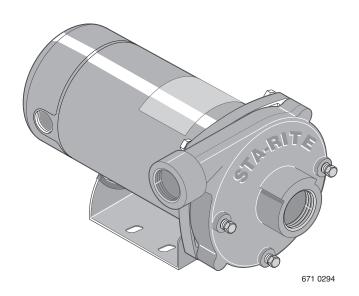




60 Cycle "J" and "JB" Series Centrifugal Pump

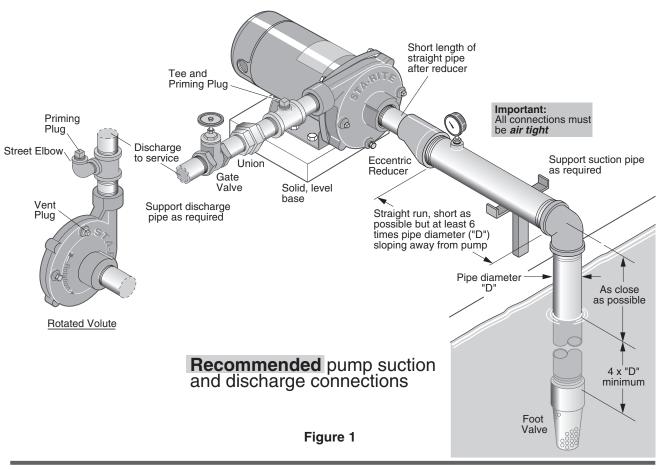
STA-RITE®

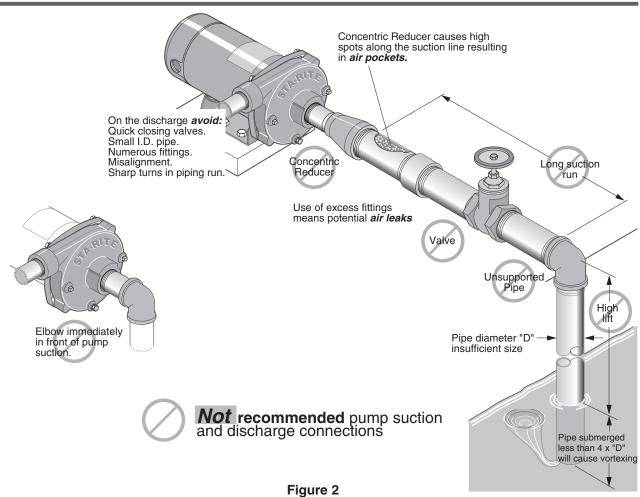
INSTALLATION AND OPERATING INSTRUCTIONS REPAIR PARTS LIST



	MODELS									
HP	HP MEDIUM HEAD MODELS					HIGH HEAD MODELS				
1/3	JBMB-56S	_	JMB-56L	_	JBHB-61S	_	JHB-61HL	_		
1/2	JBMC-56S	JBMC3-56S	JMC-56L	JMC3-56	JBHC-61S	JBHC3-61S	JHC-61HL	JHC3-61H		
3/4	JBMD-57S	JBMD3-57S	JMD-57L	JMD3-57	JBHD-62S	JBHD3-62S	JHD-62HL	JHD3-62H		
1	JBME-58S	JBME3-58S	JME-58L	JME3-58	JBHE-63S	JBHE3-63S	JHE-63HL	JHE3-63H		
1-1/2	JBMF-40S	JBMF3-40S	JMF-40L	JMF3-40	JBHF-51S	JBHF3-51S	JHF-51HL	JHF3-51H		
2	JBMG-41S	JBMG3-41S	JMG-41L	JMG3-41	JBHG-52S	JBHG3-52S	JHG-52HL	JHG3-52H		
2-1/2	JBMMG-59S	JBMMG3-59S	-	-	JBHHG-53S	JBHHG3-53S	JHHG-53HL	JHHG3-53H		

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California Proposition 65 Warning

▲ WARNING This product and related accessories contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

PIPING - GENERAL

Support both suction and discharge piping independently at a point near the pump to avoid putting a strain on the pump housing. Start all piping **AT THE PUMP.**

Increase pipe diameter at both the suction and discharge by one (1) standard pipe size (minimum) to obtain desired performance and flow rate. Refer to Table I when sizing pipe for your pumping system.

NOTICE: Do not use pipe with **smaller** diameter on the suction side of pump.

TABLE I

-	apping n Pump	Recommended Pipe Size			
Suction	Discharge	Suction	Discharge		
1-1/4	1	1-1/2	1-1/4		
1-1/2	1-1/4	2	1-1/2		
2	1-1/2	3	2		

SUCTION PIPE

suction connection.

Increase pipe size from pump tapping as shown in Table I. Figure 1 (Page 2) depicts a recommended run of pipe and fittings for the suction side of a centrifugal pump. Please refer to this illustration when choosing pipe and fittings for your

IMPORTANT: All connections must be air tight!

Figure 2 (Page 2) depicts conditions that are **NOT DESIRABLE** on the suction side of a centrifugal pump and may cause problems in flow rate and priming. Please look this illustration over carefully before choosing pipe and fittings for your suction connection.

DISCHARGE PIPING

Increase pipe size from pump tapping as show in Table I. Figure 1 (Page 2) depicts a recommended run of pipe and fittings for the discharge. Install tee with priming plug as close to pump as possible. Figure 2 (Page 2) notes conditions that should be avoided. Please read over carefully before making discharge connection.

PRIMING THE PUMP

A pump is primed when all air in the suction line and pump volute has been evacuated and replaced with water.

To Prime:

- 1. Close valve in discharge line.
- 2. Remove priming plug from tee and fill pump and suction line with water until water is flowing back out of tee.
- 3. Replace priming plug.
- Start pump and slowly open valve until desired water flow is achieved.

NOTICE: If water is not being pumped, turn off pump, close valve, and repeat steps 1 thru 4.

If pump volute is rotated as shown in Figure 1 (Page 2), loosen vent plug when priming to evacuate air trapped inside volute and tighten when volute is completely filled with water.

