

3960-4**S E R V I C E N O T E**

SUPERSEDES

None

MODEL: HP 3960A, B, E, and F
 Tape Recorders
 Serial Prefix 941 Only
 3660A, and 3661A,
 950 Series & Below:

FILE NO. 42-078

DATE: February 19, 1970

SUBJECT: IMPROVED FM RECORD PERFORMANCE

Change the value of AIR38 from 14.7K, 1/2, 1/8W to 31.6K, 1/2, 1/8W, Hewlett-Packard part number 0698-3160 for improved performance of FM Record Head Driver.

Intermittent triggering of the FM Record Head Drive circuit has occurred on a few FM Record amplifiers. When the value of AIR38 is increased AIQ9 base current is reduced, permitting normal triggering of the Head Drive circuit. Intermittent triggering of Q9 causes unwanted frequency modulations to be recorded on the tape which, when played back, appear to be signal instabilities or noise spikes. Intermittent triggering of AIQ9 can be observed at TP-3 of the FM Record amplifier (refer to Fig 1) using an HP 180 Oscilloscope, or equivalent. Select E-to-E Mode at 15 ips and with no input signal to the recorder. Observe a 27 kHz signal as described on Fig 1.

To replace R38, remove FM Record Amplifier from the recorder. (Be sure the speed selector is in the "Mid" speed position.) Replace R38 and reinstall Record Amplifier. Perform FM alignment as prescribed in the 3960 Preliminary Manual Supplement.

Parts Affected

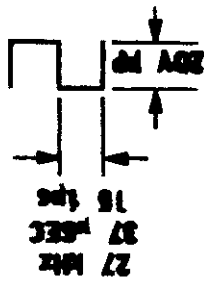
HP P/N 0698-3160

BW/caa/wo

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Printed in U.S.A.



TP3

TP2

