

TELCOM PRODUCTS
CEDAR WORKS
HILLBOTTOM ROAD
HIGH WYCOMBE
BUCKS. HP12 4HJ
TEL: (0494) 450921

Magneto Desk Telephone



Magneto telephones are a development of the 1746 automatic telephone instrument currently in use throughout the world. They retain the attractive and modern design features of the 1746 and also provide the latest highly efficient receive and send characteristics.

Calling in the 1760 and 1761 magneto telephones is provided by a solid state ringing current generator which is powered from dry cells. The telephone and generator are an integral unit. Operation of the ringing generator is by means of a pushbutton which replaces the more usual crank handle associated with earlier models. The generator fitted in the type 1760 has sufficient power to ring up to four bells in series or two bells in parallel at the end of a 1000Ω line, whereas the type 1761 is equipped with a more powerful version capable of ringing up to ten bells in series or four bells in parallel also at the end of a 1000Ω line.

Both telephones are supplied with

line cords wired to terminal blocks. The 1760 telephone has a four conductor line cord and the 1761 telephone a six conductor cord enabling an extra extension to be easily connected.

The design incorporates printed wiring boards and the use of modern miniature components which provide utmost mechanical and electrical reliability. Ease of servicing is ensured by the simple internal layout. Whilst fully compatible with existing magneto systems, this telephone has the additional advantage that it can be converted into a central battery or automatic telephone if required. Also a direct line connection between two telephones may be arranged.

Built to a high standard of finish the telephones are suitable for use in all environmental conditions. All components exceed the requirements of British Standard Specification BS2011 category 10/055/21.

Technical data

Exterior

Case and handset moulded in copolymer of acrylonitrile butadiene and styrene (ABS) available in two-tone grey, grey, black or ivory. In the two-tone grey version the dummy dial, handset and cords are of the darker tone.

Cords

PVC-covered cadmium-copper tinsel conductor cords. Held in position by grommets which relieve conductors of any stress.

Line cord, straight	3000mm
Handset cord, coiled	250mm
Uncoiled	1700mm

Cradle switches

Sealed microswitches.

Ringing generator

Type 1760

Silicon transistor ringing generator powered by 4.5V d.c. will ring four 1000 Ω bells in series via one 1.8 μ F capacitor at the end of a 1000 Ω line or two 1000 Ω bells via two 1.8 μ F capacitors in parallel at the end of a 1000 Ω line.

Type 1761

When powered by 4.5V d.c. the generator will ring ten 1000 Ω bells in series via one 1.8 μ F capacitor at the end of a 1000 Ω line, or at 6.0V d.c. four 1000 Ω bells via four 1.8 μ F capacitors in parallel at the end of a 1000 Ω line.

Dimensions/weight (unpacked)

Height (over handset)	127mm
Width (over handset)	237mm
Depth	216mm
Weight: Type 1760	1.5kg
Weight: Type 1761	1.85kg

Dimensions/weight (packed)

Height	147mm
Width	266mm
Depth	230mm
Weight: Type 1760	1.93kg
Weight: Type 1761	2.28kg

OVERALL TRANSMISSION CHARACTERISTICS

Transmitter

Carbon granule replaceable capsule type. When tested at a mean free sound pressure of 20 dynes per sq. cm. with an artificial mouth the transmitter has a response characteristic typified by Fig. 1. The change in sensitivity over the input range 3–30 dynes per sq. cm. is less than 5dB at a given frequency in the range 300–3400Hz.

Receiver

Rocking armature, replaceable capsule type. The receiver has a mean sensitivity of +46 \pm 2dB relative to 1 dyne per sq. cm. per $\sqrt{\text{mW}}$ of available power when tested with an artificial ear. When driven by a 0.78 volts emf. from a non-reactive source the response characteristic is typified by Fig. 2.

Ringer

Double coil, resistance 1000 Ω , impedance ranging to 20K Ω at 1000Hz. Ringing current frequency range 15 to 30Hz.

