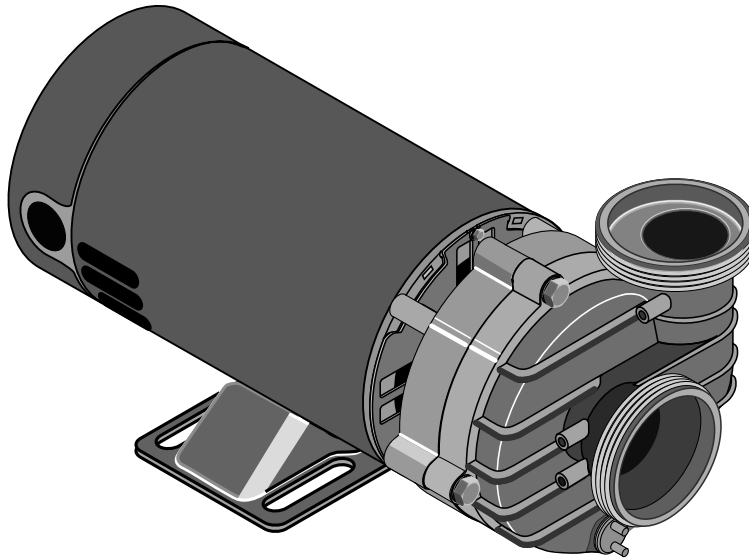


STA-RITE®

DURA-JET™ SPA PUMP

O W N E R ' S M A N U A L



INSTALLATION, OPERATION & PARTS

For Model Information See Page 2.

This manual should be furnished to the end user of this pump; its use will reduce service calls, chance of injury, and will lengthen pump life.

Sta-Rite Pool/Spa Group

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S377 (Rev. 9/12/03)

DURA-JET SPA PUMP

To avoid unneeded service calls, prevent possible injuries, and get the most out of your pump, READ THIS MANUAL CAREFULLY!

The Sta-Rite 'DJ' Series Spa Pump:

- Is designed to circulate hot water in spas and hot tubs.
- Is an excellent performer; durable, reliable.

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MODELS

Single Speed					
1HP	1-1/2 HP	2 HP	3 HP	4 HP SPL	5 HP
DJAEA-0007 5DJAE-0101 5DJAE-0001	DJAF-0007 DJAF-0052 DJAF-0072 DJAF-0097 DJAF-0172 5DJAFB-0097 5DJAFB-0101 5DJAFB-0001	DJAGB-0091 DJAGB-0191 DJAGC-0007 5DJAGB-0103 5DJAGB-0003	DJAF-3003D DJAF-3103D DJAF-9003D DJAF-9103D DJAAGB-0007 DJAHB-0097	DJAGB-0051M DJAGB-0151M DJAGB-9051M DJAGB-9151M	DJAHB-0041 DJAHB-0141 DJAHB-3141
		2-1/2 HP DJAAGB-0091	3.6 HP SPL DJAF-0051M DJAF-0151M	4.2 HP SPL DJAGB-0021H DJAGB-0121H DJAGB-0151 DJAAGB-0151	6.1 HP SPL DJAHB-0051 DJAHB-0151 DJAHB-0021H DJAHB-0121H
Two Speed					
1HP	1-1/2 HP	2 HP	3 HP	4 HP SPL	5 HP SPL
DJAYEA-0001 DJAYEA-0003 DJAYEA-0007 DJAYEA-0061 DJAYEA-0062 DJAYEA-0062A DJAYEA-0082 DJAYEA-0112 DJAYEA-0152 DJAYEA-0162A DJAYEA-0182 DJAYEA-3003 DJAYEA-3022 DJAYEA-3052M DJAYEA-3062 DJAYEA-3097 DJAYEA-3103 DJAYEA-3113 DJAYEA-3152 DJAYEA-3152M DJAYEA-3197 DJAYEB-0001	DJAYFA-0001 DJAYFA-0007 DJAYFA-0062A DJAYFA-0082 DJAYFA-0152 DJAYFA-0162 DJAYFA-0162A DJAYFA-0182 DJAYFA-3022 DJAYFA-3022H DJAYFA-3062 DJAYFA-3097 DJAYFA-3122 DJAYFA-3122H DJAYFA-3152 DJAYFA-3162 DJAYFA-9022 DJAYFA-9122 DJAYFB-0002 DJAYFB-0003 DJAYFB-0013 DJAYFB-0051M DJAYFB-0061 DJAYFB-0113 DJAYFB-0151M DJAYFB-0161 DJAYFB-3003D DJAYFB-3093 DJAYFB-3103D DJAYFB-3113 DJAYFB-9003D DJAYFB-9103D DJAYFB-9113 5DJAYFB-0097 5DJAYFB-3097 5DJAYEB-0001 5DJAYEB-0101 5DJAYFB-3007 5DJAYFB-3097	DJAYGB-0002 DJAYGB-0003 DJAYGB-0004 DJAYGB-0007 DJAYGB-0161 DJAYGB-3021 DJAYGB-3051MB DJAYGB-3061 DJAYGB-3092 DJAYGB-3121 DJAYGB-3151MB DJAYGB-3161 DJAYGB-3162 DJAYGB-3192 DJAYGB-9051MB DJAYGB-9151MB 5DJAYGB-0103 5DJAYGB-0003	DJAYGB-0007 DJAAYGB-3097 DJAYHB-0001 DJAYHB-0041 DJAYHB-0057 DJAYHB-0097 DJAYHB-0141 DJAYHB-0161 DJAYHB-3021 DJAYHB-3041 DJAYHB-3061 DJAYHB-3121 DJAYHB-3141 DJAYHB-3161	DJAAYGB-0013 DJAAYGB-0113 DJAAYGB-3003 DJAAYGB-3103 DJAAYGB-3113 DJAAYGB-9003 DJAAYGB-9013 DJAAYGB-9103 DJAAYGB-9113	DJAYHB-0051M DJAYHB-0151M
		2-1/2 HP DJAAYGB-0002 DJAAYGB-0051M DJAAYGB-0161 DJAAYGB-3021 DJAAYGB-3061 DJAAYGB-3092 DJAAYGB-3121 DJAAYGB-3161	3.6 HP SPL DJAYGB-0013 DJAYGB-0113 DJAYGB-3013 DJAYGB-3113 DJAYGB-9013 DJAYGB-9113	4.2 HP SPL DJAYGB-0151 DJAYGB-3051 DJAYGB-3151 DJAYGB-3021H DJAYGB-3121H DJAAYGB-0151 DJAAYGB-3051 DJAAYGB-3151	6.1 HP SPL DJAYHB-3021H DJAYHB-3051 DJAYHB-3121H DJAYHB-3151
				4.8 HP SPL DJAAYGB-0051M DJAAYGB-0151M DJAYGB-9051M DJAYGB-9151M	

IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions with this equipment, including the following.

⚠ WARNING To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

⚠ CAUTION This pump is for use with permanently installed pools and may also be used with hot tubs and spas if so marked. Do not use with storable pools. A permanently installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it may be readily disassembled for storage and reassembled to its original integrity.

SAVE THESE INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS!

