

SERVICE MANUAL

AE-2B CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-X2971A	RM-831	Italian	SCC-G59A-A	KV-X2973E	RM-831	Spanish	SCC-G56A-A
KV-X2971B	RM-831	French	SCC-G57A-A	KV-X2971K	RM-831	OIRT	SCC-G73A-A
KV-X2971D	RM-831	AEP	SCC-G45A-A	KV-X2972U	RM-831	UK	SCC-G55A-A



TRINITRON[®] COLOR TV
SONY[®]

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H, D/K	GERMAN Stereo	ITALIA VHF:A-H2 (C) UHF: 21-69 PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K L, I	GERMAN Stereo	L VHF:F02-F10 UHF:F21-F60 CABLE:B-Q B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 I UHF:B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	GERMAN Stereo	B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	I	NICAM Stereo	UHF : B21-B69	PAL; SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	Italian	French	AEP	Spanish	OIRT	UK
Power Consumption	112W	125W	130Wh	133Wh	130Wh	186W

SPECIFICATIONS

Picture Tube Super Trinitron
Approx. 72 cm (29 inches)
(Approx. 68 cm picture measured diagonally)
110° -deflection

Input/Output Terminals

[FRONT]

⊖-1 21-pin Euro connector (CENELEC standard)

- inputs for audio and video signals
- inputs for RGB
- outputs of TV video and audio signals

⊖-2/⊖-3 2 21-pin Euro connector

- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (selectable)
- ⊖ Audio outputs (variable) - phono jacks

[REAR]

- ⊖ Video input - phono jack
- ⊖ Audio inputs - phono jacks
- ⊖ S video input 4-pin DIN
- ⊖ Headphone jacks : stereo minijack

Sound output 2 x 12W (RMS)
2 x 30W (Music)

Power requirements 220 - 240V
Dimensions Approx. 676x557x528 mm
Weight Approx. 48kg
Supplied accessories RM-831 Remote Commander (1)
IEC designation R6 battery (1)
Other features NICAM, FASTEXT.


[RM-831]

Remote control system infrared control
Power requirements 1.5V dc
1 battery IEC designation R6 (size AA)
Dimensions Approx. 65x225x21 mm (w/h/d)
Weight Approx. 157g (Not including batteries)

Design and specifications are subject to change without notice.

Model name Item	KV-X2971A	KV-X2971B	KV-X2971D	KV-X2973E	KV-X2971K	KV-X2972U
Pal Comb	OFF	OFF	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	OFF	OFF	OFF	OFF
Woofers Box	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF	OFF
Dyn. Convergence	OFF	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF
Language Preset	Italiano	Francais	Deutsch	None	OIRT	English

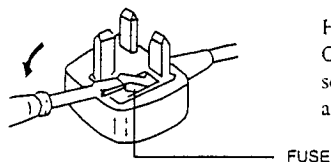
WARNING (KV-X2972U only)

The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 5 AMP capacity. Should the fuse need to be replaced, use a 5 AMP FUSE approved by ASTA to BS 1362, ie one that carries the  mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME. IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.

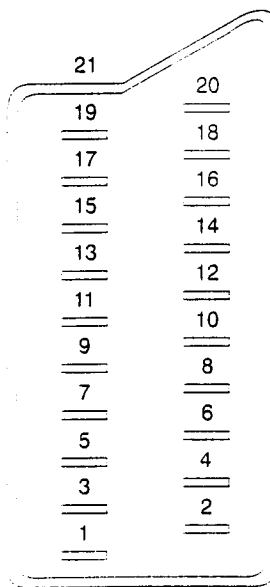
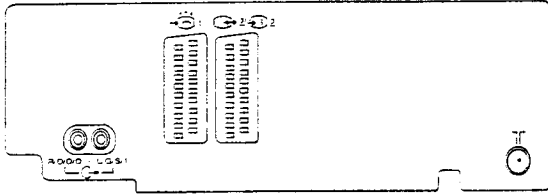
When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.

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



How to replace the fuse.
 Open the fuse compartment with the screwdriver blade and replace the fuse.

21 pin connector (♂-1 ♀ 2 / ♀ 4)



Pin No.	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
2	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedance : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance : More than 10kohm*
7	○	●	●	Blue input	0.7 ± 3dB, 75 ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10k ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 ± 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	—	—	Red input	0.7 ± 3dB, 75 ohms, positive
	—	○	○	(S signal) chroma input	0.3 ± 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V ± 3dB, 75ohms, positive sync: 0.3V(-3+10dB)
20	○	—	—	Video input	1V ± 3dB, 75ohms, positive sync: 0.3V(-3+10dB)
	—	○	○	Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync: 0.3V(-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.

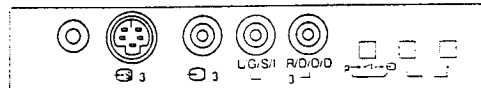


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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD. DUE TO A LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED : ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLIMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE. LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE !!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE : SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY.

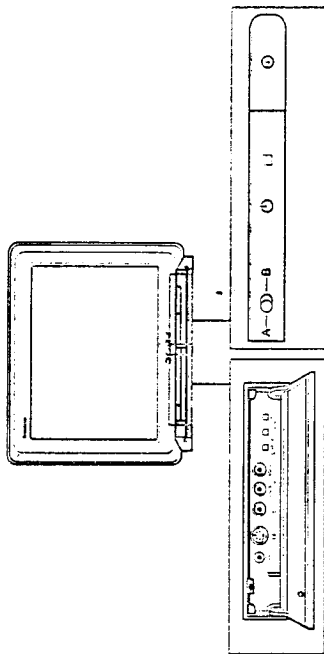
SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Overview

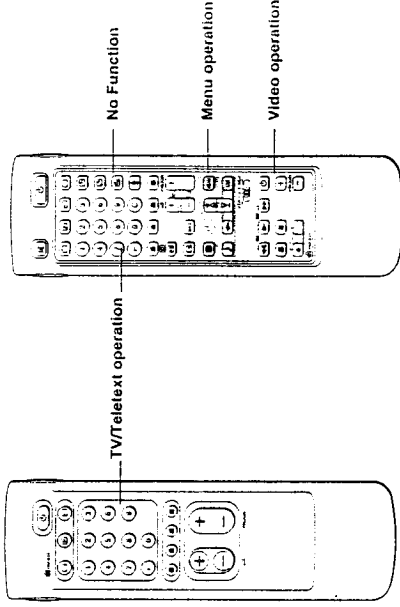
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set - front



Symbol	Name	Refer to page
ⓐ	Main power switch	13
ⓑ	Standby indicator	13
ⓒ	Stereo A/B indicators	15
ⓓ	Headphones jack	20
ⓔ	Input jacks (S-video/video/audio)	20
ⓕ	Function selector (Programme/volume/input)	13
ⓖ	Adjustment buttons for function selector	13

Remote Commander RM-831



Note
The SAT button does not operate with this TV.

Simple side

Full-Function side

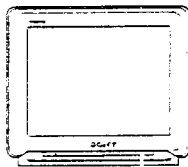
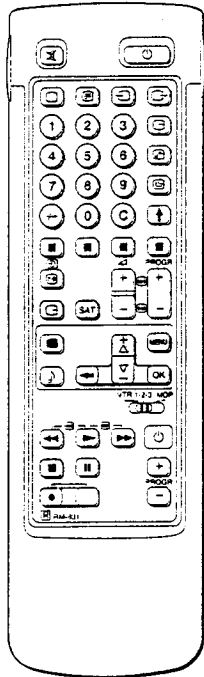
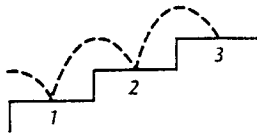
Symbol	Name	Refer to Page
Ⓜ	Mute on/off button	14
Ⓨ	Standby button	13
Ⓩ	TV power on/TV mode selector button	13
ⓐ	Teletext button	14
ⓑ	Input mode selector	14
ⓒ	Output mode selector	21
ⓓ	Number buttons 1, 2, 3, 4, 5, 6, 7, 8, 9, and 0	13
ⓔ	Double-digit entering button	13
ⓕ	Direct channel entering button	10
ⓖ	Volume control button	13
ⓗ	Programme selectors	13
ⓓ	Teletext page access buttons	17
ⓑ	Picture adjustment button	15
ⓓ	Sound adjustment button	15
ⓓ	On-screen display button	14
ⓓ	Teletext hold button	17
ⓓ	Time display button	14
ⓓ	Fasttext buttons	17

Symbol	Name	Refer to Page
MENU	Menu on / off button	7
⏏	Select buttons	7
OK	OK (confirming) button	7
⏪	Back button	7

Symbol	Name	Refer to Page
VTR1/2/3	Video equipment selector	22
MDP	Video equipment operation buttons	22

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Step 3 Tuning in to TV Stations



①

To go back to main menu:
Keep pressing ←.

To go back to the normal TV picture:
Press MENU. Normal TV picture will be restored after one minute if menu functions are not selected.

Note on the Demo function:
If you choose Demo on the main menu, you can see a sequential demonstration of the menu functions. Press MENU to stop the function.

Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 60 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

Before you begin

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

1 Choose a language

- 1 Depress \odot on the TV.
The TV will switch on. If the standby indicator on the TV is lit, press \odot or a number button on the Remote Commander.
- 2 Press the MENU button.
The LANGUAGE menu appears. (See Fig. 1)
- 3 Select the language you want with $\Delta+$ or $\nabla-$, and then press OK.

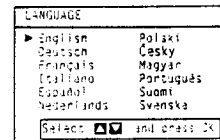
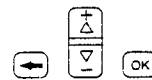


Fig. 1.



2 Display the Menu

Press the ← button.
The main menu appears. (See Fig. 2)

Now, choose one of the methods described overleaf:

“Preset Channels Automatically”

or

“Preset Channels Manually”.

It is recommended to choose

“Preset Channels Automatically”.

Then the channels are automatically stored as follows:

Programme 1	–	BBC1
Programme 2	–	BBC2
Programme 3	–	ITV
Programme 4	–	CH4 or S4C

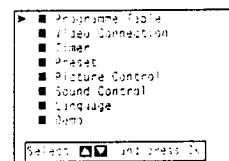


Fig. 2.

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Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting: Press \leftarrow on the Remote Commander.

Notes:

- After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see "Using the Programme Table" on page 16.

- You can sort the programme positions to have them appear on screen in the order you like. For details, see "Sorting Programme Positions" on page 10.

- Programme names are automatically taken from Teletext if available. If not please refer to page 11 "Captioning a station name" for further information.

3 Preset channels automatically

- 1 Select Preset with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears. (See Fig. 3.)
- 2 Select Auto Programme with $\Delta+$ or $\nabla-$ and press OK. The AUTO PROGRAMME menu appears. (See Fig. 4.)
- 3 Press OK repeatedly until the first element of the "PROG" number is highlighted.
- 4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with $\Delta+$ or $\nabla-$ or the number buttons (e.g. For "04", select "0" here) and press OK. The second element of "PROG" will be highlighted.
- 5 Select the second element of the double-digit number with $\Delta+$ or $\nabla-$ or the number buttons (e.g. For "04", select "4" here) (See Fig. 5.) and press OK.
- 6 The automatic channel presetting starts.

When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons. (Press MENU to restore normal TV picture).

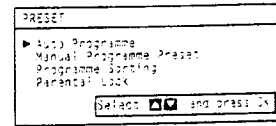


Fig. 3.

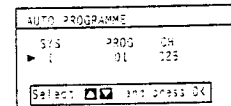


Fig. 4.

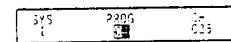


Fig. 5.

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.

If you have made a mistake:
 Press \leftarrow to go back to the previous position.
 To go back to main menu
 Keep pressing \leftarrow .
 To go back to the normal TV picture
 Press MENU.

3 Preset channels manually

- 1 Select Preset with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears. (See Fig. 6.)
- 2 Select Manual Programme Preset with $\Delta+$ or $\nabla-$ and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)

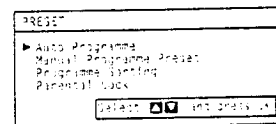


Fig. 6.

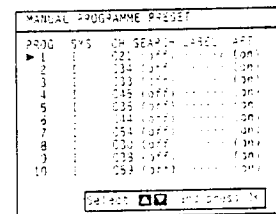


Fig. 7.

To tune in a channel by frequency:
 After selecting F in step 6, enter three digits using the number buttons. Press OK.

Please refer to "Television Channel Number Guide" on page 24.

- 3 Using $\Delta+$ or $\nabla-$, select the programme position (number button) to which you want to preset a channel, and press OK.
- 4 Keep pressing $\nabla-$ to select programme numbers higher than 10.
- 5 Select, if necessary, a video input source (EXT) with $\Delta+$ or $\nabla-$. Then press OK. The first element of the CH position will be highlighted. (See Fig. 8.)
- 6 Using $\Delta+$ or $\nabla-$, select C (to preset a regular channel), or F (to tune in by frequency) and press OK. The first element of the "CH" number will be highlighted. If you have selected EXT in step 5, select the video input source with $\Delta+$ or $\nabla-$. (See Fig. 9.)

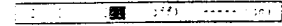


Fig.8.

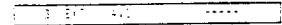


Fig.9.

There are two ways to preset channels. If you know the channel number, go to step "7-Manual",

or

if you don't know the channel number, go to step "7- Search".

7 Manual

- a Select the first element of the "CH" number with $\Delta+$ / $\nabla-$ or the number buttons and press OK. The second element of the "CH" number will be highlighted.
- b Select the second element of the number with $\Delta+$ / $\nabla-$ or the number buttons. The selected number appears. (See Fig. 10.)
- c Press OK. The "SEARCH" position is highlighted and the selected channel is now stored. (See Fig. 11.)
- d Press OK until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.



Fig.10.



Fig.11.

If you have made a mistake:
 Press \leftarrow to go back to the previous position.
 To go back to main menu Keep pressing \leftarrow .
 To go back to the normal TV picture Press MENU.

7 Search

- a Press OK repeatedly until the colour of the SEARCH position changes.
- b Start searching for the channel with $\Delta+$ (up) or $\nabla-$ (down). The CH position changes colour. (See Fig. 12.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)
- c Press OK if you want to store this channel. If not, press $\Delta+$ or $\nabla-$ to continue channel searching.
- d Press OK until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.

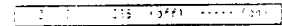


Fig.12.

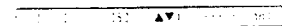
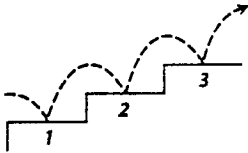


Fig.13.

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

Additional Presetting Functions

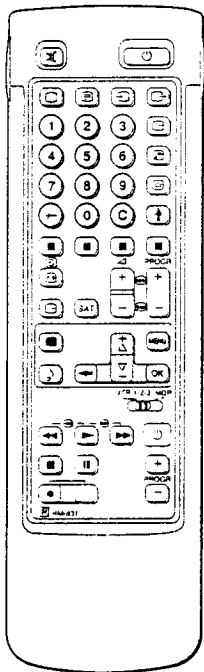


This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

Before you begin

- Check that the Full Function side of the Remote Commander is visible
- Locate the Menu operation buttons.

PROGRAMME SORTING



For higher programme positions:
The display scrolls automatically.

If you have made a mistake:
Press **←** to go back to the previous position.

To go back to main menu:
Keep pressing **←**.

To go back to the normal TV picture:
Press MENU.

Sorting Programme Positions

With this function, you can sort the programme positions to a preferable order.

- 1 Press MENU to display the main menu.
- 2 Select Preset with **△+** or **▽-** and press OK. The PRESET menu appears.
- 3 Select Programme Sorting with **△+** or **▽-** and press OK. The PROGRAMME SORTING menu appears. (See Fig. 14.)
- 4 Using **△+** or **▽-**, select the programme position you want to move to another programme position and press OK. The colour of the selected position changes. (See Fig. 15.)
- 5 Using **△+** or **▽-**, select the programme position to which you want to move the selected programme and press OK. Now the two programme positions have been sorted. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to exchange other programme positions.

PROGRAMME SORTING					
PROG	CH	LABEL	PROG	CH	LABEL
0	AV1	VHS	8	029	ITV
1	---	---	9	035	C4
2	029	8801	10	032	---
3	021	8802	11	032	---
4	---	---	12	022	---
5	1020	BMM	13	022	---
6	022	---	14	022	---
7	022	---	15	022	---

Move PRG to PR--

Fig. 14.

7	AV1	VHS	8	029	ITV
---	-----	-----	---	-----	-----

Fig. 15.

PROGRAMME SORTING					
PROG	CH	LABEL	PROG	CH	LABEL
1	AV1	VHS	8	022	---
2	---	---	9	035	C4
3	029	ITV	10	022	---
4	022	8801	11	022	---
5	021	8802	12	022	---
6	---	---	13	022	---
7	1020	BMM	14	022	---
8	022	---	15	022	---

Move PRG to PR--

Fig. 16.

Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

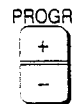
- 1 Press C on the Remote Commander. The indication "C" appears on the screen.
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.



MANUAL PROGRAMME PRESET

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.



- 1 Press MENU to display the main menu.
- 2 Select Preset with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with $\Delta+$ or $\nabla-$ and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 17.)
- 4 Using $\Delta+$ or $\nabla-$, select the programme position which you want to skip and press OK. The "SYSTEM" position changes colour.
- 5 Press $\Delta+$ or $\nabla-$ until --- appears in the SYSTEM position. (See Fig. 18.)
- 6 Press OK. (See Fig. 19.) When you select programmes using the PROGR +/- buttons, the programme position will be skipped.
- 7 Repeat steps 4 to 6 to skip other programme positions.

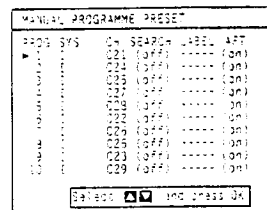


Fig. 17.

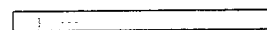


Fig. 18.



Fig. 19.

MANUAL PROGRAMME PRESET

Captioning a Station Name

Programme names are automatically taken from Teletext if available. However you can also "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- 1 Press MENU to display the main menu.
- 2 Select Preset with $\Delta+$ or $\nabla-$ and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with $\Delta+$ or $\nabla-$ and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 20.)
- 4 Using $\Delta+$ or $\nabla-$, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- 5 Select a letter or number with $\Delta+$ or $\nabla-$ and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select - and press OK. (See Fig. 21.)
- 6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 22.)
- 7 Repeat steps 5 and 6 to caption names for other channels.

If you have made a mistake:
Press \leftarrow to go back to the previous position.

To go back to main menu:
Keep pressing \leftarrow .

To go back to the normal TV picture:
Press MENU.

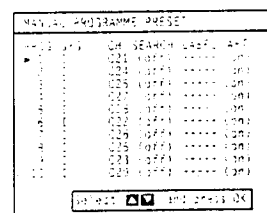


Fig. 20.

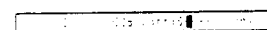


Fig. 21.

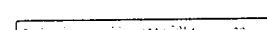
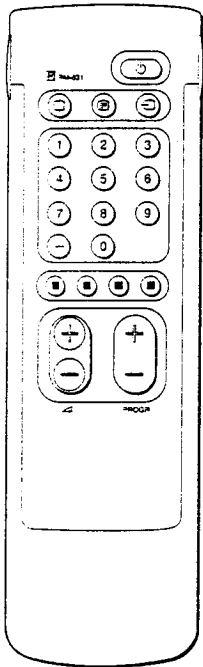




Fig. 22.

Watching the TV




If no picture appears when you depress  on the TV

and if the standby indicator on the TV is lit, the TV is in standby mode. Press  or one of the number buttons to switch it on.

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on


Depress  on the TV.

Switching off temporarily


Press  on the Remote Commander.

The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again

Press , **PROGR +/-**, or one of the number buttons on the Remote Commander.

Switching off completely

Depress  on the TV.

Selecting TV Programmes


Press **PROGR +/-** or press number buttons.

To select a double-digit number

Press **-/-**, then the numbers.





For example, if you want to choose 23, press **-/-**, 2, and 3.

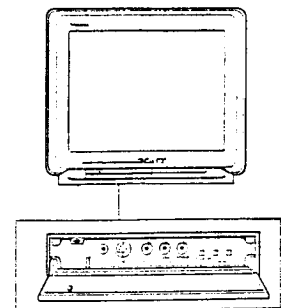
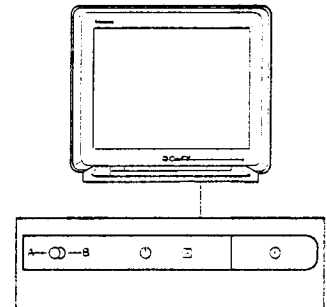
Adjusting the Volume

Press  +/-.

Operating the TV Using the Buttons on the TV

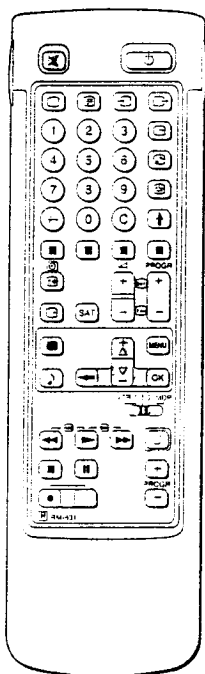
With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press  button repeatedly until the programme number,  (for volume), or  (for video input picture) appears. Then adjust with the **-/+** buttons.
- Press **-/+** buttons to switch on the TV from the standby mode.
- Press **-/+** simultaneously to reset picture and sound controls to the factory preset level (RESET symbol  is displayed).



For details of the teletext operation, refer to page 17.

For details of the video input picture, refer to page 21.



To make the Programme Table disappear
Press MENU.

Watching Teletext or Video Input

Watching teletext

- Press to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fasttext operation.
- Press (PAGE +) or (PAGE -) for the next or preceding page.
- To go back to the normal TV picture, press .

Watching a video input picture

Press repeatedly until the desired video input appears. To go back to the normal TV picture, press .

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press once to display all the indications. They will disappear after some seconds.
- Press twice to have the programme number and label stay on screen. Press twice again to make indications disappear.

Muting the sound.

Press .
To resume normal sound, press again.

Displaying the time

Press . This function is available only when teletext is broadcast.
To make the time display disappear, press again.

Displaying of the Programme Table

Press OK. A Programme Table will be displayed on the right side of the TV screen (See. Fig.28)

Selecting of TV programmes

Press PROGR +/- or select the desired programme position using + or - and press OK.

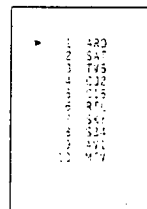
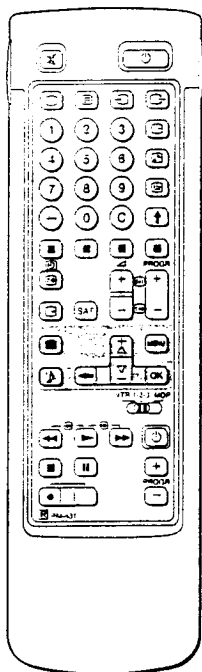


Fig.28.

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8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

Adjusting and Setting the TV Using the Menu

PICTURE CONTROL SOUND CONTROL



Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can change the aspect ratio of the TV display for wide screen effect. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones (🎧).

- 1 Press **■** (for picture) or **♪** (for sound) on the Remote Commander.
or
Press MENU and select Picture Control or Sound Control, then press OK.
The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 29 or Fig. 30)
- 2 Using **△+** or **▽-**, select the item you want to adjust and press OK. The selected item changes colour. (See Fig. 31)
- 3 Adjust the setting with **△+** or **▽-** and press OK. The cursor appears beside the next item (at the left margin). (See Fig. 32)
For the effect of each control, see the table below.
- 4 Repeat steps 2 and 3 to adjust other items.

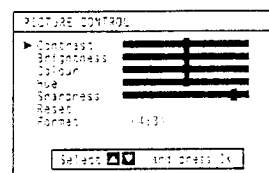


Fig. 29.

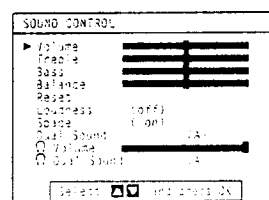


Fig. 30.



Fig. 31.

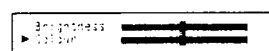


Fig. 32.

If you have made a mistake:
Press **←** to go back to the previous position.
To go back to the main menu:
Keep pressing **←**.
To go back to the normal TV picture:
Press MENU.

Note:
HUE is only available for NTSC colour system.

Note on LINE OUT:
The audio level and the dual sound mode output from the **G** jack on the rear correspond to the HEADPHONES VOLUME and DUAL SOUND settings.


When watching a video input source with stereo sound:
You can select DUAL SOUND to change the sound.

Effect of each control












PICTURE CONTROL	Effect
Contrast	Less — — More
Brightness	Darker — — Brighter
Colour	Less — — More
Hue	Greenish — — Reddish
Sharpness	Softer — — Sharper
Reset	Resets picture to the factory preset levels.
Format	4 : 3 : Normal 16 : 9 : Wide screen effect

SOUND CONTROL	Effect
Volume	Less — — More
Treble	Less — — More
Bass	Less — — More
Balance	More left — — More right
Reset	Resets sound to the factory preset levels.
Loudness	off : Normal on : When listening to low volume sound.
Space	off : Normal on : Obtain acoustic sound effect.
Dual Sound	A : left channel B : right channel stereo mono The selected mode of the A- □ -B indicator on the TV lights up. (for NICAM broadcasts see next page)
Headphones:	
🎧 Volume	Less — — More
🎧 Dual Sound	A : left channel B : right channel STEREO MONO

Selecting Nicam Broadcasts*

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, "NICAM" appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A--B indicators, on the TV will switch off.

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 15.

Service Being Broadcast	Action	Effect	Indication on the TV A-  -B
Stereo	Press $\Delta+$ or $\nabla-$	Stereo Nicam (Mono 2-Channel)	 
		mono	 
Press $\Delta+$ or $\nabla-$ again to return to stereo Nicam (mono 2-channel)			
Bilingual	press $\Delta+$ or $\nabla-$	Channel A Nicam	 
		Channel B Nicam	 
		mono	 
Press $\Delta+$ or $\nabla-$ again to return to channel A Nicam			

* Depending on availability of service.

PROGRAMME TABLE

To go back to the normal TV picture:
Press MENU.

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

- From the main menu, select Programme Table with $\Delta+$ or $\nabla-$ and press OK.
The PROGRAMME TABLE menu appears. (See Fig. 33)
To scroll to higher programme numbers, press $\nabla-$.
- To select a programme using this menu select the programme number with $\Delta+$ or $\nabla-$ and press OK.
The selected programme appears.

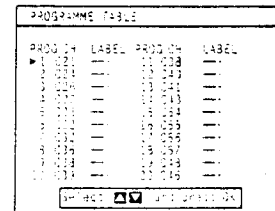


Fig. 33.

TIMER

To switch off the timer:
Select "OFF" in step 3.

To check the remaining time:
Press \square .

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

- From the main menu, select Timer with $\Delta+$ or $\nabla-$ and press OK.
The TIMER menu appears. (See Fig. 34.)
- Press OK.
The time period option changes colour.
- Select the time period with $\Delta+$ or $\nabla-$.
The time period (in minutes) changes as follows:
10→20→30→40→50→60→70→80→90
↑ _____ OFF _____ ↓
- After selecting the time period, press OK.
The cursor moves back to the left margin and the timer starts counting.
One minute before the TV switches into standby mode, a message is displayed on the screen.

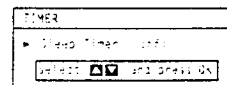
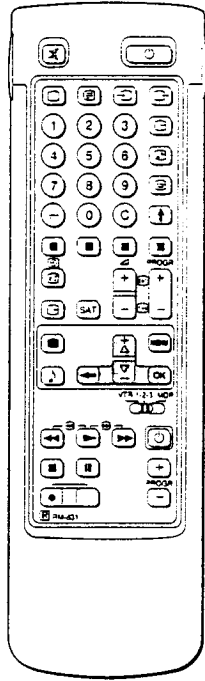


Fig. 34.

Teletext



Note:
Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander:

You can switch teletext on and off, operate Fasttext, and directly select page numbers.

Note:
Fasttext operation is only possible, if the TV station broadcasts Fasttext signals.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- 1 Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press to switch on teletext.
A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text available" is displayed on the information line at the top of the screen.

To switch teletext off

Press .

Selecting a teletext page

With direct page selection

Use the number buttons to input the three digits of the chosen page number.

If you have made a mistake, type in any three digits. Then re-enter the correct page number.

With page-catching

- 1 Select a teletext page with a page overview (e.g. index page).
- 2 Press OK. Using or , select the desired page. "Page Catching" will be displayed on the information line. Press OK. The requested page will appear in a few seconds.

Press to resume normal teletext reception.

Accessing next or preceding page

Press (PAGE +) or (PAGE -).
The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press once in teletext mode or twice in TV mode.
- Press again to resume normal teletext reception.

Preventing a teletext page from being updated

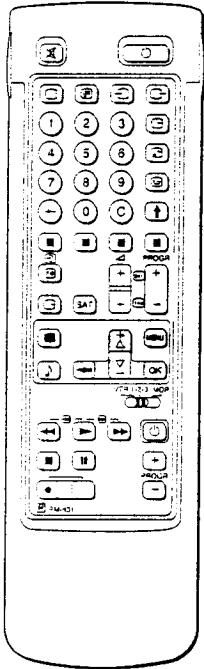
- Press (HOLD). The HOLD symbol " is displayed on the information line.
- Press to resume normal teletext reception.

Using Fasttext

With Fasttext you can access pages with one key stroke. When a Fasttext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.

Using the Teletext Menu



Note:
Some of the features may not be available depending on the Teletext service.

Note on Subtitles:
If the subtitles are not broadcast on page 888, please select the subtitle page using the number buttons.

To cancel the request:
Select "Subpage" and press OK.

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- 1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 35)
- 2 Using $\Delta+$ or $\nabla-$, select the teletext function you want and press OK. (See Fig. 36)

USER PAGES/PRESET USER PAGES

See page 19 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down the screen. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 37)

Press $\Delta+$ for Top to enlarge the upper half. For Bottom keep pressing $\nabla-$, to enlarge the lower half. Press OK for Full to resume the normal size.

Press ⊞ to resume normal teletext reception.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be captured (The symbol changes colour) (see Fig. 38).

Press ⊞ to view the requested page.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line "REVEAL ON/OFF" will be displayed. (See Fig. 39)

Using $\Delta+$ or $\nabla-$, select ON to reveal the information or OFF to conceal it again.

Press ⊞ to resume normal teletext reception.

TIME PAGE

This function is not available.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using $\text{PROGR}+/-$ or the number buttons. (e.g. enter 0002 for the second page of a sequence).

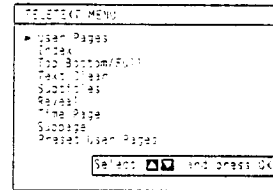


Fig. 35.

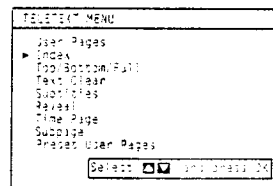


Fig. 36.

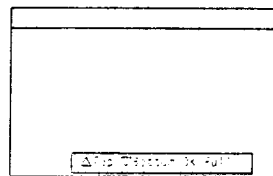


Fig. 37.

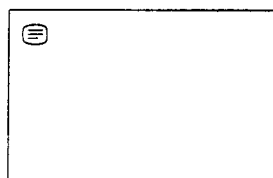


Fig. 38.

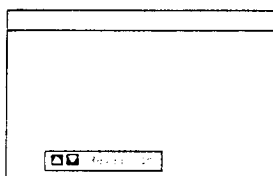


Fig. 39.

If two broadcasting stations use the same Teletext:

You can preset one bank to 2 different programme positions.

User Page Bank System

You can store up to 30 pages in the "Teletext page bank system". In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

- 1 Press **MENU** (if Teletext is not on already) and **MENU** to show the TELETEXT MENU display.
- 2 Select **PRESET USER PAGES** with **Δ+** or **∇-** and press **OK**.
- 3 Select the desired bank with **Δ+** or **∇-** and press **OK**. The cursor will go to the first position (P1) of the preferred pages.
- 4 Input the three digits of your first preferred page with the number buttons and press **OK**. The cursor will go to the second position.
- 5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press **OK** without inserting any number. After having finished the presetting press **OK** repeatedly until the cursor appears besides the next bank at the left margin.
- 6 Select **Allocate Bank** with **Δ+** or **∇-** and press **OK**.
- 7 Select the programme position for which you have preset pages with **Δ+** or **∇-** and press **OK**. (See Fig. 40)
- 8 Select the desired bank with **Δ+** or **∇-** (Banks A to E are available) and press **OK**.
- 9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages

- 1 Select **MENU**.
- 2 Select **User Pages** with **Δ+** or **∇-** and press **OK**. A table of the stored preferred pages will be displayed. (See Fig. 41)
- 3 Select the desired page with **Δ+** or **∇-** and press **OK**. The page will be displayed after some seconds.

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P 3 to the yellow one and P 4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-handed corner of the TV screen. When the page number changes colour, the page is available. Press the coloured button again to display the page.

PRESET USER PAGES										
BANK	P1	P2	P3	P4	P5	P6				
A	300	301	302	303	304	305	306	307	308	309
B	300	301	302	303	304	305	306	307	308	309
C	300	301	302	303	304	305	306	307	308	309
D	300	301	302	303	304	305	306	307	308	309
E	300	301	302	303	304	305	306	307	308	309
Allocate Bank										
PRG	1951	BANK	3001	3002	BANK					
00	195	-	24	47	0					
01	3001	A	24	47	0					
02	3002	C	24	47	0					

Fig.40.



USER PAGES - BANK 3	
▶	PAGE 300
	PAGE 200
	PAGE 203
	PAGE 304
	PAGE 314
	PAGE 199

Fig. 41.

Connecting and Operating Optional Equipment

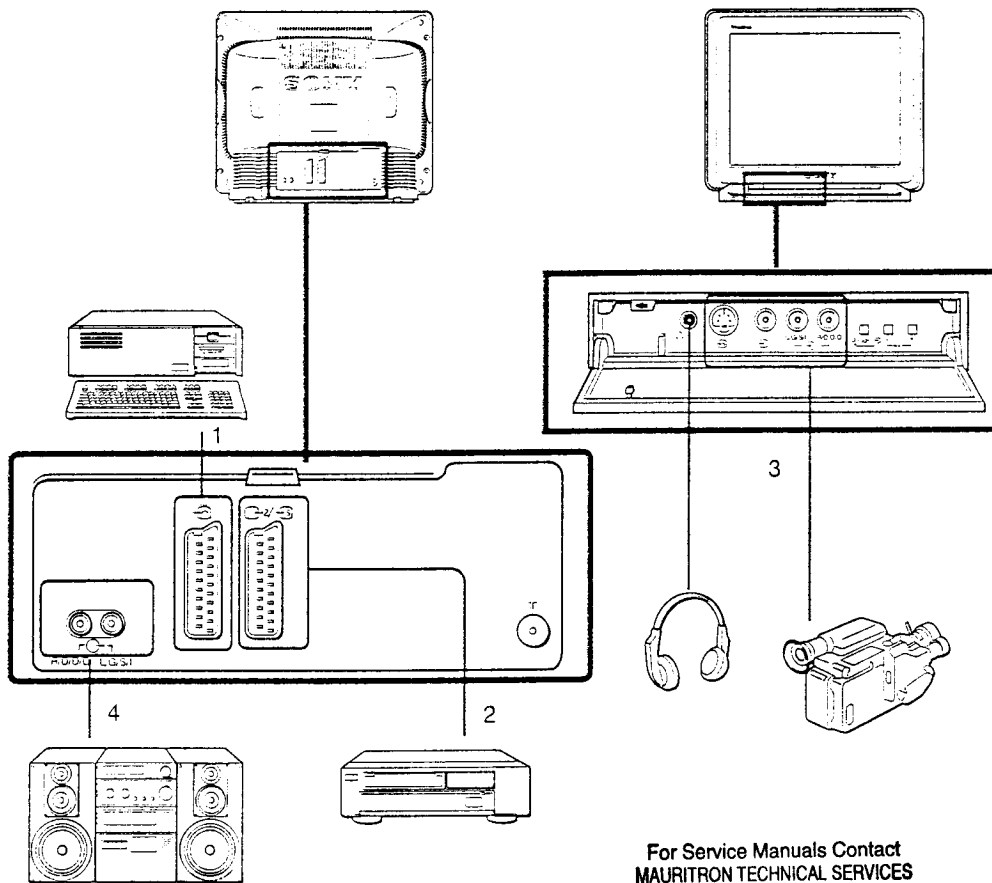
Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as VTRs, video disc players, and stereo systems.


To connect a VTR using the  terminal: Connect the aerial output of the VTR to the aerial terminal  of the TV.

We recommend that you tune in the signal to programme number "0". For details see "Preset Channels Manually" on page 8.

If the picture or the sound is distorted: Move the VTR away from the TV.



S video input (Y/C input): Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with 2 S Video input jacks through which these separated signals can be input directly.

When connecting a monaural VTR: Connect only the white  jack to both the TV and VTR.

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Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 No inputs	Audio signal (variable)

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen, and which output source is selected. You can also select them on the menu display.

- 1 Select Video Connection with $\Delta+$ or $\nabla-$ and press OK. The VIDEO CONNECTION menu appears. (See Fig. 42)

You can see which source is selected for the TV and for the output. If you want to select the input and output on this menu, go on to the next step.

- 2 Select TV Screen (input source for the TV screen) or output (output source) with $\Delta+$ or $\nabla-$ and press OK. One of the source items changes colour. (See Fig. 43)
- 3 Select the desired source with $\Delta+$ or $\nabla-$. (See Fig. 44)

For details about each source, see the table on page 21.

- 4 Press OK.

The selected source is confirmed, and the cursor appears. (See Fig. 45)

- 5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

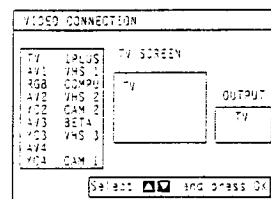


Fig. 42.

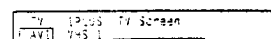


Fig. 43.

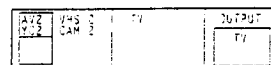


Fig. 44.

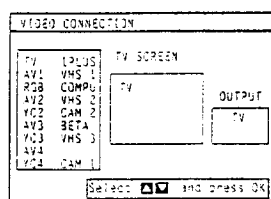
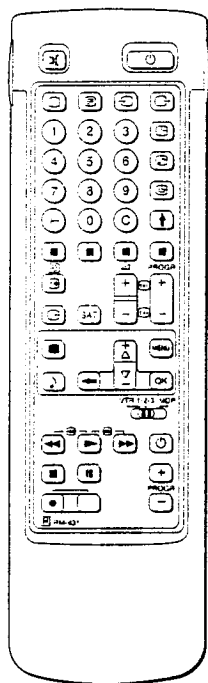


Fig. 45.



When recording
When you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8mm or VHS VTRs or video disc players.

Tuning the Remote Commander to the equipment

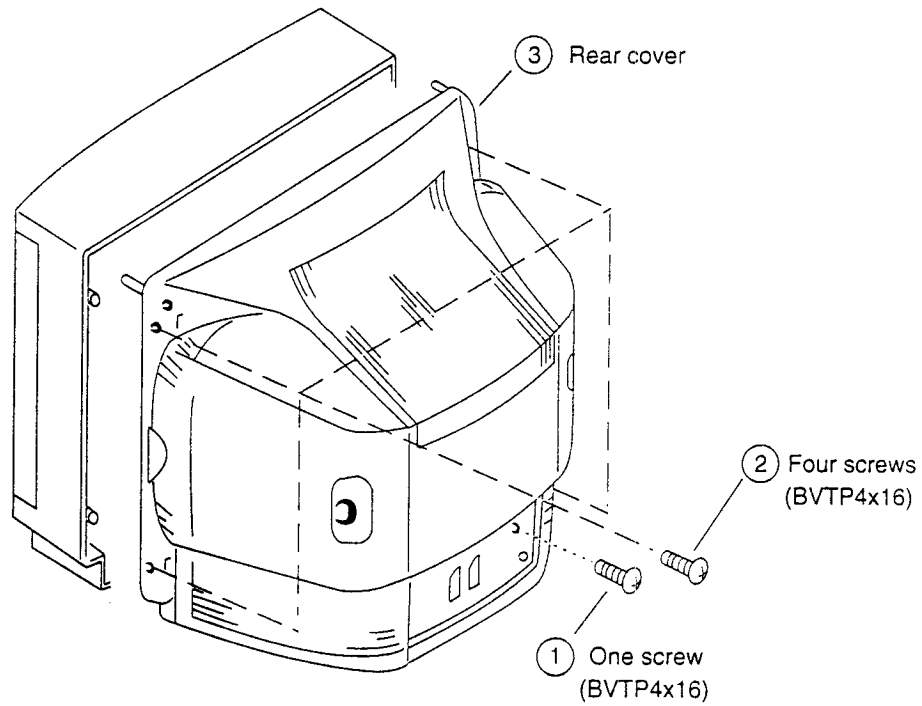
- 1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:
 - VTR 1: Beta or ED Beta VTR
 - VTR 2: 8mm VTR
 - VTR 3: VHS VTR
 - MDP: Video disc player
- 2 Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

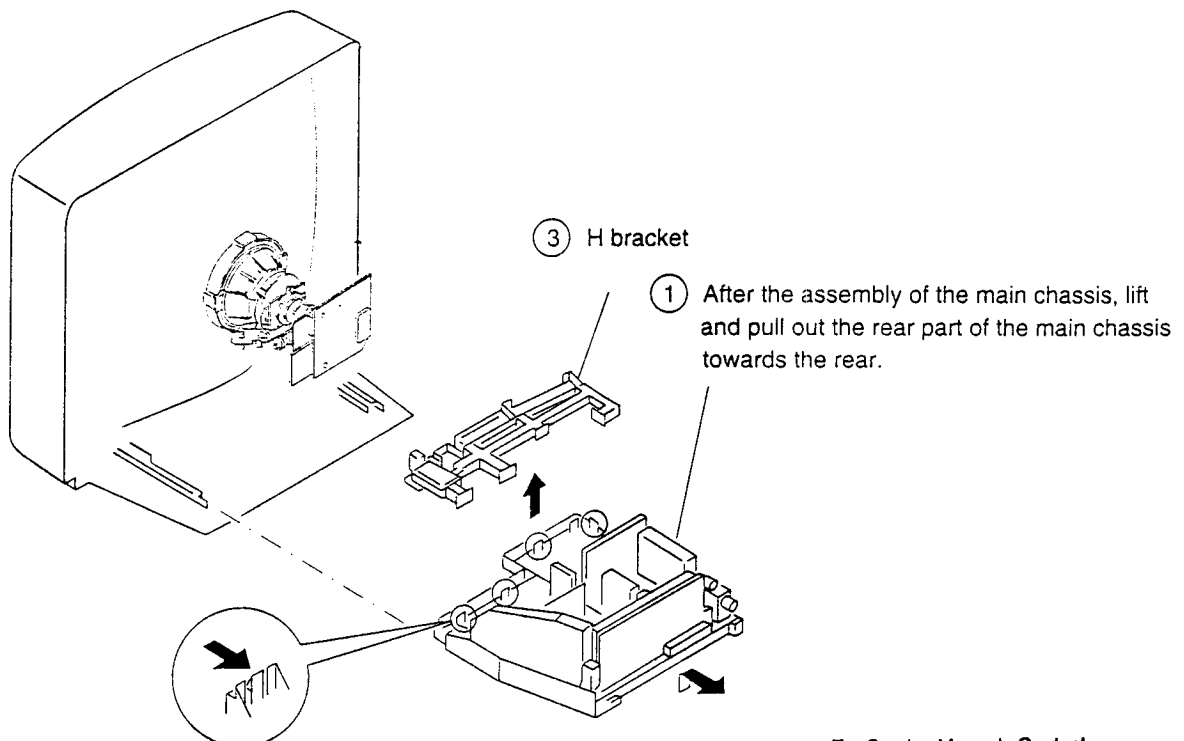
If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

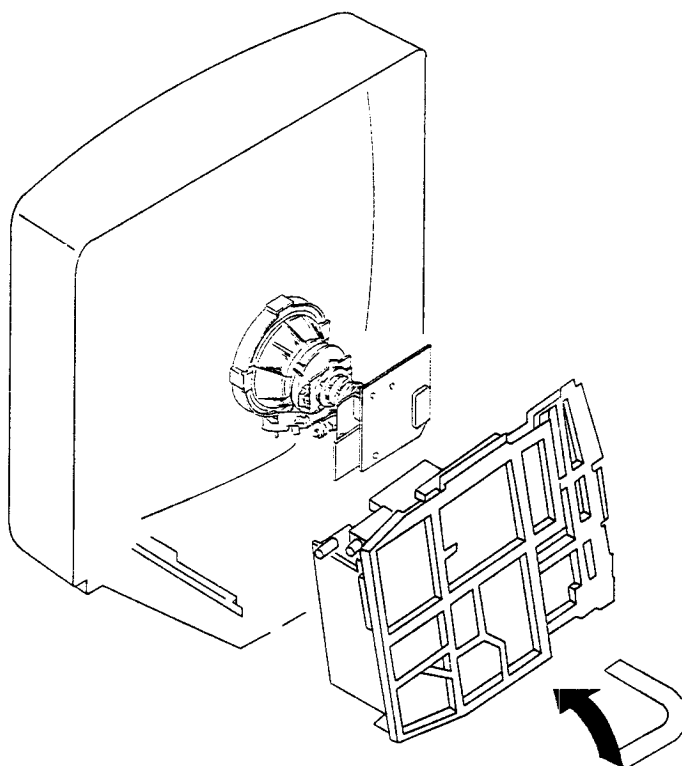


2-2. CHASSIS ASSY REMOVAL

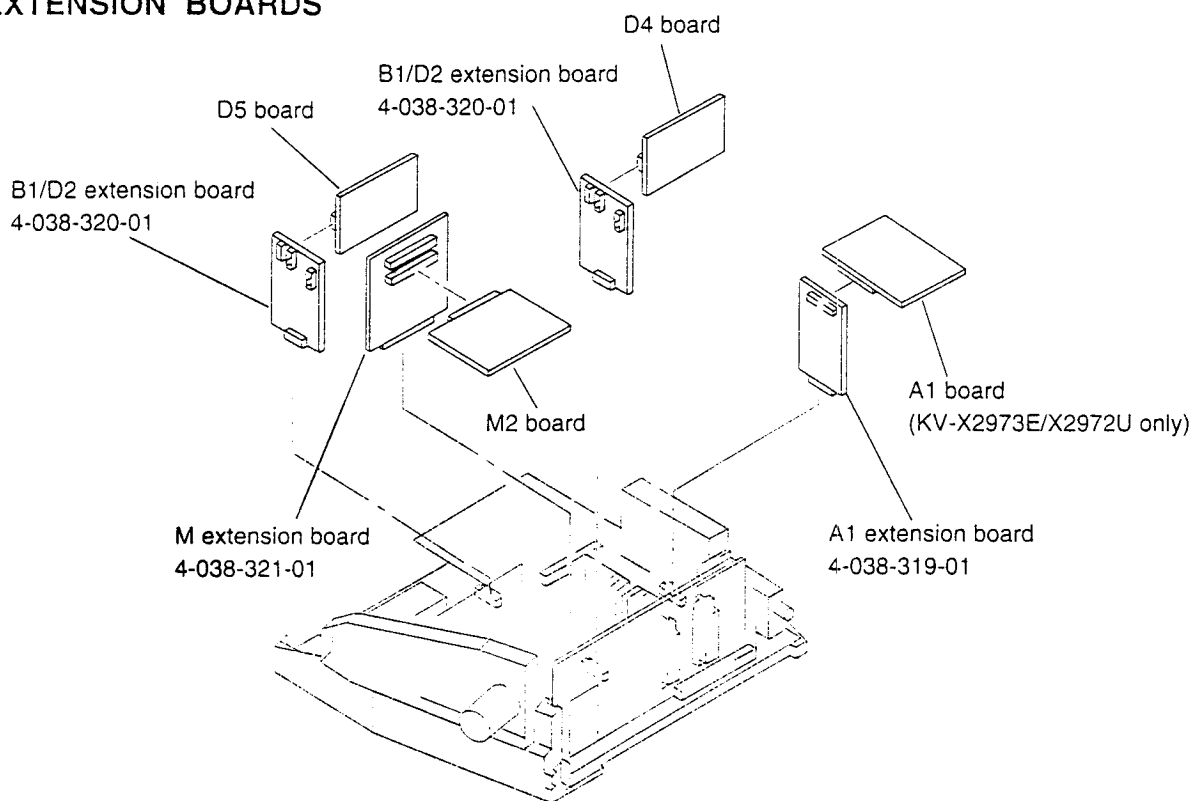


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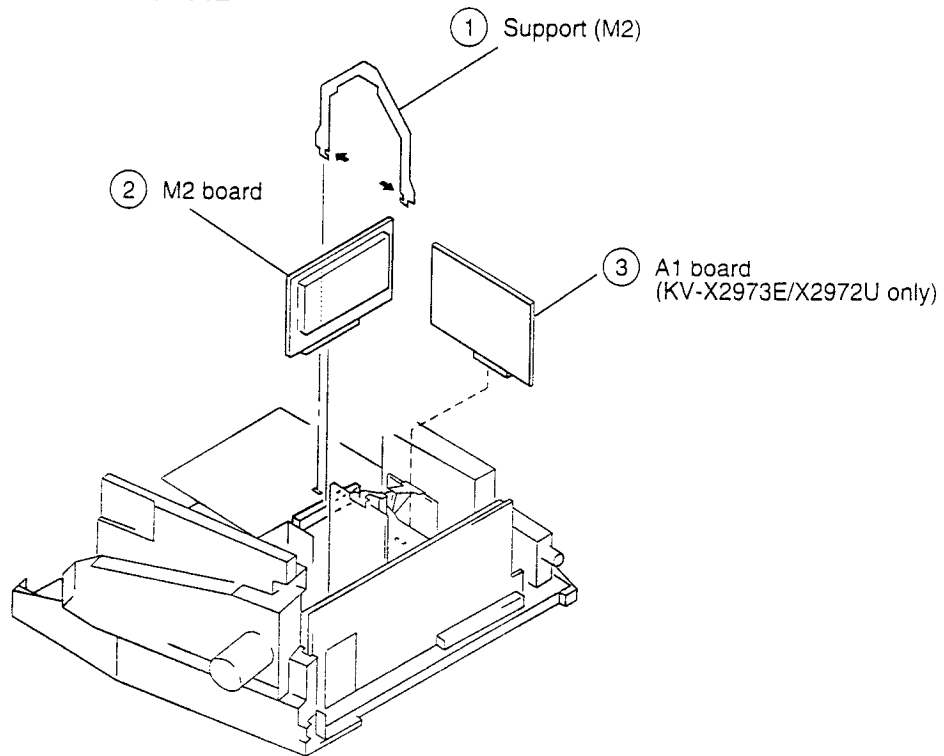
2-3. SERVICE POSITION



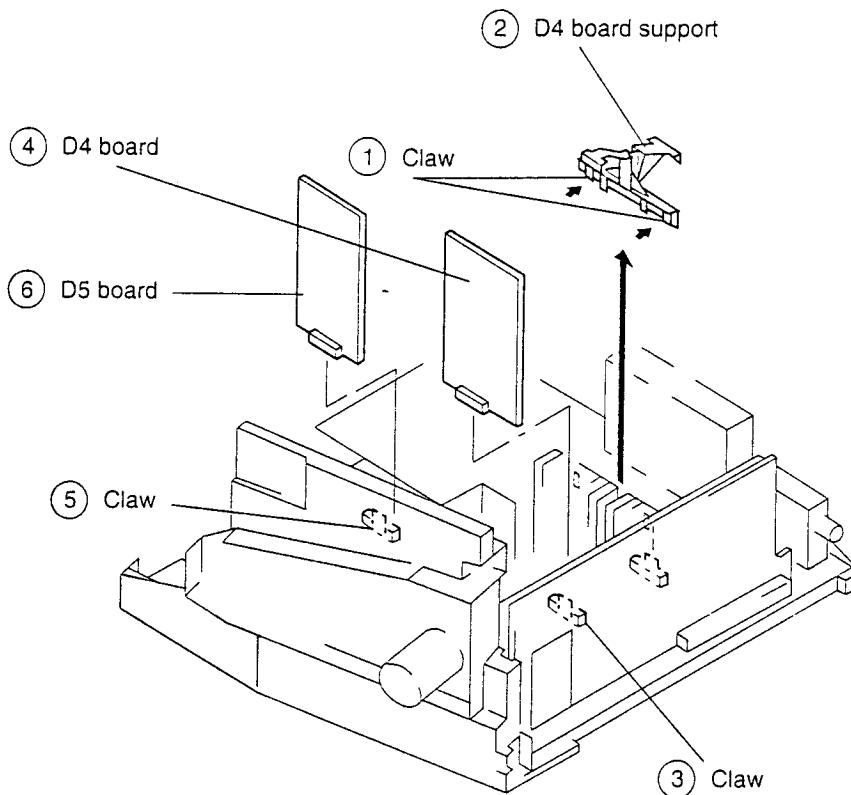
2-4. EXTENSION BOARDS



2-5. M2 AND A1 BOARD REMOVAL

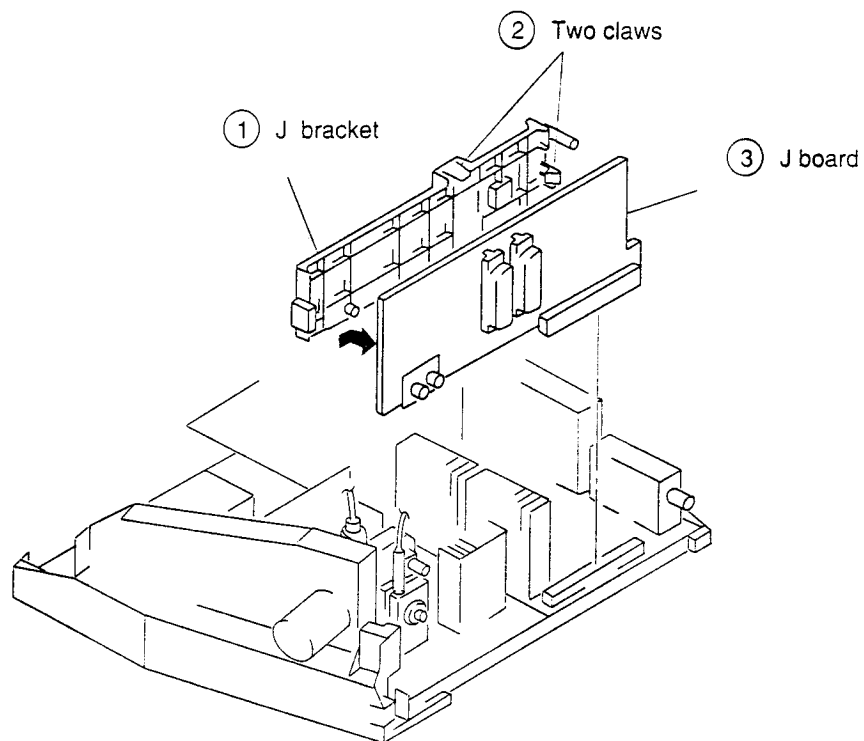


2-6. D4 AND D5 BOARD REMOVAL

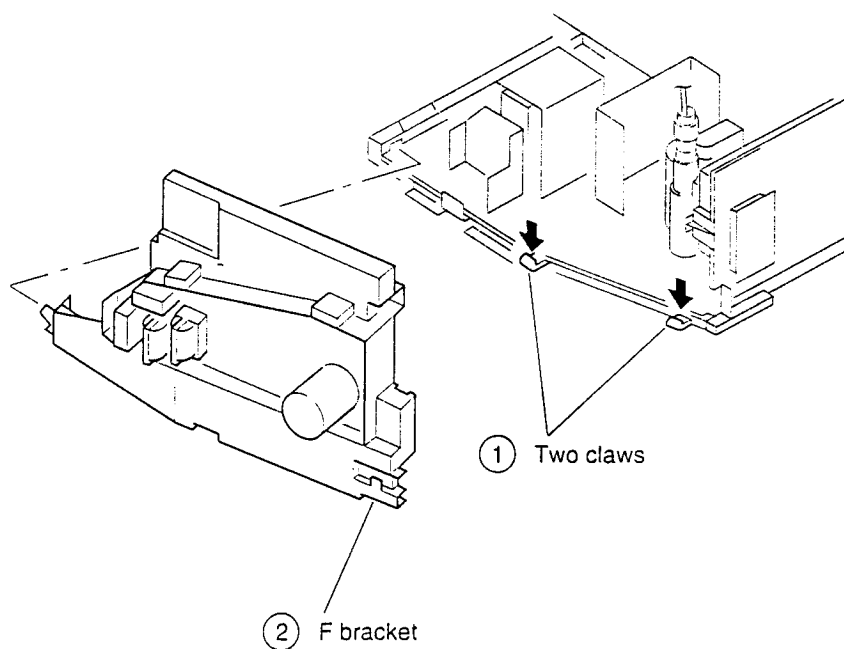


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2-7. J BOARD REMOVAL

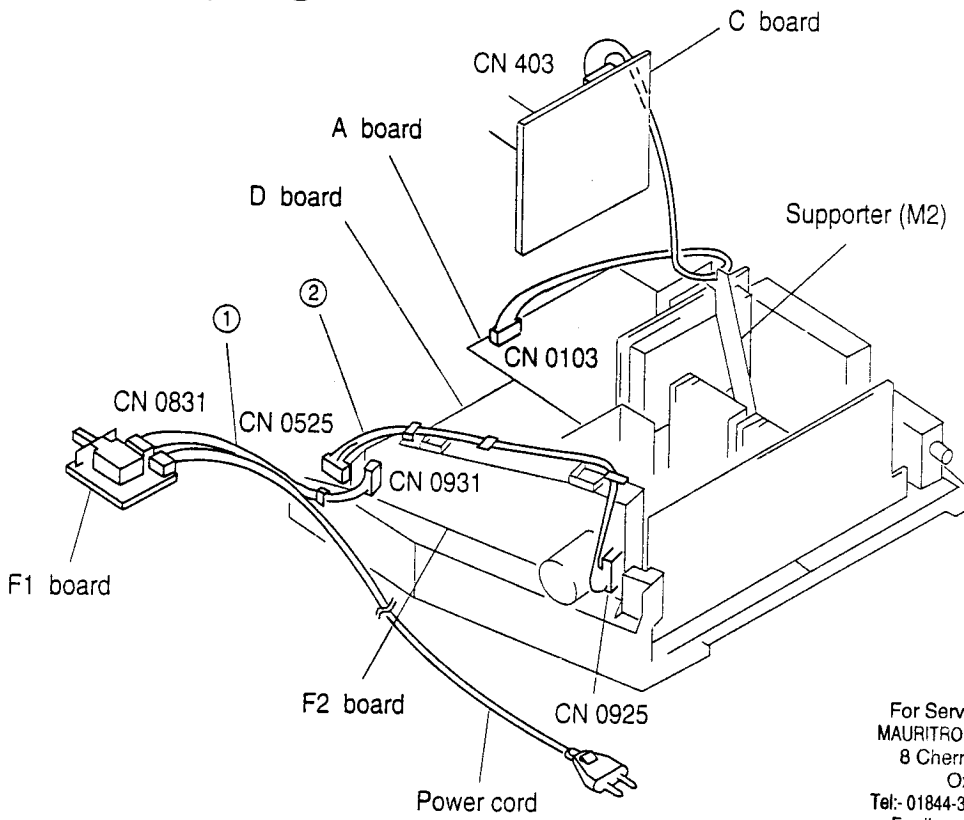


2-8. F BRACKET REMOVAL



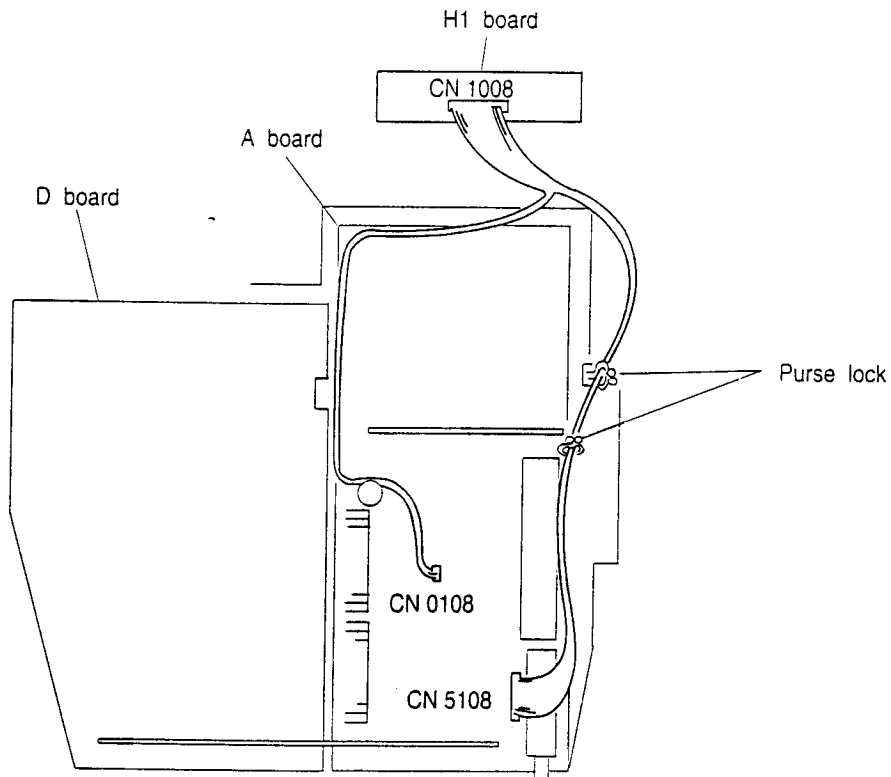
2-9-1. WIRE DRESSING

* Keep distance between ① and ②

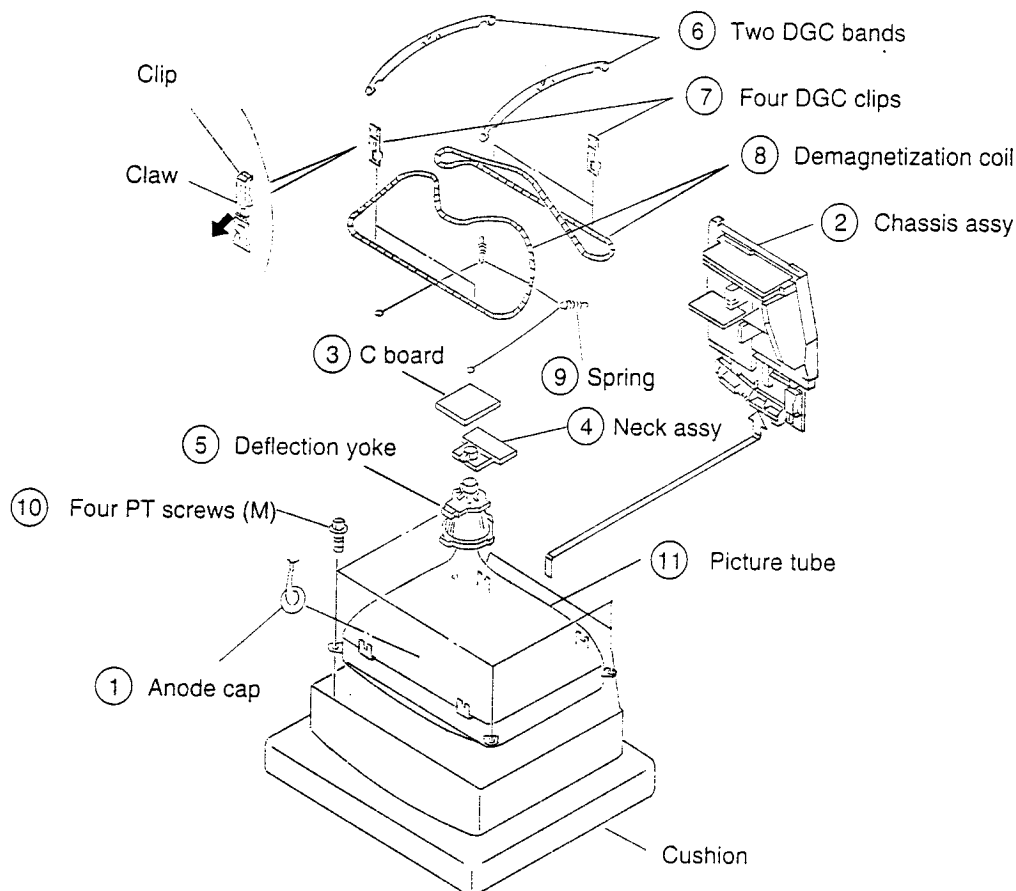


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2-9-2. WIRE DRESSING



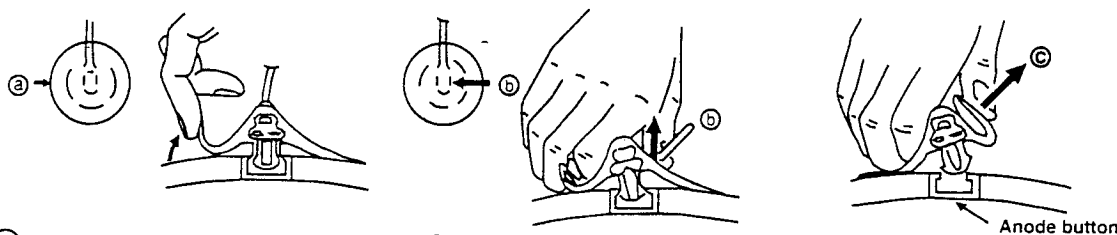
2-10. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

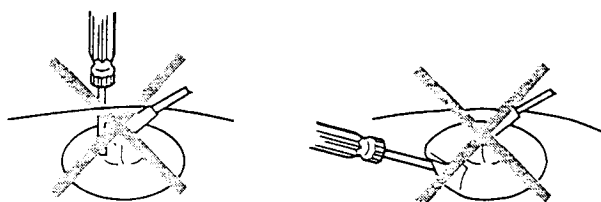
• REMOVING PROCEDURES.



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ③

• HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built into the rubber.
- ③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :
 - Contrast 80% (or remote control normal)
 - Brightness 50%

- Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note: Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.

Contrast	}	normal
Brightness		
2. Position neck assy as shown in Fig.3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig.3-1 - 3-3)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig.3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig.3-4)

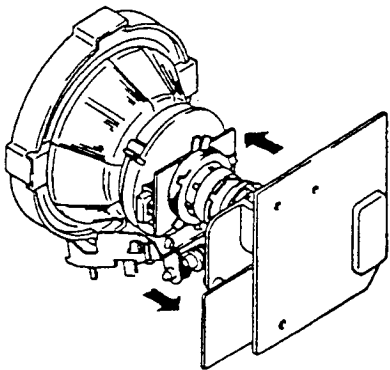


Fig.3-1

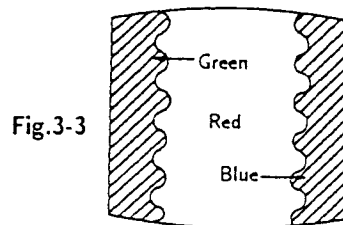
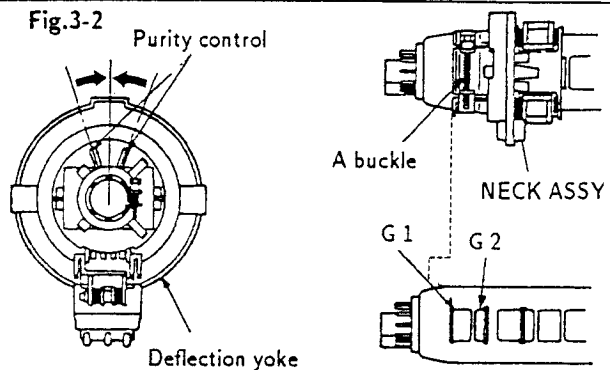


Fig.3-3

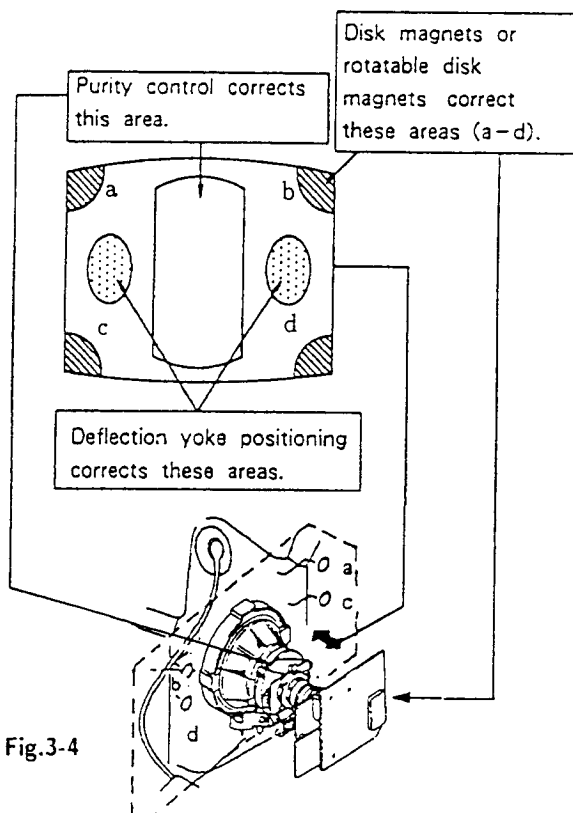


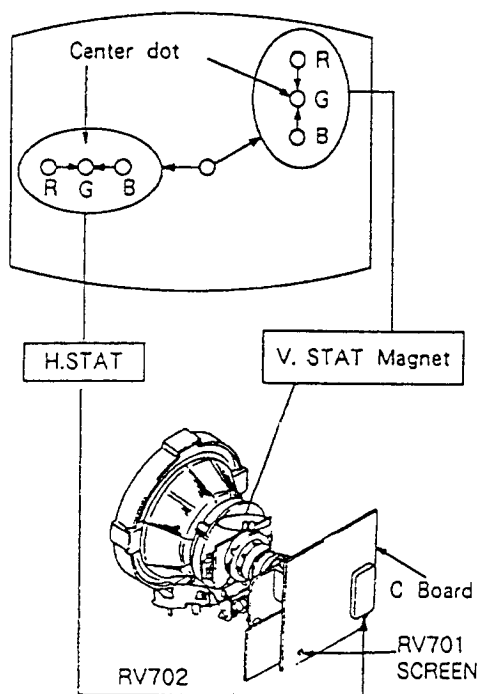
Fig.3-4

3-2. CONVERGENCE

Preparations :

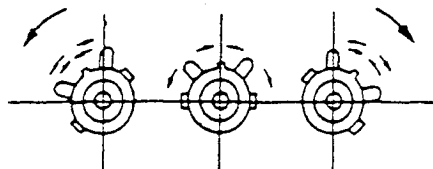
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

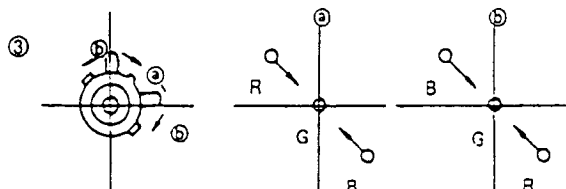
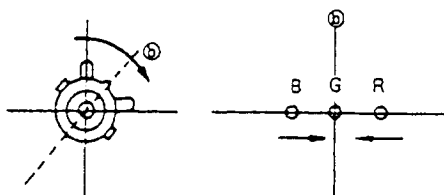
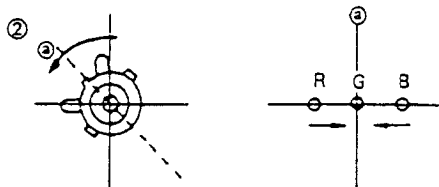
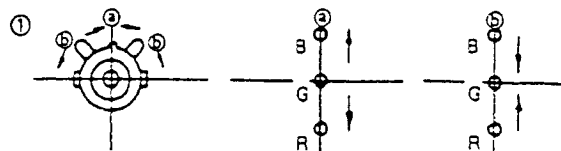


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below. (In this case, the H.STAT variable resistor and the V. STAT magnet influence each other)

- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

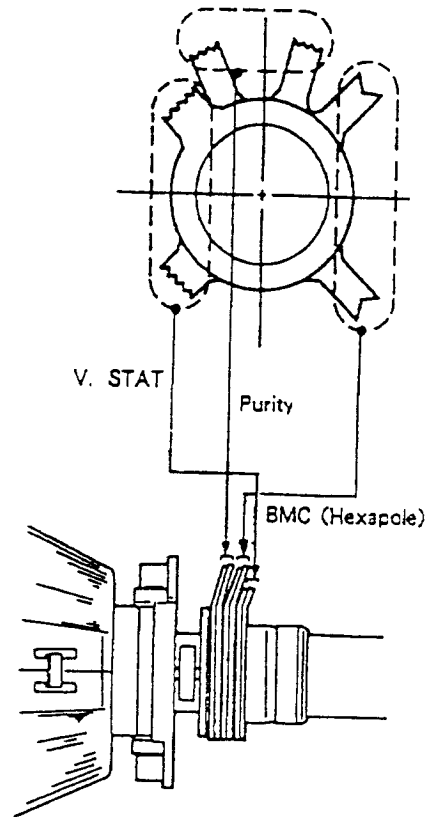
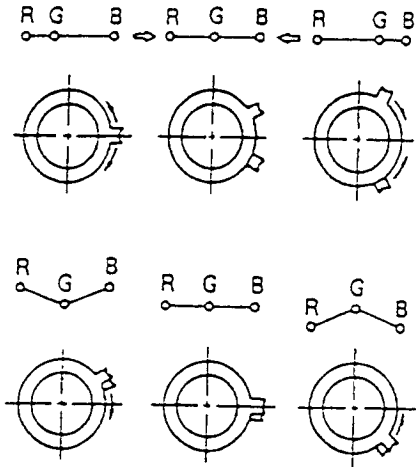


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



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• Operation of BMC (Hexapole) Magnet



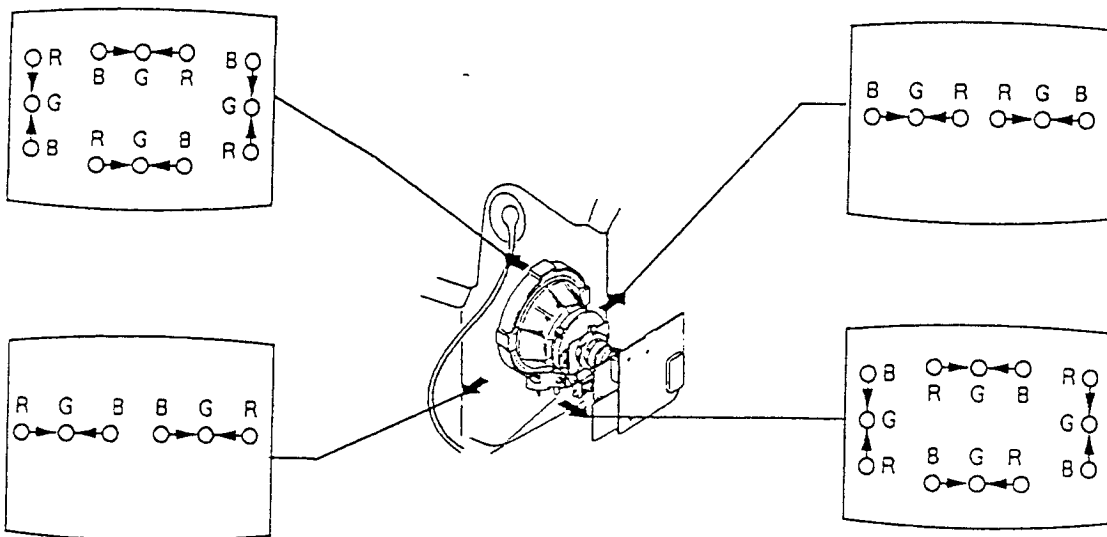
- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

(2) Dynamic convergence adjustment

Preparations :

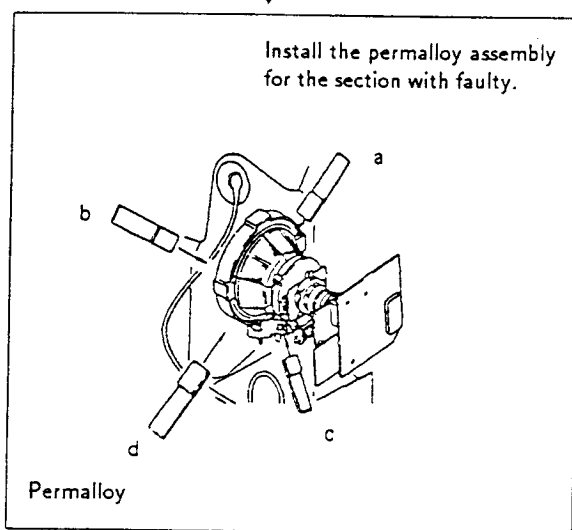
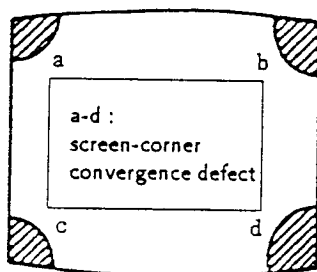
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
1. Slightly loosen the deflection yoke screws.

