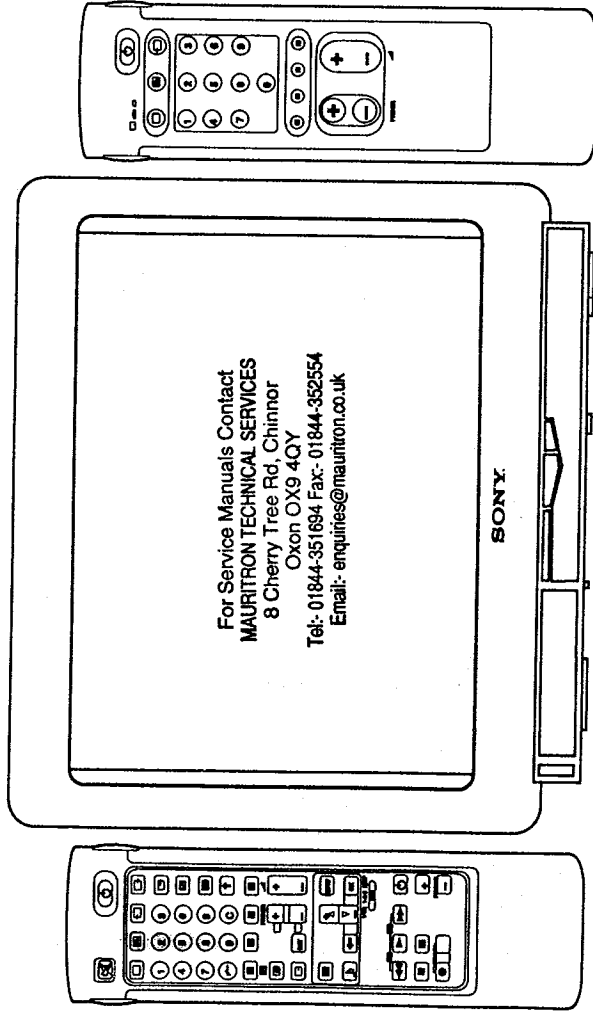


Model Chassis No.
SONY AE-2
 KV-X2162 KV-X2562 KV-X2962



Forneserve

Product Type: Television



For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

Top View

Bottom View

RM830
 1-693-176-11

Technical Information

Features

- Hi Black Trinitron Tube
- Nicam Sound
- Fastext
- 2 x Peritel Socket
- Full On Screen Display (OSD)
- S-VHS Mini Din Connector
- Video Input Socket (Phono)
- Audio Input Sockets (Phono)
- 2 x 30W Music Power
- Headphone Socket (3.5mm Jack)

Specifications

MODEL	KV-X2162	KV-X2562	KV-X2962
POWER CONSUMPTION	124W	159W	175W
WEIGHT	26.5 Kg	37 Kg	52 Kg
DIMENSIONS W x H x D	512 x 449 - x 456mm	575 x 488 - x 487mm	656 x 560 - x 518mm

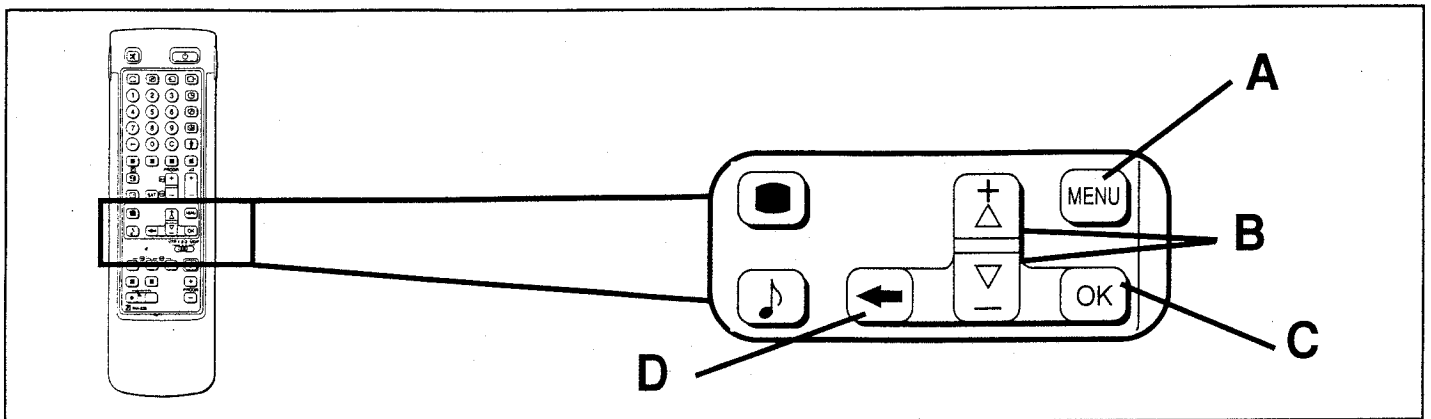
THORN EMI UK Rental Ltd

Service Information

TEUKR Part No. TP32012


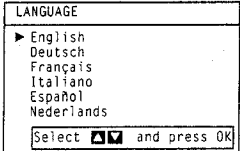

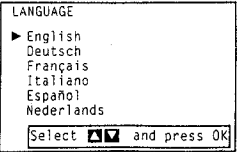


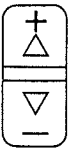
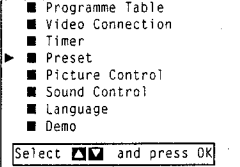

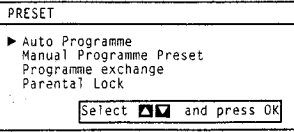
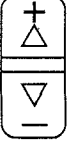
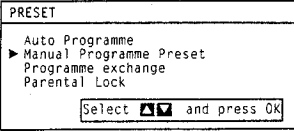
1670


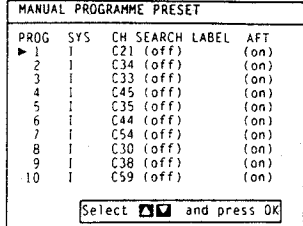
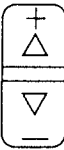
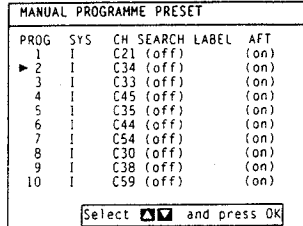

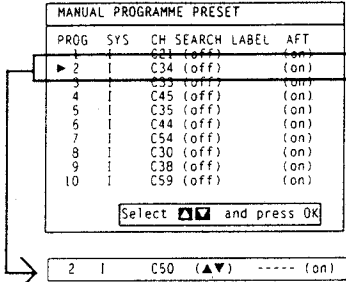
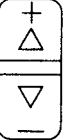

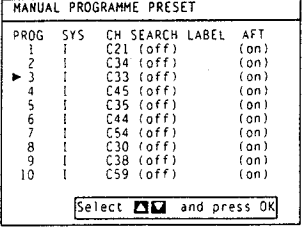

— BASIC TUNING GUIDE —



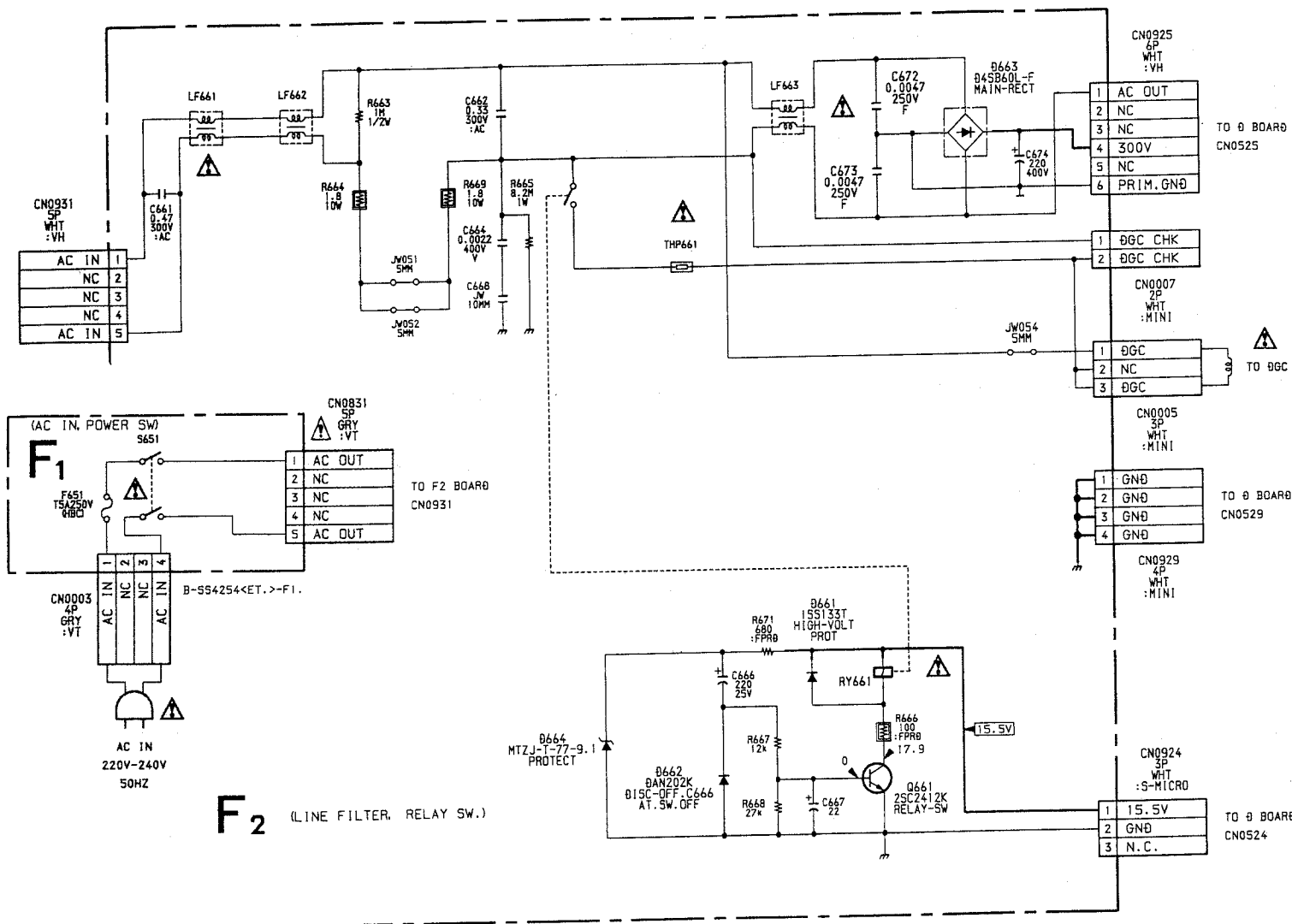
NOTES DURING THE TUNING OPERATION: IF THE MENU DISAPPEARS FROM THE TELEVISION SCREEN, RESTART FROM STEP ONE.

IF YOU MAKE A MISTAKE: PRESS THE ARROW BUTTON (D) TO GO BACK TO THE PREVIOUS POSITION.

1.		TV SCREEN DISPLAY
	Press MENU (A). The 'Language' display appears on the television screen.	
	Press OK (C). For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor Oxon OX9 4QY Tel:- 01844-351694 Fax:- 01844-352554 Email:- enquiries@mauritron.co.uk	
	Press (D). ← The menu display appears.	
	Using $\Delta+$ or $\nabla-$ buttons (B), move the arrow head on the menu display to 'Preset'.	
	Press OK (C). The PRESET menu appears.	
	Using $\Delta+$ or $\nabla-$ buttons (B), move the arrow head on the menu display to 'Manual Programme Preset'.	

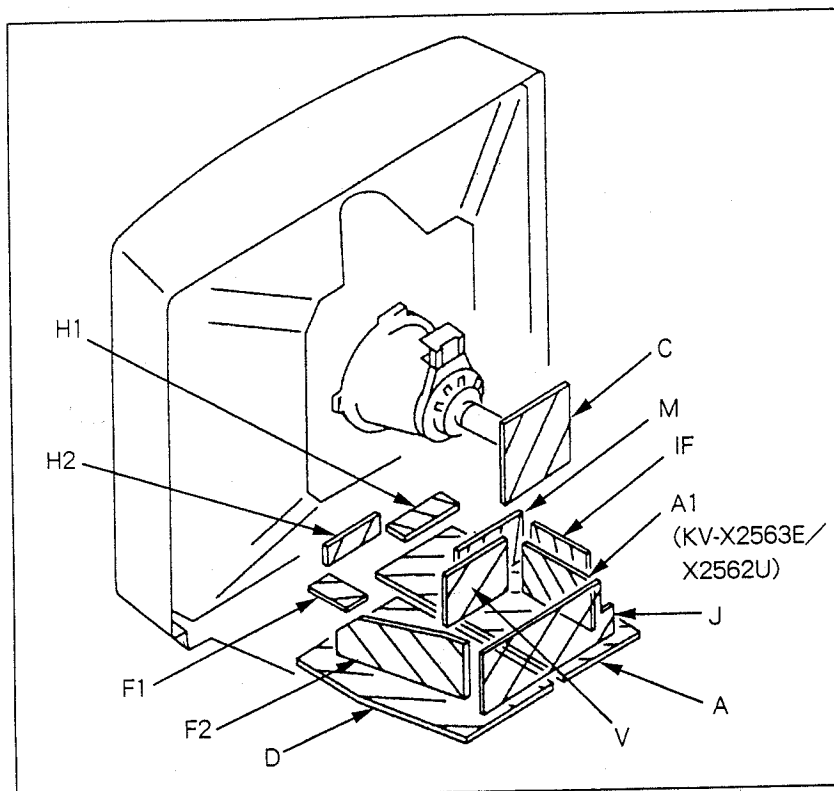
<p>7.</p> 	<p>Press OK (C). The MANUAL PROGRAMME PRESET menu appears on the television screen</p>	
<p>8.</p> 	<p>Using $\Delta+$ or $\nabla-$ buttons (B), move the arrow head on the television screen display to the 'programme number' (PROG) you wish to tune in.</p>	
<p>9.</p> 	<p>Press OK (C) 5 times so that the SEARCH position on the television screen display changes from 'off' to display two red arrows. ($\blacktriangle\nabla$). Note the 'channel number' will also change to red.</p>	
<p>10.</p> 	<p>Press either $\Delta+$ (up) or $\nabla-$ (down) (B) to start the television scanning through available stations. Each time the television finds a station it will stop scanning. If this is not the station you require, press $\Delta+$ or $\nabla-$ again (B) to start the television searching for the next station.</p>	
<p>11.</p> 	<p>When you have found the television station you require, press OK (C) 7 times to bring the arrow head on the television screen display to the left hand side of the menu screen and down to the next programme number (PROG).</p>	
<p>12.</p>	<p>Repeat steps 9 to 11 above until you have tuned in BBC1, BBC2, ITV, Channel 4 and any other television stations available in your area.</p>	
<p>13.</p> 	<p>Now you have tuned in all the available television stations, press MENU (A) to go back to the normal TV picture.</p>	

For further information, please refer to the main instruction manual.



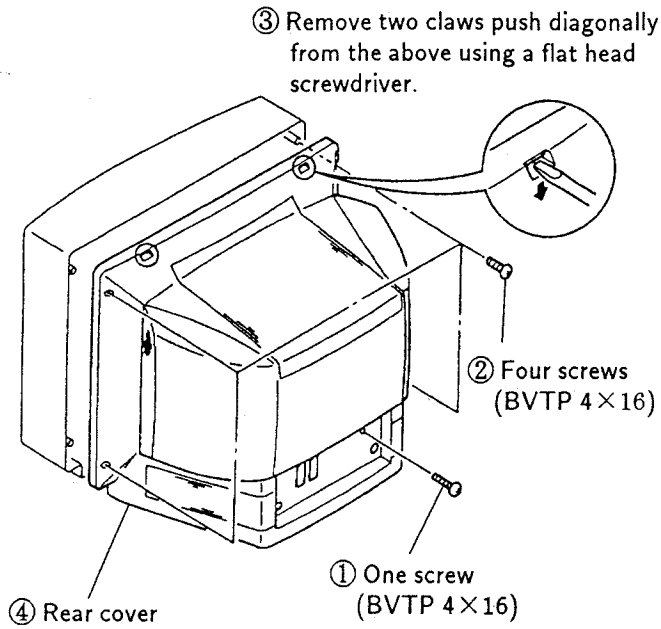
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CIRCUIT BOARDS LOCATION

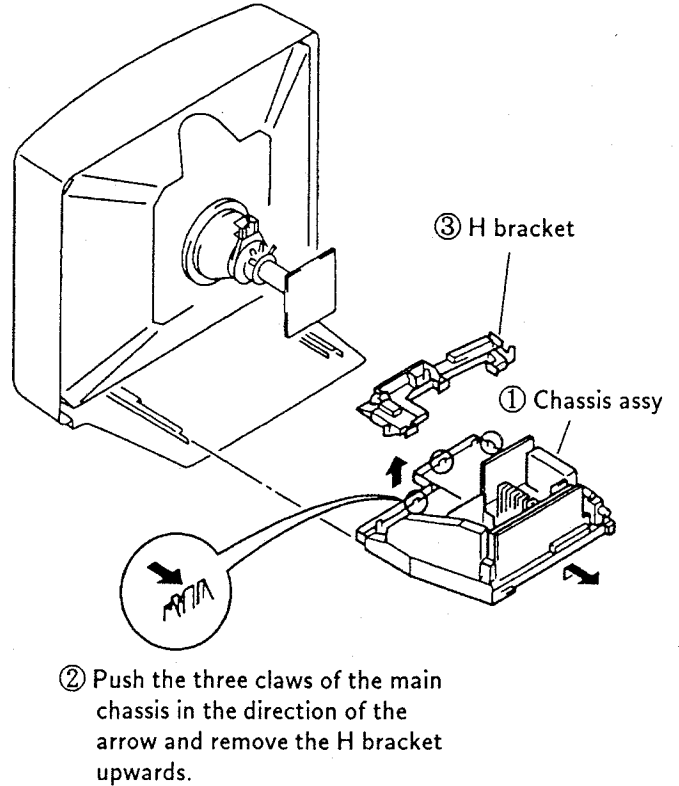


DISASSEMBLY

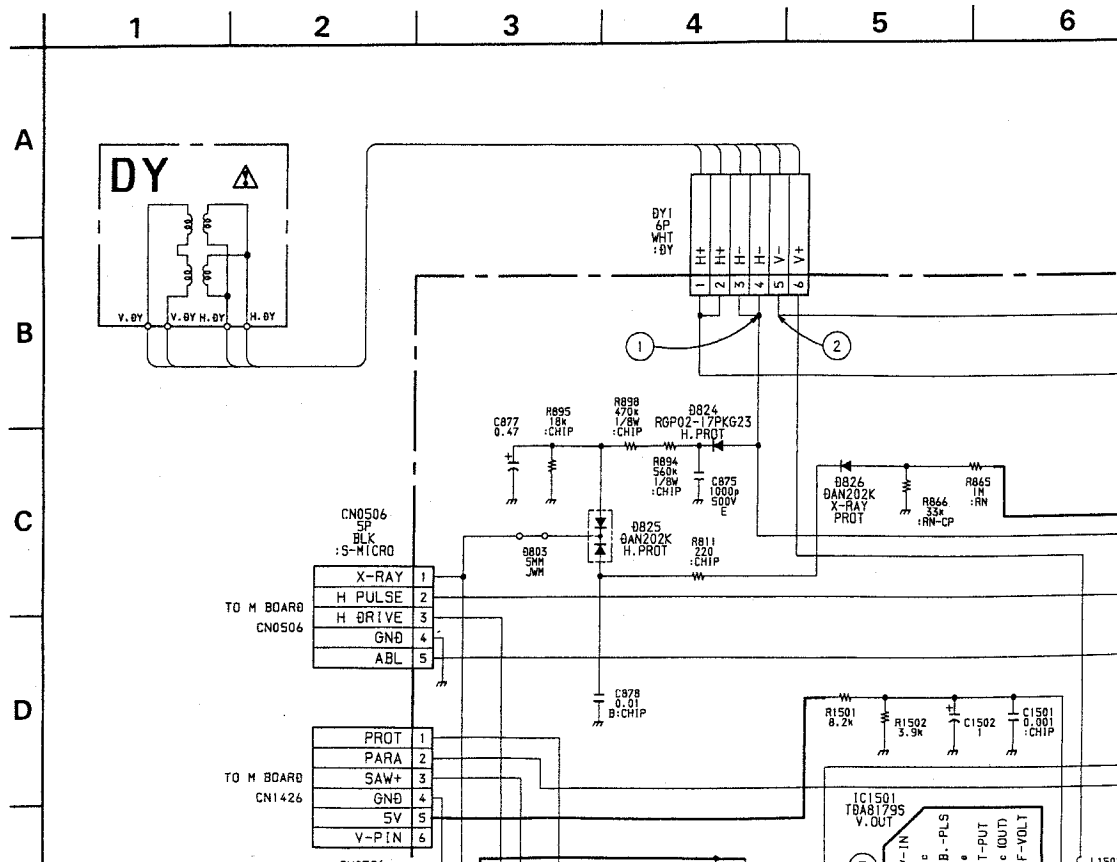
2-1. REAR COVER REMOVAL



2-2. CHASSIS ASSY REMOVAL



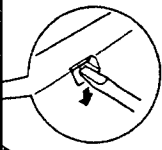
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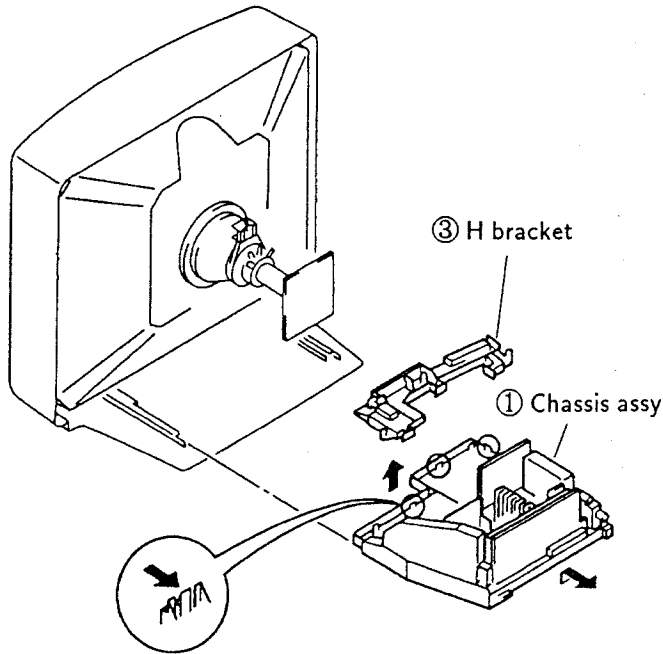
DISASSEMBLY

