

DATE 8-2-62

SH. 1 OF 3

COMPILED BY  
KH/hh

TMC SPECIFICATION NO. S - 10079

TITLE:

JOB

APPROVED *[Signature]*

TEST SPECIFICATION

FOR

TF-10009

(HYBRID UNIT)

T.M.C. (CANADA) LIMITED  
OTTAWA . ONTARIO

DATE 8-2-62

SH. 2 OF 3

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TMC SPECIFICATION NO. S - 10079

TITLE: TEST SPECIFICATION TF-10009 (HYBRID)

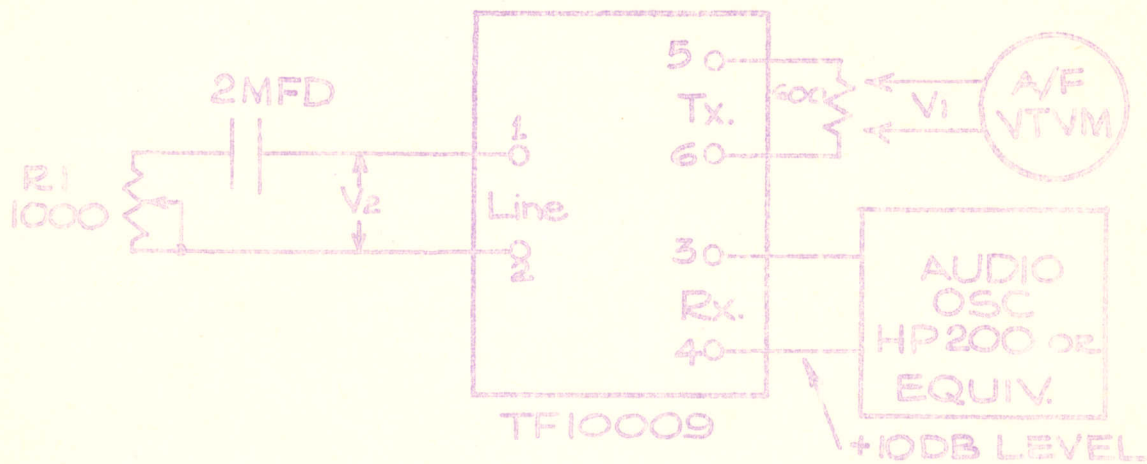
JOB

APPROVED

*JG.*

1. The transmit hybrid loss is a basic 4 db, with 3 db through the variable attenuator and volume limiter network totaling 7 db. The attenuator is adjustable through another 11 db to a total possible loss of 18 db plus-minus .5 db.  
  
The receive hybrid loss is a basic 4 db, with 2 db, through the variable attenuator totaling 6 db. The attenuator is adjustable through another 11 db to a total possible loss of 17 db plus-minus .5 db.
2. The trans-hybrid loss (balance) with line terminated by 600 ohms in series with 2 mfd. is 34 db minimum.
3. The transmit volume limiter produces compression of 0.4 db maximum at 0 dbm input level, and 4 db minimum compression at plus 15 dbm.
4. The built-in compromise balance network is designed to balance a line termination equal to 600 ohms and 2 mfd. The specific values of the compromise network are 600 ohms and .990 mfd.
5. Optional condenser strapping is accessible when the top cover is removed.
6. Terminals 7 and 8 are accessible when the top cover is removed.
7. There is no provision now for unstrapping the compromise balance network but this provision can easily be provided if a quantity of the four wire terminating sets is required.

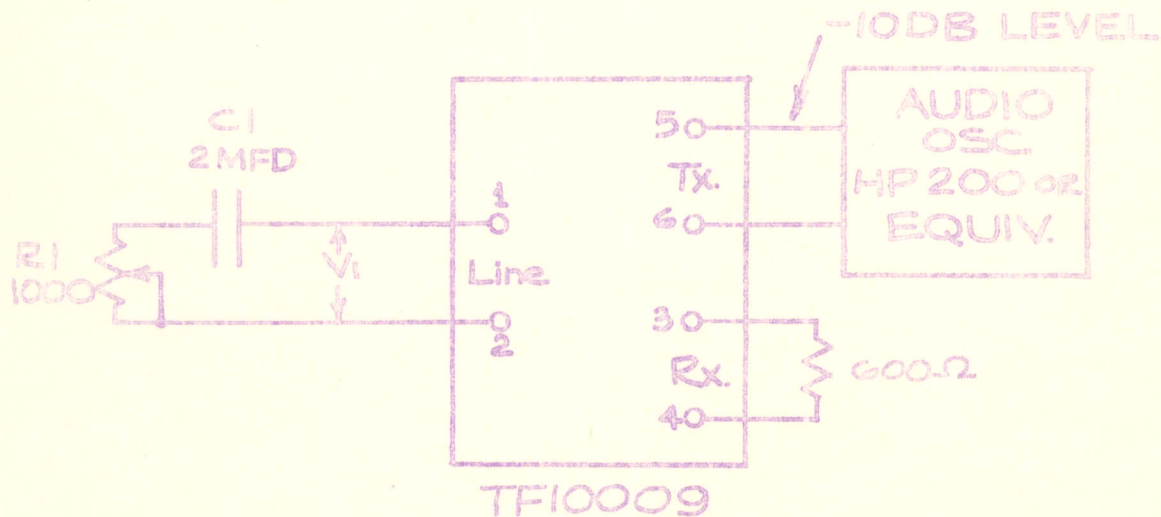
SET UP FOR CROSS TALK AND "RX TO LINE" LOSS MEASURING



Measure  $V_1$  for "cross talk" having adjusted  $R_1$  to null.

Measure  $V_2$  for "RX to line" loss, should be  $-6$  db  $\pm 0.5$  db below Ref. level.

SET UP FOR MEASURING "TX TO LINE" LOSS



NOTE:-  $C_1$ ,  $R_1$  combination should be as was in previous test.  $V_1$  should be  $-17$  db  $\pm 0.5$  db for  $-10$  db in, or  $7$  db loss  $\pm 0.5$  db.