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Your pump has been carefully packaged at the factory to prevent damage during shipping. However, occasional damage may occur due to rough handling.

Carefully inspect your pump for damages that could cause failures. Report any damage to your <u>carrier or your</u> point of purchase. INSTALLATION INSTRUCTIONS

> SERIES 101 / 105

SUBMERSIBLE DEEP WELL PUMPS or 'SUB-PACS'

> Please read these instructions carefully. **Failure** to comply to instructions and **designed** operation of this system, may **void** the warranty.

THESE INSTRUCTIONS ARE VALID FOR 2 AND 3 WIRES (+ GROUND) DEEP WELL PUMP INSTALLATION.

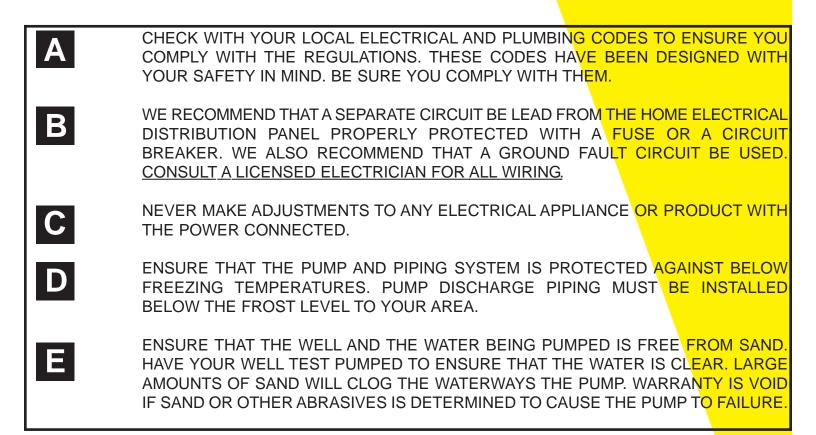
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SAFETY INSTRUCTIONS:

This fine pump that you have just purchased is designed from the latest in material and workmanship.

Before installation and operation, we recommend the following procedures:



General instructions:

Your submersible pump is a high quality design but, should be installed in a well that is clean, straight, and of sufficient capacity. Never install your submersible pump-resting on the bottom of the well. A distance of 5 feet (1.5m) from the bottom of well is recommended.



The 3 wired (+ground) model, submersible pump is supplied with a motor control box. This control box should be installed in a clean dry location, in vicinity of the pressure tank. The separate electrical circuit should have its own fused disconnect switch in the line leading to the pressure switch.

YOUR OWNERS MANUAL WILL DISPLAY A NUMBER OF DIAGRAMS AND PICTURES TO HELP YOU WITH YOUR INSTALLATION.

Material required for drilled well application

Deep well pump	Tank installation
Desired length of polyethylene 1" pipe, 100 PSI,	Desired length of 1" braided hose (750919) to
CSA or UL approved to link up from pumping	link up from pu <mark>mp to tank. Keep tank as close</mark>
level to pump.	as possible from pump.
1 Poly rope	🛄 1 tank "T" (65065 <mark>1). </mark>
U Well seal (150156).	🔲 1 1/2" drain valve <mark>(650659). 👘 🗌 🗌 🗌 🗌 🗌</mark>
Pitless adaptor (150155).	1 1/2" safety valve (150162).
1" male brass adaptors (750871).	2 1" female adaptor(750949).
1" stainless steel clamps (750885).	🔲 1 1" galvanized or br <mark>ass elbow. 🛛 🔹 🗌 🗌 🗌 🗌</mark>
Electrical tape.	Pressure gauge (750769).
Teflon tape.	L.O.P. pressure switch (150159S).
Pressure relief valve 1/2" NPT.	1/4" X 3" galvanized or brass nipple
Torque arrestor (150158)	Teflon tape.
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<u>Tools</u>

Screwdrivers, hacksaw to cut pipe, knife to assist in pipe cutting, round file to smooth pipe ends, pipe wrench, adjustable wrench to tighten fittings, propane torch and welding material.

INSTALLATION STEP

BEFORE YOU START

Information regarding your well may be obtained from your well Drillers' log.

If no information is available, you can determine the depth of the well by lowering a heavy (small) weight tied to a long cord or fishing line. Lower the weight to the well bottom, take up the slack, and mark line where it meets the top of the well. Remove the weight from the well and measure line to determine well depth.

Please remember, a submersible pump should not be lower than 5 feet from the bottom of the well; no higher than 10 feet below the water level.

