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 insure 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 (see size chart below). 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.

- Place unit on workbench in upright position. Clean dirt and rust from around wire cover (Ref. No. 7).
- 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).
- 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 2).

- Slide off impeller washer (Ref. No. 27). Impeller is keyed to motor shaft and can now be pulled free.
- 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 insure proper mating of components.

Refer to Figure 2

- Disassemble pump by following directions in both "Power Cord Replacement" and "Impeller Inspection / Replacement" sections.
- 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.
- 3. 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).

### Submersible Shredder Pumps

- Rap on ears of lower end bell with a soft mallet to break it free from motor case. Then 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
- 8. 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.
- 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.)
- After each seal seat is in place, insure that it is clean and has not been marred.
- Using a clean cloth, wipe shaft and make certain that it is perfectly clean.
- 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.
- Refill cavity with oil through fill hole and reassemble in reverse order.

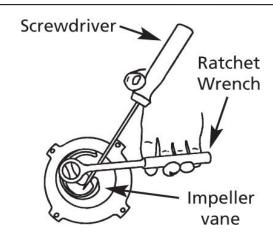


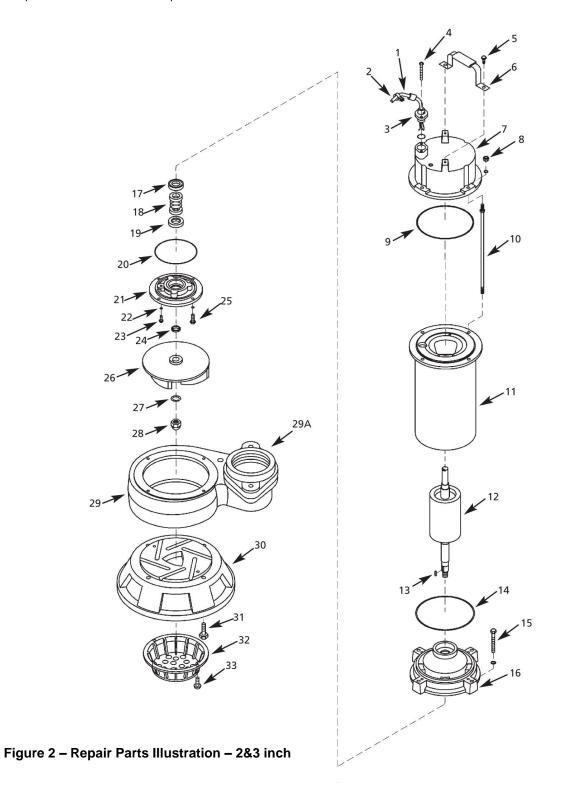
Figure 1 - Impeller Removal

## 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



### **Repair Parts List**

Ref.   Since   Since		Part Number for Models:						
Ref.   SH2A3-E1 230/1   SH3A3-E2 230/1   No.   Description				2-inch - 1HP				
No.   Description   SH2A3-E1 460/3   SH3A3-E2 460/3   Cty.								
Power Cord Kit								
-230VAC, 1PH					SH3A3-E2 460/3			
Gincludes Ref. Nos. 1, 2, 3, and 4	1	Power Cord Kit	•		-			
Cincludes Ref. Nos. 1, 2, 3, and 4    2   Wire Loom			•			-		
Note				576B-350-90	576C-350-90	1		
Retainer		•	. 1, 2, 3, and 4)					
4         Fastener         *         *         2           5         Fastener         *         *         2           6         Handle Kit         5760-100-90         5763-100-90         1           7         Wire Cover         -         -         -           8         Fastener         *         4         4           9         Seal         Incl. w/ Ref. 35         Incl. w/ Ref. 35         1           10         Fastener         -         -         -         -           12         Shaft/Rotor         -         -         -         -         -           13         Shaft Key         - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>=</td>						=		
5         Fastener         *         2           6         Handle Kit         5760-100-90         5763-100-90         1           7         Wire Cover         -         -         -         -         -           8         Fastener         *         *         4         4           9         Seal         Incl. w/ Ref. 35         Incl. w/ Ref. 35         1           10         Fastener         -         -         -         -           11         Motor Case         -						-		
6 Handle Kit 5760-100-90 5763-100-90 1 7 Wire Cover				Incl. w/ Ref. 1	Incl. w/ Ref. 1			
7 Wire Cover	5	Fastener		*	*	2		
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         4           16         Lower End Bell         -         -         -         -         -           17         Upper Seal Seat         Incl. w/ Ref. 35         Incl. w/ Ref. 35         1         1           18         Seal Head         Incl. w/ Ref. 35         Incl. w/ Ref. 35         1         1           20         Seal Seat         Incl. w/ Ref. 35         Incl. w/ Ref. 35         1         1           20         Seal Plate         -         -         -         -         -         -         -         -         -         -         -         -         -         -		Handle Kit		5760-100-90	5763-100-90	1		
9 Seal   Incl. w/ Ref. 35   Incl. w/ Ref. 35   1  10 Fastener	7	Wire Cover		-	-	-		
Tastener	8	Fastener		*	*	4		
Motor Case	9	Seal		Incl. w/ Ref. 35	Incl. w/ Ref. 35	1		
Shaft/Rotor	10	Fastener		-	-	-		
13   Shaft Key   -   -   -   -   -   -   -   -   -	11	Motor Case		-	-	-		
14   Seal   Incl. w/ Ref. 35   Incl. w/ Ref. 35   1	12	Shaft/Rotor		-	-	-		
