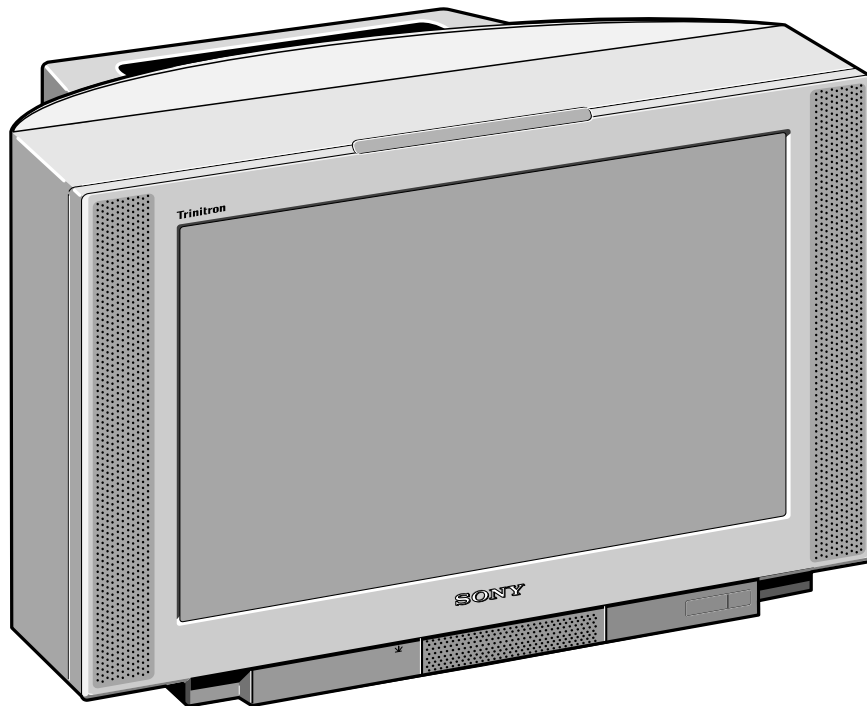


Self Diagnosis
Supported model

SERVICE MANUAL

GE-1A CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-28DS60U	RM-891	UK	SCC-Q21A-A	KV-32DS60U	RM-891	UK	SCC-Q21B-A



TRINITRON® COLOR TV
SONY®

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
UK	I	NICAM Stereo	UHF : B21-B69	PAL NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	28DS60U	32DS60U
Power Consumption	200W	200W

[PICTURE TUBE]

KV-28DS60

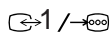
FD Trinitron WIDE
Approx. 71 cm (28 inches)
(Approx. 66cm picture measured diagonally)
102 degree deflection

KV-32DS60

FD Trinitron WIDE
Approx. 82 cm (32 inches)
(Approx. 76 cm picture measured diagonally)
102 degree deflection

Input/Output Terminals

[REAR]



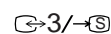
21-pin Euro connector (CENELEC standard).

- Inputs for Audio and Video signals.
- Inputs for RGB.
- Outputs of TV Video and Audio signals.



21-pin Euro connector

- Inputs for Audio and Video signals.
- Inputs for S video.
- Outputs for Video and Audio signals (selectable).



21-pin Euro connector

- Inputs for Audio and Video signals.
- Inputs for S video.

[FRONT]

- 3** Video output - phono jack
- 3** Audio inputs - phono jacks
- 3** S Video input - 4 pin DIN
- Headphone jack : stereo minijack

Sound output 2x30W (Music Power)
Power requirements 220 - 240V

Dimensions
KV-28DS60 Approx 773 x 501 x 526 mm (w/h/d)
KV-32DS60 Approx 867 x 564 x 558 mm (w/h/d)

Weight
KV-28DS60 Approx 56.5kg
KV-32DS60 Approx 68.5kg

Supplied accessories RM-891 Remote Commander (1)
IEC designated R6 batteries (2)
Other features NICAM, DNR, Dolby Digital Surround System, Graphic Equalizer, TELETEXT, Smartlink

[RM-891]


Remote control system Infrared control
Power requirements 3V dc
2 batteries IEC designation R6 (size AA)

Dimensions Approx 210x56x24mm (w/h/d)
Weight Approx 110g (Not including battery)

Design and specifications are subject to change without notice.

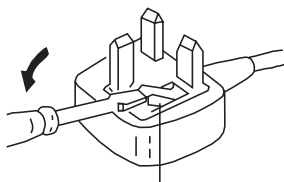
Model Name	KV-28DS60U	KV-32DS60U
Item		
Pal Comb	ON	ON
PIP	OFF	OFF
RGB Priority	ON	ON
Woofers Box	ON	ON
Scart 1	ON	ON
Scart 2	ON	ON
Front in (3)	ON	ON
Scart 4	ON	ON
Projector	OFF	OFF
AKB in 16:9 mode	ON	ON
Norm B/G	OFF	OFF
Norm I	ON	ON
Norm D/K	OFF	OFF
Norm AUS	OFF	OFF
Norm L	OFF	OFF
Norm SAT	OFF	OFF
Norm M	OFF	OFF
Teletext	ON	ON
Nicam Stereo	ON	ON
Language Preset	English	English

WARNING

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.

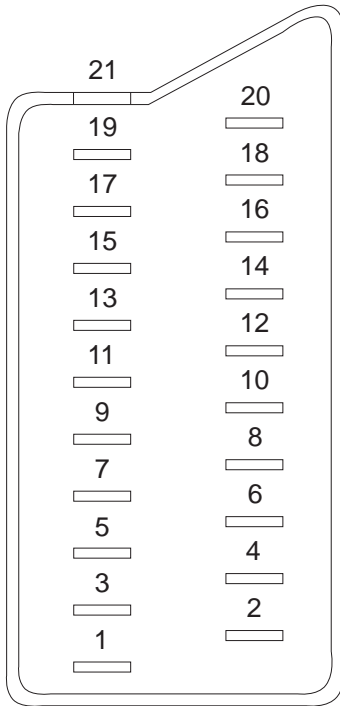
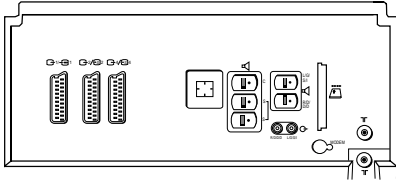
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE OUTLET SOCKET.

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.



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

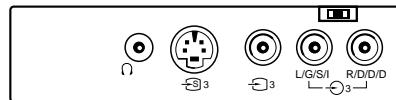
21 pin connector



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 output 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 : 75 ohms
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 + 10dB
4	C (S signal) input	0.3V ± 3dB 75 ohm, positive Sync.



GE-1A SELF DIAGNOSTIC SOFTWARE

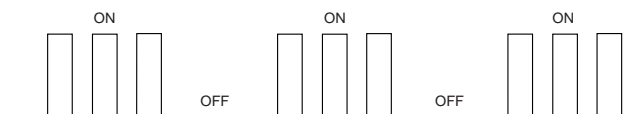
The identification of errors within the GE-1A chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in Fuse is burned out	Power does not come on No power is supplied to the TV AC power supply is faulty
+B Overvoltage(OVP)	2 times	H.OUT (Q502) is shorted. (D Board) IC603 Power IC is shorted. (D Board)	Power does not come on Load on power line has shorted
Vertical Deflection stopped	4 times	+15V is not supplied R519 open (D Board) -15V is not supplied R518 open (D Board) IC502 is shorted (D Board)	Vertical deflection pulse has stopped Power line has shorted

ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash!)	01
Over Current Protection	02
Over Voltage Protection	03
Vertical Protection	04
No function	05
H - Protection	06
Speaker Protection	07
MEGATEXT	08
NVM	09
Main colour decoder	10
Feature Box 1	11
D/A converter	12
Multi Component processor	13
Multi sound processor	14
DMUX	15
Feature Box 2	16

Flash Timing Example : e.g. error number 3

StBy LED



ERROR DETECTION MONITOR

Device acknowledge is used to check IIC errors. Device acknowledge is checked by sending an IIC start sequence during CRT power on. Each device is checked three times, if there is no acknowledge after every attempt, it will be regarded as an error.

There are three steps to check errors

1. IIC line 0
If all devices except the NVM are errors, IIC line 0 error is displayed
2. Board check
If all devices mounted on one board have errors, board error is displayed
3. Each device check
If IIC line error and board error are not detected then the device with an error is displayed

The detected errors can be displayed as follows:

1. Error Monitor Menu
2. Error Reader

1. ERROR MONITOR MENU

The error monitor menu is displayed by selecting TT22. The following menu will be displayed:

ERROR MONITOR

Operating Time :
930360h 15h

Saved Errors :

1. 000h = B-Board
2. 000h = P87C654-Feature Box *B
3. 000h = no error occurred
4. 000h = no error occurred
5. 000h = no error occurred

Actual Error :
New error code sequence is starting

Ignore Errors : [off]
To reset NVM press TT65

2. ERROR READER DISPLAY

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10. Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table :

Send Data to Error Reader				
Error Code	Data high	Data Low	Error type	Function
00 00h	-	f0h	no device	
Gen.IIC Error				
00 01h	f0h	01h	IIC 0 line	
00 02h	f0h	02h	IIC 1 line	
Board Error				
01 00h	f1h	00h	A Board	
02 00h	f2h	00h	No function	
03 00h	f3h	00h	B Board	
04 00h	f4h	00h	No function	
05 00h	f5h	00h	D1 Board	
06 00h	f6h	00h	J Board	
07 00h	f7h	00h	Q Board	
Device Error				
A Board				
01 01h	f1h	01h	ST24C64	NVM doesn't respond
01 02h	f1h	02h	SDA5273/75	Megatext doesn't respond
01 03h	f1h	03h	CXA2101	MCP
01 04h	f1h	04h	SDA9361	Deflection doesn't respond
01 05h	f1h	05h	TVF-01-XXX	Tuner doesn't respond
01 06h	f1h	06h	No function	
01 07h	f1h	07h	MSP3410D	Audio processor
01 08h	f1h	08h	CXA1875	Port Expander for SCART doesn't respond
01 09h	f1h	09h	CXA1315	Port Expander for UYV doesn't respond
01 10h	f1h	10h	PCF8574	General Port Expander 1 doesn't respond
01 11h	f1h	11h	No function	
01 12h	f1h	12h	PCF8574	Interrupt Port Expander doesn't respond
01 13h	f1h	13h	PCF8593	Real Time Clock doesn't respond
01 14h	f1h	14h	No function	
02 01h	f2h	01h	TC9337	Audio Effect Processor (DSP) doesn't respond
B Board				
03 01h	f3h	01h	TDA9144	Colour Decoder doesn't respond
03 02h	f3h	02h	No function	
03 03h	f3h	03h	No function	
03 04h	f3h	04h	P87C654	Feature box1 doesn't respond
03 05h	f3h	05h	SDA9280	D/A Converter doesn't respond
03 06h	f3h	06h	P87C654	Feature box doesn't respond
D1 Board				
05 01h	f5h	01h	CXA1875	Port expander for MP, S-Cont doesn't respond
J Board				
06 01h	f6h	01h	CXA1855	AV-Switch Doesn't respond
06 02h	f6h	02h	TDA7309	Headphone processor doesn't respond

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE 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 LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED Δ 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 SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, 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 CHÂSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÉCURITÉ !!

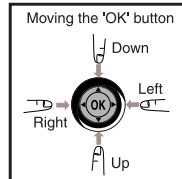
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

Quick Start Guide

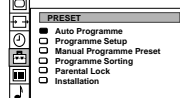
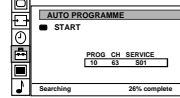
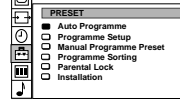
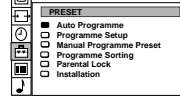
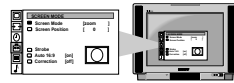
6. Automatically Tuning the TV

You need to tune the TV to receive channels. By following the instructions below, this TV will automatically search and store all available channels for you. If at any time when using this menu you want to return to the normal TV picture, press the MENU button.



- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the symbol on the menu screen then move RIGHT to enter the 'PRESET' menu.
- 3 Move the OK button DOWN to select "Programme Setup" then move RIGHT to enter the 'PROGRAMME SETUP' menu.
- 4 Move the OK button RIGHT to highlight the brackets then move repeatedly DOWN to select 'Digital' if you wish to view digital channels or 'Analogue' if you wish to view analogue channels.
- 5 Press the OK button to confirm then move LEFT to display the PRESET menu.
- 6 Move the OK button UP to select 'Auto Programme' then move the OK button RIGHT to display the "AUTO PROGRAMME" menu.
- 7 Press the OK button to start the automatic tuning process. The word 'searching' now flashes on the menu screen and the TV starts to store all available channels. As the TV is searching, the bottom right corner of the menu screen displays its progress. Please be patient and do not press any buttons.
- 8 When the autotune procedure is complete, the PRESET menu appears on the screen and the channel currently being broadcast on programme 1 is displayed.
- 9 Press the MENU button to remove the 'PRESET' menu from the TV screen. You can now view the channels by pressing the PROGR +/- or the numbered buttons on the remote control.

- Notes:
- If you wish to stop the "Autotune" procedure, press the OK button then the MENU button on the remote control.
 - If, after tuning is complete, no digital programme is displayed on the TV, repeat steps 1-9 but select 'Analogue' in the Programme Setup menu screen. When digital programmes become available in your area, repeat steps 1-9 above and select 'Digital' in the Programme Setup menu screen.

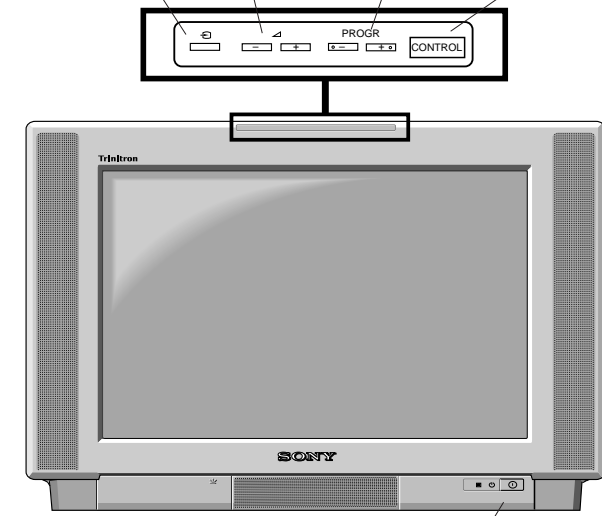


The operating instructions mentioned here are partial abstracts from the Operating Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Overview

Overview of the TV Set Functions

- Volume control buttons.** After pressing the CONTROL button on the top of the TV set, press to increase (+)/decrease (-) volume.
- Programme Up (+) or Down (-) buttons.** After pressing the CONTROL button on the top of the TV set, press to select TV channels.
- Video input button.** After pressing the CONTROL button on the top of the TV set, press to select the input signals from VCR etc.
- CONTROL button.** Press to activate and illuminate the control panel.



On/Off Switch. Press to switch TV on/off.

Overview of the Remote Control Buttons

To Mute Sound

Press to mute TV sound. Press again to restore the sound.

To Return to TV Mode

Press to return to the normal operation from teletext mode or standby mode.

These buttons have no function.

To Select Teletext

Press to select Teletext mode.

To Select ESG

Press to display the Event Schedule Guide. Press again to remove display.

To Freeze the picture

Press to freeze the picture. Press again to cancel freeze.

To Select Channels

Press numbered buttons to select channels.

For double-digit programme numbers, e.g. 23, press +/- first, then the buttons 2 and 3. If you enter an incorrect first digit, this should be corrected by entering another digit (0 - 9) and then selecting +/- button again to enter the programme number of your choice.

To Display Sound Menu

Press to change the sound settings. Press again to remove the display.

To Display Picture Menu

Press to change the picture settings. Press again to remove the display.

To Adjust TV Volume

Press to adjust the volume of the TV.

To Control Other Sony Equipment

With this selector you can control other Sony equipment. Open the remote control lid and set the selector according to the type of equipment you want to control then use the buttons on the remote control to operate the equipment:

- VTR1 : Sony Beta VCR
- VTR2 : Sony 8mm VCR
- VTR3 : Sony VHS VCR
- VTR4 : Sony Digital VCR
- MDP : Sony Multi Disc Player

To Reset to Factory Settings

Open the remote control lid and press to return picture and sound levels to factory settings.

VCR On/Off Button

Press to temporarily switch off VCR (if Sony VCR connected). Press again to switch on VCR.

To Temporarily Switch Off TV

Press to temporarily switch off TV. Press again to switch on TV from standby mode. *To save energy we recommend switching off completely when TV is not in use.* NOTE: After 15 - 30 minutes without a TV signal and without any button being pressed, the TV switches automatically into standby mode.

To Reveal On Screen Information

Press to reveal all on-screen indications. Press again to cancel.

To select input signal or freeze teletext

Press to select inputs from the TV sockets (see Using Optional Equipment section). In teletext mode, press to freeze the displayed page. Press once again to cancel.

To Return To Previous Channel

Press to return to the previous channel you were watching. Note: This can be done only after watching the present channel for 5 seconds.

To Change Screen Format

Press to change the size of the screen.

This button can be used in Teletext mode only. Please see Teletext section of manual for details.

To Select Menu Items

Use this OK button to select options available in the menu system of the TV.

To Select Channels

Press to select channels.

To Display the Menu

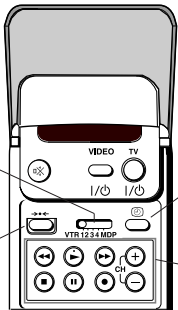
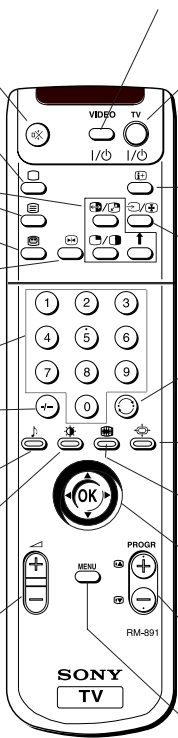
Press if you wish to use the TV menu system. Press again to remove the menu from the TV screen.

To Display the Time

Open the remote control lid and press to display the time on screen.

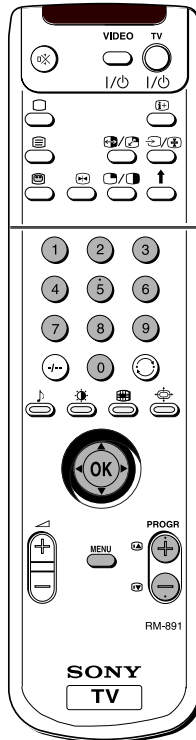
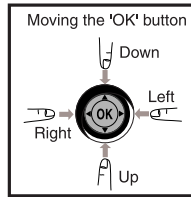
To Operate Video Equipment

Open the remote control lid and press these buttons to operate your video equipment (please refer to your VCR manual).

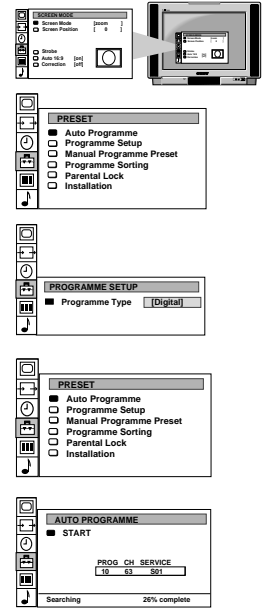


Selecting Analogue or Digital Channels

You have the option to view either digital channels or analogue channels.



- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the symbol on the menu screen then move RIGHT to enter the 'PRESET' menu.
- 3 Move the OK button DOWN to select "Programme Setup" then move RIGHT to enter the 'PROGRAMME SETUP' menu.
- 4 Move the OK button RIGHT to highlight the brackets then move repeatedly DOWN to select 'Digital' if you wish to view digital channels or 'Analogue' if you wish to view analogue channels.
- 5 Press the OK button to confirm your selection.
- 6 You can now view the channels by pressing the PROG +/- or the numbered buttons on the remote control.

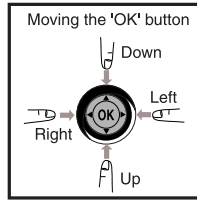


Selecting Digital/Analogue Channels via Remote Control

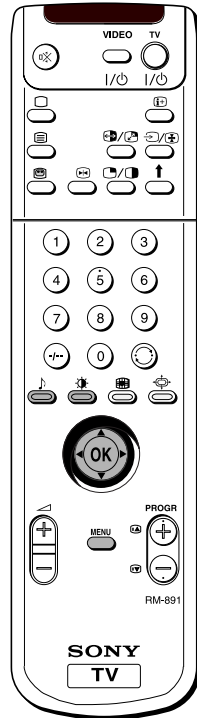
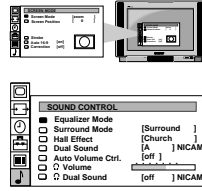
- 1 Press the OK button on the remote control to display the programme table on the TV screen.
- 2 Push the joystick UP or DOWN to select 'Digital/Analogue' then move RIGHT to enter your option.
- 3 Move the joystick UP or DOWN to select 'Digital' if you wish to view digital channels or 'Analogue' if you wish to view analogue channels.

Adjusting the Picture

Although the picture is adjusted at the factory, you can modify it to suit your own taste.



- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the ⏏ symbol on the TV screen then move RIGHT to display the 'PICTURE CONTROL' menu on the TV screen.
- 3 Move the OK button UP or DOWN to select the item on the screen you wish to adjust. For a description of the menu items and their effects, see the following table.
- 4 Move the OK button RIGHT to highlight the settings.
- 5 Adjust the setting by moving the OK button UP, DOWN, LEFT or RIGHT.
- 6 As soon as you have adjusted the item, press the OK button to confirm.
- 7 Repeat steps 3 to 6 to adjust the other items.
- 8 Press the MENU button to remove the display from the TV screen.



Picture Control

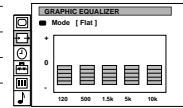
Item	Effect/Operation
Picture Mode	Select between the following sound settings ▼ Personal (for individual settings) Movie (for films) ▲ Live (for live broadcasts)
Contrast	◀ Less ▶ More
Brightness*	◀ Darker ▶ Brighter
Colour*	◀ Less ▶ More
Hue**	◀ Greenish ▶ Reddish
Sharpness*	◀ Softer ▶ Sharper
Reset	Resets picture to factory preset levels
AI (Artificial Intelligence)	▼ Off:normal ▲ On:automatic optimization of contrast level according to the TV signal.
Noise Reduction	▼ Off:normal ▲ On:reduces picture noise in case of a weak broadcast signal.
100Hz Mode	▼ 1:Normal ▲ 2:LFR (Line Flicker Reduction) off

* Only if "Personal" is selected in 'Picture Mode'.
 ** Available for NTSC colour system only.

Changing Picture and Sound Modes Quickly

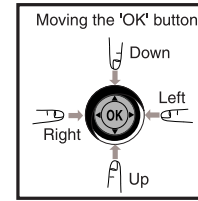
You can quickly change the Picture Mode or the Equalizer Mode without entering the 'PICTURE CONTROL' or 'SOUND CONTROL' menu screens.

- 1 Press the * symbol on the remote control for picture modes or the * symbol for equalizer modes.
- 2 Move the OK button on the remote control UP or DOWN to select the desired mode.
- 3 Press * or * again to remove the display from the TV screen.

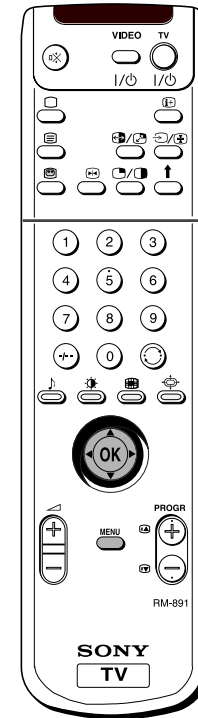
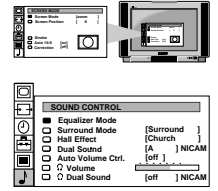


Adjusting the Sound

Although the sound is adjusted at the factory, you can modify it to suit your own taste.



- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the ⏏ symbol on the TV screen then move RIGHT to enter the 'SOUND CONTROL' menu on the TV screen.
- 3 Move the OK button UP or DOWN to select the item on the screen you wish to adjust. For a description of the menu items and their effects, see the following table.
- 4 Move the OK button RIGHT to highlight the settings.
- 5 Adjust the setting by moving the OK button UP, DOWN, LEFT or RIGHT.
- 6 As soon as you have adjusted the item, press the OK button to confirm.
- 7 Repeat steps 3 to 6 to adjust the other items.
- 8 Press the MENU button to remove the display from the TV screen.



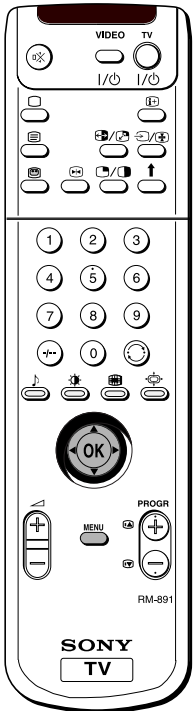
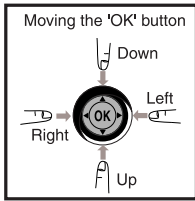
Sound Control

Item	Effect/Operation
Equalizer Mode	Select between the following sound settings ▲ Personal Vocal Jazz Rock Pop ▼ Flat (fixed setting, cannot be adjusted)
Equalizer adjustment	You can adjust the mode selected in Equalizer mode by cutting and boosting the 5 selected frequency bands. Only the changes made in Personal can be stored, the others return to factory setting. Select the desired bar by moving the OK button UP, DOWN, LEFT or RIGHT then press the OK button to confirm.
Surround Mode	▲ Off Hall ▼ Pro Logic
*Hall Effect	▲ Stadium Hall Church ▼ Disco
Dual Sound	• For a bilingual broadcast: A for channel 1 ◀ ▶ B for channel 2 • For a stereo broadcast: Stereo ◀ ▶ Mono
**Auto Volume Control	§ On: volume level of the channels will stay the same independent of the broadcast signal (e.g. in case of advertisements) 4 Off: volume level changes according to the broadcast signal
Headphones	Less ◀ ▶ More
2 Volume	• For a bilingual broadcast: A for channel 1 ◀ ▶ B for channel 2
2 Dual Sound	• For a stereo broadcast: Stereo ◀ ▶ Mono

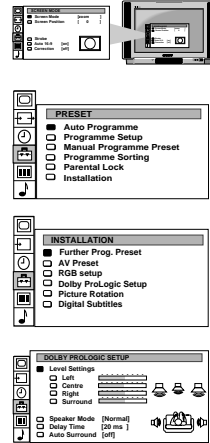
* Only if "Hall" is selected in Surround Mode.
 ** Only if Surround Mode is switched to "off"

Setting up Dolby ProLogic

Before listening to Dolby Surround sound, you can adapt the Dolby features to suit your own taste. It is normal to set up the levels and modes of the speakers only when installing the TV and the speakers or when changing the position of the speakers.

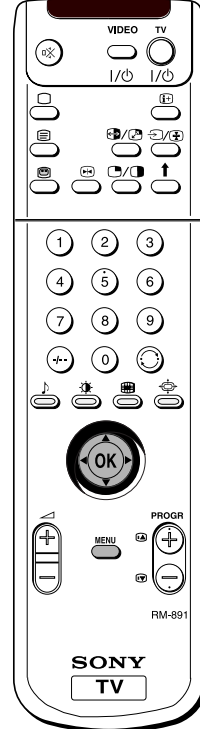
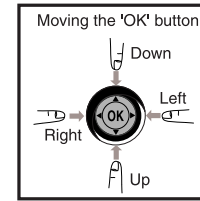


- Press the MENU button on the remote control to display the menu on the TV screen.
- Move the OK button on the remote control DOWN to select the symbol on the TV screen then move to RIGHT to confirm.
- Move the OK button DOWN to select 'Installation' then move the OK button RIGHT to enter.
- Move the OK button DOWN to select 'Dolby ProLogic Setup' then move RIGHT to enter.
- Select 'Level Settings' by moving the OK button UP or DOWN. Move the OK button to RIGHT to enter.
- Select Left (left speaker), Centre (centre speaker), Right (right speaker) or Surround (surround speakers) by moving the OK button DOWN then move the OK button RIGHT to confirm.
- Adjust the level by moving the OK button RIGHT or LEFT.
- After you have adjusted the level, press the OK button to confirm.
- Repeat steps 6 to 8 if you wish to adjust the sound levels of the other speakers (from your sitting position the sound output from all speakers should balance).
- Move the OK button LEFT.
- Select 'Speaker mode' by moving the OK button DOWN then move the OK button RIGHT to enter.
 - 12 Push the OK button repeatedly DOWN to select:
 - Normal - all speakers are activated
 - 3 Wide - surround speakers are not used, centre speaker carries full frequency response
 - 3 Normal - surround speakers are not used
 - Wide - wider bandwidth for centre speaker
 - Phantom - centre speaker is not used
 - Normal - all speakers are activated
 Press the OK button to confirm your choice.
- Select 'Delay Time' by moving the OK button DOWN then move to RIGHT to confirm. Adjust the delay time of the surround speakers by moving the OK button UP or DOWN (e.g. 20 ms for standard rooms, 30 ms for small rooms)
 - 15 ms n 20 ms n 25 ms n 30 ms
 Press the OK button to confirm your choice.
- Select 'Auto Surround' by moving the OK button DOWN then move to RIGHT to confirm. Move the OK button DOWN to select:
 - On - When receiving a Dolby Surround encoded programme, the TV switches automatically to Dolby Surround sound (depending on availability of service by broadcaster).
 - Off - normal
 Press the OK button to confirm your choice.
- Press the MENU button on the remote control to remove the menu from the TV screen.



Operating Screen Mode

Using this Screen Mode feature you can change the aspect ratio of the screen or reproduce the main picture image by image (Strobe function).



- Press the MENU button on the remote control to display the menu on the TV screen.
- Move the OK button on the remote control RIGHT to select 'Screen Mode', then move to RIGHT to select the brackets. Move the OK button repeatedly UP or DOWN to select one of the following modes:
 - smart - imitation of wide screen effect (16:9) for 4:3 broadcasts.
 - wide - for 16:9 broadcasts
 - zoom - imitation of wide screen effect (16:9) for movies broadcast in cinemascopic format.

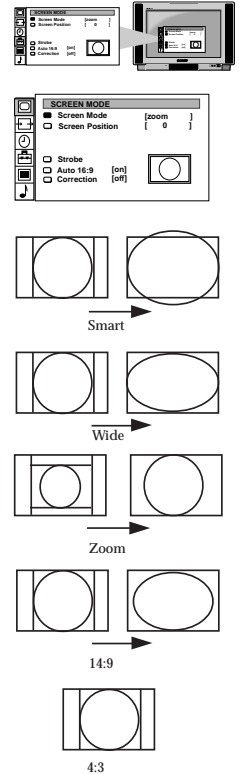
In zoom mode and 14:9 mode the top and bottom of the picture are cut off. Using 'Screen position' you can move the screen up- or downwards in order to see the cut-off parts (e.g. to read subtitles). Move the OK button DOWN to select 'Screen Position' then move to RIGHT to confirm. Move the OK button UP or DOWN to adjust the screen position (-4 to +4). Press the OK button to confirm.

 - 14:9 - compromise between 4:3 and 16:9 format
 - 4:3 - conventional 4:3 picture
- Press the OK button to confirm the selection.
- Strobe Mode

Move the OK button DOWN to select 'Strobe'. Press the OK button to confirm. The TV picture is now displayed image by image, creating a slow motion effect. Move the OK button UP or DOWN to select the speed of the motion. Press the OK button to cancel the strobe mode.
- Auto 16:9

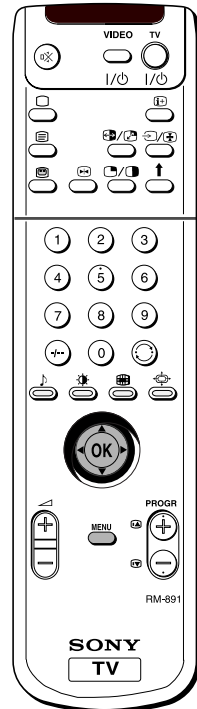
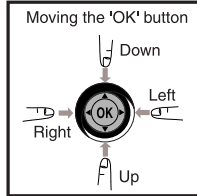
Move the OK button DOWN to select 'Auto 16:9' then move RIGHT to confirm. Move the OK button DOWN to select 'On' for automatic selection of format or 'Off' for normal mode. Press OK button to confirm.
- Correction (only for Auto 16:9)

In case of automatic format detection there are two possibilities for 4:3/14:9 signals: Set Correction to 'on' if you wish Smart mode to appear on the screen or set it to 'off' if you prefer 4:3/14:9 mode. Move the OK button DOWN to select 'Correction' then move RIGHT to confirm. Move the OK button DOWN to select 'On' or 'Off'. Press OK button to confirm.
- Press the MENU button to remove the menu from the TV screen.

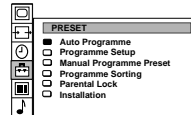
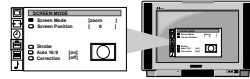


Sorting Programme Positions

After tuning you may wish to change the order in which the channels appear on the TV. You may wish for example to move the channel on programme number 8 to a different programme number.



- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the symbol on the menu screen then move RIGHT to enter.
- 3 Move the OK button DOWN to select 'Programme Sorting' then move RIGHT to confirm.
- 4 Move the OK button UP or DOWN to select the programme position of the channel you want to move eg PROG 8). Press the OK button to confirm.
- 5 Move the OK button UP or DOWN to select the new programme position for your selected channel. Press the OK button to confirm. Your selected channel has now moved to its new programme number.
- 6 Repeat steps 4 and 5 to sort other programme positions.
- 7 Press the MENU button to remove the menu from the TV screen.

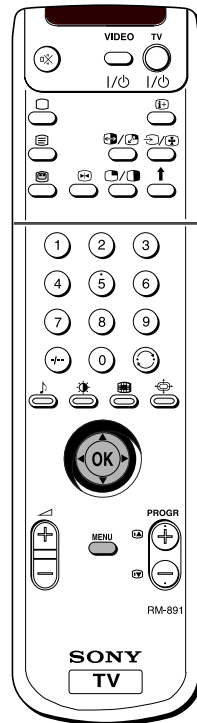
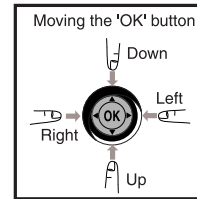


PROG	CH	SERVICE
7	C41	S02
8	C44	S03
9	C22	S04
10	C29	S05
11	C54	S06
12	C58	S01

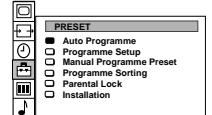
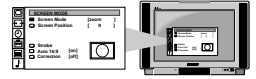
PROG	CH	SERVICE
8	C33	S01
7	C41	S02
8	C22	S04
9	C29	S05
10	C44	S03
11	C54	S06
12	C58	S01

Using Parental Lock

This function enables you to prevent children watching undesirable broadcasts.



- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the symbol on the menu screen then move RIGHT to confirm.
- 3 Move the OK button DOWN to select 'Parental Lock' then move RIGHT to confirm.
- 4 Move the OK button DOWN to select the channel you want to block. Press the OK button to confirm. The symbol appears before the programme position to indicate that this channel is now blocked. To unblock the channel, press the OK button again. The symbol disappears.
- 5 Repeat step 4 to block other channels.
- 6 Press the MENU button to remove the menu from the TV screen.

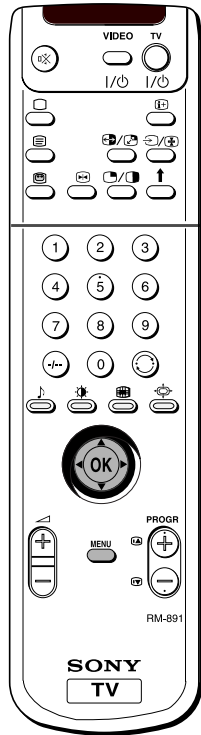
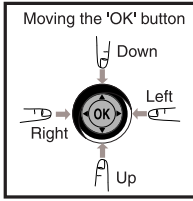



PROG	CH	SERVICE
1	C44	S01
2	C51	S02
B3	C41	S03
4	C47	S04
5	C29	S05
6	C54	S06
7	C58	S01

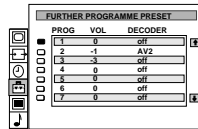
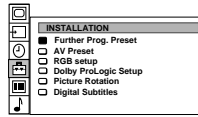
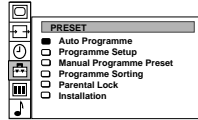
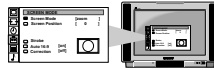
Using Further Programme Preset

With this feature you can

- a) individually adjust and store the volume level of each channel (Volume Offset).
- b) preset the AV output for the programme positions of channels with scrambled signals (e.g. from a Pay TV decoder). In this way a connected VCR records the unscrambled signal.

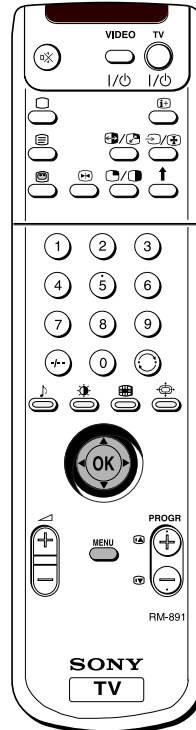
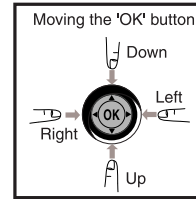



- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the symbol  on the menu screen then move RIGHT to confirm.
- 3 Move the OK button DOWN to select 'Installation' then move RIGHT to confirm.
- 4 Move the OK button DOWN to select 'Further Prog. Preset' then move RIGHT to confirm.
- 5 Move the OK button UP or DOWN to select the programme position you want then move repeatedly RIGHT to select:
 - a) VOL (Volume Offset), b) DECODER. The selected item changes colour.
- 6a) VOL
Move the OK button UP or DOWN to adjust the volume for the selected programme position within a range of -7 to +7. Press the OK button to confirm. Repeat steps 5 and 6 to set the volume level for other programme positions.
- 6b) DECODER
Move the OK button repeatedly DOWN to select AV1 or AV2 for the programme position and press the OK button to confirm. Repeat steps 5 and 6 to preset the AV output for other programme positions.
- 7 Press the MENU button to remove the menu from the TV screen.

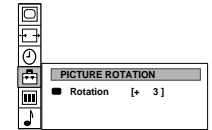
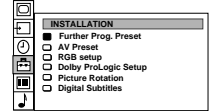
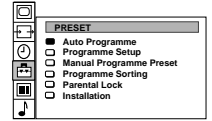
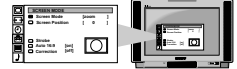


Adjusting the Picture Rotation

If, due to the earth's magnetic field, the picture slants, you can use this function to readjust the picture.

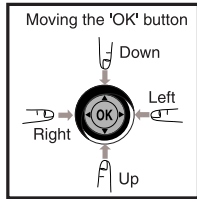


- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the symbol  on the menu screen then move to RIGHT to enter.
- 3 Move the OK button DOWN to select 'Installation' then move RIGHT to enter.
- 4 Move the OK button DOWN to select 'Picture Rotation' then move RIGHT to enter.
- 5 Move the OK button RIGHT then move UP or DOWN to adjust the picture rotation. The adjusting range is -4 to +4. Press the OK button to enter.
- 6 Press the MENU button to remove the menu from the TV screen.

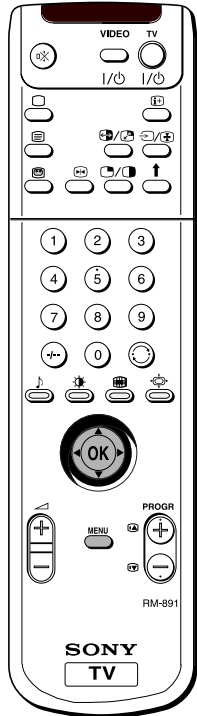


Displaying Subtitles

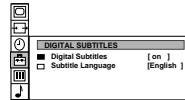
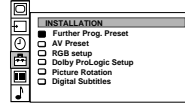
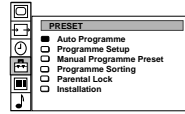
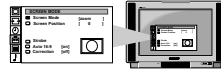
With this feature you can view subtitles on the TV screen when watching digital channels. When watching analogue channels you can view subtitles via the teletext menu screen (see the Teletext section of this instruction manual).



- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the symbol on the menu screen then move RIGHT to enter.
- 3 Move the OK button DOWN to select 'Installation' then move RIGHT to enter.

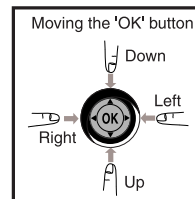


- 4 Move the OK button DOWN to select 'Digital Subtitles' then move RIGHT to enter.
- 5 Move the OK button RIGHT to select 'Digital Subtitles' then move DOWN to switch on/off digital subtitles.
- 6 Press the OK button to enter.
- 7 If you have switched on the subtitles and wish to change the subtitle language, move the OK button DOWN to select 'Subtitle Language' then move RIGHT to highlight the language options.
- 8 Move the OK button repeatedly DOWN to select your chosen language then press the OK button to confirm your choice.
- 9 Press the MENU button to remove the menu from the TV screen.

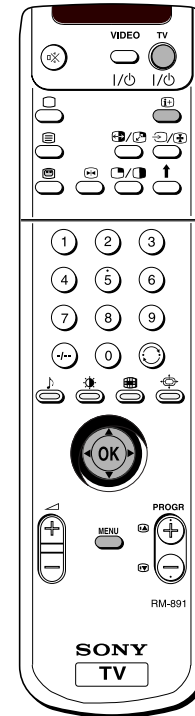


Using the Sleep Timer

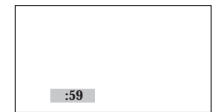
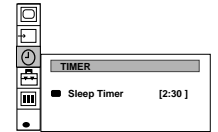
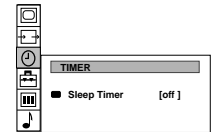
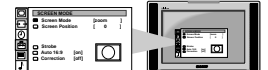
The TV can be set to switch automatically to standby mode after a length of time chosen by you. You may set the time in 15 minute steps up to 4 hours.



- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the symbol on the TV screen, then move RIGHT twice.
- 3 Move the OK button UP or DOWN repeatedly until the required amount of time delay appears on the screen.



- 4 Once the time delay has been selected, press the OK button to enter.
 - 5 Press the MENU button to remove the menu from the TV screen.
- One minute before standby, the display shown appears on the screen.

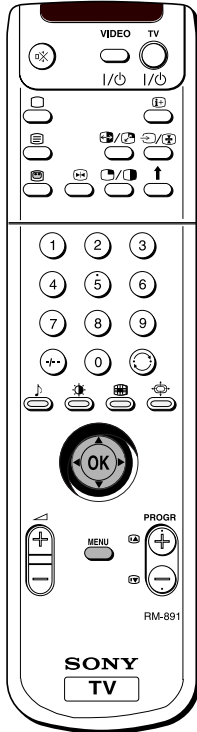
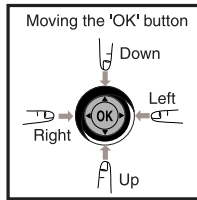


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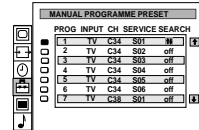
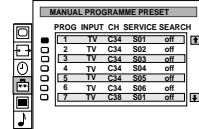
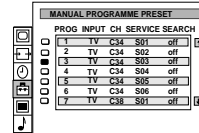
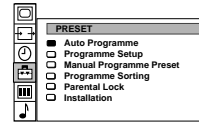
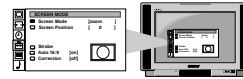
- When watching TV, press the button to display time remaining.
- To return to normal operation from standby mode, press the button.

Manually Tuning the TV

You have already tuned the TV to receive all available channels using the 'Automatically Tuning the TV' procedure at the start of this manual. You can however carry out this operation manually using the following instructions.

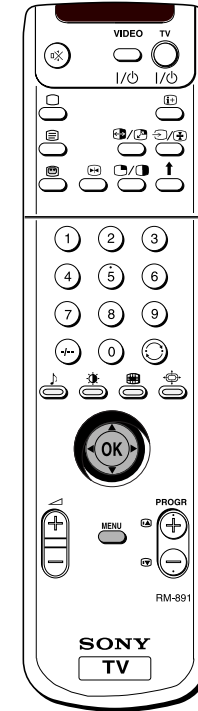
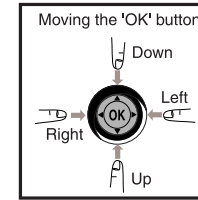


- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the symbol on the menu screen then move RIGHT to enter.
- 3 Move the OK button DOWN to select 'Manual Programme Preset' then move RIGHT to enter.
- 4 Move the OK button UP or DOWN to select a programme number for your channel (eg PROGR 1 for BBC1) then move RIGHT to enter.
- 5 Move the OK button repeatedly RIGHT until appears in the SEARCH column.
- 6 Move the OK button UP or DOWN to search for a channel.
- 7 If you do not wish to store this channel on the programme number you selected, move the OK button UP or DOWN to continue searching for the desired channel.
- 8 If this is the channel you wish to store, press the OK button.
- 9 Repeat steps 4 to 8 if you wish to store more channels then press the MENU button to remove the menu from the TV screen.

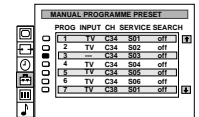
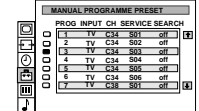
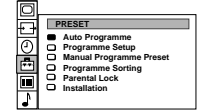
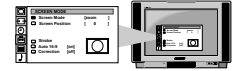


Skipping Programme Positions

This function enables you to skip unused programme positions when selecting them with the PROG +/- buttons. However, by using the number buttons you can still select the skipped programme position.

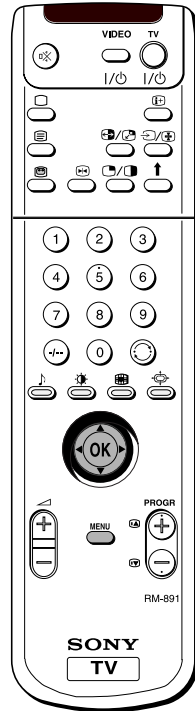
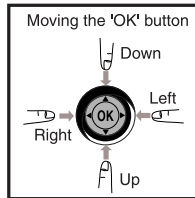


- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button on the remote control DOWN to select the symbol on the menu screen then move RIGHT to enter.
- 3 Move the OK button DOWN to select 'Manual Programme Preset' then move RIGHT to enter.
- 4 Move the OK button UP or DOWN to select the programme position you want to skip then move RIGHT to enter.
- 5 Move the OK button DOWN to select '---' in the position INPUT. Press the OK button to enter.
- 6 Repeat steps 4 and 5 to skip other programme positions.
- 7 Press the MENU button to remove the menu from the TV screen.

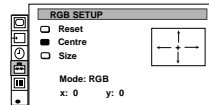
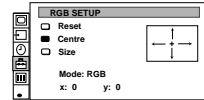
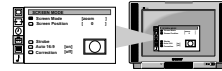


Adjusting the TV Picture for an RGB Source

After connecting an RGB source such as a playstation to the TV, you may need to adjust your TV picture.



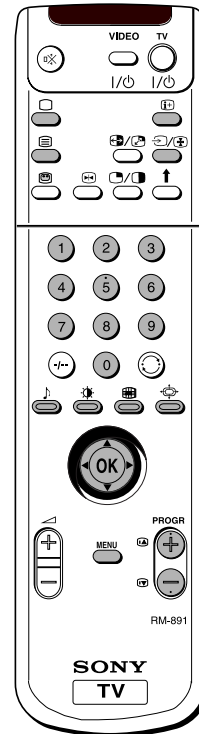
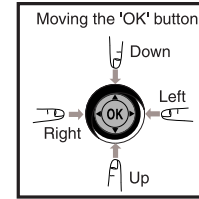
- 1 Press the * button repeatedly on your remote control to display the * symbol on the TV screen.
- 2 Press the MENU button on your remote control to display the menu on the TV screen.
- 3 Move the OK button DOWN to select the symbol on the menu screen then move RIGHT to enter the 'PRESET' m,enu.
- 4 Move the OK button DOWN to select 'Installation' on the TV screen then move RIGHT to enter the 'INSTALLATION' menu.
- 5 Move the OK button DOWN to select 'RGB SetUp' on the TV screen then move RIGHT to enter the 'RGB SETUP' menu.
- 6 Move the OK button RIGHT to select 'H Centre' on the screen then move UP or DOWN to adjust the centre of the picture over a range of -20 to +20.
- 7 Press the OK button to confirm the range.
- 8 Move the OK button DOWN to select 'H Size' then move RIGHT to highlight the range.
- 9 Move the OK button UP or DOWN to adjust the horizontal slant of the picture over a range of -20 to +20.
- 10 Press the OK button to confirm the new range.
- 11 Press the MENU button to remove the menu from the TV screen.



Teletext

Viewing Standard Teletext

Standard Teletext is an information service transmitted by broadcasters which can be viewed on most of your traditional analogue channels.



Selecting Teletext

- 1 When viewing analogue channels, press a number button on the remote control to select the channel which carries the teletext service you wish to receive.
- 2 Press the button on the remote control to switch on teletext. Press the button again to superimpose teletext on to the TV screen.
- 3 Input three digits for the page number using the numbered buttons on the control. If you make a mistake, type in any three digits then re-enter the correct page number.



Using Other Teletext Functions

Page Catching

Input a teletext page number. Press the OK button. 'Page Catching' is displayed at the top of the page. Move the OK button UP or DOWN to select the page number you require. Press the OK button. The requested page is displayed after some seconds.



To Move to Next or Preceding Page

Press or on the control to select the previous or next page.

To Freeze a Teletext Page

Press on the control to freeze the page. Press again to cancel the freeze.

Revealing concealed information (eg: answers to a quiz).

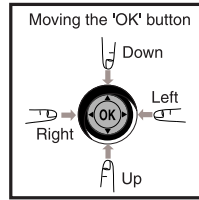
Press to reveal information. Press again to conceal the information.

Using colour buttons to access pages

When the colour coded menu appears at the bottom of a page, press the colour button (green, red, yellow or blue) on the control to access the corresponding page.

Viewing Standard Teletext

Select further standard teletext functions as follows:



Using the Teletext Menu

- 1 With teletext on the TV screen, press the MENU button on the remote control to display the teletext menu.
- 2 Move the OK button on the remote control DOWN to select the teletext function you want then move RIGHT to confirm your choice.

Preset User Pages...

For quick access to the pages you frequently use, you can store your favourite teletext pages.

- 1 Push to ▼ to select the bank (from A to E) in which you want to store the pages then push to ► to confirm.
- 2 Push to ▼ to select the three digits of your 6 favourite pages in columns P1 -P6. Push to ► after selecting each digit. Press the OK button to confirm your selections.
- 3 Push to ▼ to select 'Allocate Bank' then push to ► to confirm.
- 4 Push to ▼ to select the programme position which is carrying the teletext service containing your favourite pages, then push to ► to confirm.
- 5 Push to ▼ to select the bank chosen in step 1 then press the OK button to confirm.
- 6 Repeat steps 1 to 5 if you wish to store pages in the other four available banks.

User Pages...

- 7 Push to ► twice to display the Teletext menu screen.
- 8 Push to ▼ to select User Pages then push to ► to confirm.
- 9 Push to ▼ to select a favourite page then press the OK button to display the page.

Index

The index gives you an overview of the teletext contents.

Top/Bottom/Full

For easier reading, you can enlarge the teletext page. Push the OK button to ▲ to enlarge the upper half, push to ▼ to enlarge the lower half. Press the OK button to resume the normal display.

Text Clear

After selecting this function, you can watch a TV programme while waiting for a requested teletext page to be captured. When the page is available, it will be displayed.

Subtitles

Check with your teletext service for information about subtitled TV programmes. After selecting the function the subtitles are displayed. Press the function again to remove the subtitles.

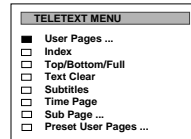
Time Page

Check with your teletext service about the availability of time coded pages. If available, you can call up a page at a certain time.

- 1 With the Time Page menu on the TV screen, push to ▼ then push to ▼ to select 'on'. Push to ► to confirm.
- 2 Push to ▼ to enter the three digits of the page you want (eg 301) and the four digits of the desired time (eg 18:54). Push to ► after each digit. Press the OK button to confirm. At the requested time, the page you selected is displayed.

Subpage

Using this function you can select the subpages, if available, of a particular teletext page. After selecting the function push to ► to access the various subpages. Select the function again to cancel the request.



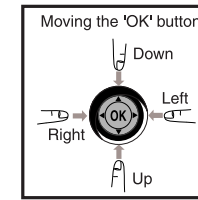
PRESET USER PAGES						
BANK	P1	P2	P3	P4	P5	P6
■ A	232	102	154	...	...	160
□ B	151	100	252	...	...	380
□ C	...	...	...	...	...	...
□ D	...	...	...	...	...	...
□ E	...	120	...	...	...	...
Allocate Bank						
□	Prog Label	Bank	Prog Label	Bank		
□	1	BBC1	A	5	SAC	A
□	2	BBC2	B	6	...	...
□	3	ITV	...	7	...	...
□	4	CH4	...	8	...	...

USER PAGES		BANK A	
■	Page 102		
□	Page 200		
□	Page 354		
□	Page 100		
□	Page 380		
□	Page 124		

TIME PAGE	
■	off - - - -

Viewing Digital Teletext

Most of the digital TV channels broadcast information via teletext.

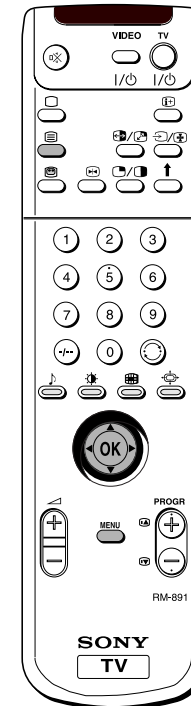


Selecting Teletext

- 1 To view the digital teletext service, firstly select the dedicated teletext channel.
- 2 Individual Teletext pages are then selected by using the UP, DOWN, LEFT or RIGHT buttons to guide the on-screen cursor to the required area of the screen. Pressing the OK button then displays the chosen information.
- 3 Alternatively, use the numeric buttons 0-9 to directly enter the number of the page you require.
- 4 When you have finished viewing Teletext, select an alternative channel in the normal manner.

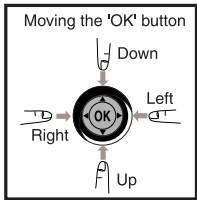
Normal Teletext services may also be available on other digital channels and are selected using the button.

- 1 Press a number button on the remote control to select the channel which carries the teletext service you wish to receive.
- 2 Press the button on the remote control to switch on teletext. Press the button again to superimpose teletext on to the TV screen.
- 3 Input three digits for the page number using the numbered buttons on the control. If you make a mistake, type in any three digits then reenter the correct page number.
- 4 Press the button to switch off teletext.



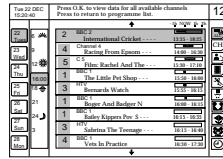
Event Schedule Guide (ESG)

The Event Schedule Guide (ESG) is an electronic guide which provides programme information for all channels supporting ESG.



Displaying the ESG

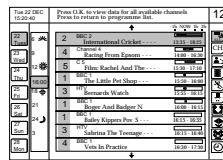
- 1 Press the **OK** button on the remote control to display the programme guide on the TV screen.
- 2 Move the OK button on the remote control UP, DOWN, LEFT or RIGHT to move the on-screen cursor around the guide.
- 3 Press the **OK** button again to remove the programme guide from the TV screen.



Viewing Information on the ESG

You can alter the type of information presented on the ESG by changing data in the date, time and genre columns. You can for example display programme information for all sports programmes being shown tomorrow from 5.00pm onwards.

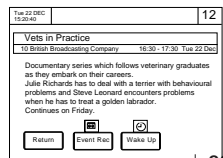
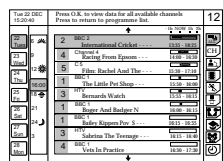
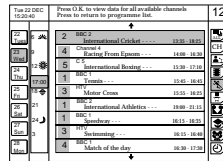
- 1 Press the **OK** button on the remote control to display the ESG on the TV screen.
- 2 Move the OK button on the remote control RIGHT or LEFT to highlight the 'date' column then move the OK button UP or DOWN to select your chosen date.
- 3 Move the OK button RIGHT or LEFT to highlight the 'time' column then move the OK button UP or DOWN to select your chosen time.
- 4 Move the OK button RIGHT. The ESG will display programme information according to the date and time you selected.
- 5 Move the OK button RIGHT to highlight the 'Genre' column then move UP or DOWN to select the type of programme you want to display. You have the choice between Movies, News, Entertainment, Sport, Children Programmes, and Education.



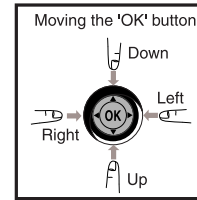
- 6 Move the OK button RIGHT or LEFT to update the programme information accordingly. If you selected tomorrow's date, 17:00 and Sport, you should now be able to view all the sports programmes being shown tomorrow from 5.00 pm onwards.
- 7 Press the **OK** button on the remote control to remove the ESG from the TV screen.

Recording Programmes

- 1 Press the **OK** button on the remote control to display the ESG on the TV screen.
- 2 Move the OK button RIGHT or LEFT to highlight the 'Programme' column then move the OK button UP or DOWN to select your desired programme.
- 3 Press the OK button. If the programme is currently being broadcast, this programme will be displayed on your TV. If not, the 'TIMER' menu will be displayed on the TV screen.
- 4 At the bottom of the timer page you can see the symbols **Return** (back to ESG), **Event Rec** (to record a programme) or **Wake Up** (to set the programme to switch on automatically).
- 5 Move the OK button LEFT or RIGHT to select one of these symbols then press the OK button to confirm your selection. The ESG display appears on screen with the relevant icon appearing next to the programme you selected in point 2.

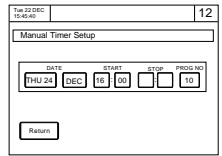
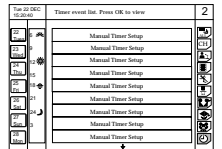
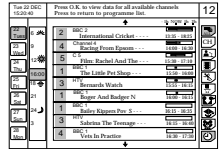
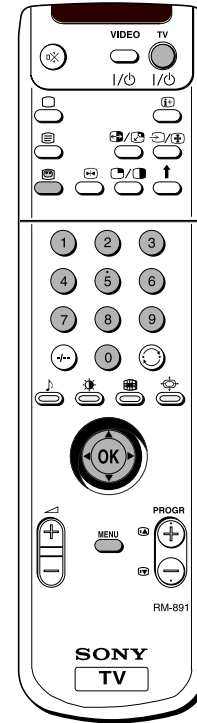


Event Schedule Guide (ESG)



Setting The Manual Timer


- 1 Press the **OK** button on the remote control to display the ESG on the TV screen.
- 2 Move the OK button RIGHT or LEFT to highlight the 'programme type' column then move the OK button DOWN to select the timer symbol **⌚**.
- 3 Press the OK button to display a screen of 8 programme slots, each one indicating that it is either free for programming, or that it has a programme already stored in it.
- 4 Move the OK button UP or DOWN to select a free row then press the OK button to display the Set Timer screen. This screen asks you to confirm the date, programme number, start time and end time.
- 5 Move the OK button UP to select the date then press the number keys on the control to enter the date.
- 6 Move the OK button RIGHT to confirm the date then move the OK button UP or DOWN to select the month.
- 7 Move the OK button RIGHT to confirm the month and to enter the start time.
- 8 Press the number keys to enter the time when you want the set top box to switch on, preferably several minutes before you set your video recorder to start recording. If you wish to switch on at 8.25 pm, enter 2025.
- 9 Move the OK button RIGHT to confirm the entry and to enter the switch-off time.
- 10 Press the number keys to enter the time you want your set top box to switch off, preferably after your video has stopped recording. Again, you should enter 4 digits and in the 24 hour format.
- 11 Move the OK button RIGHT to confirm the entry and to enter the programme number.
- 12 Press the OK button to save the settings then press the RETURN button to return to the Manual Timer Setup menu.
- 13 Select another available slot if you wish to record a further programme.
- 14 Move the OK button RIGHT to enter the 'programme type' column then press the OK button to return to the ESG.
- 15 If you have finished watching programmes on your set top box, you should press the I/O button to leave your box in standby mode for the timer settings to be activated. If, however, you wish to continue watching other digital channels after setting a timer, you can do so by changing channels in the normal way. If you are watching another digital channel when the timer is due to start the timer alarm will sound and present you with the option of switching channels or continuing to watch the current channel.









Using Optional Equipment

Using the following instructions, you can connect a wide range of optional equipment to your TV.

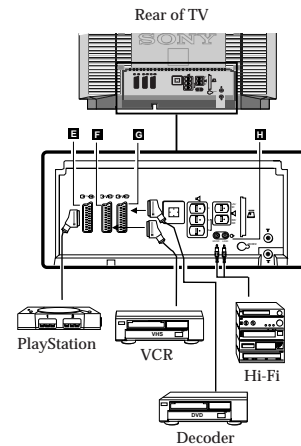
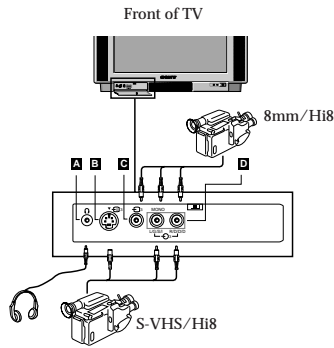
Connecting Equipment to the TV

- 1 Connect your equipment to the designated TV socket.
- 2 Press the MENU button on the remote control to display the menu on the TV screen.
- 3 Move the OK button on your remote control DOWN to select the symbol  on the menu screen then move RIGHT to enter the 'PRESET' menu.
- 4 Move the OK button DOWN to select 'Installation' then move RIGHT to enter the 'INSTALLATION' menu.
- 5 Move the OK button DOWN to select 'AV Preset' then move RIGHT to enter the 'AV PRESET' menu.
- 6 Move the OK button DOWN to select the socket that is being used to connect the optional equipment:

Socket	Symbol	Input signals
AV1		• Audio/video input signal through the Euro AV connector E
AV2		• Audio/video input signal through the Euro AV connector F
AV3		• Audio/video input signal through the sockets B , C or D
AV4		• Audio/video input signal through the Euro AV connector G

- 7 Move the OK button RIGHT to select the 'SOURCE' column.
- 8 Move the OK button DOWN to select 'AV' for this column then press the OK button to confirm.
- 9 Press the MENU button to remove the menu display from the TV screen.
- 10 Press the  button repeatedly on your remote control until the correct input symbol for your equipment appears on the TV screen (refer to the table above).
- 11 Switch on the connected equipment.
- 12 To return to normal TV picture, press the  button on the remote control.

Note: To avoid picture distortion, do not connect equipment to the **B** and **C** sockets when the scart connector **E**, **F** or **G** is in use.



Using Optional Equipment

Additional Information When Connecting Equipment

Connecting A VCR

We recommend you connect your VCR to the **F** socket using a scart lead. If you do not have a scart lead, use the 'Manually Tuning the TV' section of this instruction manual to tune in the VCR signal to TV programme number '0'.


Connecting Headphones

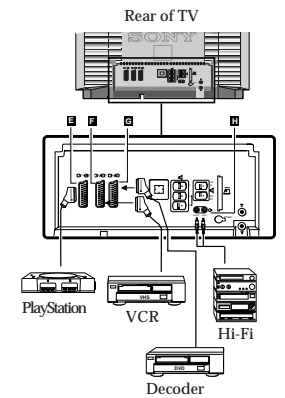
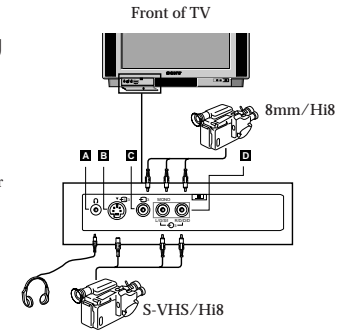
Plug in your headphones to the **A** socket on the front of the TV set.

Connecting to External Audio Equipment




Plug in your Hi-Fi equipment to the **H** sockets on the rear of the TV if you wish to amplify the audio output from the TV.

For Mono Equipment

Connect the phono plug to the L/G/S/I socket on the front of the TV and select the  input signal using the instructions on the previous page. Finally, refer to the 'Adjusting the Sound' section of this manual and select 'A' on the sound menu screen.

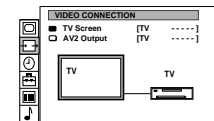
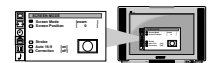


Selecting The Output Source For The Scart Socket **F**

- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Move the OK button DOWN to select the  symbol on the menu screen then move RIGHT to display the 'VIDEO CONNECTION' menu screen.
- 3 Move the OK button DOWN to highlight 'TV Screen' (input source for the TV screen) or 'AV2 Output' (output source for -2/2) then move RIGHT to confirm.
- 4 Move the OK button DOWN to select the desired source (see below) then press the OK button to confirm:

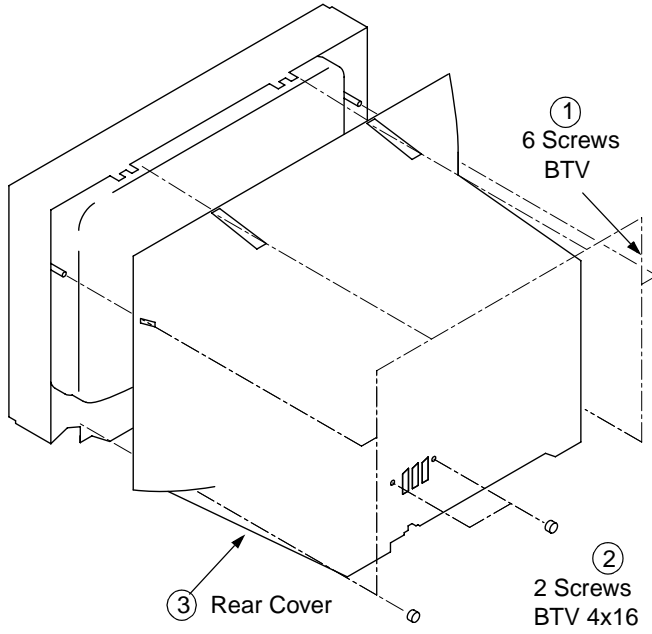
TV Screen: TV, AV1, RGB, AV2, YC2, AV3, YC3, AV4, YC4
 Output: TV, AV1, AV2, YC2, AV3, YC3, AV4, YC4

- 5 Press the MENU button to remove the menu from the TV screen.

