INSTALLATION • OPERATION • MAINTENANCE

INSTRUCTIONS

TYPE TCF POWER LINE CARRIER FREQUENCY SHIFT TRANSMITTER EQUIPMENT - 10 WATT/ 10 WATT - TRANSFER TRIP

NOTE: This equipment is identical to the 1 watt/10 watt TCF transmitter equipment described in I.L. 41-945.1 except for the minor exceptions explained below. The "List of Attachments" together with this sheet comprise the complete instructions.

APPLICATION

The application of this frequency-shift transmitter equipment differs from that described in I.L. 41-945.1 only in that the output power level of the Guard frequency as well as the Trip frequency is 10 watts.

OPERATION

With exception of the fifth paragraph, operation is as described in I.L. 41-945.1. Since the power level is unchanged when the frequency is shifted, transistor Q55 and the associated circuitry (see Fig. 1) used to change the effective emitter resistance of transistor Q54 are not needed. Drawing 544D884 is the Internal Schematic of the transmitter with these parts omitted. The power level is controlled by R64 alone. For the location of components on the transmitter printed circuit board, refer to Drawing 763A252 instead of Fig. 3.

ADJUSTMENTS

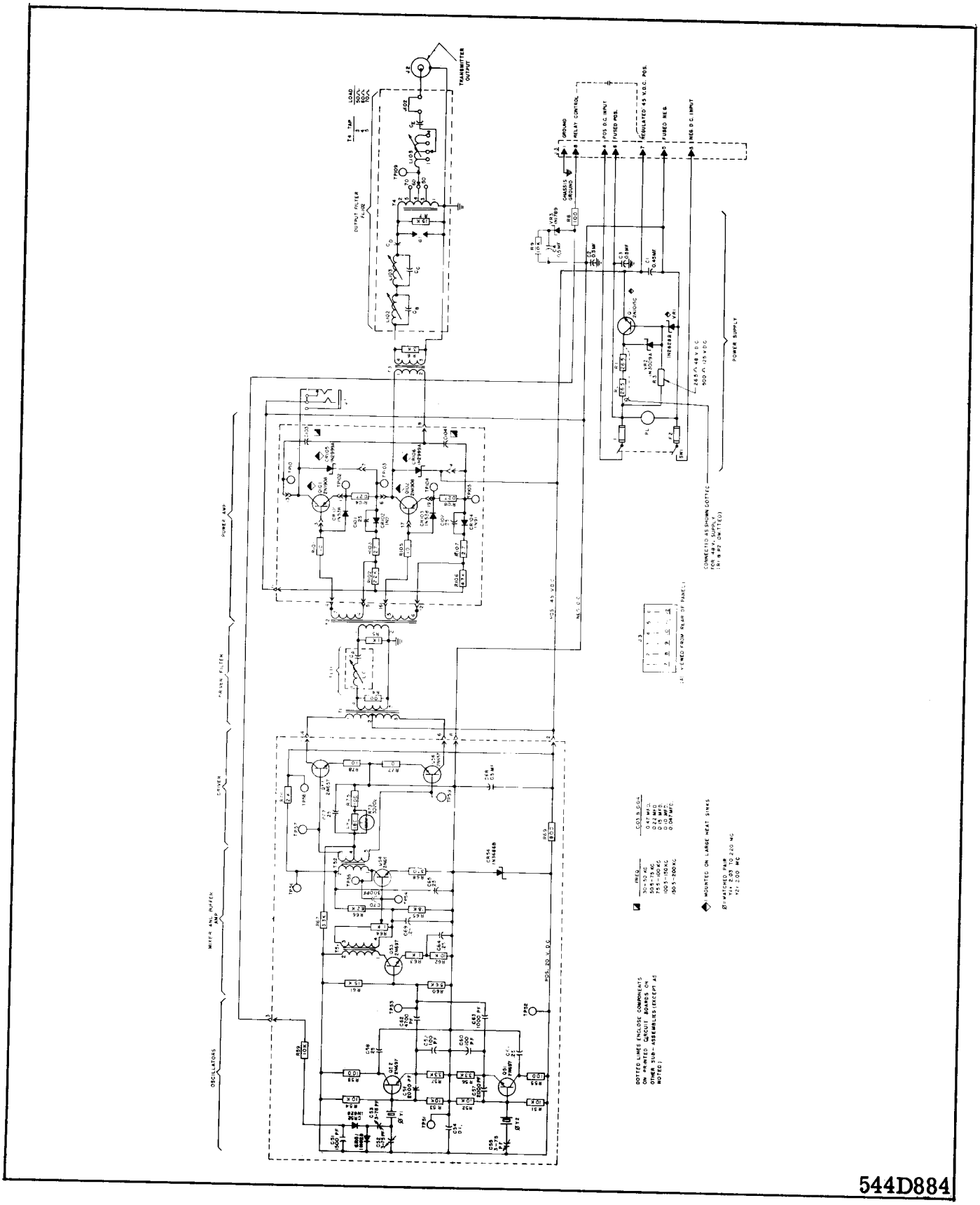
Instead of the procedure described in first through third paragraphs, R64 should be adjusted to obtain about 10 volts across the load resistor before making the preliminary check of the adjustment of series tuning coil L105, and then should be advanced to obtain the voltage corresponding to a ten-watt output with the tuning adjustment at its optimum point.