Fig. 1 Typical sensitivity/frequency characteristics of transmitter inset

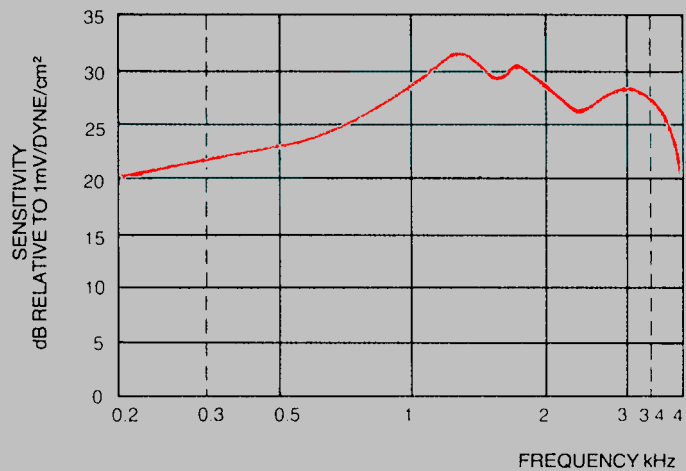
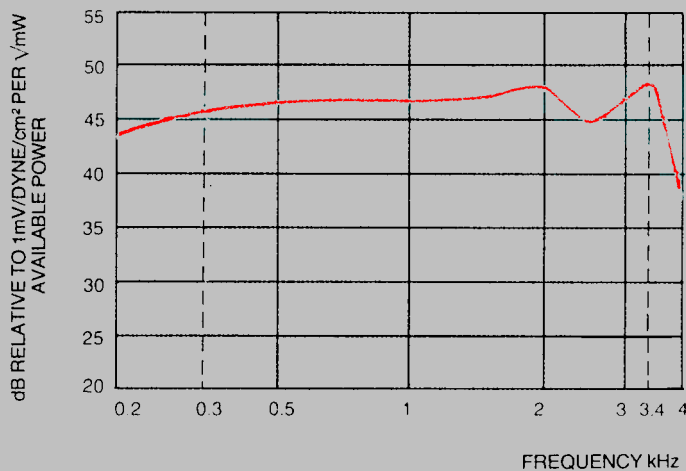


Fig. 2 Typical sensitivity/frequency characteristics of receiver inset



Power supply

An external power supply of 4.5V d.c. or 6.0V d.c. is required connected at the terminal block.

Conversion to C.B. and auto working

The appropriate parts for these conversions, together with the necessary circuits and fitting instructions, can be supplied.