2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



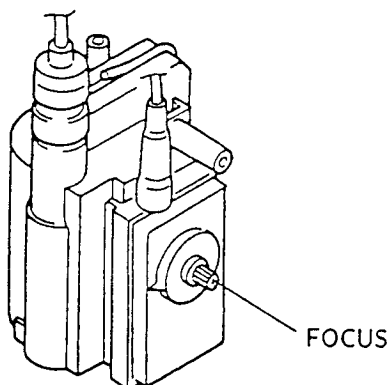
(3) Screen corner convergence

If you cannot adjust corner convergence properly, correct them with permalloy.



3-3. FOCUS

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

Screen G2 Setting

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

White balance adjustment

1. Receive all-white signal.
2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" to how to enter service mode.)
3. Select CXA1587S on menu.

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.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.

4. Set picture to MAX.
5. Adjust G-DRIVE B-DRIVE with , buttons so that the white balance becomes optimum.
6. Press button to write the data for each item.
7. Set picture to MIN.
8. Adjust G-AUTO CUT OFF, B-AUTO CUT OFF, R-MANUAL CUT OFF, G-MANUAL CUT OFF and B-MANUAL CUT OFF with , buttons so that the white balance becomes optimum.
9. Press button to write the data for each item.

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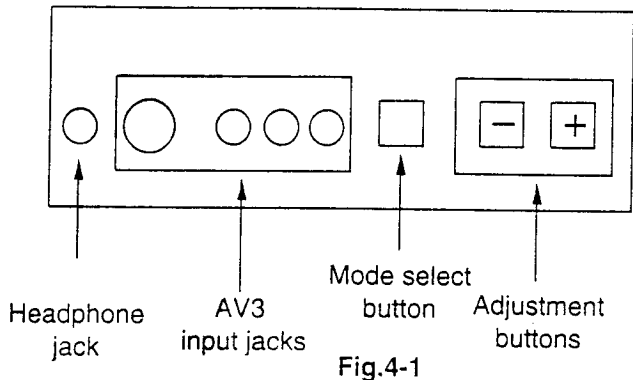
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-831

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.



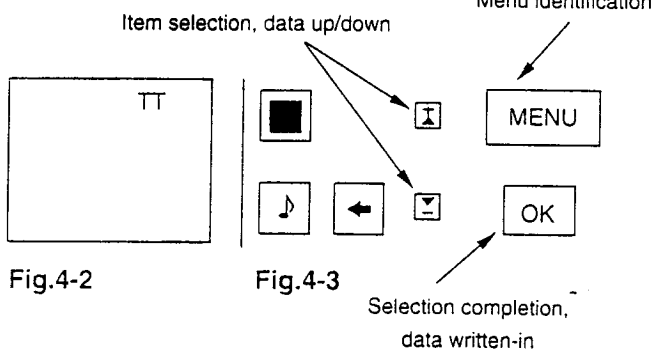
4. Press the \blacktriangle and \blacktriangledown buttons on the remote commander and move > to DEMO.
5. Press **OK** button to proceed to the next menu.
6. The menu of fig. 4-5 will appear on the screen. Select the DEVICE corresponding to the adjustment item from the table on the next page.

DEVICES	
Initialize	
> CXA1587	
CXD2018	
TDA9145	
CXA1526	
TDA6612	
CX7948A	
P/P service	
Select < > and press OK	

Fig. 4-5

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

Command operation in service mode.



3. Press the **MENU** button on the remote commander to obtain the menu on the screen.

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

Fig.4-4

7. If adjustment item is CXA1587, press the \blacktriangledown button and move > to CXA1587.

CXA1587

Item No	Adjustment item	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	12
06	RGB PICTURE	7
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
> 09	SUB BRIGHT	ADJ.
10	SUB HUE	8
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

8. Press **OK** button to get the next selection menu.
9. Press \blacktriangledown button and move > to the adjustment item and press **OK** button.
10. Press \blacktriangle and \blacktriangledown buttons to change the data in order to comply with each standard.
11. Press **OK** button to write data.
12. Turn off the power to quit service mode when adjustments are completed.

CXA1587

Item No	Adjustment item.	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	12
06	RGB PICTURE	7
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	8
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.
21	GAMMA LEVEL	8
22	DC TRANSFER RATIO	3
23	DYNAMIC PICTURE	2
24	Y FILTER ADJ	ADJ.
25	Y DELAY TIME	15
26	Y DELAY SWITCH 1	0
27	Y DELAY SWITCH 2	1
28	SHARPNESS LIMIT	ON
29	TRAP	OFF
30	H SHIFT	36
31	DA TEST	ON
32	PRE/OVER	12
33	SUB FOCUS	2
34	SUB SHARPNESS	3
35	R MUTE	OFF
36	G MUTE	OFF
37	B MUTE	OFF
38	AGING 1 WHT	OFF
39	AGING 2 BLK	ON
40	AKB OFF	ON
41	INHIBIT RGB	ON
42	FORCED RGB	OFF
43	V/2 V	OFF
44	AXIS	PAL
45	HUE OFF	OFF
46	V EXTENSION	OFF
47	AFC 1	1
48	AFC 2	0
49	AFC	OFF
50	REF. POSITION	0

CXD2018

Item No	Adjustment item.	Data Amount
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	12
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 SCAN	OFF
19	INTERLACE	ON
20	H SHIFT	26
21	N/S CORRECTION	ADJ.

Typical On Screen Display based values when receiving PAL
Phillips pattern.

TDA6612	ADJ
Stereo-Separation	(31)

Should be adjusted twice, once for 4 : 3 and once for 16 : 9
mode.

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Y FILTER ADJUSTMENT

1. Input a PAL RED pattern.
2. Connect an oscilloscope to pin ① of CN0403 (R OUT) on C board.
3. Enter into service mode and press 3,8.
4. Adjust data by Δ or ∇ to minimize the chroma element at CN0403 pin ①.

SUB BRIGHTNESS ADJUSTMENT

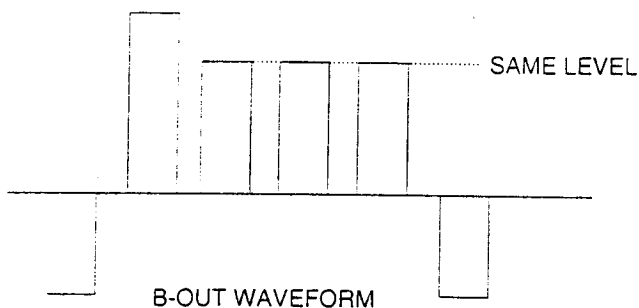
1. Input a Phillips pattern.
2. Enter into service mode and press 23.
3. Adjust data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains a small 100% area on a Black Background.
2. Enter into service mode and press 01 to have PIC max followed by 21.
3. Connect oscilloscope to pin ① of CN0403 (R OUT) and adjust data to obtain 2.5Vp-p.

SUB COLOR ADJUSTMENT

1. Input a PAL color bar signal.
2. Connect an oscilloscope to pin ③ of CN0403 (B OUT) on the C board.
3. Enter into service mode and press 22 of CXA1587, 8 SUB COLOR.
4. Adjust data so that the right sides of the waveform are set to the same level.

**STEREO-SEPARATION ADJUSTMENT**

1. Input a 1kHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
2. Enter into service mode and press 19.
3. Adjust data so that sound is not detected in the Right-ch and the Left-ch.

DRIVE AND CUT-OFF

See direct test mode list attached and refer to sub brightness or such for adjustment method.

DEFLECTION SYSTEM ADJUSTMENT

1. Enter into service mode and select CXD2018.
2. Select and adjust each item in order to obtain the optimum image.

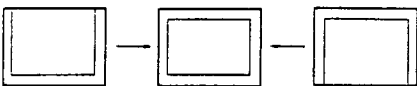
CXD2018

Item No	Adjustment item.	Data Amount
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	12
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 SCAN	OFF
19	NON INTERLACE	ON
20	H SHIFT	26
21	N/S CORRECTION	ADJ.

V SIZE



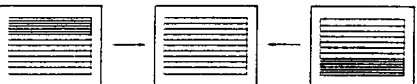
V SHIFT



S CORRECTION



V LINEARITY



H SIZE



PIN AMP



TILT



UPPER CORNER PIN



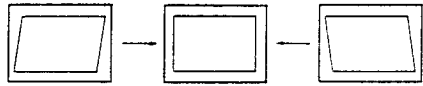
LOWER CORNER PIN



V BOW



ANGLE



H SHIFT



N/S CORRECTION



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

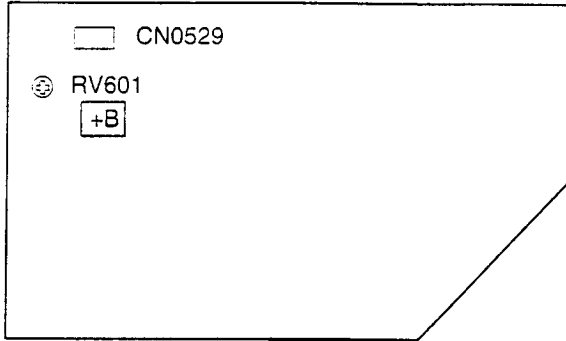
If the menu display prevents accurate adjustment, press to clear, to resume, press once again.

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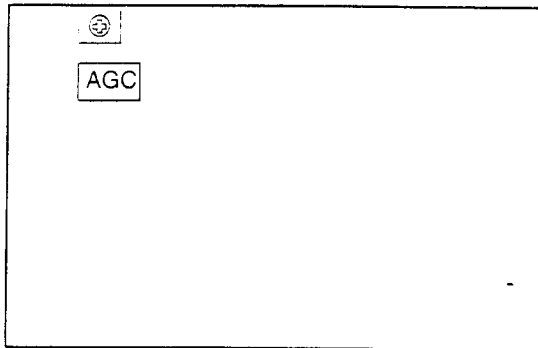
4-2. VOLUME ELECTRICAL ADJUSTMENTS

+B (+135V) ADJUSTMENT (RV601)

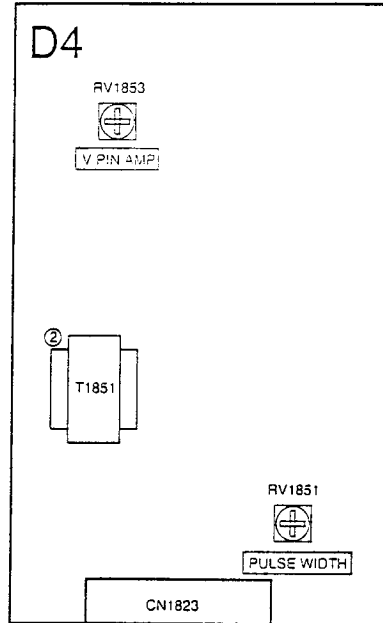
D BOARD



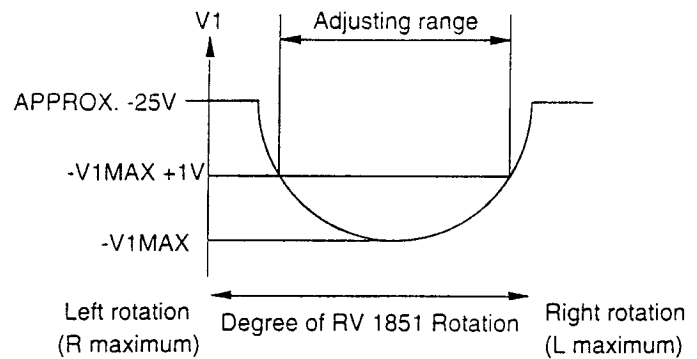
1. Switch on the power to the TV set.
2. Connect a digital multi-meter to pin ① of CN0529 on D board.
3. Adjust RV601 on D board to $+135V \pm 0.5V$.

AGC ADJUSTMENT (IF BLOCK)

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

PULSE WIDTH & V-PIN ADJUSTMENTS (RV 1851/1853)

1. Connect an oscilloscope to pin ② of T1851.
2. Preset RV-1853 to center of its range (mechanical center).
3. Adjust RV-1851 to obtain minimum amplitude.
4. Switch the oscilloscope input to D.C. and adjust RV-1853 to obtain $-33.2 \pm 0.5V$.



4-3. TEST MODE 2 :

Is available by pressing Test button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0 twice, or switch the TV into Stand-by Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing Condition (Volume min., Picture max., Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of μ -Con.)
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	dummy
10	Tenth entry is deleted
11	Balance
12	Hue
13	Display of Software Version and TV set configuration
14	Adjustment of N/S Correction
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM.
17	Preset Level for AV Sources
18	dummy
19	Stereo Separation
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24-29	dummy

30	Tenth entry is deleted
31	Green Drive
32	Blue Drive
33	Green Cut Off (Auto Cut Off)
34	Blue Cut Off (Auto Cut Off)
35	Red Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
36	Green Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
37	Blue Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
38	Y-Filter adjustment (Trap is switched off and TDA9145 is switched in forced NTSC Mode)
39	dummy
40	Tenth entry is deleted
41	Default setting of CXA1587 (Only available in Prog 99)
42	Default setting of CXA2018 (Only available in Prog 99)
43	Default setting of CXA1526 (Only available in Prog 99)
44	(all Port High) Not yet
45	(all Port High) Not yet
46	IR Channel Presetting Mode The channel presetting can be done by a Special IR Transmitter
47-48	dummy
49	Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On -> the NVM will be preset by μ -Controller. (Not the channel data)

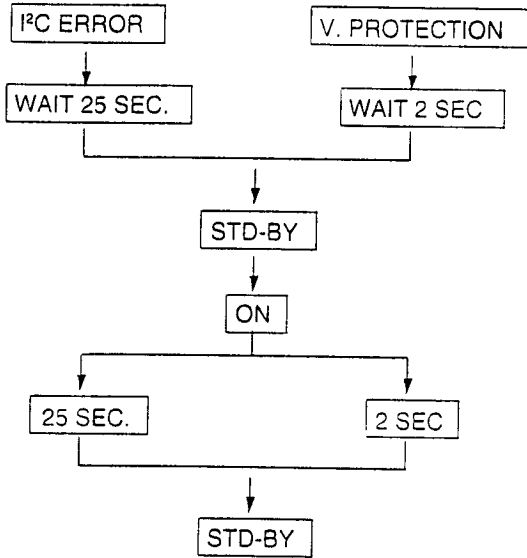
Note: For No 35. 36. 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected. After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched ON and TDA9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by the Speaker-Off button.

4-4. ERROR MESSAGE

Self diagnostic system operates as follows.

- When the microprocessor is unable to receive an acknowledgement back from the device, the LED starts flashing according to the table below.



In the case of more than one error in parallel, the blinking error shows max priority according to the error number (e.g. error 2 and error 5 appear together, then LED,s show error 2).

ERROR TABLE

ERROR COUNT	IC TYPE	FUNCTION
1	I I C BUS	SDA low
2	X24C16	EPROM
4	TDA9145	Colour decoder
5	CXA1587	RGB/Jungle
6	TDA6612	Sound processor
7	CXD2018	V deflection
8	CXA1545	AV switch
11	SDA5248	Text
13		V protection

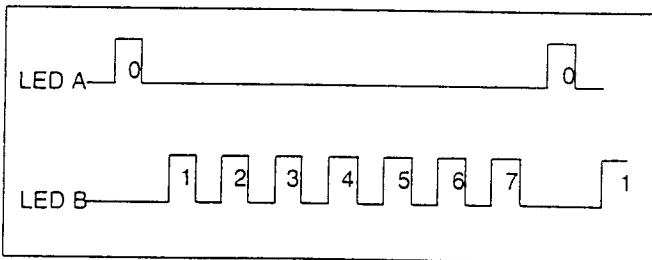
Stand By LED blinking

No 1K return

4-5. ERROR I²C BUS DIAGNOSTIC SYSTEM FOR AE2-B CHASSIS.

For all IC's used in the AE 2-B chassis which are necessary to obtain picture and sound there is an inbuilt I²C Bus diagnostic system.

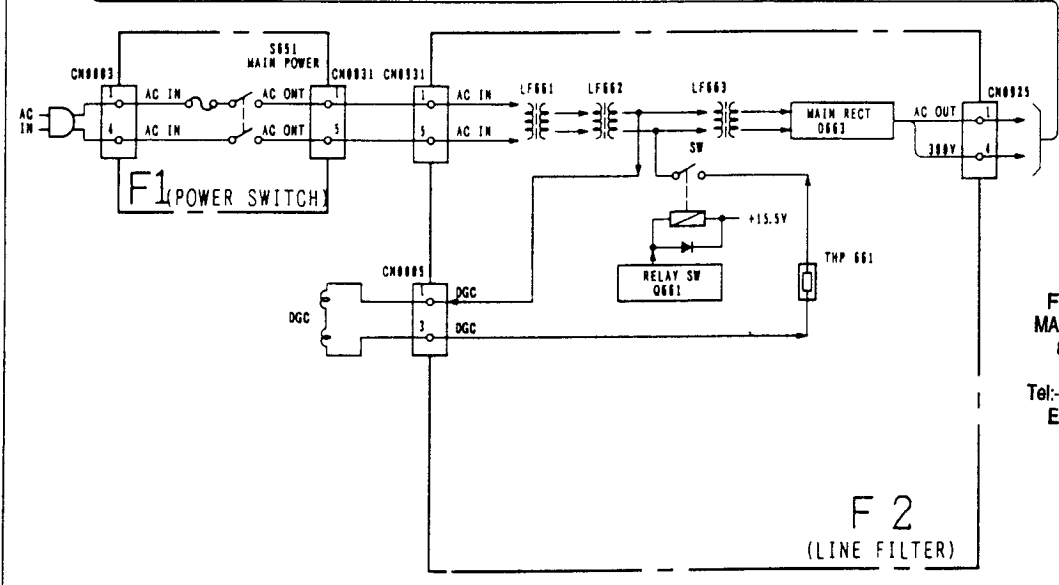
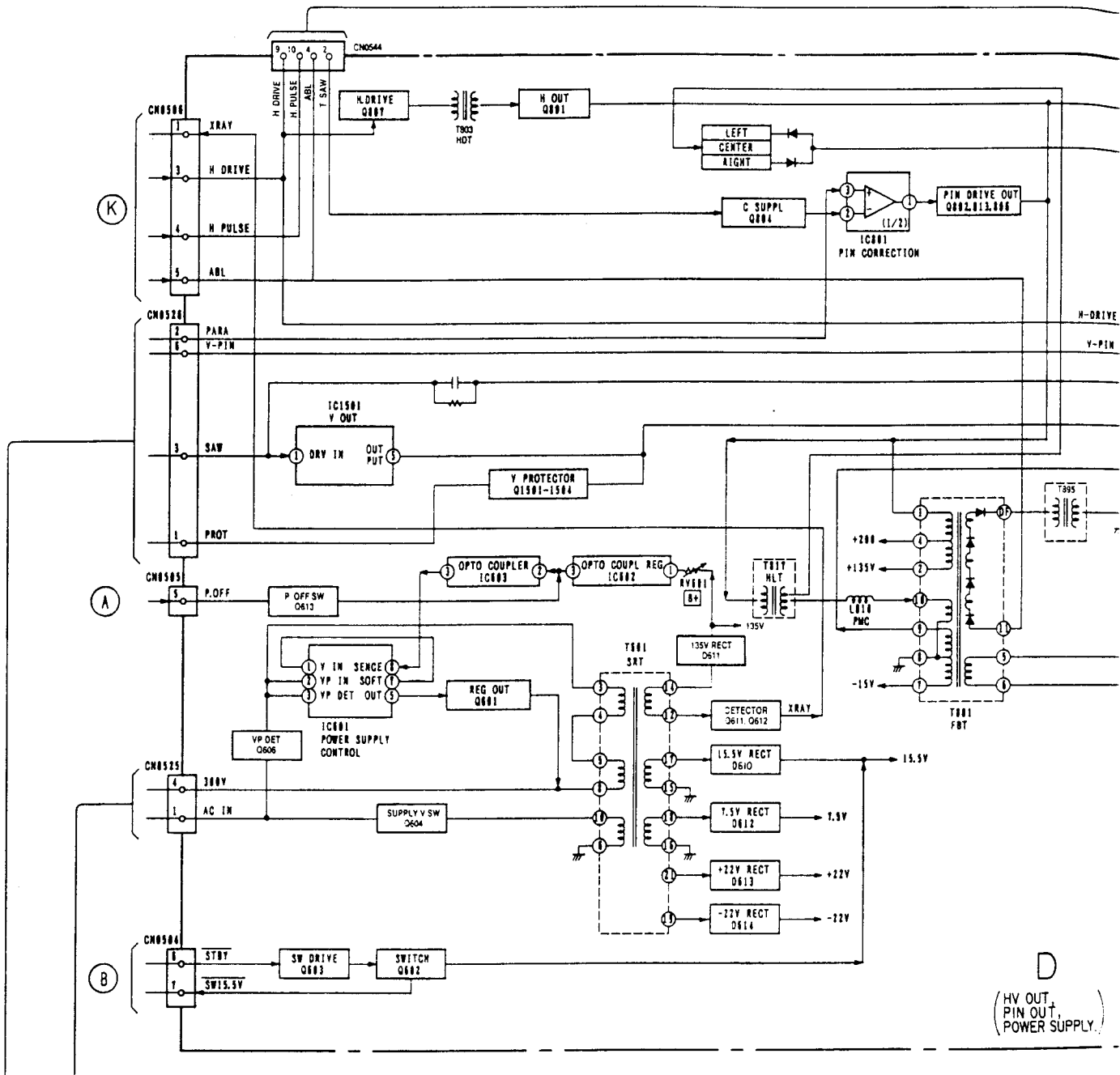
In the case of no acknowledge bit, LED A and LED B start blinking as shown.



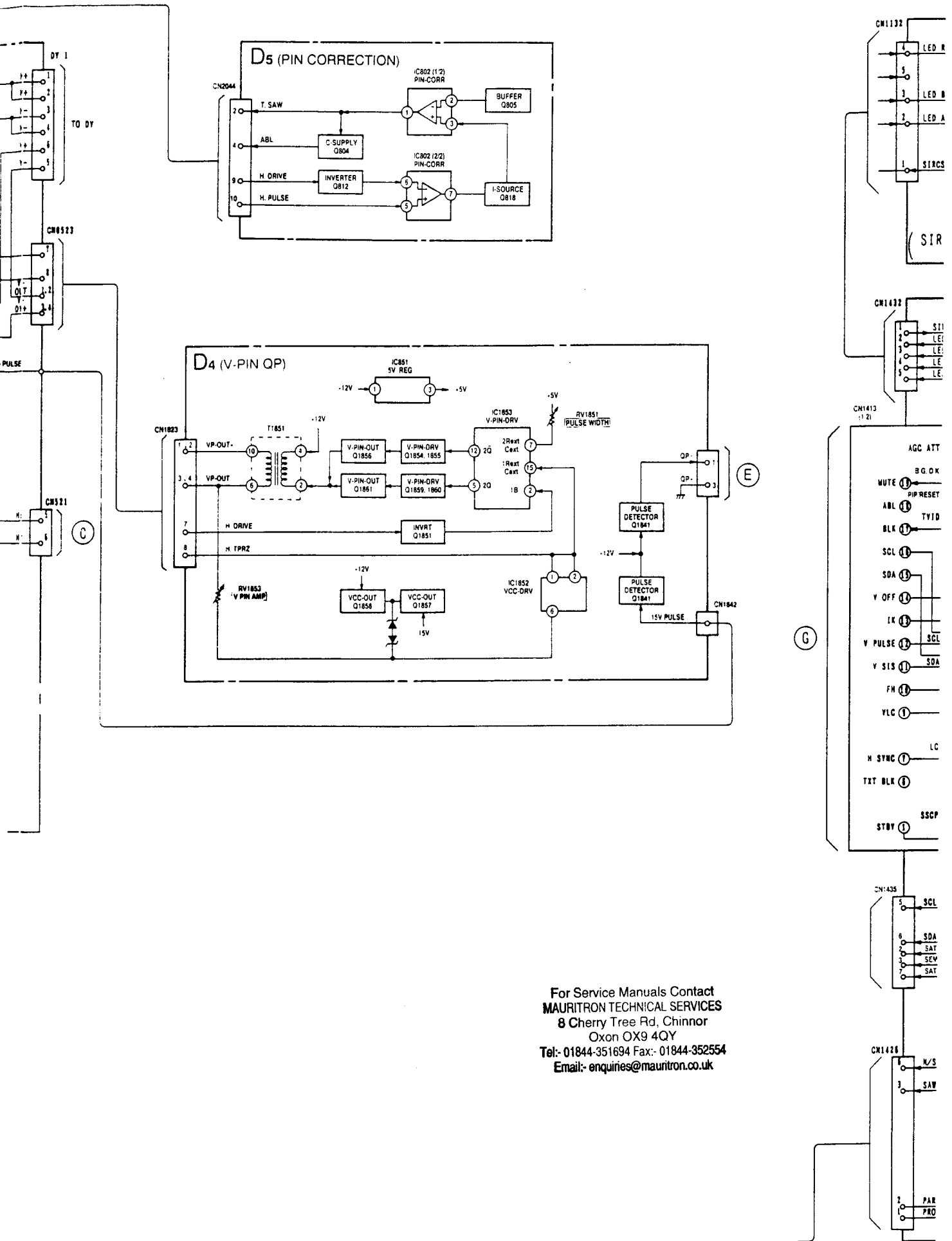
SECTION 5 DIAGRAMS

KV-X297

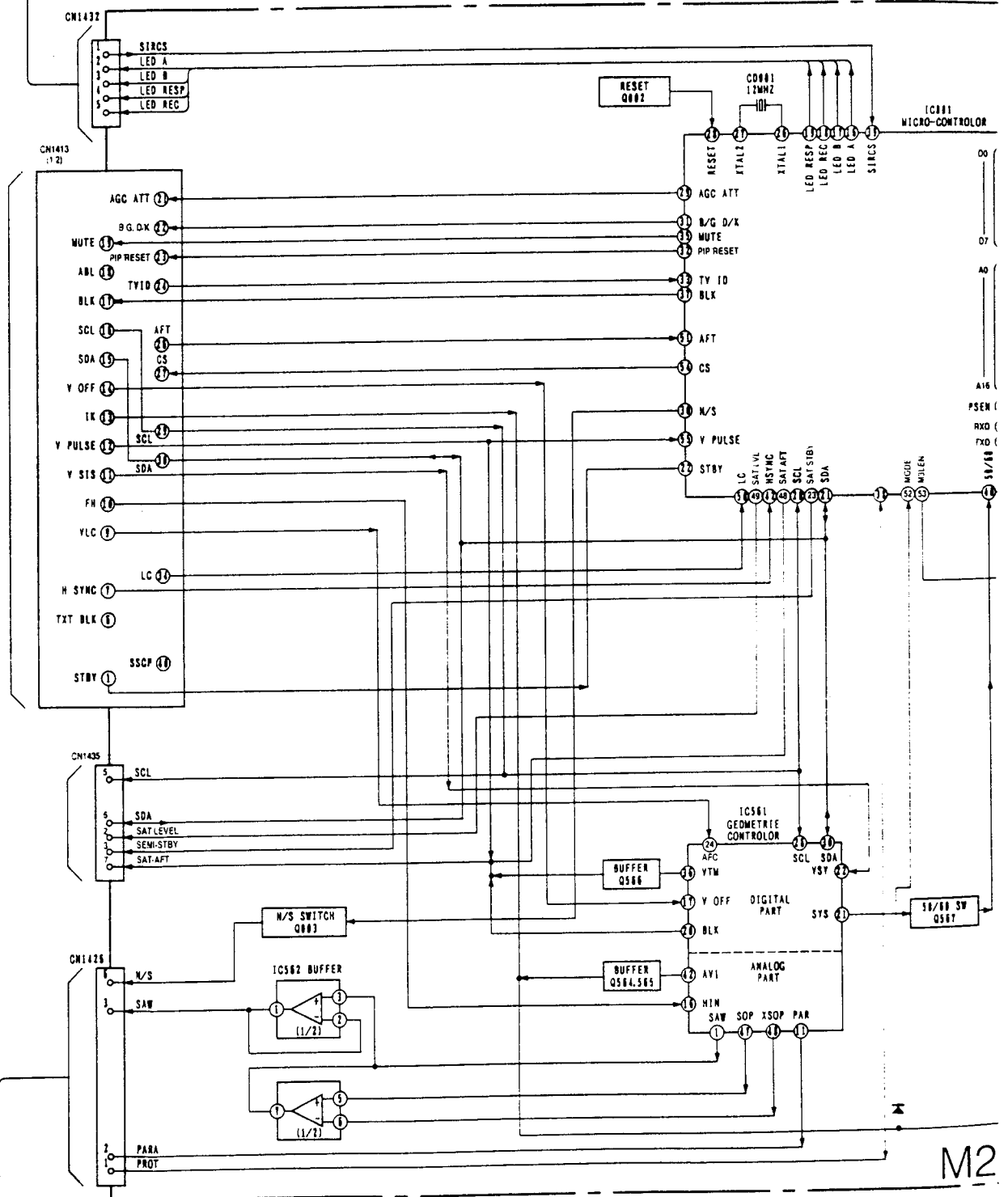
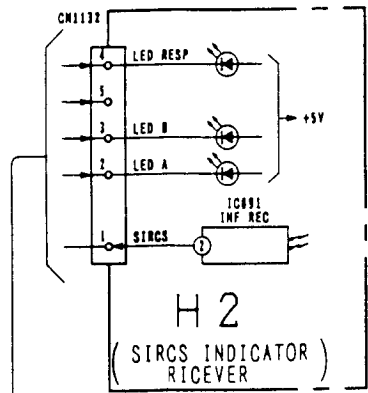
5-1. BLOCK DIAGRAM (1)

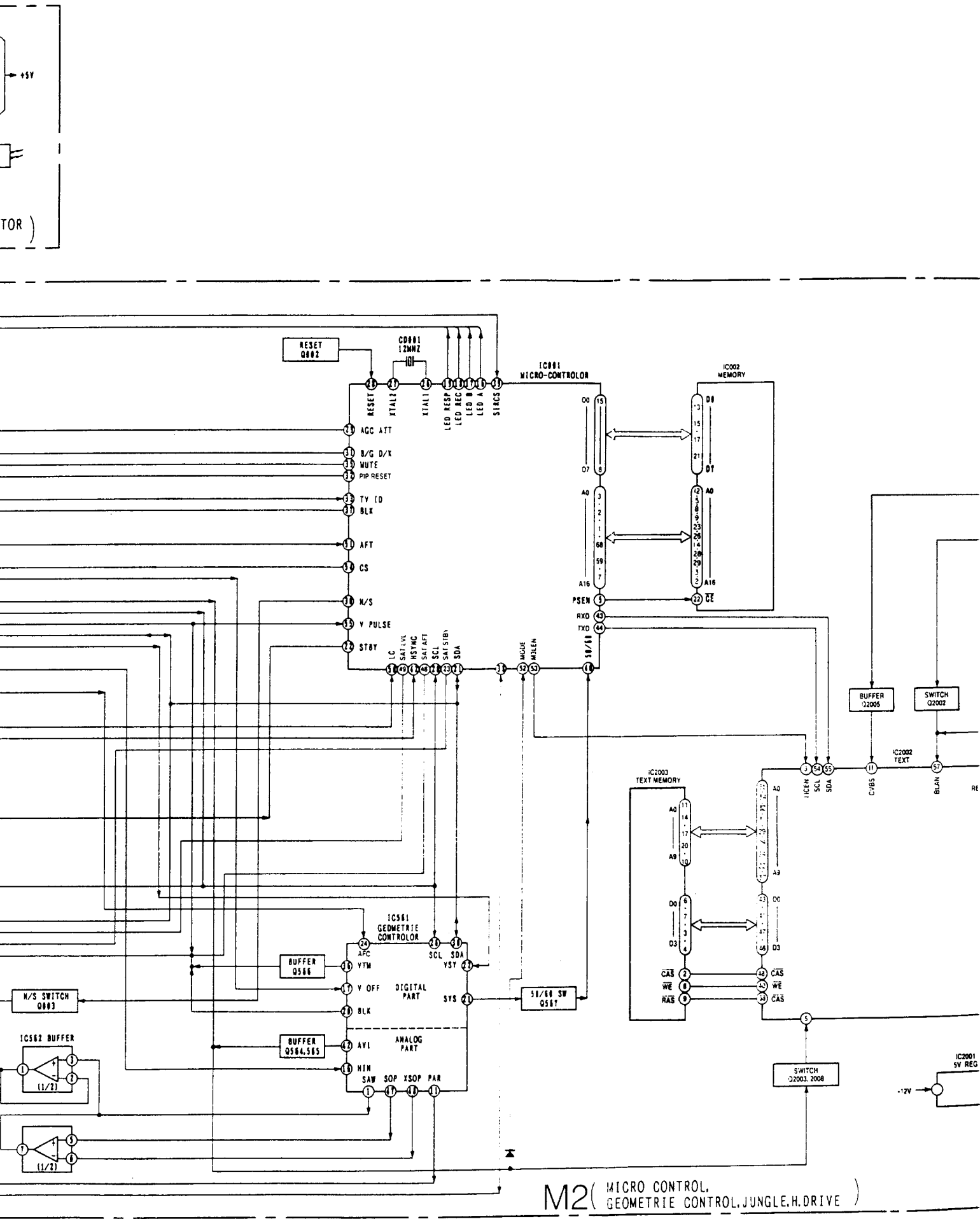


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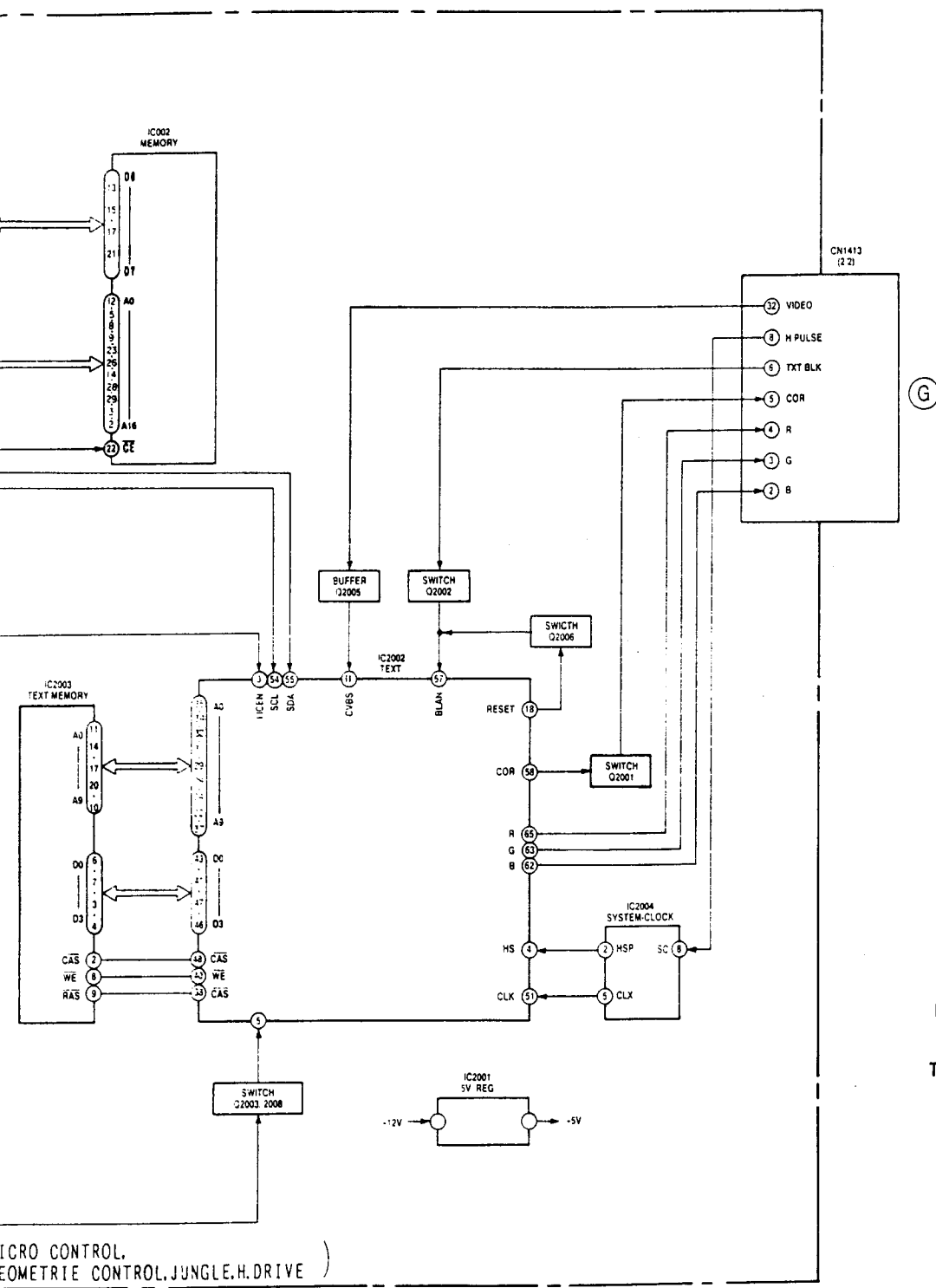


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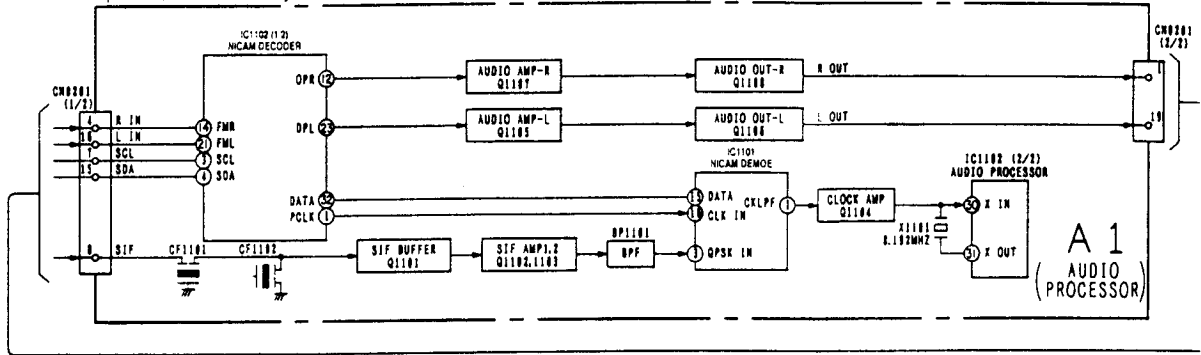
M2 (MICRO CONTROL, GEOMETRIE CONTROL, JUNGLE.H.DRIVE)



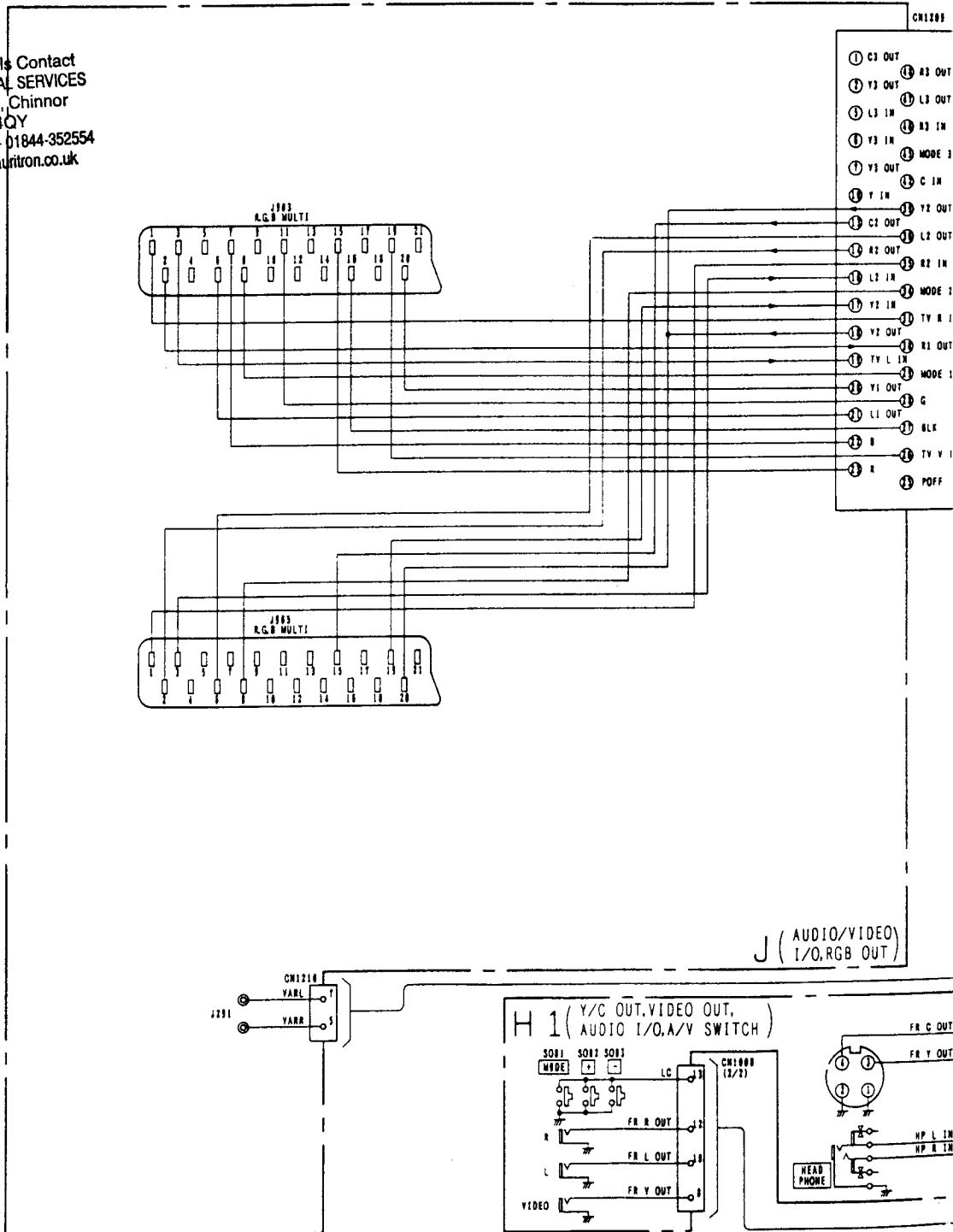
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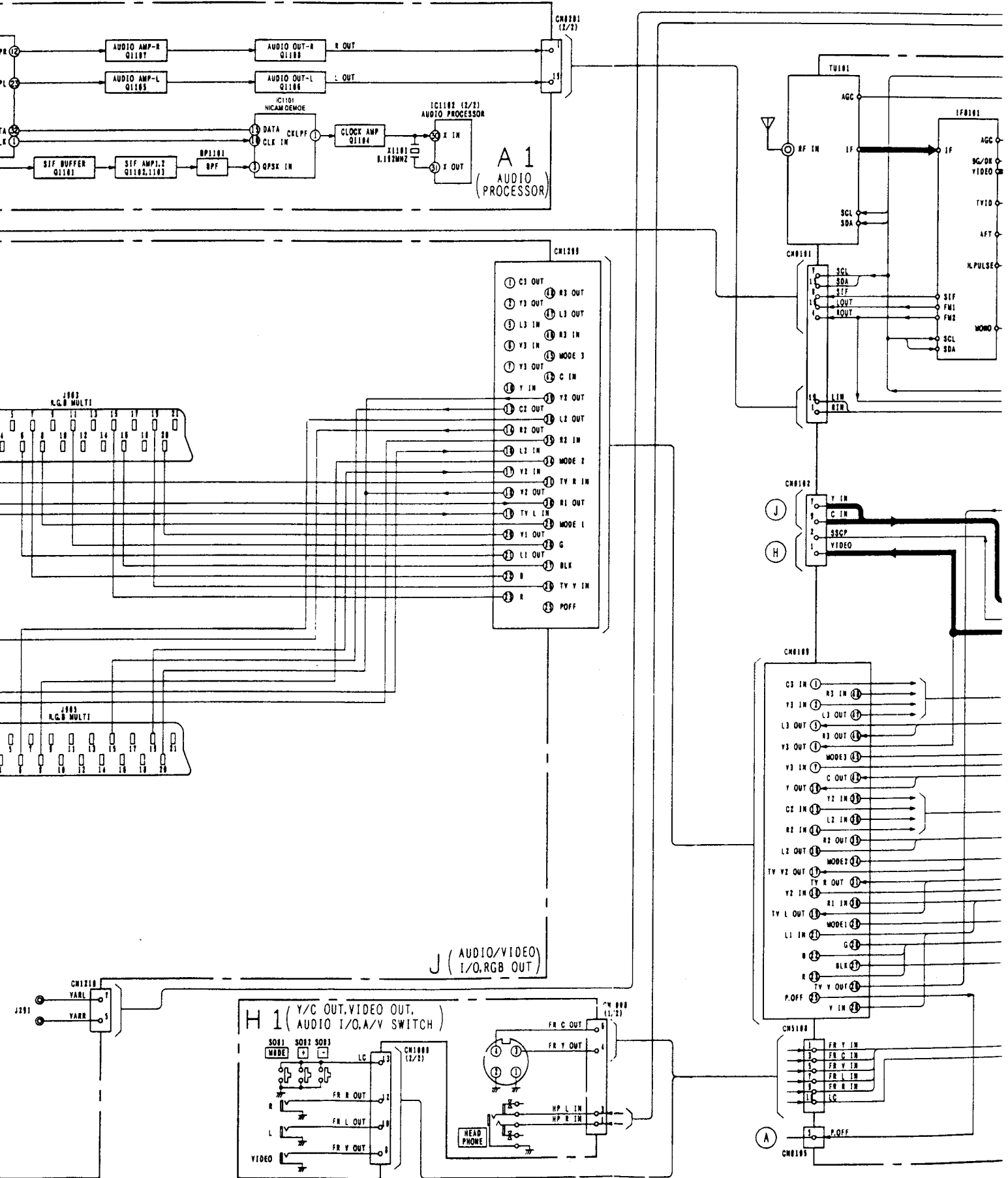
BLOCK DIAGRAM (2)

Spanish, UK model only



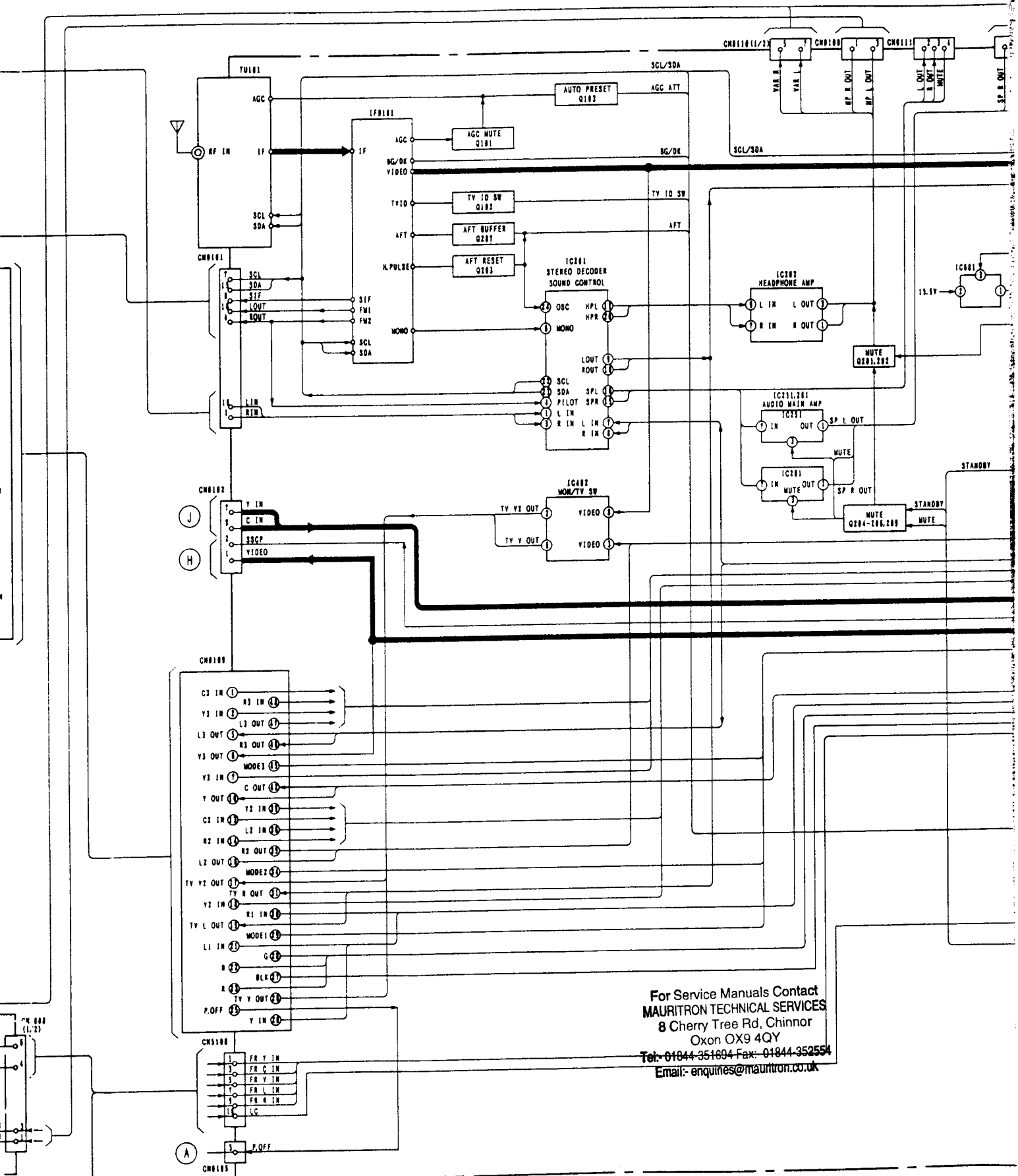
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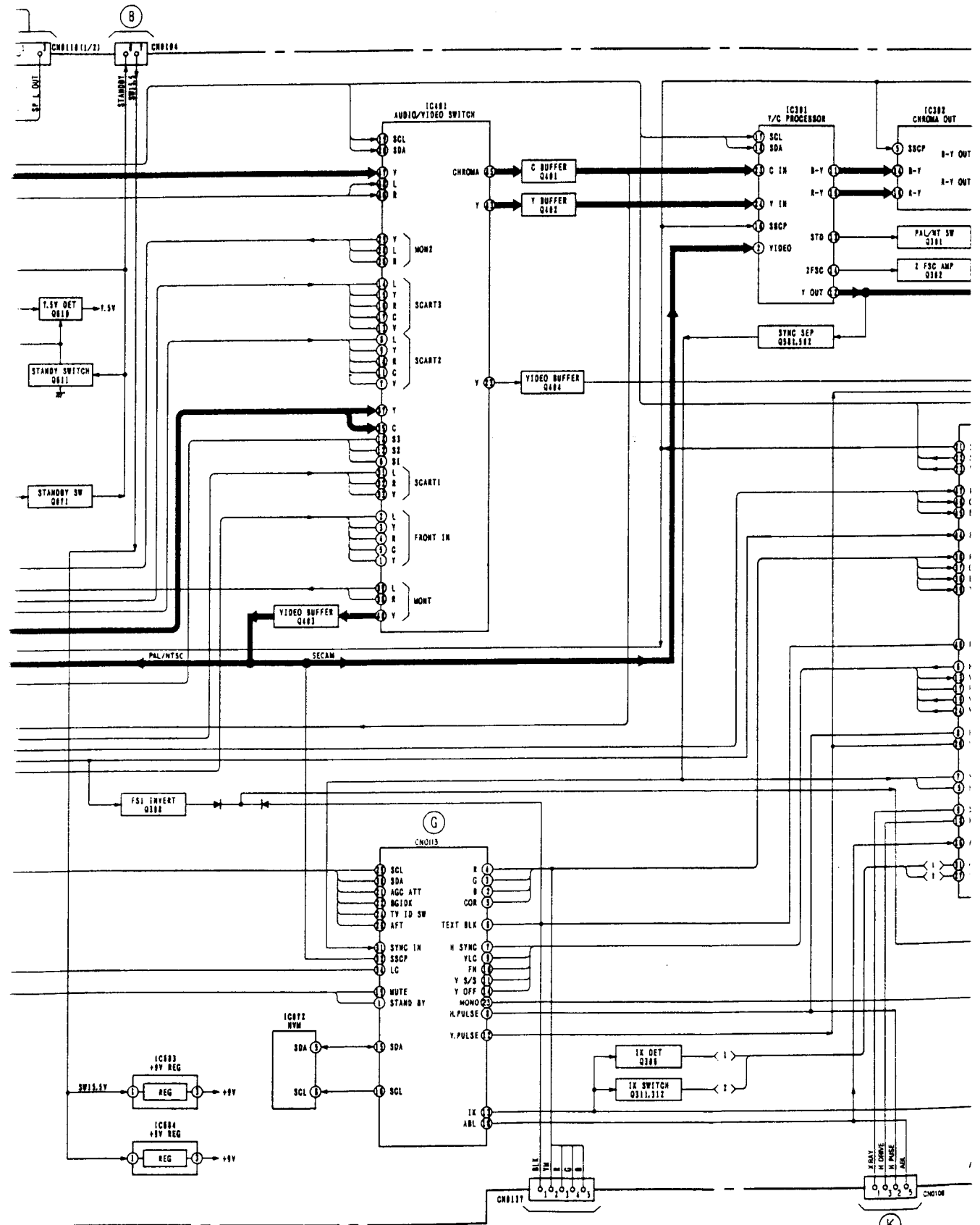


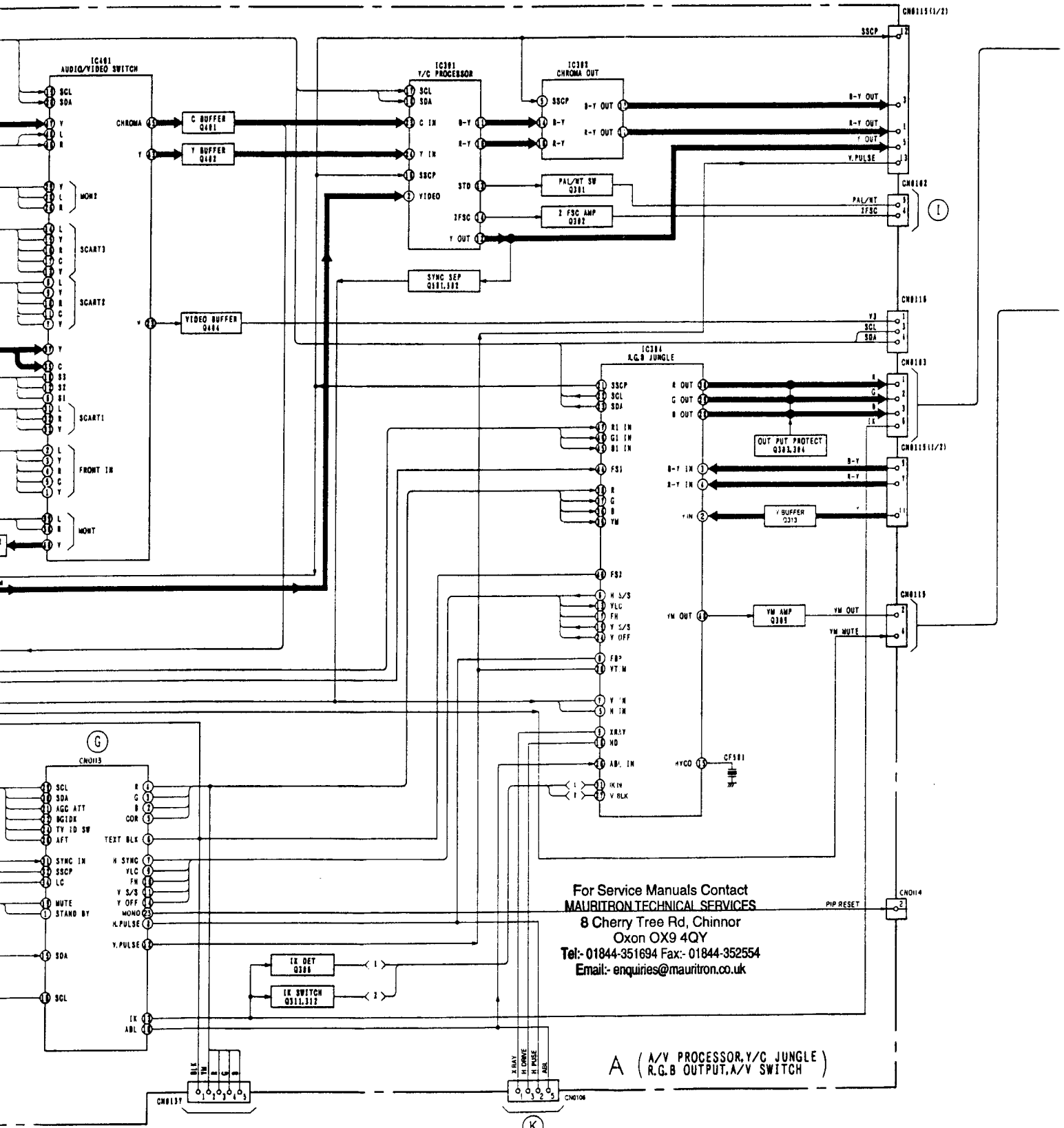
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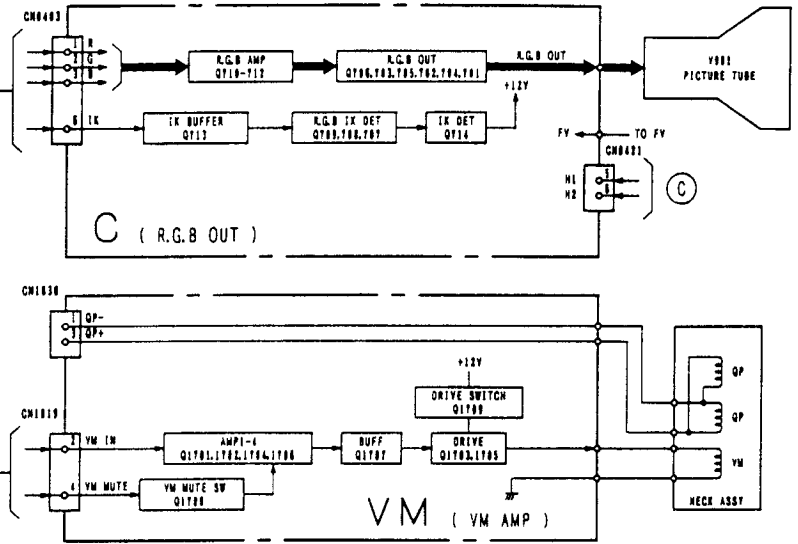
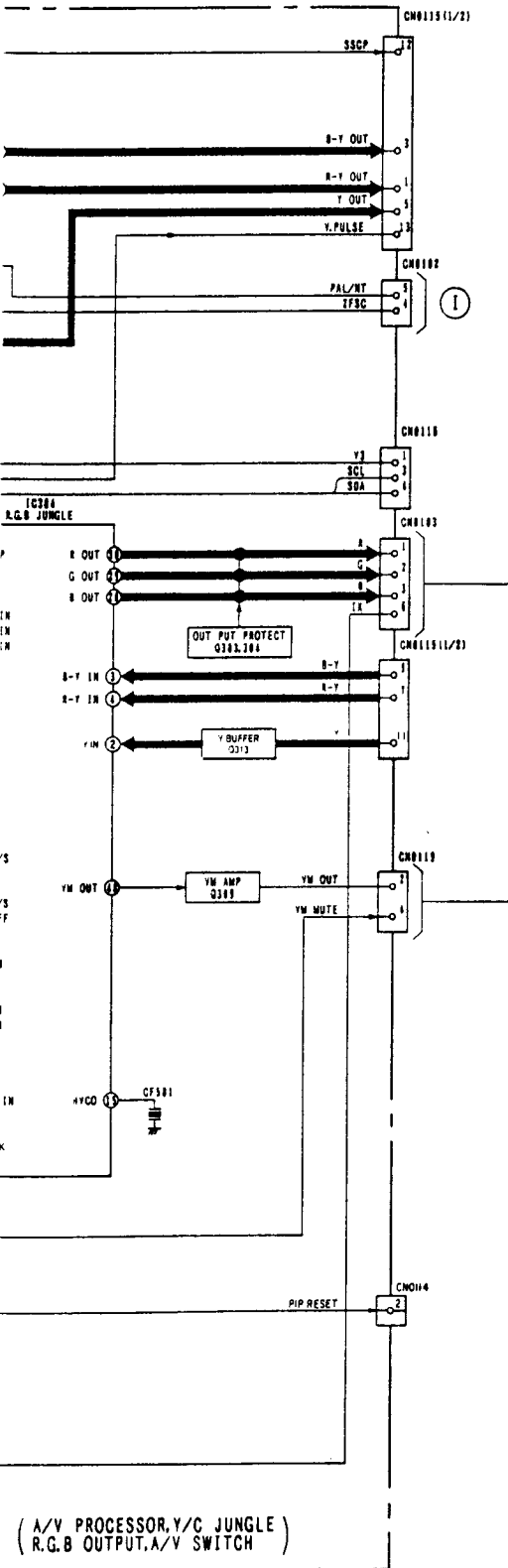


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A (A/V PROCESSOR, Y/C JUNGLE)
 R.G.B OUTPUT, A/V SWITCH

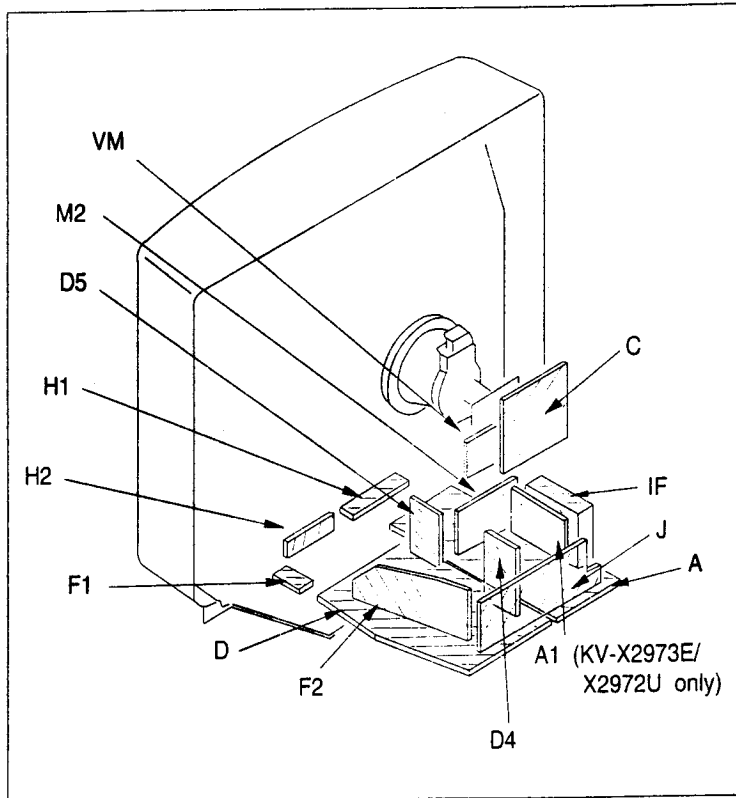
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5-2. CIRCUIT BOARDS LOCATION



Reference information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	*	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note: The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque \triangle sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted.
 μF : $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

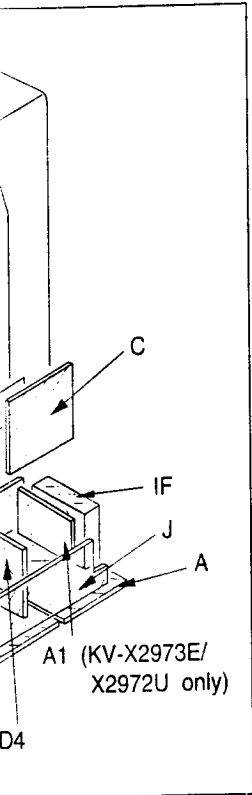
Pitch: 5mm
Rating electrical power: $\frac{1}{4}\text{W}$

- Chip resistor is in $1/10\text{W}$.
- All resistors are in ohms.
 $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{K}\Omega$
- : nonflammable resistor.
- : fusible resistor.
- \triangle : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a $10\text{M}\Omega$ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B+ bus.
- : B- bus.
- : signal path (RF)
- : earth-ground
- : earth-chassis

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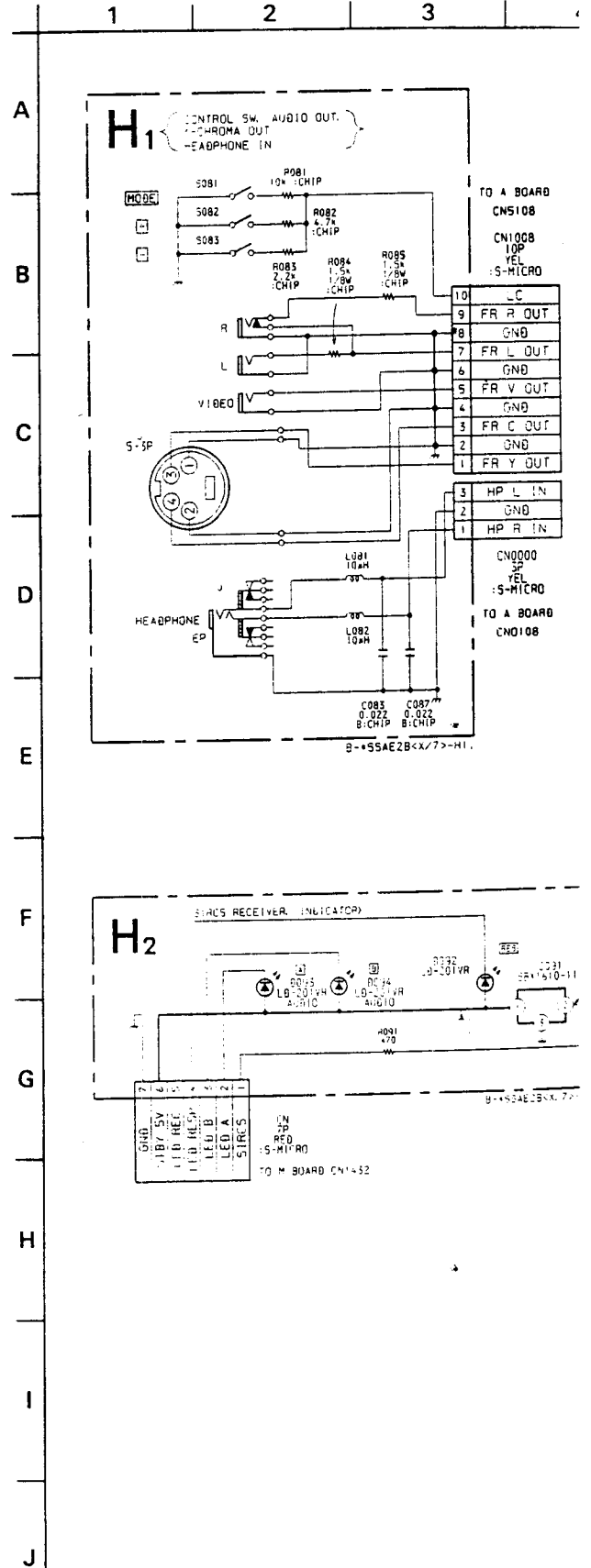
Reference information

- RESISTOR RN : METAL FILM
 RC : SOLID
 FPRD : NONFLAMMABLE CARBON
 FUSE : NONFLAMMABLE FUSIBLE
 RS : NONFLAMMABLE METAL OXIDE
 RB : NONFLAMMABLE CEMENT
 RW : NONFLAMMABLE WIREWOUND
 ※ : ADJUSTMENT RESISTOR
- COIL LF-8L : MICRO INDUCTOR
- CAPACITOR TA : TANTALUM
 PS : STYROL
 PP : POLYPROPYLENE
 PT : MYLAR
 MPS : METALIZED POLYESTER
 MPP : METALIZED POLYPROPYLENE
 ALB : BIPOLAR
 ALT : HIGH TEMPERATURE
 ALR : HIGH RIPPLE

Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

RED WIRING BOARDS



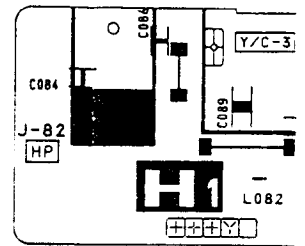
curve B.