If you are replacing your old pump with a new and similar pump, ie : 10 GPM. Pump with new 10 GPM, and a similar powered (1/2 HP by 1/2 HP) install the new pump at the same level; if... the new pump is larger in horsepower (1/2 HP by 3/4 HP) or pumping capacity (5 GPM by 7 GPM), set the pump deeper in the well if the well is capable of pumping higher volume.

150143 (4 tubes) / 150152 (3 tubes) HEAT SHRINK SPLICING KIT SHRINKING TECHNIQUE

Shrinking can be accomplished through the use of a thermo gun or flame torch with a utility head or other broad flame. Begin at one end of tubing. Keep tubing out of direct contact with flame. Keep flame moving back and forth. Progress toward other end as tubing shkinks and wrinkles disappear. Keep the flame moving.

STEP 1 Strip approx. 1/4" (6mm) of wire insulation from both end of wires to connect. Clean wires about 3" from ends and put tube over one end.



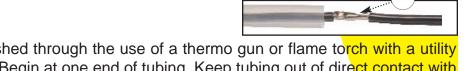
Insert one wire end into wire connector and crimp it.



Insert the second wire end into wire connector and crimp it.



Set the connector in the middle of the tube.



STEP 5 Shrinking can be accomplished through the use of a thermo gun or flame torch with a utility head or other broad flame. Begin at one end of tubing. Keep tubing out of direct contact with flame. Keep flame moving back and forth.



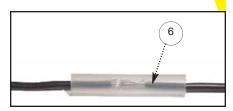


Progress toward other end as tubing shrinks and wrinkles disappear. Keep the flame moving. A small amount of glue should be visible around the ends of the tube.



Let tube to cool before pump installation.

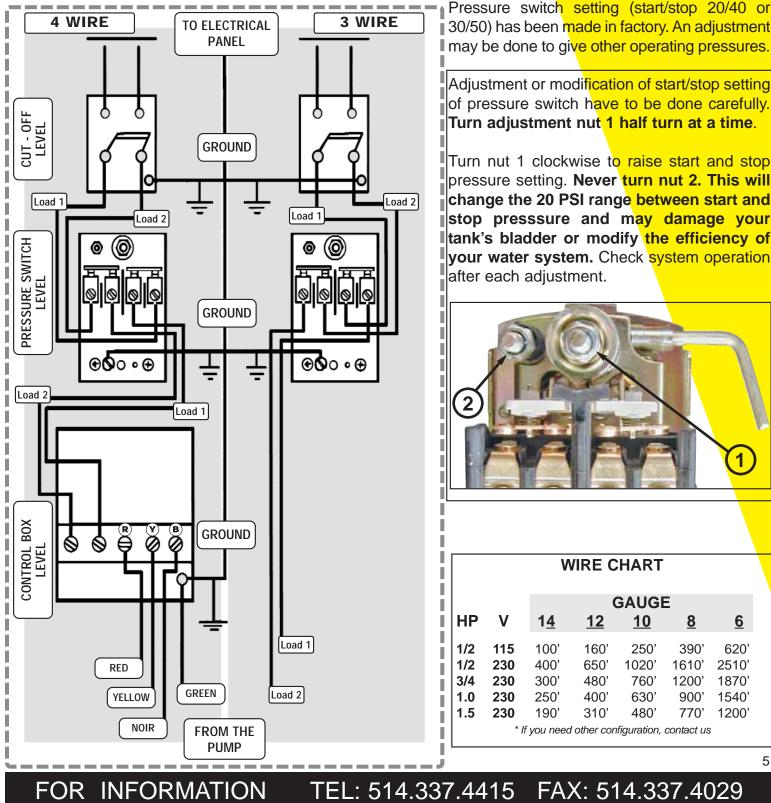
STEP 8 Put together all spliced wires and use electrical tape to cover the complete heat shrink from beginning to end.



ELECTRICAL INSTALLATION

We recommend that a licensed electrician be employed to do wiring to the pressure switch. STEP 9 Permanently ground the motor in accordance to the electrical codes for your area.

> Do not use an extension cord to connect your pump to the power source. From your distribution panel to the pressure switch, we recommend a wire gauge not smaller than 14 gauge.



