

Warning! Service and repair work to be performed only in accordance with existing safety regulations.

X-ray regulations: The picture tube type and the maximum permissible high-voltage ensure that the X-ray intensity within the set remains far below the permissible value.

The high-voltage must not exceed 28 kV. The high voltage is within the permissible limits when the operating voltage of the horizontal deflection stage equals 150 V (110°) and 130 V (90°) at minimum beam current. By following the service adjustments, check and adjust this voltage to the nominal value with RO80.

Service adjustments

Note! Before other adjustments **U1** voltage must be adjusted.

Service mode

Select the service mode by pressing the **i**, **M** and **PROG** buttons on the remote control unit.

Use the cursor button **▲** or **▼** to select required adjustment and adjust it by using the cursor buttons **◀** and **▶**.

Store into memory by pressing the red **M** button.

Return to normal TV mode by pressing the **TV** button.

Service adjustment which are made in service mode

Adjustment	Display	Note!
Vert. centre position	V.MID-POS.	Adjust centre of the test picture to a centred pos. (bottom half is black).
Vert. top position	V.TOP-POS.	Adjust top edge (bottom half is black).
Vert. amplitude	V.AMPL.	Adjust bottom edge.
Hor. position	H.SHIFT	Adjust centre of the test picture to a centred position.
Hor. amplitude	H.AMPL.	
Hor. cushion	P.AMPL.	
Hor. trapeze	P.TILT	
Corner correction	P.CORN.	as from SPL21
Vert. linearität	S.COR.	as from SPL21
Green	GREEN	See adj. "G2- and colour temperature"
Blue	BLUE	See adj. "G2- and colour temperature"
Red	RED	See adj. "G2- and colour temperature"
	OSD SHIFT	
	TDA 8366:	N1 or N2
	LNB VOLT	SAT sets = see operating instruction
	LOUDNESS:	(on)
	C4 BIT CHECK:	(on)
	NICAM:	(on/off)
	CARRIER-MUTE:	(off)
	VT CHAR:	West / East1 West Turkey / East2
AGC	AGC	See adjustment "AGC".

G2- and colour temperature

- Set the TV set to the service mode (see "Service mode").
- Adjust the green, blue and red OSD values to 60 with the cursor button **◀** or **▶**.
- Set the G2 trimmer (RK60) to its centre position.
- Adjust the brightness to normal level (black bar of the grey scale is black).
- By using an oscilloscope (Probe 100:1) determine the highest black value at the picture-tube cathodes (R, G, B).
- Adjust with G2 (RK60) the highest black value to 160 V.
- Use a colour neutral picture and adjust the light areas in green, blue and red drives to white (lower the OSD value) with the cursor button **◀** or **▶**. At least one of the level controls should be remain at 60.
- Store the adjustments in the memory by pressing the **M** button.
- Return to normal TV mode by pressing the **TV** button.

AGC

- Feed in a RF signal (70dBμV) tuned on a mid range UHF channel and without sound carrier) via the aerial input.
- Set the TV set to the service mode (see "Service mode").
- Select the AGC-adjustment with the cursor button **▲** or **▼**.
- Connect an oscilloscope (bandwidth >50 MHz) to the IF output on the tuner (TL01 or TL02).
- Press the yellow button on the remote control unit (OSD = OKAY).
- Adjust the signal to 450 mVpp ±50 mV. (with reference to the signals synchronizing peaks) with the cursor button **◀** or **▶**.
- Store the value in the memory by pressing the red **M** button.

Other service adjustments

U1 voltage

- Set the contrast and brightness to minimum.
- Connect an universal voltmeter to the + pole on the capacitor CO42.
- Adjust the U1 voltage to 150 V ± 0.5 V (110°) or 130 V (90°) with the trimmer RO80.

Focus

Adjust the focus to optimum with the focus trimmer (RK60).