LS-

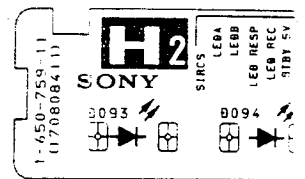
8 9 10 11 12 13

H1 [CONTROL SW, A
Y - CHROMA OL

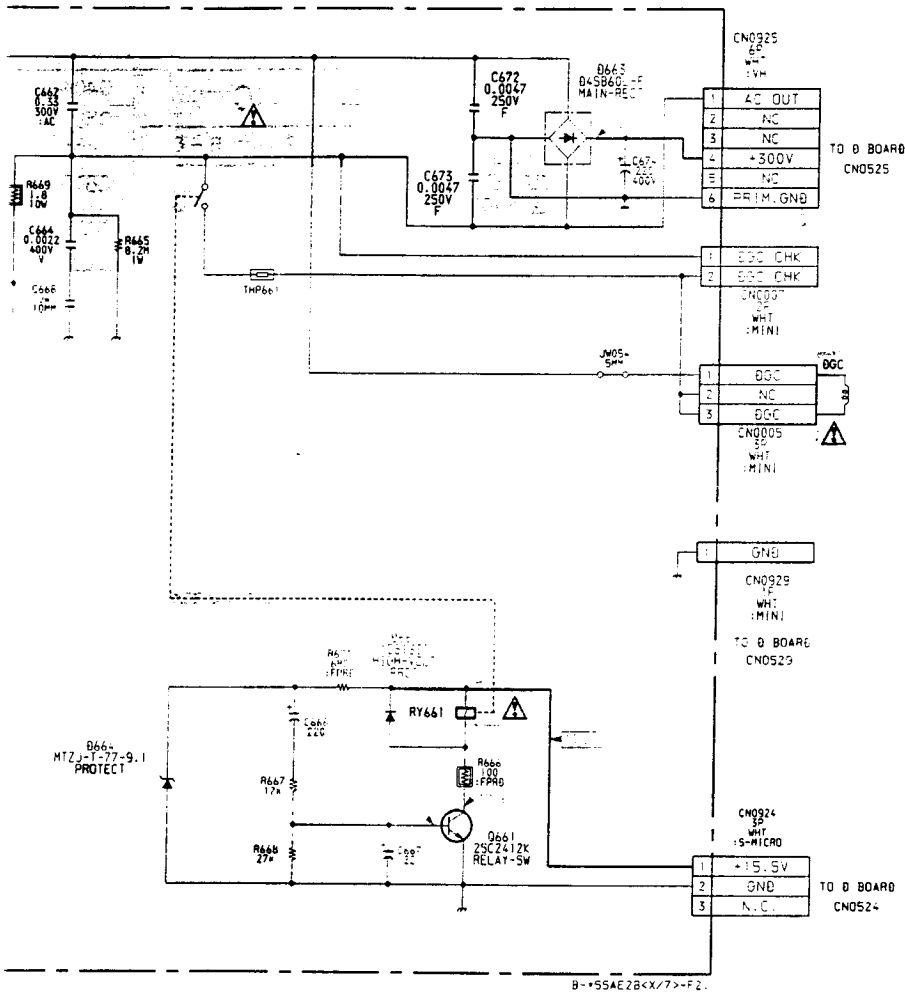
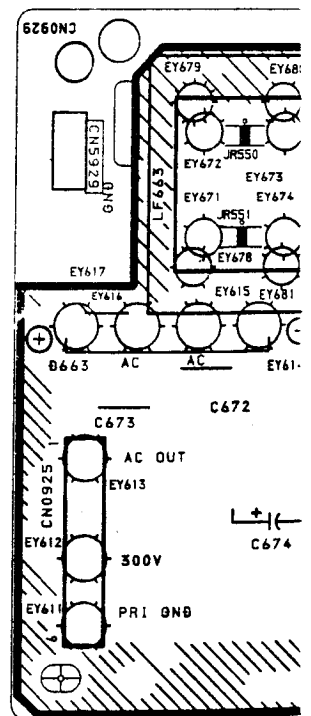
- H1 BOARD -



- H2 BOARD -



- F2 BOARD -

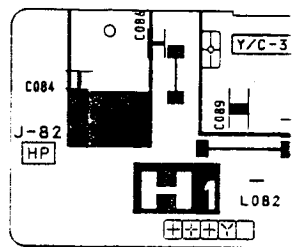


F2 BOARD * MARK

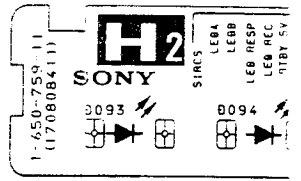
Model	KV-X2971A	KV-X2971B	KV-X2971D	KV-X2971K	KV-X2973E	KV-X2972U
R661	-	JW 10MM	-	-	JW 10MM	JW 10MM
R662	-	JW 10MM	-	-	JW 10MM	JW 10MM
LF662	LFT	-	LFT	LFT	-	-

H1 CONTROL SW, A
Y - CHROMA OL

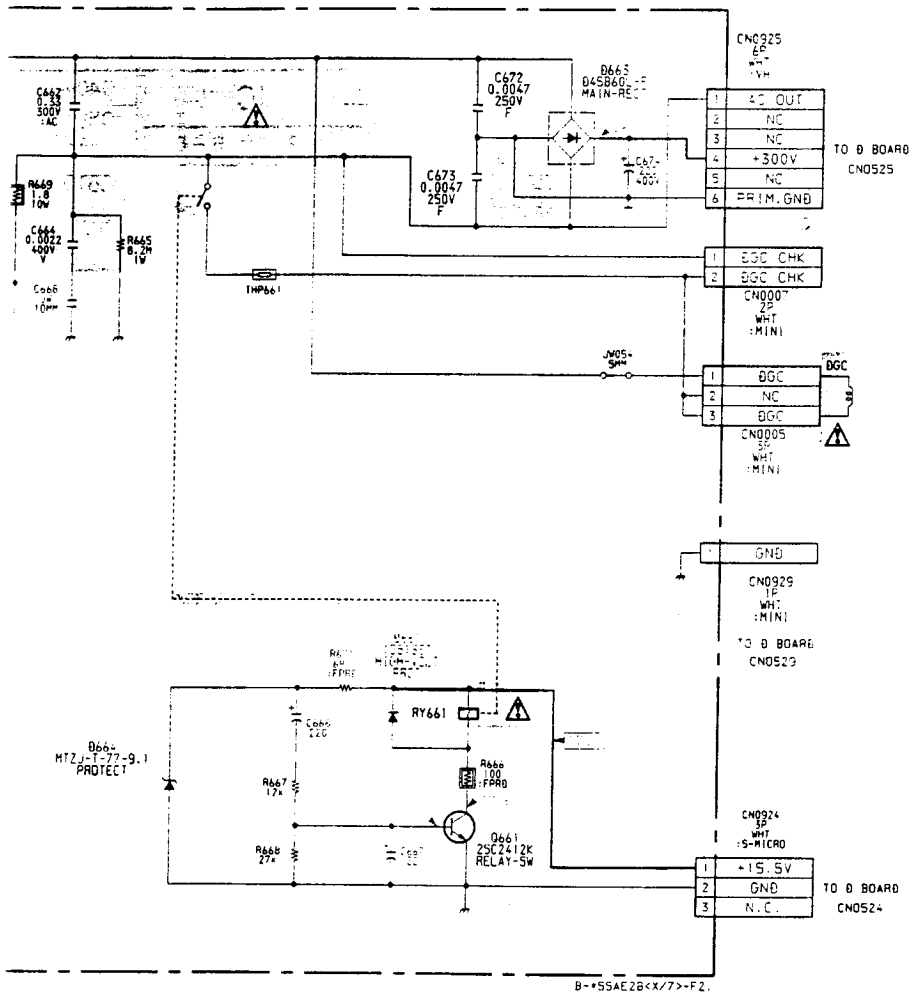
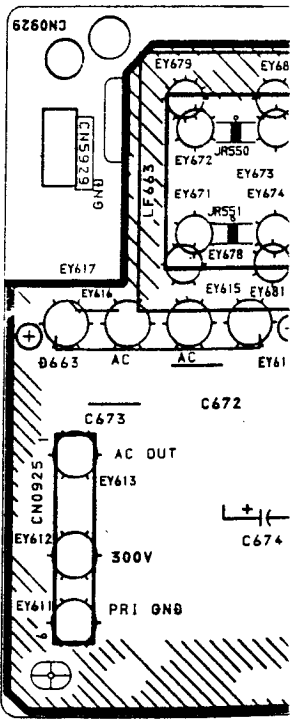
- H1 BOARD -



- H2 BOARD -



- F2 BOARD -



F2 BOARD * MARK

Model	KV-X2971A	KV-X2971B	KV-X2971D	KV-X2971K	KV-X2973E	KV-X2972U
R661	-	JW 10MM	-	-	JW 10MM	JW 10MM
R662	-	JW 10MM	-	-	JW 10MM	JW 10MM
LF662	LFT	-	LFT	LFT	-	-

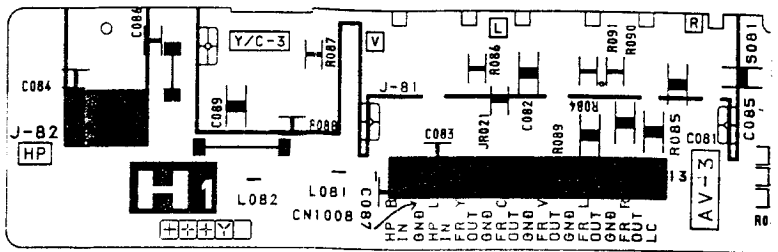
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11 12 13

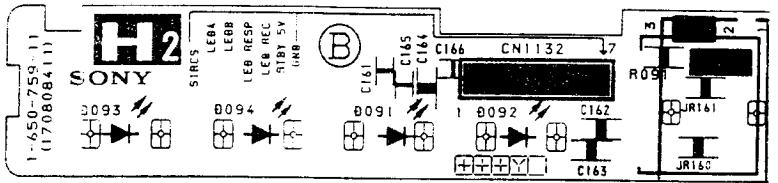
H1 [CONTROL SW, AUDIO OUT
Y - CHROMA OUT, HEADPHONE]

H2 [SIRCS RECEIVE
INDICATOR]

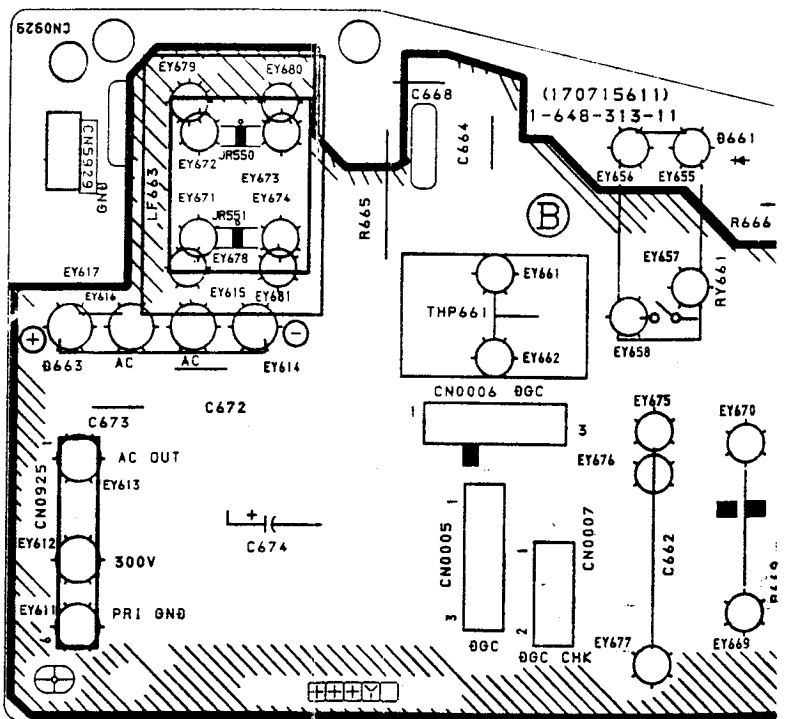
- H1 BOARD -



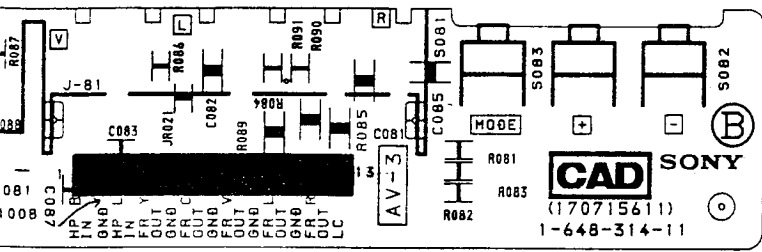
- H2 BOARD -



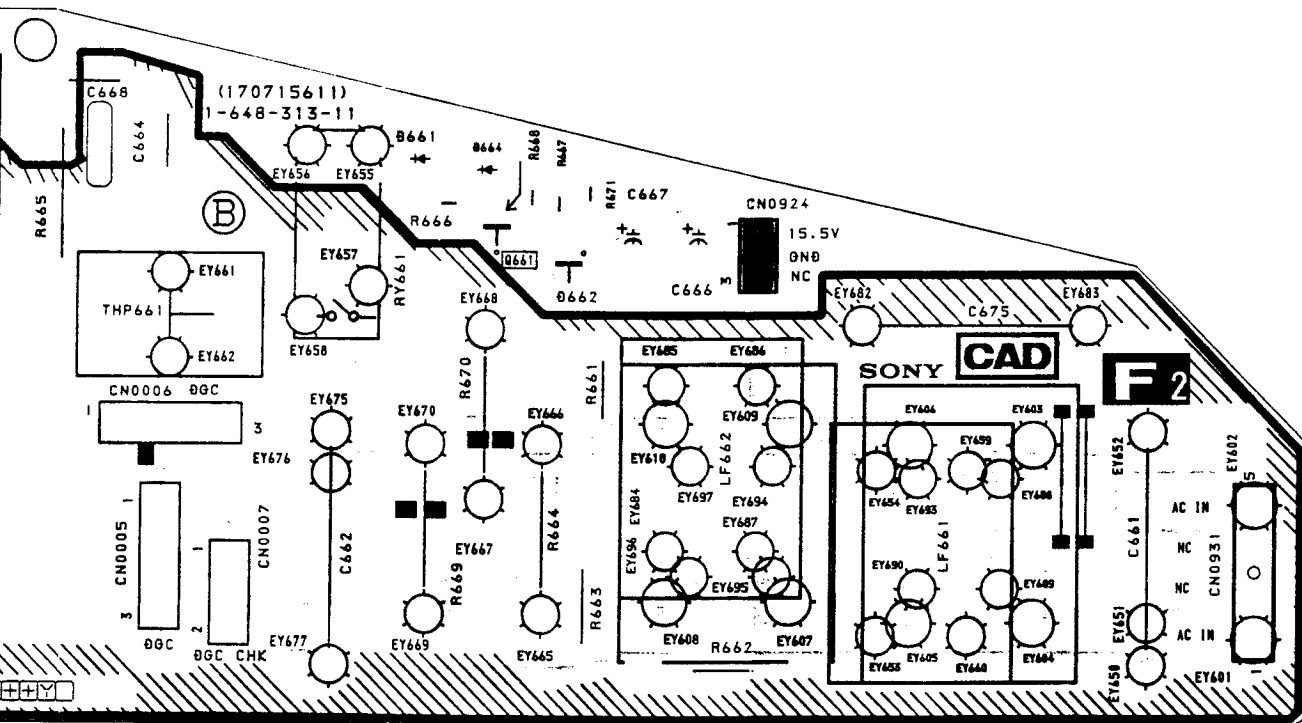
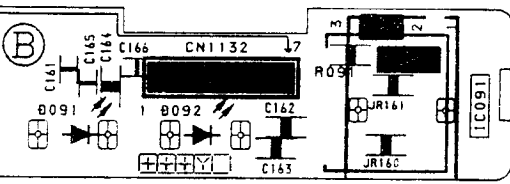
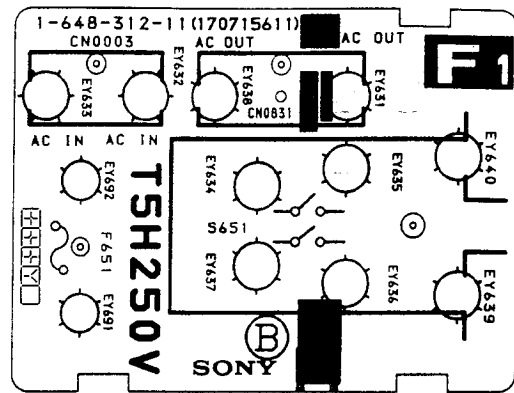
- F2 BOARD -



[AUDIO OUT HEADPHONE] **H2** [SIRCS RECEIVE INDICATOR] **F2** [LINE FILTER, RELAY SW] **F1** [AC IN POWER SW]



- F1 BOARD -



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2

3

4

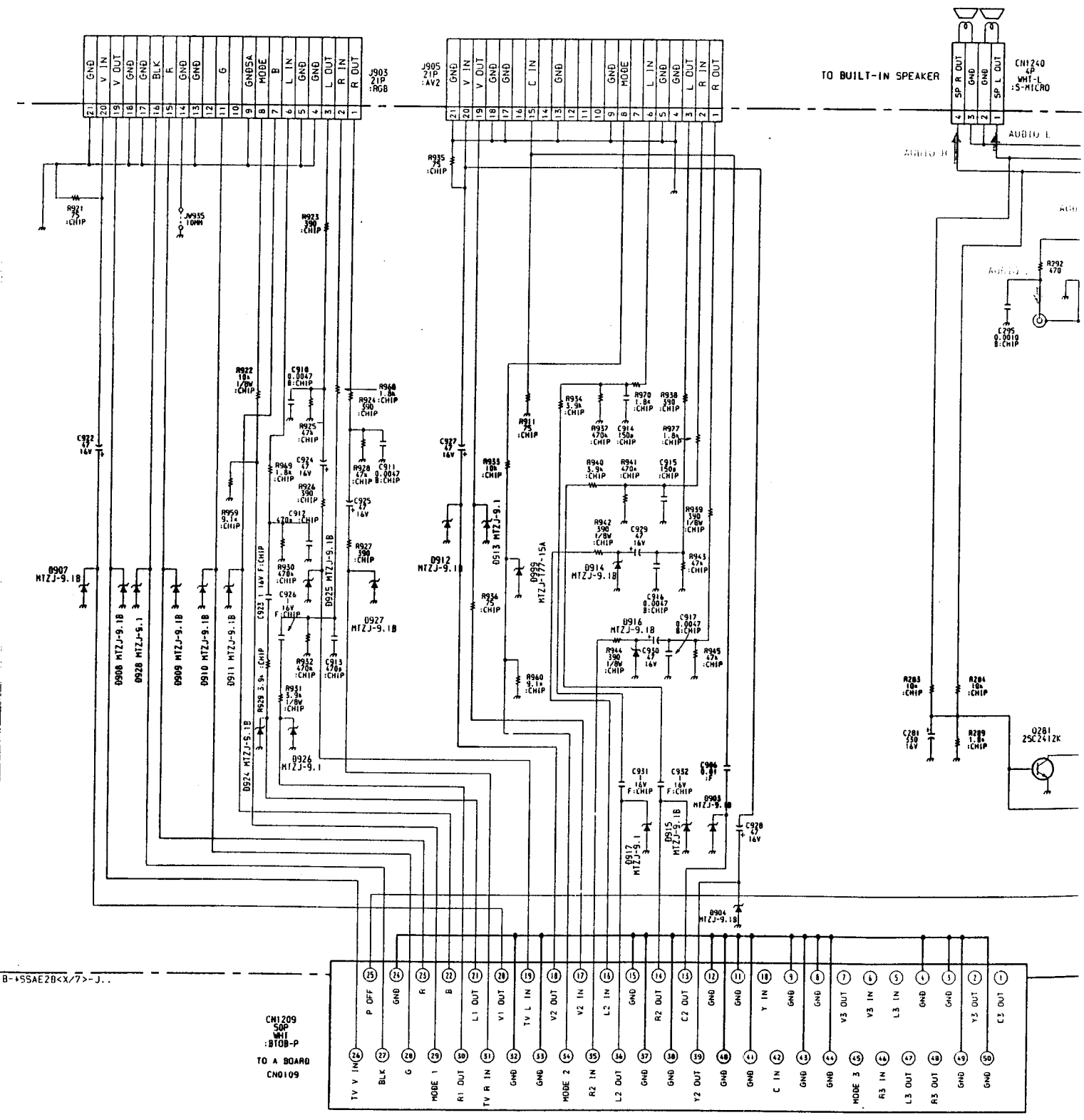
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6

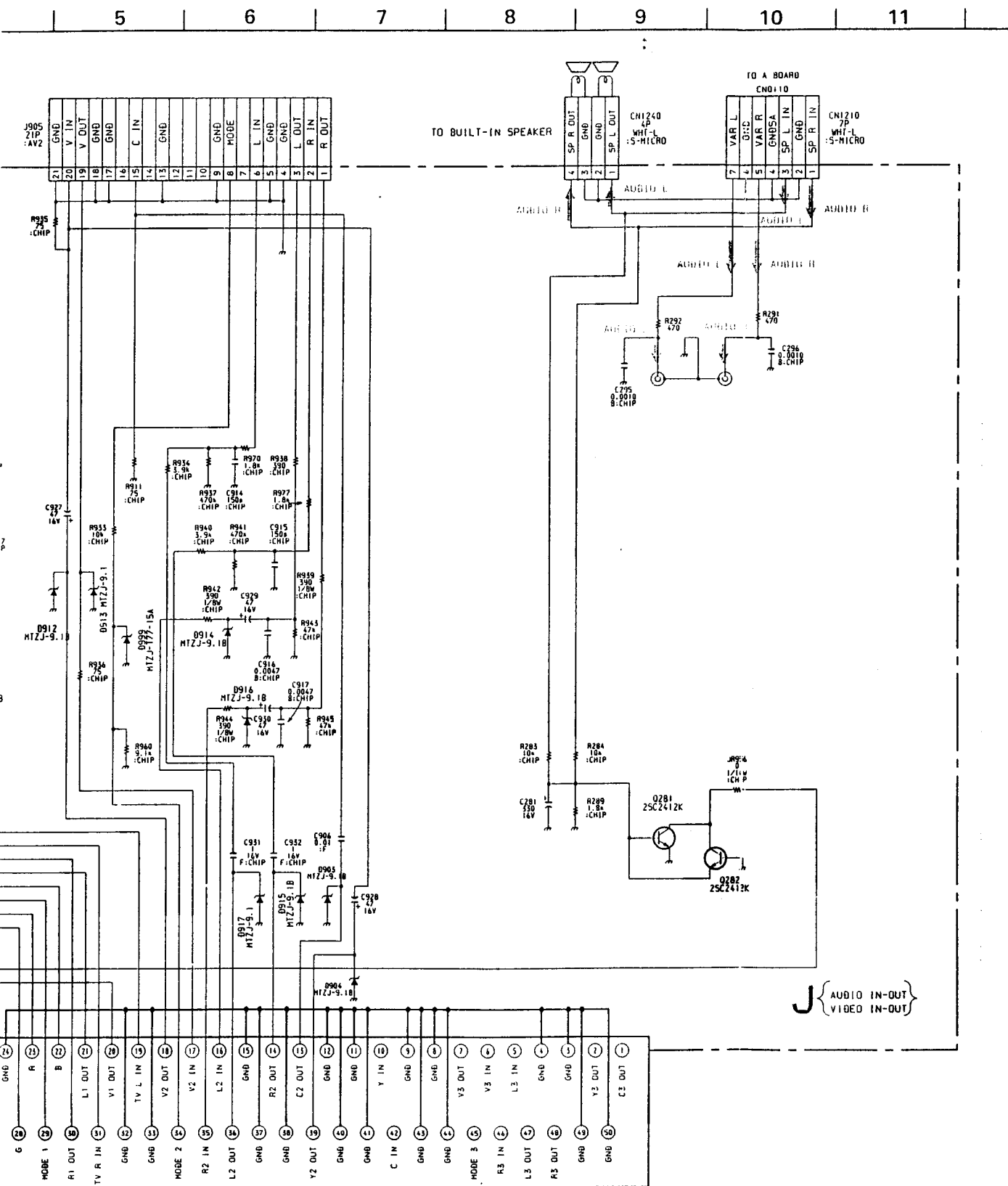
7

8

9



B-155AE20<X/7>-J..
 CN1209
 50P
 WHI
 :BITOB-P
 TO A BOARD
 CN0109



Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

KV-X297

KV-X297

J

[AUDIO IN/OUT
VIDEO IN/OUT]

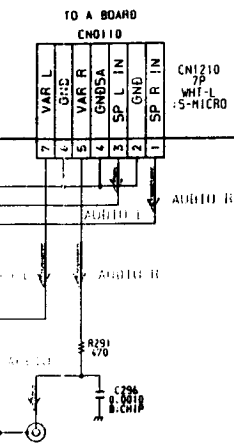
A

[TUNER, AUDIO, CONTROL, AUDIO AMP,
AV SW, R.G.B JUNGLE, Y/C PROCESSOR]

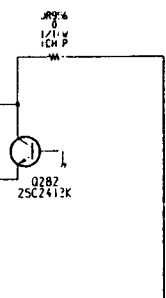
10

11

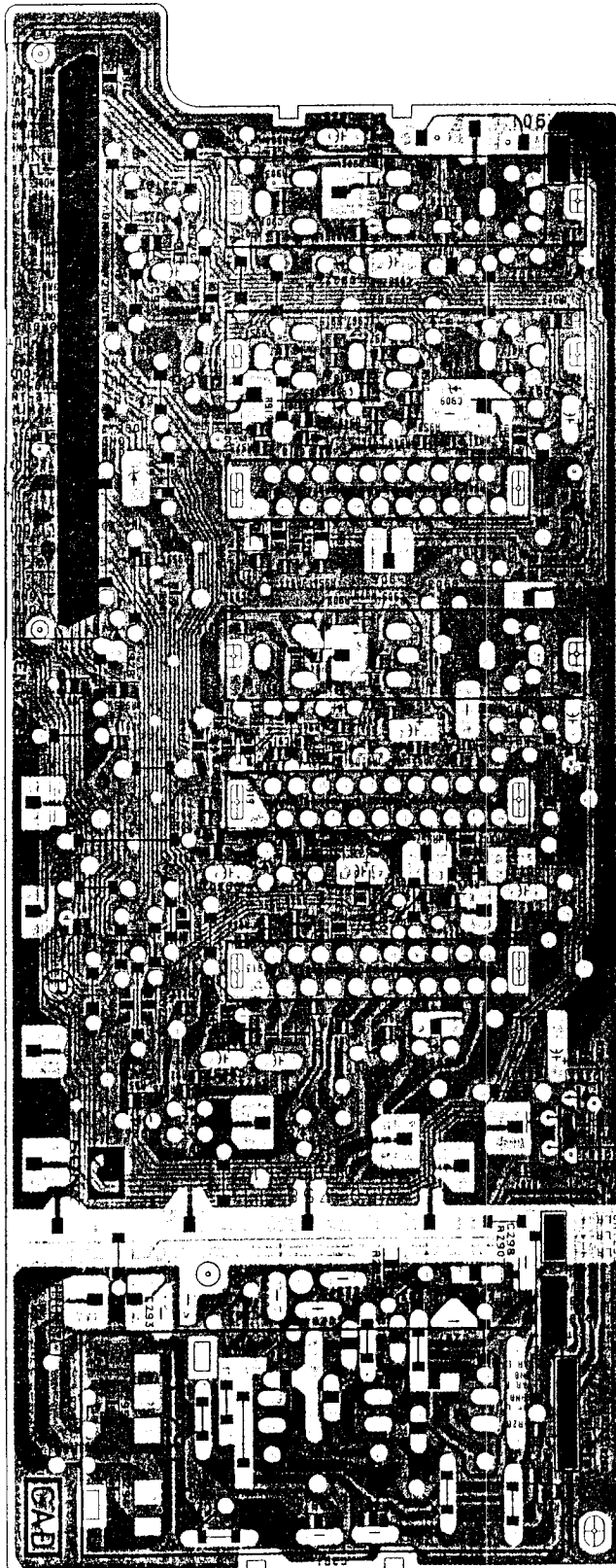
- J BOARD -



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J { AUDIO IN-OUT
VIDEO IN-OUT }



IC

IC072	B-6
IC201	C-6
IC202	C-4
IC251	D-4
IC261	D-2
IC301	A-8
IC302	A-10
IC304	C-10
IC401	C-2
IC402	D-2
IC681	D-9
IC684	C-4
IC685	E-8

TRANSISTOR

Q071	D-8
Q101	A-3
Q102	A-7
Q103	A-3
Q201	D-5
Q202	D-5
Q203	A-4
Q204	D-3
Q205	E-2
Q206	D-2
Q207	B-6
Q209	E-7
Q210	A-6
Q301	A-7
Q302	B-7
Q303	D-10
Q304	D-10
Q305	A-8
Q306	D-10
Q308	C-9
Q309	C-9
Q311	C-8
Q312	C-8
Q313	B-8
Q314	C-7
Q315	D-7
Q401	C-2
Q402	C-2
Q403	C-2

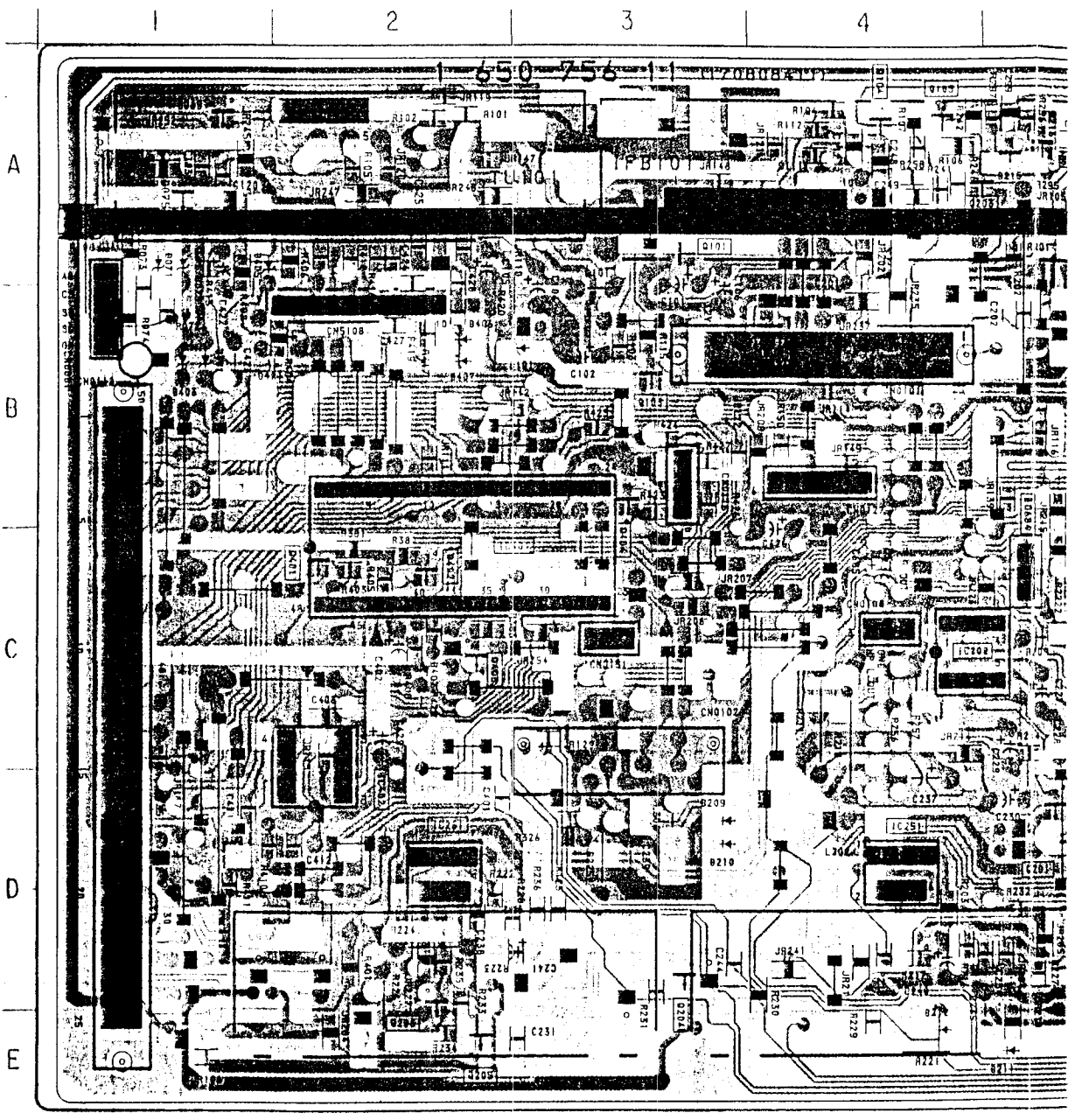
Note:

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

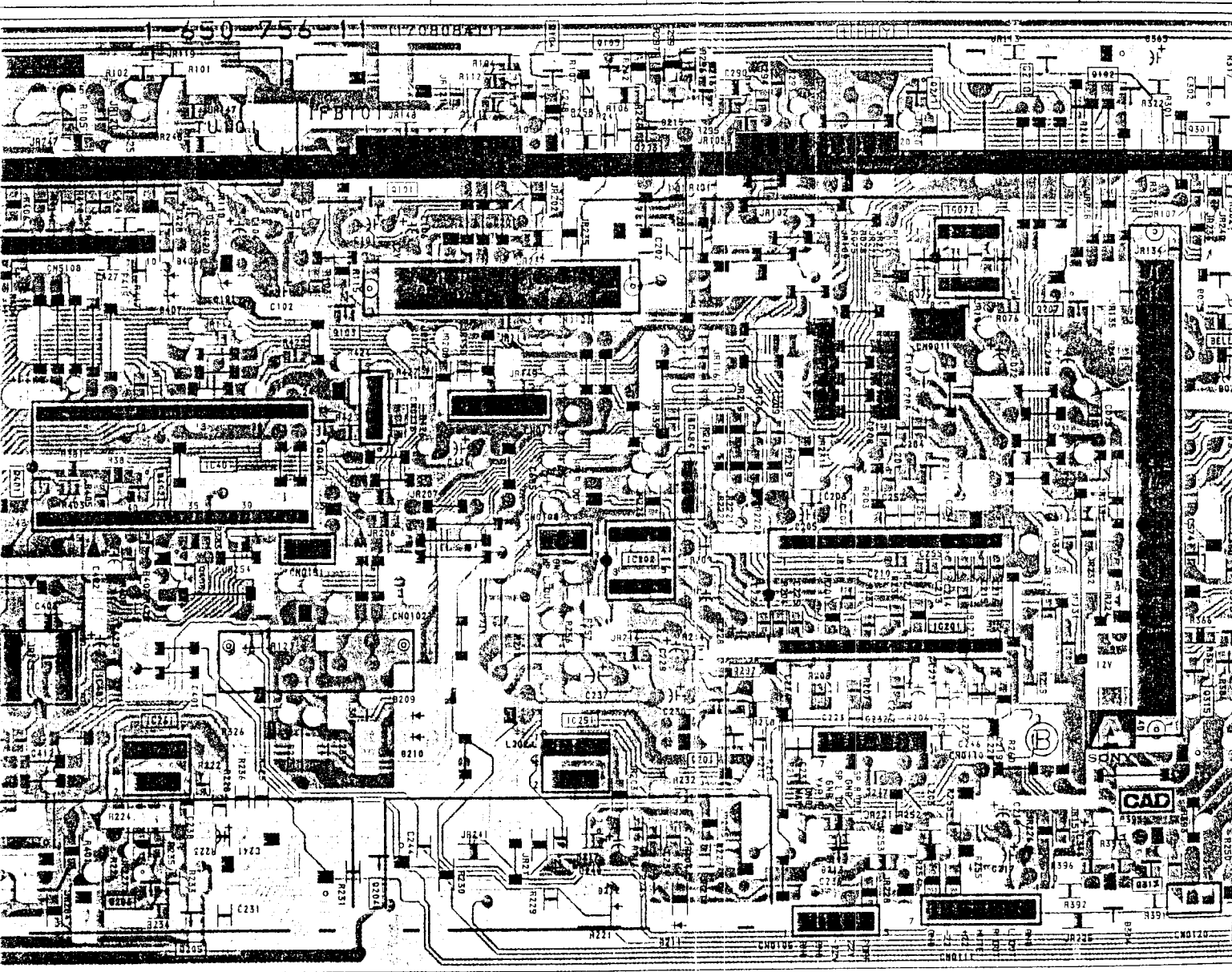
- A BOARD -

Q404	B-3
Q581	B-9
Q582	B-9
Q610	E-9
Q681	E-7
Q682	D-9

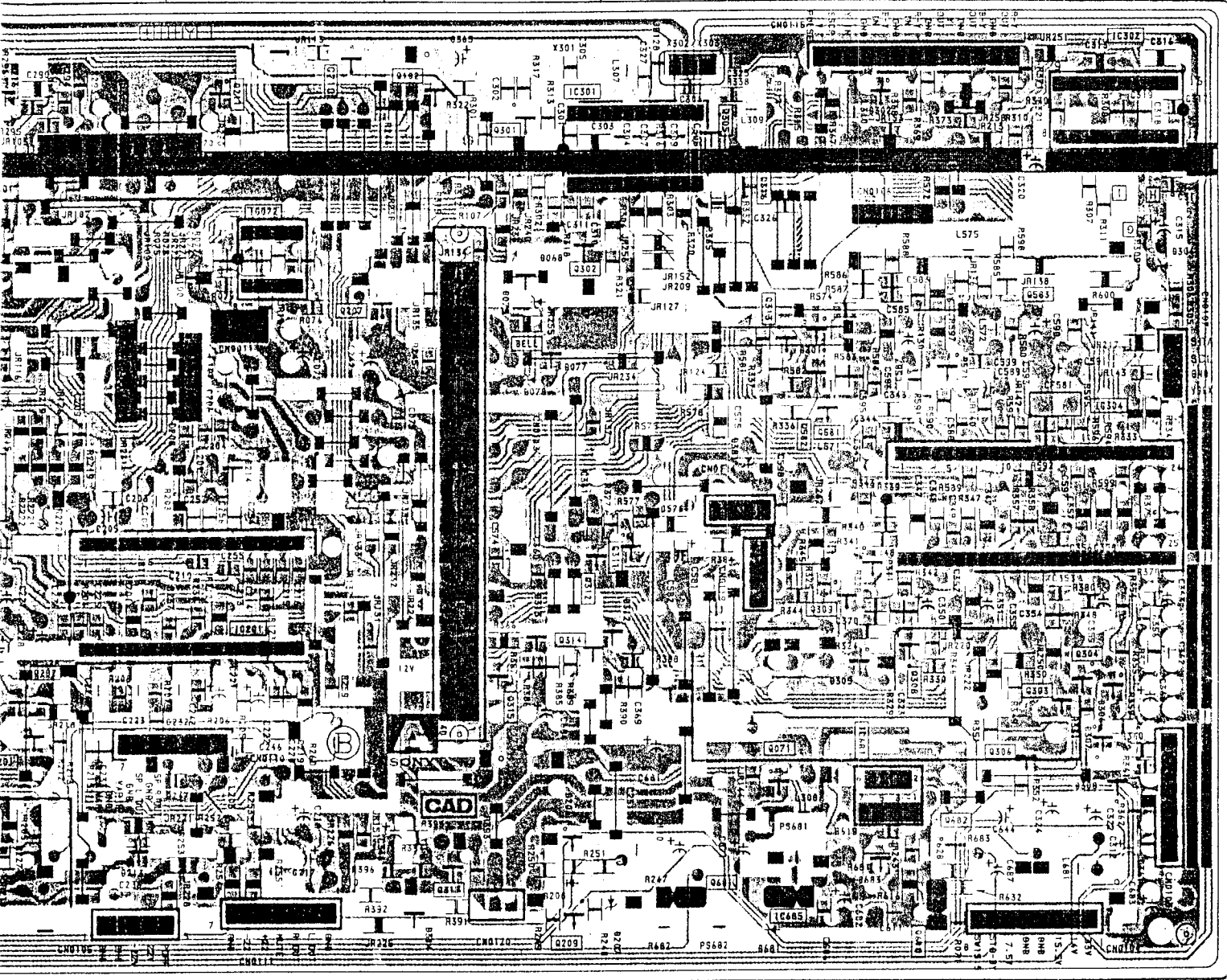
DIODE	
D068	B-7
D069	A-1
D071	A-1
D073	A-1
D075	A-1
D077	B-7
D078	B-7
D079	B-7
D101	B-2
D206	D-7
D207	E-7
D208	D-7
D209	D-3
D210	D-3
D211	E-5
D212	E-4
D213	D-5
D214	C-6
D301	B-9
D302	A-9
D304	B-10
D305	C-9
D306	D-10
D307	D-10
D308	D-10
D311	C-9
D312	C-8
D313	C-7
D381	C-8
D401	B-1
D403	B-1
D405	A-1
D406	B-2
D407	B-2
D571	B-9
D681	E-8
D683	D-9



2 3 4 5 6 7



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Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

A

B

C

D

E

F

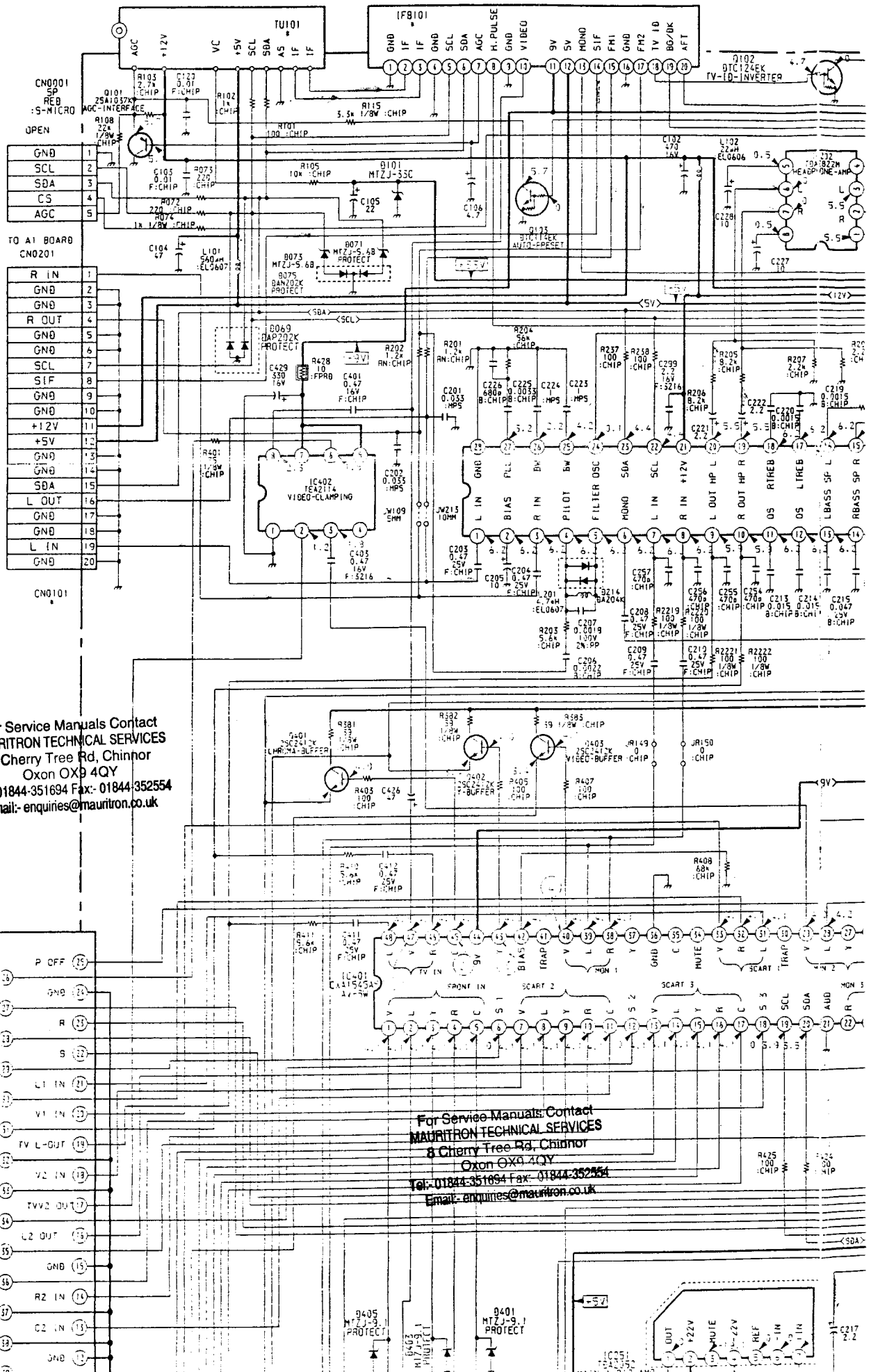
G

H

I

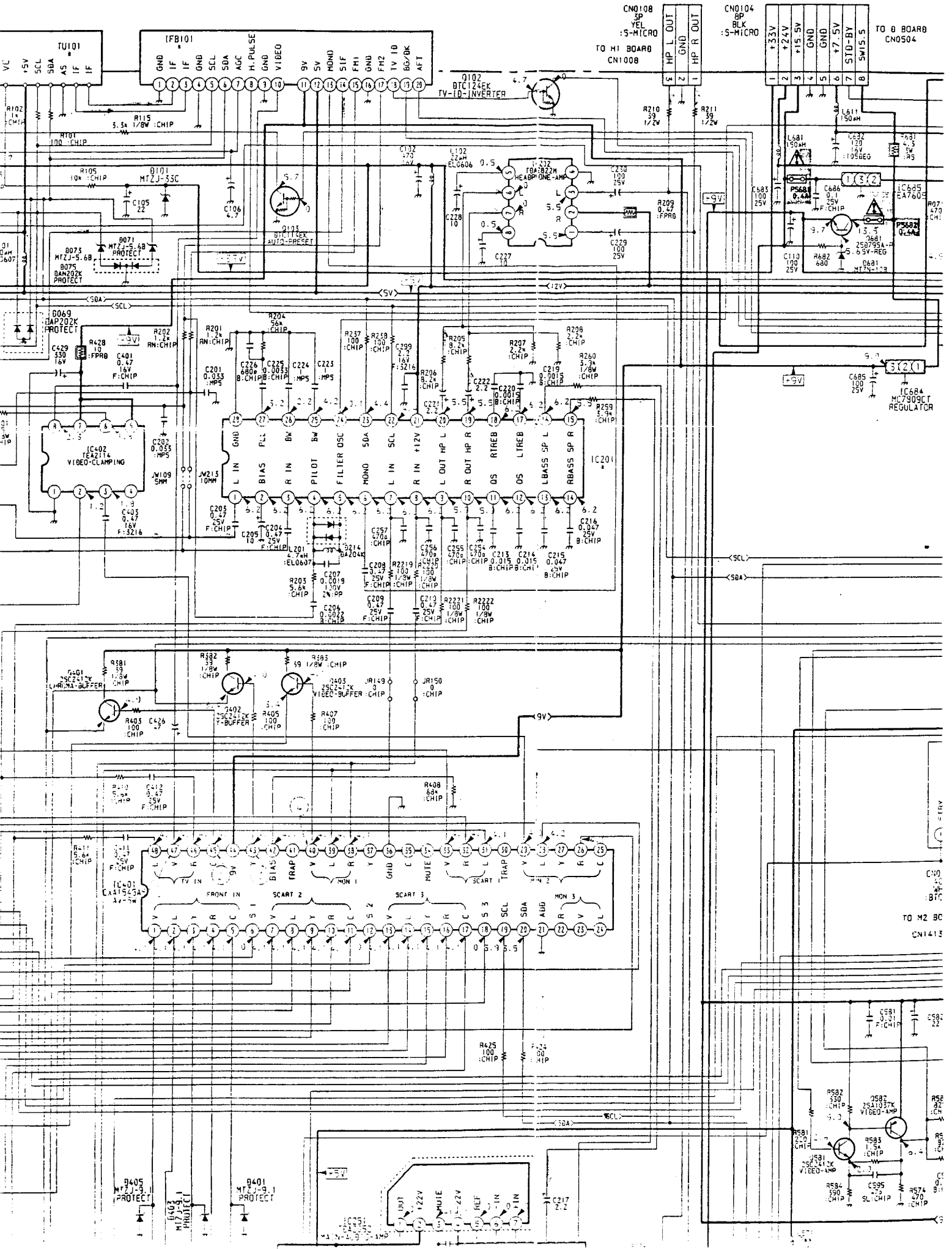
J

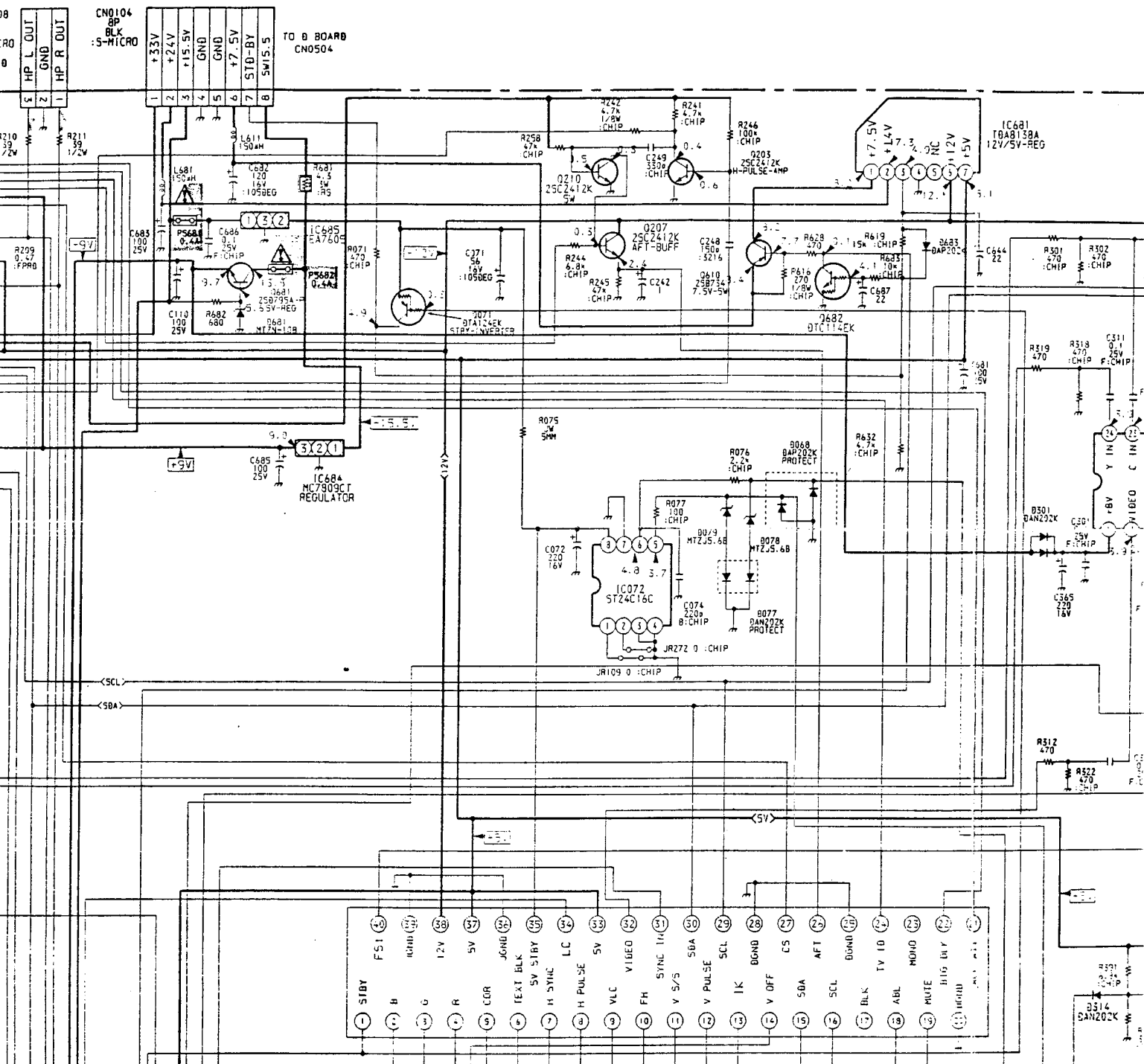
K



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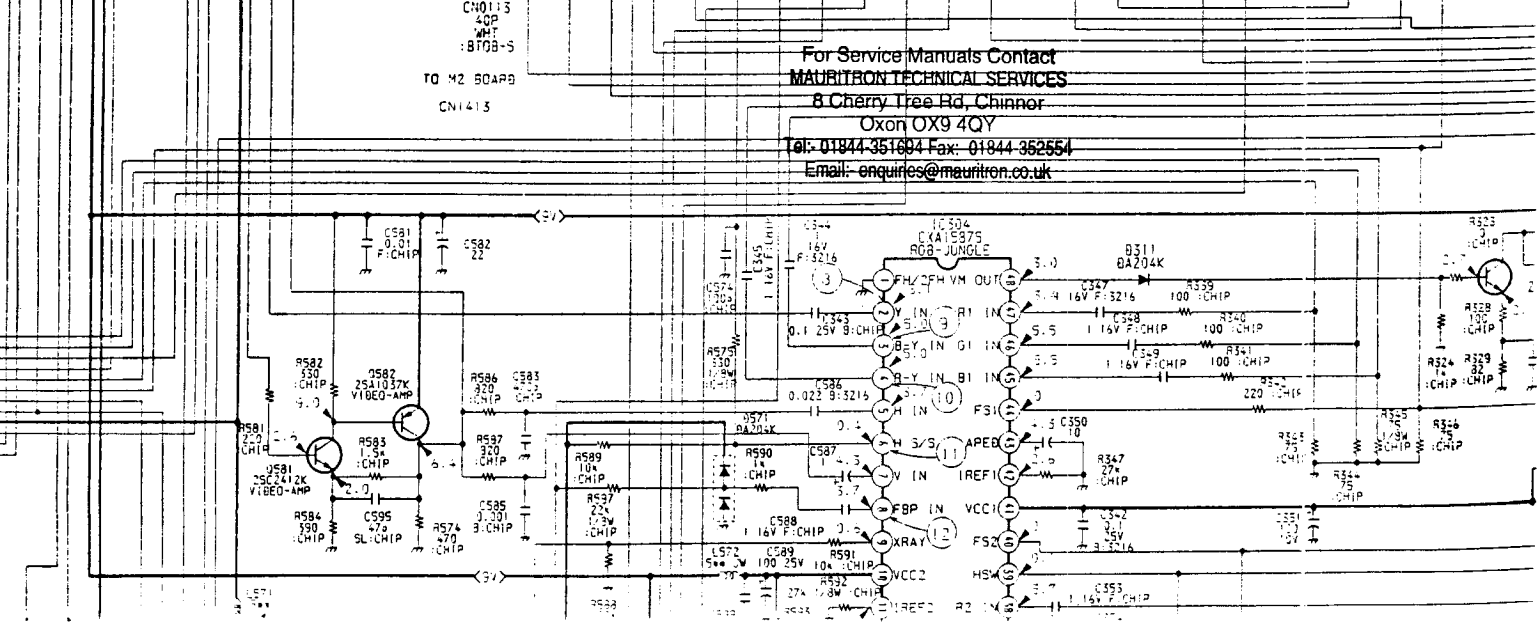


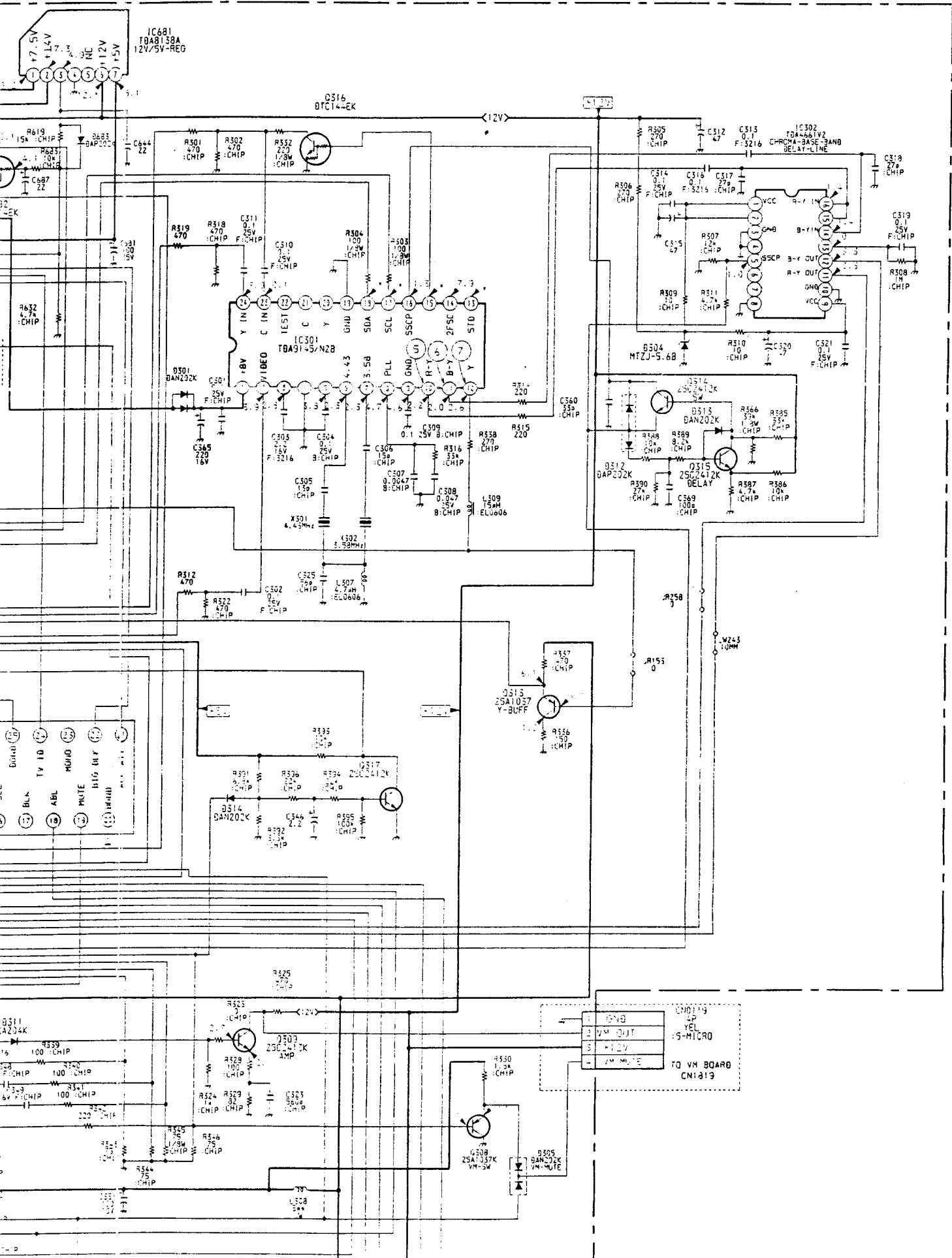


TO B BOARD
CN0504

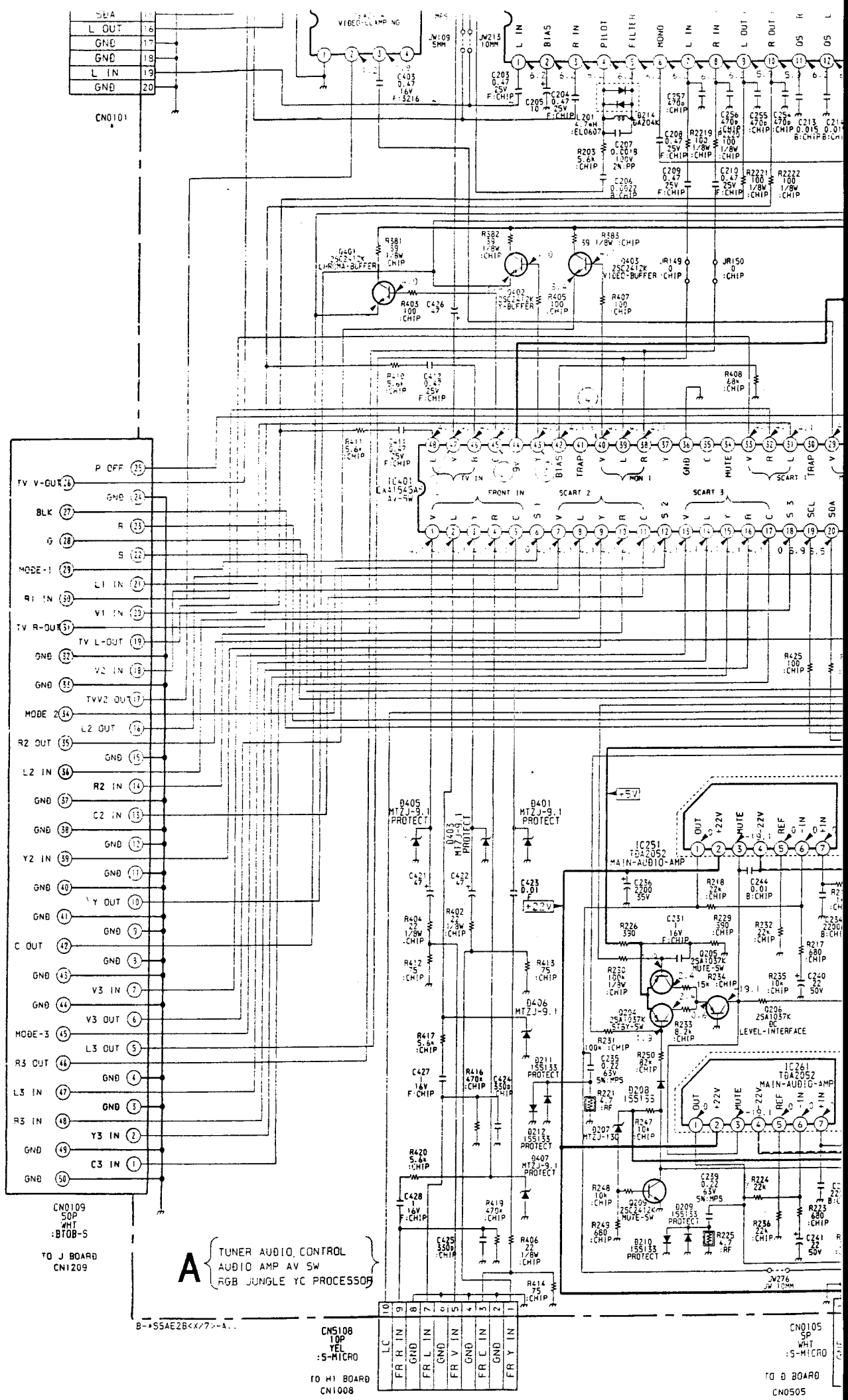
TO M2 BOARD
CN1413

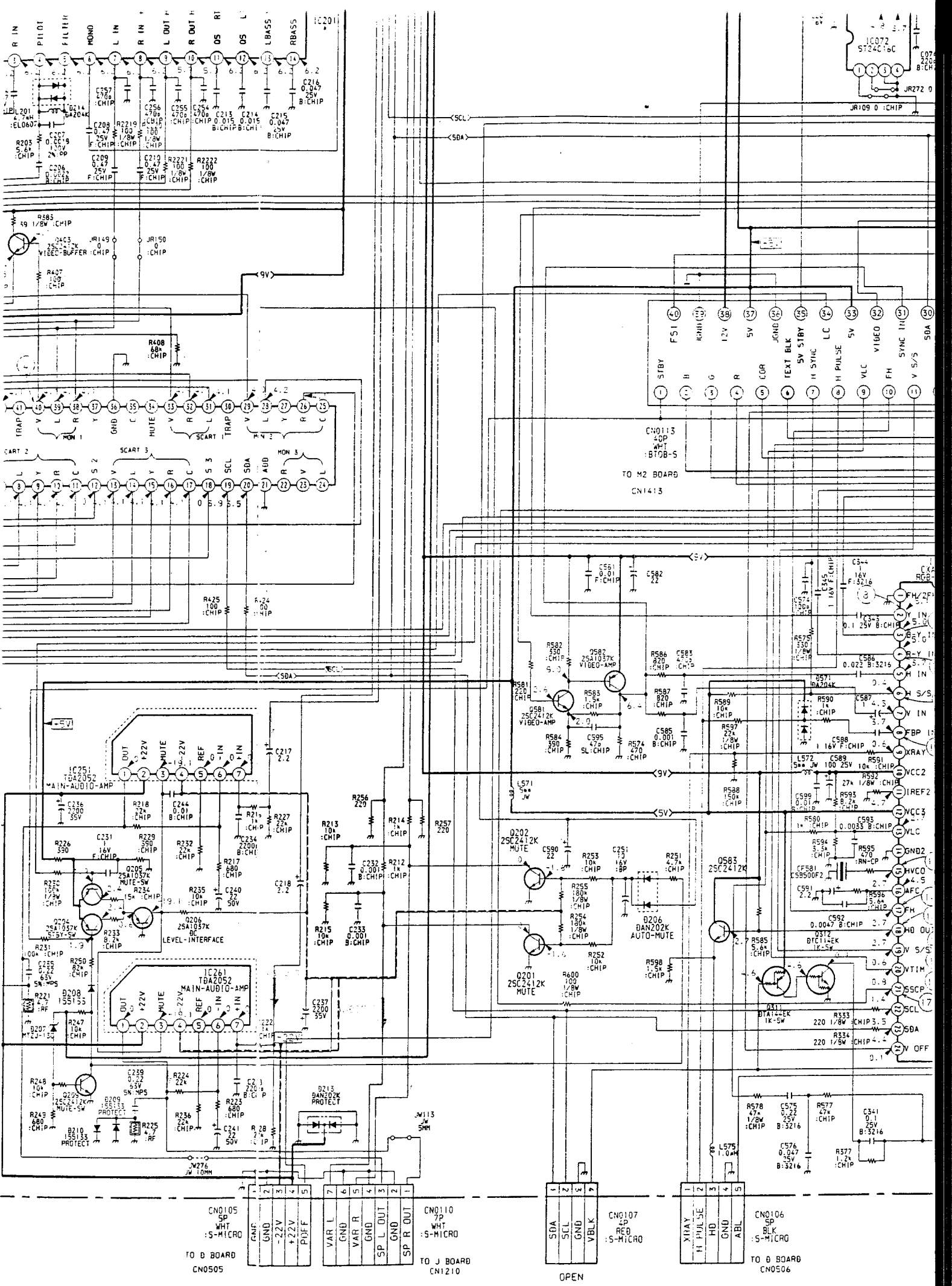
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E
F
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H
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J
K
L
M
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P





TO D BOARD
CN0505

1	GND
2	GND
3	-2.2V
4	+2.2V
5	PDF.F
6	VAR L
7	GND
8	VAR R
9	GND
10	SP L OUT
11	GND
12	SP R OUT

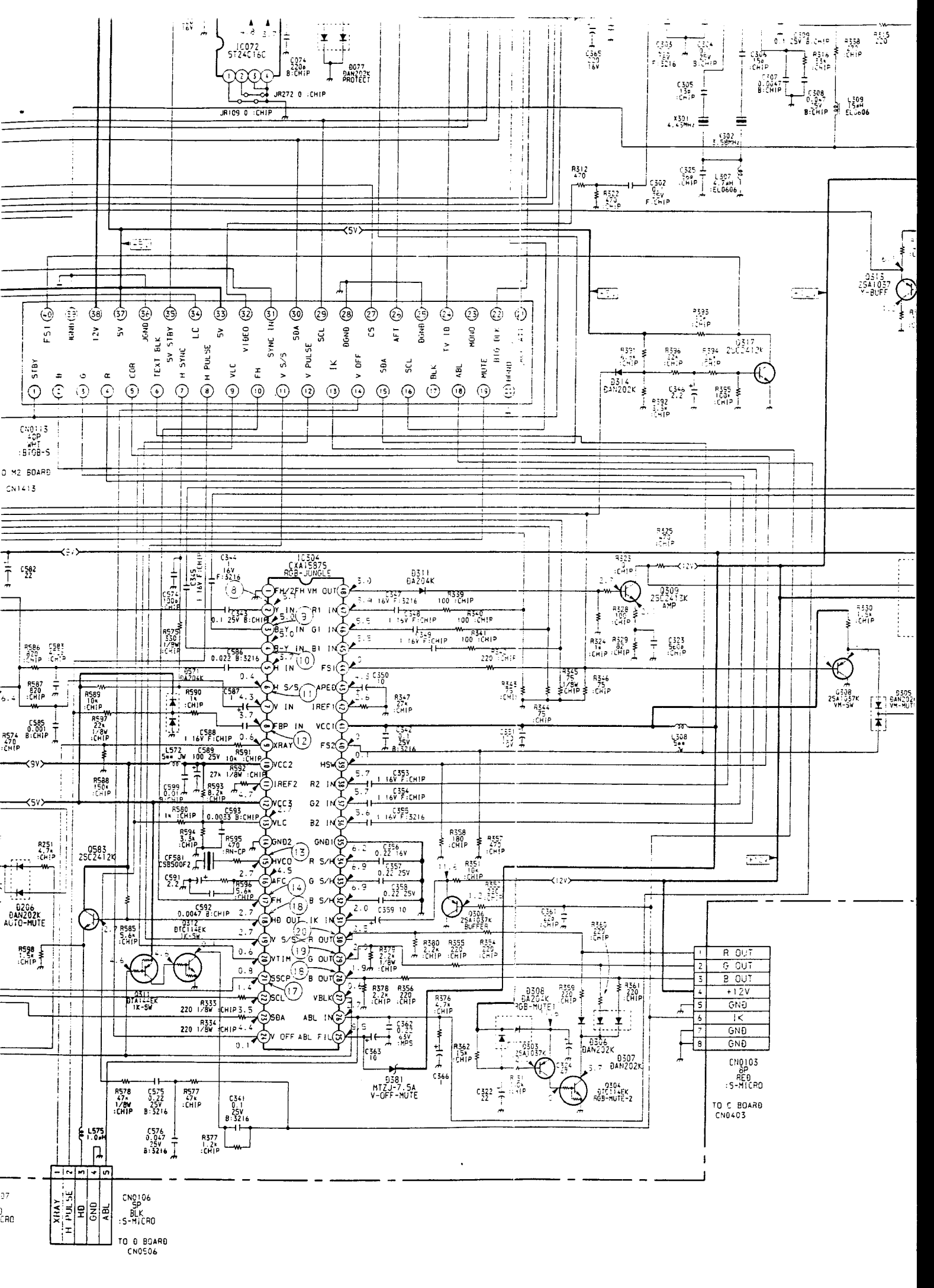
TO J BOARD
CN1210

OPEN

1	SDA
2	SCL
3	GND
4	VBLK

TO B BOARD
CN0506

1	XRAY
2	H PULSE
3	HD
4	GND
5	ABL



D M2 BOARD
CN1413

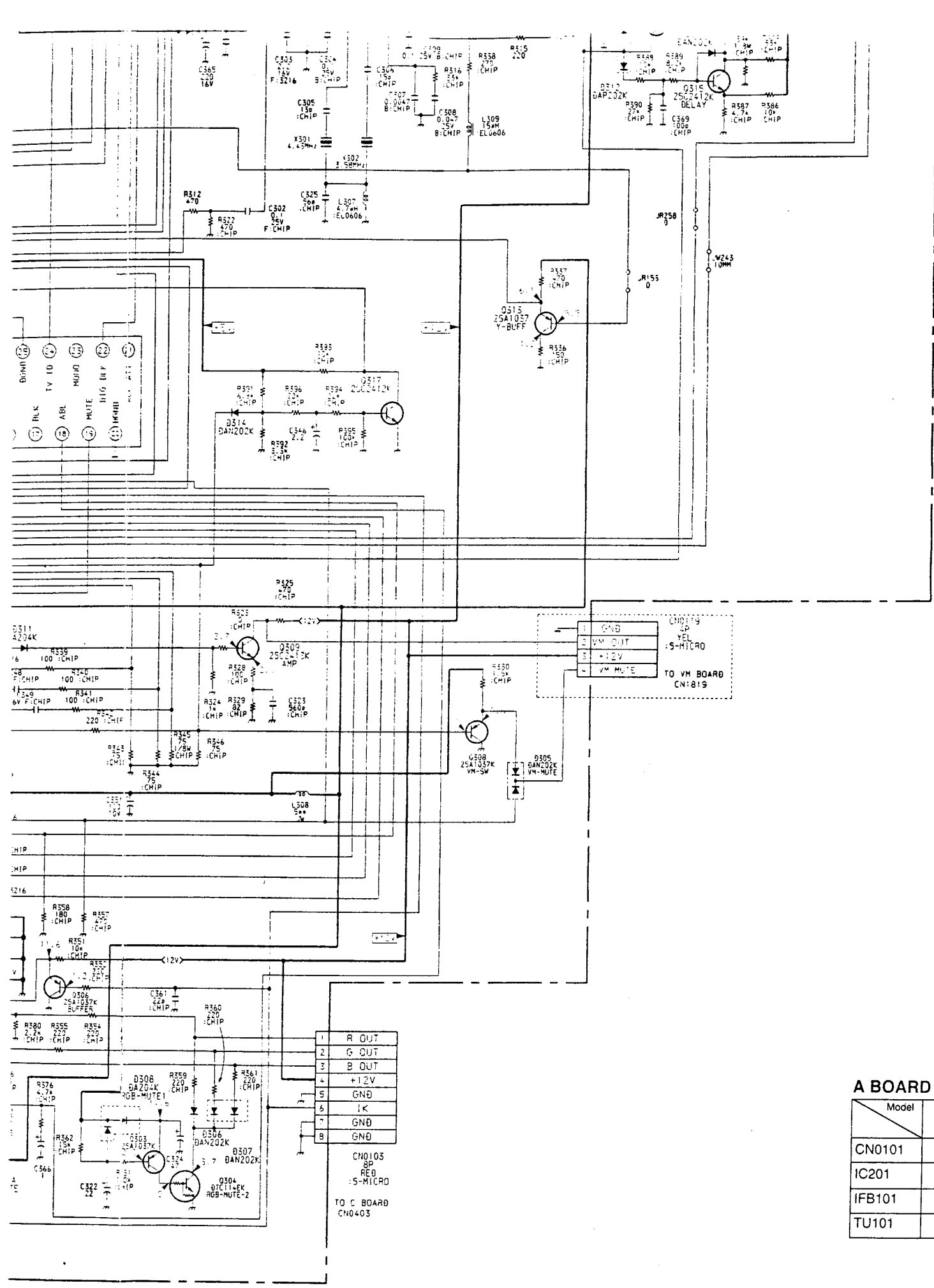
- | | |
|---|-------|
| 1 | R OUT |
| 2 | G OUT |
| 3 | B OUT |
| 4 | +12V |
| 5 | GND |
| 6 | IK |
| 7 | GND |
| 8 | GND |

TO B BOARD
CN0506

TO C BOARD
CN0403

TO D BOARD
CN0106

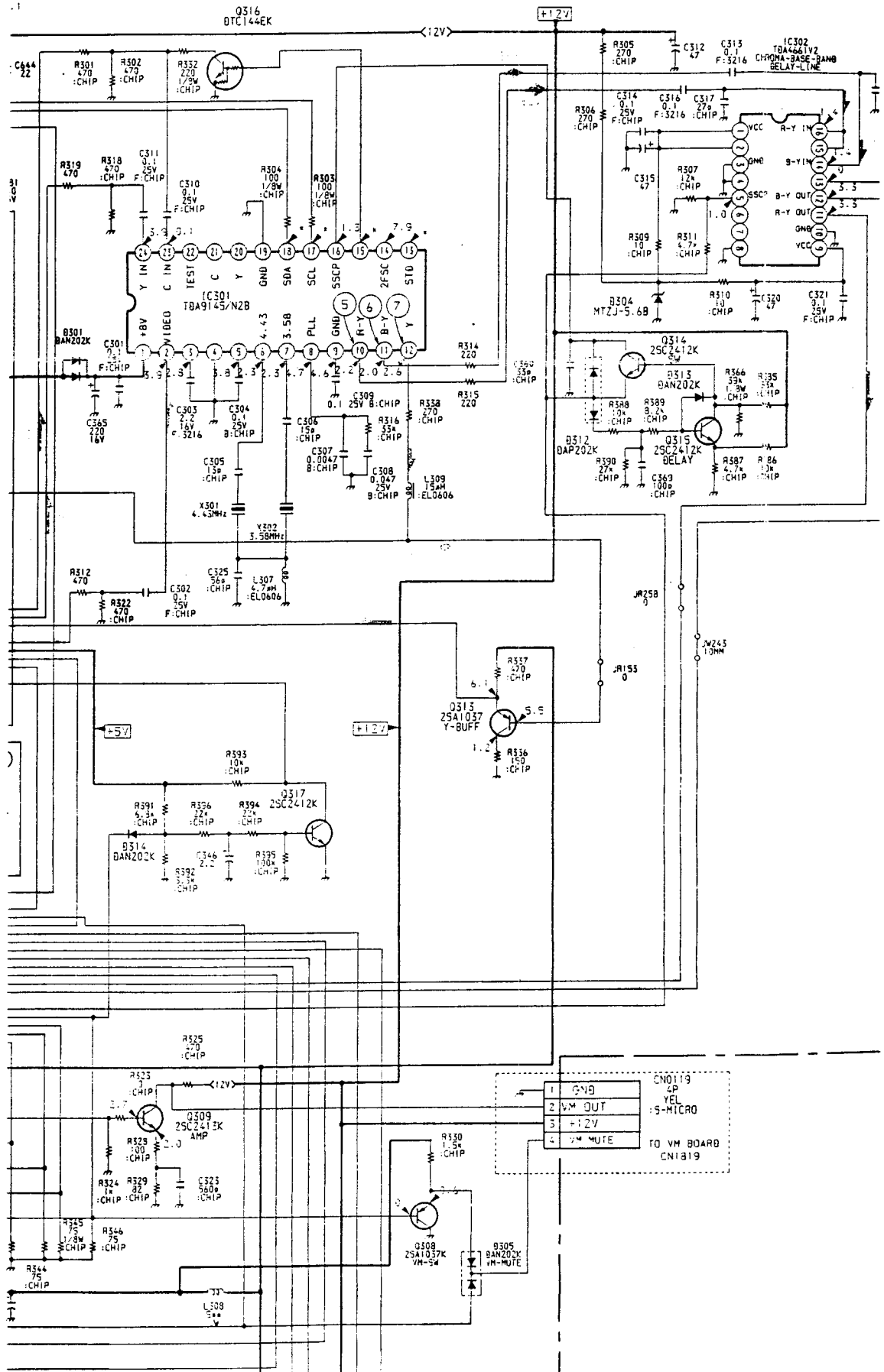
SP
BLK
S-MICRO



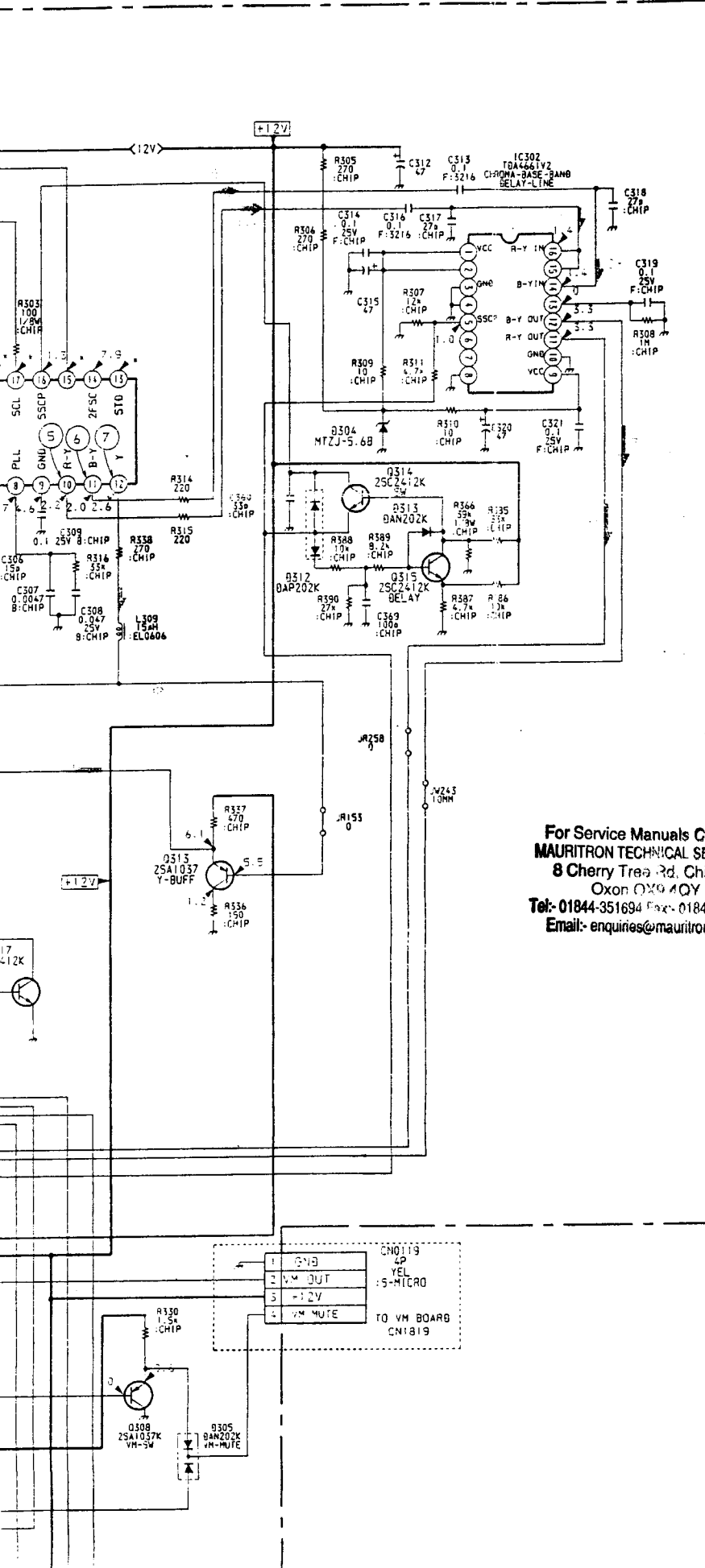
A BOARD * M

Model	KV-
CN0101	TD
IC201	TD
IFB101	IFH
TU101	UV

IC681
T0A8138A
12V/5V-REG



• WAVEFORMS A BOARD



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① PAL 1.1 Vp-p (H)	① SECAM 1.2 Vp-p (H)	①
② NTSC 1.8 Vp-p (H)	③ PAL 2.3 Vp-p (H)	③
④ SECAM 2.4 Vp-p (H)	④ NTSC 2.8 Vp-p (H)	⑤
⑥ PAL 0.8 Vp-p (H)	⑥ SECAM 1.5 Vp-p (H)	⑥
⑧ PAL 0.5 Vp-p (H)	⑧ SECAM 0.4 Vp-p (H)	⑧
⑩ PAL, SECAM 1.2 Vp-p (H)	⑩ NTSC 1.0 Vp-p (H)	⑪
⑭ 4.7 Vp-p (H)	⑮ 3.8 Vp-p (H)	⑯
⑲ 3.6 Vp-p (H)	⑳ 4.1 Vp-p (H)	

As to the voltage value shown by the mark ✖ on the Schematic Diagram, see the another list.

