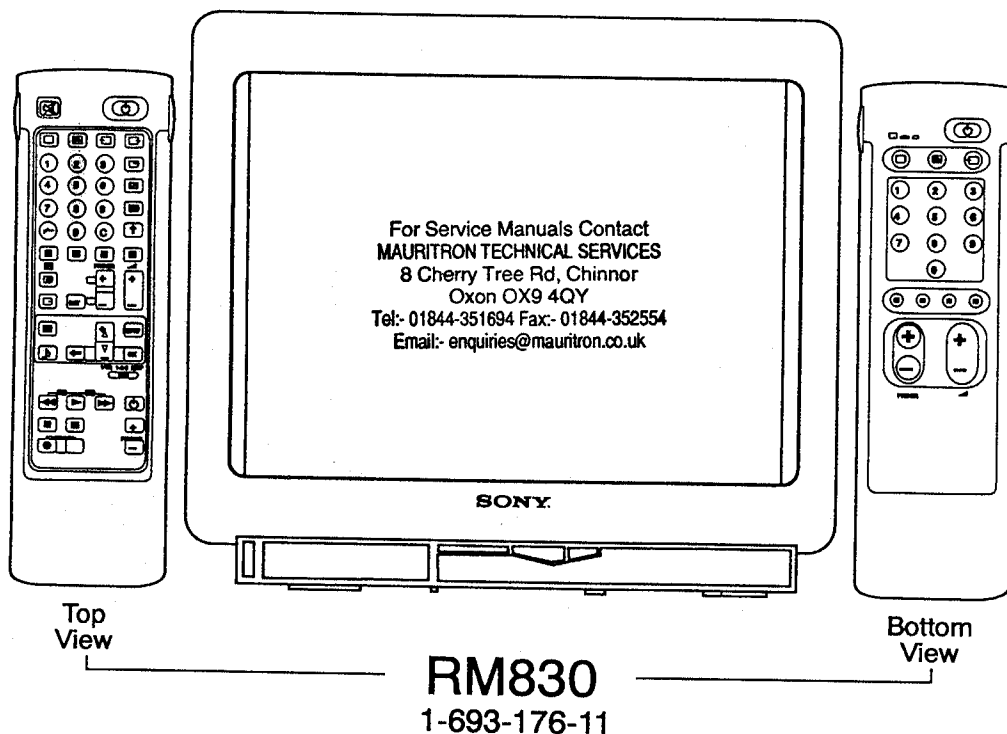


Model Chassis No.
SONY AE - 2
 KV-X2162 KV-X2562 KV-X2962



Homeseerve

Product Type: Television



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

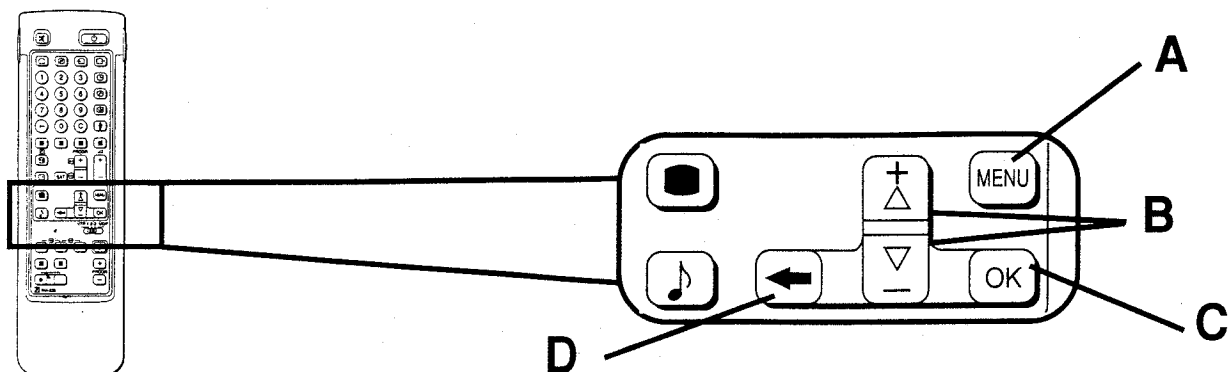
MODEL	KV-X2162	KV-X2562	KV-X2962
POWER CONSUMPTION	124W	159W	175W
WEIGHT	26.5 Kg	37 Kg	52 Kg
DIMENSIONS W x H x D	512 x 449 - x 456mm	575 x 488 - x 487mm	656 x 560 - x 518mm

Service Information

TEUKR Part No. TP32012

1670

— BASIC TUNING GUIDE —


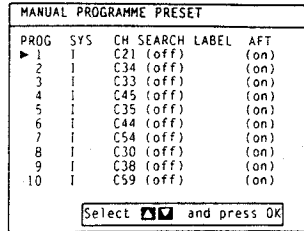
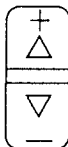
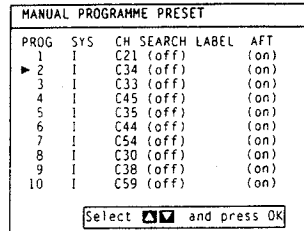

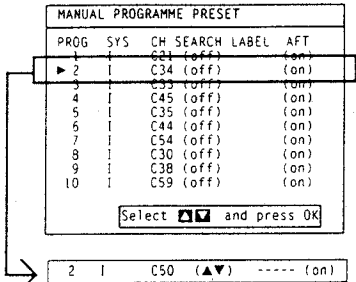
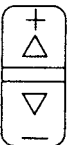

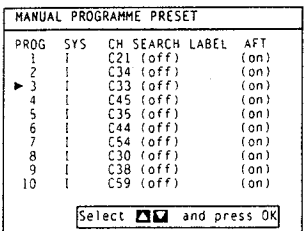



NOTES DURING THE TUNING OPERATION: IF THE MENU DISAPPEARS FROM THE TELEVISION SCREEN, RESTART FROM STEP ONE.

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

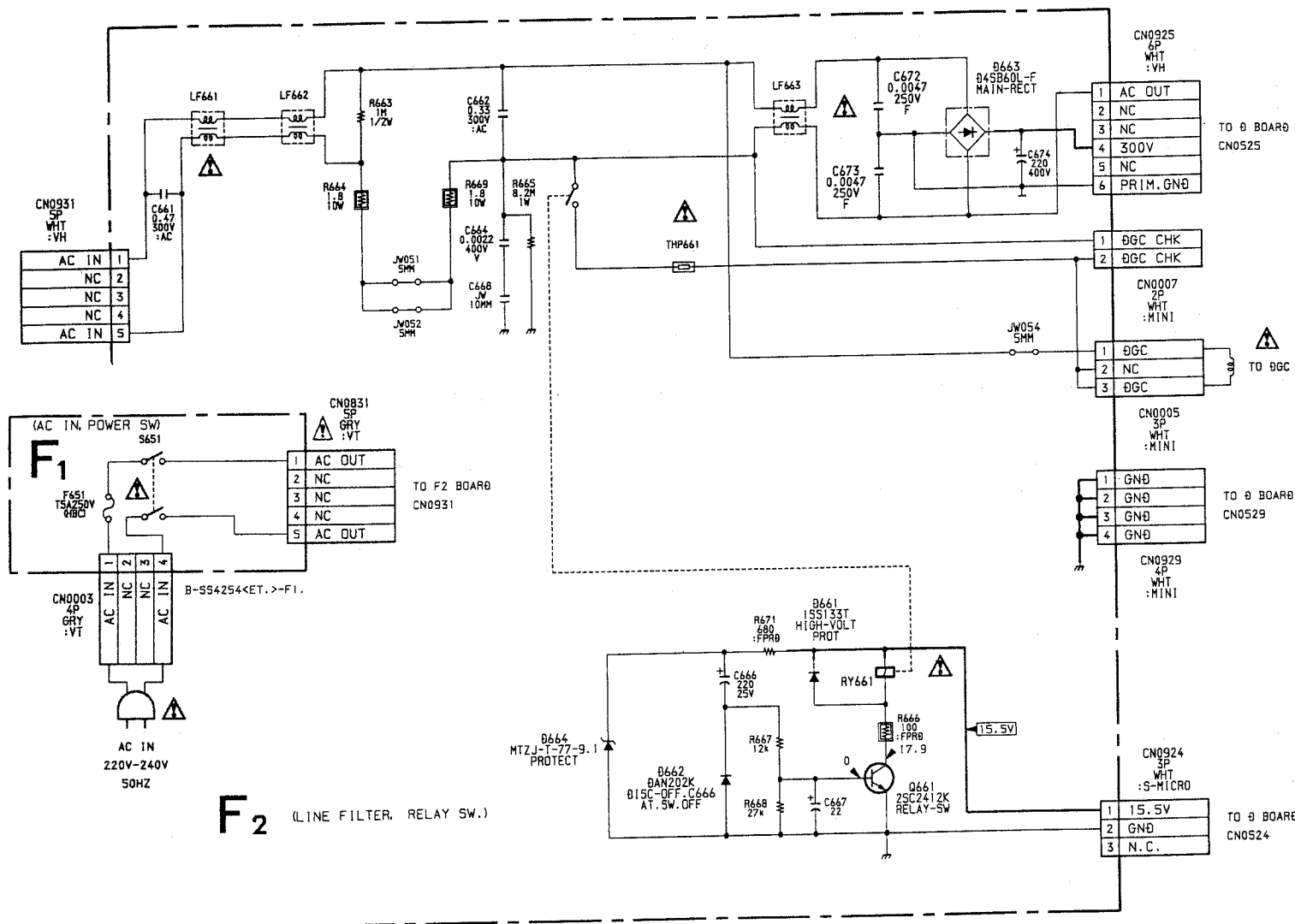
1.		Press MENU (A). The 'Language' display appears on the television screen.	TV SCREEN DISPLAY
2.		Press OK (C).	
3.		Press (D). ← The menu display appears.	
4.		Using △+ or ▽- buttons (B), move the arrow head on the menu display to 'Preset'.	
5.		Press OK (C). The PRESET menu appears.	
6.		Using △+ or ▽- buttons (B), move the arrow head on the menu display to 'Manual Programme Preset'.	

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 Oxon OX9 4QY
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 Email:- enquiries@mauritron.co.uk

7.		Press OK (C). The MANUAL PROGRAMME PRESET menu appears on the television screen	
8.		Using Δ + or ∇ - buttons (B), move the arrow head on the television screen display to the 'programme number' (PROG) you wish to tune in.	
9.		Press OK (C) 5 times so that the SEARCH position on the television screen display changes from 'off' to display two red arrows. (\blacktriangle \blacktriangledown). Note the 'channel number' will also change to red.	
10.		Press either Δ + (up) or ∇ - (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 Δ + or ∇ - again (B) to start the television searching for the next station.	
11.		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).	
12.		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.	
13.		Now you have tuned in all the available television stations, press MENU (A) to go back to the normal TV picture.	

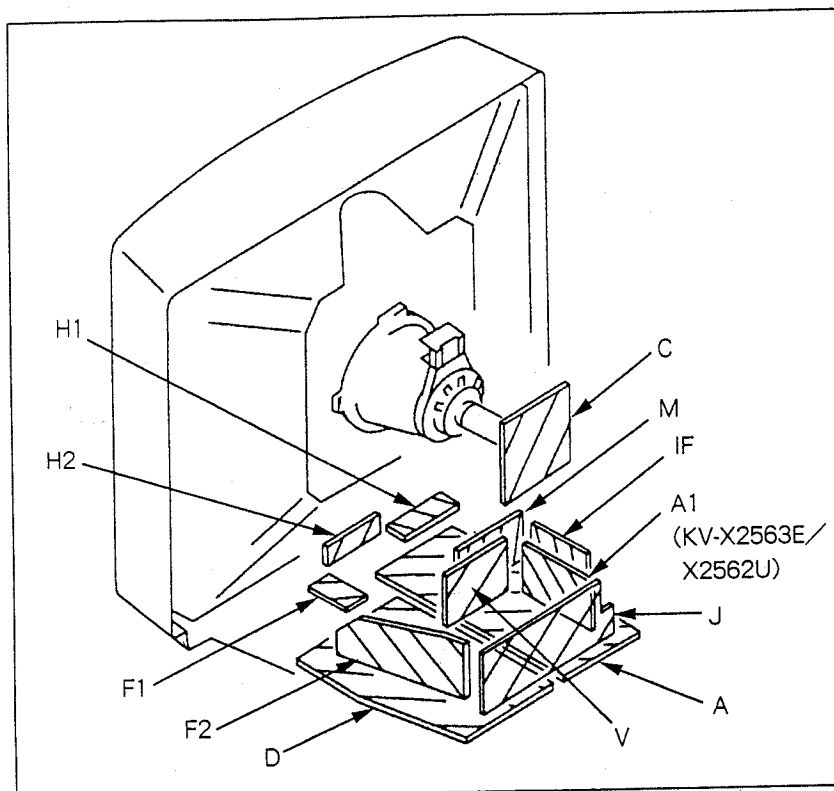
For further information, please refer to the main instruction manual.

