

FIELD ENGINEERING BULLETIN

TITLE: OCCASIONAL UNTHREADING OF SERVO SYSTEM
FROM FAST TO PLAY MODE

I. APPLICABILITY

ATR-100 Capstan Servo PWA's with Q20, 21, and 22.
P/N 4050776-xx and the early version 4050860-xx.

II. PURPOSE

This modification will eliminate the problem of the servo's unthreading when going from fast mode to play.

III. DISCUSSION

The unthreading of the servo's from the fast mode to play is most prevalent on one half inch machines using 14-inch reels, although other configurations may also experience this problem. This modification is recommended for all configurations.

IV. PARTS LIST AND TOOLS REQUIRED

As required, small gauge insulated wire or bus wire with tubing.

Soldering iron.

Common technicians hand tools.

V. PROCEDURE**A) PWB 4500255-XX (Fig. I)**

Remove the PWA from the shield. On the circuit side of the board, along side Pin 28, is the P/N 4500255-XX. Just below this is the issue letter of the board. Issue letters H and J only should be modified.

Locate the short trace connecting R94 to A14-3. (See fig. I). Cut trace per dwg. and install short insulated jumper from R94 to A13-6. Re-install PWA onto shield and check for proper operation of the capstan servo. No re-adjustment of the servo system is necessary.

B) PWB 4500298-XX (Fig. II)

Remove the PWA from the shield. On the circuit side of the board along side Pin 28, is the P/N 4500298-XX. Just below this is the issue letter of the board. Issue letters A thru D need to be modified. Issue letters E and later have had the circuitry changed, and do not require this modification.

