

# Method for Proper Valve Clearance Adjustment

## E-Z-GO Gas Golf Car with 295cc Twin-Cylinder OHC Engine

**WARNING:** Always wear ANSI approved safety glasses when using power or hand tools and when adjusting valve settings.

**WARNING:** Turn off the ignition and remove the key to ensure that the starter is not accidentally engaged.

When the valve clearance is not within specifications the engine will lose power and become hard to start. If the valve clearance is excessively out of specification, the engine will fail to start. When the engine fails to start due to misadjusted valves, a faint coughing sound can usually be heard from the intake, when the engine is cranked.

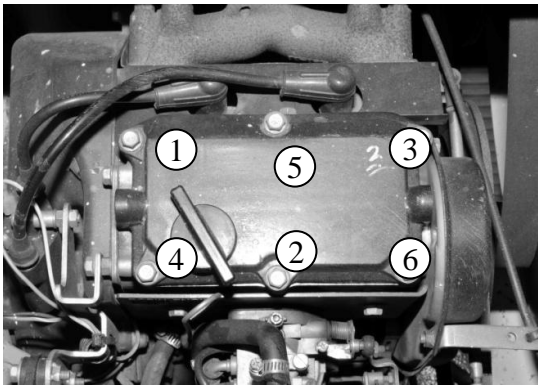
Incorrect valve clearance is a very common problem with this engine. Valve adjustment should be performed if the engine cranks but fails to start and the ignition system is operational. Also, perform a valve adjustment every second oil change. The correct setting is 0.004" between the rocker arm and the camshaft lobe with the tip of the camshaft lobe pointing down.

**NOTE:** The valve clearance is *critical* for proper engine operation. Care should be used when adjusting the valves.

### **Method:**

1. Turn the ignition off and remove the key.
2. Remove the seat.

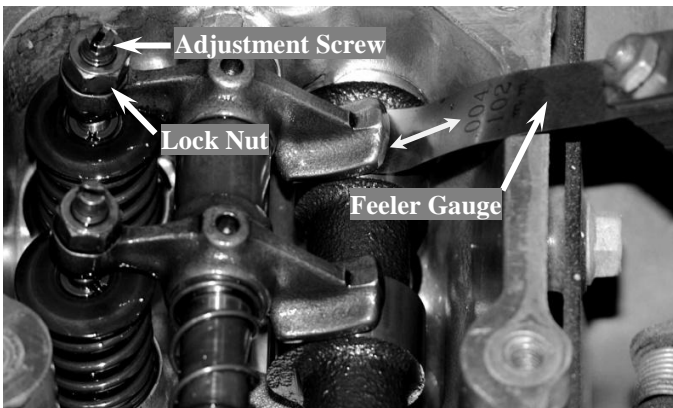
3. Release the bolts in the camshaft cover following the pattern shown in **Figure 1**.



**Figure 1**

**CAUTION:** DO NOT turn the engine with the starter while the camshaft cover is removed. Oil will spray out of the engine!

4. Turn the engine by hand until the tip of the camshaft lobe points toward the bottom of the engine.
5. Loosen the lock nut on the rocker arm. (See **Figure 2**)
6. Insert a 0.004" feeler gauge between the rocker arm and the cam lobe. Turn the adjustment screw while moving the feeler gauge in and out until a slight resistance is felt on the feeler gauge. (See **Figure 2**) **Note:** Turning the adjustment screw clockwise will reduce the clearance and turning it counterclockwise will increase the clearance.
7. Try to insert a 0.005" feeler gauge. If it *can* be inserted, readjust the clearance using the 0.004" feeler gauge.



**Figure 2**

8. Hold the adjustment screw and tighten the lock nut at the same time.
9. Recheck the clearance and readjust if necessary.
10. Following steps 4-9, adjust the clearance for the remaining valves.
11. Reattach the valve cover using the tightening sequence in **Figure 1**.
12. Replace the seat.