AWARNING Risk of explosion and scalding. Never run pump against closed discharge. To do so can boil water inside pump, causing hazardous pressure buildup and possible explosion.

A CAUTION Risk of flooding. Do not run the pump dry. This will damage mechanical seal and void warranty. It may cause burns to person handling pump.

Motor normally operates at high temperature and will be too hot to touch. It is protected from heat damage during operation by an automatic internal cutoff switch. Before handling pump or motor, stop motor and allow it to cool for 20 minutes.

TABLE II - RECOMMENDED FUSING AND WIRING DATA - 60 CYCLE MOTORS

		BRANCH			DIAMETE	R IN FEET FR	OM MOTOR TO	O METER	
		FUSE*		0' TO 50'	51' TO 100'	101' TO	201' TO	301' TO	401' TO
MOTOR	MAX. LOAD	RATING	Circuit			200'	300'	400'	500'
HP	AMPERES	AMPS	Breaker			WIRE	SIZE		
SINGLE PHA	SE - 115/230 V	OLT							
1/3	9.4/4.7	15/15	30/30	14/14	14/14	10/14	10/14	6/14	6/12
1/2	9.4/4.7	15/15	30/30	14/14	14/14	10/14	10/14	6/14	6/12
3/4	12.2/6.1	20/15	40/30	12/14	12/14	10/14	8/14	6/12	6/12
1	14.8/7.4	20/15	40/30	12/14	12/14	8/14	6/14	6/12	4/10
1-1/2	19.2/9.6	25/15	50/30	10/14	10/14	8/14	6/12	4/10	4/10
2	24.0/12.0	30/15	60/30	12/14	10/14	6/14	6/12	4/10	4/10
2-1/2	/11.7	15/15	30/30	14/14	14/14	14/14	12/12	12/12	10/10
THREE PHAS	SE - 230/460 V	OLT							
1/2	2.3/1.15	15/15	30/30	14/14	14/14	14/14	14/14	14/14	14/14
3/4	3.1/1.55	15/15	30/30	14/14	14/14	14/14	14/14	14/14	14/14
1	3.6/1.8	15/15	30/30	14/14	14/14	14/14	14/14	14/14	14/14
1-1/2	4.7/2.35	15/15	30/30	14/14	14/14	14/14	14/14	14/14	14/14
2	6.8/3.4	15/15	30/30	14/14	14/14	14/14	14/14	12/14	12/14
2-1/2	8.5/4.25	15/15	30/30	14/14	14/14	14/14	14/14	12/14	10/14

^{*} Time delay fuse or circuit breakers are recommended in any motor circuit.

ELECTRICAL

Connection diagram for dual voltage, single-phase motors. Your dual-voltage motor's terminal board (under the motor end cover) will match one of the diagrams below. Follow that diagram if necessary to convert motor to 115 Volt power.

Connect power supply wires to L1 and L2. For 3-phase motors, or if motor does not match these pictures, follow the connection diagram on the motor nameplate.

THE MOTOR IS SET FOR 230 VOLTS WHEN SHIPPED.

To change the motor to use 115 volts:

- 1. Turn off power
- 2. Remove the back motor cover.
- 3. Use a screwdriver or 1/2" wrench and turn the voltage selector dial counterclockwise until 115 shows in the dial opening.
- 4. Reinstall the motor cover.

AWARNING Hazardous voltage. Can shock, burn, or cause death. Disconnect power to motor before working on pump or motor. Ground motor before connecting to power supply.



Figure 3: Changing the Voltage Setting



Figure 4: Motor Set for 115 Volt Operation

WIRING



Ground motor before connecting to electrical power supply. Failure to ground motor can cause severe or fatal electrical shock hazard.



Do not ground to a gas supply line.



To avoid dangerous or fatal electrical shock, turn OFF power to motor before working on electrical connections.



Supply voltage must be within $\pm 10\%$ of nameplate voltage. Incorrect voltage can cause fire or damage motor and voids warranty. If in doubt consult a licensed electrician.



Use wire size specified in Wiring Chart (Page 3). If possible, connect pump to a separate branch circuit with no other appliances on it.



Wire motor according to diagram on motor nameplate. If nameplate diagram differs from diagrams above, follow nameplate diagram.

- Install, ground, wire and maintain your pump in compliance with the National Electrical Code (NEC) in the U.S., or the Canadian Electrical Code (CEC), as applicable, and with all local codes and ordinances that apply. Consult your local building inspector for code information.
- Provide a correctly fused disconnect switch for protection while working on motor. For switch requirements, consult your local building inspector for information about codes.
- 3. Disconnect power before servicing motor or pump. If the disconnect switch is out of sight of pump, lock it open and tag it to prevent unexpected power application.
- 4. Ground the pump permanently using a wire of the same size as that specified in wiring chart (Page 3). Make ground connection to green grounding terminal under motor canopy marked GRD. or .
- Connect ground wire to a grounded lead in the service panel or to a metal underground water pipe or well casing at least 10 feet long. Do not connect to plastic pipe or insulated fittings.
- 6. Protect current carrying and grounding conductors from cuts, grease, heat, oil, and chemicals.
- 7. Connect current carrying conductors to terminals L1 and L2 under motor canopy. When replacing motor, check wiring diagram on motor nameplate against Figure ##. If the motor wiring diagram does not match either diagram in Figure 3, follow the diagram on the motor.

IMPORTANT: 115/230 Volt single phase models are shipped from factory with motor wired for 230 volts. If power supply is 115 volts, remove motor canopy and reconnect motor as shown in Figure 3. Do not try to run motor as received on 115 volt current.

- Motor has automatic internal thermal overload protection. If motor has stopped for unknown reasons, thermal overload may restart it unexpectedly, which could cause injury or property damage. Disconnect power before servicing motor.
- If this procedure or the wiring diagrams are confusing, consult a licensed electrician.

SERVICE

PUMP SERVICE

This centrifugal pump requires little or no service other than reasonable care and periodic cleaning. Occasionally, however, a shaft seal may become damaged and must be replaced. The procedure as outlined below will enable you to replace the seal.