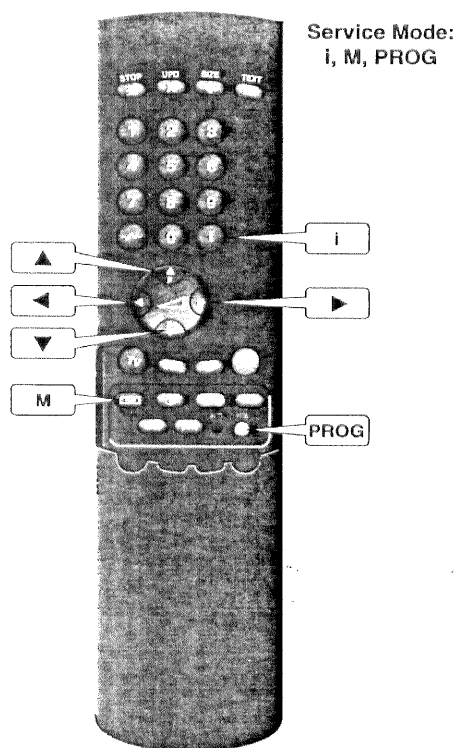
Picture reference calibration

- Press the **PROG** button.
- Activate TV-PROGR option by pressing the cursor button **◀** or **▶**.
- Enter one of the mid range UHF channels by using the number buttons, e.g. ch. 38 (607.25 MHz).
- Select the frequency tuning menu by pressing the green button.
- Select AFC option and change it to ON by using the cursor buttons **◀** or **▶**.
- Adjust the frequency to 607.25 MHz with ZL22 (even with other channels, always set to xxx.25 MHz).
- Return to normal TV mode by pressing the **TV** button.

Audio IF calibration

- Feed in a test picture.
- Connect an oscilloscope to pin 12 of TDA 2545.
- Adjust for minimum picture content with the ZL02.

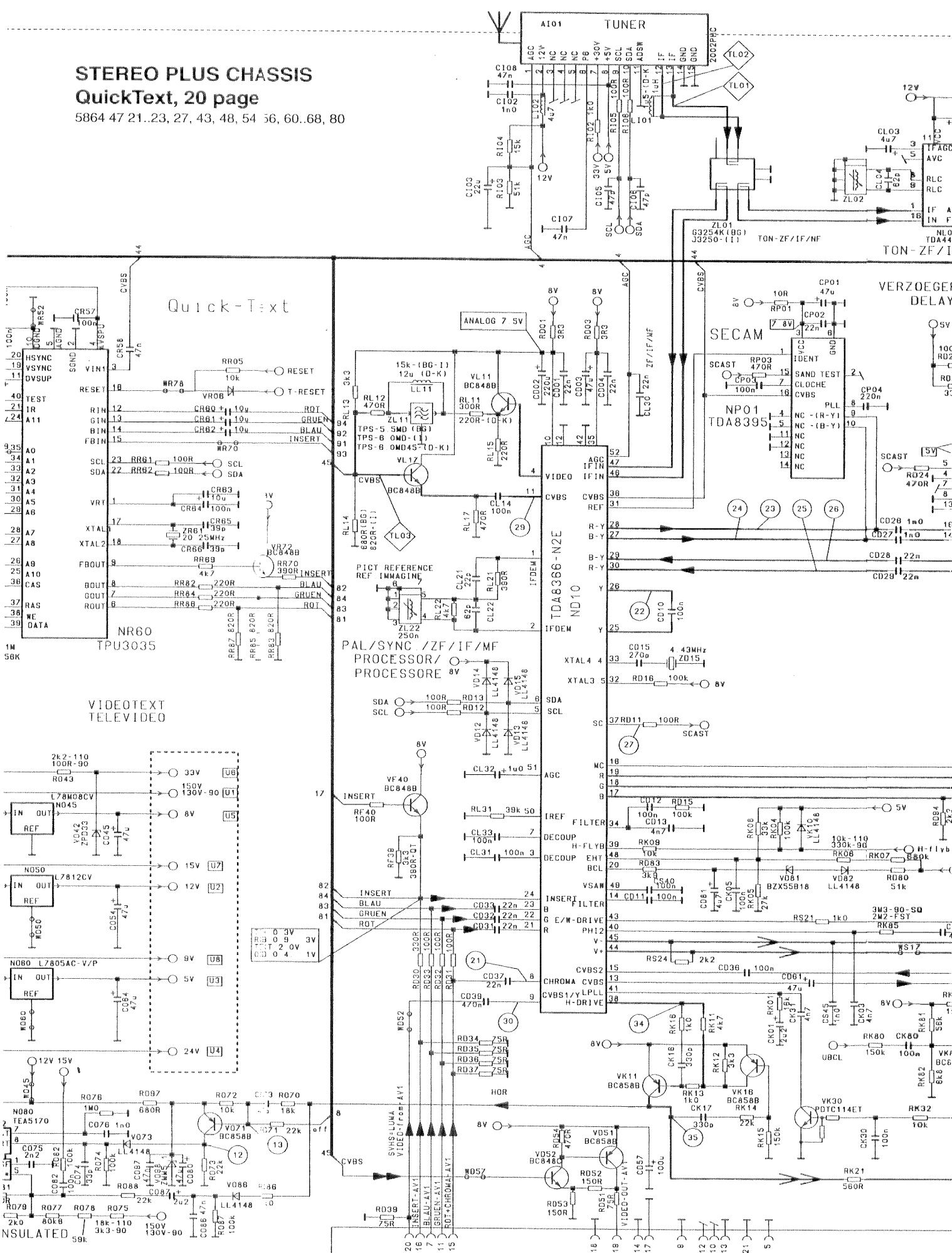
Please note: this set features an option for using our "OSCAR 5 Commander" to copy customer-specific channel data from one set to another.