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



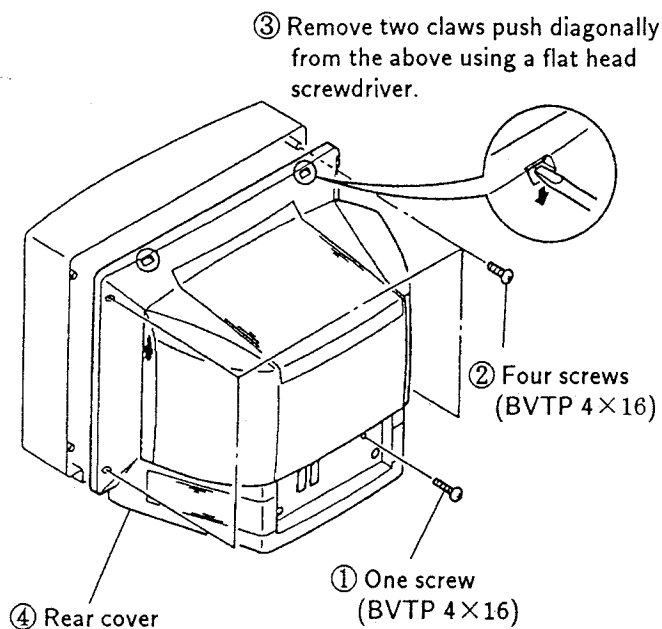
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CIRCUIT BOARDS LOCATION

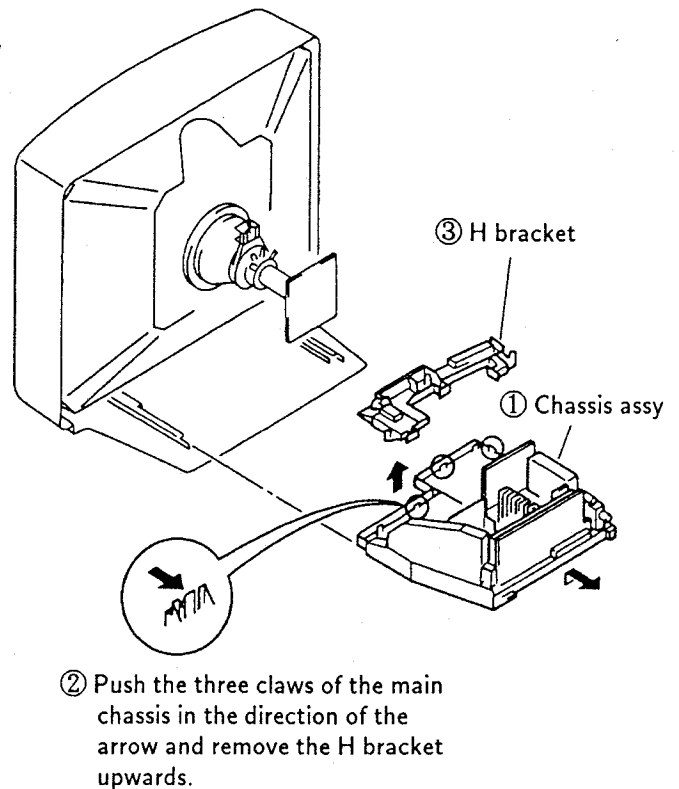


DISASSEMBLY

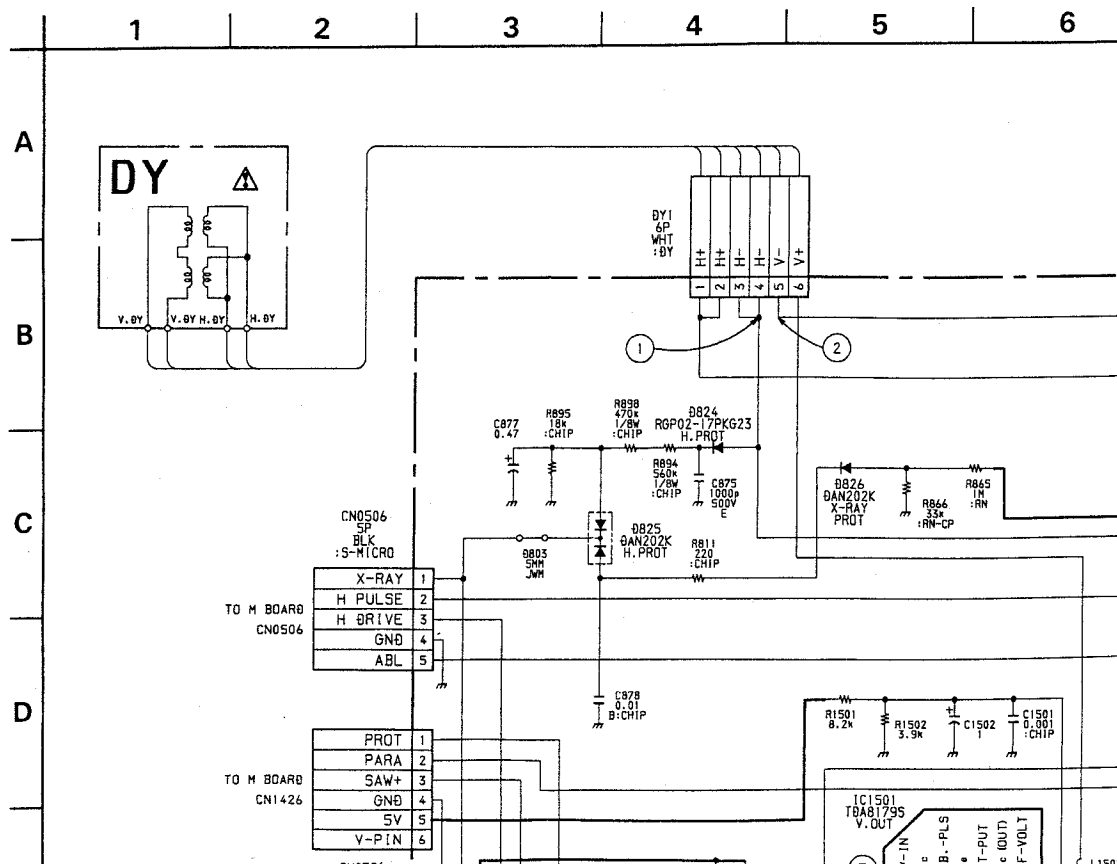
2-1. REAR COVER REMOVAL



2-2. CHASSIS ASSY REMOVAL



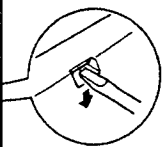
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DISASSEMBLY

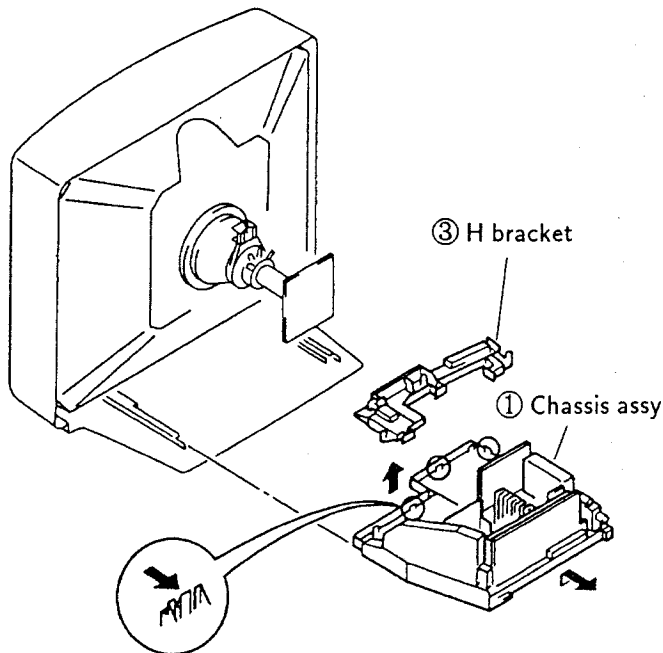
2-2. CHASSIS ASSY REMOVAL

Push diagonally
using a flat head



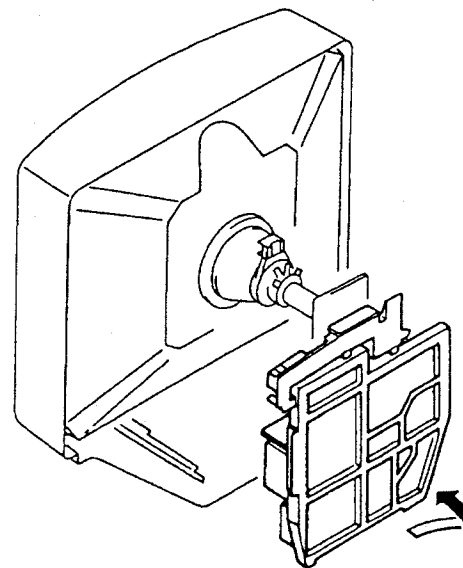
② Four screws
(BVTP 4×16)

② Four screws
(BVTP 4×16)

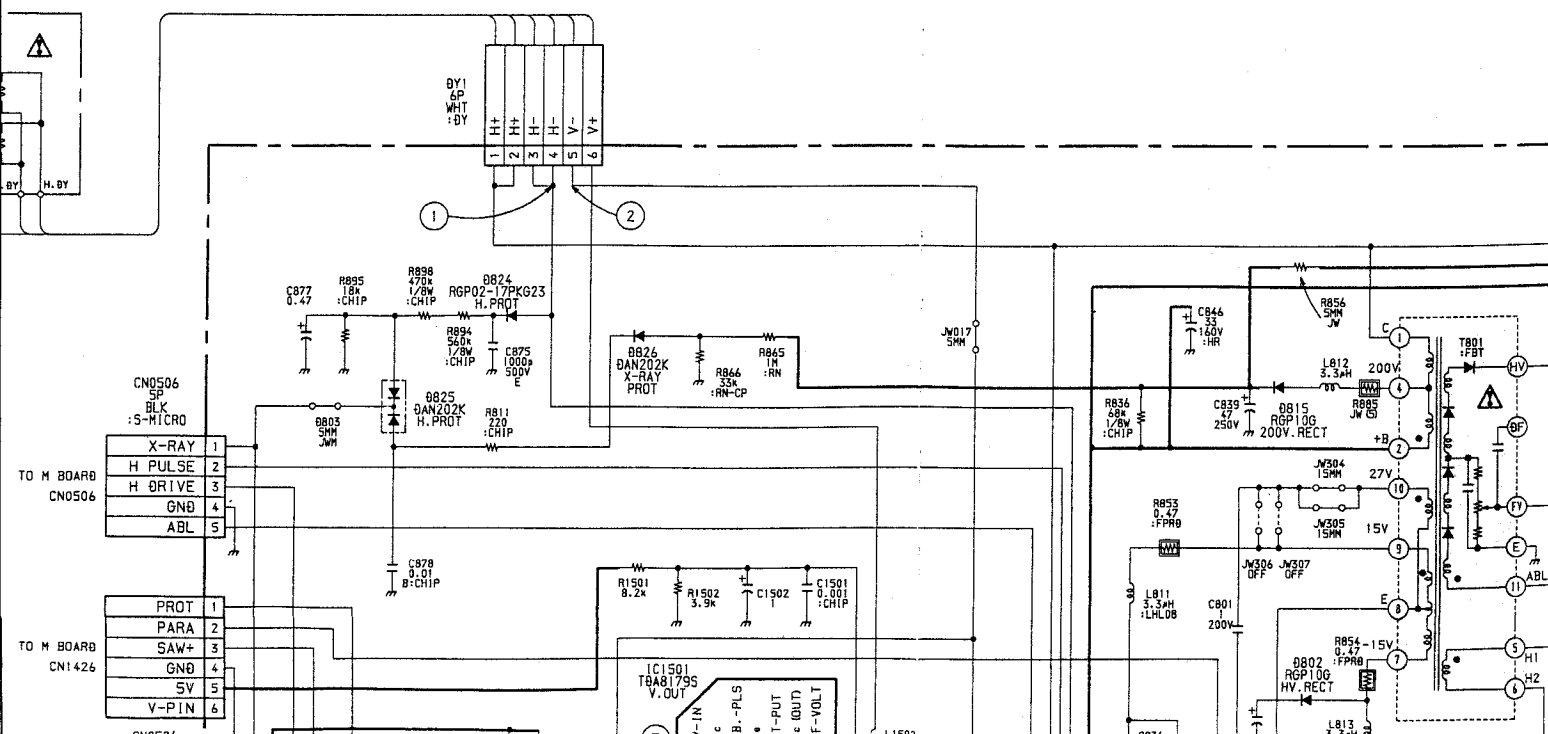


② Push the three claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

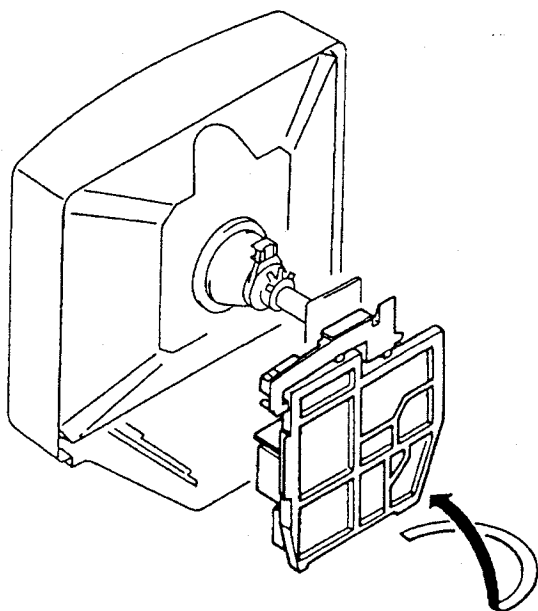
2-3. SERVICE POSITION (1)



