



MERCUISER SERVICE BULLETIN

Section: XII (Bulletins)

Number: 70-15-11

Date: 7/10/70

Cut individual items along broken lines and attach in appropriate sections of your MerCruiser Service Manual.

- A. Exhaust Manifold Condensation - MerCruiser 225 (Sec. VIII)
- B. Exhaust Manifold Water Flow Reversal Kits (Section X)

A. EXHAUST MANIFOLD CONDENSATION - MerCruiser 225 Stern Drive Engines (For Engine Mechanical Section VIII)

Occasionally, a MerCruiser 225 Stern Drive Engine will run rough when operated at slow speeds for long periods of time. This condition may be caused by condensation which forms in the exhaust manifolds, enters Nos. 7 and 8 cylinders and water-fouls the spark plugs.

If such a situation occurs -- and it is determined that water DID NOT enter the cylinders via the exhaust system -- a Thermostatically-Controlled Manifold Cooling Kit (B-57843A2) should be installed on the engine. When installed, this kit will raise the manifold temperature and prevent condensation from forming.

B-57843A2 Thermostatically-Controlled Manifold Cooling Kit \$ 25.00 Net U.S.
Flat Rate Labor Time Allowance: 2.0 Hours

B. EXHAUST MANIFOLD WATER FLOW REVERSAL KITS (For Miscellaneous Section X)

Under certain operating conditions, exhaust manifolds have cracked on some MerCruiser 225-250-270 and 325 Inboard Engines. This problem is caused by a steam pocket which forms in the manifold water jacket.

To guard against this possibility, the water flow in the exhaust manifold must be reversed on certain engine applications. The following water flow reversal kits are available and should be installed on the engine applications shown:

B-52837A3 Water Flow Reversal Kit

For MerCruiser 225-250 and 270 Inboard Engines, which are equipped with B-52965A1 fresh water cooling, and MerCruiser 325 Inboard Engines, which are equipped with B-52966A1 fresh water cooling that have an installed angle of 5° or more, and the rear (transmission end) of the engine is lower than the front.

Flat Rate Labor Time Allowance: 0.5 Hour

B-52837A2 Water Flow Reversal Kit

For MerCruiser 225-250-270 and 325 Inboard Engines without fresh water cooling that have an installed angle of 5° or more, the rear (transmission end) of the engine is lower than the front and are subject to heavy loading below 2500 RPM.

Flat Rate Labor Time Allowance: 1.0 Hour

NOTE: The above kits should be installed on all MerCruiser Inboard Engine installations which fall into the categories described previously.