AMPEX**PROFESSIONAL
AUDIO DIVISION****FIELD ENGINEERING BULLETIN**

REF. NO. 70198

MODEL ATR-100

PAGE 2 OF 4

SUPERSEDES

DATE OF ISSUE 2/78

TITLE: OCCASIONAL UNTHREADING OF SERVO SYSTEM FROM
FAST TO PLAY MODE

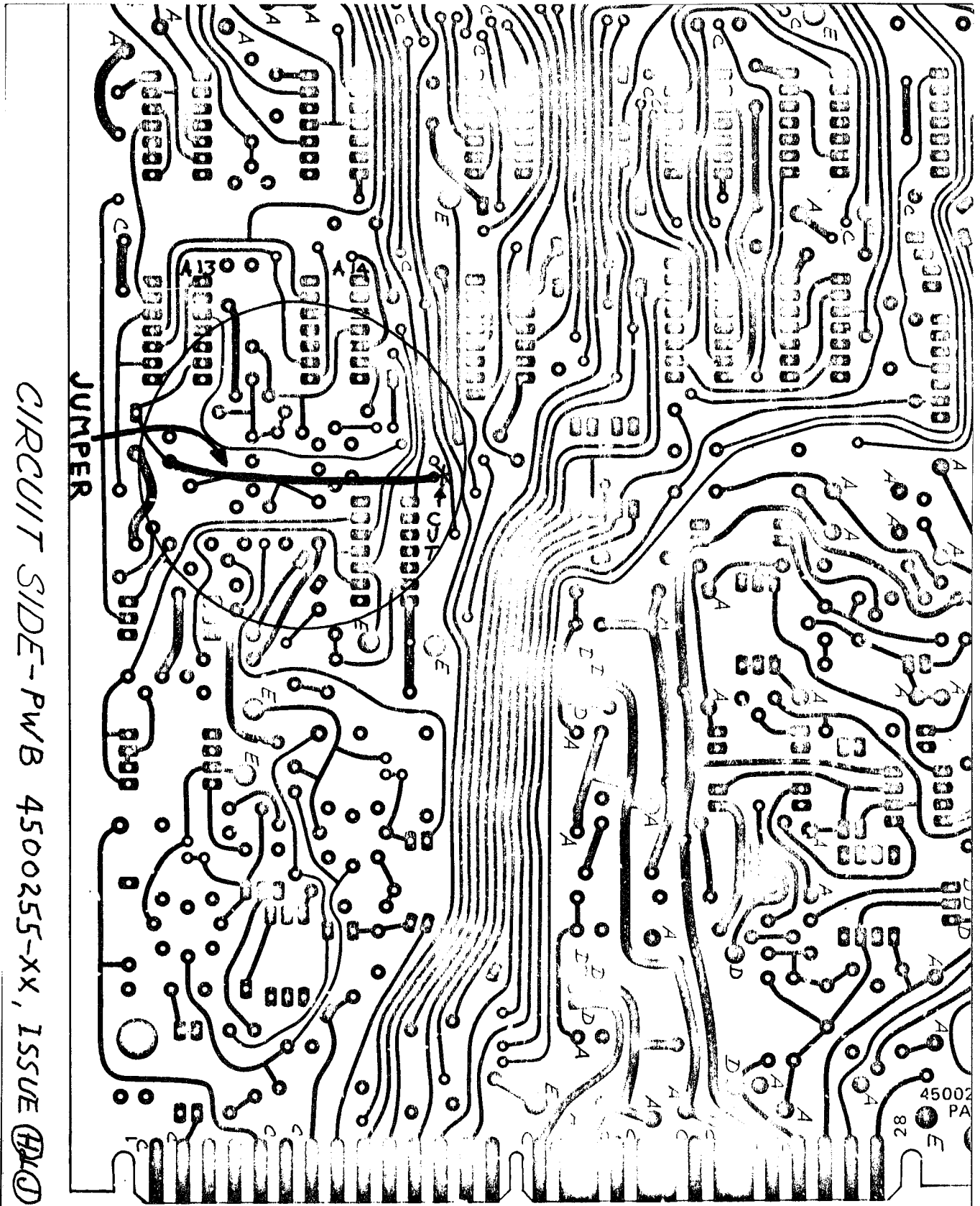
V. B) Cont'd

Locate the trace connecting R94 to A14-3 (see fig. II)
Cut trace in two places per drawing and install a short
insulated jumper bridging the pad that R94 is soldered
to. With a longer insulated jumper connect from the R94
pad to A13-6 per drawing. Re-install PWA onto shield
and check for proper operation of the capstan servo.
No re-adjustment of the servo system is necessary.

This completes the modification.

FIELD ENGINEERING BULLETIN

TITLE: OCCASIONAL UNTHREADING OF SERVO
SYSTEM FROM FAST TO STOP MODE



CIRCUIT SIDE - PWB 4500255-XX, ISSUE ④

FIG I

FIELD ENGINEERING BULLETIN

TITLE: OCCASIONAL UNTHREADING OF SERVO SYSTEM
FROM FAST TO PLAY MODE

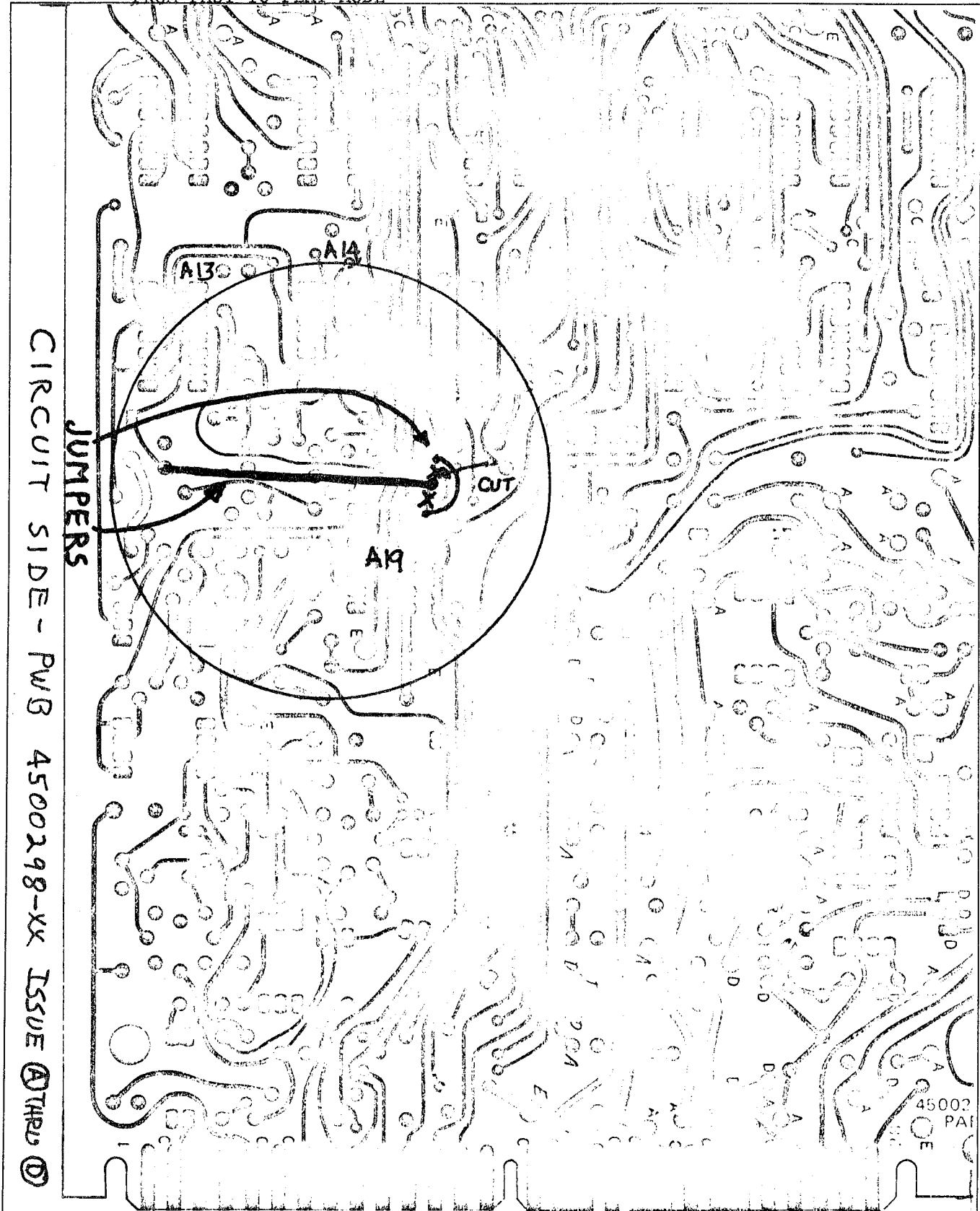


FIG II