2 3 4 5 6 7 8 9

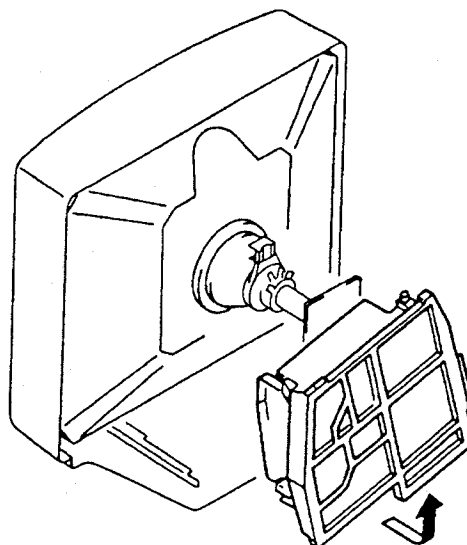


2-3. SERVICE POSITION (1)



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

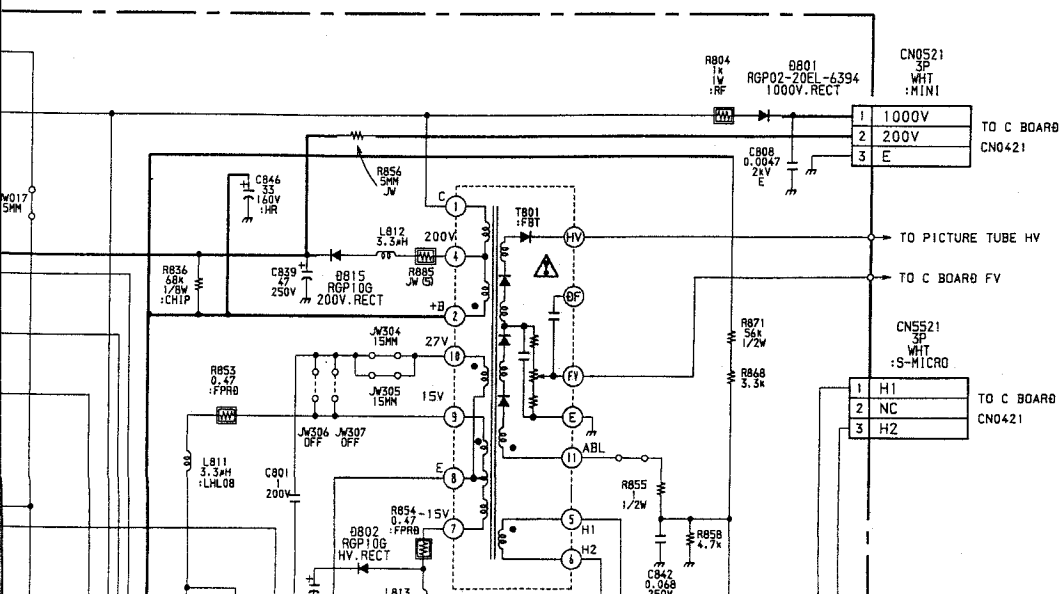
8

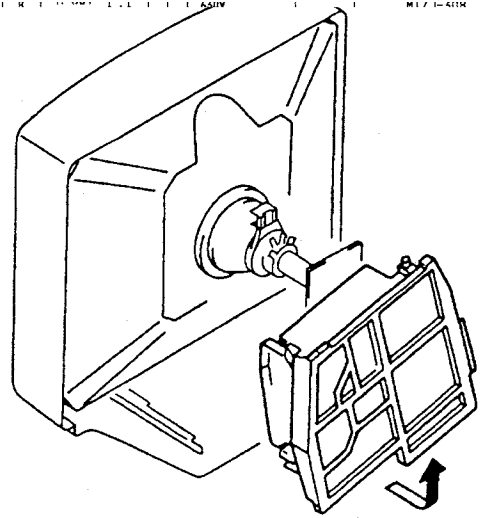
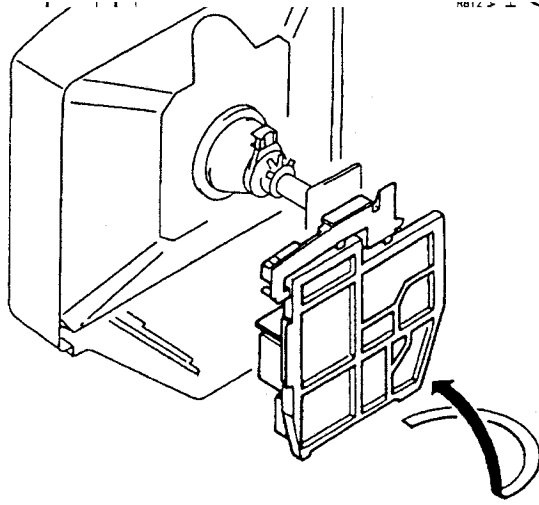
9

10

11

12





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7

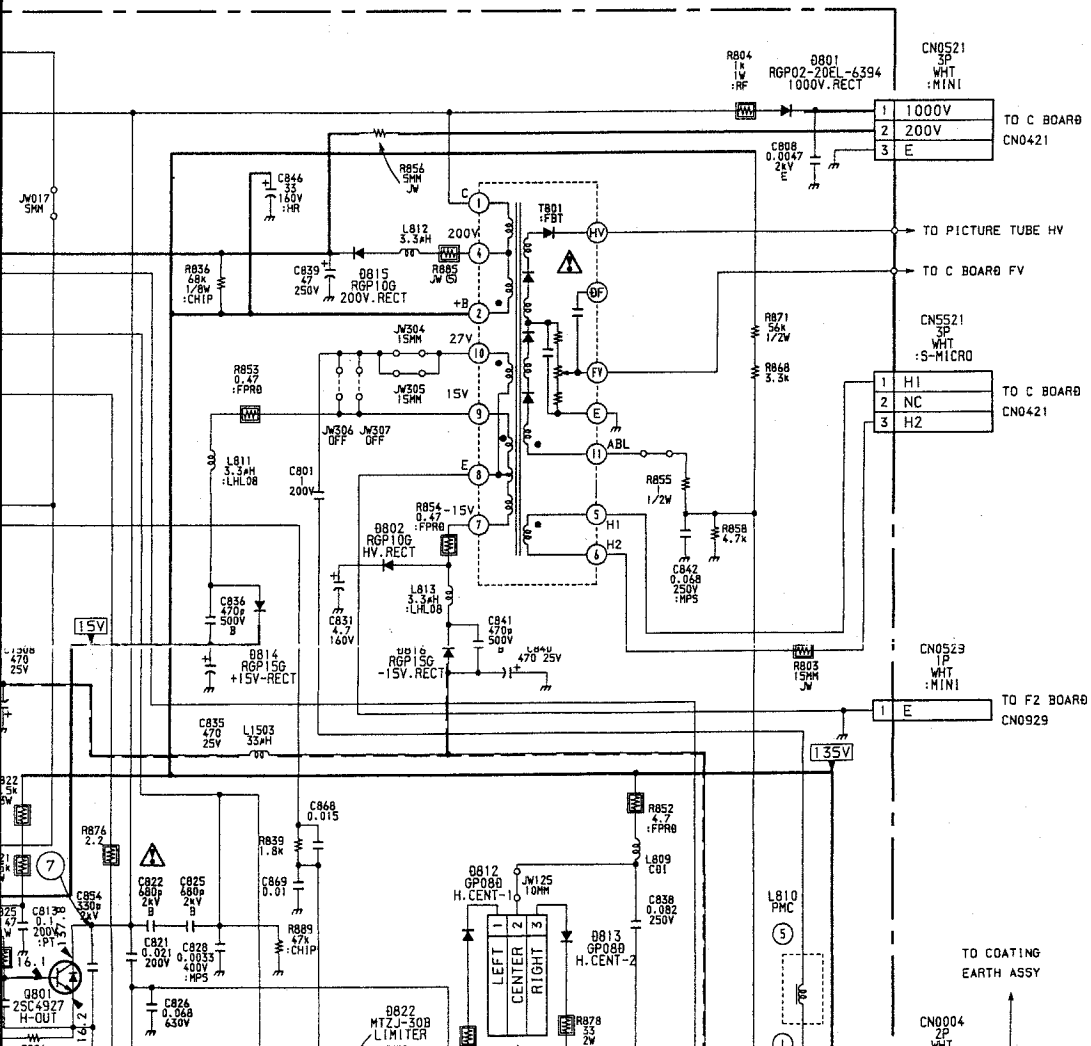
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9