NOTICE: Pumps use mechanical seals with a rubber seat ring or a sealing O-Ring. THESE SEALS ARE COMPLETELY INTERCHANGEABLE.

NOTICE: The highly polished and lapped faces of this seal are easily damaged. Read instructions and handle the seal with care.

Some models are equipped with an impeller screw, which has a left hand thread. Before unscrewing the impeller, remove the impeller screw.

REMOVAL OF OLD SEAL

- After unscrewing impeller, carefully remove rotating part of seal by prying up on sealing washer, using two screwdrivers (see Figure 5A). Use care not to scratch motor shaft.
- Remove seal plate from motor and place on flat surface, face down. Use a screwdriver to push ceramic seat out from seal cavity (see Figure 5B).

INSTALLATION OF FLOATING SEAT (Figure 5C)

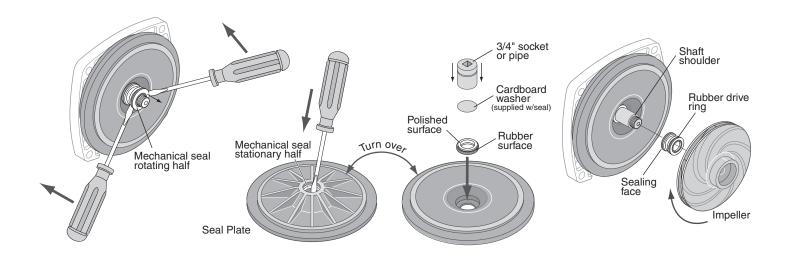
- 1. Clean polished surface of floating seat with clean cloth.
- Turn seal plate over so seal cavity is up, clean cavity thoroughly.
- 3. Lubricate outside rubber surface of ceramic seat with soapy water and press firmly into seal cavity with finger pressure. If seat will not locate properly in this manner, place cardboard washer over polished face of seat and press into seal cavity using a 3/4" socket or 3/4" piece of standard pipe.
- DISPOSE OF CARDBOARD WASHER. Be sure polished surface of seat is free of dirt and has not been damaged by insertion. Remove excess soapy water.

INSTALLATION OF ROTATING PART OF SEAL UNIT (Figure 5D)

- Reinstall seal plate using extreme caution not to hit ceramic portion of seal on motor shaft.
- 2. Inspect shaft to make sure that it is clean.
- 3. Clean face of sealing washer with clean cloth.
- Lubricate inside diameter and outer face of rubber drive ring with soapy water and slide assembly on motor shaft (sealing face first) until rubber drive ring hits shaft shoulder.
- Screw impeller on shaft until impeller hub hits shaft shoulder. This will automatically locate seal in place and move the sealing washer face up against seat facing. Reinstall impeller screw (if used).