STEP BY STEP INSTALLATION INSTRUCTION FOR YOUR NEW DEEP WELL PUMP

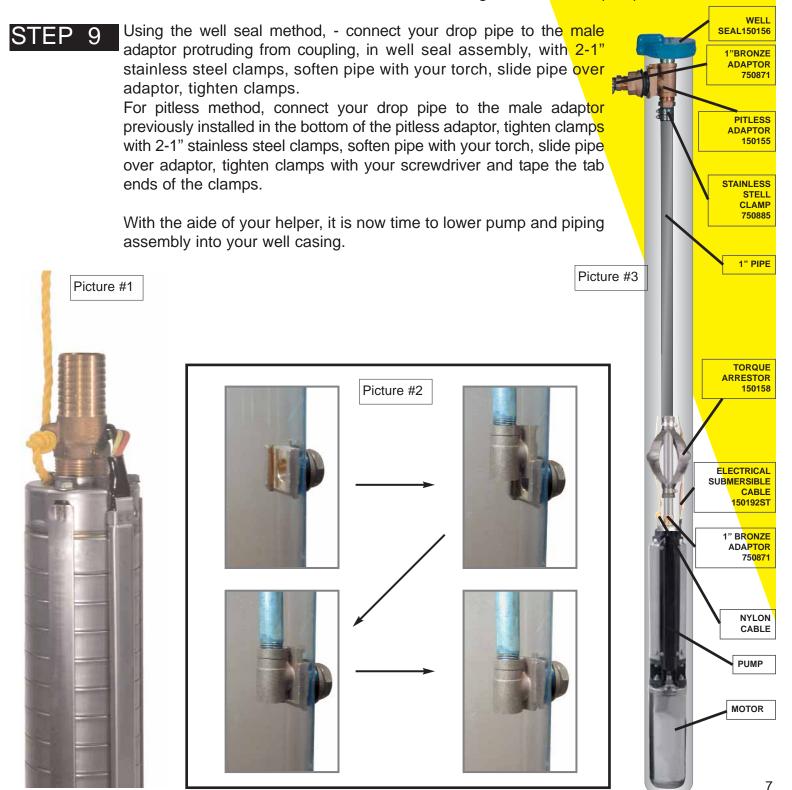
- STEP 1 Lay the pump on the ground a foot or two from the well head, with the discharge end pointing away from the well. If you have purchased a Sub-Pac, the wire and (splice kit) will be attached to the motor pigtail.
- STEP 2 Your submersible pump is equipped with a check valve installed in the discharge opening of pump. With teflon tape, wrap the threads on a 1" male brass, (or galvanized) adaptor and with your pipe wrench, install adaptor into opening of the check valve. Do not over tightennug up until slightly hard to turn. (Brass adaptors are recommended for long life. Electrolysis will damage galvanized adaptors).
- **STEP 3** Locate your 1" Plastic Poly Pipe and roll out on the ground, the desired length for your pump setting in the well. Slide1-1" stainless steel hose clamp, (2 clamps are better), over the end of your plastic pipe. With your propane torch-heat this end of the plastic pipe-while warm-slide pipe over adaptor installed in pumps' check valve. With your screwdriver securely tighten clamp(s). Use electrical tape to tape the tab ends of the clamp(s).
- **STEP 4** To prevent the pump from hitting the side of the well casing and well, to prevent possible damage to the submersible pump cable, when the pump and motor starts in the well a torque arrestor (*150158*) is recommended. Remove torque arrestor from its carton and disassemble into two halfs. At 6" or so above the pump's discharge and around the pipe, place each half of the arrestor and with the clamps provided, install the arrestor. Tighten the bottom clamp securely arrestor towards the middle so that it expands to the size of inside diameter of your well casing. Securely tighten the top clamp, with your scewdriver. With electrical tape tape the tab ends of the clamps.

We recommend to install at each 35m (100') others torque arrestor assembly.

- STEP 5 Regardless of which method chosen to lead the pump discharge pipe into the home, a trench should be excavated from the well head into the location where the pipe will enter the basement wall. The trench should be excavated so that the discharge pipe will be intalled bellow the frost level for your area, usually 4-5 feet deep. The typical diagram shown in this manual does not show this trench for your discharge pipe.
- **STEP 6** Refer to the diagram, and prepare and assemble the well seal assembly. The well seal size shall be the inside diameter of the well casing with the pipe size of 1". All fittings are brass or galvanized and are of 1" NPT size. When the assembly is complete it will be put in place along with the pipe and secured to the well casing by tightening, the well seal bolts A nuts. When using a pitless adaptor, the connection to the system supply line, (discharge pipe from pump) is made below ground, below the frost level for your area. The well casing is cut and the pitless adaptor is lowered into place by using a riser pipe connected to the top of pitless adaptor. (Riser pipe 1" about 4 feet long) construct from 1" steel pipe. Before pitless adaptor is securely tightened into place in the casing, a 1" brass male pipe adaptor should be installed in the bottom opening on the adaptor, and 1 more adaptor, installed in the discharge connection leading from the adaptor. Use teflon tape on all thread connections and securely tighten with your pipe wrenches.