⚠ This is the safety alert symbol. When you see this symbol on your system or in this manual, look for one of the following signal words and be alert to the potential for personal injury.

⚠ DANGER warns about hazards that **will** cause death, serious personal injury, or major property damage if ignored.

⚠ WARNING warns about hazards that **can** cause death, serious personal injury, or major property damage if ignored.

⚠ CAUTION warns about hazards that **will** or **can** cause minor personal injury or property damage if ignored.

NOTICE indicates special instructions not related to hazards.

Carefully read and follow all safety instructions in this manual and on equipment. Keep safety labels in good condition; replace if missing or damaged.

⚠ WARNING **Incorrectly installed or tested equipment may fail, causing severe injury or property damage.**

Hazardous pressure

Read and follow instructions in owner's manual when installing and operating equipment. Have a trained pool professional perform all pressure tests.

1. Do not connect system to a high pressure or city water system.
2. Use equipment only in a pool or spa installation.
3. Trapped air in system can cause explosion. **BE SURE** all air is out of system before operating or testing equipment.

Before pressure testing, make the following safety checks:

- Check all clamps, bolts, lids, and system accessories before testing.
- Release all air in system before testing.
- Water pressure for test must be less than 25 PSI (172 kPa).
- Water Temperature for test must be less than 100° F (38° C).
- Limit test to 24 hours. After test, visually check system to be sure it is ready for operation. Remove trap lid and retighten hand tight only.

NOTICE: These parameters apply to Sta-Rite equipment only. For non-Sta-Rite equipment, consult manufacturer.

INSTALLATION

Installation and wiring of pump should only be done by qualified, licensed personnel.

Pump mount must:

Be Solid - Level - Rigid - Vibration free. (To reduce vibration and pipe stress, bolt pump to mount.)

Be installed with pump suction inlet below water level at all times (this allows pump to prime).

Be installed with pump discharge below water level at all times (to avoid trapped air in discharge line).

Allow discharge line to be level or slope slightly up to heater, spa, or pool.

Have adequate drainage to prevent flooding.

Be protected from excess moisture.

Allow adequate access for servicing pump and piping.

Ventilation:

Provide adequate ventilation to prevent motor overheating.

For continuous running, motor hot air exhaust must be able to escape motor compartment.

Piping:

Use flexible or rigid PVC pipe for connections to pump.

Suction/discharge piping gate valves will allow removal for servicing.

Use at least 1-1/2" IPS pipe.

Fittings restrict flow; for best efficiency use fewest possible fittings.

Pump will not prime if suction pipe leaks.

Unions are provided. Use as follows for leak-free connections to pump:

1. 'O' Ring and sealing surfaces must be clean.
2. Assemble handtight only! (NO WRENCHES!)
3. NO pipe compound or Teflon tape on unions.
4. Bond pipe to unions with PVC cement.

▲WARNING Use PVC cement only in a well ventilated area away from flame; FOLLOW MANUFACTURER'S INSTRUCTIONS!

Spa Fittings:

Size and number of jets will have a major effect on jet action.

Typical installations use up to four 7/8" or 3/4" diameter jets or up to seven 1/2" diameter jets.

Spa fittings must meet International Association of Plumbing and Mechanical Officials (IAPMO) standards. Use only non-entrapping suction fittings or double suction.

ELECTRICAL

▲WARNING Hazardous voltage. Can shock, burn, or cause death. Ground pump before connecting to power supply.

▲ Ground motor before connecting to electrical power supply! Failure to ground pump motor can cause serious 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.

▲ GFCI tripping indicates an electrical problem. If GFCI trips and will not reset, have a qualified electrician inspect and repair electrical system.

▲ Exactly match supply voltage to nameplate voltage (115 Volt or 230 Volt single phase only)! Incorrect voltage can cause fire or seriously damage motor and voids warranty!

Grounding:

Install, ground, and wire motor according to local or National Electrical Code requirements.

Permanently ground motor; use size and type wire required by code.

Ground connection must be made to green grounding terminal under motor canopy or access plate.

Connect motor ground terminal to electrical service ground.

Install and bond pump according to local codes and ordinances; use bonding lug on motor (see Figure 1). Use solid copper conductor No. 8 AWG (8.4mm²) or larger.

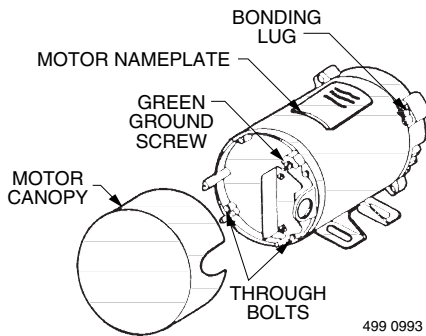


Figure 1: Typical ground screw and bonding lug locations.

Wiring:

See the wiring diagram on the motor housing for wiring connection information. Pump must be permanently connected to circuit. Tables IA and IB, Pages 6 and 7, give correct wire and circuit breaker sizes for the pump alone. If other lights or appliances are also on the same circuit, be sure to add their amp loads to pump amp load before figuring wire and circuit breaker sizes. (If unsure how to do this or if this is confusing, consult a licensed electrician.) Use the load circuit breaker as the master on-off switch.

Install a Ground Fault Circuit Interrupter (GFCI) in circuit; it will sense a short-circuit to ground and disconnect power before it becomes dangerous to pool users. For size of GFCI required and test procedures for GFCI, see manufacturer's instruction.

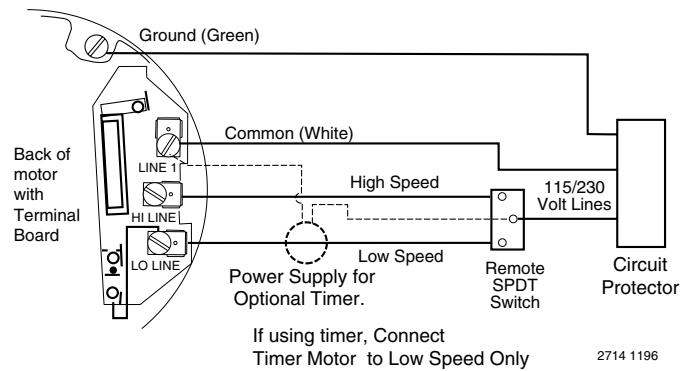
In case of power outage, check GFCI for tripping (which will prevent normal pump operation). Reset if necessary.

NOTICE: If you do not use conduit when wiring motor, **be sure** to seal wire opening on end of motor to prevent dirt, bugs, etc., from entering.

Voltage:

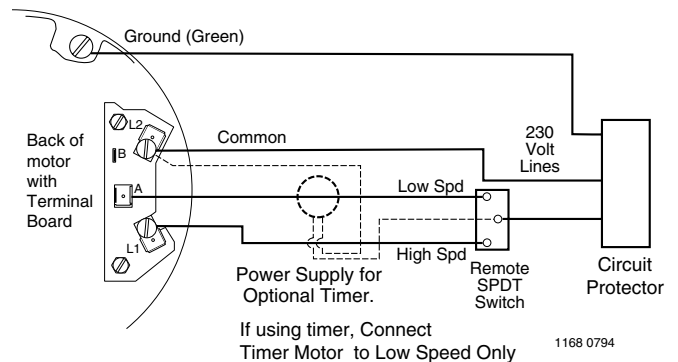
Voltage at motor must be not more than 10% above or below motor nameplate rated voltage or motor may over-heat, causing overload tripping and reduced component life. If voltage is less than 90% or more than 110% of rated voltage when motor is running at full load, consult power company.