D-Rotating half installation

5939 0109

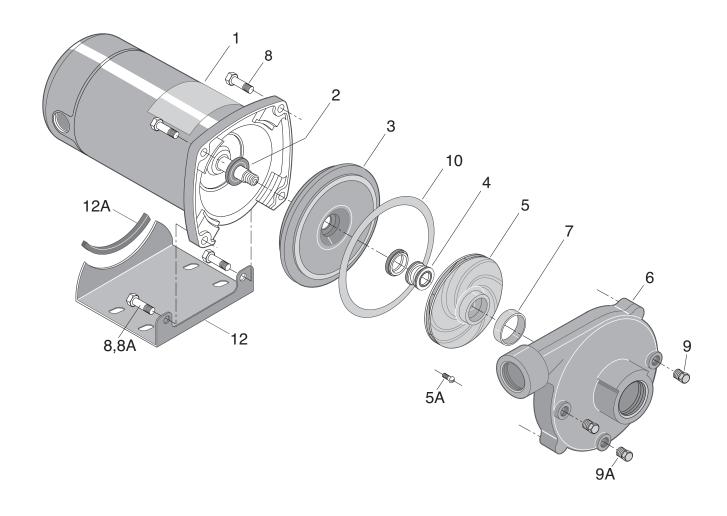


C-Stationary half installation

B-Seal removal-stationary half

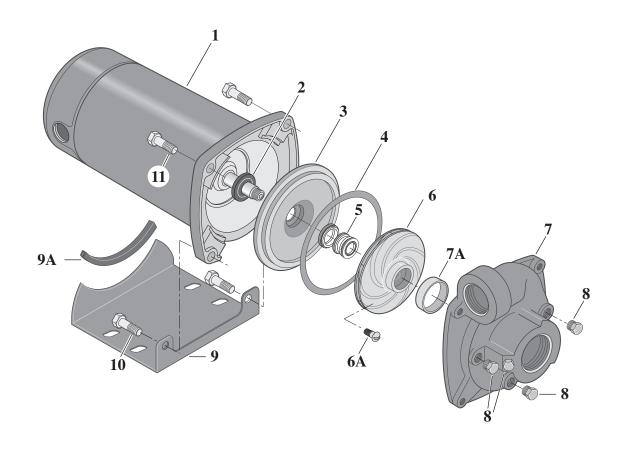
FIGURE 5

A-Seal removal-rotating half



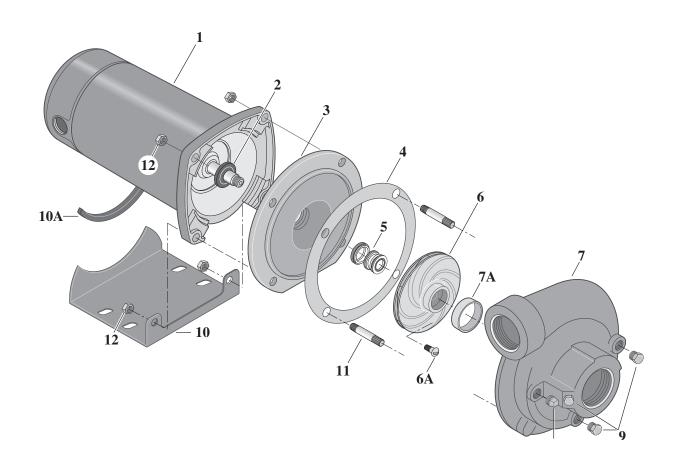
			MOTOR AND HORSEPOWER					
Part Description	No. Used	JHB-61HL - 1/3 HP	JHC-61HL JHC3-61H 1/2 HP	JHD-62HL JHD3-62H 3/4 HP	JHE-63HL JHE3-63H 1 HP	JHF-51HL JHF3-51H 1-1/2 HP	JHG-52HL JHG3-52H 2 HP	JHHG-53HL JHHG3-53H 2-1/2 HP
Motor, 115/230V, Single Phase	1	J218-582APKG	J218-582APKG	J218-590PKG	J218-596PKG	J218-601PKG	J218-883APKG	J218-628APKG
Motor, 230/460V Three Phase	1	_	AP100CL	AP100DL	AP100EL	AP100FL	AP100GL	AP100G5L
Water Slinger	1	17351-0009	17351-0009	17351-0009	17351-0009	17351-0009	17351-0009	17351-0009
Seal Plate	1	C3-178t	C3-178	C3-178	C3-178	C3-178	C3-181	C3-181
Shaft Seal	1	U109-6A	U109-6A	U109-6A	U109-6A	U109-6A	U109-6A	U109-6A
Impeller - Single Phase	1	C105-92PNX	C105-92PNX	C105-92PMX	C105-92PLX	C105-92PBX	C105-214PCA	C105-214PA
Impeller - Three Phase	1	_	C105-92PNXA	C105-92PMXA	C105-92PLXA	C105-92PBXA	C105-214PCA	C105-214PA
Impeller Screw - Three Phase	1	_	C30-12	C30-14SS	C30-14SS	C30-14SS	C30-14SS	C30-47SS
Volute Assembly - Includes Wear Ring	1	C101-284A	C101-284A	C101-284A	C101-284A	C101-284A	C101-264	C101-264B
Wear Ring	(1)	C23-27	C23-27	C23-27	C23-27	C23-27	C23-19	C23-19
Capscrew - 3/8 - 16 x 1" Lg.	(2)	_	_	_	_	_	U30-74ZP	U30-99SS
Capscrew - 3/8 - 16 x 1-1/4" Lg.	(2)	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	_	_
Capscrew - 3/8 - 16 x 1-1/4" Lg.	(2)	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	U30-104ZP
Pipe Plug - 1/4" NPT	(3)	U78-941ZPV	U78-941ZPV	U78-941ZPV	U78-941ZPV	U78-941ZPV	U78-941ZPV	U78-941ZPV
Gasket - Volute	1	C20-121C	C20-121C	C20-121C	C20-121C	C20-121C	C20-122C	C20-122C
Base	1	J104-9F	J104-9F	J104-9F	J104-9F	J104-9F	J104-9F	J104-9F
Motor Pad	1	C35-5S	C35-5S	C35-5S	C35-5S	C35-5S	C35-5S	C35-5S
SERVICE KIT								
Seal and Gasket Kit	1	PP1700	PP1700	PP1700	PP1700	PP1700	PP1700	PP1700
NOTE: † Included in Seal and Gas	ket Kit.							
	Description Motor, 115/230V, Single Phase Motor, 230/460V Three Phase Water Slinger Seal Plate Shaft Seal Impeller - Single Phase Impeller - Three Phase Impeller Screw - Three Phase Volute Assembly - Includes Wear Ring Wear Ring Capscrew - 3/8 - 16 x 1" Lg. Capscrew - 3/8 - 16 x 1-1/4" Lg. Pipe Plug - 1/4" NPT Gasket - Volute Base Motor Pad	Description Used Motor, 115/230V, Single Phase 1 Motor, 230/460V Three Phase 1 Water Slinger 1 Seal Plate 1 Shaft Seal 1 Impeller - Single Phase 1 Impeller - Three Phase 1 Impeller Screw - Three Phase 1 Volute Assembly - Includes Wear Ring (1) Wear Ring (1) Capscrew - 3/8 - 16 x 1" Lg. (2) Capscrew - 3/8 - 16 x 1-1/4" Lg. (2) Pipe Plug - 1/4" NPT (3) Gasket - Volute 1 Base 1 Motor Pad 1	Part Description No. Used − 1/3 HP Motor, 115/230V, Single Phase 1 J218-582APKG Motor, 230/460V Three Phase 1 − Water Slinger 1 17351-0009 Seal Plate 1 C3-178t Shaft Seal 1 U109-6A Impeller - Single Phase 1 C105-92PNX Impeller - Three Phase 1 − Impeller Screw - Three Phase 1 − Volute Assembly - Includes Wear Ring 1 C101-284A Wear Ring (1) C23-27 Capscrew - 3/8 - 16 x 1" Lg. (2) − Capscrew - 3/8 - 16 x 1-1/4" Lg. (2) U30-75ZP Pipe Plug - 1/4" NPT (3) U78-941ZPV Gasket - Volute 1 C20-121C Base 1 J104-9F Motor Pad 1 C35-5S	Part Description No. Used - Used JHC3-61H 1/2 HP Motor, 115/230V, Single Phase 1 J218-582APKG