

World-challenging

SINCLAIR X-10

INTEGRATED 10 WATT
AMPLIFIER AND
PRE-AMP

SIZE
6" x 3"



AVAILABLE FOR
BUILDING OR
READY BUILT

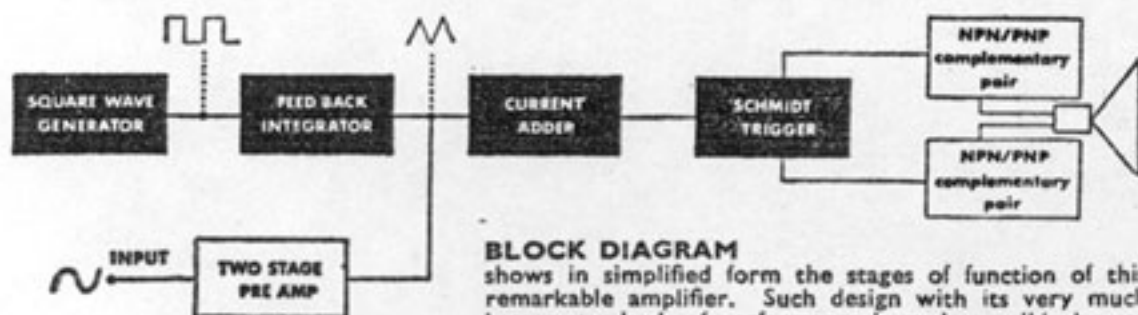
**THE ONLY DESIGN
IN THE WORLD TO
GIVE YOU ALL THESE
EXCITING FEATURES**

**THE ONLY
CONSTRUCTIONAL
AMPLIFIER IN THE WORLD
USING PULSE WIDTH MODULATION**

Hi-fi quality for very low cost

- ★ Pulse width modulated amplification.
- ★ Eleven transistor circuitry.
- ★ Unique four transistor output stage.
- ★ Input sensitivity of 1mV into 1K ohms.
- ★ 10 watts peak output into 15 ohms.
- ★ Total harmonic distortion less than 0.1%.
- ★ Choice of tone control system for mono or stereo to match pick-up, micro and radio inputs.
- ★ Power requirements—12 to 15 volts, D.C.
- ★ Very easy assembly.

By using pulse width modulation, the Sinclair X-10 integrated amplifier and pre-amp offers the constructor entirely new concepts of amplifier design and performance. Everything, except the tone and volume controls, is contained on the printed circuit board which measures only 6 x 3 in., and since no heat sink is necessary, the saving in space is enormous. This gives the constructor the opportunity to build a modern sleek hi-fi installation. In performance, the X-10 is a revelation in quality and power. There is no falling off at higher frequencies up to 20Kc/s, transient response is superb and current consumption for the power output obtained is appreciably less than in comparably rated conventional amplifiers. In fact the X-10 will operate perfectly well from two 6-volt lantern batteries. The Sinclair X-10 Manual included with every X-10 Amplifier explains how it functions and gives tone control and stereo matching circuits none of which costs more than a few shillings.



BLOCK DIAGRAM

shows in simplified form the stages of function of this remarkable amplifier. Such design with its very much better standards of performance is made possible by use of the very latest transistors and high quality components.

All parts for building, including 11 transistors, with X-10 Manual and instructions come to

£5.19.6

Ready built and tested with X-10 Manual

£6.19.6

X-10 Power Supply Unit (ready built) for A.C. Mains.

£2.14.0

★ FULL SERVICE FACILITIES ALWAYS AVAILABLE TO SINCLAIR CUSTOMERS

SINCLAIR

SINCLAIR RADIONICS LTD.
COMBERTON Cambridge

Telephone
COMBERTON
682

with P.W.M.

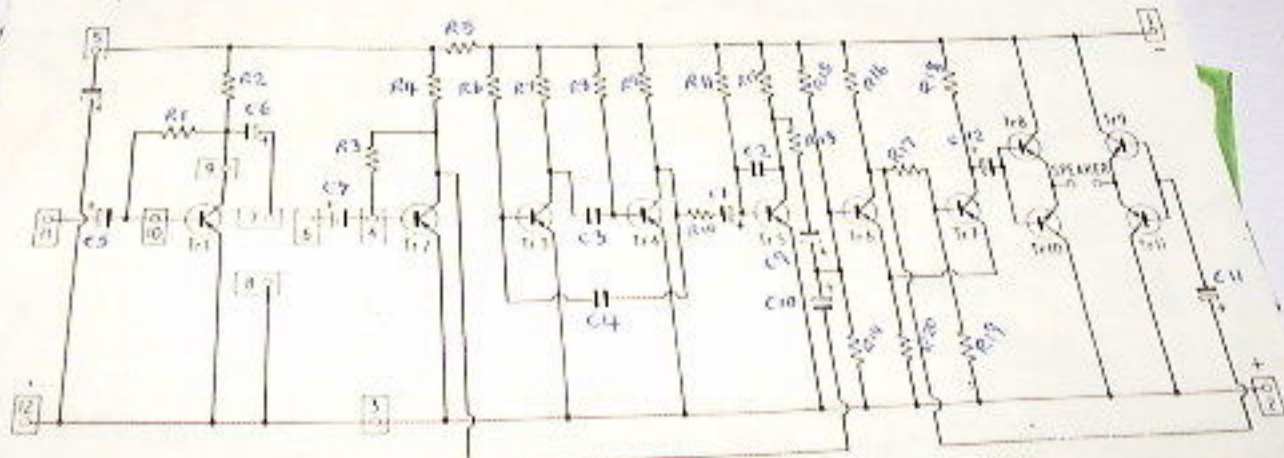


Fig. 1

CIRCUIT DIAGRAM OF SINCLAIR X-10 AMPLIFIER AND PRE-AMP

Tr.8