STEREO PLUS CHASSIS

QuickText, 20 page

5864 47 21..23, 27, 43, 48, 54 56, 60..68, 80

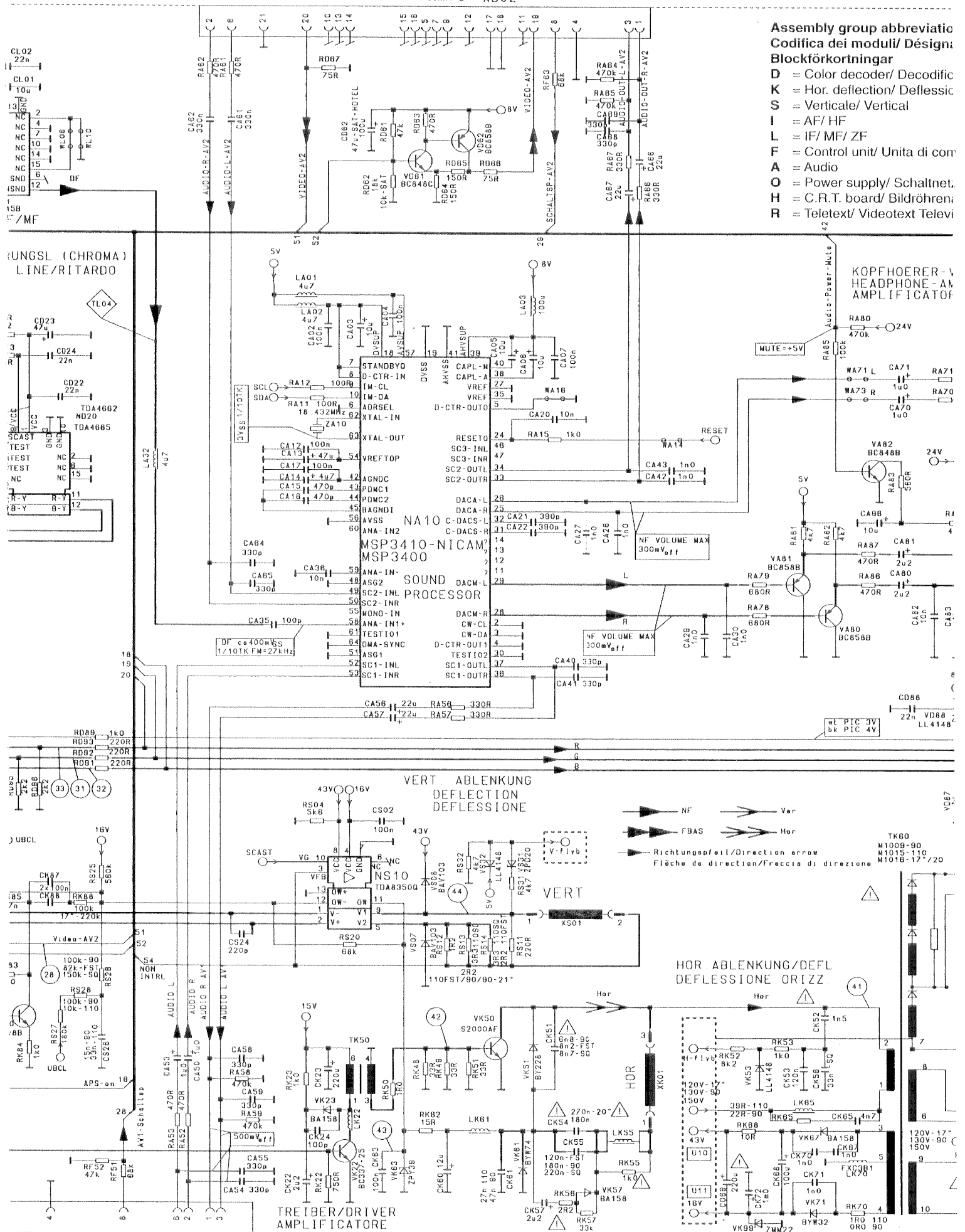


SCART 1

Measurements referenced to switch-mode power supply minus potential \perp / Messungen auf Schaltteil-Minuspotential \perp bezogen / Toutes les mesures se rapportant au potentiel négatif du bloc-secteur de commutation \perp / Riferire tutte le misure al potenziale negativo della sezione di rete \perp Matta mot nabelens minuspotential \perp

Assembly group abbreviatio Codifica dei moduli/ Désign: Blockförkortningar

- D** = Color decoder/ Decodific
K = Hor. deflection/ Deflessic
S = Verticale/ Vertical
I = AF/ HF
L = IF/ MF/ ZF
F = Control unit/ Unità di com
A = Audio
O = Power supply/ Schaltnet.
H = C.R.T. board/ Bildröhren:
R = Teletext/ Videotext Televi