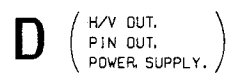
10

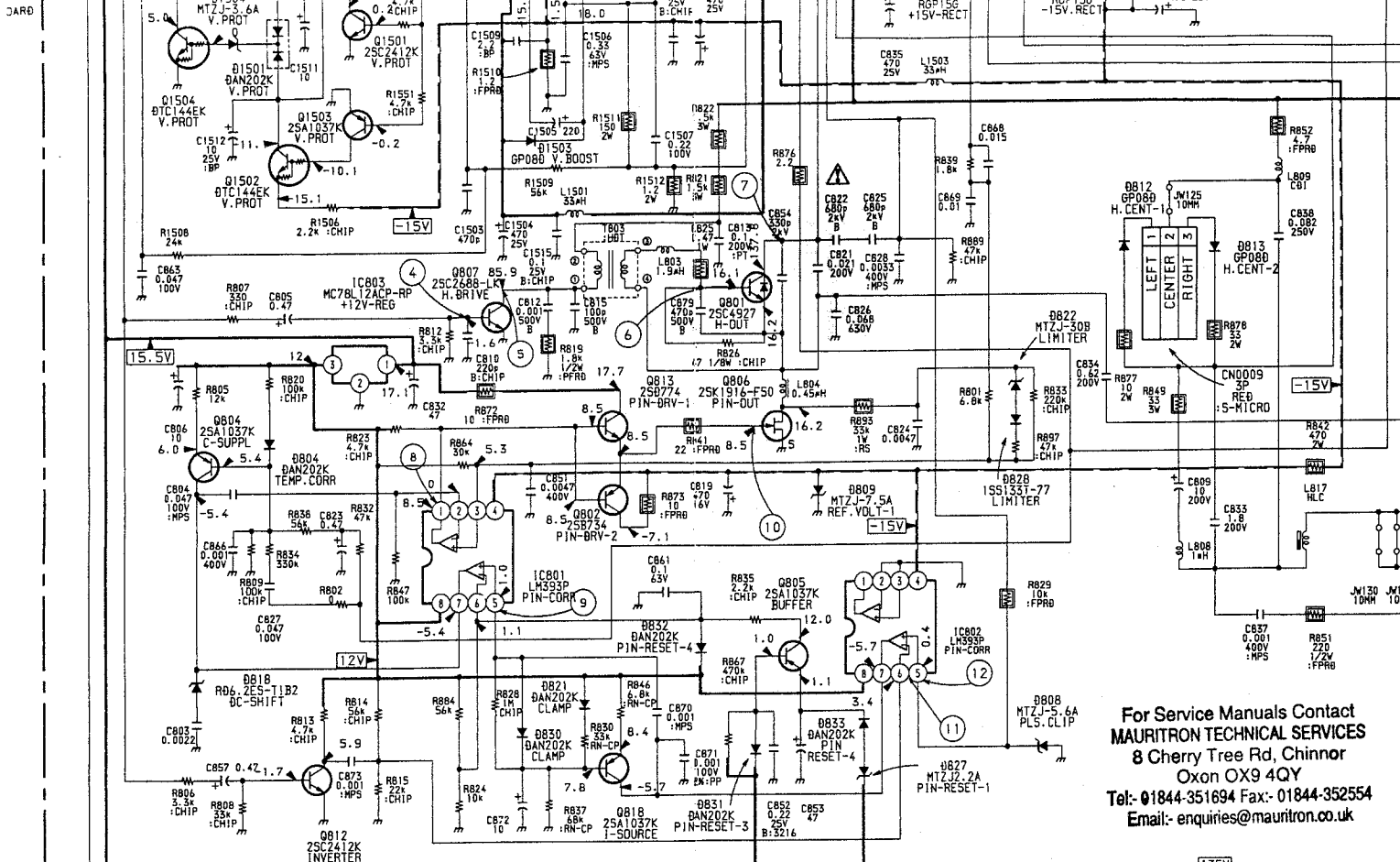
11

12

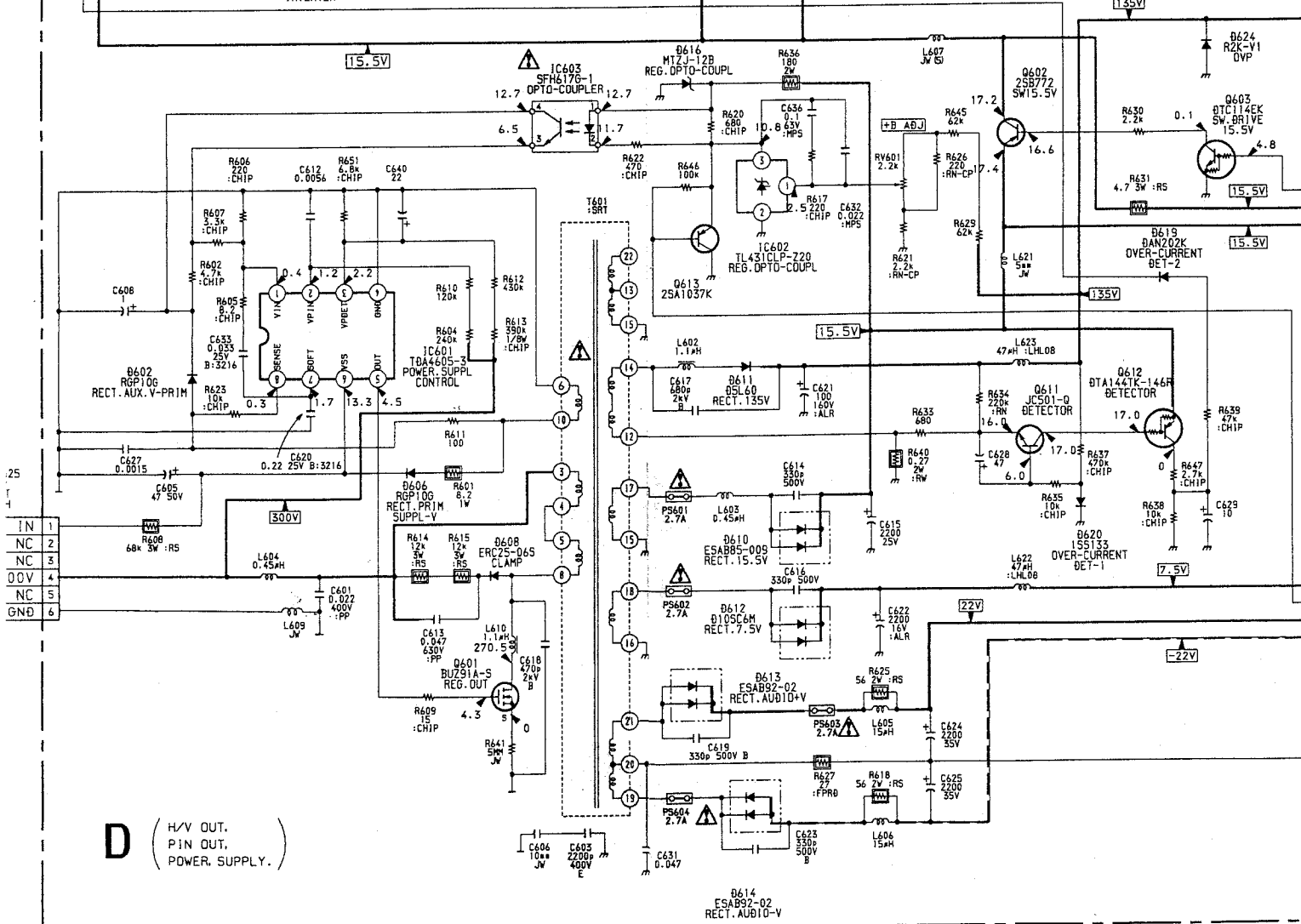


ol



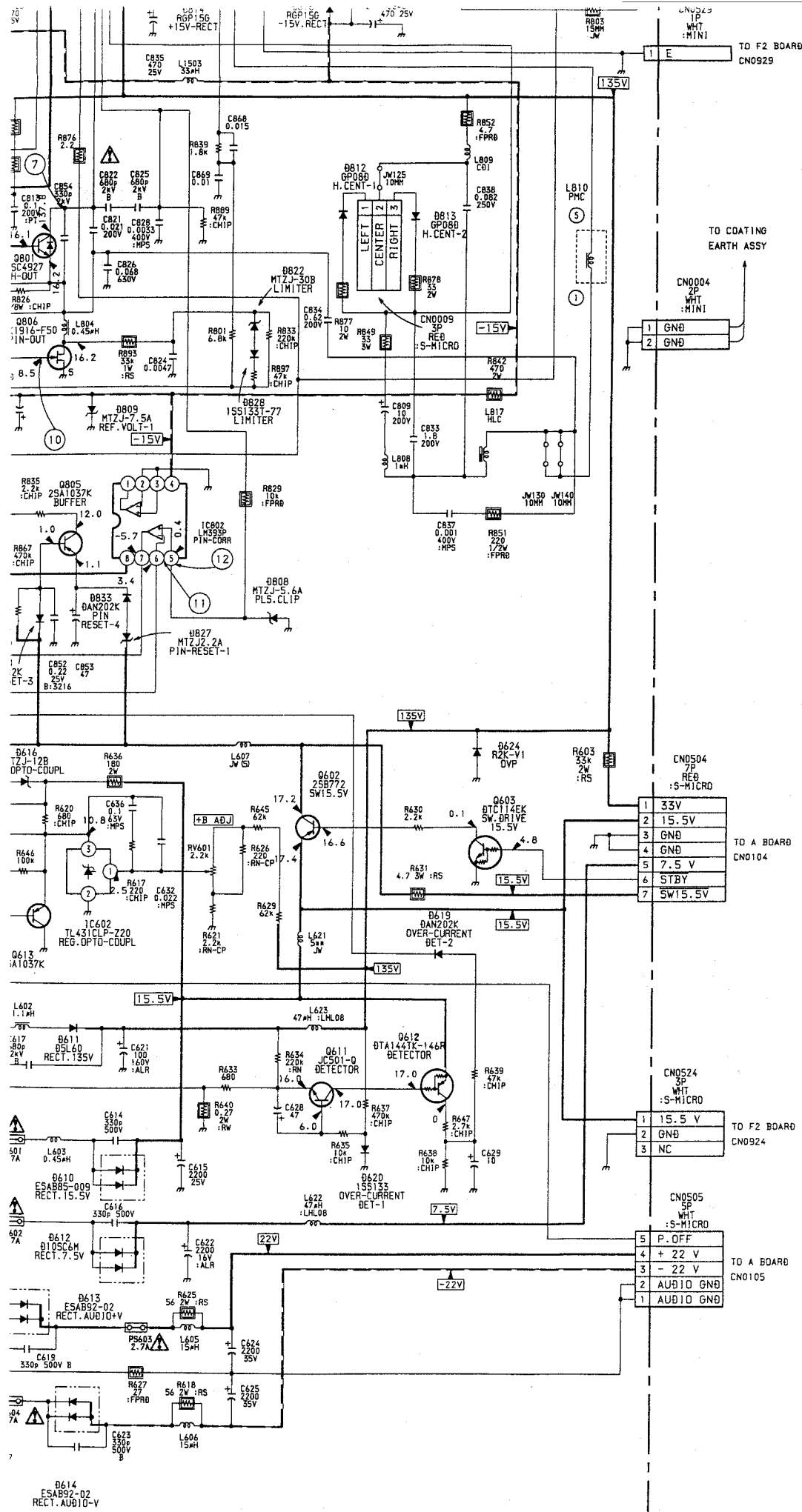


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IN	1
NC	2
NC	3
OVV	4
NC	5
GND	6

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



CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS

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

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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.

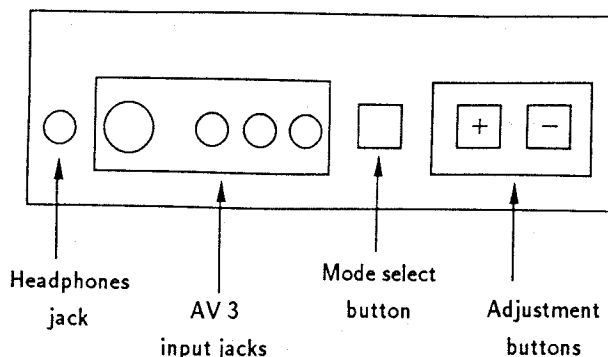


Fig.4-1

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

Command operation in service mode

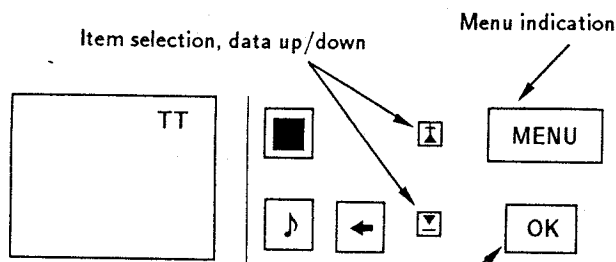


Fig.4-2

Fig.4-3

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

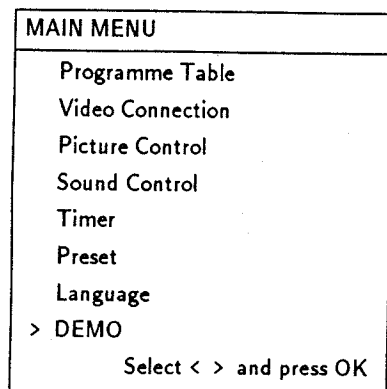
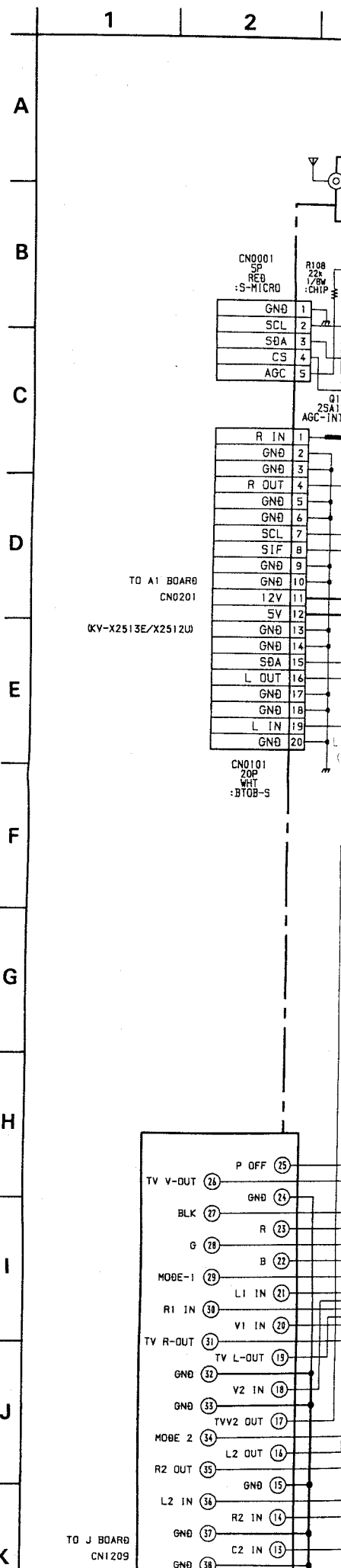


Fig.4-4



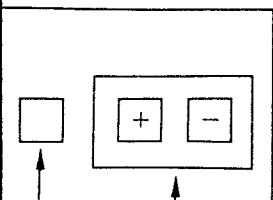
ADJUSTMENTS

ADJUSTMENTS

model can be performed
commander RM-830.

VOICE MODE

switch of the set while
on the front panel.

