

Modelo TVCR
Delta 2000 Real Flat AA/AB

PHILIPS
21 PV 908/07/39
21 PV 918/07/39

AVVERTENZA
IL TELAIO «DELTA 2000 REAL FLAT» COSTITUISCE
UNA EVOLUZIONE DEL TELAIO «DELTA 2000».
VENGONO QUI PUBBLICATE LE VARIANTI
SPECIFICHE DI QUESTO TELAIO, MENTRE, PER
TUTTA LA RESTANTE DOCUMENTAZIONE
TECNICA, RIFERIRSI A QUANTO PUBBLICATO IN
PRECEDENZA PER IL TELAIO «DELTA 2000».

3. Electrical Settings

The following settings are described below:

- Power supply unit
- TV and picture tube part

3.1 Power supply unit (PS)

3.1.1 UBAT (R3348)

Procedure: Ensure correct functioning

Consequences of incorrect settings:
The correct functioning of the TV and VCR is not guaranteed.

TP	ADJ.	MODE	INPUT
C2353	R3346	Main switch ON	SCART input No signal
TAPE	MEAS. EQ		14.20V ± 15V 21.20V ± 15V 25V ± 15V (see description below)

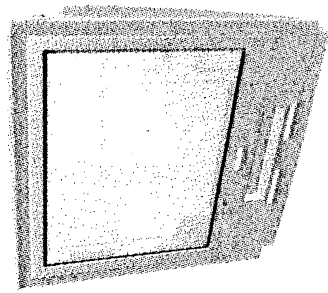
Note: C2353 and R3346 are located on the TVS-board (P3 unit)

3.2 TV and picture tube settings (TV, LS)

Preparation:

- Demagnetise the picture tube (connect the device - cooled to room temperature - to the mains).
- Set the brightness and contrast controls to the maximum.
- Set the contrast control to the maximum.
- Set the picture control to the maximum.
- Set the picture control to the maximum.
- Set the picture control to the maximum.

Switch "CONTRAST PLUS" in the "PICTURE" menu to "OFF".



Note: Before adjustment, set the sharpness in the "PICTURE" menu to the centre value. Remark: FOCUS is the upper control on the transformer.

3.8.3 Horizontal picture position

Purpose: Ensure correct horizontal picture position

Consequences of incorrect settings:
Missing picture information on the edge of the screen

TP	ADJ.	MODE	INPUT
	Service Menu	Service Mode, Playback	
TAPE	MEAS. EQ		SPEC.
VHS-Alignment Type	4822 397 30103		See description below (and Fig. E5)

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

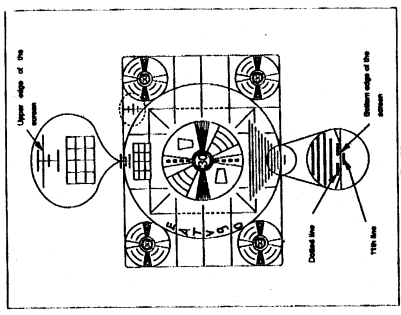


Fig. E5

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to position the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

Note: The focus can be controlled by pressing the "MENU" button on the remote control. Pressing "MENU" again switches the Service menu back on.

3.8.4 Vertical picture position, picture amplitude and slope

Purpose: Set optimal vertical picture size and position

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

TP	ADJ.	MODE	INPUT
	Service Menu	Service Mode, Playback	
TAPE	MEAS. EQ		SPEC.
VHS-Alignment Type	4822 397 30103		See description below (and Fig. E5)

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.5 EastWest adjustments (for 25" and 21" Real Flat only)

Purpose: Set optimal horizontal picture size and position

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.6 Adjusting the whiteness

Purpose: Setting the RGB cathode ray currents

Consequences of incorrect settings:
Incorrect depiction of colours.

TP	ADJ.	MODE	INPUT
	Service Menu	TV	PAL/Secam/NTSC
TAPE	MEAS. EQ		SPEC.
VHS-Alignment Type	4822 397 30103		See description below (and Fig. E5)

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.7 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.8 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.9 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.10 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

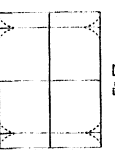


Fig. E7

3.8.11 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.12 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.13 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.14 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.15 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.16 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.17 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.

CONTROL MENU line and press "V".
Use the arrow keys "←" and "→" to adjust the test picture in the center of the screen (left and right-hand corners are of equal size).
Hold down the "OK" button for 5 seconds until "STORED" appears.

3.8.18 EastWest contrast

Purpose: Set optimal contrast

Consequences of incorrect settings:
Missing picture information on the edge of the screen, or a distorted picture.

