Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Action Electric Drum Pumps

Description

Action electric drum pumps are electrically driven and self-priming. They are designed to transfer clean, non-abrasive and nonflammable liquids that are compatible with pump materials. The motor is isolated from liquid by a mechanical seal made of Teflon with a Viton O-ring. The pump has an outer shell and inner shaft which are made of Type 316 stainless steel. Model ACT-HDESS has a continuous-duty electric motor. This pump also available with an air motor model ACT-16ESS. The motor has shielded, prelubricated ball bearings that reduce maintenance requirements.



MODEL ACT-16ESS MODEL ACT-HDESS

Figure 2 - Electric Drum Pumps

Performance

GMP† Total Head (in Feet)					Max.	Max.	
Model	0 ft.	5 ft.	10 ft.	15 ft.	20 ft.	Head*	Viscosity
ACT-16ESS	17	13	9	5	1	20.7ft	100 SSU
ACT-HDESS	10	5.0	-	_	<u>.</u>	10.0ft	500 SSU

^(†) Based on water at 72° F.

PUMP CHEMICAL COMPATIBILITY CHART

Acetic Acid	Formaldehyde (Aqueous solution)	Sodium aluminate
Alum (potassium sulfate)	Lactic acid	Sodium bicarbonate
Aluminum hydroxide	Nickel chloride	Sodium carbonate
Ammonia	Perchloroethylene	Sodium chloride
Amines	Phthalic anhydride	Sodium cyanide
Arsenic acid	Potassium bicarbonate	Sodium sulfate
Beer	Potassium bromide	Sodium sulfide
Beet sugar liquids	Potassium carbonate	Starch
Benzaldehyde	Potassium chloride	Sulfurous acid
Benzoic acid	Potassium nitrate	Tannic acid
Boric acid	Potassium sulfate	Tomato juice
Calcium hydroxide	Potassium sulfide	Trichlorethane
Calcium sulfate	Pyrogallic acid	Trichlorethylene
Chloroform	Silver nitrate	Vinegar
Citric acid	Soap solutions	Water
Copper sulfate	Soda ash (20%)	Zinc chloride
Ferric sulfate	Sodium acetate	Zinc sulfate



^(*) Calculate equivalent PSI by dividing total head by 2.31.

Action Electric Drum Pumps

The pump chemical compatibility chart, on the previous page, is a guide to assist in determining chemical compatibility with this Action pump. Other factors such as: viscosity, pressure, specific gravity, temperature, concentration, chemical combinations, etc. should also be considered when determining compatibility. Always contact your chemical supplier for his compatibility recommendations. We have attempted to eliminate all dangerous and/or flammable liquids from the list. Dangerous and/or flammable liquids are not recommended for use with Action pumps. Final selection should be based on actual field testing under the conditions of intended use. Many variables are involved in determining chemical compatibility. For this reason, Dayton Electric Mfg. Co. cannot guarantee compatibility or assume responsibility for personal injury and/or property damage to persons using this list.

Specifications

	ACT-16ESS	ACT-HDESS
Motor	. Universal type AC/DC,	. Capacitor start type,
	intermittent duty(2M145)	continuous-duty (6K181C)
Motor Bearings	. Ball, prelubricated & shielded	. Ball, prelubricated & shielded
Volts	. 115VAC, 60Hz, single phase	. 115/230VAC, 60Hz, single phase
Cord	. 6 Foot, 16 ga.,3-cond. SJT, w/molded	. 8 Foot, 16 ga.,3-cond. SJT w/feed thru
	3-prong plug for 115V	ON-OFF switch, w/molded 3-prong plug for 115V
Amps	. 6.3A	. 7.6A
Horsepower	. 1/2	. 1\3
RPM	. 10,000	. 3,450
Seals, impeller and auger	. Teflon	. Teflon
Pump body shaft & discharge	. Type 316 stainless saction	. Type 316 stainless saction
Pump discharge	. 3/4" FPT	. ³ /4" FPT
Discharge hose	. 5 ft, 1" I.D	. 5 ft, 1" I.D.
EPDM (Ethylene Propylene Diene Monome	er)	

General Safety Information

1. Know the pump application, limitations, and potential hazards.

A WARNING

Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in explosive atmospheres. Pump should only be used with liquids compatible with pump component materials. Failure to follow this warning can result in personal injury and/or property damage.

- Make certain that the power source (electric motor) conforms to the requirements of the equipment.
- 3. Provide adequate protection and guarding around moving parts.