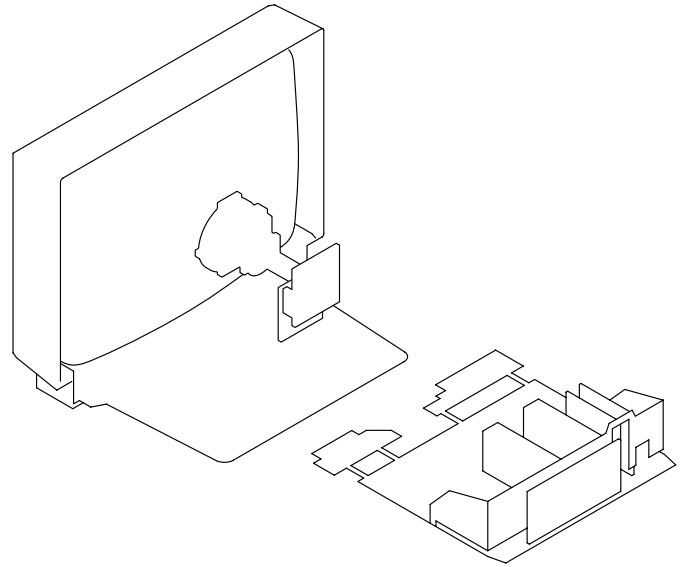


SECTION 2 DISASSEMBLY

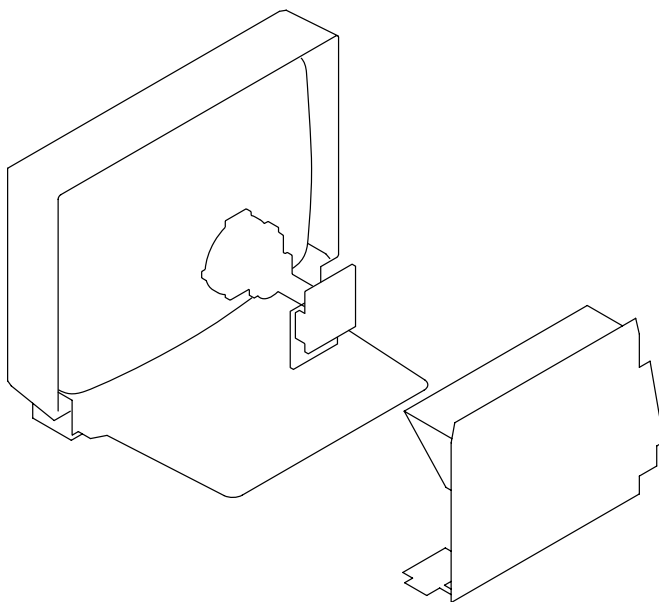
2-1. REAR COVER REMOVAL



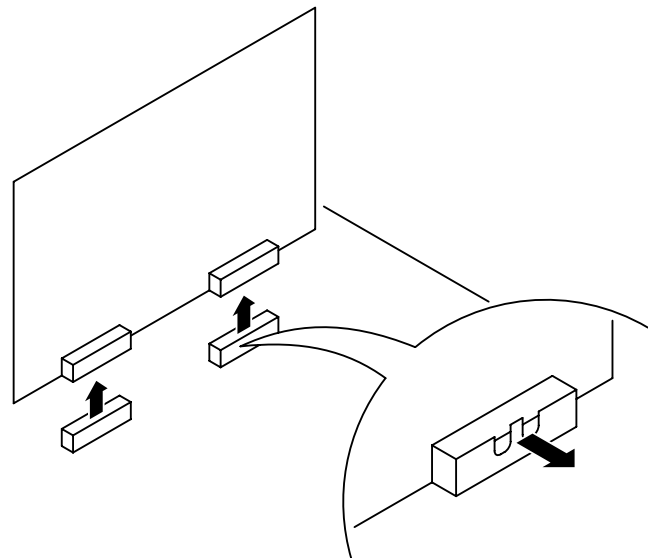
2-2. CHASSIS ASSY REMOVAL



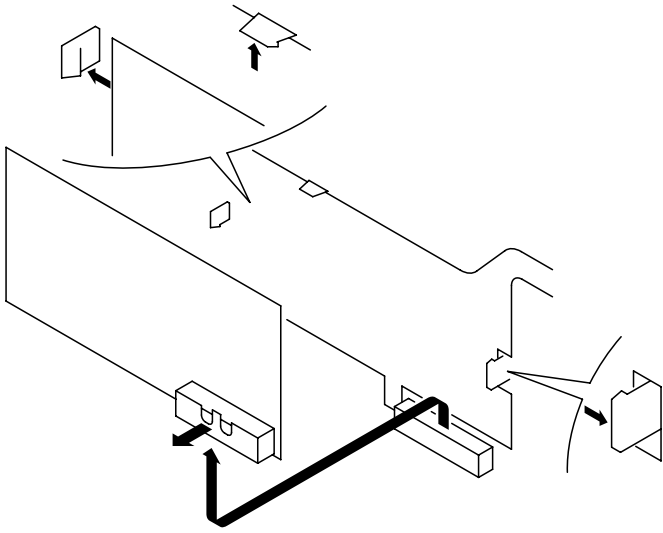
2-3. SERVICE POSITION



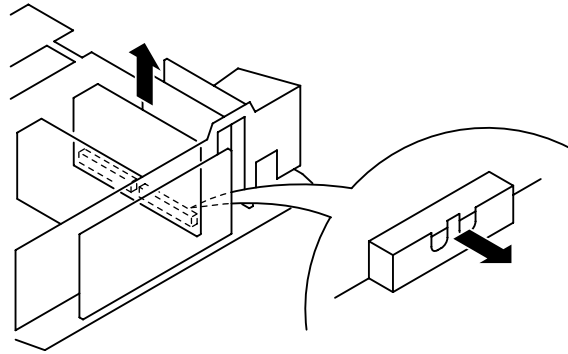
2-4. A1 BOARD REMOVAL



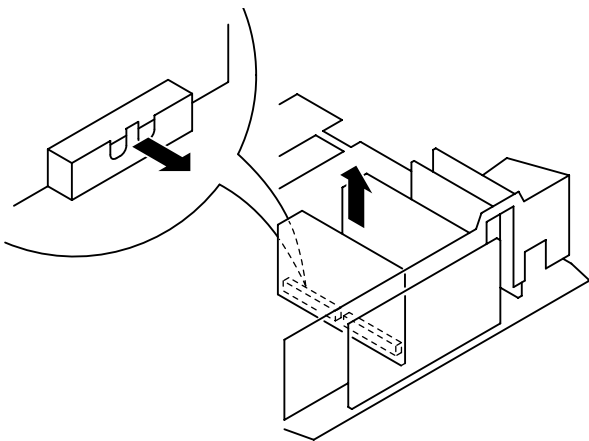
2-5. J BOARD REMOVAL



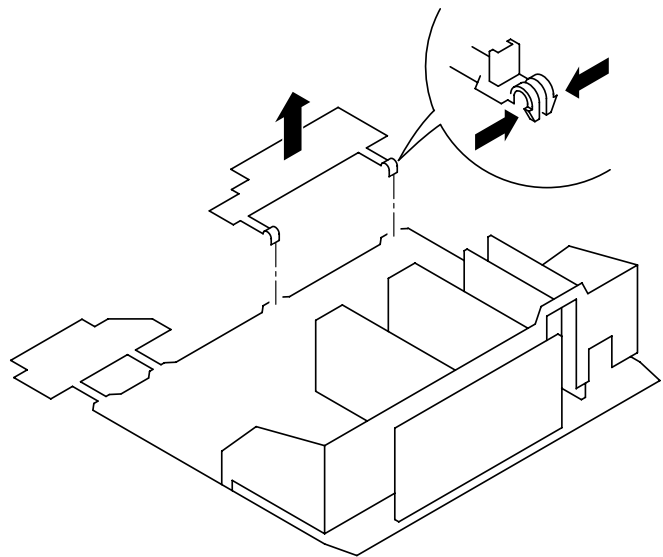
2-6. B BOARD REMOVAL



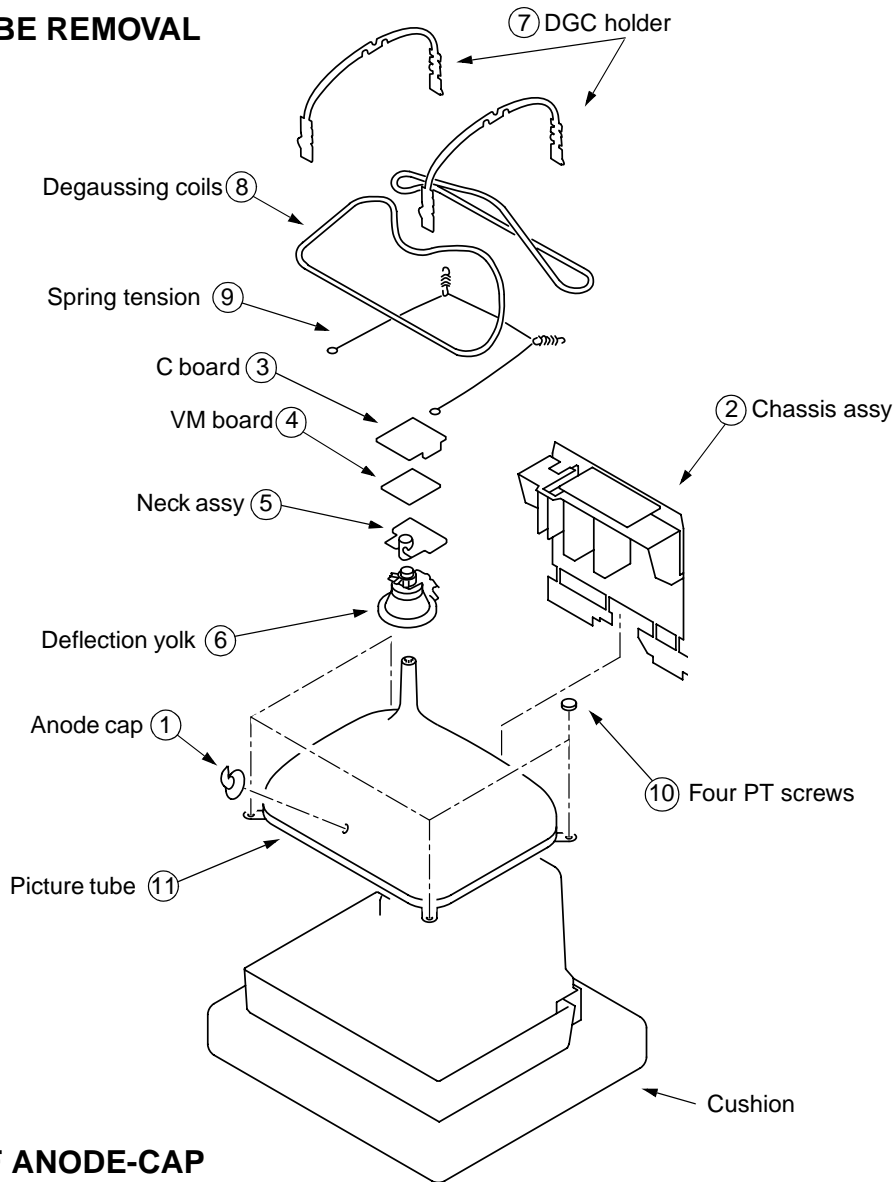
2-7. D1 BOARD REMOVAL



2-8. H BRACKET REMOVAL



2-9. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

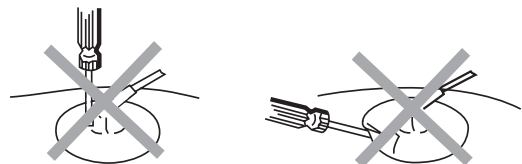
Note : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

* REMOVING PROCEDURES.

-
- ① Turn up one side of the rubber cap in the direction indicated by the arrow **a**
 - ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow **b**
 - 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 **c**

• HOW TO HANDLE THE ANODE-CAP

- ① To prevent damaging the surface of the anode-cap do not use sharp materials.
- ② Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- ③ A metal fitting called a shatter hook terminal is fitted inside the rubber cap. Do not turn the rubber foot over excessively this may cause damage if the shatter hook sticks out.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast normal
 Brightness normal

Carry out the following adjustments in this order:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White balance

- Note:** Test equipment required
1. Color bar/pattern generator.
 2. Degausser.
 3. Digital multimeter.
 4. Oscilloscope.

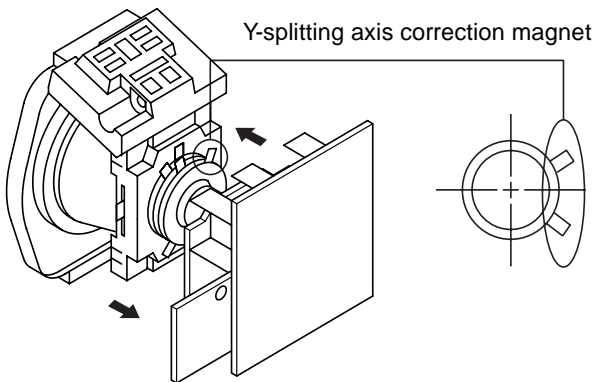
3-1. BEAM LANDING

Preparation:

1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the set's power and degauss with the degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis

1. Input a crosshatch signal from the pattern generator.
2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
3. Position the neck assembly as indicated in Fig.3-2.
4. Move the deflection yolk as far forward as is possible.
5. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly.
6. Return the deflection yolk to its original position.



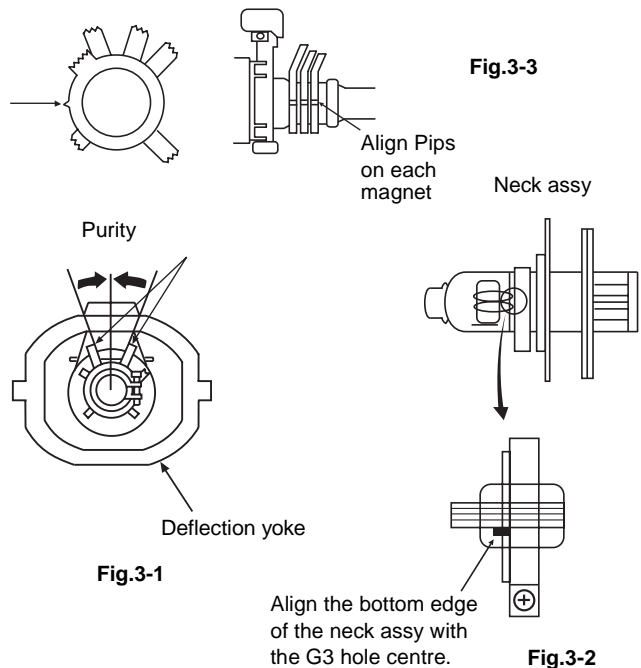
Caution :

High voltages are present on the Deflection yolk terminals - take care when handling the Deflection yolk whilst carrying out adjustments.

(2) Landing

Note : Before carrying out the following adjustments adjust the magnets as indicated below [See Fig.3-3].

1. Input an all-white signal from the pattern generator. Maximize the picture setting and adjust the Brightness setting.
2. Rough-adjust the focus and horizontal convergence.
3. Loosen the deflection yolk screws and align the purity adjustment knob to its central position. [See Fig.3-1].
4. Switch from the all-white pattern to an all-green pattern.
5. Move the deflection yolk backwards and adjust with the purity magnet so that the green is at the centre and it aligns symmetrically. [See Fig.3-4].
6. Move the deflection yolk forward and adjust so that the entire screen becomes green.
7. Switch the raster signal to red, then to blue and verify the landing condition.
8. When the position of the deflection yolk has been determined, fasten the deflection yolk with the screw.
9. If the beam does not land correctly in all the corners of the screen, use magnets to correct it. [See Fig.3-5].



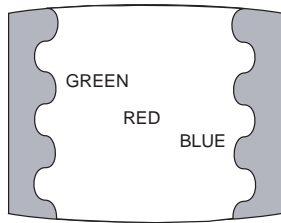


Fig.3-4

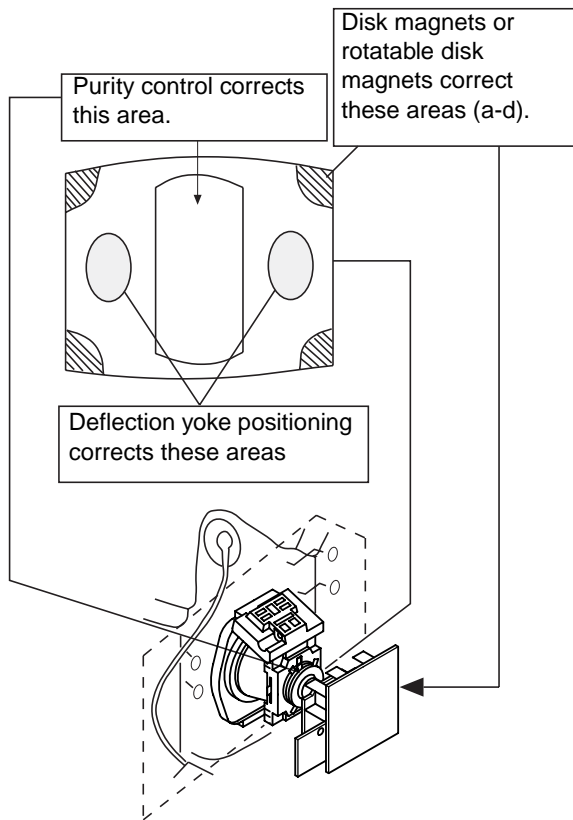
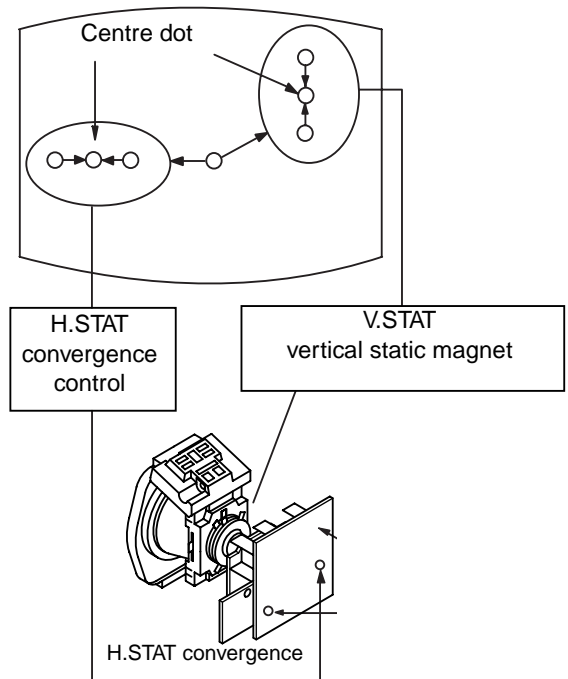


Fig. 3-5

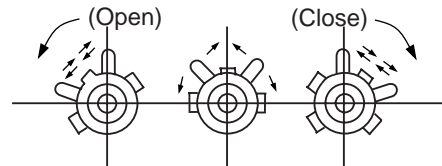
3-2. CONVERGENCE

(1) Screen centre convergence [Static convergence]

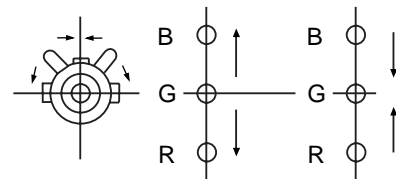
1. Input a dot signal from the pattern generator. Normalize the picture setting.
2. [Moving horizontally], adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the centre of the screen.
3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.



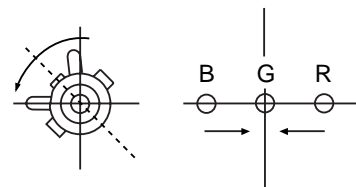
- If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking.
[Adjust the convergence by tilting the V.STAT convergence or by opening and closing the V.STAT convergence.]



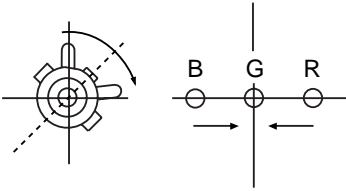
4. Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.
- a). By opening or closing the V.STAT magnet, the red, green and blue dots move as indicated below.



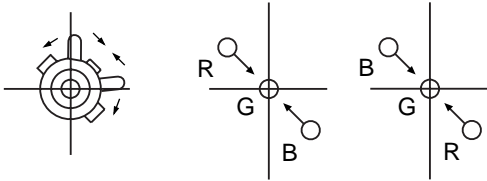
- b). By rotating the V.STAT magnet counter clockwise, the red, green and blue dots move as indicated below.



- c). By rotating the V.STAT magnet clockwise, the red, green and blue dots move in the direction indicated below.



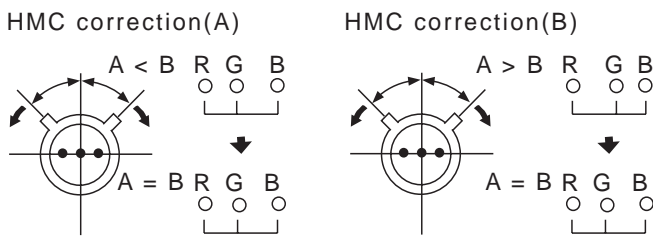
- d). By opening or closing the V.STAT magnet, the red, green and blue dots move in the direction indicated below.



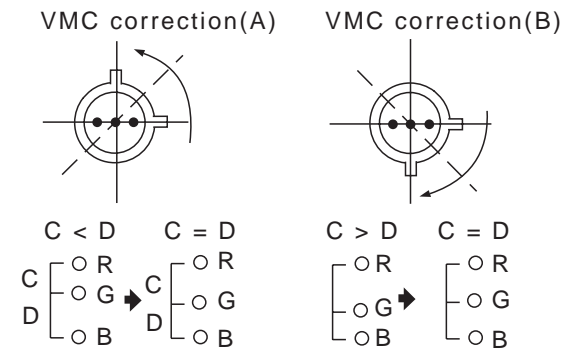
Note : If the blue dot does not coincide with the red and green points correct the points by using the BMC [Hexapole] magnet.

5. Correction for HMC [horizontal mis-convergence] and VMC [vertical mis-convergence] by using the BMC [Hexapole] magnet.

- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.

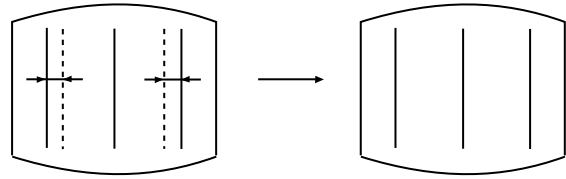


- b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.



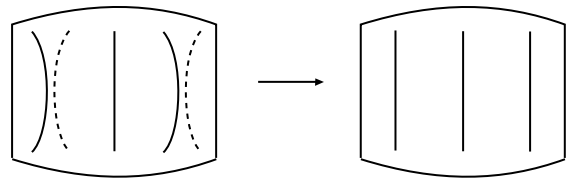
(2) Dynamic convergence

HTIL

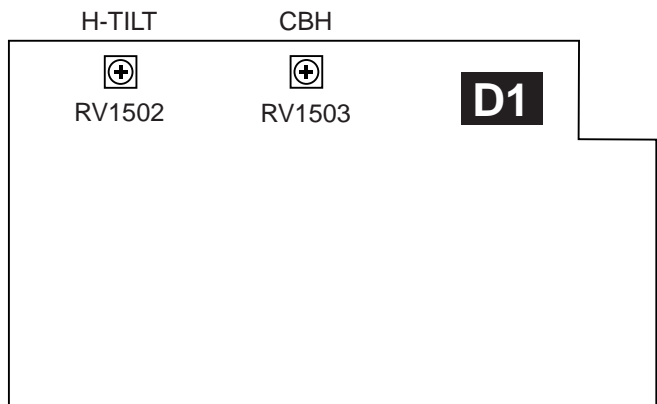


1. HTIL correction can be performed by adjusting RV1502 on the D1 board.

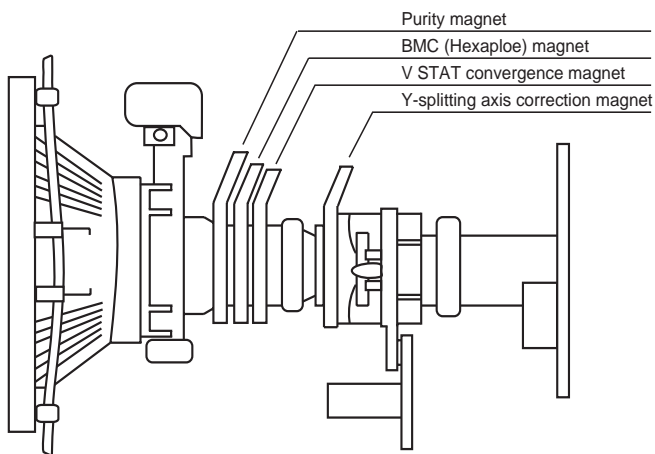
COR.BOW



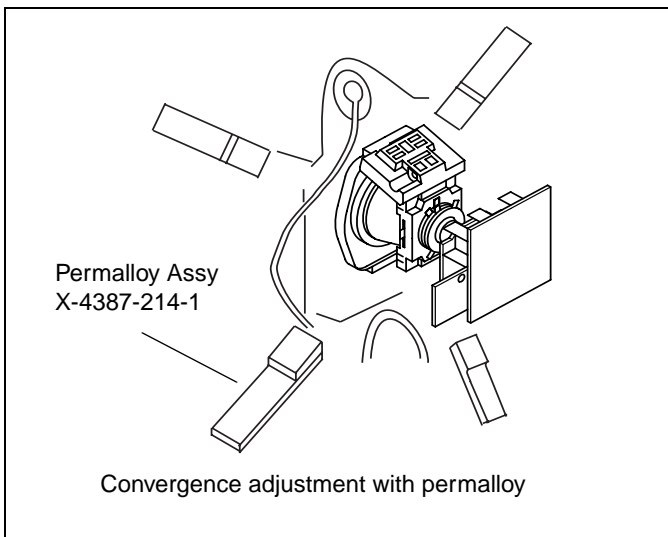
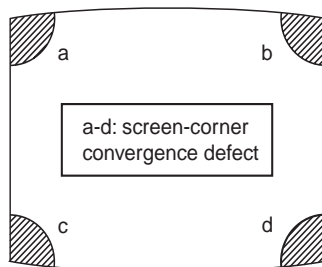
2. COR.BOW correction can be performed by adjusting RV1503 on the D1 board.



Layout of each control

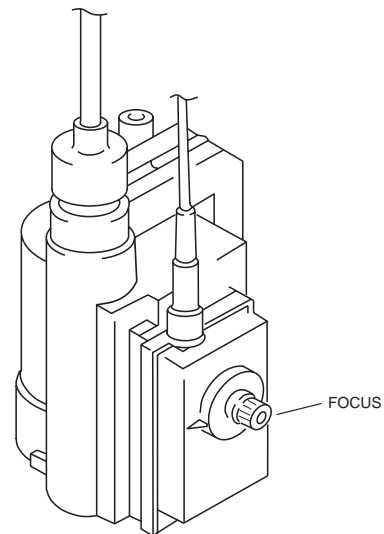


Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloys.



3-3. FOCUS

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. SCREEN (G2), WHITE BALANCE

[Adjustment in the service mode using the remote commander]

G2 adjustment (RV701)

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 170V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust RV701 [SCREEN] located on the C Board to the point just before the flyback return lines disappear.

White balance adjustment

1. Input an all-white signal.
2. Enter into the Service Mode by pressing 'TEST', 'TEST' and 'MENU' 'MENU' on the Service Commander.
3. Move the OK button down until 'MCP CXA2101' is selected then move the OK button to the right. The 'MCP CXA2101' menu will appear on the screen.
4. Select '19 R DRIVE' by moving the OK button down until '19 R DRIVE' is selected then move the OK button to the right and adjust to 41 by pushing the OK button up or down.
5. Press the OK button to write the data.
6. Adjust the '21 G DRIVE' and '23 B DRIVE' so that the white balance becomes optimum.
7. Press the OK button to write the data.
8. Input a 5 - 10 NIT all-white signal.
9. Select '25 R CUT-OFF' by moving the OK button down until '25 R CUT-OFF' is selected then move the OK button to the right and adjust to 41 by pushing the OK button up or down.
10. Adjust the '27 G CUT-OFF', and '29 B CUT-OFF' so that the white balance becomes optimum.
11. Press the OK button to write the data.

Item No	Adjustment menu	Data Amount
1	RED	ON
2	GREEN	ON
3	BLUE	ON
4	CBLK	OFF
5	AKB T	OFF
6	BLK SW	OFF
7	DA TEST	OFF
8	HY SW	0
9	PICTURE	57
10	LIMIT LEVEL	1
11	HUE	31
12	SYSTEM	1
13	COLOR	31
14	AGE WHT	OFF
15	AGE BLK	OFF
16	BRIGHT	31
17	YS/YM SW	0
18	YM/VM	0
19	SHARPNESS	35
20	D COL	0
21	G DRIVE	ADJ
22	CLP SW	1
23	B DRIVE	ADJ
24	CLP MSK	0
25	R CUT OFF	32
26	ABL MODE	2
27	G CUT OFF	ADJ
28	ABL TH	1
29	B CUT OFF	ADJ
30	SUB BRT	ADJ
31	H SEP SEL	1
32	FIX SEL	0
33	V - TC	2
34	H WIDTH	0
35	HD TC	1
36	HS MASK	1
37	CB OFF SET 1	7
38	CR OFF SET 1	7
39	CB OFF SET 2	7
40	CR OFF SET 2	7

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustments to this model can be performed using the supplied Remote Commander RM-891.

HOW TO ENTER INTO SERVICE MODE

- Turn on the main power switch of the set while pressing the PROG + and PROG - buttons on the top panel.



- 'TT--' will appear in the upper right corner of the screen. Other status information will also be displayed.
- Press 'MENU' 'MENU' on the remote commander to obtain the following menu on the screen.

DEVICES	
Init TV	
Sound	MSP3410D
Feature Box	S87654
Deflect Cont.	SDA9361
Deflect Cont.Subadjust	
MCP	CXA2101
Col.Dec.Main	TDA9144
DA	SDA9280
Line 23 Detection	
Sub Adjust	
Port Expander	

- Move to the corresponding adjustment item by pushing the OK button up or down.
- Push the OK button to the right to enter into the required adjustment.
- Press the 'Menu' button and '00' on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Defl.Cont. SDA9361		
1	V SIZE	ADJ
2	V POSITION	ADJ
3	V LINEARITY	ADJ
4	S CORRECTION	ADJ
5	H SIZE	ADJ
6	PIN AMP	ADJ
7	UPPER CORNER PIN	ADJ
8	LOWER CORNER PIN	ADJ
9	V BOW	ADJ
10	PIN PHASE	ADJ
11	V ANGLE	ADJ

CENTRE ADJUSTMENT FOR 4:3 MODE

- Input a Sony special pattern.
- Switch the TV into Analogue 4:3 mode.
- Enter into the service menu by pressing 'TEST' 'TEST' and 'MENU' 'MENU' on the remote commander.
- Select 'DA SDA9280' from the 'Devices' menu.
- The 'DA SDA9280' menu will appear on screen.
- Adjust '29 BCKPOS' so that the picture is in the centre of the screen.

CENTRE ADJUSTMENT FOR DIGITAL MODE

- Input a Digital test pattern.
- Switch the TV into Digital mode.
- Enter into the service menu by pressing 'TEST' 'TEST' and 'MENU' 'MENU' on the remote commander.
- Select 'Deflect.Cont SDA9316' from the 'Devices' menu.
- The 'Deflect.Cont SDA9316' menu will appear on screen.
- Adjust '48 INT H PHASE' so that the picture is in the centre of the screen.
- Adjust '1 V size' and '2 V position' so that the picture is in the centre of the screen.

DA SDA9280		
1	Int 444	ON
2	Int 422	ON
3	Incodc	ON
4	Incodl	OFF
5	Infor	1
6	Insneg	ON
7	Trawid	7
8	Thresh	11
9	VinV	Dependant on analogue or digital
10	UinV	Dependant on analogue or digital
11	Cgrres	0
12	Cgr	OFF
13	Ydel1	Dependant on analogue or digital
14	YinV	OFF
15	Ygres	0
16	Ygr	OFF
17	Bcof	Dependant on analogue or digital
18	Lcof	Dependant on analogue or digital
19	Hcof	Dependant on analogue or digital
20	Phacom	2
21	Cor	ON
22	Comex	OFF
23	Comp	OFF
24	Readd	0
25	Ovsamp	ON
26	Ovfil	ON
27	Backgr	OFF
28	Hsdel	2
29	Bckpos	191

DEFLECTION ADJUSTMENT FOR WIDE MODE

1. Input an Phillips pattern.
2. Switch the TV into wide mode.
3. Enter into the service menu by pressing 'TEST' 'TEST' and 'MENU' 'MENU' on the remote commander.
4. Select 'Deflect.Cont SDA9361' from the 'Devices' menu.
5. The 'Deflect.Cont SDA9361' menu will appear on screen.
6. Select and adjust each item to obtain optimum image.
7. Return to the 'Devices' menu.
8. Select the 'Sub Adjust' menu.
9. Select and adjust each item to obtain optimum image.
10. Repeat above steps in Digital mode.

Defl.Cont. SDA9361

1	V SIZE	ADJ
2	V POSITION	ADJ
3	V LINEARITY	ADJ
4	S CORRECTION	ADJ
5	H SIZE	ADJ
6	PIN AMP	ADJ
7	UPPER CORNER PIN	ADJ
8	LOWER CORNER PIN	ADJ
9	V BOW	ADJ
10	PIN PHASE	ADJ
11	V ANGLE	ADJ

DEFLECTION CONTR.SUBADJUST

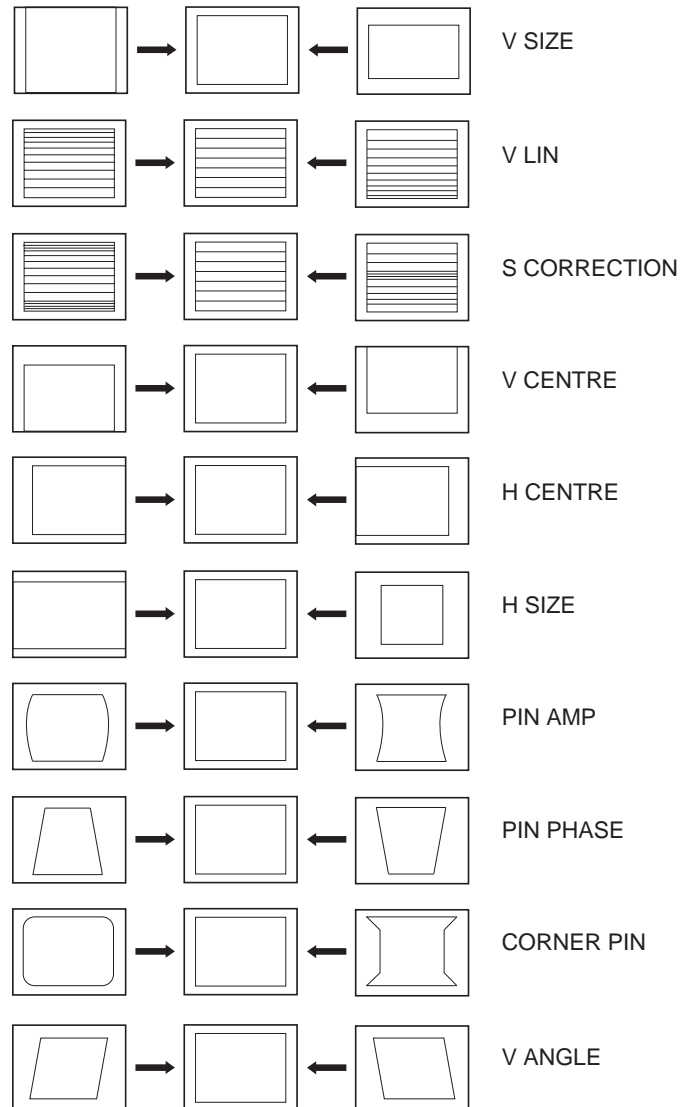
1	SMART V SIZE	54
2	SMART V POSITION	220
3	SMART V LINEARITY	215
4	SMART S CORRECTION	236
5	SMART H SIZE	80
6	SMART PIN AMP	217
7	SMART UPPER CORNER PIN	17
8	SMART LOWER CORNER PIN	189
9	SMART V BOW	243
10	SMART PIN PHASE	202
11	SMART V ANGLE	5

DEFLECTION ADJUSTMENT FOR SMART MODE

1. Input an Phillips pattern.
2. Switch the TV into smart mode.
3. Enter into the service menu by pressing 'TEST' 'TEST' and 'MENU' 'MENU' on the remote commander.
4. Select 'Deflect.Cont SDA9361' from the 'Devices' menu.
5. The 'Deflect.Cont SDA9361' menu will appear on screen.
6. Select and adjust each item to obtain optimum image.
7. Return to the 'Devices' menu.
8. Select the 'Deflect.cont.Subadjust' menu.
9. Select and adjust each item to obtain optimum image.
10. Return to the 'Devices' menu.
11. Select the 'Subadjust' menu.
12. Select and adjust each item to obtain optimum image.
13. Repeat above steps in Digital mode.

