

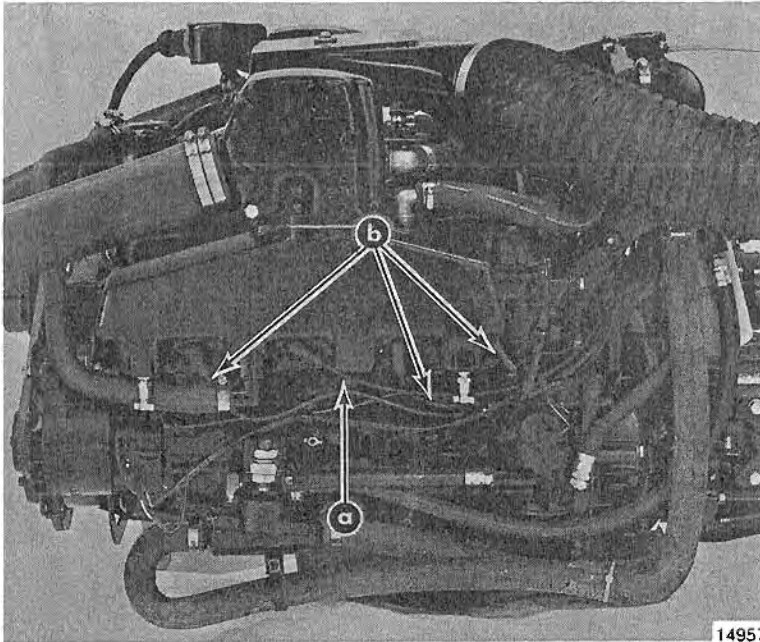
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Spark Plug Wire Routing on MerCruiser Engines  
Equipped with Rear Mounted Closed Cooling Systems  
- MIE 340 Models

CIRCULATE TO:  
SERVICE MANAGER  
PARTS MANAGER  
MECHANICS

Care must be taken when installing the Rear Mounted Closed Cooling System on the above model MerCruiser engines. If the spark plug wires are not positioned correctly, they can be too close to exhaust manifolds or actually lay against the manifolds causing the wire insulation to burn. (Figure 1)



a - Incorrect  
(Too Close to  
Exhaust Manifold)  
b - Correct

**Figure 1. Spark Plug  
Wire Positioning**

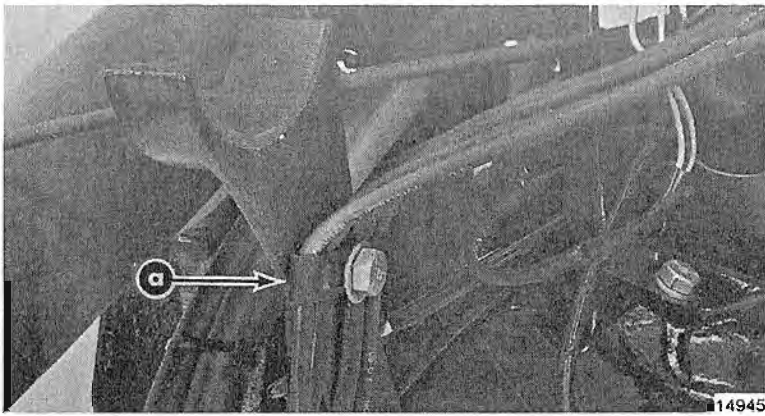
Inspect all MerCruiser MIE 340 engines that are equipped with a Rear Mounted Closed Cooling Systems. If the spark plug wires are not positioned correctly, proceed with the following:

1. Make sure wires are routed between oil dipstick tube and cylinder block.
2. Loosen spark plug wire retainers on heat exchanger bracket. (Figures 2 and 3) Pull "slack" in spark plug wires TOWARD spark plugs. Retighten retainers and recheck positioning of wires.