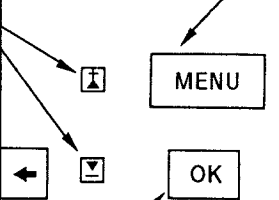


mode select
button Adjustment
buttons

upper right corner of the

mode

Menu indication



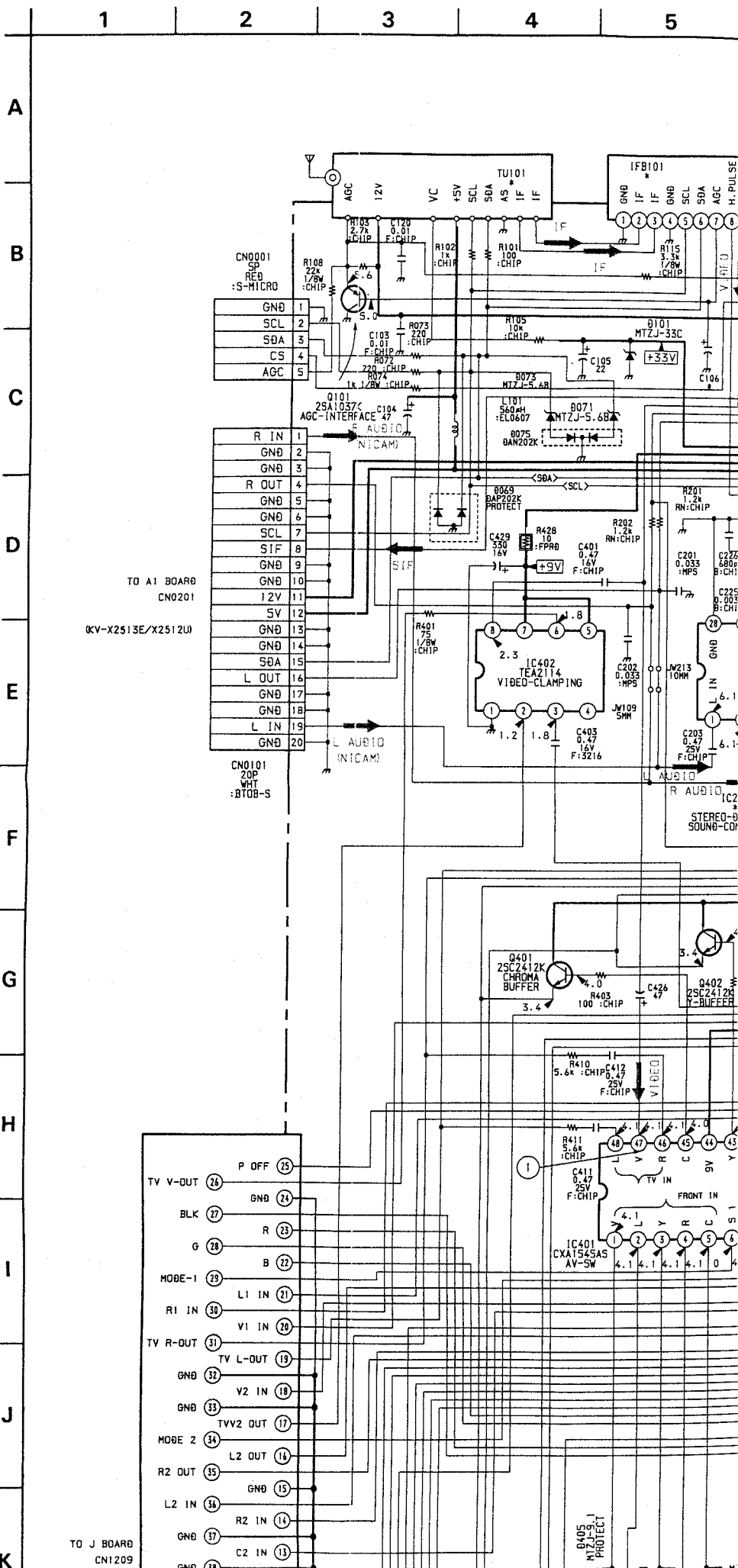
Selection completion,
data written-in

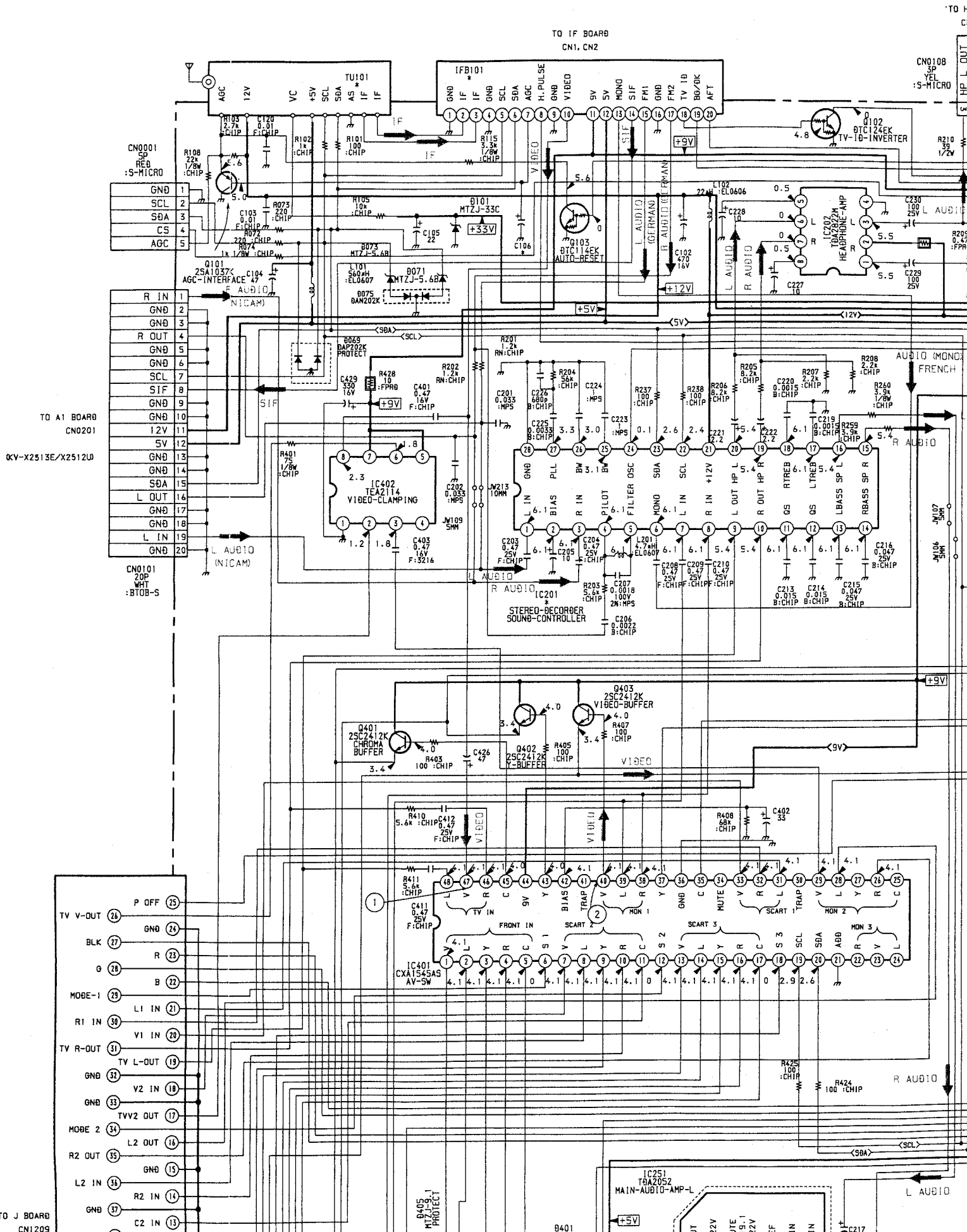
of the commander to get



> and press OK

4-4





6

7

8

9

10

11

12

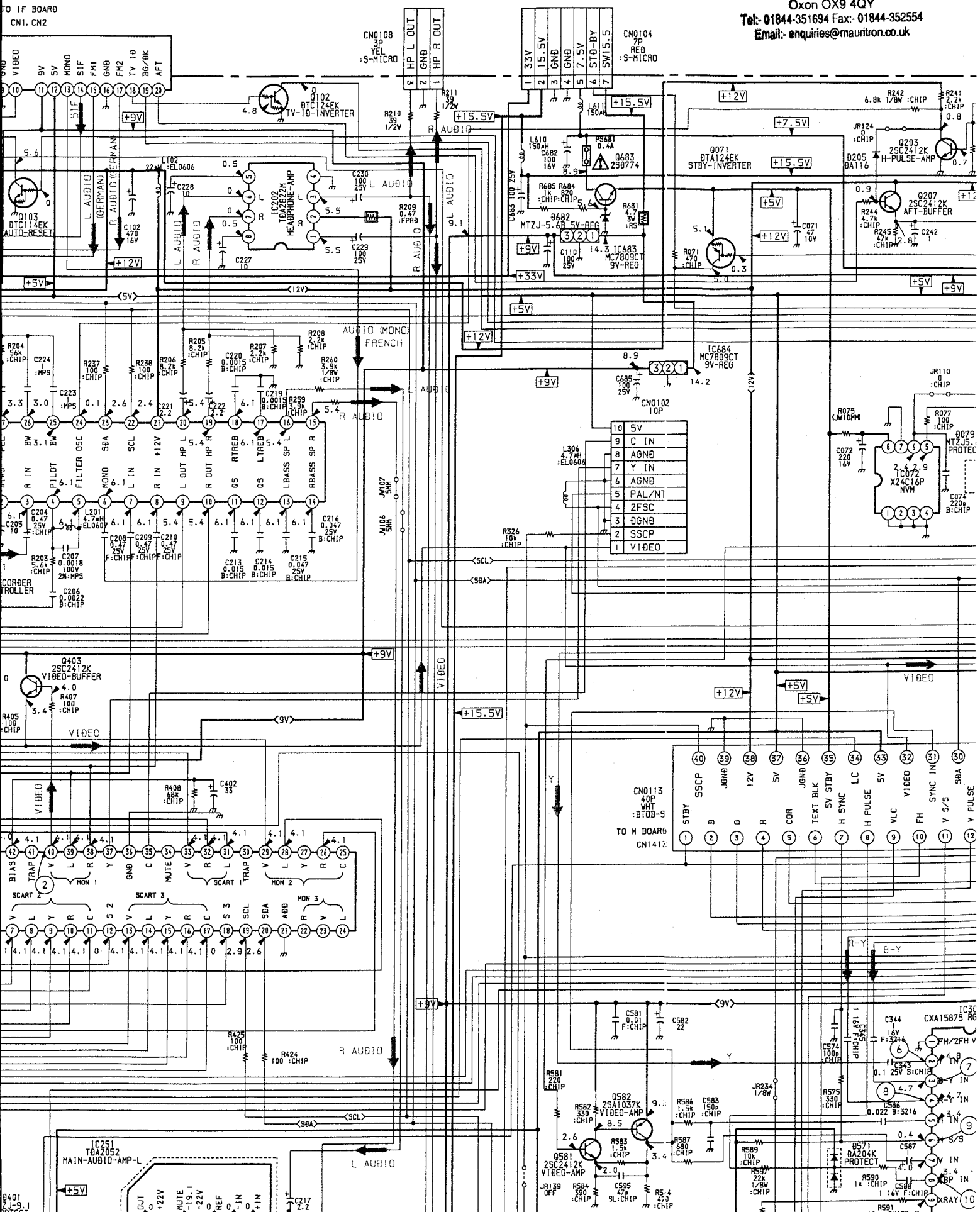
13

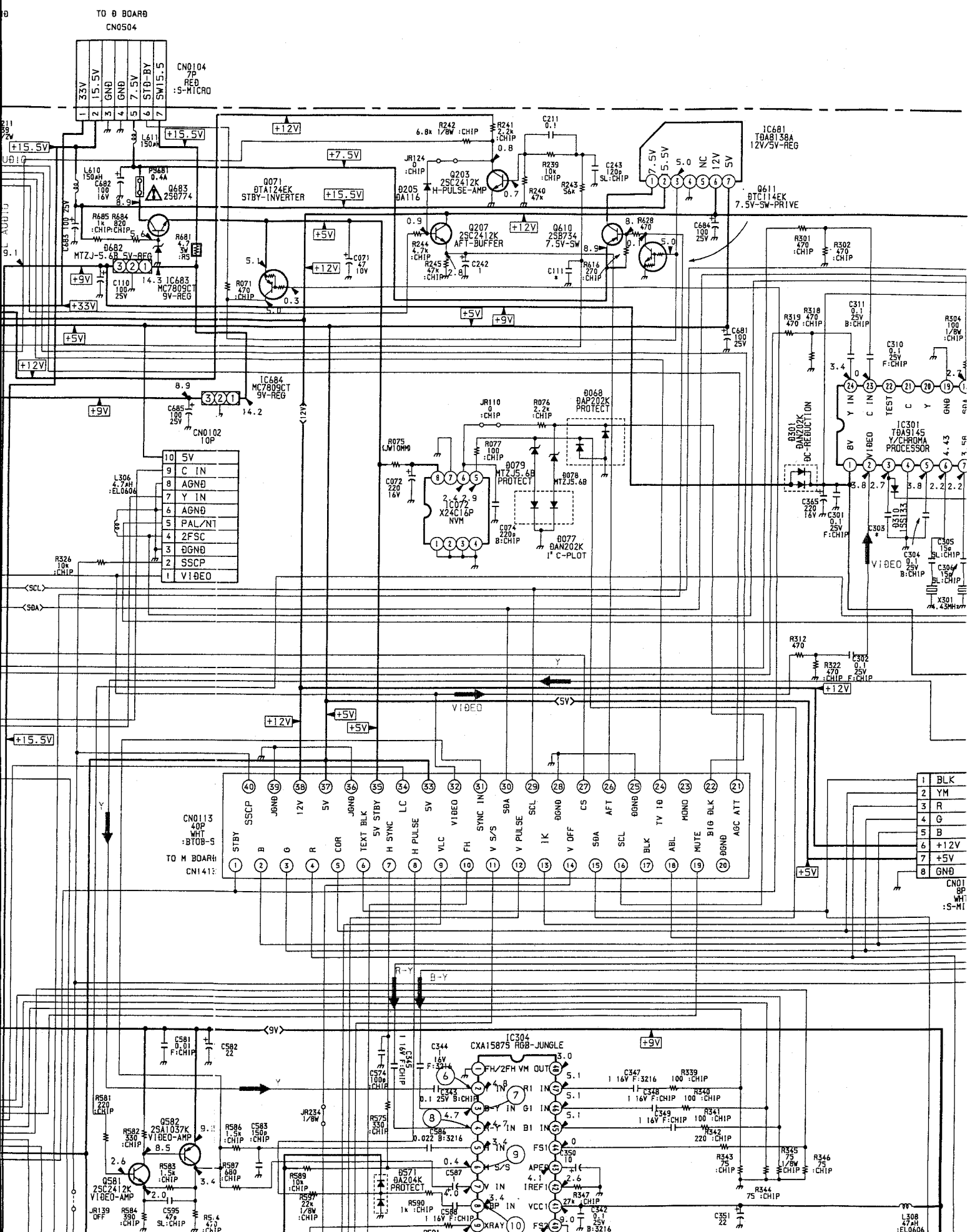
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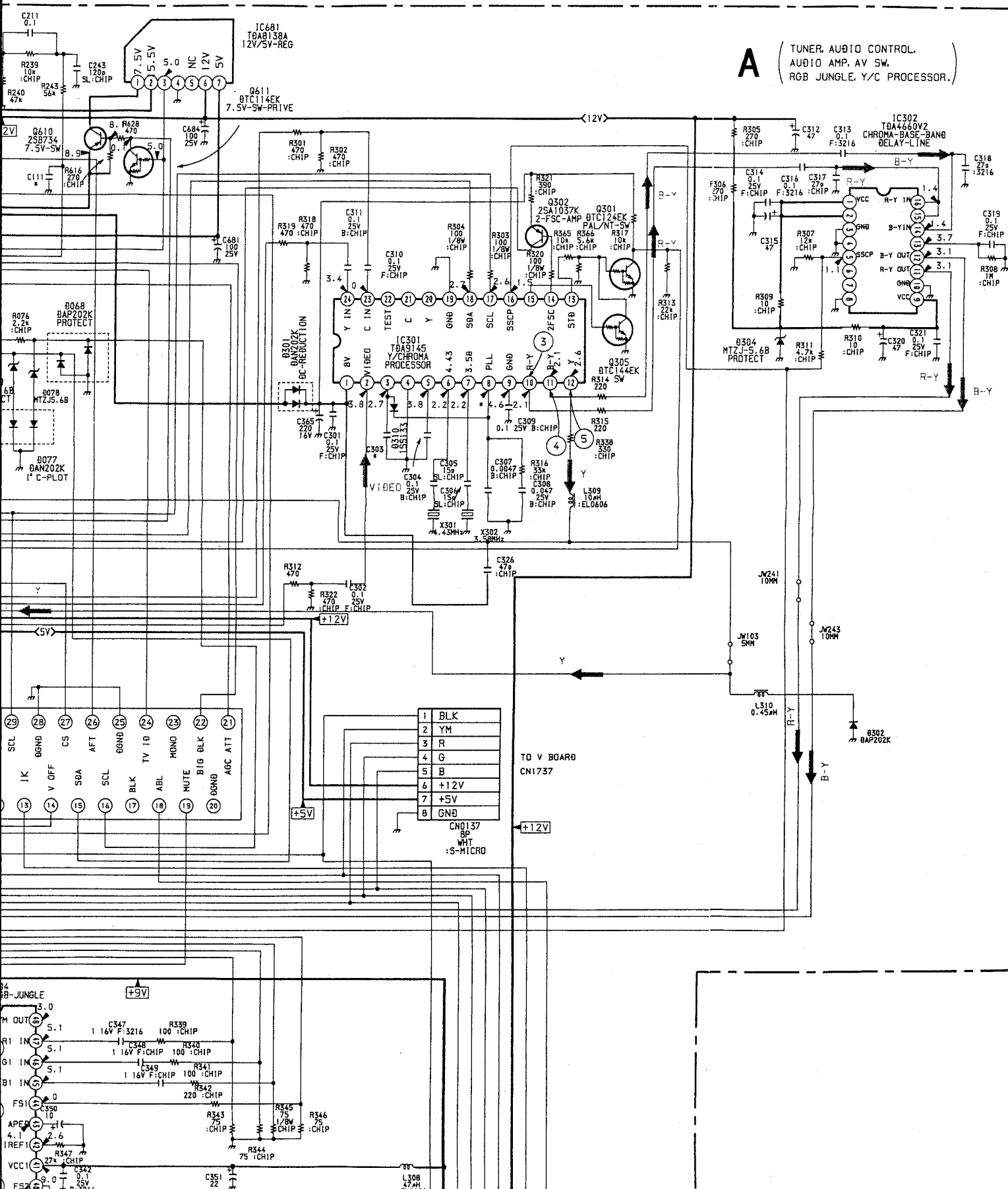
TO IF BOARD
 CN1, CN2

TO HI BOARD
 CN1008

TO 0 BOARD
 CN0504







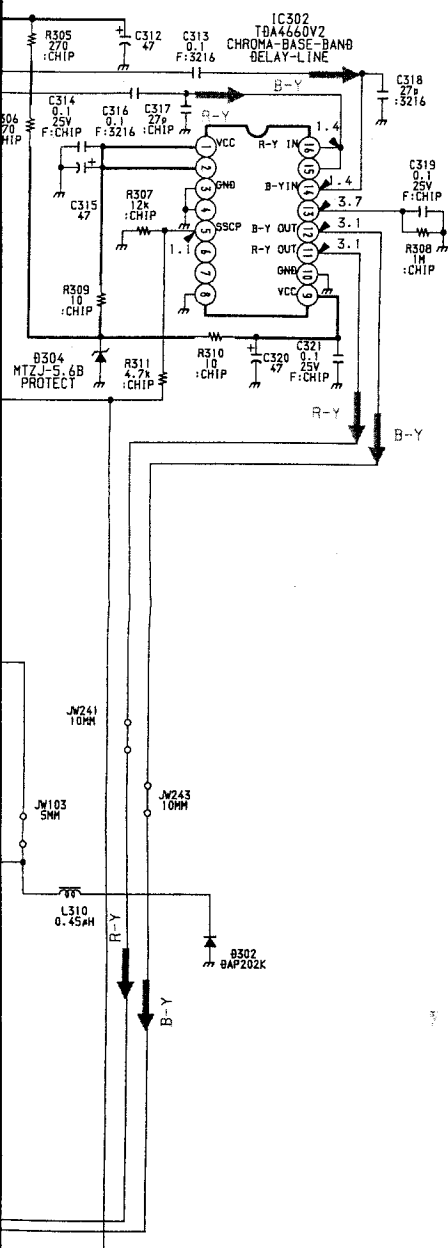
20

21

22

A

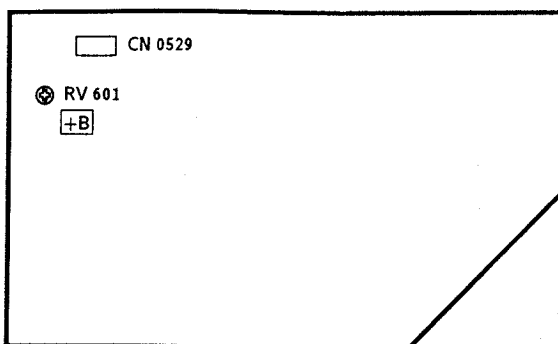
(TUNER, AUDIO CONTROL,
AUDIO AMP, AV SW,
RGB JUNGLE, Y/C PROCESSOR.)



VOLUME ELECTRICAL ADJUSTMENTS

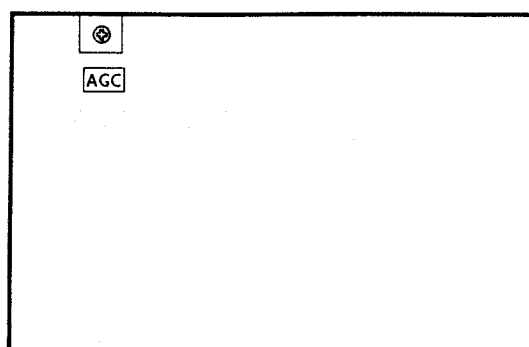
+B (+135 V) ADJUSTMENT (RV 601)

