

## TROUBLESHOOTING

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTIONS
Pump does not turn on.	Pump not plugged in.	Plug in pump.
	Circuit breaker shutoff or fuse removed.	Turn on circuit breaker or replace fuse.
	Accumulation of trash on mercury float switch.	Clean float.
	Mercury float switch obstruction.	Check float path and provide clearance.
	Defective switch.	Disconnect switch, check w/ohmmeter: Open=infinite resistance, closed=zero.
	Defective motor.	Have pump serviced.
Pump will not shut off.	Mercury float switch obstruction.	Check float path and provide clearance.
	Pump is air locked.	Shut power off for approximately 1 minute, then restart. Repeat several times to clear air from pump. If system includes a check valve, a 3/16" hole should be drilled in discharge pipe approximately 2" above discharge connections.
	Liquid inflow matches pump capacity.	Larger pump required.
	Defective switch.	Disconnect switch, check w/ohmmeter: Open=infinite resistance, closed=zero.
	Loose connection in level control wiring.	Check control wiring.
Pump runs but does not discharge liquid.	Check valve installed backwards.	Check flow indicating arrow on check valve body to ensure it is installed properly.
	Check valve stuck or plugged.	Remove check valve and inspect for proper operation.
	Lift too high for pump.	Check rating table.
	Inlet to impeller plugged.	Pull pump and clean.
	Pump is air locked.	(See corrective action above.)
Pump does not deliver rated capacity.	Lift too high for pump.	Check rated pump performance.
	Rotation incorrect.	Switch any two of the line wires.
	Low voltage, speed too slow.	Check for proper supply voltage to make certain it corresponds to nameplate voltage.
	Impeller or discharge pipe is clogged.	Pull pump and clean. Check pipe for scale or corrosion.
	Impeller wear due to abrasives.	Replace worn impeller.
Pump cycles continually.	No check valve in long discharge pipe allowing liquid to drain back into basin.	Install a check valve in discharge line.
	Check valve leaking.	Inspect check valve for correct operation.
	Basin too small for inflow.	Install larger basin.

### LIMITED WARRANTY

#### SUMP, EFFLUENT & RESIDENTIAL SEWAGE

Little Giant #8E, #9E, #10E, #14EH, #16EH Series Submersible Effluent Pumps are recommended for use in sumps, basins or lift stations and suitable for pumping basement drainage water, effluent, wastewater and other non-explosive, non-corrosive, non-abrasive liquids not above 140°F with up to 3/4" spherical solids handling ability. (NOT TO BE USED FOR SEWAGE WATER EXCEPT TO PUMP SEPTIC TANK EFFLUENT.)

Little Giant #9S, #10S, #14S and #16S Series Submersible Sewage Ejector Pumps are recommended for use in sumps, basins or lift stations and suitable for pumping sewage, effluent, wastewater, and other non-explosive, non-corrosive, non-abrasive liquids not above 140°F with up to 2" spherical solids handling ability.

Each of the above noted Little Giant products is guaranteed to be in perfect condition when it leaves our factory. During the time periods and subject to the conditions hereinafter set forth, LITTLE GIANT PUMP COMPANY, subsidiary of Franklin Electric Company, Inc., will repair or replace to the original user or consumer any portion of your new LITTLE GIANT product which proves defective due to materials or workmanship of LITTLE GIANT. Contact your nearest authorized Little Giant service station for warranty service. At all times LITTLE GIANT shall have and possess the sole right and option to determine whether to repair or replace defective equipment, parts, or components. Damage due to lightning or conditions beyond the control of LITTLE GIANT is NOT COVERED BY THIS WARRANTY.

### WARRANTY PERIOD

**PUMPS:** 24 months from date of purchase or 30 months from date of manufacture, whichever comes first.

**LABOR, ETC. COSTS:** LITTLE GIANT shall IN NO EVENT be responsible or liable for the cost of field labor or other charges incurred by any customer in removing and/or affixing any LITTLE GIANT product, part or component thereof.

**THIS WARRANTY WILL NOT APPLY:**

1. to defects or malfunctions resulting from failure to properly install, operate, or maintain the unit in accordance with printed instructions provided
2. to failures resulting from abuse, accident or negligence
3. to normal maintenance services and the parts used in connection with such service
4. to units which are not installed in accordance with applicable local codes, ordinances and good trade practices
5. unit is used for purposes other than for what it was designed and manufactured
6. if pump exposed to but not limited to the following: sand, gravel, cement, grease, plaster, mud, tar, hydrocarbons, or hydrocarbon derivatives (oil, gasoline, solvents, etc.) or other abrasive or corrosive substances
7. if pump has been used for continuous pumping of suitable liquids above 140°F
8. if cord cut off to a length less than three feet
9. if pump has been dismantled by customer (dealer only can dismantle pump for field service)

**RETURNED OR REPLACED PRODUCT:** Any product to be replaced under the Warranty must be returned to LITTLE GIANT at 301 North MacArthur Blvd., Oklahoma City, OK 73127-6616 or such other place as LITTLE GIANT may designate, freight prepaid.

**PRODUCT IMPROVEMENTS:** Little Giant reserves the right to change or improve its products or any portions thereof without being obligated to provide such a change or improvement for units sold and/or shipped to such change or improvement.

**DISCLAIMER:** Any oral statements about the product made by the seller, the manufacturer, the representatives or any other parties, do not constitute warranties, shall not be relied upon by the user, and are not part of the contract for sale. Seller's and manufacturer's only obligation, and buyer's only remedy, shall be the replacement and/or repair by the manufacturer of the product as described above. Neither seller nor the manufacturer shall be liable for any injury, loss or damage, direct, incidental or consequential (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss), arising out of the use or the inability to use the product, and the user agrees that no other remedy shall be available to it. Before using, the user shall determine the suitability of the product for his intended use, and user assumes all risk of liability whatsoever in connection therewith. The warranty and remedy described in this limited warranty is an EXCLUSIVE warranty and remedy and is IN LIEU OF any other warranty or remedy, expressed or implied, which other warranties and remedies are hereby expressly EXCLUDED, including but not limited to any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow the exclusive or limitation of incidental or consequential damages, so the above limitation 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.

In the absence of other suitable proof of the purchase date, the effective date of this warranty will be based upon the date of manufacture plus two years. Direct all notices, etc., to: Service Department, LITTLE GIANT PUMP COMPANY, 301 N. MacArthur Blvd., Oklahoma City, OK 73127-6616.

**DETERMINATION OF UNIT DATE OF MANUFACTURE:** (9-87) month and year stamped on pump and/or serial number on pump nameplate coded to indicate year of manufacture.

**For parts or repair, please contact . . . . . 1.888.572.9933**  
**For technical assistance, please contact . . . . . 1.888.956.0000**

[www.LittleGiantPump.com](http://www.LittleGiantPump.com)  
**CustomerService-WTS@fele.com**