How to use the OPTION BYTEs:

- Enter the Service Menu,
- Move the selection bar on the item 'OPTIONS...' using the "△P" or "PV" keys,
- Select the item 'OPTIONS...' using the "◁" or "▷" keys,
- Select the desired option,
- Use the digit keys to do the adjustments. The digit keys 0 through 7 are used to change the bits 0 through 7, respectively.

NOTE: *TheService Menu below shows the meanings of each bit.*

SERVICE MENU

THE SERVICE MENU IS ALWAYS IN ENGLISH...

SERVICE
ADJUST...
OPTIONS...

ADJUST

		MIN	MAX
AGC	Automatic Gain Control	0	63
VA1	Vertical Amplitude 4:3 (50 Hz)	-32	31
VA2	Vertical Amplitude 16:9 (50 Hz)	-32	31
VA3	Vertical Amplitude 4:3 (60 Hz)	-32	31
VA4	Vertical Amplitude 16:9 (60 Hz)	-32	31
VSH	Vertical Shift(position)	-4	3
VL	Vertical Linearity	0	63
HSH	Horizontal Shift	-32	31
WR	White Point Adjust Red	-32	31
WG	White Point Adjust Green	-32	31
WB	White Point Adjust Blue	-32	31
CR	Cuttoff-R	-32	31
CG	Cuttoff-G	-32	31
OSH	OSD Horizontal Position	1	127

In this menu only one item is displayed

OPTION BYTE 1

7	6	5	4	3	2	1	0
b7	b6	b5	b4	b3	b2	b1	b0

b2 b1 b0 → Receiving System
b3 → Horizontal position of OSD
b4 → HUE enable/disable

b2	b1	b0	
0	0	0	not to be used
0	0	1	Multi LL (BG-I-L-L')
0	1	0	BG
0	1	1	BG-DK
1	0	0	I
1	0	1	BG-L-L'
1	1	0	BG-DK-I
1	1	1	Multi MN (BG-DK-I-N-PAL M-NTSC M)

b7	
1	HUE enable
0	HUE disable

OPTION BYTE 2

7	6	5	4	3	2	1	0
b7	X	X	X	b3	b2	b1	b0

b0	
1	3-Band Tuning (UHF-VHF1-VHF3)
0	1-Band Tuning (UHF)

b1	
1	Turkish available
0	Turkish not available

b2	
1	Blank Time 600ms (in TVs receiving SECAM)
0	Blank Time 410ms (in TVs not receiving SECAM)

b3	
1	RGB enable
0	RGB disable

b7	
1	Symbol Menu
0	Text Menu

NOTE: The values of the Option Bytes are written in binary form. The meaning of each bit is explained, above. The digits 0 through 7 are used to change the bit values. These digits are changing the related bits to 0 or 1. Let's change the value of the RGB bit (b3) in Option2, as an example. Firstly, select Option2, and press the digit '3'. The bit value will change from 0 to 1 or from 1 to 0 (toggle). In this way the values of the bits can be set to the desired values, easily.

CHARACTER SETS FOR TELETEXT

SET 1
English
German
Swedish
Italien
French
Spanish/Portuguese
Czechoslovak

SET 2
Polish
German
Swedish
Italien
French
Serbocroat
Czechoslovak
Rumanian

SET 3
English
German
Swedish
Italien
French
Spanish/Portuguese
Turkish

OPTION BYTE 3 (FOR TELETEXT)

7	6	5	4	3	2	1	0
b7	b6	b5	b4	X	X	b1	b0

Character Set

b1	b0	
0	0	Set 1
0	1	Set 2
1	0	Set 3
1	1	not to be used

Values of TTX Brightness/Contrast (Bits of OPTION BYTE 3)

b7	b6	b5	b4	Value
0	0	0	0	0
0	0	0	1	2
0	0	1	0	4
0	0	1	1	6
0	1	0	0	8
0	1	0	1	10
0	1	1	0	12
0	1	1	1	14
1	0	0	0	16
1	0	0	1	18
1	0	1	0	20
1	0	1	1	22
1	1	0	0	24
1	1	0	1	26
1	1	1	0	28
1	1	1	1	30

Values of TTX Brightness/Contrast and OSD Horizontal Position:
To control the Brightness of the TTX, four of the bits of 'Option Byte 3' is used. In the table just beside the values of TTX Brightness/Contrast are given according to the bit values.
To control the horizontal position of the OSD (teletext and menu display positions), the 14th parameter of ADJUST menu is used. The range is from 1 to 127. (As the value of this parameter increases the OSD moves from left to right.)
These adjustments have to be done while doing the Service Adjustments.