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**Cobra 39 Plus Technical Bulletin 1290**

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# TECHNICAL BULLETIN

**Number** 1290

November 23, 1987

TO : COBRA CB WARRANTY STATION

MODELS AFFECTED : 39 Plus

SYMPTOMS : Progressively poor sensitivity or set inoperative (dead) with CH 9 LED lit and no up/down channeling capability.

CAUSE : 10.24MHz (X-1) crystal dead or activity below specification.

ACTION : Replace X-1 (see fig. 1), 10.24MHz crystal with Dynascan P/N 132-036-9-001.

OR Replace X-1, 10.24MHz crystal with Dynascan P/N 135-077-9-001 (Yel Vinyl) and change C55 & C56.  
C55 Cap. Mica 15pF/50V P/N 023-097-9-001  
C56 Cap. Mica 20pF/50V P/N 023-097-9-002

DETAILS OF CHANGE: 1. Separate top and bottom covers by removing (3) three screws. Detach mike and speaker plugs.

2. Separate main P.C.B. from bottom cover and locate the 10.24MHz crystal. Unsolder the crystal leads.

3. Replace crystal with 132-036-9-001, if available.

If not available, or if this crystal does not improve sensitivity, replace with 135-077-9-001 as follows:

A. Locate C55 and C56 on P.C.B. and remove (see fig. 1).

B. Replace C55 with Mica Capacitor, 15pF/50V (P/N 023-097-9-001).

C. Replace C56 with Mica Capacitor, 20pF/50V (P/N 023-097-9-002)

D. Install new crystal (P/N 135-077-9-001).

4. Before soldering crystal leads, bend crystal so that it can be cemented to IC-1 (marked IC 101 on PCB layout) top, leaving adequate clearance when replacing top cover.
5. Solder crystal leads.
6. Use rubber cement or equivalent contact agent so crystal can not vibrate.
7. Attach a scope probe connected to a counter to Pin 9 of IC1 (marked IC 101 on PCB layout) and adjust CT1 for an indication of 10.24MHz +100Hz.
9. Check synthesizer alignment at TP1 per standard alignment procedure - CH40 (5.0Vdc) and CH1 (1.5Vdc).
10. Reassemble 39 Plus in reverse order of dis-assembly and check overall operation.

PRODUCTION

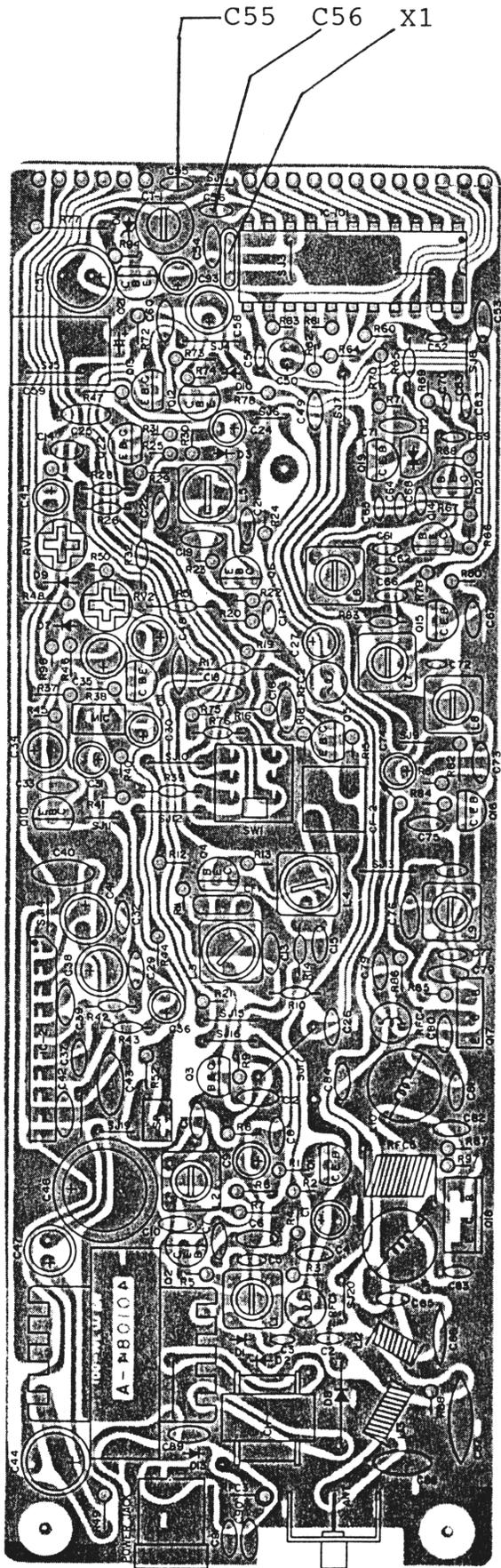
CHANGE POINT

: Units manufactured before 9/87. S/N 70900001 and up are not affected.

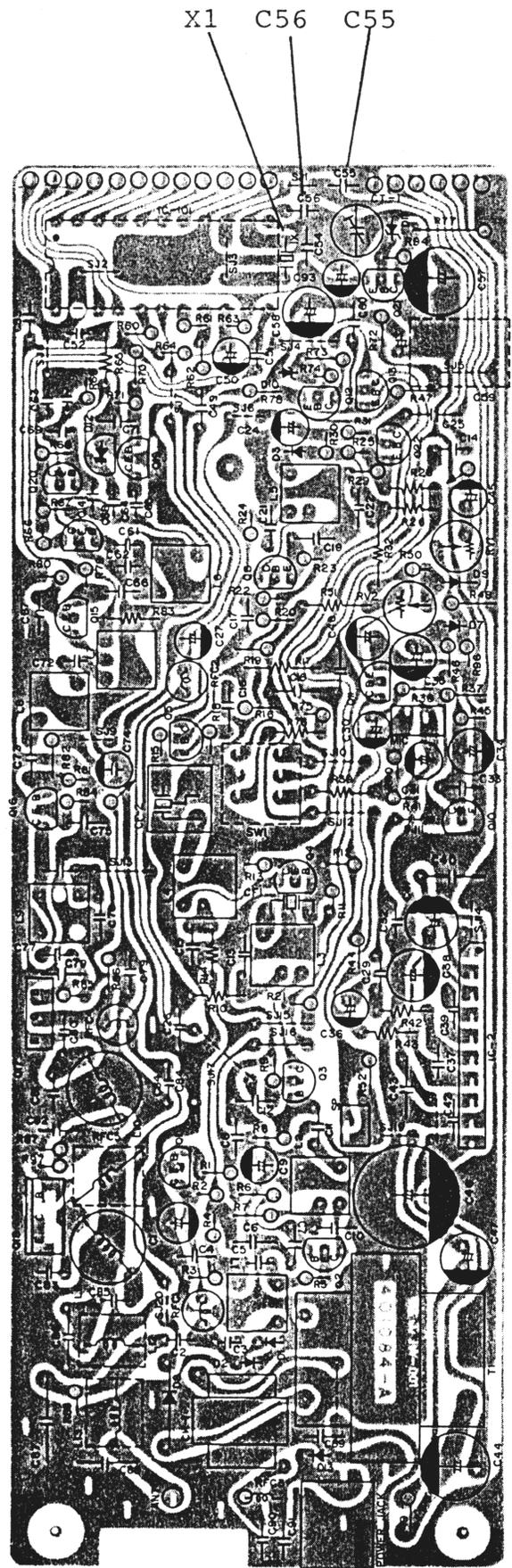
FIELD BULLETIN

REQUIRED

: Yes



TOP VIEW



BOTTOM VIEW

FIG. 1