

## TRANSISTORISED TV BOOSTER AND 4 SET COUPLER

INCORPORATING AN ATTENUATOR TUNEABLE
TO ANY ONE CHANNEL FROM O TO 5A

## **MODEL 0024**

THE VU-TRON T.V. BOOSTER AND 4 SET COUPLER WAS DEVELOPED BY FERRIS-CHANNEL MASTER FOR INDOOR APPLICATION, AND IS PARTICULARLY SUITABLE FOR SMALL T.V. DISTRIBUTION SYSTEMS WITH UP TO 4 T.V. RECEIVERS, WHEN 300 OHM RIBBON IS USED FOR SIGNAL DISTRIBUTION.

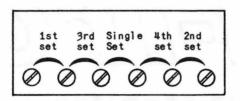
INSTRUCTION MANUAL

CHANNEL MASTER



## Vu-tron installation instructions

- 1. Mount Booster-Coupler Unit to wall or any convenient location.
- Attach twin lead from antenna to terminals at top of Booster-Coupler Unit. NOTE: The terminals are insulation piercing making it unnecessary to strip twin lead.
- 3. USE CENTRE TERMINALS FOR TWIN LEAD TO SINGLE SET. For multiple sets connect as indicated:



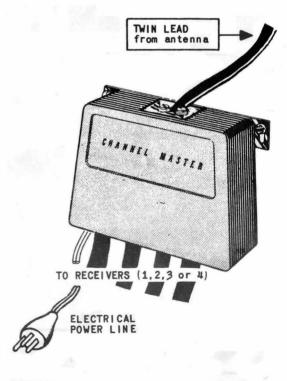
4. Connect electrical power line to 240 volt 50 cycles AC outlet.

Since this is a transistorised unit, no warm-up time is required. Current drain is less than an electric clock, so unit may be left connected at all times.

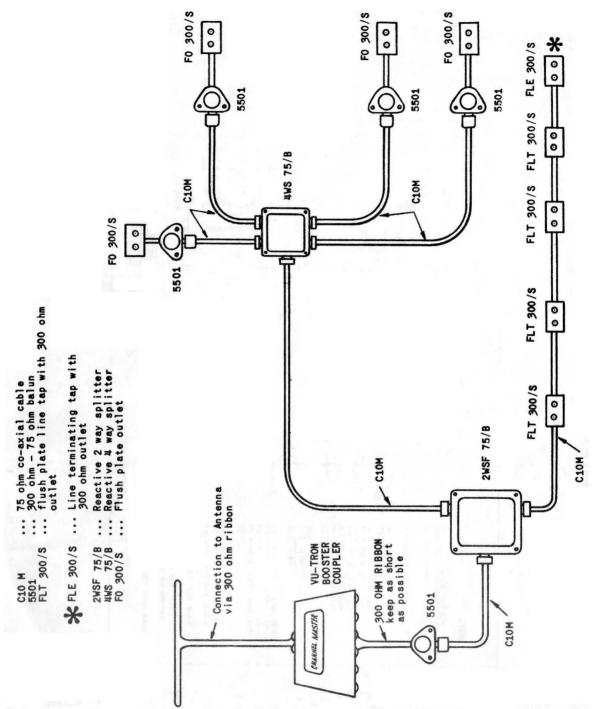
5. ATTENUATOR. A single channel (selective) attenuator is incorporated in the Vu-tron to permit effective suppression of any one TV channel from 0 to 5A. The attenuator reduces the signal strength of the TV channel to which it is adjusted, thus eliminating overload and cross-modulation problems caused by local TV stations on the lower channels.

ATTENUATOR ADJUSTMENT. The attenuator consists of a resonant trap circuit, adjustable by means of a 3-30 PF air trimmer located near the 300 ohm input terminals and accessible after removal of the plastic housing.

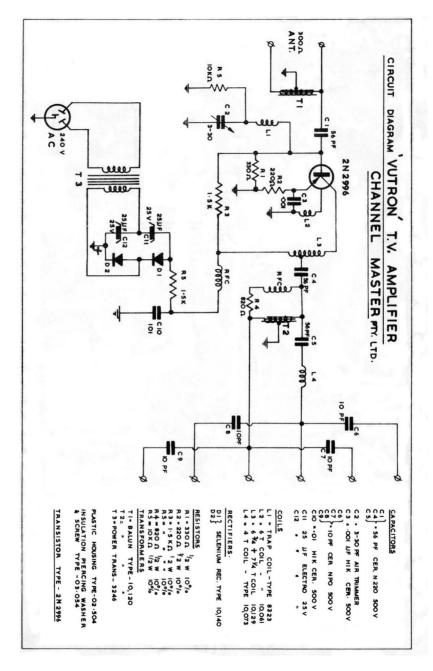
OVERLOAD. This is caused by excessive signal input to the TV set. It shows up as a smeary, pale picture or in severe cases as a negative picture: tune TV set to overloaded channel and adjust attenuator until overload disappears. CROSS MODULATION. Generally shows up as "windscreen wiper" effect on a high band channel caused by second or third harmonic of a low band channel: tune TV set to high band channel showing cross modulation and adjust attenuator to eliminate the effect. The attenuator offers a signal reduction of 20 db, which is normally more than adequate. Under extremely high signal conditions additional attenuation is available with the Ferris-Channel Master low band Local Channel Suppressor LCS/20, or the high band Local Channel Suppressor HCS/20 inserted in the input lead of the Vu-tron.



NOTE: It is of utmost importance to keep the input and output lead of the Vu-tron well separated, otherwise instability of the booster may occur.



Under favourable conditions the Vu-tron Booster can equally well be employed as distribution amplifier for small multiple TV installations feeding up to 12 TV receivers. However, it is recommended that the installation is constructed with co-axial cable such as the Ferris-Channel Master Low Loss Polythene Foam Cable, Type C10M. A typical example is shown above where correct application of Ferris-Channel Master multiple installation accessories is demonstrated.



## CHANNEL MASTER PTY. LIMITED