

General Information

1995

Covers Models:
Nokia 3755F / 5155F

Chassis:
Stereo (Monoplus)
Multinorm (5864/5-)

CRT's:
A34EFU13X01
A48EEV13X01
Remote Control:
56521830 (ST2)
Main Power Buttons:
84680370 (14")
84680271 (20")

Matrix

Item	See Model
Safety Notes	Nokia FS Chassis
Service Adjustments	Nokia Stereo (Monoplus) 90° Chassis
Coincidence Diagram	Nokia Stereo (Monoplus) 90 x 110 Chassis
Multinorm IF Diagram	Nokia Stereo (Monoplus) 90 x 110 Chassis
NICAM Diagram	Nokia Stereo (Monoplus) 90 x 110 Chassis
Remote Control Diagram	Nokia Stereo (Monoplus) 90° Chassis

Specifications

Mains Power:	176V - 246V
Power Consumption:	ca. 60W
Stand-by:	5.5W
Picture Tube:	14": 37cm, 20": 51cm
Programme Memory Loc:	99
AV Memory Locations:	1
Sound Output:	2 x 3W RMS (16W)
Chassis:	Mains isolated, APS
Connections:	
On the front panel:	≥16W 3.5mm
On the rear panel:	
SCART 1:	Audio out: 0.5V/1kW Audio in: 0.5V/10kW Video out: 1V/75W Video in: 1V/75W RGB: 0.7V/75W
Aerial:	75W

Recommended Safety Parts

Item	Part No.	Description
9	43641401	Tube 14" A34EFU 13 X 01
9	78640180	Screw for Tube
9	43642001	Tube 20" A48EEV 13 X 01
9	78640230	Screw for Tube
12	45880722	Degaussing Coil 14"
12	45880812	Degaussing Coil 20"
14	41210003	Mains Switch
18	41312510	Mains Cable

Service Adjustments

Safety Regulations

X-Ray Radiation

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 28kV. The high voltage is within the permissible limits when the operating voltage of the horizontal deflection stage equals: 111.5V ± 0.5V (14"), 109.5V ± 0.5V (20"), 134.5V ± 0.5V (21")

at minimum beam current. During servicing, check and adjust this U1 voltage to the nominal value.

Service Adjustments

Note: Before other adjustments U1 voltage must be adjusted.

Service adjustment which are made in service mode		
Adjustment	OSD	Note!
Service menu 1		
U1 operating voltage	U1	See adjustment "U1 voltage"
AGC	AGC	See adjustment "AGC"
Hor. position	H-SHIFT	Adjust centre of the test picture to a centred position
Service menu 2		
Teletext.character sets	TXT:	WEST/ EAST/ WEST TURKEY (YES/NO)
SCART	SCART	
Teletext.hor position	TXT H-SHIFT	Adjust teletext picture to centre on the screen.
TV standard	APS	Set to appropriate TV standard
Service menu 3		
	NICAM	(ON/OFF)
	LOUDNESS	(OFF= linear frequency response)
	C4. CHECK	(ON)
	CAR. MUTE	(ON/OFF)

Service Mode

Select the service mode 1 by pressing the "I", M and PROG buttons on the remote control unit. You can use the yellow button to call up Service Menu 2 or 3 (or Service Menu 1 again).

Use the cursor buttons \bar{Y} 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.

U1 Voltage Adjustment

- 1: Set the contrast and brightness to minimum.
- 2: Connect test point XF01 (chassis board) to ground.

- 3: Go to Service Menu 1 (see Service Mode).
- 4: Use cursor button \bar{Y} or / to set U1.
- 5: Adjust the U1 voltage to: 111.5V ± 0.5V (14"), 110V ± 0.5V (20"), 135V ± 0.5V (21") with the cursor button > and < at test point XO03.
- 6: Use the memory (M) button to store the value in memory.
- 7: Sever jumper XF01/ground again.
- 8: Return to normal TV mode by pressing the TV button.