⚠ Values given in tables on Pages 6 and 7 are for PUMP MOTOR ONLY. If additional spa accessories are installed on pump motor circuit (heater, blower, etc.), include their amperage draw when figuring wire and circuit breaker sizes.



Switch and timer minimum amp rating must equal Branch Fuse Rating given in "Recommended Fusing and Wiring Data" table.

Figure 2: Remote switch for 2-Speed pumps (-3115, -9115 models)



Minimum switch and timer amp rating must equal Branch Fuse Rating given in "Recommended Fusing and Wiring Data" table.

Figure 3: Remote switch for 2-Speed pumps (-0001, -0002, -0003, -0004 models)

TABLE IA – RECOMMENDED CIRCUIT BREAKER SIZE AND WIRING DATA

Model No.	Volts	Full Load Amps	Branch Circuit Breaker Amp Rating	AWG (mm²) Wire Gauge Size			Temp Deg. C.
				Dist in Ft. (M) - Service to Motor			
				0-100 (0-30)	101-200 (31-60)	201-300 (61-90)	
Single Speed Pumps:							
5DJAFB-0097	220-240/50/1	7.6	15	14(2)	14(2)	12(3)	90
5DJAFB-0001, -0101	220-240/50/1	5.6	15	14(2)	14(2)	12(3)	90
5DJAEB-0001, -0101	220-240/50/1	5.5	15	14(2)	10(5.5)	8(8.4)	90
5DJAGB-0001, -0101	220-240/50/1	8.7	15	14(2)	14(2)	12(3)	90
DJAEA-0007	115/60/1	12.0	15	14(2)	10(5.5)	8(8.4)	90
DJAFB-0007,-0097	115/230/60/1	16.0/8.0	20/15	12/14(3/2)	8/14(8.4/2)	6/14(14/2)	90
DJAFB-0051M,-0151M	115/230/60/1	16.4/8.2	25/15	12/14(3/2)	8/14(8.4/2)	6/14(14/2)	90
DJAFB-0052,-0072,-0172	115/230/60/1	16.4/8.2	25/15	12/14(3/2)	8/14(8.4/2)	6/14(14/2)	90
DJAFB-3003D,-3103D	115/230/60/1	16.4/8.2	25/15	12/14(3/2)	8/14(8.4/2)	6/14(14/2)	90
DJAFB-9003D,-9103D	115/230/60/1	16.4/8.2	25/15	12/14(3/2)	8/14(8.4/2)	6/14(14/2)	90
DJAGB-0021H,-0121H	230/60/1	11.4	15	14(2)	14(2)	12(3)	90
DJAGB-0051M,-0151M	230/60/1	11.4	15	14(2)	14(2)	12(3)	90
DJAGB-0091,-0191	230/60/1	11.4	15	14(2)	14(2)	12(3)	90
DJAGB-0151	230/60/1	11.4	15	14(2)	14(2)	12(3)	90
DJAGB-9051M,-9151M	230/60/1	11.4	15	14(2)	14(2)	12(3)	90
DJAGC-0007	115/230/60/1	20.0/10.0	25/15	10/14(5.5/2)	8/14(8.4/2)	6/12(14/3)	90
DJAAGB-0091,-0151	230/60/1	12.1	20	12(3)	12(3)	10(5.5)	90
DJAAGB-0007	230/60/1	12.0	15	14(2)	14(2)	12(3)	90
DJAHB-0021H,-0121H	230/60/1	12.0	15	14(2)	14(2)	12(3)	90
DJAHB-0041,-0141	230/60/1	12.0	15	14(2)	14(2)	12(3)	90
DJAHB-0051,-0151	230/60/1	12.0	15	14(2)	14(2)	12(3)	90
DJAHB-0097	230/60/1	12.0	15	14(2)	14(2)	12(3)	90
DJAHB-3141	230/60/1	12.0	15	14(2)	14(2)	12(3)	90
Two Speed Pumps:							
5DJAYFB-0097,-3097	220-240/50/1	8.5/2.6	15	14(2)	14(2)	12(3)	90
5DJAYEB-0001,-0101	230/50/1	5.7/1.6	15	14(2)	14(2)	14(2)	90
5DJAYFB-3007,-3097	220-240/50/1	8.5/2.6	15	14(2)	14(2)	12(3)	90
DJAYEA-0001,-0003	115/60/1	11.6/3.5	15	14(2)	10(5.5)	8(8.4)	90
DJAYEA-0007	115/60/1	11.0/2.9	15	14(2)	10(5.5)	8(8.4)	90
DJAYEA-0061	115/60/1	12.0/3.3	15	14(2)	10(5.5)	8(8.4)	90
DJAYEA-0062	115/60/1	10.4/3.6	15	14(2)	10(5.5)	8(8.4)	90
DJAYEA-0082,-0182	115/60/1	11.0/2.9	15	14(2)	10(5.5)	8(8.4)	90
DJAYEA-0112	115/60/1	10.4/3.8	15	14(2)	10(5.5)	8(8.4)	90
DJAYEA-0152,-3052M	115/60/1	10.4/3.6	15	14(2)	10(5.5)	8(8.4)	90
DJAYEA-3003,-3103	115/60/1	10.4/3.6	15	14(2)	10(5.5)	8(8.4)	90
DJAYEA-3022,-3062	115/60/1	10.4/3.6	15	14(2)	10(5.5)	8(8.4)	90
DJAYEA-3097,-3197	115/60/1	11.0/2.9	15	14(2)	10(5.5)	8(8.4)	90
DJAYEA-3113	115/60/1	10.4/3.6	15	14(2)	10(5.5)	8(8.4)	90
DJAYEA-3152,-3152M	115/60/1	10.4/3.6	15	14(2)	10(5.5)	8(8.4)	90
DJAYEB-0001	230/60/1	6.2/1.7	15	14(2)	14(2)	14(2)	90
DJAYFA-0001	115/60/1	13.0/3.7	20	12(3)	10(5.5)	8(8.4)	90
DJAYFA-0007,-3097	115/60/1	11.0/2.9	15	14(2)	10(5.5)	8(8.4)	90
DJAYFA-0062A,-0082,-0182	115/60/1	13.0/3.7	20	12(3)	10(5.5)	8(8.4)	90
DJAYFA-0152,-3152	115/60/1	13.0/3.7	20	12(3)	10(5.5)	8(8.4)	90
DJAYFA-0162,-3062,-3162	115/60/1	13.0/3.7	20	12(3)	10(5.5)	8(8.4)	90
DJAYFA-0162A	115/60/1	13.0/3.7	20	12(3)	10(5.5)	8(8.4)	90
DJAYFA-3022,-3022H	115/60/1	13.0/3.7	20	12(3)	10(5.5)	8(8.4)	90
DJAYFA-3122,-3122H	115/60/1	13.0/3.7	20	12(3)	10(5.5)	8(8.4)	90
DJAYFA-9022,-9122	115/60/1	13.0/3.7	20	12(3)	10(5.5)	8(8.4)	90
DJAYFB-0002,-0003,0007	230/60/1	8.6/2.1	15	14(2)	14(2)	12(3)	90
DJAYFB-0013,-0113	230/60/1	7.2/2.4	15	14(2)	14(2)	14(2)	90
DJAYFB-0051M,-0151M	230/60/1	7.2/2.4	15	14(2)	14(2)	14(2)	90
DJAYFB-0061,-0161	230/60/1	7.2/2.4	15	14(2)	14(2)	14(2)	90
DJAYFB-3003D,-3093D	230/60/1	7.2/2.4	15	14(2)	14(2)	14(2)	90
DJAYFB-3103D,	230/60/1	7.2/2.4	15	14(2)	14(2)	14(2)	90
DJAYFB-3113,-9113	230/60/1	7.2/2.4	15	14(2)	14(2)	14(2)	90
DJAYFB-9003D,-9103D	230/60/1	7.2/2.4	15	14(2)	14(2)	14(2)	90

