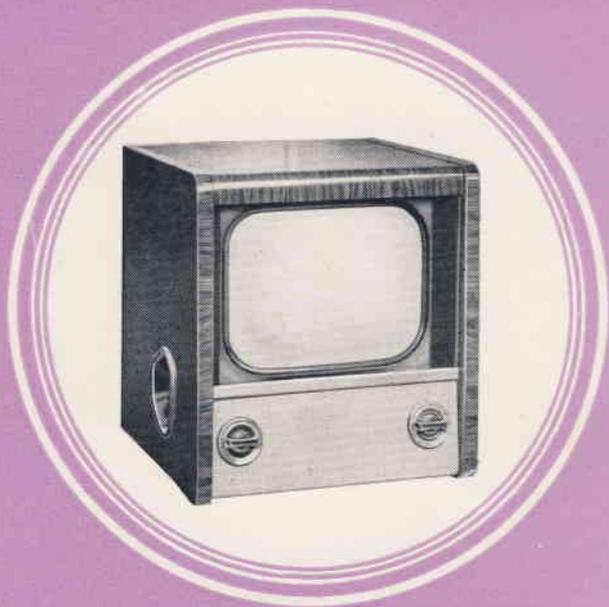


*your*  
**EKCOVISION**  
*instruction book*



14" TUBE TABLE MODEL T326

*THIS booklet has been prepared to help owners of Ekcovision receivers to get the best out of the superb entertainment offered by television. It is not an installation guide because Ekco policy ensures that each receiver will be installed by a competent Ekcovision Dealer—the owner need grasp only the simple operating instructions. Where reference to installation is made, it is merely to help the owner to a fuller understanding of the normal operation of the receiver.*

★ IMPORTANT NOTE

YOUR GUARANTEE APPLICATION MUST BE  
POSTED WITHIN 7 DAYS—SEE BACK COVER

# EKCOVISION

## Aluminised Tube Table Model

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In these days any good radio will produce some music and speech just by switching on—irrespective of the aerial. With television this is not so and your television aerial is a most important item in securing good reception. While there is no advantage to be gained from the use of a costly array in localities where a simple and inexpensive aerial would be satisfactory, the performance of a good receiver can be seriously impaired by the use of an unsuitable or inferior aerial installation. Your Ekcovision dealer will be glad to advise you concerning the most suitable aerial installations for reception of stations in Band I and Band III.

The receiver incorporates many important advances in television technique among which are the following:

### MULTI-CHANNEL TUNING

The high-efficiency Turret Tuner incorporated in this receiver is of proved reliability and is fitted with pre-tuned coils to cover several television channels, including the B.B.C. and I.T.A. channels applicable to your locality at the time the receiver left the factory.

A twelve-position Selector Switch is provided so that tuning coils for further channels can be included if ever required. The Selector Switch is clearly marked to show the channel selected.

### FULL AUTOMATIC CONTROL OF PICTURE AND SOUND

This is designed to maintain a steady picture when signal strength variations are caused by atmospheric fading, change of channel or aircraft flying nearby.

### DAYLIGHT VIEWING

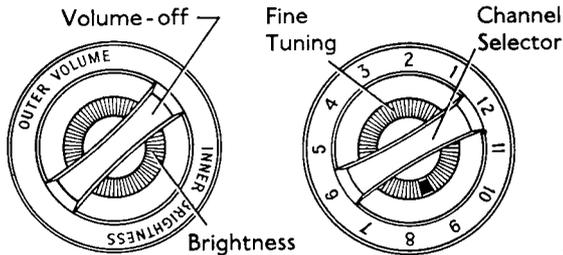
An optical filter and aluminised tube ensure pictures of exceptionally high contrast and definition, giving superior daylight viewing. In order to preserve the superb tonal range of the picture it is advisable to prevent direct light from the window, etc., from falling on the screen.

## MAINS SUPPLY

This Ekcovision receiver is for operation on mains supplies of either 200-250 volts A.C. 50 cycles or 200-250 volts D.C. The mains tapping panel which is inside the back of the receiver must be correctly adjusted by the installing engineer to suit your particular supply. This entails adjustment of four connections.