SUB ADJUSTMENT

1	RGB Level	8
2	Menue/Text H-pos	-2
3	Extra Framing Window	255
4	4/3 Center	



4-2. TEST MODE 2:

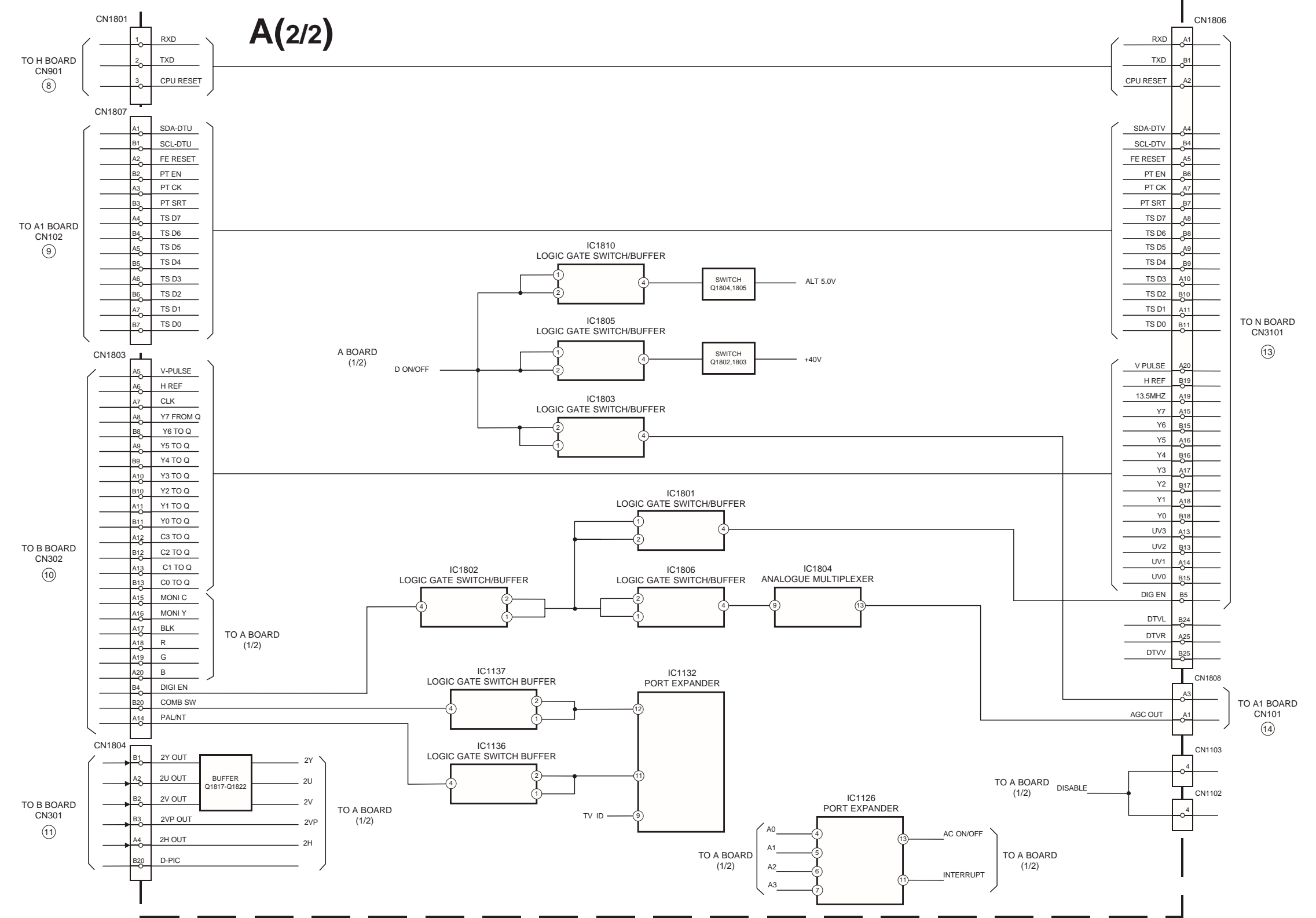
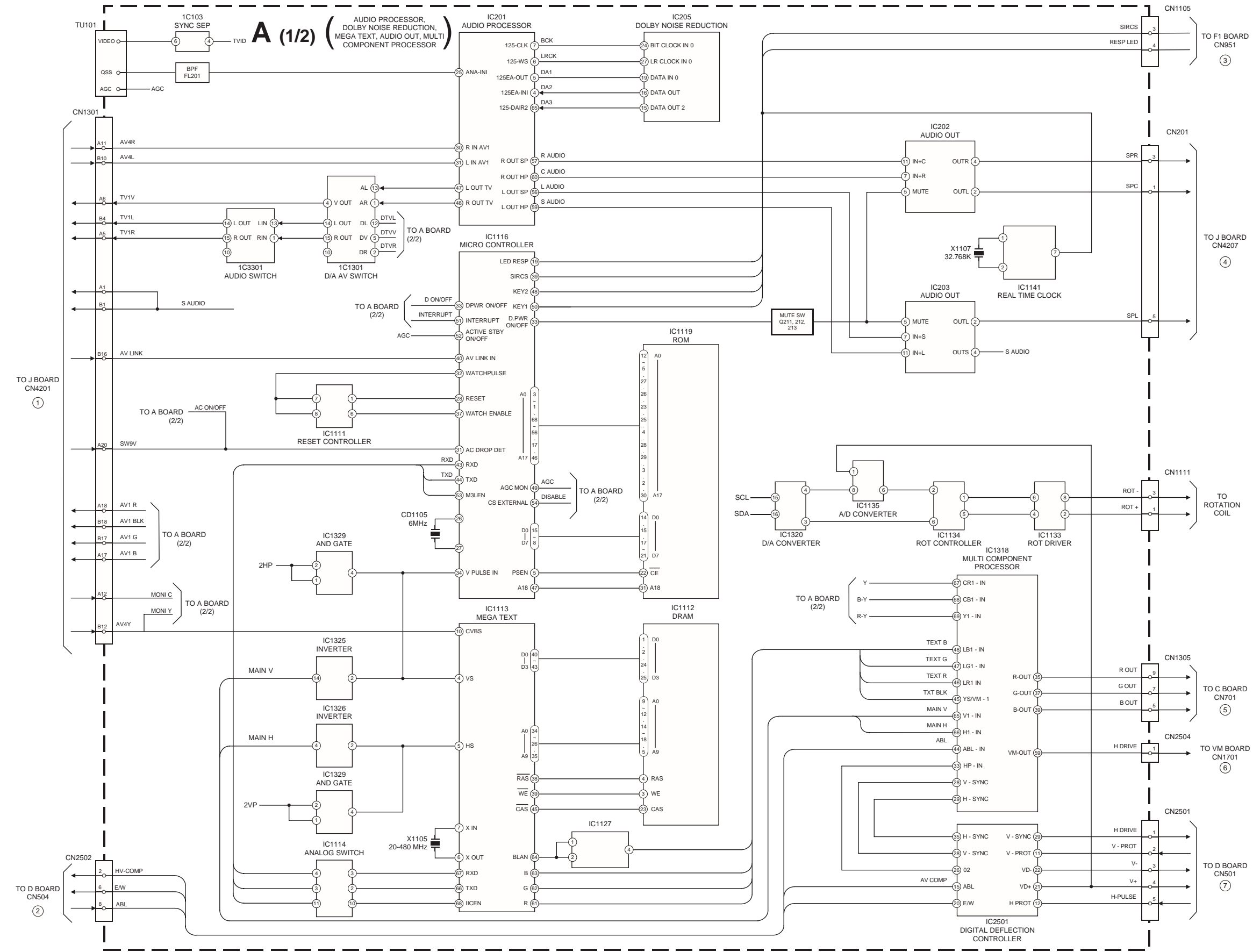
Is available by pressing 'TEST' button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0 twice, or switch the TV into stand-by mode, or press the TV button on the remote commander.

00	Cancel Test mode
01	Picture maximum - Colour Minimum
02	Direct Access to Noise Reduction
03	Volume 35%
04	Display Service Menu in Service mode
05	Display Service Menu in Production mode
06	Volume 80%
07	Ageing mode On/Off
08	Set shipping conditions
09	No function
10	TT number will be deleted
11	No function
12	Sub Colour Adjustment
13	Display software version and TV configuration
14	Production Info Display
15	Read factory setting
16	Save Last Power Memory data
17	Label AV sources
18	Level 2.5 Text Feature on/off
19	Set volume to 50%
20	TT number will be deleted
21	Picture Rotation
22	Operating Timer and Error monitor display
23	Status menu display
24	Direct access to sub colour
25	Status menu display
26	Text character set
27	Text character set
28	Text character set
29	Text character set
30	TT number will be deleted
31	Geometry adjustment 1
32	Geometry adjustment 2
33	No function
34	Reset NVM
35	Disable/Enable picture blanking
36	No function
37	Phillips Bug switch
38	Fast Helper switch
39	Reset Programme Table
40	TT number will be deleted
41	Screen Mode check

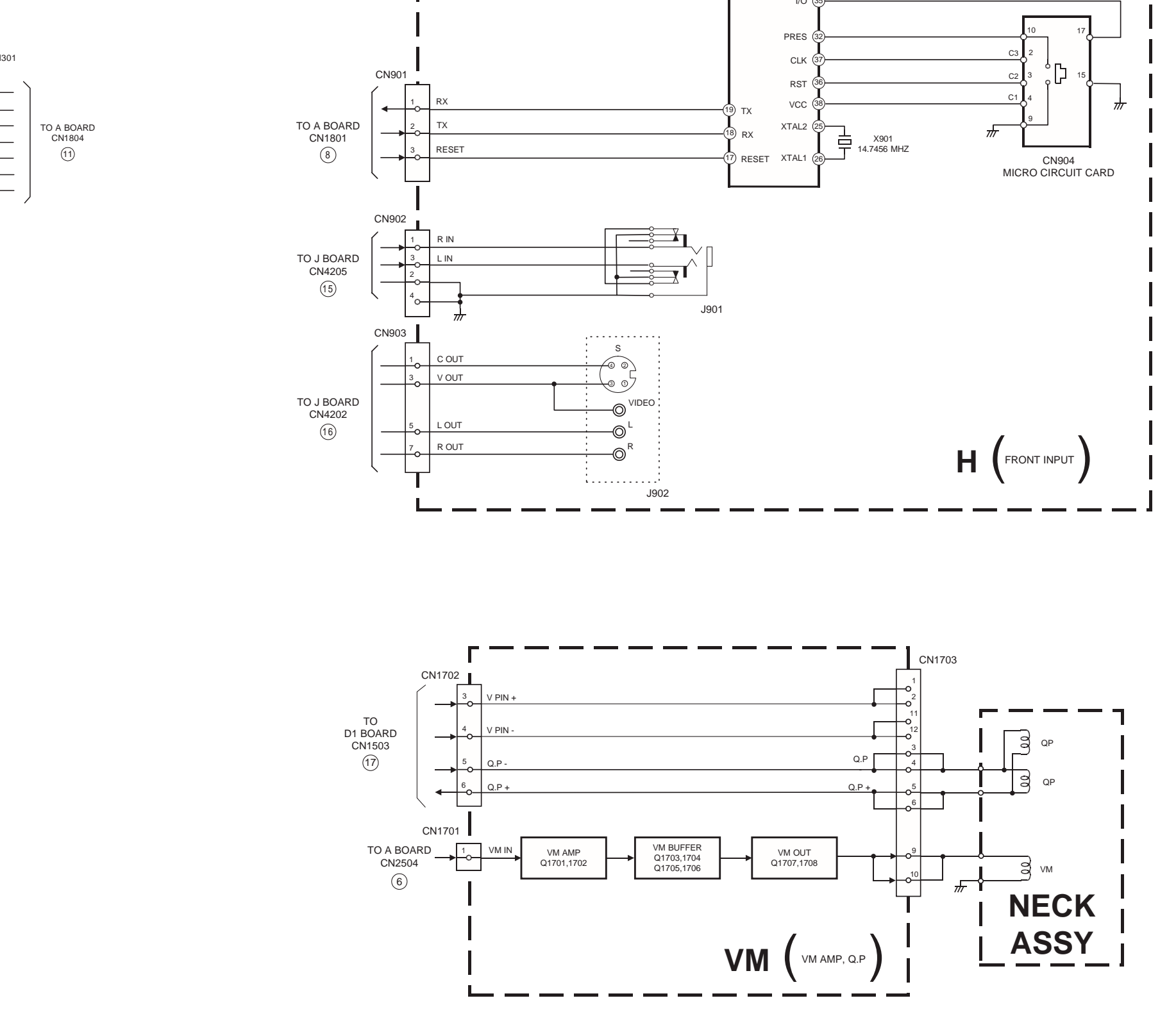
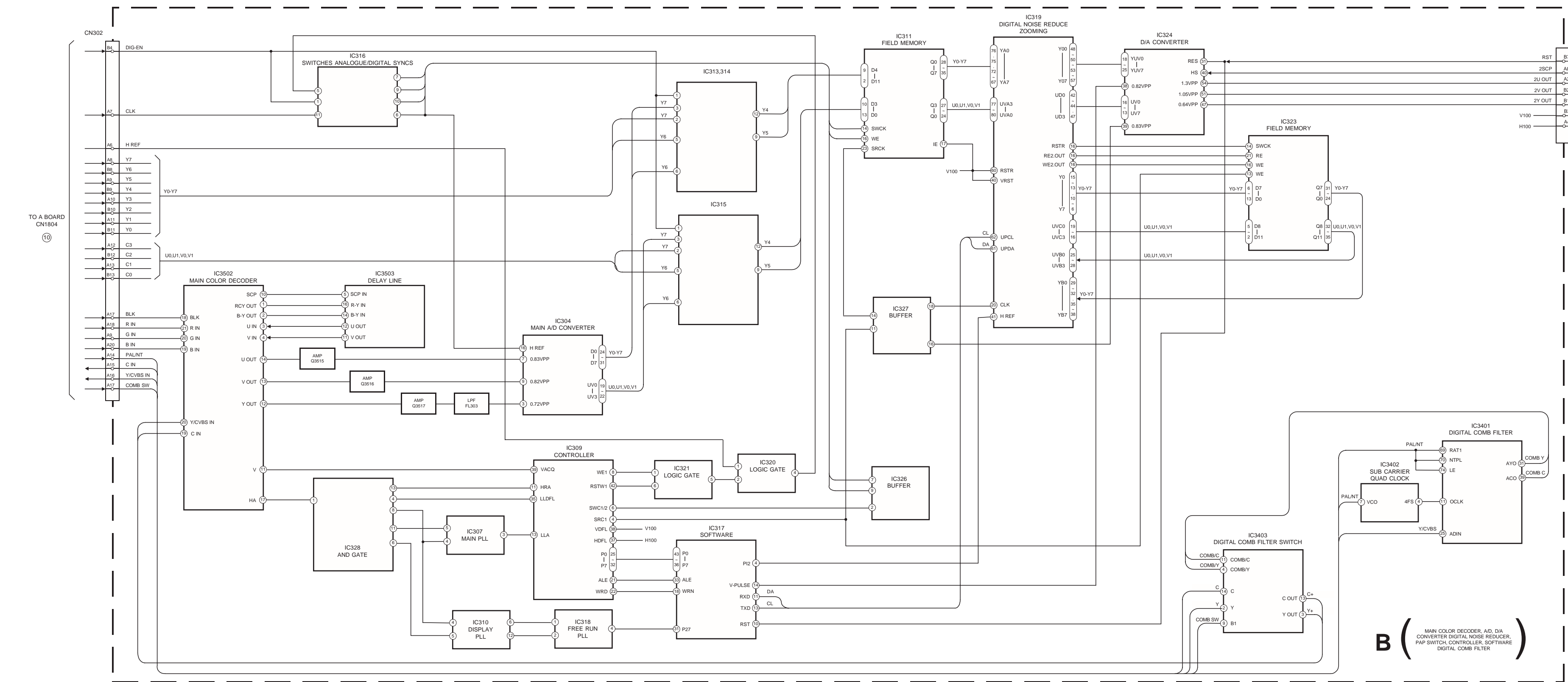
42	Auto-shut-off
43	NVM Map
44	Sub-Brightness Adjustment
45	No function
46	IR Channel Presetting Mode
47	Headphone Source Selection
48	Speaker Source Selection
49	EEPROM Testbyte is erased
50	TT number will be deleted
51	Strobe mode test
52	Reserved for uCon internal Test
53	Dynamic picture (AI) check
54	Velocity Modulation (VM) check
55	MTX Slicer Control
56	MTX Slicer Control
57	Megatext Service Menu
58	MTX Small Framing Code Window
59	MTX Wide Framing Code Window
60	TT number will be deleted
61	Sound default
62	No function
63	No function
64	Reset IIC Slave Commands
65	Reset Error Codes
66	No function
67	Headphone Volume
68	Ignore Errors
69	Reset Ignore Errors
70	TT number will be deleted
71	No function
72	NVM Subadjustment default
73	Clear programs
74	NVM Port-Expander default
75	No function
76	NVM default data
77	NVM D/A converter default
78	No function
79	No function
80	TT number will be deleted
81	NVM feature box default
82	No function
83	No function

84	NVM MCP default
85	NVM main colour decoder default
86	Display BER
87	No function
88	Text character set Russian/East
89	Text character set Russian/West with ESC
90	TT number will be deleted
91	Dolby Mode Normal
92	ASIC-Version
93	NVM MCP subadjustment default
94	Noise Sequencer Left
95	Noise Sequencer Center
96	Noise Sequencer Right
97	Noise Sequencer Surround
98	Surround Mode off
99	Dolby Mode Phantom

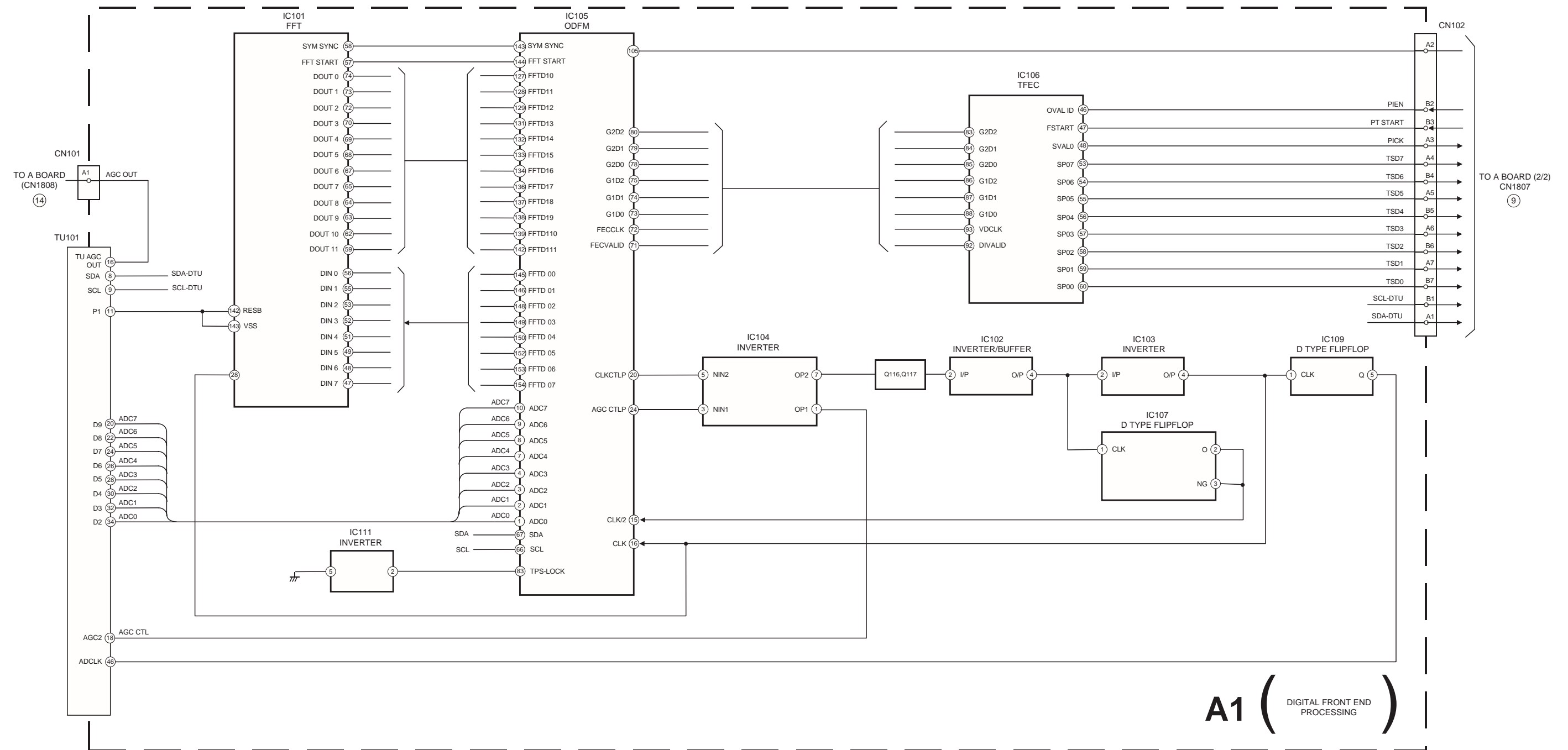
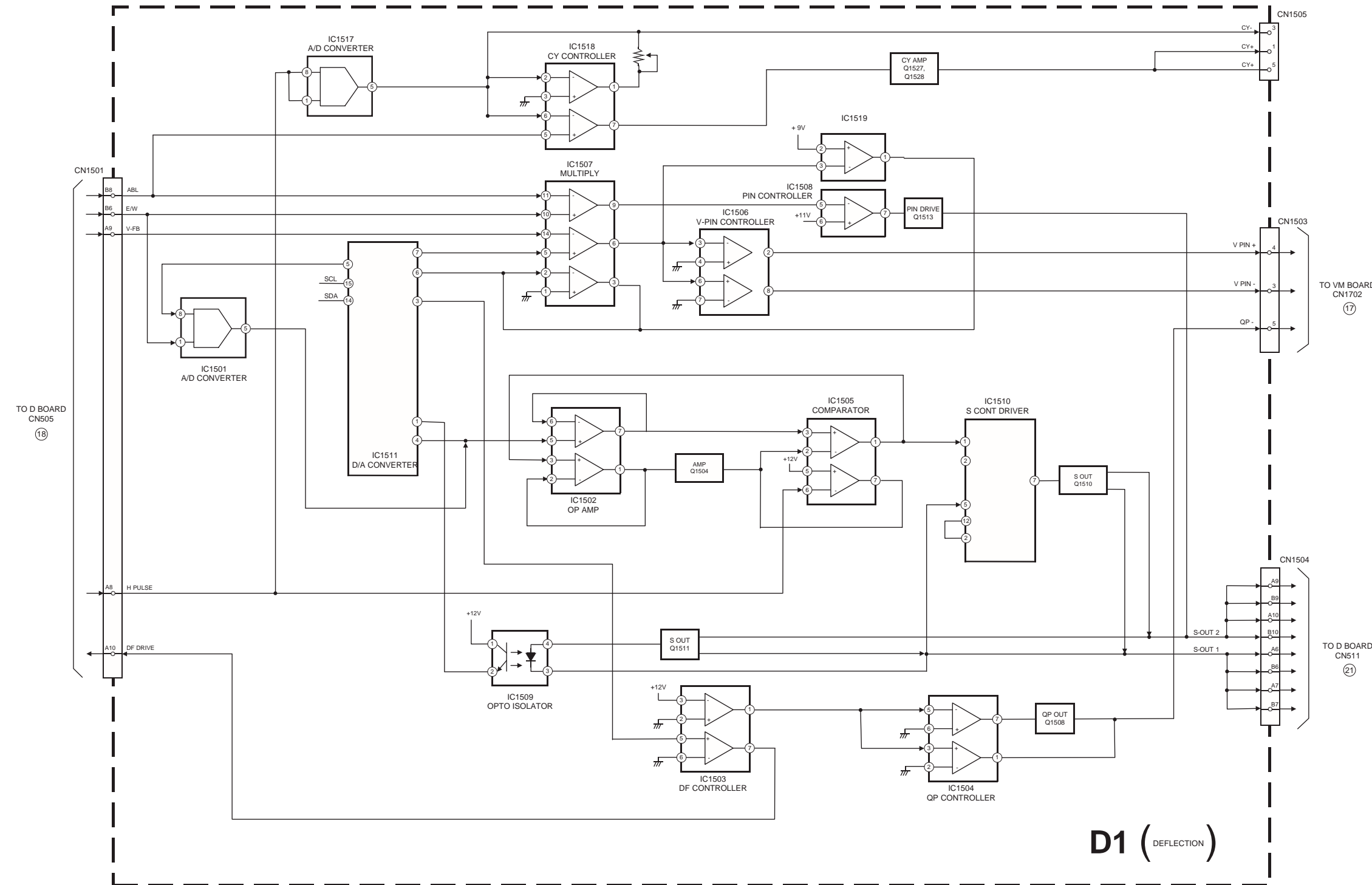
5-1 BLOCK DIAGRAMS (1)

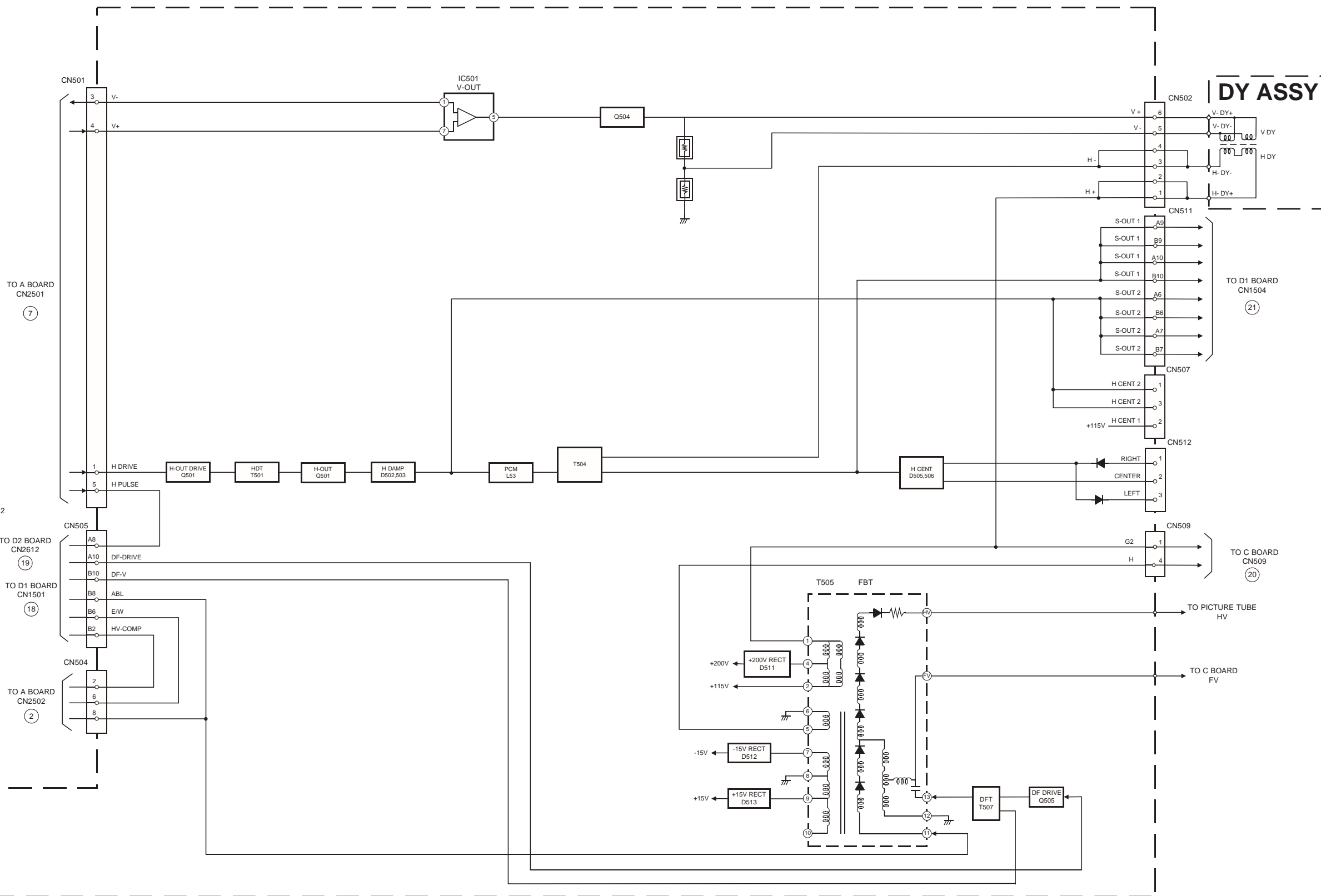
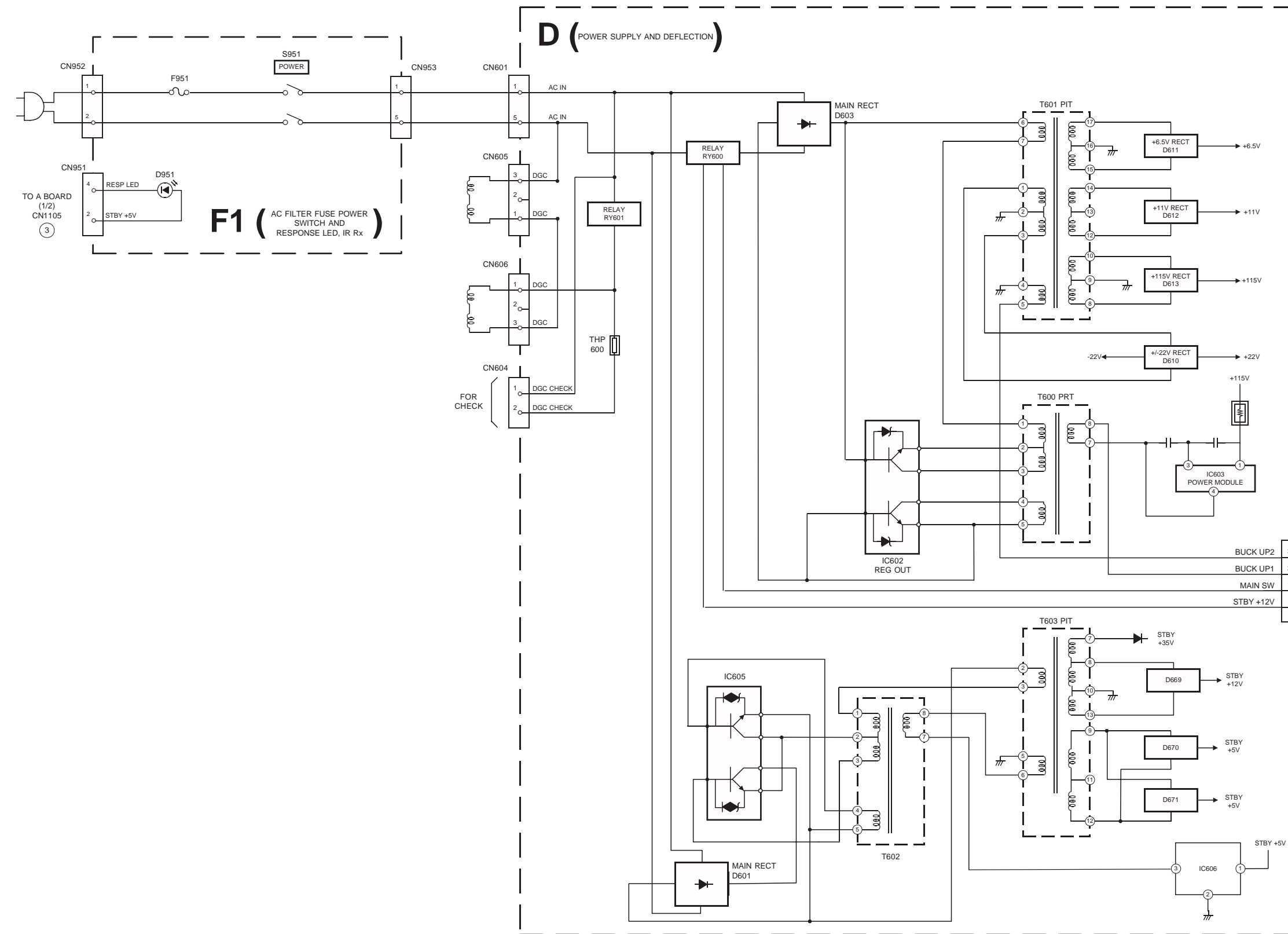


BLOCK DIAGRAMS (2)