2-2. CHASSIS ASSY REMOVAL

Always push diagonally using a flat head



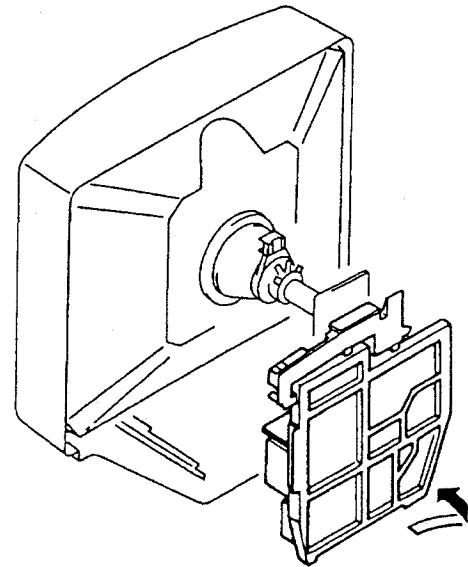
② Four screws (BVTP 4×16)



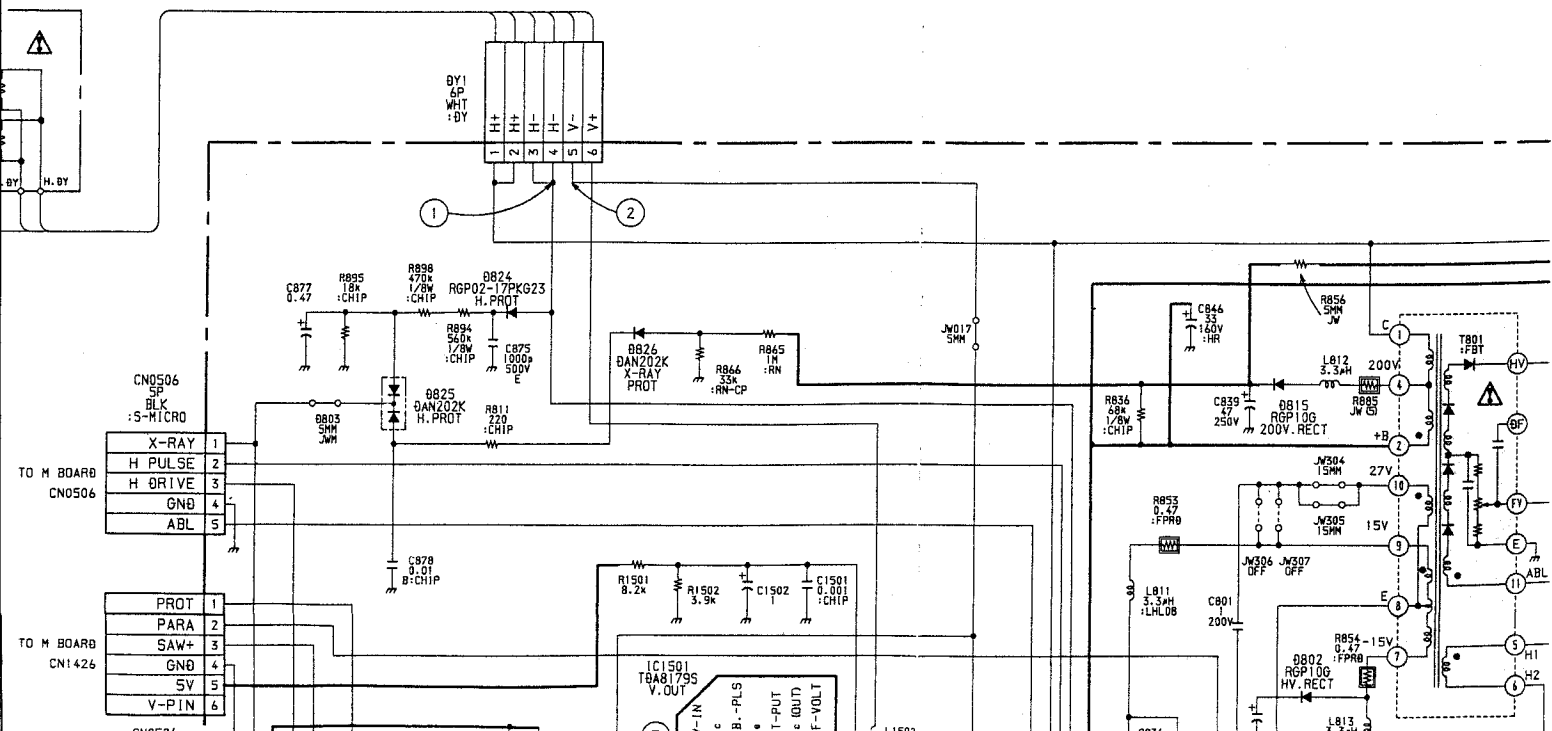
Always push diagonally using a flat head screwdriver (BVTP 4×16)

② Push the three claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

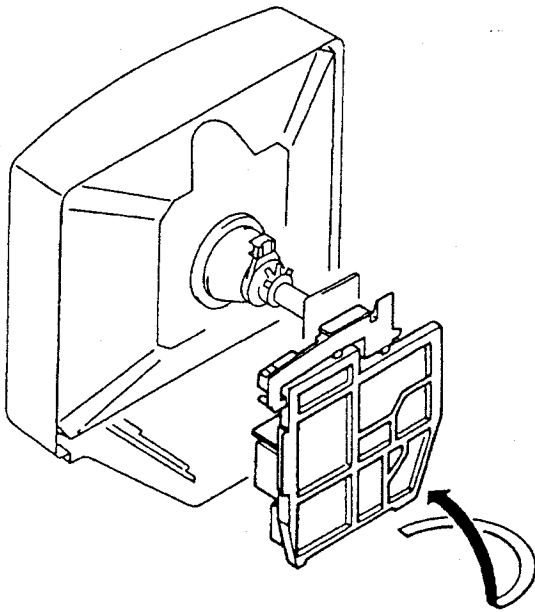
2-3. SERVICE POSITION (1)



2 3 4 5 6 7 8 9

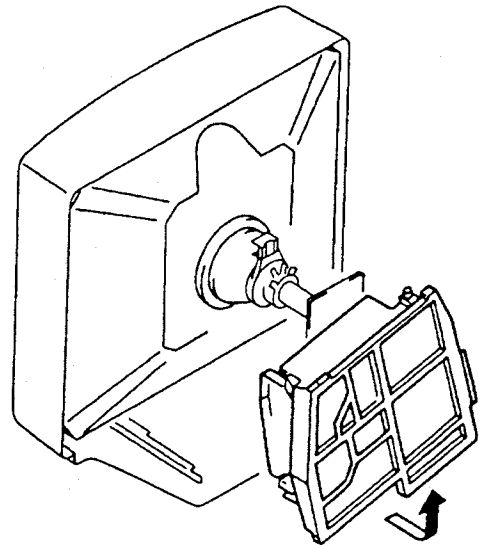


2-3. SERVICE POSITION (1)



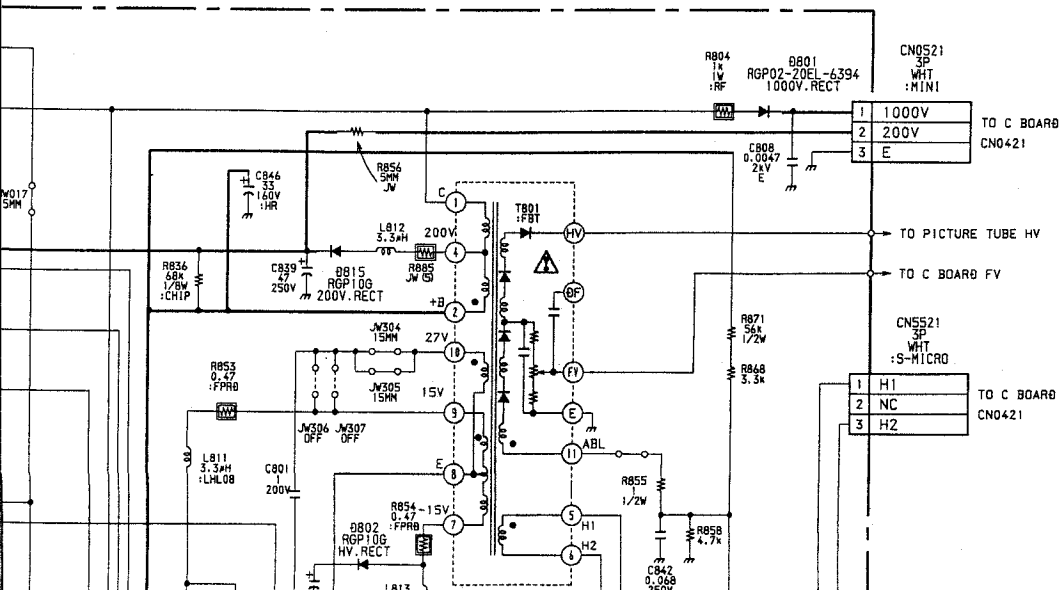
SERVICE POSITION (2)

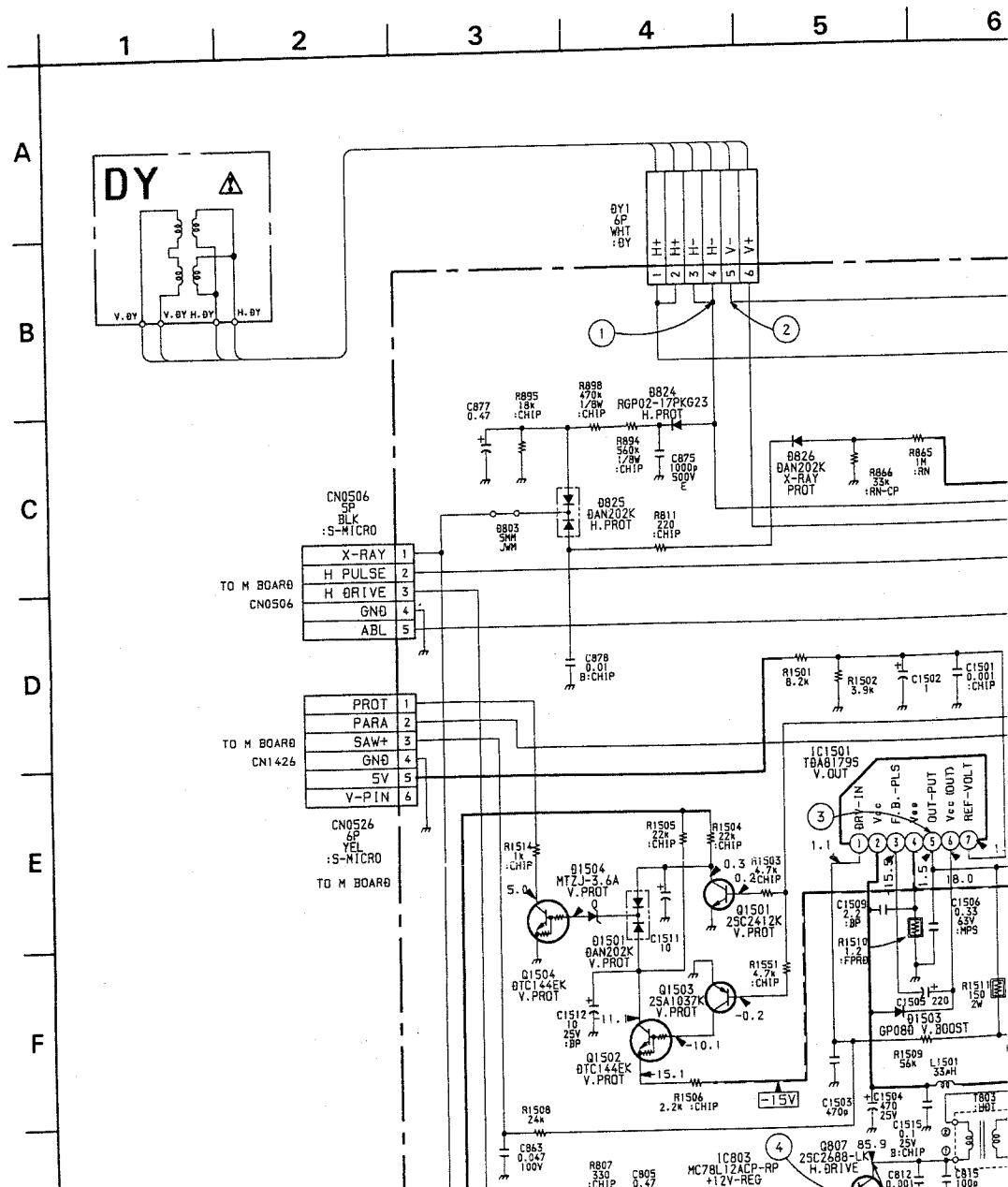
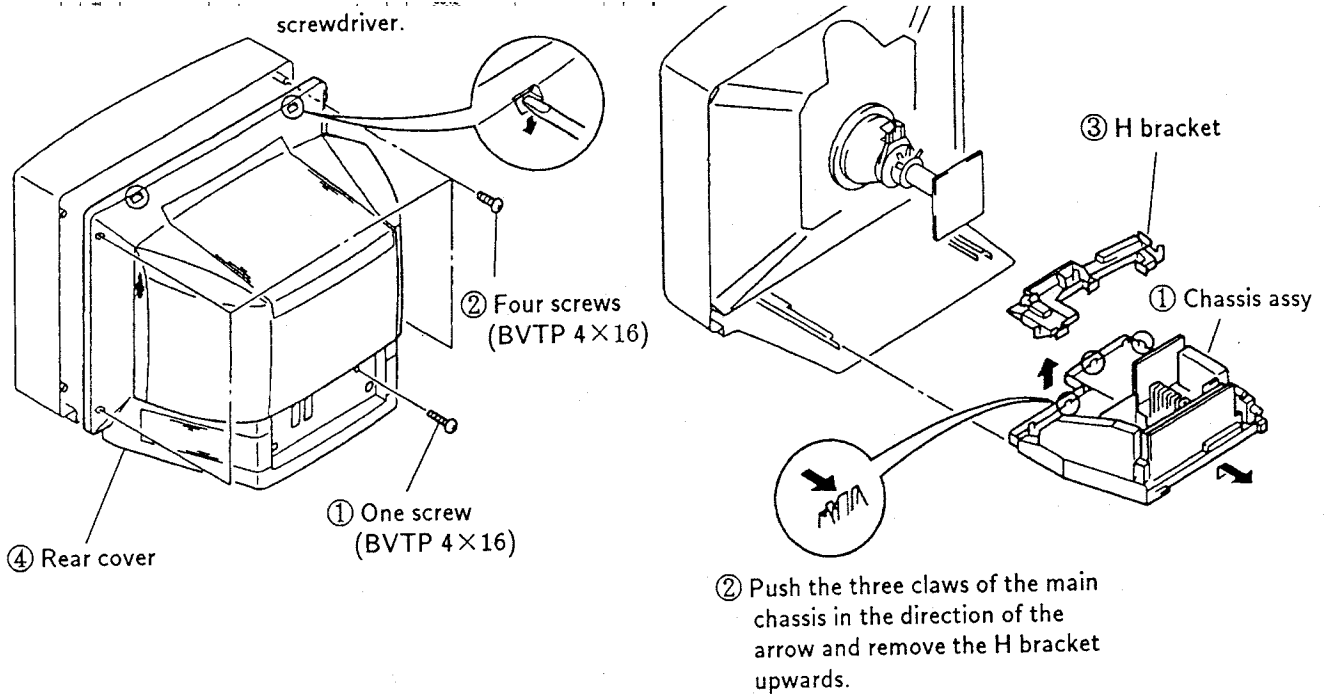
✳ Remove the H bracket from the chassis assy and then perform the following servicing.
(Refer to 2-2. CHASSIS ASSY REMOVAL)