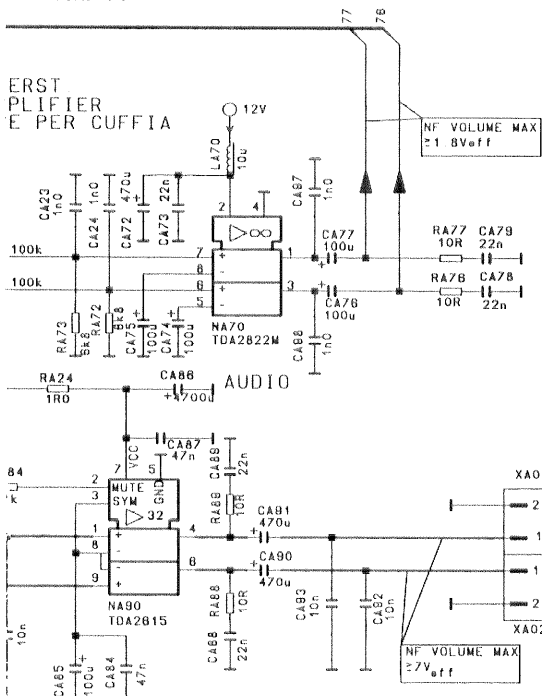


ns/ Baugruppenkurzbezeichnungen
 ions abrégées des sous-ensembles

