

PHILIPS



PAL-COLOUR PATTERN GENERATOR

PM 5508

(9449 055 080.1)

9499 490 04911

11/369/3/02/03/04



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Operating manual

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IMPORTANT

In correspondence concerning this instrument, please state the type-, serial- and instrument number as given on the identification plate at the rear of the instrument.

GENERAL

I. INTRODUCTION

The PHILIPS PAL-colour pattern generator PM 5508 is an all solid state, mains supplied instrument. It is intended for use when installing, fault-tracing and repairing colour TV sets operating according to the PAL systems G and I and black/white TV sets operating according to the 625 lines CCIR systems B, I, G and H. The PM 5508 is suited for use with colour-TV receivers of various principles, the circuits of which could differ in many ways, e.g. R - G - B control of the picture tube instead of control with (R-Y), (G-Y) and (B-Y) and Y, separation of luminance and chrominance signal in the video stage instead of with the aid of an additional I.F. chroma detector, etc.

Therefore the instrument is designed so that it produces ten test signals, by means of which the complete receiver performance can be checked by simply observing the patterns on the screen. A complete test will only take a few minutes. If during this test it is observed that the receiver requires realignment, the latter can easily and accurately be done with the aid of the generator signals. Re-adjustments of the delay-line circuit, the chroma-demodulators and the amplitude-ratio of the colour-difference signals can even be carried out by simply using the screen of the receiver as an indicator.

The instrument moreover has the following features:

- The RF output signal covers the VHF- and UHF ranges.
- Presetting of 4 channels in the VHF range and any 4 channels in the UHF range; instead of one VHF-channel, the IF vision carrier can be preset.
- RF output signal continuously adjustable and sufficiently high to supply several receivers simultaneously.
- Sound carrier can be switched on/off.
- Sound carrier can internally be modulated with 1 kHz.

- Burst amplitude continuously adjustable between 0 and 200%, fixed nominal position.
- Composite 1 Vp-p video signal externally available.
- "LINE-" and "FRAME SYNC." signals externally available for triggering purposes.
- Handy, small and light-weight instrument suited for workshop as well as mobile service.