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Bulletin 1336 MOD–E2 Programmable Monitor Display

Firmware Update Kit SP–148341

Installation Data

General

The Bulletin 1336 MOD–E2 Programmable Monitor Display (PMD) has been updated to provide several firmware enhancements. This V2.01 update to the handheld terminal allows the terminal to be compatible with the V2.01 firmware in the Bulletin 1336 Drive. The purpose of this publication is to describe the steps required to properly replace the old firmware Version 1.01 with a Version 2.01 chip. A box, label and anti–static bag are included for returning the old chip.

Components included in the kit:

- 1 Firmware chip, marked V2.01
- Instruction sheet
- ESD Wrist Strap
- Blank revision label for board
- Anti–static return box with label
- Anti–static return bag

ESD Precautions

CAUTION: This Drive contains ESD (Electrostatic Discharge) sensitive parts and assemblies. Electrostatic control precautions are required when installing the new firmware chip. Component damage may result if ESD control procedures are not followed. If you are not familiar with static control procedures, reference A–B publication 8000–4.5.2, *Guarding Against Electrostatic Damage* or any other applicable ESD protection handbook.

Replacement Procedure

WARNING: Open and lock–out drive main supply disconnect and all other power source disconnects before proceeding, to avoid hazard of electrical shock or injury from unintended actuation of control equipment.

1. The control board for the Programmable Monitor Display is accessible on the back side of the monitor display by opening the enclosure door. It is not necessary to remove the control board to change this chip.

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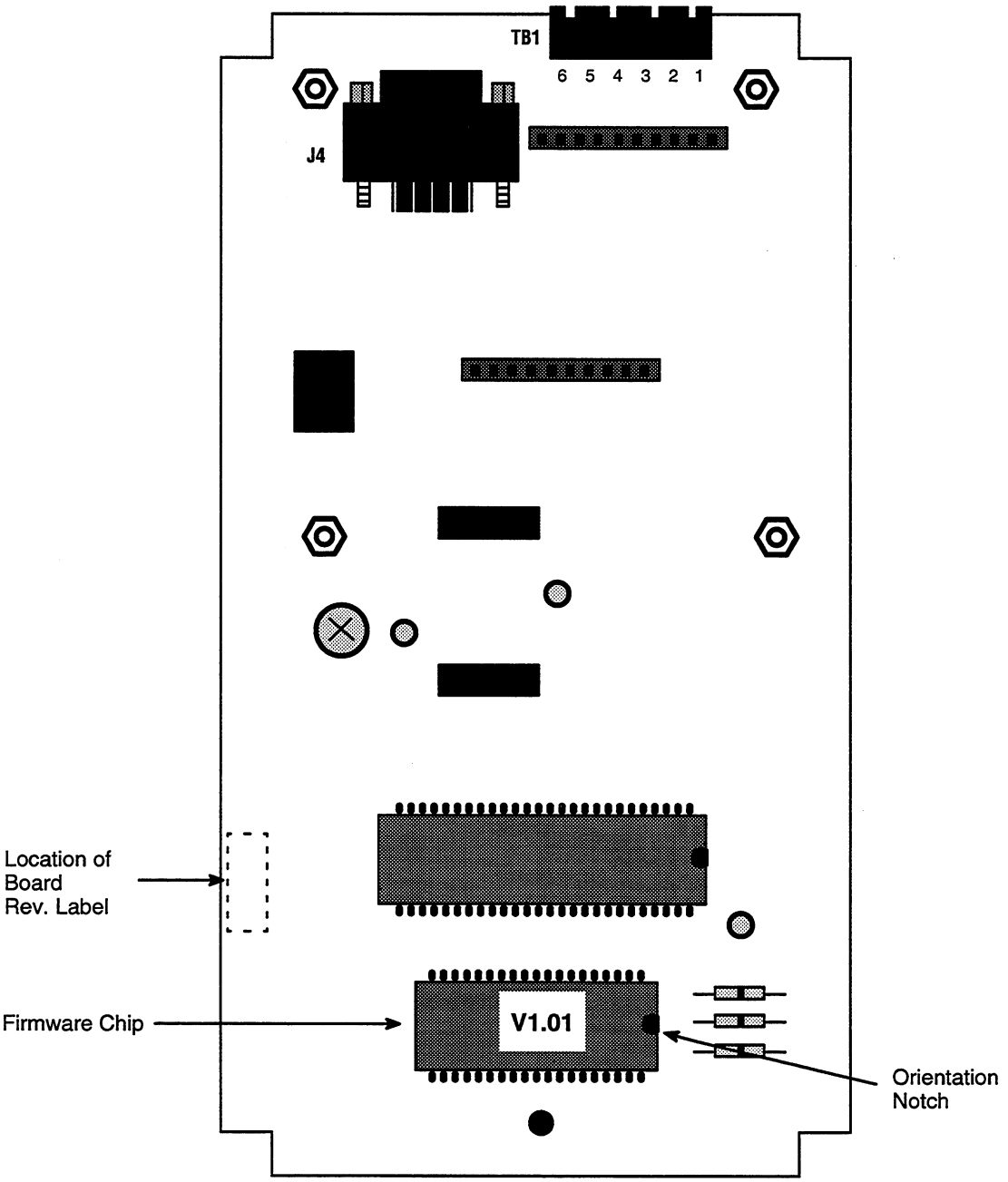
2. Put on the wrist strap and attach the end of the wire to a bare grounded surface.

3. Remove the MOD–S1, 9 pin D–Shell connection to the drive at the J4 connector on the board (Figure 1). If more than one PMD display is used on the drive, it is not necessary to remove the daisy chain connections at TB1, disconnect only the cable to the Master Display.

Figure 1. Bulletin 1336 PMD Firmware Chip Location



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NOTE: It is highly recommended that a chip puller/insertion tool be used to remove the old firmware chip and insert the new chip. If a chip puller is not available, a less desirable alternative is to use a small screwdriver for removal by gently prying up either end of the chip. If the screwdriver method is employed, extreme caution must be taken so that surrounding components are not damaged.

4. Refer to Figure 1 and remove the firmware chip using the chip puller. Note the chip orientation notch when inserting the new Version 2.01 chip on the board. Use extreme care not to bend the chip leads when inserting the new chip.
5. Paste the white revision label in the indicated position on the board and fill in the date.

IMPORTANT: Chips with old version of firmware should not be retained as "spare parts". Loss of programming functionality if used with later versions of drive firmware can potentially extend down time and complicate troubleshooting.

6. Package the old chip in the anti–static box supplied, and insert the box in the anti–static bag for return.
7. Return the V1.01 chip to:
   Allen–Bradley Co. Inc.
   1000 East Ball Rd.
   Anaheim, CA 92805

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