Procedure:
Call up Service mode (press the "STOP" button on the remote control, then the "PLAY" button on the device, and hold down both buttons for approx. 5 seconds).
In the Service menu, use the "V" button to select the "SERVICE" menu.
Use the arrow keys "←" and "→" to adjust the left and right hand side of the picture.
Hold down the "OK" button for 5 seconds until "STORED" appears.



Deflection (LS) - TV Board (TVB21RF)

TVCR Delta 2000 Real Flat PHILIPS

1(F)

HORIZONTAL VERTICAL
DEFLECTION



▶ UBAT
to LS

▶ 3A
TUI

▶ 4TVB
V.D.1

▶ 14A
FEATURE

▶ 7N55
to 101

▶ CHASSIS
OFF to 101

▶ 18TVB

▶ 4TVB

▶ 4TVB

▶ 4TVB

▶ 4TVB

▶ 4TVB

▶ 4TVB

▶ 4TVB

▶ 4TVB

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▶ 4TVB

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▶ 4TVB

▶ 4TVB

▶ 4TVB

▶ 4TVB

▶ 4TVB

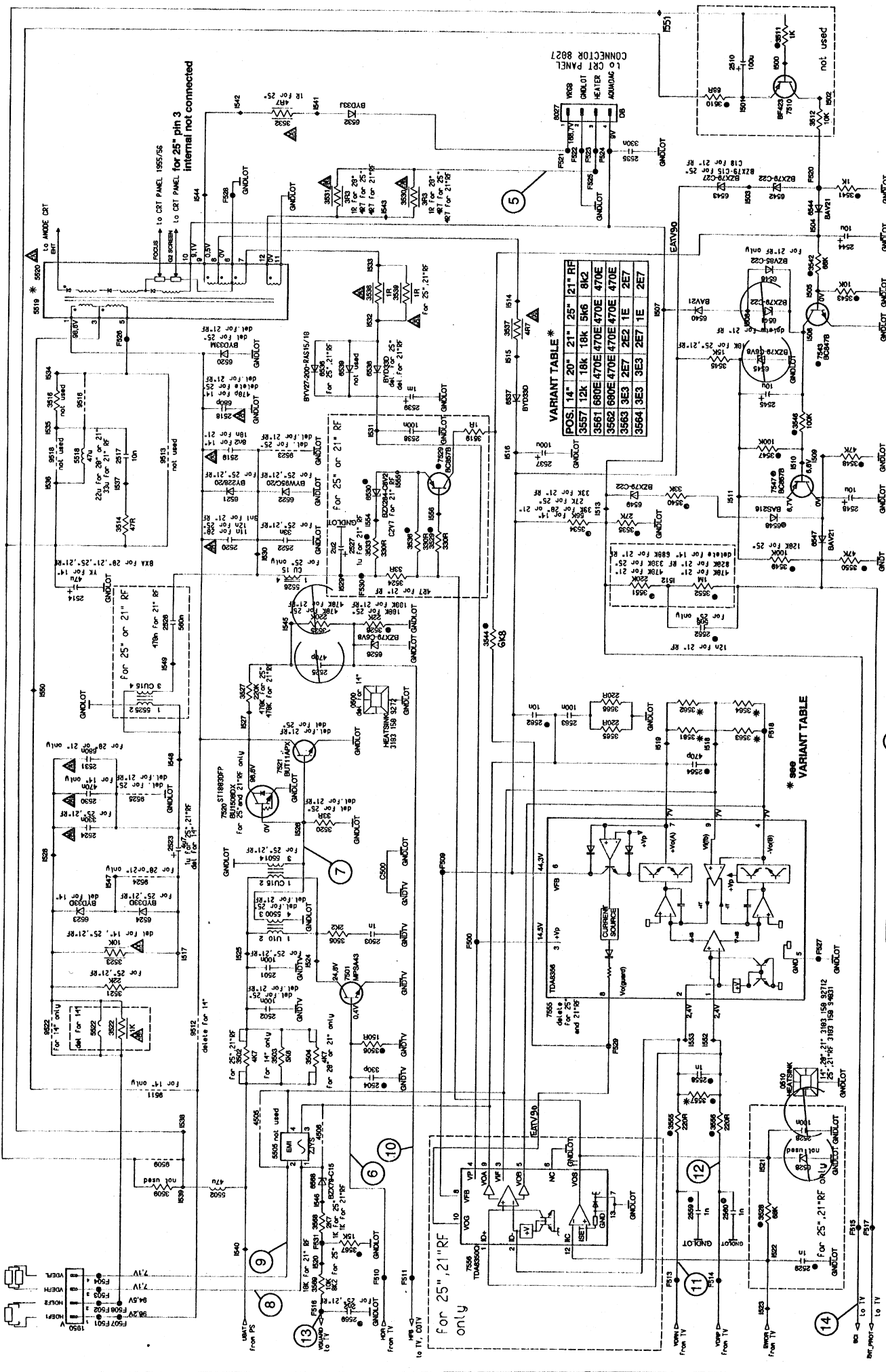
▶ 4TVB

▶ 4TVB

▶ 4TVB

▶ 4TVB

▶ 4TVB



VARIANT TABLE *

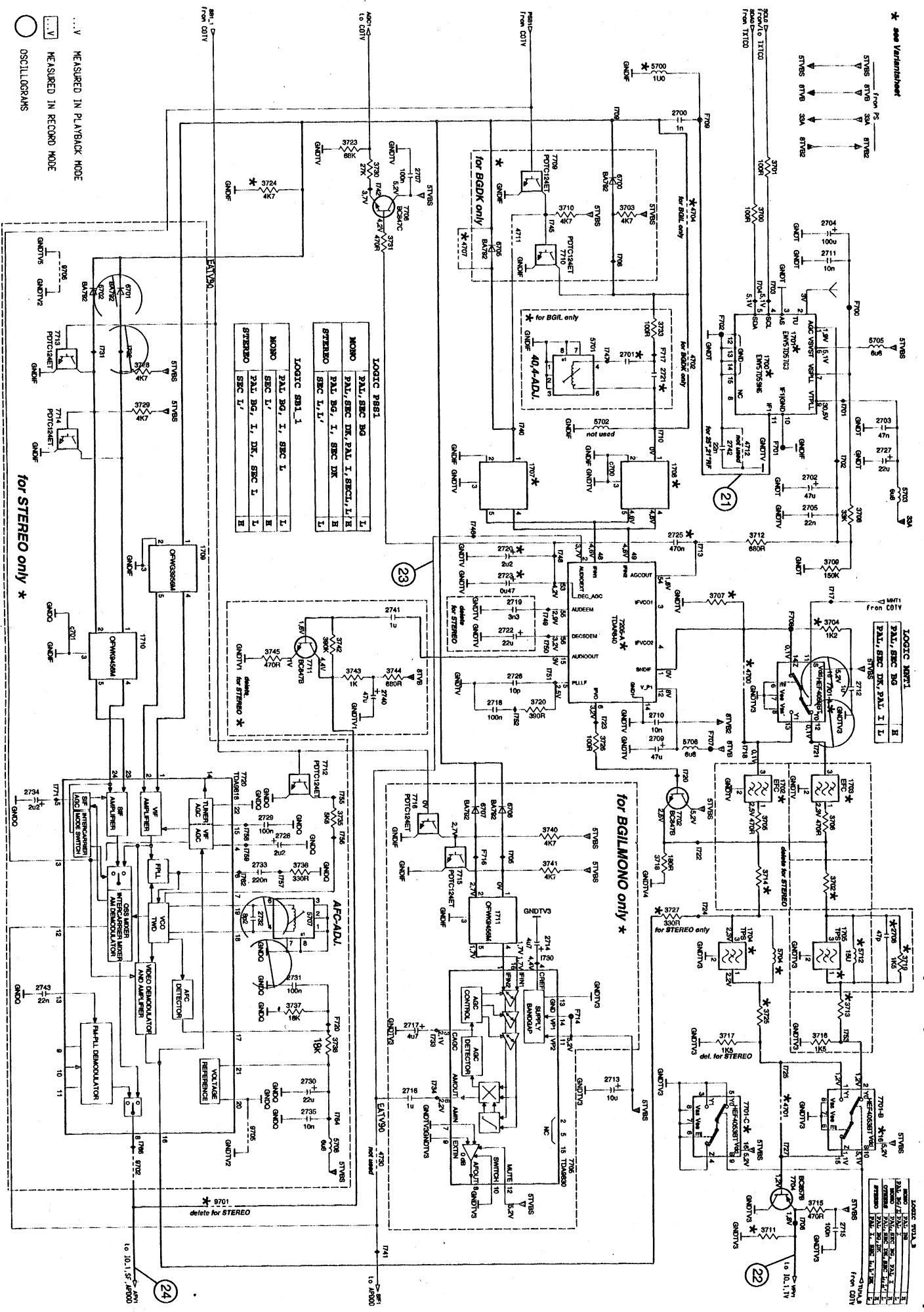
POS.	14"	20"	21"	25"	21" RF
3557	12k	18k	18k	5k6	8k2
3561	680E	470E	470E	470E	470E
3562	680E	470E	470E	470E	470E
3563	3E3	2E7	2E7	1E	2E7
3564	3E3	3E3	2E7	1E	2E7