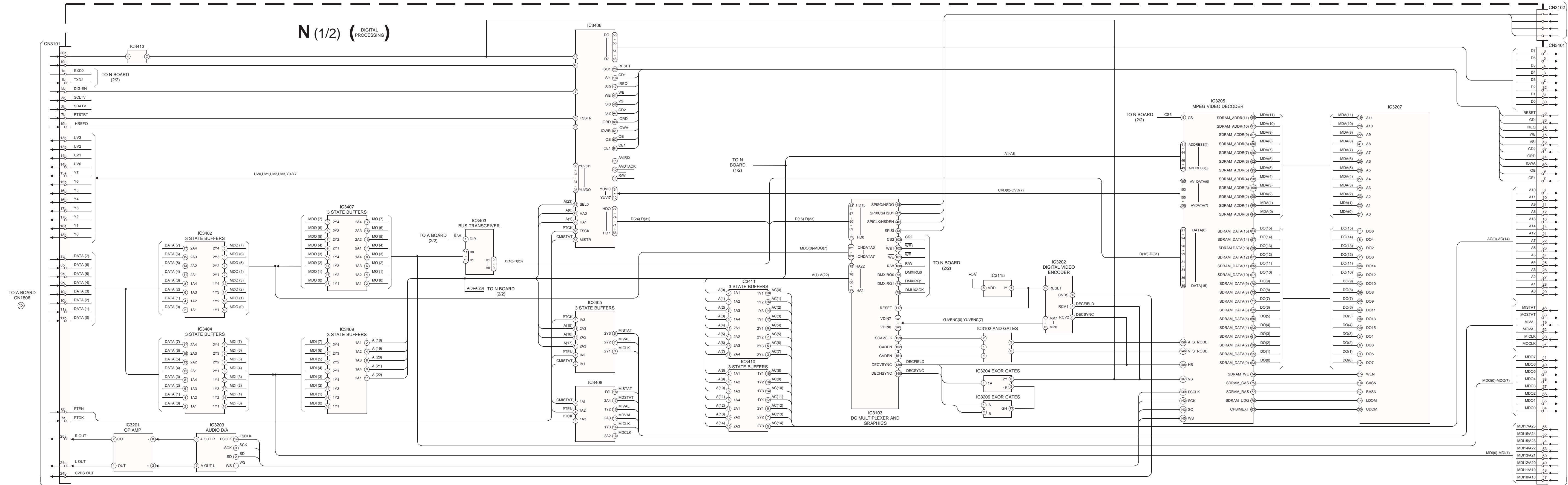


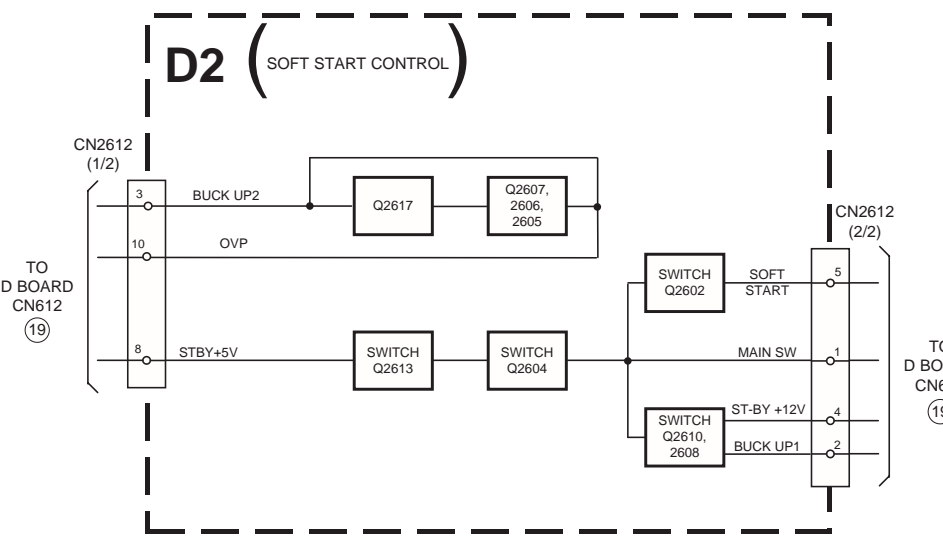
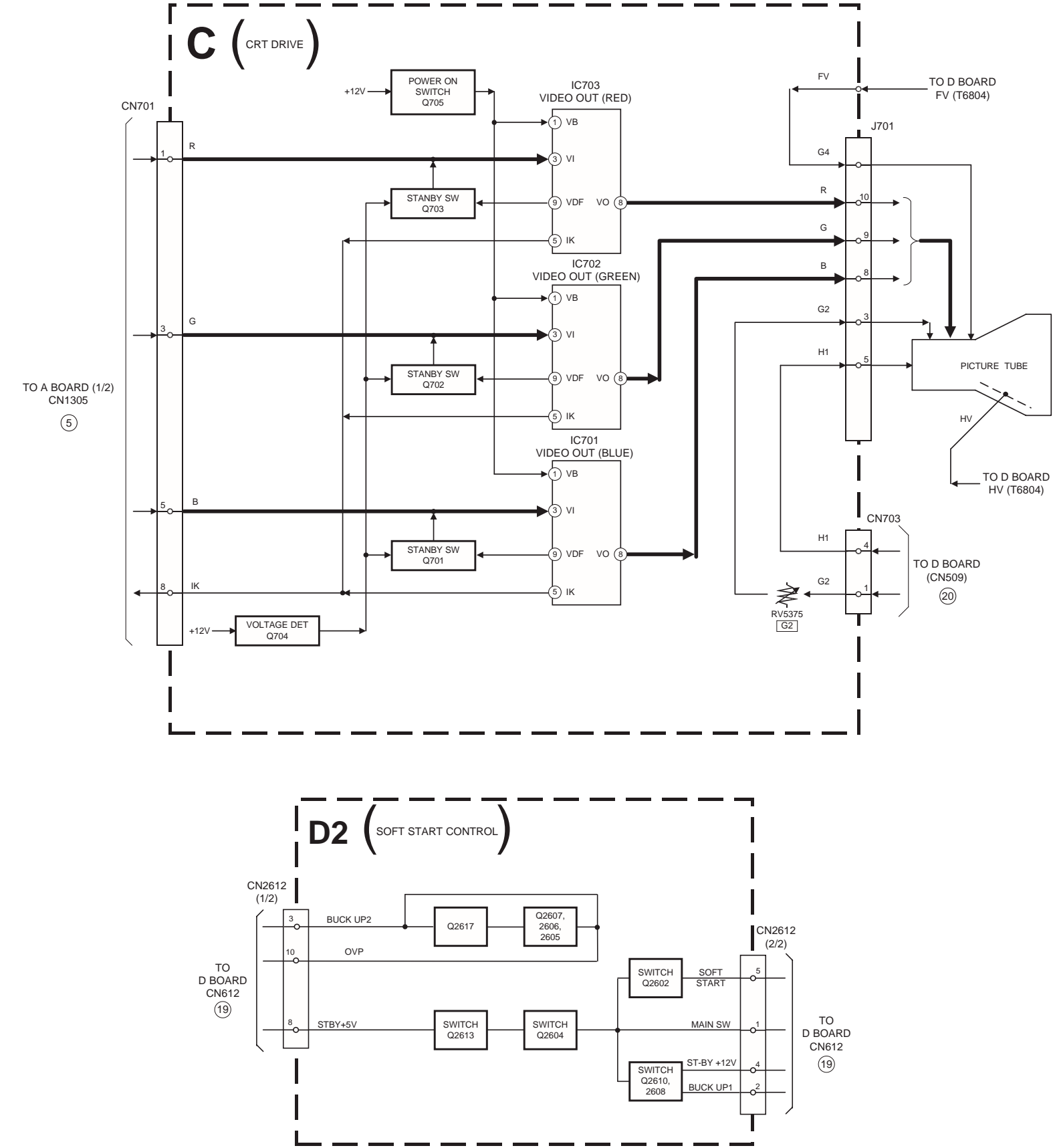
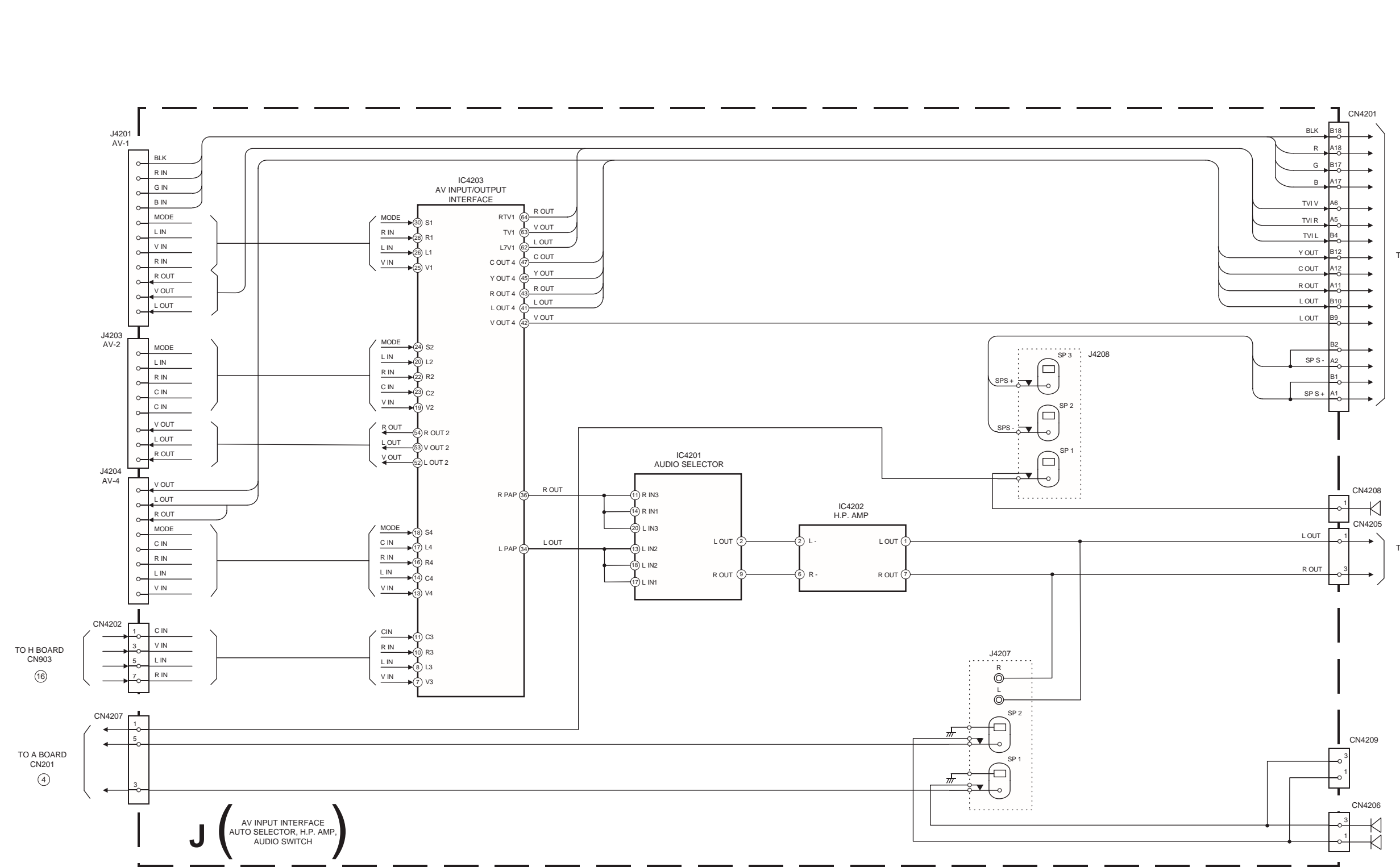
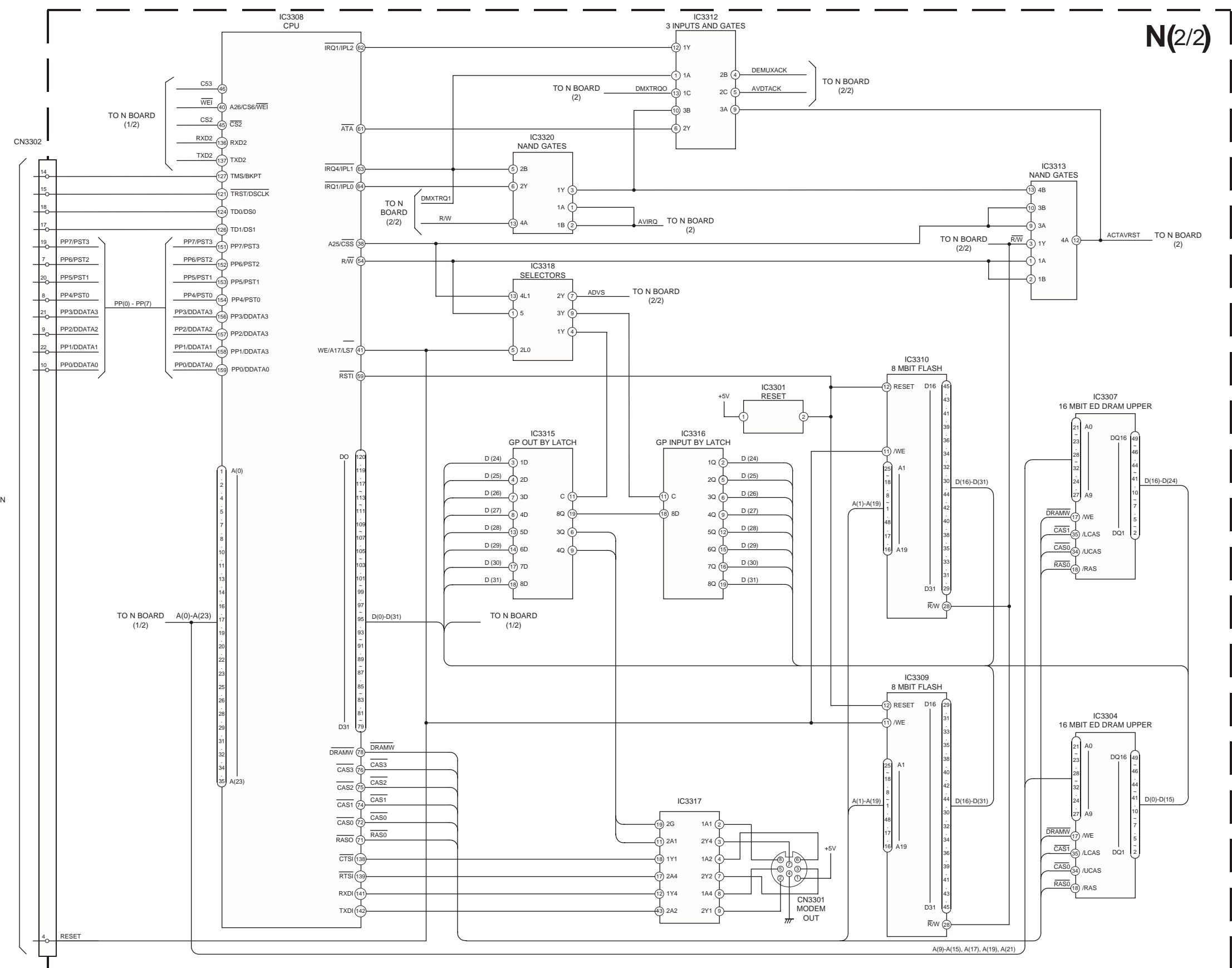
BLOCK DIAGRAMS (3)



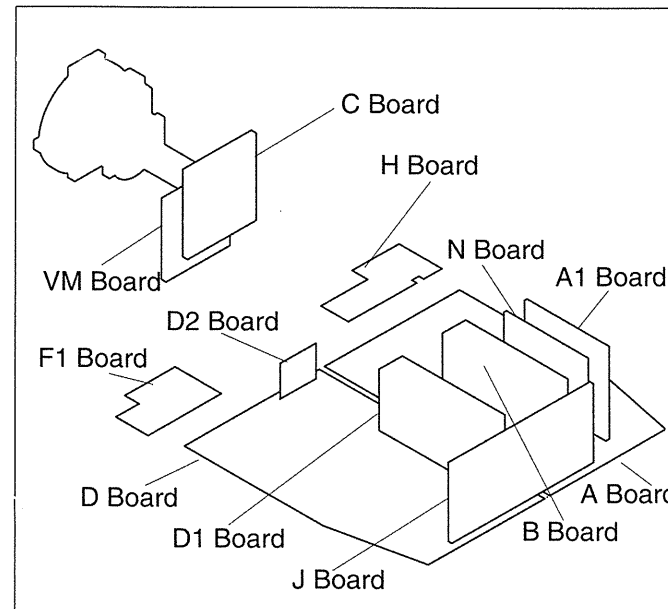


BLOCK DIAGRAMS (5)





5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted.
- pF : μF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
- k = 1000 ohms, M = 1000,000 ohms

- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation or adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital multimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerances.

- : B + bus.
- : B - bus.
- : RF signal path.
- : earth - ground.
- : earth - chassis.

Reference Information

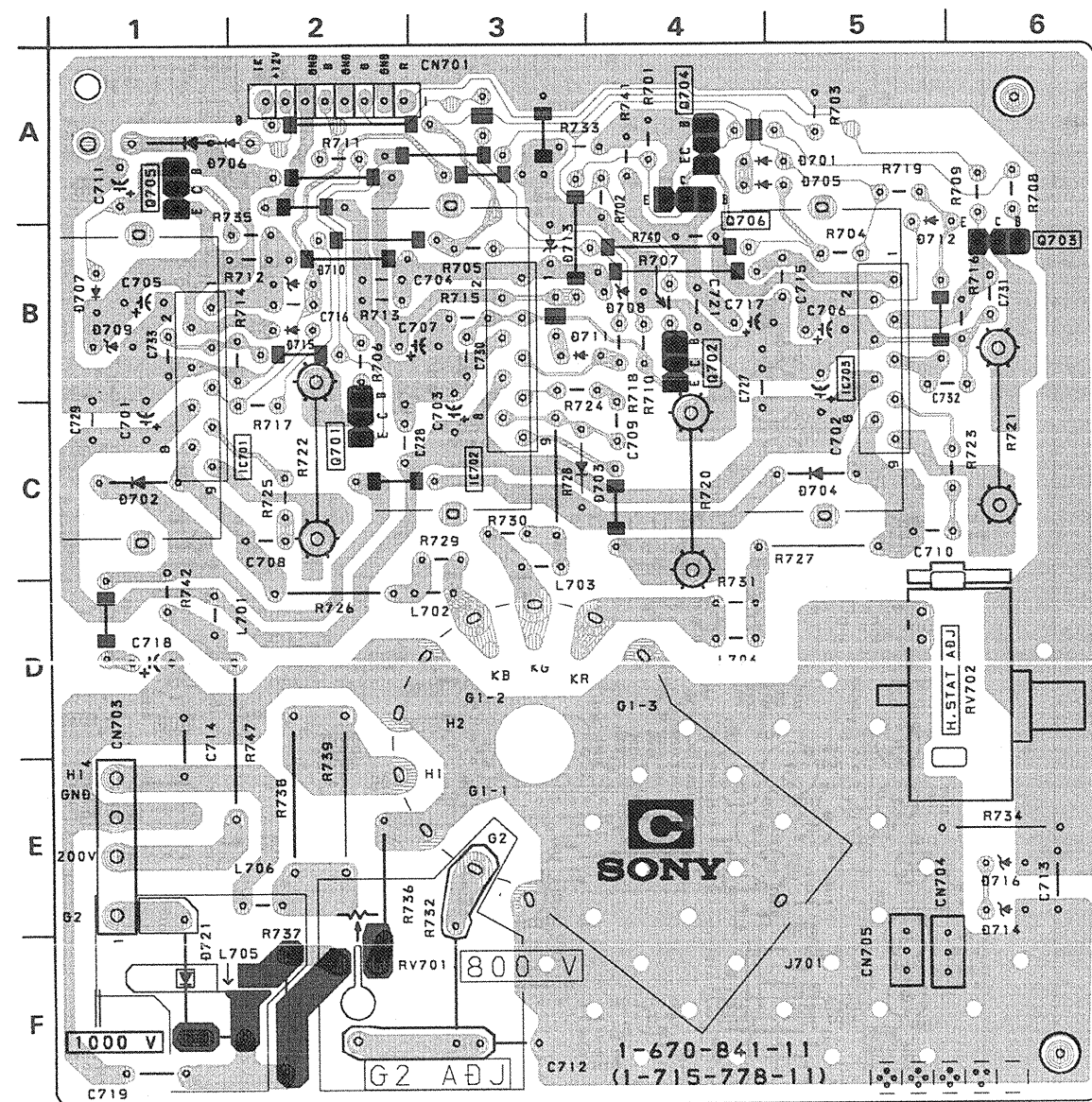
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR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

Note : The components identified by shading and marked are critical for safety. Replace only with the part numbers specified in the parts list.

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

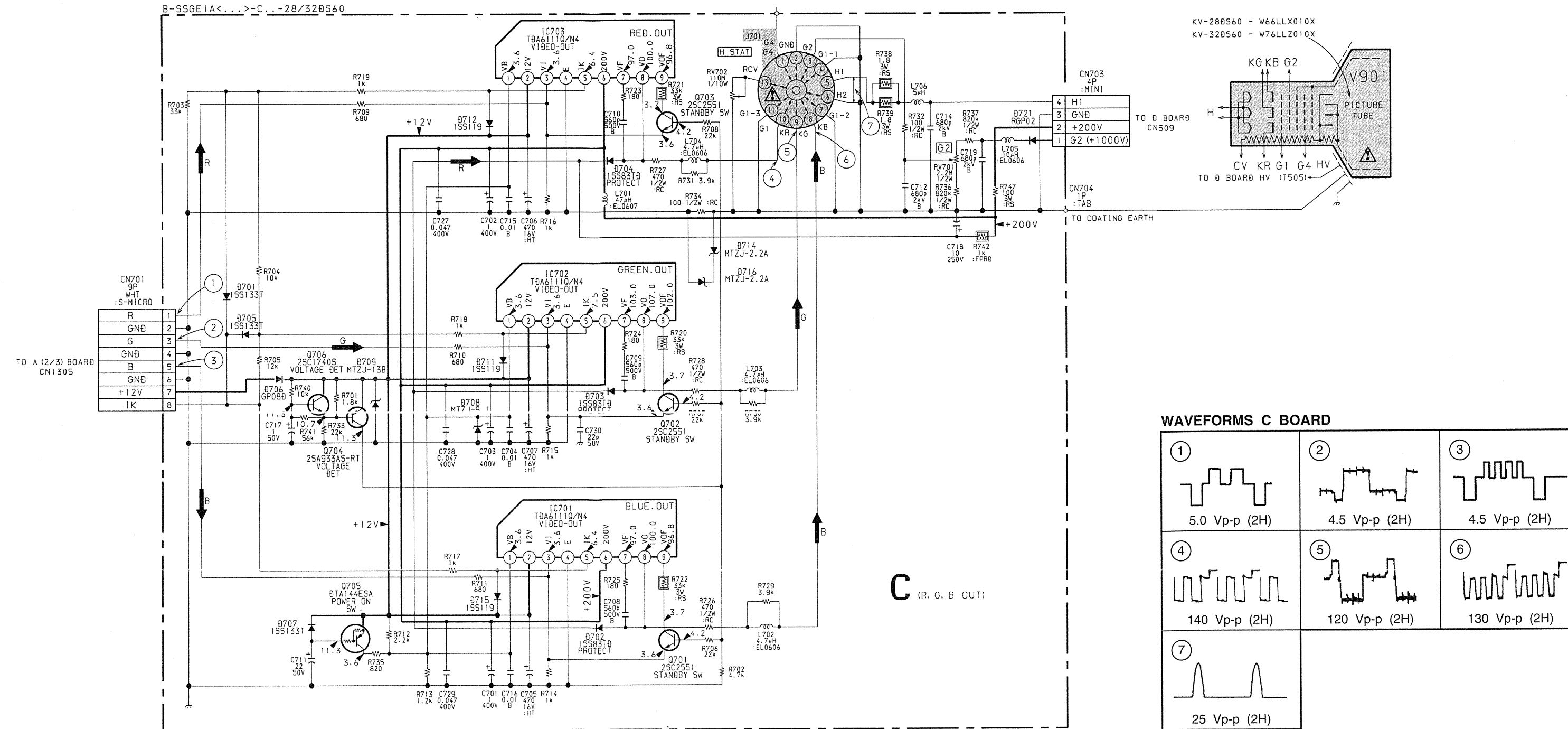
C [RGB OUT]

C Board

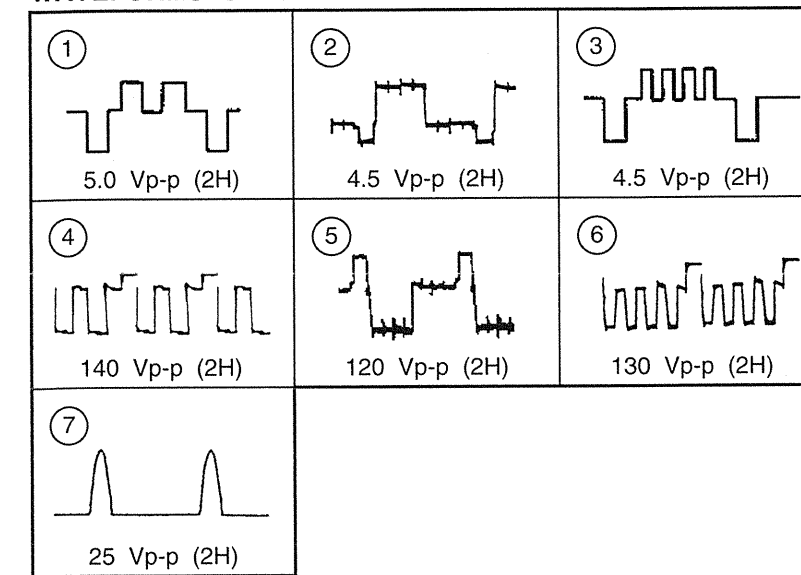


C BOARD

IC	
IC701	C - 1
IC702	C - 3
IC703	C - 5
TRANSISTOR	
Q701	C - 2
Q702	B - 4
Q703	A - 4
Q704	A - 4
Q705	A - 1
Q706	A - 4
DIODE	
D701	A - 4
D702	C - 1
D703	C - 3
D704	C - 5
D705	A - 4
D706	A - 1
D707	B - 1
D712	B - 5
D714	E - 5
D715	B - 2
D716	E - 5
D721	E - 1
VARIABLE RESISTOR	
RV701	E - 2
RV702	D - 5



WAVEFORMS C BOARD



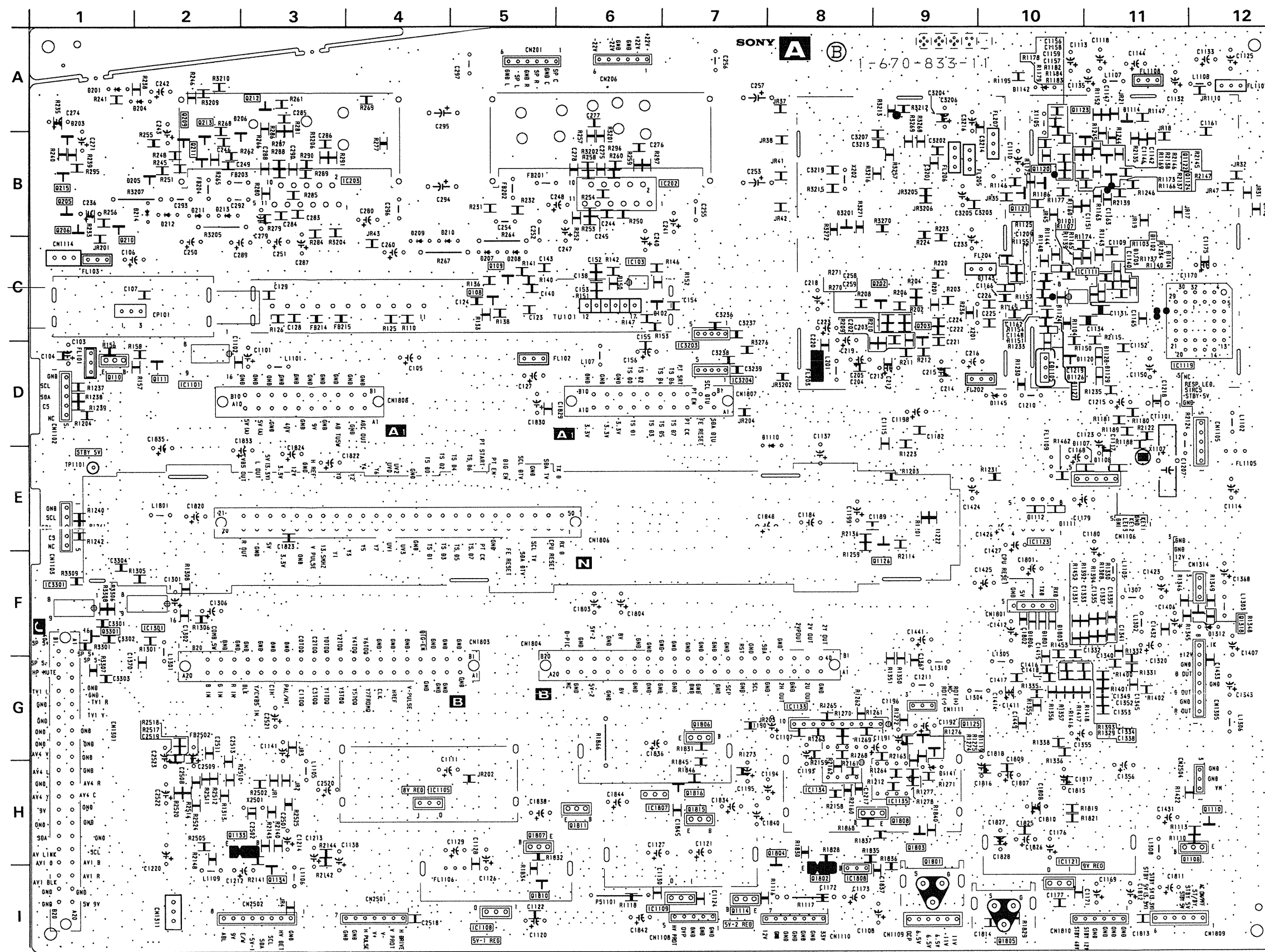
A BOARD

IC	TRANSISTORS	Q1805	I-15	D1121	C-13
IC103	C-6	Q108	C-5	D1122	E-13
IC201	C-15	Q109	C-5	D1123	E-14
IC202	G-15	Q110	D-23	D1124	E-13
IC1400	B-19	Q111	D-2	D1125	E-13
IC203	B-22	Q114	D-19	D1126	D-11
IC204	B-24	Q202	C-9	D1127	D-11
IC205	B-16	Q203	C-9	D1128	D-11
IC1101	D-2	Q205	B-1	D1129	D-11
IC1105	H-21	Q206	B-1	D1135	H-13
IC1108	I-5	Q209	A-2	D1136	G-15
IC1109	I-19	Q210	B-2	D1137	G-15
IC1111	C-11	Q211	B-2	D1138	G-15
IC1112	B-13	Q212	A-3	D1139	D-14
IC1113	B-14	Q213	A-2	D1141	H-9
IC1114	A-15	Q215	B-1	D1142	A-15
IC1116	C-14	Q1108	I-14	D1143	C-10
IC1119	C-13	Q1110	H-12	D1310	H-14
IC1121	I-15	Q1111	E-17	D1311	H-14
IC1123	E-15	Q1113	E-18	D1312	F-12
IC1127	B-15	Q1116	D-18	D1801	F-10
IC1132	F-16	Q1117	D-17	D1802	F-15
IC1133	G-17	Q1120	B-10	D1803	F-10
IC1134	H-17	Q1121	B-10	D1804	F-15
IC1135	H-16	Q1122	B-12	D1805	F-15
IC1136	F-16	Q1123	A-11	D1806	F-10
IC1137	F-17	Q1124	B-12	D2501	G-23
IC1141	D-14	Q1125	G-10	D2502	G-23
IC1301	F-24	Q1127	D-15	D3201	B-8
IC1302	G-24	Q1128	D-15		
IC1318	G-15	Q1129	D-15		
IC1320	G-16	Q1130	D-15		
IC1325	F-16	Q1133	H-3		
IC1326	F-16	Q1134	I-3		
IC1329	E-16	Q1301	F-24		
IC1330	F-16	Q1302	F-23		
IC1801	H-15	Q1303	F-23		
IC1802	H-15	Q1312	I-23		
IC1803	H-16	Q1313	I-23		
IC1804	H-15	Q1316	G-14		
IC1805	H-13	Q1317	G-14		
IC1806	H-15	Q1318	F-12		
IC1807	H-19	Q1329	G-14		
IC1808	I-17	Q1330	F-16		
IC1809	H-19	Q1332	F-16		
IC1810	F-18	Q1801	I-16		
IC2501	G-22	Q1802	I-17		
IC2502	H-22	Q1803	H-9		
IC3301	F-1	Q1804	I-8		