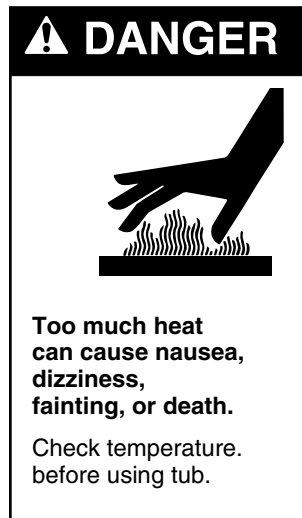
NOTE: The second character of the model number suffix (the four characters following the dash) on pumps packed in bulk will be a "1" (for example, – 3115). Identical pumps packed individually will have a suffix with a "0" replacing the "1" (for example – 3015). When replacing a pump having a suffix "-X1XX", order the same model with suffix "-X0XX". When replacing a pump having a suffix "-X0XX", do not change the suffix.

TABLE IB – RECOMMENDED CIRCUIT BREAKER SIZE AND WIRING DATA

Model No.	Volts	Full Load Amps	Branch Circuit Breaker Amp Rating	AWG (mm²) Wire Gauge Size			Temp Deg. C.
				Dist in Ft. (M) - Service to Motor			
				0-100 (0-30)	101-200 (31-60)	201-300 (61-90)	
Two Speed Pumps:							
5DJAYGB-0003,-0103	230/50/1	9.0/1.9	15	14(2)	14(2)	12(3)	90
DJAYGB-0002,-0004	230/60/1	11.2/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-0003,-0013,-3013	230/60/1	8.5/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-0007	230/60/1	10.5/6.2	15	14(2)	14(2)	12(3)	90
DJAYGB-0051M,-0151M	230/60/1	8.5/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-0151	230/60/1	11.2/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-0161	230/60/1	8.5/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-3021,-3121	230/60/1	8.5/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-3021H	230/60/1	11.2/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-3051,-3151	230/60/1	11.2/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-3051MB,-3151MB	230/60/1	8.5/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-3061,-3113	230/60/1	8.5/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-3092,-3192	230/60/1	8.5/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-3121,-3161	230/60/1	8.5/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-3121H,-3162	230/60/1	11.2/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-9013,-9113	230/60/1	8.5/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-9051M,-9151M	230/60/1	8.5/3.0	15	14(2)	14(2)	12(3)	90
DJAYGB-9051MB,-9151MB	230/60/1	8.5/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-0002	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-0007,-3097	230/60/1	12.0/3.5	15	14(2)	14(2)	12(3)	90
DJAAYGB-0013,-0113,-3113	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-0051M,-0151M	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-0151,-0161	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-3003,-3103	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-3021,-3121	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-3051,-3151	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-3061,-3161	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-3092	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-9003,-9103	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-9013,-9113	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAAYGB-9051M,-9151M	230/60/1	10.7/3.0	15	14(2)	14(2)	12(3)	90
DJAYHB-0001,-0161	230/60/1	12.0/3.7	15	14(2)	14(2)	12(3)	90
DJAYHB-0041,-0141	230/60/1	12.0/3.7	15	14(2)	14(2)	12(3)	90
DJAYHB-0057,-0097	230/60/1	12.0/3.5	15	14(2)	14(2)	12(3)	90
DJAYHB-3021,-3121	230/60/1	12.0/3.7	15	14(2)	14(2)	12(3)	90
DJAYHB-3041,-3141	230/60/1	12.0/3.7	15	14(2)	14(2)	12(3)	90
DJAYHB-3061,-3161	230/60/1	12.0/3.7	15	14(2)	14(2)	12(3)	90
DJAYHB-0051M,-0151M	230/60/1	12.0/3.7	15	14(2)	14(2)	12(3)	90
DJAYHB-3021H,-3121H	230/60/1	12.0/3.7	15	14(2)	14(2)	12(3)	90
DJAYHB-3051,-3151	230/60/1	12.0/3.7	15	14(2)	14(2)	12(3)	90

NOTE: The second character of the model number suffix (the four characters following the dash) on pumps packed in bulk will be a “1” (for example, – 3115). Identical pumps packed individually will have a suffix with a “0” replacing the “1” (for example – 3015). When replacing a pump having a suffix “-X1XX”, order the same model with suffix “-X0XX”. When replacing a pump having a suffix “-X0XX”, do not change the suffix.

OPERATION



Priming Pump:

⚠ CAUTION NEVER run pump dry! Running pump dry may damage seals, causing leakage and flooding! Fill pump with water before starting motor.

⚠ Do not add chemicals to spa system directly in front of pump suction. Adding undiluted chemicals may damage pump and voids warranty.

Open gate valves before starting system.

Pump will prime itself when used in flooded suction system.

Be sure to release all air from filter and piping system; see spa/filter owner's manual.

On two speed models, low speed is used for filtration and heating; high speed provides therapy jet action.

⚠ Do not block pump suction! To do so with body may cause severe or fatal injury. Small children using spa must ALWAYS have close adult supervision!

- Tub should have dual suction outlets to prevent body or hair entrapment.
- Use only tub suction fittings certified to meet ASME/ANSI standard A112.19.8M-1987.

NOTICE: Do not block jets! To do so may flood area causing damage to equipment and water damage to surrounding area.

Water:

Keep water level at least two inches above bottom of skimmer opening when system is not in use. Failure to do so can allow air to enter system, causing pump to lose its prime.

Keep water temperature at 104°F (40°C) or below.

Keep an accurate thermometer in spa; check it before getting in.

Age or health conditions may require a lower temperature; consult a physician for more information.

If in doubt, start at a lower temperature and gradually increase it according to your experience, but do not increase it above 104°F.

⚠ Do not use or allow the use of the tub by anyone using alcohol or drugs. The effects of hot water, alcohol and/or drugs can cause dizziness and falling, loss of consciousness, or heart attack.

⚠ A long bath in hot water may cause hyperthermia (too much heat in the body) which can be fatal.

Some symptoms of hyperthermia are:

- Nausea
- Dizziness
- Fainting

If these symptoms appear while in the spa, GET OUT AT ONCE!

