

TEST INSTRUMENT REQUIRED

Signal Generator

Radiometer electronic
type: RE 101
or equivalent type up
to 2Mc.

DC/AC DVM

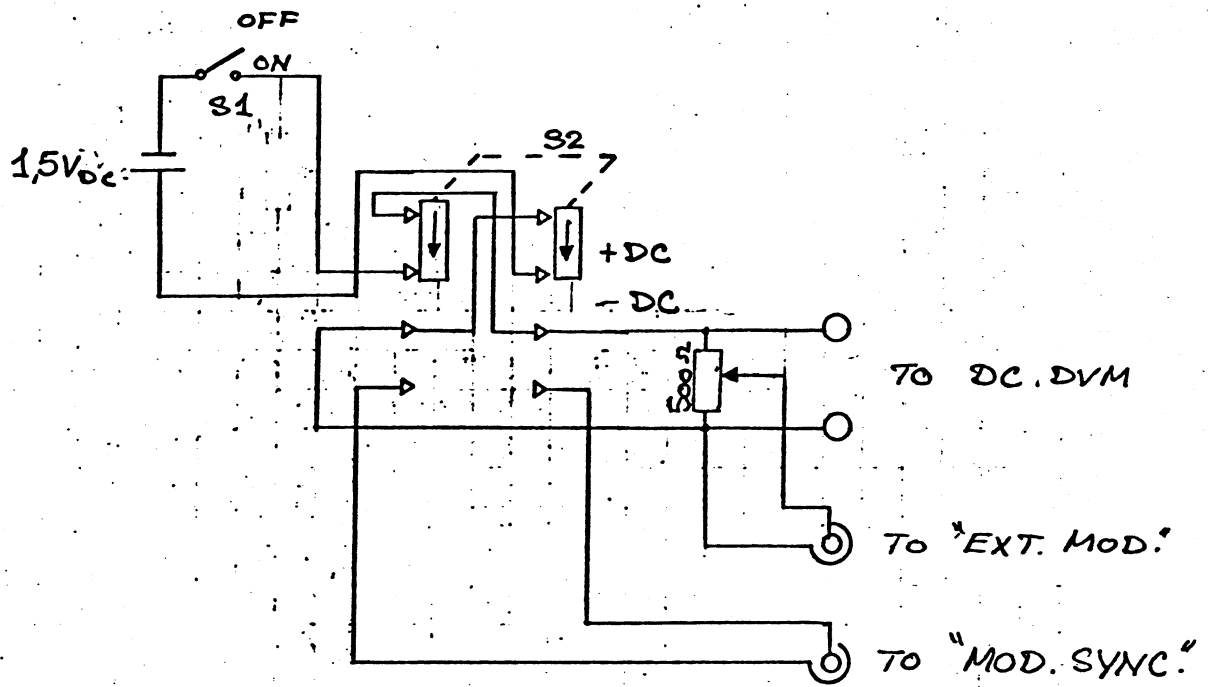
4 1/2 digit, sensitivity: 1 Volt
least significant digit: 100 μ V(See Fig. 1 for required testbox)
Proceed as follows

- 1) Set the Sig. Gen. to $1\text{Mc} \pm 1\text{Kc}$ for AFM 3,
 $2\text{Mc} \pm 2\text{Kc}$ for AFM 2.
- 2) Connect a 1.5V battery via a potentiometer (500 Ω) to "EXT. MOD." at Sig. Gen..
- 3) Connect a DC DVM to the power supply.
- 4) Adjust the DC voltage until the Sig. Gen.'s output frequency indicates 1.030 Mc.
- 5) Note the voltage, indicates at the DC DVM. This voltage will be referred to as U_1 .
- 6) Turn over the polarity from the DC power supply.
- 7) Adjust the DC voltage (if necessary) until the Sig. Gen.'s output frequency indicates 0.970 Mc.
- 8) Note the voltage indicated at the DC DVM. This voltage will be referred to as U_2 .
- 9) Calculate:
$$\frac{U_1 + U_2}{2} = U_3$$
- 10) Calculate:
$$\frac{U_3}{\sqrt{2}} = U_4 (= U_3 \text{ rms value})$$
- 11) Disconnect the DC power supply and connect the AF-osc. to the "EXT. MOD." at Sig. Gen..
- 12) Connect the MOD. SYNC. via a potentiometer (500 Ω) to EXT. MOD. and adjust the voltage to exactly the same voltage (U_4) as calculated in items 10).
- 13) Connect the output from the Sig. Gen. to the input connector at AFM.

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FM PERFORMANCE CHECK CONT.

- 14) Set the AFM between ranges E and F (see "preliminary instructions" in MAINTENANCE).
- 15) Check that the meter at AFM deflects to 30 Kc. If not refer to the maintenance in SERVICE MANUAL.
- 16) Disconnect the Sig. Gen..



It is useful to place a ten-turn potentiometer for regulating the 1.5V.

SPARE PARTS

code no.

1	battery	430-101
1	switch S1	510-204
1	switch S2	510-205
1	potentiometer 500Ω (ten-turn)	192-002

361 AM PERFORMANCE CHECK

TEST INSTRUMENT REQUIRED

Signal Generator

Radiometer electronic
type RE 101
or equivalent type up
to 2Mc.

Oscilloscope

Freq. band 2Mc

Proceed as follows

- 1) Set the Sig. Gen. to $\begin{cases} 1\text{Mc} \pm 1\text{Kc} & \text{for AFM 3} \\ 2\text{Mc} \pm 2\text{Kc} & \text{for AFM 2} \end{cases}$
- 2) Connect the Sig. Gen.'s output to Y-channel at the oscilloscope.
- 3) Connect the Sig. Gen.'s MOD SYNC. to X-channel at the oscilloscope.
- 4) Set the Sig. Gen. to CW and adjust the output voltage until display shows 5 divisions.
- 5) Set the Sig. Gen. to INT. MOD. and adjust, with the modulation potentiometer, until A are 6,5 divisions and B are 3,5 divisions, at the same time. (See Fig. 1 below).

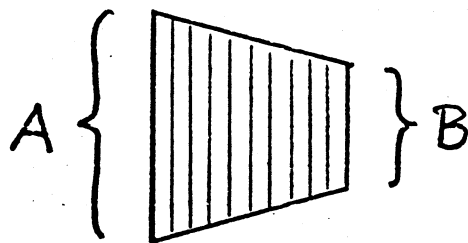


Fig. 1

(Calculation: $\frac{A-B}{A+B} \times 100 = \text{modulation (\%)})$

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AM PERFORMANCE CHECK CONT.

- 6) Connect the Sig. Gen.'s output to AFM input connector.
- 7) Set AFM RANGE selector between ranges E and F (see preliminary instruction in Manual).
- 8) Check that meter at AFM deflects to 30%. If not refer to MAINTENANCE in manual.
- 9) Disconnect the Sig. Gen..

TRIMMING COVER FOR AFM 2/3