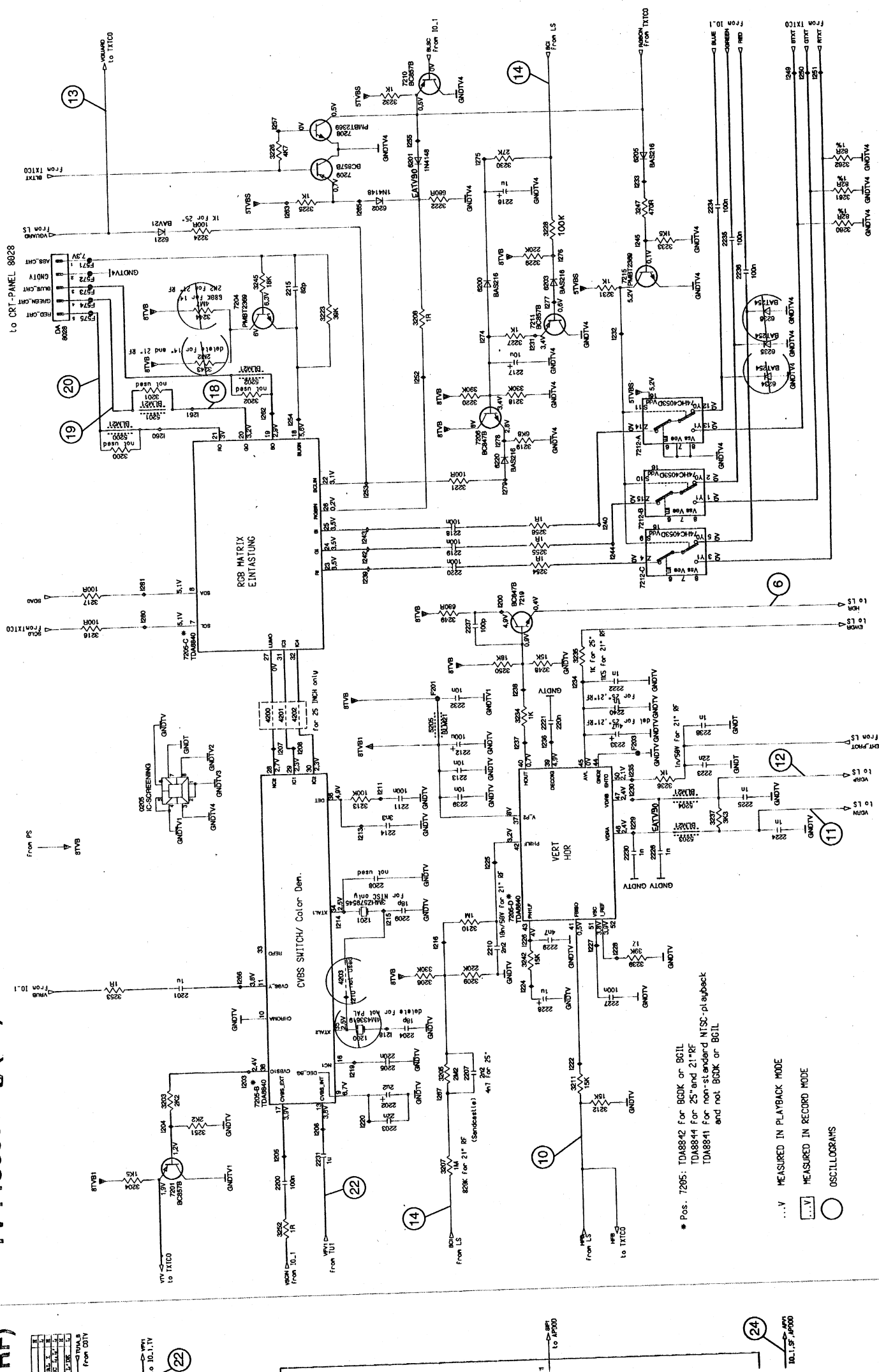
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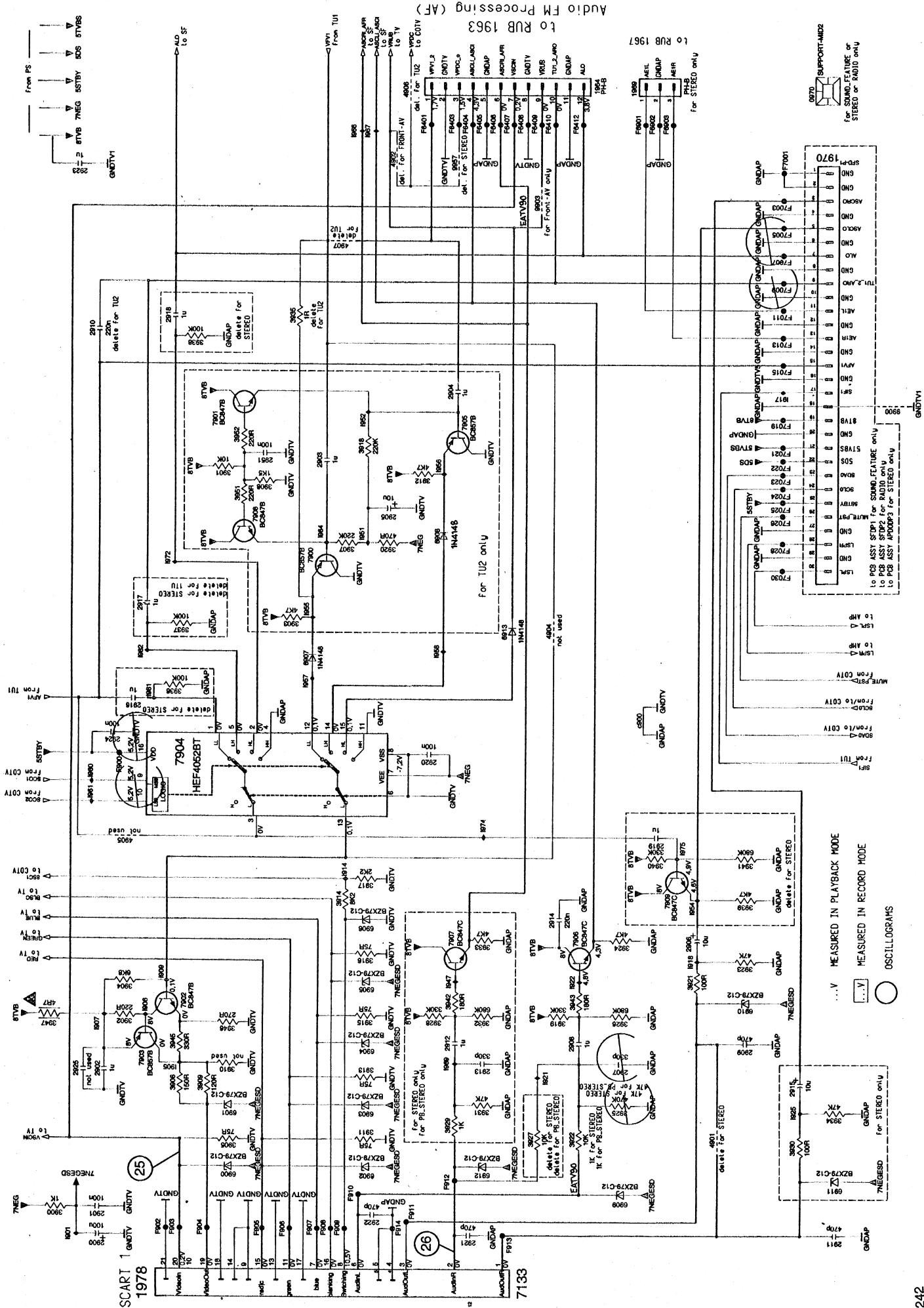
POS.	14"	20"	21"	25"	21" RF
3557	12k	18k	18k	5k6	8k2
3561	680E	470E	470E	470E	470E
3562	680E	470E	470E	470E	470E
3563	3E3	2E7	2E7	1E	2E7
3564	3E3	3E3	2E7	1E	2E7