Cool the body at once with cold towels or a cool shower. Call a doctor if symptoms do not go away.

PUMP SERVICE

⚠ WARNING Hazardous voltage. Can shock, burn, or cause death. Disconnect power before working on pump or motor.

Pump should only be serviced by qualified personnel.

⚠ To avoid dangerous or fatal electrical shock hazard, disconnect power to motor before working on pump or motor!

No lubrication or regular maintenance are needed.

If shaft seal is damaged, repair as follows:

Removing Old Seal:

1. Disconnect power to pump motor.
2. Drain tub and pump; disconnect unions to allow access to pump.
3. Remove four bolts holding front plate to seal plate; remove front plate.
4. Remove shaft cover or motor canopy; using screwdriver in slot on motor end of shaft or wrench on flats of shaft extension, hold pump shaft and unscrew impeller from shaft (turn counterclockwise). Rotating half of seal will come off with impeller.
5. Carefully remove rotating part of seal from impeller sleeve by pulling and turning on sealing washer and spring (Figure 4). Do not damage impeller surface where drive ring seats and seals.



Figure 4

6. Carefully remove four motor throughbolts from seal plate (Figure 5); remove seal plate and use a screwdriver to tap ceramic seat out from the rear (Figure 6). Do not damage seal cavity in seal plate.



Figure 5



Figure 6

7. Clean cavity from which seal was removed and clean motor shaft.
8. Inspect water slinger for damage. Replace if needed.

Installing New Seal:

1. Ceramic seat must be clean and free of dirt, grease, dust, etc. Wet rubber cup gasket of ceramic seat with **small** amount of water; press into cavity firmly and squarely with finger pressure (Figure 7).



Figure 7

2. If ceramic seat will not locate properly, remove it, place **face up** on bench, and reclean cavity. Ceramic seat should now locate.
3. Seal must be free of dirt, grease, grit, scratches or chips; be sure impeller sleeve is clean. Slide seal assembly, rubber drive ring first, onto impeller sleeve until drive ring bottoms on impeller back shroud.
4. Slip water slinger over motor shaft; remount seal plate. Torque throughbolts to 25 inch-lbs. (29 cm-kg).
5. Screw impeller onto motor shaft until it seats against motor shaft shoulder. Work water slinger over end of impeller sleeve so it rides on sleeve (Figure 8).



Figure 8

6. Remount front plate to seal plate.
7. Reconnect unions; tighten **hand tight only**.

STORAGE/ WINTERIZING

⚠ CAUTION To prevent damage to components from fumes, store spa chemicals away from pump and spa. If possible, store chemicals in another room.

⚠ Allowing pump to freeze will damage pump and void warranty!

Drain all water from pump and piping when expecting freezing temperatures or when storing pump for a long time (see instructions below).

Keep motor dry and covered during storage.

To avoid condensation/corrosion problems, **do not** cover or wrap pump with plastic.

For outdoor/unprotected pump installations:

1. Enclose entire system in a weatherproof enclosure.
2. To avoid corrosion damage, allow ventilation; **do not** wrap system in plastic.

Follow spa manufacturer's directions for storage of spa.

Draining Pump:

⚠ WARNING Hazardous voltage. Can shock, burn, or cause death. Disconnect power before working on pump or motor.

⚠ To avoid dangerous or fatal electrical shock hazard, turn OFF power to motor before draining pump.

NOTICE: Do not use anti-freeze solutions (except propylene glycol) in your spa system. Most anti-freezes are highly toxic and may damage plastic components in the system. Propylene glycol is non-toxic and will not damage pump components.

1. Close all valves on suction and return piping.
2. Remove drain plug in bottom of front plate.
3. Drain all piping and storage tanks exposed to freezing temperatures.
4. Be sure no airlocks are holding water in system.
5. Consult spa and filter owner's manuals for instructions about draining the rest of the system.

NOTICE: We recommend a drain plug or valve at the low point of the spa piping to help drain spa system.

6. Before restarting, replace all plugs and make sure all pipe connections are tightly sealed.

Startup for Winterized Equipment:

1. Remove any temporary weather protection placed around system for shutdown.
2. Follow filter manufacturer's instructions for reactivation of the filter.
3. Inspect all electrical wiring for damage or deterioration over the shutdown period. Have a qualified serviceman repair/replace wiring as needed. Inspect and tighten all watertight connections.
4. Open all valves in suction and return piping.
5. Remove all winterizing plugs in spa system.
6. Remove all anti-freeze solutions from system.
7. Close all drain valves and replace all drain plugs in spa system.
8. Fill spa with water to proper level (see spa manufacturer's instructions).

TROUBLESHOOTING GUIDE

⚠ WARNING Read and understand safety and operating instructions in this manual before doing any work on pump!

A. PUMP DOES NOT OPERATE

1. Check GFCI for proper operation according to GFCI manufacturer's instructions.
2. Check for plugged impeller. Follow disassembly/assembly instructions under "Pump Service", Page 9.
3. Consult dealer/installer or service representative.

B. IMPROPER JET ACTION

1. Check for blocked fittings. Blocked fittings will cause poor flow and poor jet action.
2. Consult dealer/installer or service representative.

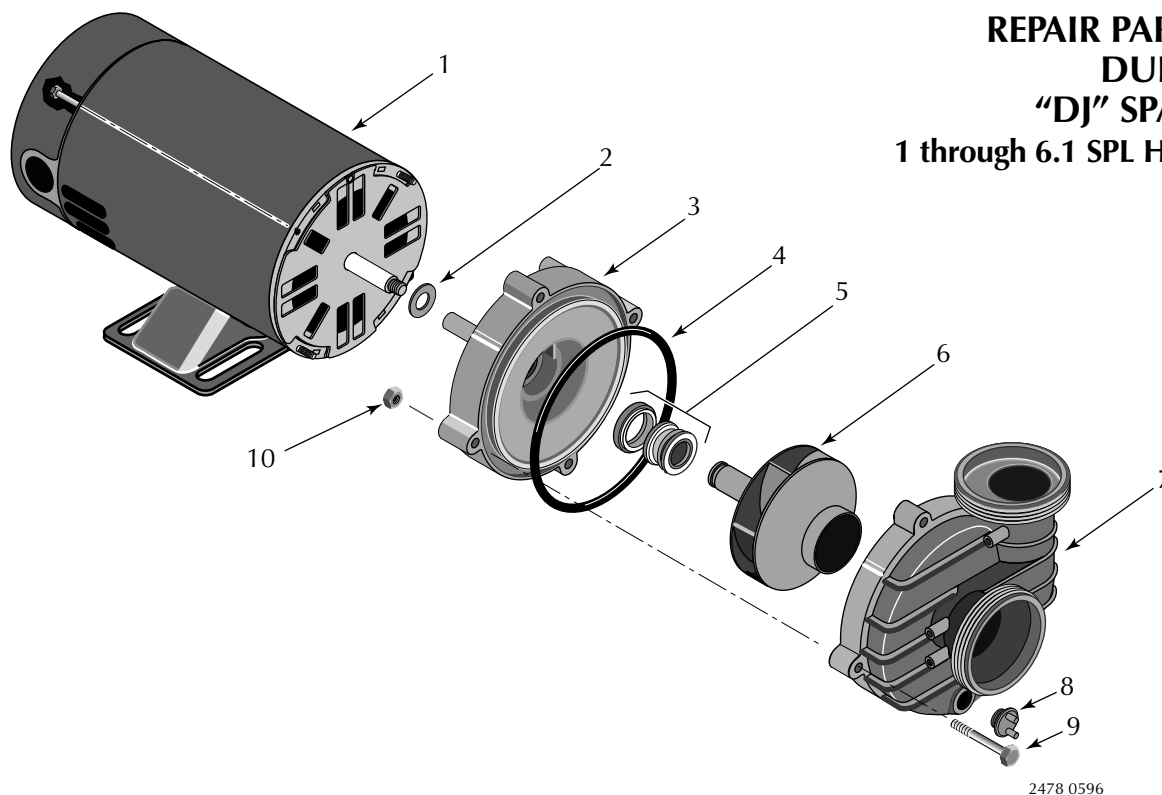
C. EXCESSIVE AIR IN SYSTEM – PUMP LOSES PRIME