- 4. Disconnect power before servicing.
- 5. Release all pressure within the system before servicing any component.
- 6. Drain all liquids from the system before servicing.
- Secure the discharge line before starting the pump. An unsecured discharge line will whip, possible causing personal injury and/or property damage.
- Check hoses for weak or worn condition before each use, making certain that all connections are secure.
- Periodically inspect pump and system components. Perform routine maintenance as required. (see Maintenance section).

 Provide a means of pressure relief for pumps whose discharge line can be shut off or obstructed.

11. Personal Safety

- a. Wear safety glasses at all times when working with pump.
- b. Wear a face shield, proper apparel when pumping hazardous chemicals.
- 12. When wiring an electrically-driven pump, follow all electrical and safety codes, as well as the most recent United States National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).

Models ACT-16ESS and ACT-HDESS

A WARNING

Risk of electrical shock! Never

connect the Green (or Green and Yellow) wire to a live terminal!

13. This equipment can be used for 120 volt (single phase) Models ACT-16ESS and ACT-HDESS (as shipped and wired from the factory). Model 3P680 can also be rewired for use with 230V (single phase). These units can be wired for portability, with flexible 3-wire cord (as supplied), or permanent installation using a power supply with a ground.

To reduce the risk of electrical shock,

the motor must be securely and adequately grounded! This can be accomplished by either: 1) inserting plug (portable) directly into a properly installed and grounded 3-prong grounding type receptacle (as shown in Figure 2A for 110-120V, or Figure 2B for 220-240V); 2) Permanently wiring the unit with a grounded, metal raceway system; 3) Using a separate ground wire connect to the bare metal of the motor frame; 4) Other suitable means. The green (or green and yellow) conductor in the cord is the grounding wire. The motor must be securely and adequately grounded for your protection against shock hazards! Where a 2-prong wall receptacle is encountered, it must be replaced a properly grounded 3-prong receptacle installed in accordance with the National Electrical Code and local codes and ordinances. To ensure a proper ground, the grounding means must be tested by a qualified electrician. Use only 3-wire extension cords that have a 3-prong, groundingtype plugs, and 3-pole receptacles that accept the equipment plug.

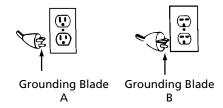


Figure2 - Grounding methods

- 14. All wiring should be performed by a qualified electrician.
- 15. Protect electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking the cord. Replace or repair damaged or worn cords immediately.
- 16. Keep fingers and foreign objects away from ventilation and other openings. Do not insert any objects into the motor.
- 17. Use wire of adequate size to minimize voltage drop at the motor.
- 18. Disconnect power before servicing a motor or its load. If the power disconnect is out-of-sight, lock it in the open position and tag it to prevent unexpected application of power.
- Do not touch an operating motor.
 Modern motors are designed to operate at high temperatures.

A WARNING

Do not handle a pump or pump

motor with wet hands or when standing on a wet or damp surface, or in water.

Installation/Operation

A WARNING

Do not use pump in explosive

atmospheres. Do not pump flammable liquids. In order to safely use this product familiarize yourself with this pump and also with the liquid (chemical, etc.) that is going to be pumped through the unit. Even though this pump is suitable for many liquids, it is NOT suitable for all liquids!

1. Place the pump into the liquid to be pumped.

A CAUTIONDo not pump liquids containing metal chips or shavings. Never operate the pump dry. These will damage the pump.

- 2. Attach the pump to the drum with the bung adapter supplied.
- 3. Secure the discharge line of the pump to keep it from lashing about.
- 4. Plug the pump power cord into a properly installed receptacle.

Note: Both models as supplied from factory, are wired for 115V operation. Model ACT-HDESS can be used for 230V if motor is rewired for this use and cord is replaced. Follow the instructions on the motor plate or inside cover of the connection box to change unit for 230V operation.

An incorrect connection may cause an electrical short, produce an electrical shock or burn out the pump motor, resulting in property damage and injury.

- It is strongly recommended that this unit be plugged into a G.F.I.C. (Ground Fault Interrupter Circuit). Consult your local electrician for installation and availability
- 6. Unplug the pump when the pumping operation is complete.



Action Electric Drum Pumps

Installation/Operation (Continued)

Note: The pump will drain down when it is unplugged.

7. This unit is not waterproof and is not intended to be used in showers, saunas, or other potentially wet locations. The motor is designed to be used in a clean, dry location with access to an adequate supply of cooling air. Ambient temperature around the motor should not exceed 104° F (40° C). For outdoor installations motor must be protected by a cover that does not block airflow to and around the motor. This unit is not weatherproof nor is it able to be submersed in water, or any other liquid.

