



Gear Housing Removal

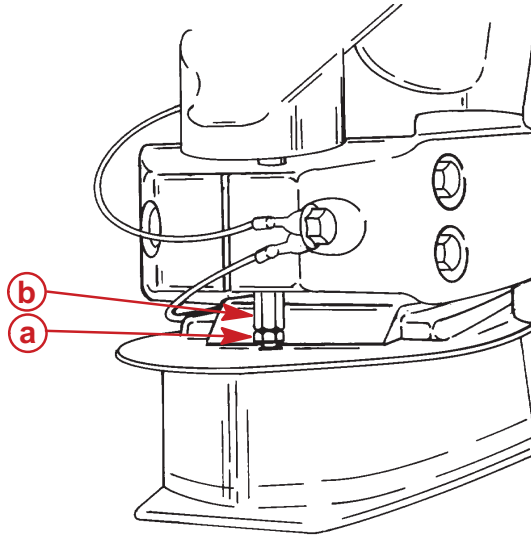
WARNING

To prevent accidental engine starting, remove (and isolate) spark plug leads from spark plugs before removing gear housing.

1. Remove (and isolate) spark plug leads from spark plugs.
2. Shift into NEUTRAL.
3. Loosen jam nut. Unscrew attaching nut to separate shift shaft.

2-Stroke Models

MERCURY/MARINER 30/40, AND 40/50,
FORCE 40/50



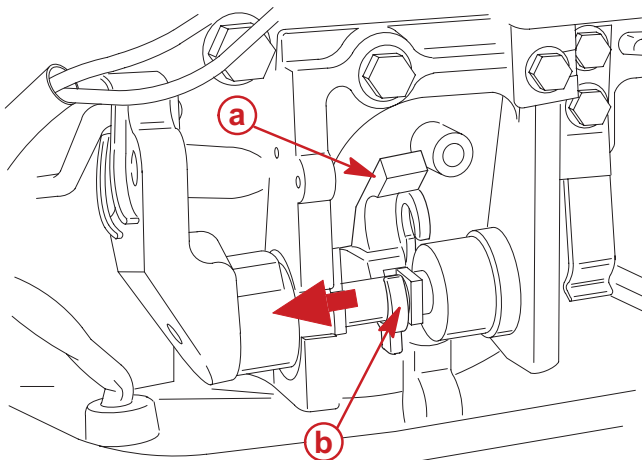
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- a** - Jam Nut
b - Attaching Nut