*Note: On D.C. Mains, the mains plug must be inserted in your mains socket the same way round as it is left by the installing engineer. If the plug is inadvertently reversed, the receiver will not operate while, in the case of 200 volt D.C. mains, the receiver fuses will 'blow'. This can be avoided by using a non-reversible mains plug.*

## OPERATING CONTROLS



### VOLUME/ON-OFF CONTROL

Turned fully anti-clockwise, this switches the receiver 'off'. Turned clockwise, it first switches the receiver 'on' and then increases the sound volume.

### BRIGHTNESS CONTROL

Turned clockwise, this increases the brightness of the picture and vice-versa. It is adjusted according to individual preference but it should not be turned any further in a clockwise direction than is required to provide a satisfactory picture. It is to some extent interrelated with the pre-set Contrast Control.

### CHANNEL SELECTOR

This is simply turned to bring the appropriate channel number uppermost to receive the required programme. Your Ekcovision Dealer will tell you which channels are applicable to your locality.

### FINE TUNING CONTROL

After selecting the required programme this control should be adjusted to give the best picture quality and clear sound reproduction.

## OPERATION

To switch on, turn the Volume/On-Off Control clockwise about half a turn. If the controls have not been altered since the instrument was last used, sound will be heard within about half a minute and after a further short interval the picture will appear.

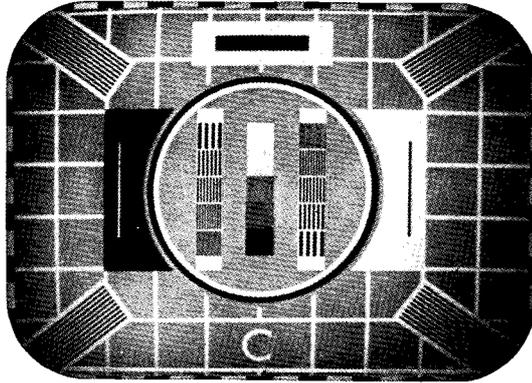
It is important to check the adjustment of the Fine Tuning Control as incorrect adjustment may result in either an inferior picture or even no picture or sound at all. It will be found that if this control is turned slightly clockwise from its correct position, horizontal dark streaks will appear on the screen and the picture will be distorted in sympathy with the accompanying sound. If the control is now turned slowly anti-clockwise from this position, the dark streaks will disappear leaving a clearly defined picture as the correct tuning point is reached. This point will also coincide with maximum sound. If the control is turned anti-clockwise beyond the correct tuning point, the picture clarity will suffer and sound will become weaker. Turning the control very far in either direction may lose picture and/or sound altogether.

To change to another television programme, turn the Channel Selector to bring the required channel number uppermost **and readjust the Fine Tuning Control to find its correct position for the station concerned.**

## PRE-SET CONTROLS

If satisfactory adjustment cannot be obtained by means of the operating controls it may be necessary to adjust the pre-set controls, the functions of which are described on page 9.

Once the receiver has been installed by the engineer there will seldom be occasion to touch the rear pre-set controls. Although you are recommended to leave these controls untouched, they may be moved accidentally and you should have some knowledge of their purpose and use. They are introduced on page 9 in the order in which they are most likely to be used, and a diagram on page 10 shows their location on the receiver.



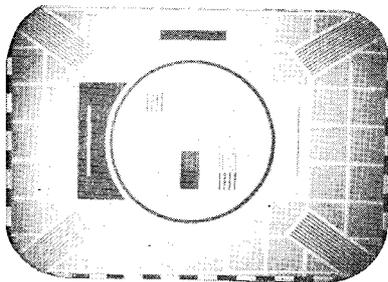
The effects of adjusting controls can be most clearly seen when receiving a test pattern such as this or the tuning signal which is transmitted immediately prior to the commencement of programme transmissions.

The picture shown here is Test Card 'C' which is transmitted by both I.T.A. and B.B.C. stations at various times out of programme hours. It can be seen that there is a block of five different tones in the centre of the circle. The lowest square should be black and the highest square should be white with the intermediate squares each a different tone of grey. This will be achieved only when the Brightness and Contrast controls are both correctly set, the effect of incorrect settings being shown in the first two pictures on the next page.