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       1         24       Slinger Washer       Incl. w/ Ref. 35       Incl. w/ Ref. 35       1       1       1       2       Stastener       *       4       4       1       1       1       2       1       Incl. w/ Ref. 35       Incl. w/ Ref. 35       1	13	Shaft Key		-	-	-		
16	14	Seal		Incl. w/ Ref. 35	Incl. w/ Ref. 35	1		
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           30         Base         Incl. w/ Ref. 34         Incl. w/ Ref. 34         1           31         Fastener         Incl. w/ Ref. 34	15	Fastener		*	*	4		
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           30         Base         Incl. w/ Ref. 34         Incl. w/ Ref. 34         1           31         Fastener         Incl. w/ Ref. 34         Incl. w/ Ref. 34         1           31         Fastener         Incl. w/ Ref. 34         Incl. w/ Ref. 34         1	16	Lower End Bell		-	-	-		
19   Lower Seal Seat   Incl. w/ Ref. 35   Incl. w/ Ref. 35   1	17	Upper Seal Seat		Incl. w/ Ref. 35	Incl. w/ Ref. 35	1		
Seal   Incl. w/ Ref. 35   Incl. w/ Ref. 35   1	18	Seal Head		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         1           32         Strainer Kit         5760-170-90         5763-170-90         1           33         Fastener         *         *         *         3           34         Wear Plate & Impeller Kit (incl w/ Ref. 34)         Incl. w/ Ref. 34         Incl. w/ Ref. 34	19	Lower Seal Seat		Incl. w/ Ref. 35	Incl. w/ Ref. 35	1		
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         1           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)         5760-300-90         5763-300-90         1	20	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         1           32         Strainer Kit         5760-170-90         5763-170-90         1           33         Fastener         *         *         3           34         Wear Plate & Impeller Kit         5760-100-90         5763-010-90         1           (includes Ref. Nos. 26, 27, 28, 30, and 31)         5760-300-90         5763-300-90         1           35         Start Capacitor         -115VAC, 1PH         5760-351-00         -	21	Seal Plate		-	-	-		
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         1           32         Strainer Kit         5760-170-90         5763-170-90         1           33         Fastener         *         *         3           34         Wear Plate & Impeller Kit (includes Ref. Nos. 26, 27, 28, 30, and 31)         5760-300-90         5763-300-90         1           35         Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)         5760-351-00         -         1           36         Start Capacitor         -115VAC, 1PH         5760-351-00         -         1           37	22	Seal		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 (includes Ref. Nos. 26, 27, 28, 30, and 31)         5760-300-90         5763-010-90         1           35         Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)         5760-300-90         5763-300-90         1           36         Start Capacitor (-115VAC, 1PH 5760-351-00) (5763-351-00) (1         -         1           37         Run Capacitor (-115VAC, 1PH	23	Drain Plug		*	*	1		
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 (includes Ref. Nos. 26, 27, 28, 30, and 31)         5760-300-90         5763-010-90         1           35         Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)         5760-351-00         -         1           36         Start Capacitor (-115VAC, 1PH (5760-351-00) (5763-351-00) (1         -         1           -230VAC, 1PH (5761-351-00) (5763-351-00) (1         -         1           37         Run Capacitor (-115VAC, 1PH (-11	24	Slinger Washer		Incl. w/ Ref. 35	Incl. w/ Ref. 35	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 (includes Ref. Nos. 26, 27, 28, 30, and 31)         5760-300-90         5763-010-90         1           35         Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)         5760-351-00         -         1           36         Start Capacitor (15VAC, 1PH (5760-351-00) (5763-351-00) (15	25	Fastener		*	*	4		