AGC

- 1: Connect test point XF01 to ground.
- 2: Feed in RF signal without sound carrier with 70 dBmV on a medium UHF channel via the aerial input.
- 3: Go to Service Menu 1 (see Service Mode).
- 4: Use cursor button \bar{Y} or / to set the AGC.
- 5: Connect oscilloscope (bandwidth >50 MHz) to the tuner's IF output, test point XL03 or XL04 and to ground XL02.
- 6: Use cursor button > and < to adjust to

- 400mVp-p ± 50mV with reference to the signal's synchronising peaks.
- 7: Use the M button to store the value in memory.
- 8: Sever jumper again.
- 9: Return to normal TV mode by pressing the TV button.

Horizontal Amplitude

Adjust horizontal amplitude to coil LK 12 (14" minineck picture tube, 21").

Vertical Amplitude

Adjust vertical amplitude to resistor RS20.

Vertical Position

Adjust vertical position by severing resistor RS24 and /or RS14.

Focus

Use focus adjuster TK02 (at horizontal transformer) to set the focus to optimum sharpness.

G2- and Colour Temperature

- 1: RH24, RH34 and RH44 (picture tube connection board) to anti-clockwise stop.
- 2: Switch the TV set to AV, or take the black test picture.
- 3: Connect oscilloscope at the green input of the picture tube connection board (XH02/2).
- 4: Set to 1.7V DC black value with brightness adjuster.
- 5: Short circuit test points XS03/XS04 (vertical deflection).
- 6: Turn the UG2 adjuster at the hor. transformer until a colour just appears as a bar.
- 7: Turn RH24, RH34 or RH44 resistor until the bar just appears in white. At least one of the adjusters should remain at its anti-clockwise stop.
- 3: Sever XS03/04.

AFC

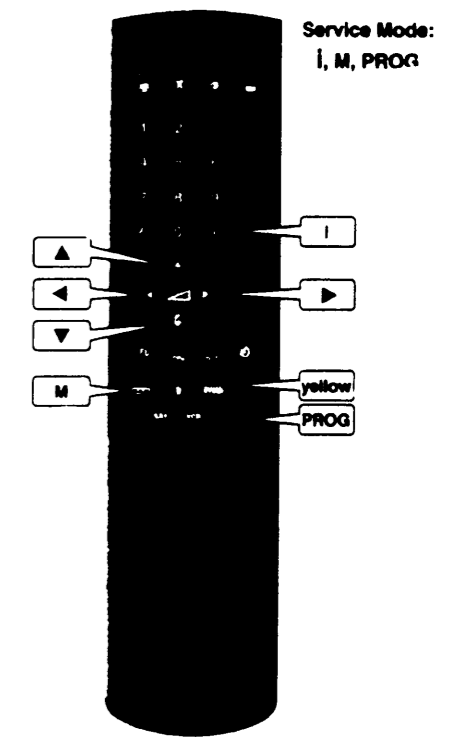
- 1: Feed in symmetr. IF signal by means of 4:1 transmitter at test points XL 03/04 (BG standard approx. 0.8Vpp).
- 2: At test point XL01 (XL02 ground) set to 3.5V DC ± 0.5V with coil ZL01 (AFC reference).
- 3: Select a program memory location in Band 1 and norm L. At test points XL03/04 (33.9 MHz approx. 0.8Vpp), adjust for a symmetrical IF signal by means of 4:1 transmitter to 3.5V DC ± 0.5V at test point XL01 with CL05.