...V MEASURED IN PLAYBACK MODE [] V MEASURED IN RECORD MODE

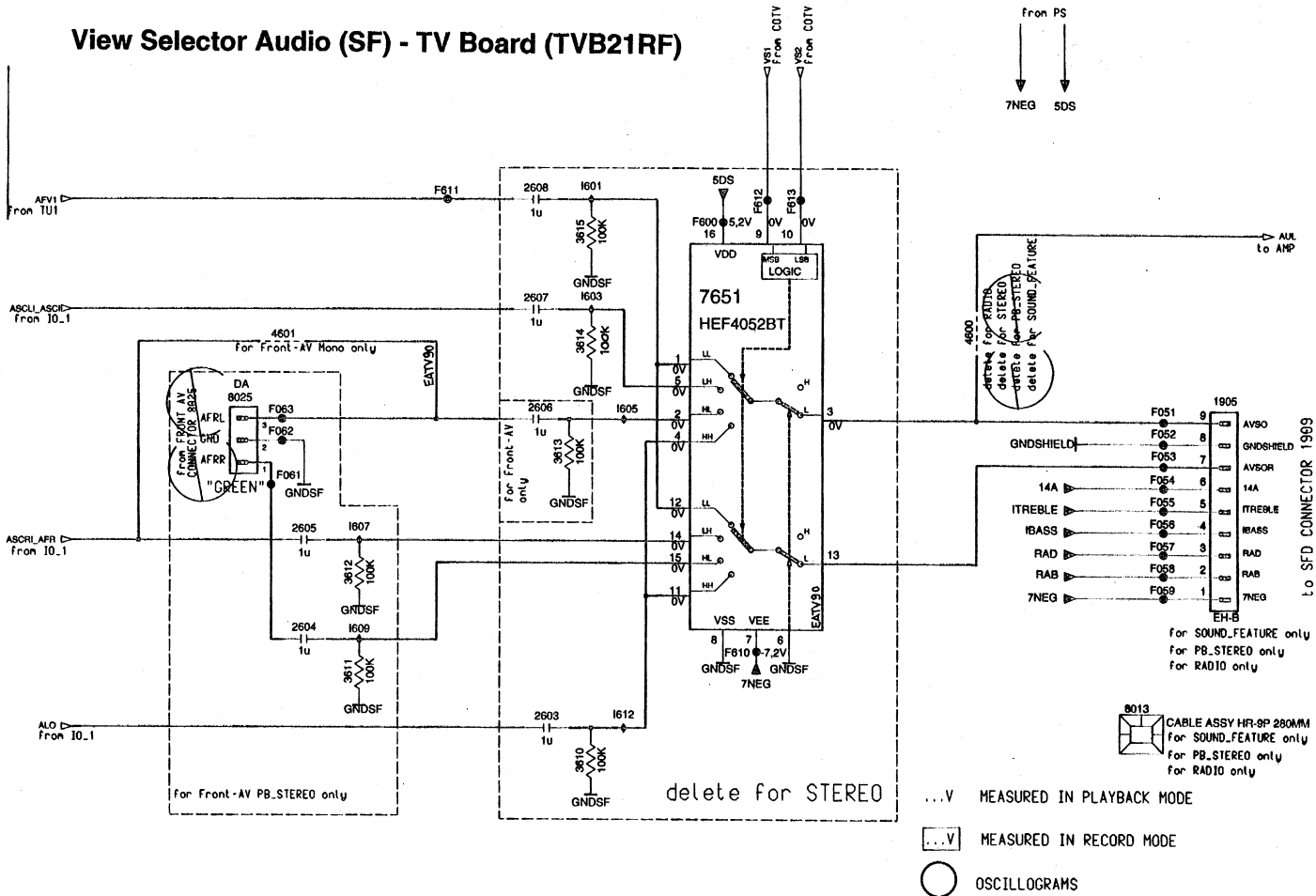
○ SHD components