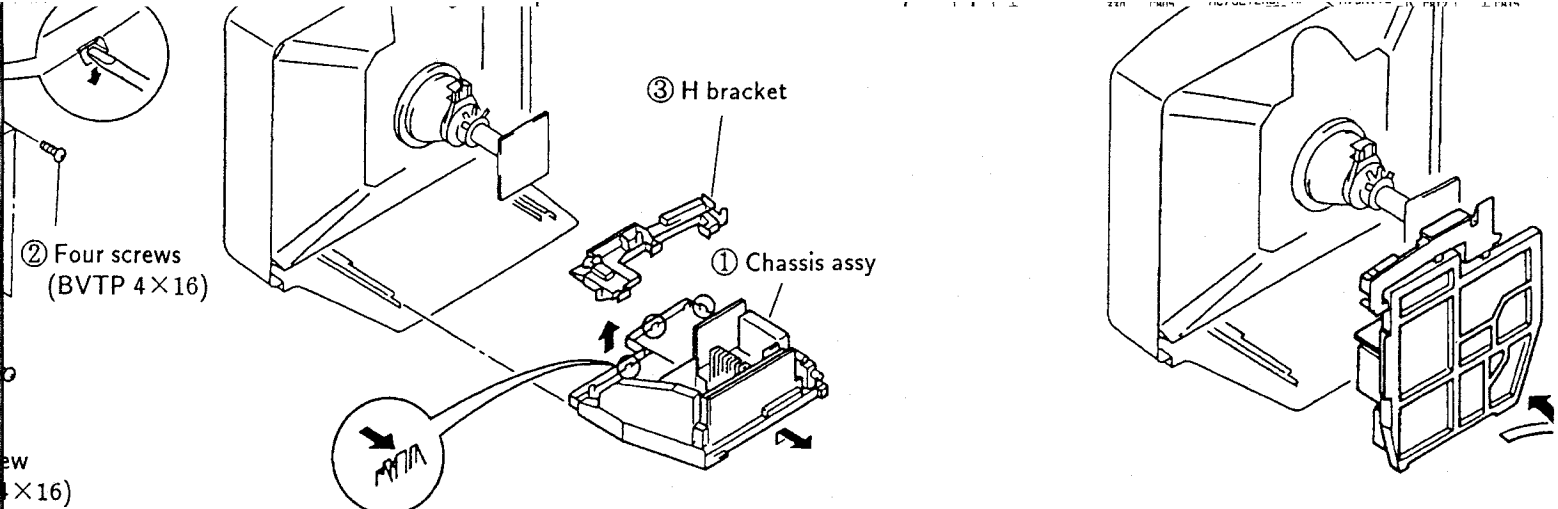


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7 8 9 10 11 12



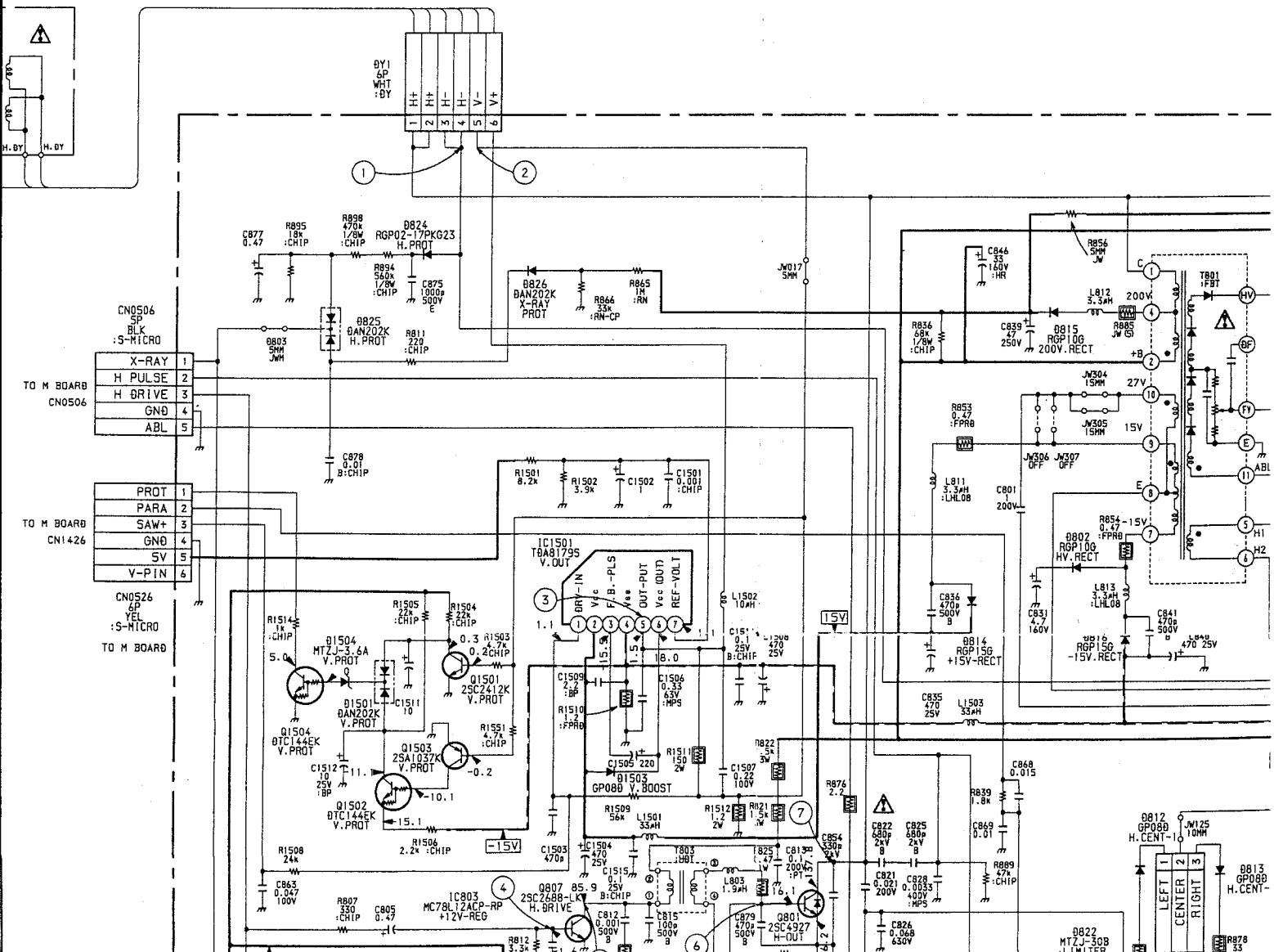


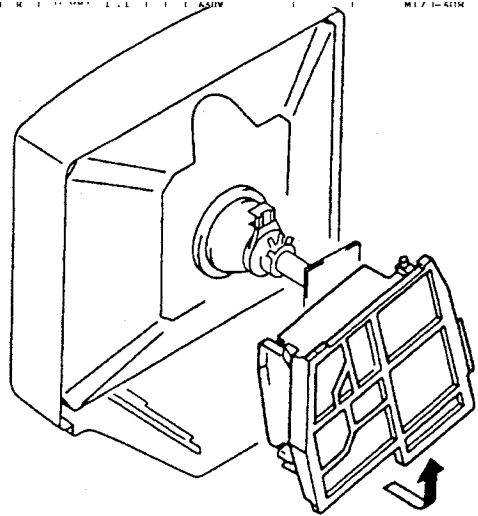
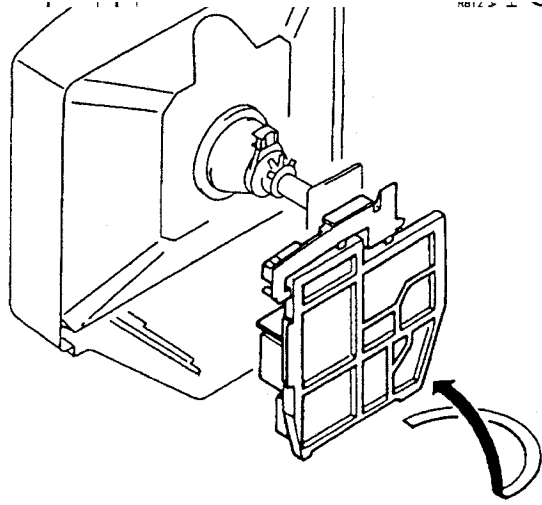


② Push the three claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

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2 3 4 5 6 7 8 9





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7

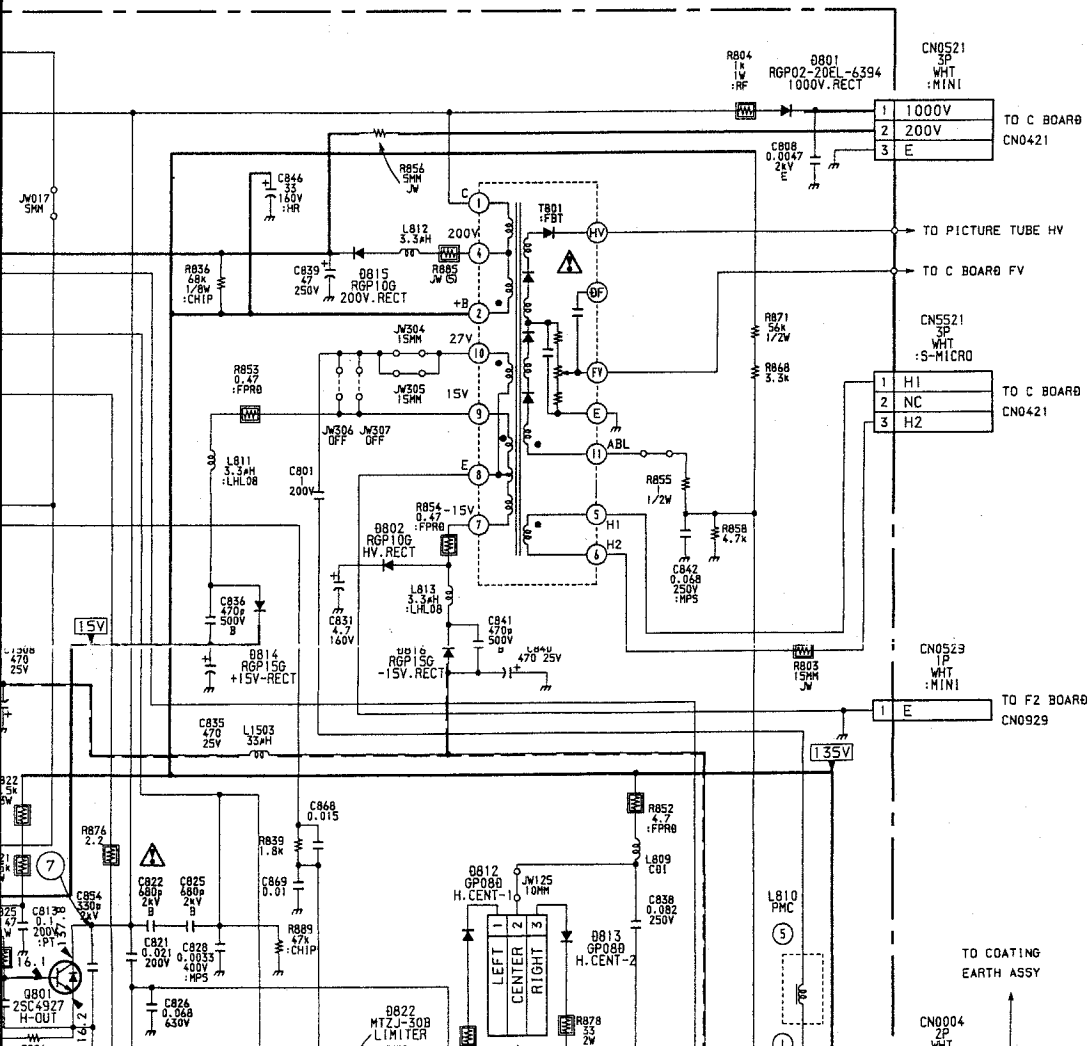
8

9

10

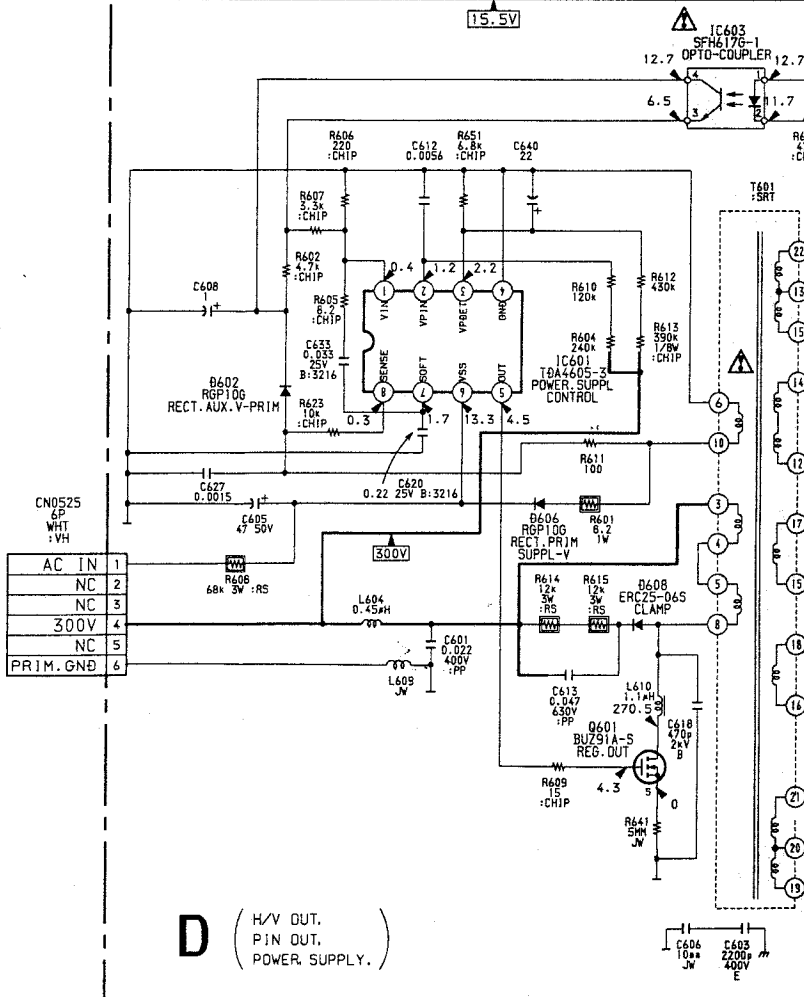
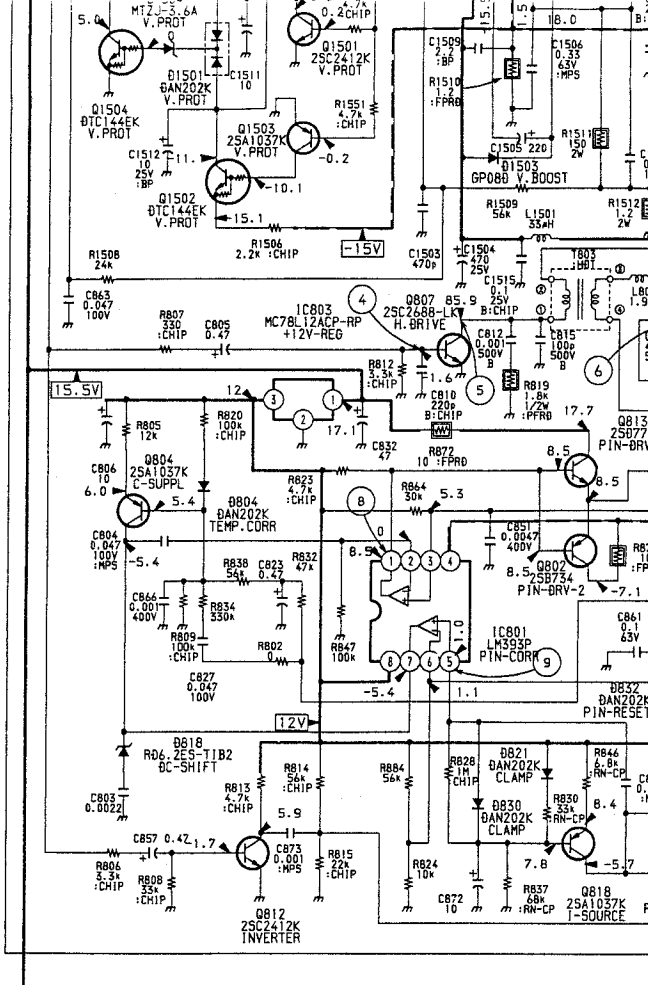
11

12



F
G
H
I
J
K
L
M
N
O

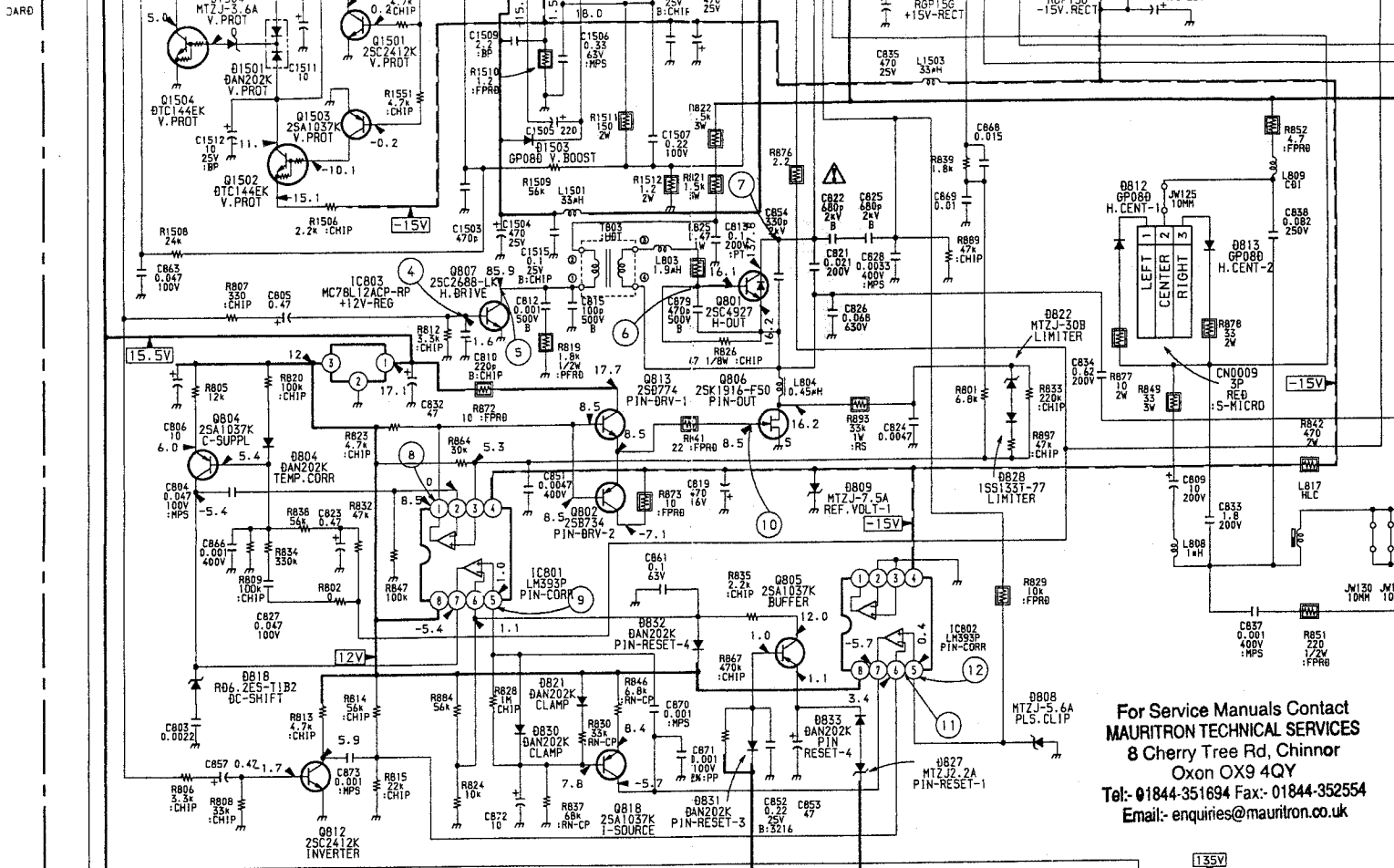
TO M BOARD



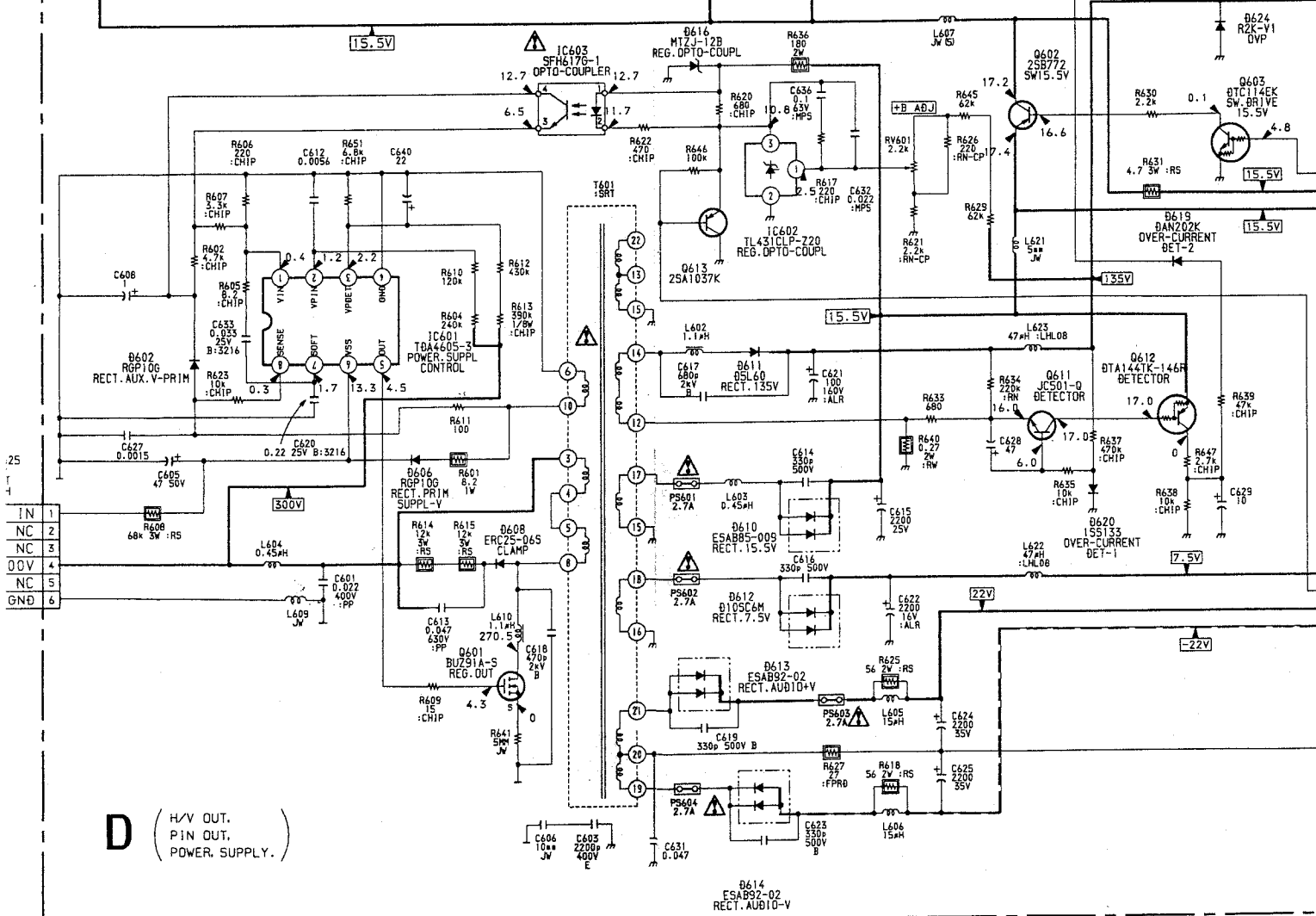
TO F2 BOARD
CN0925

AC IN	1
NC	2
NC	3
300V	4
NC	5
PRIM. GND	6

D (H/V OUT.
P/N OUT.
POWER SUPPLY.)



