

MCE TECHNICAL BULLETIN

➤ *Corrective Action* ◀

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Reference # 152
Route to **Modernization and Service Managers**
From MCE Technical Support Department (916-463-9200 then press “3”)
Date March 9th 2014
Pages 2

Subject **HC-DVR Field Modification**

Equipment HMC-2000 (Motion 2000)

Description In a limited number of Motion 2000 hydraulic controller installations, it has been brought to MCE’s attention that “DVR Offline” fault occurs intermittently. This fault occurs when the DVR processor goes offline and stops communicating with the HC-MPU board.

Action If the DVR board is communicating with MPU board properly and intermittently “DVR Offline” fault is getting logged, it’s most likely happening due to the noise induced by the component Y2 MOV on the HC-DVR board. If the voltage level to the DVR board is good and it’s communicating via CAN bus communication to MPU board, locate Y2 MOV in the upper left quadrant of the HC-DVR board. With the controller power turned off, clip both legs of the Y2 MOV from the board and restore power. Problem is most likely to happen while the car is running in up direction. For further instructions, please go to page 2 for HC-DVR Board Field Modification. Contact MCE support team if the problem persists.

MCE Help As always, should you require any additional technical assistance on this or if you wish to add your email for future technical bulletin advisories:

- **Email: techsupport@nidec-mce.com**
- **Refer to the reference number above**

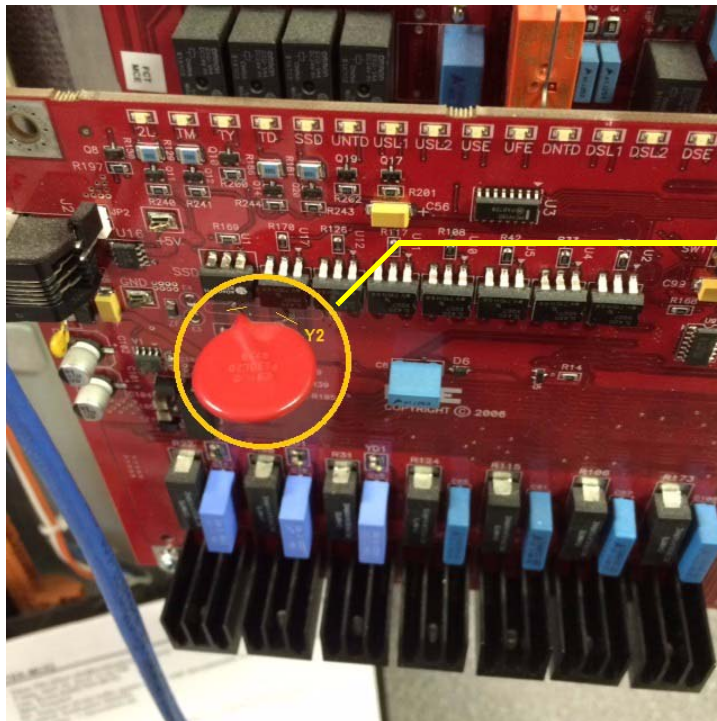
M2000, HC-DVR Board Field Modification

- Motion 2000 controllers with DVR Offline errors

MCE has recently been informed of some Motion 2000 controllers faulting out on DVR Offline errors. This problem can be corrected by removing the large red, Y2 MOV from the HC-DVR board:

1. Shut down power to the controller. Wait five minutes.
2. Locate large red MOV Y2 on the HC-DVR board.
3. Cut Y2 leads close to the circuit board. Remove and discard Y2.
4. Restore power to the controller.

Figure 1. MOV Y2 on HC-DVR Board



Using a small pair of side cutters, cut the two leads from Y2 off just where they enter the circuit board.

