mercruiser
STERN DRIVES & INBOARDS

service bulletin

TO: SERVICE MANAGER ☐ TECHNICIANS ☐
PARTS MANAGER ☐

No. 95-13

Alpha One Generation II Over Heat

Models

ALL

Situation

Over heat condition on Alpha One Generation II at 3000 RPM and above.

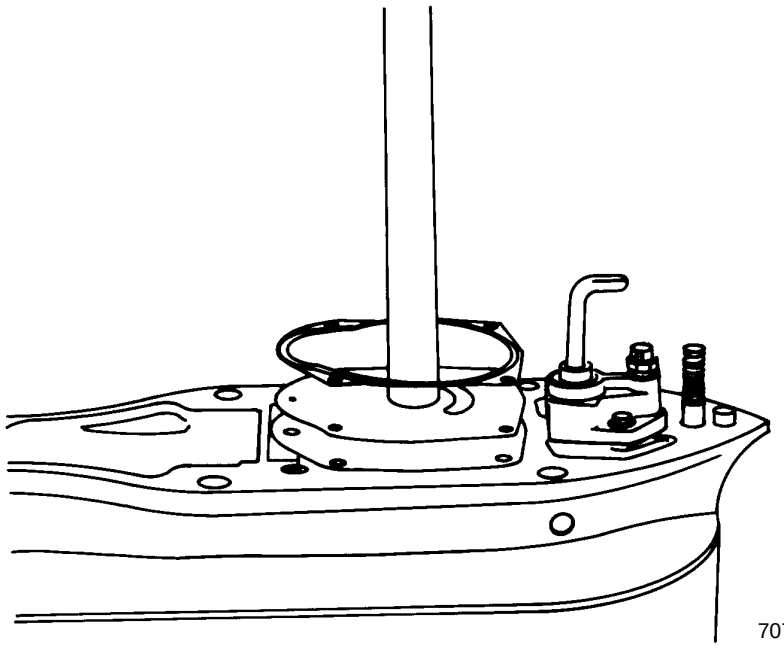
Trouble Shooting

Connect a clear plastic hose from the thermostat housing to the bottom of the exhaust manifold on the starboard side of the engine. Take the boat out and water test it. Watch the clear hose for air bubbles at around 3000 rpm and above. If the hose starts to fill with air bubbles, observe it until it is about two thirds air bubbles and one third water. Watch the temperature gauge. It should begin to show an increase in temperature. If no air bubbles appear and the water in the hose stays solid with no air, you need to check other parts of the engine or transom.

Correction

Remove the drive from the boat, and separate the gear housing from the drive shaft housing. Remove the water pump top, impeller, gaskets and face plate. Reinstall with new gaskets and (impeller if required) using the following steps.

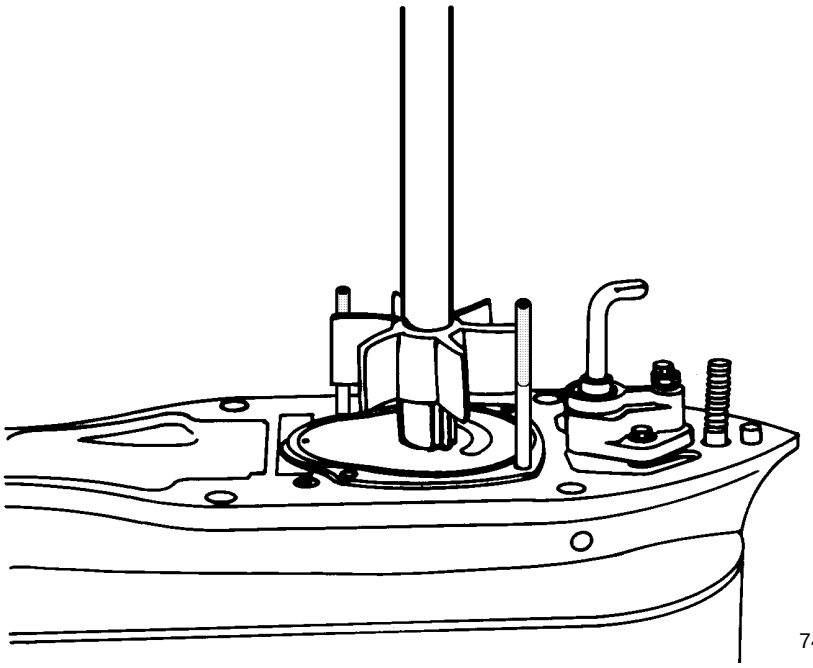
1. Coat the first gasket with Perfect Seal on the side that goes against the gear housing.
2. Place the face plate on top of the base gasket.
3. Place the top gasket on top of the face plate.



