

PREFACE

This machine is a three-track audio tape recorder for recording and reproducing stereophonic signals. The overall performance and operation are similar to the AMPEX Model 350, and this instruction book is basically that for the Model 350.

The equipment differs from the Model 350 in the following particulars:

1. A special head assembly, Catalog No. 3531-16, has been incorporated. Instead of the standard record head, an assembly consisting of three heads of multi-channel design is furnished. In this assembly one head is stacked above the other with the gaps in line. Width of each track is .100 inch. Similar assemblies replace both the standard playback head and the standard erase head.
2. A Master Oscillator, Catalog No. 5661 is furnished. This oscillator furnishes high frequency bias and erase signal to all Electronic Assemblies.
3. Three Electronic Assemblies, Catalog No. 7636 containing bias buffer amplifiers, are furnished. The input of the buffer amplifier receives the high-frequency signal from the Master Oscillator through the Bias Interconnecting Cable, amplifies it, and provides bias current for the record head and erase current for the erase head. The Bias Interconnecting Cable is connected from J412P on the Electronic Assembly to J806P, J807P or J808P on the Master Oscillator.
4. The standard tape transport has been modified to use 1/2-inch magnetic tape.

NOTE: To erase or record on either channel, it is necessary to depress the RECORD button on the appropriate electronic assembly.

5.3 Master Oscillator

The Master Oscillator, Catalog No. 5661 is a conventional push-pull triode oscillator which provides a 100 KC signal to the Erase and Record Heads.

5.6.4

A: Erase Adjustment

1. Thread a new blank tape on the machine.
2. Turn the Meter and Output Switch (S405) to the ERASE position. Put the machine in the Record mode and read the erase current indication on the VU meter. Adjust ERASE CURRENT (R463) until the meter reads a maximum. Decrease the meter reading by one VU. (The reading will be within the range from -7 to -3 VU.) If maximum current does not read at least -6 VU, it should be brought to the proper level by means of ERASE ADJUST (C444). CAUTION: THE ERASE CURRENT ADJUSTMENT HAS A DIRECT EFFECT ON BIAS CURRENT AND SHOULD NOT BE CHANGED AFTER THE BIAS ADJUSTMENT HAS BEEN MADE AS DESCRIBED BELOW. THE BIAS ADJUSTMENT WILL NOT AFFECT THE ERASE CURRENT.

Figures 1A, 18 and 19 attached should be substituted for corresponding figures in the present manual.

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