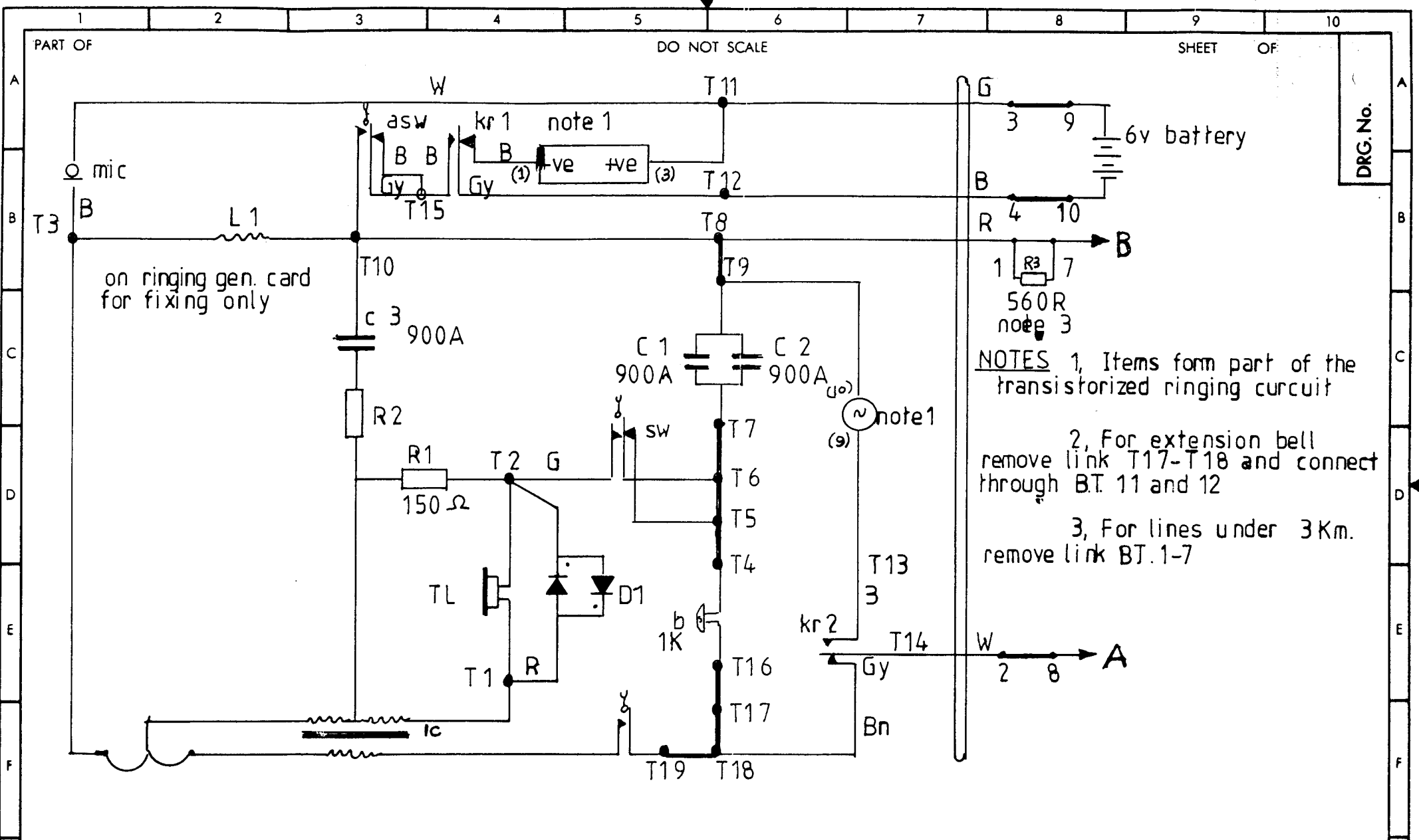
Wall conversion

A wall-mounting conversion kit can be supplied S538110.

Environment

Suitable for use in all climatic conditions.