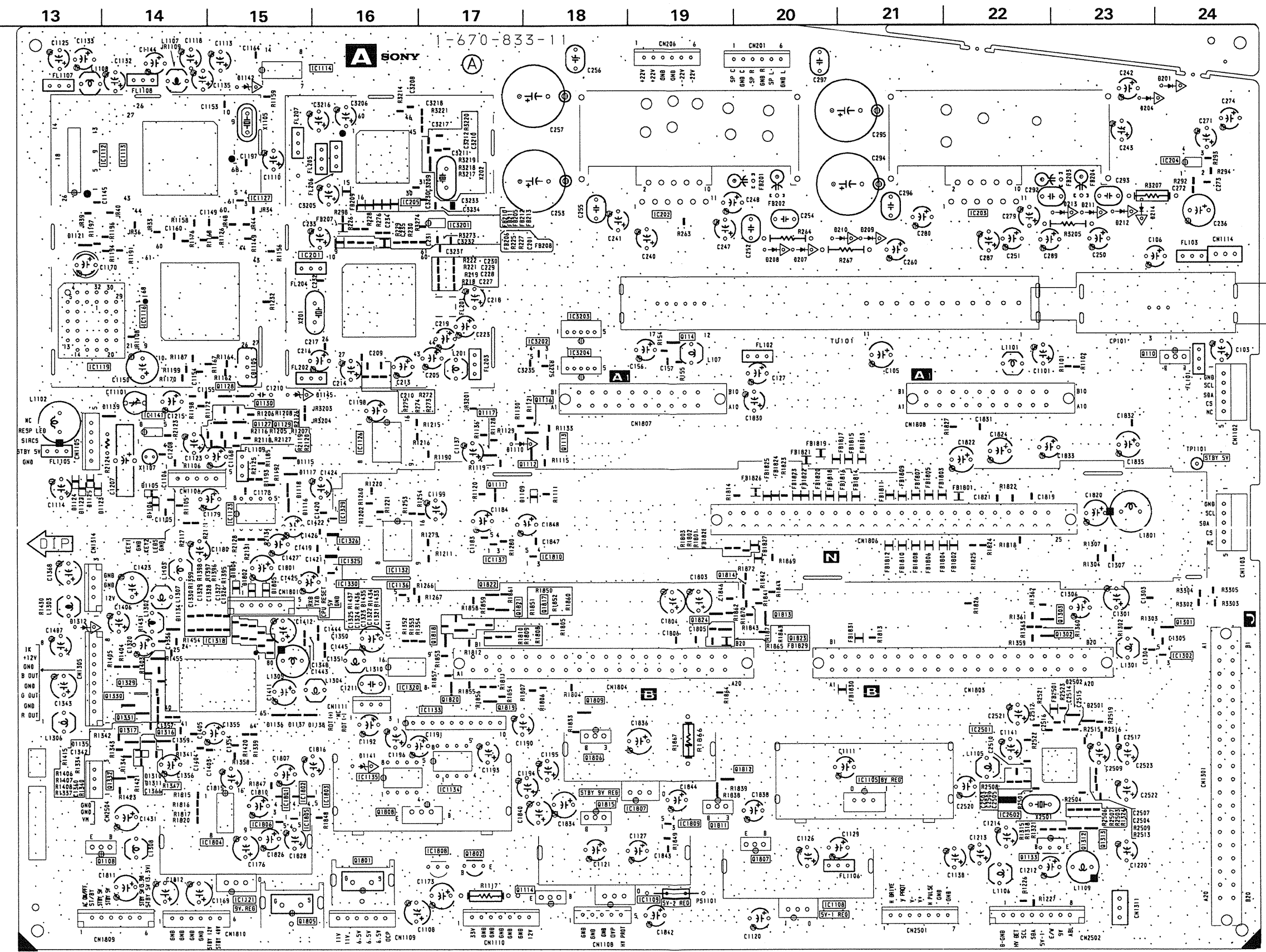
A

AUDIO PROCESSOR/DNR/MICRO CONT.
MULTICOMPONENT PROCESSOR
MEGATEX/AUDIO OUT

A Board <Conductor Side>

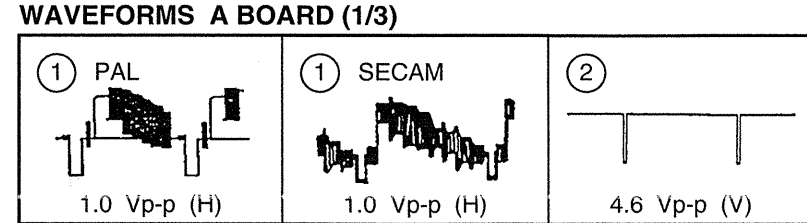
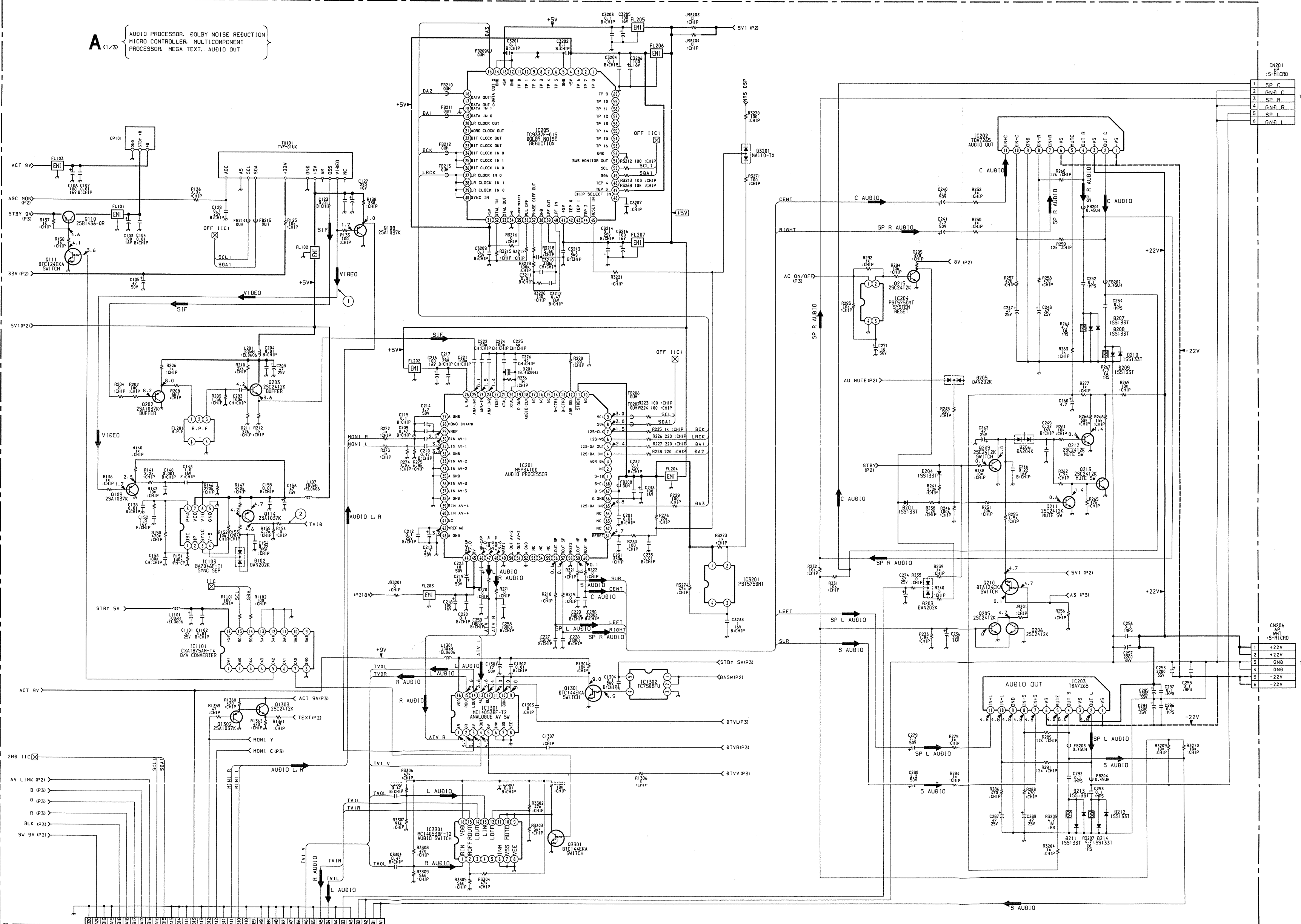


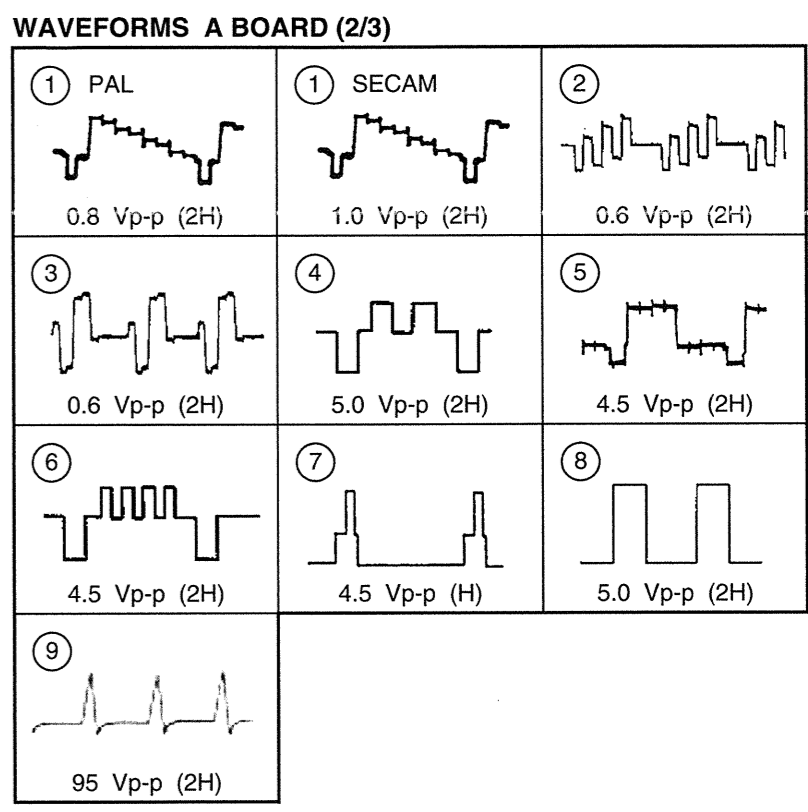
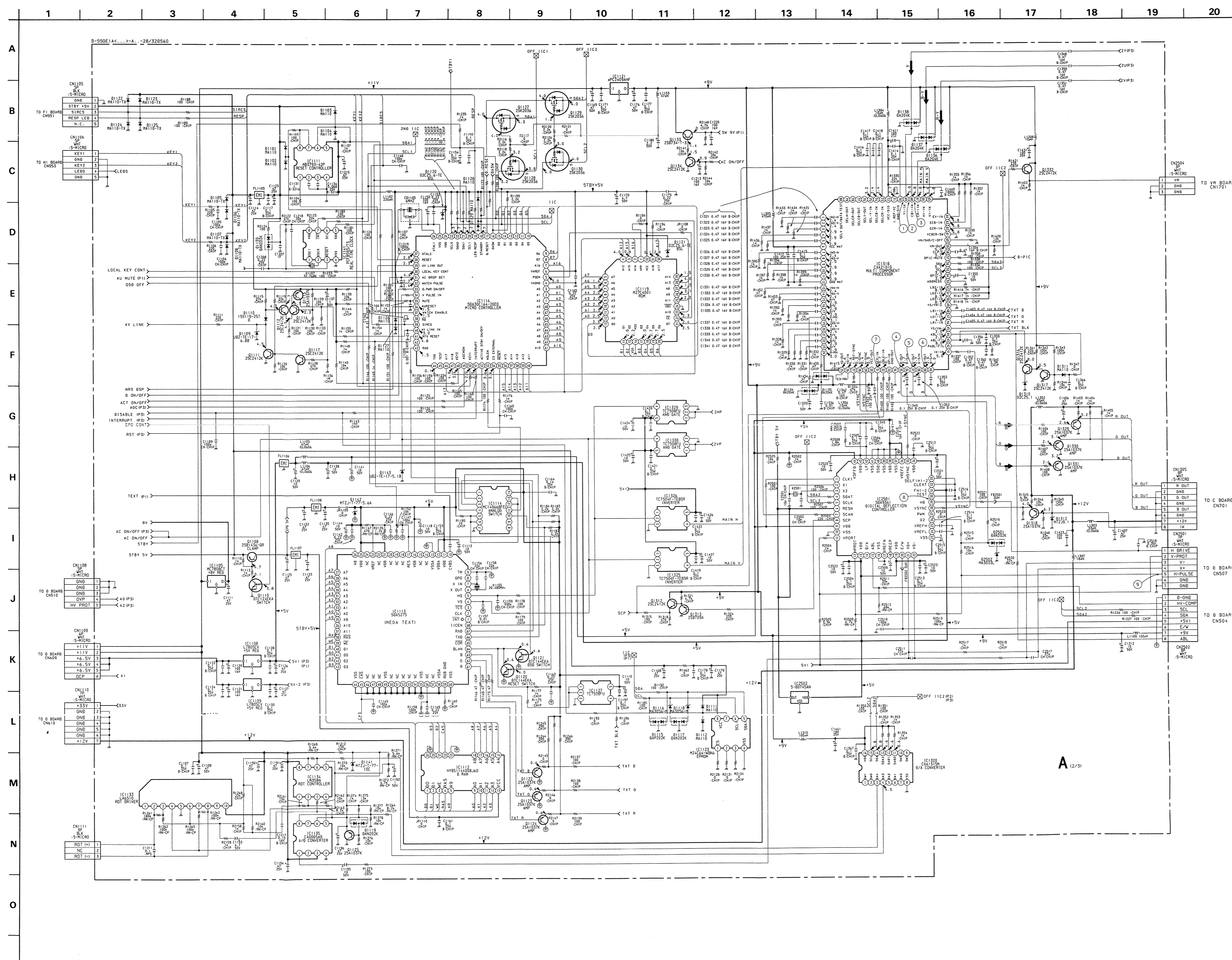
A Board <Component Side>



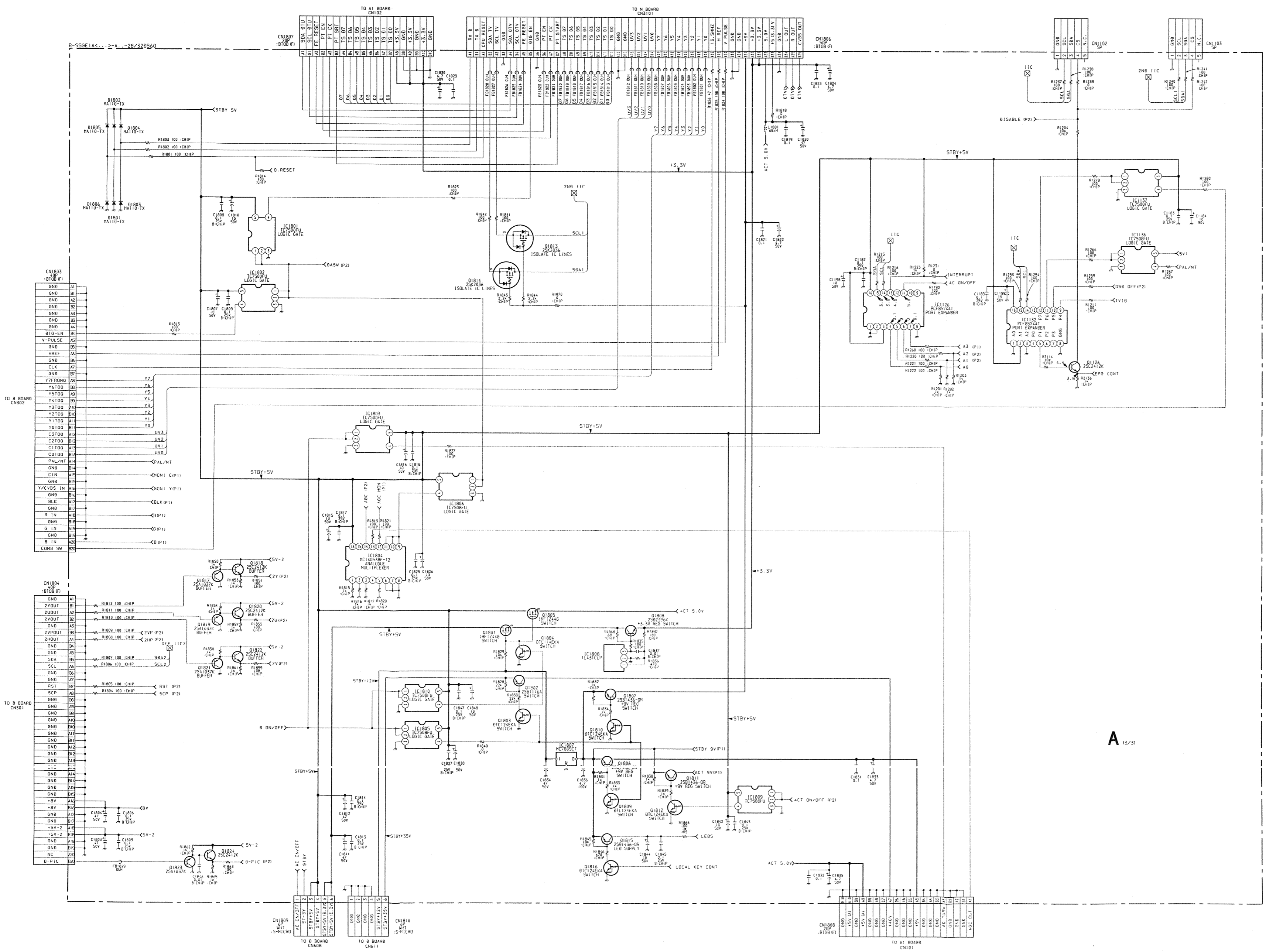
B-990E1A<...>A...-28/320540

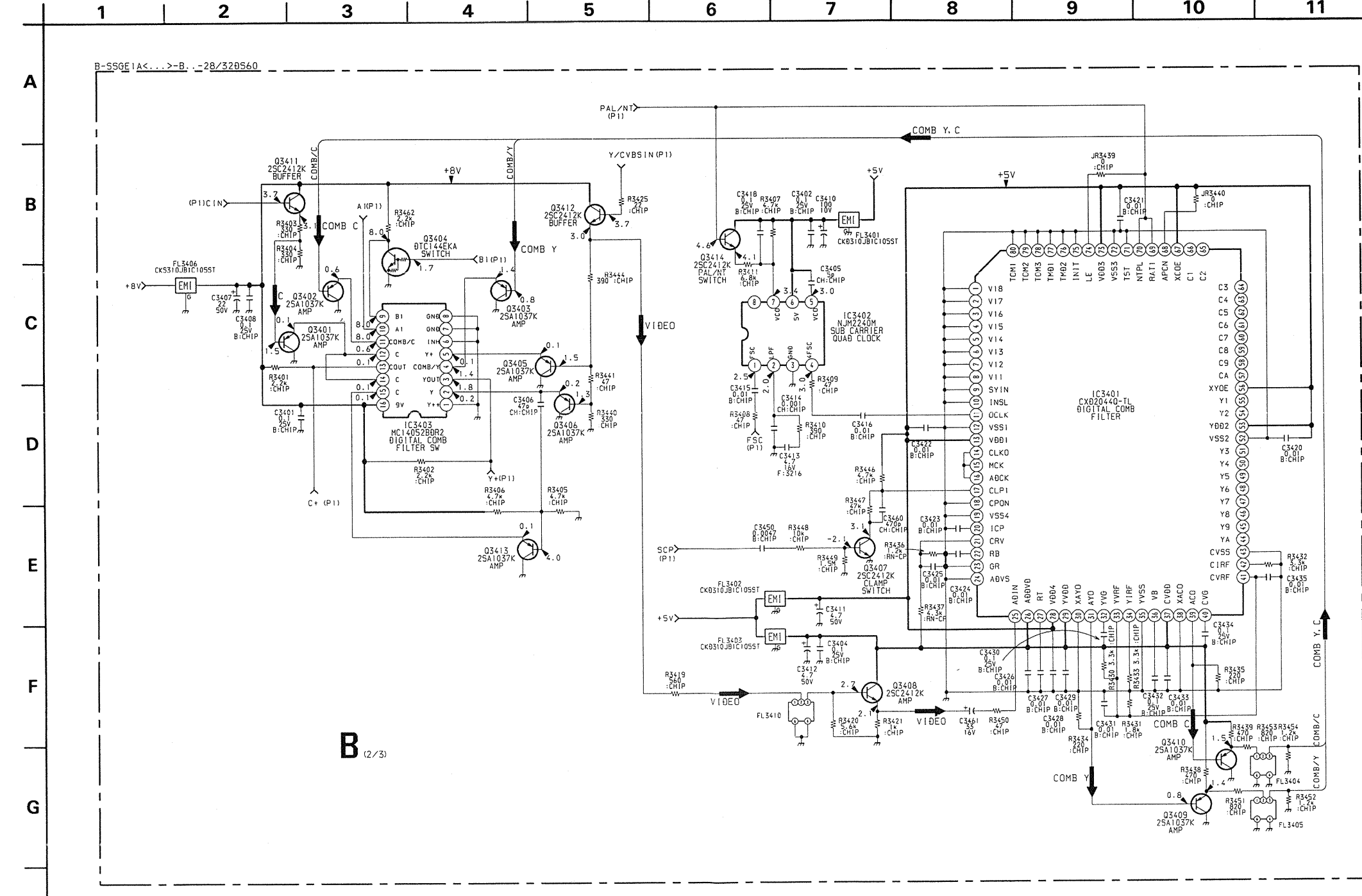
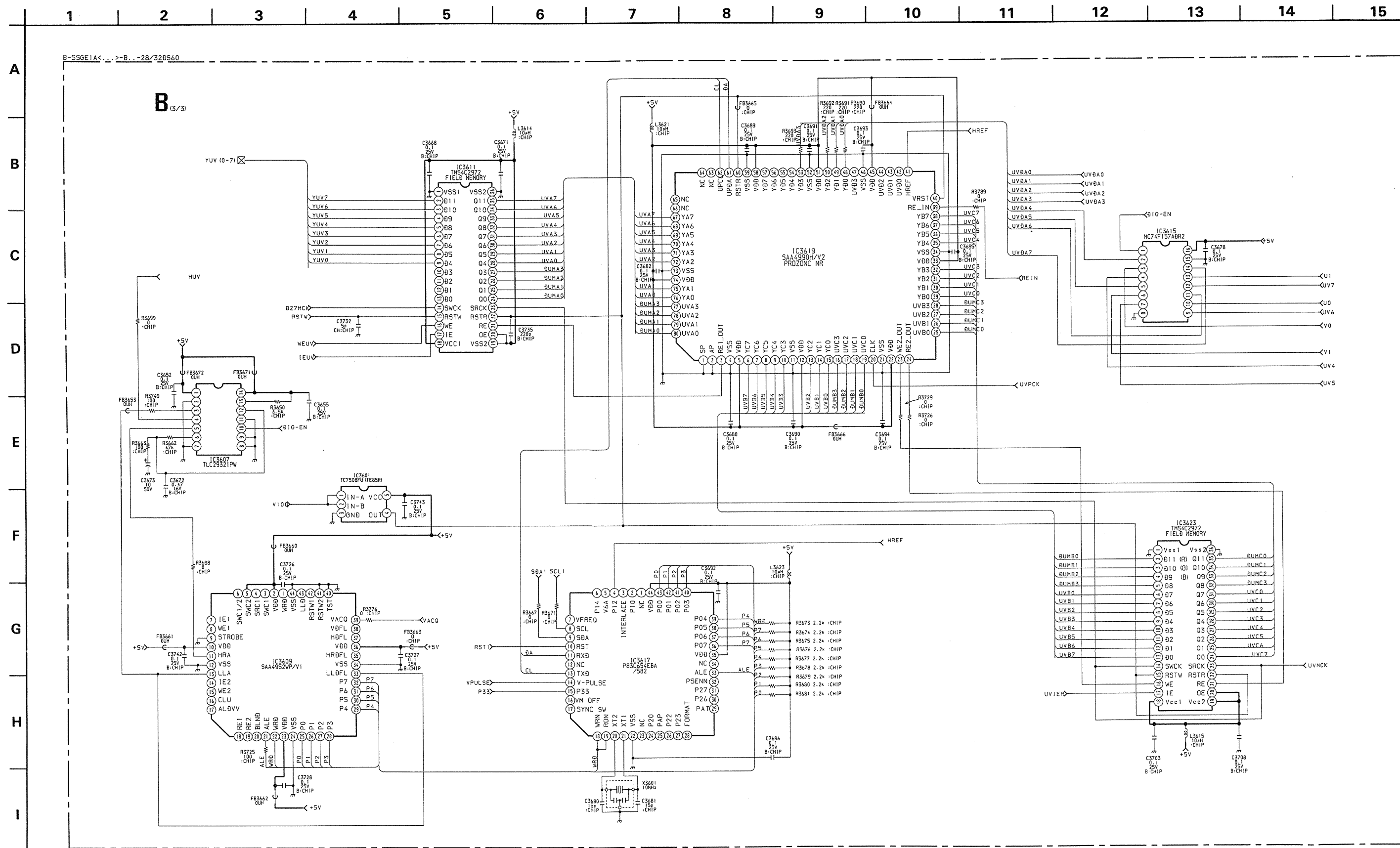
A (1/2) { AUDIO PROCESSOR, DOLBY NOISE REDUCTION MICRO CONTROLLER, MULTICOMPONENT PROCESSOR, MEGA TEXT, AUDIO OUT }





A
B
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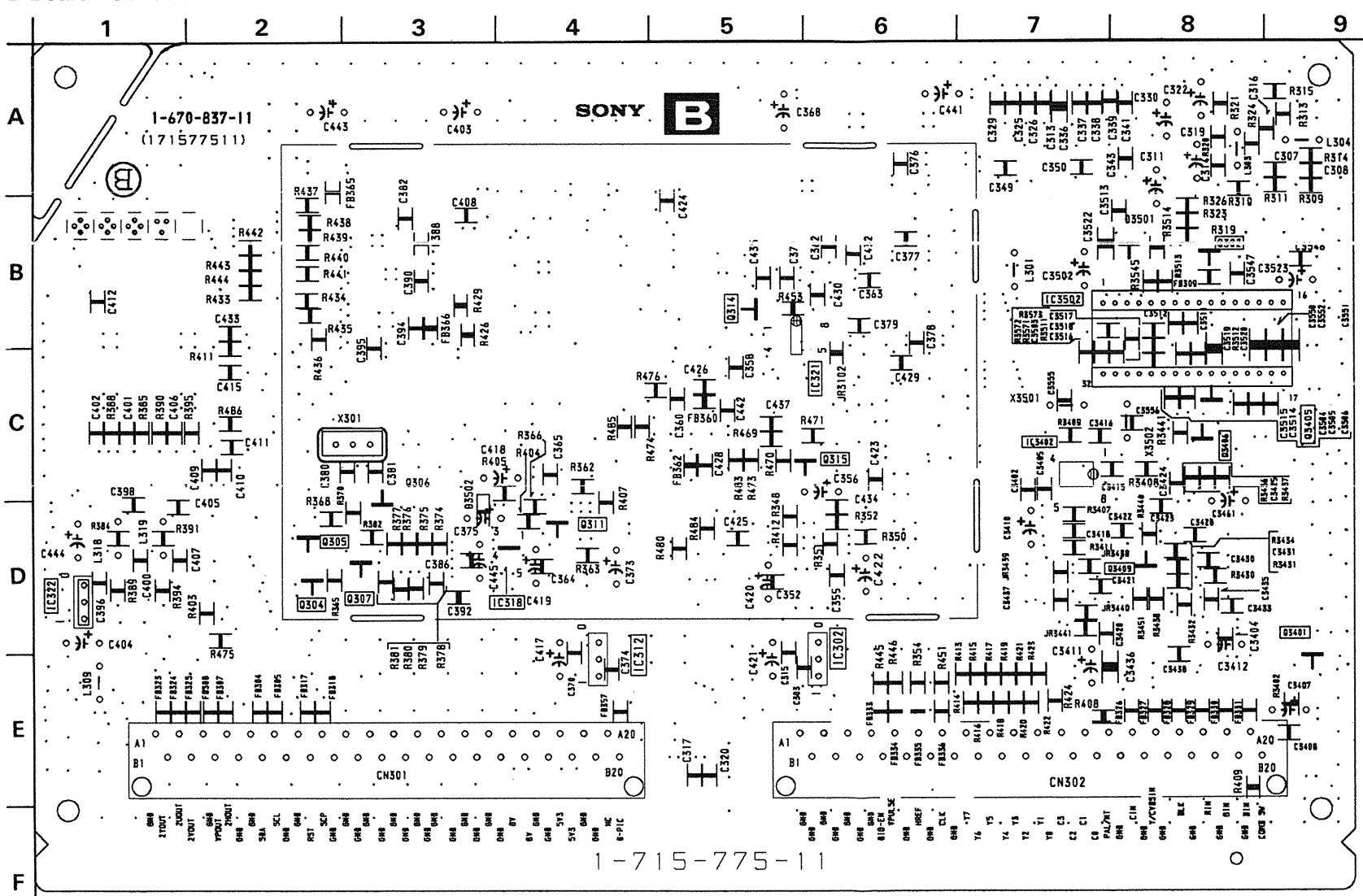


B BOARD

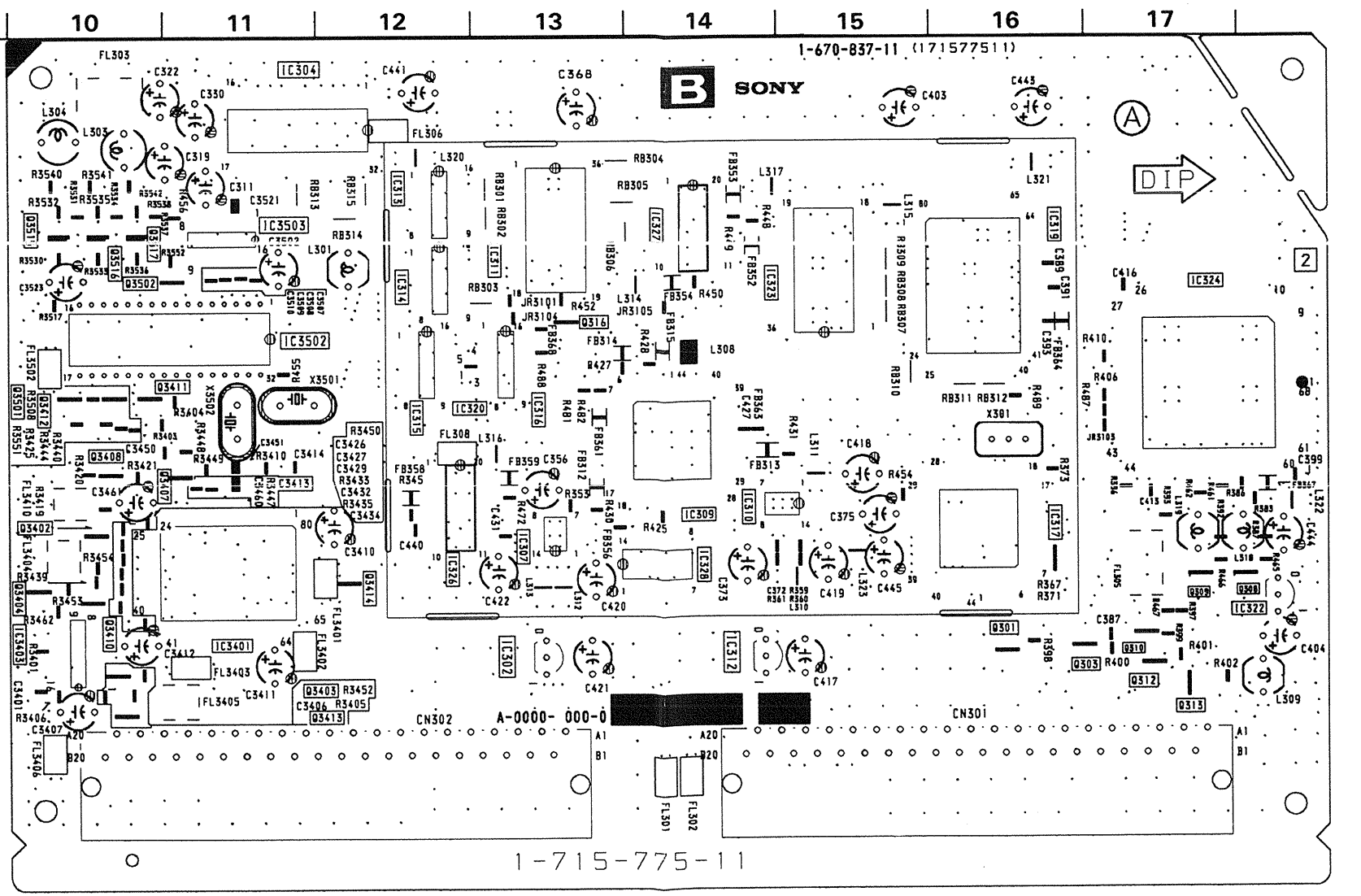
IC	Q304	D-2	
IC302	E-14	Q305	D-2
IC304	A-12	Q307	D-3
IC307	D-14	Q308	D-19
IC309	C-15	Q309	D-18
IC301	D-16	Q300	E-18
IC311	B-14	Q311	D-4
IC312	E-15	Q312	E-18
IC313	B-13	Q313	E-18
IC314	B-14	Q314	B-5
IC315	C-13	Q315	C-6
IC316	C-14	Q316	B-14
IC317	D-17	Q3401	D-11
IC318	D-4	Q3402	D-11
IC319	B-17	Q3403	E-13
IC320	C-14	Q3404	D-11
IC321	C-6	Q3405	C-9
IC323	B-16	Q3406	C-8
IC324	C-18	Q3407	C-12
IC326	D-13	Q3408	C-11
IC327	B-15	Q3409	D-8
IC328	D-15	Q3410	D-11
IC3401	D-12	Q3411	C-11
IC3402	C-7	Q3412	C-11
IC3403	D-11	Q3413	E-13
IC3502	B-12	Q3414	D-13
IC3503	B-12	Q3501	C-11
TRANSISTOR		Q3502	B-12
Q301	D-17	Q3515	B-11
Q302	B-8	Q3516	B-11
Q303	E-18	Q3517	B-11

