

PM2 LCD Replacement Instructions

NEED: Phillips head screwdriver
Isopropyl alcohol



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There are two types of LCDs used in the PM2. The difference is the number of contact pads along the edges of the LCD. PN1416 has 43 contacts per side while PN1405 has 64 contacts per side. To determine which replacement type of LCD to use, check the number of black contact pads on the back (solder) side of the printed circuit board. This will require removing the printed circuit board from the PM2.



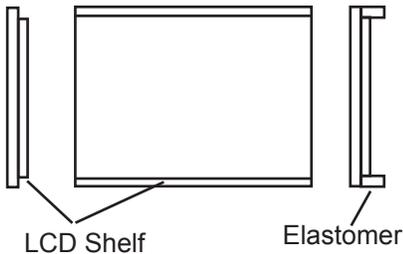
1) Remove the 6 Phillips case screws on the back of the monitor.

2) Open the back and remove the 8 Phillips screws holding the printed circuit board.

3) Remove the 2 Elastomer strips (blue) and the LCD.

4) Insert replacement LCD into case front

Remove the protective plastic from the front of LCD. Clean the LCD shelf with Isopropyl Alcohol and allow to dry prior to assembly. Lay the LCD into the case so that the front of the LCD is oriented as shown at upper left.



5) Place Elastomer strips on LCD shelves (see diagram at left)

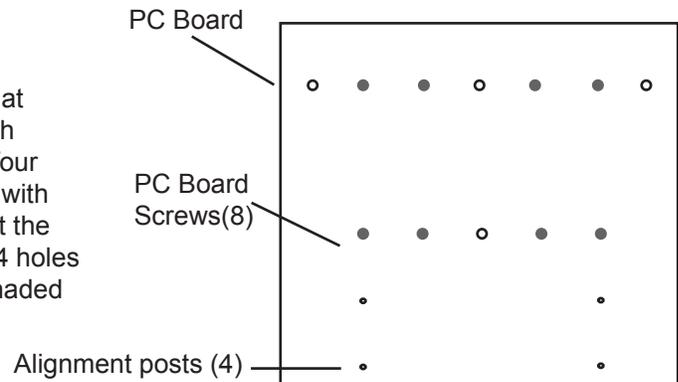
Clean Elastomer strips with Isopropyl Alcohol and let dry completely. Lay one Elastomer strip on either LCD shelf so that the conductive carbon contacts the LCD pads. (Do not touch the conductive portion of the Elastomer strip with bare hands). The Elastomer strips are longer than the LCD to make alignment less critical.

6) Place keypad into case front

The keypad layout is asymmetric so it can only be inserted into the case in one orientation. The alignment holes in keypad should sit over the 4 posts in the case front. Avoid touching the black conductive carbon pads on the back of the keypad.

7) Install assembled PC board

The PC board is placed into the case front so that the carbon ink side of the board is in contact with the LCD Elastomer strips and the keypad. The four alignment posts in the case front should line up with four corresponding holes in the PC board. Insert the 8 PC Board screws into the 4 holes above and 4 holes below the LCD. These holes are indicated as shaded in the figure at right.



8) Install case back

The battery connector clips should be contained within the battery compartment. Screw the back on with the six case screws.