

SERVICE BULLETIN

Part No.: MCP01-XXX

Description: Master Caution Panel

Service Manual: N/A

ECO No.: ECO1051

Service Bulletin No.: MCP01-603-0003

Subject: MCP01 State Recorder Firmware Update (MOD 3)

Prepared By:

Adam
Pembleton
Designer
Oct 6, 2016

Checked By:

Tony
Pearson
Designer
Oct 7, 2016

Approved By:

Todd
Blackstock
R&D Manager
Oct 11/16**1. Planning Information****1.1 Applicability**

This modification is applicable to all MCP01-XXX units that contain a State Recorder and do not have MOD 3 incorporated.

1.2 Reason

Two complications have been discovered with the State Recorder:

- There is the potential that units may lose their programmed serial number while connected to a computer.

Intermittent communications between the computer and the State Recorder cause the serial number stored in the State Recorder to be reprogrammed.

- There is the potential that units may not connect with MCP-DAS.

Intermittent State Recorder EEPROM data corruption causes the MCP-DAS software to not connect with the State Recorder. Corruption may occur when power is removed while data is being recorded.

1.3 Description

This modification consists of updating the firmware on the EEPROM of the State Recorder. This update provides reduced susceptibility to communication errors between the computer and the State Recorder, as well as increased resilience to corruption of data within the EEPROM.

Updated MCP-DAS software (Version: 1.10+) is required for interfacing with the new firmware.

1.4 Compliance

Customer Option. AEM recommends this change be accomplished on all effected units.

1.5 Approval

No change to existing approval.

1.6 Costing

This modification is subject to warranty consideration.

1.6.1 Parts and Labour

One (1) hour estimated. Includes required test time.

1.7 Special Equipment Required

None.

1.8 Weight and Balance

Not affected.

1.9 Electrical Load Data

Not affected.

1.10 References

N/A

1.11 Other Publications Affected

N/A

2. Procedure Instructions

Factory-only update.

The modification status tag will be updated with a permanent marking to indicate MOD 3 has been incorporated.

2.1 Modification Procedure

For the following steps, reference the applicable Faceplate Drawing, Assembly Drawing, Derivative Change Summary, Parts List, or Schematic.

- 2.1.1 Remove eight (8) Flathead Screws (Item No. 25) securing the Chassis (Item No. 14) to the Power Supply and Trigger Subassembly (Item No. 21) circular connectors.
- 2.1.2 Remove two (2) Panhead Screws (Item No. 3) securing the Locking Hardware (Item No. 1).
- 2.1.3 Remove eight (8) Flathead Screws (Item No. 7) securing the Chassis (Item No. 14) to the Mounting Plate (Item No. 15) and separate the Chassis from the Mounting Plate.
- 2.1.4 Remove three (3) Panhead Screws (Item No. 4) securing the Front Panel (Item No. 16) and the Front Panel Gasket (Item No. 13) to the Legend Housing (Item No. 18). Separate the Front Panel and Front Panel Gasket from the Legend Housing.



- 2.1.5 Remove two (2) Sealing Boot Nuts (Item No. 6) from the Power Supply and Trigger Subassembly (Item No. 21) switches.
- 2.1.6 Reprogram the State Recorder as per the Programmable Hardware Installation Procedure.
- 2.1.7 Reference the applicable Faceplate Drawing or Derivative Change Summary for reassembly.

2.2 Acceptance Test Procedure

- 2.2.1 Reference the latest Acceptance Test Procedure for complete test procedure.

2.3 Modification Status Marking

Locate the modification status tag on the product and apply a permanent marking on the 3 to indicate MOD 3 has been incorporated.

3. Material Information

MOD 3 consists of firmware updates only, therefore requires no material parts.

4. Reference Documents

The following documents are required to complete the modification.

DOCUMENT	REV.	DESCRIPTION	TYPE
MCP01-000-913-0	1.21	Bell 212 Master Caution Panel Assembly	Assembly Drawing
MCP01-SR-910-0	1.10	State Recorder Subassembly	Assembly Drawing
MCP01-SR-643-0	1.00	State Recorder Subassembly	Programmable Hardware Installation Procedure
MCP01-SR-702-0	1.10	MCP01 State Recorder	Software

End of Service Bulletin