

SUPERSEDES:

8690A-1

8690A-2

## HP MODEL 8690A SWEEP OSCILLATOR

Serials Below 732-01261

## RECIPROCAL AMPLIFIER IMPROVEMENTS

The following changes will improve the time and temperature stability of the A3 Reciprocal Amplifier in HP Model 8690A Sweep Oscillators, serials below 732-01261 (A3 Boards numbered 08690-6013).

1. Change A3R17 to a 220 K ohm resistor, HP Part Number 0690-2241, Fixed Composition,  $\pm 10\%$ , 1 watt.
2. Change A3V5 to a Telefunken 12AX7, HP Part Number 1932-0065. Service Note 8690A-1, which recommended a different tube replacement, should be removed from your files.

After these changes perform the Ramp zero and Reciprocal zero Sweep Calibrations given in the manual. Also, make the necessary changes to the schematics and parts lists to show these new parts.

JD/mh/wo

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