J218-582APKG Motor, 230/460V Three Phase 1 − AP100CL Water Slinger 1 17351-0009 17351-0009 Seal Plate 1 C3-178t C3-178 Shaft Seal 1 U109-6A U109-6A Impeller - Single Phase 1 C105-92PNX C105-92PNX Impeller - Three Phase 1 − C105-92PNXA Impeller Screw - Three Phase 1 − C30-12 Volute Assembly - Includes Wear Ring 1 C101-284A C101-284A Wear Ring (1) C23-27 C23-27 Capscrew - 3/8 - 16 x 1" Lg. (2) - - Capscrew - 3/8 - 16 x 1-1/4" Lg. (2) U30-75ZP U30-75ZP Pipe Plug - 1/4" NPT (3) U78-941ZPV U78-941ZPV Gasket - Volute 1 C20-121C C20-121C Base 1 J104-9F J104-9F <td>Part Description No. Used JHB-61HL - 1/3 HP JHC-61HL JHC3-61H 1/2 HP JHD3-62HL JHD3-62H 3/4 HP Motor, 115/230V, Single Phase 1 J218-582APKG J218-582APKG J218-590PKG Motor, 230/460V Three Phase 1 - AP100CL AP100DL Water Slinger 1 17351-0009 17351-0009 17351-0009 Seal Plate 1 C3-178 C3-178 C3-178 Shaft Seal 1 U109-6A U109-6A U109-6A Impeller - Single Phase 1 - C105-92PNX C105-92PMX Impeller - Three Phase 1 - C30-12 C30-14SS Volute Assembly - Includes Wear Ring 1 C101-284A C101-284A C101-284A Wear Ring (1) C23-27 C23-27 C23-27 C23-27 Capscrew - 3/8 - 16 x 1" Lg. (2) U30-75ZP U30-75ZP U30-75ZP Capscrew - 3/8 - 16 x 1-1/4" Lg. (2) U30-75ZP U30-75ZP U30-75ZP Pipe Plug - 1/4" NPT (3) U78-941ZPV U78-941ZP</td> <td>Part Description No. Used JHB-61HL - 1/3 HP JHC-61HL JH03-62H JH03-62H JH03-62H JH03-62H JH03-63H JH23-63H J</td> <td>Part Description No. Used JHB-61HL - 1/3 HP 1/2 HP 1/2 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/3 HP 1/2 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/2 HP 1/3 HP 1/3 HP 1/3 HP 1/3 HP 1/2 HP 1/3 H</td> <td>Part Description No. Used JHB-61HL - 1/13 HP 1/2 HP 1/2 HP 1/13 HP 1/2 HP 1/13 HP 1/12 HP 1/12 HP 1/13 HP 1/12 HP 1/13 HP 1/12 HP 1/12 HP 1/12 HP 1/13 HP 1/12 HP 1/12 HP 1/13 HP 1/12 HP 1/12 HP 1/12 HP 1/13 HP 1/13 HP 1/12 HP 1/13 HP 1/14 HP 1/14 HP 1/14 HP 1/14 HP 1/14 HP 1/12 HP 1/13 HP 1/14 HP 1/14 HP 1/14 HP 1/13 HP 1/14 HP 1/13 HP 1/14 HP 1/14 HP 1/14 HP 1/13 HP 1/14 HP 1/</td>	Part Description No. Used JHB-61HL - 1/3 HP JHC-61HL JHC3-61H 1/2 HP JHD3-62HL JHD3-62H 3/4 HP Motor, 115/230V, Single Phase 1 J218-582APKG J218-582APKG J218-590PKG Motor, 230/460V Three Phase 1 - AP100CL AP100DL Water Slinger 1 17351-0009 17351-0009 17351-0009 Seal Plate 1 C3-178 C3-178 C3-178 Shaft Seal 1 U109-6A U109-6A U109-6A Impeller - Single Phase 1 - C105-92PNX C105-92PMX Impeller - Three Phase 1 - C30-12 C30-14SS Volute Assembly - Includes Wear Ring 1 C101-284A C101-284A C101-284A Wear Ring (1) C23-27 C23-27 C23-27 C23-27 Capscrew - 3/8 - 16 x 1" Lg. (2) U30-75ZP U30-75ZP U30-75ZP Capscrew - 3/8 - 16 x 1-1/4" Lg. (2) U30-75ZP U30-75ZP U30-75ZP Pipe Plug - 1/4" NPT (3) U78-941ZPV U78-941ZP	Part Description No. Used JHB-61HL - 1/3 HP JHC-61HL JH03-62H JH03-62H JH03-62H JH03-62H JH03-63H JH23-63H J	Part Description No. Used JHB-61HL - 1/3 HP 1/2 HP 1/2 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/3 HP 1/2 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/3 HP 1/2 HP 1/2 HP 1/3 HP 1/3 HP 1/3 HP 1/3 HP 1/2 HP 1/3 H	Part Description No. Used JHB-61HL - 1/13 HP 1/2 HP 1/2 HP 1/13 HP 1/2 HP 1/13 HP 1/12 HP 1/12 HP 1/13 HP 1/12 HP 1/13 HP 1/12 HP 1/12 HP 1/12 HP 1/13 HP 1/12 HP 1/12 HP 1/13 HP 1/12 HP 1/12 HP 1/12 HP 1/13 HP 1/13 HP 1/12 HP 1/13 HP 1/14 HP 1/14 HP 1/14 HP 1/14 HP 1/14 HP 1/12 HP 1/13 HP 1/14 HP 1/14 HP 1/14 HP 1/13 HP 1/14 HP 1/13 HP 1/14 HP 1/14 HP 1/14 HP 1/13 HP 1/14 HP 1/