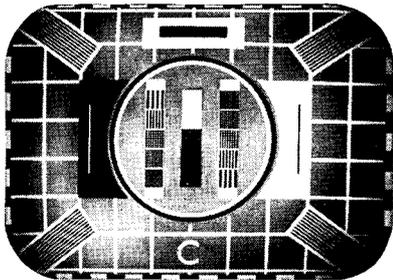
*Note: In the unlikely event of a fault in the receiver causing a bright spot or line to appear in place of the picture, the receiver should be immediately switched off to avoid damage to the cathode-ray tube. The fault should be rectified by your Ekcovision Dealer before switching on again.*

## **FAULTS CORRECT THEM**

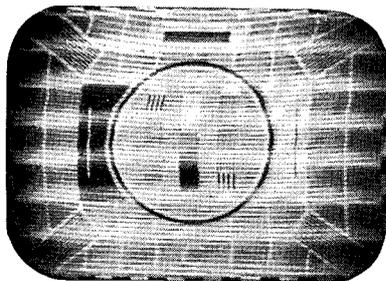
When your Ekcovision Dealer installs the receiver, he will explain how easy it is to get a satisfactory picture. The following illustrations, showing various faults, will help to remind you. The pre-set controls are illustrated on page 10.



**Reduce Brightness and increase pre-set Contrast if necessary**



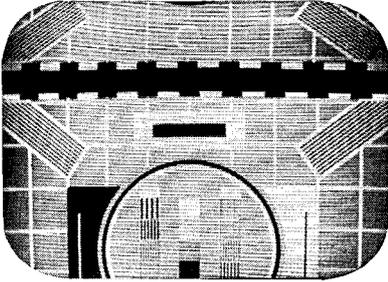
**Increase Brightness and reduce pre-set Contrast if necessary.**



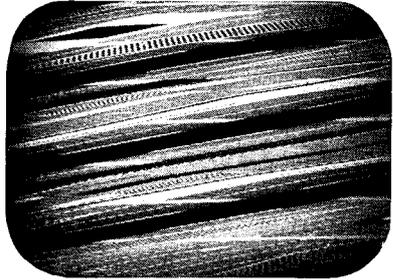
**Fine Tuning Control is slightly too far clockwise—Readjust as described under 'Operation'.**

## PICTURE FAULTS

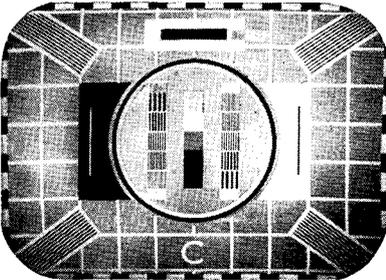
(continued)



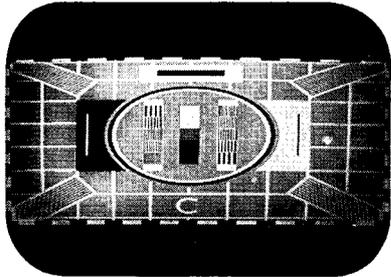
Picture moving vertically up or down—Adjust pre-set Vertical Hold. (See pages 9 and 10.)



Picture breaking into strips—Adjust pre-set Horizontal Hold. (See pages 9 and 10.)



Picture highlights turning black — Adjust Automatic Interference Inverter. (See pages 9 and 10.)



Picture not high enough (or if too high)—Adjust Picture Height. (See pages 9 and 10.)

## PRE-SET CONTROLS

(See illustrations on next page)

### SIDE

1. **CONTRAST CONTROL.** This alters the relative level of illumination of the various objects in the scene being transmitted. The correct setting is a matter of individual preference. If it is turned too far clockwise the picture will lack half-tones (i.e., it will be sharply black and white). If it is set too far anti-clockwise, the picture will be 'flat' and without contrast. Generally it will be found that an increase in contrast requires a decrease in brightness and vice-versa.
2. **VERTICAL HOLD ADJUSTMENT.** This locks the picture in a vertical direction. It is correctly adjusted when it is set approximately midway between the two points at which the picture fails to remain stationary.
3. **HORIZONTAL HOLD ADJUSTMENT.** This locks the picture in a horizontal direction. It should be set approximately midway between the two points at which the picture 'breaks up'.