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.

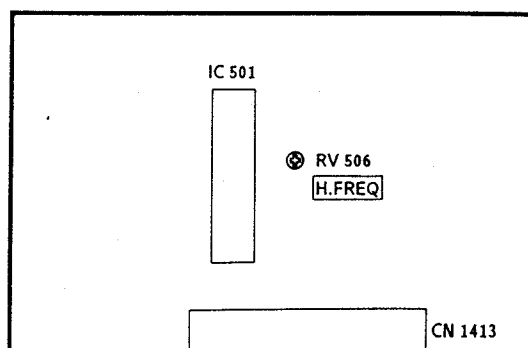
AGC ADJUSTMENT (IF BLOCK)



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.

Programme Table
 Video Connection
 Picture Control
 Sound Control
 Timer
 Preset
 Language
 > DEMO
 Select < > and press OK

Fig.4-4

- Press the and buttons of the commander and move > to DEMO.
- Press button to proceed to the next menu.
- 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

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 Email:- enquiries@mauritron.co.uk

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

CXA 1587 S

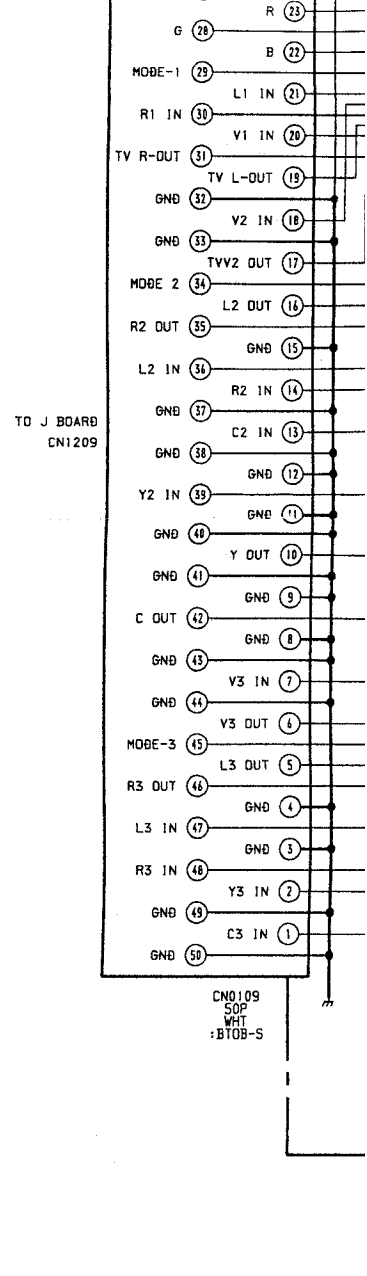
Item No.	Adjustment item	Data Amount
01	PICTURE	3
02	COLOR	1
03	BRIGHT	1
04	HUE	1
05	SHARPNESS	7
06	RGB PICTURE	3
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
> 09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