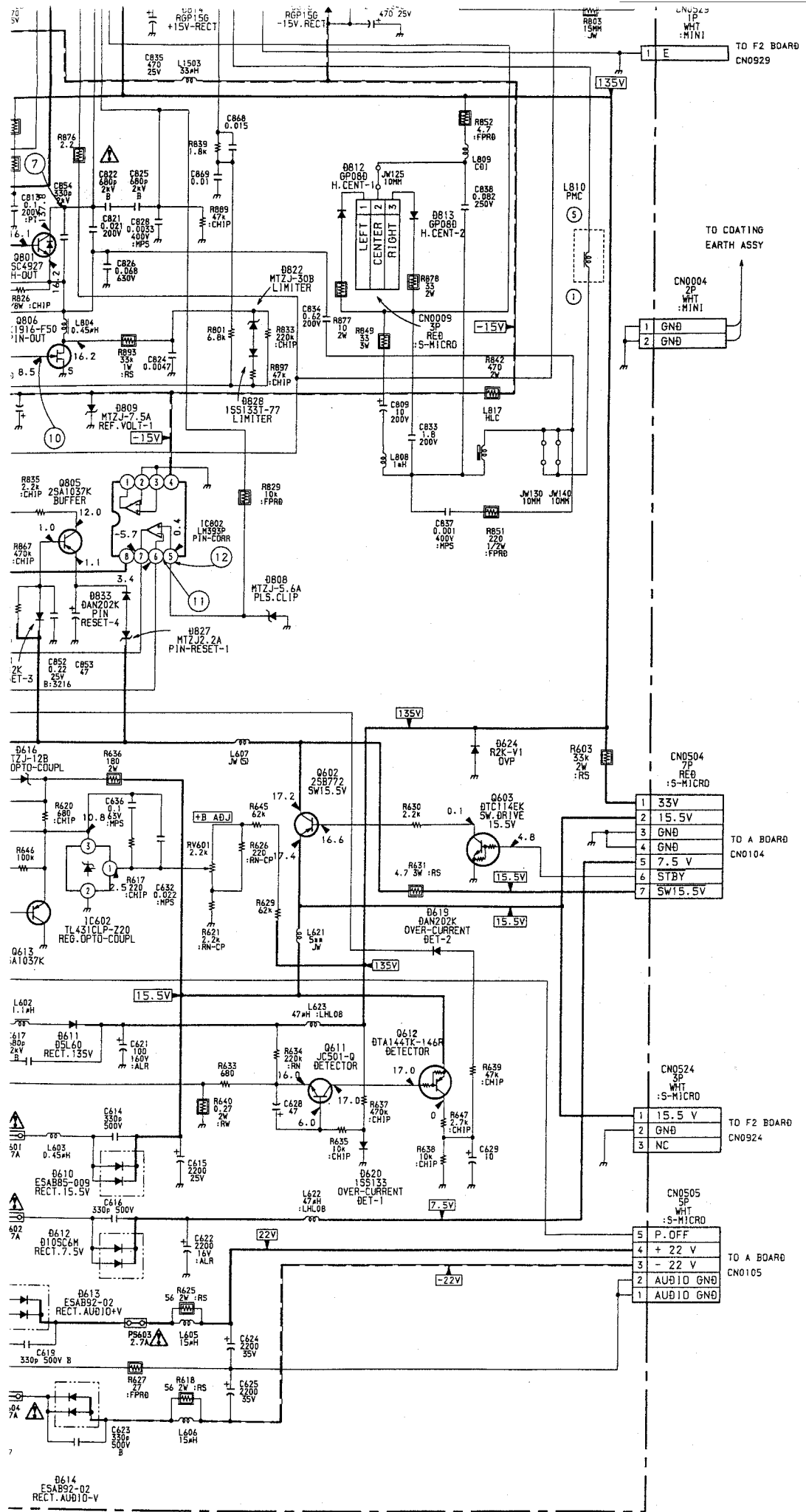
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 Email: enquiries@mauritron.co.uk



IN	1
NC	2
NC	3
OVV	4
NC	5
GND	6

D (H/V OUT.
 PIN OUT.
 POWER SUPPLY.)





Foronreserve

CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-830.

For Service Manuals Contact
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 Email:- enquiries@mauritron.co.uk

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.

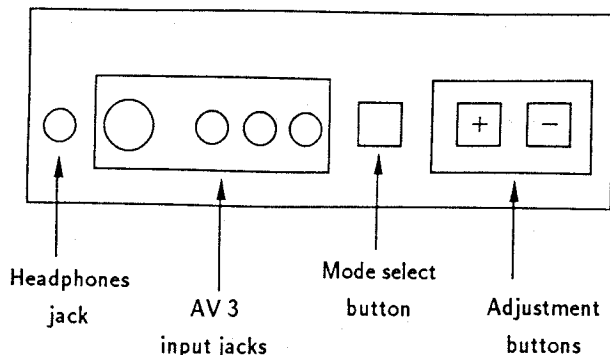


Fig.4-1

2. "TT" will appear on the upper right corner of the screen.

Command operation in service mode

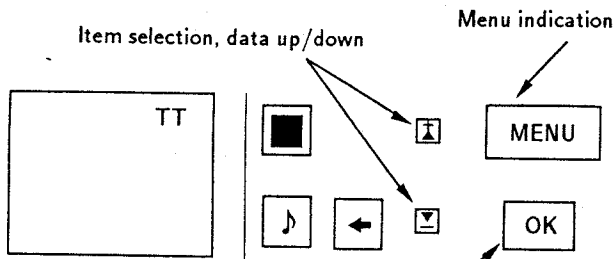


Fig.4-2

Fig.4-3

3. Press the **MENU** button of the commander to get the menu on screen.

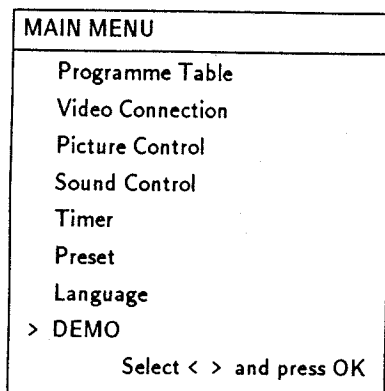
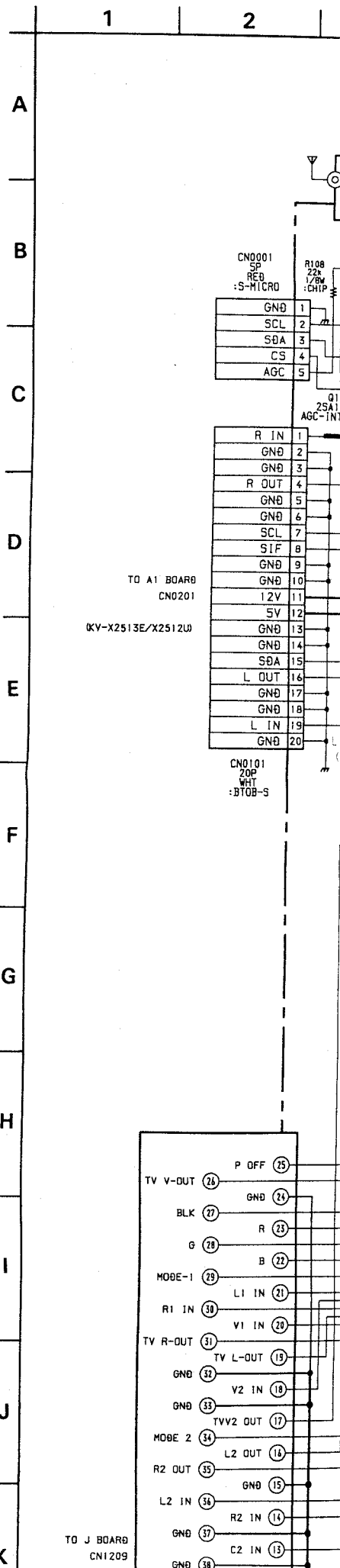


Fig.4-4



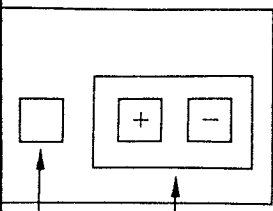
ADJUSTMENTS

ADJUSTMENTS

This model can be performed
with the commander RM-830.

SERVICE MODE

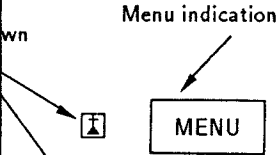
Press the menu switch of the set while
power is on the front panel.



Mode select
button Adjustment
buttons

In the upper right corner of the
front panel.

Service mode

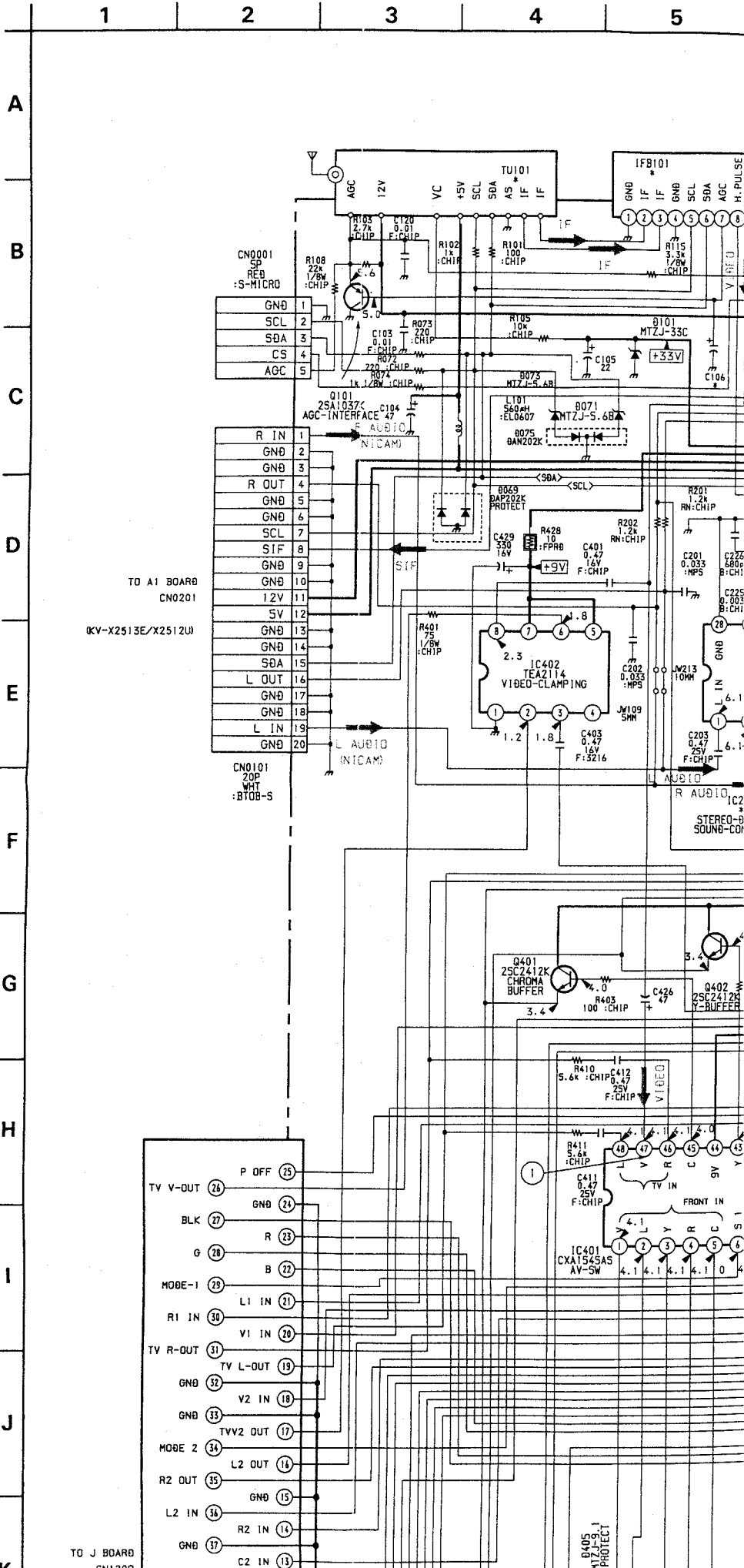


Press the menu button of the commander to get
into service mode.

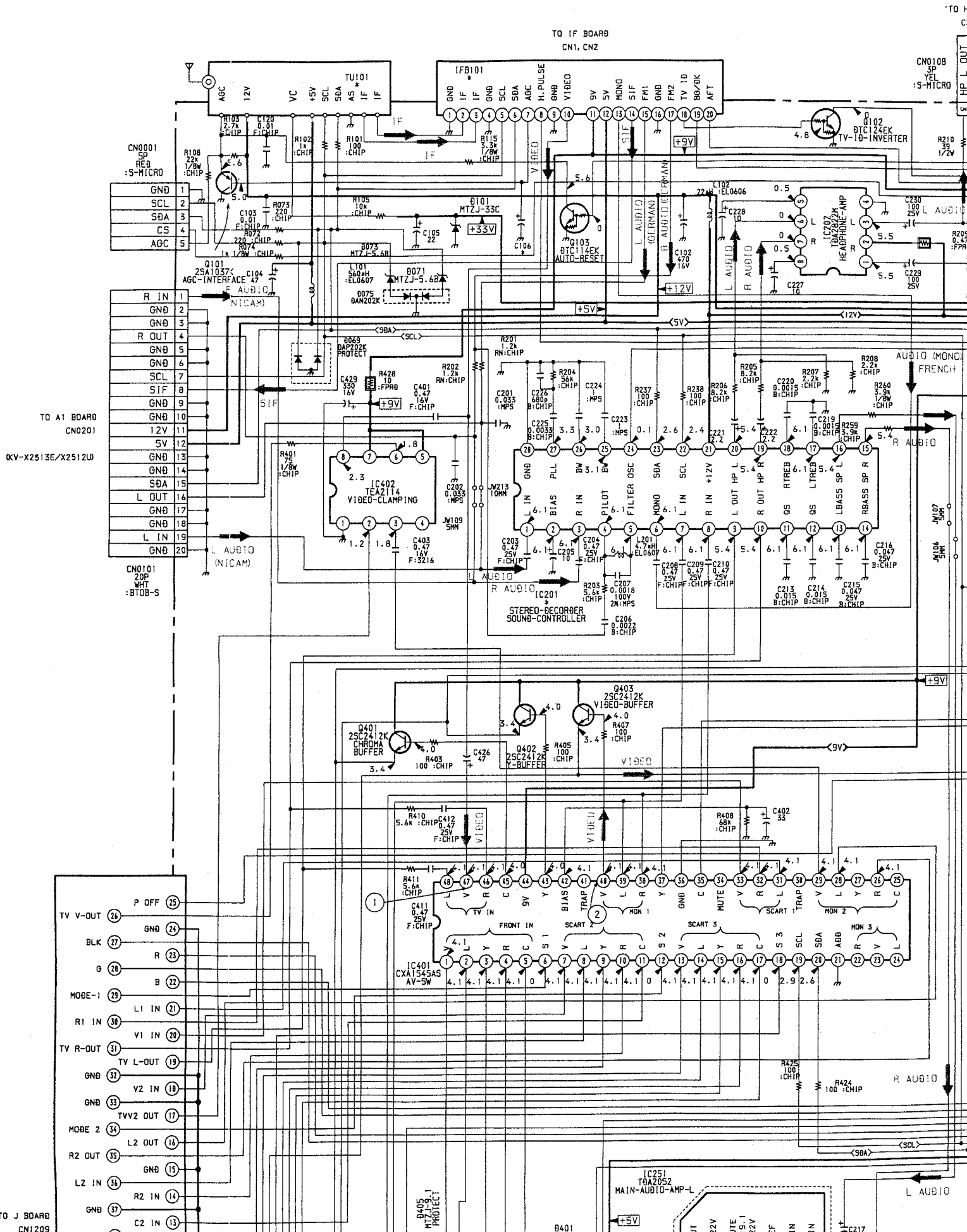
Press the menu button
of the commander to get
into service mode.

Press the menu button
> and press OK

4-4



TO J BOARD
CN1209



TO IF BOARD
CN1, CN2

TO H
CN

CN0108
SP
YEL
S-MICRO

0102
DTIC124EK
TV-ID-INVERTER

CN0001
SP
RED
S-MICRO

GND 1
SCL 2
SBA 3
CS 4
AGC 5

R IN 1
GND 2
GND 3
R OUT 4
GND 5
GND 6
SCL 7
SIF 8
GND 9
GND 10
12V 11
5V 12
GND 13
GND 14
SBA 15
L OUT 16
GND 17
GND 18
L IN 19
GND 20

TO A1 BOARD
CN0201
KV-X2513E/X2512U

CN0101
20P
WHT
BT08-S

AUDIO (MONO)
FRENCH

JW107
SHH

JW106
SHH

+9V

+9V

+9V

+9V

+9V

+9V

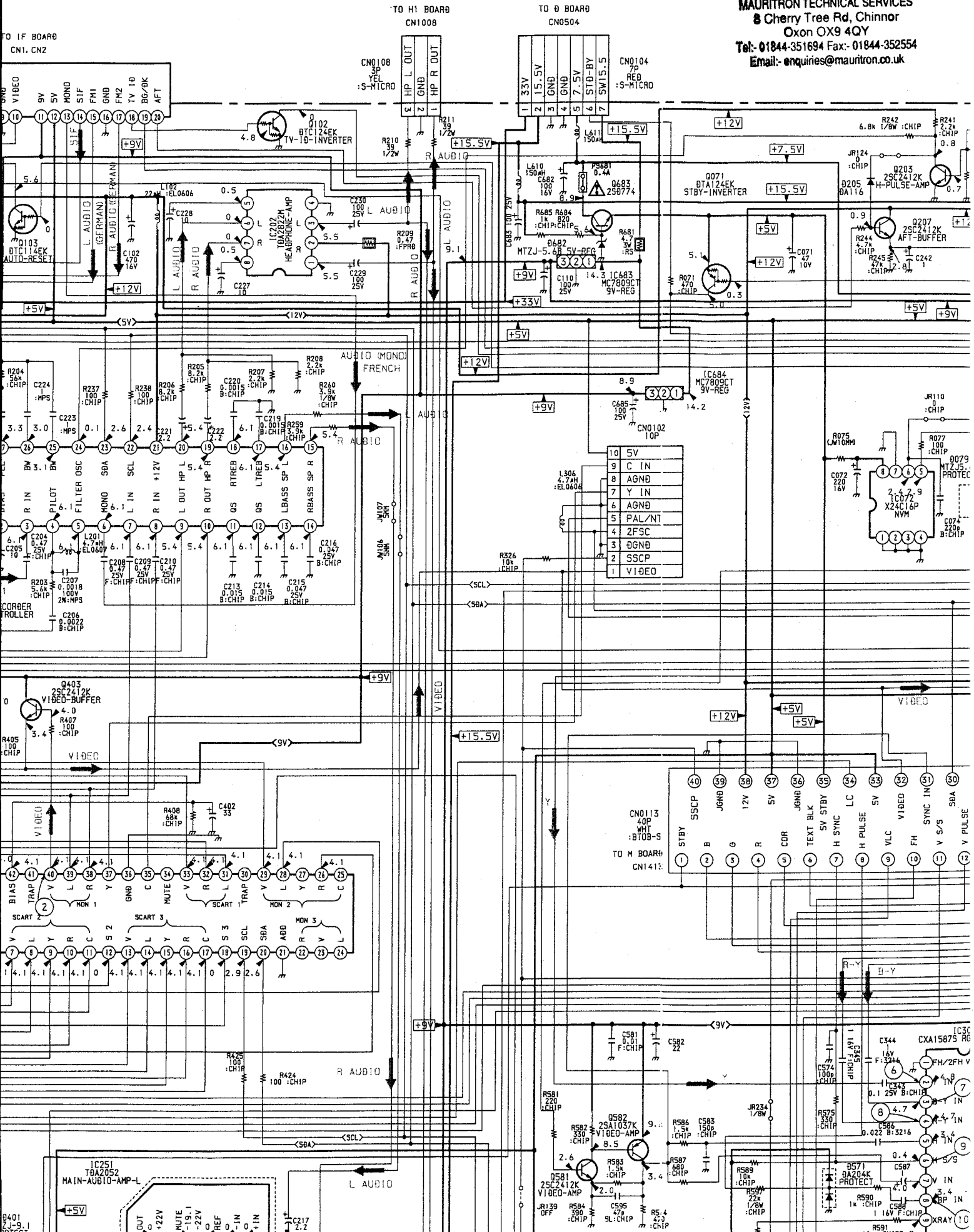
+9V

+9V

TO J BOARD
CN1209

IC251
TA2052
MAIN-AUDIO-AMP-L
+5V
OUT 0
MUTE -19.1
REF 0
-22V 0
-IN
+IN
C217
2.2

For Service Manuals Contact
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TO IF BOARD
CN1, CN2