^{*} For repair or service to motors, always give the motor Model Number and any other data found on the Motor Model Plate.



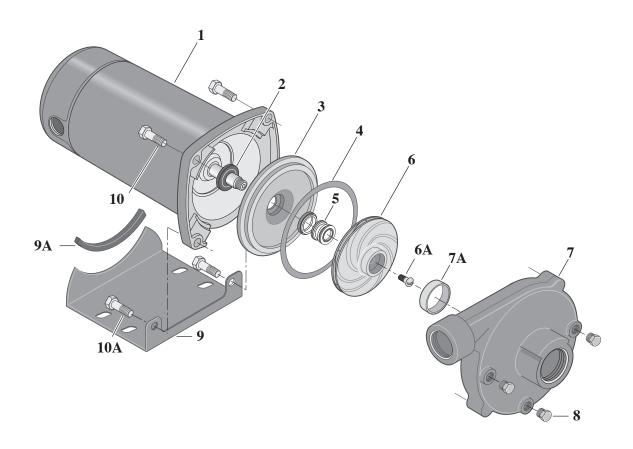
Key No. Part Description No. Used JMB-56L JMC-56L JMC3-56 JMD3-57 JM	JME-58L JME3-58 1 HP J218-596PKG AP100EL					
Key No. Part Description No. Used — 1/3 HP JMC3-56 1/2 HP JMD3-57 3/4 HP 1* Motor, 115/230V, Single Phase 1 J218-582APKG J218-582APKG J218-590PKG 1* Motor, 230/460V, Three Phase 1 — AP100CL AP100DL †2 Water Slinger 1 17351-0009 17351-0009 17351-0009 3 Seal Plate 1 N3-8 N3-8 N3-8 4 Gasket, Seal Plate 1 N20-26C N20-26C N20-26C †5 Shaft Seal 1 U109-6A U109-6A U109-6A	JME3-58 1 HP J218-596PKG AP100EL					
1* Motor, 230/460V, Three Phase 1 - AP100CL AP100DL †2 Water Slinger 1 17351-0009 17351-0009 17351-0009 3 Seal Plate 1 N3-8 N3-8 N3-8 4 Gasket, Seal Plate 1 N20-26C N20-26C N20-26C †5 Shaft Seal 1 U109-6A U109-6A U109-6A	AP100EL					
†2 Water Slinger 1 17351-0009 17351-0009 17351-0009 3 Seal Plate 1 N3-8 N3-8 N3-8 4 Gasket, Seal Plate 1 N20-26C N20-26C N20-26C †5 Shaft Seal 1 U109-6A U109-6A U109-6A	1					
3 Seal Plate 1 N3-8 N3-8 N3-8 4 Gasket, Seal Plate 1 N20-26C N20-26C N20-26C †5 Shaft Seal 1 U109-6A U109-6A U109-6A	17051 0000					
4 Gasket, Seal Plate 1 N20-26C N20-26C N20-26C 15 Shaft Seal 1 U109-6A U109-6A U109-6A	17351-0009					
†5 Shaft Seal 1 U109-6A U109-6A U109-6A	N3-8					
	N20-26C					
6 Impeller - Single Phase 1 J105-42PHA J105-42PHA J105-42PJA	U109-6A					
	J105-42P					
6 Impeller - Three Phase 1 – J105-42PHA J105-42PJA	J105-42PPA					
6A Impeller Screw - Three Phase 1 C30-6SS C30-6SS	C30-6SS					
7 Volute Assembly w/Wear Ring 1 C101-122E C101-122E C101-122E	C101-122					
7A Wear Ring (Only) (1) N23-7 N23-7 N23-7	N23-7					
8 Pipe Plug - 1/4" NPT (4) U78-941ZPV U78-941ZPV U78-941ZPV	U78-941ZPV					
9 Base 1 J104-9 J104-9 J104-9	J104-9					
9A Motor Pad 1 C35-5S C35-5S C35-5S	C35-5S					
10 Capscrews - 3/8 - 16 x 1-1/4" (2) U30-75ZP U30-75ZP U30-75ZP	U30-75ZP					
11 Capscrews - 3/8 - 16 x 1-1/2" (2) U30-76ZP U30-76ZP U30-76ZP	U30-76ZP					
SERVICE KIT						
Seal and Gasket Kit 1 PP1700 PP1700 PP1700	PP1700					
NOTICE: † Included in Seal and Gasket Kit.						

^{*} For repair or service to motors, always give the motor Model Number and any other data found on the Motor Model Plate.



			MOTOR AND HORSEPOWER		
Key No.	Part Description	No. Used	JMF-40L JMF3-40 1-1/2 HP	JMG-41L JMG3-41 2 HP	
1	Motor, 115/230V, 1 Phase	1	J218-601PKG	J218-883APKG	
1	Motor, 230/460V, 3 Phase	1	AP100FL	AP100GL	
2	Water Slinger	1	17351-0009	17351-0009	
3	Seal Plate	1	C3-52	C3-52	
4	Gasket, Seal Plate	1	C20-21C	C20-21C	
5	Shaft Seal	1	U109-6A	U109-6A	
6	Impeller, Single Phase	1	C105-114PC	C105-114PNA	
6	Impeller, Three Phase	1	C105-114PCA	C105-114PNA	
6A	Impeller Screw	1	C30-14SS	C30-14SS	
7	Volute Assembly with Wear Ring	1	C101-123	C101-123	
7A	Wear Ring	1	C23-19	C23-19	
8	Pipe Plug, 1/4" NPT Sq. Hd.	1	U78-57DT	U78-57DT	
9	Pipe Plug, 1/4" NPT Hex Hd.	3	U78-941ZPV	U78-941ZPV	
10	Base with Motor Pad	1	J104-9	J104-9	
10A	Motor Pad	1	C35-5S	C35-5S	
11	Stud, 3/8 - 16 x 1-13/16"	4	U30-35SS	U30-29	
12	Hex Nut, 3/8 - 16	4	U36-38ZP	U36-38ZP	
	SERVICE KI	Г			
	Seal and Gasket Kit	1	PP1700	PP1700	
	NOTICE: † Included in Seal and Gasket Kit.				

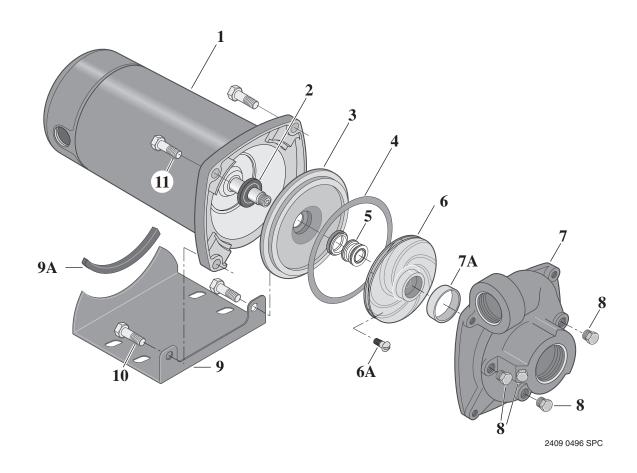
^{*} For repair or service to motors, always give the motor Model Number and any other data found on the Motor Model Plate.