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6v battery

560R
note 3

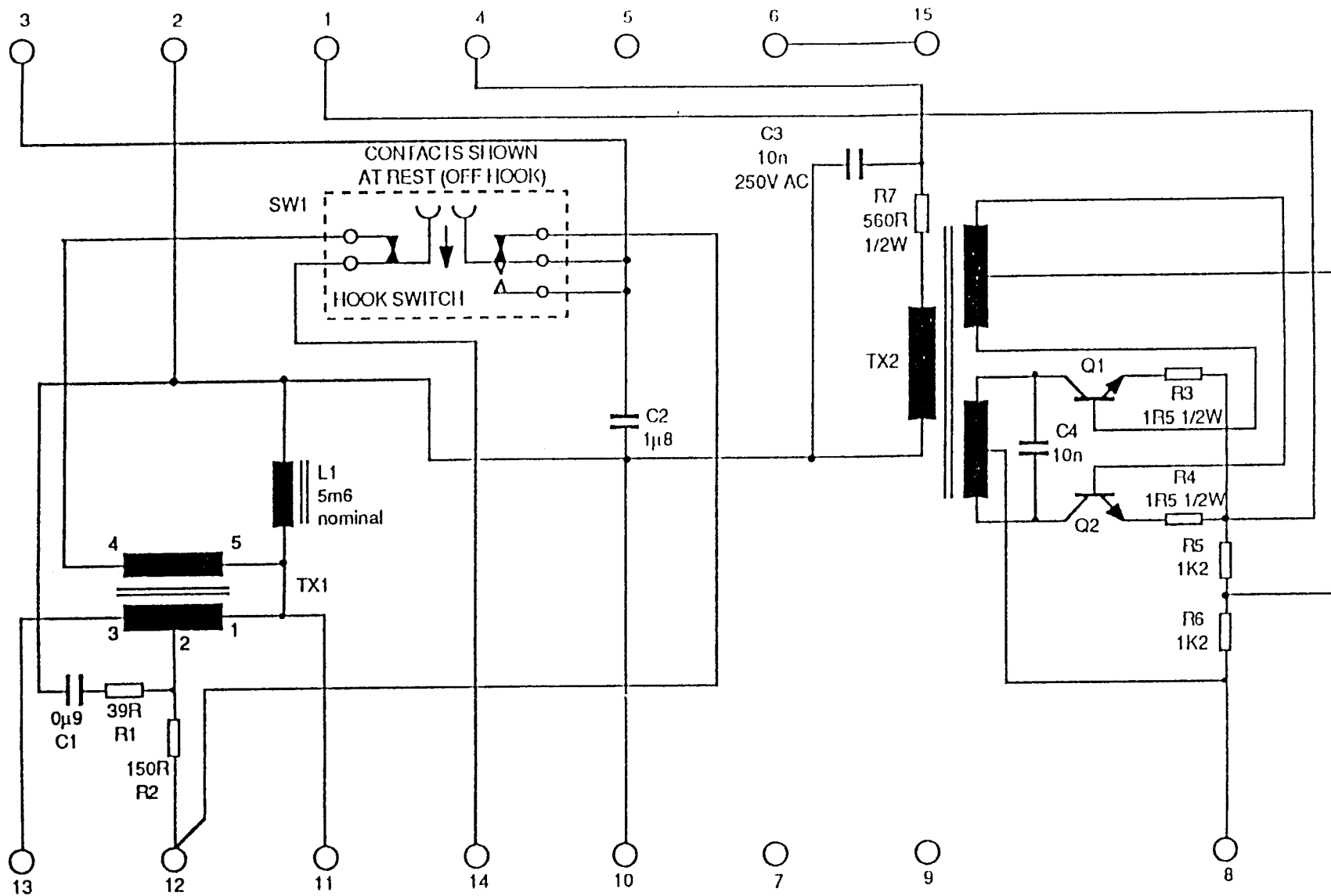
NOTES 1, Items form part of the transistorized ringing circuit

2, For extension bell remove link T17-T18 and connect through BT. 11 and 12

3, For lines under 3Km. remove link BT. 1-7

DRG. No.

ISSUE	DESCRIPTION	APPD	DATE	TITLE	DRAWN	TRACED	CHECKED	APPROVED	DATE
3				Local Battery Telephone 761					26/4/88
					DRAWING No. TT 1182/761				



