ALIGNMENT PROCEDURE AND OPTION SETTING

Entering SERVICE mode

Service mode is entered by selecting the "mute" remote key and local "down" simultaneously with the sharpness DAC set to Minimum and programme position 99 selected.

Service mode 2 is selected by pressing the Recall remote key while in service mode 1.

Service mode navigation

- Up /Down remote keys
- -/+ remote keys
- TV/AV

:cycle through the service items available. :Decrement/Increment the values within range.

- 0 - 7 digit keys

:Store the current data. :Toggle bits 0-7 in option byte (service mode 2).

Order Range Item 1 Cut off (VG2) LED ON , LED OFF

2	Vertical slope	0-63
3	Vertical Shift	0-63
4	Vertical amplitude	0-63
5	Horizontal shift	0-63
6	Red Cut	0-63
7	Green Cut	0-63
8	Red Drive	0-63
9	Green Drive	0-63
10	Blue Drive	0-63
11	AGC	0-63
12	Sub-Colour	0-63
13	Sub-Brightness	0-63

Sub-Colour: Set sub-colour to 16.

Sub-Brightness: Set sub-colour to 33.

G2 alignment: Before entering into service mode, recall the nominal picture setting :remote key "N". From this setting, increase brightness by 11 steps and reduce sharpness to minimum. Tune a colour bar signal on Prg 99 and enter into SVC mode. In SVC mode , select "G2" item and press - or + remote key to control software disable vertical deflection. The user must then adjust G2 voltage on FBT, to find the point where LED is ON. Press - or + remote key to return to normal SVC mode.

White balance: - Select a dark picture and adjust Red Cut and Green Cut to the desired colour temperature. - Select a bright picture, set Blue Drive to 32 and adjust Red Drive, and Green Drive to the desired colour temperature.

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
ТА	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 ± 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.