STEP 7 Roll out the submersible pump cable, on the ground, along side of your 1" plastic Poly pipe, and at 5 foot intervals using your electrical tape - tape the cable to the pipe. This will prevent the cable from hitting the well casing when lowering pump into the well.

STEP 8 Securely attached your 1/4 poly safety rope to the lug provided on the discharge end of your submersible pump. This rope should be long enough to reach the pump setting in your well, when lowered. The other end of safety rope should be attached to a pipe-one or two feet long (galvanized-steel), so that if pump should be dropped in well when being lowered-pipe should come to rest across the diameter of the well casing, so as not lose pump, in the well.



FOR INFORMATION

TEL: 514.337.4415 FAX: 514.337.4029

AIR PRESSURE TANK IN<mark>STALLATION</mark>

STEP 10 for captive air tanks

When using a separate tank from your pump, we recommend to install a captive air tank as shown in our typical installation diagram, that is air injected into the tank at the factory. This air, which is in addition to atmospheric pressure, increase the ability of the tank to deliver more water between on/off cycles, thus increasing the efficiency of your water system. Connect the pump discharge to the tank T, using adaptors and braided hose, then, connect the other side of tank T to your home's plumbing distribution line.



Make sure that the precharged air pressure (before connecting the tank) is 2 PSI less than the starting pressure set on the pressure switch of your pump.

If you adjust the air pressure after the installation, follow these steps:

- Check the starting pressure of the pump on the pressure gauge;
- Disconnect the power to the pump;
- Open nearest fawcet to the tank and relieve all pressure in tank, then close the fawcet;
- Adjust the air pressure of the tank (by pumping or removing air at the snifter valve) 2 PSI below pressure switch "ON" setting;

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- Turn power back on to pump.

Your tank is now well precharged. Run the pump through a few cycles to verify that it works properly.

STEP 11

for epoxy or glass lined tanks Other types of tanks may be used, as galvanized standard tanks, epoxy or glass lined tanks. These products do not achieve the benefits of the captive air tanks.

Epoxy or glass lined tanks with float have to be precharged by the installer. Assuming tank is plumbed to pump and all connections are checked for leaks, follow these steps:

- Run pump through one complete cycle, until pump shuts off;
- Disconnect the power to the pump;
- Open nearest fawcet to the tank and relieve all pressure in tank, then close the
- fawcet;
- Close service line gate valve;
- With a car tire pump, inject air into the snifter valve located in tank. Watch pump pressure gauge and stop pumping air when pressure
- reachs 2 PSI below pressure switch "ON" setting;
- Return power back on to pump;
- Run pump through one complete cycle;
- Open service line gate valve.

Not recommended for galvanizedtanks

Your tank is now well precharged. Run the pump through a few cycles to verify that it works properly.

Galvanized standard tanks require an air volume control and to be used with jet pump. We do not recommend the installation of this type of tank with your submersible pump. This type of galvanized tank is recommended only with piston pumps.

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AIR PRESSURE TANK INSTALLATION

STEP 1 "Free-Standing" type tanks have to be installed offset from your pump, and in "the line" coming from your pump's discharge connection (either a jet or submersible pump). Turn your tank on its side and install a galvanized 90° elbow (1" or 1 1/4" as per needed) to the inlet-outlet connection, using an ample supply of teflon tape on the treads.

- **STEP 2** Determine the position or location in which you wish to leave your tank permanently. Leave ample room to make your tank connections.
- STEP 3 Screw the long end of the tank "T" (650651 or 650662) to the tank elbow's using teflon tape. If required, install a reducing adaptor 1 1/4" 1" NPT.
- STEP 4 Install a pressure gauge (750769) and a pressure switch (750776S) (with a 1/4" X 3" nipple) in the 1/4" opening of the tank "T". Then, install a drain valve (650659) and a safety relief valve (1501162) in the 1/2" opening of the tank "T".
- **STEP 5** In the service line leading from the tank "**T**", we recommend that you install a service gate valve to allow you to shut-off you water supply in the case of repairs to the home's water fixtures.