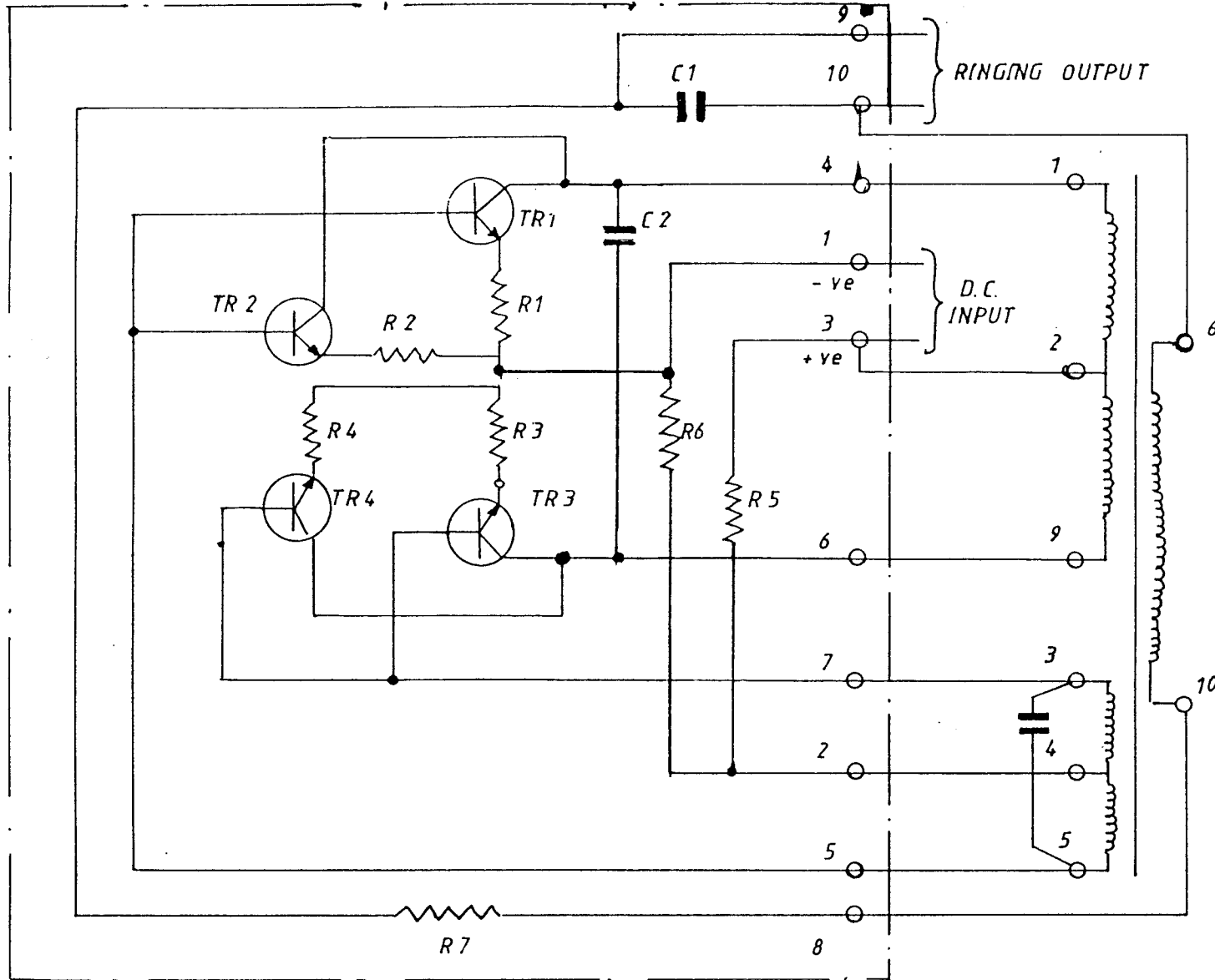
Rev.	Description	Drawing SCHEMATIC		Drawn	Checked	Approve	Date		
1	Terminal numbers changed	Title		MO			19	10	88
		716 MAGNETO TELEPHONE BOARD 0457/2		Drg. No.	LD1332		Rev.	1	
Tolerances		Materials		Angle	Red:Original				
				Scale	N.T.S				

PART OF

DO NOT SCALE

SHEET OF

DRG. No.



ISSUE	DESCRIPTION	APPD	DATE
1			

TITLE
 TRANSISTORIZED
 RINGING GENERATOR

DRAWN	TRACED	CHECKED	APPROVED	DATE
<i>[Signature]</i>				21 9 88

DRAWING No. A8/PO8