AFC Check

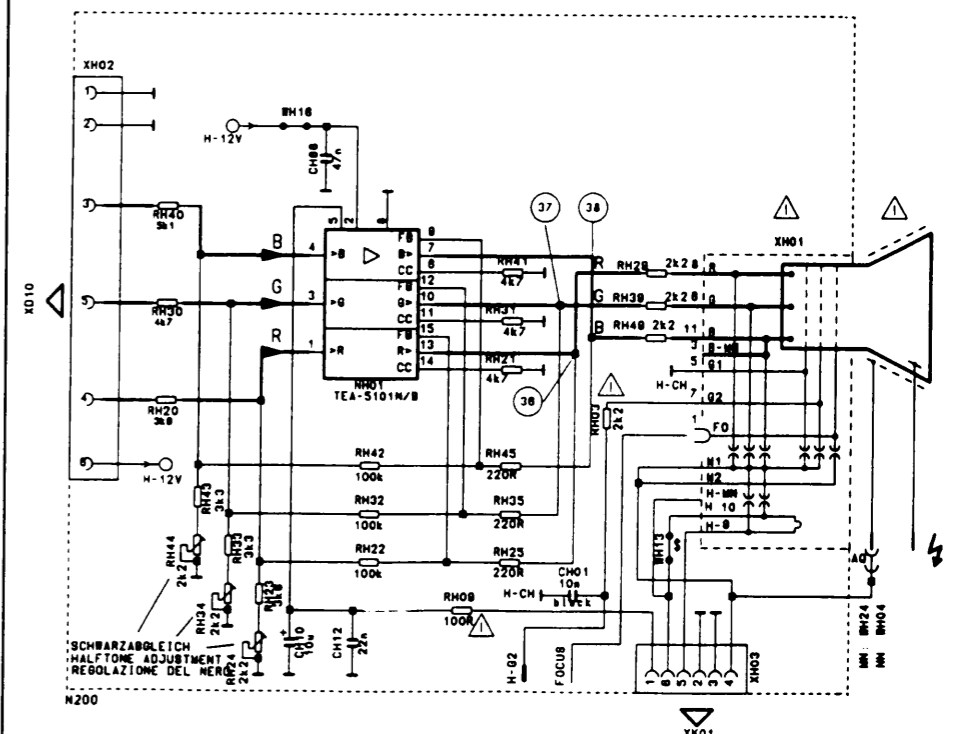
Re-tune the IF signal to approx. 39 MHz; when you do this the voltage must drop to approx. 1V.

Audio IF Calibration (Multinorm Module)

- 1: Go to Service Menu 2 (see Service Mode).
- 2: Use cursor button \bar{Y} or / to set to APS.
- 3: Use cursor button > and < to adjust to standard BG.
- 4: Connect signal generator 38.9 MHz (approx. 350 mV) to test points TP2/TP4.
- 5: Connect voltmeter to test point TP16.
- 6: Use coil ZL58 to calibrate the AFC DC voltage to 2.5V ± 0.5V.
- 7: AFC check. If the IF is increased, the AFC voltage decreases.
- 8: Return to normal TV mode by pressing the TV button.