1. Make sure water level in spa is at least 2" (51 mm) above top of jets with system not operating.
2. Make sure there are no leaks in suction piping.
3. Make sure there is no vortex (whirlpool) at the suction.
4. Consult dealer/installer or service representative.

D. CIRCUIT BREAKER IN HOME PANEL TRIPS REPEATEDLY

1. Breaker must be of adequate capacity.
2. For GFCI breaker: test according to GFCI manufacturer's instructions.
3. Make sure no other lights and appliances are on circuit.
4. Consult dealer/installer or service representative.

REPAIR PARTS LIST
DURA-JET™
"DJ" SPA PUMP
1 through 6.1 SPL HP Models



Key No.	Description	Qty.	Part Number
1	Motor	1	Chart Page 13
2	Slinger	1	17351-0009
3	Seal Plate	1	17400-0001
4	O-Ring	1	35505-7430
5	Seal*	1	37400-0028S
6	Impeller	1	Chart Page 13
7	Front Plate/Volute	1	Chart Page 13
8	Drain Plug	1	U178-940P
9	Screw, 1/4-20x1-1/2"	4	30787-0004
10	Nut, Hex 1/4-20, Brass	4	35402-0071
•	Nameplate	1	U33-174
•	Decal, "For use with pools and spas..."	1	U27-635
•	Voltage Label - 230 Volts	1	U27-68
•	Voltage Label - 115 Volts	1	U27-67
•	Voltage Label - 115/230 Volts	1	U27-153
•	Warning Tag	1	C63-12
•	Warning Tag	1	61002-0002
•	Cord Assembly	1	Chart Page 13

For quick disconnect pipe connections, purchase separately Part No. 77703-0105 and Part No. 77703-0108.

Kit Includes:
 2 #38405-4094 2" Union Collars
 2 #35505-1244 O-Ring
 1 #38405-4095 2" Slip Adapter
 1 #38405-4096 1-1/2" Slip Adapter (77703-0105 only).

• Not illustrated.

* Models DJAYFA-0062A, -0162A use Seal Part No. 37400-0028.

Parts are common to all models listed except as noted;

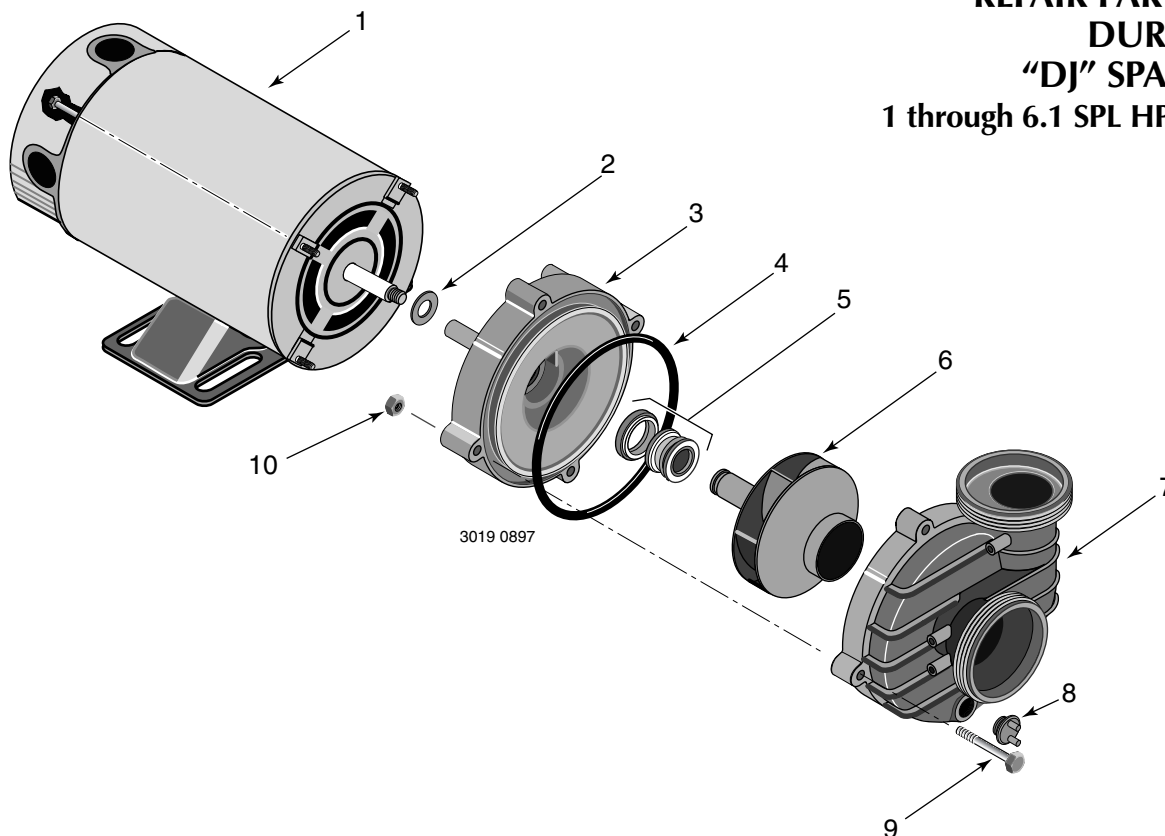
Motor (Key No. 1), Impeller (Key No. 6), and Volute (Key No. 7) are listed below.

