merCruiser STERN DRIVES & INBOARDS

service bulletin

TO: SERVICE MANAGER ☐ TECHNICIANS ☐
PARTS MANAGER ☐

No. 95-15

MerCruiser MCM D7.3L Diesel Overheat

Models

MCM D7.3L Diesels

Condition

Engine coolant temperature gauge indicates engine is overheating, but no other apparent symptoms of an overheat condition exist.

Recommendation

If there is a report of an overheat condition the standard troubleshooting procedures should be used to determine the problem. If no problem is found when troubleshooting the coolant system the following steps should be taken:

1. Drain engine coolant to a level below the audio warning switch location in the port cylinder head.
2. Disconnect the wire from the audio warning switch and remove the switch from cylinder head.
3. Install a suitable thermocouple device in place of the audio warning switch and follow manufacturer's instruction's for usage.
4. Generally, operate the engine in gear at Wide-Open-Throttle (WOT). Record the temperature reading. If gauge is shown to be faulty (inaccurate) replace the gauge with a new gauge (Quicksilver Part Number 79-805288A1).

Specifications

COOLANT TEMPERATURE	
170° - 210° F	77° - 99° C

If above test shows gauge to be accurate do the following:

1. Disconnect seawater hoses from both ends of the power steering cooler.
2. Install a suitable flow meter between both ends of the hoses and tighten clamps securely.

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3. Follow flow meter manufacturer's instructions for usage. Generally, operate the engine in gear at various RPMs shown in chart, including Wide-Open-Throttle. Record the flow meter readings. If seawater flow is less than the required seawater pump delivery rates (flow), then a Transom Water Pickup Kit (Quicksilver Part Number 88845A2) should be installed. This kit will increase seawater flow to the engine.

Specifications

SEAWATER PUMP DELIVERY RATES (Flow)	
ENGINE RPM	**U.S. GALS. (LITERS)**
1000	10 (37)
2000	20 (76)
3000	30 (114)
3400	34 (129)

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