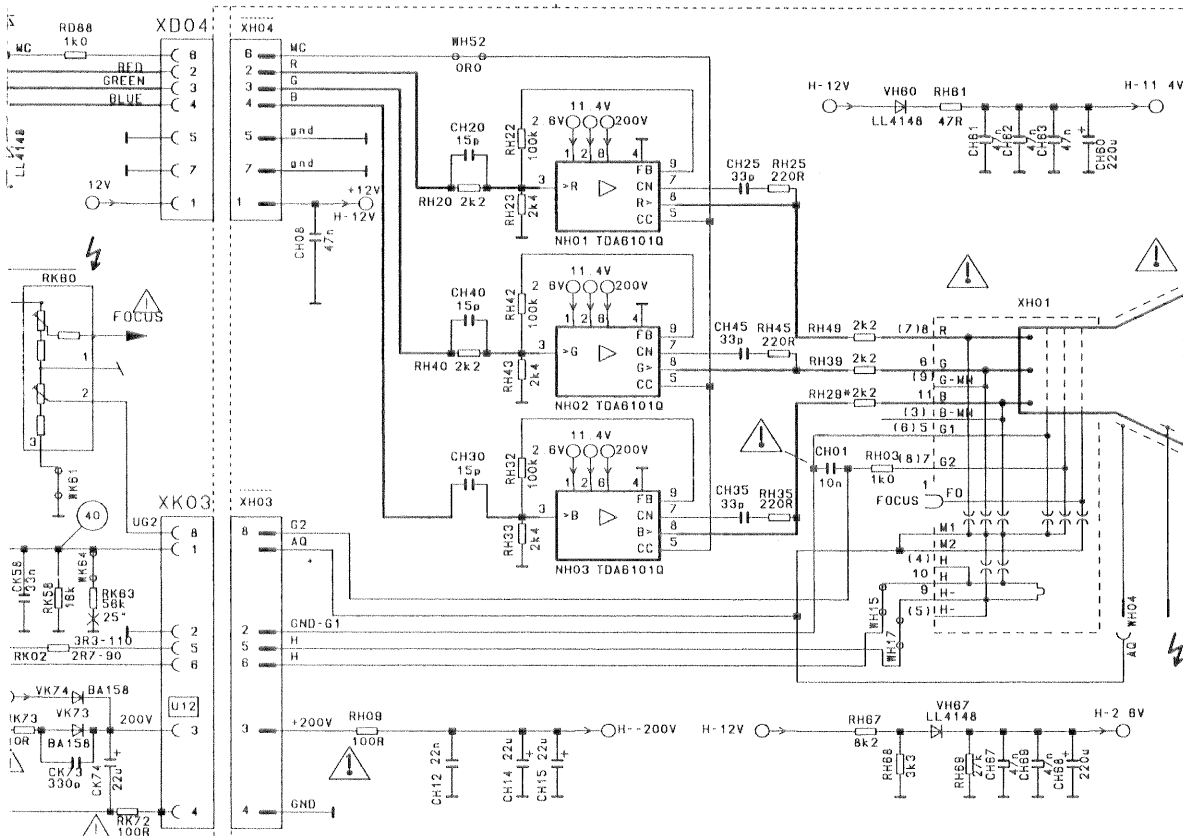
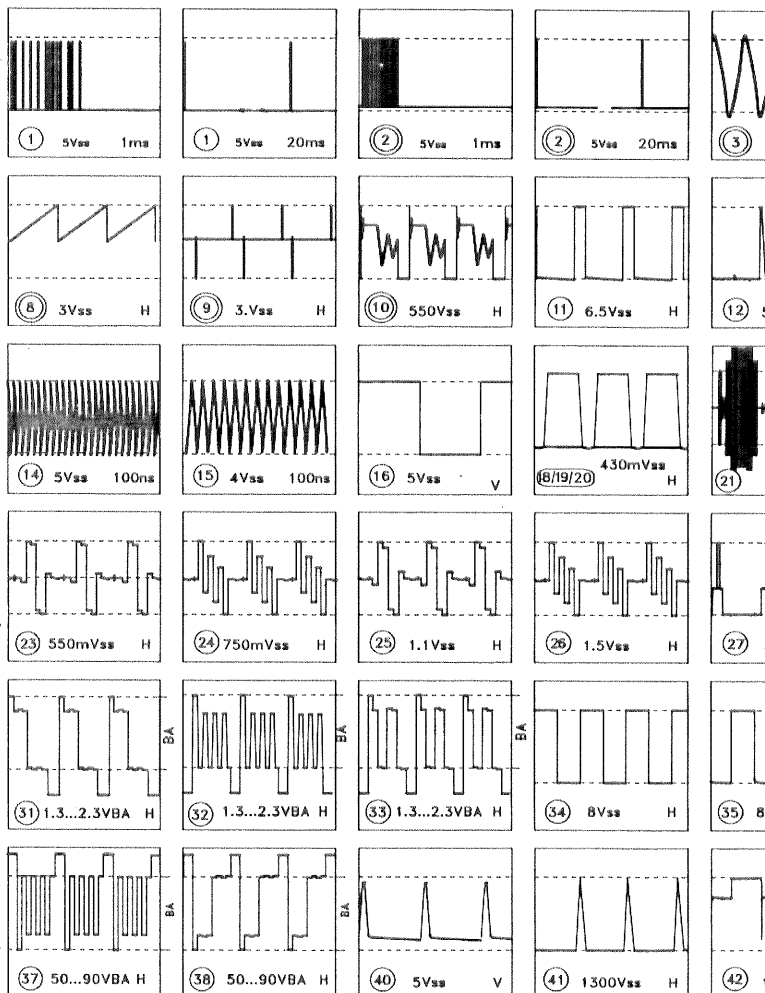
itore colore/ Färgdekoder
 re orizzontale/ Horizontal avlänkning