REPAIR PARTS LIST – "JB" SERIES - HIGH HEAD

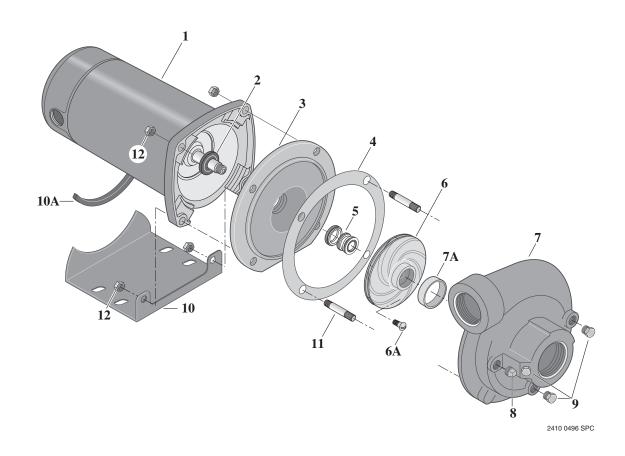
			MOTOR AND HORSEPOWER							
Key No.	Part Description	No. Used	JBHB-61S - 1/3 HP	JBHC-61S JBHC3-61S 1/2 HP	JBHD-62S JBHD3-62S 3/4 HP	JBHE-63S JBHE3-63S 1 HP	JBHF-51S JBHF3-51S 1-1/2 HP	JBHG-52S JBHG3-52S 2HP	JBHHG-53S JBHHG3-53S 2-1/2 HP	
1	Motor, 115/230V, 1 Phase	1	J218-582APKG	J218-582APKG	J218-590PKG	J218-596PKG	J218-601PKG	J218-883APKG	J218-628APKG	
1	Motor, , 230/460V, 3 Phase	1	-	AP100CL	AP100DL	AP100EL	AP100FL	AP100GL	AP100G5L	
†2	Water Slinger	1	17351-0009	17351-0009	17351-0009	17351-0009	17351-0009	17351-0009	17351-0009	
3	Seal Plate	1	C3-178	C3-178	C3-178	C3-178	C3-178	C3-181	C3-181	
†4	Gasket, Seal Plate	1	C20-121C	C20-121C	C20-121C	C20-121C	C20-121C	C20-122C	C20-122C	
†5	Shaft Seal	1	U109-6A	U109-6A	U109-6A	U109-6A	U109-6A	U109-6A	U109-6A	
6	Impeller, Single Phase	1	C5-256BA	C5-256BA	C5-256BAA	C5-254BA	C5-254BC	C5-257BB	C5-257B	
6	Impeller, Three Phase	1	-	C5-256BA	C5-256BAA	C5-254BA	C5-254BC	C5-257BB	C5-257B	
6A	Impeller Screw, Three Phase	1	C30-14SS	C30-14SS	C30-14SS	C30-14SS	C30-14SS	C30-14SS	C30-14SS	
7	Volute Assembly with Wear Ring	1	C101-284A	C101-284A	C101-284A	C101-284A	C101-284A	C101-264	C101-264B	
7A	Wear Ring	1	C23-27	C23-27	C23-27	C23-27	C23-27	C23-27	C23-27	
8	Pipe Plug, 1/4" NPT Hex Hd.	3	U78-941ZPV	U78-941ZPV	U78-941ZPV	U78-941ZPV	U78-941ZPV	U78-941ZPV	U78-941ZPV	
9	Base with Motor Pad	1	J104-9	J104-9	J104-9	J104-9	J104-9	J104-9	J104-9F	
9A	Motor Pad	1	C35-5S	C35-5S	C35-5S	C35-5S	C35-5S	C35-5S	C35-5S	
10	Hex Capscrew, 3/8" - 16 x 1" Lg.	2	-	-	-	-	-	U30-74ZP	U30-74ZP	
10	Socket Head Capscrew, 3/8" - 16 x 1" Lg. (JBHHG-53S)	2	_	_	_	_	_	_	U30-99SS	
10	Hex Capscrew, 3/8" - 16 x 1-1/4" Lg.	2	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	_	_	
11	Hex Capscrew, 3/8" - 16 x 1-1/4" Lg.	2	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	
11	Socket Head Capscrew, 3/8" - 16 x 1-1/4" Lg. (JBHHG-53S)	2	-	-	-	_	-	-	U30-104ZP	

^{*} For repair or service to motors, always give the motor Model Number and any other data found on the Motor Model Plate.



				MOTOR AND	HORSEPOWER		
Key No.	Part Description	No. Used	JBMB-56S - 1/3 HP	JBMC-56S JBMC3-56S 1/2 HP	JBMD-57S JBMD3-57S 3/4 HP	JBME-58S JBME3-58S 1 HP	
1	Motor, 115/230V, 1 Phase	1	J218-582APKG	J218-582APKG	J218-590PKG	J218-596PKG	
1	Motor, 230/460V, 3 Phase	1	_	AP100CL	AP100DL	AP100EL	
2	Water Slinger	1	17351-0009	17351-0009	17351-0009	17351-0009	
3	Seal Plate	1	N3-8	N3-8	N3-8	N3-8	
4	Gasket, Seal Plate	1	N20-26C	N20-26C	N20-26C	N20-26C	
5	Shaft Seal	1	U109-6A	U109-6A	U109-6A	U109-6A	
6	Impeller, Single Phase	1	J105-42MA	J105-42MA	J105-42LA	J105-42NA	
6	Impeller, Three Phase	1	_	J105-42MA	J105-42LA	J105-42NA	
6A	Impeller Screw	1	_	C30-6SS	C30-6SS	C30-6SS	
7	Volute Assembly with Wear Ring	1	C101-122E	C101-122E	C101-122E	C101-122	
7A	Wear Ring	1	N23-7	N23-7	N23-7	N23-7	
8	Pipe Plug, 1/4" NPT Hex Hd.	4	U78-941ZPV	U78-941ZPV	U78-941ZPV	U78-941ZPV	
9	Base with Motor Pad	1	J104-9	J104-9	J104-9	J104-9	
9A	Motor Pad	1	C35-5S	C35-5S	C35-5S	C35-5S	
10	Hex Capscrew, 3/8" - 16 x 1-1/2" Lg.	2	U30-76ZP	U30-76ZP	U30-76ZP	U30-76ZP	
11	Hex Capscrew, 3/8" - 16 x 1-1/4" Lg.	2	U30-75ZP	U30-75ZP	U30-75ZP	U30-75ZP	
			SERVICE KIT				
	Seal and Gasket Kit	1	PP1700	PP1700	PP1700	PP1700	
	NOTICE: † Included in Seal and Gasket Kit.						

