



# Service Bulletin 0038

**Date:** June 2002  
**From:** Capstone Technical Support  
**Subject:** Inspect Dual Mode Controller Terminal Connections

## Affected

All contactor-based Dual Mode Controllers (DMC's) supplied by Capstone Turbine Corporation®.

## Safety Precautions

Only Capstone Authorized Service Providers (ASP's) should open the MicroTurbine and other equipment connected to the MicroTurbine. The systems can include multiple sources of power. Observe and adhere to the Safety Instructions contained within the MicroTurbine manuals.

## Summary

The screws that attach the wire terminals to the Contactor (M1) in the Dual Mode Controller may become loose during shipping or installation. Intermittent annunciation of utility/load faults (for example, 7010 fault) from the MicroTurbine would be a likely indication that this condition exists.

Loose connections can cause intermittent voltage and high current levels to conduct through the main power wires attached to the Contactor terminals. High temperature levels can result in the melting of wire insulation and could lead to further failures.

Power for the main Contactor is provided from wires connected to the utility input side of the Contactor. Loose connections can also cause intermittent voltage to the Contactor coil resulting in "Contactor buzzing" or failure to close.

Capstone requires that Dual Mode Controllers with Part Numbers 509921-XXX and 510594-XXX through 510600-XXX be inspected to ensure that the terminal screws and wire connections are tightly secured during next scheduled visit. Torque requirements on the Contactor terminals are as follows:

DMC Part Number	Contactor Terminal Torque Setting		DMC Part Number	Contactor Terminal Torque Setting	
	Nm	Lb-in		Nm	Lb-in
509921-XXX	1.5 – 3.5	13 –31	510597-XXX	42	375
510594-XXX	16.9	150	510598-XXX	42	375
510595-XXX	16.9	150	510599-XXX	31	275
510596-XXX	31	275	510600-XXX	31	275

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