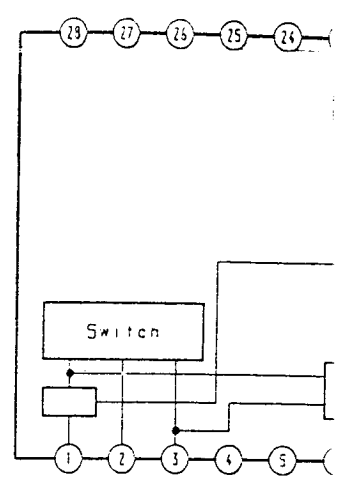
A BOARD

	PAL	SECAM	NTSC3.58	NTSC4.43
IC301 ①	0.0	0.0	4.8	4.9
②	0.0	5.0	5.0	0.0
③	4.7	4.2	3.6	4.1
④	4.8	4.4	4.6	4.8
Q301 ⑤	0.0	0.0	0.0	1.6

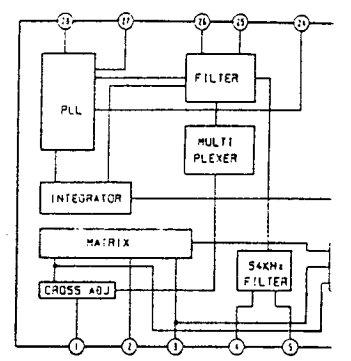
A BOARD

	① SECAM 1.2 Vp-p (H)	① NTSC 1.4 Vp-p (H)	② PAL 1.9 Vp-p (H)	② SECAM 1.3 Vp-p (H)
	③ PAL 2.3 Vp-p (H)	③ SECAM 2.2 Vp-p (H)	③ NTSC 2.7 Vp-p (H)	④ PAL 2.3 Vp-p (H)
	④ NTSC 2.8 Vp-p (H)	⑤ PAL 0.6 Vp-p (H)	⑤ SECAM 1.2 Vp-p (H)	⑤ NTSC 0.5 Vp-p (H)
	⑥ SECAM 1.5 Vp-p (H)	⑥ NTSC 0.7 Vp-p (H)	⑦ PAL, SECAM 0.5 Vp-p (H)	⑦ NTSC 0.5 Vp-p (H)
	⑧ SECAM 0.4 Vp-p (H)	⑧ NTSC 0.6 Vp-p (H)	⑨ PAL, SECAM 1.5 Vp-p (H)	⑨ NTSC 1.5 Vp-p (H)
CAM	⑩ NTSC 1.0 Vp-p (H)	⑪ 5.2 Vp-p (H)	⑫ 6.7 Vp-p (H)	⑬ 0.12 Vp-p(540KHZ)
	⑮ 3.8 Vp-p (H)	⑯ 5.0 Vp-p (H)	⑰ 8.9 Vp-p (H)	⑱ 3.3 Vp-p (H)
	⑳ 4.1 Vp-p (H)			

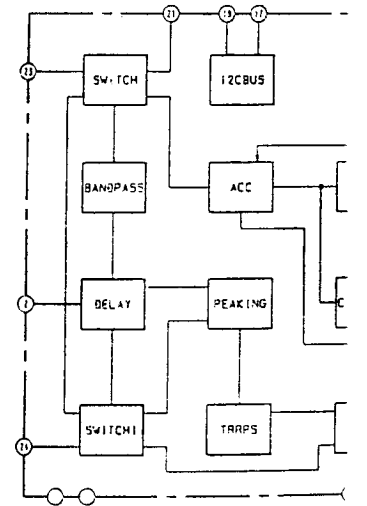
• A BOARD IC201 TDA66



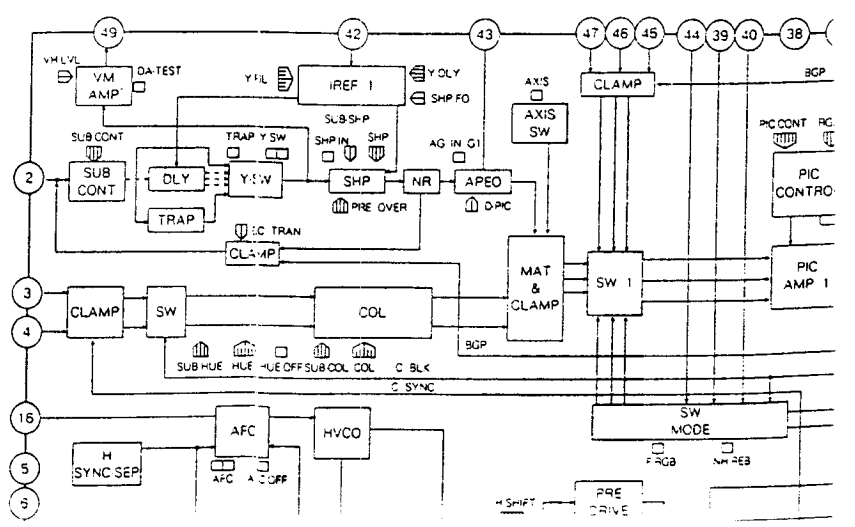
• A BOARD IC201 TDA66



• A BOARD IC301 TDA91



• A BOARD IC304 CXA1587S



ge value shown by
the Schematic
e another list.

SECAM	NTSC3.58	NTSC4.43
0.0	4.8	4.9
5.0	5.0	0.0
4.2	3.6	4.1
4.4	4.6	4.3
0.0	0.0	1.6

SECAM
3 Vp-p (H)

PAL
5 Vp-p (H)

NTSC
5 Vp-p (H)

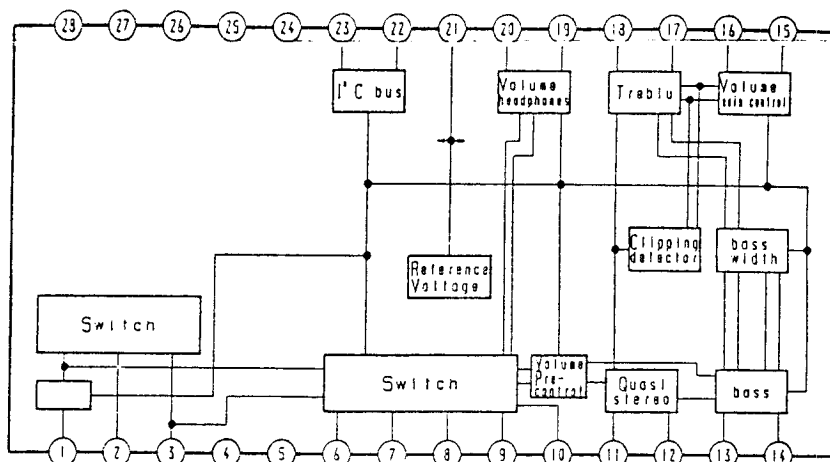
NTSC
5 Vp-p (H)

NTSC
5 Vp-p (H)

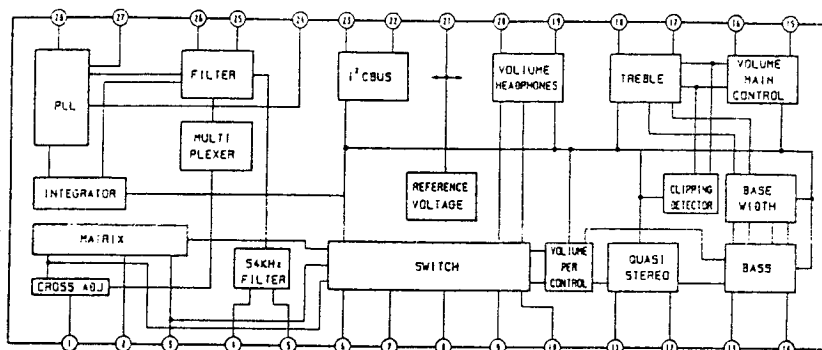
2 Vp-p(540KHZ)

5 Vp-p (H)

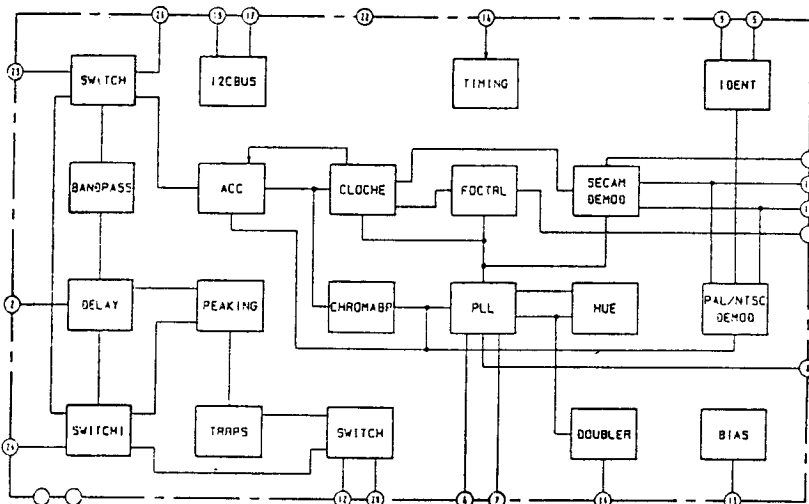
• A BOARD IC201 TDA6622 (UK Model only)



• A BOARD IC201 TDA6612

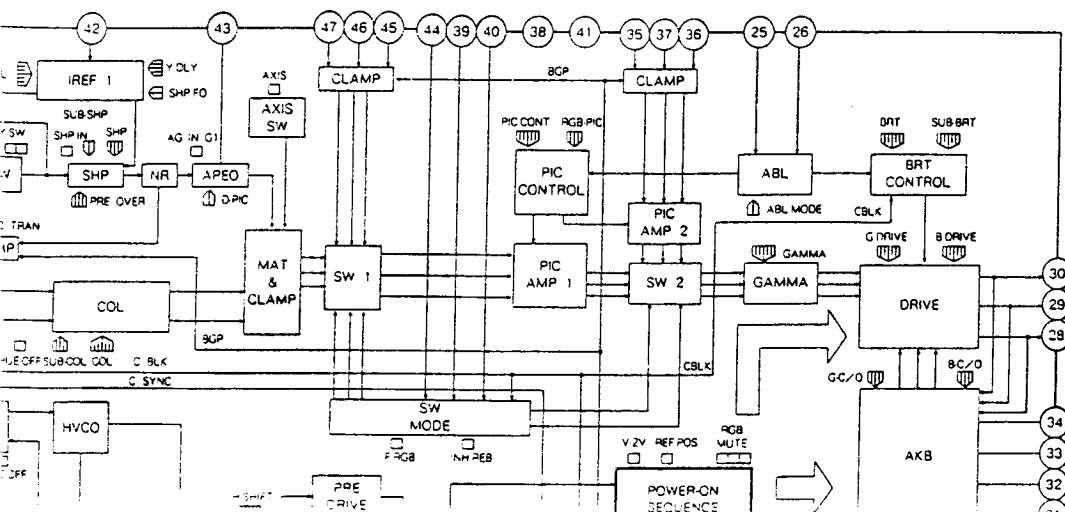


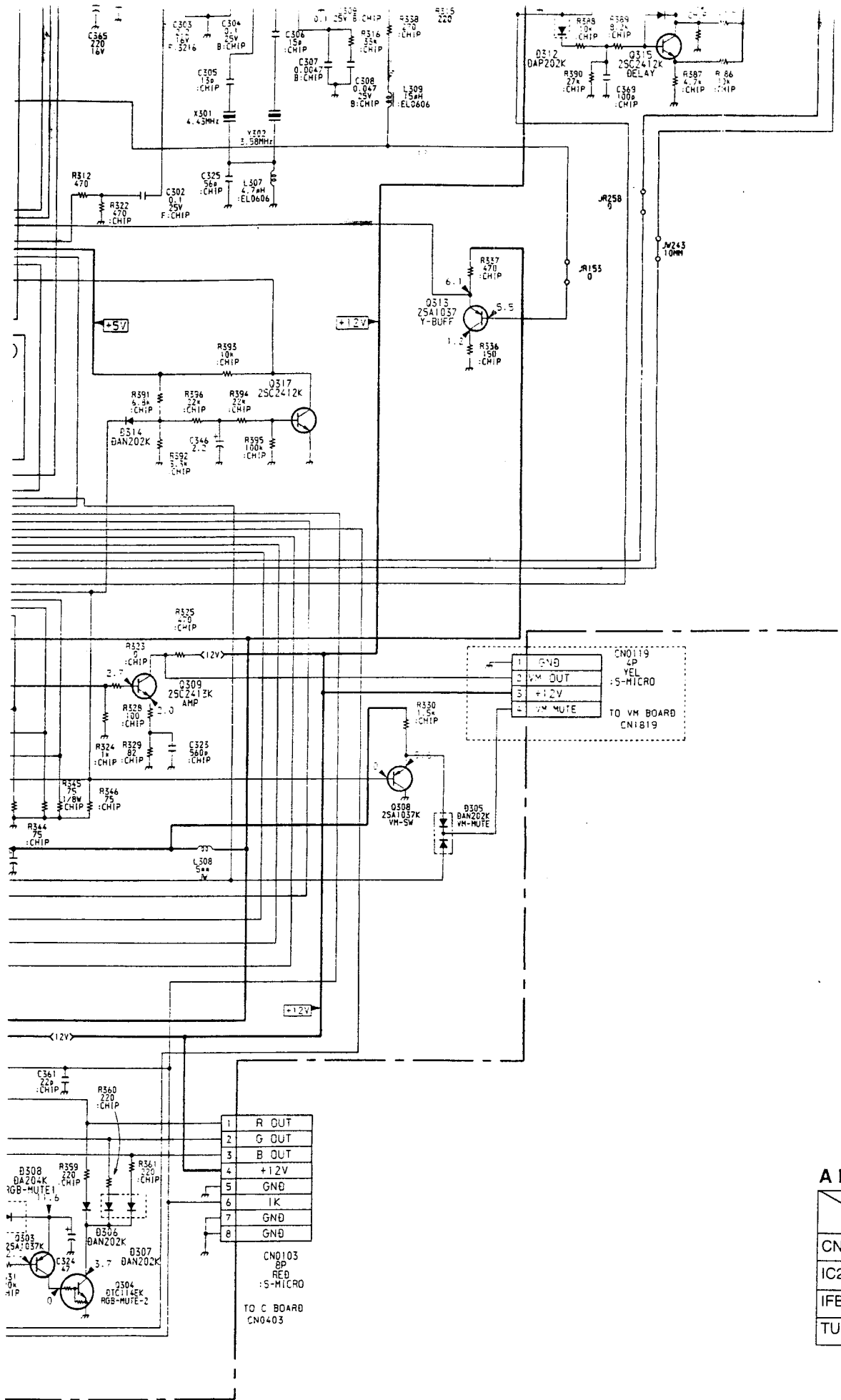
• A BOARD IC301 TDA9145



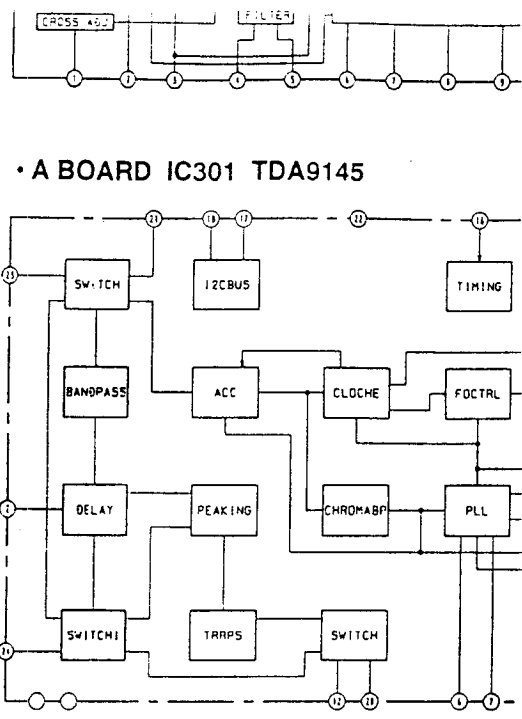
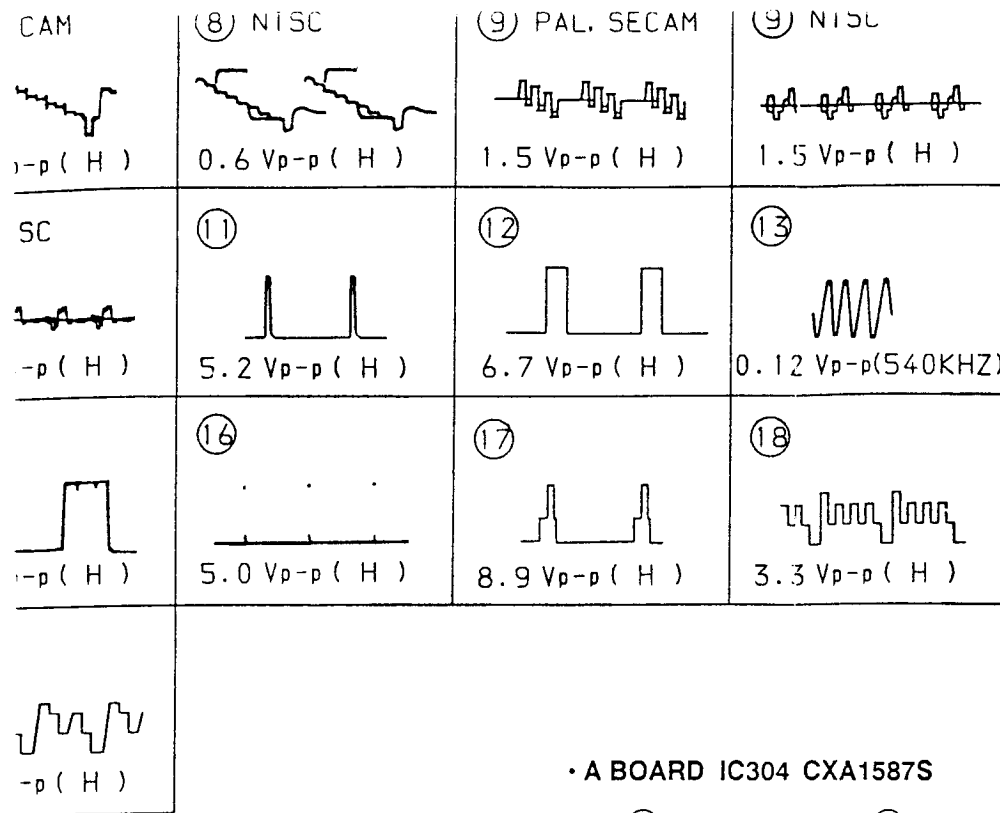
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CXA1587S

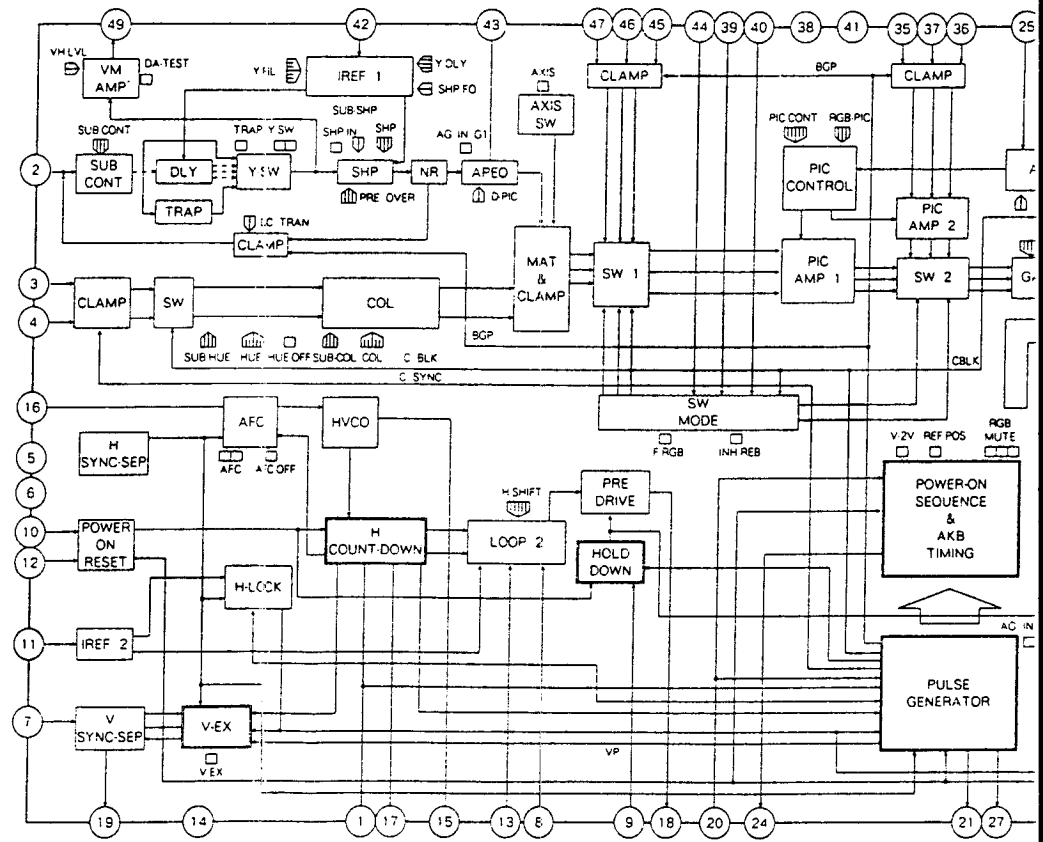




AE
 CN0103
 IC2
 IFB
 TU1



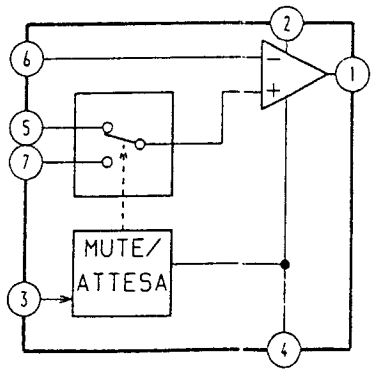
• A BOARD IC304 CXA1587S



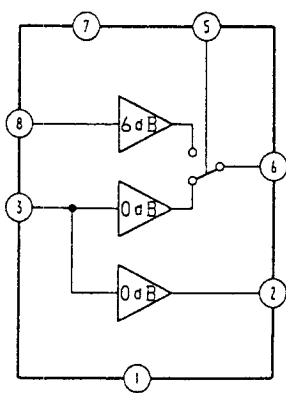
NTSC4.43
4.9
0.0
4.1
4.8
1.6
0.1
0.0
1.6

KV-X2971K	KV-X2973E	KV-X2972U
-	20P	20P
TDA6612	TDA6612	TDA6622
IFH-389	IFH-389	IFH-395
UV916H	UV916H	U944C

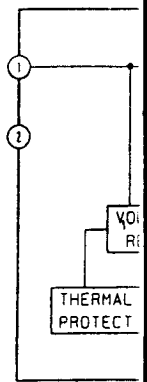
• A BOARD IC251/261 TDA2052



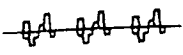
• A BOARD IC402 TEA2114



• A BOARD



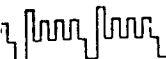
NTSC



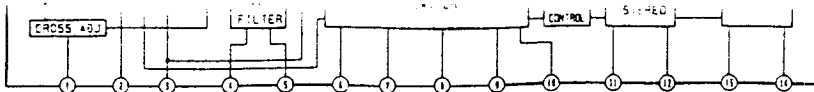
5 Vp-p (H)



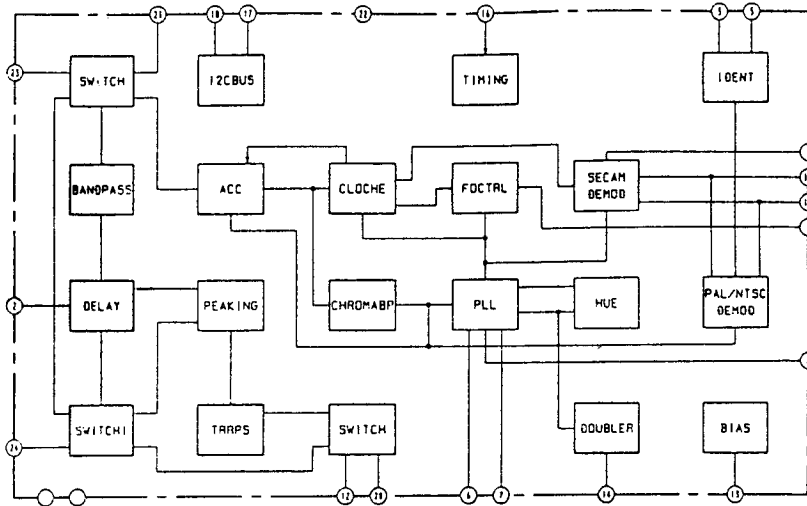
2 Vp-p(540KHZ)



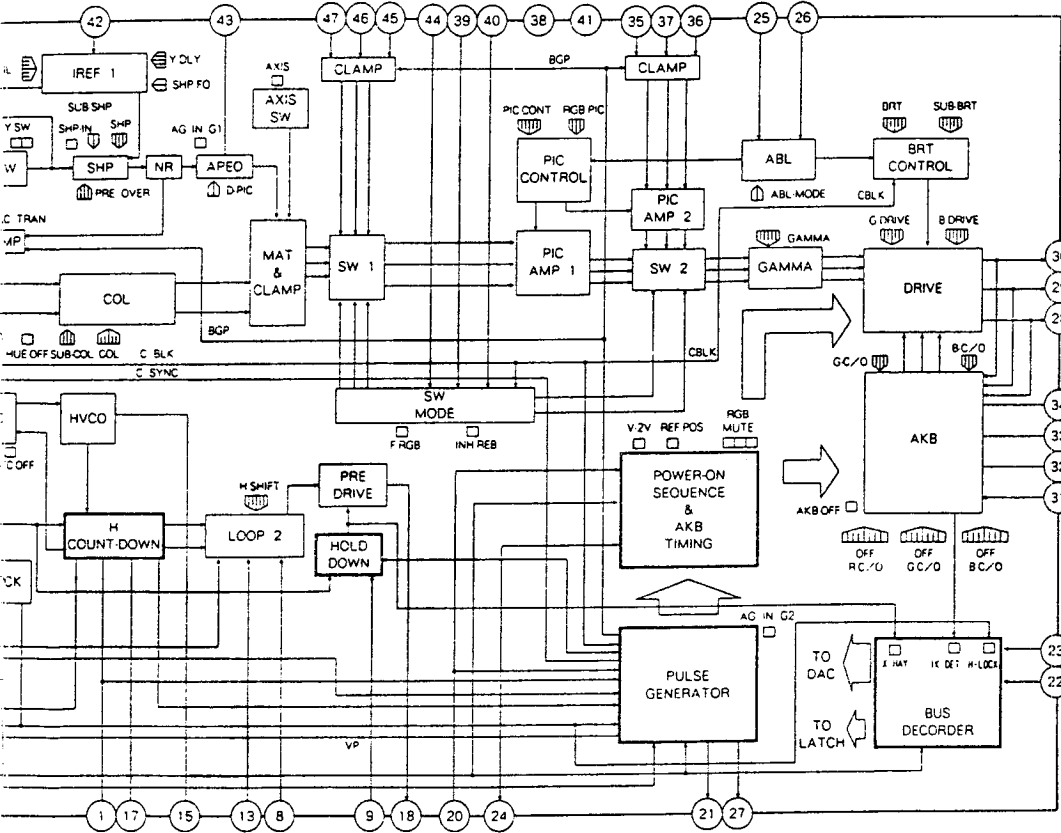
3 Vp-p (H)



• A BOARD IC301 TDA9145



CXA1587S

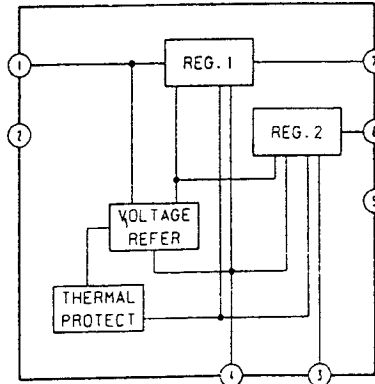
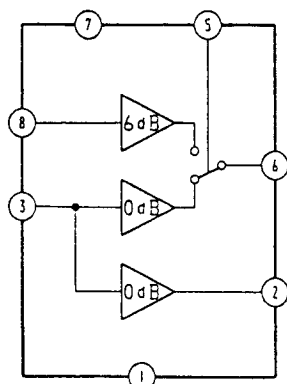
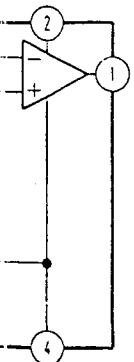


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• 261 TDA2052

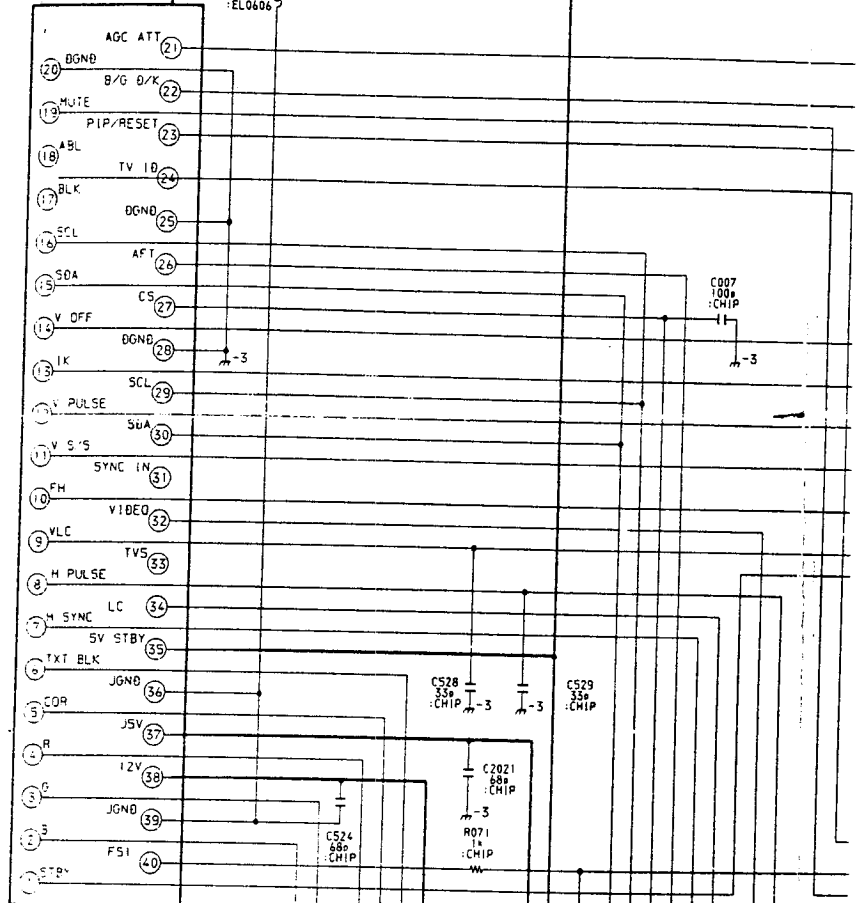
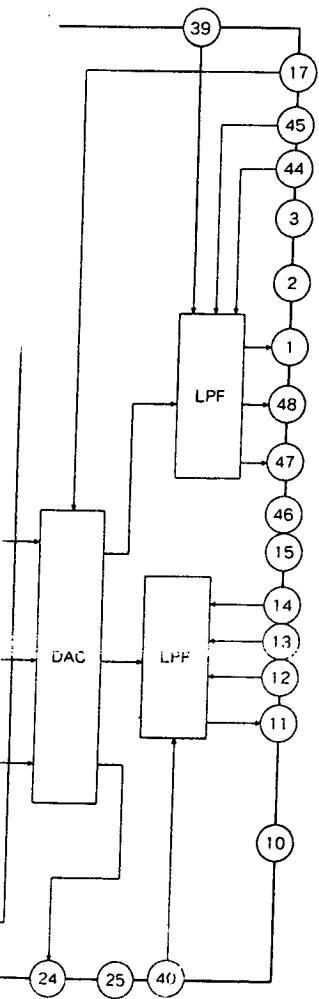
• A BOARD IC402 TEA2114

• A BOARD IC681 TDA8134A

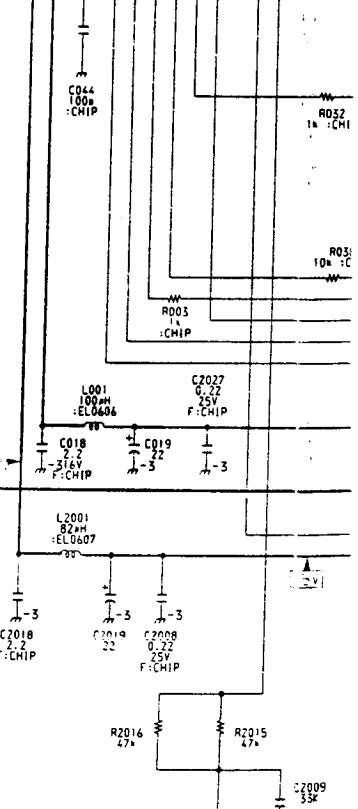


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B-+55AE2B<x/7>-M2.



EN1413
 LQP
 WHT
 :BTCB-P
 TO A BOARD
 EN1113



B-+55AE2B<x/7>-M2.

CN1435	7P	WHT	:MICRO
1	STBY-5V		
2	SAT LEVEL		
3	SEMI-STBY		
4	GND		
5	SCL		
6	SDA 2		
7	STB BY		

NOT USE0

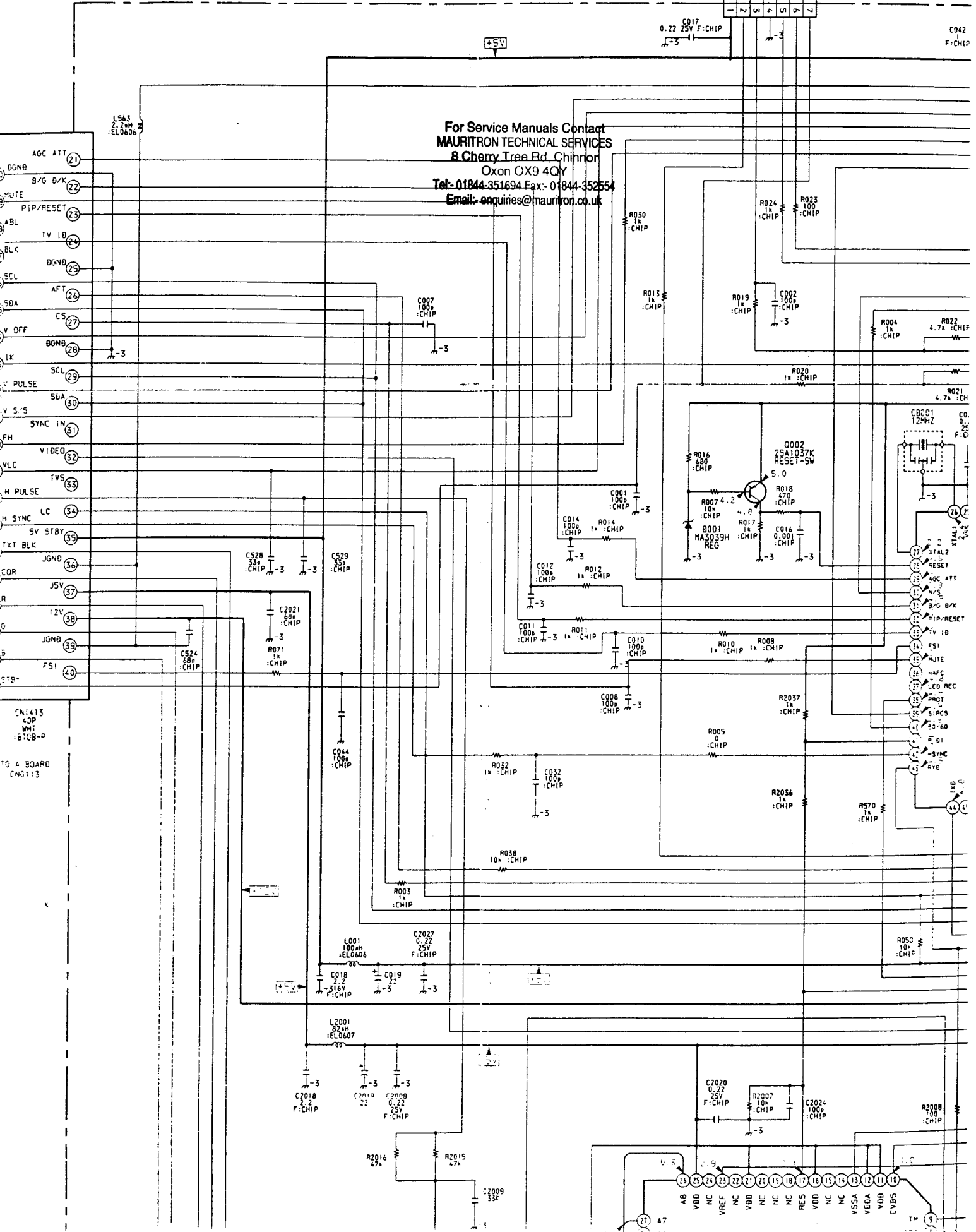
C

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- AGC ATT (21)
- B/G B/K (22)
- PIV/RESET (23)
- TV ID (24)
- OGND (25)
- AFT (26)
- CS (27)
- OGND (28)
- SCL (29)
- SDA (30)
- SYNC IN (31)
- VIDEO (32)
- TVS (33)
- LC (34)
- SV STBY (35)
- JGND (36)
- J5V (37)
- 12V (38)
- JGND (39)
- FS1 (40)

CN1413
 40P
 WHT
 :B:CB-D

TO 4 BOARD
 CN0113



:S

C042
 F:CHIP

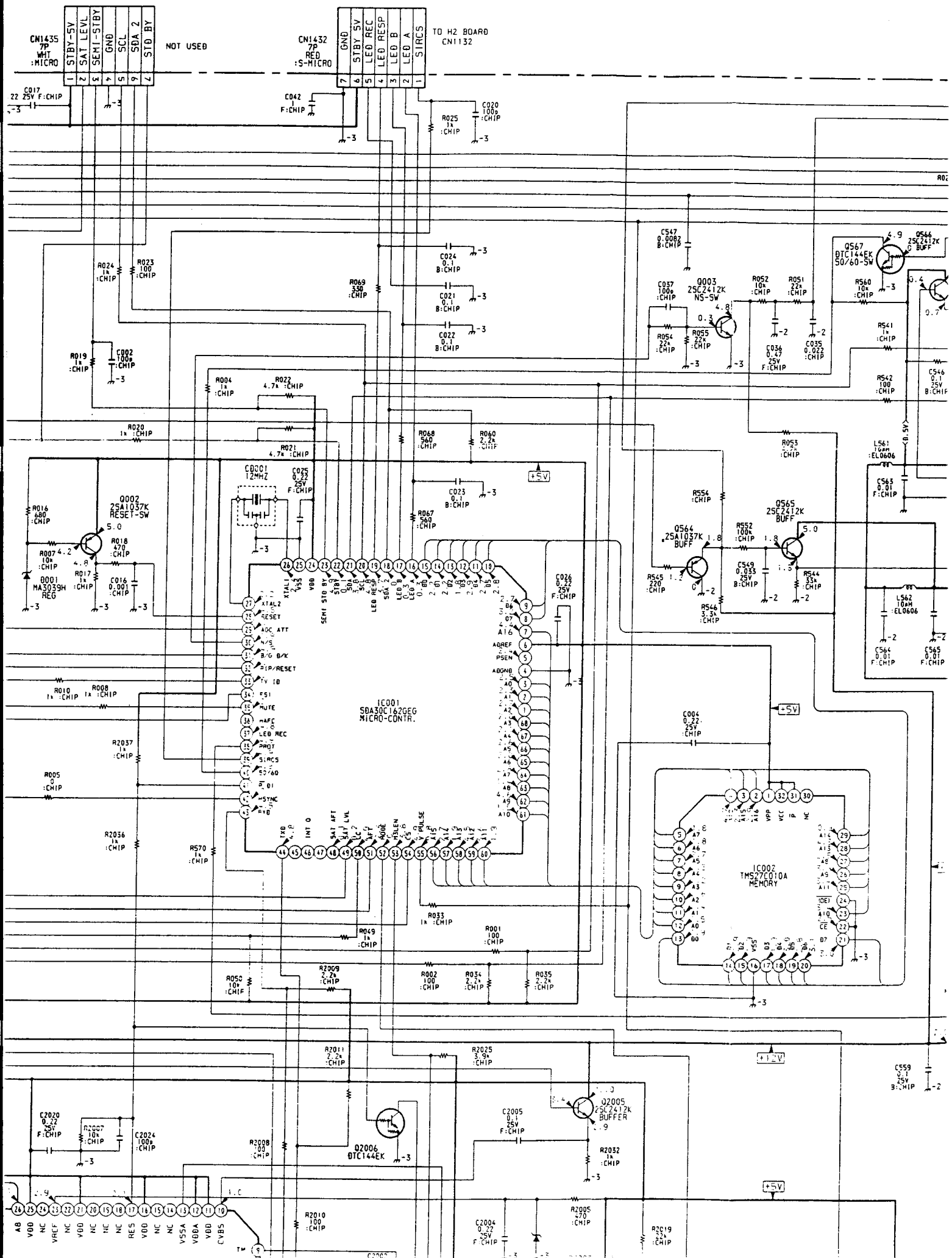
C001
 12MHZ
 CO. 0.25%
 F:CG

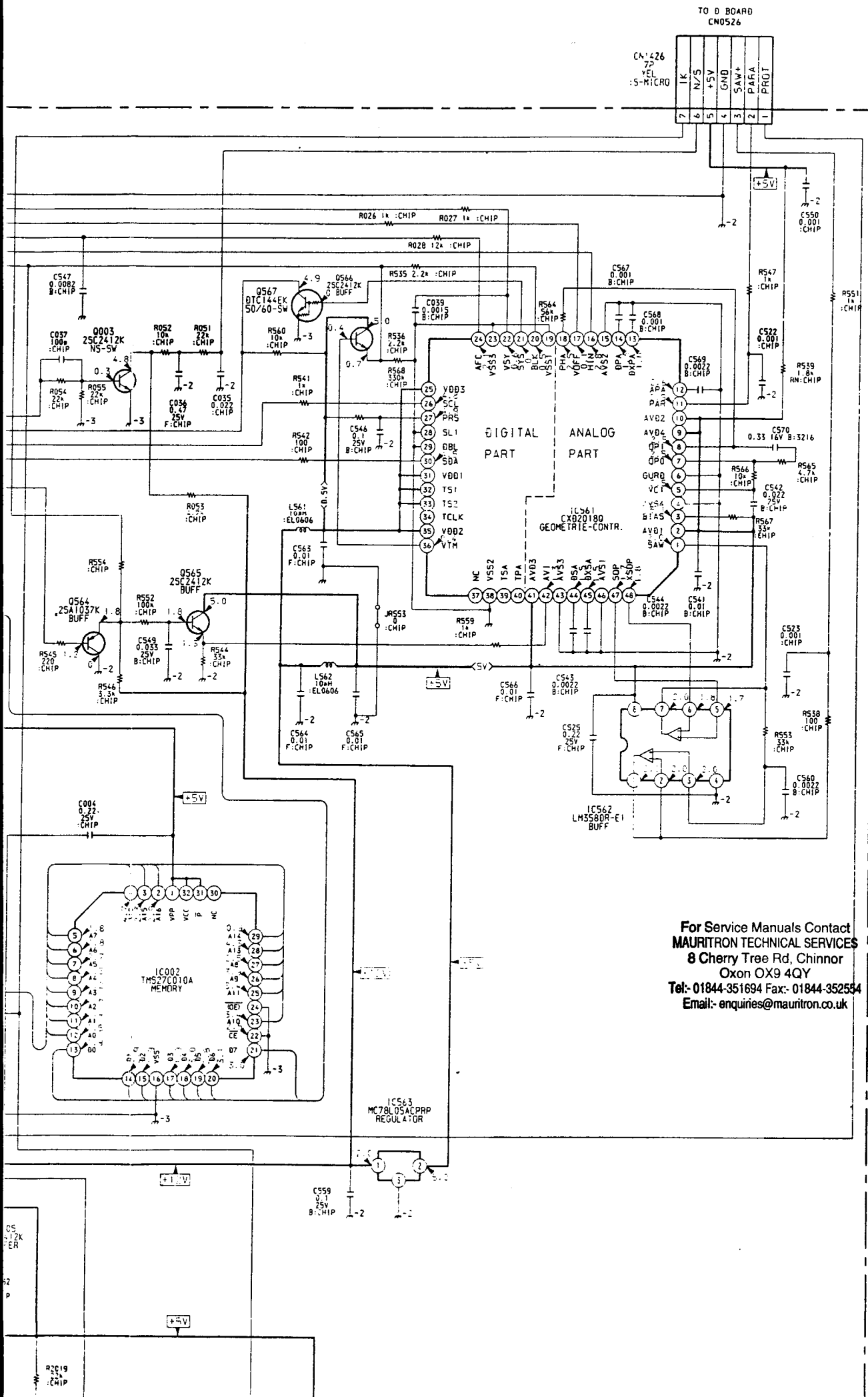
R570
 :CHIP

R505
 :CHIP

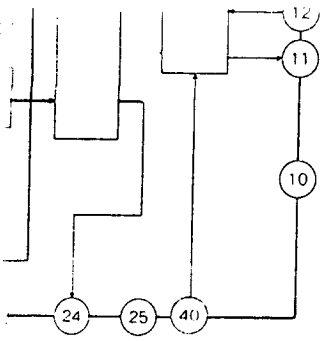
R2008
 :CHIP

A7

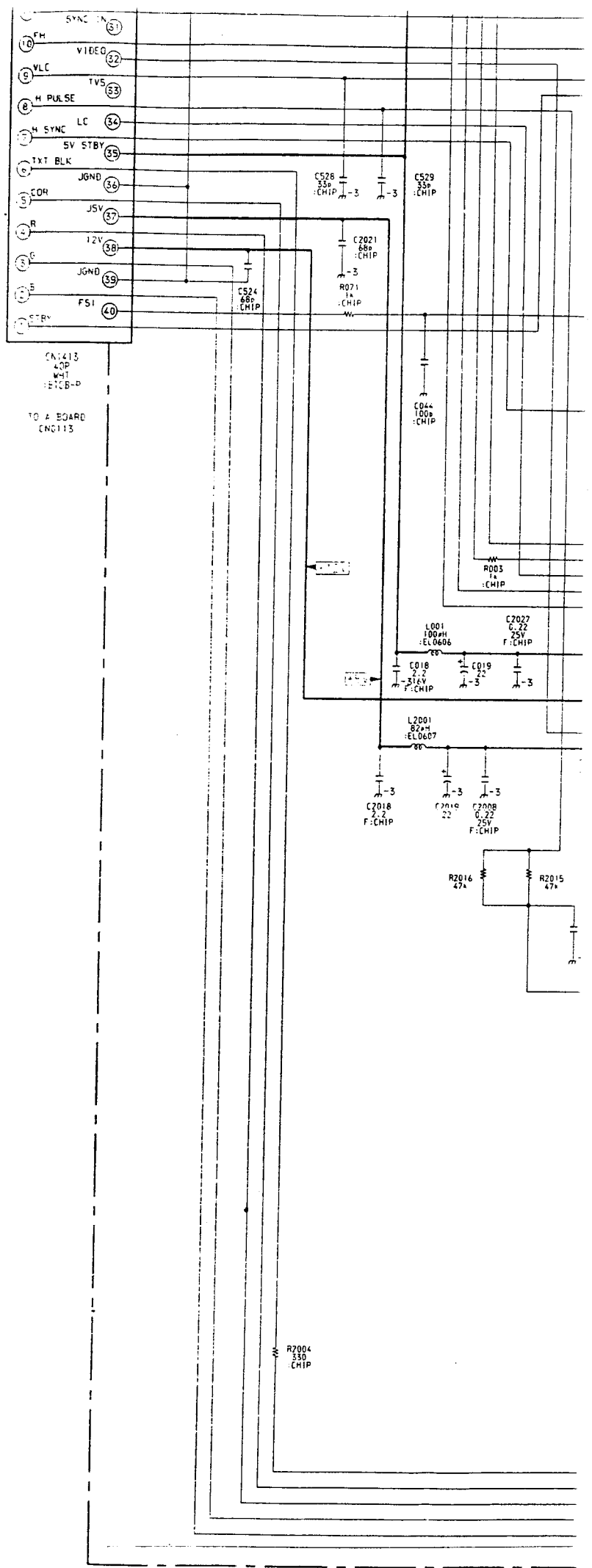


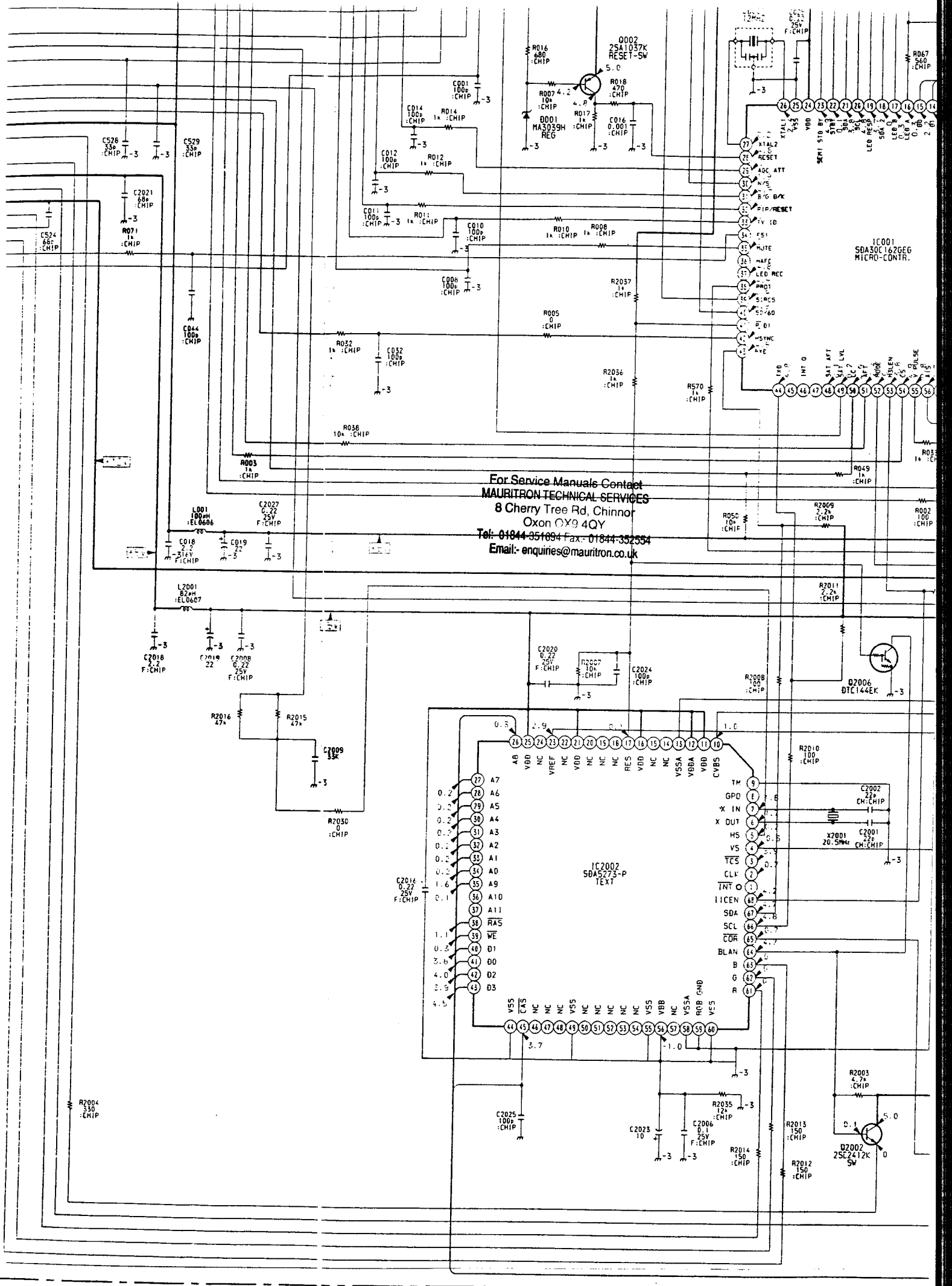


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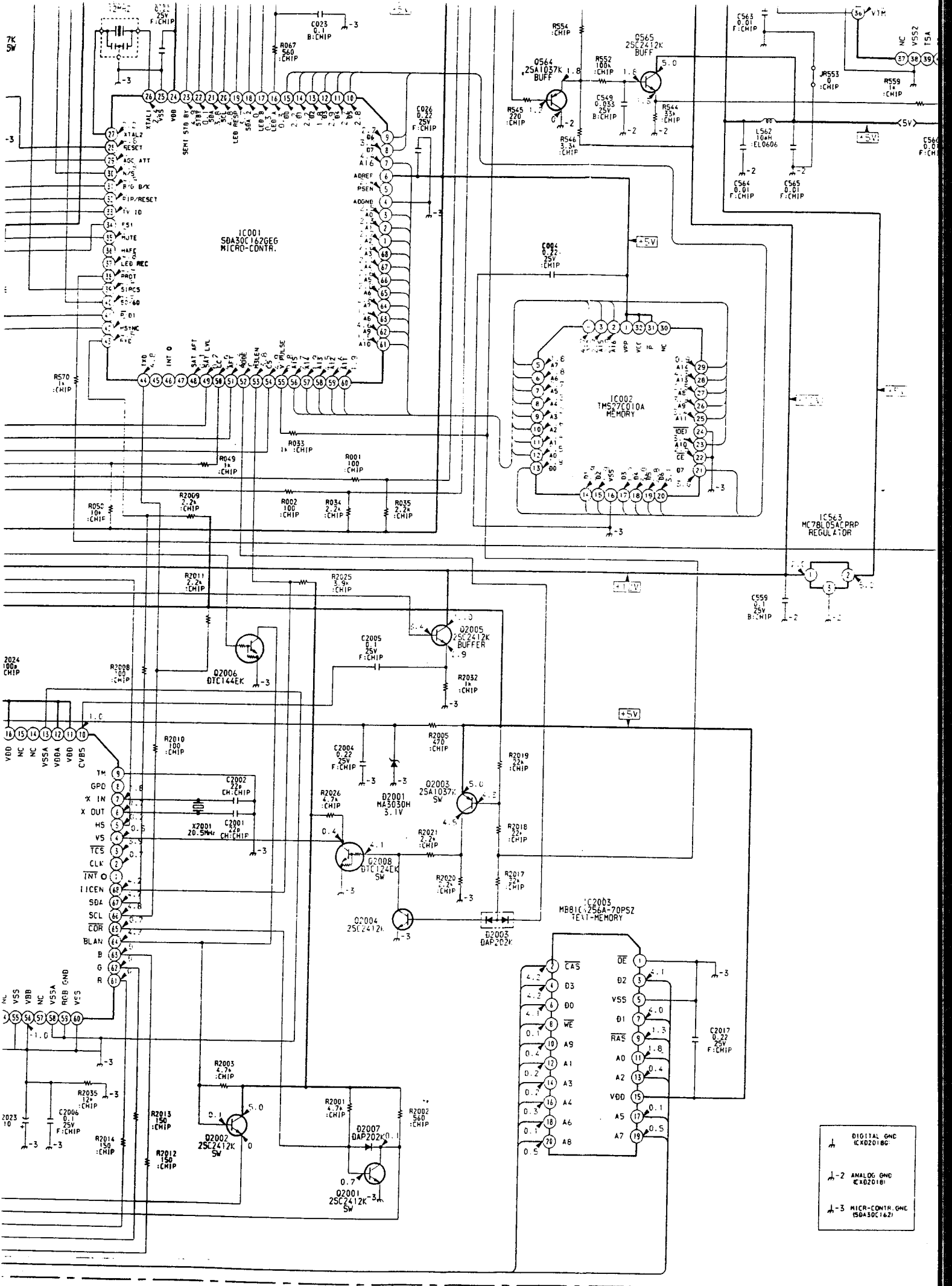


E
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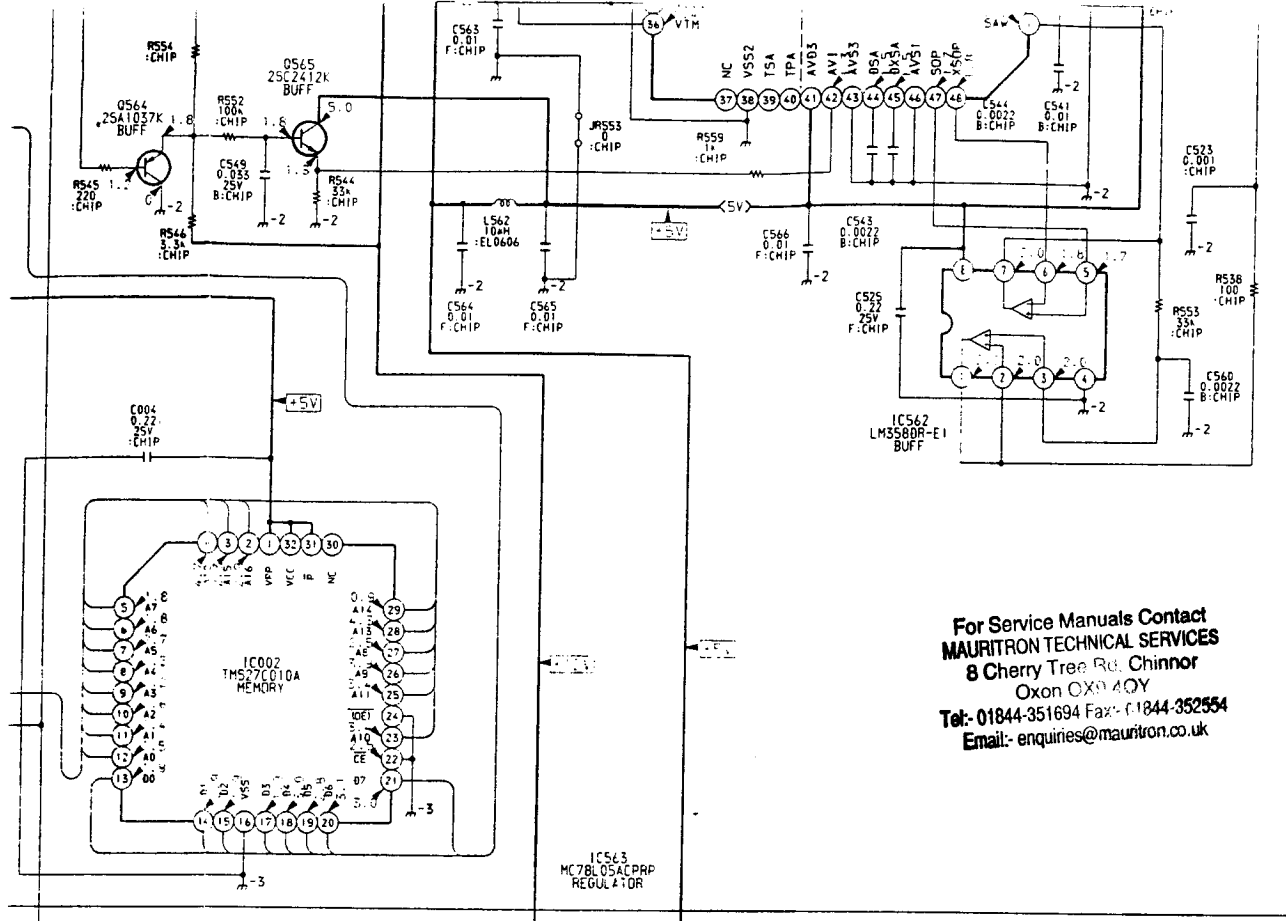




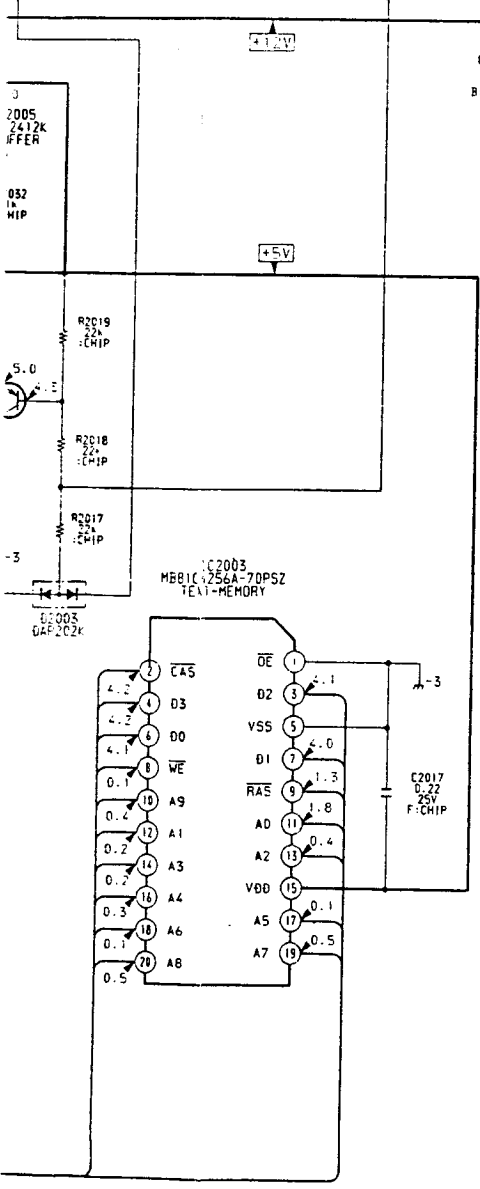
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□ DIGITAL GND (ICX2018C)
 □-2 ANALOG GND (ICX2018I)
 □-3 MICRO-CONTR. GND (SDA30C142)



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M2 { MICRO CONTROLLER
 GEOMETRY CONTROLLER
 JUNGLE M-DRIVE }

- 1 DIGITAL GND (ICX2018C)
- 1-2 ANALOG GND (ICX2018)
- 1-3 MICRO-CONTROLLER GND (ISA35C162)

M2

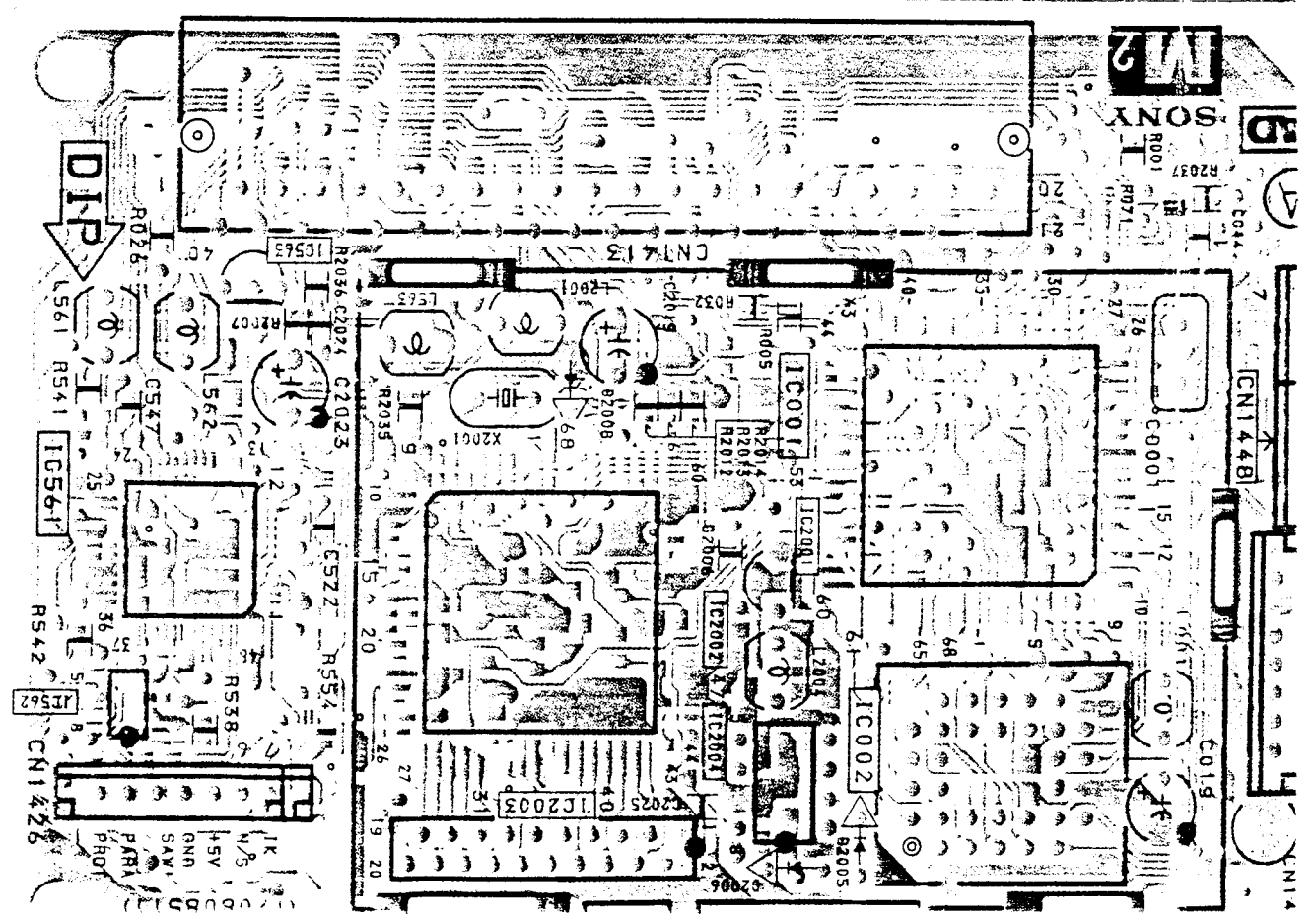
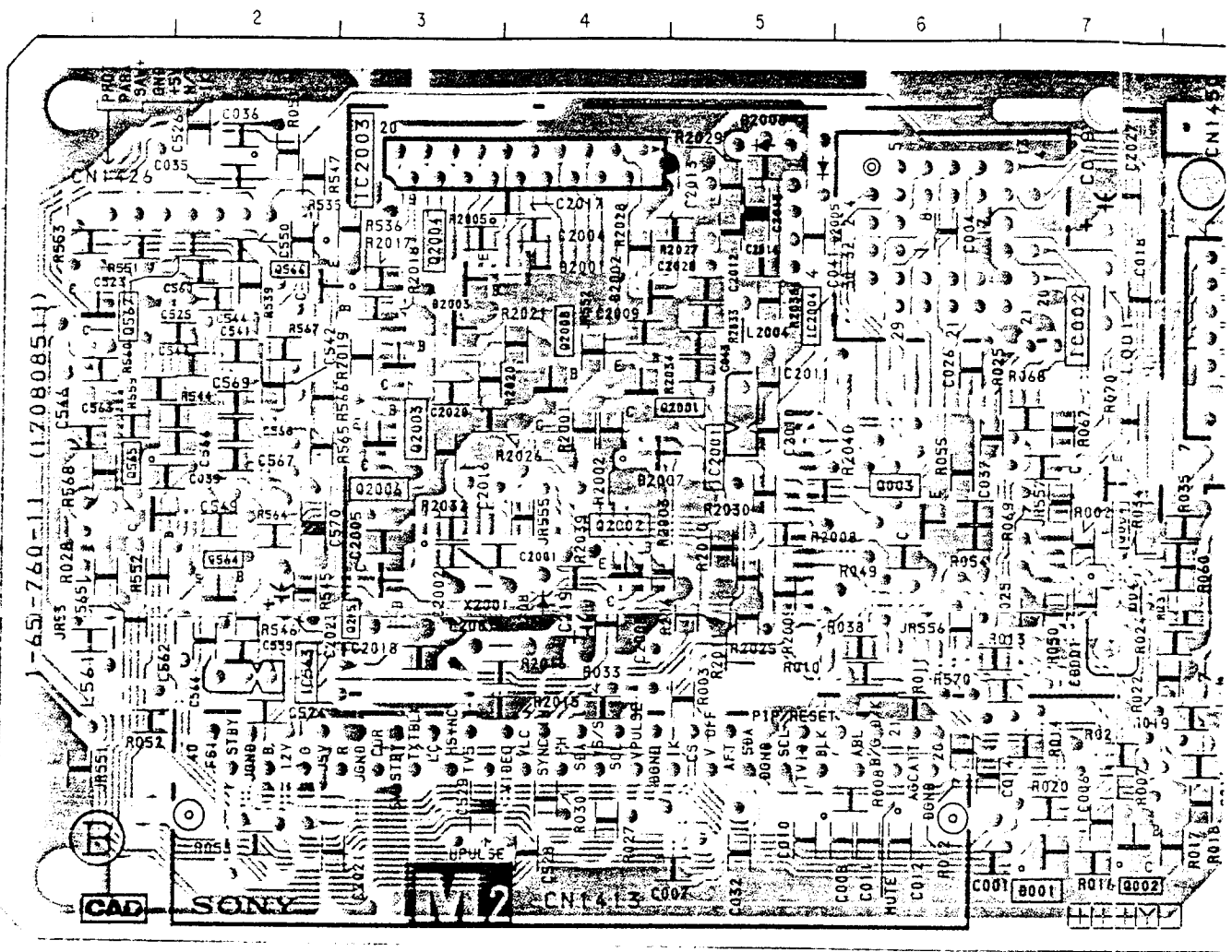
MICRO CONTRALLER,
GEOMETRY CONTROLLER,
JUNGLE, H - DRIVE