Maintenance

A WARNING

Disconnect power before servicing.

A CAUTION

Do not stand the pump on its shaft.

- 1. After each use, flush the pump with water or a suitable nonflammable solvent.
- 2. Store the pump in a clean, dry area; the preferred method of storage is hanging.
- 3. Motor bearing never needs to be lubricated, replace when necessary.
- 4. Pump should be checked daily, weekly, monthly, etc., for proper operation. If anything has changed since unit was new, unit should be removed and repaired or replaced. Replace any worn or damaged part immediately.
- 5. Only qualified electricians or servicemen should attempt to repair this unit

A WARNING Improper repair and/or assembly can cause an electrical shock hazard.

Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Pump does not prime	1. Clogged impeller or augers	1. Clean impeller and augers
	2. Clogged discharge port	2. Clean discharge port and hose
	3. Broken shaft coupling	3. Replace shaft coupling
	4. Worn or damaged shaft seal	4. Replace shaft seal
Insufficient flow	Possible causes for "Pump does not prime" (above)	1. Check and repair as is necessary
	2. Clogged impeller or augers	2. Clean impeller or augers
	3. Clogged discharge hose	3. Clean discharge hose
	4. Pinched discharge hose	4. Replace discharge hose
	5. Pumped liquid is too viscous	 Use only for liquids with viscosity within range of pump.(See Specifications) Model ACT-16ESS to 100 S.S.U. Model ACT-HDESS to 500 S.S.U.

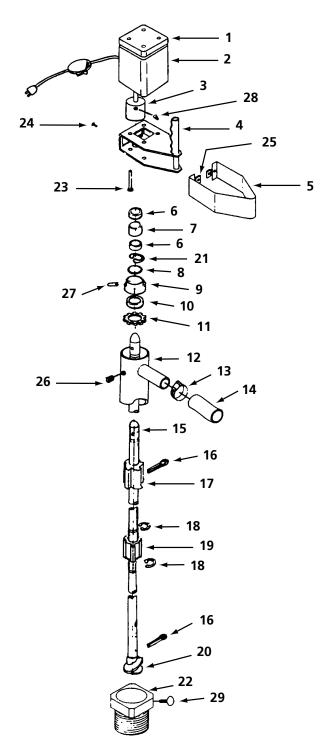


Figure 3 — Replacement Parts Illustration

90-Day Limited Warranty

Replacement Parts List

Reference Number	Description	Davit Number	Quantity
Number	Description	Part Number	Quantity
1	Motor Guard	66101	1
2	1/2 HP Motor w/8 ft. Power Cord and Switch	66999	1
3	Pump Coupling	66896	1
4	Handle/Pump Mount Assembly	66285	1
5	Cover Plate	66407	1
6	Bearing	66108	2
7	Spacer	66189	1
8	O-Ring	66111	1
9	End Cap	66912	1
10	Seal	66413	1
11	Star Washer	66555	1
12	316SS Outer Column	66717	1
13	Hose Clamp	1P416	1
14	5 Foot EPMD Hose	66119	1
15	316SS Inner Shaft	66120	1
16	Cotter Pin	66921	2
17	Teflon Impeller	66722	1
18	SS "C" Ring Retainer	66123	6
19	Teflon Spacer	66825	3
20	Teflon Auger	66829	1
21	Retaining Ring	66130	1
22	Bung Adapter	6500	1
23	Motor Mount Screw	66011	4
24	Cover Plate Screw	66004	2
25	Speed Nut	66003	2
26	Column Set Screw	66017	2
27	Roll Pin	66005	1
28	Coupling Set Screw	66016	2
29	Thumb Screw	1650-19	1

