

either input terminal and ground. The noise to ground level is measured on the same color segmented scale as CKT NOISE but the range of measured noise is now arranged for the normal range of Power Influence measurements; the scale extends from 93 dBrnc to 75 dBrnc.

In most conventional noise measuring sets, 40 dB is added to the noise to ground measurements to take into account the difference between noise metallic and noise to ground measurement reference voltages; the sum gives the absolute level of noise to ground measurements. The PWR INFL scale on the meter is calibrated to provide the absolute value, so it is not necessary to add 40 dB to the measurement.

A non-locking push button switch is provided to add 20 dB attenuation of the input signal if the signal level is high enough to cause the meter to read off scale. In most cases, operation of the switch will bring the meter pointer back on scale. Consequently, the T136B has a range of measurement of about 35 dB.

A phone jack is provided to enable the tester to listen to the signals being measured without interfering with the measurements.

Three 4 ft. long leads equipped with clips and colored green for tip, red for ring, and yellow for ground are permanently attached to the set.

A non-locking push button switch is used to supply power to the measuring circuits from two small 9 volt batteries. No current is supplied by the batteries until the switch is depressed to take a reading. Consequently, the useful life of the batteries can approach shelf life because the ON period is usually very short.

2.0 PERFORMANCE SPECIFICATIONS

MEASURING RANGES

	<u>METER SCALE</u>	<u>LEVEL RANGE</u>
CKT LOSS	Red	above 0 dBm
	Green	0 to -10 dBm
	Red	below -10 dBm
CKT NOISE (Noise Metallic)	Red	30 to 33 dBrnc
	Yellow	20 to 30 dBrnc
	Green	below 20 dBrnc
PWR INFL (Noise to Gnd)	Red	90 to 93 dBrnc
	Yellow	80 to 90 dBrnc
	Green	below 80 dBrnc
MA	Orange	0 to 100 MA

FREQUENCY RESPONSE

Flat from 300 Hz to 15 kHz for CKT LOSS measurements;
60 Hz attenuated more than 27 dB. (See Fig. 4)

C-Message Weighting for Noise Measurements (See Fig. 5)

INPUT IMPEDANCE

CKT LOSS and CKT NOISE: 735 ohms

PWR INFL: Approximately 200,000 ohms between the input terminals and approximately 100,000 ohms between either input terminal and ground.

HOLD CIRCUIT

Resistance: 175 ohms

AC Impedance: Has no effect on measurements with 80 ma DC in coil.

CONTROLS, TERMINALS, JACK

Function Switch

ADD 20 dB Pushbutton Switch

PUSH TO MEAS Pushbutton Switch (Power)

Phone Jack

DIAL Terminals

CONNECTING LEADS

Three 4 ft. leads with clips and colored Green for Tip, Red for Ring, and Yellow for Ground.

BATTERIES

Two 9 volt batteries. Eveready No. 216 or equivalent (NEDA No. 1604).

SIZE

4 3/8" W x 6 3/8" L x 4 7/8" H

WEIGHT

3 lbs.

3.0 CIRCUIT DESCRIPTION

3.1 General

3.1.1 The complete circuit can be subdivided into 4 sections, as follows:

1. Input and meter section.
2. Circuit loss filter section.
3. Circuit noise and power influence section.
4. Quasi-rms detector section.

3.1.2 Each subsection will be described separately. Refer to the Schematic Diagram, Fig. 3 and the Parts Layout Drawing, Fig. 7