D

H/V OUT, PIN OUT,
POWER SUPPLY

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- M2 BOARD -



H/V OUT, PIN OUT,
POWER SUPPLY

A
D
H.E

B

C

D

E

F

G

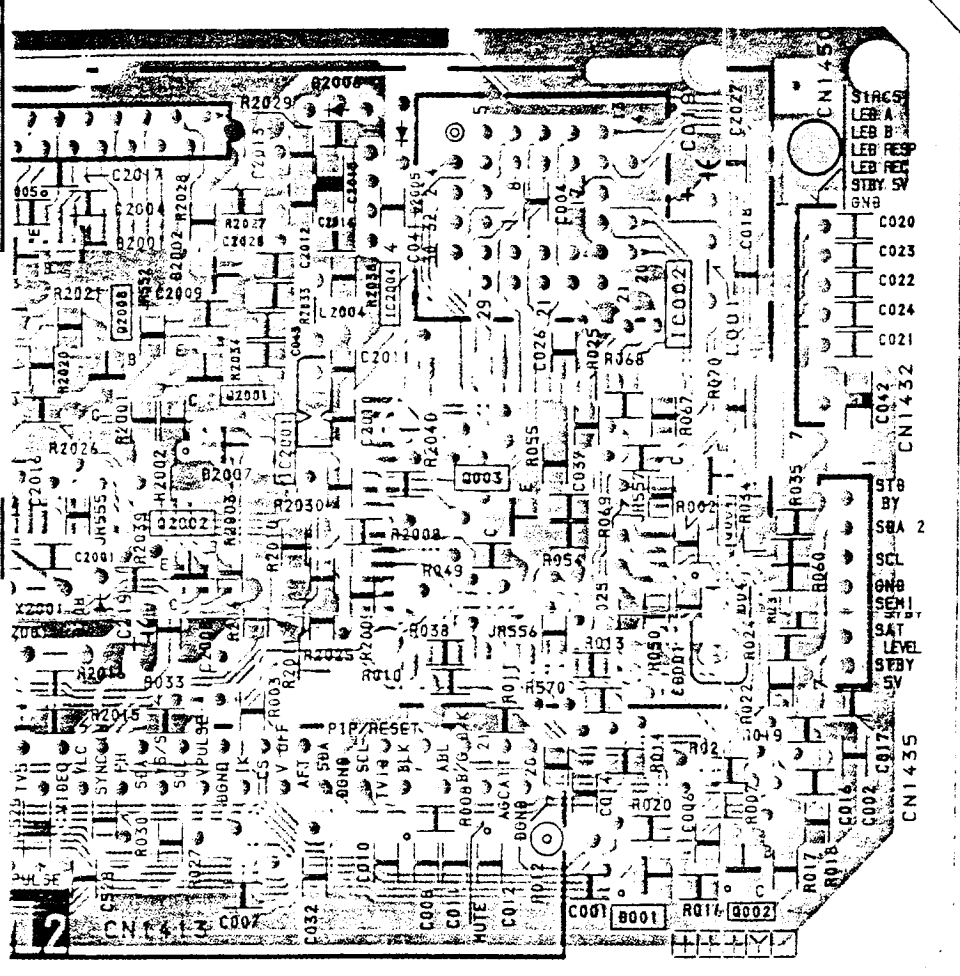
H

I

J

K

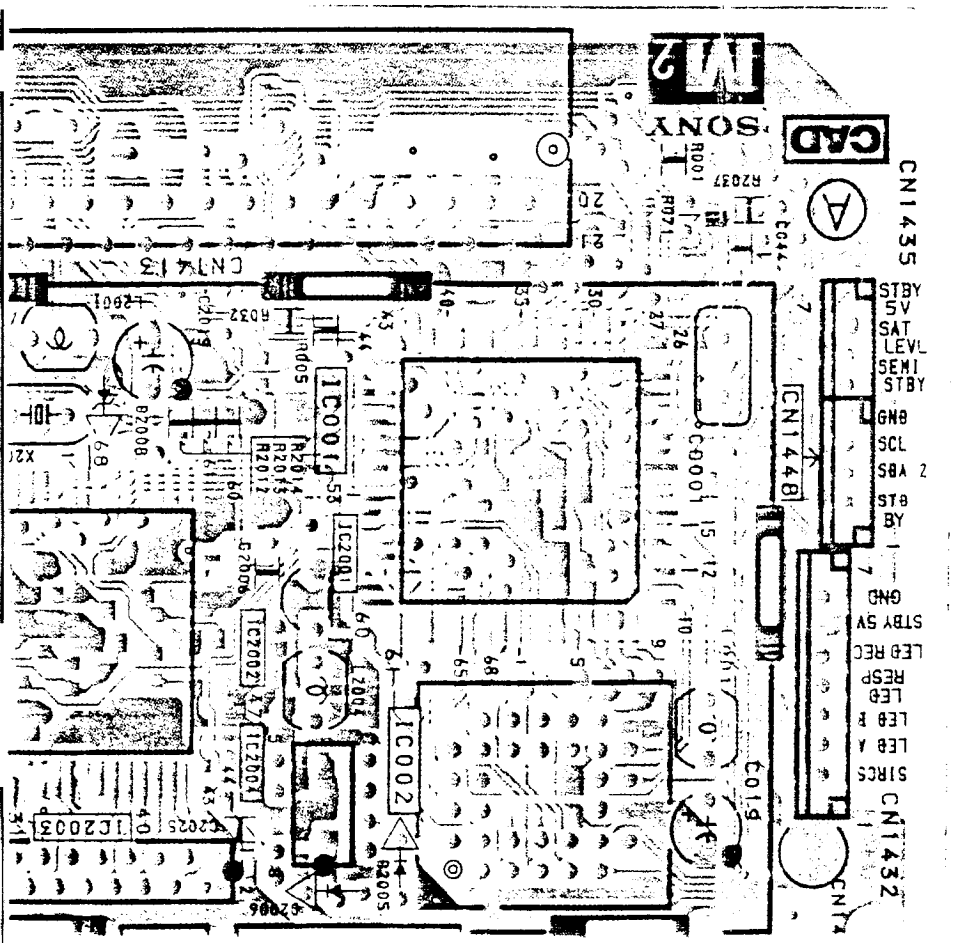
4 5 6 7 3



IC	
IC001	C-3
IC002	B-3, J-3
IC561	C-8
IC562	B-8
IC563	D-7, H-7
IC2001	C-4, I-4
IC2002	C-6
IC2003	B-5, J-6
IC2004	A-4, J-4

TRANSISTOR	
Q002	G-2
Q003	I-3
Q564	H-7
Q565	I-8
Q566	J-7
Q567	J-8
Q2001	I-5
Q2002	J-5
Q2003	I-6
Q2005	H-5
Q2006	K-5
Q2008	I-6

DIODE	
D001	G-2
D2001	I-5
D2002	J-5
D2003	I-6

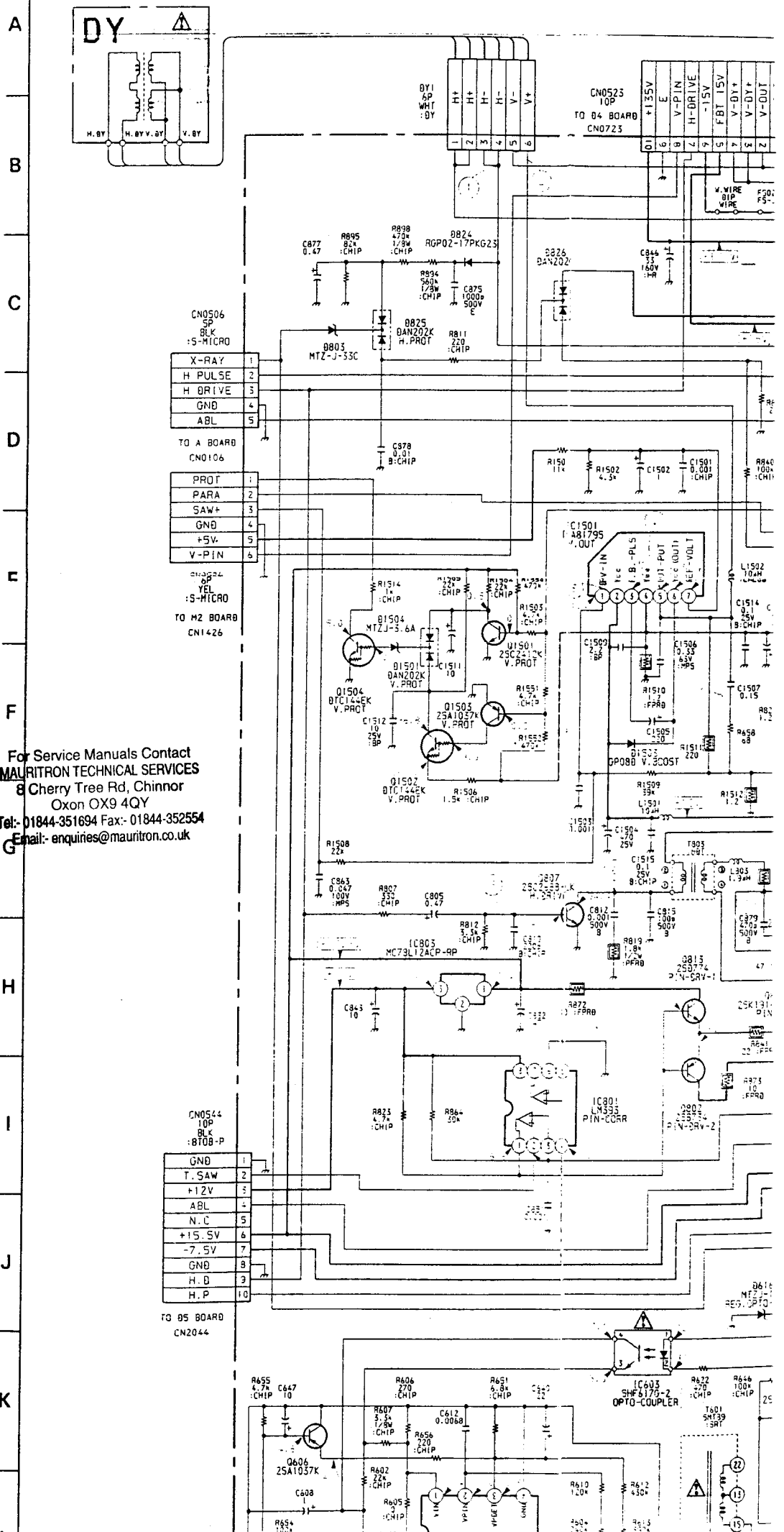


IC	
IC001	C-3
IC002	B-3, J-3
IC561	C-8
IC562	B-8
IC563	D-7, H-7
IC2001	C-4, I-4
IC2002	C-6
IC2003	B-5, J-6
IC2004	A-4, J-4

TRANSISTOR	
Q002	G-2
Q003	I-3
Q564	H-7
Q565	I-8
Q566	J-7
Q567	J-8
Q2001	I-5
Q2002	J-5
Q2003	I-6
Q2005	H-5
Q2006	K-5
Q2008	I-6

DIODE	
D001	G-2
D2001	I-5
D2002	J-5
D2003	I-6

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TO A BOARD
CN0106

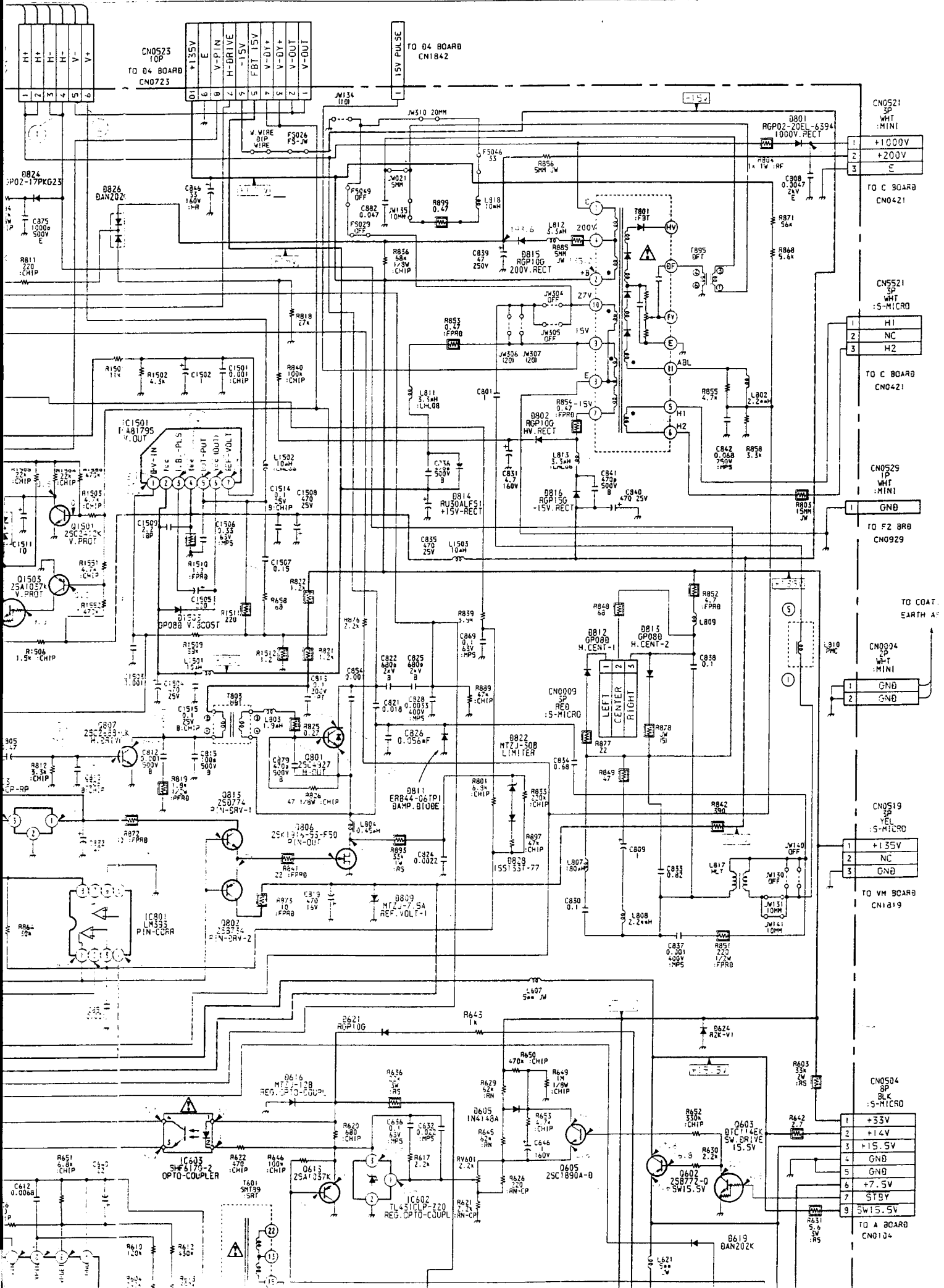
X-RAY	1
H PULSE	2
H DRIVE	3
GND	4
ABL	5

TO M2 BOARD
CN1426

PROT	1
PARA	2
SAW+	3
GND	4
+5V	5
V-PIN	6

TO B5 BOARD
CN2044

GND	1
T. SAW	2
+1.2V	3
ABL	4
N. C	5
+1.5V	6
-7.5V	7
GND	8
H. D	9
H. P	10



TO 04 BOARD
CN0723

1	H+
2	H+
3	H+
4	H+
5	V+
6	V+

TO 04 BOARD
CN0723

01	+135V
02	E
03	V-PIN
04	H-DRIVE
05	-15V
06	FBI 15V
07	V-DI+
08	V-DI+
09	V-OUT
10	V-OUT

TO C BOARD
CN0421

1	+1000V
2	+200V
3	E

TO C BOARD
CN0421

1	H1
2	NC
3	H2

TO F2 BRB
CN0929

1	GND
---	-----

TO COAT.
EARTH AS

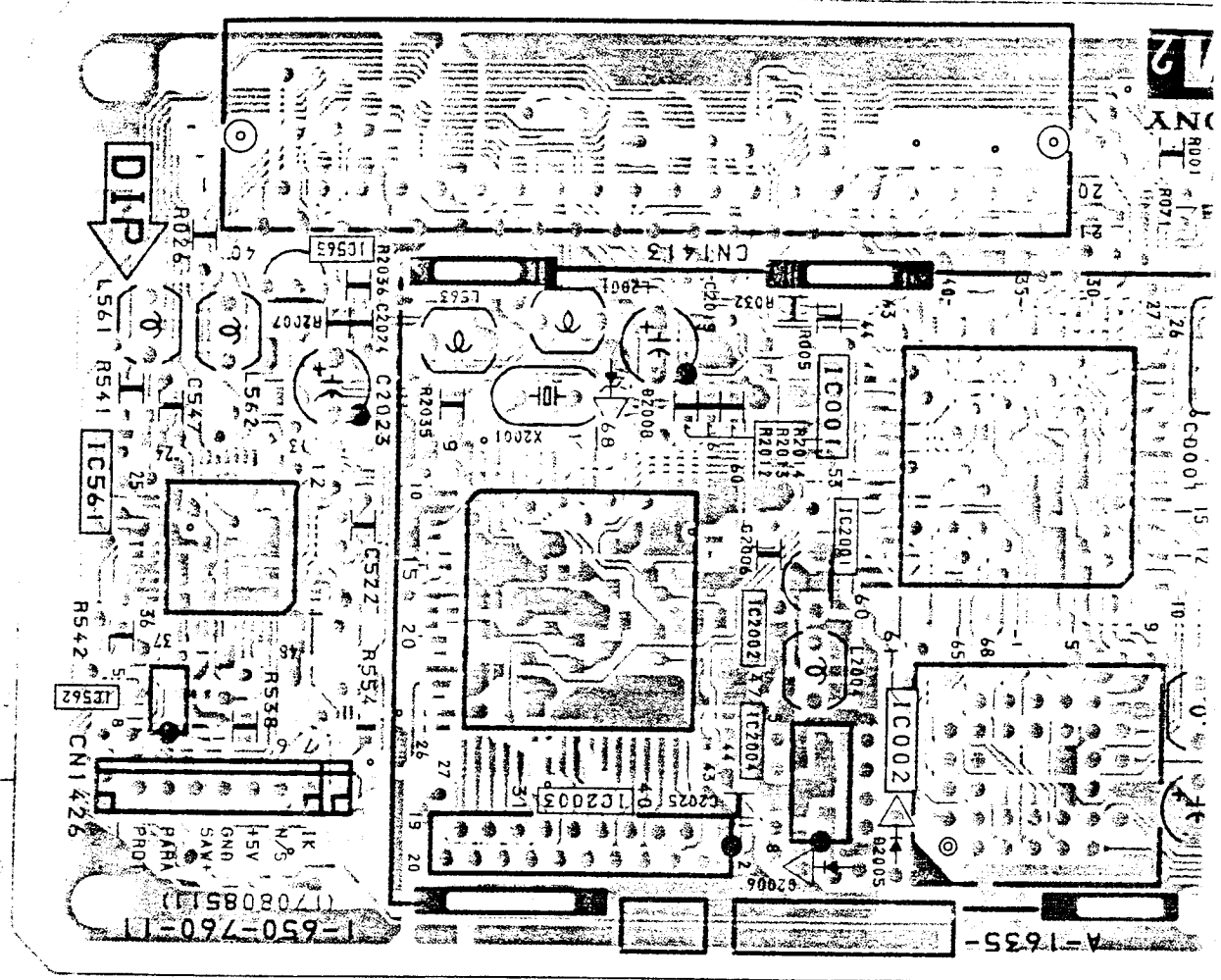
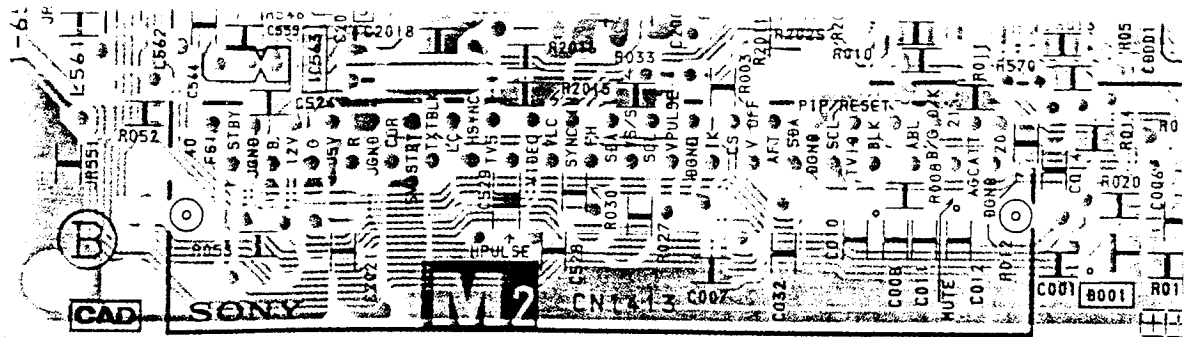
1	GND
2	GND

TO VM BOARD
CN1819

1	+135V
2	NC
3	GND

TO A BOARD
CN0104

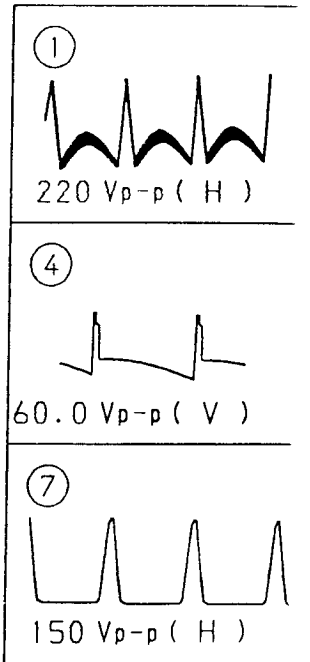
1	+35V
2	+14V
3	+15.5V
4	GND
5	GND
6	+7.5V
7	5T9V
8	5W15.5V



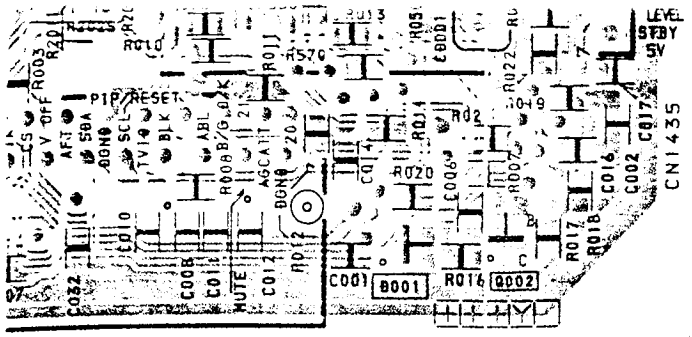
Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

• WAVEFORMS D BOX



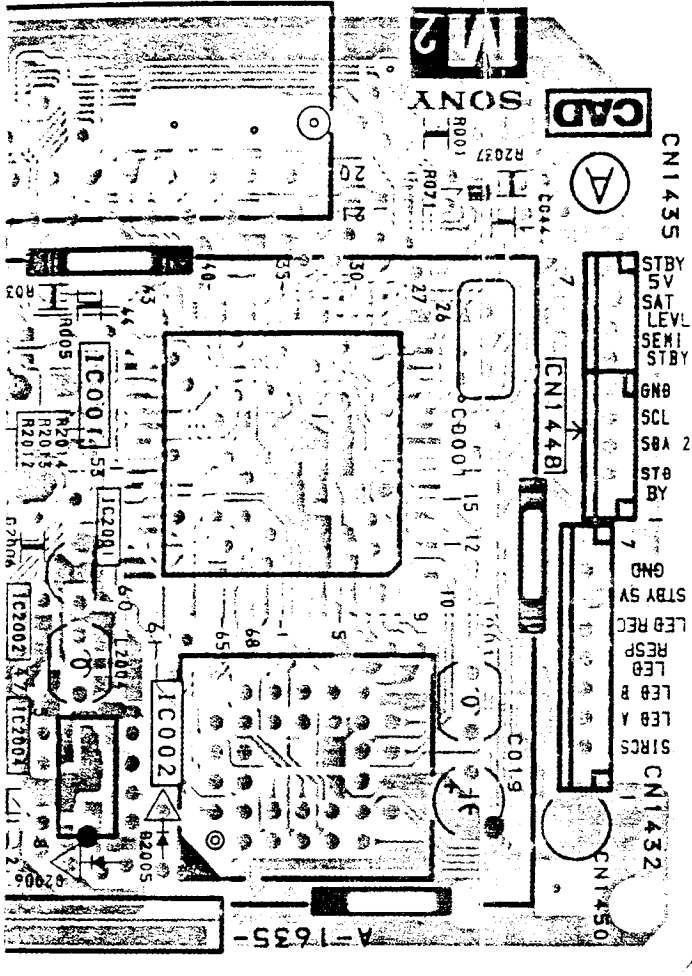
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Q567	J-8
Q2001	I-5
Q2002	J-5
Q2003	I-6
Q2005	H-5
Q2006	K-5
Q2008	I-6

DIODE

D001	G-2
D2001	I-5
D2002	J-5
D2003	I-6



D001	G-2
D2001	I-5
D2002	J-5
D2003	I-6

TO M2 BOARD
CN1426

CN0544
10P
BLK
:BT0B-P

GND	1
T. SAW	2
+12V	3
ABL	4
N.C	5
+15.5V	6
-7.5V	7
GND	8
H.D	9
H.P	10

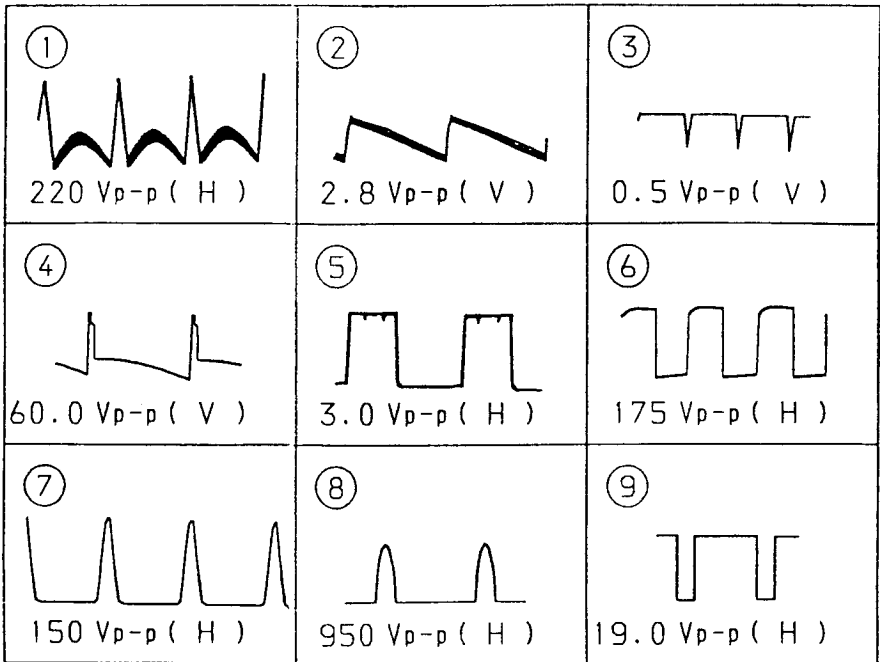
TO 05 BOARD
CN2044

CN0525
6P
WHT
:VH

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

TO F2 BOARD
CN0925

• WAVEFORMS D BOARD



F
G
H
I
J
K
L
M
N
O

TO M2 BOARD
CN1426

GN544	10P
BLK	:B70B-P
1	GN544
2	T. SAW
3	+12V
4	ABL
5	N.C
6	+15.5V
7	-7.5V
8	GN544
9	H.D
10	H.P

TO B5 BOARD
CN2044

GN525	6P
WHT	:VH
1	AC IN
2	NC
3	NC
4	+300V
5	NC
6	PRIM. GND

TO F2 BOARD
CN0925

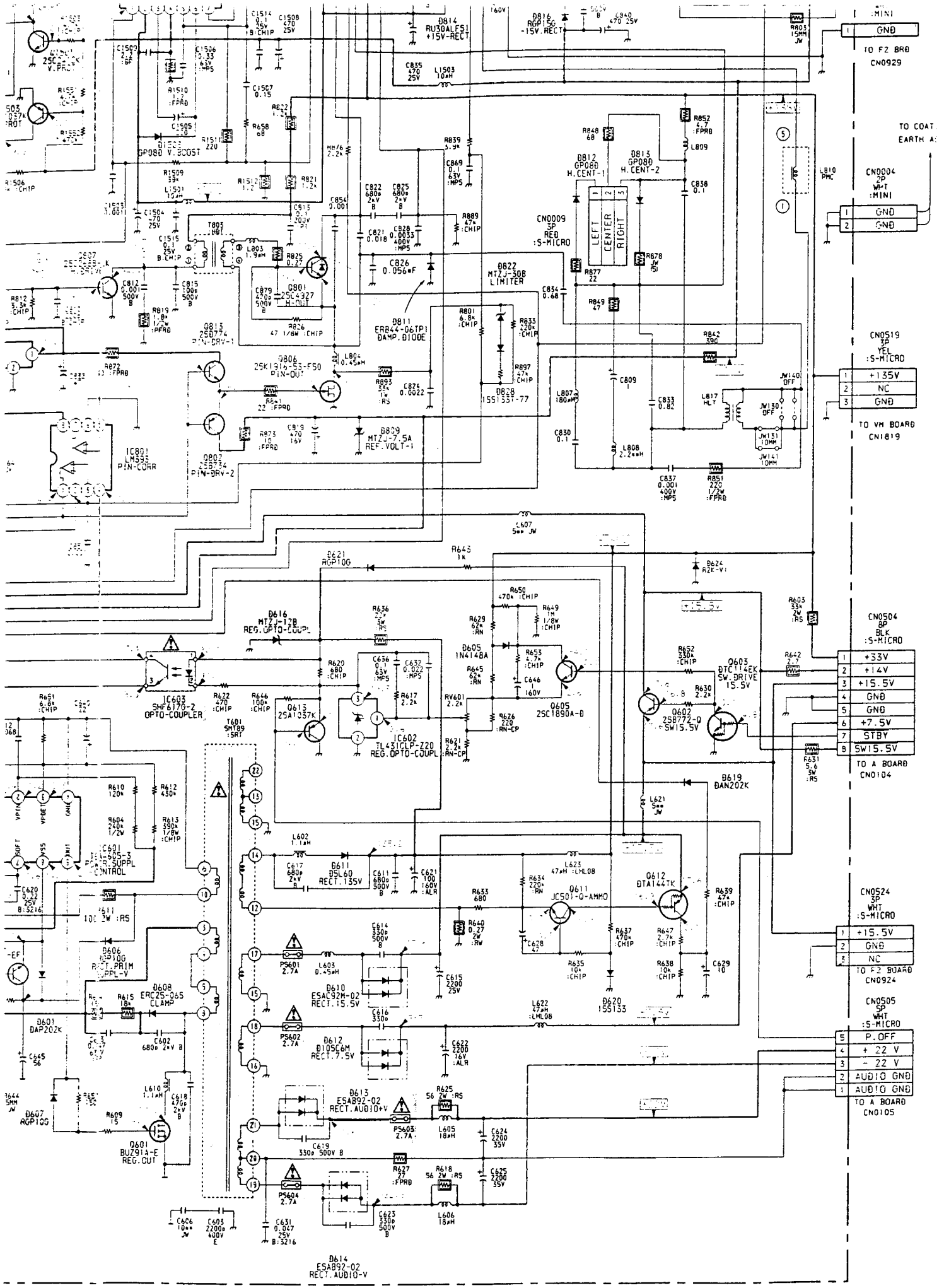
D HV OUT
PIN OUT
POWER SUPPLY

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B-SSAE2A<X/7-B...-29

D614
ESAB92-02
RECT. AUDIO-V



- MINI
- 1 GND
- TO F2 BRD
- CN0929

- TO COAT
- EARTH A:

- 1 GND
- 2 GND
- CN0004
- 2P
- WHT
- :MINI

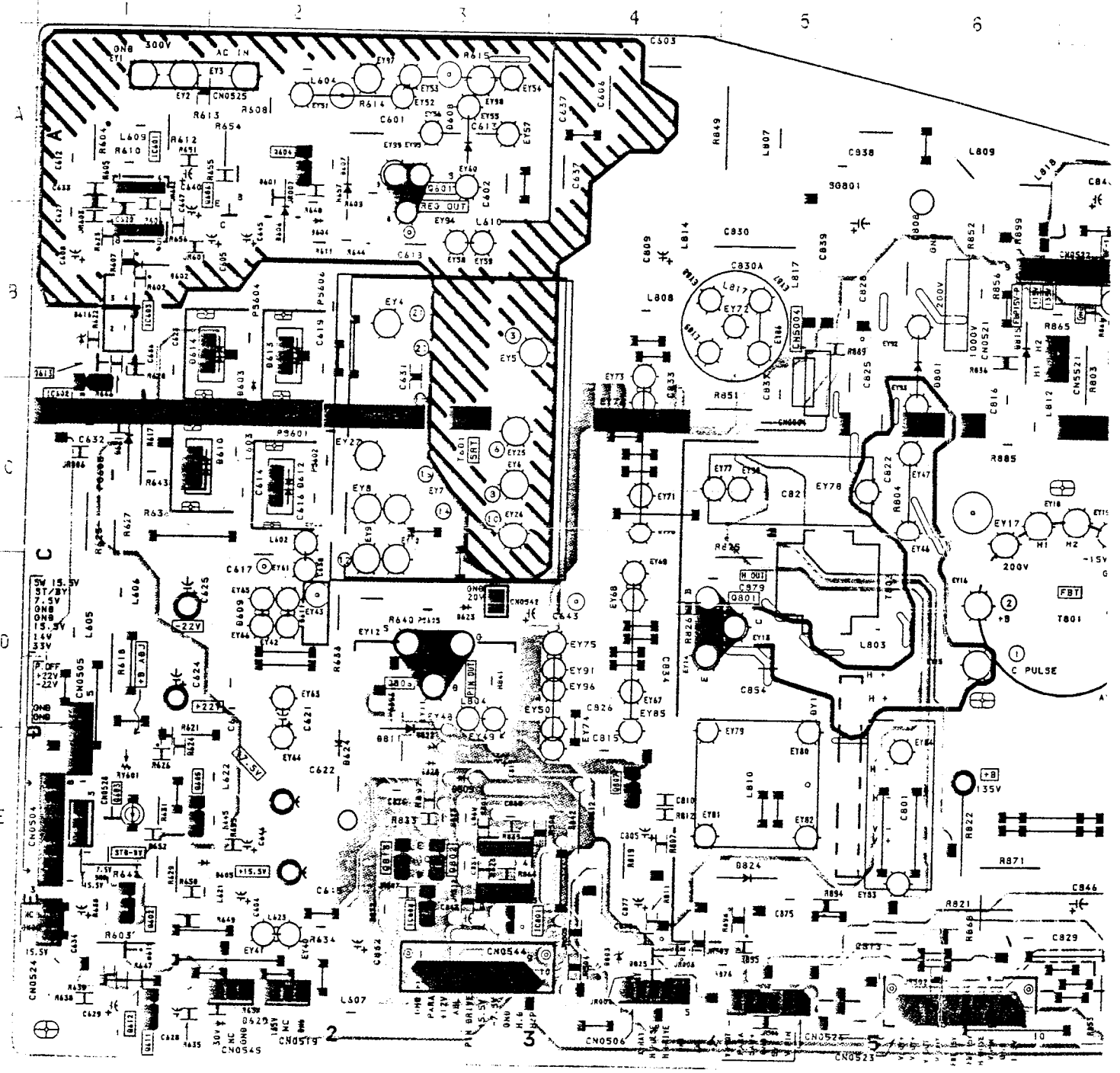
- 1 +1.35V
- 2 NC
- 3 GND
- TO VH BOARD
- CN1819

- 1 +33V
- 2 +14V
- 3 +15.5V
- 4 GND
- 5 GND
- 6 +7.5V
- 7 STBY
- 8 SW15.5V
- TO A BOARD
- CN0104

- 1 +15.5V
- 2 GND
- 3 NC
- TO F2 BOARD
- CN0924

- 1 +15.5V
- 2 GND
- 3 -22V
- 4 +22V
- 5 P.OFF
- 6 -22V
- 7 AUDIO GND
- 8 AUDIO GND
- TO A BOARD
- CN0105

- D BOARD -



NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

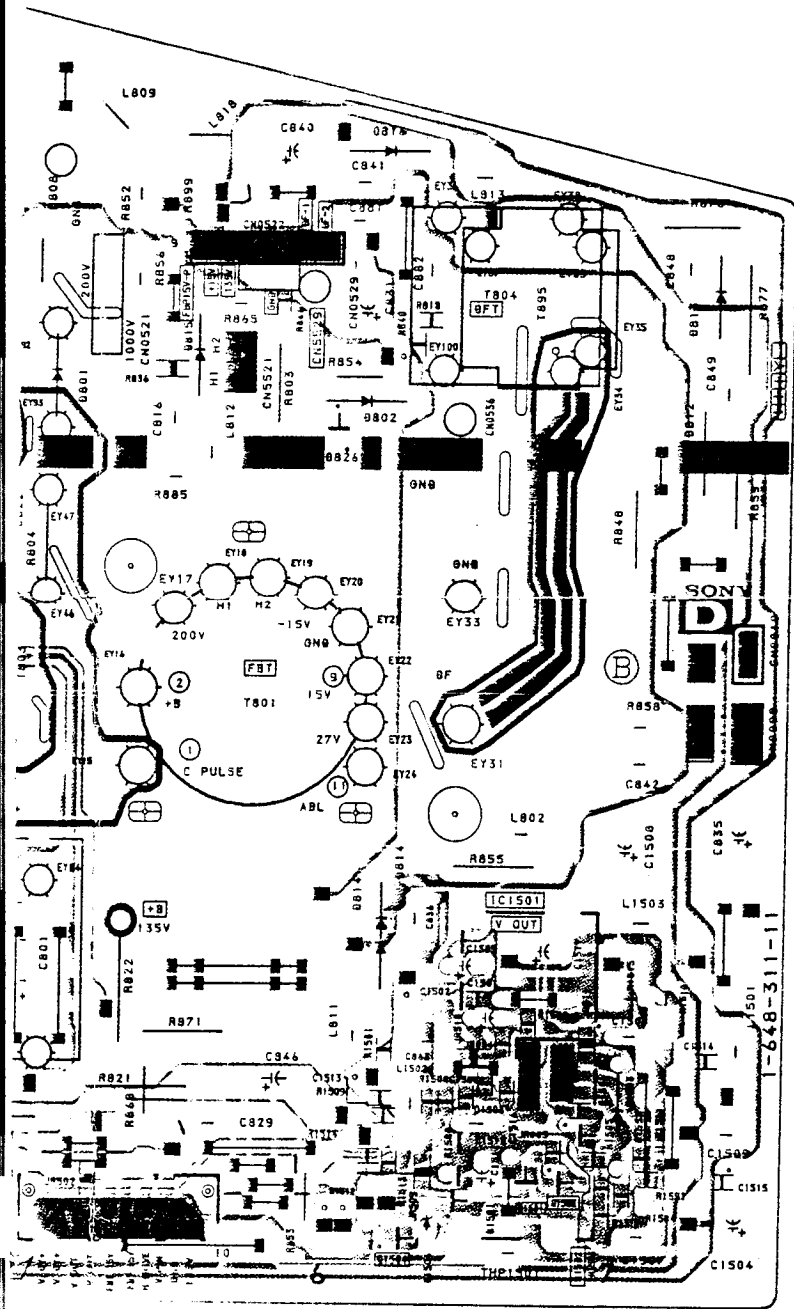
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IC
 IC
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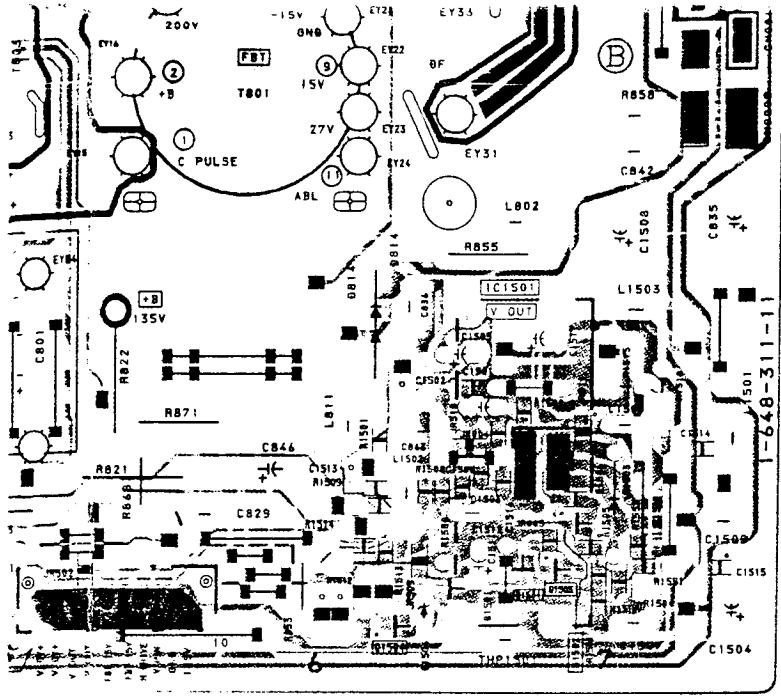
Note:

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

6 7 8 9



IC	D607	A-2
IC601	D608	A-3
A-1	D610	C-2
IC602	D611	D-2
C-1	D612	C-2
IC603	D613	B-2
B-1	D614	B-2
IC801	D616	B-1
E-3	D619	F-1
IC803	D620	F-2
F-3	D621	C-1
IC1501	D624	E-2
E-8	D801	B-6
TRANSISTOR	D802	B-7
Q601	D803	F-4
A-3	D809	E-3
Q602		
F-1		
Q603		
E-1		
Q604		
A-2		
Q605		
E-2		



IC		D607	A - 2
		D608	A - 3
IC601	A - 1	D610	C - 2
IC602	C - 1	D611	D - 2
IC603	B - 1	D612	C - 2
IC801	E - 3	D613	B - 2
IC803	F - 3	D614	B - 2
IC1501	E - 8	D616	B - 1
		D619	F - 1
		D620	F - 2
		D621	C - 1
		D624	E - 2
TRANSISTOR		D801	B - 6
Q601	A - 3	D802	B - 7
Q602	F - 1	D803	F - 4
Q603	E - 1	D809	E - 3
Q604	A - 2	D811	D - 3
Q605	E - 2	D812	C - 9
Q606	B - 2	D813	B - 9
Q611	F - 1	D814	E - 7
Q612	F - 1	D815	B - 6
Q613	B - 1	D816	A - 7
Q801	D - 5	D822	E - 3
Q802	E - 3	D824	E - 5
Q806	D - 3	D825	F - 4
Q807	E - 4	D826	C - 7
Q813	E - 3	D828	E - 3
Q1501	F - 8	D1501	F - 8
Q1502	F - 8	D1503	F - 8
Q1503	F - 8	D1504	F - 7
Q1504	F - 7		
DIODE			
D601	A - 2	VARIABLE RESISTOR	
D602	B - 1		
D604	B - 2		
D605	E - 2	RV601	E - 1
D606	B - 2		

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(Spanish, UK

A

B

C

D

E

F

G

H

I

J

K

L

CN0201
20P
M1T
BT0B-P

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

TO A BOARD
CN0101

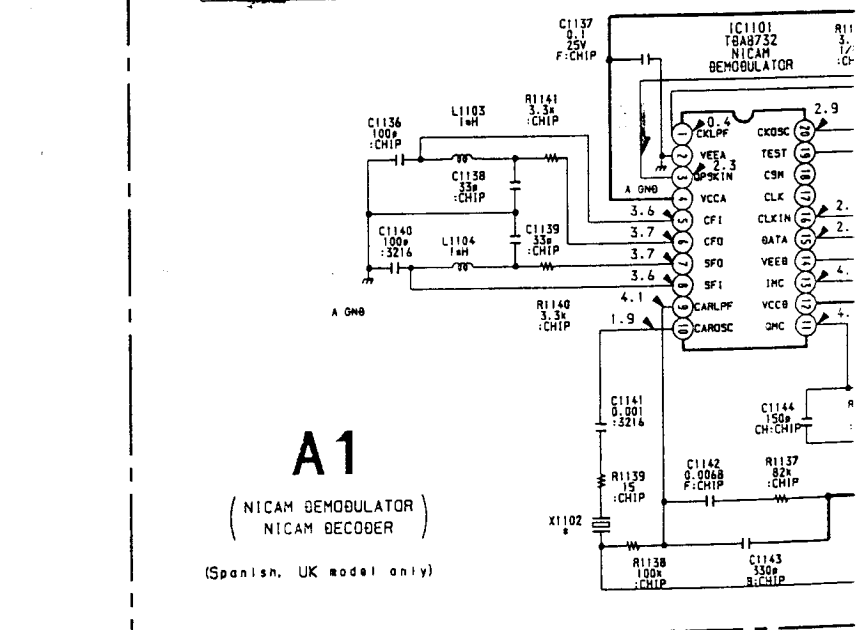
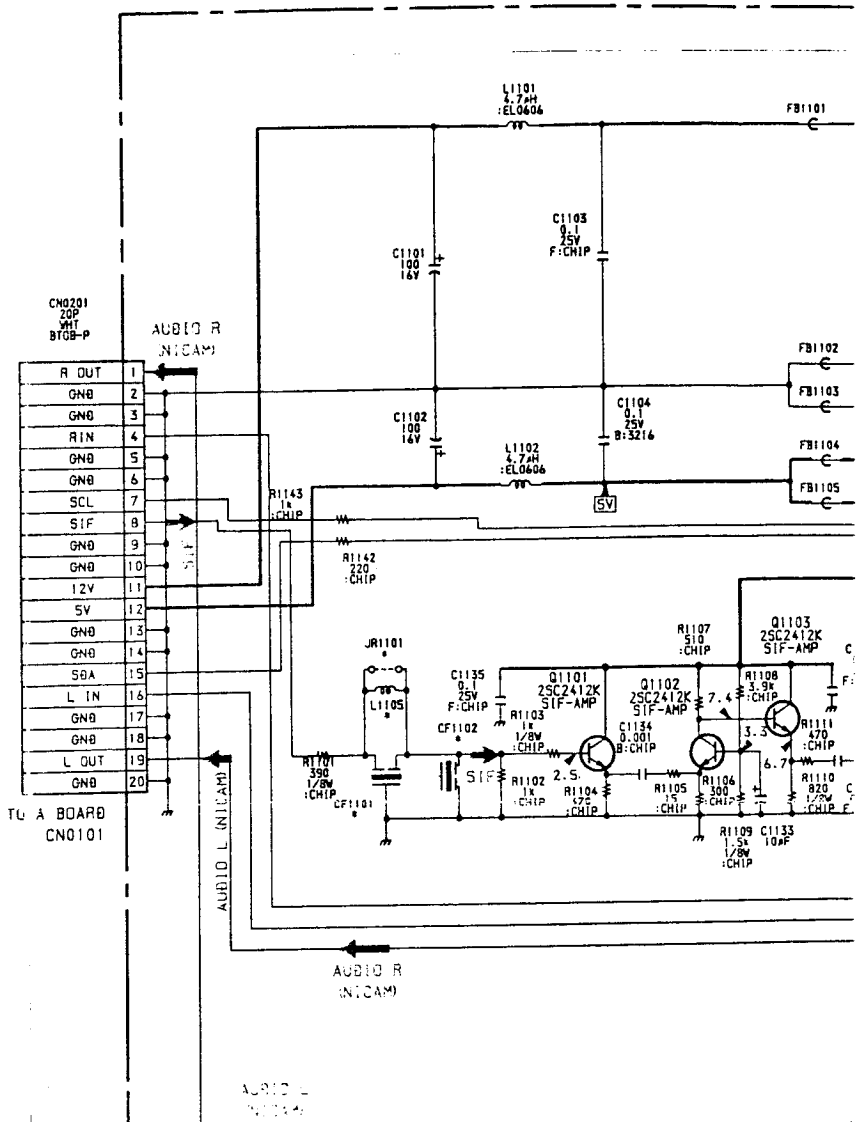
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TO B4 BOARD

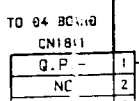
CN1801	
Q.P.	1
NC	2
	3

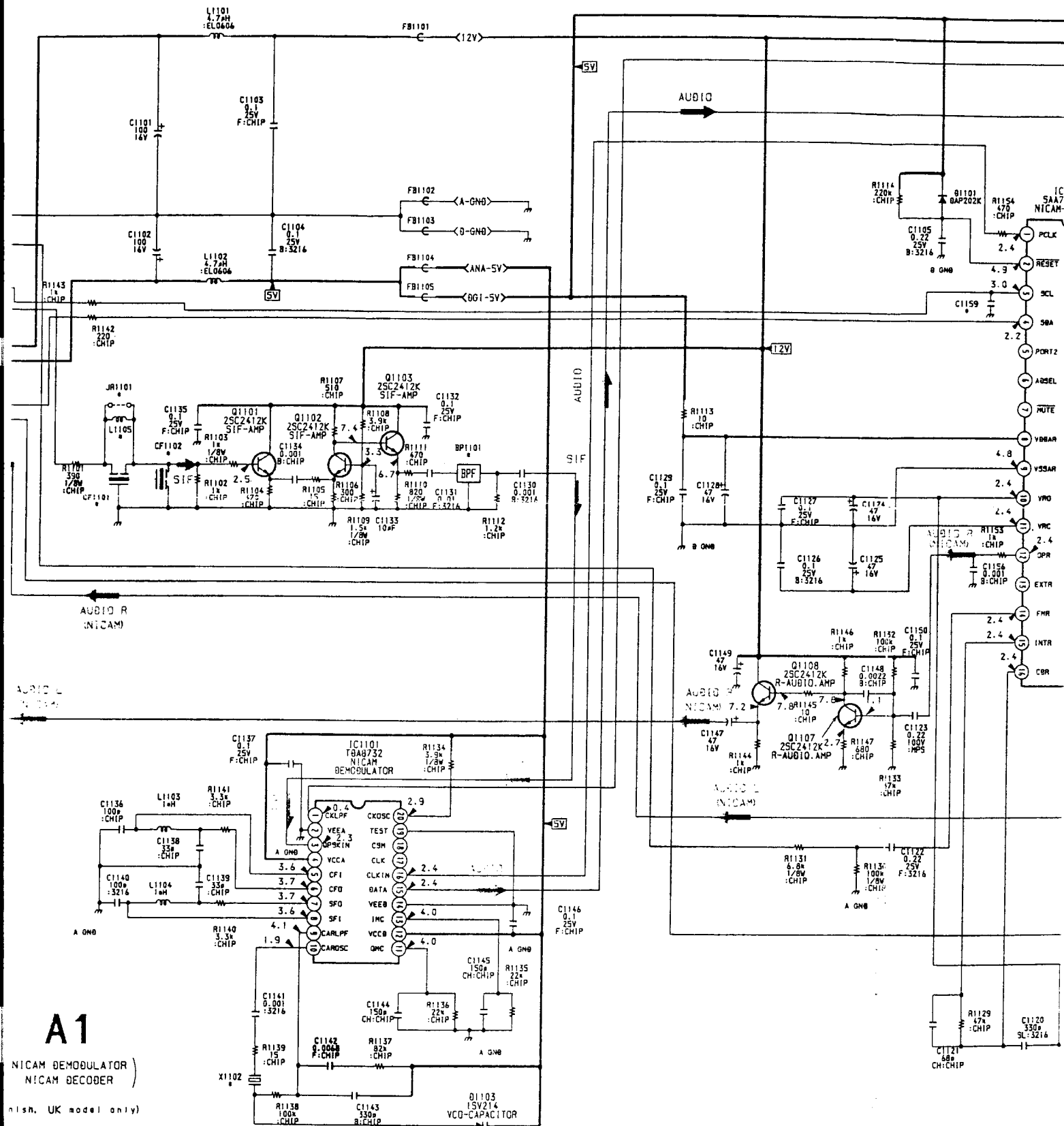
(Spanish, UK Model only)

A
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A1
(NICAM DEMODULATOR)
(NICAM DECODER)
(Spanish, UK model only)

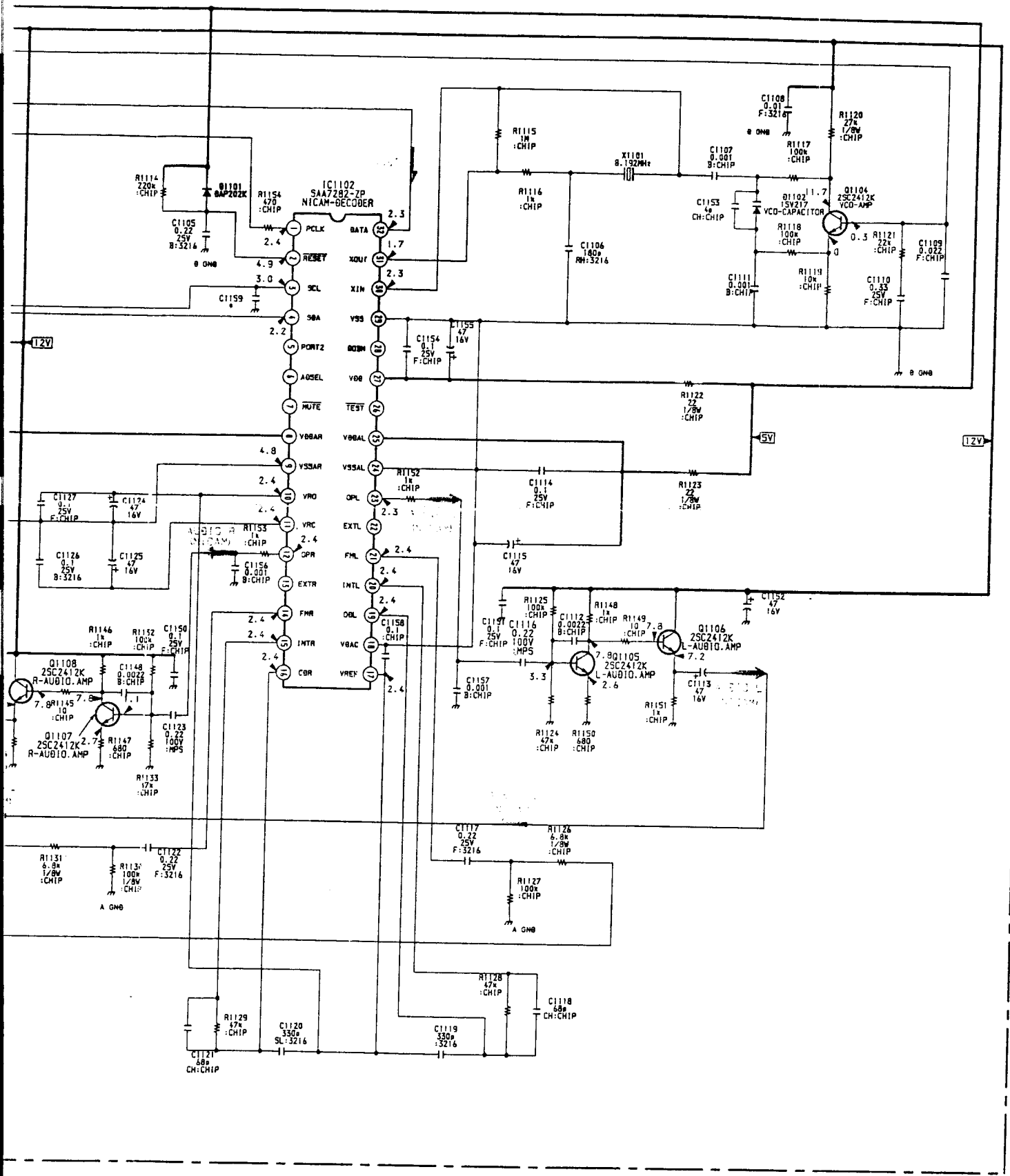




A1
NICAM DEMODULATOR)
NICAM DECODER)

(ish, UK model only)

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F

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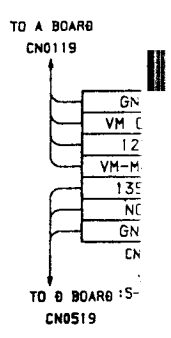
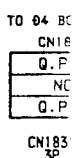
K

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O



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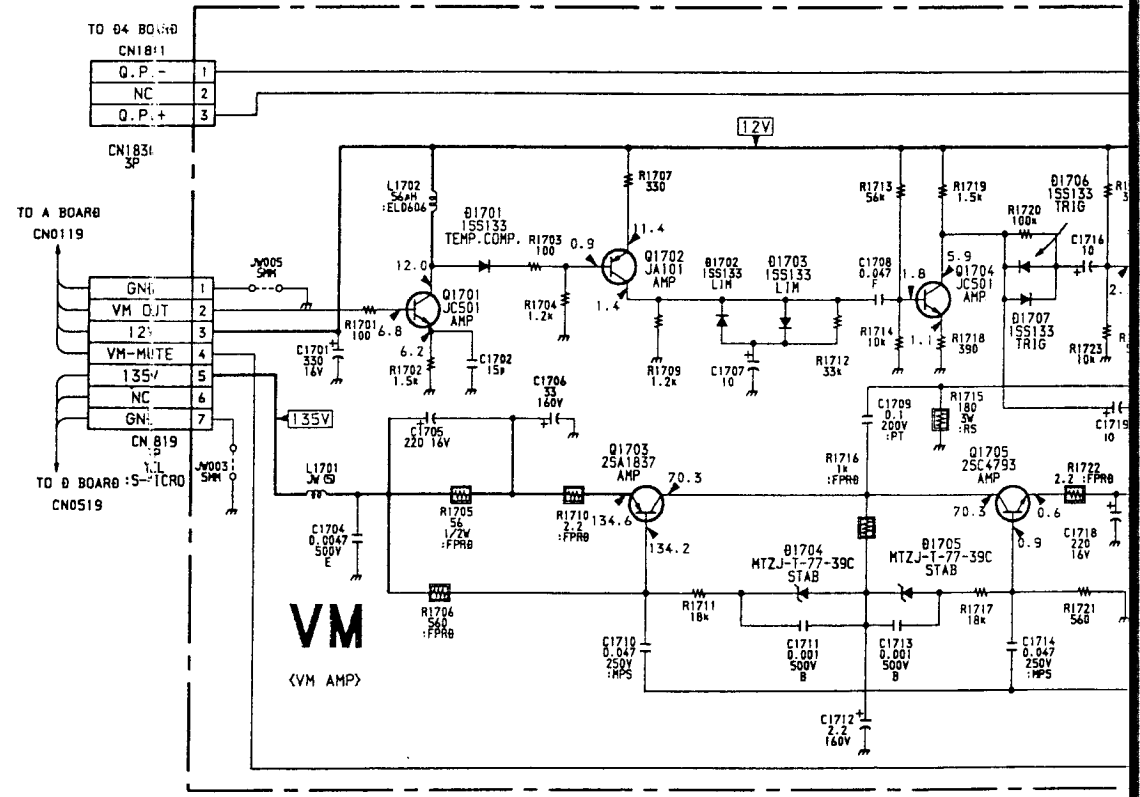
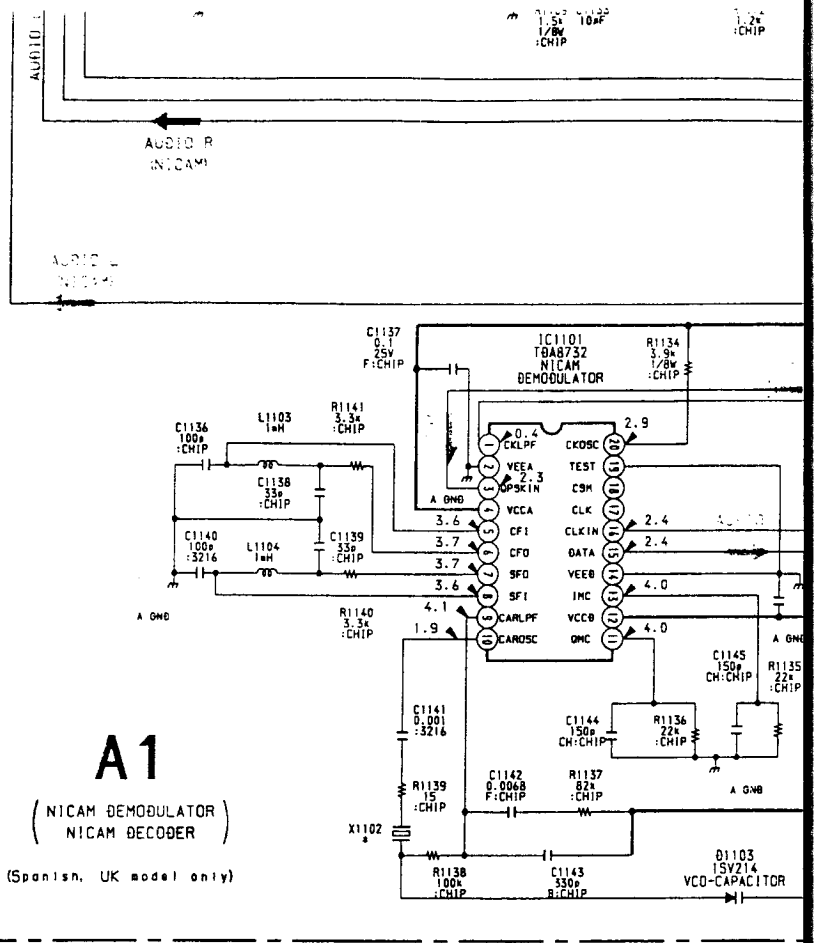
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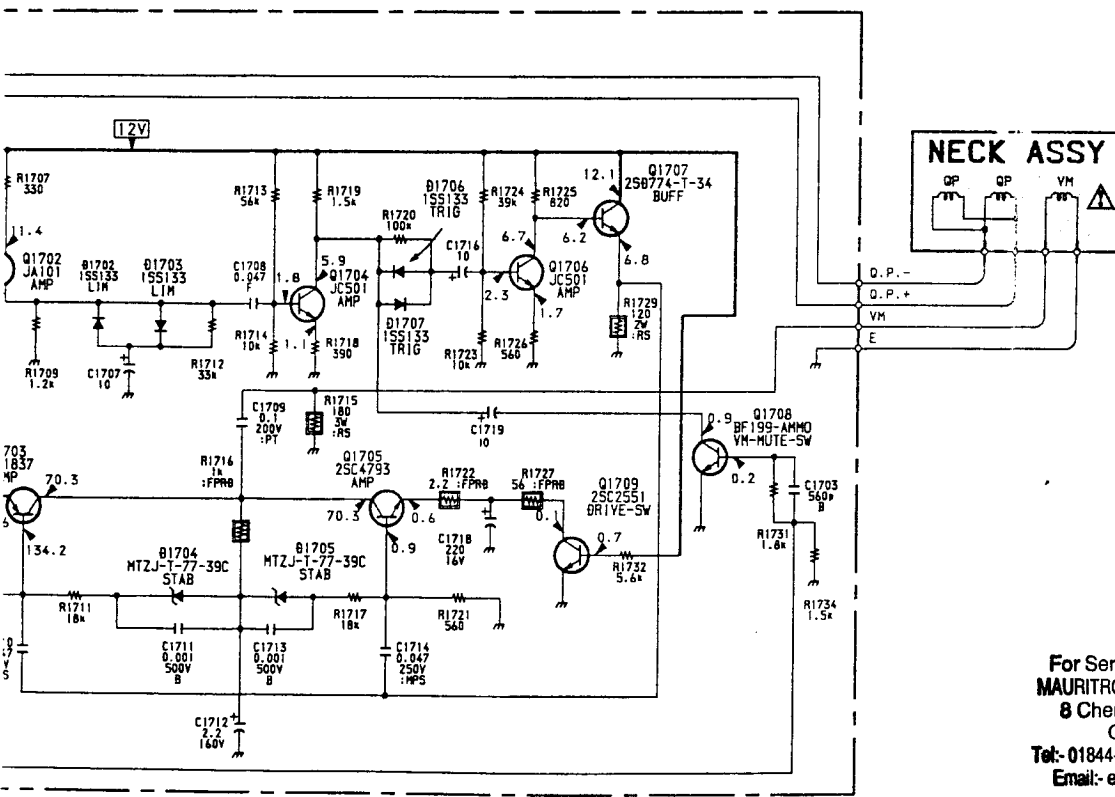
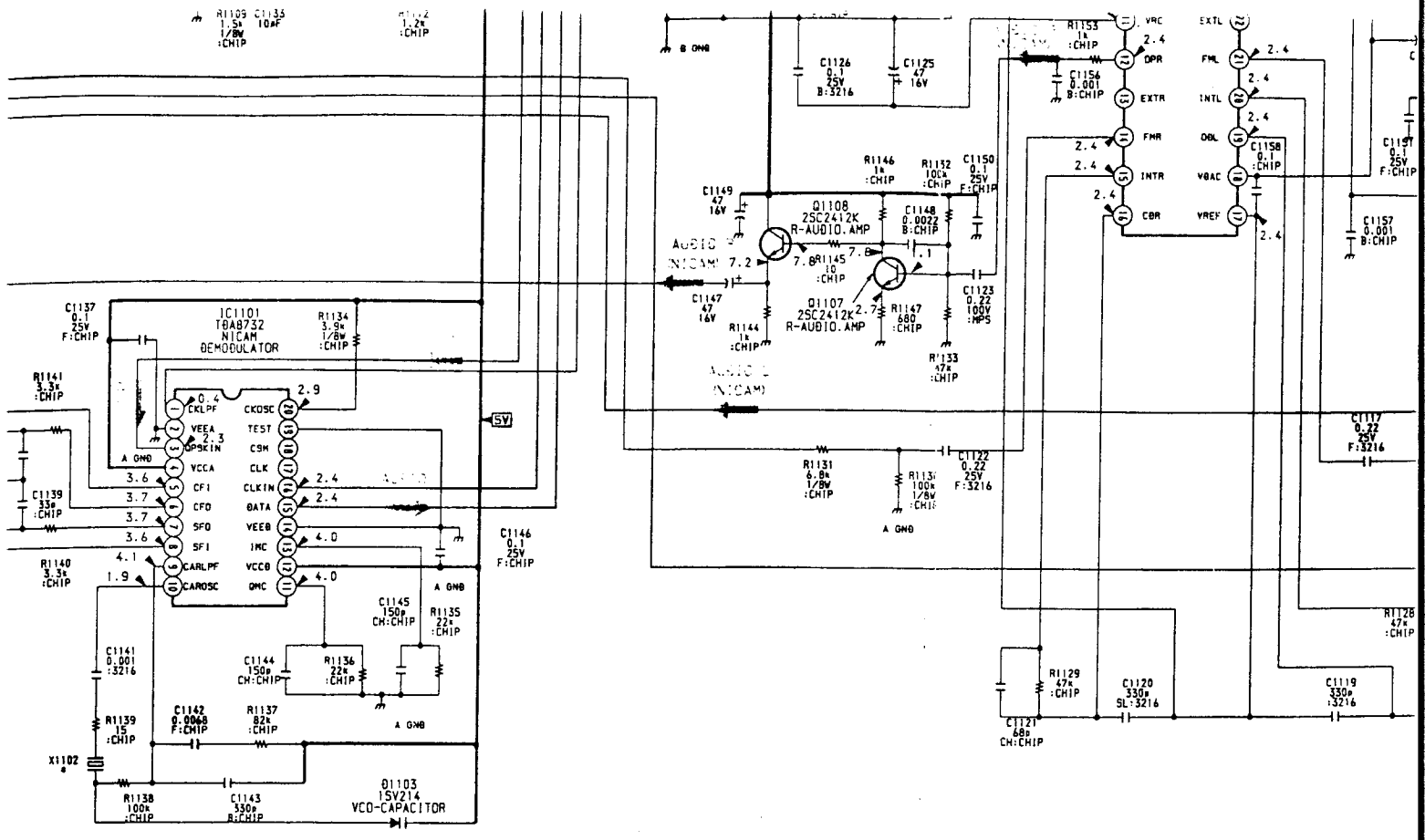
L

M

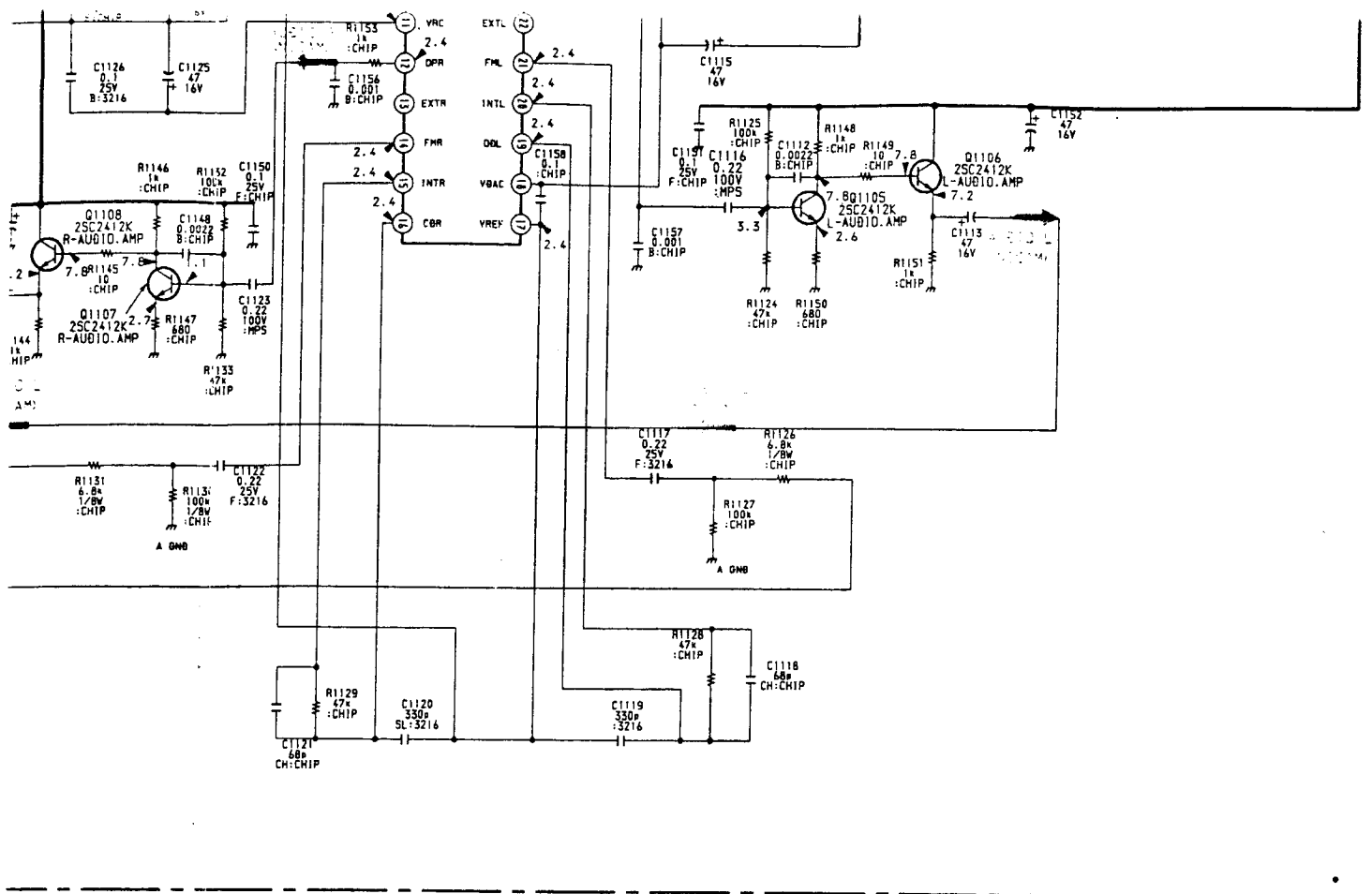
N

O

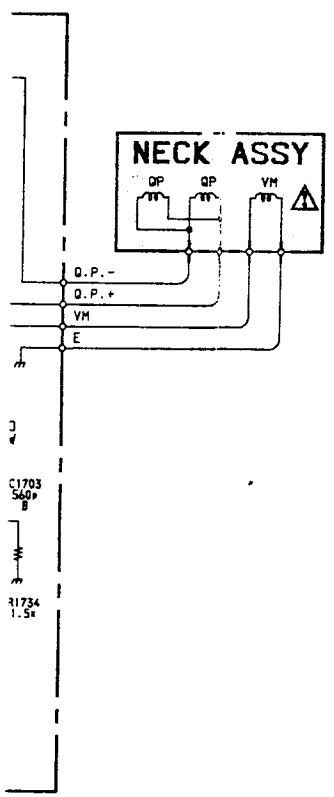




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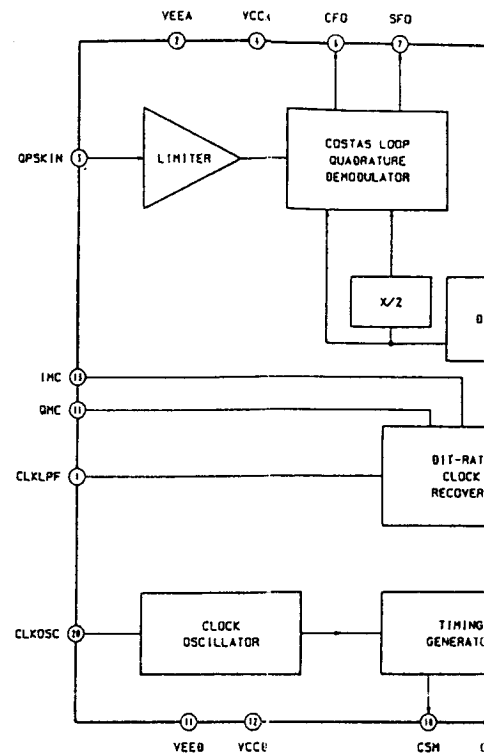
B-SS4536<AEP>-A1.



