

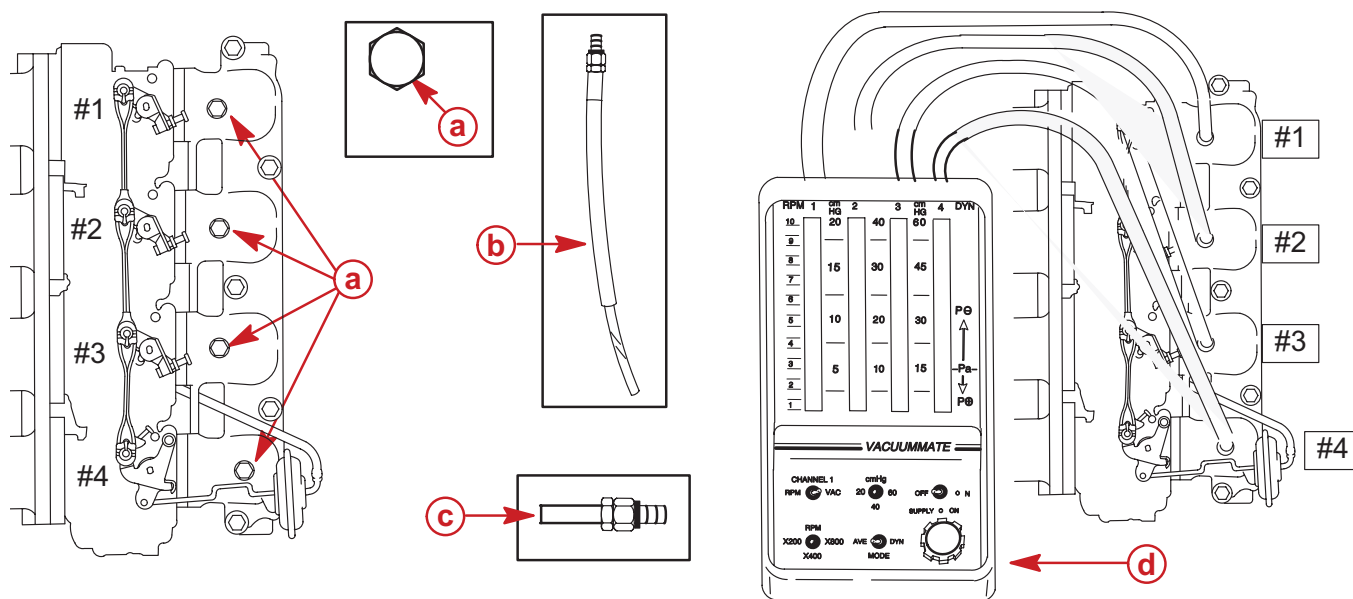


Carburetor Synchronization

NOTE: The carburetors are synchronized by adjusting the intake manifold vacuum on the carburetors. Use Carburetor Tuner (91-809641A1) or Vacuummate Tuner (p/n 91-809871--1) to measure the vacuum.

1. Remove four plugs from the intake manifold.
2. Install intake manifold hose adaptor in each plug hole. Tighten securely.
3. Connect the Carburetor Tuner to the hose adaptors.
4. Install filters to prevent mercury being drawn into carburetors during an abrupt throttle change.

NOTE: Intake manifold hose adaptors are provided with the Carburetor Tuner.



- a** - Intake Manifold Plugs (4)
- b** - Intake Manifold Hose Adaptor (4) From Vacuummate Carb. Tuner
- c** - Intake Manifold Hose Adaptor (4) From Mercury Filled Carb Tuner
- d** - Vacuummate Carb. Tuner (91-809871--1)

CAUTION

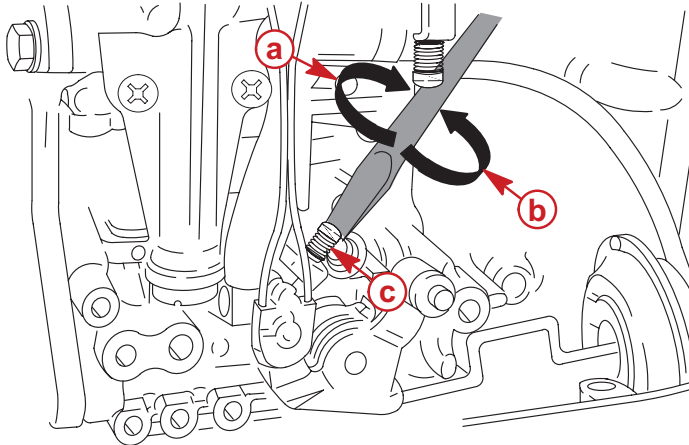
Do not run engine at high rpm or abruptly change throttle position when using the old style liquid mercury filled carburetor tuner (p/n 91-809641). The possibility exists of drawing liquid mercury from the carburetor tuner into the engine during high rpm running or an abrupt throttle change. Installing filters (4) (p/n 35-18206) in each line will help to prevent liquid mercury from being drawn into carburetors during an accidental abrupt throttle change.



5. With the outboard in water, start engine and allow to warm up.
6. Shift the outboard to neutral.
7. Connect a tachometer onto the spark plug lead of cylinder #1.
8. Adjust engine idling speed to 1000 rpm by turning the throttle stop screw on carburetor #4 in direction "a" or "b".

NOTE: Turning idle speed adjustment screw:

- **clockwise (direction "a") will increase engine idling speed**
- **counterclockwise (direction "b") will decrease engine idling speed.**



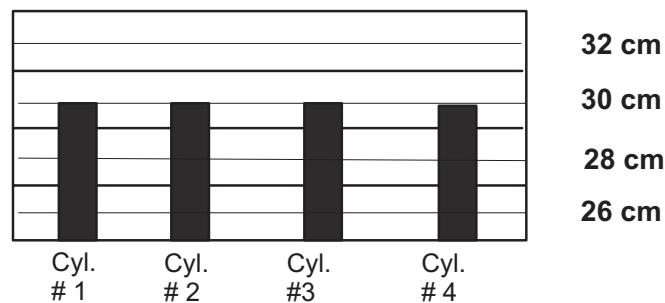
- a** - Engine Idling Speed Increases
- b** - Engine Idling Speed Decreases
- c** - Throttle Stop Screw

9. Measure the vacuum pressure of carburetor #4. It's not important to be at any specific vacuum setting.
10. Turn the throttle valve adjusting screws so the vacuum pressure of carburetors #1, #2, and #3 are the same as carburetor #4.

NOTE: Keep viewing the tachometer, as the engine rpm may fluctuate during adjustments. Keep adjusting the idle rpm screw in order to keep the engine speed at the 1000 rpm.

Example

If the vacuum reading of Cyl. #4 (base vacuum) is 30 cm, then adjust carburetor synchronization screws of cylinders #1, #2 and #3 to 30 cm.



11. Rev engine a few times and let engine idle for 15 seconds. Check that the vacuum values remain within 5 cm Hg (67 m bar, 1.97 in Hg) of each other. Re-adjust if necessary.