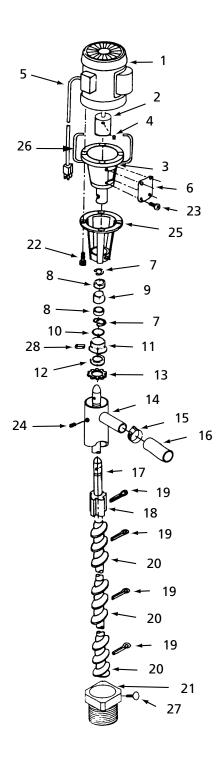


Figure 4 — Replacement Parts Illustration

Replacement Parts List

1 1/3 HP Motor 6K181C 1 2 Motor Coupling 68996 1 3 Pump Mount Assembly 68333 1 4 Coupling Set Screw 68332 2 5 Power Cord w/Switch 68334 1 6 Cover Plate 68334 1 7 Retaining Ring 66130 1 8 Bearing 66130 1 9 Spacer 66189 1 10 O-Ring 68331 1 11 End Cap 66912 1 12 Seal 66413 1 13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, S. Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 </th <th>Reference Number</th> <th>Description</th> <th>Part Number</th> <th>Quantity</th>	Reference Number	Description	Part Number	Quantity
3 Pump Mount Assembly 68333 1 4 Coupling Set Screw 68332 2 5 Power Cord w/Switch 68334 1 6 Cover Plate 68335 1 7 Retaining Ring 66130 1 8 Bearing 66108 2 9 Spacer 66189 1 10 O-Ring 68331 1 11 End Cap 66912 1 12 Seal 66413 1 13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter	1	1/3 HP Motor	6K181C	1
4 Coupling Set Screw 68332 2 5 Power Cord w/Switch 68334 1 6 Cover Plate 68335 1 7 Retaining Ring 66130 1 8 Bearing 66108 2 9 Spacer 66189 1 10 O-Ring 68331 1 11 End Cap 66912 1 12 Seal 66413 1 13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68014 4 24 Column Set Screw 68014 4 </td <td>2</td> <td>Motor Coupling</td> <td>68996</td> <td>1</td>	2	Motor Coupling	68996	1
5 Power Cord w/Switch 68334 1 6 Cover Plate 68335 1 7 Retaining Ring 66100 1 8 Bearing 66108 2 9 Spacer 66189 1 10 O-Ring 68331 1 11 End Cap 66912 1 12 Seal 66413 1 13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68014 4 24 Column Set Screw	3		68333	1
5 Power Cord w/Switch 68334 1 6 Cover Plate 68335 1 7 Retaining Ring 66100 1 8 Bearing 66108 2 9 Spacer 66189 1 10 O-Ring 68331 1 11 End Cap 66912 1 12 Seal 66413 1 13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68014 4 24 Column Set Screw	4	•	68332	2
7 Retaining Ring 66130 1 8 Bearing 66108 2 9 Spacer 66189 1 10 O-Ring 68331 1 11 End Cap 66912 1 12 Seal 66413 1 13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68332 2 27 Thumb Screw 1650-19 1	5		68334	1
8 Bearing 66108 2 9 Spacer 66189 1 10 O-Ring 68331 1 11 End Cap 66912 1 12 Seal 66413 1 13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Sct Screw 68014 4 24 Column Set Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1 <td></td> <td>Cover Plate</td> <td>68335</td> <td>1</td>		Cover Plate	68335	1
8 Bearing 66108 2 9 Spacer 66189 1 10 O-Ring 68331 1 11 End Cap 66912 1 12 Seal 66413 1 13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Sct Screw 68014 4 24 Column Set Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1 <td>7</td> <td>Retaining Ring</td> <td>66130</td> <td>1</td>	7	Retaining Ring	66130	1
10 O-Ring 68331 1 11 End Cap 66912 1 12 Seal 66413 1 13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	8		66108	2
11 End Cap 66912 1 12 Seal 66413 1 13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	9	Spacer	66189	1
12 Seal 66413 1 13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	10	O-Ring	68331	1
13 Star Washer 66555 1 14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	11	End Cap	66912	1
14 Outer Column 66717 1 15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	12	Seal	66413	1
15 Hose Clamp 1P416 1 16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	13	Star Washer	66555	1
16 Hose, 5 Foot EPDM 66119 1 17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	14	Outer Column	66717	1
17 Inner Shaft 68120 1 18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	15	Hose Clamp	1P416	1
18 Teflon Impeller 66722 1 19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	16	Hose, 5 Foot EPDM	66119	1
19 Cotter Pin 66921 4 20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	17	Inner Shaft	68120	1
20 Teflon Auger 68338 3 21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	18	Teflon Impeller	66722	1
21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	19		66921	4
21 Bung Adapter 65000 1 22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	20	Teflon Auger	68338	3
22 Handle Set Screw 68051 4 23 Cover Plate Screw 68014 4 24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	21		65000	1
24 Column Set Screw 66017 2 25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1			68051	4
25 H/D Bracket 68342 1 26 Handle 68332 2 27 Thumb Screw 1650-19 1	23	Cover Plate Screw	68014	4
26 Handle 68332 2 27 Thumb Screw 1650-19 1	24	Column Set Screw	66017	2
27 Thumb Screw 1650-19 1	25	H/D Bracket	68342	1
27 Thumb Screw 1650-19 1	26	Handle	68332	2
28 Roll Pin 66005 1		Thumb Screw	1650-19	1
	28	Roll Pin	66005	1