



Technical Support Bulletin 2009-04	Diodes on MMP Rev D Board	October 23, 2009
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Alert Level: **ADVISORY**

Instrument: MMP (Rev D Boards Only)

Software Versions: N/A

Subject: Zener Diodes

Summary: New vendor the Zener Diodes on the MMP Rev D electronics board.

Technical Details: The MMP Rev D electronics board uses three 15V 5W Zener Diodes – one diode powers sensor communication, the other motor movement and the third, communication with the TT8. The diodes originally used in Rev D electronics were manufactured by MicroSemi Corporation.

The MicroSemi Corporation Zener Diodes have experienced some failures causing them to short out on the Rev D board and draw excessive current.

Potential Negative Effects: Zener Diode failure during a deployment can stop the Profiler motor, prevent communications with the sensors, or end communication with the TT8.

Action: McLane Research Laboratories, Inc. now uses 15V 5W Zener Diodes manufactured by the Micro Commercial Corporation on new Rev D boards. Existing MMP and ITP profiler Rev D electronics can be upgraded in conjunction with other upgrades or repairs.

Note - This bulletin does not apply to Rev C electronics.