ando/ Kontrollenhet

teit/ Circuito aliment. rete/ Nätdel
 inschluß/ Colleg. cinescopio/ Bildrörsplattan
 deo/ Text- TV



Picture tube connecting board / Bildröhrenanschlußplatte
 Connexion tube image / Collegamento cinescopio
 5858 20 74/76



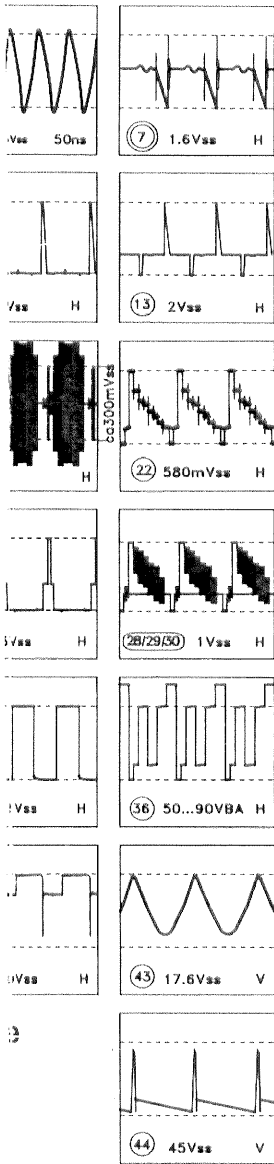
N.B.! The oscilloscope fra the module being measur
 The **decoder waveforms**
 conditions:
 Standard PAL, contrast at
 and colour saturation at no

Achtung! Die Oszilloskop
 zu messenden Baugruppe
 Alle **Decoderszillogram**
 Bedingungen aufgenommen
 max. Kontrast, ca. Nennh

Attention! La masse de l'
 raccordée à proximité du
 Tous les **Decoderszillogram**
 sont pris sous les conditio
 de barre PAL, contrast au
 intensité couleur aux vale

Attenzione! La massa del
 collegata vicino al compon
 Tutti gli **oscillogrammi** de
 seguenti condizioni: genera
 contrasto, approssimativar
 saturazione normali.

Obs! Oskilloskopets mast
 modulen som man gör mä
 mätta under följande förh
 kontrasten i maximum och
 normalläge.