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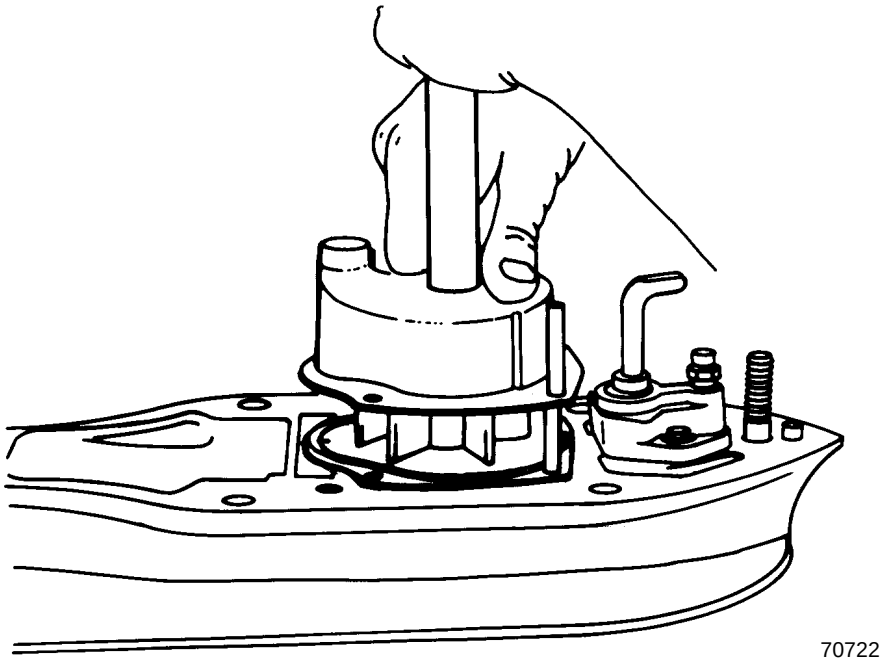
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4. Install the water pump alignment pins (91-821571A1) at this time to make sure that the water pump top does not contact the drive shaft.



5. Install the impeller key. Lightly lubricate the impeller with 2-4-C Marine Lubricant with Teflon before installing over the shaft. If reusing the impeller, make sure that it is installed with the “vane set” in the same direction as the unit turns to eliminate possible damage to the impeller vanes.

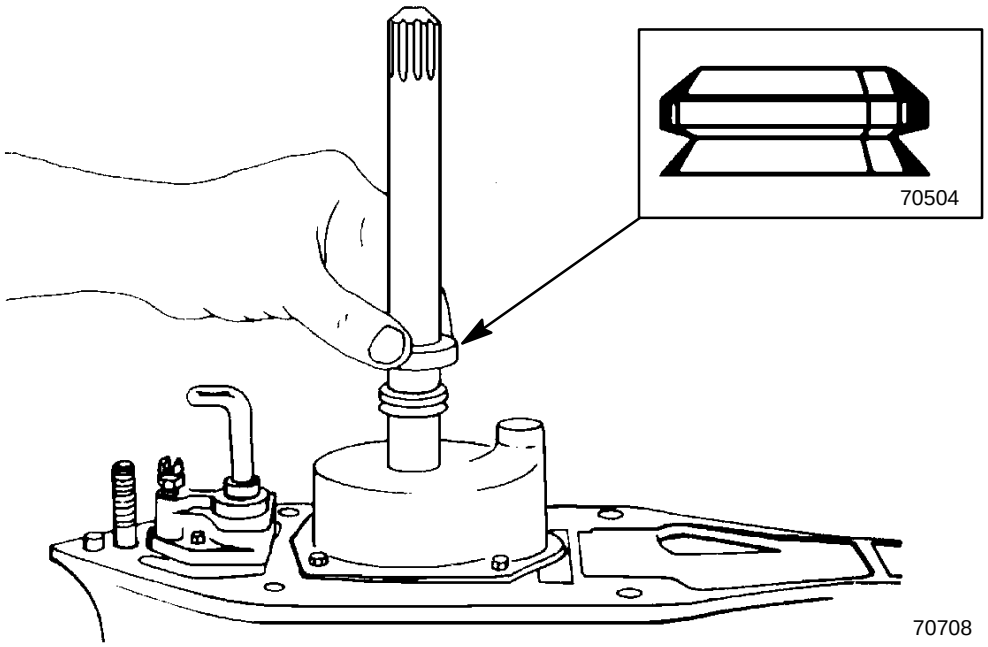
6. Reinstall the water pump top over the water pump alignment pins while turning the drive shaft in the direction that the unit turns normally.



7. With the alignment pins still in place, install two of the four water pump screws and torque to 60 lb. in. (6.7 N·m). Remove the alignment pins. Install the remaining screws and torque them to 60 lb. in. (6.7 N·m).

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8. Lightly lubricate the drive shaft with 2-4-C Marine Lubricant with Teflon. Place the face seal over the shaft. Use the installation tool that comes with a new face seal to position the seal at the proper height.



9. Lightly lubricate the O-rings in the water tube coupling with 2-4-C Marine Lubricant with Teflon. Assemble the water tube sleeve into the water tube coupling.
10. Assemble the water tube coupling assembly to the water pump ensuring that the O-rings are not damaged during assembly.

Warranty

Fill out warranty claim and send it to your normal warranty processing center.

Warranty Code and Labor:

MD30	2.0 Hours

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