B MAIN COLOR DECODER A/D, D/A CONVERTER / DIGITAL NOISE REDUCER

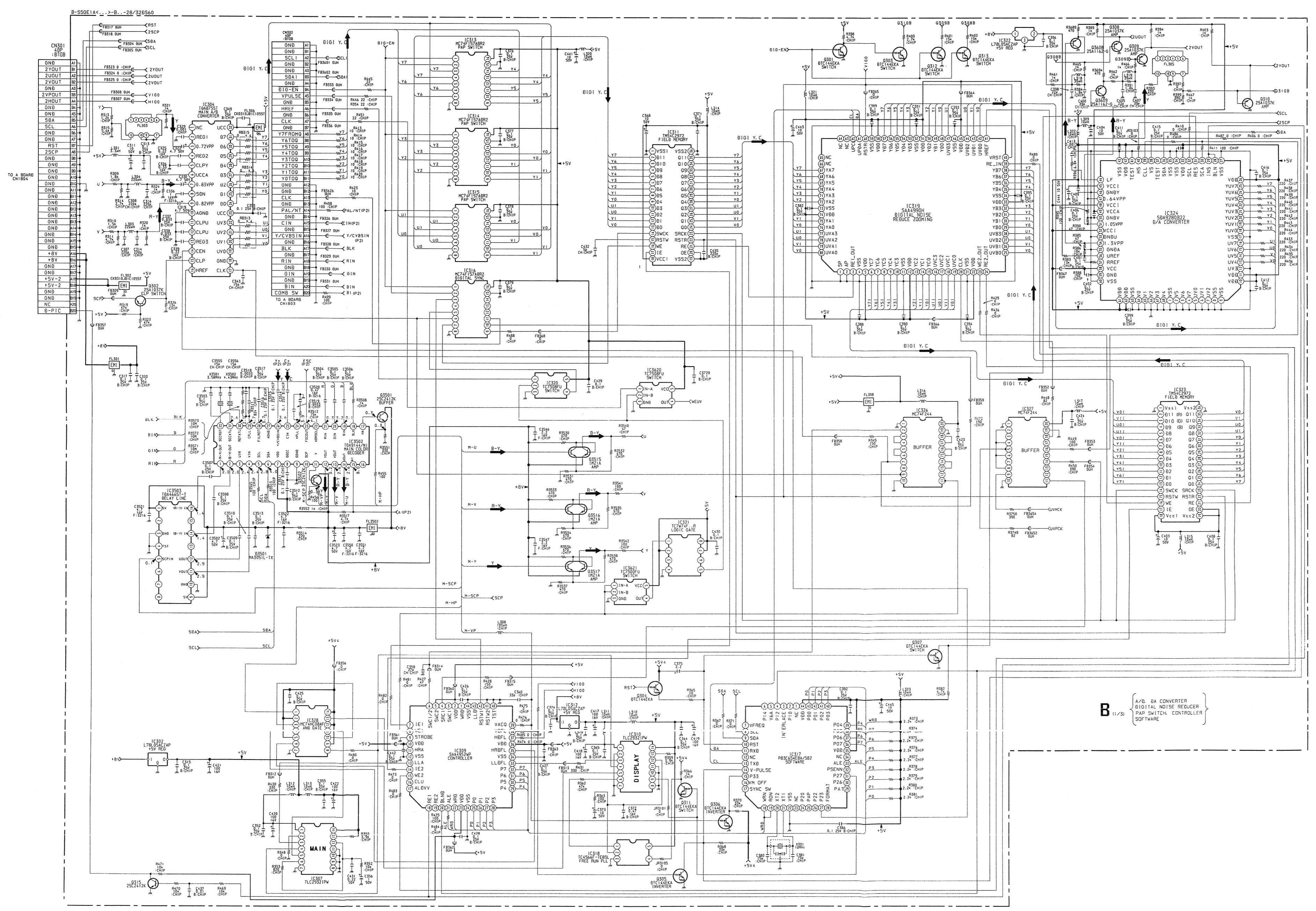
B Board <Conductor Side>



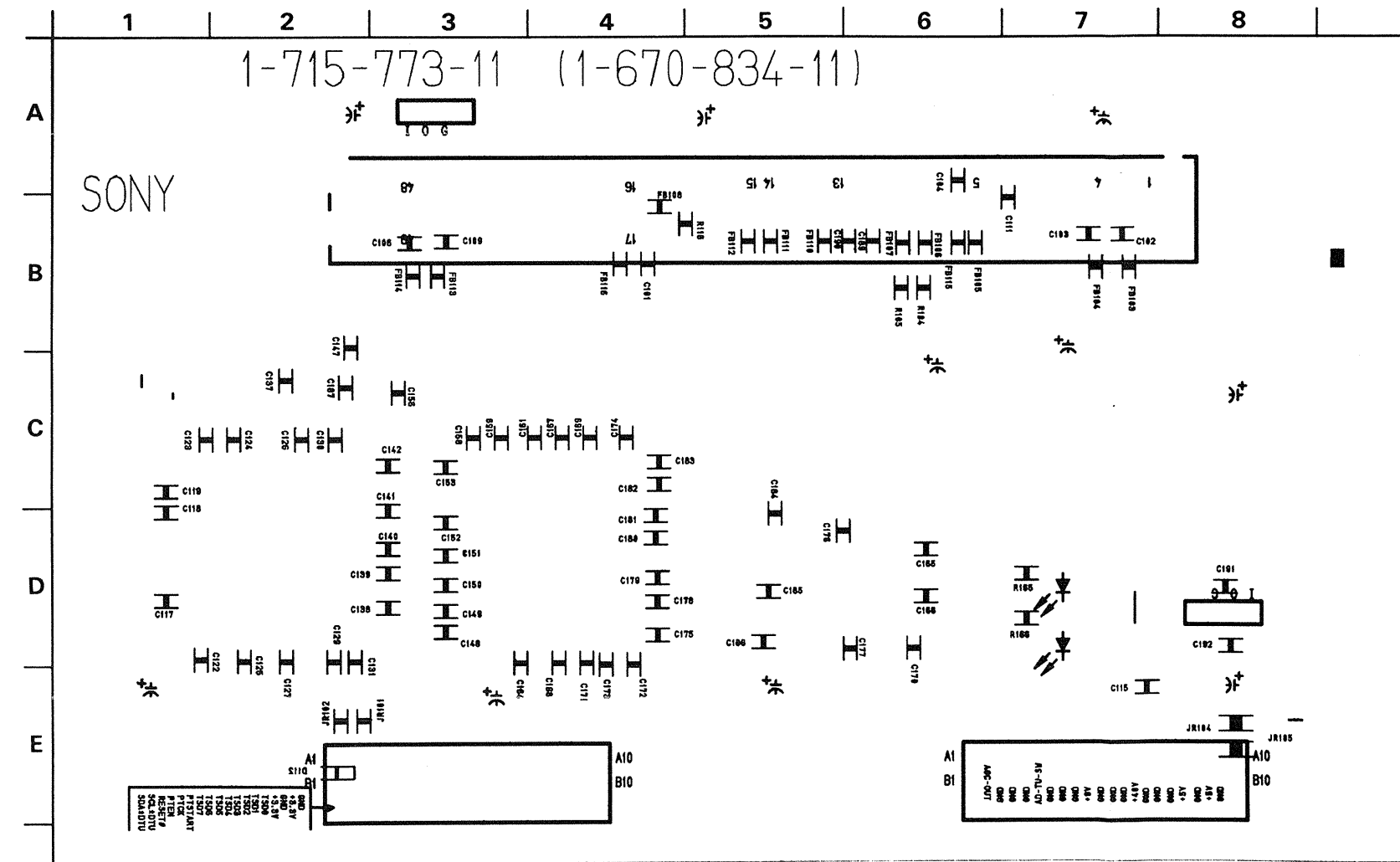
B Board <Component Side>



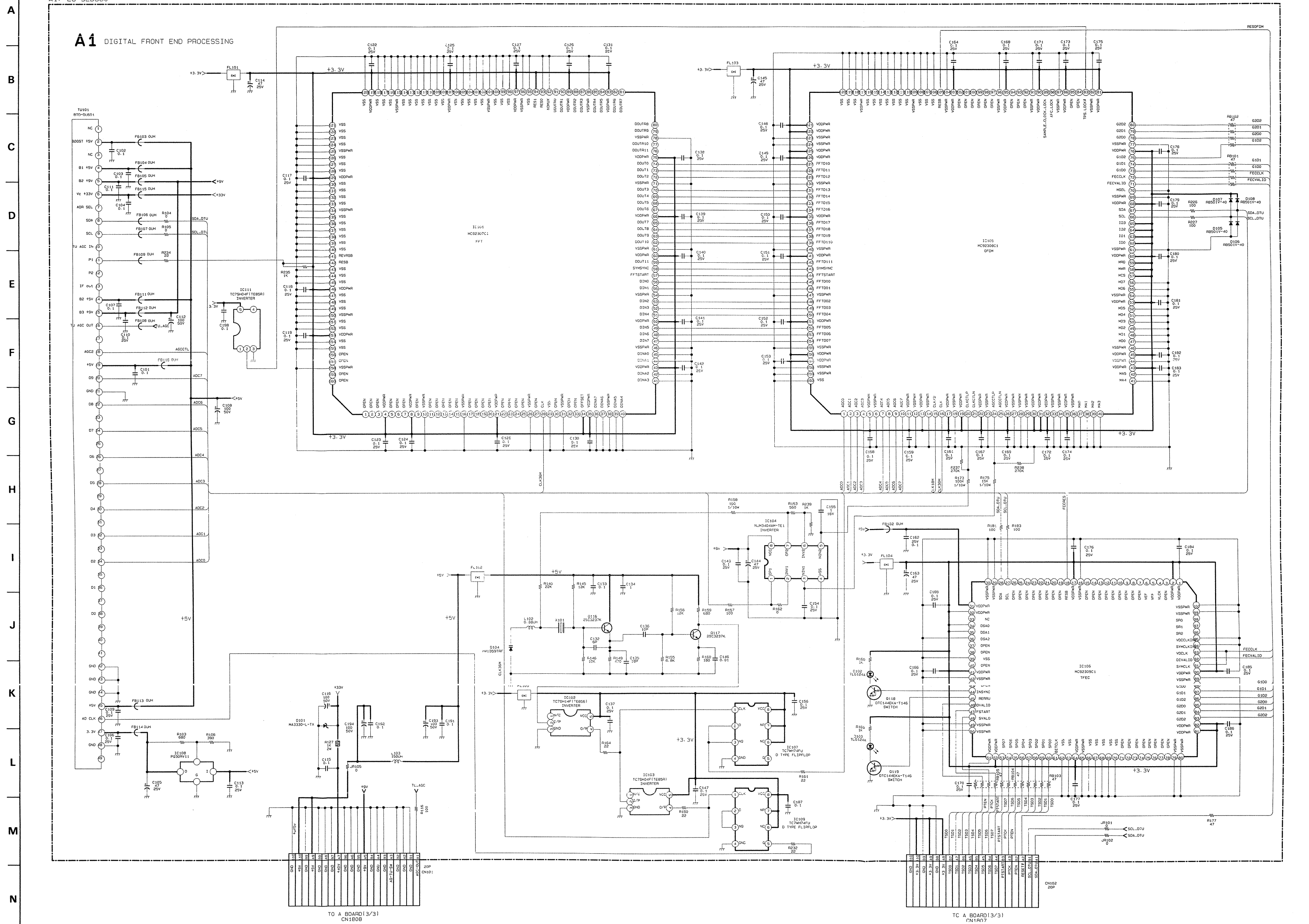
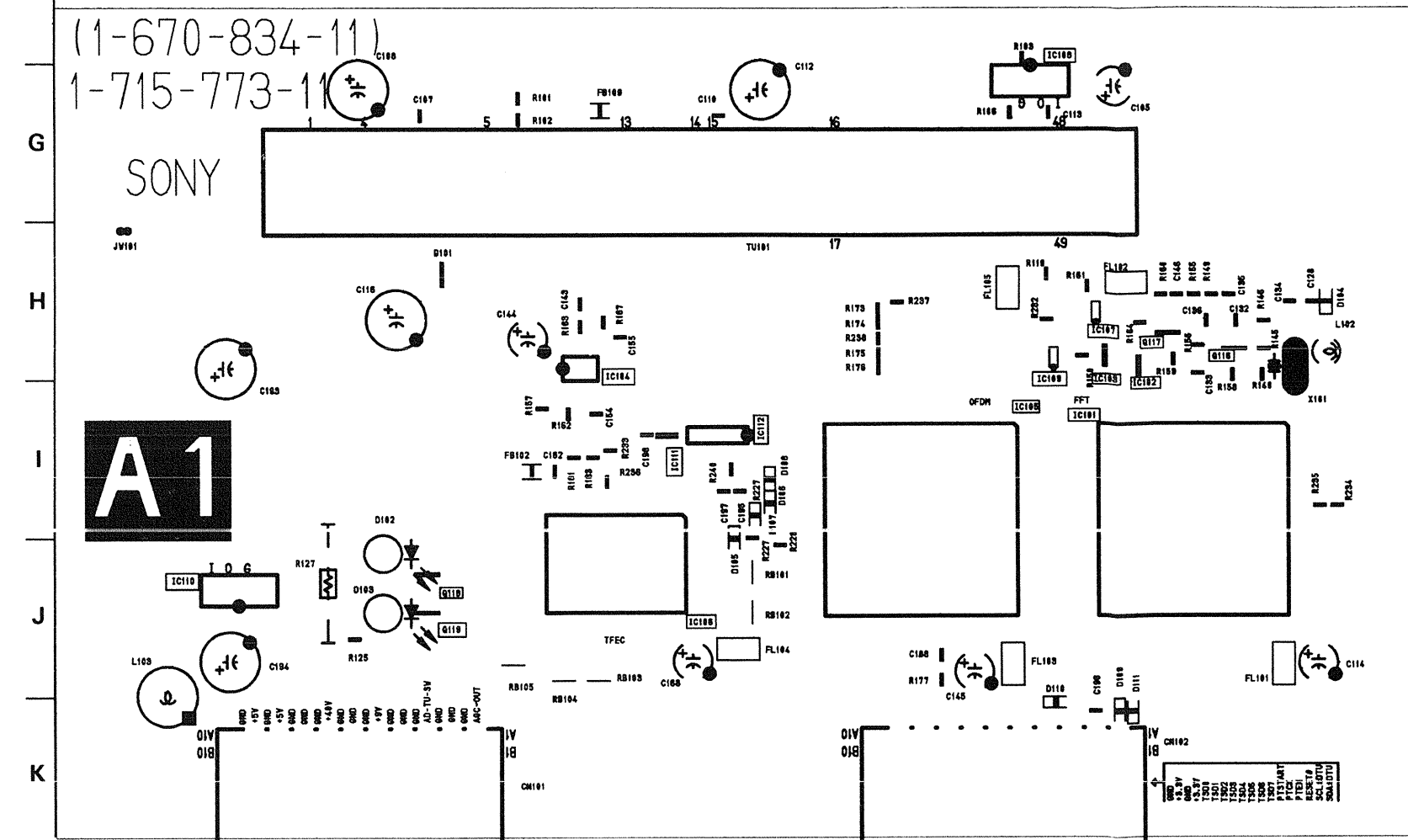
A
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A1 Board <Conductor Side>

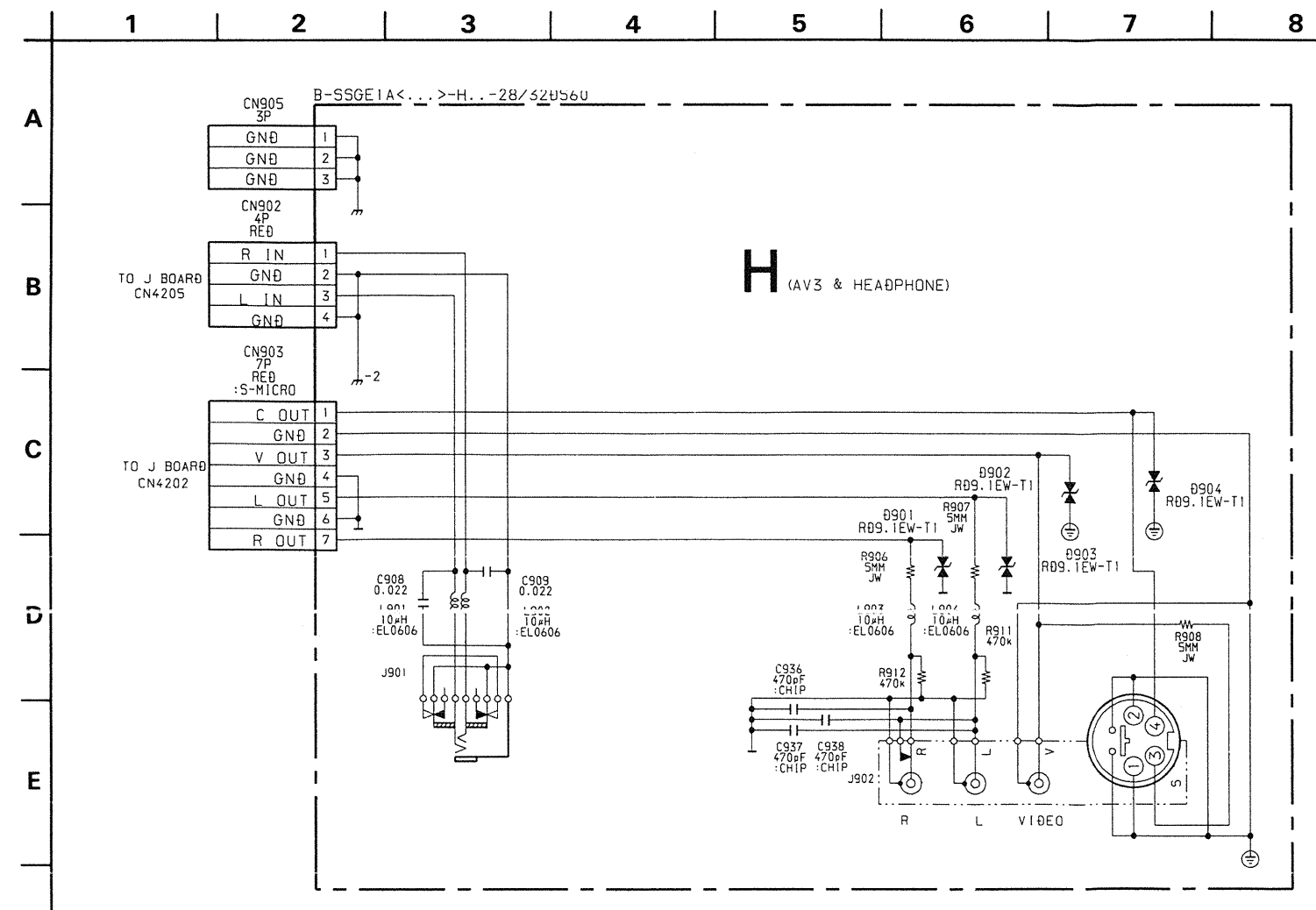
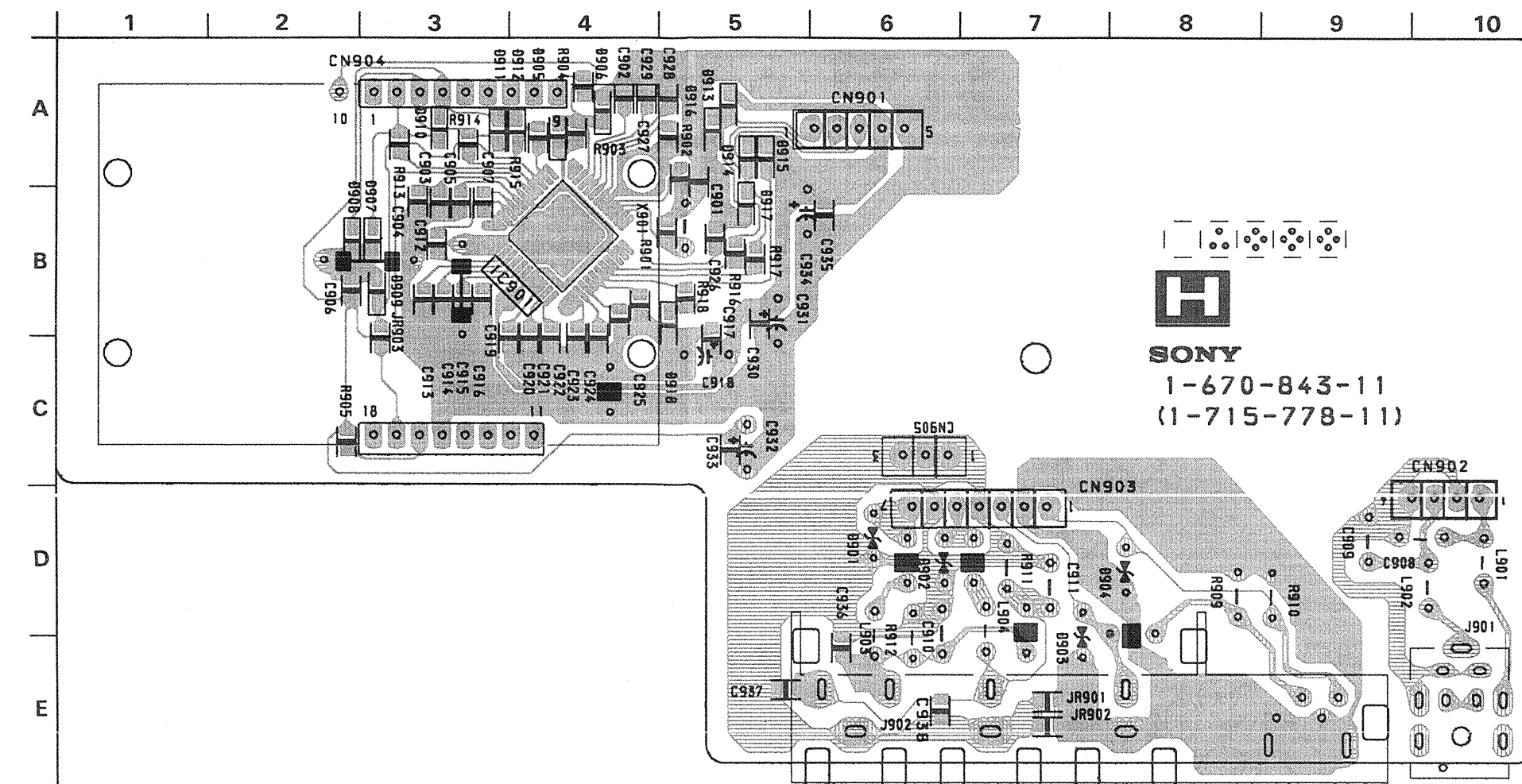


A1 Board <Component Side>



H [AV3 & HEADPHONE]

H Board



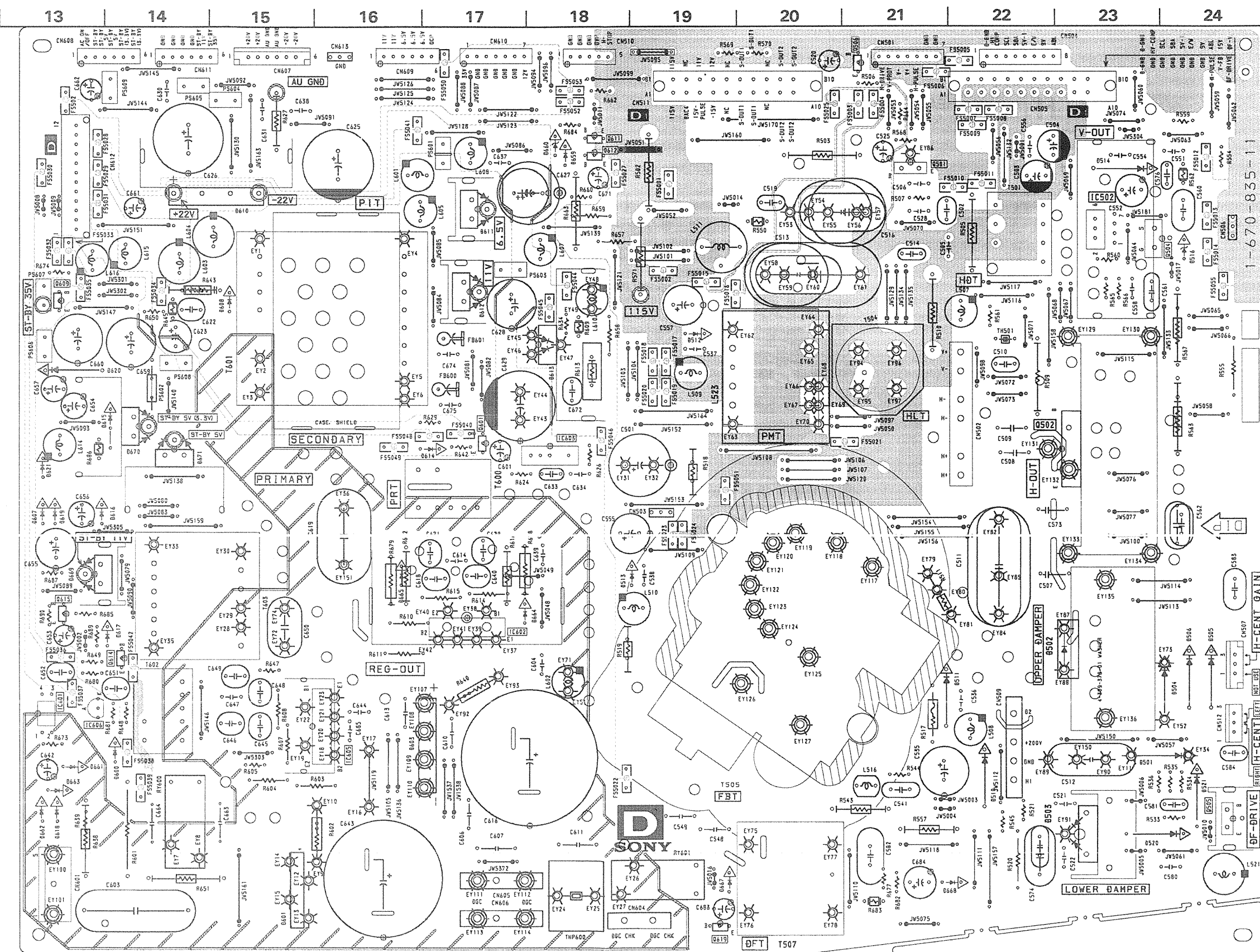
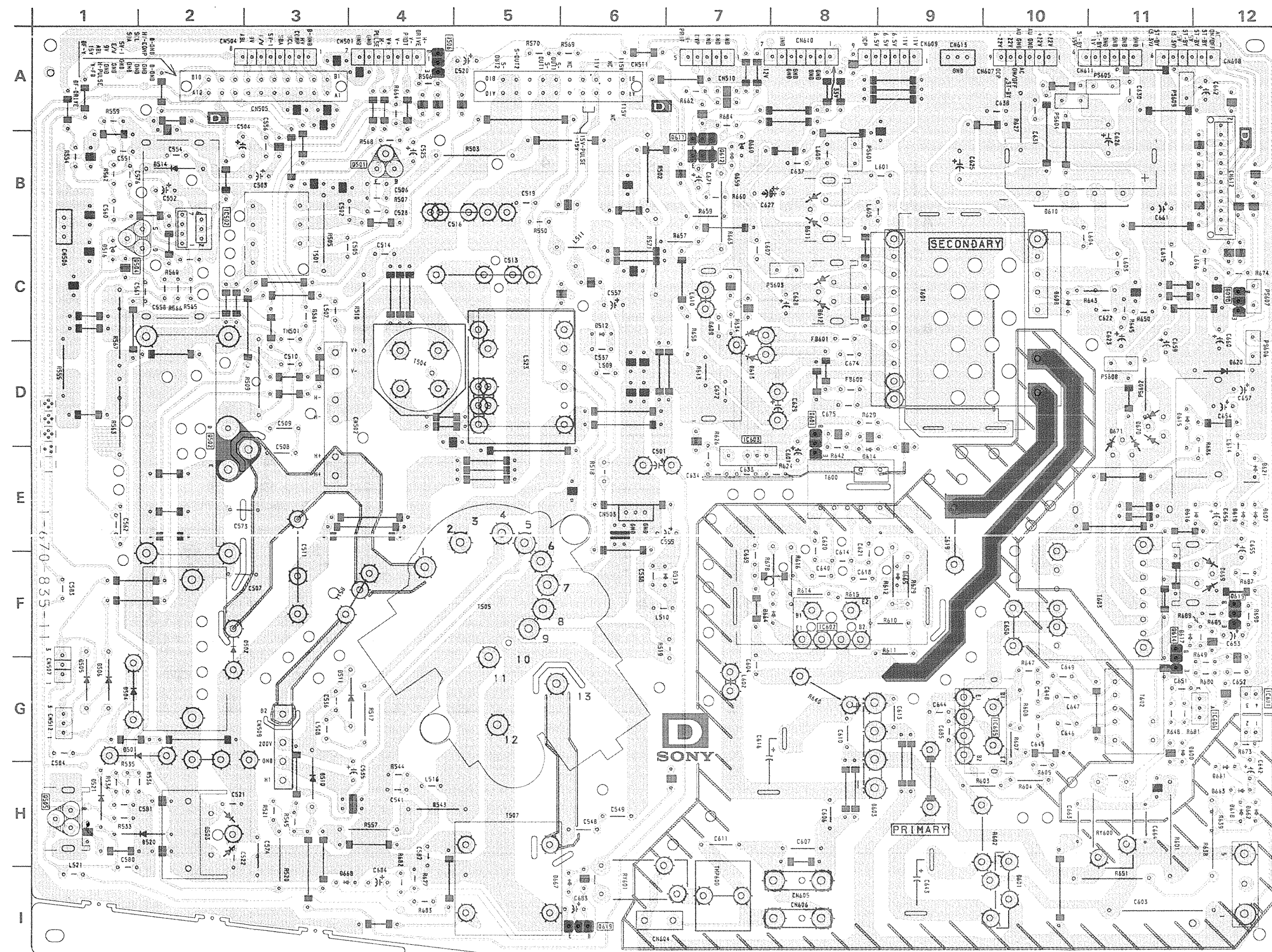
D [POWER SUPPLY AND DEFLECTION]

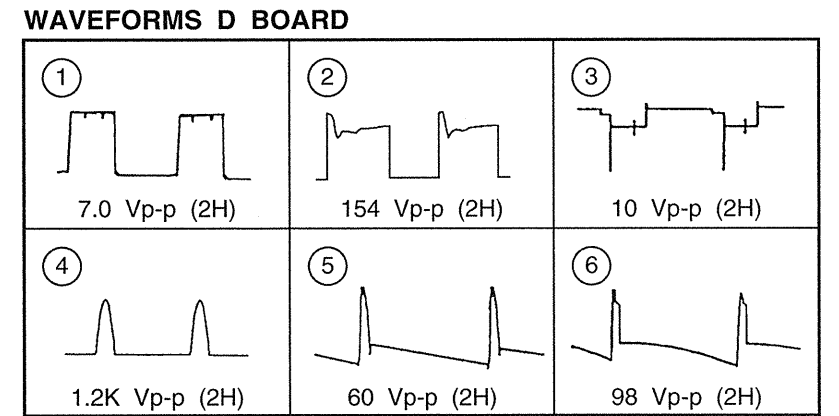
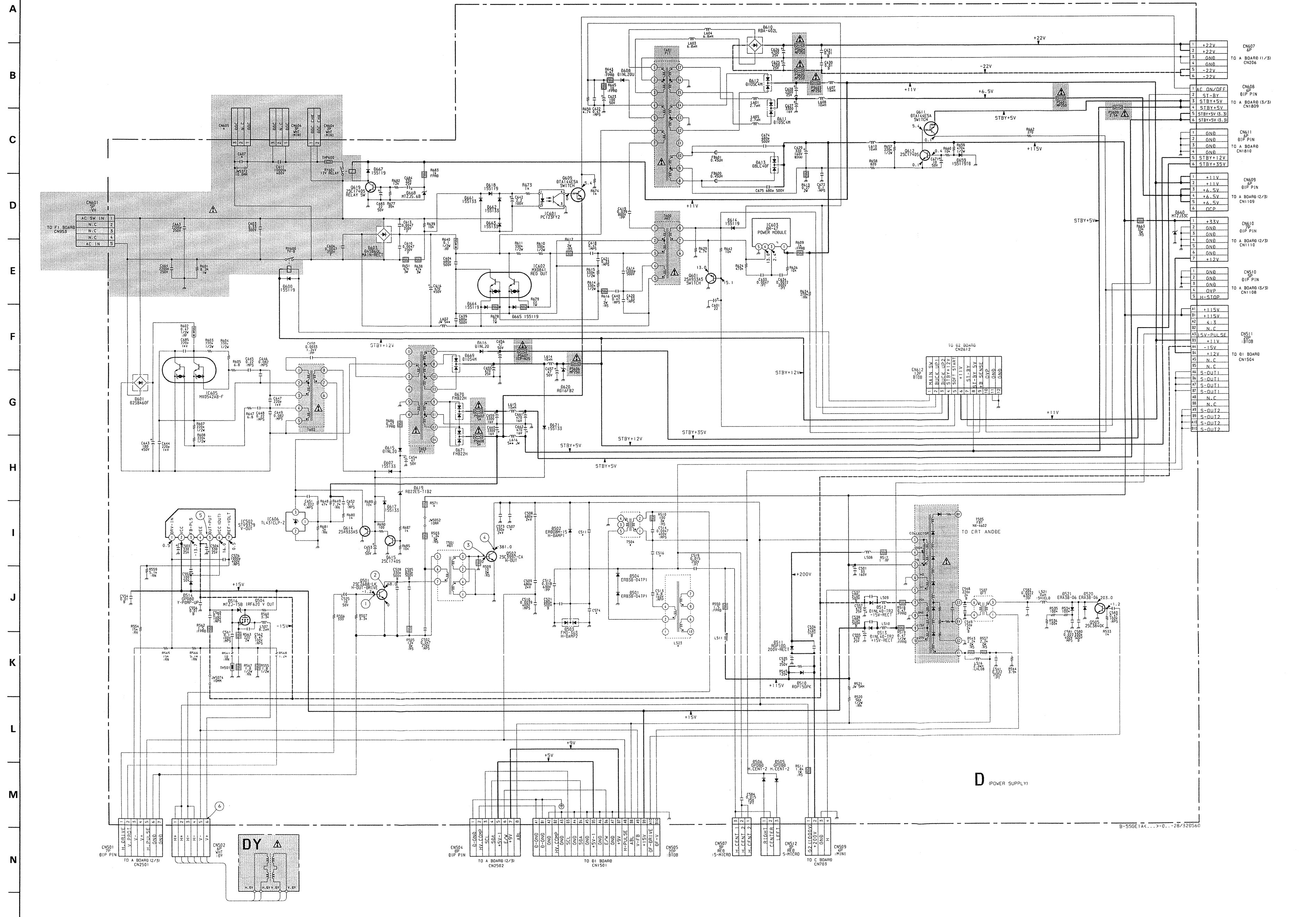
D Board <Conductor Side>