CRT Diagram

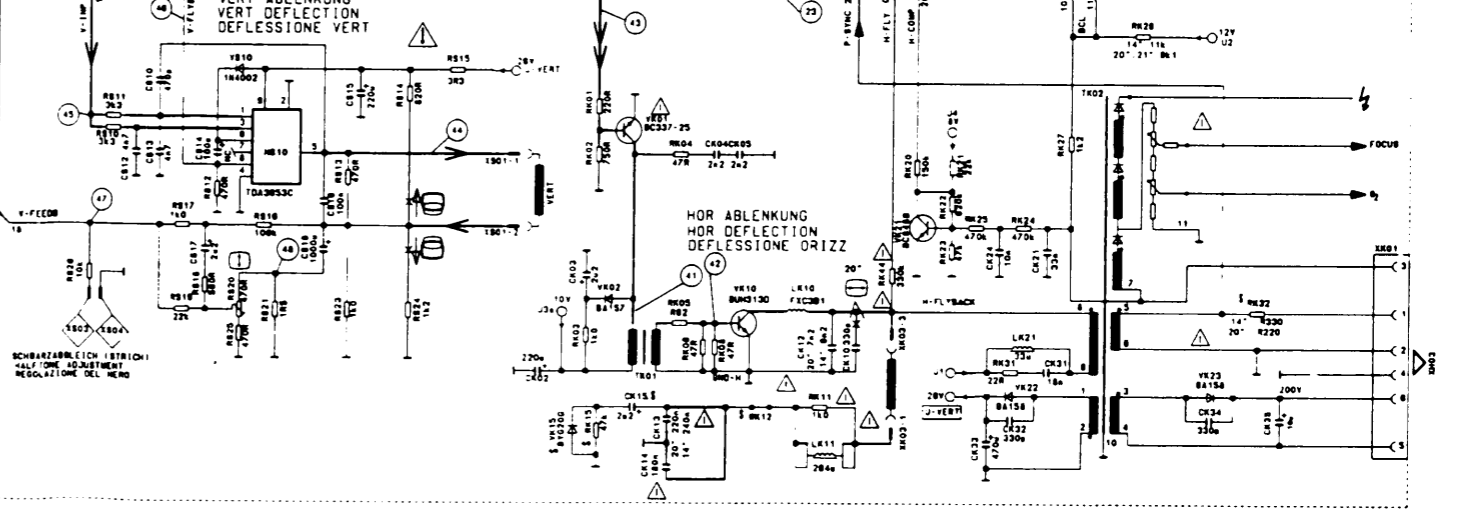
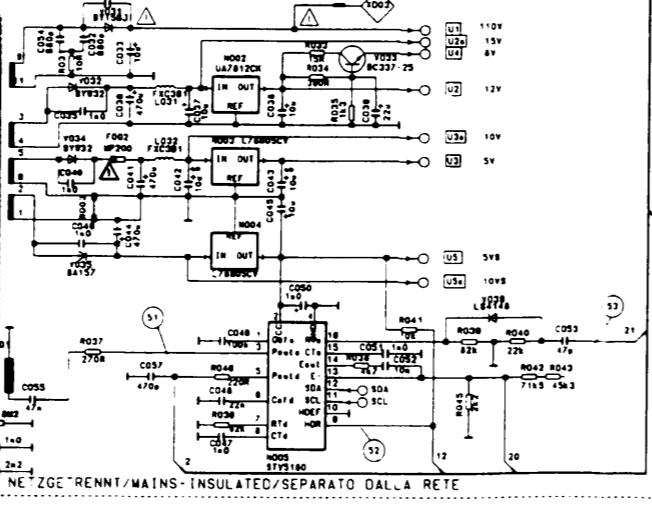
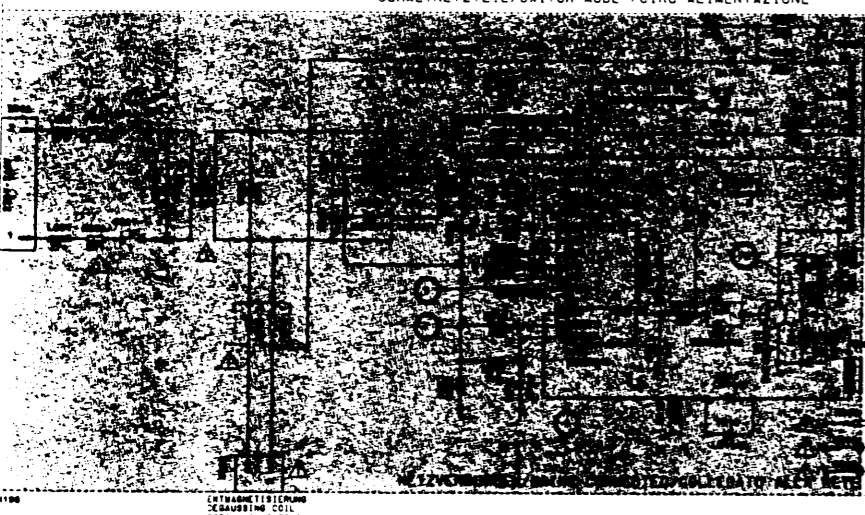
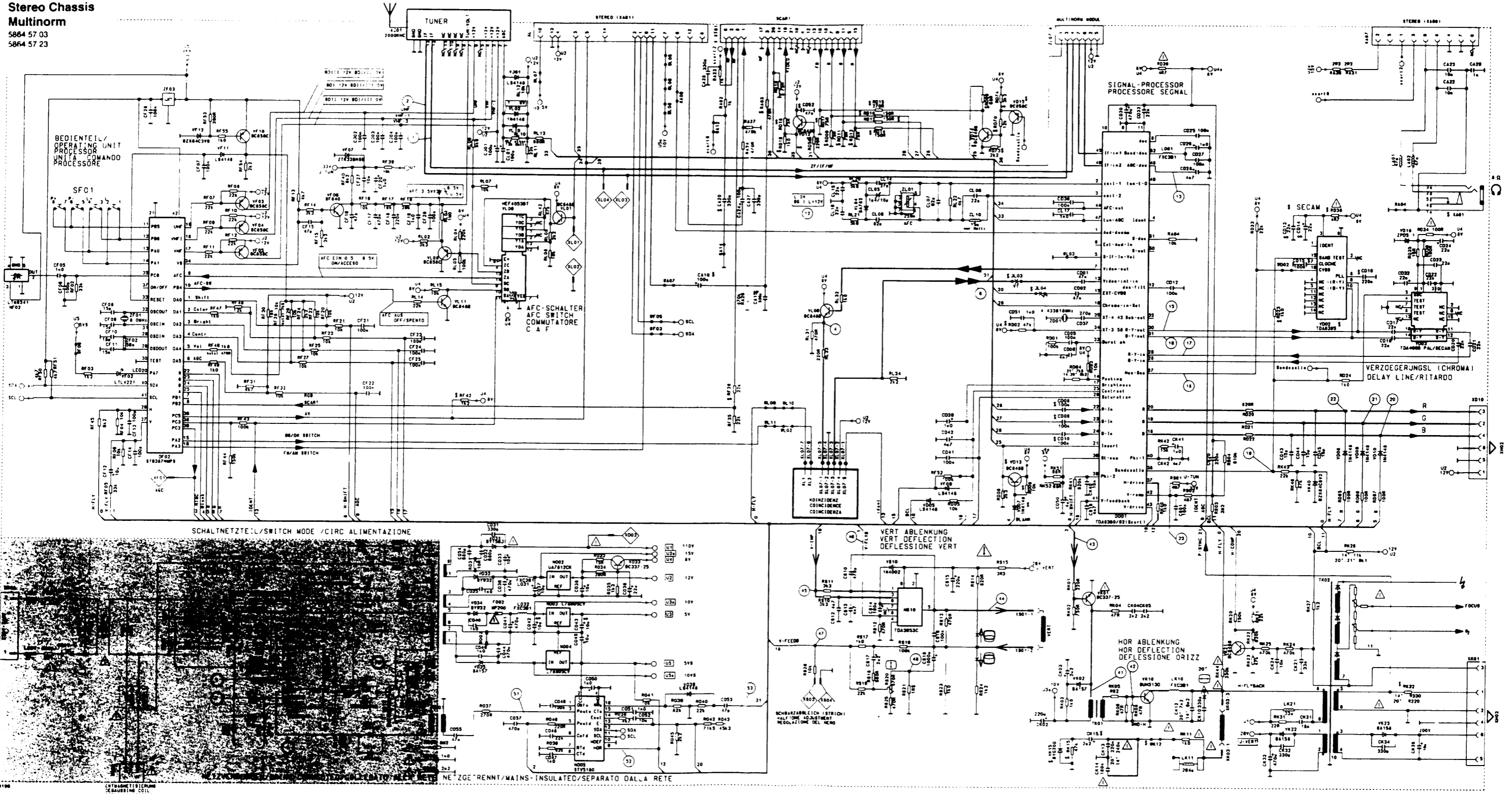


