

ALIGNMENT INSTRUCTIONS

Microcontroller configuration : Service mode

To switch the TV set into service mode please see instruction below.

- 1 - Select pr. number 91
- 2 - Adjust sharpness to minimum and exit all menu.
- 3 - Quickly press the key sequence : RED - GREEN - menu

To exit SERVICE menu press **menu** key or **Std By** key.

In Service Mode press "OK" to stop the microcontroller i.e. the I2C bus is free and the set can be controlled by external equipment. Press "OK" again to allow the microcontroller to control the set again

Microcontroller configuration :

Tuner Option

Option	Tuner maker
DW	DAEWOO / SAMSUNG
PH1	PHILIPS (Video processor AGC)
PH2	PHILIPS (tuner internal AGC)

System Option

Option	System
TF	PAL – B/G
TK	PAL – SECAM B/G-D/K
TU	PAL I/I
TA	PAL – SECAM B/G-L/L'

TV set Alignment

1 - G2 alignment

- Set TV in NORMAL I mode
- TV in AV mode without video signal ? Black screen.
- TV preset with WP Red, WP Green and WP Blue equal to 32.
- TV preset with Black R, Black G equal to 8.
- Adjust screen volume (on FBT) such that the highest cathode cut-off voltage measured on CRT board, is Vcut-off \pm 5V.

Screen size	Vcut-off
14"	115 V
20" & 21"	125 V

2 - White balance

- Select a dark picture and adjust Black G and Black R to the desired colour temperature.
- Select a bright picture and adjust WP Red, WP Green, WP Blue to the desired colour temperature.

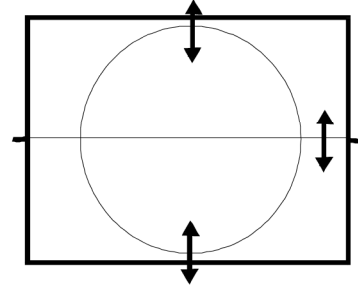
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3 - Focus

- Adjust the Focus volume (on FBT) to have the best resolution on screen.

4 - Vertical geometry

- Adjust the Vertical Amplitude, Shift, S-Correction and Slope to compensate for vertical distortion



5 - Horizontal picture centering

- Adjust H Shift to have the picture in the center of the screen.

7 - AGC

- Adjust the antenna signal level to $70 \text{ dB}\mu\text{V} \pm 2$ for Daewoo tuner ($63 \text{ dB}\mu\text{V} \pm 1$ for Philips tuner).
- Set RF AGC to 0.
- Increase RF AGC level and stop when the level on pin 6 of I501 goes below 2.5 Vdc