Variable components for picture tube. Bildröhrenabhängige Bauteile. Componenti che differiscono a seconda del tipo di cinescopio.							
*POS	A59/66 ECY13X01	A59/66 EAS13X01	A51 ECQ10X01	A51 EFS43X191	A51 EBV13X01	A41 EAM40X01	A48 EEV13X01
U1	150V	150V	130V	130V	130V	120V	120V
CK51	8N2	8N7	6N8	6N2	5N6	4N7	6N2
CK52	1N5	1N5	1N5	1N5	1N5	2N2	2N2
CK55	300N	400N	360N	360N	360N	360N	220N+270N
CK61	27N	27N	47N	47N	27N	18N	18N
CK65	4N7	4N7	4N7	4N7	4N7	15N	15N
LK55	227U	227U	227U	227U	227U	227U	227U
LK61	490UH	490UH	360UH	360UH	490UH	610UH	610UH
LK65	82U	82U	75U	75U	75U	25U	25U
RK02	1R2	3R3	2R7	1R2	1R2	1R2	R39
RK50	1R0	1R0	1R0	1R0	1R0	1R5	1R5
RK65	39R	39R	22R	22R	22R	62R	62R
TK60	M1015	M1015	M1009	M1009	M1009	M1016	M1016
RK70	1R0	1R0	1R0	1R0	0R0	0R0	0R0
RS11	220R	300R	220R	220R	220R	220R	220R
RS13	4R7	3R0	2R0	3R3	10R	-	-
RS14	4R7	3R0	-	-	-	-	-
CS26	15N	33N	15N	15N	15N	15N	15N
RK06	10K	10K	330K	330K	330K	330K	330K
RK80	470K	150K	150K	150K	150K	150K	150K
RK85	2M2	3M3	3M3	3M3	3M3	3M3	3M3
RK88	100K	220K	100K	100K	100K	220K	100K
RS20	68K	100K	68K	68K	68K	68K	68K
RS25	-	560K	560K	560K	560K	560K	560K
RS26	330K	150K	100K	100K	100K	100K	100K
RS28	100K	10K	10K	100K	100K	100K	100K
RK58	16K	16K	16K	16K	16K	20K	16K
RK63	56K	56K	-	-	-	-	-
C.T.R. board							
RH20	2k2	2k2	2k2	2k2	2k2	3k0	2k2
RH30	2k2	2k2	2k2	2k2	2k2	3k0	2k2
RH40	2k2	2k2	2k2	2k2	2k2	3k0	2k2

GB:
me must be connected near
ed.
are taken under following

maximum and brightness
ominal value.

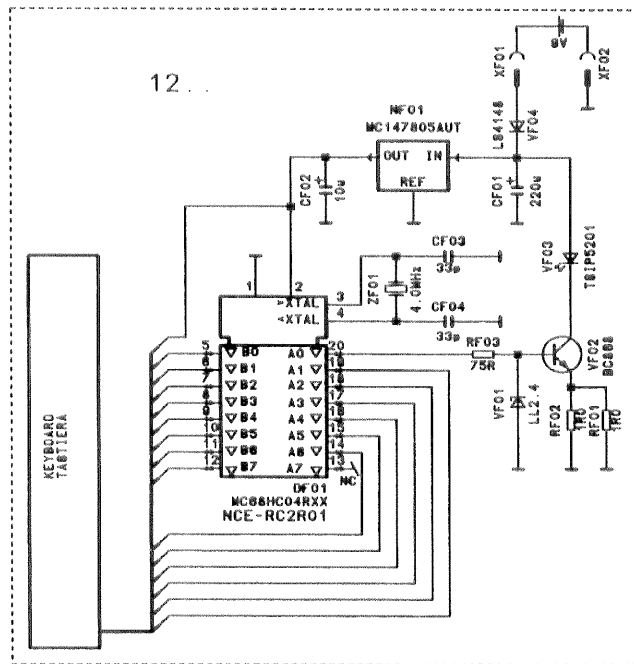
D):
masse muß in der Nähe der
angeschlossen werden.
me sind unter folgenden
en: Normfarbbalken PAL,
elligkeit u. nom. Sättigung.

F):
oscilloscope doit être
module devant être mesuré.
mesurés sur le décodeur
is suivantes: Norme de mire
maximum, luminosité et
ers nominales.

I):
l'oscilloscopio deve essere
ente da misurare.
oder sono stati fatti nelle
gore di barre PAL, massimo
nente luminosità e

S):
rjordas i närheten av
iningar pa. Dekoderpulserär
llande: Standard PAL signal,
ljus och färgmättnad i

ST 1 5652 18 11



ST 2 5652 18 30

