PEAK PROGRAMME METER AMPLIFIER AM20/2

General Description

The peak programme amplifier AM20/2 is an unmounted printed board having dimensions of $2\frac{1}{8}$ by 5 inches (5·6 by 12·7 mm) and a maximum height of $1\frac{3}{8}$ inches (3·5 mm). It is fixed by four 6-BA screws on 4 by $1\frac{7}{8}$ inch (10·2 by 4·75 mm) fixing centres.

The unit is intended for use in modular apparatus such as the Type-D sound equipment, and is incorporated, for example, in the auxiliary programme level meter ME12/8. The AM20/2 is a second grade PPM amplifier and has a circuit (Fig. 1) similar to that of the ME12/5, differing mainly in the use of silicon transistors, and its performance is similar when used with the same meters (to ED 1476). For information on the circuit operating principles reference should be made to the instruction for the ME12/5.

Test Procedure

Apparatus Required

Tone Source TS/10
A.C. Test Meter ATM/1
24-volt Stabilised Power Supply
Flick Test Apparatus
Stop Watch
Avometer Model 8
Meter to Specification ED 1476

D.C. Conditions

1. Measure the current consumption from the 24-volt power supply. It should be 37 ±2 mA.
2. With the Avometer Model 8, measure the voltages between the transistor emitters and the positive supply. They should be as follows:

TR2	0·6 volt
TR3	11·5 volts

A.C. Tests

1. Connect the meter ED 1476 to tag posts M+ and M−.
2. Connect a temporary strap between tag posts G and 0.
3. Using a source resistance of 300 ohms, carry out tests as specified for the ME12/5. The controls are as follows:

Sensitivity	R1
Law 1	R13
Law 2	R14

WWM(X) 2/72

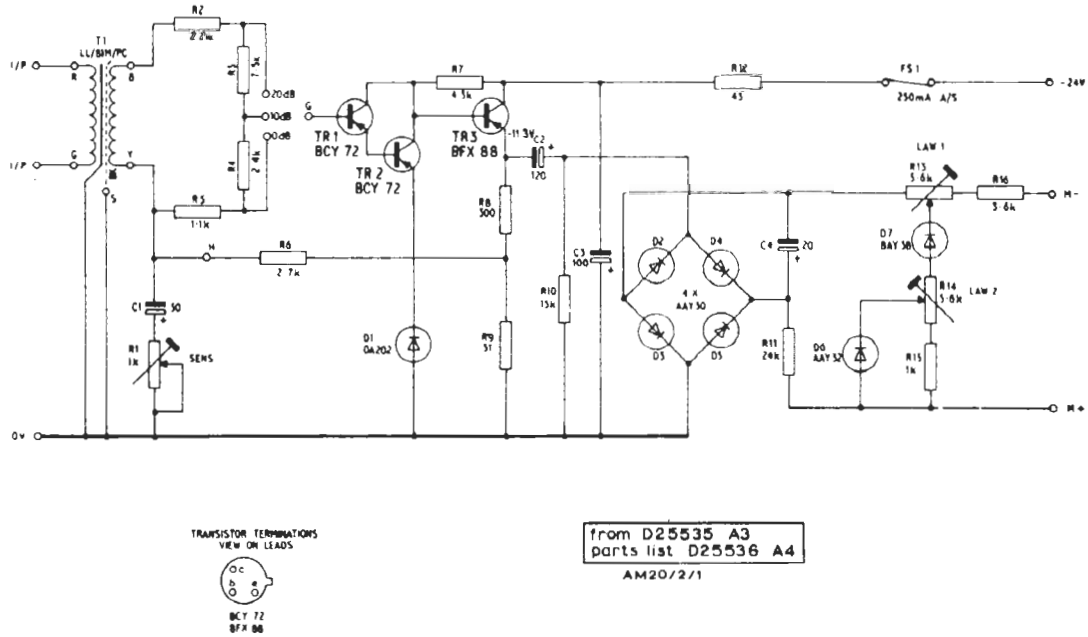

Fig. 1. Circuit of the AM20/2