TO HI BOARD
CN1008

TO 0 BOARD
CN0504

CN0104
7P
REG
:S-MICRO

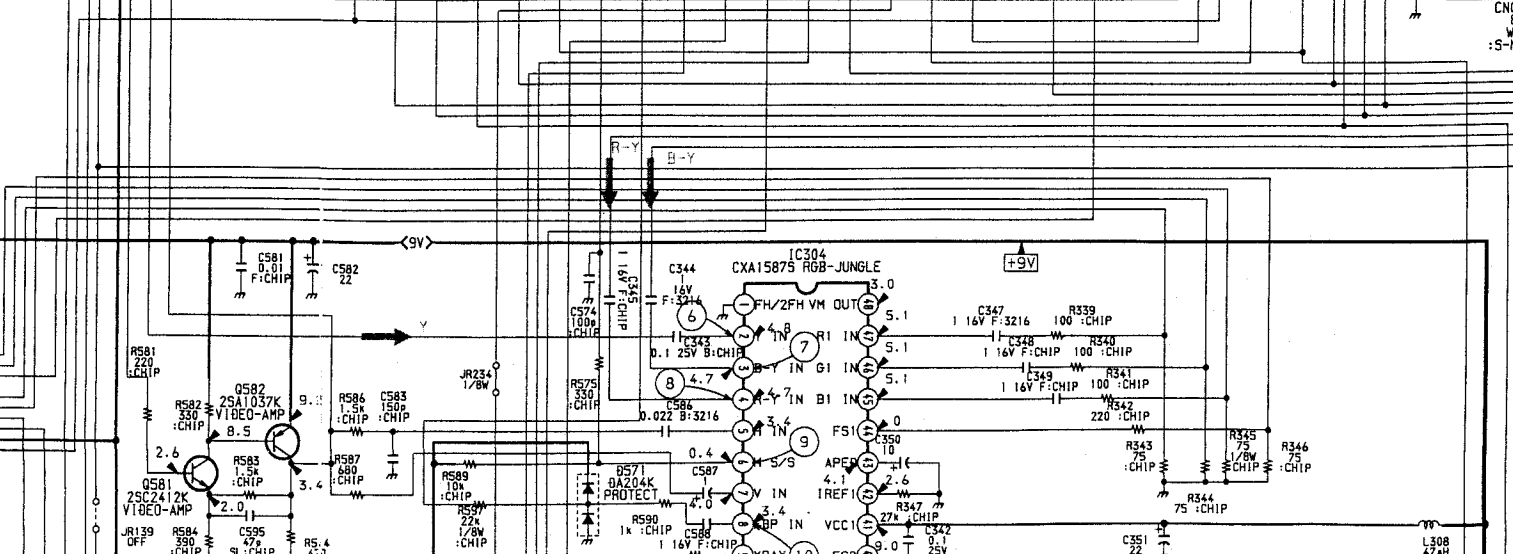
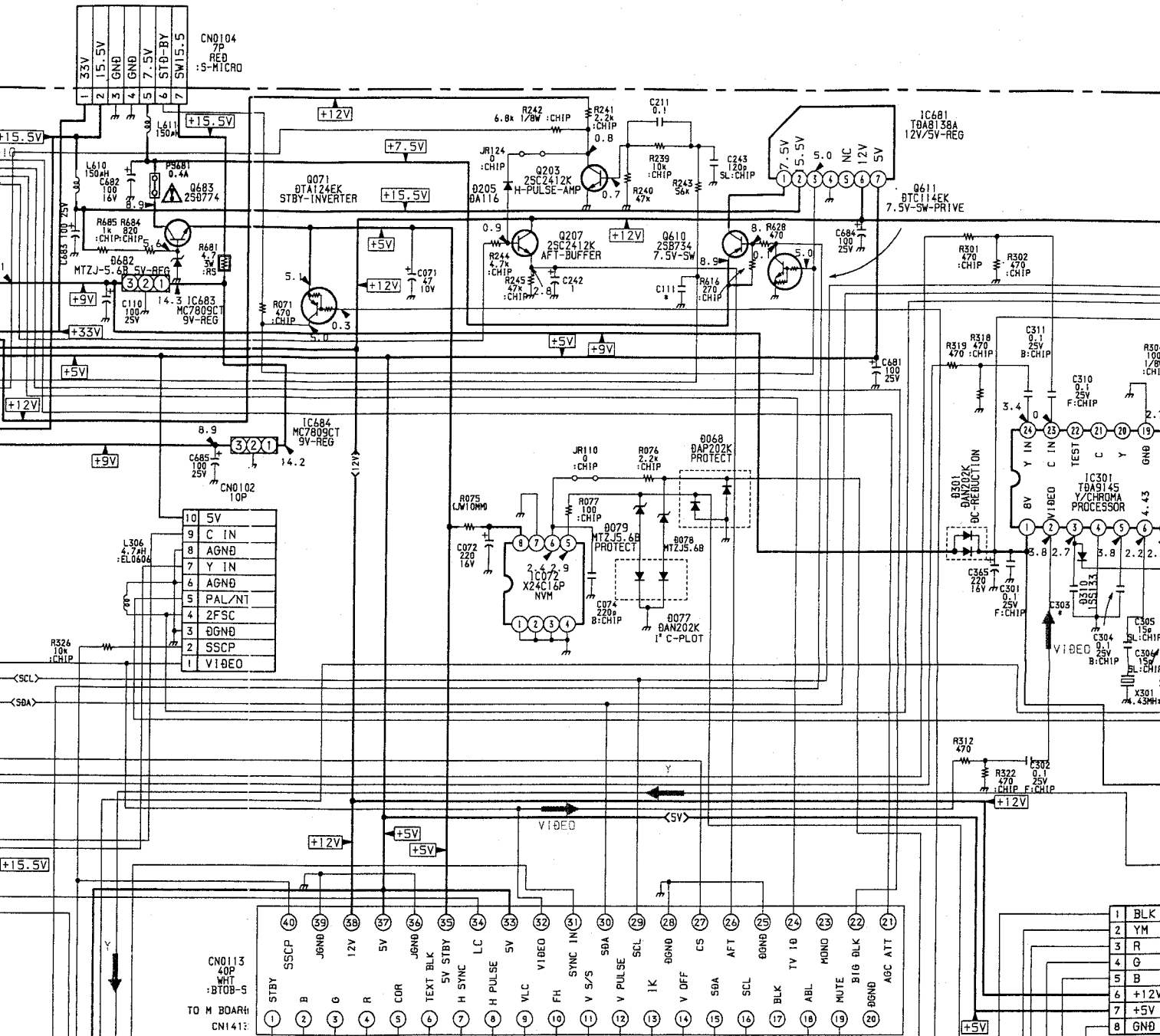
10	5V
9	C IN
8	AGND
7	Y IN
6	AGND
5	PAL/NT
4	2FSC
3	0GND
2	SSCP
1	VIDEO

CN0113
40P
NHT
:BT0B-S
TO M BOARD
CN1413

IC251
TA2052
MAIN-AUDIO-AMP-L

IC30
CXA15875
REG
FH/2FH V

TO B BOARD
CN0504



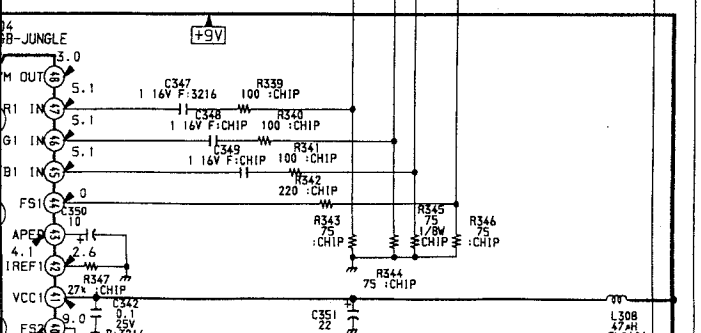
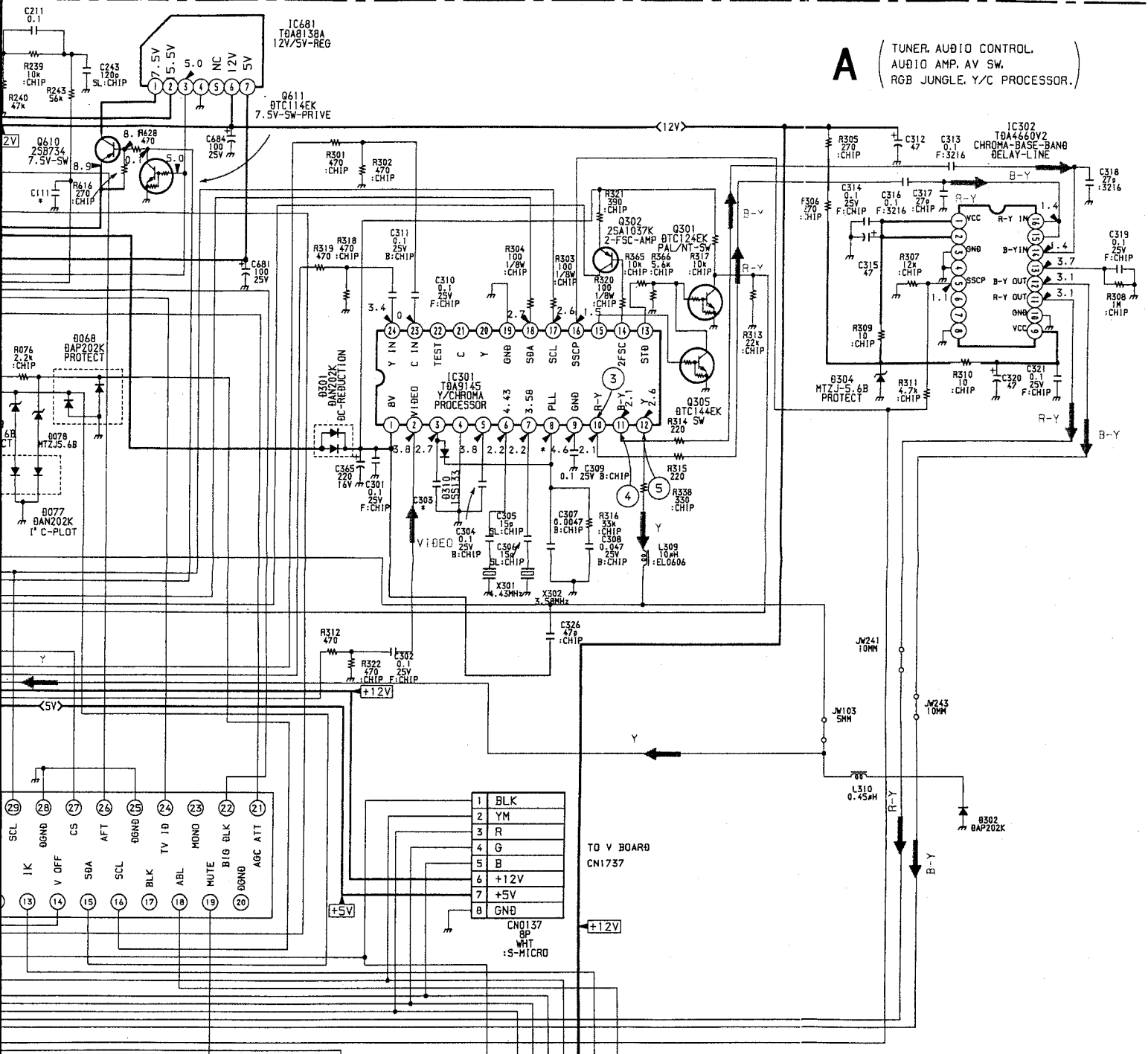
TO M BOARD
CN141:

40	SSCP
39	JONG
38	12V
37	5V
36	JONG BLK
35	TEXT BLK
34	5V STBY
33	H SYNC
32	H PULSE
31	VLC
30	FH
29	V S/S
28	V PULSE
27	1K
26	V OFF
25	SBA
24	SCL
23	CS
22	AFT
21	0V
20	TV 10
19	HONO
18	MUTE
17	BIG DLK
16	ABC ATT
15	0V
14	0V
13	0V
12	0V
11	0V
10	0V
9	0V
8	0V
7	0V
6	0V
5	0V
4	0V
3	0V
2	0V
1	0V

1	BLK
2	YM
3	R
4	G
5	B
6	+12V
7	+5V
8	GND

For Service Manuals Contact
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 Email: enquiries@mauritron.co.uk

A (TUNER, AUDIO CONTROL, AUDIO AMP, AV SW, RGB JUNGLE, Y/C PROCESSOR.)

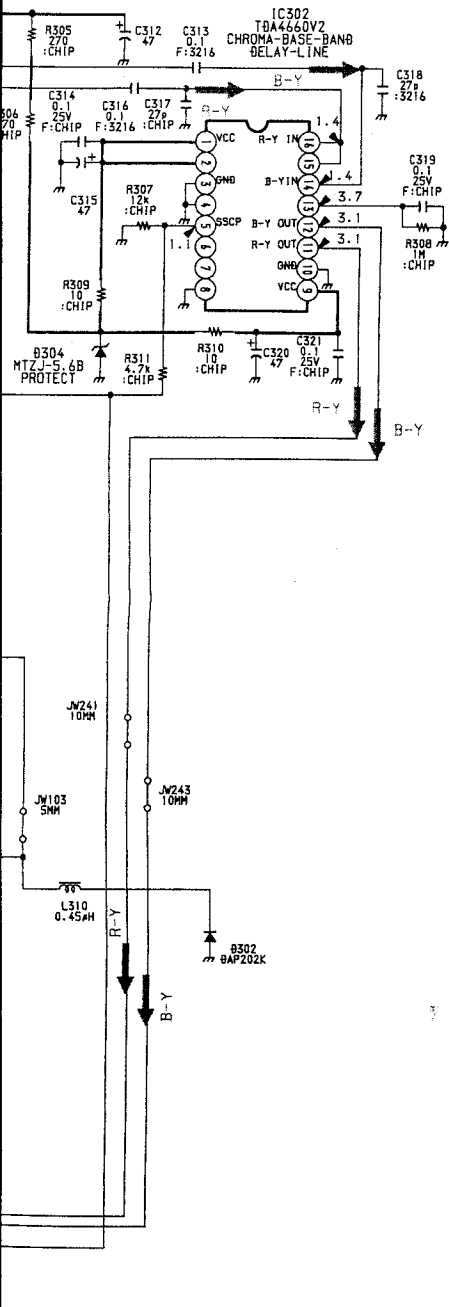


1	BLK
2	YM
3	R
4	G
5	B
6	+12V
7	+5V
8	GND

TO V BOARD
CN1737

CN0137
8P
WHT
:S-MICRO

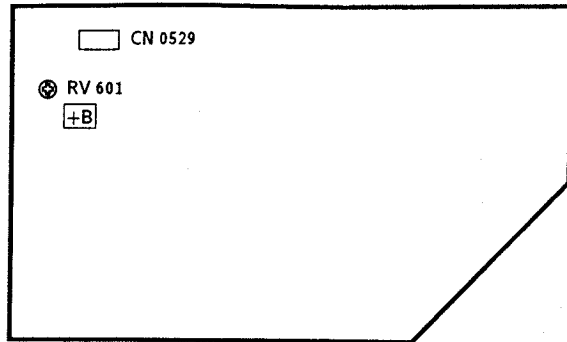
A (TUNER, AUDIO CONTROL,
AUDIO AMP, AV SW,
RGB JUNGLE, Y/C PROCESSOR.)



VOLUME ELECTRICAL ADJUSTMENTS

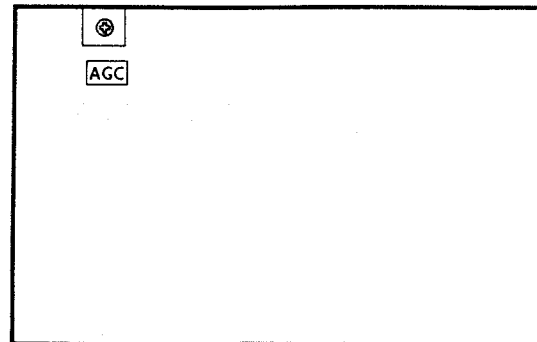
+B (+135 V) ADJUSTMENT (RV 601)

D BOARD



1. Turn on the power of the TV set.
2. Connect a digital multi-meter to ① pin of CN 0529 on D board.
3. Adjust RV 601 on D board to +135 V.

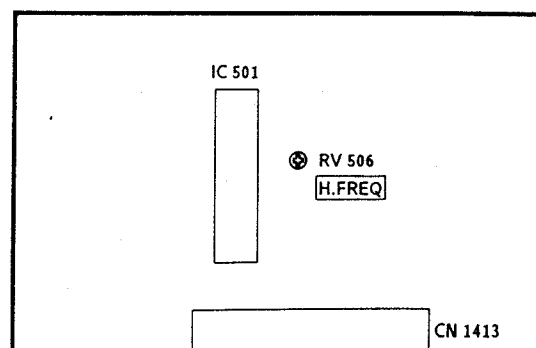
AGC ADJUSTMENT (IF BLOCK)



1. Receive off-air signal.
2. Adjust AGC VR so that there is no snow noise and cross-modulation.
3. Change receiving channel and confirm status.

H.FREQ ADJUSTMENT (RV 506)

M BOARD



1. Connect GND to ② pin of IC 501 on M board.

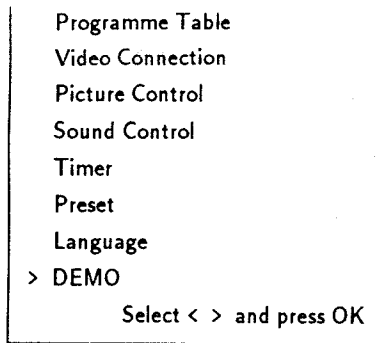


Fig.4-4

4. Press the and buttons of the commander and move > to DEMO.
5. Press button to proceed to the next menu.
6. The menu of fig.4-5 will appear on screen. Select DEVICE corresponding to the adjustment item from the table on next page.