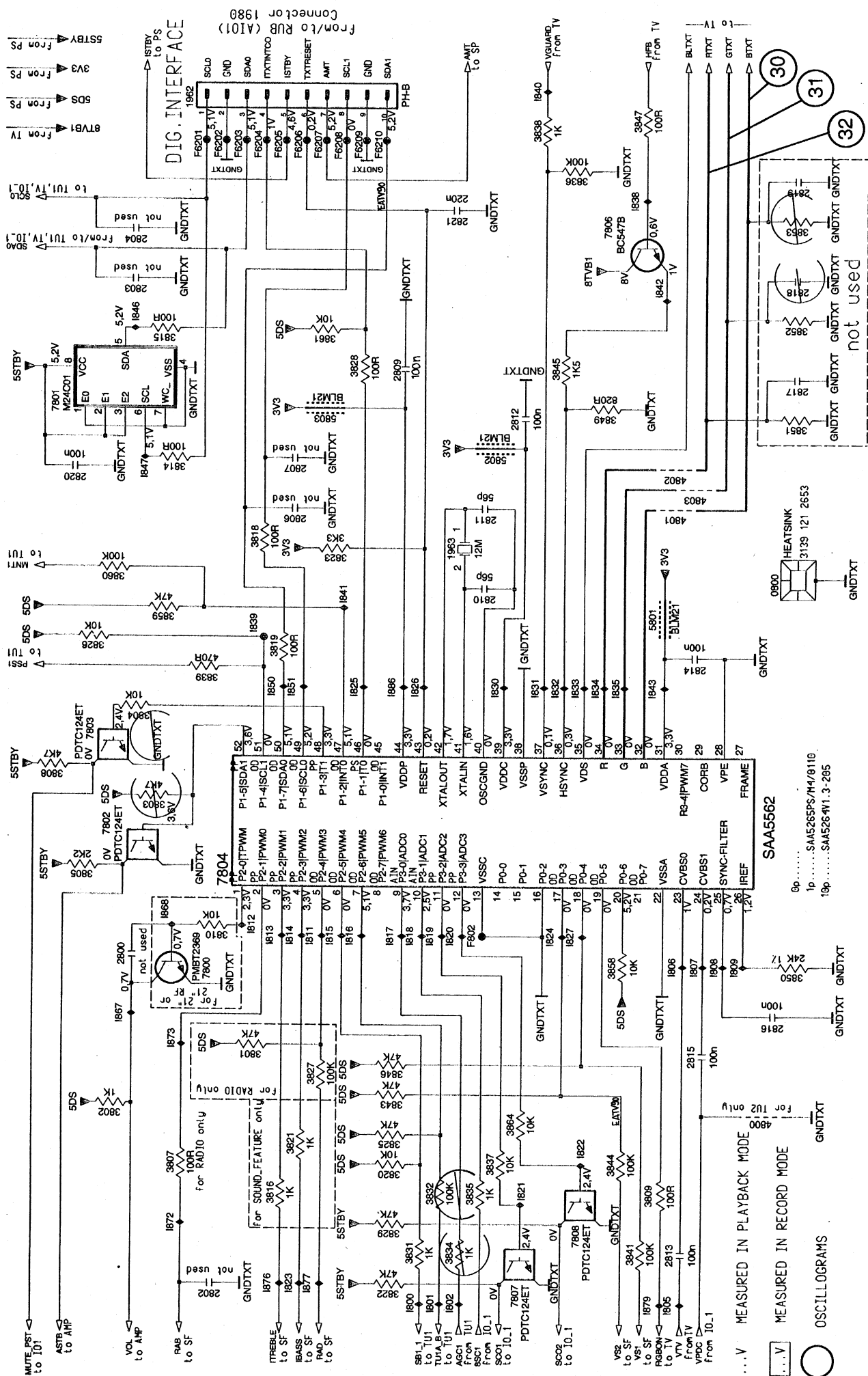




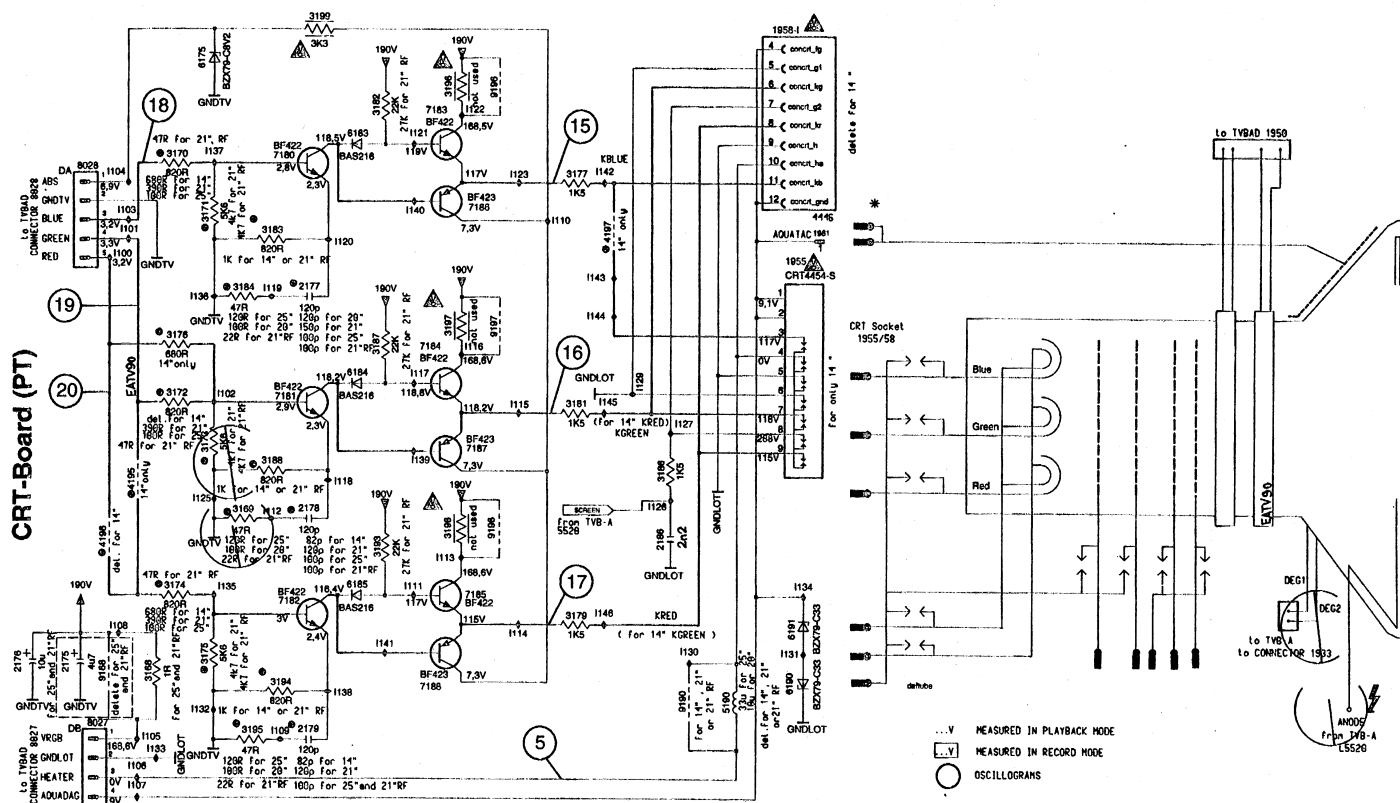
View Selector Audio (SF) - TV Board (TVB21RF)



