

FIELD ENGINEERING BULLETIN

TITLE: REDUCTION OF SERVO TONE

I. APPLICABILITY:

All AG-440B's with Servo Kit and MM-1100's.

II. PURPOSE:

This change will reduce the servo tone from the Audio Reproduce Amplifier in the MM-1100 and the tone arising in the armature of the AG-440 capstan motor when operating at 3 3/4 ips.

III. DISCUSSION:

It has been found that in the MM-1100 operated at 15 or 30 ips only the change in R-11 is required. This will reduce the tone that is heard in the play mode when all the reproduce amplifier outputs are summed. The balance of the components need not be changed.

However, in the AG-440, when operating at 3 3/4 ips, the inadequately filtered servo carrier frequency signal causes the capstan motor armature to whine. The complete modification shown below is required to reduce the whine originating from this source.

IV. PARTS REQUIRED:

Description	Ref. No.	Part No.	Qty. Required
RES. 12K OHM	R-20, R-23	041-482	2
RES. 36K OHM	R-24, R-22	057-133	2
RES. 47K OHM	R-18	041-411	1
RES. 10K OHM	R-11	041-408	1
CAP. .082 MFD	C-11	035-596	1

V. PROCEDURE:

1. Replace R-11, 18, 20, 22, 24, R-23 and C-11 with new value parts as listed above. See Figure 1.
2. Make corrections on Schematic Drawing No. 4840356 and LM No. 405062.

RF/1j