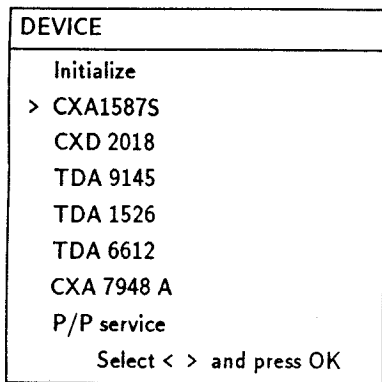


Fig.4-5

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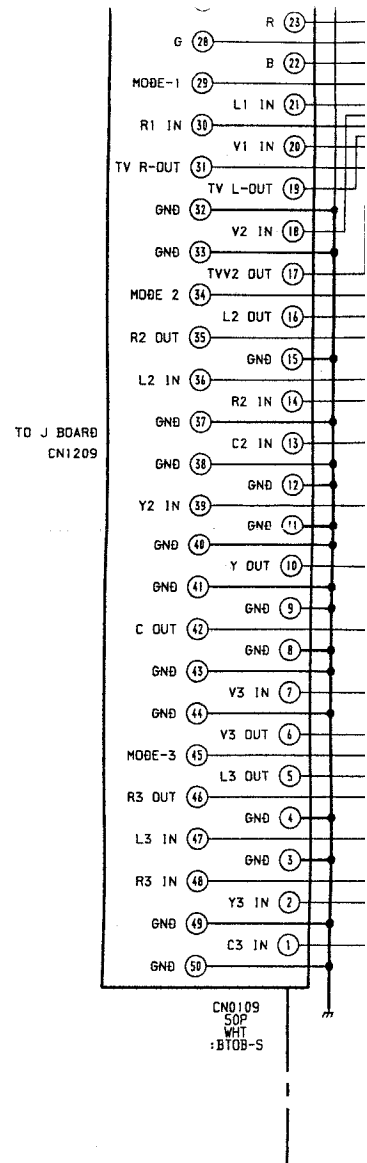
7. If adjustment item is CXA1587S, press the button and move > to CXA1587S.

CXA 1587 S

Item No.	Adjustment item	Data Amount
01	PICTURE	3
02	COLOR	1
03	BRIGHT	1
04	HUE	1
05	SHARPNESS	7
06	RGB PICTURE	3
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
> 09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

8. Press button to get the next selection menu.
9. Press button and move > to the adjustment item and press button.

I
—
J
—
K
—
L
—
M
—
N
—
O



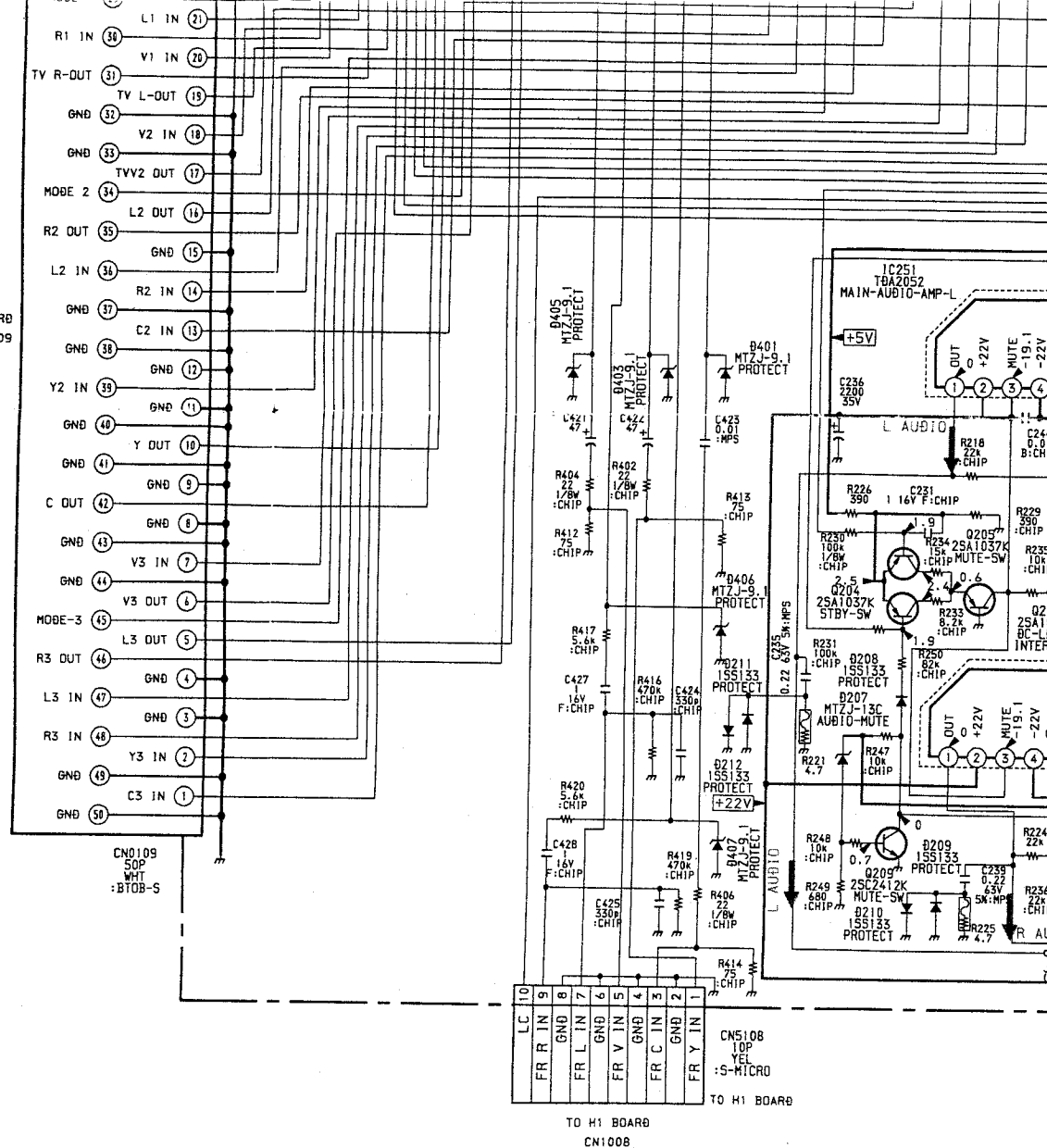
DEFLECTION SYSTEM ADJUSTMENT

1. Enter into service mode and select
2. Select and adjust each item to optimum image.

01	V SIZE
02	V SHIFT
03	S CORRECTION
04	V LINEARITY
05	H SIZE
06	PIN AMP
07	TILT
08	UPPER CORNER
09	LOWER CORNER
10	V BOW
11	ANGLE
12	HV COMP.V
13	HV COMP.H
14	FRAME SHIFT

J
K
L
M
N
O

TO J BOARD
CN1209

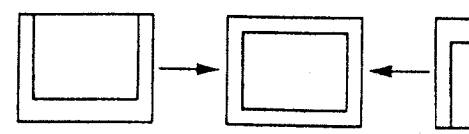


DEFLECTION SYSTEM ADJUSTMENT

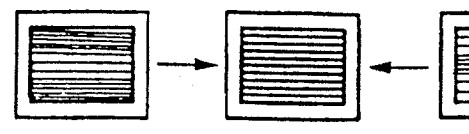
1. Enter into service mode and select CXD 1018.
2. Select and adjust each item in order to get an optimum image.

01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF

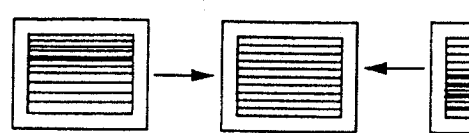
V SHIFT



S CORRECTION

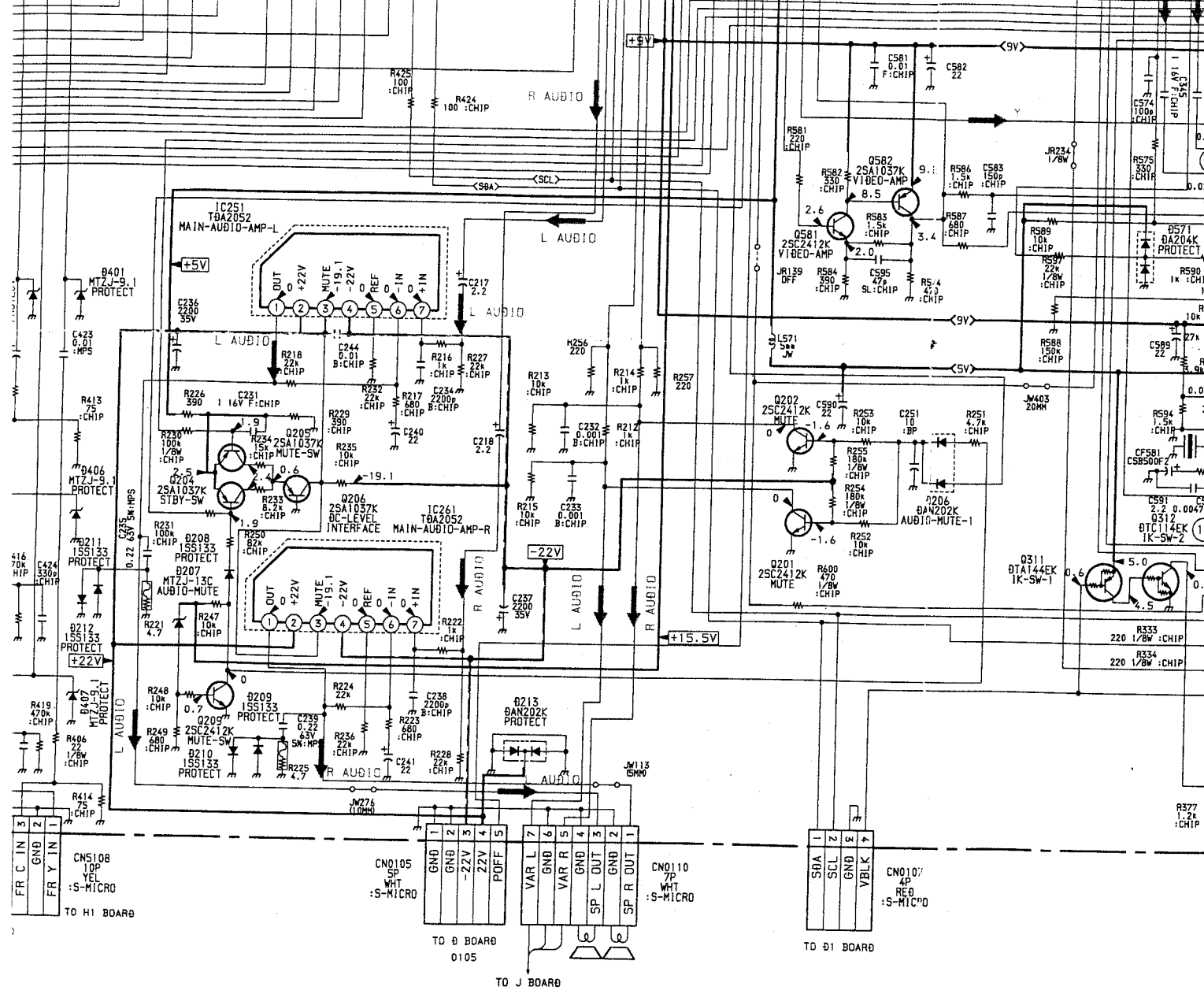


V LINEARITY

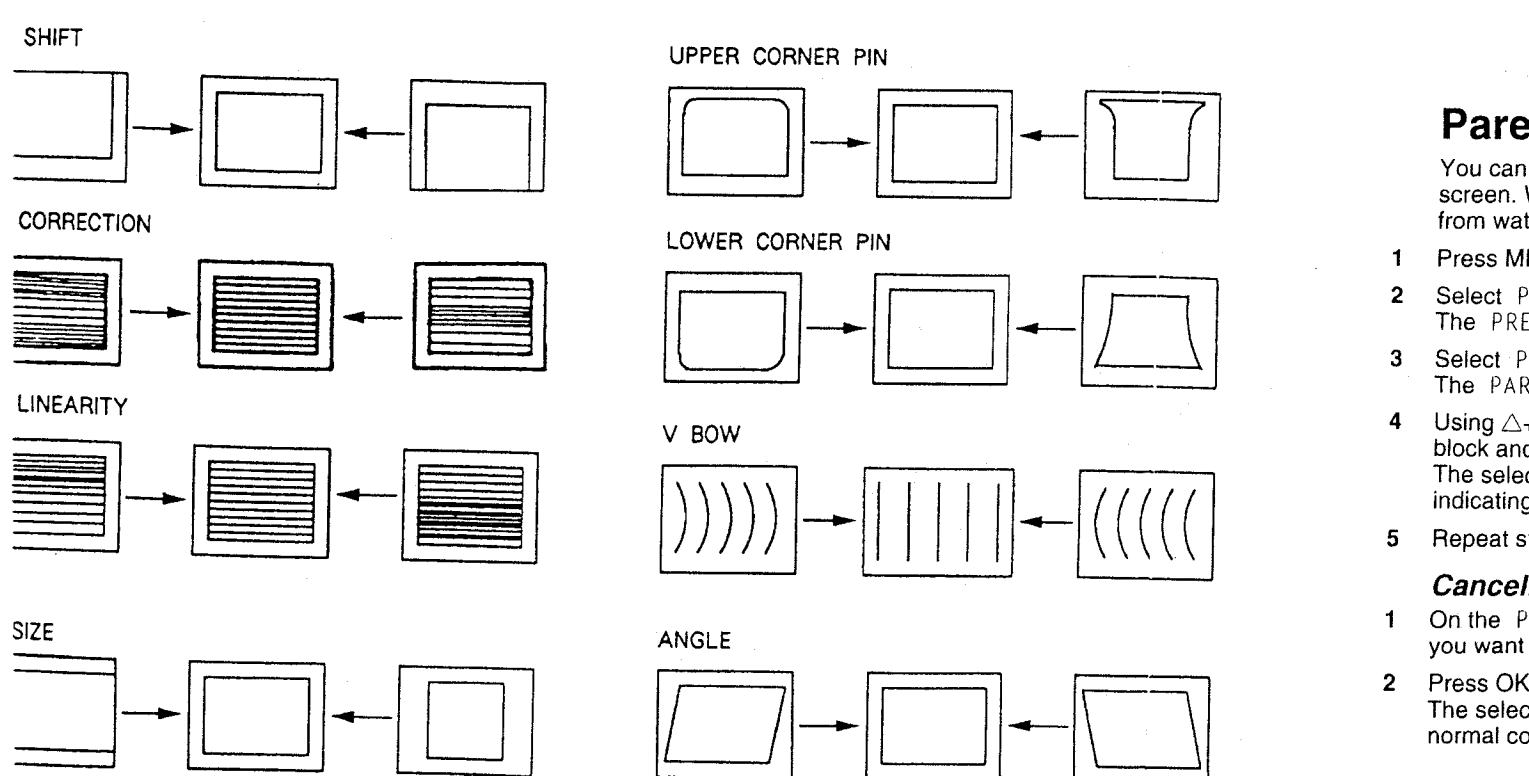


H SIZE

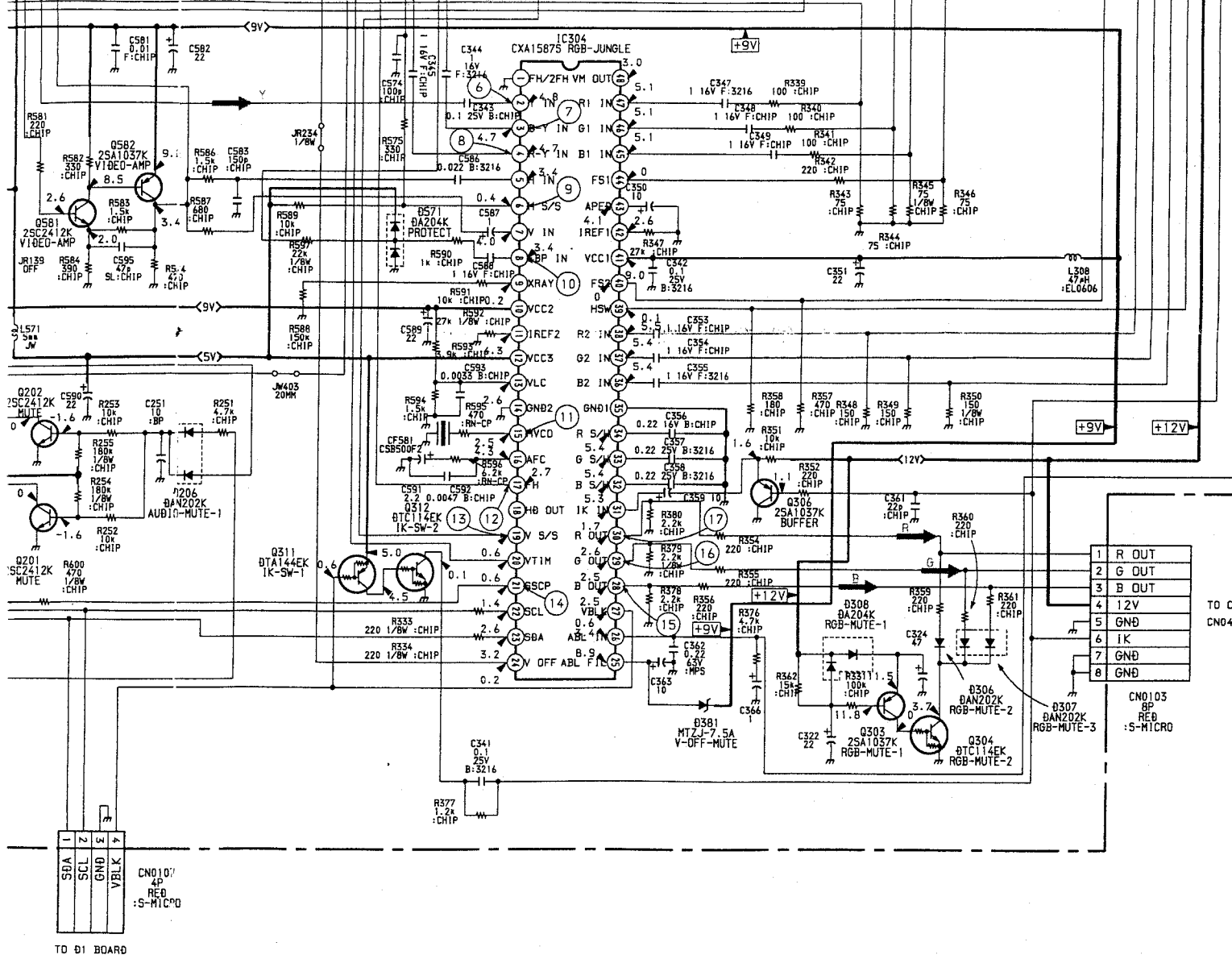




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- Parent**
 You can p
 screen. W
 from watc
- 1 Press ME
 - 2 Select Pr
 The PRES
 - 3 Select Pa
 The PARE
 - 4 Using Δ +
 block and
 The select
 indicating
 - 5 Repeat ste
- Cancelli**
- 1 On the PA
 you want to
 - 2 Press OK.
 The select
 normal col



TO D1 BOARD

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select Preset with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears.
- 3 Select Parental Lock with $\Delta+$ or $\nabla-$ and press OK. The PARENTAL LOCK menu appears. (See Fig. 26.)
- 4 Using $\Delta+$ or $\nabla-$, select the programme position you want to block and press OK. The selected PROG number, CH and LABEL change colour indicating that this programme is now blocked. (See Fig. 27.)
- 5 Repeat step 4 to block other programme positions.

cancelling blocking

- 1 On the PARENTAL LOCK menu, select the programme position you want to unblock with $\Delta+$ or $\nabla-$.
- 2 Press OK. The selected PROG number, CH and LABEL change colour to normal colour indicating that the blocking has been cancelled.

