



# Service Bulletin SB0067

Date: June 2004  
From: Capstone Technical Support  
Subject: Model C30 HEV Software Version 2.10 Release Notes

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## Affected

All Capstone Model C30 Hybrid Electric Vehicle MicroTurbine systems described as follows:

- Model C30 HEV systems with version 2.09 exhibiting 5011 Frame EEPROM Write warnings may be upgraded to version 2.10 during a scheduled visit.
- Model C30 HEV systems with version 2.07 software (see SB0054) may be upgraded to version 2.10 during a scheduled visit – upgrading is recommended.
- Model C30 HEV systems with version 2.08 software deviation **MUST** be upgraded to version 2.10 software.

## Summary

Version 2.10 software replaces versions 2.07, 2.08 and 2.09, and incorporates all related changes from these versions. Version 2.10 is released to support all Model C30 HEV MicroTurbine systems. Major improvements for version 2.10 are as follows:

### Version 2.10 Updates

1. Updates to SPI Communication to ensure memory (RAM and EEPROM) are locked so that multiple tasks can read/write to memory without overwriting each other.

### Version 2.09 Updates

1. Modified FLTDET to support the new CRMS output format.
2. Added LVDT-position feedback to SPVDAT.
3. Negated generator power feedback to change its sign for proper display of generator power.
4. Added a new SPV25 valve position scheme for 2-point calibrated valves.

<b>NOTE</b>	This feature was incorporated from version 2.08 software deviation.
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5. Added an Intra device list field to ALLDAT's control data for future CRMS compatibility.

## Responsibility

It is the responsibility of Capstone to provide description of software changes contained within this document to Authorized Service Providers.

It is the responsibility of Capstone to make available the version 2.10 software to Authorized Service Providers for the resolution of issues related to fielded MicroTurbine systems.

It is the responsibility of the Authorized Service Provider to obtain the version 2.10 software zip files from the Members Only section of the Capstone website.

It is the responsibility of the Authorized Service Provider to diagnose related field issues, and upload this software to resolve the problem. After completion of software uploading, it is the responsibility of the Authorized Service Provider to provide Capstone with a Field Service Report.

Capstone shall reimburse the Authorized Service Provider for up to half-an-hour for performing the software uploads on systems under warranty and on MicroTurbines with version 2.08 software deviation.

## Capstone Technical Support

If you have additional questions, please contact:

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