MERCRUISER STERN DRIVES

SERVICE BULLETIN

Section : 10 (Bulletins)
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FUEL LEAKAGE on 215 INBOARD ENGINES

(Serial No. 3415950 and Below)

With an INSTALLED ANGLE over 10°

(Attach Bulletin Reference Sticker to P. 4B-38 in Your Service Manual.)

An accumulation of gasoline on the intake manifold of 215 Inboard Engines (Serial No. 3415950 and below) with an installed angle over 10°, can be caused by a leaking fuel inlet fitting and/or improperly tightened carburetor wedge attaching nuts.

A leaking fuel inlet fitting usually results in raw fuel accumulating in front of the carburetor on the intake manifold. Improperly tightened carburetor wedge attaching nuts result in fuel accumulation at the rear of the carburetor on the intake manifold. This is caused by fuel which fills a cavity in the intake manifold under the carburetor wedge during engine operation. When this cavity has filled with fuel and the engine is shut off, loss of manifold vacuum allows the fuel to leak out at the rear of the wedge past the gasket.

NOTE: Always check entire fuel system for leaks and/or loose connections.

If a fuel leak is found at the carburetor inlet fitting, proceed as follows:

1. Disconnect fuel inlet line from carburetor.
2. Inspect carburetor inlet fitting on fuel line. If inlet fitting is cracked, stripped or damaged in any way, replace the fuel line.
3. Apply a thin coat of Perfect Seal (C-92-34227-1) to threads of fuel inlet fitting. Reinstall inlet fitting in carburetor and tighten securely.

If a fuel leak is found at rear of carburetor wedge, proceed as follows:

NOTE: Use following new procedure whenever carburetor is removed from engine.

1. Remove carburetor and wedge from engine.
2. Remove carburetor from wedge and discard carburetor to wedge and wedge to intake manifold gaskets. Clean gasket surfaces thoroughly.
3. Inspect carburetor wedge and intake manifold mounting studs thoroughly to be sure that threads are not stripped. If necessary, replace with new studs.
4. Coat entire wedge mounting surface of intake manifold thoroughly with Perfect Seal (C-92-34227-1). (Figure 1)

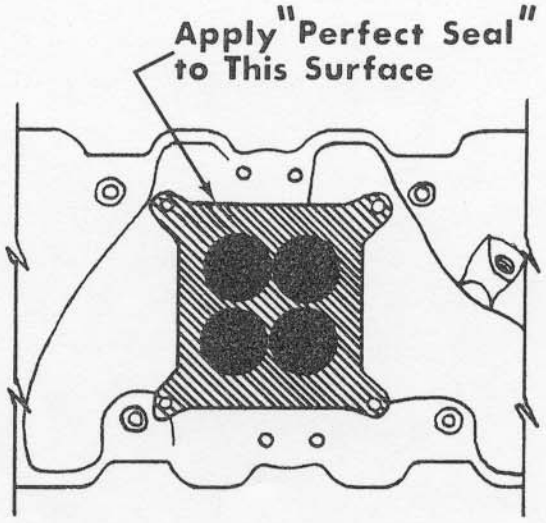

Figure 1. Intake Manifold Surface

(OVER)

5. Place a new gasket (C-27-56884) on intake manifold.
6. Place carburetor wedge on intake manifold.
7. Using a new gasket (C-27-56884), place carburetor on top of wedge.

CAUTION: DO NOT re-use new style nuts, as locking quality is lost when re-used. Be sure to use new style carburetor and wedge attaching nuts (C-11-46793). DO NOT use old style nuts for this application. (Figure 2)

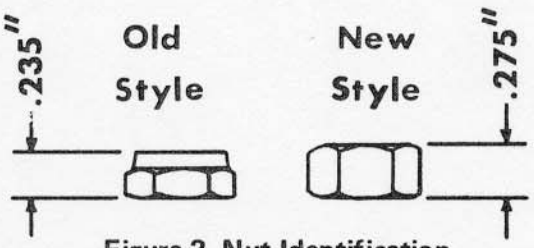

Figure 2. Nut Identification

8. Install new nuts on mounting studs and, tightening from corner to corner, torque to 22 ft. lbs. (3.04mkg).
9. Reinstall and adjust carburetor linkage.
10. Place "T" mark on manifold behind carburetor to indicate that carburetor wedge nuts have been changed and/or fuel leak inspection has been made.

Part Number	Description	Quantity
C-11-46793	Nut @25	6
C-16-20077	Stud (1¾")	AR
C-16-53579	Stud (1-9/16") @2	AR
C-16-46857	Stud (7/8") AR	AR
C-27-56884	Gasket @5	2
C-92-34227-1	Perfect Seal	AR

AR = As Required

Labor Rate Allowance (If Corrective Action Is Required):

Remove and Replace Fuel Line	0.2 Hrs.
Remove and Replace Gaskets	0.6 Hrs.
Remove and Replace Gaskets and One Stud	0.7 Hrs.
Each Additional Stud	0.1 Hrs.