

**T/V Console Models**  
**LV21C & BV21C**  
*(London) (Birmingham)*



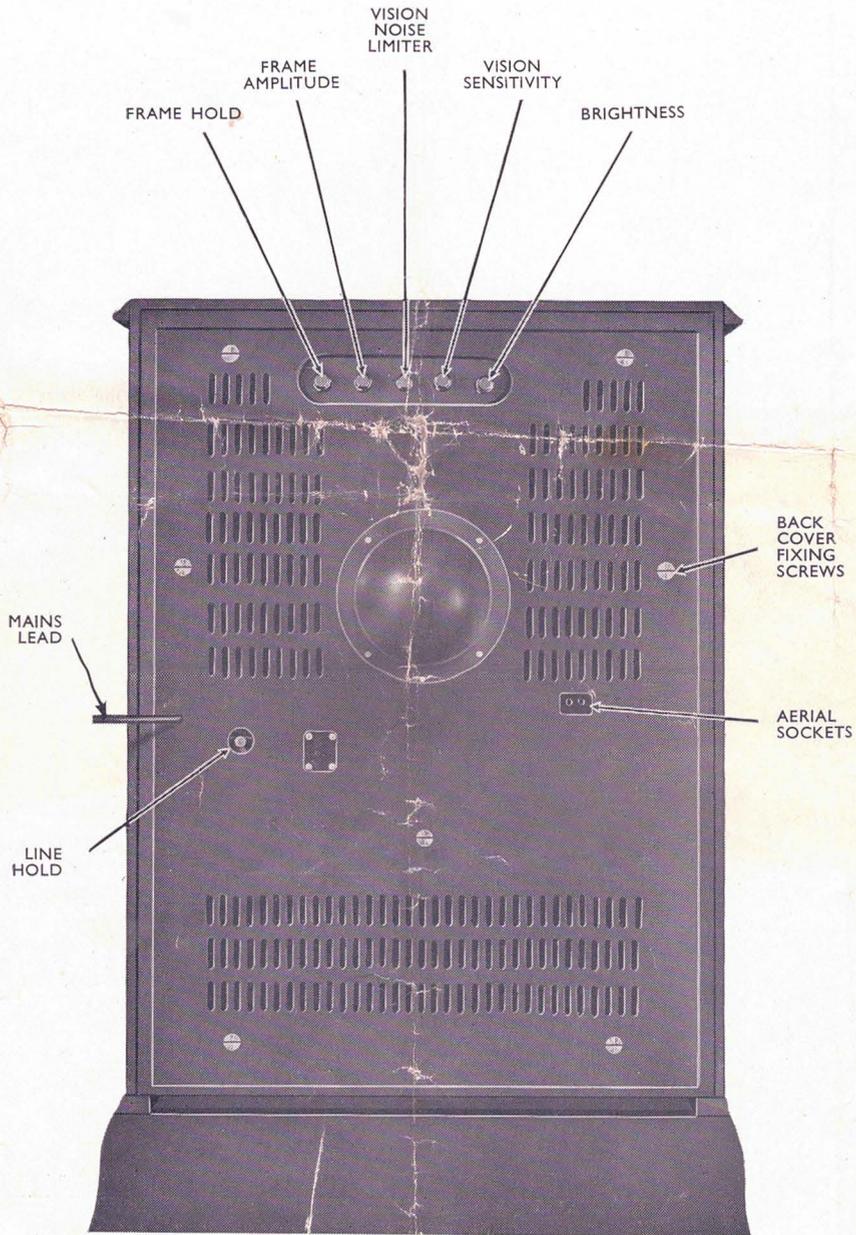
***instructions for  
installing and  
operating***

PYE LIMITED, CAMBRIDGE

# introduction

These T/V Receivers have been designed and produced to give with ease of operation, highly efficient reception of the Alexandra Palace (LV21C) and Sutton Coldfield (BV21C) high definition television transmissions.

Normally the installation engineer will take care to give full instructions concerning the correct method of operating the receiver and the function of each control. It will be of assistance to you, however, and ensure correct operation, if you carefully read the instructions and information on the following pages.



# **installation instructions**

**1** Remove the back cover. Detach the Record Card and return it to Pye, Ltd., Cambridge, duly completed. N.B.—This receiver is covered by the Pye Guarantee if the Record Card is completed and returned to Pye Ltd. within seven days of the date of installation. The Guarantee Form which is sent with the receiver must be filled in by the Pye Agent from whom you purchase the receiver.

**2** This receiver will operate on a 50 cycle A.C. supply of 230-250 volts. See that the mains voltage adjustment plug is set in accordance with the voltage of your supply. An auto-transformer can be supplied for mains voltages between 190-220 volts A.C. If it is desired to operate the receiver between 230-250 volts D.C. supply, your Agent will make the slight adjustment necessary. We do not recommend working the receiver below 230 volts D.C. as this may result in damage to the valves and Cathode Ray Tube. When operating the receiver on D.C. supply the mains plug must be inserted in its socket the correct way round. Consult your Pye Agent on this point.

**3** Make sure that all the valves are firmly in their holders with flexible leads correctly connected. The position of valves of the same type must not be altered. See also that the Loud Speaker plug is connected to the socket marked L.S.

