



YANMAR AMERICA SERVICE ADVISORY

Advisory Number: YASA2011- 003 -M

THIS ADVISORY APPLIES TO: Construction Industrial X Marine

DATE: March 15, 2011

TO: All Distributors and Dealers

SUBJECT: Heat Exchanger Miss-assembly

MODEL(S): 4JH4-TE, 4JH4-THE, 4JH4-HTE and 4JH3-DTE

Yanmar America Corporation wishes to inform all its Distributors and Dealers of a procedure for investigating customer complaints of possible overheating issues on the above listed engines.

Yanmar has received and investigated several complaints of possible overheating from customers in the field. In that investigation Yanmar has found some failures were caused by a miss-assembled heat exchanger core. Before removing the core for inspection please review the following points:

- Check the coolant level to ensure the proper level is in the engine before operating.
- Check the coolant ratio/concentration (coolant to water) and record.
- Visually check the sensor wiring.
- Run the engine and check for air or blockage in the system.
- Check for air bubbles for a possible head gasket leak
- Manually check the coolant temperature and confirm the complaint.
- Check the temperature sensors.
- Check Sea-water flow and the sea-water side for blockage.

Once you have determined these areas are correct please move to the next section.

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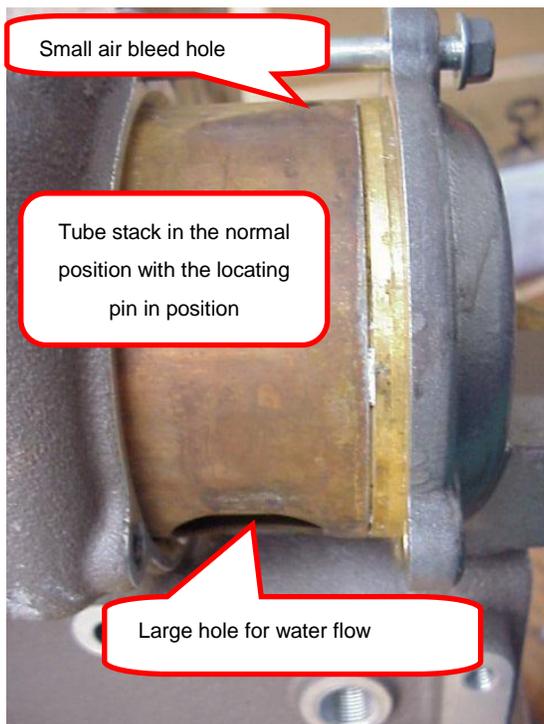
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Only after you have check all the above mentioned items and confirmed there is a high coolant temperature situation above the normal operating range for the engine. Please remove the heat exchanger core for inspection.

Perform the following to remove and inspect the core once the engine has cooled down:

- a. Drain the fresh and raw waterside of the engine down into suitable containers and dispose of properly.
- b. Remove the inlet and out let caps from the heat exchanger
- c. Before removal, mark the core assembly and the heat exchanger with a line for reference.
- d. Slowly push the core assembly out of the housing in a straight line.
- e. Check and see if the air bleed hole is positioned at the top of the heat exchanger, see photo 1.





- f. Check the alignment between the outer copper housing and the tube stack, see photo 2. The core may turn on the tube stack.



- g. If the tube stack is not aligned properly or the outer housing turns on the tube stack please replace complete the complete heat exchanger assembly (129672-44900). The old parts need to be returned to Yanmar through standard warranty return procedures.

Yanmar will not pay for misdiagnosed tube stack replacements. You should only remove the tube stack for inspection after all other checks have been completed and all other systems are working properly.

If you have any questions with this procedure please contact your Local Regional Distributor.