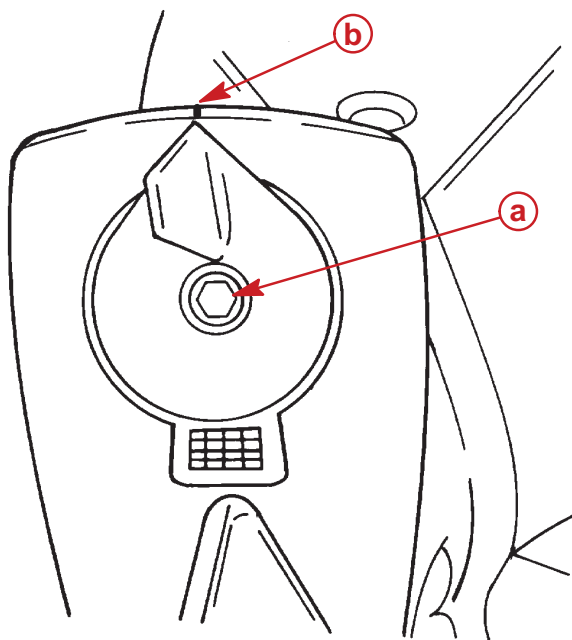
4-Stroke Models

MERCURY/MARINER 25, 45/50



- a** - Retainer
- b** - Lower Clip

4. Make a scribe line showing alignment of trim tab to gear case and remove trim tab screw and washer.

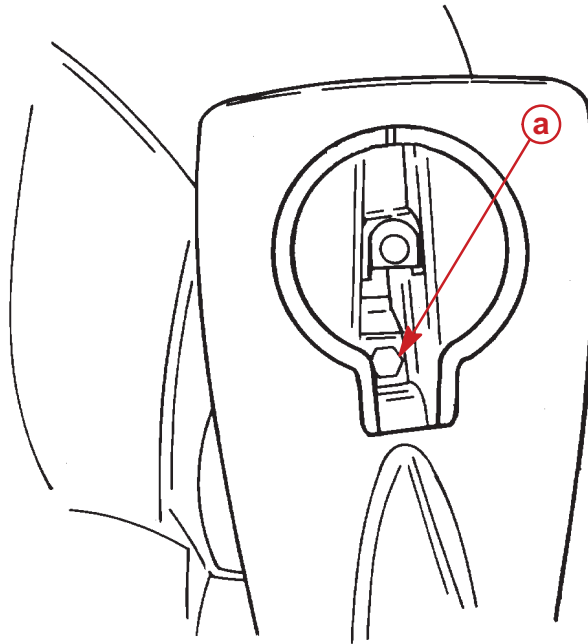


- a** - Screw and Washer
- b** - Scribe Line

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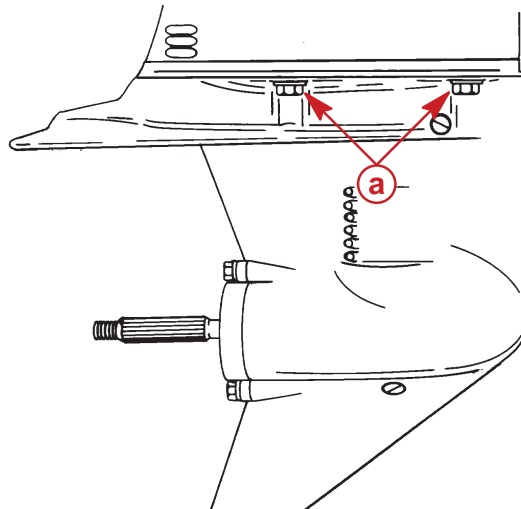
5. Remove nut and washer in trim tab cavity.



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a - Nut and Washer

6. Remove 4 screws securing gear case to drive shaft housing.



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a - Screw (4)

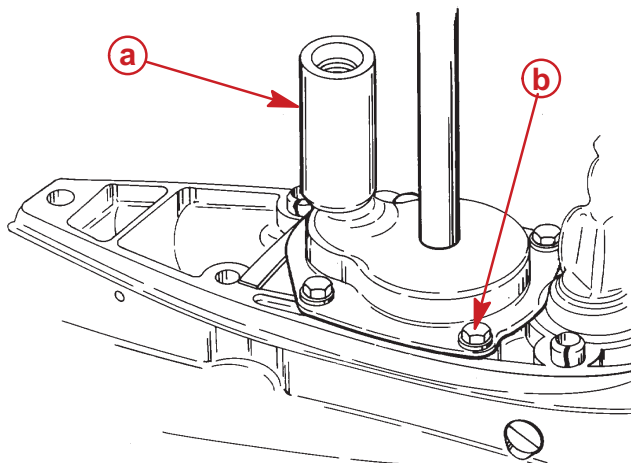


Disassembly

Water Pump

NOTE: If water tube seal remained in drive shaft housing, remove seal from housing and reinstall on water pump cover. Secure seal to cover with Loctite 405.

1. Remove 4 screws securing pump cover.



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- a** - Seal
- b** - Screw (4)

NOTE: Replace cover if thickness of steel at discharge slots is 0.060 in. (1.524mm) or less, or if groove(s)(other than impeller sealing groove) in cover roof are more than 0.030 in. (0.762mm) deep.

2. Remove cover, washer (above impeller), impeller, key and washer (below impeller).