

# Gasoline generator wind control throttle

How does eco throttle work?

Eco Throttle uses a load-dependant speed control-type governor to automatically adjust the engine speed to the optimum level. Because the engine does not have to run at full speed constantly, Eco Throttle reduces fuel consumption by up to 40%. It also helps to reduce exhaust emissions.

What is eco throttle TM?

Eco Throttle(TM) allows the generator's engine to automatically adjust the engine speed to produce only the power needed for the application in use. Traditional generators have to run at 3600 RPM to produce 60 hertz (cycle) electricity.

Is a 200 step motor enough for throttle control?

A 200 step per revolution motor is sufficient for throttle control if balanced with proper linkage. A geared stepper may work but when using a hard stop to set initial position may over torque the linkage and damage it. I would have set the linkage on this project for finer control. Throttle position must be determined for proper start.

What is a good throttle control KP?

Finer throttle control with quarter second (15 revolutions) RPM evaluation. Kp between 0.012 and 0.015. Ki 0.015 to 0.020 and dead banded. Dead banding is where small errors in the plant are ignored to keep down on too many control inputs. The integral term is steadily building even if RPM is off only a few RPM.

Is a butterfly valve a good way to regulate engine RPM?

Engines are difficult to regulate at low throttle settings. By looking at a butterfly valve it can be seen how small changes in throttle arm causes bigger changes in butterfly valve flow area (cross section) in the intake. Ultimately no load RPM governed very well. The main sketch is posted warts and all.

Should the integral term be kept if the throttle position is steady?

For example, if the current throttle position and generator load balance to 3570 RPM (0.5 hertz off) it would be better to hold this if steady than let the integral term keep. To prevent this do not add to the integral term if the RPM is within 30 of the setpoint.

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The governor spring wants to open the throttle and the governor tries to close the throttle. The interaction of the governor spring and mechanical governor holds the throttle at the desired ...

The most common generator problems are: Generator won't start; Generator starts and then dies; Generator is



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leaking gas; Generator bogs down under load; Take caution when performing repairs. Always remove the spark plug wire ...

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