Pressure

Pitless

adaptor

#150155

relief valve #150162

NOTES:

The above parts are recommended. Use teflon tape on all treads. Use a pipe wrench to tight each piece adequately.

The tank size is very important. Ensure that you select a tank which will meet your requirements. Several tank models are available (larger one is always preferable).

Well seal

#750871

FOR INFORMATION

L.O.P

switch #150159S

Pressure

Pressure

"T" tank

Drain valve

90° galvanized or brass elbow

#650659

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#650662

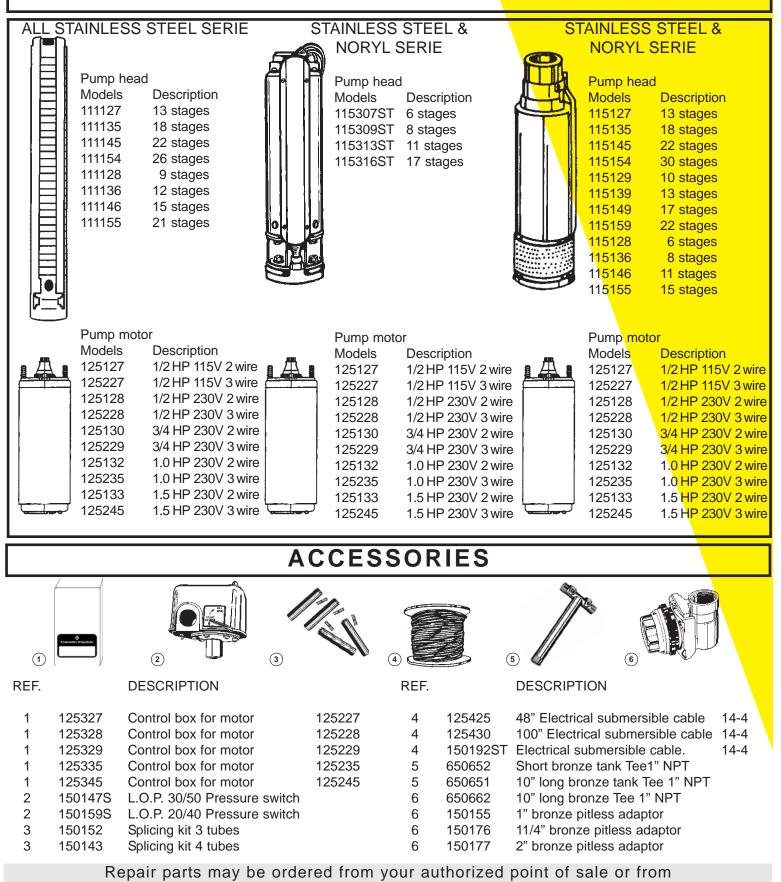
gauge #750769

REPLACEMENT PUMP MODELS

					NORYL	_ Imp	ellers	/ Diff	users	NORYL	_ Imp	ellers	/ Diff	users
ALL STAINLESS STEEL				& STAINLESS STEEL			& STAINLESS STEEL							
5 GPM	1-11/	/4" DI	SCHA	ARGE	5 GPM	1-11/	4" DI	SCH	ARGE	7 GPM	1-11/	4" DI	SCH/	ARGE
MODELS	ΗP	V	Wire	Stage	MODELS	ΗP	V	Wire	Stages	MODELS	HP	V	Wire	Stages
101124	1/2	115	2	13	105130	1/2	115	2	13	1051 <mark>13</mark>	1/2	115	2	10
101125	1/2	115	3	13	105125	1/2	115	3	13	10511 <mark>4</mark>	1/2	115	3	10
101126	1/2	230	2	13	105132	1/2	230	2	13	105131	1/2	230	2	10
101074	1/2	230	3	13	105127	1/2	230	3	13	105163	1/2	230	3	10
101134	3/4	230	2	18	105101	1/2	230	3	13	105108	1/2	230	3	10
101135	3/4	230	3	18	105142	3/4	230	2	18	105141	3/4	230	2	13
101059	3/4	230	3	18	105135	3/4	230	3	18	105143	<mark>3/4</mark>	230	3	13
101144	1.0	230	2	22	105105	3/4	230	3	18	105109	3 <mark>/4</mark>	230	3	13
101145	1.0	230	3	22	105144	1.0	230	2	22	105173	1. <mark>0</mark>	230	2	17
101156	1.5	230	2	26	105145	1.0	230	3	22	105174	1.0	230	3	17
101154	1.5	230	3	26	105153	1.5	230	2	30	105182	1.5	230	2	22
					105154	1.5	230	3	30	105183	1.5	<mark>230</mark>	3	22
					NORYI	Suc	tion /	Diecl	Anree	NORYL	Imp	allore		
									0					
ALL S	STAIN	ILESS	S STE	EL	& S.S	TEEL	_ (eco	no se	erie)			ES <mark>S</mark>		
10 GPM		/4" D	ISCH	ARGE		TEEL	- (eco 4" DI	no se SCH/	erie) ARGE		TAINL	_ES <mark>S</mark> /4" D	STEI SCH	EL ARGE
		/4" D V	ISCH		& S.S	TEEL /1 1 1/	- (eco 4" DI	no se SCH/ Wire	erie)	& S	TAINL 1-11 HP	_ES <mark>S</mark> /4" D	STEI SCH	EL
10 GPM	1-11	/4" D	ISCH	ARGE	& S.S 10 GPN	TEEL /I 1 1/ HP	- (eco 4" DI	no se SCH/	erie) ARGE	& S ⁻ 10 GPM	TAINL 1-11	_ES <mark>S</mark> /4" D	STEI SCH	EL ARGE
10 GPM MODELS	∣1-11 HP	/4" D V	ISCH Wire 2 3	ARGE Stages	& S.S 10 GPN MODELS	TEEL /I 1 1/ HP 1/2	- (eco 4" DI V	no se SCH/ Wire	erie) ARGE Stages	& S ⁻ 10 GPM MODELS	TAINL 1-11 HP	LES <mark>S</mark> /4" D V	STEI SCH Wire 2 3	EL ARGE Stages 6 6
10 GPM MODELS 101129	1-11 HP 1/2	/4" D V 115	ISCH Wire 2	ARGE Stages 9 9 9	& S.S 10 GPN MODELS 105335ST	TEEL /I 1 1/ HP 1/2 1/2	- (eco 4" DI V 115	no se SCH/ Wire 2	erie) ARGE Stages 6	& S ⁻ 10 GPM MODELS 105124	TAINL 1-11 HP 1/2	ES <mark>S</mark> /4" D V 115	STEI SCH Wire 2	EL ARGE Stages 6
