

Big Block Engine Governor Adjustment

This bulletin covers the following Champion Power Equipment models:

270cc – 439cc Gasoline Powered Engines

Note: Read instructions completely before performing service.

1. Our setting is done by removing the gas tank first. While standing in front of the control panel side of the generator, identify where the governor arm and shaft are located. Now loosen up the pinch bolt at the point where the governor shaft exits the engine. Be sure that the governor arm moves independently from the governor shaft.
2. Once the bolt is loose, rotate governor shaft to counter-clockwise with needle nose vice grips until it stops. Next, push the governor arm in a counter-clockwise position until stops. Then, with pressure applied to both the arm and shaft, pinch the bolt to hold those positions. You have now set the governor in its standard setting. Upon needing an increase in RPM to compensate for more load, the governor should now move the throttle rod to add more throttle.

The engine should now run at a smooth, steady RPM which will create 61.5Hz. You can test to see if it's working by turning the fuel to OFF and then determine if the throttle rod moves to increase the throttle as the engine speed slows down from lack of fuel. It should start pulsating back and forth if it is working properly. The light weight spring needs enough tension on it to hold reduce the slack of the governor rod where it connects to the governor arm. Too much tension is no problem, too little is. If needed, you may tighten the spring by pulling the hook tighter, or cutting and making a new loop.

This should provide you with all the adjustment you can make. If you have a wide open throttle condition, you may have turned the setting too far the wrong way or you have a failure of the centrifugal weights in the nylon gear inside the engine. This will be a more serious condition to repair. Take your product to an authorized service center at this point.

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

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