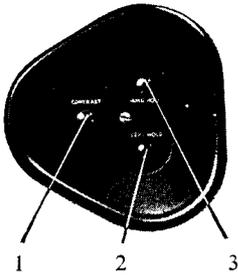
### REAR

4. **AUTOMATIC INTERFERENCE INVERTER.** This is set by the installing engineer to suit local reception conditions and it automatically accommodates itself to changes in the contrast control setting. Should it become necessary to reset it, first turn the control fully anti-clockwise, then, with a normal picture on the screen, turn the control slowly clockwise until the brightest highlights in the picture begin to darken; then turn the control anti-clockwise again just far enough to lose the darkening of the highlights. This will result in any large bright spots, due to electrical interference, being reduced as far as possible to less noticeable small black specks.
5. **PICTURE HEIGHT ADJUSTMENT.** This is adjusted at installation so that the picture just fills the mask from top to bottom.
6. **VERTICAL LINEARITY ADJUSTMENT.** This is adjusted at installation so that there is no stretching or cramping of parts of the picture in a vertical direction; it will also affect picture height. It can only be adjusted when a regular pattern such as the test-card or tuning signal is being received.

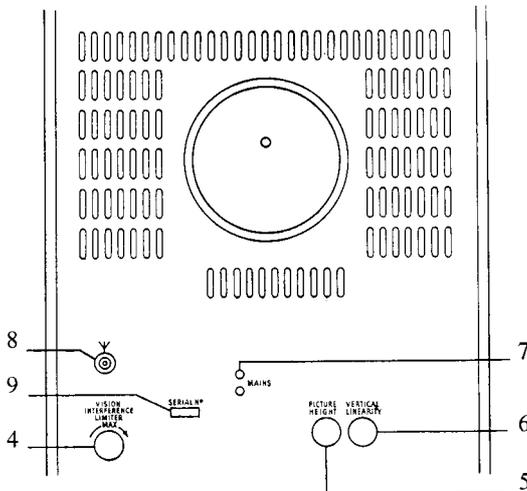
## KEY TO DIAGRAMS

1. Contrast.
2. Vertical Hold.
3. Horizontal Hold.
4. Automatic Interference Inverter.
5. Picture Height.
6. Vertical Linearity.
7. Mains Socket.
8. Aerial Socket.
9. Serial No.

### SIDE CONTROLS



### REAR CONTROLS, ETC.



## GENERAL NOTES FOR EKCOVISION OWNERS

E. K. Cole Ltd. are satisfied that an efficiently operated Maintenance Scheme is a service to be recommended to all who buy a television receiver. If, after due consideration, you decide to take advantage of such a service, then you should discuss this with the Ekco Dealer who supplied your receiver.

Your Ekcovision receiver is capable of giving years of enjoyment, if correctly maintained and although it is more complicated internally than an ordinary radio receiver, it is nevertheless extremely reliable and simple to operate.

We wish you to get the maximum enjoyment from your receiver, and the best advice we can give is to call on your Ekco Dealer immediately in case of doubt. He is a specialist who is appointed to help.

If for any reason you wish to consult us direct—for example if your local dealer is not available—we shall be pleased to answer your query.

Television short-wave signals are liable to interference from certain electrical installations, but the G.P.O. has set up a special organisation to deal with this. You should, in your own interest as well as that of other viewers, immediately report any persistent case—using form T466G obtainable at any post office.

During emergency periods when there is a heavy drain on the electricity mains, the functioning of your receiver may be temporarily impaired.

Remember that you must have a television licence from the G.P.O. If you already have a radio licence and you produce it, you can obtain a rebate depending on the date of its expiry.



The EKCO organisation is renowned for its pre-eminence in the practical application of all the best technique in radio and television. By patent exchange agreements with other important British and Foreign research organisations, the best developments, not only of the Ekco Laboratories, but also those of all the most important laboratories of the world are incorporated in Ekco products.

### ***The Ekco Guarantee***

In common with all Ekco Radio Products, EKCOVISION receivers are guaranteed for twelve calendar months from the date of delivery to the original user, subject to the conditions set out on the Guarantee card sent with the receiver. **It is essential for you to read, complete and return the card within seven days to enable us to register your guarantee.** The separate Cathode-ray Tube Guarantee card must be completed and returned to the cathode-ray tube manufacturers at the same time.

## **E. K. COLE LTD.**

**Ekco Works, Southend-on-Sea, Essex**

*Service Centre*

**Somerton Works, Southend-on-Sea, Essex**

*Phone : Southend 42296*

*Provincial Service Depots*

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Manchester 4**

*Phone: Collyhurst 4421/3*

**17 Cadogan Street  
Glasgow, C.2**

*Phone: Central 3633/4*

**11 Brook Street  
Birmingham**

*Phone: Central 2505/6*