10 GPM MODELS 101129 101123	1-11 HP 1/2 1/2	/4" D V 115 115	ISCH Wire 2 3 2 3	ARGE Stages 9 9 9 9 9	& S.S 10 GPN MODELS 105335ST 105305ST	TEEL /I 1 1/ HP 1/2 1/2 1/2	(eco 4" DI V 115 115	no se SCH/ Wire 2 3	erie) ARGE Stages 6 6	& S ⁻ 10 GPM MODELS 105124 105126	TAINL 1-11 HP 1/2 1/2	ES <mark>S</mark> /4" D V 115 115	STEI SCH Wire 2 3	EL ARGE Stages 6 6 6 6 6
10 GPM MODELS 101129 101123 101130	1-111 HP 1/2 1/2 1/2 1/2 1/2 1/2	/4" D V 115 115 230 230 230	ISCH Wire 2 3 2 3 3 3	ARGE Stages 9 9 9 9 9 9	& S.S 10 GPN MODELS 105335ST 105305ST 105337ST	TEEL /I 1 1/ HP 1/2 1/2 1/2 1/2 1/2	(eco 4" DI V 115 115 230	no se SCH/ Wire 2 3 2	erie) ARGE Stages 6 6 6	& S ⁻ 10 GPM MODELS 105124 105126 105133	TAINL 1-11 HP 1/2 1/2 1/2 1/2 1/2	ES <mark>S</mark> /4" D V 115 115 230	STEI SCH Wire 2 3 2	EL ARGE Stages 6 6 6 6 6 6
10 GPM MODELS 101129 101123 101130 101128 <i>101151</i> 101131	1-11 HP 1/2 1/2 1/2 1/2 1/2 3/4	/4" D V 115 115 230 230 230 230	ISCH Wire 2 3 2 3 3 3 2	ARGE Stages 9 9 9 9 9 9 2 12	& S.S 10 GPN MODELS 105335ST 105305ST 105337ST 105307ST <i>105551ST</i> 105339ST	TEEI 1 1 1/ HP 1/2 1/2 1/2 1/2 1/2 3/4	4" DIS 4" DIS 115 115 230 230 230 230	no se SCH/ Wire 2 3 2 3 3 2 2	erie) ARGE Stages 6 6 6 6 6 8	& S ⁻ 10 GPM MODELS 105124 105126 105133 105128 <i>105103</i> 105134	TAINL 1-11 HP 1/2 1/2 1/2 1/2 1/2 3/4	ES <mark>S</mark> /4" D 115 115 230 230 230 230	STEI SCH Wire 3 2 3 3 3 2	EL ARGE Stages 6 6 6 6 6 8
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10 GPM MODELS 101129 101123 101130 101128 <i>101151</i> 101131 101136 <i>101152</i> 101147	1-11 HP 1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 1.0	/4" D V 115 115 230 230 230 230 230 230 230 230 230	ISCH 2 3 2 3 3 2 3 3 2 3 2 3 2 2	ARGE Stages 9 9 9 9 9 12 12 12 12 12	& S.S 10 GPN MODELS 105335ST 105305ST 105337ST 105307ST 105551ST 105339ST 105309ST 105352ST 105313ST 105313ST 105353ST	TEEL 1 1 1/ HP 1/2 1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 1.0 1.0 1.0	(eco 4" DIS 115 230 230 230 230 230 230 230	no se SCH/ Wire 2 3 2 3 3 2 3 2 3 2 3 2 2 3 2 2	erie) ARGE Stages 6 6 6 6 6 8 8 8 8 8 11	& S ⁻ 10 GPM MODELS 105124 105126 105133 105128 <i>105103</i> 105134 105136 <i>105107</i> 105150	TAINL 1-11 HP 1/2 1/2 1/2 1/2 3/4 3/4 3/4 1.0	ES <mark>S</mark> /4" D 115 115 230 230 230 230 230 230 230	STEI SCH 2 3 2 3 3 2 3 3 2 3 2 3 2 2 3 2 2 3 2 2	EL ARGE Stages 6 6 6 6 8 8 8 8 11 11 11
10 GPM MODELS 101129 101123 101130 101128 <i>101151</i> 101131 101136 <i>101152</i> 101147 101146 <i>101153</i> 101158	1-11 HP 1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 1.0 1.0 1.0 1.5	/4" D V 115 230 230 230 230 230 230 230 230 230 230	ISCH Wire 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 2 3 2 2	ARGE Stages 9 9 9 9 9 12 12 12 12 15 15 15 15 21	& S.S 10 GPN MODELS 105335ST 105305ST 105337ST 105307ST 105339ST 105339ST 105335ST 105335ST 105313ST 105353ST 105353ST 105336ST	TEEL 1 1 