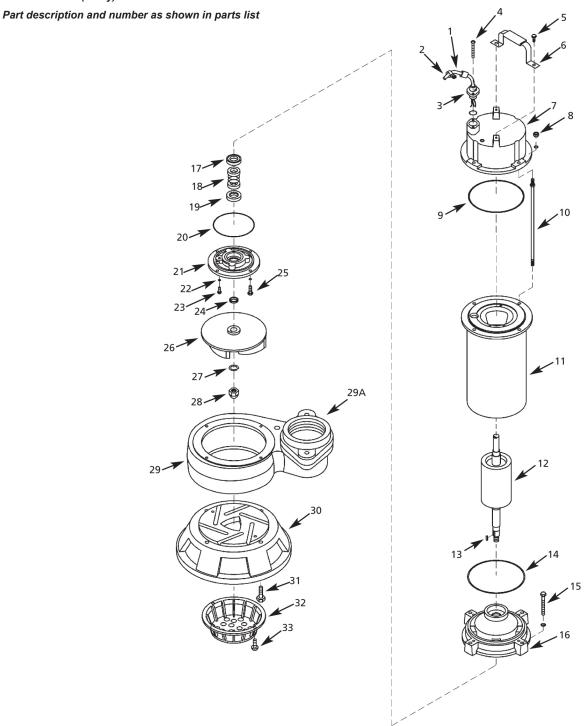


Figure 2 - Repair Parts Illustrations - 2 & 3-Inch

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Repa	nir Parts List			
		Part Number for Models		
•		2-inch - 1HP	3-inch - 2HP	
·		5760-95		
:		5761-95	5763-95	
Ref		5762-95	5764-95	:
No.	Description	576B-95	576C-95	Qty
1	Power Cord Kit - 110VAC, 1PH	5760-350-90	_	1
·	Power Cord Kit - 220VAC, 1PH	5761-350-90	5763-350-90	1
	Power Cord Kit - 220VAC, 3PH	5762-350-90	5764-350-90	1
	Power Cord Kit - 440VAC, 3PH	576B-350-90	576C-350-90	1
	(includes Ref. Nos. 1, 2, 3, and 4)	0.02 000 00	0.00 000 00	·
2	Wire Loom	Incl. w/ Ref. 1	Incl. w/ Ref. 1	1
3	Retainer	Incl. w/ Ref. 1	Incl. w/ Ref. 1	1
4	Fastener	Incl. w/ Ref. 1	Incl. w/ Ref. 1	2
5	Fastener	*	*	2
6	Handle Kit	5760-100-90	5763-100-90	1
7	Wire Cover	-	-	_
8	Fastener	*	*	4
9	Seal	Incl. w/ Ref. 35	Incl. w/ Ref. 35	1
10	Fastener	-	-	
11	Motor Case	-	-	_
12	Shaft/Rotor	-	-	_
13	Shaft Key	-	-	_
14	Seal	Incl. w/ Ref. 35	Incl. w/ Ref. 35	1
15	Fastener	*	*	4
16	Lower End Bell	-	-	-
17	Upper Seal Seat	Incl. w/ Ref. 35	Incl. w/ Ref. 35	1
18	Seal Head	Incl. w/ Ref. 35	Incl. w/ Ref. 35	1
19	Lower Seal Seat	Incl. w/ Ref. 35	Incl. w/ Ref. 35	1
20	Seal	Incl. w/ Ref. 35	Incl. w/ Ref. 35	1
21	Seal Plate	-	-	-
22	Seal	Incl. w/ Ref. 35	Incl. w/ Ref. 35	1
23	Drain Plug	*	*	1
24	Slinger Washer	Incl. w/ Ref. 35	Incl. w/ Ref. 35	1
25	Fastener	*	*	4
26	Impeller	Incl. w/ Ref. 34	Incl. w/ Ref. 34	1
27	Impeller Washer	Incl. w/ Ref. 34	Incl. w/ Ref. 34	1
28	Impeller Fastener	Incl. w/ Ref. 34	Incl. w/ Ref. 34	1
29	Casing Kit	5760-001-95	5763-001-95	1
30	Base	Incl. w/ Ref. 34	Incl. w/ Ref. 34	1
31	Fastener	Incl. w/ Ref. 34	Incl. w/ Ref. 34	4
32	Strainer Kit	5760-170-90	5763-170-90	1
33	Fastener	*	*	3
34	Wear Plate & Impeller Kit	5760-010-90	5763-010-90	1
	(includes Ref. Nos. 26, 27, 28, 30, and 31)			
35	Seal Kit (not shown)	5760-300-90	5763-300-90	1
	(includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)			
36	Start Capacitor - 110VAC, 1PH	5760-351-00	-	1
	Start Capacitor - 220VAC, 1PH	5761-351-00	5763-351-00	1
37	Run Capacitor - 110VAC, 1PH	-	-	1
	Run Capacitor - 220VAC, 1PH	-	5761-351-00	1

Standard Hardware Item, Available Locally