TRANSMITTER D-C AND RF MEASUREMENTS

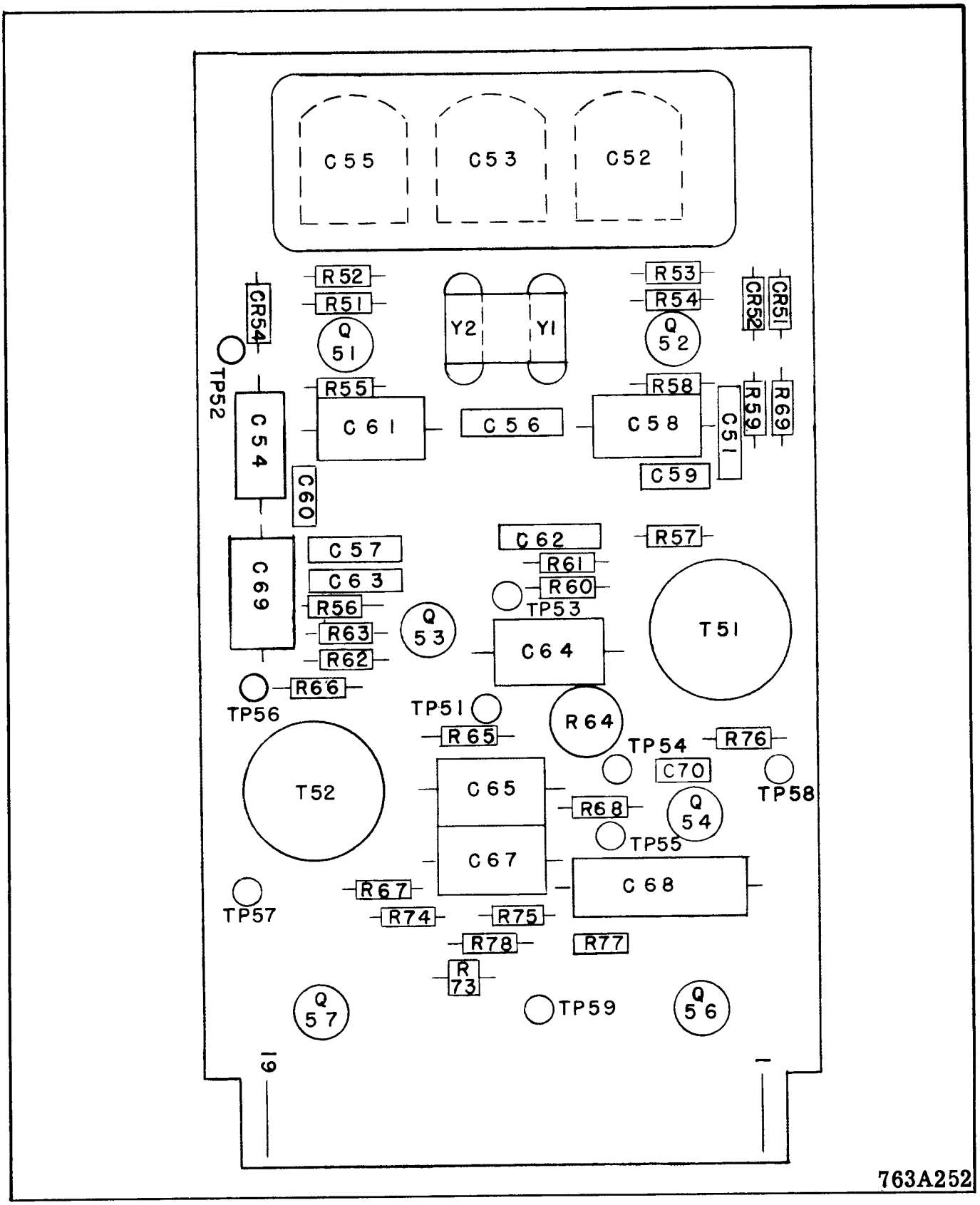
(Disregard the reference voltages given for the 1-watt output level.)

SUPERSEDES I. L. 41-945.11
EFFECTIVE 8-19-66

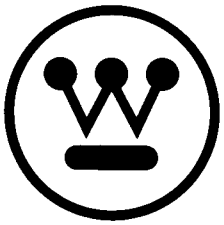
EFFECTIVE NOVEMBER 1966



Substitute for Fig. 1 of I. L. 41-945.1



Substitute for Fig. 3 of I. L. 41-945.1



WESTINGHOUSE ELECTRIC CORPORATION

RELAY-INSTRUMENT DIVISION

NEWARK, N. J.

Printed in U.S.A.