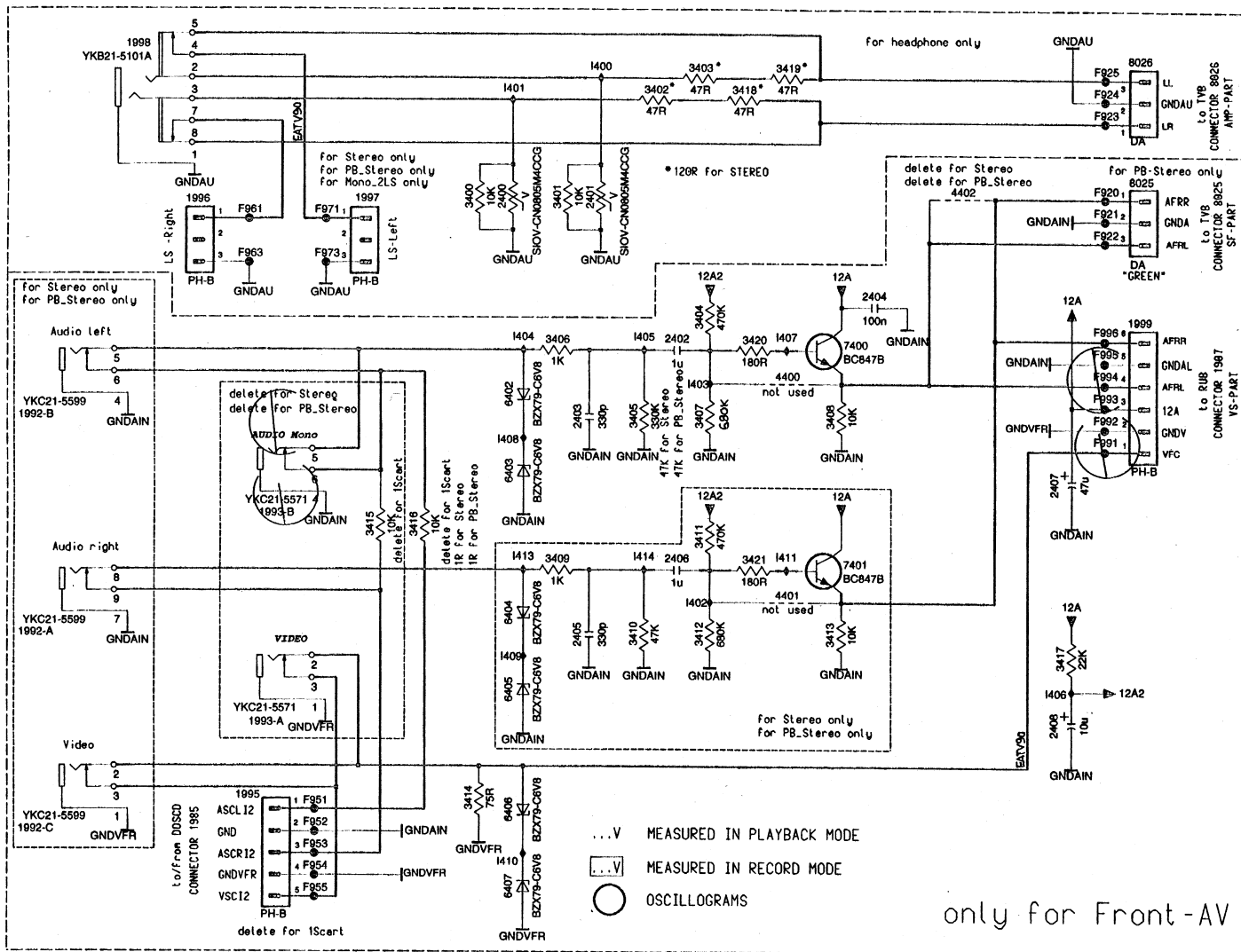
Teletext Controller (COTV) - TV Board (TVB21RF)



CRT-Board (PT)



Headphone, Front-AV Board (HPAV)



only for Front-AV