



MERCUISER SERVICE BULLETIN

Section: XII (Service Bulletins)
Number: 63-11
Date: 7/16/63

Boyer-Dunn, Wrs.
U.S.A.

- A. New Fuel Return Line
- B. Intake Manifold Cover Leakage
- C. Oil Pressure Gauge
- D. Service Manual Revised Material

A. NEW FUEL RETURN LINE

(For P. 4 of Fuel System & Carburetion Section VII)

("Hot Start" Problem Remedy)

Current MerCruiser "110" production provides for a new fuel return system. Excessive fuel volume, created by a temperature rise in the engine compartment, is returned from the inlet side of the carburetor (Figure 1A) to a bleed fitting which is located in front of the fuel filter and fuel pump (Figure 1B).

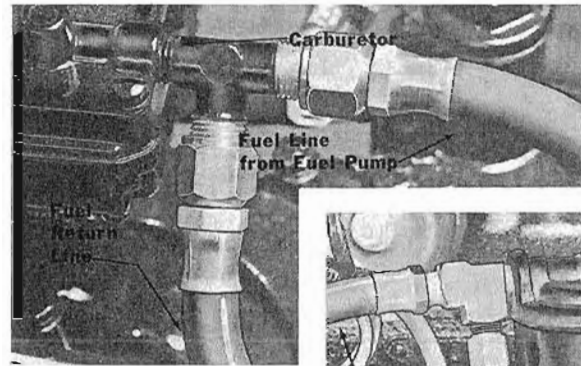


Figure 1A

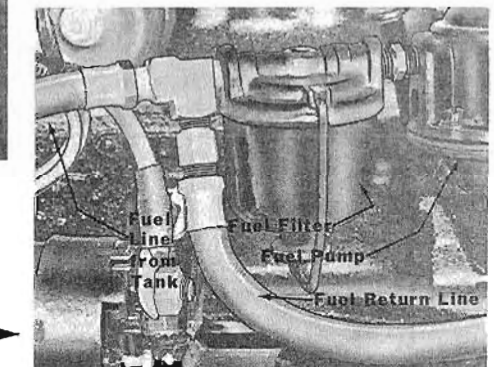


Figure 1B

The new system will eliminate the necessity of long fuel return line which was formerly required to return excess fuel volume to the fuel tank. It can be installed on earlier MerCruiser "110" engines where the "Hot Start" problem is encountered because of inadequate ventilation or tightly sealed engine compartments which cause temperatures to rise very high on a hot day.

MerCruiser "110" (Serial No. 1632284 & above) employ the new fuel return line system. It is no longer required on the MerCruiser "140".

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Fuel Return Line Assembly

B. INTAKE MANIFOLD COVER LEAKAGE

(For Item "7", P. 5 of Engine, Tuneup Section III)

Several cases of intake manifold cover leakage have been reported on MerCruiser "140" engines. Intake manifold cover was sealed to manifold with gasket sealer on earlier MerCruiser "110" and "140" models, while later models use a gasket.

A leaking manifold cover is identified by the inability to adjust the carburetor to recommended idle RPM. Engine has tendency to idle anywhere from 700 to 1700 RPM.

Leakage is indicated when oil or fuel oil is sucked into manifold after placing the liquid along, intake manifold cover to manifold seam. To correct leaking condition, install the appropriate new intake manifold cover to manifold gasket:

- 27-34047 Gasket, intake manifold cover ("110" engine, Serial No. 1564341 and above)
- 27-34067 Gasket, intake manifold cover ("140" engine, Serial No. 1539848 and above)

In an emergency, if gasket is not available, reseal surfaces with Perfect Seal No. 4 (92-34227, 1 pt. can, \$2.40)

(OVER)

C. OIL PRESSURE GAUGE

(For P. 13 Installation Section II)

If AC Oil Pressure Gauge (32829) indicates 80 PSI with the ignition switch in the "On" position, but the engine is not running, this indicates that an open circuit exists between the oil pressure sender and the oil pressure gauge.

Check connections at the oil pressure gauge, terminal block and oil pressure sender. If unable to locate difficulty, check entire orange wire for resistance.

This gauge is used on MerCruiser engines, serial numbers as follows:

MerCruiser "110" - 1565943 & below
1566082 thru 1602979

MerCruiser "140" - 1566118 & below

MerCruiser "190" - 1604310 & below

MerCruiser "225" - 1632307 & below

D. SERVICE MANUAL REVISED MATERIAL

(For All Sections)

In the future, all revised printed material will have a black line on the left hand margin (as shown to the left of this paragraph) to designate revised or new information. It will not be present if an entire new page is added to the manual.

This will aid in emphasizing the latest repair procedures and save time by eliminating the necessity of studying the entire page to locate new material.