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 (includes Ref. Nos. 26, 27, 28, 30, and 31)         5760-300-90         5763-010-90         1           35         Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)         5760-351-00         -         1           36         Start Capacitor -115VAC, 1PH 5760-351-00         -         1         -230VAC, 1PH 5761-351-00         5763-351-00         1           37         Run Capacitor -115VAC, 1PH -         -         1         -         1	26	Impeller		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 (includes Ref. Nos. 26, 27, 28, 30, and 31)         5760-010-90         5763-010-90         1           35         Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)         5760-300-90         5763-300-90         1           36         Start Capacitor -115VAC, 1PH 5760-351-00         -         1         -         -230VAC, 1PH 5761-351-00         5763-351-00         1           37         Run Capacitor -115VAC, 1PH -         -         1         -         1	27	Impeller Washer		Incl. w/ Ref. 34	Incl. w/ Ref. 34	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 (includes Ref. Nos. 26, 27, 28, 30, and 31)         5760-010-90         5763-010-90         1           35         Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)         5760-300-90         5763-300-90         1           36         Start Capacitor -115VAC, 1PH -115VAC, 1PH 5761-351-00         -         1           -230VAC, 1PH 5761-351-00         5763-351-00         1           37         Run Capacitor -115VAC, 1PH         -         1	28	Impeller Fastener		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 (includes Ref. Nos. 26, 27, 28, 30, and 31)       5760-010-90       5763-010-90       1         35       Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)       5760-300-90       5763-300-90       1         36       Start Capacitor -115VAC, 1PH 5760-351-00       -       1         -230VAC, 1PH 5761-351-00       5763-351-00       1         37       Run Capacitor -115VAC, 1PH -       -       1	29	Casing Kit		5760-001-95	5763-001-95	1		
32         Strainer Kit         5760-170-90         5763-170-90         1           33         Fastener         *         *         3           34         Wear Plate & Impeller Kit (includes Ref. Nos. 26, 27, 28, 30, and 31)         5760-010-90         5763-010-90         1           35         Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)         5760-300-90         5763-300-90         1           36         Start Capacitor (-115VAC, 1PH) (15760-351-00) (15763-351-00)         -         1           -230VAC, 1PH (15761-351-00) (15763-351-00) (1576	30	Base		Incl. w/ Ref. 34	Incl. w/ Ref. 34	1		
32         Strainer Kit         5760-170-90         5763-170-90         1           33         Fastener         *         *         3           34         Wear Plate & Impeller Kit (includes Ref. Nos. 26, 27, 28, 30, and 31)         5760-010-90         5763-010-90         1           35         Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)         5760-300-90         5763-300-90         1           36         Start Capacitor (-115VAC, 1PH) (15760-351-00) (15763-351-00)         -         1           -230VAC, 1PH (15761-351-00) (15763-351-00) (1576	31	Fastener		Incl. w/ Ref. 34	Incl. w/ Ref. 34	4		
34     Wear Plate & Impeller Kit (includes Ref. Nos. 26, 27, 28, 30, and 31)     5760-010-90     5763-010-90     1       35     Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)     5760-300-90     5763-300-90     1       36     Start Capacitor (15VAC, 1PH) (15760-351-00) (15763-351-00)						1		
34     Wear Plate & Impeller Kit (includes Ref. Nos. 26, 27, 28, 30, and 31)     5760-010-90     5763-010-90     1       35     Seal Kit (not shown) (includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)     5760-300-90     5763-300-90     1       36     Start Capacitor (15VAC, 1PH) (15760-351-00) (15763-351-00)				*	*	3		
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     -115VAC, 1PH     5760-351-00     -     1       -230VAC, 1PH     5761-351-00     5763-351-00     1       37 Run Capacitor     -115VAC, 1PH     -     1		Wear Plate & Impeller Kit		5760-010-90	5763-010-90			
(includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)  36 Start Capacitor -115VAC, 1PH 5760-351-00 - 1 -230VAC, 1PH 5761-351-00 5763-351-00 1  37 Run Capacitor -115VAC, 1PH 1	25	,	. 20, 21, 26, 30, and 31)	E760 200 00	E762 200 00	4		
36       Start Capacitor       -115VAC, 1PH       5760-351-00       -       1         -230VAC, 1PH       5761-351-00       5763-351-00       1         37       Run Capacitor       -115VAC, 1PH       -       -       1	35		0 44 47 40 40 00 00		5/63-300-90	1		
-230VAC, 1PH 5761-351-00 5763-351-00 1 37 Run Capacitor -115VAC, 1PH 1								
37 Run Capacitor -115VAC, 1PH 1	36	Start Capacitor	•		-			
				5/61-351-00	5/63-351-00			
230VAC, 1PH - 5761-351-00 1		Run Capacitor	•	-	-			
			-230VAC, 1PH	-	5761-351-00	1		