Model No.	HP	Motor No. (Key No. 1)	Impeller No. (Key No. 6)	Volute (Key No. 7)	Cord Assembly
115 Volt Single Speed					
DJAEA-0007	1	62003-2059	17400-0120	17400-0105	
115/230 Volt Single Speed					
DJAFB-0007,-0097	1.5	62003-2063	17400-0121	17400-0105	31953-0119
DJAFB-0052	1.5	A910FLL	17400-0121	17400-0105	31953-0107
DJAFB-0072,-0172	1.5	A910FLL	17400-0121	17400-0105	31953-0123
DJAGC-0007	2	62003-2065	17400-0122	17400-0105	
DJAFB-3003D,-3103D,-9003D,-9103D	3	A910FLL	17400-0121	17400-0106	
DJAFB-0051M,-0151M	3.6 SPL	A910FLL	17400-0121	17400-0105	31953-0122
230 Volt Single Speed					
DJAGB-0091,-0191	2	62003-2015	17400-0122	17400-0105	31953-0119
DJAGB-0091,-0151	2.5	62003-2016	17400-0123	17400-0105	31953-0119
DJAGB-0007	3	62003-2067	17400-0123	17400-0105	
DJAGB-0097	3	62003-2067	17400-0135	17400-0105	31953-0119
DJAGB-0051M,-0151M,-9051M,-9151M	4.0 SPL	62003-2015	17400-0122	17400-0105	31953-0122
DJAGB-0021H,-0121H,-0151	4.2 SPL	62003-2015	17400-0122	17400-0105	31953-0107
DJAGB-0041,-0141	5	62001-1067	17400-0135	17400-0105	31953-0102
DJAGB-3141	5	62001-1067	17400-0135	17400-0105	31953-0103
DJAGB-0051,-0151	6.1 SPL	62003-2067	17400-0135	17400-0105	31953-0107
DJAGB-0021H,-0121H**	6.1 SPL	62001-1090	17400-0135	17400-0105	31953-0124
220-240/50Hz Single Speed					
5DJAFB-0097	1.5	62003-2082	17400-0135	17400-0105	31953-0119
115 Volt Two Speed					
DJAYEA-0001	1.0-.16	62001-1101	17400-0120	17400-0105	
DJAYEA-0003	1.0-.16	62001-1087	17400-0120	17400-0105	
DJAYEA-0007,-3097,-3197	1.0-.12	62003-2060	17400-0120	17400-0105	
DJAYEA-0061	1.0-.16	AS910ESLL-Y	17400-0120	17400-0105	31953-0108
DJAYEA-0062,-3062*	1.0-.16	62003-2009	17400-0120	17400-0105	31953-0108
DJAYEA-0082,-0182	1.0-.12	62003-2060	17400-0120	17400-0105	31953-0121
DJAYEA-0112	1.0-.12	62001-1079	17400-0120	17400-0105	
DJAYEA-0152,-3152	1.0-.16	62003-2009	17400-0120	17400-0105	31953-0109
DJAYEA-3022	1.0-.16	62003-2009	17400-0120	17400-0107	31953-0105
DJAYEA-3003,-3103	1.5-.16	62003-2027	17400-0120	17400-0106	
DJAYEA-3113	1.5-.16	62003-2027	17400-0120	17400-0106	31953-0106
DJAYEA-3052M,-3152M	2.0-.25	62003-2009	17400-0120	17400-0105	31953-0103
DJAYFA-0001	1.5-.19	62003-2010	17400-0121	17400-0105	
DJAYFA-0062A,-0162A	1.5-.18	62003-2010	17400-0121A	17400-0105	31953-0108
DJAYFA-0082,-0182	1.5-.18	62003-2010	17400-0121	17400-0105	31953-0121
DJAYFA-0162,-3062,-3162	1.5-.19	62003-2010	17400-0121	17400-0105	31953-0108
DJAYFA-3022,-3122	1.5-.19	62003-2010	17400-0121	17400-0105	31953-0105
DJAYFA-9022,-9122	1.5-.19	62003-2010	17400-0121	17400-0106	31953-0105
DJAYFA-0152,-3152	2.0-.25	62003-2010	17400-0121	17400-0105	31953-0109
DJAYFA-3022H,-3122H	2.0-.25	62003-2010	17400-0121	17400-0105	31953-0125
220-240/50Hz Two Speed					
5DJAYFB-0097,-3097	1.5-.19	62003-2083	17400-0135	17400-0105	31953-0120

* Uses Volute Part No. 17400-0107.

** This model uses a 2-speed motor, but is wired for high-speed only.

REPAIR PARTS LIST
DURA-JET™
"DJ" SPA PUMP
1 through 6.1 SPL HP Models



Key No.	Description	Qty.	Part Number
1	Motor	1	Chart Page 15
2	Slinger	1	17351-0009
3	Seal Plate	1	17400-0001
4	O-Ring	1	35505-7430
5	Seal	1	37400-0028S
6	Impeller	1	Chart Page 15
7	Front Plate/Volute	1	Chart Page 15
8	Drain Plug	1	U178-940P
9	Screw, 1/4-20x1-1/2"	4	30787-0004
10	Nut, Hex 1/4-20	4	35407-0071
•	Nameplate	1	U33-174
•	Decal, "For use with pools and spas..."	1	U27-635
•	Voltage Label - 230 Volts	1	U27-68
•	Voltage Label - 115 Volts	1	U27-67
•	Voltage Label - 115/230 Volts	1	U27-153
•	Warning Tag	1	C63-12
•	Warning Tag	1	61002-0002
•	Cord	1	Chart Page 15

For quick disconnect pipe connections, purchase separately Part No. 77703-0105 and Part No. 77703-0108.

Kit Includes:

2 #38405-4094 2" Union Collars
2 #35505-1244 O-Ring
1 #38405-4095 2" Slip Adapter
1 #38405-4096 1-1/2" Slip Adapter (77703-0105 only).

- Not illustrated.

Parts are common to all models listed except as noted;

Motor (Key No. 1), Impeller (Key No. 6), and Volute (Key No. 7) are listed below.