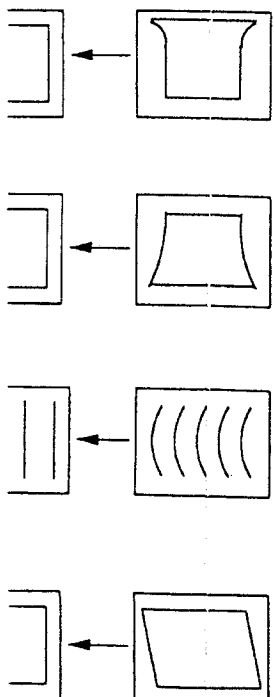
PARENTAL LOCK			
PROG	CH	LABEL	PROG CH LABEL
0	AV1	VHS	8 C38 ---
1	C25	BBC2	9 C39 ---
2	C42	BBC1	10 C40 ---
3	C26	C4	11 C41 ---
4	C34	ITV	12 C42 ---
5	C35	---	13 C43 ---
6	C36	---	14 C44 ---
7	C37	---	15 C45 ---

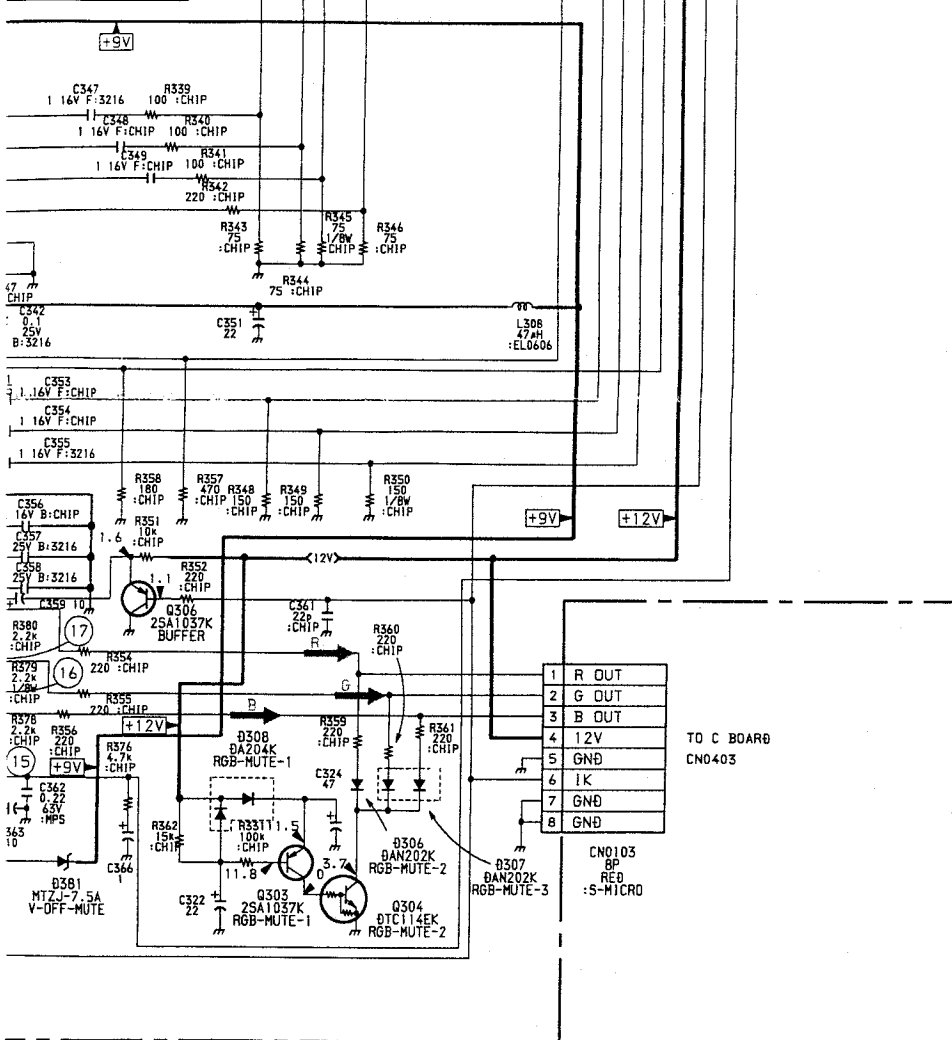
Select Δ and press OK

Fig. 26.

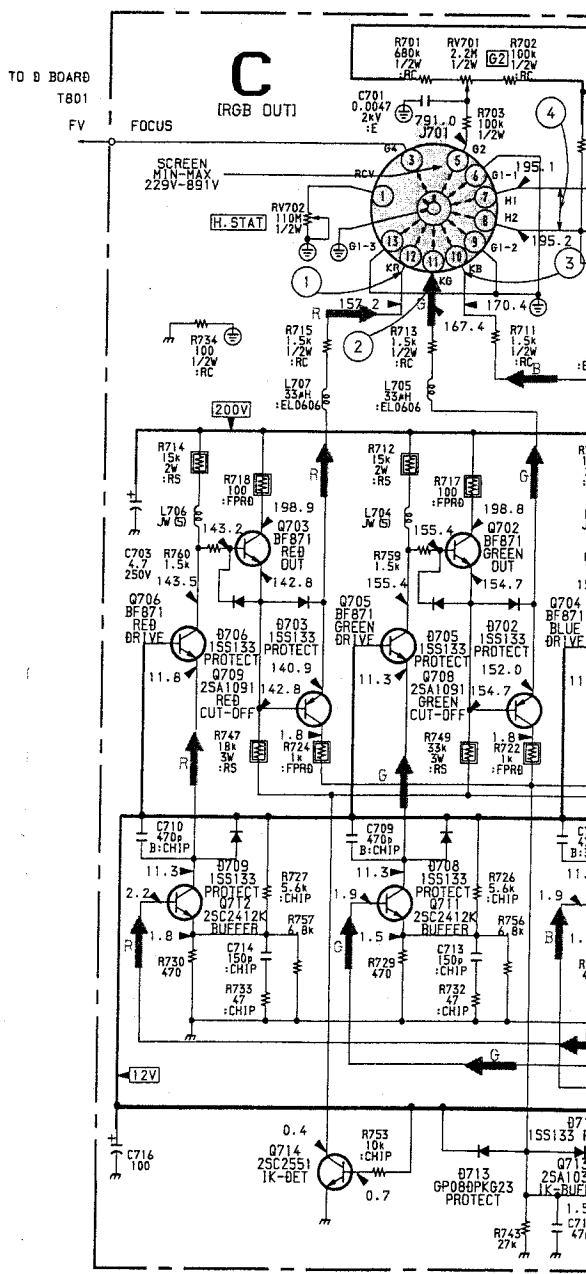
PROG	CH	LABEL	PROG CH LABEL
0	AV1	VHS	8 C38 ---
1	C22	BBC2	9 C39 ---
2	C42	BBC1	10 C40 ---
3	C26	C4	11 C41 ---

Fig. 27.





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roadcasts from appearing on the
 is function to prevent children
 ich you consider unsuitable.

in menu.

- and press OK.

△+ or ▽- and press OK.
 appears. (See Fig. 26.)

rogramme position you want to

H and LABEL change colour
 is now blocked. (See Fig. 27.)

rogramme positions.

u, select the programme position
 ▽-

PARENTAL LOCK			
PROG CH LABEL	PROG CH LABEL	PROG CH LABEL	PROG CH LABEL
0 AV1 VHS	8 C38	---	---
1 C25 BBC2	9 C39	---	---
2 C42 BBC1	10 C40	---	---
3 C26 C4	11 C41	---	---
4 C34 ITV	12 C42	---	---
5 C35	13 C43	---	---
6 C36	14 C44	---	---
7 C37	15 C45	---	---

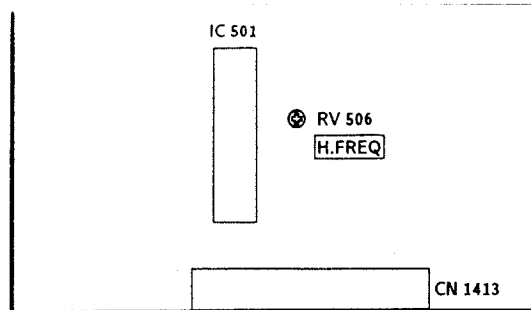
Select and press OK

Fig. 26.

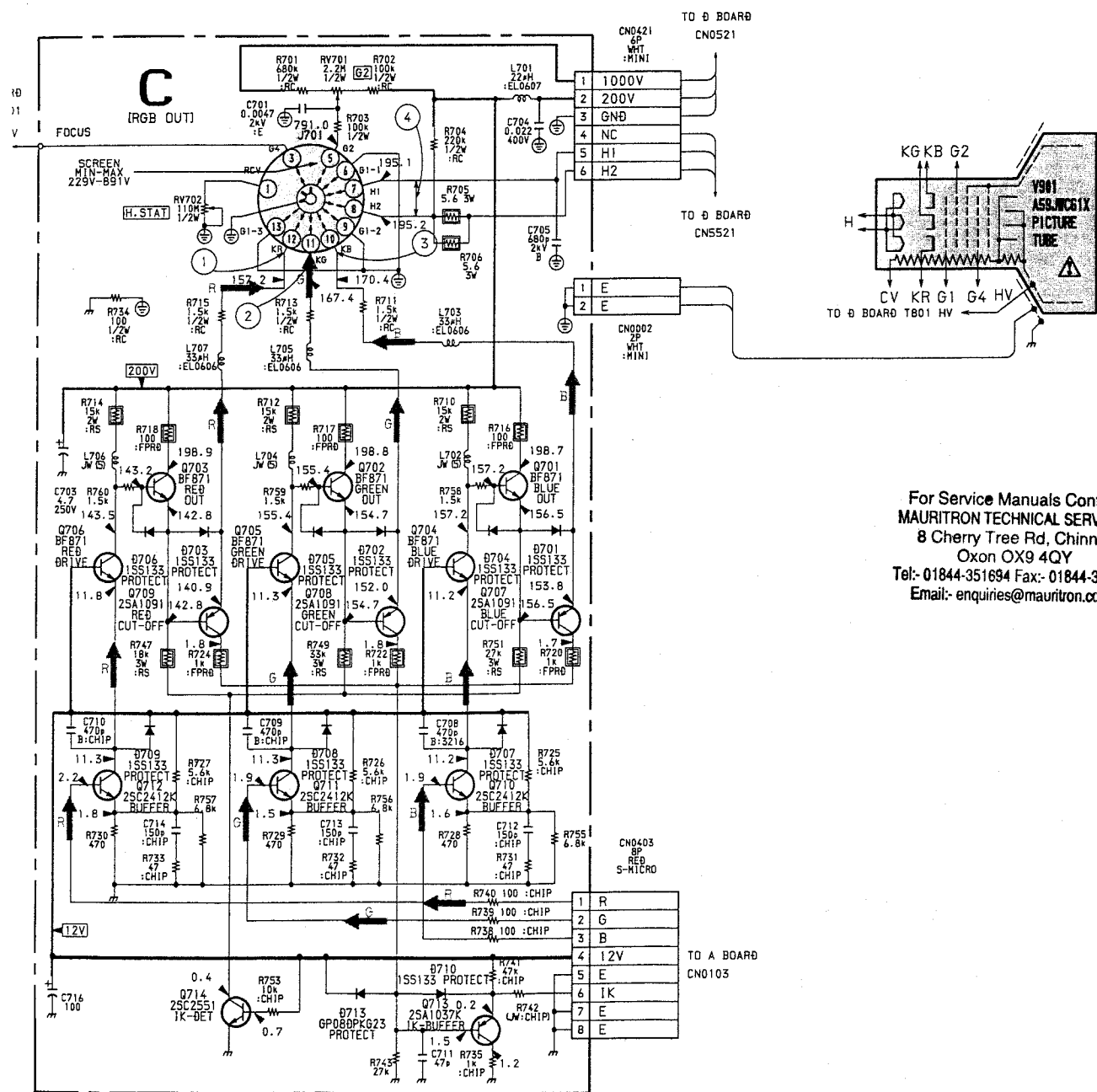
PROG CH LABEL	PROG CH LABEL
0 AV1 VHS	---
1 C22 BBC2	---
2 C42 BBC1	---
3 C26 C4	---

Fig. 27.

H and LABEL change colour to
 blocking has been cancelled.



1. Connect GND to ⑫ pin of IC 501 on M board.
2. Connect a frequency counter to ④ pin of IC 501.
3. Adjust RV 506 on M board to 15,625+100 Hz.
4. Remove ⑫ pin of IC 501 from GND.



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4. Press the and buttons of the commander and move > to DEMO.
5. Press button to proceed to the next menu.
6. The menu of fig.4-5 will appear on screen. Select DEVICE corresponding to the adjustment item from the table on next page.

DEVICE
Initialize
> CXA1587S
CXD 2018
TDA 9145
TDA 1526
TDA 6612
CXA 7948 A
P/P service
Select < > and press OK

Fig.4-5

7. If adjustment item is CXA1587S, press the button and move > to CXA1587S.

CXA 1587 S

Item No.	Adjustment item	Data Amount
01	PICTURE	3
02	COLOR	1
03	BRIGHT	1
04	HUE	1
05	SHARPNESS	7
06	RGB PICTURE	3
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
> 09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

8. Press button to get the next selection menu.
9. Press button and move > to the adjustment item and press button.
10. Press the and buttons to change the data in order to comply each standard.
11. Press button to write data.
12. Turn off the power to quit service mode when completing the adjustment.

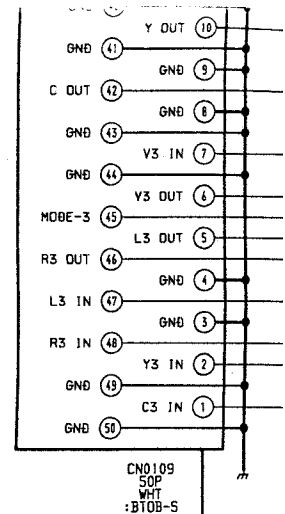
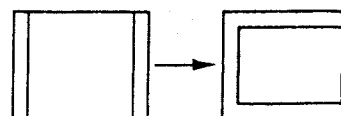
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DEFLECTION SYSTEM ADJUST

1. Enter into service mode and s
2. Select and adjust each ite optimum image.

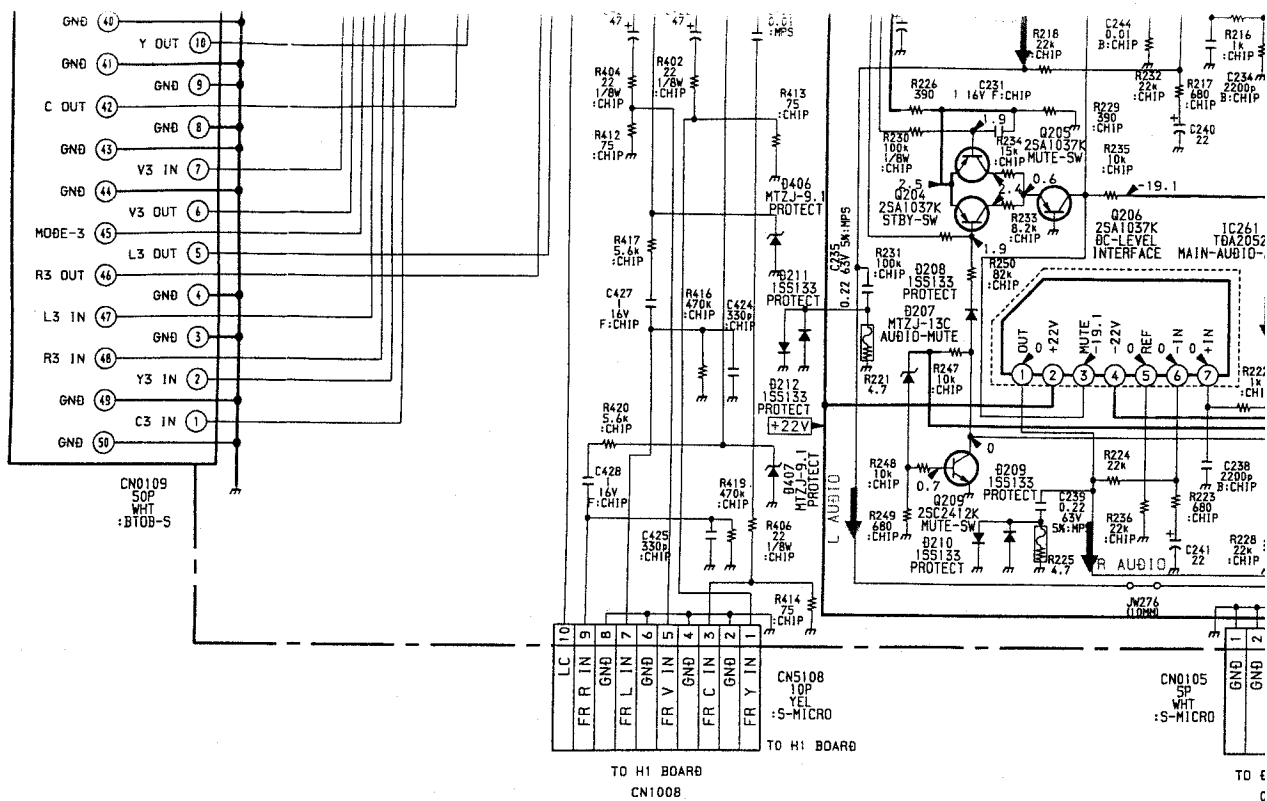
01	V SIZE
02	V SHIFT
03	S CORRECTION
04	V LINEARITY
05	H SIZE
06	PIN AMP
07	TILT
08	UPPER CORNER
09	LOWER CORNER
10	V BOW
11	ANGLE
12	HV COMP.V
13	HV COMP.H
14	FRAME SHIFT
15	FREE RUN 60 Hz
16	SYSTEM 60 Hz
17	ASPECT WIDE
18	DOUBLE SCAM
19	NON INTERLACE
20	H SHIFT
21	N/S CORRECTION

V SIZE



L
M
N
O

L
M
N
O

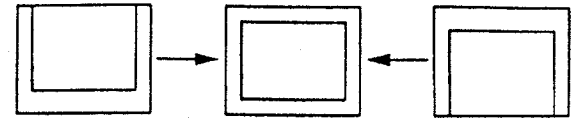


DEFLECTION SYSTEM ADJUSTMENT

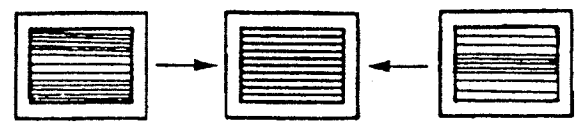
1. Enter into service mode and select CXD 2018.
2. Select and adjust each item in order to get an optimum image.

01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAM	OFF
19	NON INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	ADJ.

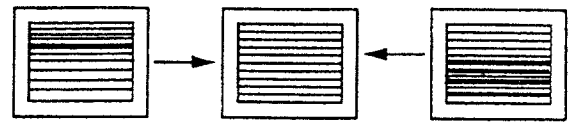
V SHIFT



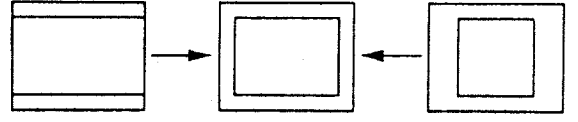
S CORRECTION



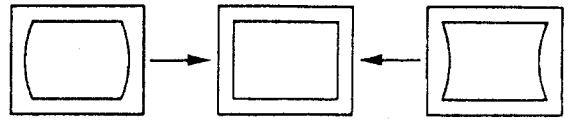
V LINEARITY



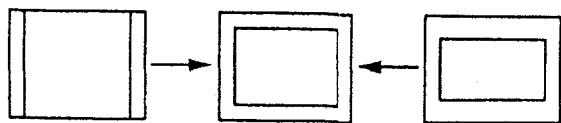
H SIZE



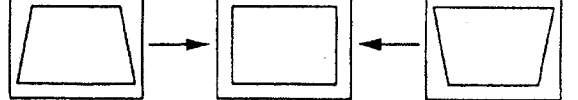
PIN AMP

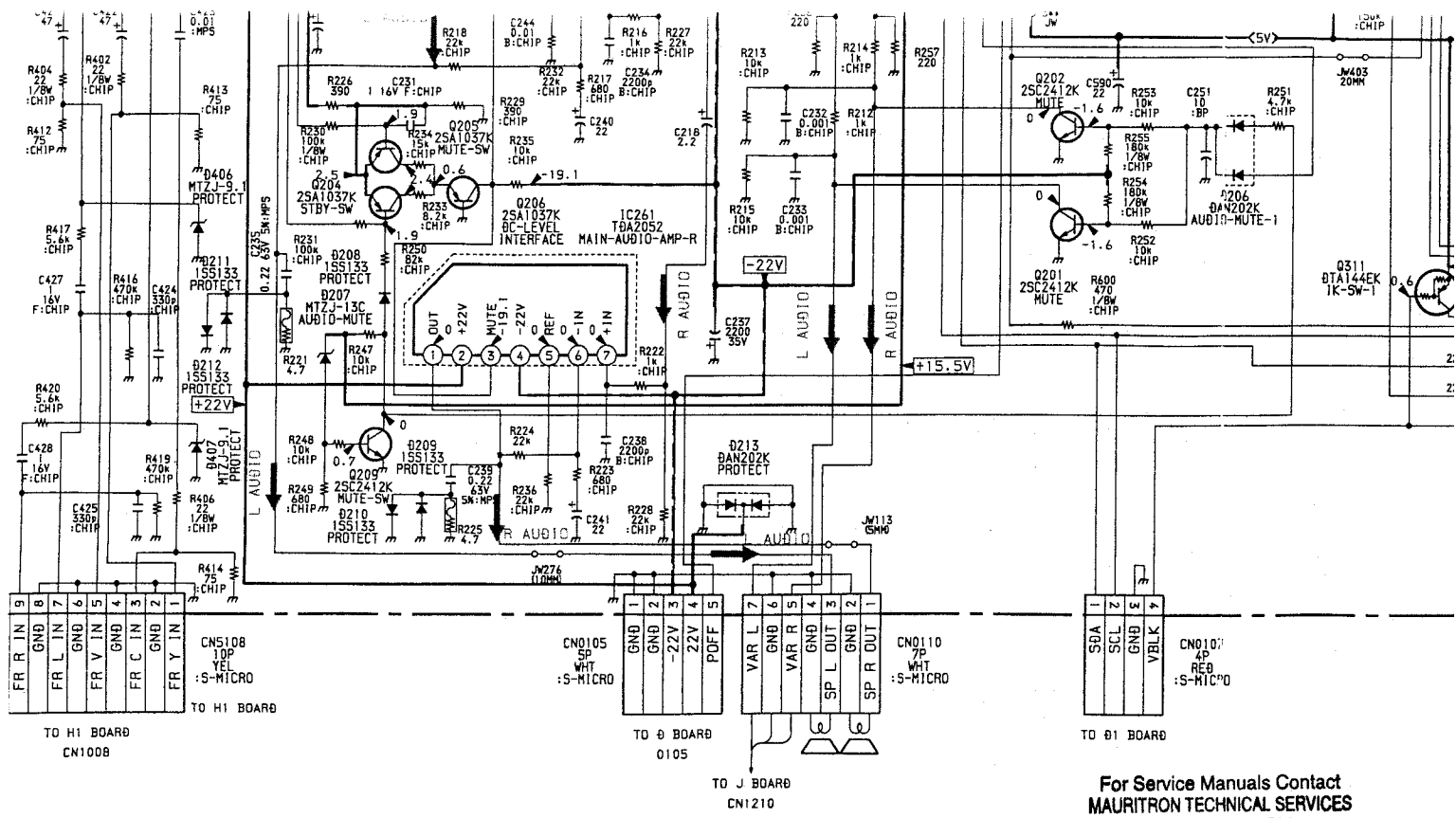


V SIZE



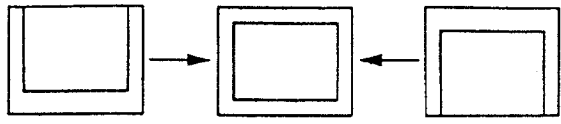
TILT



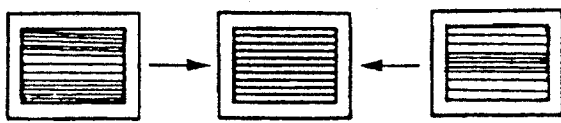


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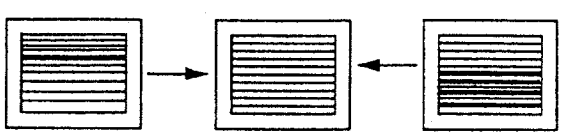
V SHIFT