1/ HP 1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 1.0 1.0 1.0 1.5	(eco 4" DIS 115 115 230 230 230 230 230 230 230 230 230 230	no se SCH/ Wire 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	erie) ARGE Stages 6 6 6 6 6 8 8 8 8 11 11 11 11 11	& S ⁻ 10 GPM MODELS 105124 105126 105133 105128 <i>105103</i> 105134 105136 <i>105107</i> 105150 105146	TAINL 1-11 HP 1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 1.0 1.0	ES <mark>S</mark> /4" D 115 115 230 230 230 230 230 230 230 230	STEI SCH 2 3 2 3 3 2 3 3 2 3 2 3 3 2 3 3 2 3 3	EL ARGE Stages 6 6 6 6 8 8 8 8 8 11
10 GPM MODELS 101129 101123 101130 101128 <i>101151</i> 101131 101136 <i>101152</i> 101147 101146 <i>101153</i> 101158 101155	1-11 HP 1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 1.0 1.0 1.5 1.5	/4" D V 115 230 230 230 230 230 230 230 230 230 230	ISCH Wire 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	ARGE Stages 9 9 9 9 9 12 12 12 12 15 15 15 21 21	& S.S 10 GPN MODELS 105335ST 105305ST 105337ST 105307ST 105551ST 105339ST 105309ST 105352ST 105313ST 105313ST 105353ST	TEEL 1 1 1/ HP 1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 1.0 1.0 1.0 1.5	(eco 4" DI 115 115 230 230 230 230 230 230 230 230 230 230	no se SCH/ Wire 2 3 2 3 2 3 2 3 2 3 3 2 3 3 3 3 3 3	erie) ARGE Stages 6 6 6 6 8 8 8 8 11 11 11	& S ⁻ 10 GPM MODELS 105124 105126 105133 105128 <i>105103</i> 105134 105136 <i>105107</i> 105150 105146 105161	TAINL 1-11 HP 1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 3/4 1.0 1.0 1.5	ES <mark>S</mark> /4" D 115 115 230 230 230 230 230 230 230 230 230 230	STEI SCH 2 3 2 3 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	EL ARGE Stages 6 6 6 6 6 8 8 8 8 11 11 11
10 GPM MODELS 101129 101123 101130 101128 <i>101151</i> 101131 101136 <i>101152</i> 101147 101146 <i>101153</i> 101158	1-11 HP 1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 1.0 1.0 1.0 1.5	/4" D V 115 115 230 230 230 230 230 230 230 230 230 230	ISCH Wire 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 2 3 2 2	ARGE Stages 9 9 9 9 9 12 12 12 12 15 15 15 15 21	& S.S 10 GPN MODELS 105335ST 105305ST 105337ST 105307ST 105339ST 105339ST 105335ST 105335ST 105313ST 105353ST 105353ST 105336ST	TEEL 1 1 1/ HP 1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 1.0 1.0 1.0 1.5	(eco 4" DIS 115 115 230 230 230 230 230 230 230 230 230 230	no se SCH/ Wire 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	erie) ARGE Stages 6 6 6 6 6 8 8 8 8 11 11 11 11 11	& S ⁻ 10 GPM MODELS 105124 105126 105133 105128 <i>105103</i> 105134 105136 <i>105107</i> 105150 105146 105161	TAINL 1-11 HP 1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 3/4 1.0 1.0 1.5	ES <mark>S</mark> /4" D 115 115 230 230 230 230 230 230 230 230 230 230	STEI SCH 2 3 2 3 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	EL ARGE Stages 6 6 6 6 8 8 8 8 8 11 11 11

