



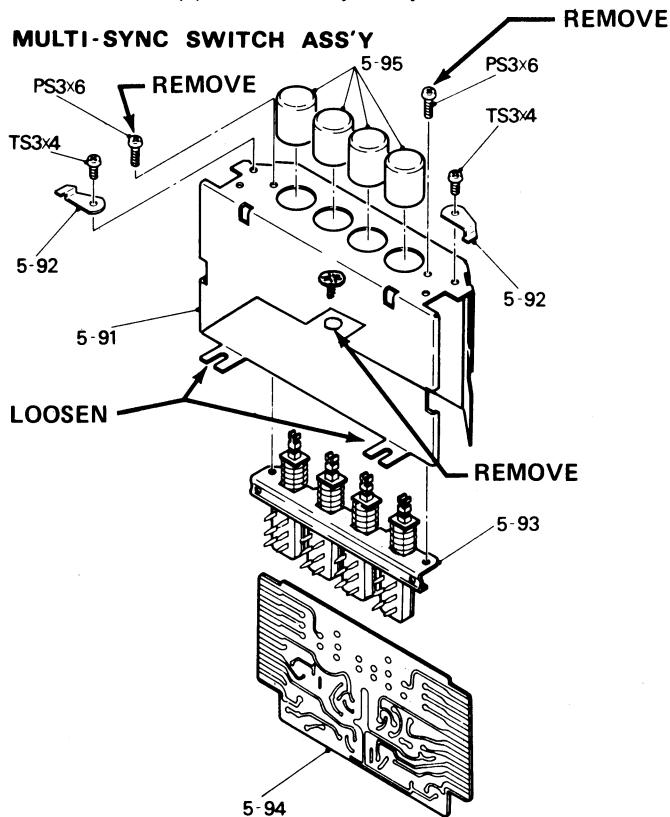
SERVICE BULLETIN

Service Hints and Information on the Model 1140

MULTI-SYNC

Problems —

Noisy channel(s) in Sync Mode
 Channel(s) drop out in Play or Sync
 Channel(s) dead in Play or Sync



REPLACE THE MULTI-SYNC ASSEMBLY BY THE FOLLOWING DIRECTIONS

Remove the Multi-Sync Board (located directly above the head nest) by first removing the top panel of the Model 1140. Then disconnect connectors to the Sync Board. Then **loosen** two mounting screws and **remove** one mounting screw (located as shown). Remove mu metal shield insert from the bottom of the Sync Assembly, then remove two PS 3x6 mounting screws. Assembly will now pull free of housing from bottom.

Replacement of Playback PCB342 with PCB418 (new type) and Adjustment

1. Remove bottom cover.
2. Unplug wire to top board (see below).

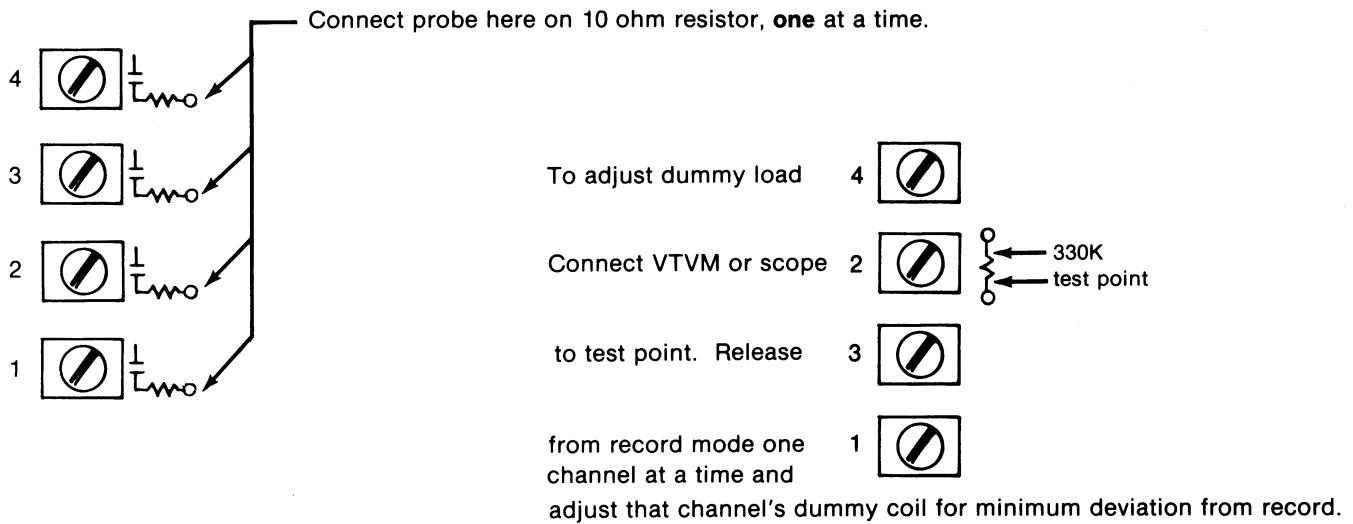
3. Unplug connectors, making sure that they **do not** turn over after removing four mounting screws.
4. Plug into new board and remount.
5. Solder wire to second open pin on connector (if wire is already connected, or connects to the old board, disregard).
6. Adjust playback level and EQ, following adjustment procedure in manual.

**Model 1140
Replacement of Bias PCB (PCM313E)
and Adjustment**

1. Remove bottom cover.
2. Remove mu metal shield surrounding bias board.
3. Remove four mounting screws.
4. Unplug 18 pin and 10 pin connectors. (**Do not** turn over!)
5. Plug connectors into new board, making sure that connections are same (top of connectors are not reversed).
6. Install four mounting screws (do not tighten).
7. Reinstall mu metal shield **after** adjustment.

Adjustment

1. Load unit with tape, bias in fixed mode, unit in record, pause on, multi-sync off, all channels in record.
2. With VTVM or scope, adjust bias trap coils for minimum reading (see below).



3. Check playback bias traps located in upper deck.