



Valve Adjustment Procedure

This bulletin covers the following Champion Power Equipment models:

2.4 HP Gasoline Engine	9.0 HP Gasoline Engine
4.0 HP Gasoline Engine	11.0 HP Gasoline Engine
6.5 HP Gasoline Engine	13.0 HP Gasoline Engine

Note: Read instructions completely before performing service.

1. Remove the OHV cover using a 10mm socket, box or open end wrench.
2. Remove the spark plug wire from the spark plug. Remove the spark plug from the cylinder using the spark plug tool (provided with the engine) or a 14mm spark plug socket.
3. **INTAKE VALVE CLEARANCE:** Position the piston at the TDC (Top Dead Center or highest point) of the compression stroke of the engine by slowly pulling the recoil starter until the intake valve spring is compressed and continuing until it relaxes to its original length. Use a medium length screwdriver placed in the spark plug hole to feel when the piston reaches the highest point.
4. Using the 0.006" blade of a feeler gauge, check the clearance between the rocker arm and the valve stem (topmost part of spring collar). If the 0.006" blade will not fit, the valve is too tight. If the 0.006" blade fits too easily, the valve is too loose. Intake valve clearance: 0.005-0.007".
5. At the top of the rocker arm assembly on each valve, you will find a locknut and a larger adjustment nut beneath it (Note – 2.4 HP engine has a locknut with adjustment bolt). Loosen the locknut and turn the larger adjustment nut until the 0.006" blade will fit in the clearance point between the rocker arm and the valve stem. Hold the adjustment nut from turning with one wrench and tighten the locknut another.
6. **EXHAUST VALVE CLEARANCE:** CPE engines are equipped with a compression release on the camshaft. Pull the recoil starter slowly $\frac{1}{2}$ - $\frac{3}{4}$ rotations past TDC to clear the compression release mechanism. Check and adjust the exhaust valve clearance using the 0.008" blade of the feeler gauge, following the instructions in step 5. Exhaust valve clearance: 0.007-0.009".
7. Re-install the OHV cover on the engine. Re-install the spark plug and attach the spark plug wire.

If you have any questions, please contact Champion Power Equipment:

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