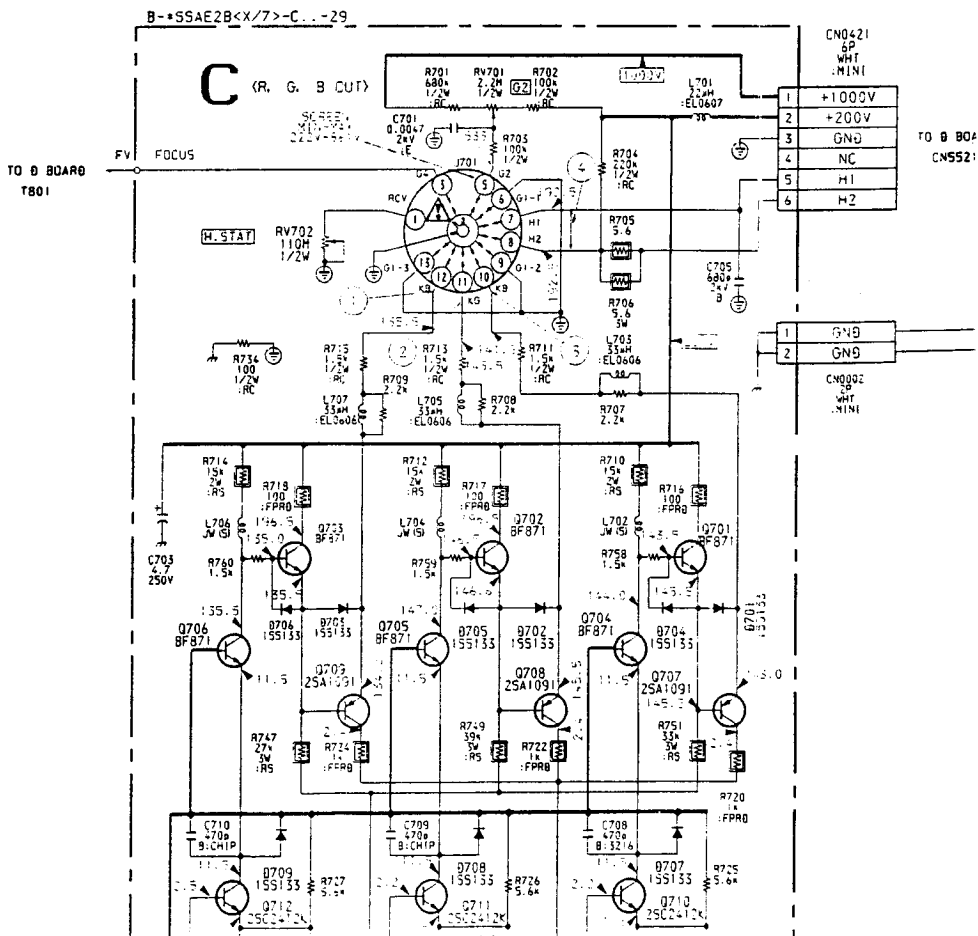
A1 BOARD * MARK

Model	KV-X2973E	KV-X2972U
BP1101	5.850MHz	6.552MHz
C1159	-	47P
CF1101	-	6.0MHz
CF1102	5.5MHz	-
JR1101	0 : CHIP	-
L1105	-	15MMh
X1102	11.700MHz	13.104MHz

* A1 BOARD IC:1101 TDA8732



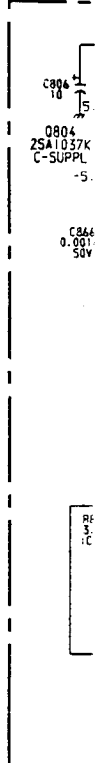
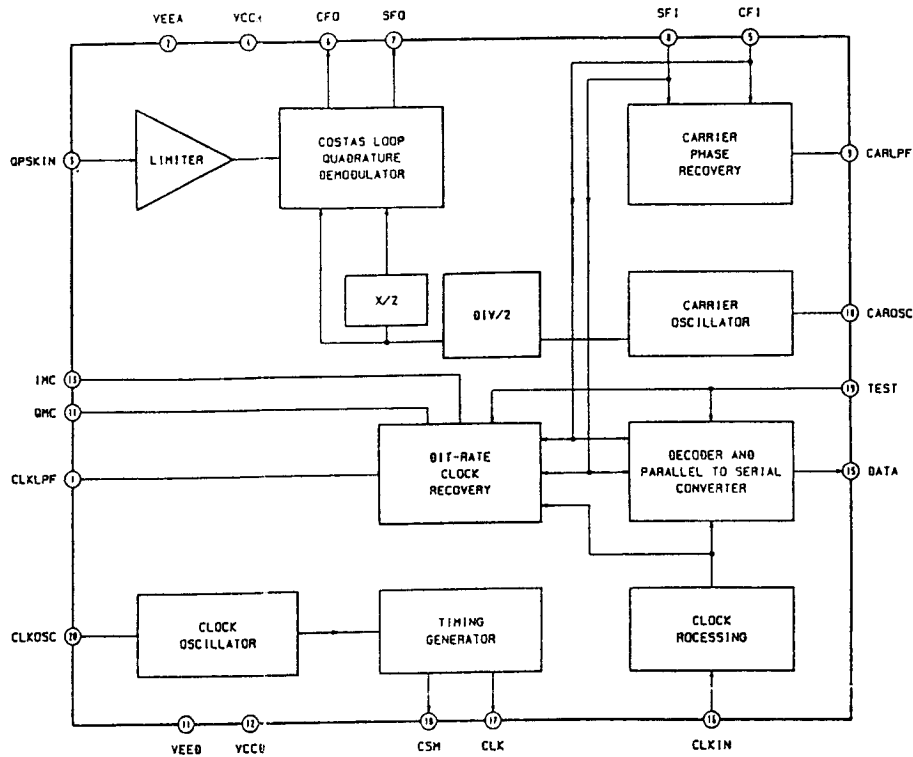
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ARD * MARK

Jel	KV-X2973E	KV-X2972U
	5.850MHz	6.552MHz
	-	47P
	-	6.0MHz
	5.5MHz	-
	0 : CHIP	-
	-	15MMh
	11.700MHz	13.104MHz

• A1 BOARD IC:101 TDA8732

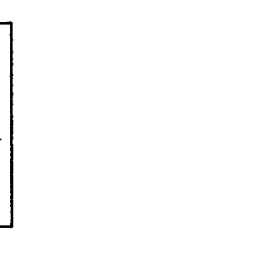
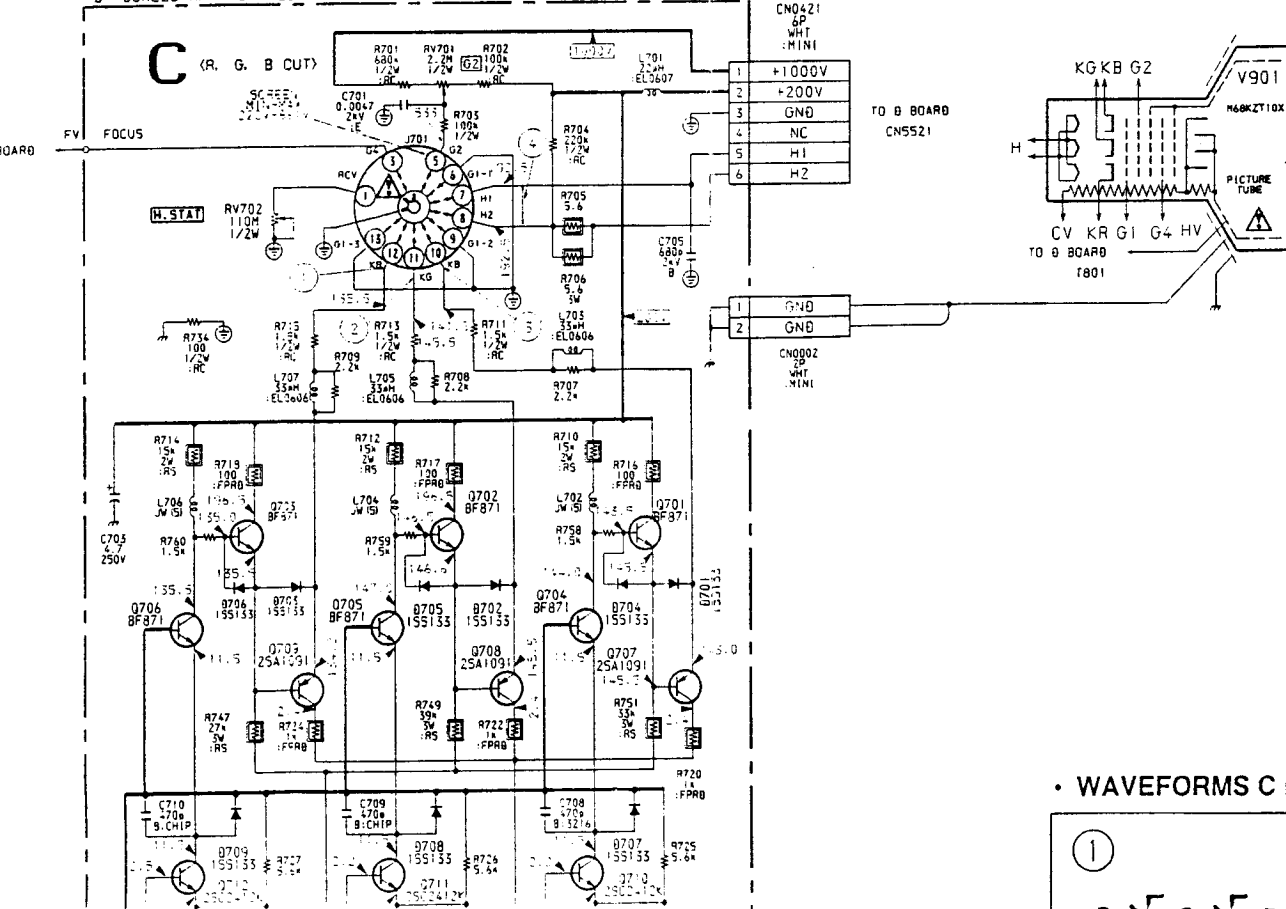


• WAV

①

8.5

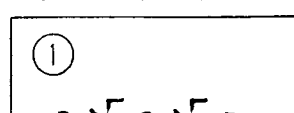
B-SSAE2B<X/7>-C...-29

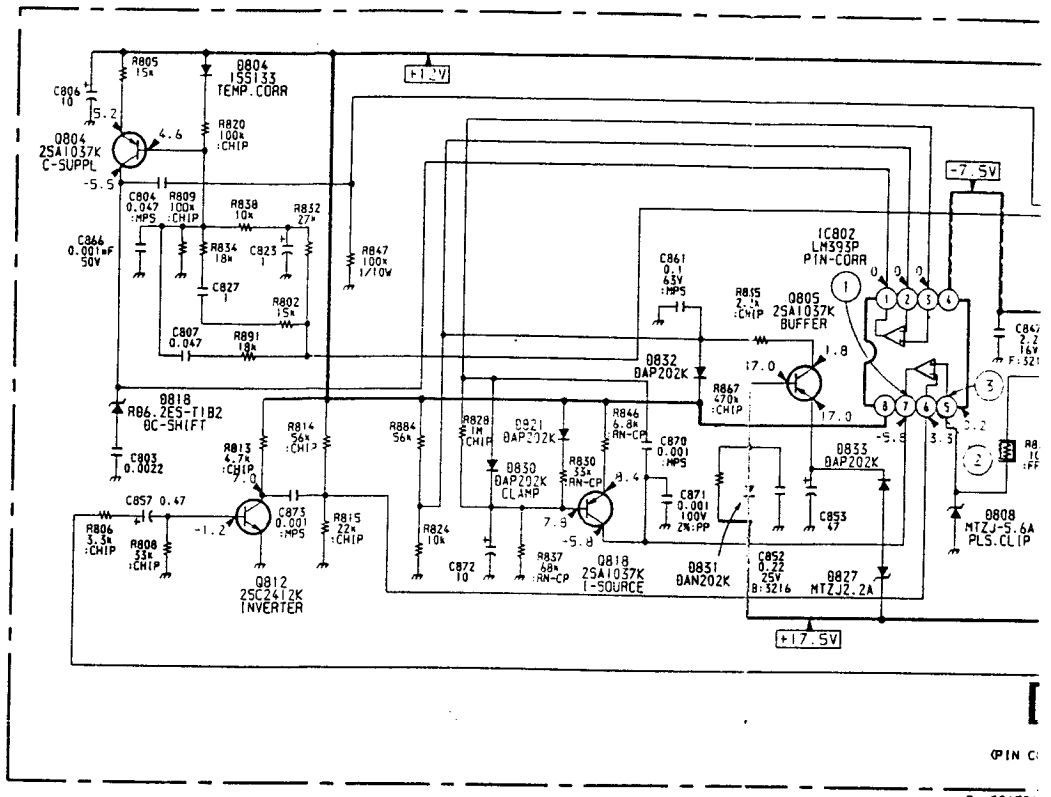
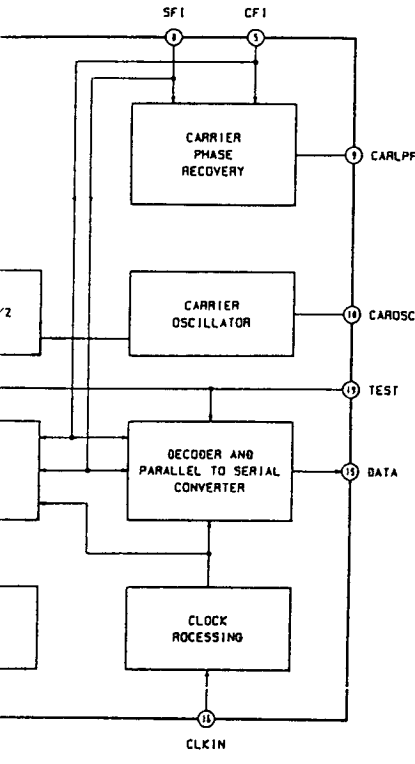


- 1 +1000V
 - 2 +200V
 - 3 GND
 - 4 NC
 - 5 H1
 - 6 H2
- TO B BOARD CN5521
- 1 GND
 - 2 GND
- TO B BOARD CN525

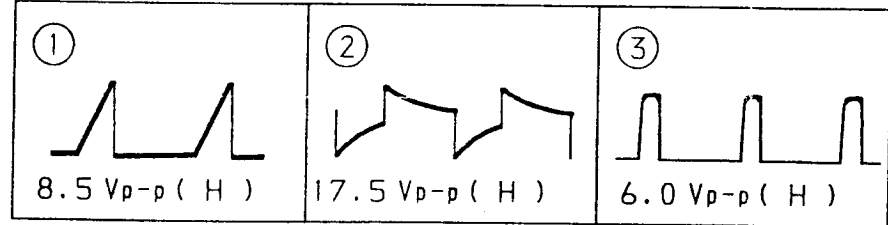
- CN1823 10P BLK :B708-5
 - VP-OUT+
 - VP-OUT+
 - VP-OUT-
 - VP-OUT-
 - FBI 12V
 - FBI -1E
 - H-DR LV
 - H-TPRZ
 - E
 - +135V
- TO B BOARD CN525

• WAVEFORMS C BOARD

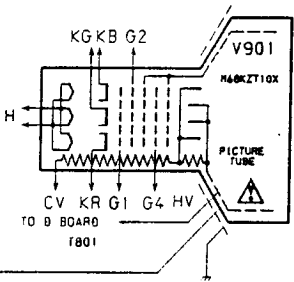




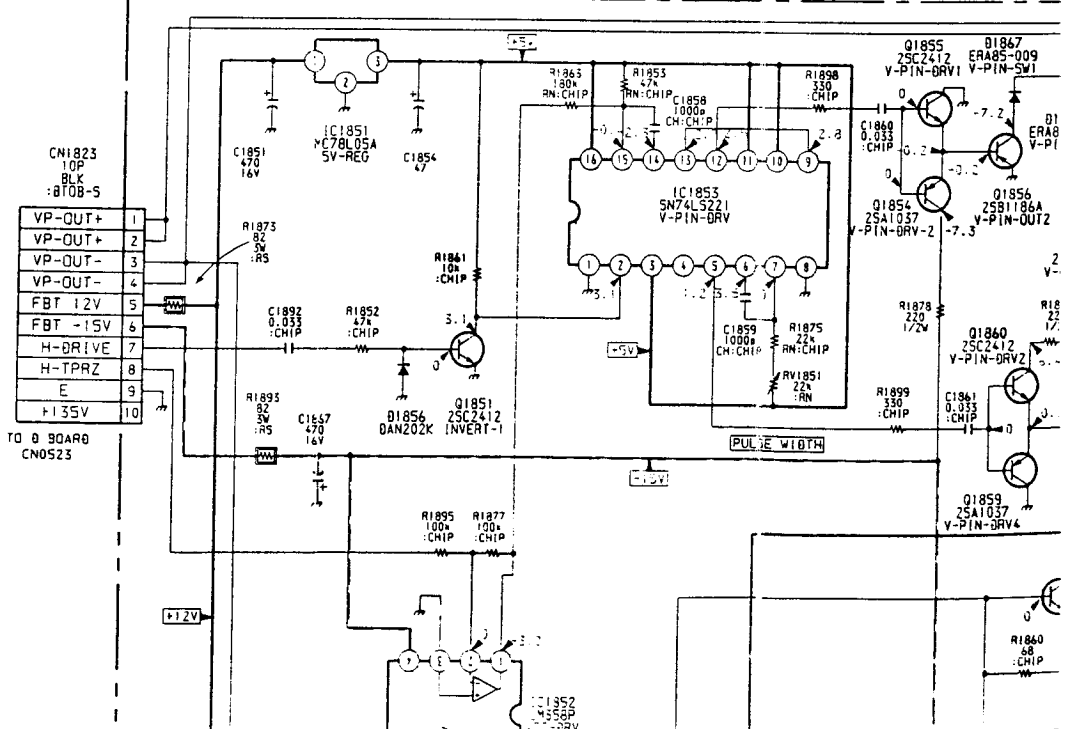
• WAVEFORMS D5 BOARD



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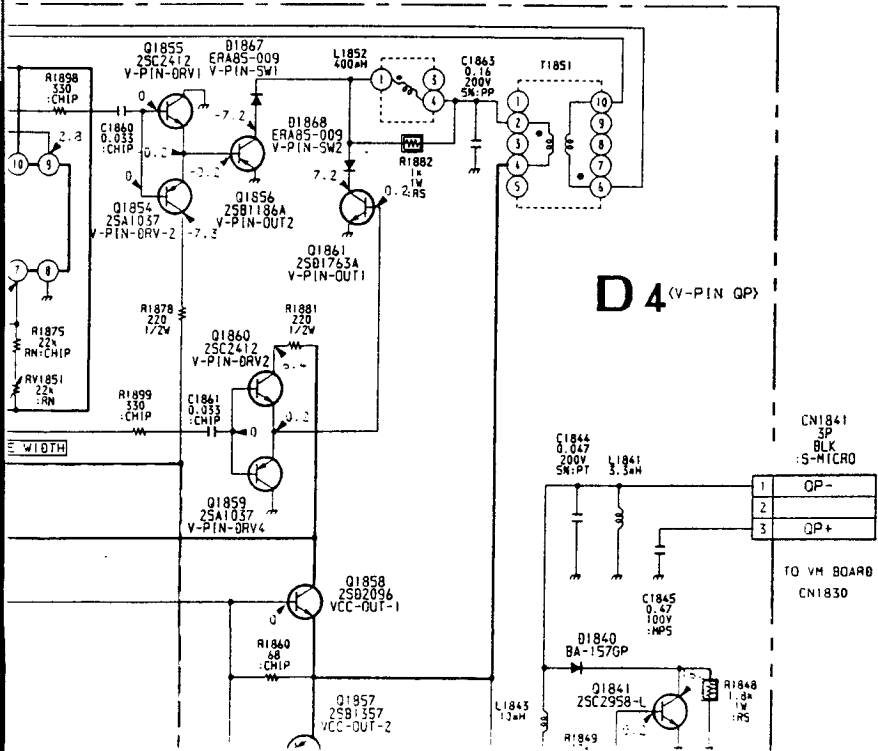
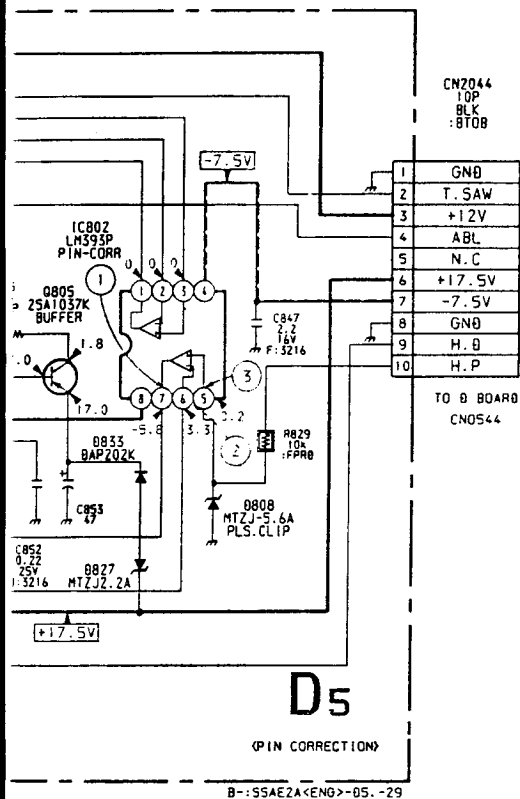


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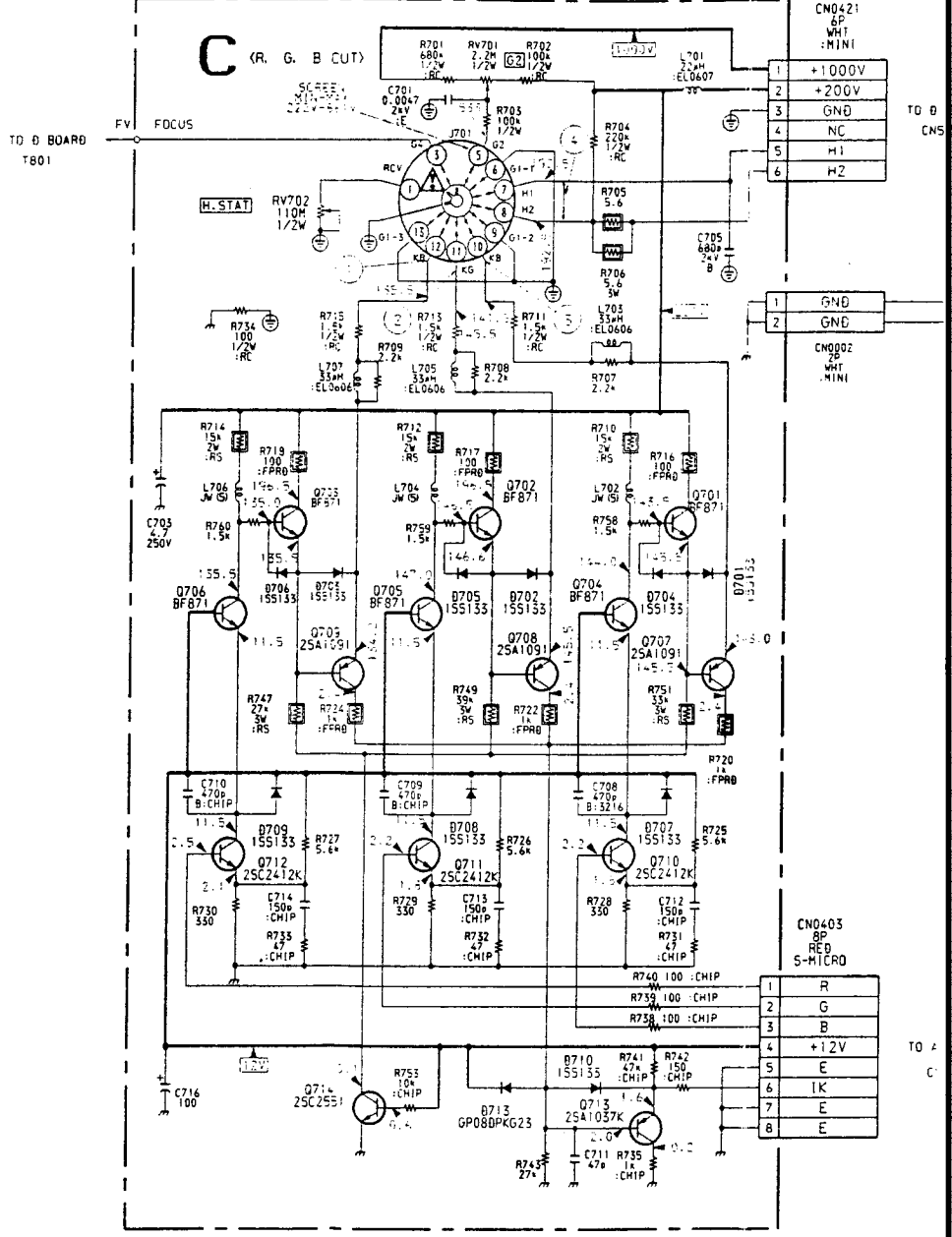


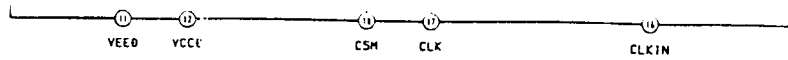
• WAVEFORMS C BOARD



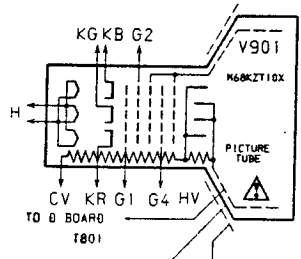
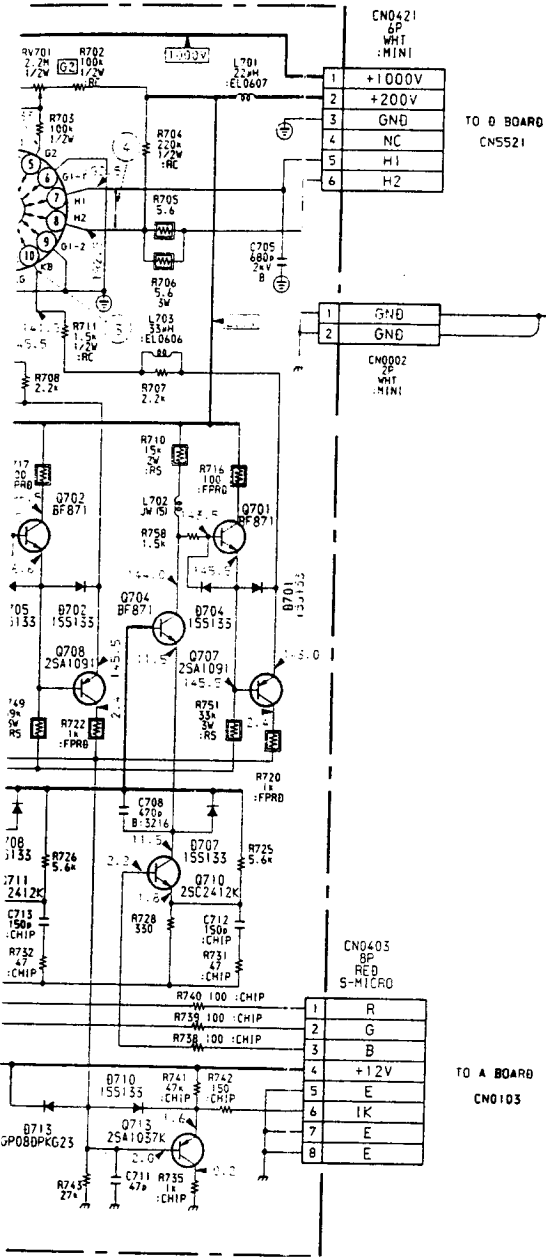
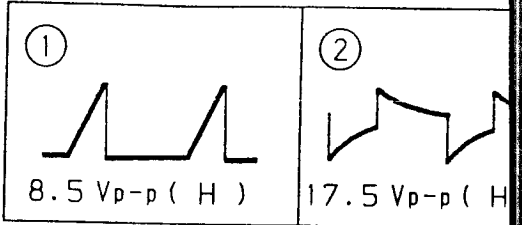


B-55AE2B(X/7)-C.1-29

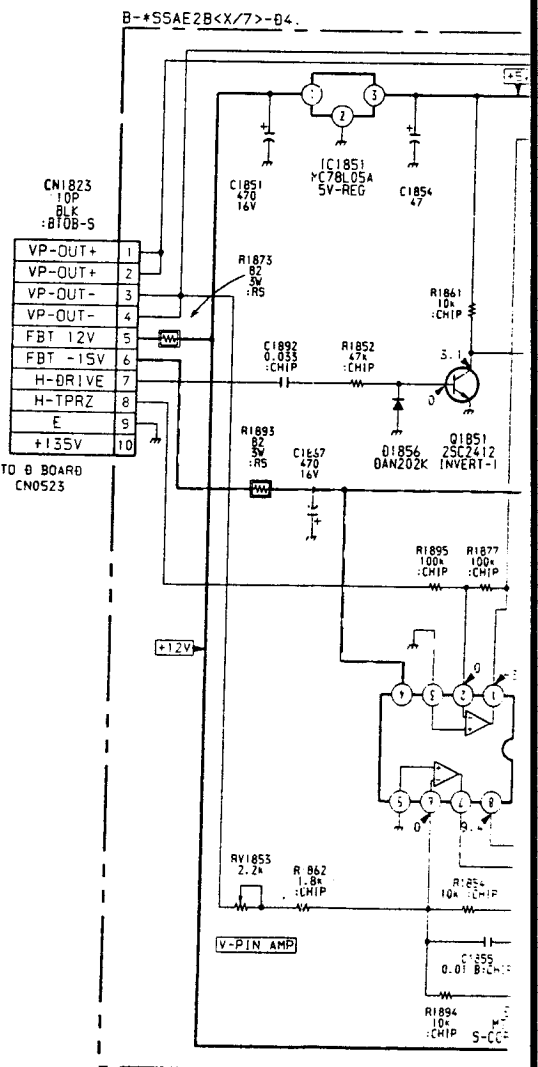
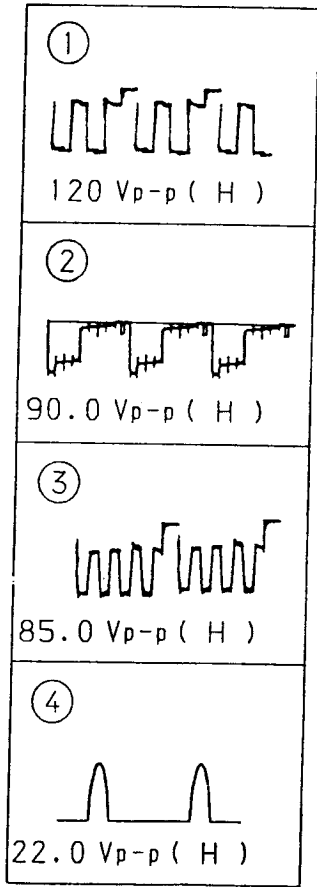




• WAVEFORMS D5 BOARD

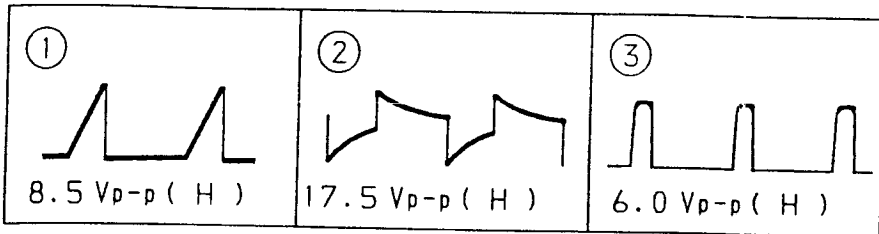


• WAVEFORMS C BOARD

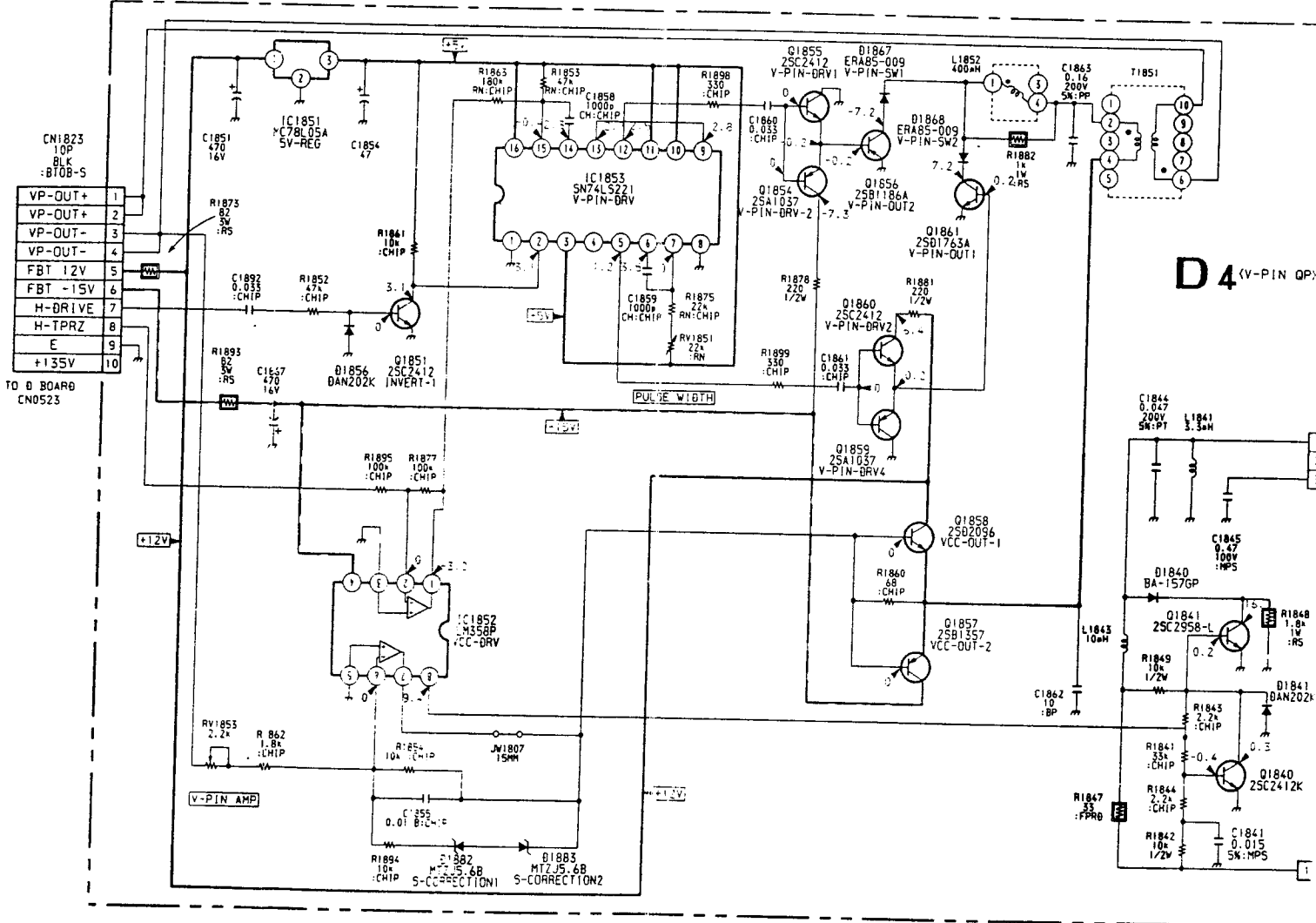


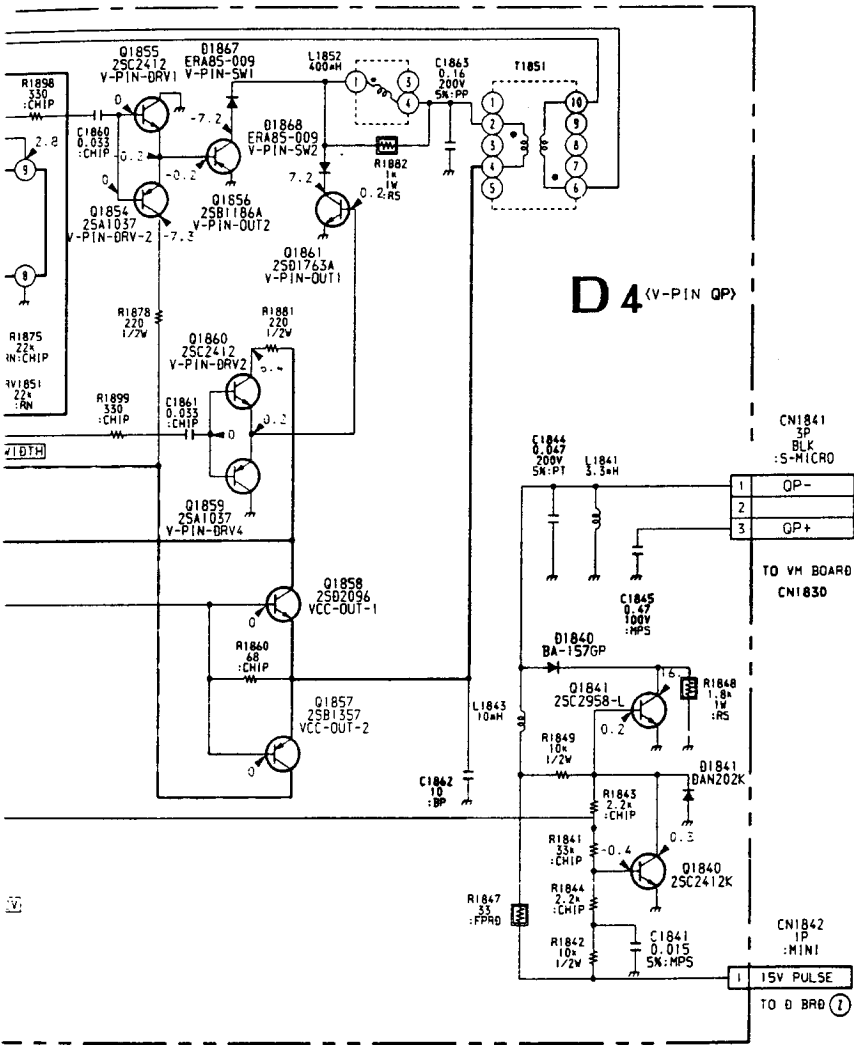
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• WAVEFORMS D5 BOARD



B-SSAE2B<X/7>-D4





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A1 [NICAM DECODER, NICAM DEMODULATOR]

C [RGB OUT]

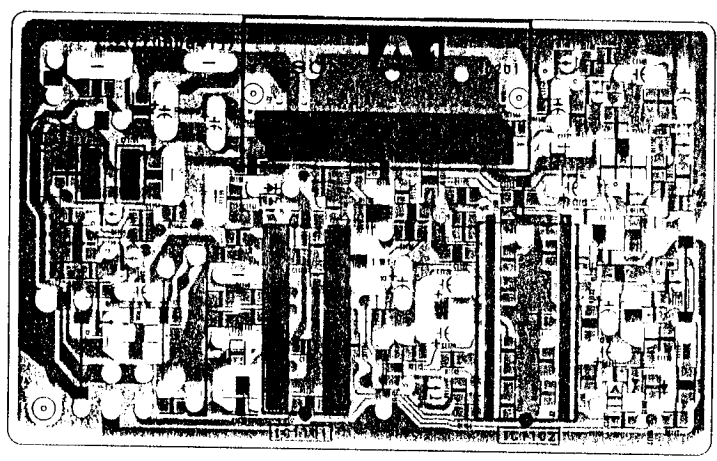
D5

VM [VM AMP]

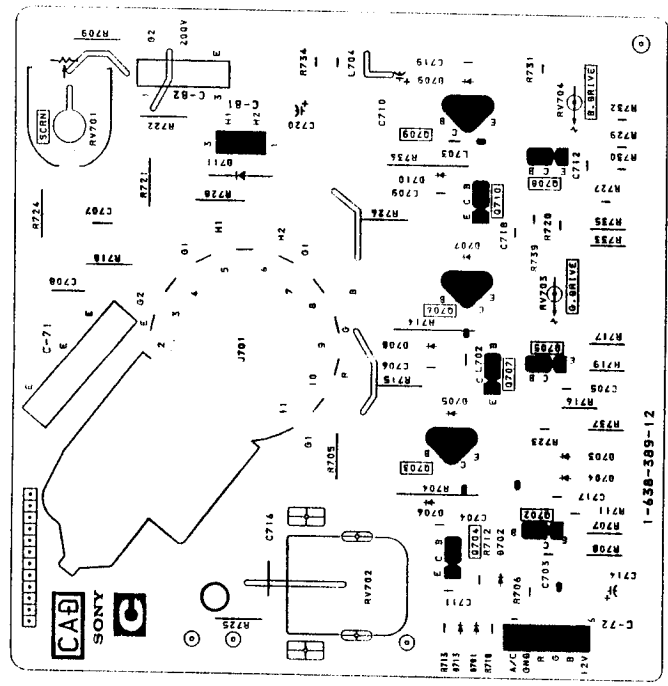
D4

[V - PIN Q, P]

- A1 BOARD - (Spanish, UK Model only)



- C BOARD -

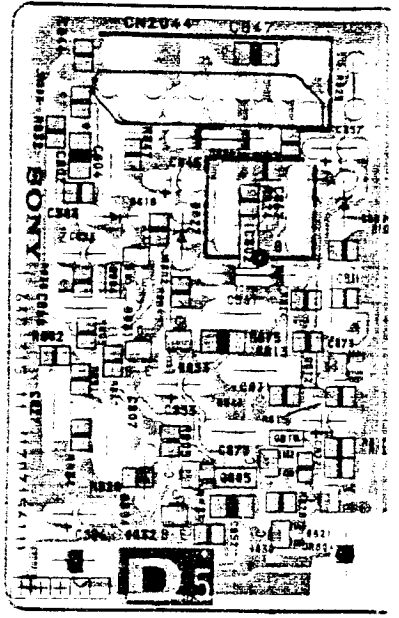


Note:
: Pattern of the front side.
: Pattern of the rear side.

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- D5 BOARD -

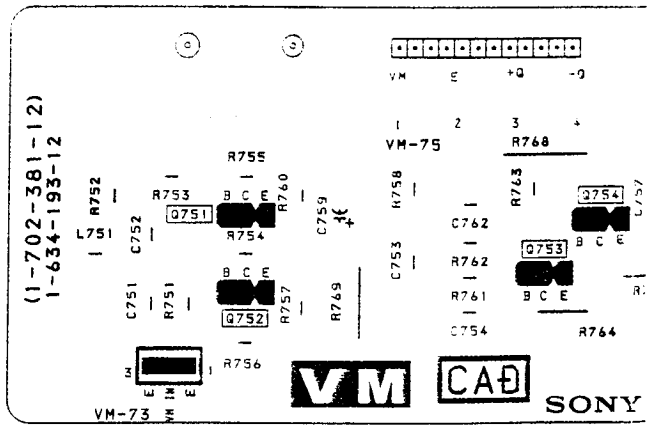
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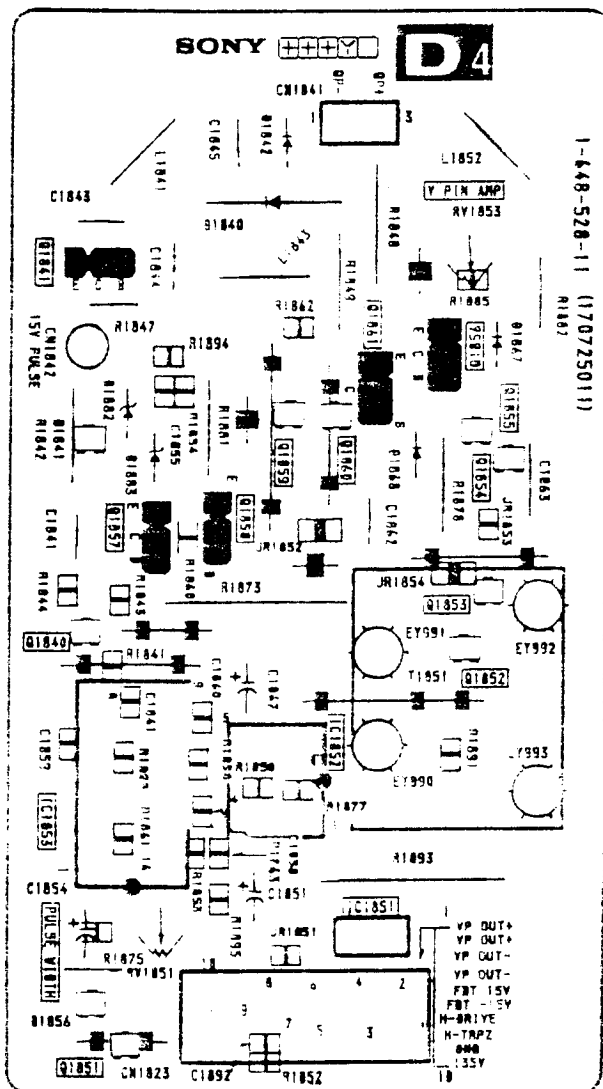
Note :

- : Pattern from the side which ex...
- : Pattern of the rear side.

- VM BOARD -

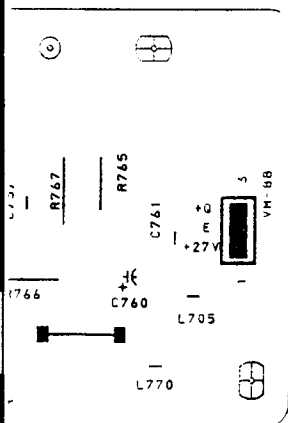


- D4 BOARD -



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ables seeing.



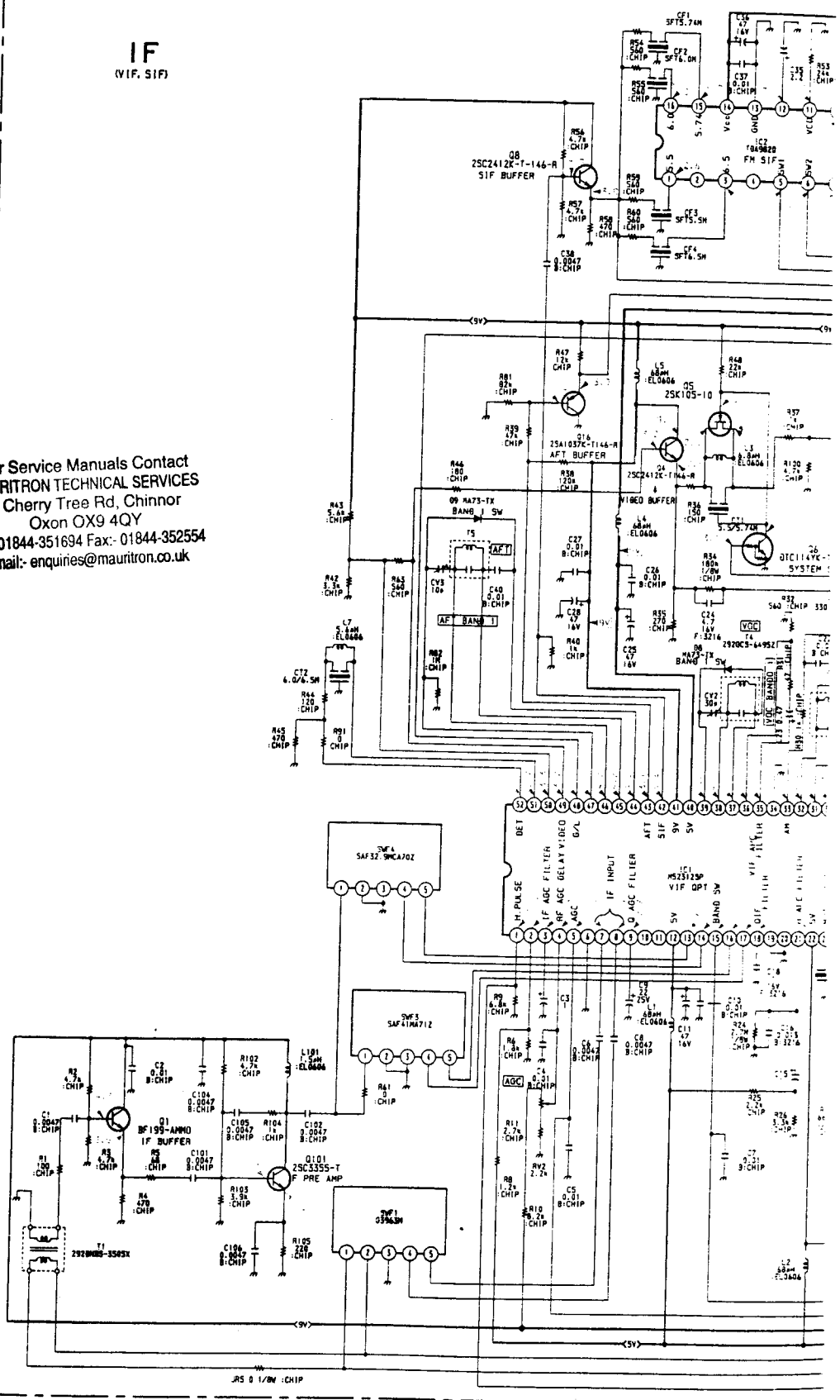
1 2 3 4 5 6

IFH389F (French Model)

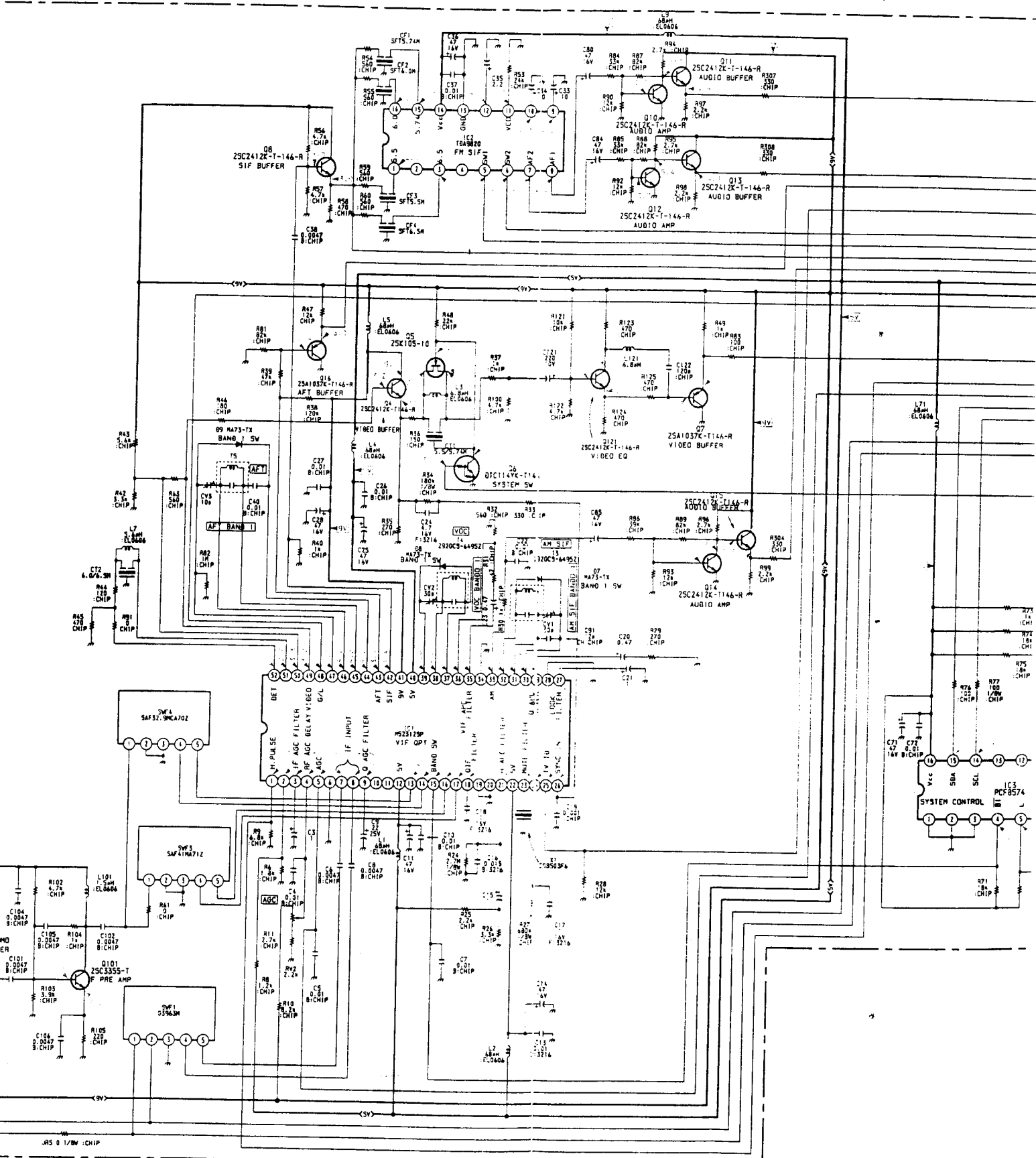
A
B
C
D
E
F
G
H
I
J

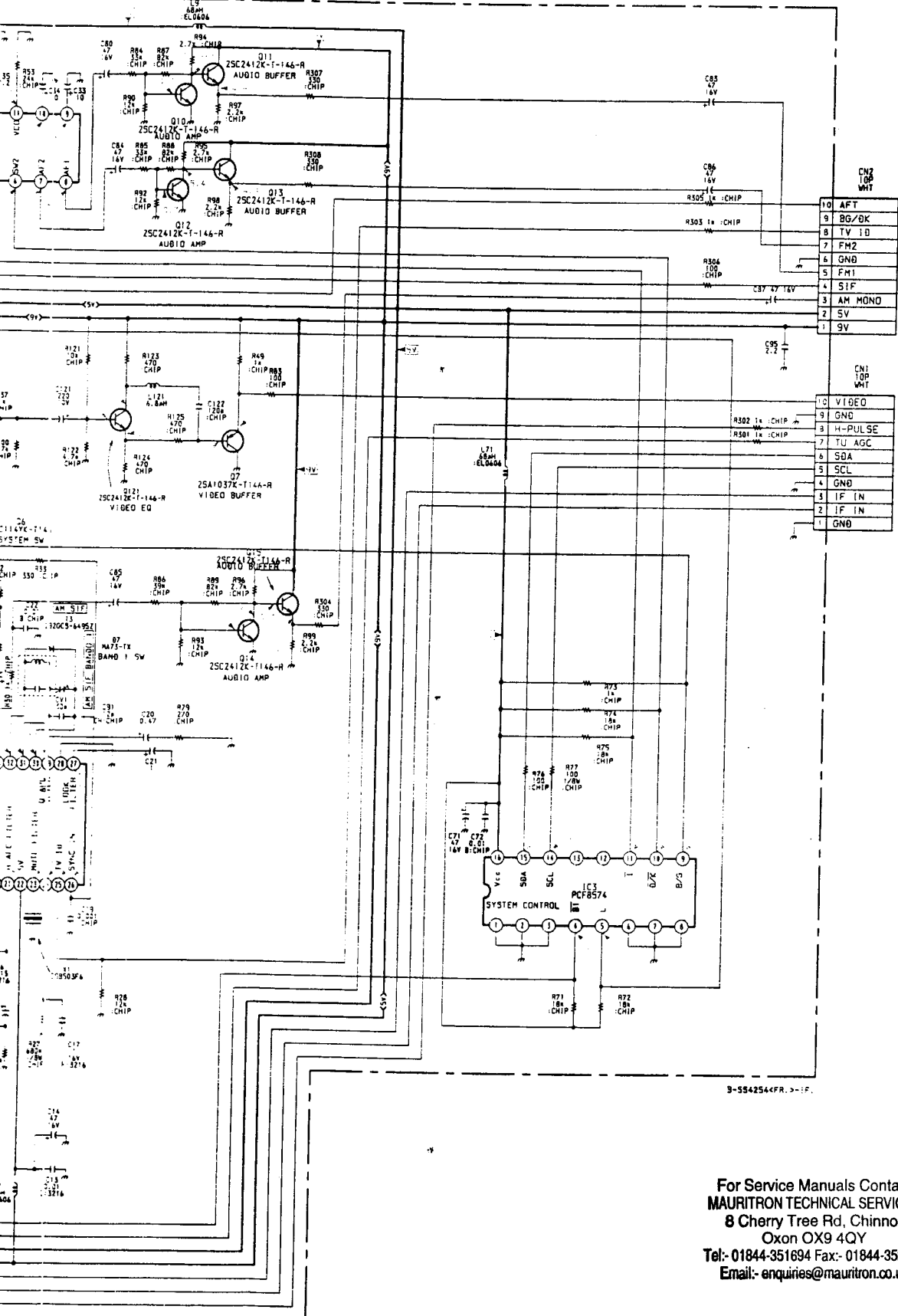
IF
(VIF, SIF)

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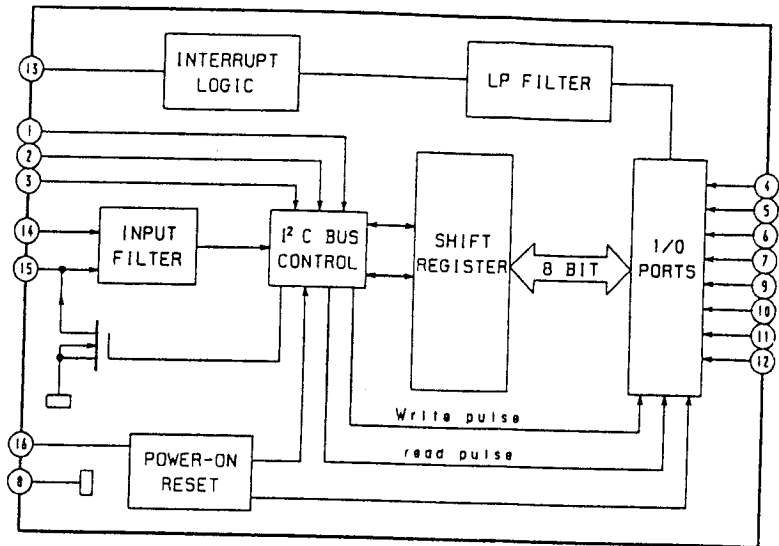
Model)





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• IF BOARD IC3 PC8574 (French Model)

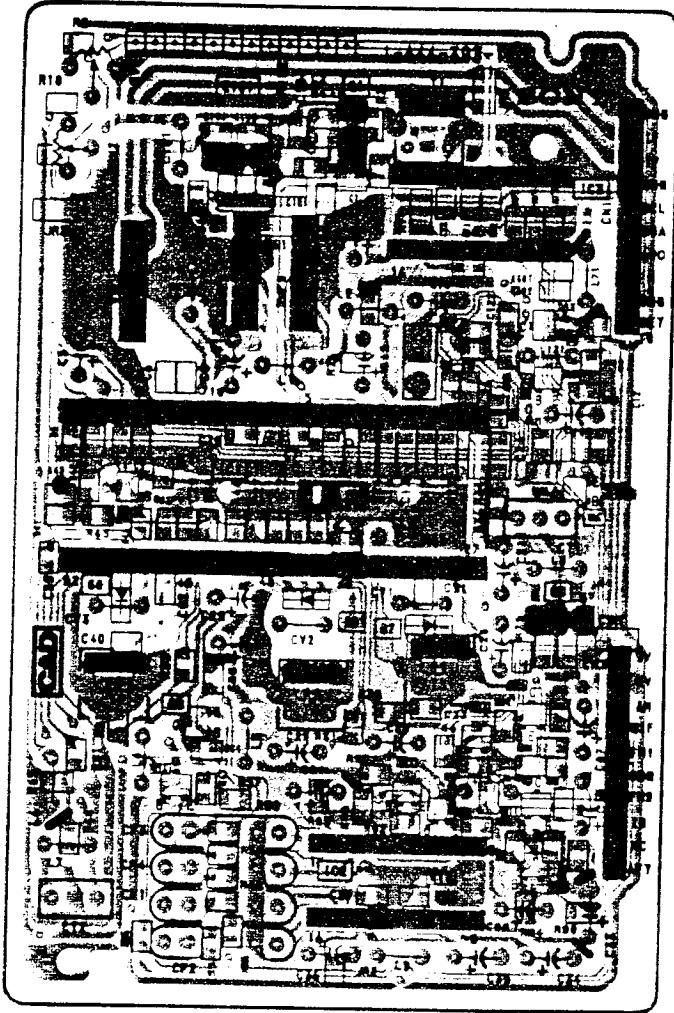


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IF

[VIF, SIF]

- IF BOARD - (French Model)

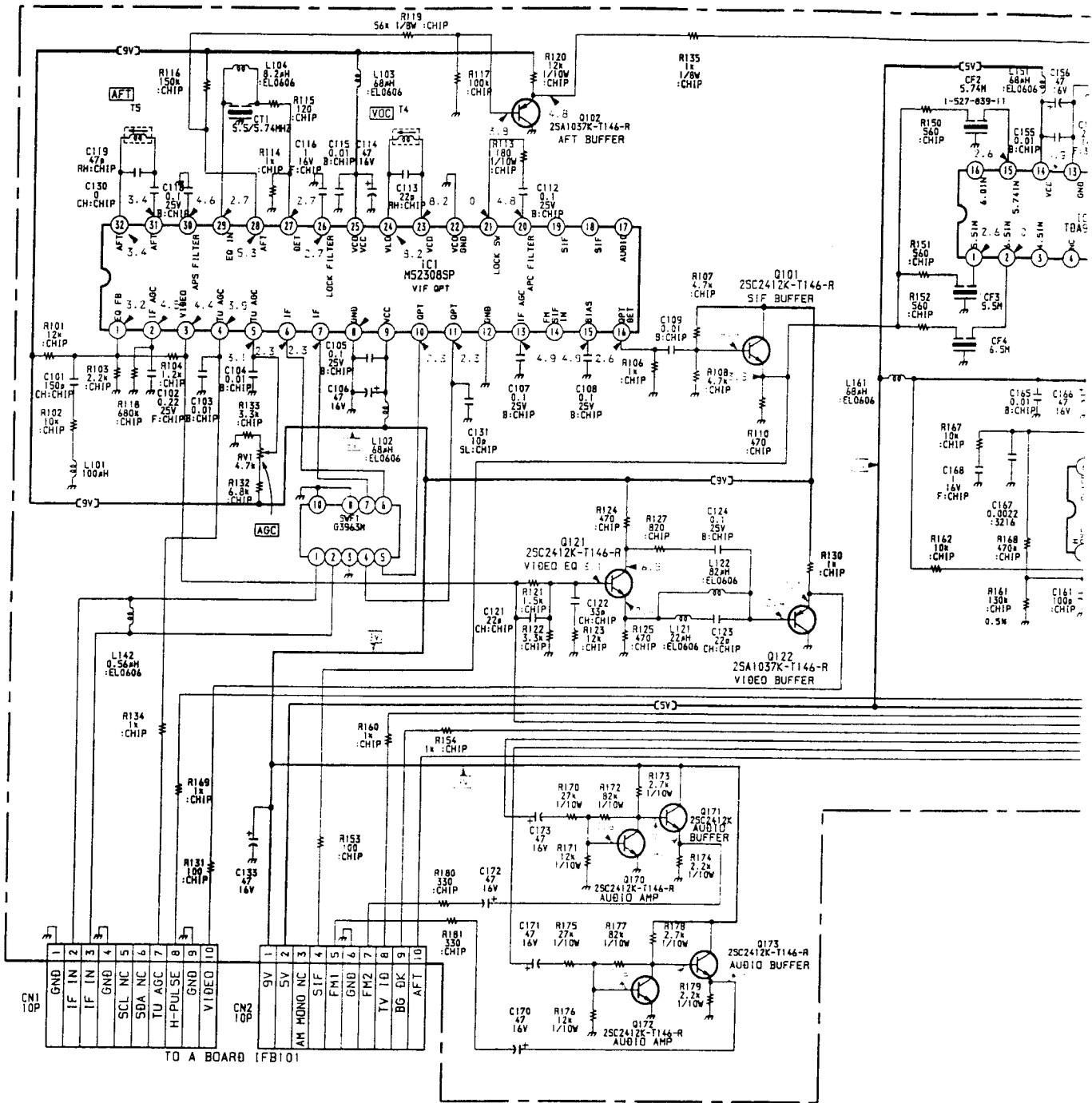


Note :

- Pattern of the side which enables covering.
- : Pattern of the rear side.

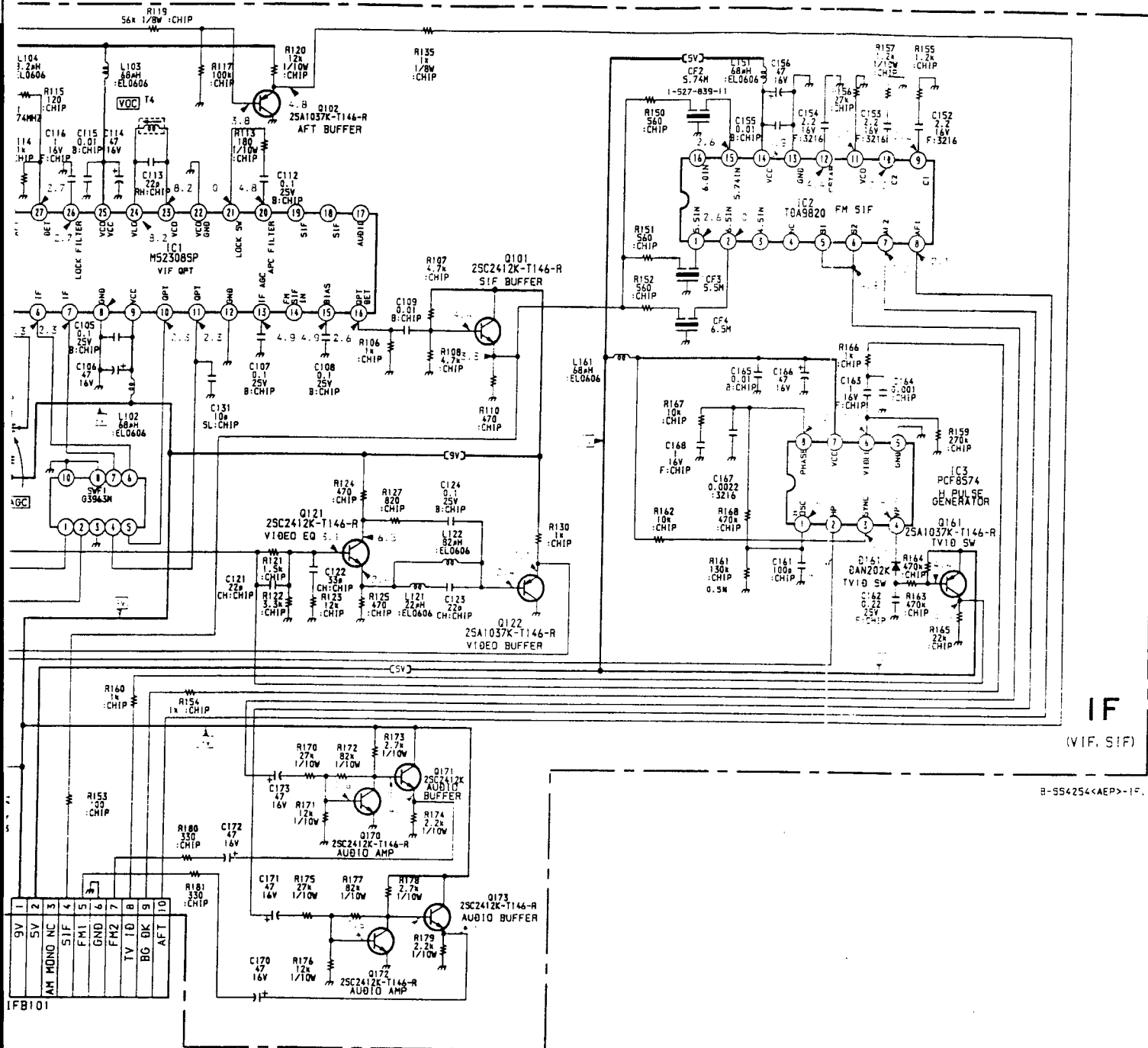
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1FH389 (AEP, Italian, Spanish Model)



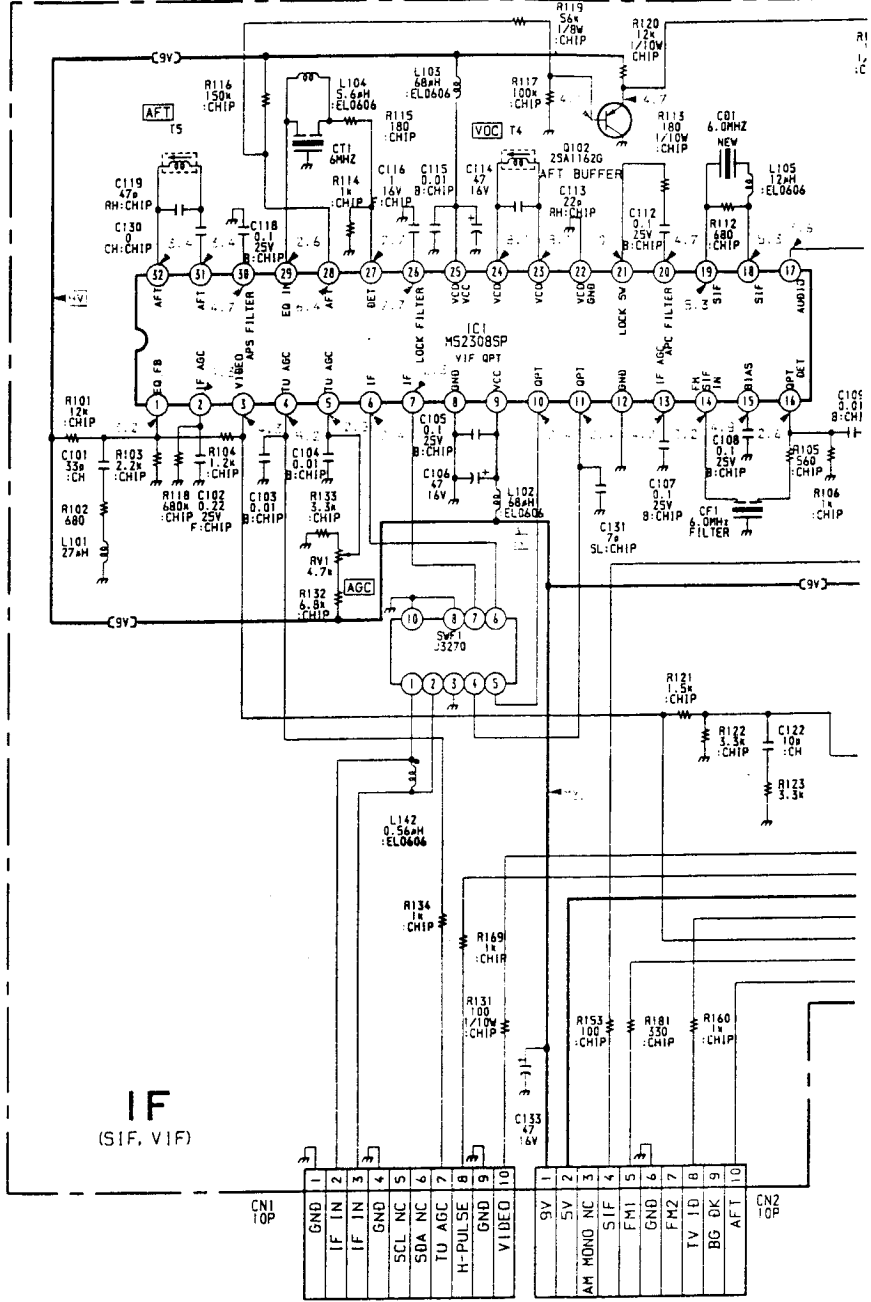
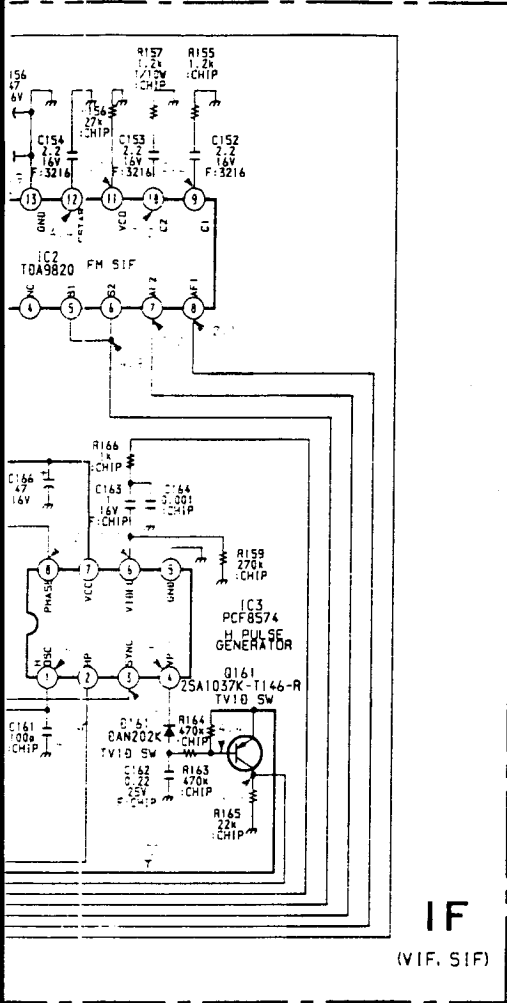
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Spanish Model)



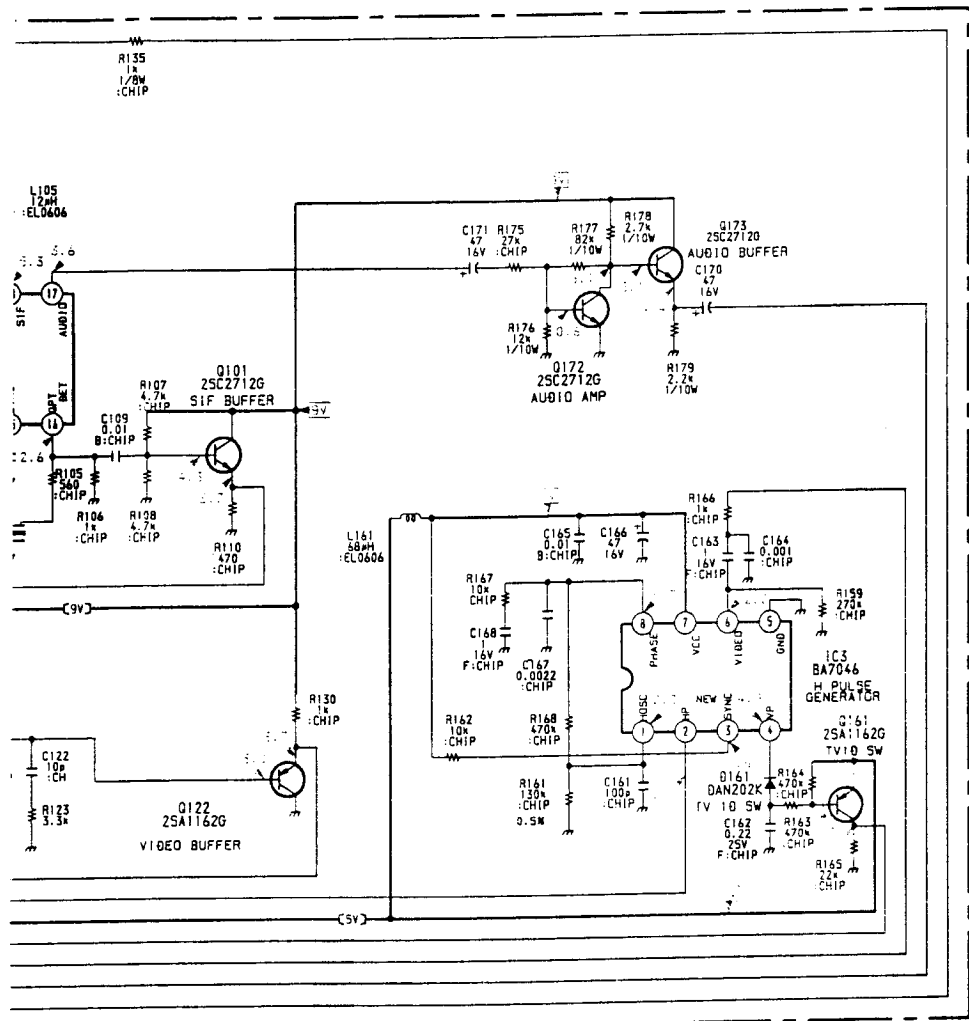
B-SS42544AEP>-IF.