Recommended Safety Parts

Item	Part No.	Description
CH 12	33150965	Capacitor 22nF 400V
CK 13	33240820	Capacitor 0.2mF 250V
CK 32, CK 34	32670853	Capacitor 330pF 1kV
CO 01	33450004	Capacitor 0.33mF 275V
CO 04, CO 05	32670976	Capacitor 1.5nF 2kV
CO 13, CO 31	32670853	Capacitor 330pF 1kV
CO 18	32610931	Capacitor 1nF 4kV
CO 19	32610932	Capacitor 2.2nF 4kV
CO 32, CO 54	32670977	Capacitor 680pF 2kV
FO 01	43751251	Fuse 2.5A Delay
RD 34	31514516	100 W 0.25W
RD 38, RD 39	31514517	4.7 W 0.25W
RH 03	31596032	2.2k W
RH 09	31514516	100 W 0.25W
RH 39, RH 49	31596032	2.2k W
RK 11	31512608	1k W 0.25W
RK 32	31514505	0.33 W 0.25W
RL 29	31512650	10k W 0.25W
RO 16	31560970	8.2M W 0.54W
RO 20	31514517	4.7 W 0.25W
RO 33	31510863	15 W 0.35W
RO 36, RO39	31490032	82k W 0.1W
TK 02	45360010	Hor. Line Transformer OR VE6

Main Diagram

Stereo Chassis Multinorm 5864 57 03 5864 57 23



ATTENZIONE: IL CAVO DI TERRA DELLA RETE DEVE ESSERE ISOLATO DALLA RETE

NETZGRENNT/MAINS-INSULATED/SEPARATO DALLA RETE