^{*} For repair or service to motors, always give the motor Model Number and any other data found on the Motor Model Plate.



			N	MOTOR AND HORSEPOWER				
Key No.	Part Description	No. Used	JBMF-40S JBMF3-40S 1-1/2 HP	JBMG-41S JBMG3-41S 2 HP	JBMMG-59S JBMMG3-59S 2-1/2 HP			
1	Motor, 115/230V, 1 Phase	1	J218-601PKG	J218-883APKG	J218-628APKG			
1	Motor, 230/460V, 3 Phase	1	AP100FL	AP100GL	AP100G5L			
2	Water Slinger	1	17351-0009	17351-0009	17351-0009			
3	Seal Plate	1	C3-52	C3-52	C3-52			
4	Gasket, Seal Plate	1	C20-21C	C20-21C	C20-21C			
5	Shaft Seal	1	U109-6A	U109-6A	U109-6A			
6	Impeller, Single Phase	1	C105-79BA	C105-73BA	C105-80DA			
6	Impeller, Three Phase	1	C105-79BA	C105-73BA	C105-80DA			
6A	Impeller Screw	1	C30-14SS	C30-14SS	C30-14SS			
7	Volute Assembly with Wear Ring	1	C101-123	C101-123	C101-123B			
7A	Wear Ring	1	C23-19	C23-19	C23-19			
8	Pipe Plug, 1/4" NPT Sq. Hd.	1	U78-57DT	U78-57DT	U78-57DT			
9	Pipe Plug, 1/4" NPT Hex Hd.	3	U78-941ZPV	U78-941ZPV	U78-941ZPV			
10	Base with Motor Pad	1	J104-9	J104-9	J104-9F			
10A	Motor Pad	1	C35-5S	C35-5S	C35-5S			
11	Stud, 3/8 - 16 x 1-13/16"	4	U30-35SS	U30-35SS	U30-35SS			
12	Hex Nut, 3/8 - 16	4	U36-38ZP	U36-38ZP	U36-38ZP			
	SERVICE KIT							
	Seal and Gasket Kit	1	PP1700	PP1700	PP1700			
	NOTICE: † Included in Seal and Gasket Kit.							

^{*} For repair or service to motors, always give the motor Model Number and any other data found on the Motor Model Plate.

TROUBLE - CAUSES AND REMEDY

TROUBLE AND CAUSE	REMEDY				
FAILURE TO PUMP					
Pump not properly primed.	Make sure pump casing and suction line are full of water. See priming instructions.				
REDUCED CAPACITY AND/OR HEAD					
Air pockets or leaks in suction line.	Check suction piping.				
2. Clogged impeller.	2. Remove and clean.				
PUMP LOSES PRIME					
1. Air leaks in suction line.	Check suction piping				
Excessive suction lift and operating too near shut-off point.	2. Move pump nearer to water level.				
Water level drops while pumping, uncovering suction piping.	3. Check water supply. Add length of pipe to suction to keep submerged end under water.				
MECHANICAL TROUBLES AND NOISE					
Bent shaft and/or damaged bearings.	Take motor to authorized motor repair shop.				
Suction and/or discharge piping not properly supported and anchored.	See that all piping is supported to relieve strain on pump assembly.				

Limited Warranty

STA-RITE warrants to the original consumer purchaser ("Purchaser" or "You") of the products listed below, that they will be free from defects in material and workmanship for the Warranty Period shown below.

Product	Warranty Period
Water Systems Products — jet pumps, small centrifugal pumps, submersible pumps and related accessories	whichever occurs first: 12 months from date of original installation, or 18 months from date of manufacture
Pro-Source® Composite Tanks	5 years from date of original installation
Pro-Source [®] Steel Pressure Tanks	5 years from date of original installation
Pro-Source [®] Epoxy-Lined Tanks	3 years from date of original installation
Sump/Sewage/Effluent Products	12 months from date of original installation, or 18 months from date of manufacture

Our warranty will not apply to any product that, in our sole judgement, has been subject to negligence, misapplication, improper installation, or improper maintenance. Without limiting the foregoing, operating a three phase motor with single phase power through a phase converter will void the warranty. Note also that three phase motors must be protected by three-leg, ambient compensated, extra-quick trip overload relays of the recommended size or the warranty is void.

Your only remedy, and STA-RITE's only duty, is that STA-RITE repair or replace defective products (at STA-RITE's choice). You must pay all labor and shipping charges associated with this warranty and must request warranty service through the installing dealer as soon as a problem is discovered. No request for service will be accepted if received after the Warranty Period has expired. This warranty is not transferable.

STA-RITE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR CONTINGENT DAMAGES WHATSOEVER. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE FOREGOING WARRANTIES SHALL NOT EXTEND BEYOND THE DURATION EXPRESSLY PROVIDED HEREIN. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on the duration of an implied warranty, so the above limitations or exclusions may not apply to You. This warranty gives You specific legal rights and You may also have other rights which vary from state to state.

This Limited Warranty is effective June 1, 2011 and replaces all undated warranties and warranties dated before June 1, 2011.

STA-RITE INDUSTRIES

293 Wright Street • Delavan, WI U.S.A. 53115
Phone: I-888-782-7483 • Fax: I-800-426-9446 • Web Site: sta-rite.com