

DATE 22-3-56
SH. 1 OF 2

TMC SPECIFICATION NO. S-10008-B

COMPILED BY
CLB

TITLE: RECEIVER SUBASSEMBLY, R-5007/FRR-502

JOB

APPROVED

MODIFICATION FOR SQUELCH OPERATION

1. TEST EQUIPMENT:

- (a) Signal Generator, Measurement Corp. Model 82
- (b) AC Voltmeter, -40 to +30 db range
- (c) 600 ohm, 2 watt carbon resistor
- (d) VTVM, Hewlett-Packard Model 410B

2. CONDITIONS:

For test, receiver controls to be set as follows:

- AC line voltage 110 V AC
- AVC switch ON
- BFO switch OFF
- Noise limiter OFF
- RF Gain control Maximum
- AF Gain control As detailed in paragraph 4(b)

3. DC CHECK:

1. With receiver "ON", RF Gain at minimum, V110 and V10⁴ removed, measure voltages between points specified below and ground using vacuum tube voltmeter.

- (a) pin 1, V110 voltage to be 11.5 V DC $\pm 20\%$
- (b) pin 1, V10⁴ voltage to be 11.5 V DC $\pm 20\%$
- (c) pin 7, V10⁴ voltage to be 6.0 V DC $\pm 20\%$

Insert V10⁴ in socket and recheck voltages at

- (d) pin 1, V10⁴ voltage to be 7.5 V DC $\pm 20\%$
- (e) pin 7, V10⁴ voltage to be 8.2 V DC $\pm 20\%$

NOTE: Under no circumstances should voltage in (d) be more positive than that in (e).

(f) Junction of R155, R156 negative voltage to be not less than -27 V DC

- 4. (a) Set signal generator to suitable frequency, output level to 6 UV modulated 30% at 1000 cps. (Allowance to be made for 6 db pad.)
 - (b) Turn squelch control fully counter clockwise and tune receiver. Adjust audio gain control to give 1.8 watts output (+ 30 dbm.)
 - (c) Turn squelch control until A/F audio output falls not more than 1 db.
 - (d) Set signal generator to output level 3 db lower than in (a) above.
 - (e) Audio output to be not more than -30 dbm.
5. With receiver and signal generator set as above but with signal levels as listed in test sheet, repeat test procedures above. Record results on test sheet.

DATE 12/3/56
SH. 2 OF 2

TMC

SPECIFICATION NO. S-10008B

COMPILED BY

TITLE: SQUELCH CIRCUIT TEST EQUIPMENT CONNECTIONS.

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10/24

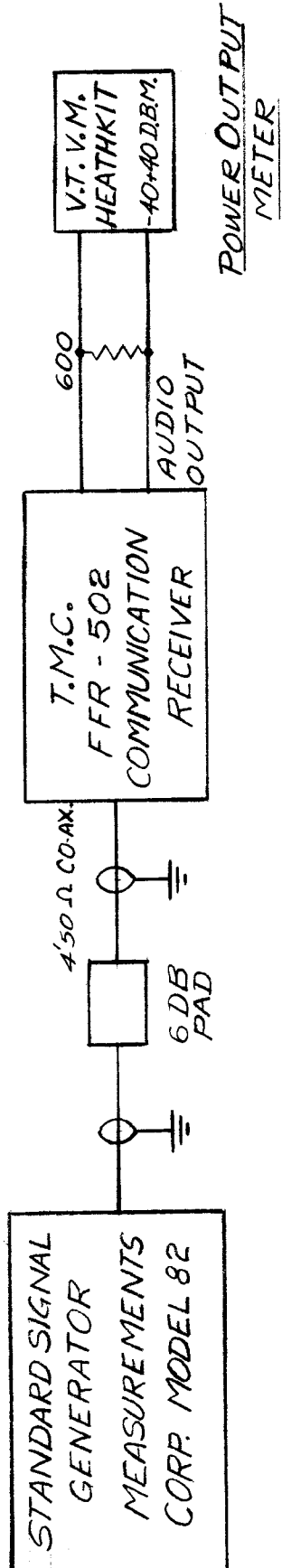


FIG. 1