ION TRAP CATHODE RAY TUBES

Mullard MW31-16 (12") and MW22-16 (9")

Pye Models LV30, LV30C, LV51, BV30, BV30C and BV51 T/V Receivers are now fitted with Mullard Ion Trap C.R. Tubes, which are correctly adjusted before leaving this factory.

When fitting or replacing Mullard C.R. Tubes of these types, the following procedure should be adopted. This adjustment is best performed with a stationery test pattern.

1. Push the ion-trap magnet over the base with the arrow (see note and diagram below) pointing towards the screen and over the line marked on the tube neck. This line will normally be found to be in line with pin No. 3. on the base. Push the magnet just beyond the base.

2. Replace the tube socket. Switch on, turn up the brightness control until the raster is just visible.

3. With the arrow over the line on the neck, move the magnet towards the screen until the focussed raster is at its brightest. Rotate the magnet a few degrees around the neck in order to obtain the position of maximum brilliance. Now increase the brightness control to give the correct level for the peak-whites and, if necessary, readjust the position of the magnet slightly to obtain maximum brilliance.

4. If the raster cannot be centred by adjusting the position of the focus field, the magnet may now be rotated slightly in order to assist in centring <u>provided that this does not cause any decrease in brilliance</u>.

5. Lock the magnet in position by tightening the thumb screw, making sure that the position of the magnet is not altered.

6. If a position of maximum brilliance is not obtained a new magnet should be tried.

<u>NOTE</u>. The arrow is marked so that when fitted on the tube with the arrow pointing towards the screen the North pole of the magnet is on the right hand side of the arrow when looking from base to screen, as in the following diagram:-

<u>WARNING</u>. The magnet must be handled carefully. It should not be placed in a strong magnetic field.

The C.R. Tube base connections for the MW31-16 and the MW22-16 are the same as the MW31-18 and the MW22-18 respectively.

7th December 1950.

Pye Limited, Cambridge.