Model No.	HP	Motor No. (Key No. 1)	Impeller No. (Key No. 6)	Volute (Key No. 7)	Cord Assembly
230 Volt Two Speed					
DJAYEB-0001	1.0-.16	62001-1086	17400-0120	17400-0105	
DJAYFA-0007,-3097	1.5-.18	62003-2061	17400-0121	17400-0105	
DJAYFB-0002	1.5-.19	62003-2018	17400-0121	17400-0105	
DJAYFB-0003	1.5-.19	62001-1088	17400-0121	17400-0105	
DJAYFB-0007	1.5-.18	62003-2062	17400-0121	17400-0105	
DJAYFB-0061,-0161	1.5-.19	62003-2026	17400-0121	17400-0105	31953-0108
DJAYFB-3093	1.5-.19	62003-2026	17400-0121	17400-0105	31953-0120
DJAYGB-0002	2.0-.25	62003-2019	17400-0122	17400-0105	
DJAYGB-0003	2.0-.25	62003-2081	17400-0122	17400-0105	
DJAYGB-0004	2.0-.25	62001-1089	17400-0122	17400-0105	
DJAYGB-0007	2.0-.25	62003-2064	17400-0122	17400-0105	
DJAYGB-0161*,-3061,-3161	2.0-.25	62003-2081	17400-0122	17400-0107	31953-0108
DJAYGB-3021,-3121	2.0-.25	62003-2081	17400-0122	17400-0107	31953-0105
DJAYGB-3092,-3192	2.0-.25	62003-2081	17400-0120	17400-0105	31953-0120
DJAYGB-3162	2.0-.25	62003-2019	17400-0122	17400-0107	31953-0108
DJAAYGB-0002	2.5-.25	62001-1091	17400-0123	17400-0105	
DJAAYGB-0161*,-3061,-3161	2.5-.25	62003-2025	17400-0123	17400-0107	31953-0108
DJAAYGB-3021,-3121	2.5-.25	62003-2025	17400-0123	17400-0107	31953-0105
DJAAYGB-3092	2.5-.25	62003-2080	17400-0123	17400-0105	31953-0120
DJAYFB-0013,-0113,-3113,-9113	3.0-.38	62003-2026	17400-0121	17400-0106	31953-0106
DJAYFB-3003D,-3103D,-9003D,-9103D	3.0-.38	62003-2026	17400-0121	17400-0106	
DJAYHB-0001	3.0-.38	62001-1090	17400-0135	17400-0105	
DJAYHB-0057	3.0-.38	62001-1106	17400-0135	17400-0105	31953-0118
DJAYHB-0097	3.0-.38	62003-2079	17400-0135	17400-0105	31953-0120
DJAYHB-0161*,-3061,-3161	3.0-.38	62003-2079	17400-0135	17400-0107	31953-0108
DJAYHB-3021,-3121	3.0-.38	62003-2079	17400-0135	17400-0107	31953-0105
DJAAYGB-0007,-3097	3.0-.38	62003-2066	17400-0123	17400-0105	31953-0120
DJAYFB-0051M,-0151M	3.6-.38 SPL	62003-2026	17400-0121	17400-0105	31953-0118
DJAYGB-0013,-0113,-3013,-3113	3.6-.38 SPL	62003-2081	17400-0122	17400-0106	31953-0106
DJAYGB-9013,-9113	3.6-.38 SPL	62003-2081	17400-0122	17400-0106	31953-0106
DJAYGB-0051M,-0151M	4.0-.38 SPL	62003-2081	17400-0122	17400-0105	31953-0118
DJAYGB-3051MB,-3151MB	4.0-.38 SPL	62003-2081	17400-0122	17400-0107	31953-0118
DJAYGB-9051M,-9151M	4.0-.38 SPL	62003-2081	17400-0122	17400-0105	31953-0118
DJAYGB-9051MB,-9151MB	4.0-.38 SPL	62003-2081	17400-0122	17400-0107	31953-0118
DJAAYGB-0013,-0113,-3113,-9013,-9113	4.0-.38 SPL	62003-2025	17400-0123	17400-0106	31953-0106
DJAAYGB-3003,-3103,-9003,-9103	4.0-.38 SPL	62003-2025	17400-0123	17400-0106	
DJAAYGB-3051MB,-3151MB	4.0-.38 SPL	62003-2081	17400-0122	17400-0105	31953-0118
DJAAYGB-9051MB,-9151MB	4.0-.38 SPL	62003-2081	17400-0122	17400-0105	31953-0118
DJAYGB-0151,-3051,-3151	4.2-.38 SPL	62003-2019	17400-0122	17400-0105	31953-0109
DJAYGB-3021H,-3121H	4.2-.38 SPL	62003-2019	17400-0122	17400-0105	31953-0125
DJAAYGB-0151,-3051,-3151	4.2-.38 SPL	62003-2025	17400-0122	17400-0105	31953-0109
DJAAYGB-0051M,-0151M,-9051M,-9151M	4.8-.38 SPL	62003-2025	17400-0123	17400-0105	31953-0118
DJAYHB-0041,-0141,-3041,-3141	5.0-.50 SPL	62003-2079	17400-0135	17400-0105	31953-0103
DJAYHB-0051M,-0151M	5.0-.50 SPL	62003-2079	17400-0135	17400-0105	31953-0118
DJAYHB-3021H,-3121H	6.1-.5 SPL	62003-2079	17400-0135	17400-0105	31953-0125
DJAYHB-3051,-3151	6.1-.5 SPL	62003-2079	17400-0135	17400-0105	31953-0109

* Uses Volute Part No. 17400-0105.

STA-RITE LIMITED WARRANTY

Pumps, filters, skimmers, underwater lights (except bulbs), accessories and fittings manufactured by Sta-Rite are warranted to be free of defects in material and workmanship for one (1) year from date of installation.

Product specific warranties:	Year from date of installation
------------------------------	--------------------------------

HRPB, DEPB, System 3, System 2 and Posi-Clear

Tanks	10 years
Internal filter components and valves	1 year

Max-E-Therm - Pool/Spa Heaters 2 years
 Heater Enclosure only (Upper RH & LH;
 lower enclosure; and control board enclosure)... 10 years

Automatic Pool Cleaners including Hose 2 years

Cristal-Flo filters - Tanks 10 years pro-rated*
 Valve and internal components. 1 year

Posi-Flo II - Tanks 10 years
 Elements 1 year

PRC Cartridge -
 Filter Tanks 5 years pro-rated (1st 2 years full)
 Elements 1 year

System 2 Above Ground Systems - Tanks 10 years
 Pumps / Platform and Internals 1 year

Pumps 1 year
 When equipped with A.O. Smith
 2-compartment motors (Does not include
 pumps sold as part of a systems package) 2 years

Traps / In-Line Strainers 1 year

Vertical Commercial Filter - Tanks 10 years
 Internals 1 year

Horizontal Commercial Filter
 Tanks 5 years
 (Years 6-9, Prorated declining 20%/year, Yr. 10 - 10%)
 Internals 1 year

* Full warranty coverage is in effect for one year after installation. The pro-rated warranty covers the *tank only* during the 2nd through 10th year after installation. The amount covered decreases by 10% each year. (ie., 2nd year 90% covered, 3rd year 80% covered, etc.).

The foregoing warranties relate to the original consumer purchaser ("Purchaser") only. Sta-Rite shall have the option to repair or replace the defective product, at its sole discretion.

Purchasers must pay all labor and shipping charges necessary to replace the product covered by this warranty. Requests for warranty service must be made through the installing dealer. This warranty shall not apply to any product that has been subject to negligence, misapplication, improper installation or maintenance, or other circumstances which are not in Sta-Rite's direct control.

This warranty sets forth Sta-Rite's sole obligation and Purchaser's exclusive remedy for defective products.

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 WARRANTIES. IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE DURATION OF THE APPLICABLE EXPRESS WARRANTIES PROVIDED HEREIN.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion 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.

Supersedes all previous publications.

Sta-Rite Industries, Inc.,
293 Wright St., Delavan, WI 53115

▲ **Retain Warranty Certificate (upper portion) in a safe and convenient location for your records.**

DETACH HERE: Fill out bottom portion completely and mail within 10 days of purchase/installation to:



Sta-Rite, Attn: Warranty Dept., 293 Wright St., Delavan, WI 53115

STA-RITE®



Warranty Registration Card

Name _____

Address _____

City _____ State _____ Zip _____

Purchase Date _____

Product Purchased _____

☐ New installation ☐ Replacement

Type of Pool ☐ Inground ☐ Vinyl ☐ Fiberglass ☐ Gunite

Size of Pool _____

Years pool has been in service ☐ less than 1 ☐ 1-3 ☐ 3-5 ☐ 5-10

Purchased from:
 Company name _____

Address _____

City _____ State _____ Zip _____

Please send me more information on these other products from Sta-Rite.

☐ Pumps ☐ Filters ☐ Automatic Pool Cleaners
☐ Maintenance Equipment ☐ Test Strips
☐ Heaters