<sup>(\*)</sup> Standard Hardware Item, Available Locally

# 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

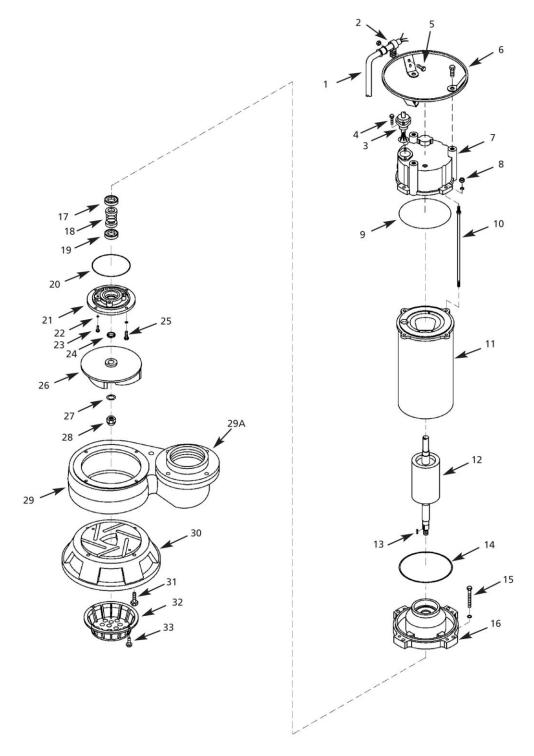


Figure 3 - Repair Parts Illustration - 4 inch

### **Repair Parts List**

- 110	pan i arts						
			Part Number for Models:				
Ref.			4-inch - 3HP	4-inch - 5HP			
No.	Description		SH4A3-E3 230/1	SH4B3-E5 460/3	Qty.		
1	Power Cord Kit	-230VAC, 1PH	5765-350-90	-	1		
		-460VAC, 3PH	-	576E-350-90	1		
-	(includes Ref. Nos. 1	1, 2, 3, and 4)					
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		5765-100-90	5767-100-90	1		
7	Wire Cover		-	-	-		
8	Fastener		*	*	4		
9	Seal		Incl. w/ Ref. 35	Incl. w/ Ref. 35	11		
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	11		
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		5765-001-95	5767-001-95	1		
29A	Flange & Gasket Kit		5765-070-95	5765-070-95	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		5765-170-90	5767-170-90	1		
33	Fastener		*	*	3		
34	Wear Plate & Impeller k	Kit	5765-010-90	5767-010-90	1		
	(includes Ref. Nos. 2	26, 27, 28, 30, and 31)					
35	Seal Kit (not shown)	,	5765-300-90	5767-300-90	1		
	(includes Ref. Nos. 9, 14, 17, 18, 19, 20, 22, and 24)						
36	Start Capacitor	-230VAC, 1PH	5763-351-00	-	1		
37	Run Capacitor	-230VAC, 1PH	5761-351-00	-	1		
	•	· · · · · · · · · · · · · · · · · · ·					

<sup>(\*)</sup> Standard Hardware Item, Available Locally