a - Retainer

**Figure 2. Starboard Spark  
Plug Retainer**

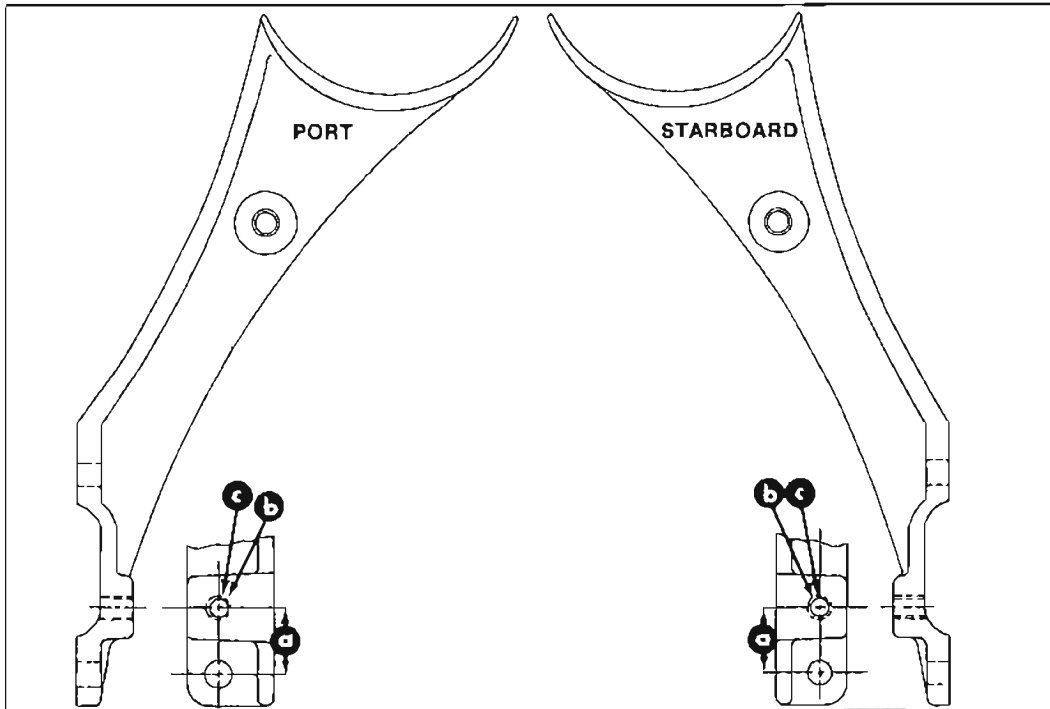


a - Retainer

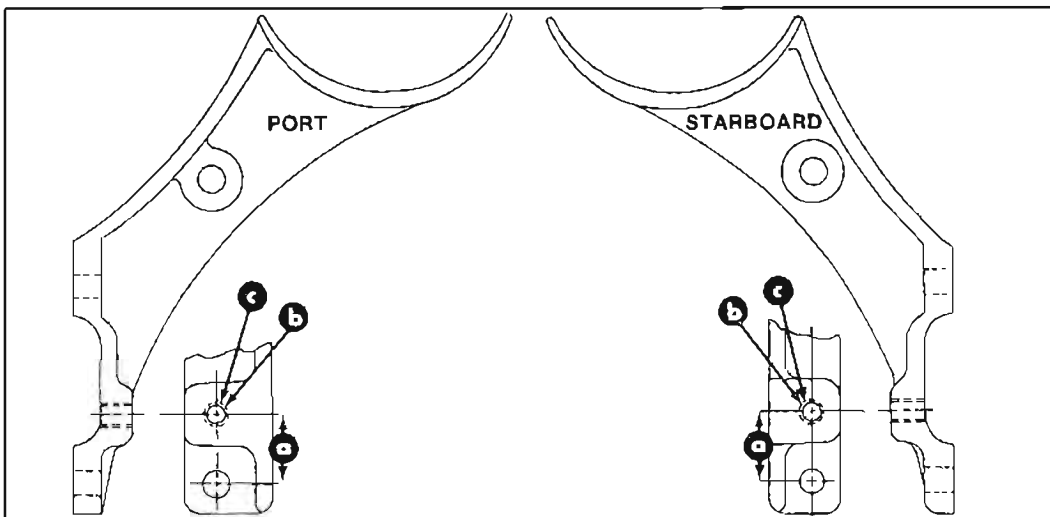
**Figure 3. Port Spark Plug Retainer**

3. If enough slack cannot be obtained in Step 2, relocate spark plug wire retainers as shown in Figure 4 or 5. (28.6 mm)

- a. Measure up  $1\frac{1}{8}$ " (3.12 cm) from bottom heat exchanger bracket mounting bolt.
- b. Drill  $\frac{3}{8}$ " diameter hole.
- c. Thread hole with  $7/16$ " - 14 UNC tap.
- d. Reposition retainer to new mounting hole using original bolt and washer.



**Figure 4. Modifying Heat Exchanger Brackets On In-Line Transmissions**



**Figure 5. Modifying Heat Exchanger Brackets On V-Drive Transmissions**