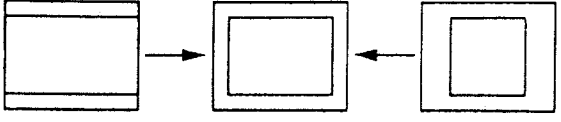
S CORRECTION



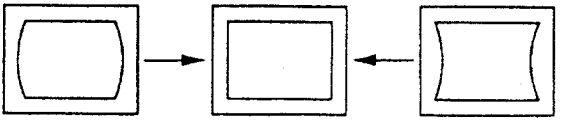
V LINEARITY



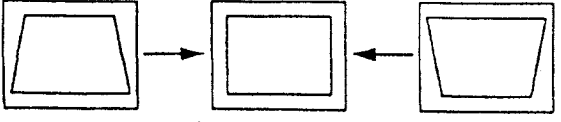
H SIZE



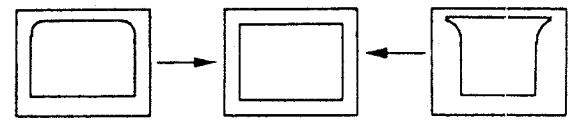
PIN AMP



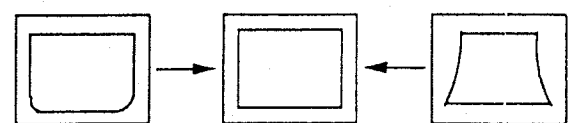
TILT



UPPER CORNER PIN



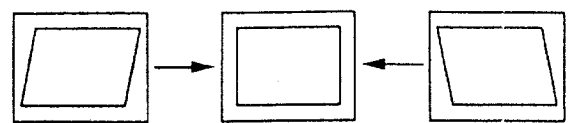
LOWER CORNER PIN



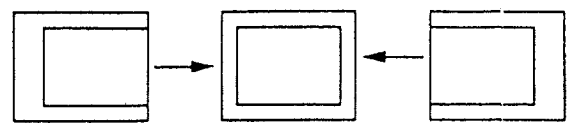
V BOW



ANGLE

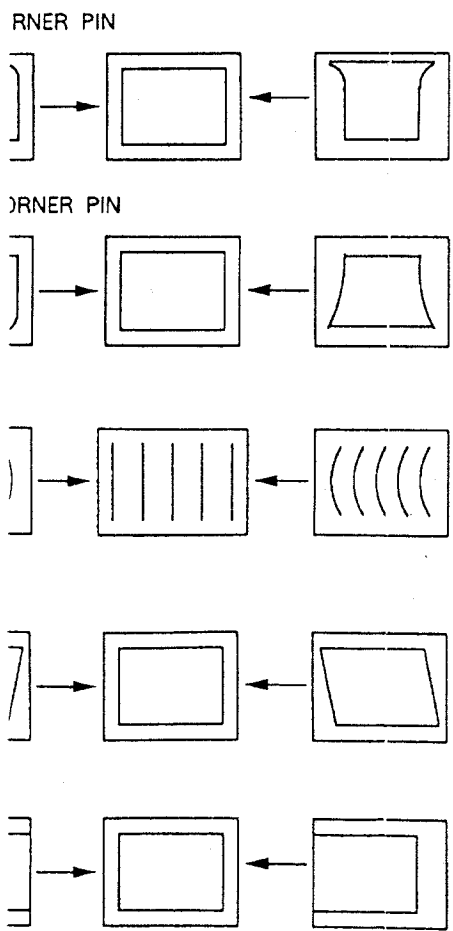
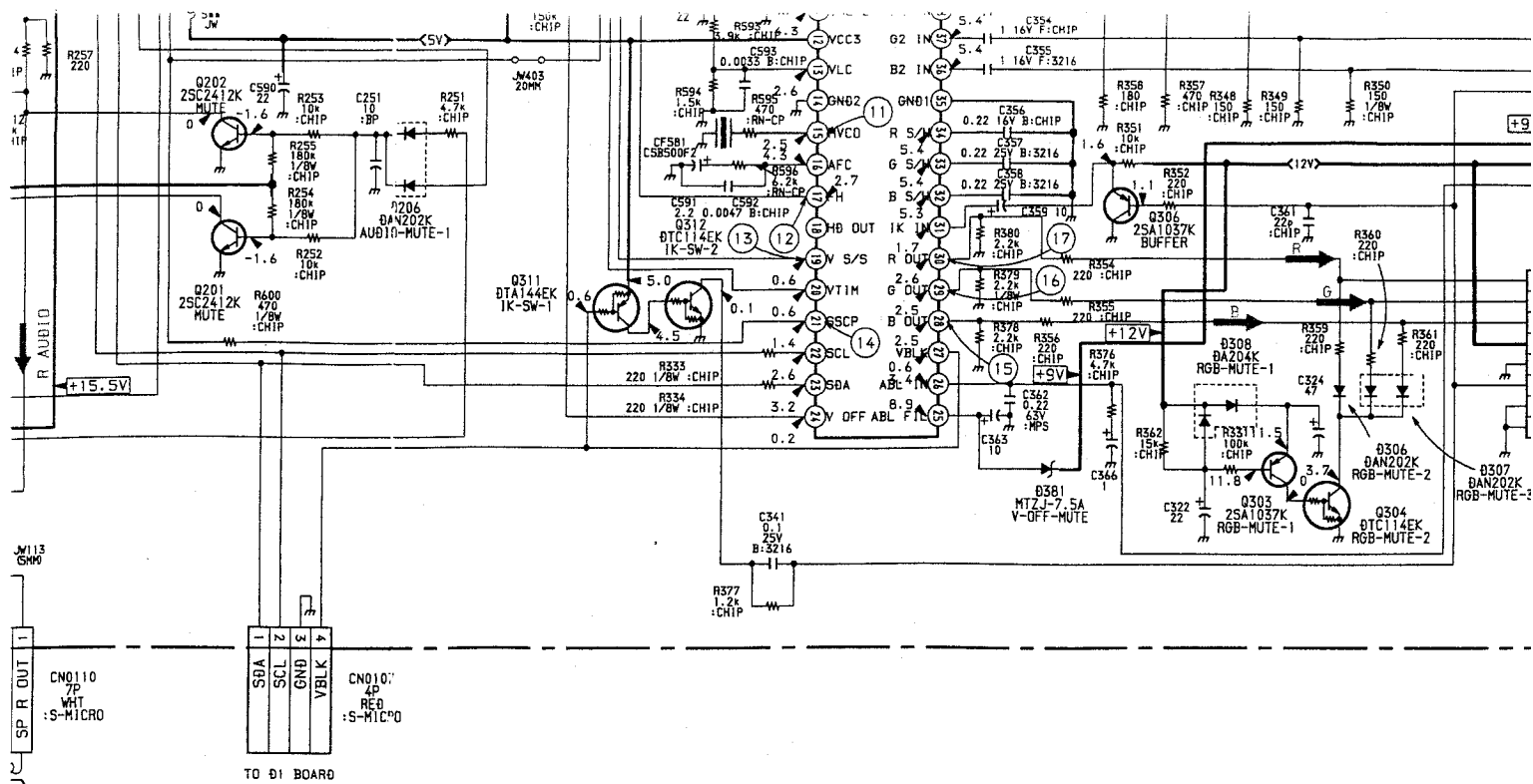


H SHIFT



3. Press **OK** button to write the data.

If menu display may disturb the adjustment press **X** to clear, to resume it, press **X** again.



Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select Preset with Δ + or ∇ - and press OK. The PRESET menu appears.
- 3 Select Parental Lock with Δ + or ∇ - and press OK. The PARENTAL LOCK menu appears. (See Fig. 26.)
- 4 Using Δ + or ∇ -, select the programme position you want to block and press OK. The selected PROG number, CH and LABEL change colour indicating that this programme is now blocked. (See Fig. 27.)
- 5 Repeat step 4 to block other programme positions.

Cancelling blocking

- 1 On the PARENTAL LOCK menu, select the programme position you want to unblock with Δ + or ∇ -.
- 2 Press OK. The selected PROG number, CH and LABEL change colour to normal colour indicating that the blocking has been cancelled.

PARENTAL LOCK			
PROG	CH	LABEL	PROG
0	AV1	VHS	8
1	C25	BBC2	9
2	C42	BBC1	10
3	C26	C4	11
4	C34	ITV	12
5	C35	---	13
6	C36	---	14
7	C37	---	15

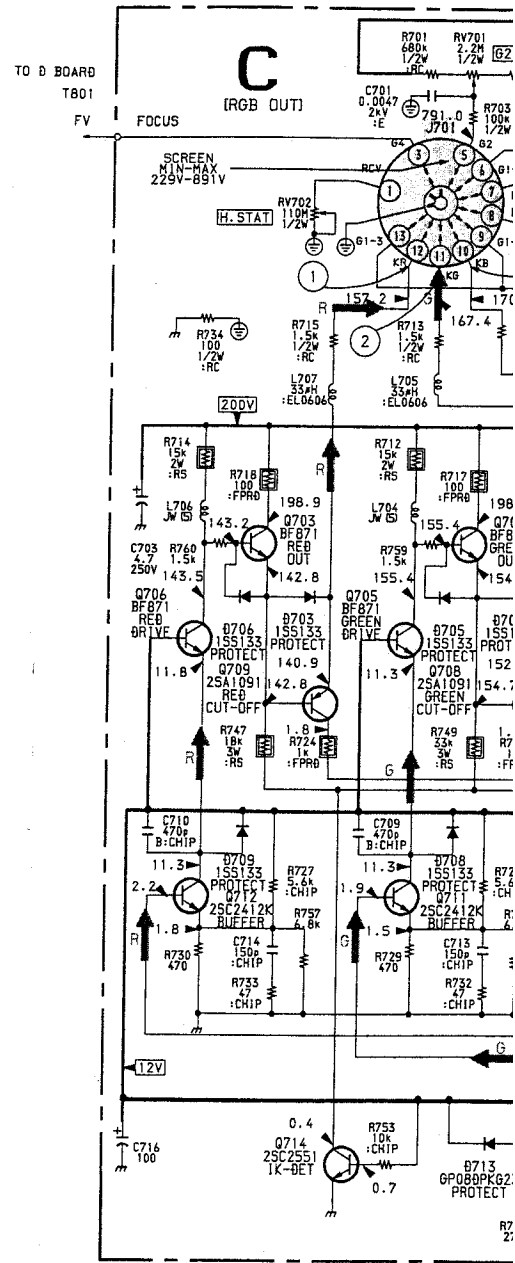
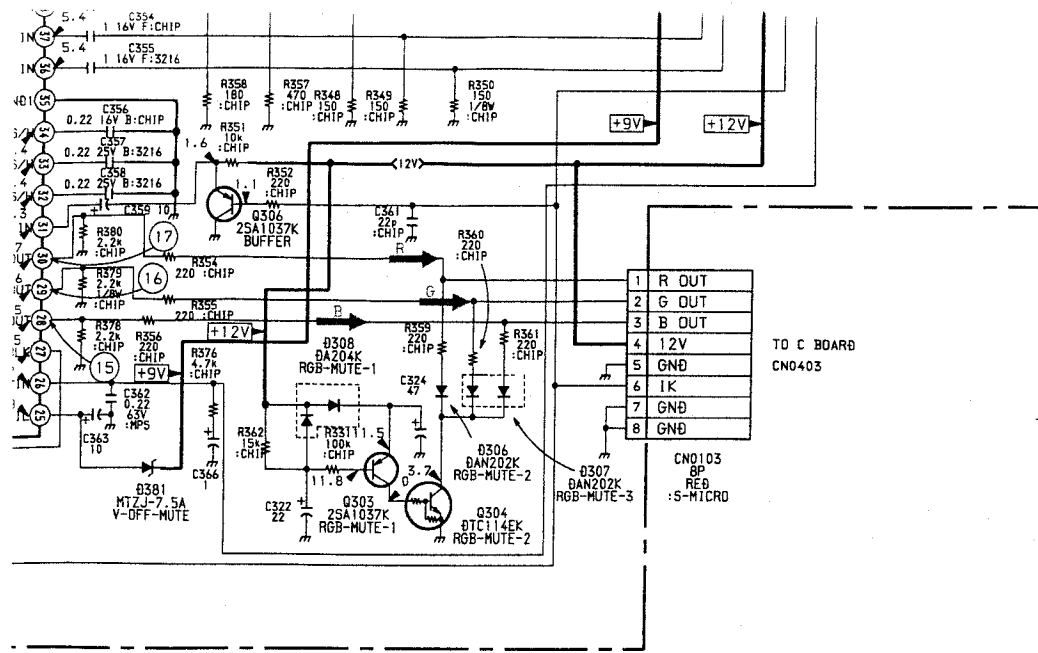
Select Δ ∇

Fig. 26.

PARENTAL LOCK			
PROG	CH	LABEL	PROG
0	AV1	VHS	8
1	C22	BBC2	9
2	C42	BBC1	10
3	C26	C4	11

Fig. 27.

button to write the data.
 may disturb the adjustment press \otimes to
 ne it, press \otimes again.



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irable broadcasts from appearing on the
 u use this function to prevent children
 mes which you consider unsuitable.

PARENTAL LOCK			
PROG CH LABEL	PROG CH LABEL	PROG CH LABEL	PROG CH LABEL
0 AV1 VHS	8 C38	---	---
1 C25 BBC2	9 C39	---	---
2 C42 BBC1	10 C40	---	---
3 C26 C4	11 C41	---	---
4 C34 ITV	12 C42	---	---
5 C35	13 C43	---	---
6 C36	14 C44	---	---
7 C37	15 C45	---	---

Select **OK** and press **OK**

Fig. 26.

the main menu.
 + or - and press OK.
 appears.
 k with + or - and press OK.
 menu appears. (See Fig. 26.)

PROG CH LABEL	PROG CH LABEL
0 AV1 VHS	
1 C22 BBC2	
2 C42 BBC1	
3 C26 C4	

Fig. 27.

the programme position you want to
 mber, CH and LABEL change colour
 ramme is now blocked. (See Fig. 27.)
 other programme positions.

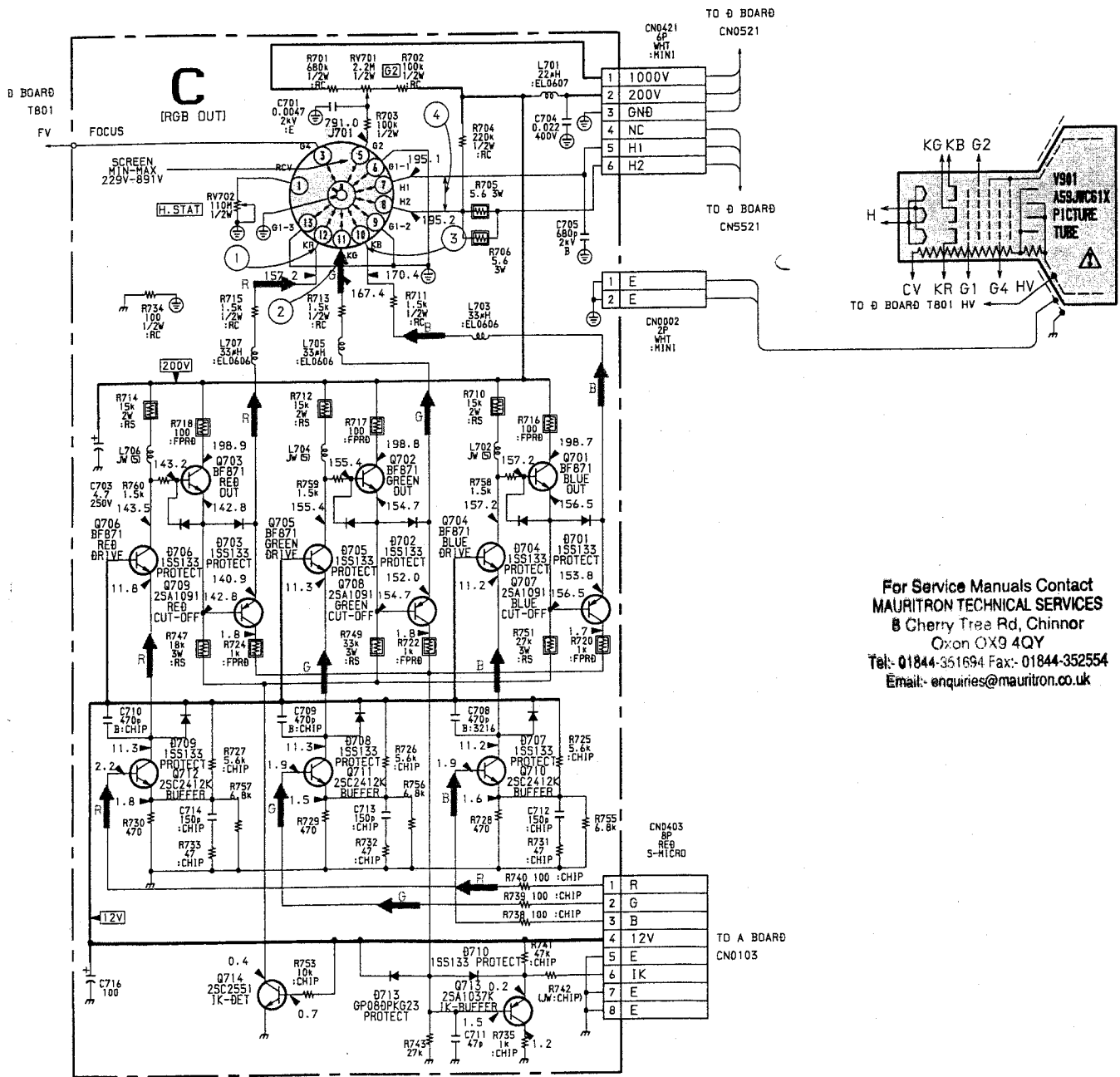
g
 K menu, select the programme position
 h + or -.

mber, CH and LABEL change colour to
 ; that the blocking has been cancelled.



3. Adjust RV 506 on M board to 15,625+100 Hz.

4. Remove ⑫ pin of IC 501 from GND.



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