REASON FOR MODIFICATION:
Installation of parts not in stock at the time of build stabilize clock signals, ability to ground test probes

DESCRIPTION OF MODIFICATION:
Figure 1 – overall view, high lighted components top & bottom.

1. TOP Side Install & wire adds:
   1.1 D1 item 91, (Fig 2)
   1.2 TP13 & TP14: Item 89 (Fig 2)
   1.3 U20 & U37 modifications (rework done by contractor) (Fig 3, 3a, 3b)

2. Bottom Side Install & wire adds:
   2.1 Add Low pass filter (U28-32 to 5.6nF to GND) (U28-32 to 10nF cap via a 1% 3.65K resistor to ground) component adds are on the bottom of the board see figure 4. C255, C254, R119 should be glued to the board. Abut and solder one terminal of R119 & C254 together at location shown, add wire to the opposite terminal of R119 to ground via (shown in Fig 4). Add wire from opposite terminal of C254 to TP7. C255 – wire add 1 terminal to TP7 and the other terminal to ground via (shown in Fig 4).
   2.2 Install L8, Item #32 (Fig 5)
   2.3 RN1, RN2, RN3, Item 74 (Fig 5)
   2.4 J13, Item 88 & TP12 Item 89 (Fig 5)
   2.5 Install L10, Item #33 (Fig 6)
   2.6 C239, Item 23 (Fig 6)
   2.7 J10 (2 parts), Item 76 & 77 (Fig 6)
   2.8 Ground test point TP11 Item 89 (Fig 6)
   2.9 remove R66, tie U27-N22 to ground (wire add see Fig 7)
NOTES:
1. Before installing any components, check all boards using an ohmmeter for shorts between all power and ground nodes.
2. All polarized caps are marked with a plus (+) sign closest to the positive node.
3. Pin identification: 02 cathode marking is a heavy bar. 0422 and 0422 marking is a heavy line.
4. All holes and lands of uninstalled components shall be kept free of solder.
5. Do not cover serial number areas with vendor labels or markings. Use a blank area near board identification text for vendor label and marking placement.
6. PNP report origin.
7. If modifications are performed on this board, the cleaning process should be confined to the modified areas. Do not subject the board to any all-over cleaning processes.

VENDOR NOTE: NOTIFY VENDOR OF ANY DRAWING REQUIREMENTS OR IF BOARDS CANNOT BE MANUFACTURED TO MEET THE REQUIREMENTS DUE TO VENDORS PROCESS AND/OR TECHNIQUES OR BECAUSE PHOTO TOOLS AND/OR SPECIFICATIONS ARE INADEQUATE.
FIGURE 3B

REMOVE U37 CUT TRACE A LOCATION OF REDLINE OR REMOVE PAD TO THE RIGHT THAT THE TRACE IS CONNECTED TO.
INSTALL A NEW PART, PLEASE RETURN OLD PARTS WITH ORDER.