IFH385 (UK Model)

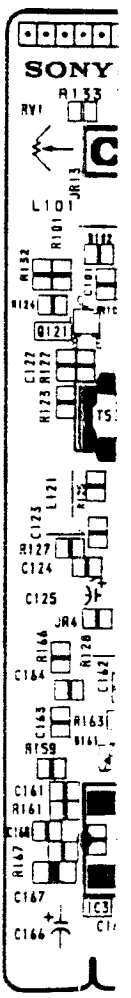


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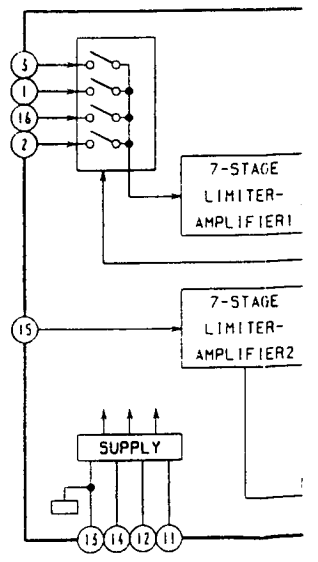
- IF BOA



3-554254<UK>-IF-

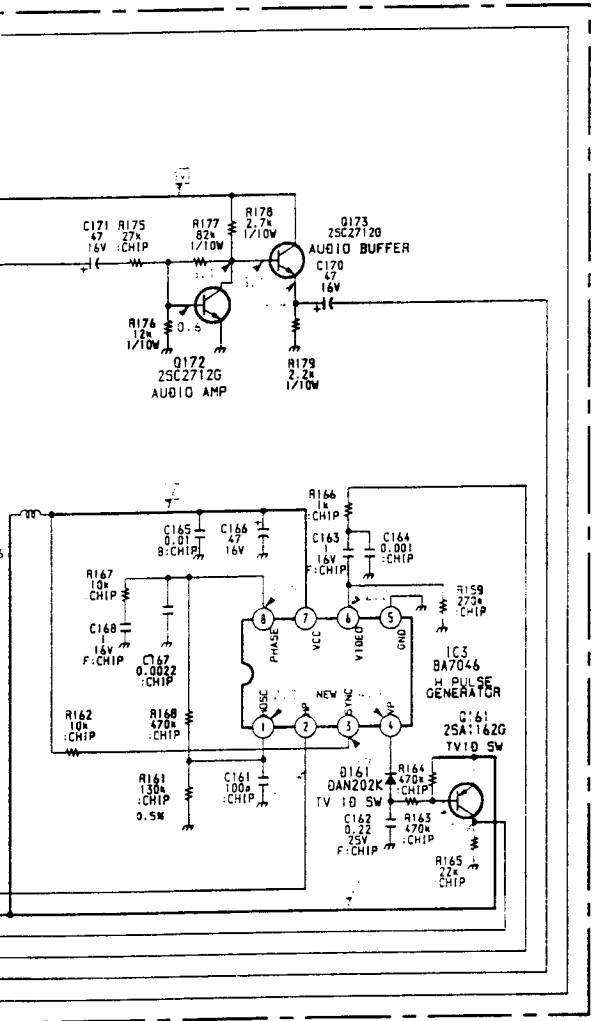


• IF BOARD IC2 TDAG



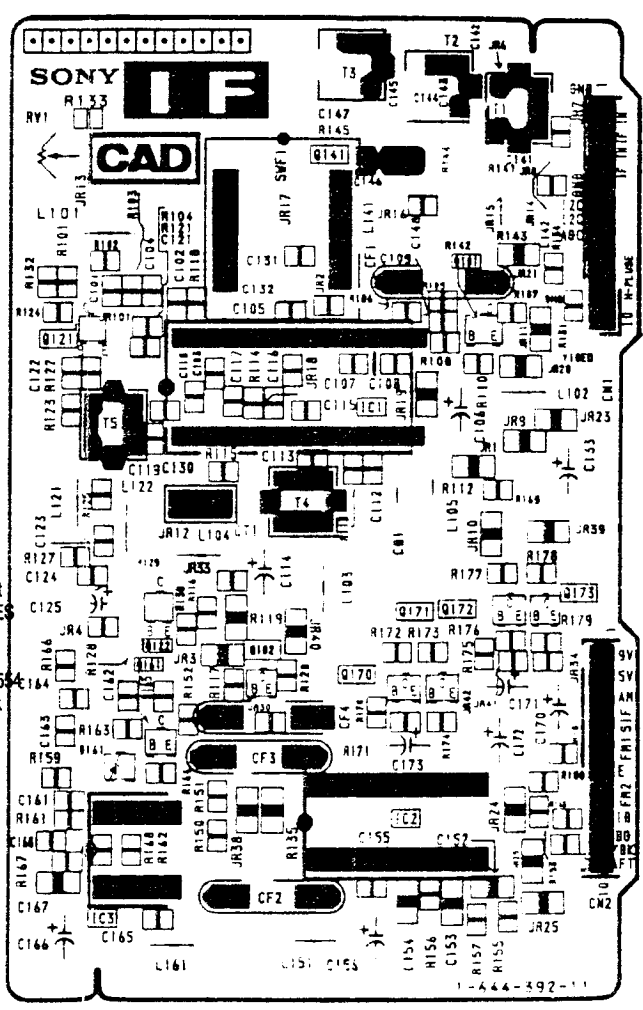
IF [VIF, SIF]

- IF BOARD - (AEP, Italian, Spanish Model)



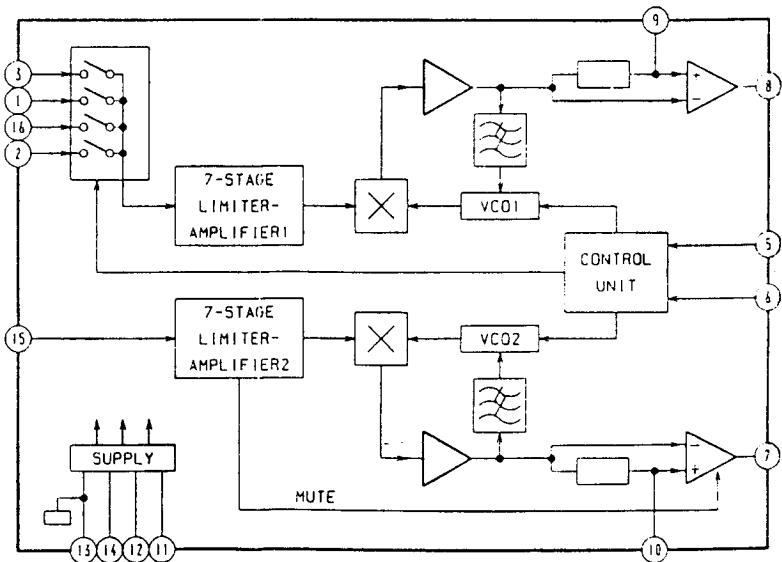
3-554254<UK.>-IF.

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• IF BOARD IC2 TDA9820 (AEP, Italian, Spanish Model)

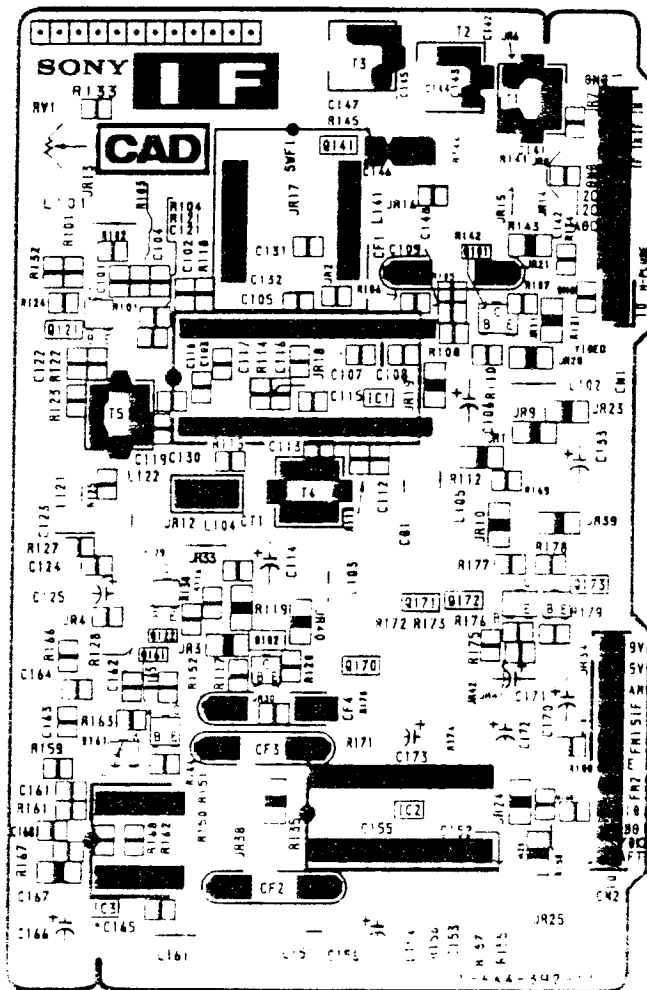
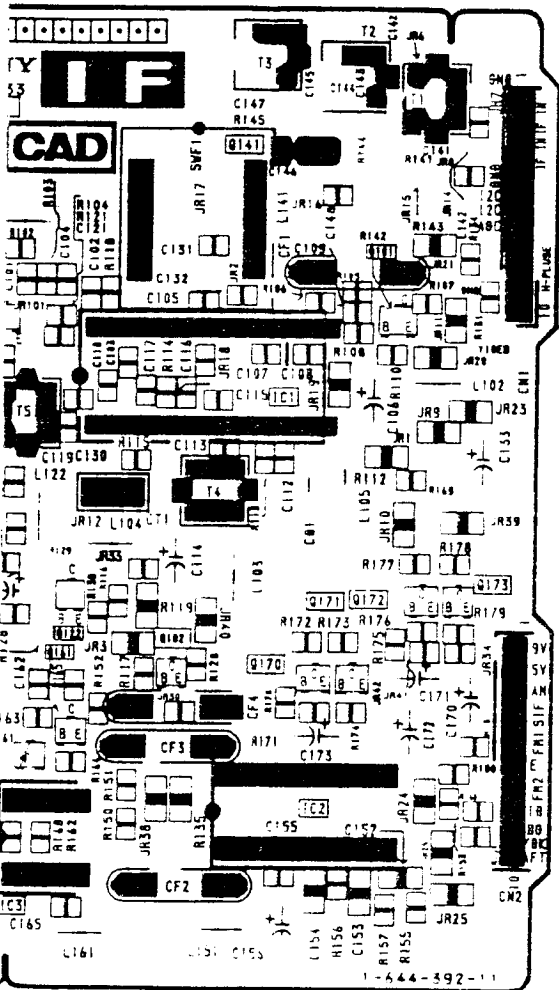
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[VIF, SIF]

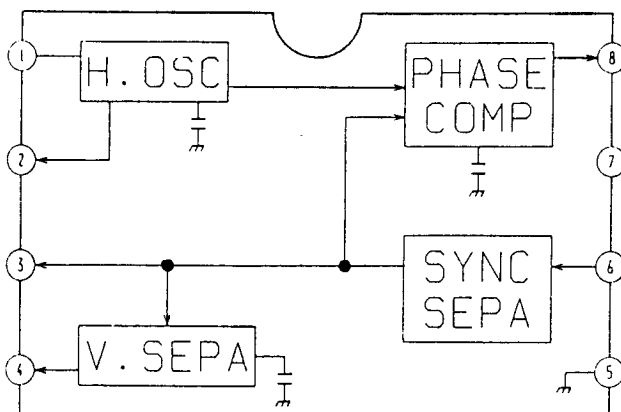
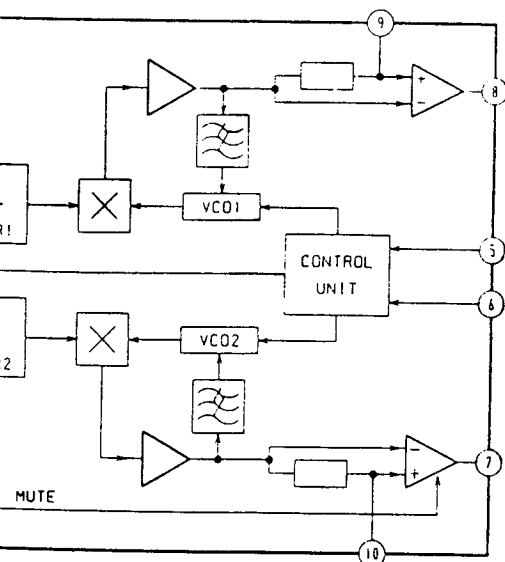
OARD - (AEP, Italian, Spanish Model)

- IF BOARD - (UK Model)



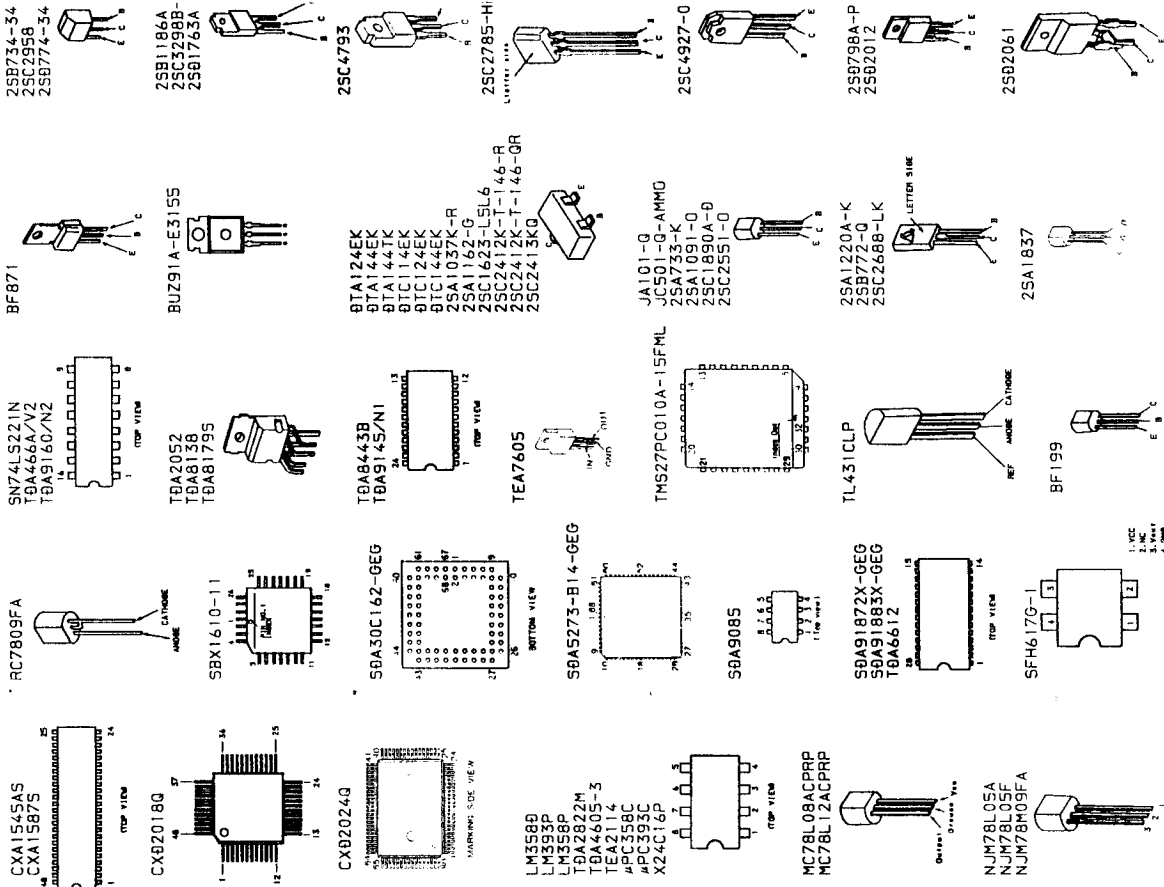
A9820 (AEP, Italian, Spanish Model)

• IF BOARD IC3 BA7046 (AEP, Italian, Spanish Model)

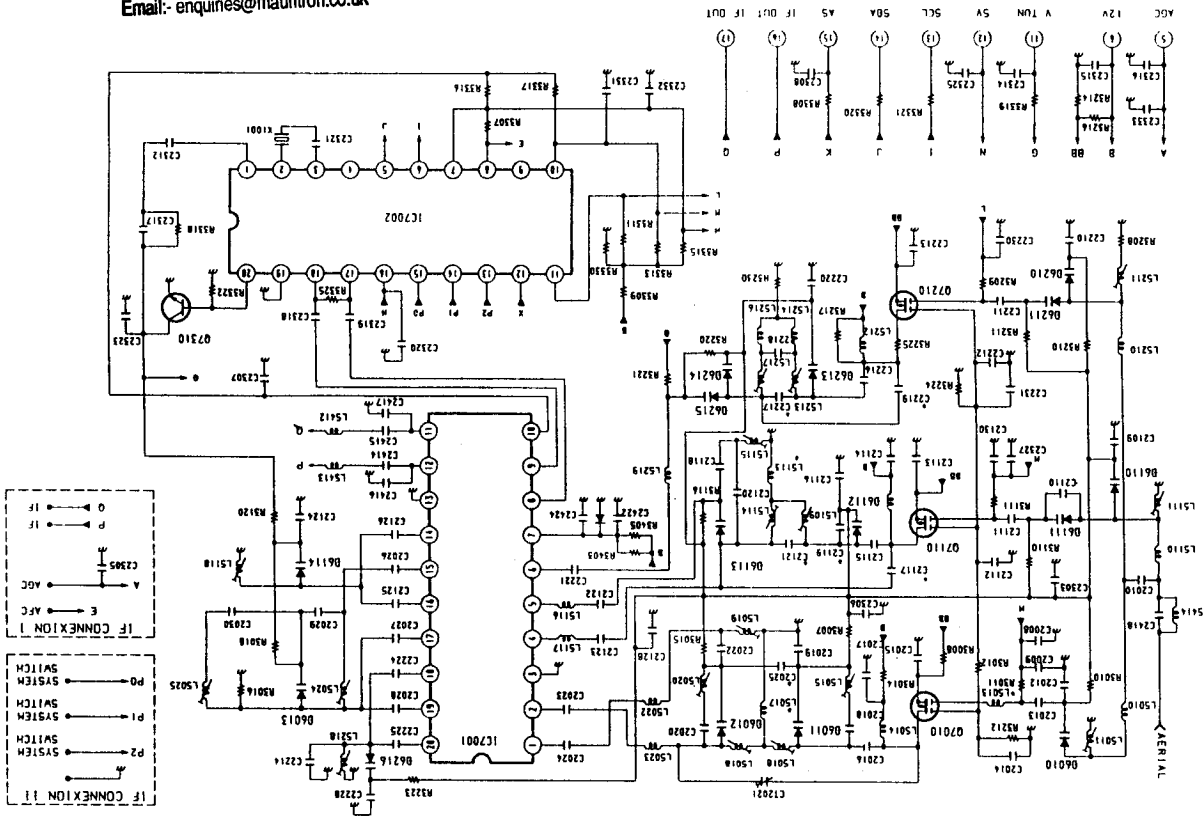


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5-5. SEMICONDUCTORS



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5-4. SCHEMATIC DIAGRAM OF TUNER
 A BOARD TU101 UV916H

25Ø2096-EF



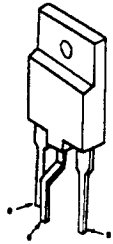
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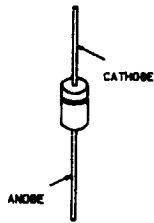
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25K1916-53-F50



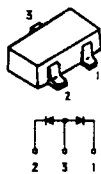
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RU3AM



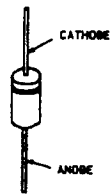
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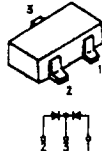
ØAN202K
ØAP202K
1S2836



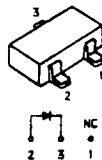
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ERB44-06
GP08Ø
RGP10GPKG23
RGP15GPKG23
R2K-V1
1N4148A-T265



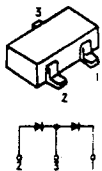
MA152WK



MA3030-H (TK)
MA3039H-TX
MA3047L-TX

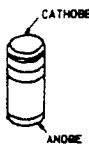


ØA204K

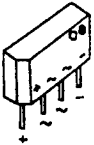


ERA85-009
MTZJ-T-77-12B
MTZJ-T-77-13C
MTZJ-T-77-15A
MTZJ-T-77-2.2A
MTZJ-T-77-3.6A
MTZJ-T-77-30B
MTZJ-T-77-33C
MTZJ-T-77-39C
MTZJ-T-77-5.6A
MTZJ-T-77-5.6B
MTZJ-T-77-7.5A
MTZJ-T-77-9.1
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RØ5.6ES-B2
RØ6.2ES-B2
RØ7.5ES-B2

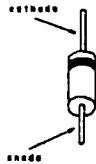
MA3051L-TX



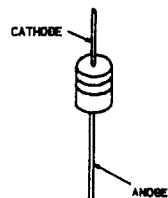
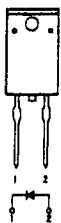
1S5226



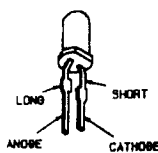
RGP02-17EL-6433



Ø5L60



LØ201VR



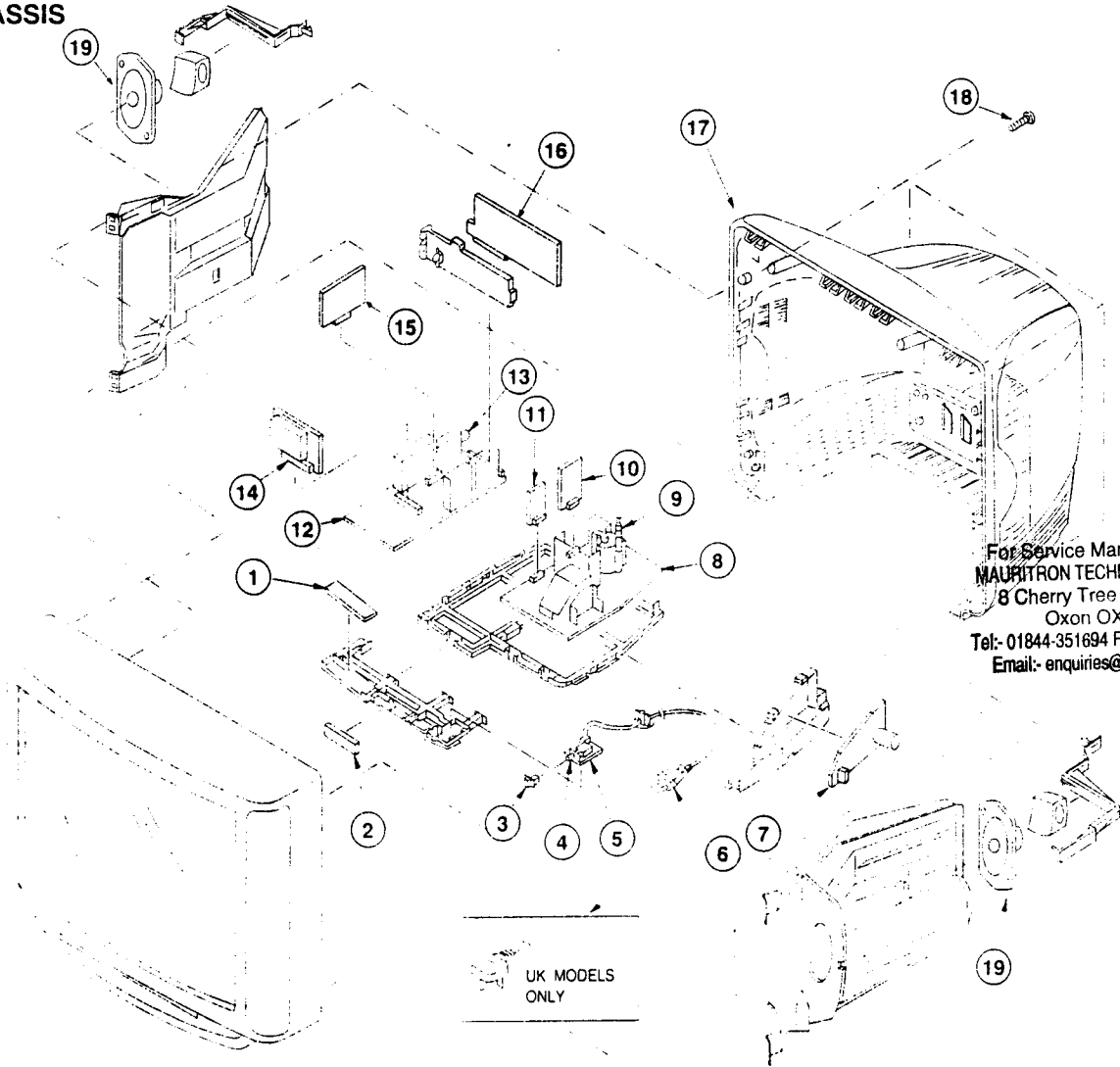
SECTION 6

EXPLODED VIEWS

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

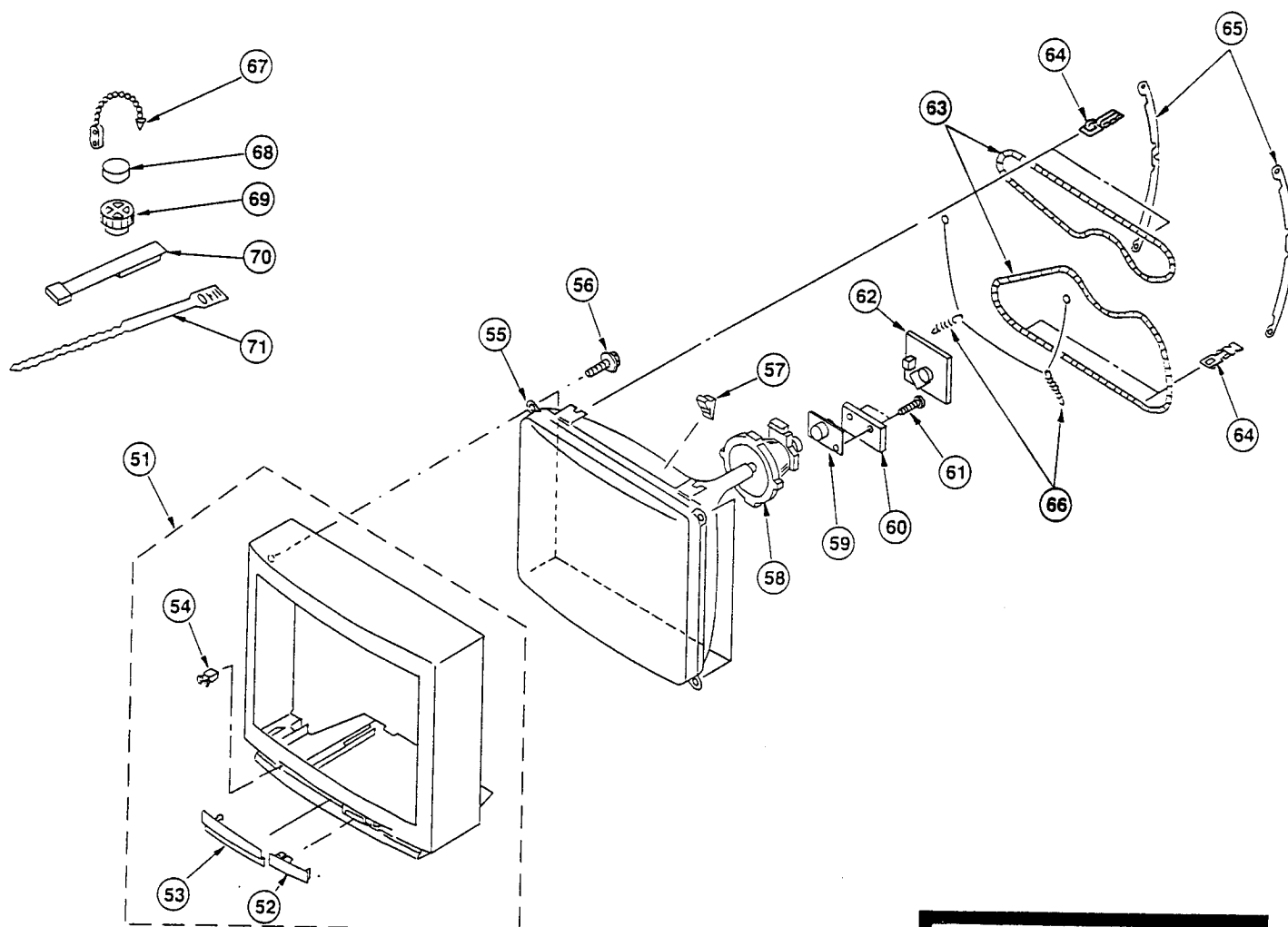
The components identified by shading and marked ! are critical for safety.
Replace only with the part number specified.

6-1. CHASSIS

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

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*A-1646-045-A	H1 BOARD, COMPLETE		11	*A-1640-109-A	D5 BOARD, COMPLETE	
2	*1-650-759-11	H2 BOARD		12	*A-1632-170-A	A BOARD, COMPLETE (KV-X2971A, X2921D, X2971K)	
3	4-202-637-01	BUTTON, POWER			*A-1632-183-A	A BOARD, COMPLETE (KV-X2971B)	
4	1-571-433-11	SWITCH, PUSH (AC POWER)			*A-1632-177-A	A BOARD, COMPLETE (KV-X2972U)	
5	*1-648-312-11	F1 BOARD			*A-1632-180-A	A BOARD, COMPLETE (KV-X2973E)	
6	1-751-680-11	CORD, POWER (WITH NOISE FILTER) (KV-X2971A, X2971D, X2971K)		13	1-693-184-11	TUNER (U944C) (KV-X2972U)	
	1-690-270-21	CORD, POWER (WITH CONNECTOR) (KV-X2971B, X2973E)			1-693-185-11	TUNER (UV916H) (KV-X2971B, X2971D X2971K, X2973E, X2971A)	
	1-590-762-11	CORD, POWER (WITH PLUG) (KV-X2922U)		14	*A-1635-015-A	M2 BOARD, COMPLETE	
7	*A-1624-018-A	F2 BOARD, COMPLETE		15	*A-1632-178-A	A1 BOARD, COMPLETE (KV-X2972U)	
8	*A-1642-097-A	D BOARD, COMPLETE			*A-1632-179-A	A1 BOARD, COMPLETE (KV-X2973E)	
9	1-453-153-11	TRANSFORMER ASSY, FLYBACK (NX-JU2602A2)		16	*A-1651-057-A	J BOARD, COMPLETE	
10	*A-1642-116-A	D4 BOARD, COMPLETE		17	4-043-530-01	COVER REAR	
				18	4-039-358-11	SCREW (4x16), (+) BV TAPPING	
				19	1-544-728-11	SPEAKER	

6-2. PICTURE TUBE



The components identified by shading and marked ! are critical for safety. Replace only with the part number specified.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	4-4031-666-1	CABINET ASSY (WITH BEZEL ASSY)	52-54	62	*A-1638-042-A	C BOARD, COMPLETE	
52	4-202-643-01	WINDOW, ORNAMENTAL		63	! 1-406-807-21	COIL, DEGAUSSING	
53	4-202-642-01	DOOR		64	4-202-415-01	CLIP, DGC (29")	
54	4-392-036-01	CATCHER, PUSH		65	4-202-416-01	BAND, DGC	
55	! 8-733-841-05	PICTURE TUBE (M68KZT10X)		66	4-200-433-01	SPRING, EXTENSION	
56	4-036-188-01	SCREW (M), PT		67	4-308-870-00	CLIP, LEAD WIRE	
57	3-704-495-01	SPACER, DY		68	1-452-032-00	MAGNET, DISK; 10MM	
58	! 8-451-422-11	DEFLECTION YOKE (Y29GXA)		69	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
59	! 1-452-509-11	NECK ASSY, PICTURE TUBE (NA308)		70	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
60	*A-1644-040-A	VM BOARD, COMPLETE		71	3-701-007-00	BAND, BINDING	
61	4-039-357-01	SCREW 3x8, BV TAPPING					

ELECTRICAL PARTS LIST

SECTION 7

The components identified by shading and marked * are critical for safety. Replace only with the part number specified.

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

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

• All resistors are in ohms
• F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

MF : mF, PF : mmF

COILS

MMH : mH, .H : mH

F2

F1

A1 (KV-X2972U)
KV-X2973E

REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1624-018-A	F2 BOARD, COMPLETE	(KV-X2971A, X2971D, X2971K)	
*A-1624-036-A	F2 BOARD, COMPLETE	(KV-X2971B, X2973E, X2972U)	
< CAPACITOR >			
C661	1-136-519-12	FILM 0.47MF	20% 300V
C662	1-136-518-12	FILM 0.33MF	20% 300V
C664	1-164-503-61	CERAMIC 0.0022MF	20% 400V
C666	1-124-479-11	ELECT 330MF	20% 25V
C667	1-126-337-11	ELECT 22MF	20% 50V
C672	1-161-964-61	CERAMIC 0.0047MF	250V
C673	1-161-964-61	CERAMIC 0.0047MF	250V
C674	1-125-555-11	ELECT 330MF	20% 400V
< CONNECTOR >			
CN0005	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN0007	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN0924	*1-568-878-51	PIN, CONNECTOR 3P	
CN0925	*1-695-294-11	PIN, CONNECTOR (PC BOARD) 6P	
CN0929	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN0931	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
< DIODE >			
D661	8-719-901-33	DIODE 1SS133	
D663	8-719-510-53	DIODE D4SB60L	
D664	8-719-109-89	DIODE RD5.6ESB2	
< TRANSFORMER >			
LF661	1-423-688-11	TRANSFORMER, LINE FILTER (LFT)	
LF662	1-424-391-11	TRANSFORMER, LINE FILTER (KV-X2971A, X2971D, X2971K)	
< TRANSISTOR >			
Q661	8-729-920-74	TRANSISTOR 2SC2412X-QR	
< RESISTOR >			
R663	1-244-945-91	CARBON 1M	5% 1/2W
R664	1-205-949-11	WIREWOUND 1.8	5% 10W
R665	1-218-265-11	METAL GLAZE 8.2M	5% 1W
R666	1-247-807-31	CARBON 100	5% 1/4W F
R667	1-249-430-11	CARBON 12K	5% 1/4W
R668	1-249-436-11	CARBON 39K	5% 1/4W
R669	1-205-949-11	WIREWOUND 1.8	5% 10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R671	1-249-417-11	CARBON 1K 5% 1/4W F	
< RELAY >			
RY661	1-515-720-31	RELAY	
< THERMISTOR >			
THP661	1-809-827-11	THERMISTOR, POSITIVE	

	*1-648-312-11	F1 BOARD	*****
< CONNECTOR >			
CN0003	*1-580-844-11	PIN, CONNECTOR (POWER)	
CN0831	*1-695-292-11	PIN, CONNECTOR (POWER)	
< FUSE >			
F651	1-576-232-21	FUSE (H.B.C.) 5A/250V	
< SWITCH >			
S651	1-571-433-11	SWITCH, PUSH (AC POWER)	

	*A-1632-179-A	A1 BOARD, COMPLETE (KV-X2973E)	*****
	*A-1632-178-A	A1 BOARD, COMPLETE (KV-X2972U)	*****
< CAPACITOR >			
C1101	1-126-101-11	ELECT 100MF	20% 16V
C1102	1-126-101-11	ELECT 100MF	20% 16V
C1103	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V
C1104	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V
C1105	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1106	1-163-383-91	CERAMIC CHIP 180PF	5% 50V
C1107	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1108	1-163-059-00	CERAMIC CHIP 0.01MF	50V
C1109	1-163-033-00	CERAMIC CHIP 0.022MF	50V
C1110	1-164-336-11	CERAMIC CHIP 0.33MF	25V
C1111	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1112	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C1113	1-124-477-11	ELECT 47MF	20% 16V
C1114	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1115	1-124-477-11	ELECT 47MF	20% 16V

A1 (KV-X2972U)
 (KV-X2973E)

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1127	1-216-097-00	METAL GLAZE 100K 5%	1/10W	C207	1-137-613-11	FILM 0.0018MF	2%
R1128	1-216-089-91	METAL GLAZE 47K 5%	1/10W	C208	1-164-005-11	CERAMIC CHIP 0.47MF	25V
R1129	1-216-089-91	METAL GLAZE 47K 5%	1/10W	C209	1-164-005-11	CERAMIC CHIP 0.47MF	25V
R1130	1-216-246-91	METAL GLAZE 100K 5%	1/8W	C210	1-164-005-11	CERAMIC CHIP 0.47MF	25V
R1131	1-216-218-00	METAL GLAZE 6.8K 5%	1/8W	C213	1-163-023-00	CERAMIC CHIP 0.015MF	10%
R1132	1-216-097-00	METAL GLAZE 100K 5%	1/10W	C214	1-163-023-00	CERAMIC CHIP 0.015MF	10%
R1133	1-216-089-91	METAL GLAZE 47K 5%	1/10W	C215	1-163-809-11	CERAMIC CHIP 0.047MF	10%
R1134	1-216-212-00	METAL GLAZE 3.9K 5%	1/8W	C216	1-163-809-11	CERAMIC CHIP 0.047MF	10%
R1135	1-216-081-00	METAL GLAZE 22K 5%	1/10W	C217	1-124-925-11	ELECT 2.2MF	20%
R1136	1-216-081-00	METAL GLAZE 22K 5%	1/10W	C218	1-124-925-11	ELECT 2.2MF	20%
R1137	1-216-095-00	METAL GLAZE 82K 5%	1/10W	C219	1-163-011-11	CERAMIC CHIP 0.0015MF	10%
R1138	1-216-097-00	METAL GLAZE 100K 5%	1/10W	C220	1-163-011-11	CERAMIC CHIP 0.0015MF	10%
R1139	1-216-005-00	METAL GLAZE 15 5%	1/10W	C221	1-124-925-11	ELECT 2.2MF	20%
R1140	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	C222	1-124-925-11	ELECT 2.2MF	20%
R1141	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	C223	1-136-177-00	FILM 1MF	5%
R1142	1-216-033-00	METAL GLAZE 220 5%	1/10W	C224	1-136-177-00	FILM 1MF	5%
R1143	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C225	1-164-182-11	CERAMIC CHIP 0.0033MF	10%
R1144	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C226	1-163-007-11	CERAMIC CHIP 680PF	10%
R1145	1-216-001-00	METAL GLAZE 10 5%	1/10W	C227	1-124-907-11	ELECT 10MF	20%
R1146	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C228	1-124-907-11	ELECT 10MF	20%
R1147	1-216-045-00	METAL GLAZE 680 5%	1/10W	C229	1-124-478-11	ELECT 100MF	20%
R1148	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C230	1-124-478-11	ELECT 100MF	20%
R1149	1-216-001-00	METAL GLAZE 10 5%	1/10W	C231	1-164-346-11	CERAMIC CHIP 1MF	16V
R1150	1-216-045-00	METAL GLAZE 680 5%	1/10W	C232	1-163-009-11	CERAMIC CHIP 0.001MF	10%
R1151	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C233	1-163-009-11	CERAMIC CHIP 0.001MF	10%
R1152	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C234	1-164-161-11	CERAMIC CHIP 0.0022MF	10%
R1153	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C235	1-130-772-00	FILM 0.22MF	5%
R1154	1-216-041-00	METAL GLAZE 470 5%	1/10W	C236	1-124-618-11	ELECT 2200MF	20%
				C237	1-124-618-11	ELECT 2200MF	20%
				C238	1-164-161-11	CERAMIC CHIP 0.0022MF	10%
				C239	1-130-772-00	FILM 0.22MF	5%
X1101	1-579-689-21	VIBRATOR, CRYSTAL		C240	1-124-916-11	ELECT 22MF	20%
X1102	1-579-282-21	VIBRATOR, CRYSTAL (KV-X2973E)		C241	1-124-916-11	ELECT 22MF	20%
	1-579-283-21	VIBRATOR, CRYSTAL (KV-X2972U)		C242	1-124-903-11	ELECT 1MF	20%
				C244	1-164-232-11	CERAMIC CHIP 0.01MF	10%
				C248	1-163-185-00	CERAMIC CHIP 150PF	5%
				C249	1-163-129-00	CERAMIC CHIP 330PF	5%
				C251	1-126-320-11	ELECT 10MF	20%
				C254	1-163-133-00	CERAMIC CHIP 470PF	5%
				C255	1-163-133-00	CERAMIC CHIP 470PF	5%
				C256	1-163-133-00	CERAMIC CHIP 470PF	5%
				C257	1-163-133-00	CERAMIC CHIP 470PF	5%
				C299	1-164-337-11	CERAMIC CHIP 2.2MF	16V
				C301	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C302	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C303	1-164-337-11	CERAMIC CHIP 2.2MF	16V
				C304	1-164-004-11	CERAMIC CHIP 0.1MF	10%
				C305	1-163-096-00	CERAMIC CHIP 13PF	5%
				C306	1-163-097-00	CERAMIC CHIP 15PF	5%
				C307	1-163-017-00	CERAMIC CHIP 0.0047MF	10%
				C308	1-163-809-11	CERAMIC CHIP 0.047MF	10%
				C309	1-164-004-11	CERAMIC CHIP 0.1MF	10%
				C310	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C311	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C312	1-124-477-11	ELECT 47MF	20%
				C313	1-163-077-91	CERAMIC CHIP 0.1MF	50V
				C314	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C315	1-124-477-11	ELECT 47MF	20%
				C316	1-163-077-91	CERAMIC CHIP 0.1MF	50V
				C317	1-163-103-00	CERAMIC CHIP 27PF	5%
C071	1-126-108-11	ELECT 56MF	20%	16V			
C072	1-124-120-11	ELECT 220MF	20%	16V			
C074	1-163-001-11	CERAMIC CHIP 220PF	10%	50V			
C102	1-126-103-11	ELECT 470MF	20%	16V			
C103	1-163-031-11	CERAMIC CHIP 0.01MF		50V			
C104	1-124-477-11	ELECT 47MF	20%	16V			
C105	1-124-916-11	ELECT 22MF	20%	50V			
C106	1-124-927-11	ELECT 4.7MF	20%	50V			
C110	1-124-478-11	ELECT 100MF	20%	25V			
C120	1-163-031-11	CERAMIC CHIP 0.01MF		50V			
C201	1-130-489-00	FILM 0.033MF	5%	50V			
C202	1-130-489-00	FILM 0.033MF	5%	50V			
C203	1-164-005-11	CERAMIC CHIP 0.47MF		25V			
C204	1-164-005-11	CERAMIC CHIP 0.47MF		25V			
C205	1-124-907-11	ELECT 10MF	20%	50V			
C206	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V			

< CRYSTAL >

< CAPACITOR >

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C318	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	C592	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C319	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C593	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C320	1-124-477-11	ELECT 47MF	20% 16V	C595	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C321	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C599	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C322	1-124-916-11	ELECT 22MF	20% 50V	C644	1-124-916-11	ELECT 22MF	20% 50V
C323	1-163-135-00	CERAMIC CHIP 560PF	5% 50V	C681	1-124-478-11	ELECT 100MF	20% 25V
C324	1-124-477-11	ELECT 47MF	20% 16V	C682	1-125-516-11	ELECT 120MF	20% 16V
C325	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	C683	1-124-478-11	ELECT 100MF	20% 25V
C341	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V	C685	1-124-478-11	ELECT 100MF	20% 25V
C342	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V	C686	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C343	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C687	1-124-916-11	ELECT 22MF	20% 50V
C344	1-162-638-11	CERAMIC CHIP 1MF	16V			< FILTER >	
C345	1-164-346-11	CERAMIC CHIP 1MF	16V				
C346	1-124-925-11	ELECT 2.2MF	20% 50V				
C347	1-162-638-11	CERAMIC CHIP 1MF	16V	CF581	1-577-611-11	OSCILLATOR, CERAMIC	
C348	1-164-346-11	CERAMIC CHIP 1MF	16V			< CONNECTOR >	
C349	1-164-346-11	CERAMIC CHIP 1MF	16V				
C350	1-124-907-11	ELECT 10MF	20% 50V	CN0001	*1-568-880-51	PIN, CONNECTOR 5P	
C351	1-124-443-00	ELECT 100MF	20% 10V	CN0101	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P (KV-X2973E, X2972U)	
C353	1-164-346-11	CERAMIC CHIP 1MF	16V	CN0103	1-564-511-11	PLUG, CONNECTOR 8P	
C354	1-164-346-11	CERAMIC CHIP 1MF	16V	CN0104	1-564-511-11	PLUG, CONNECTOR 8P	
C355	1-162-638-11	CERAMIC CHIP 1MF	16V	CN0105	*1-568-880-51	PIN, CONNECTOR 5P	
C356	1-164-439-11	CERAMIC CHIP 0.22MF	10% 16V	CN0106	*1-568-880-51	PIN, CONNECTOR 5P	
C357	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V				
C358	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V	CN0107	*1-568-879-11	PIN, CONNECTOR 4P	
C359	1-124-907-11	ELECT 10MF	20% 50V	CN0108	*1-568-878-51	PIN, CONNECTOR 3P	
C360	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	CN0109	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
C361	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	CN0110	*1-568-882-51	PIN, CONNECTOR 7P	
C362	1-130-772-00	FILM 0.22MF	5% 63V	CN0113	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C363	1-124-907-11	ELECT 10MF	20% 50V	CN0119	*1-568-879-11	PIN, CONNECTOR 4P	
C365	1-124-120-11	ELECT 220MF	20% 16V	CN5108	*1-564-513-11	PLUG, CONNECTOR 10P	
C366	1-124-903-11	ELECT 1MF	20% 50V			< DIODE >	
C369	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	D068	8-719-914-44	DIODE DAP202K	
C401	1-164-005-11	CERAMIC CHIP 0.47MF	16V	D069	8-719-914-44	DIODE DAP202K	
C402	1-124-034-51	ELECT 33MF	20% 16V	D071	8-719-109-89	DIODE RD5.6ESB2	
C403	1-162-637-11	CERAMIC CHIP 0.47MF	16V	D073	8-719-109-89	DIODE RD5.6ESB2	
C411	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D075	8-719-914-43	DIODE DAN202K	
C412	1-164-005-11	CERAMIC CHIP 0.47MF	25V				
C421	1-124-477-11	ELECT 47MF	20% 16V	D077	8-719-914-43	DIODE DAN202K	
C422	1-124-477-11	ELECT 47MF	20% 16V	D078	8-719-109-89	DIODE RD5.6ESB2	
C423	1-101-004-00	CERAMIC 0.01MF	50V	D079	8-719-109-89	DIODE RD5.6ESB2	
C424	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	D101	8-719-982-27	DIODE MTZJ-33C	
C425	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	D206	8-719-914-43	DIODE DAN202K	
C426	1-124-477-11	ELECT 47MF	20% 16V				
C427	1-164-346-11	CERAMIC CHIP 1MF	16V	D207	8-719-921-89	DIODE MTZJ-13C	
C428	1-164-346-11	CERAMIC CHIP 1MF	16V	D208	8-719-901-33	DIODE 1SS133	
C429	1-124-119-00	ELECT 330MF	20% 16V	D209	8-719-901-33	DIODE 1SS133	
C574	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	D210	8-719-901-33	DIODE 1SS133	
C575	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V	D211	8-719-901-33	DIODE 1SS133	
C576	1-163-075-00	CERAMIC CHIP 0.047MF	10% 25V	D212	8-719-901-33	DIODE 1SS133	
C581	1-163-031-11	CERAMIC CHIP 0.01MF	50V	D213	8-719-914-43	DIODE DAN202K	
C582	1-124-916-11	ELECT 22MF	20% 50V	D214	8-719-914-42	DIODE DA204K	
C583	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	D301	8-719-914-43	DIODE DAN202K	
C585	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D304	8-719-109-89	DIODE RD5.6ESB2	
C586	1-163-063-00	CERAMIC CHIP 0.022MF	10% 50V	D305	8-719-914-43	DIODE DAN202K	
C587	1-124-903-11	ELECT 1MF	20% 50V	D306	8-719-914-43	DIODE DAN202K	
C588	1-164-346-11	CERAMIC CHIP 1MF	16V	D307	8-719-914-43	DIODE DAN202K	
C589	1-124-478-11	ELECT 100MF	20% 25V	D308	8-719-914-42	DIODE DA204K	
C590	1-124-916-11	ELECT 22MF	20% 50V	D311	8-719-914-42	DIODE DA204K	
C591	1-124-925-11	ELECT 2.2MF	20% 50V	D312	8-719-914-44	DIODE DAP202K	
				D313	8-719-914-43	DIODE DAN202K	
				D314	8-719-914-43	DIODE DAN202K	

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The components identified by shading and marked * are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D381	8-719-110-03	DIODE RD7.5ESB2		Q206	8-729-216-22	TRANSISTOR 2SA1162-G	
D401	8-719-921-69	DIODE MTZJ9.1		Q207	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D403	8-719-921-69	DIODE MTZJ9.1		Q209	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D405	8-719-921-69	DIODE MTZJ9.1		Q210	8-729-920-74	TRANSISTOR 2SC2412K-QR	
D406	8-719-921-69	DIODE MTZJ9.1		Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
D407	8-719-921-69	DIODE MTZJ9.1		Q304	8-729-900-53	TRANSISTOR DTC114EK	
D571	8-719-914-42	DIODE DA204K		Q306	8-729-216-22	TRANSISTOR 2SA1162-G	
D681	8-719-921-75	DIODE MTZN-10B		Q308	8-729-216-22	TRANSISTOR 2SA1162-G	
D683	8-719-914-44	DIODE DAP202K		Q309	8-729-931-02	TRANSISTOR 2SC2413KQ	
	< IC >			Q311	8-729-901-06	TRANSISTOR DTA144EK	
IC072	8-759-184-27	IC ST24C16CB1		Q312	8-729-900-53	TRANSISTOR DTC114EK	
IC201	8-759-073-30	IC TDA6612 (KV-X2971A, X2971B, X2971D, X2973E, X2971K)		Q313	8-729-216-22	TRANSISTOR 2SA1162-G	
	8-759-073-31	IC TDA6622 (KV-X2972U)		Q314	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC202	8-759-502-21	IC TDA2822M		Q315	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC251	8-759-072-99	IC TDA2052		Q316	8-729-901-01	TRANSISTOR DTC144EK	
IC261	8-759-072-99	IC TDA2052		Q317	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC301	8-759-189-90	IC TDA9145/N2B		Q401	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC302	8-759-084-91	IC TDA4661/V2		Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC304	8-752-056-54	IC CXA1587S		Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC401	8-752-068-46	IC CXA1855S		Q581	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC402	8-759-073-00	IC TEA2114		Q582	8-729-216-22	TRANSISTOR 2SA1162-G	
IC681	8-759-072-98	IC TDA8138A		Q583	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC684	8-759-701-59	IC NJM78M09FA		Q610	8-729-140-97	TRANSISTOR 2SB734-34	
IC685	8-759-510-52	IC TEA7605		Q681	8-729-109-53	TRANSISTOR 2SD795A-P	
	< IF BLOCK >			Q682	8-729-900-53	TRANSISTOR DTC114EK	
IFB101	1-466-733-11	IF BLOCK (IFH-389) (KV-X2971D, X2973E, X2971K, X2971A)		JR102	1-216-295-00	METAL GLAZE 0 5% 1/10W	
	1-466-734-11	IF BLOCK (IFH-395) (KV-X2972U)		JR104	1-216-295-00	METAL GLAZE 0 5% 1/10W	
	1-466-735-11	IF BLOCK (IFH-389F) (KV-X2971B)		JR107	1-216-295-00	METAL GLAZE 0 5% 1/10W	
	< COIL >			JR109	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L101	1-412-546-41	INDUCTOR 560UH		JR110	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L102	1-408-413-00	INDUCTOR 22UH		JR111	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L201	1-407-500-00	INDUCTOR 4.7MMH		JR112	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L307	1-408-405-00	INDUCTOR 4.7UH		JR113	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L309	1-408-411-00	INDUCTOR 15UH		JR114	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L575	1-408-397-00	INDUCTOR 1UH		JR115	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L611	1-412-539-41	INDUCTOR 150UH		JR116	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L681	1-412-539-41	INDUCTOR 150UH		JR117	1-216-295-00	METAL GLAZE 0 5% 1/10W	
	< IC LINK >			JR118	1-216-295-00	METAL GLAZE 0 5% 1/10W	
PS681	1-532-605-91	LINK, IC 0.4A		JR119	1-216-295-00	METAL GLAZE 0 5% 1/10W	
PS682	1-532-605-91	LINK, IC 0.4A		JR120	1-216-295-00	METAL GLAZE 0 5% 1/10W	
	< TRANSISTOR >			JR121	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q071	8-729-901-05	TRANSISTOR DTA124EK		JR122	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q101	8-729-216-22	TRANSISTOR 2SA1162-G		JR123	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q102	8-729-901-00	TRANSISTOR DTC124EK		JR125	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q103	8-729-900-53	TRANSISTOR DTC114EK		JR126	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q201	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR127	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q202	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR128	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q203	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR129	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q204	8-729-216-22	TRANSISTOR 2SA1162-G		JR130	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q205	8-729-216-22	TRANSISTOR 2SA1162-G		JR131	1-216-295-00	METAL GLAZE 0 5% 1/10W	
				JR132	1-216-295-00	METAL GLAZE 0 5% 1/10W	
				JR133	1-216-295-00	METAL GLAZE 0 5% 1/10W	
				JR134	1-216-295-00	METAL GLAZE 0 5% 1/10W	
				JR135	1-216-295-00	METAL GLAZE 0 5% 1/10W	
				JR136	1-216-295-00	METAL GLAZE 0 5% 1/10W	
				JR137	1-216-295-00	METAL GLAZE 0 5% 1/10W	
				JR138	1-216-296-00	METAL GLAZE 0 5% 1/8W	
				JR139	1-216-295-00	METAL GLAZE 0 5% 1/10W	

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

< RESISTOR >

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
JR140	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR254	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR141	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR255	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR142	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR257	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR143	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR272	1-216-295-00	METAL GLAZE	0 5% 1/10W
JR144	1-216-295-00	METAL GLAZE	0 5% 1/10W	R071	1-216-041-00	METAL GLAZE	470 5% 1/10W
JR146	1-216-295-00	METAL GLAZE	0 5% 1/10W	R072	1-216-033-00	METAL GLAZE	220 5% 1/10W
JR149	1-216-295-00	METAL GLAZE	0 5% 1/10W	R073	1-216-033-00	METAL GLAZE	220 5% 1/10W
JR150	1-216-295-00	METAL GLAZE	0 5% 1/10W	R074	1-216-198-91	METAL GLAZE	1K 5% 1/8W
JR151	1-216-295-00	METAL GLAZE	0 5% 1/10W	R076	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR152	1-216-295-00	METAL GLAZE	0 5% 1/10W	R077	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR201	1-216-296-00	METAL GLAZE	0 5% 1/8W	R101	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR202	1-216-296-00	METAL GLAZE	0 5% 1/8W	R102	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR203	1-216-296-00	METAL GLAZE	0 5% 1/8W	R103	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
JR204	1-216-296-00	METAL GLAZE	0 5% 1/8W	R105	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR205	1-216-296-00	METAL GLAZE	0 5% 1/8W	R108	1-216-230-00	METAL GLAZE	22K 5% 1/8W
JR206	1-216-296-00	METAL GLAZE	0 5% 1/8W	R115	1-216-210-00	METAL GLAZE	3.3K 5% 1/8W
JR207	1-216-296-00	METAL GLAZE	0 5% 1/8W	R201	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
JR208	1-216-296-00	METAL GLAZE	0 5% 1/8W	R202	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
JR209	1-216-296-00	METAL GLAZE	0 5% 1/8W	R203	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
JR210	1-216-296-00	METAL GLAZE	0 5% 1/8W	R204	1-216-091-00	METAL GLAZE	56K 5% 1/10W
JR211	1-216-296-00	METAL GLAZE	0 5% 1/8W	R205	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
JR212	1-216-296-00	METAL GLAZE	0 5% 1/8W	R206	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
JR213	1-216-296-00	METAL GLAZE	0 5% 1/8W	R207	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR214	1-216-296-00	METAL GLAZE	0 5% 1/8W	R208	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR215	1-216-296-00	METAL GLAZE	0 5% 1/8W	R209	1-249-377-11	CARBON	0.47 5% 1/4W F
JR216	1-216-296-00	METAL GLAZE	0 5% 1/8W	R210	1-247-734-11	CARBON	39 5% 1/2W
JR217	1-216-296-00	METAL GLAZE	0 5% 1/8W	R211	1-247-734-11	CARBON	39 5% 1/2W
JR218	1-216-296-00	METAL GLAZE	0 5% 1/8W	R212	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR219	1-216-296-00	METAL GLAZE	0 5% 1/8W	R213	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR220	1-216-296-00	METAL GLAZE	0 5% 1/8W	R214	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR221	1-216-296-00	METAL GLAZE	0 5% 1/8W	R215	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR222	1-216-296-00	METAL GLAZE	0 5% 1/8W	R216	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR223	1-216-296-00	METAL GLAZE	0 5% 1/8W	R217	1-216-045-00	METAL GLAZE	680 5% 1/10W
JR224	1-216-296-00	METAL GLAZE	0 5% 1/8W	R218	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR225	1-216-296-00	METAL GLAZE	0 5% 1/8W	R221	1-212-849-00	FUSIBLE	4.7 5% 1/4W F
JR226	1-216-296-00	METAL GLAZE	0 5% 1/8W	R222	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR227	1-216-296-00	METAL GLAZE	0 5% 1/8W	R223	1-216-045-00	METAL GLAZE	680 5% 1/10W
JR228	1-216-296-00	METAL GLAZE	0 5% 1/8W	R224	1-249-433-11	CARBON	22K 5% 1/4W
JR229	1-216-296-00	METAL GLAZE	0 5% 1/8W	R225	1-212-849-00	FUSIBLE	4.7 5% 1/4W F
JR230	1-216-296-00	METAL GLAZE	0 5% 1/8W	R226	1-249-412-11	CARBON	390 5% 1/4W
JR231	1-216-296-00	METAL GLAZE	0 5% 1/8W	R227	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR232	1-216-296-00	METAL GLAZE	0 5% 1/8W	R228	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR233	1-216-296-00	METAL GLAZE	0 5% 1/8W	R229	1-216-039-00	METAL GLAZE	390 5% 1/10W
JR234	1-216-296-00	METAL GLAZE	0 5% 1/8W	R230	1-216-246-91	METAL GLAZE	100K 5% 1/8W
JR235	1-216-296-00	METAL GLAZE	0 5% 1/8W	R231	1-216-097-00	METAL GLAZE	100K 5% 1/10W
JR236	1-216-296-00	METAL GLAZE	0 5% 1/8W	R232	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR237	1-216-296-00	METAL GLAZE	0 5% 1/8W	R233	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
JR238	1-216-296-00	METAL GLAZE	0 5% 1/8W	R234	1-216-077-00	METAL GLAZE	15K 5% 1/10W
JR239	1-216-296-00	METAL GLAZE	0 5% 1/8W	R235	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR240	1-216-296-00	METAL GLAZE	0 5% 1/8W	R236	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR241	1-216-296-00	METAL GLAZE	0 5% 1/8W	R237	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR242	1-216-296-00	METAL GLAZE	0 5% 1/8W	R238	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR243	1-216-295-00	METAL GLAZE	0 5% 1/10W	R241	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR245	1-216-296-00	METAL GLAZE	0 5% 1/8W	R242	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W
JR247	1-216-296-00	METAL GLAZE	0 5% 1/8W	R244	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
JR248	1-216-296-00	METAL GLAZE	0 5% 1/8W	R245	1-216-089-91	METAL GLAZE	47K 5% 1/10W
JR250	1-216-296-00	METAL GLAZE	0 5% 1/8W	R246	1-216-097-00	METAL GLAZE	100K 5% 1/10W
JR251	1-216-296-00	METAL GLAZE	0 5% 1/8W	R247	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR252	1-216-296-00	METAL GLAZE	0 5% 1/8W	R248	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR253	1-216-296-00	METAL GLAZE	0 5% 1/8W				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R249	1-216-045-00	METAL GLAZE	680 5% 1/10W	R359	1-216-033-00	METAL GLAZE	220 5% 1/10W
R250	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R360	1-216-033-00	METAL GLAZE	220 5% 1/10W
R251	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R361	1-216-033-00	METAL GLAZE	220 5% 1/10W
R252	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R362	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R253	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R366	1-216-236-11	METAL GLAZE	39K 5% 1/8W
R254	1-216-252-00	METAL GLAZE	180K 5% 1/8W	R376	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R255	1-216-252-00	METAL GLAZE	180K 5% 1/8W	R377	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R256	1-249-409-11	CARBON	220 5% 1/4W	R378	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R257	1-249-409-11	CARBON	220 5% 1/4W	R379	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W
R258	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R380	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R259	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R381	1-216-164-00	METAL GLAZE	39 5% 1/8W
R260	1-216-212-00	METAL GLAZE	3.9K 5% 1/8W	R382	1-216-164-00	METAL GLAZE	39 5% 1/8W
R301	1-216-041-00	METAL GLAZE	470 5% 1/10W	R383	1-216-164-00	METAL GLAZE	39 5% 1/8W
R302	1-216-041-00	METAL GLAZE	470 5% 1/10W	R385	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R303	1-216-174-00	METAL GLAZE	100 5% 1/8W	R386	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R304	1-216-174-00	METAL GLAZE	100 5% 1/8W	R387	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R305	1-216-035-00	METAL GLAZE	270 5% 1/10W	R388	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R306	1-216-035-00	METAL GLAZE	270 5% 1/10W	R389	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R307	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R390	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R308	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R391	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R309	1-216-001-00	METAL GLAZE	10 5% 1/10W	R392	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R310	1-216-001-00	METAL GLAZE	10 5% 1/10W	R393	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R311	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R394	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R312	1-249-413-11	CARBON	470 5% 1/4W	R395	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R313	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R396	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R314	1-249-409-11	CARBON	220 5% 1/4W	R401	1-216-171-00	METAL GLAZE	75 5% 1/8W
R315	1-249-409-11	CARBON	220 5% 1/4W	R402	1-216-158-00	METAL GLAZE	22 5% 1/8W
R316	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R403	1-216-025-00	METAL GLAZE	100 5% 1/10W
R318	1-216-041-00	METAL GLAZE	470 5% 1/10W	R404	1-216-158-00	METAL GLAZE	22 5% 1/8W
R319	1-249-413-11	CARBON	470 5% 1/4W	R405	1-216-025-00	METAL GLAZE	100 5% 1/10W
R322	1-216-041-00	METAL GLAZE	470 5% 1/10W	R406	1-216-158-00	METAL GLAZE	22 5% 1/8W
R323	1-216-295-00	METAL GLAZE	0 5% 1/10W	R407	1-216-025-00	METAL GLAZE	100 5% 1/10W
R324	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R408	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R325	1-216-041-00	METAL GLAZE	470 5% 1/10W	R410	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R328	1-216-025-00	METAL GLAZE	100 5% 1/10W	R411	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R329	1-216-023-00	METAL GLAZE	82 5% 1/10W	R412	1-216-022-00	METAL GLAZE	75 5% 1/10W
R330	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R413	1-216-022-00	METAL GLAZE	75 5% 1/10W
R331	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R414	1-216-022-00	METAL GLAZE	75 5% 1/10W
R332	1-216-182-91	METAL GLAZE	220 5% 1/8W	R416	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R333	1-216-182-91	METAL GLAZE	220 5% 1/8W	R417	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R334	1-216-182-91	METAL GLAZE	220 5% 1/8W	R419	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R336	1-216-029-00	METAL GLAZE	150 5% 1/10W	R420	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R337	1-216-041-00	METAL GLAZE	470 5% 1/10W	R424	1-216-025-00	METAL GLAZE	100 5% 1/10W
R338	1-216-035-00	METAL GLAZE	270 5% 1/10W	R425	1-216-025-00	METAL GLAZE	100 5% 1/10W
R339	1-216-025-00	METAL GLAZE	100 5% 1/10W	R428	1-249-393-11	CARBON	10 5% 1/4W F
R340	1-216-025-00	METAL GLAZE	100 5% 1/10W	R574	1-216-041-00	METAL GLAZE	470 5% 1/10W
R341	1-216-025-00	METAL GLAZE	100 5% 1/10W	R575	1-216-186-00	METAL GLAZE	330 5% 1/8W
R342	1-216-033-00	METAL GLAZE	220 5% 1/10W	R577	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R343	1-216-022-00	METAL GLAZE	75 5% 1/10W	R578	1-216-238-91	METAL GLAZE	47K 5% 1/8W
R344	1-216-022-00	METAL GLAZE	75 5% 1/10W	R580	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R345	1-216-171-00	METAL GLAZE	75 5% 1/8W	R581	1-216-033-00	METAL GLAZE	220 5% 1/10W
R346	1-216-022-00	METAL GLAZE	75 5% 1/10W	R582	1-216-037-00	METAL GLAZE	330 5% 1/10W
R347	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R583	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R351	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R584	1-216-039-00	METAL GLAZE	390 5% 1/10W
R352	1-216-033-00	METAL GLAZE	220 5% 1/10W	R585	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R354	1-216-033-00	METAL GLAZE	220 5% 1/10W	R586	1-216-047-00	METAL GLAZE	820 5% 1/10W
R355	1-216-033-00	METAL GLAZE	220 5% 1/10W	R587	1-216-047-00	METAL GLAZE	820 5% 1/10W
R356	1-216-033-00	METAL GLAZE	220 5% 1/10W	R588	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R357	1-216-041-00	METAL GLAZE	470 5% 1/10W	R589	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R358	1-216-031-00	METAL GLAZE	180 5% 1/10W	R590	1-216-049-00	METAL GLAZE	1K 5% 1/10W

