



## The generator blades are loose



### Overview

The leading causes of the failure include insulation breakdown, bearing wear, which affects rotor alignment, electrical shorts in windings, moisture infiltration, and physical damage from debris. These complex issues require professional diagnosis and repair. Planned outages for gas-turbine-based peaking, cogeneration, and combined-cycle plants are scheduled based on the inspection and maintenance needs of the gas turbine/ generator as prescribed by the OEM (original equipment manufacturer). Owners of machines in regular use often schedule two outages. The lasers represent the shaft centerlines so the difference in the two lasers provide a measure of misalignment which is corrected at least two ways:

- The generator's mounting pads can be shimmed up or down to correct mis-alignment in those directions.
- The generator's "jack bolts" can be moved.

Gas turbines are powerful engines used in power plants and other industrial settings for efficient power generation. While they can't always be avoided entirely, their impact can be significantly reduced with quality components, regular servicing, and early intervention.



## Article Content

### Generac Generator Troubleshooting, Help, and Repair Forum

So lets say that you are out of power and you don't want the generator running at night to say gas cost. When you shut down the generator, you pull that fuse so it doesn't drain ...

### Why generators fail - Combined Cycle Journal

Problem: Partial discharge, sometimes called corona, is quite common in air-cooled generators. It is caused by a partial voltage breakdown within the ...

Misalignment, looseness, and imbalance are all correctable ...

These include generator fans, generator rotors, and couplings to name a few. The causes of an increase in imbalance can range from simple things such as debris build-up on ...

### Common Causes of Gas Turbine Failure | Allied ...

Explore common gas turbine failure root causes in power plants. Understand turbine blade & hot gas path issues for reliable power generation.

### Understanding Steam and Gas Turbine - ...

After several years in service, one of the fan blades liberated ...

### Understanding Generator Failure – 11 Causes ...

Generator failure can cause thousands to millions of losses. Learn the leading causes of failures and how to fix them.

### Common Troubleshooting Issues in Generators

Discover common generator issues and solutions to keep your generator running smoothly. Learn troubleshooting tips for reliable ...

### Generator fan blade loose : MGA Forum : The MG ...

I noticed a severe sounding rattle coming from the engine compartment recently. Finally tried to trace it down and discovered that ...

### Common Causes of Wind Turbine Failures (and ...

One of the most frequent failure types, wind turbine blade damage can result from extreme weather (hail, lightning, high winds), debris impact, or ...

### 8 Common Reasons Generators Stop Working and ...

Generators can stop working for many reasons. Learn about the most common generator problems and solutions to keep your equipment ...

## Contact Us

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