When replacing the back cover see that the two Mains Safety Coupling Pins locate in their sockets on the back of the receiver.

**4** To ensure adequate ventilation for the receiver a space of at least four inches should be provided between the back of the set and any obstructions (e.g. curtains). See also that the air space underneath the receiver is not obstructed in any way.

When the back cover is removed the mains supply is automatically disconnected from the receiver by means of the Mains Safety Coupling Pins, but no responsibility can be accepted by the makers for electric shocks experienced by persons who, by tampering with the mains safety device, succeed in operating the receiver with the back cover out of position.

## **★ important**

**PRE-SET CONTROLS.** These controls are located at the back of the receiver and should not normally require adjustment after they have been correctly set by the installation engineer. The function of these controls is explained in the table under the heading "PRE-SET Controls."

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# **operating instructions**

**1** Switch on by turning the Volume Control (right hand knob positioned in front of and beneath the top of the cabinet) in a clockwise direction until the mains switch is heard to operate. Wait approximately one minute to allow the valves and Cathode Ray Tube to heat up.

**2 (a) INSTALLATION PROCEDURE.** Set the Contrast Control (left hand knob) to approximately mid position. Then adjust the Vision Sensitivity Control (on back of receiver) to obtain a picture. Finally adjust Contrast Control, in conjunction with the Brightness Control (on back of receiver), until a picture of best light and shade is obtained.

**2 (b) NORMAL OPERATING PROCEDURE.** Adjust Contrast Control until a picture of best light and shade is obtained. The Brightness Control may occasionally need some variation.

**3** Adjust the volume level of the sound by turning the Volume Control.

**4** To switch off turn the Volume Control to a fully anti-clockwise position.

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# **notes**

**SERVICE.** If at any time the receiver requires attention and cannot be adjusted by means of the controls mentioned, reference should be made to your Pye Agent.

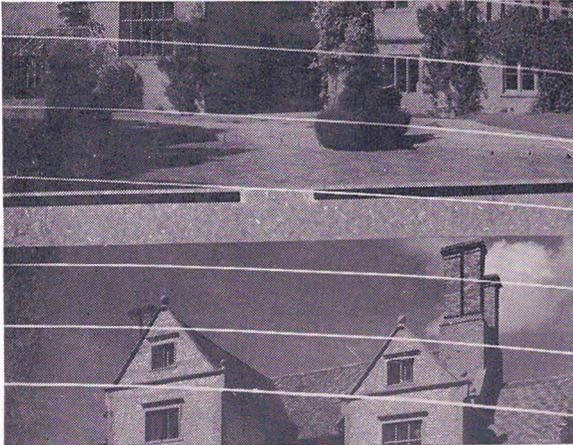
**AERIAL.** The Pye Agent will be pleased to advise you on the best type of aerial to use in your particular locality. The receiver has been designed to operate from an 80 ohm twin down lead and the recommended type of cable is the B.I.C.C. Type No. T3066 or Associated Technical 80 ohm twin feeder Cat. No. 302 or T.C.M. cable K20.

## **PLUG ASSEMBLY**

The Pye aerial plugs will be found in a sealed envelope inside the receiver carton. To connect twin feeder to plugs, first split feeder centrally by means of a sharp knife for approximately  $1\frac{3}{4}$  inches, then remove Alkathene from wires for approximately  $\frac{1}{2}$  inch.

Thread wire and Alkathene covering into the hole in the end of the plug, bringing the bare  $\frac{1}{2}$  inch of wire through the hole situated near the screw head. Care should be taken to ensure that the Alkathene covering is pushed well down into the body of the plug.

Twist the end of the bare wire round the screw and tighten up.



**fig 1**

Picture unsteady, slipping up or down.  
Frame Hold incorrectly adjusted.

**fig 2**

Picture distorted, unsteady in the horizontal direction. Vertical black band appearing on screen.  
Line Hold incorrectly adjusted.



**PRE-SET CONTROLS (located at the back of the receiver)**

<i>Effect</i>	<i>Control Adjustment Necessary</i>
Picture unsteady or slipping up or down. Fig. 1.	Frame hold. This control should be adjusted and left in the centre of the range of control over which the picture remains steady in the vertical direction.
Picture height not equal to that of the screen.	Frame amplitude. This control should be adjusted until the picture height is equal to that of the mask.
Large white spots on the picture (due to impulsive interference, i.e. car ignition). Highlights "flat." Insufficient contrast between light and dark objects.	Vision noise. Normally this control should be set fully clockwise. If large white spots appear on the picture, the control should be moved anti-clockwise to a position where the spots are reduced in size. If the control is turned anti-clockwise too far the highlights of the picture will appear "flat."
No picture visible or picture too bright.	Vision sensitivity—see remarks under section 2, Operating Instructions. Brightness control. Adjust this control in conjunction with the Contrast Control until sufficient contrast is obtained between light and dark objects.
Picture distorted or unsteady in the horizontal direction. Vertical black band appearing on screen. Pattern on screen composed of black and white horizontal dashes. Fig. 2.	Line Hold. This control should be adjusted and left in the centre of the range of control over which the picture remains steady in the horizontal direction.