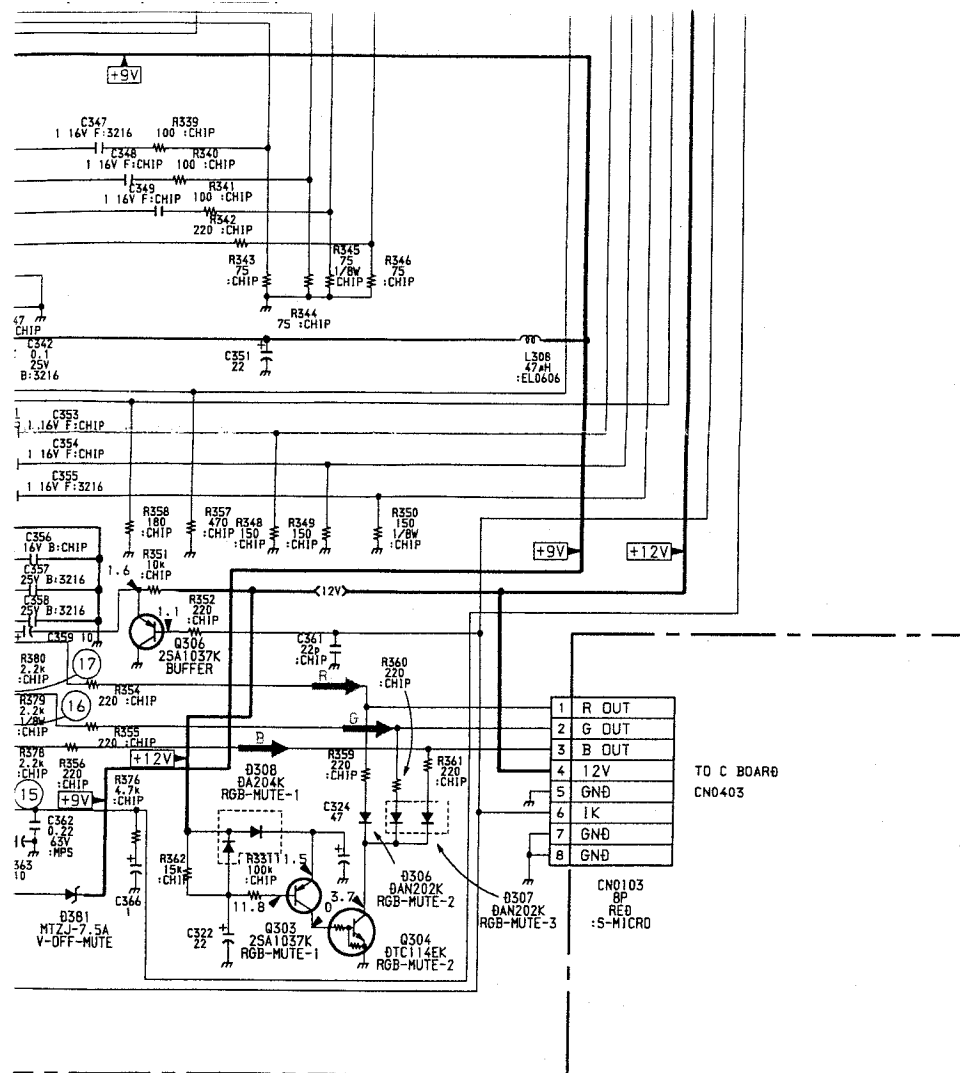
- Press button to get the next selection menu.
- Press button and move > to the adjustment item and press button.

DEFLECTION SYSTEM ADJUST

- Enter into service mode and s
- 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





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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
 ▽-.

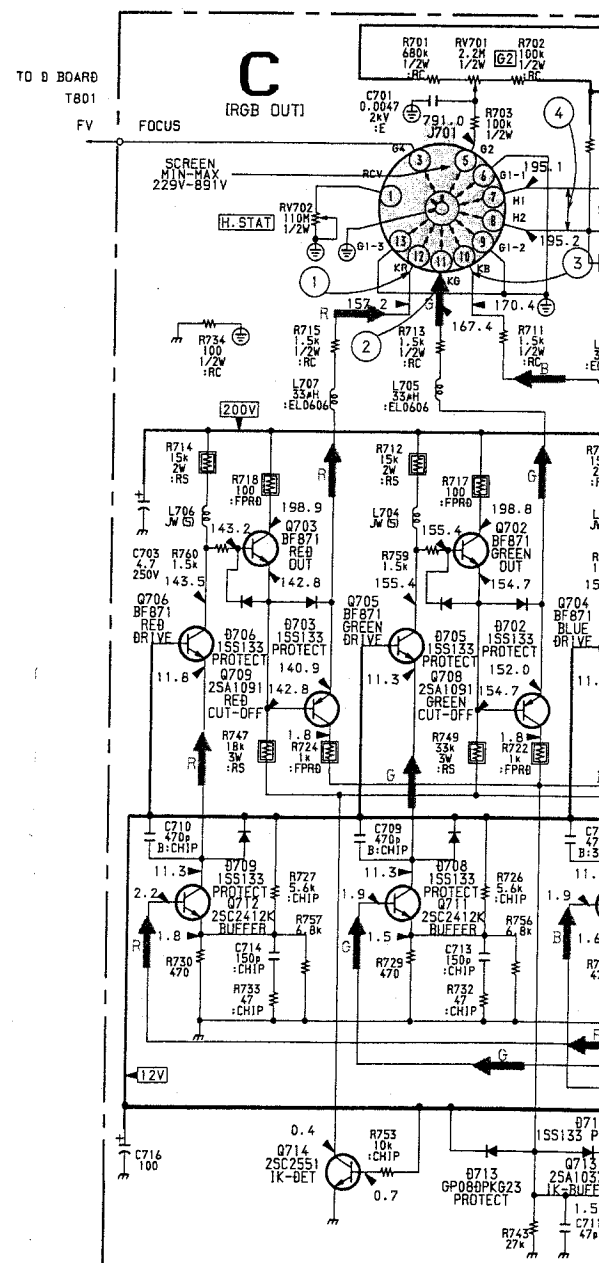
PARENTAL LOCK			
PROG CH LABEL	PROG CH LABEL		
0 AV1 VHS	8 C38	---	
1 C25 BBC2	9 C39	---	
2 C42 BBC1	10 C40	---	
3 C26 C4	11 C41	---	
4 C34 ITV	12 C42	---	
5 C35	13 C43	---	
6 C36	14 C44	---	
7 C37	15 C45	---	

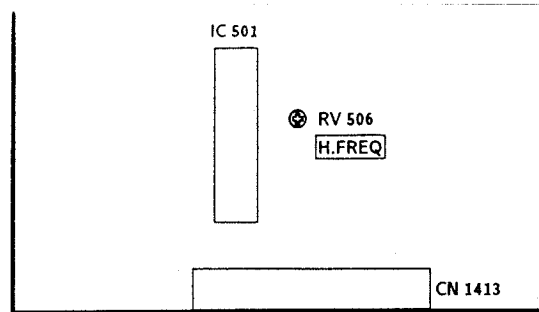
Select ☒ and press OK

Fig. 26.

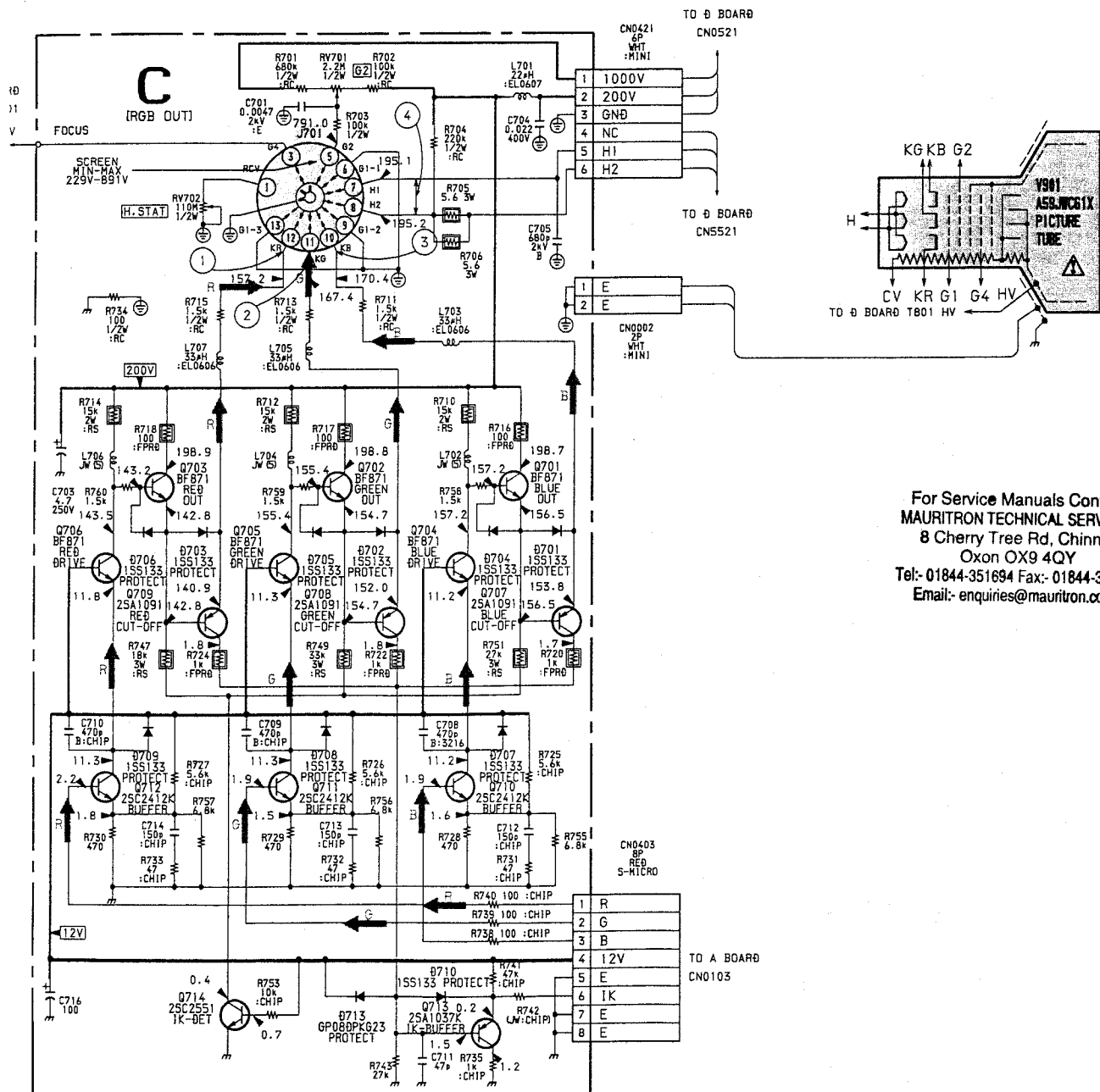
PROG CH LABEL	PROG CH LABEL
0 AV1 VHS	
1 C22 BBC2	
2 C42 BBC1	
3 C26 C4	

Fig. 27.





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.

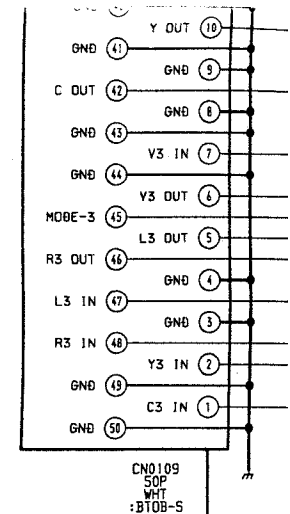
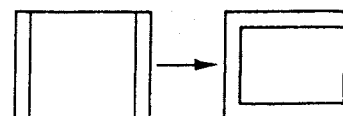
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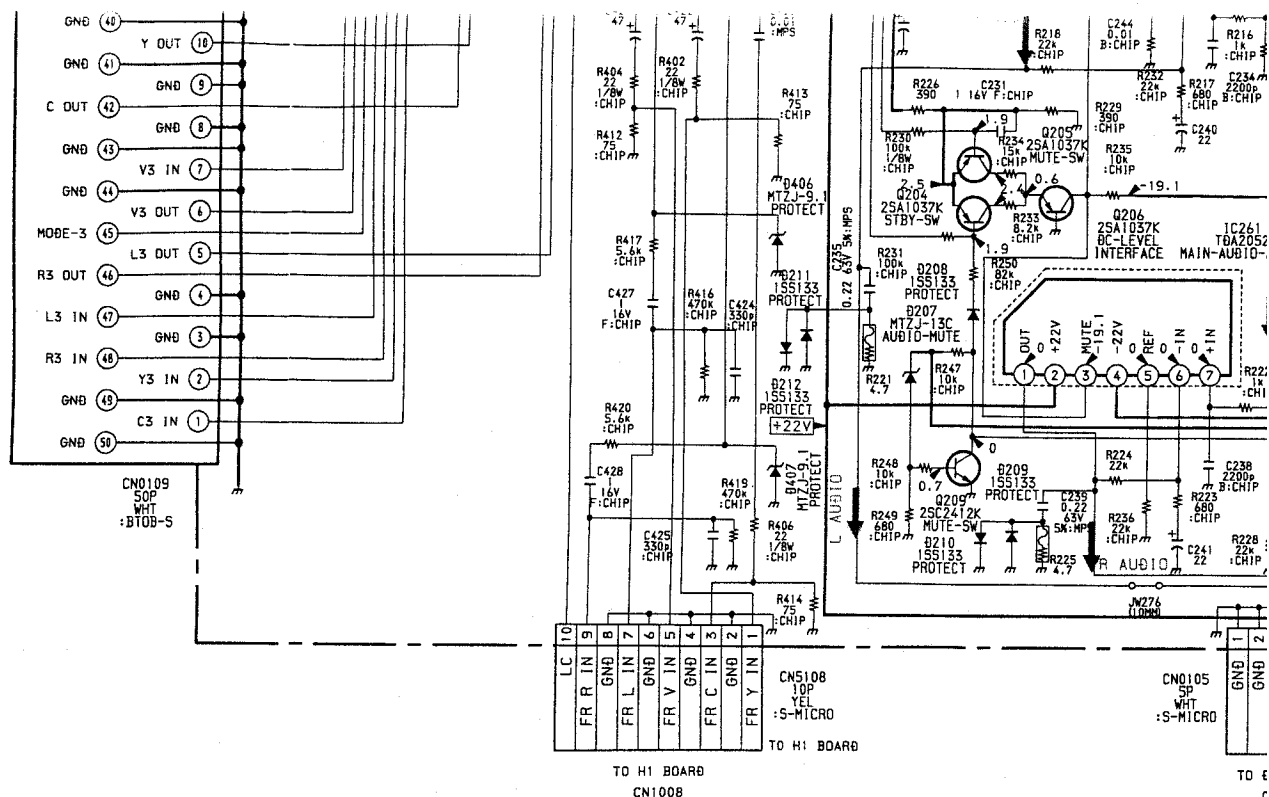
DEFLECTION SYSTEM ADJUST

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





DEFLECTION SYSTEM ADJUSTMENT

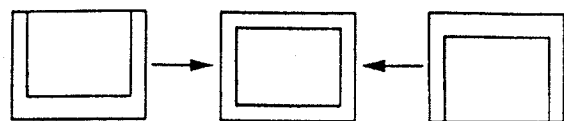
1. Enter into service mode and select CXD 2018.
2. Select and adjust each item in order to get an optimum image.

