



# Model 18830-Series

## SELF-PRIMING PUMPS MARINE ENGINE COOLING

### FEATURES


<b>Body:</b>	Bronze
<b>Bearing Housing:</b>	Bronze
<b>Impeller:</b>	Jabsco Neoprene Compound
<b>Shaft:</b>	Stainless Steel
<b>Shaft Seal:</b>	Carbon-Ceramic Face Type
<b>Bearings:</b>	Sealed Ball Bearing
<b>Ports:</b>	1" ID Hose
<b>Shipping Weight:</b>	5 lb

### APPLICATION

Marine engine cooling.

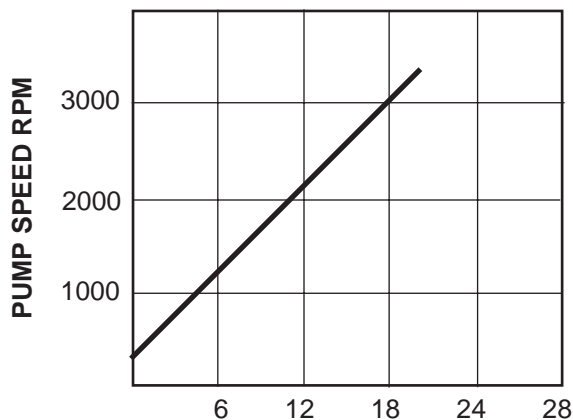


Model 18830-Series

	<b>WARNING</b> Injury hazard. Exposed pulleys and belts can cause injury. Install shield around pulleys and belts. Stay clear while machinery is operating.
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### PERFORMANCE

PUMP FLOW CHART



**Flow in U.S. GPM**  
Typical flow in average engine cooling application\*

\*Average engine cooling applications have discharge pressures of 0-15 psi and inlet vacuums of 3-5 inches of mercury.

### VARIATIONS

Model No. 18830-0000  
Supplied with pulley mounting adaptor

Replaces Sherwood G-30-2 for Chris Craft engines (305, 327 and 350 C.I.)

Glastron ( some models)

Pleasurecraft (some models)

Volvo (some early models)

Model No. 18830-0010  
Supplied with 6-1/2" "A" belt pulley

Model No. 18830-1020  
Supplied with 3/16" key only  
and high pressure impeller \*\*\*

Commander Marine 302, 351 C.I.

Glastron 302, 351 C.I. Class 165, 190, 200 & 225

\*\*\*For use where system pressures range between 15-25 psi total developed head.

## SERVICE INSTRUCTIONS

**Disassembly**

- 1) Remove the three impeller housing screws (key 13).
- 2) Slide impeller housing (key 2) off the bearing housing (key 3) and shaft (key 4) assembly.
- 3) Grasping hub of impeller (key 1) with pliers, remove it from impeller housing.
- 4) Remove cam screw (key 12) from the impeller housing. Slide the cam (key 6) out of the impeller housing.
- 5) Remove the O-ring (key 7) from the impeller housing groove.

TO REMOVE SEAL ASSEMBLY, THE SHAFT AND BEARING ASSEMBLY MUST BE REMOVED FROM THE BEARING HOUSING (KEY 3).

- **18830-0000** with press fit pulley adaptor
- 6) Remove pulley (not included) from the pulley adaptor (key 5).
  - 7) Solidly support the pulley adaptor and bearing housing. Drive roll pin (key 11) out of the pulley adaptor and shaft subassembly.
  - 8) Using a wheel puller tool, pull the pulley adaptor (key 5) off the pump shaft (key 4).
  - **18830-0010** with slip fit 61/2" pulley
  - 6) Solidly support the pulley and bearing housing. Drive roll pin (key 11 ) out of the pulley and shaft subassembly.
  - 7) Loosen pulley set screw.
  - 8) Remove pulley (key 5) and key (key 16) from shaft.
  - **18830-1020** is not supplied with a pulley or pulley adaptor; therefore, drive mechanism removal should be determined by its type of fit to shaft.
  - 9) Remove the retaining ring (key 10) out of the bearing housing (key 3).
  - 10) Lightly tap the spline end of the shaft. Shaft and ball bearings (key 9) should slide out of the bearing housing. BE CAREFUL NOT TO DAMAGE SPLINE END OF SHAFT.
  - 11) Ceramic portion of the seal (key 8) assembly normally will stay on the shaft. THE BRASS/CARBON PORTION OF THE SEAL SHOULD HAVE REMAINED IN THE BEARING HOUSING. Lightly press this portion from the pulley end of the bearing housing toward the impeller end of the bearing housing.
  - 12) Press ball bearings (key 9) off the shaft by supporting each bearing on its inner race to prevent damage.

**Assembly**

- 1) Clean and inspect all components for wear or damage. Replace all components where needed.
- 2) Lightly lubricate pump shaft (key 4) and press bearings (key 9) onto shaft by applying force to inner race of the bearing. DO NOT APPLY FORCE TO OUTER RACE OF BEARING.
- 3) Slide ceramic (white) portion of seal (key 8) onto spline end of shaft with large white face toward spline end.
- 4) Lightly press the brass/carbon portion of the seal into the bearing housing (key 3); be careful not to damage the carbon face of the seal. Brass face should face toward impeller end of pump and be pressed flush with bottom of counter-bore.
- 5) Lightly press shaft, bearing and shaft seal (ceramic portion) subassembly into bearing housing; be careful not to damage shaft end or seal components during this assembly.
- 6) Replace bearing retaining ring (key 10) into bearing housing.
  - **18830-0000** with press fit pulley adaptor
- 7) Support spline end of shaft and bearing housing. Press pulley adaptor (key 5) onto the shaft. Make sure that roll pin hole in shaft lines up with hole in pulley adaptor.
- 8) Drive roll pin (key 11) into pulley adaptor and shaft.
  - **18830-0010** with 6-1/2" slip fit pulley
- 7) Slide pulley (key 5) onto shaft. Make sure that roll pin hole in shaft lines up with hole in pulley.\*\*
- 8) Drive roll pin (key 11) into pulley and shaft and tighten set screw.
  - **18830-1020** is not supplied with a pulley or pulley adaptor. If the driving mechanism is a press fit, the spline end of the shaft must be supported when pressing the fitting onto the shaft.
- 9) Apply a thin coat of sealant to convex side of cam (key 6) and threads of cam screw (key 12), fasten cam to impeller housing.
- 10) Slide impeller (key 1) onto shaft spline and place spline seal in impeller bore.
- 11) Place O-ring (key 7) into groove in impeller housing and cam subassembly. Lubricate impeller bore. With a twisting motion, slide the impeller housing over the impeller. Be sure the direction the impeller blades are bent matches the direction of normal engine and pump rotation.
- 12) Fasten impeller housing to bearing housing with the three machine screws and washers (key 13 and 14).
- 13) Test pump following instructions under **Installation and Operation section above.**

\*If the roll pin hole cannot be aligned through pulley and shaft, drill a new 1/8" hole for roll pin at an angle as close to 90" from original hole as possible. Center punch pulley hub or file a flat spot on hub to ease start of drilling procedure. Position new hole so it does not pass through old hole.

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For technical advice or service please take your pump into your local pump service center.  
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