A **IF** (KV-X2971A/X2971D/
 KV-X2973E/X2971K)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R591	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C154	1-164-337-11	CERAMIC CHIP 2.2MF	16V
R592	1-216-232-00	METAL GLAZE 27K 5%	1/8W	C155	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V
R593	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W	C156	1-124-477-11	ELECT 47MF	20% 16V
R594	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	C161	1-164-117-00	CERAMIC CHIP 100PF	5% 50V
R595	1-216-643-11	METAL CHIP 470 0.50%	1/10W	C162	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R595	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	C163	1-164-346-11	CERAMIC CHIP 1MF	16V
R597	1-216-230-00	METAL GLAZE 22K 5%	1/8W	C164	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R598	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W	C165	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V
R600	1-216-174-00	METAL GLAZE 100 5%	1/8W	C166	1-124-477-11	ELECT 47MF	20% 16V
R616	1-216-194-00	METAL GLAZE 270 5%	1/8W	C167	1-163-213-00	CERAMIC CHIP 0.0022MF	5% 50V
R619	1-216-077-00	METAL GLAZE 15K 5%	1/10W	C168	1-164-346-11	CERAMIC CHIP 1MF	16V
R628	1-249-413-11	CARBON 470 5%	1/4W	C170	1-124-477-11	ELECT 47MF	20% 16V
R632	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C171	1-124-477-11	ELECT 47MF	20% 16V
R681	1-216-541-00	METAL OXIDE 4.3 5%	3W F	C173	1-124-477-11	ELECT 47MF	20% 16V
R682	1-249-415-11	CARBON 680 5%	1/4W				
R683	1-216-073-00	METAL GLAZE 10K 5%	1/10W			< FILTER >	
R2219	1-216-174-00	METAL GLAZE 100 5%	1/8W	CF2	1-527-839-00	FILTER, CERAMIC	
R2220	1-216-174-00	METAL GLAZE 100 5%	1/8W	CF3	1-527-840-00	FILTER, CERAMIC	
R2221	1-216-174-00	METAL GLAZE 100 5%	1/8W	CF4	1-567-570-00	FILTER, CERAMIC	
R2222	1-216-174-00	METAL GLAZE 100 5%	1/8W	SWF1	1-579-658-11	FILTER, SAWTOOTH WAVE	
		< TUNER >				< CONNECTOR >	
TU101	1-693-185-11	TUNER (UV-916H) (KV-X2971A, X2971B, X2971D, X2973E, X2971K)		CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P	
	1-693-184-11	TUNER (U944C) (KV-X2972U)		CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P	
		< CRYSTAL >				< TRIMMER >	
X301	1-567-504-11	OSCILLATOR, CRYSTAL		CT1	1-404-801-11	TRAP, CERAMIC	
X302	1-567-505-11	OSCILLATOR, CRYSTAL				< DIODE >	
		*****		D161	8-719-400-18	DIODE MA152WK	
		1-466-733-11	IF BLOCK (IFH-389) (KV-X2971A, X2971D, ***** X2971K, X2973E)			< IC >	
		< CAPACITOR >		IC1	8-759-070-76	IC M52308SP	
C101	1-163-121-00	CERAMIC CHIP 150PF 5%	50V	IC2	8-759-070-71	IC TDA9820	
C102	1-164-222-11	CERAMIC CHIP 0.22MF	25V	IC3	8-759-514-54	IC BA7046	
C103	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V			< COIL >	
C104	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V	L101	1-408-421-00	INDUCTOR 100UH	
C105	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L102	1-408-419-00	INDUCTOR 68UH	
C106	1-124-477-11	ELECT 47MF 20%	16V	L103	1-408-419-00	INDUCTOR 68UH	
C107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L104	1-408-408-00	INDUCTOR 8.2UH	
C108	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L121	1-408-413-00	INDUCTOR 22UH	
C109	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V	L122	1-408-420-00	INDUCTOR 82UH	
C112	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L142	1-408-790-00	INDUCTOR 0.56UH	
C113	1-164-101-00	CERAMIC CHIP 22PF	5% 50V	L151	1-408-419-00	INDUCTOR 68UH	
C114	1-124-477-11	ELECT 47MF 20%	16V	L161	1-408-419-00	INDUCTOR 68UH	
C115	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V			< TRANSISTOR >	
C116	1-164-346-11	CERAMIC CHIP 1MF	16V	Q101	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C118	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q102	8-729-216-22	TRANSISTOR 2SA1162-G	
C119	1-163-369-11	CERAMIC CHIP 47PFF	5% 25V	Q121	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C121	1-163-235-11	CERAMOC CHIP 22PF	5% 50V	Q122	8-729-216-22	TRANSISTOR 2SA1162-G	
C122	1-164-239-11	CERAMIC CHIP 33PF	5% 50V	Q161	8-729-216-22	TRANSISTOR 2SA1162-G	
C123	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	Q170	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q171	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C130	1-216-295-00	METAL GLAZE 0 5%	1/10W	Q172	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C131	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	Q173	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C133	1-124-477-11	ELECT 47MF 20%	16V			< RESISTOR >	
C152	1-164-337-11	CERAMIC CHIP 2.2MF	16V	JR2	1-216-295-00	METAL GLAZE 0 5%	1/10W
C153	1-164-337-11	CERAMIC CHIP 2.2MF	16V				

IF (KV-X2972U)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C167	1-163-213-00	CERAMIC CHIP 0.0022MF	5% 50V	JR20	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C168	1-164-346-11	CERAMIC CHIP 1MF	15V	JR21	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C170	1-124-477-11	ELECT 47MF	20% 16V	JR23	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C171	1-124-477-11	ELECT 47MF	20% 16V	JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C173	1-124-477-11	ELECT 47MF	20% 15V	JR25	1-216-296-00	METAL GLAZE 0 5% 1/3W	
< FILTER >				JR29	1-216-296-00	METAL GLAZE 0 5% 1/8W	
CD1	1-579-657-21	DISCRIMINATOR, CERAMIC		JR30	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CF1	1-567-569-11	FILTER, CERAMIC		JR33	1-216-295-00	METAL GLAZE 0 5% 1/10W	
SWF1	1-579-659-11	FILTER, SAWTOOTH WAVE		JR38	1-216-296-00	METAL GLAZE 0 5% 1/8W	
< CONNECTOR >				JR39	1-216-296-00	METAL GLAZE 0 5% 1/8W	
CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P		JR40	1-216-296-00	METAL GLAZE 0 5% 1/8W	
CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P		JR41	1-216-295-00	METAL GLAZE 0 5% 1/10W	
< TRIMMER >				JR42	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CT1	1-409-333-00	TRAP, CERAMIC (6.0MHZ)		JR101	1-216-295-00	METAL GLAZE 0 5% 1/10W	
< DIODE >				R101	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
D161	8-719-400-18	DIODE MA152WK		R102	1-216-045-00	METAL GLAZE 680 5% 1/10W	
< IC >				R103	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
IC1	8-759-070-76	IC M52309SP		R104	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
IC3	8-759-514-54	IC BA7046		R105	1-216-043-00	METAL GLAZE 560 5% 1/10W	
< COIL >				R106	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
L101	1-408-414-00	INDUCTOR 27UH		R107	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
L102	1-408-419-00	INDUCTOR 68UH		R108	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
L103	1-408-419-00	INDUCTOR 68UH		R110	1-216-041-00	METAL GLAZE 470 5% 1/10W	
L104	1-408-406-00	INDUCTOR 5.6UH		R112	1-216-045-00	METAL GLAZE 680 5% 1/10W	
L105	1-408-410-00	INDUCTOR 12UH		R113	1-216-031-00	METAL GLAZE 180 5% 1/10W	
L142	1-408-790-41	INDUCTOR 0.56UH		R114	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
L161	1-408-419-00	INDUCTOR 68UH		R115	1-216-031-00	METAL GLAZE 180 5% 1/10W	
< TRANSISTOR >				R116	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
Q101	8-729-920-74	TRANSISTOR 2SC2412X-QR		R117	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
Q102	8-729-216-22	TRANSISTOR 2SA1162-G		R118	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
Q122	8-729-216-22	TRANSISTOR 2SA1162-G		R119	1-216-240-00	METAL GLAZE 56K 5% 1/8W	
Q151	8-729-216-22	TRANSISTOR 2SA1162-G		R120	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
Q172	8-729-920-74	TRANSISTOR 2SC2412X-QR		R121	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
Q173	8-729-920-74	TRANSISTOR 2SC2412X-QR		R122	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
< RESISTOR >				R123	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W		R130	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR2	1-216-295-00	METAL GLAZE 0 5% 1/10W		R131	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W		R132	1-216-059-00	METAL GLAZE 6.8K 5% 1/10W	
JR4	1-216-295-00	METAL GLAZE 0 5% 1/10W		R133	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
JR7	1-216-295-00	METAL GLAZE 0 5% 1/10W		R134	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR8	1-216-295-00	METAL GLAZE 0 5% 1/10W		R135	1-216-198-00	METAL GLAZE 1K 5% 1/8W	
JR9	1-216-296-00	METAL GLAZE 0 5% 1/8W		R153	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR10	1-216-296-00	METAL GLAZE 0 5% 1/8W		R159	1-216-107-00	METAL GLAZE 270K 5% 1/10W	
JR11	1-216-296-00	METAL GLAZE 0 5% 1/8W		R160	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR12	1-216-296-00	METAL GLAZE 0 5% 1/8W		R161	1-216-755-11	METAL CHIP 130K 0.50% 1/10W	
JR13	1-153-093-00	CERAMIC CHIP 10PF 5% 50V		R162	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W		R163	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
JR16	1-216-295-00	METAL GLAZE 0 5% 1/10W		R164	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
JR18	1-216-295-00	METAL GLAZE 0 5% 1/10W		R165	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
JR19	1-216-296-00	METAL GLAZE 0 5% 1/8W		R166	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R167	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
				R168	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
				R169	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R175	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
				R176	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
				R177	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
				R178	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
				R179	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
				R181	1-216-037-00	METAL GLAZE 330 5% 1/10W	

IF (KV-X2972U)

IF (KV-X2971B)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< VARIABLE RESISTOR >							
RV1	1-241-121-11	RES, ADJ, CARBON 4.7K		C105	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
< TRANSFORMER >				C106	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
T4	1-416-017-21	COIL		C119	1-163-369-11	CERAMIC CHIP 47PFF	5% 25V
T5	1-416-018-21	COIL		C121	1-126-176-11	ELECT 220MF	20% 10V
*****				C122	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
1-466-735-11	IF BLOCK (IFH-389F) (KV-X2971B)			C131	1-126-099-11	ELECT 2.2MF	20% 35V
*****				< FILTER >			
< CAPACITOR >				CF1	1-527-839-00	FILTER, CERAMIC	
C1	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	CF2	1-567-569-11	FILTER, CERAMIC	
C2	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	CF3	1-527-840-00	FILTER, CERAMIC	
C3	1-124-903-11	ELECT 1MF	20% 50V	CF4	1-567-570-11	FILTER, CERAMIC	
C4	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	SWF1	1-579-662-11	FILTER, SURFACE WAVE	
C5	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	SWF3	1-404-711-11	SAWF	
C6	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	SWF4	1-579-660-11	FILTER, SAWTOOTH WAVE	
C7	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	< CONNECTOR >			
C8	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD)	10P
C9	1-124-916-11	ELECT 22MF	20% 25V	CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD)	10P
C10	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	< TRIMMER >			
C11	1-124-477-11	ELECT 47MF	20% 16V	CT1	1-404-801-11	TRAP, CERAMIC	
C13	1-163-059-00	CERAMIC CHIP 0.01MF	10% 50V	CT2	1-409-429-11	TRAP, CERAMIC	
C14	1-124-477-11	ELECT 47MF	20% 16V	CV1	1-141-245-00	CAP, TRIMMER	
C15	1-124-903-11	ELECT 1MF	20% 50V	CV1	1-141-245-00	CAP, TRIMMER	
C16	1-163-051-00	CERAMIC CHIP 0.015MF	10% 50V	CV3	1-141-304-21	TRIMMER, CERAMIC	
C17	1-162-638-11	CERAMIC CHIP 1MF	16V	< DIODE >			
C18	1-162-638-11	CERAMIC CHIP 1MF	16V	D7	8-719-421-57	DIODE MA73-TX	
C19	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	D8	8-719-421-57	DIODE MA73-TX	
C20	1-124-902-00	ELECT 0.47MF	20% 50V	D9	8-719-421-57	DIODE MA73-TX	
C21	1-124-903-11	ELECT 1MF	20% 50V	< IC >			
C22	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	IC1	8-759-070-75	IC M52312SP	
C23	1-124-902-00	ELECT 0.47MF	20% 50V	IC2	8-759-070-71	IC TDA9820	
C24	1-164-506-11	CERAMIC CHIP 4.7MF	16V	IC3	8-759-979-62	IC PCF8574	
C25	1-124-477-11	ELECT 47MF	20% 16V	< COIL >			
C26	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	L1	1-408-419-00	INDUCTOR 68UH	
C27	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	L2	1-408-419-00	INDUCTOR 68UH	
C28	1-124-477-11	ELECT 47MF	20% 16V	L3	1-408-407-00	INDUCTOR 6.8UH	
C33	1-124-907-11	ELECT 10MF	20% 50V	L4	1-408-419-00	INDUCTOR 68UH	
C34	1-124-907-11	ELECT 10MF	20% 50V	L5	1-408-419-00	INDUCTOR 68UH	
C35	1-124-925-11	ELECT 2.2MF	20% 50V	L7	1-408-406-00	INDUCTOR 5.6UH	
C36	1-124-477-11	ELECT 47MF	20% 16V	L9	1-408-419-00	INDUCTOR 68UH	
C37	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	L71	1-408-419-00	INDUCTOR 68UH	
C38	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	L101	1-408-399-00	INDUCTOR 1.5UH	
C40	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	L121	1-408-407-00	INDUCTOR 6.8UH	
C71	1-124-477-11	ELECT 47MF	20% 16V	< TRANSISTOR >			
C72	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q1	8-729-907-06	TRANSISTOR BF199-AMMO	
C80	1-124-477-11	ELECT 47MF	20% 16V	Q4	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C83	1-124-477-11	ELECT 47MF	20% 16V	Q5	8-729-115-10	TRANSISTOR 2SX105A-10	
C84	1-124-477-11	ELECT 47MF	20% 16V	Q6	8-729-900-52	TRANSISTOR DTC114YX	
C85	1-124-477-11	ELECT 47MF	20% 16V	Q7	8-729-216-22	TRANSISTOR 2SA1162-G	
C86	1-124-477-11	ELECT 47MF	20% 16V	Q8	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C87	1-124-477-11	ELECT 47MF	20% 16V	Q10	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C91	1-163-229-11	CERAMIC CHIP 12PF	5% 50V	Q11	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C95	1-164-337-11	CERAMIC CHIP 2.2MF	16V	Q12	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C101	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	Q13	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C102	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V				
C104	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V				

IF (KV-X2971B)

M2

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q14	8-729-920-74	TRANSISTOR 2SC2412K-QR		R76	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q15	8-729-920-74	TRANSISTOR 2SC2412K-QR		R77	1-216-174-00	METAL GLAZE 100 5%	1/8W
Q16	8-729-216-22	TRANSISTOR 2SA1162-G		R81	1-216-095-00	METAL GLAZE 82K 5%	1/10W
Q101	8-729-104-80	TRANSISTOR 2SC3355		R82	1-216-121-00	METAL GLAZE 1M 5%	1/10W
Q121	8-729-920-74	TRANSISTOR 2SC2412K-QR		R83	1-216-025-00	METAL GLAZE 100 5%	1/10W
< RESISTOR >				R84	1-216-085-00	METAL GLAZE 33K 5%	1/10W
JR2	1-216-295-00	METAL GLAZE 0 5%	1/10W	R85	1-216-085-00	METAL GLAZE 33K 5%	1/10W
JR3	1-216-296-00	METAL GLAZE 0 5%	1/8W	R86	1-216-689-00	METAL GLAZE 39K 5%	1/10W
JR5	1-216-296-00	METAL GLAZE 0 5%	1/8W	R87	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R1	1-216-025-00	METAL GLAZE 100 5%	1/10W	R88	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R2	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R89	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R3	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R90	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R4	1-216-041-00	METAL GLAZE 470 5%	1/10W	R91	1-216-295-00	METAL GLAZE 0 5%	1/10W
R5	1-216-021-00	METAL GLAZE 68 5%	1/10W	R92	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R6	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W	R93	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R8	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	R94	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R9	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	R95	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R10	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W	R96	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R11	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W	R97	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R24	1-216-280-00	METAL GLAZE 2.7M 5%	1/8W	R98	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R25	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R99	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R26	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R100	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R27	1-216-266-00	METAL GLAZE 680K 5%	1/8W	R102	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R28	1-216-075-00	METAL GLAZE 12K 5%	1/10W	R103	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
R29	1-216-035-00	METAL GLAZE 270 5%	1/10W	R104	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R30	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R105	1-216-033-00	METAL GLAZE 220 5%	1/10W
R31	1-216-017-00	METAL GLAZE 47 5%	1/10W	R121	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R32	1-216-043-00	METAL GLAZE 560 5%	1/10W	R122	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R33	1-216-037-00	METAL GLAZE 330 5%	1/10W	R123	1-216-041-00	METAL GLAZE 470 5%	1/10W
R34	1-216-252-00	METAL GLAZE 180K 5%	1/8W	R124	1-216-041-00	METAL GLAZE 470 5%	1/10W
R35	1-216-035-00	METAL GLAZE 270 5%	1/10W	R125	1-216-041-00	METAL GLAZE 470 5%	1/10W
R36	1-216-029-00	METAL GLAZE 150 5%	1/10W	R301	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R37	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R302	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R38	1-216-099-00	METAL GLAZE 120K 5%	1/10W	R303	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R39	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R304	1-216-037-00	METAL GLAZE 330 5%	1/10W
R40	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R305	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R42	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R306	1-216-025-00	METAL GLAZE 100 5%	1/10W
R43	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	R307	1-216-037-00	METAL GLAZE 330 5%	1/10W
R44	1-216-027-00	METAL GLAZE 120 5%	1/10W	R308	1-216-037-00	METAL GLAZE 330 5%	1/10W
R45	1-216-041-00	METAL GLAZE 470 5%	1/10W	< VARIABLE RESISTOR >			
R46	1-216-031-00	METAL GLAZE 180 5%	1/10W	RV2	1-241-120-11	RES, ADJ, CARBON 2.2K	
R47	1-216-075-00	METAL GLAZE 12K 5%	1/10W	< TRANSFORMER >			
R48	1-216-081-00	METAL GLAZE 22K 5%	1/10W	T1	1-404-806-21	COIL	
R49	1-216-049-00	METAL GLAZE 1K 5%	1/10W	T3	1-416-012-11	COIL	
R53	1-216-082-00	METAL GLAZE 24K 5%	1/10W	T4	1-416-012-11	COIL	
R54	1-216-043-00	METAL GLAZE 560 5%	1/10W	T5	1-402-720-11	COIL	
R55	1-216-043-00	METAL GLAZE 560 5%	1/10W	< CRYSTAL >			
R56	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	X1	1-579-648-21	VIBRATOR, CERAMIC	
R57	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	*****			
R58	1-216-041-00	METAL GLAZE 470 5%	1/10W	*A-1635-015-A M2 BOARD, COMPLETE			
R59	1-216-043-00	METAL GLAZE 560 5%	1/10W	*****			
R60	1-216-043-00	METAL GLAZE 560 5%	1/10W	< CAPACITOR >			
R61	1-216-295-00	METAL GLAZE 0 5%	1/10W	C001	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R63	1-216-043-00	METAL GLAZE 560 5%	1/10W	C002	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R71	1-216-079-00	METAL GLAZE 18K 5%	1/10W	C003	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R72	1-216-079-00	METAL GLAZE 18K 5%	1/10W				
R73	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
R74	1-216-079-00	METAL GLAZE 18K 5%	1/10W				
R75	1-216-079-00	METAL GLAZE 18K 5%	1/10W				

M2

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C004	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C2020	1-164-222-11	CERAMIC CHIP 0.22MF	25V
C007	1-163-117-00	CERAMIC CHIP 100PF	5%	C2021	1-163-113-00	CERAMIC CHIP 68PF	5%
C008	1-163-117-00	CERAMIC CHIP 100PF	5%				
C010	1-163-117-00	CERAMIC CHIP 100PF	5%	C2023	1-124-907-11	ELECT 10MF	20%
C011	1-163-117-00	CERAMIC CHIP 100PF	5%	C2024	1-163-117-00	CERAMIC CHIP 100PF	5%
C012	1-163-117-00	CERAMIC CHIP 100PF	5%	C2025	1-163-117-00	CERAMIC CHIP 100PF	5%
C014	1-163-117-00	CERAMIC CHIP 100PF	5%	C2027	1-164-222-11	CERAMIC CHIP 0.22MF	25V
						< FILTER >	
C016	1-163-141-00	CERAMIC CHIP 0.001MF	5%				
C017	1-164-222-11	CERAMIC CHIP 0.22MF	25V	CD001	1-579-126-11	VIBRATOR, CERAMIC	
C018	1-164-505-11	CERAMIC CHIP 2.2MF	16V			< CONNECTOR >	
C019	1-124-916-11	ELECT 22MF	20%				
C020	1-163-117-00	CERAMIC CHIP 100PF	5%				
C021	1-164-004-11	CERAMIC CHIP 0.1MF	10%	CN1413	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C022	1-164-004-11	CERAMIC CHIP 0.1MF	10%	CN1426	*1-568-881-51	PIN, CONNECTOR 6P	
C023	1-164-004-11	CERAMIC CHIP 0.1MF	10%	CN1432	*1-568-882-51	PIN, CONNECTOR 7P	
C024	1-164-004-11	CERAMIC CHIP 0.1MF	10%	CN1435	*1-568-882-51	PIN, CONNECTOR 7P	
C025	1-164-222-11	CERAMIC CHIP 0.22MF	25V			< DIODE >	
C026	1-164-222-11	CERAMIC CHIP 0.22MF	25V	D001	8-719-027-82	DIODE MA3039H-TX	
C032	1-163-117-00	CERAMIC CHIP 100PF	5%	D2001	8-719-036-58	DIODE MA3030-H(TX)	
C035	1-163-033-00	CERAMIC CHIP 0.022MF	50V	D2002	8-719-401-31	DIODE MA3047L-TX	
C036	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D2003	8-719-914-44	DIODE DAP202K	
C037	1-163-117-00	CERAMIC CHIP 100PF	5%	D2007	8-719-914-44	DIODE DAP202K	
						< IC >	
C039	1-163-011-11	CERAMIC CHIP 0.0015MF	10%				
C042	1-162-638-11	CERAMIC CHIP 1MF	16V	IC001	8-759-168-52	IC SDA30C162-GEG	
C044	1-163-117-00	CERAMIC CHIP 100PF	5%	IC002	8-759-167-62	IC TMS27PC010A-15FML	
C522	1-163-141-00	CERAMIC CHIP 0.001MF	5%		1-750-797-11	SOCKET, PLCC (IC002)	
C523	1-163-141-00	CERAMIC CHIP 0.001MF	5%	IC561	8-752-347-92	IC CXD2018Q	
C524	1-163-113-00	CERAMIC CHIP 68PF	5%	IC562	8-759-998-98	IC LM358D	
C525	1-164-222-11	CERAMIC CHIP 0.22MF	25V				
C528	1-163-105-00	CERAMIC CHIP 33PF	5%	IC563	8-759-708-05	IC NJM78L05A	
C529	1-163-169-00	CERAMIC CHIP 33PF	5%	IC2003	8-759-188-60	IC MB81C4256A-70PSZG	
C541	1-164-232-11	CERAMIC CHIP 0.01MF	10%			< COIL >	
C542	1-163-037-11	CERAMIC CHIP 0.0022MF	10%				
C543	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	L001	1-408-421-00	INDUCTOR 100UH	
C544	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	L561	1-408-409-00	INDUCTOR 10UH	
C546	1-164-004-11	CERAMIC CHIP 0.1MF	10%	L562	1-408-409-00	INDUCTOR 10UH	
C547	1-163-020-00	CERAMIC CHIP 0.0082MF	10%	L563	1-408-947-00	INDUCTOR 2.2MMH	
C549	1-163-989-11	CERAMIC CHIP 0.033MF	10%	L2001	1-410-674-31	INDUCTOR 82UH	
C550	1-163-141-00	CERAMIC CHIP 0.001MF	5%			< TRANSISTOR >	
C559	1-164-004-11	CERAMIC CHIP 0.1MF	10%				
C560	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	Q002	8-729-216-22	TRANSISTOR 2SA1162-G	
C563	1-163-031-11	CERAMIC CHIP 0.01MF	50V	Q003	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C564	1-163-031-11	CERAMIC CHIP 0.01MF	50V	Q564	8-729-216-22	TRANSISTOR 2SA1162-G	
C565	1-163-031-11	CERAMIC CHIP 0.01MF	50V	Q565	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C566	1-163-031-11	CERAMIC CHIP 0.01MF	50V	Q566	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C567	1-163-009-11	CERAMIC CHIP 0.001MF	10%				
C568	1-163-009-11	CERAMIC CHIP 0.001MF	10%	Q567	8-729-901-01	TRANSISTOR DTC144EK	
C569	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	Q2001	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C570	1-162-568-11	CERAMIC CHIP 0.33MF	10%	Q2002	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C2001	1-163-235-11	CERAMIC CHIP 22PF	5%	Q2003	8-729-216-22	TRANSISTOR 2SA1162-G	
C2002	1-163-235-11	CERAMIC CHIP 22PF	5%	Q2004	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C2004	1-164-222-11	CERAMIC CHIP 0.22MF	25V	Q2005	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C2005	1-163-038-00	CERAMIC CHIP 0.1MF	25V	Q2006	8-729-901-01	TRANSISTOR DTC144EK-T146	
C2006	1-163-038-00	CERAMIC CHIP 0.1MF	25V	Q2009	8-729-901-00	TRANSISTOR DTC124EK-T146	
C2008	1-164-222-11	CERAMIC CHIP 0.22MF	25V			< RESISTOR >	
C2009	1-163-105-00	CERAMIC CHIP 33PF	5%	JR552	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C2016	1-164-222-11	CERAMIC CHIP 0.22MF	25V	JR553	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C2017	1-164-222-11	CERAMIC CHIP 0.22MF	25V	JR555	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C2018	1-164-505-11	CERAMIC CHIP 2.2MF	16V				
C2019	1-124-916-11	ELECT 22MF	20%	R001	1-216-025-00	METAL GLAZE 100 5% 1/10W	
				R002	1-216-025-00	METAL GLAZE 100 5% 1/10W	

The components identified by shading and marked ! are critical for safety.
Replace only with the part number specified.

C **D5**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< DIODE >				R720	1-249-417-11	CARBON 1K 5%	1/4W F
D701	8-719-901-33	DIODE 1SS133		R722	1-247-713-11	CARBON 1K 5%	1/4W F
D702	8-719-901-33	DIODE 1SS133		R724	1-249-417-11	CARBON 1K 5%	1/4W F
D703	8-719-901-33	DIODE 1SS133		R725	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
D704	8-719-901-33	DIODE 1SS133		R726	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
D705	8-719-901-33	DIODE 1SS133		R727	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
D706	8-719-901-33	DIODE 1SS133		R728	1-216-037-00	METAL GLAZE 330 5%	1/10W
D707	8-719-901-33	DIODE 1SS133		R729	1-216-037-00	METAL GLAZE 330 5%	1/10W
D708	8-719-901-33	DIODE 1SS133		R730	1-216-037-00	METAL GLAZE 330 5%	1/10W
D709	8-719-901-33	DIODE 1SS133		R731	1-216-017-00	METAL GLAZE 47 5%	1/10W
D710	8-719-901-33	DIODE 1SS133		R732	1-216-017-00	METAL GLAZE 47 5%	1/10W
D713	8-719-908-03	DIODE GP08D		R733	1-216-017-00	METAL GLAZE 47 5%	1/10W
< JACK >				R734	1-202-549-00	SOLID 100 20%	1/2W
J701	1-526-990-21	SOCKET, CRT		R735	1-216-049-00	METAL GLAZE 1K 5%	1/10W
< COIL >				R738	1-216-025-00	METAL GLAZE 100 5%	1/10W
L701	1-410-667-31	INDUCTOR 22UH		R739	1-216-025-00	METAL GLAZE 100 5%	1/10W
L703	1-408-609-41	INDUCTOR 33UH		R740	1-216-025-00	METAL GLAZE 100 5%	1/10W
L705	1-408-609-41	INDUCTOR 33UH		R741	1-216-089-91	METAL GLAZE 47K 5%	1/10W
L707	1-408-609-41	INDUCTOR 33UH		R742	1-216-029-00	METAL GLAZE 150 5%	1/10W
< TRANSISTOR >				R743	1-249-434-11	CARBON 27K 5%	1/4W
Q701	8-729-906-70	TRANSISTOR BF871		R747	1-216-489-11	METAL OXIDE 27K 5%	3W F
Q702	8-729-906-70	TRANSISTOR BF871		R749	1-216-490-11	METAL OXIDE 39K 5%	3W F
Q703	8-729-906-70	TRANSISTOR BF871		R751	1-215-926-00	METAL OXIDE 33K 5%	3W F
Q704	8-729-906-70	TRANSISTOR BF871		R753	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q705	8-729-906-70	TRANSISTOR BF871		R758	1-249-419-11	CARBON 1.5K 5%	1/4W
Q706	8-729-906-70	TRANSISTOR BF871		R759	1-249-419-11	CARBON 1.5K 5%	1/4W
Q707	8-729-200-17	TRANSISTOR 2SA1091-0		R760	1-249-419-11	CARBON 1.5K 5%	1/4W
Q708	8-729-200-17	TRANSISTOR 2SA1091-0		< VARIABLE RESISTOR >			
Q709	8-729-200-17	TRANSISTOR 2SA1091-0		RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
Q710	8-729-920-74	TRANSISTOR 2SC2412K-QR		RV702	1-241-656-11	RES, ADJ, METAL FILM 110M	
Q711	8-729-920-74	TRANSISTOR 2SC2412K-QR		*****			
Q712	8-729-920-74	TRANSISTOR 2SC2412K-QR		*A-1640-109-A D5 BOARD, COMPLETE			
Q713	8-729-216-22	TRANSISTOR 2SA1162-G		*****			
Q714	8-729-255-12	TRANSISTOR 2SC2551-0		< CAPACITOR >			
< RESISTOR >				C803	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
JR701	1-216-295-00	METAL GLAZE 0 5%	1/8W	C804	1-136-161-00	FILM 0.047MF	5% 50V
JR703	1-216-296-00	METAL GLAZE 0 5%	1/8W	C806	1-124-907-11	ELECT 10MF	20% 50V
R701	1-202-848-00	SOLID 680K 10%	1/2W	C807	1-106-383-00	MYLAR 0.047MF	10% 100V
R702	1-202-838-00	SOLID 100K 20%	1/2W	C823	1-136-177-00	FILM 1MF	5% 50V
R703	1-202-838-00	SOLID 100K 20%	1/2W	C827	1-136-177-00	FILM 1MF	5% 50V
R704	1-202-842-11	SOLID 220K 10%	1/2W	C847	1-164-337-11	CERAMIC CHIP 2.2MF	16V
R705	1-216-398-11	METAL OXIDE 5.6 5%	3W F	C852	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
R706	1-216-398-11	METAL OXIDE 5.6 5%	3W F	C853	1-124-477-11	ELECT 47MF	20% 25V
R707	1-249-421-11	CARBON 2.2K 5%	1/4W	C857	1-124-902-00	ELECT 0.47MF	20% 50V
R708	1-249-421-11	CARBON 2.2K 5%	1/4W	C861	1-130-777-00	FILM 0.1MF	5% 63V
R709	1-249-421-11	CARBON 2.2K 5%	1/4W	C866	1-137-364-11	FILM 0.001MF	5% 50V
R710	1-215-899-11	METAL OXIDE 15K 5%	2W F	C870	1-137-364-11	FILM 0.001MF	5% 50V
R711	1-202-820-11	SOLID 1.5K 20%	1/2W	C871	1-130-651-00	FILM 0.001MF	2% 100V
R712	1-215-899-11	METAL OXIDE 15K 5%	2W F	C872	1-124-907-11	ELECT 10MF	20% 50V
R713	1-202-820-11	SOLID 1.5K 20%	1/2W	C873	1-137-364-11	FILM 0.001MF	5% 50V
R714	1-215-899-11	METAL OXIDE 15K 5%	2W F	< CONNECTOR >			
R715	1-202-820-11	SOLID 1.5K 20%	1/2W	CN2044	*1-573-299-11	CONNECTOR, BOARD TO BOARD 10P	
R716	1-247-700-11	CARBON 100 5%	1/4W F	< DIODE >			
R717	1-247-807-31	CARBON 100 5%	1/4W F	D804	8-719-901-33	DIODE 1SS133	
R718	1-247-700-11	CARBON 100 5%	1/4W F				

D5

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D808	8-719-109-88	DIODE RD5.6ESB1		C615	1-128-127-51	ELECT 2200MF	20% 25V
D818	8-719-109-93	DIODE RD6.2ESB2		C616	1-162-115-00	CERAMIC 330PF	10% 1KV
D821	8-719-914-44	DIODE DAP202K		C617	1-162-116-00	CERAMIC 680PF	10% 2KV
D827	8-719-982-96	DIODE MTZJ-T-77-2.2A		C618	1-162-134-11	CERAMIC 470PF	10% 2KV
D830	8-719-914-44	DIODE DAP202K		C619	1-102-030-00	CERAMIC 330PF	10% 500V
D831	8-719-914-43	DIODE DAN202K		C620	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
D832	8-719-914-44	DIODE DAP202K		C621	1-124-347-00	ELECT 100MF	20% 160V
D833	8-719-914-44	DIODE DAP202K		C622	1-128-320-11	ELECT 2200MF	20% 16V
< IC >				C623	1-102-030-00	CERAMIC 330PF	10% 500V
IC802	8-759-103-93	IC UPC393C		C624	1-126-800-51	ELECT 2200MF	20% 35V
< TRANSISTOR >				C625	1-126-800-51	ELECT 2200MF	20% 35V
Q804	8-729-216-22	TRANSISTOR 2SA1162-G		C627	1-136-553-11	FILM 0.0015MF	10% 400V
Q805	8-729-216-22	TRANSISTOR 2SA1162-G		C628	1-124-477-11	ELECT 47MF	20% 25V
Q812	8-729-920-74	TRANSISTOR 2SC2412K-QR		C629	1-124-907-11	ELECT 10MF	20% 50V
Q818	8-729-216-22	TRANSISTOR 2SA1162-G		C631	1-163-075-00	CERAMIC CHIP 0.047MF	10% 25V
< RESISTOR >				C632	1-137-372-11	FILM 0.022MF	5% 50V
JR802	1-216-295-00	METAL GLAZE 0	5% 1/10W	C633	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
JR803	1-216-295-00	METAL GLAZE 0	5% 1/10W	C636	1-130-777-00	FILM 0.1MF	5% 63V
JR804	1-216-295-00	METAL GLAZE 0	5% 1/10W	C640	1-124-916-11	ELECT 22MF	20% 50V
R802	1-216-077-00	METAL GLAZE 15K	5% 1/10W	C645	1-128-571-11	ELECT 56MF	20% 50V
R805	1-216-679-11	METAL CHIP 15K	0.50% 1/10W	C646	1-124-798-11	ELECT 1MF	20% 160V
R806	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	C647	1-124-907-11	ELECT 10MF	20% 50V
R808	1-216-085-00	METAL GLAZE 33K	5% 1/10W	C801	1-137-116-11	FILM 1MF	5% 200V
R809	1-216-097-00	METAL GLAZE 100K	5% 1/10W	C805	1-124-902-00	ELECT 0.47MF	20% 50V
R813	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	C808	1-162-114-00	CERAMIC 0.0047MF	2KV
R814	1-216-091-00	METAL GLAZE 56K	5% 1/10W	C809	1-124-808-51	ELECT 10MF	20% 200V
R815	1-216-081-00	METAL GLAZE 22K	5% 1/10W	C810	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
R820	1-216-097-00	METAL GLAZE 100K	5% 1/10W	C812	1-162-318-11	CERAMIC 0.001MF	10% 500V
R824	1-216-675-11	METAL CHIP 10K	0.50% 1/10W	C813	1-108-704-11	MYLAR 0.1MF	10% 200V
R828	1-216-121-00	METAL GLAZE 1M	5% 1/10W	C815	1-162-117-00	CERAMIC 100PF	10% 500V
R829	1-249-429-11	CARBON 10K	5% 1/4W F	C819	1-126-103-11	ELECT 470MF	20% 16V
R830	1-216-687-11	METAL CHIP 33K	0.50% 1/10W	C821	1-137-063-11	FILM 0.018MF	3% 0
R832	1-216-083-00	METAL GLAZE 27K	5% 1/10W	C822	1-162-116-00	CERAMIC 680PF	10% 2KV
R834	1-216-079-00	METAL GLAZE 18K	5% 1/10W	C824	1-137-366-11	FILM 0.0022MF	5% 50V
R835	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	C825	1-162-116-00	CERAMIC 680PF	10% 2KV
R837	1-216-695-11	METAL CHIP 68K	0.50% 1/10W	C826	1-137-515-11	FILM 0.056MF	3% 400V
R838	1-216-073-00	METAL GLAZE 10K	5% 1/10W	C828	1-136-557-11	FILM 0.0033MF	10% 400V
R846	1-216-671-11	METAL CHIP 6.8K	0.50% 1/10W	C830	1-136-189-00	FILM 0.1MF	5% 250V
R847	1-216-699-11	METAL CHIP 100K	0.50% 1/10W	C831	1-123-932-00	ELECT 4.7MF	20% 160V
R867	1-216-113-00	METAL GLAZE 470K	5% 1/10W	C832	1-124-477-11	ELECT 47MF	20% 25V
R884	1-216-693-11	METAL CHIP 56K	0.50% 1/10W	C833	1-136-126-00	FILM 0.82MF	5% 400V
R891	1-216-079-00	METAL GLAZE 18K	5% 1/10W	C834	1-137-114-11	FILM 0.68MF	5% 200V
*****				C835	1-124-480-11	ELECT 470MF	20% 25V
*A-1642-097-A D BOARD, COMPLETE				C836	1-102-228-00	CERAMIC 470PF	10% 500V
*****				C837	1-129-702-00	FILM 0.001MF	10% 400V
< CAPACITOR >				C838	1-108-704-11	MYLAR 0.1MF	10% 200V
C601	1-130-202-00	FILM 0.022MF	10% 400V	C839	1-123-950-00	ELECT 47MF	20% 250V
C602	1-162-116-00	CERAMIC 680PF	10% 2KV	C840	1-124-480-11	ELECT 470MF	20% 25V
C603	1-164-503-61	CERAMIC 0.0022MF	20% 400V	C841	1-102-228-00	CERAMIC 470PF	10% 500V
C605	1-124-910-11	ELECT 47MF	20% 50V	C842	1-136-208-11	FILM 0.068MF	10% 250V
C608	1-124-903-11	ELECT 1MF	20% 50V	C843	1-124-907-11	ELECT 10MF	20% 50V
C611	1-102-002-00	CERAMIC 680PF	10% 500V	C846	1-123-024-21	ELECT 33MF	160V
C612	1-130-481-00	FILM 0.0063MF	5% 50V	C851	1-137-364-11	FILM 0.001MF	5% 50V
C613	1-129-722-00	FILM 0.047MF	10% 630V	C854	1-161-754-00	CERAMIC 0.001MF	10% 2KV
C614	1-102-030-00	CERAMIC 330PF	10% 500V	C863	1-106-383-00	MYLAR 0.047MF	10% 100V
				C869	1-130-777-00	FILM 0.1MF	5% 63V
				C875	1-102-038-00	CERAMIC 0.001MF	500V
				C877	1-124-902-00	ELECT 0.47MF	20% 50V
				C878	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C879	1-102-228-00	CERAMIC 470PF	10% 500V

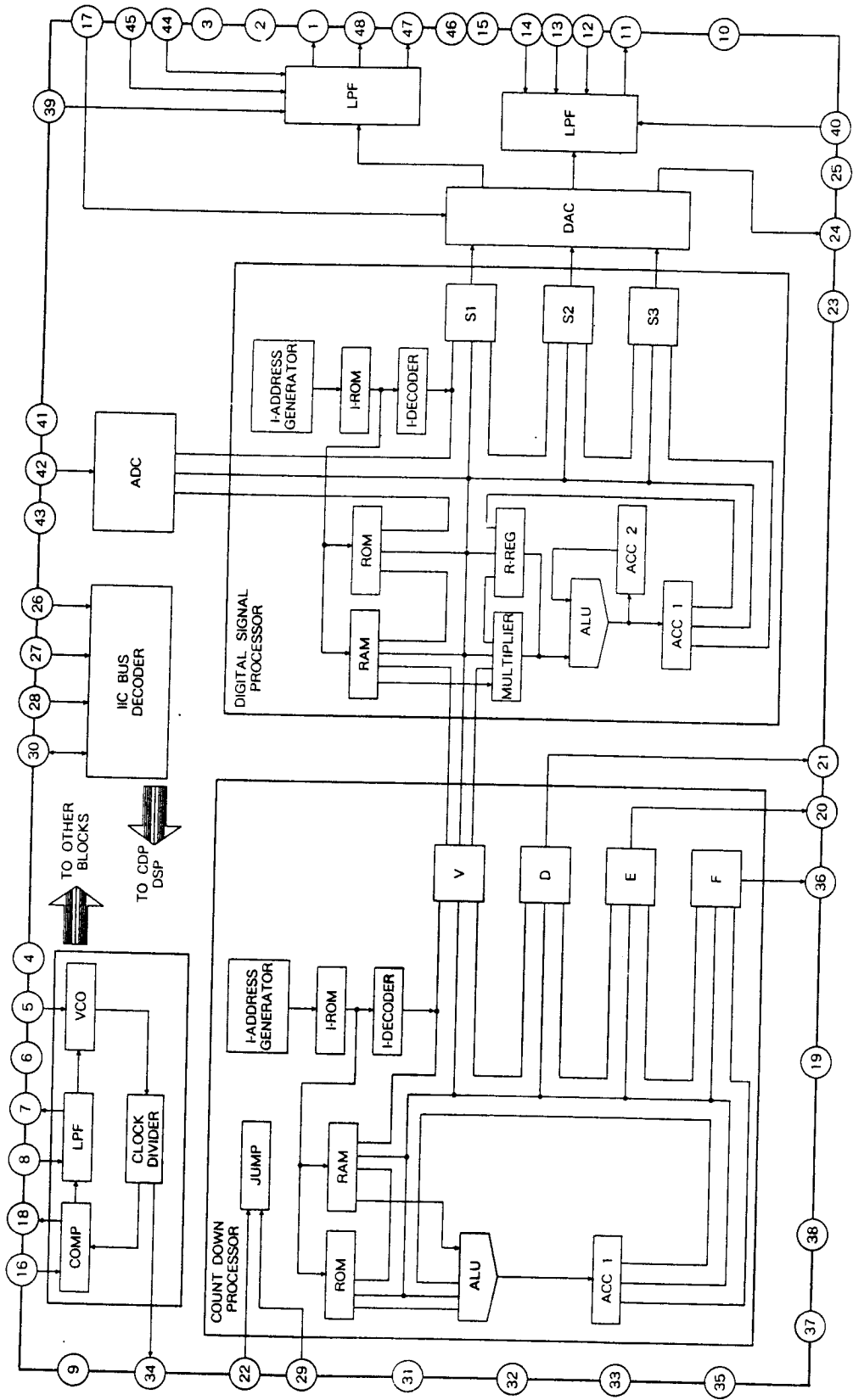
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauratron.co.uk

The components identified by
 shading and marked ? are critical
 for safety.
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 specified.

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C382	1-106-383-00	MYLAR 0.047MF	10% 100V	D826	8-719-914-43	DIODE DAN202K	
C1501	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	D829	8-719-901-33	DIODE 1SS133	
C1502	1-124-903-11	ELECT 1MF	20% 50V	D1501	8-719-914-43	DIODE DAN202K	
C1503	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	D1503	8-719-908-03	DIODE GP08D	
C1504	1-124-480-11	ELECT 470MF	20% 25V	D1504	8-719-982-03	DIODE MTZJ-3.6A	
C1505	1-124-911-11	ELECT 220MF	20% 50V		< IC >		
C1506	1-136-202-11	FILM 0.33MF	5% 63V	IC601	8-759-073-29	IC TDA4605-3	
C1507	1-137-423-11	MYLAR 0.15MF	10% 100V	IC602	8-759-908-15	IC TL431CLP	
C1508	1-124-480-11	ELECT 470MF	20% 25V	IC603	8-749-923-44	IC SPH617G-1	
C1509	1-124-767-00	ELECT 2.2MF	20% 50V	IC801	8-759-103-93	IC UPC393C	
C1511	1-124-907-11	ELECT 10MF	20% 50V	IC803	8-759-081-31	IC MC78L12ACPRP	
C1512	1-124-006-11	ELECT 10MF	20% 25V	IC1501	8-759-506-46	IC STV9879	
C1514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		< COIL >		
C1515	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L602	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
	< CONNECTOR >			L603	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
DY1	*1-580-798-11	CONNECTOR PIN (DY) 6P		L604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
CN0004	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		L605	1-412-528-11	INDUCTOR 18UH	
CN0009	1-568-878-51	PIN, CONNECTOR 3P		L606	1-412-528-11	INDUCTOR 18UH	
CN0504	1-564-511-11	PLUG, CONNECTOR 8P		L610	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
CN0505	*1-568-880-51	PIN, CONNECTOR 5P		L622	1-412-533-21	INDUCTOR 47UH	
CN0506	*1-568-880-51	PIN, CONNECTOR 5P		L623	1-412-533-21	INDUCTOR 47UH	
CN0519	*1-568-878-51	PIN, CONNECTOR 3P		L802	1-408-947-00	INDUCTOR 2.2MMH	
CN0521	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		L803	1-420-872-00	COIL, AIR CORE	
CN0523	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P		L804	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
CN0524	*1-568-878-51	PIN, CONNECTOR 3P		L807	1-412-540-31	INDUCTOR 180UH	
CN0525	*1-635-294-11	PIN, CONNECTOR (PC BOARD) 6P		L308	1-412-552-31	INDUCTOR 2.2MMH	
CN0526	*1-568-881-51	PIN, CONNECTOR 6P		L809	1-459-104-00	COIL, WITH CORE	
CN0529	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		L810	1-460-197-21	COIL, FERRITE (PMC)	
CN0544	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P		L811	1-412-519-11	INDUCTOR 3.3UH	
CN5521	*1-568-878-51	PIN, CONNECTOR 3P		L812	1-412-519-11	INDUCTOR 3.3UH	
	< DIODE >			L813	1-412-519-11	INDUCTOR 3.3UH	
D601	8-719-914-44	DIODE DAP202K		L817	1-423-963-11	TRANSFORMER, LINEARITY (HLT)	
D602	8-719-302-43	DIODE RGP10GPRG23		L818	1-459-104-00	COIL, WITH CORE	
D604	8-719-110-39	DIODE RD15ESB1		L1501	1-412-525-21	INDUCTOR 10UH	
D605	8-719-975-56	DIODE 1SS120A		L1502	1-412-525-21	INDUCTOR 10UH	
D606	8-719-302-43	DIODE RGP10GPRG23		L1503	1-412-525-21	INDUCTOR 10UH	
D607	8-719-302-43	DIODE RGP10GPRG23			< IC LINK >		
D608	8-719-300-33	DIODE RU-3AM		PS601	1-532-686-91	LINK, IC 2.7A	
D616	8-719-110-31	DIODE RD12ESB2		PS602	1-532-686-91	LINK, IC 2.7A	
D619	8-719-914-43	DIODE DAN202K		PS603	1-532-686-91	LINK, IC 2.7A	
D620	8-719-901-33	DIODE 1SS133		PS604	1-532-686-91	LINK, IC 2.7A	
D621	8-719-302-43	DIODE EL1Z			< TRANSISTOR >		
D624	8-719-312-39	DIODE R2K-V1		Q601	8-729-016-14	TRANSISTOR BUZ91A-E3155	
D801	8-719-018-82	DIODE RGP02-20EL-6394			4-200-001-01	HOLDER, IC (IC601)	
D802	8-719-302-43	DIODE EL1Z		Q602	8-729-177-22	TRANSISTOR 2SB772-Q	
D803	8-719-982-27	DIODE MTZJ-33C		Q603	8-729-900-53	TRANSISTOR DTC1144EK	
D809	8-719-110-03	DIODE RD7.5ESB2		Q604	8-729-209-15	TRANSISTOR 2SD2012	
D811	8-719-300-33	DIODE ERB44-06TP1		Q605	8-729-255-12	TRANSISTOR 2SC2551-0	
D812	8-719-908-03	DIODE GP08D		Q606	8-729-216-22	TRANSISTOR 2SA1162-G	
D813	8-719-908-03	DIODE GP08D		Q611	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D814	8-719-028-29	DIODE RU30ALFS1		Q612	8-729-903-29	TRANSISTOR DTA144TK	
D815	8-719-302-43	DIODE EL1Z		Q613	8-729-216-22	TRANSISTOR 2SA1162-G	
D816	8-719-979-85	DIODE EGP20G		Q802	8-729-140-97	TRANSISTOR 2SB734-34	
D822	8-719-982-20	DIODE MTZJ-30B		Q807	8-729-119-80	TRANSISTOR 2SC2688-LK	
D824	8-719-028-72	DIODE RGP02-17EL-6433		Q813	8-729-140-96	TRANSISTOR 2SD774-34	
D825	8-719-914-43	DIODE DAN202K		Q1501	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q1502	8-729-901-01	TRANSISTOR DTC144EK	

• M2 BOARD IC561 CXD2018Q



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D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1503	8-729-216-22	TRANSISTOR 2SA1162-G		R821	1-216-481-11	METAL OXIDE 1.2K 5%	3W F
Q1504	8-729-901-01	TRANSISTOR DTC144EX		R822	1-216-481-11	METAL OXIDE 1.2K 5%	3W F
		< RESISTOR >		R823	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
				R825	1-216-342-11	METAL OXIDE 0.27 5%	1W F
R502	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R826	1-216-166-00	METAL GLAZE 47 5%	1/8W
R603	1-215-901-00	METAL OXIDE 33K 5%	2W F	R833	1-216-105-00	METAL GLAZE 220K 5%	1/10W
R604	1-260-200-11	CARBON 240K 5%	1/2W	R836	1-216-242-00	METAL GLAZE 68K 5%	1/8W
R605	1-216-295-00	METAL GLAZE 0 5%	1/10W	R839	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
R606	1-216-035-00	METAL GLAZE 270 5%	1/10W	R840	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R607	1-216-210-00	METAL GLAZE 3.3K 5%	1/8W	R841	1-249-397-11	CARBON 22 5%	1/4W F
R608	1-215-903-11	METAL OXIDE 68K 5%	2W F	R842	1-216-454-11	METAL OXIDE 390 5%	2W F
R609	1-249-395-11	CARBON 15 5%	1/4W	R848	1-215-885-00	METAL OXIDE 68 5%	2W F
R610	1-247-881-00	CARBON 120K 5%	1/4W	R849	1-215-884-11	METAL OXIDE 47 5%	2W F
R611	1-215-886-11	METAL OXIDE 160 5%	2W F	R851	1-247-743-11	CARBON 220 5%	1/2W F
R612	1-247-894-11	CARBON 430K 5%	1/4W	R852	1-249-389-11	CARBON 4.7 5%	1/4W F
R613	1-216-260-11	METAL GLAZE 390K 5%	1/8W	R853	1-249-443-11	CARBON 0.47 5%	1/4W F
R614	1-216-488-11	METAL OXIDE 18K 5%	3W F	R854	1-249-443-11	CARBON 0.47 5%	1/4W F
R615	1-216-488-11	METAL OXIDE 18K 5%	3W F	R855	1-202-826-00	SOLID 4.7K 20%	1/2W
R618	1-216-449-11	METAL OXIDE 56 5%	2W F	R858	1-249-423-11	CARBON 3.3K 5%	1/4W
R620	1-216-045-00	METAL GLAZE 680 5%	1/10W	R864	1-216-686-11	METAL CHIP 30K 0.50%	1/10W
R621	1-216-659-11	METAL CHIP 2.2K 0.50%	1/10W	R868	1-249-426-11	CARBON 5.6K 5%	1/4W
R622	1-216-041-00	METAL GLAZE 470 5%	1/10W	R871	1-214-907-00	METAL 56K 1%	1/2W
R623	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R872	1-249-393-11	CARBON 10 5%	1/4W F
R625	1-216-449-11	METAL OXIDE 56 5%	2W F	R873	1-249-393-11	CARBON 10 5%	1/4W F
R626	1-216-635-11	METAL CHIP 220 0.50%	1/10W	R876	1-249-421-11	CARBON 2.2K 5%	1/4W
R627	1-249-398-11	CARBON 27 5%	1/4W F	R877	1-215-907-11	METAL OXIDE 22 5%	3W F
R629	1-215-464-00	METAL 62K 1%	1/4W	R889	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R630	1-249-421-11	CARBON 2.2K 5%	1/4W	R893	1-215-878-00	METAL OXIDE 33K 5%	1W F
R631	1-216-398-11	METAL OXIDE 5.6 5%	3W F	R894	1-216-264-00	METAL GLAZE 560K 5%	1/8W
R633	1-249-415-11	CARBON 680 5%	1/4W	R895	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R634	1-215-477-00	METAL 220K 1%	1/4W	R897	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R635	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R898	1-216-262-00	METAL GLAZE 470K 5%	1/8W
R636	1-215-925-11	METAL OXIDE 22K 5%	3W F	R899	1-249-377-11	CARBON 0.47 5%	1/4W F
R637	1-216-113-00	METAL GLAZE 470K 5%	1/10W	R1501	1-216-676-11	METAL CHIP 11K 0.50%	1/10W
R638	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R1502	1-216-666-11	METAL CHIP 4.3K 0.50%	1/10W
R639	1-216-089-91	METAL GLAZE 47K 5%	1/10W	R1503	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R640	1-207-905-00	WIREWOUND 0.27 10%	2W F	R1504	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R642	1-216-374-00	METAL OXIDE 2.7 5%	2W F	R1505	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R643	1-249-417-11	CARBON 1K 5%	1/4W	R1506	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R645	1-215-464-00	METAL 62K 1%	1/4W	R1508	1-216-683-11	METAL CHIP 22K 0.50%	1/10W
R646	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R1509	1-216-689-11	METAL CHIP 39K 0.50%	1/10W
R647	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W	R1510	1-249-382-11	CARBON 1.2 5%	1/4W F
R648	1-249-424-11	CARBON 3.9K 5%	1/4W	R1511	1-215-888-00	METAL OXIDE 220 5%	2W F
R649	1-216-270-00	METAL GLAZE 1M 5%	1/8W	R1512	1-216-370-11	METAL OXIDE 1.2 5%	2W F
R650	1-216-113-00	METAL GLAZE 470K 5%	1/10W	R1514	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R651	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	R1550	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R652	1-216-109-00	METAL GLAZE 330K 5%	1/10W	R1551	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R653	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R1552	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R654	1-215-904-11	METAL OXIDE 100K 5%	2W F	FS046	1-249-399-11	CARBON 33 5%	1/4W F
R655	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W			< VARIABLE RESISTOR >	
R656	1-216-033-00	METAL GLAZE 220 5%	1/10W	RV601	1-241-628-11	RES, ADJ, CARBON 2.2K	
R657	1-247-811-31	CARBON 150 5%	1/4W			< TRANSFORMER >	
R658	1-249-403-11	CARBON 68 5%	1/4W	T601	1-423-738-11	S.R.T (SMT89)	
R801	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	T801	1-453-153-11	TRANSFORMER ASSY, FLYBACK (NX-JU2602A2)	
R804	1-217-778-11	FUSIBLE 1K 5%	1W F	T803	1-437-090-00	HDT	
R807	1-216-037-00	METAL GLAZE 330 5%	1/10W	T895	1-413-059-00	TRANSFORMER, FERRITE (DFT)	
R811	1-216-033-00	METAL GLAZE 220 5%	1/10W			*****	
R812	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W			For Service Manuals Contact	
R818	1-216-685-11	METAL CHIP 27K 0.50%	1/10W			MAURITRON TECHNICAL SERVICES	
R819	1-247-755-11	CARBON 1.8K 5%	1/2W F			8 Cherry Tree Rd, Chinnor	
						Oxon OX9 4QY	
						Tel: 01844-351694 Fax: 01844-352554	
						Email: enquiries@mauritron.co.uk	

D4	VM
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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1642-116-A	D4 BOARD, COMPLETE	*****		R1842	1-260-111-11	CARBON 10K 5%	1/2W
	< CAPACITOR >			R1843	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
C1841	1-137-371-11	FILM 0.015MF	5% 50V	R1844	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
C1844	1-106-383-00	MYLAR 0.047MF	5% 200V	R1847	1-249-399-11	CARBON 33 5%	1/4W F
C1845	1-130-785-11	MYLAR 0.47MF	10% 100V	R1848	1-216-434-11	METAL OXIDE 1.8K 5%	1W F
C1851	1-126-103-11	ELECT 470MF	20% 16V	R1849	1-260-111-11	CARBON 10K 5%	1/2W
C1854	1-124-910-11	ELECT 47MF	20% 50V	R1852	1-216-089-91	METAL GLAZE 47K 5%	1/10W
C1855	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R1853	1-216-691-11	METAL CHIP 47K 0.50%	1/10W
C1858	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	R1854	1-216-073-00	METAL GLAZE 10K 5%	1/10W
C1859	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	R1860	1-216-021-00	METAL GLAZE 68 5%	1/10W
C1860	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	R1861	1-216-073-00	METAL GLAZE 10K 5%	1/10W
C1861	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	R1862	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
C1862	1-124-657-00	ELECT 10MF	20% 50V	R1863	1-218-758-11	METAL CHIP 180K 0.50%	1/10W
C1863	1-136-104-00	FILM 0.16MF	5% 200V	R1873	1-216-474-11	METAL OXIDE 82 5%	3W F
C1867	1-126-103-11	ELECT 470MF	20% 16V	R1875	1-216-683-11	METAL CHIP 22K 0.50%	1/10W
C1892	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	R1877	1-216-097-00	METAL GLAZE 100K 5%	1/10W
	< CONNECTOR >			R1878	1-260-091-11	CARBON 220 5%	1/2W
CN1823	*1-573-299-11	CONNECTOR, BOARD TO BOARD 10P		R1881	1-260-091-11	CARBON 220 5%	1/2W
CN1841	*1-568-878-51	PIN, CONNECTOR 3P		R1882	1-215-869-11	METAL OXIDE 1K 5%	1W F
CN1842	1-508-794-00	PIN, CONNECTOR (5MM PITCH) 1P		R1893	1-216-474-11	METAL OXIDE 82 5%	3W F
	< DIODE >			R1894	1-216-073-00	METAL GLAZE 10K 5%	1/10W
D1840	8-719-302-43	DIODE EL1Z		R1895	1-216-097-00	METAL GLAZE 100K 5%	1/10W
D1841	8-719-914-43	DIODE DAN202K		R1898	1-216-037-00	METAL GLAZE 330 5%	1/10W
D1856	8-719-914-43	DIODE DAN202K		R1899	1-216-037-00	METAL GLAZE 330 5%	1/10W
D1857	8-719-987-87	DIODE ERA85-009TP3			< VARIABLE RESISTOR >		
D1868	8-719-937-37	DIODE ERA85-009		RV1851	1-241-765-11	RES, ADJ, CERMET 22K	
D1882	8-719-109-89	DIODE RD5.6ESB2		RV1853	1-241-628-11	RES, ADJ, CARBON 2.2K	
D1883	8-719-109-89	DIODE RD5.6ESB2			< TRANSFORMER >		
	< IC >			T1851	1-423-786-11	TRANSFORMER, FERRITE (VPOT)	
IC1851	8-759-708-05	IC NJM78L05A			*****		
IC1852	8-759-135-80	IC UPC358C			*A-1644-040-A	VM BOARD, COMPLETE	
IC1853	8-759-902-21	IC SN74LS221N			*****		
	< COIL >				< CAPACITOR >		
L1841	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE		C1701	1-124-119-00	ELECT 330MF 20%	16V
L1843	1-459-104-00	COIL, WITH CORE		C1702	1-101-880-00	CERAMIC 47PF 5%	50V
L1852	1-459-390-00	COIL (WITH CORE)		C1703	1-102-115-00	CERAMIC 560PF 10%	50V
	< TRANSISTOR >			C1704	1-161-830-00	CERAMIC 0.0047MF	500V
Q1840	8-729-920-74	TRANSISTOR 2SC2412K-QR		C1705	1-124-120-11	ELECT 220MF 20%	16V
Q1841	8-729-195-82	TRANSISTOR 2SC2958-L		C1706	1-123-935-00	ELECT 33MF 20%	160V
Q1851	8-729-920-74	TRANSISTOR 2SC2412K-QR		C1707	1-124-907-11	ELECT 10MF 20%	50V
Q1854	8-729-216-22	TRANSISTOR 2SA1162-G		C1708	1-101-006-00	CERAMIC 0.047MF	50V
Q1855	8-729-920-74	TRANSISTOR 2SC2412K-QR		C1709	1-108-704-11	MYLAR 0.1MF	10% 200V
Q1856	8-729-017-05	TRANSISTOR 2SA1837		C1710	1-136-207-11	FILM 0.047MF	10% 250V
Q1857	8-729-122-03	TRANSISTOR 2SA1220A-P		C1711	1-162-318-11	CERAMIC 0.001MF	10% 500V
Q1858	8-729-920-92	TRANSISTOR 2SD2096-EF		C1712	1-124-799-11	ELECT 2.2MF	20% 160V
Q1859	8-729-216-22	TRANSISTOR 2SA1162-G		C1713	1-162-318-11	CERAMIC 0.001MF	10% 500V
Q1860	8-729-920-74	TRANSISTOR 2SC2412K-QR		C1714	1-136-207-11	FILM 0.047MF	10% 250V
Q1861	8-729-017-06	TRANSISTOR 2SC4793		C1716	1-124-907-11	ELECT 10MF	20% 50V
	< RESISTOR >			C1718	1-124-120-11	ELECT 220MF	20% 16V
JR1851	1-216-295-00	METAL GLAZE 0 5%	1/10W	C1719	1-124-927-11	ELECT 4.7MF	20% 50V
R1841	1-216-085-00	METAL GLAZE 33K 5%	1/10W		< CONNECTOR >		
				CN1819	*1-558-882-51	PIN, CONNECTOR 7P	
				CN1830	*1-568-878-51	PIN, CONNECTOR 3P	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< DIODE >				*1-648-314-11 H1 BOARD, COMPLETE *****			
D1701	8-719-901-33	DIODE 1SS133		< CAPACITOR >			
D1702	8-719-901-33	DIODE 1SS133		C083	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
D1703	8-719-901-33	DIODE 1SS133		C087	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
D1704	8-719-982-37	DIODE MTZJ-39C		< CONNECTOR >			
D1705	8-719-982-37	DIODE MTZJ-39C		CN1008	*1-564-516-11	PLUG, CONNECTOR 13P	
D1706	8-719-901-33	DIODE 1SS133		< COIL >			
D1707	8-719-901-33	DIODE 1SS133		L081	1-408-409-00	INDUCTOR 10UH	
< COIL >				L082	1-408-409-00	INDUCTOR 10UH	
L1702	1-408-418-00	INDUCTOR 56UH		< RESISTOR >			
< TRANSISTOR >				JR021	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE		R081	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q1702	8-729-173-38	TRANSISTOR 2SA733-K		R082	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q1703	8-729-017-05	TRANSISTOR 2SA1837		R083	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q1704	*4-368-683-21	SPRING, TRANSISTOR (Q1703)		R084	1-216-202-00	METAL GLAZE 1.5K 5% 1/8W	
Q1705	8-729-119-78	TRANSISTOR 2SC2785-HFE		R085	1-216-202-00	METAL GLAZE 1.5K 5% 1/8W	
Q1706	8-729-017-06	TRANSISTOR 2SC4793		< SWITCH >			
Q1707	*4-368-683-21	SPRING, TRANSISTOR (Q1705)		S081	1-571-532-21	SWITCH, TACTIL	
Q1708	8-729-119-78	TRANSISTOR 2SC2785-HFE		S082	1-571-532-21	SWITCH, TACTIL	
Q1709	8-729-140-96	TRANSISTOR 2SD774-34		S083	1-571-532-21	SWITCH, TACTIL	
Q1708	8-729-901-59	TRANSISTOR BF199		*****			
Q1709	8-729-255-12	TRANSISTOR 2SC2551-0		*1-650-759-11	H2 BOARD	*****	
< RESISTOR >				< CONNECTOR >			
R1701	1-247-807-31	CARBON 100 5% 1/4W		CN1132	*1-568-882-51	PIN, CONNECTOR 7P	
R1702	1-249-420-11	CARBON 1.8K 5% 1/4W		< DIODE >			
R1703	1-247-807-31	CARBON 100 5% 1/4W		D092	8-719-948-31	DIODE LD-201VR	
R1704	1-249-420-11	CARBON 1.8K 5% 1/4W		D093	8-719-948-31	DIODE LD-201VR	
R1705	1-247-736-11	CARBON 56 5% 1/2W F		D094	8-719-948-31	DIODE LD-201VR	
R1706	1-249-414-11	CARBON 560 5% 1/4W F		< IC >			
R1707	1-249-412-11	CARBON 390 5% 1/4W		IC091	8-741-101-75	IC SBX1610-11	
R1709	1-249-416-11	CARBON 820 5% 1/4W		< RESISTOR >			
R1710	1-249-385-11	CARBON 2.2 5% 1/4W F		R091	1-249-413-11	CARBON 470 5% 1/4W	
R1711	1-249-432-11	CARBON 18K 5% 1/4W		*****			
R1712	1-249-435-11	CARBON 33K 5% 1/4W		*A-1651-057-A	J BOARD, COMPLETE	*****	
R1713	1-249-438-11	CARBON 56K 5% 1/4W		< CAPACITOR >			
R1714	1-249-429-11	CARBON 10K 5% 1/4W		C281	1-124-119-00	ELECT 330MF 20% 16V	
R1715	1-216-476-11	METAL OXIDE 180 5% 3W F		C295	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
R1716	1-249-417-11	CARBON 1K 5% 1/4W F		C296	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
R1717	1-249-432-11	CARBON 18K 5% 1/4W		C906	1-101-004-00	CERAMIC 0.01MF 50V	
R1718	1-249-410-11	CARBON 270 5% 1/4W		C910	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
R1719	1-249-419-11	CARBON 1.5K 5% 1/4W		C911	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
R1720	1-249-441-11	CARBON 100K 5% 1/4W		C912	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
R1721	1-249-414-11	CARBON 560 5% 1/4W		C913	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
R1722	1-249-385-11	CARBON 2.2 5% 1/4W F					
R1723	1-249-429-11	CARBON 10K 5% 1/4W					
R1724	1-249-436-11	CARBON 39K 5% 1/4W					
R1725	1-249-417-11	CARBON 1K 5% 1/4W					
R1726	1-249-411-11	CARBON 330 5% 1/4W					
R1727	1-249-402-11	CARBON 56 5% 1/4W F					
R1729	1-216-451-11	METAL OXIDE 120 5% 2W F					
R1731	1-249-420-11	CARBON 1.8K 5% 1/4W					
R1732	1-249-426-11	CARBON 5.6K 5% 1/4W					
R1734	1-249-419-11	CARBON 1.5K 5% 1/4W					

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C914	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	JR924	1-216-296-00	METAL GLAZE 0	5% 1/8W
C915	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	JR926	1-216-296-00	METAL GLAZE 0	5% 1/8W
C916	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	JR927	1-216-296-00	METAL GLAZE 0	5% 1/8W
C917	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	JR928	1-216-296-00	METAL GLAZE 0	5% 1/8W
C922	1-124-477-11	ELECT 47MF	20% 16V	JR935	1-216-296-00	METAL GLAZE 0	5% 1/8W
C923	1-164-346-11	CERAMIC CHIP 1MF	16V	JR942	1-216-296-00	METAL GLAZE 0	5% 1/8W
C924	1-124-477-11	ELECT 47MF	20% 16V	JR952	1-216-296-00	METAL GLAZE 0	5% 1/8W
C925	1-124-477-11	ELECT 47MF	20% 16V	JR954	1-216-295-00	METAL GLAZE 0	5% 1/10W
C926	1-164-346-11	CERAMIC CHIP 1MF	16V	JR955	1-216-296-00	METAL GLAZE 0	5% 1/8W
C927	1-124-477-11	ELECT 47MF	20% 16V	JR956	1-216-295-00	METAL GLAZE 0	5% 1/10W
C928	1-124-477-11	ELECT 47MF	20% 16V	JR957	1-216-295-00	METAL GLAZE 0	5% 1/10W
C929	1-124-477-11	ELECT 47MF	20% 16V				
C930	1-124-477-11	ELECT 47MF	20% 16V	R283	1-216-073-00	METAL GLAZE 10K	5% 1/10W
C931	1-164-346-11	CERAMIC CHIP 1MF	16V	R284	1-216-073-00	METAL GLAZE 10K	5% 1/10W
C932	1-164-346-11	CERAMIC CHIP 1MF	16V	R289	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
				R291	1-249-413-11	CARBON 470	5% 1/4W
				R292	1-249-413-11	CARBON 470	5% 1/4W
< CONNECTOR >							
CN1209	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P		R911	1-216-022-00	METAL GLAZE 75	5% 1/10W
CN1210	*1-564-522-11	PLUG, CONNECTOR 7P		R921	1-216-022-00	METAL GLAZE 75	5% 1/10W
CN1240	*1-564-519-11	PLUG, CONNECTOR 4P		R922	1-216-222-00	METAL GLAZE 10K	5% 1/8W
				R923	1-216-039-00	METAL GLAZE 390	5% 1/10W
				R924	1-216-039-00	METAL GLAZE 390	5% 1/10W
< DIODE >							
D903	8-719-921-69	DIODE MTZJ9.1		R925	1-216-089-91	METAL GLAZE 47K	5% 1/10W
D904	8-719-921-69	DIODE MTZJ9.1		R926	1-216-039-00	METAL GLAZE 390	5% 1/10W
D907	8-719-921-69	DIODE MTZJ9.1		R927	1-216-039-00	METAL GLAZE 390	5% 1/10W
D908	8-719-921-69	DIODE MTZJ9.1		R928	1-216-089-91	METAL GLAZE 47K	5% 1/10W
D909	8-719-921-69	DIODE MTZJ9.1		R929	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
D910	8-719-921-69	DIODE MTZJ9.1		R930	1-216-113-00	METAL GLAZE 470K	5% 1/10W
D911	8-719-921-69	DIODE MTZJ9.1		R931	1-216-212-00	METAL GLAZE 3.9K	5% 1/8W
D912	8-719-921-69	DIODE MTZJ9.1		R932	1-216-113-00	METAL GLAZE 470K	5% 1/10W
D913	8-719-921-69	DIODE MTZJ9.1		R933	1-216-073-00	METAL GLAZE 10K	5% 1/10W
D914	8-719-921-69	DIODE MTZJ9.1		R934	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
D915	8-719-921-69	DIODE MTZJ9.1		R935	1-216-022-00	METAL GLAZE 75	5% 1/10W
D916	8-719-921-69	DIODE MTZJ9.1		R936	1-216-022-00	METAL GLAZE 75	5% 1/10W
D917	8-719-921-69	DIODE MTZJ9.1		R937	1-216-113-00	METAL GLAZE 470K	5% 1/10W
D924	8-719-921-69	DIODE MTZJ9.1		R938	1-216-039-00	METAL GLAZE 390	5% 1/10W
D925	8-719-921-69	DIODE MTZJ9.1		R939	1-216-188-00	METAL GLAZE 390	5% 1/8W
D926	8-719-921-69	DIODE MTZJ9.1		R940	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
D927	8-719-921-69	DIODE MTZJ9.1		R941	1-216-113-00	METAL GLAZE 470K	5% 1/10W
D928	8-719-921-69	DIODE MTZJ9.1		R942	1-216-188-00	METAL GLAZE 390	5% 1/8W
D999	8-719-110-39	DIODE RD15ESB1		R943	1-216-089-91	METAL GLAZE 47K	5% 1/10W
				R944	1-216-188-00	METAL GLAZE 390	5% 1/8W
< JACK >							
J291	1-537-505-11	TERMINAL BOARD (2P)		R945	1-216-089-91	METAL GLAZE 47K	5% 1/10W
J903	1-561-534-41	SOCKET, PIN 21P		R959	1-216-674-11	METAL CHIP 9.1K	0.50% 1/10W
J905	1-695-293-11	SOCKET 21P		R960	1-216-674-11	METAL CHIP 9.1K	0.50% 1/10W
				R968	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
				R969	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
< TRANSISTOR >							
Q281	8-729-920-74	TRANSISTOR 2SC2412K-QR		R970	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
Q282	8-729-920-74	TRANSISTOR 2SC2412K-QR		R977	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
< RESISTOR >							
JR901	1-216-295-00	METAL GLAZE 0	5% 1/10W				
JR906	1-216-295-00	METAL GLAZE 0	5% 1/10W				
JR915	1-216-295-00	METAL GLAZE 0	5% 1/10W				
JR917	1-216-296-00	METAL GLAZE 0	5% 1/8W				
JR918	1-216-295-00	METAL GLAZE 0	5% 1/10W				
JR919	1-216-296-00	METAL GLAZE 0	5% 1/8W				
JR920	1-216-295-00	METAL GLAZE 0	5% 1/10W				
JR921	1-216-295-00	METAL GLAZE 0	5% 1/10W				

The components identified by shading and marked * are critical for safety. Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
MISCELLANEOUS *****							
	1-406-807-21	COIL, DEGAUSSING					
	8-451-422-11	DEFLECTION YOKE (Y29GXA)					
	1-452-509-11	NECK ASSY, PICTURE TUBE(MA-308)					
	1-544-728-11	SPEAKER					
	1-690-270-21	CORD, POWER(WITH CONNECTOR) (KV-X2971B, X2973E)					
	1-590-762-11	CORD, POWER(WITH PLUG) (KV-X2972U)					
	1-751-680-11	CORD, POWER(WITH NOISE FILTER) (KV-X2971A, X2971D, X2971K)					
V901	8-733-841-05	PICTURE TUBE (M68KZT10X)					

ACCESSORIES AND PACKING MATERIALS *****							
	4-202-606-11	MANUAL, INSTRUCTION (KV-X2971D) (GERMAN/ENGLISH//DUTCH/GREEK)					
	4-202-606-41	MANUAL, INSTRUCTION (KV-X2971A) (ITALIAN)					
	4-202-606-51	MANUAL, INSTRUCTION (KV-X2971B) (GERMAN/FRENCH/ITALIAN)					
	4-202-606-61	MANUAL, INSTRUCTION (KV-X2972U) (ENGLISH)					
	4-202-606-71	MANUAL, INSTRUCTION (KV-X2973E) (SPANISH)					
	4-202-606-81	MANUAL, INSTRUCTION (KV-X2973E) (FRENCH/DUTCH/SWEDISH/DANISH/GERMAN FINNISH/NORWEGIAN/PORTUGUESE)					
	4-202-606-91	MANUAL, INSTRUCTION (KV-X2971K) (GERMAN/ENGLISH/RUSSIAN/HUNGARIAN/POLISH)					
	*4-039-906-01	BAG, PROTECTION					
	*4-042-127-01	CUSHION (UPPER) (ASSY)					
	*4-042-126-01	CUSHION (LOWER) (ASSY)					
	*4-042-128-01	INDIVIDUAL CARTON					
REMOTE COMMANDER *****							
	1-467-272-11	COMMANDER, STANDARD TYPE(RM-831)					
	9-903-466-01	POCKET COVER (FOR RM-831)					

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

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