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 SIZE



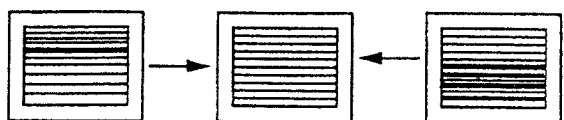
V SHIFT



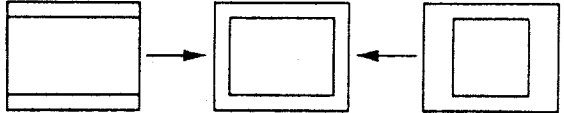
S CORRECTION



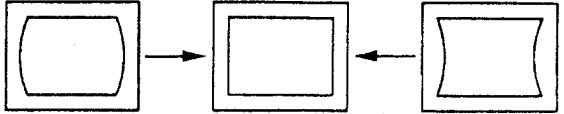
V LINEARITY



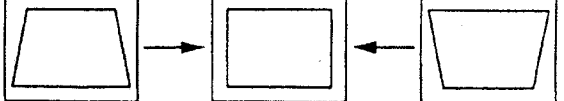
H SIZE

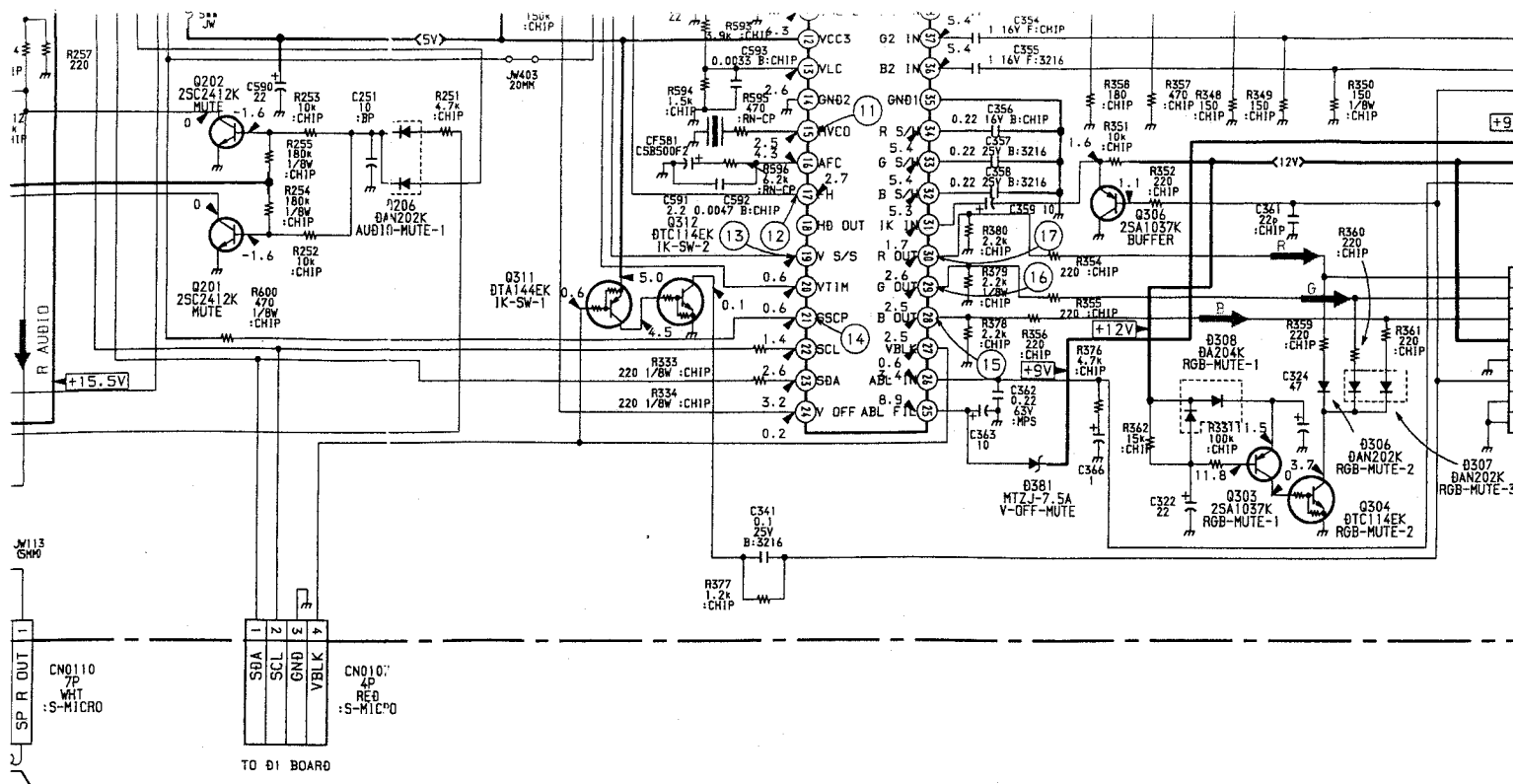


PIN AMP

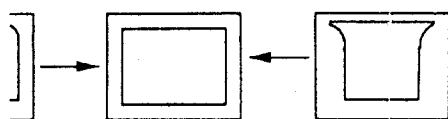


TILT

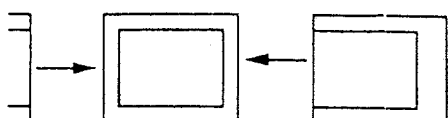
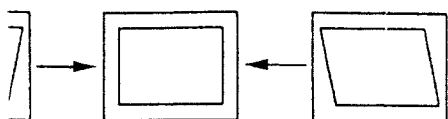
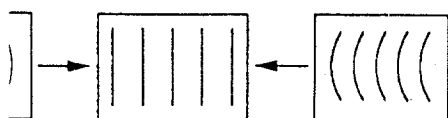
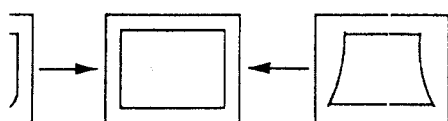




ERNER PIN



ERNER PIN



button to write the data.

ly may disturb the adjustment press \times to
ne it, press \times 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

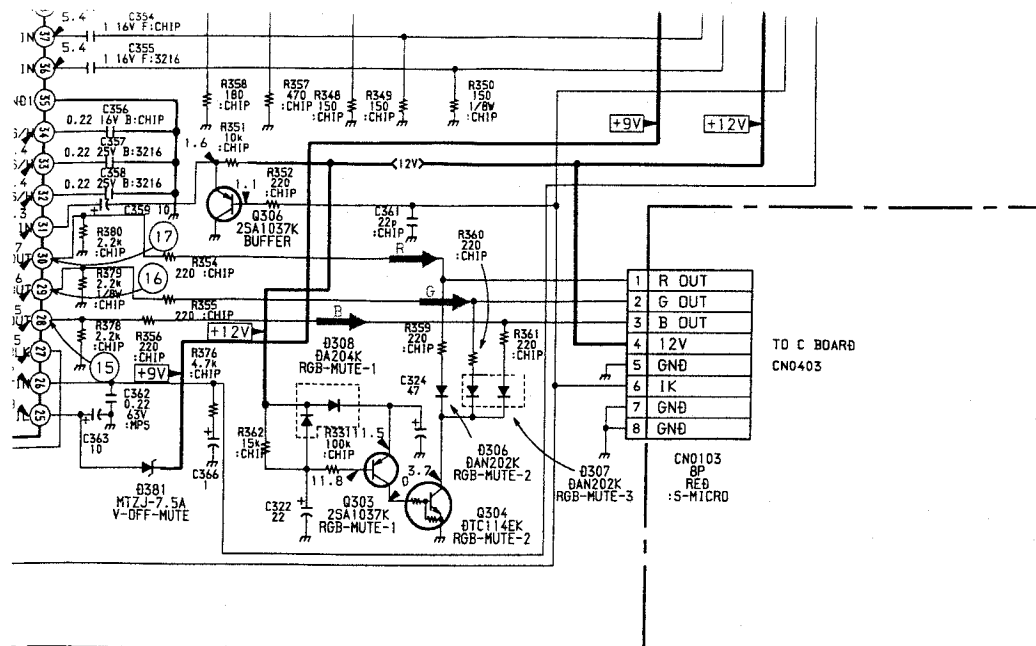
- 1 On the PARENTAL LOCK menu, select the programme position you want to unblock with Δ or ∇ .
- 2 Press OK. The selected PROG number, CH and LABEL change colour to normal colour indicating that the blocking has been cancelled.

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

Fig. 26.

PROG	CH	LABEL	PROG
0	AV1	VHS	8
1	C22	BBC2	9
2	C42	BBC1	10
3	C26	C4	11
4	C34	ITV	12
5	C35	---	13
6	C36	---	14
7	C37	---	15

Fig. 27.



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

✶

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

the main menu.

+, or ▽- and press OK.
 appears.

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

the programme position you want to

mber, CH and LABEL change colour
 ramme is now blocked. (See Fig. 27.)

other programme positions.

ng

OK menu, select the programme position
 h △+ or ▽-.

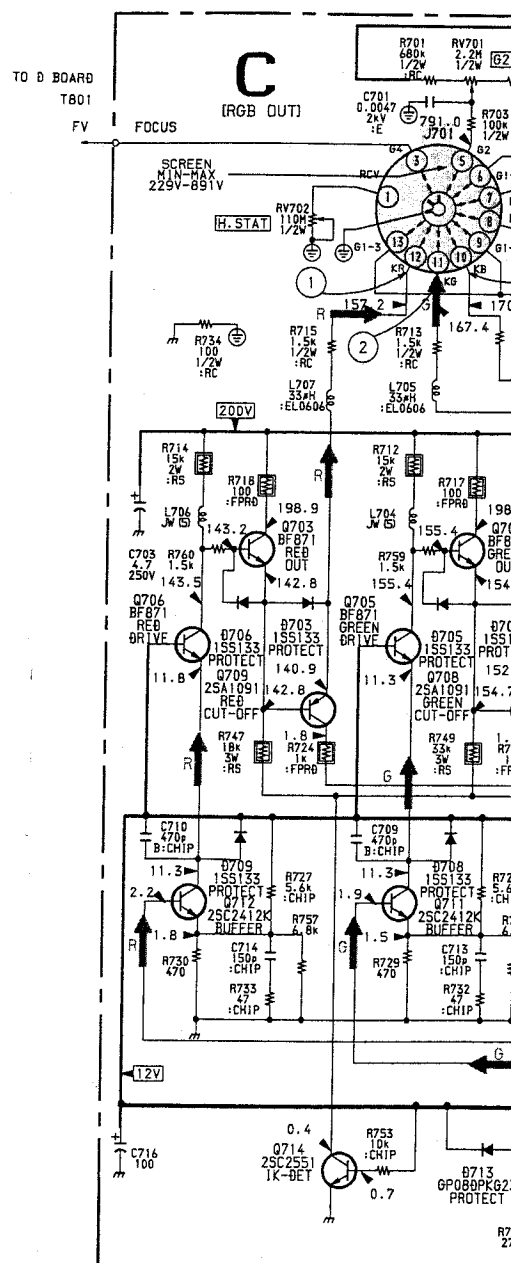
mber, CH and LABEL change colour to
 , that the blocking has been cancelled.

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

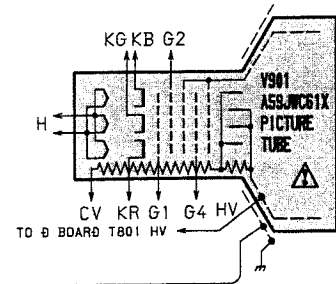
Fig. 26.

PROG CH	LABEL	PROG CH	LABEL
0	AV1 VHS		
1	C22 BBC2		
2	C42 BBC1		
3	C34 C4		

Fig. 27.



4. Remove ⑫ pin of IC 501 from GND.



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