



MERCRUISER SERVICE BULLETIN

Section: XII (Bulletins)

Number: 68-8/04

Date : 2/28/68

Cast Iron Exhaust Manifold Exchange

CAST IRON EXHAUST MANIFOLD EXCHANGE

All production MerCruiser 120 and 160 models now are utilizing cast iron manifolds. While more costly to manufacture than aluminum manifolds, cast iron exhaust manifolds can better withstand the corrosive action of salt water and sulphuric acid deposits than aluminum manifolds. Sulphuric acid, a by-product of the exhaust gas, varies in strength according to the sulphur content of the gasoline used. Like the muffler on an automobile, the corrosive action of sulphuric acid deposits eventually will erode the aluminum in the area in which it settles.

When an aluminum manifold body requires replacement caused by salt water corrosion, it usually necessitates a new water jacket cover, manifold baffle plate, thermostat container, water inlet cover assembly and manifold gasket set. These parts, plus labor, amount to approximately \$70.00 for a 4-cylinder aluminum manifold and \$110.00 for the 6-cylinder aluminum manifold.

You can observe that, for a few more dollars, your customer can have the advantages of the cast iron exhaust manifold assembly.

Aluminum manifold bodies are no longer a production part, therefore, the replacement cost will increase considerably, with a corresponding increase in the list price. In view of this, the aluminum bodies no longer will be offered, however, all other components still are available. Kiekhaefer Mercury feels that the pronounced benefits of cast iron exhaust manifolds be passed on to MerCruiser owners. The following exchange program, therefore, has been established:

1. Any four (4) or six (6) cylinder aluminum exhaust manifold on any MerCruiser 110, 120, 140, 150 or 160 will be exchanged with a cast iron exhaust manifold assembly complete at a net price (see chart, following) within two (2) years of date of purchase of engine.

NOTE: When installing 6-cylinder cast iron manifold on MerCruiser 140 or 150 models with dual carburetion, it will be necessary to install the single carburetor modification kit (Part No. B-38981A2) at a net exchange price of \$33.00.

2. Aluminum manifold bodies, which necessitate replacement after the two year period, will require purchase of cast iron manifold assembly complete with no exchange allowance.
3. A Water Shutter Kit (Part No. B-46017A1), which is adaptable to all MerCruiser 4 and 6-cylinder models, should be installed in the flexible exhaust discharge hose when installing the new exhaust manifold assembly complete. This accessory must be ordered separately and lists at \$8.70.

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When installed in the flexible exhaust discharge hose just below the exhaust elbow, the Water Shutter Kit reduces the possibility that water will enter the combustion chambers of the engine under the following conditions:

- a. Turning off ignition while boat is underway (above idle speed).
- b. Throttling engine back suddenly so that engine stops.
- c. Racing engine just before turning off ignition.
- d. Launching boat stern first from a trailer at a steep angle.
- e. Overloading boat, thereby causing an extremely high water line at the transom.

This Exhaust Water Shutter Kit can be installed easily and in a few minutes, particularly since the manifold is already removed.

MANIFOLD PRICES

	List Price	Dealer Price	Exchange Customer Price	Exchange Dealer Price
6-Cyl.* 39922A6	183.75	121.28	120.00	94.87
4-Cyl. 39950A4	131.25	86.63	85.00	65.81

* See note on 140-150 dual carburetor conversion.