Italic type: Sub Packs pumps Should have more choice depending of your configuration.

REPAIR PARTS



BUR-CAM PUMPS

POUR INFORMATION

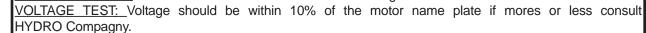
TEL: 514.337.4415 FAX: 514.337.4029

TROUBLE SHOOTING GUID<mark>E CHECKLIST</mark>

NEVER MAKE ADJUSTMENTS TO ANY ELECTRICAL APPLIANCE OR PRODUCT WITH THE POWER CONNECTED. DON'T JUST UNSCREW THE FUSE OR TRIP THE BREAKER, REMOVE THE POWER FROM THE RECEPTACLE.

TROUBLE	PROBABLE CAUSE	ACTIO <mark>N</mark>
Motor does not run.	Blown fuse Tripper breaker Inadequate power supply Faulty pressure switch Faulty submersible cable Faulty control box Loose wire connections Sand-locked pump	Replace Reset Check voltage Check / replace Check for breaks in cable Have an electrician, check control box Check and repair Pull pump and check for sand, mud or silt.
Motor starts too often	Waterlogged tank Pressure switch setting incorrect Check valve in pump-end stuck OPEN Leak in piping system	Repeat step 10 Repeat step 9 Check and replace Check and repair piping
Motor runs continuously	Faulty pressure switch Check valve stuck closed Low water level in well Blocked suction intake screen	Check and replace Pull pump and check valve, replace valve Check water level Install pump lower Remove pump and check
Motor runs BUT overload protector TRIPS	Control box location not ventilated-too-HOT Faulty cable or motor Faulty control box Incorrect voltage	Check location and change Have electrician, check for resistance Replace Call an electrician

Under no circumstances should the electrician rating of the overload protector be increased or the protector BY-PASSED in an attempt to breakfree a seized pump. Motor failure invariably results and the warranty is void. ELECTRICAL TEST: Consult an electrician for all electrical testing.



<u>AMPERAGE TEST</u>: Locked motor-rotor AMPS 4-5 times normal Amps. IDLE AMPS-Less than normal Amps. Pump may be sand locked-pull and clean.

<u>RESISTANCE TEST</u>: If ohmmeter reading is high-open circuit-low reading indicates there is a "short circuit". Situation must be corrected and further check of all wiring is in order.

<u>WARNING:</u> Serious or fatal electrical shock may result from failure to connect all metal plumbing, and the motor, if pump is used outside a drilled well, to the power supply grounding terminal. Do not install pump in lake around swimming areas.



N TEL: 514.337.4415 FAX: 514.337.4029