D Board <Component Side>

D1 BOARD

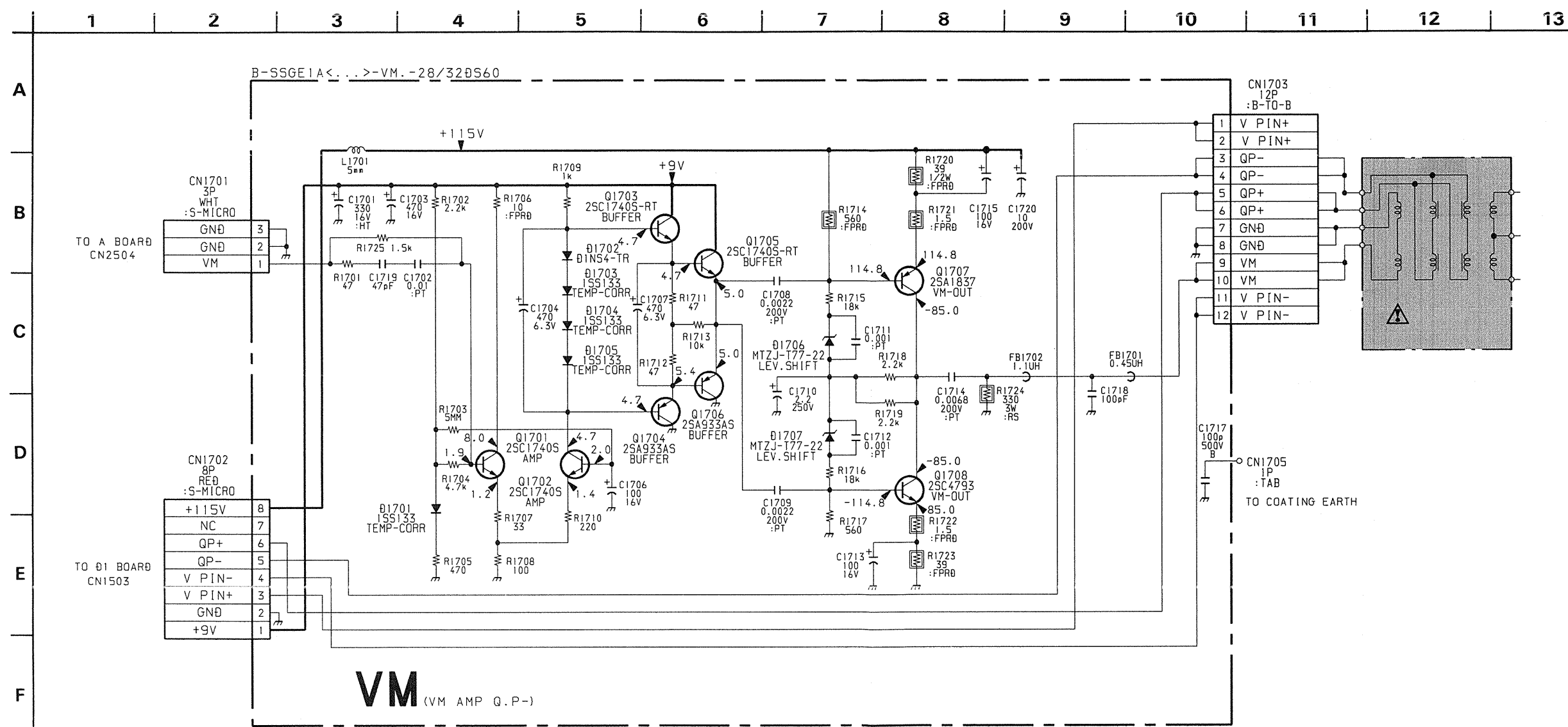
IC		DIODE	
IC1501	C - 12	Q1516	A - 11
IC1502	C - 13	Q1522	D - 15
IC1503	B - 10	Q1523	A - 6
IC1504	A - 11	Q1524	B - 10
IC1505	B - 14	Q1526	C - 9
IC1507	A - 15	Q1527	B - 9
IC1508	D - 12	Q1528	B - 10
IC1510	B - 13	Q1529	C - 8
IC1511	D - 11	Q1530	C - 8
IC1513	C - 10	Q1531	B - 9
TRANSISTOR		DIODE	
Q1501	A - 10	D1502	B - 10
Q1502	C - 12	D1506	B - 12
Q1503	B - 13	D1509	B - 14
Q1504	B - 14	D1510	B - 12
Q1505	B - 14	D1511	B - 12
Q1506	B - 16	D1512	B - 16
Q1507	A - 15	D1513	B - 15
Q1508	A - 12	D1515	D - 11
Q1509	B - 16	D1516	U - 12
Q1510	C - 15	D1529	B - 2
Q1513	C - 14	D1530	D - 14
Q1514	C - 12	D1531	D - 10
Q1515	B - 4	D1535	A - 11
		D1546	C - 9
		D1547	B - 9
		D1548	B - 9
		D1549	B - 14





D BOARD * MARK

Ref	28DS60U	32DS60U
C507	-	330PF
C511	18000PF	0.017MF
C516	0.56MF	0.39MF
C574	0.0047MF	0.0033MF
C607	JW 10.0MM	0.01MF
CN605	-	3P
LS23	1-416-447-11	1-416-448-11
RS71	1K	1.2K
TS04	1-431-599-11	1-431-600-11

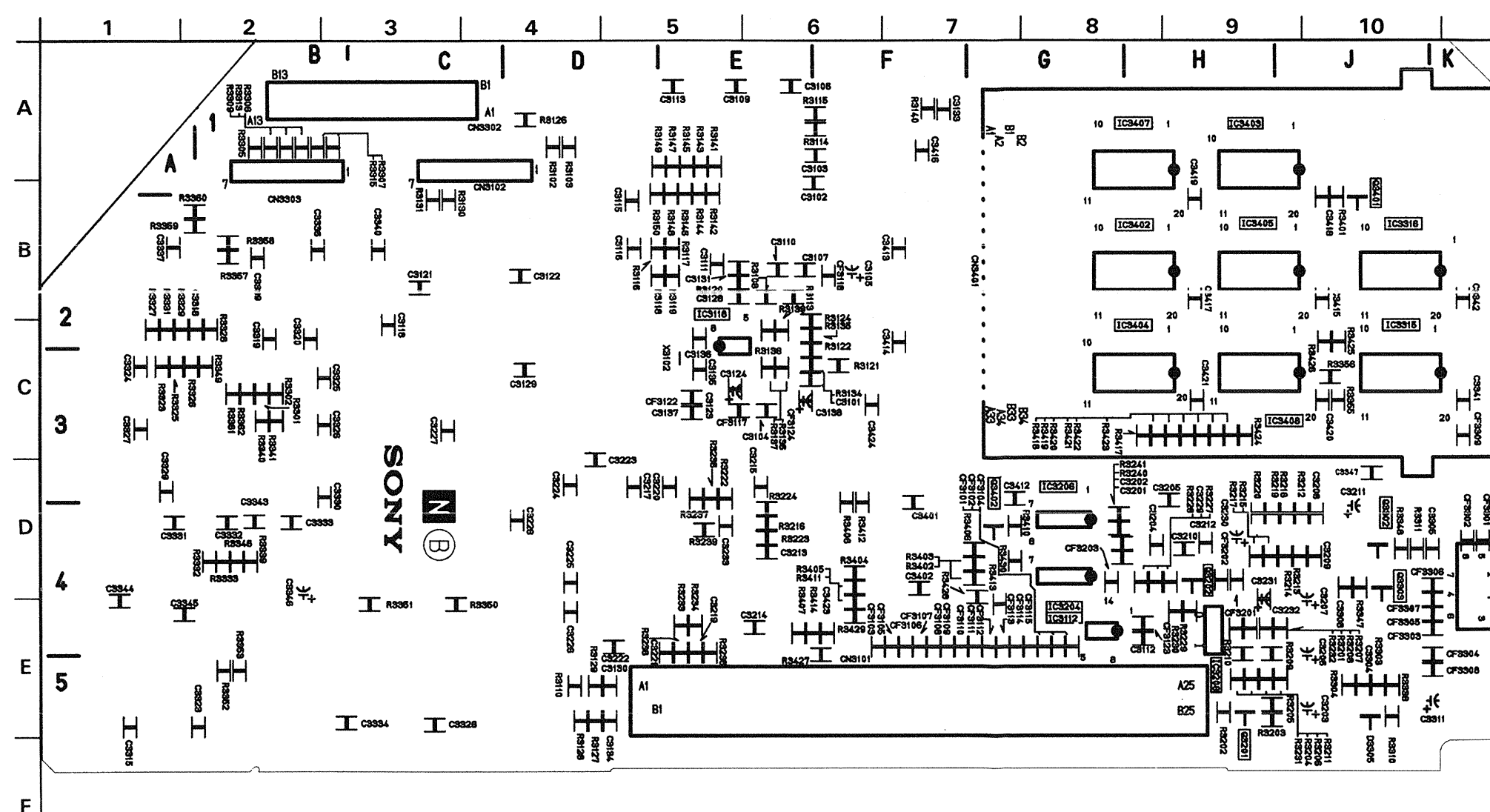


N BOARD

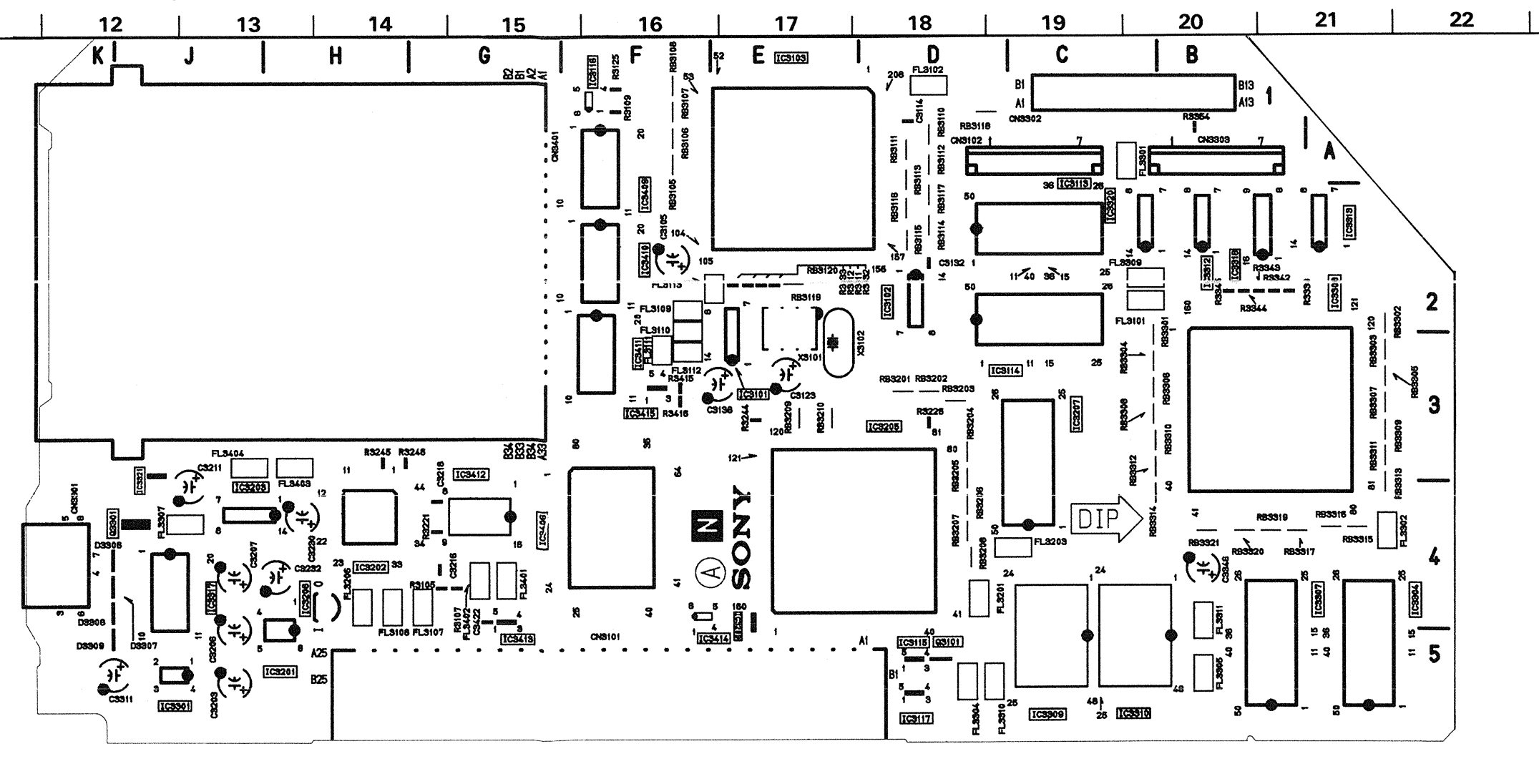
IC	Location	IC	Location
IC3101	C - 18	IC3402	B - 8
IC3102	B - 19	IC3403	A - 9
IC3103	A - 18	IC3404	C - 9
IC3112	E - 8	IC3405	B - 9
IC3115	C - 10	IC3407	B - 17
IC3201	E - 14	IC3408	C - 9
IC3202	D - 15	IC3409	B - 17
IC3203	D - 14	IC3410	B - 17
IC3204	D - 8	IC3411	C - 17
IC3205	C - 19	IC3412	D - 16
IC3206	D - 8	IC3413	E - 16
TRANSISTOR			
IC3207	D - 20	Q3101	E - 19
IC3208	E - 9	Q3201	E - 9
IC3301	E - 13	Q3202	D - 9
IC3304	E - 22	Q3301	D - 13
IC3307	E - 22	Q3302	D - 10
IC3308	B - 22	Q3303	D - 10
IC3309	E - 21	Q3401	A - 10
IC3310	E - 21	Q3402	D - 7
DIODE			
IC3312	B - 22	D3305	E - 10
IC3313	B - 22	D3306	D - 13
IC3315	E - 19	D3307	D - 13
IC3316	B - 10	D3308	E - 13
IC3317	E - 13	D3309	E - 13
IC3318	C - 10		
IC3320	B - 20		

N [DIGITAL PROCESSING]

N Board <Conductor Side>

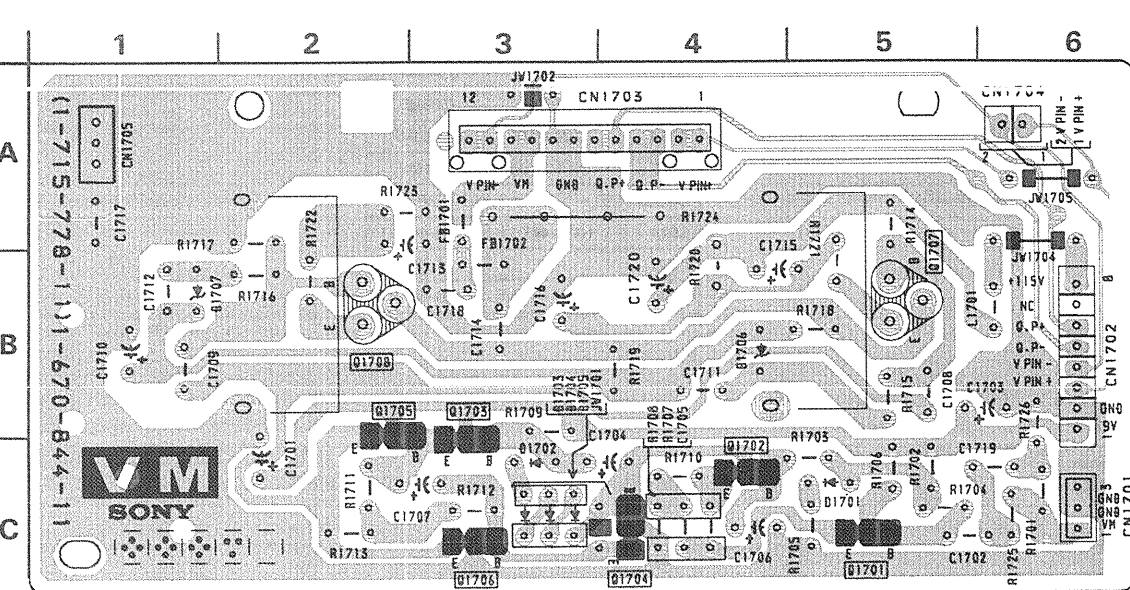


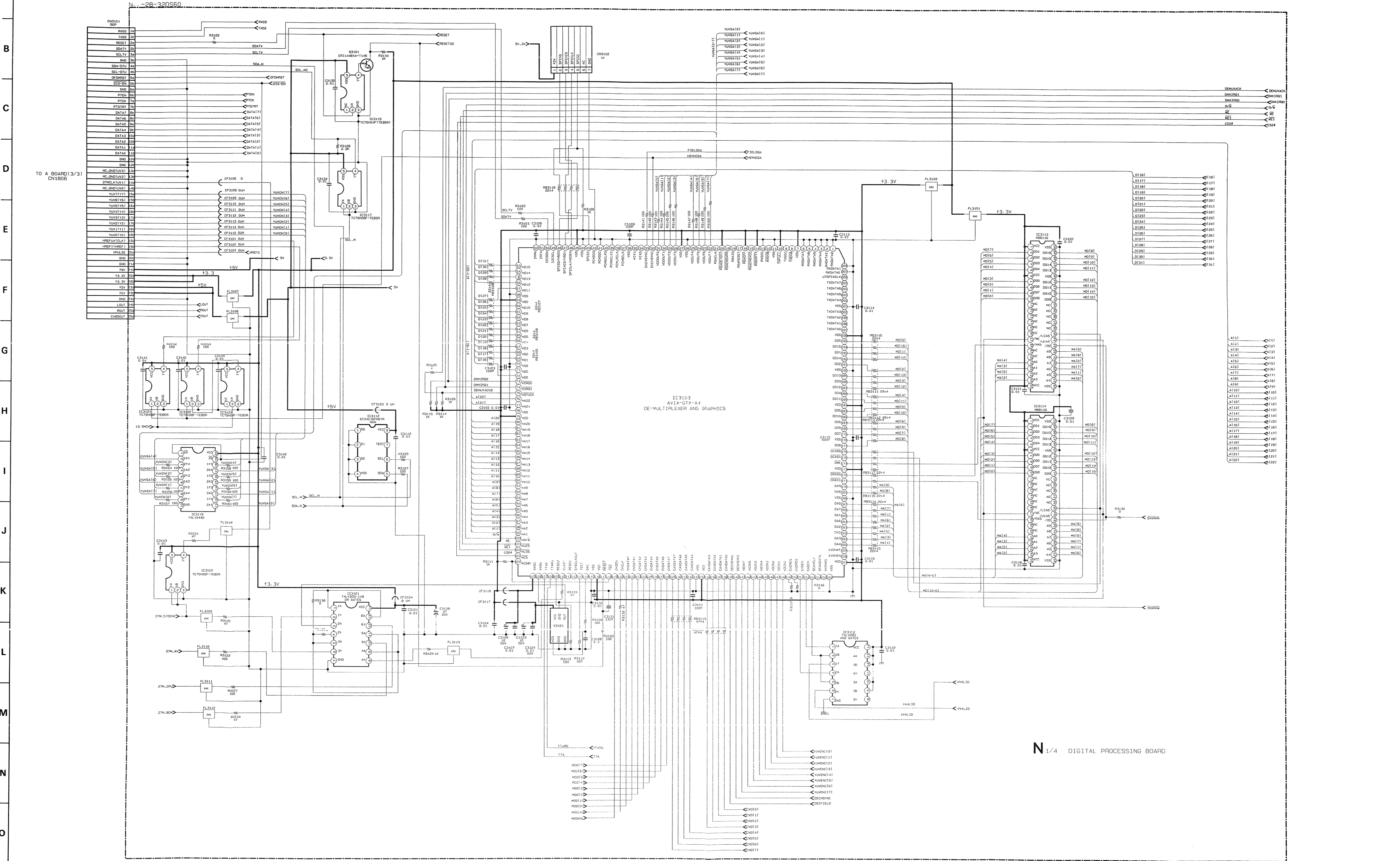
N Board <Component Side>



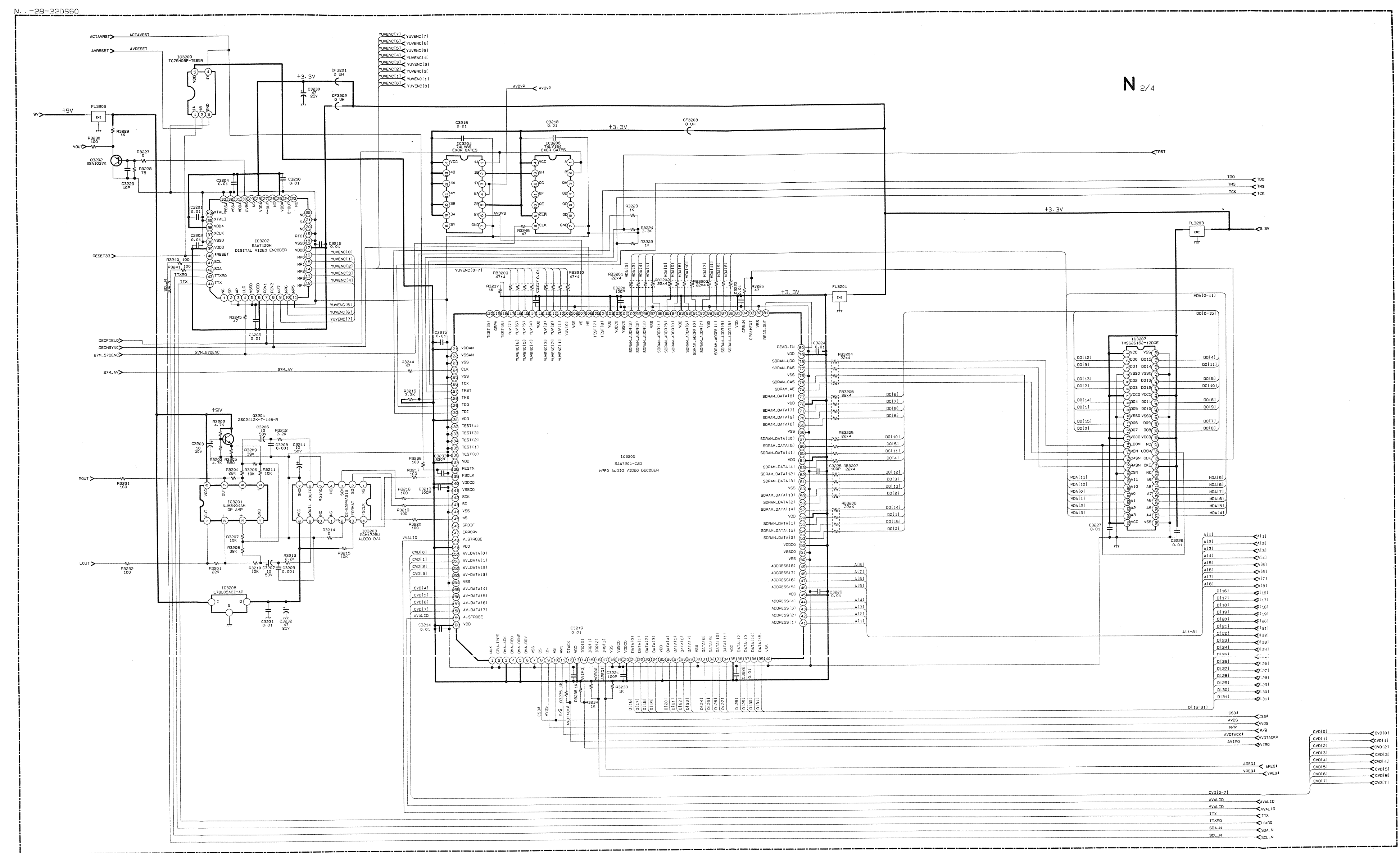
VM [VM AMP, QP]

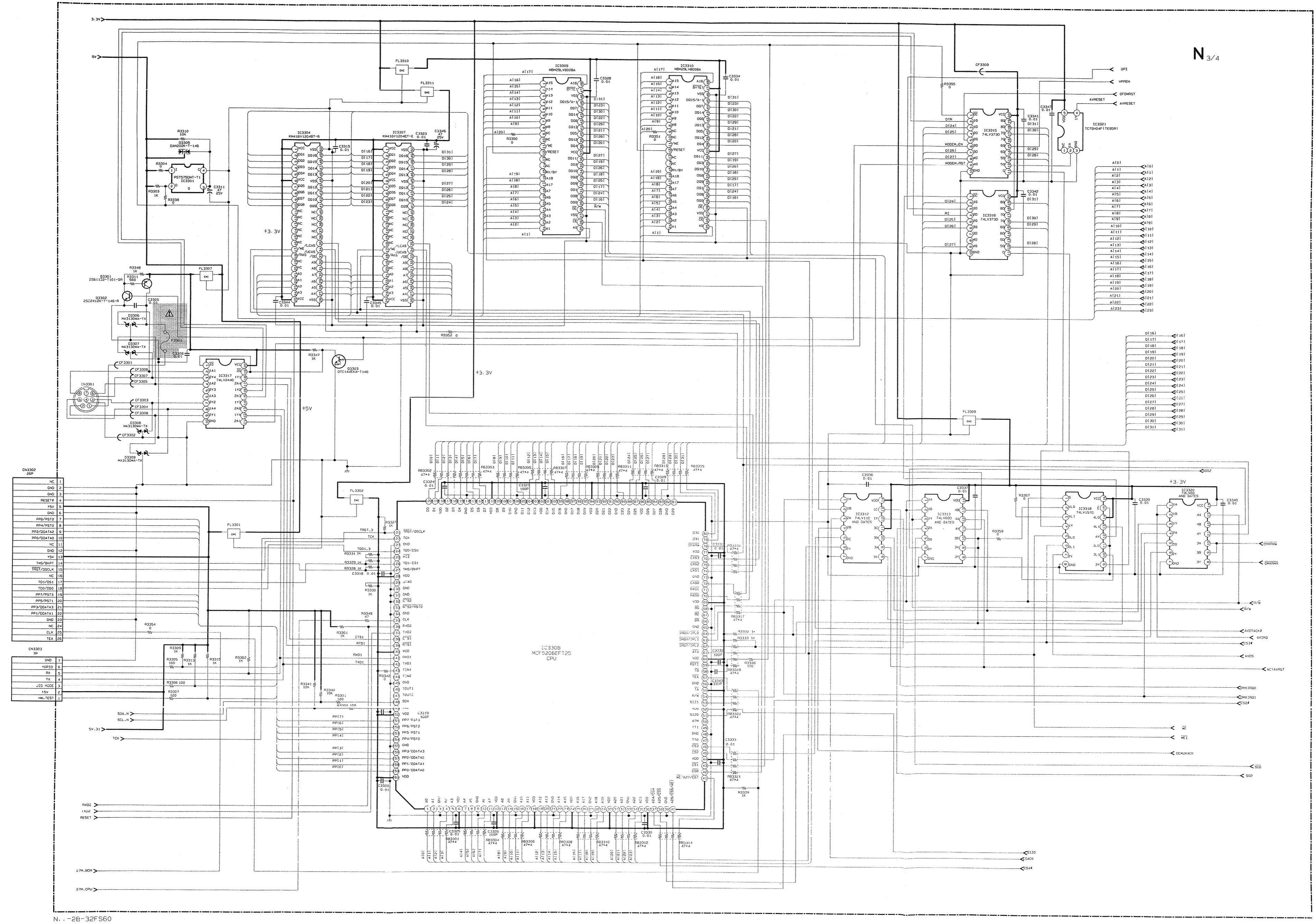
VM Board



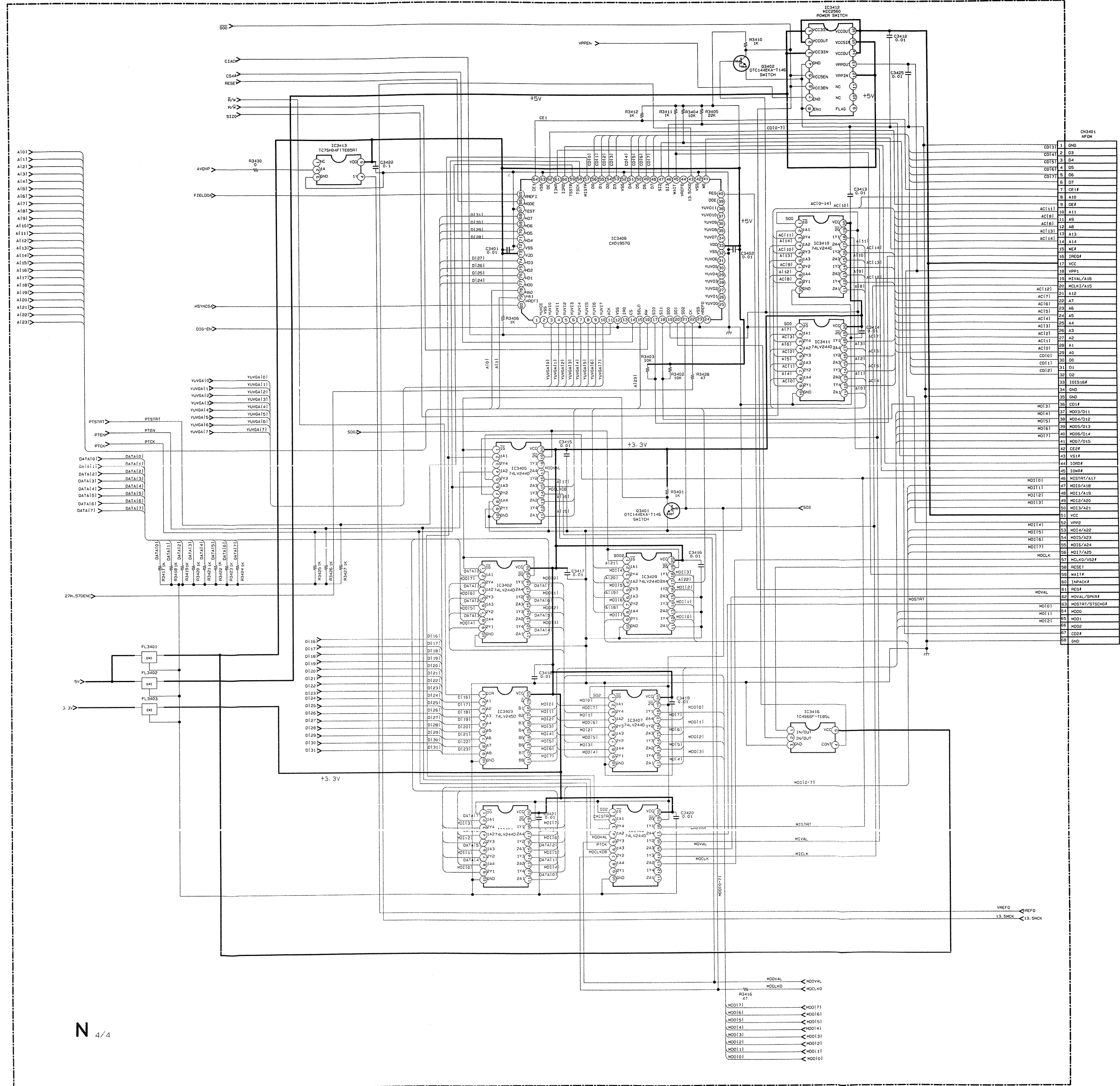


N_{1/4} DIGITAL PROCESSING BOARD





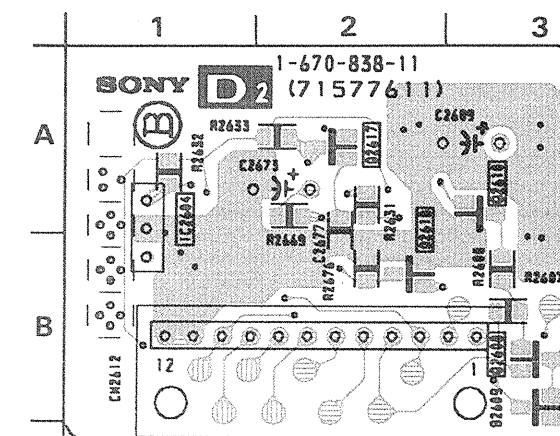
N. . -28-32FS60



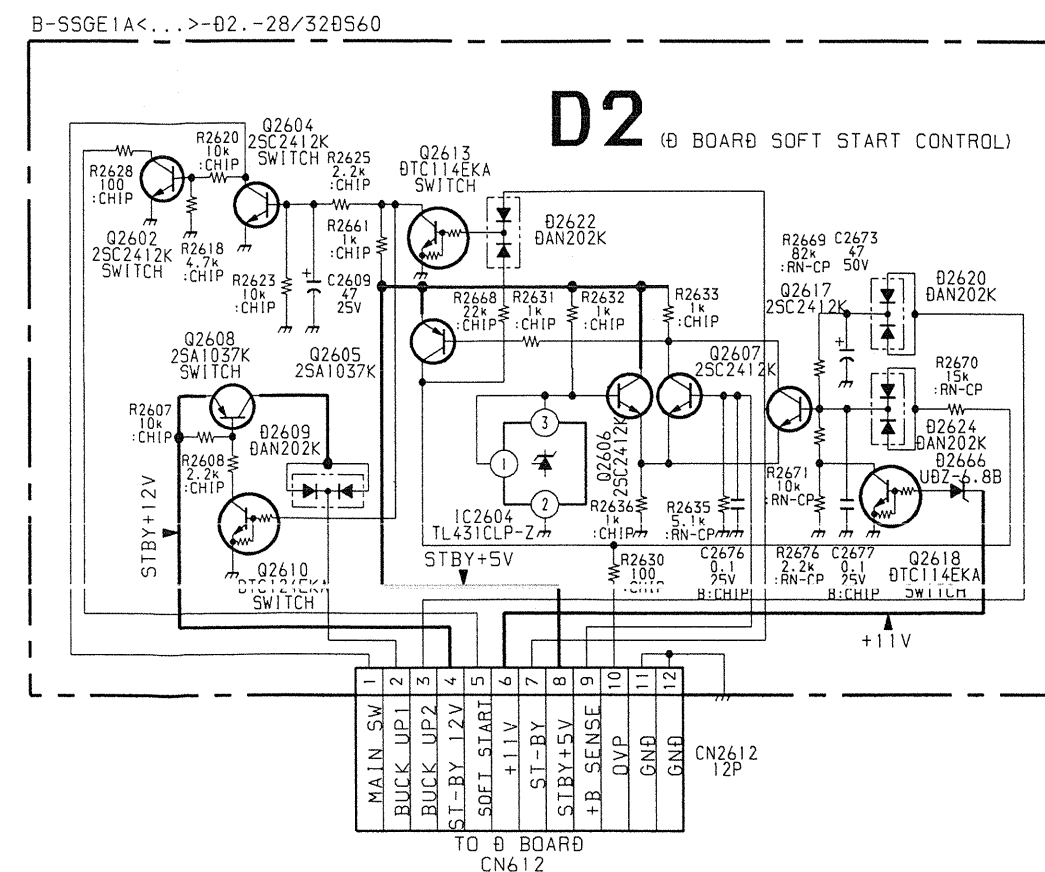
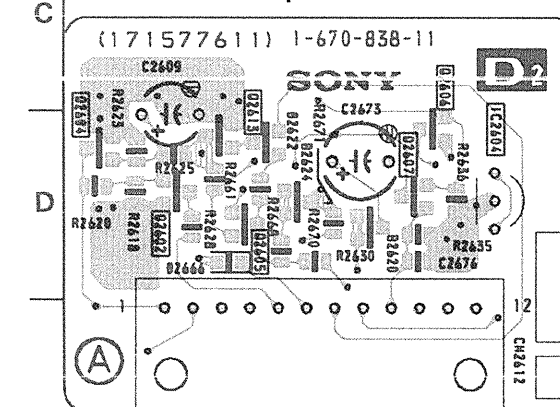
N 4/4

D2 [SOFT START CONTROL]

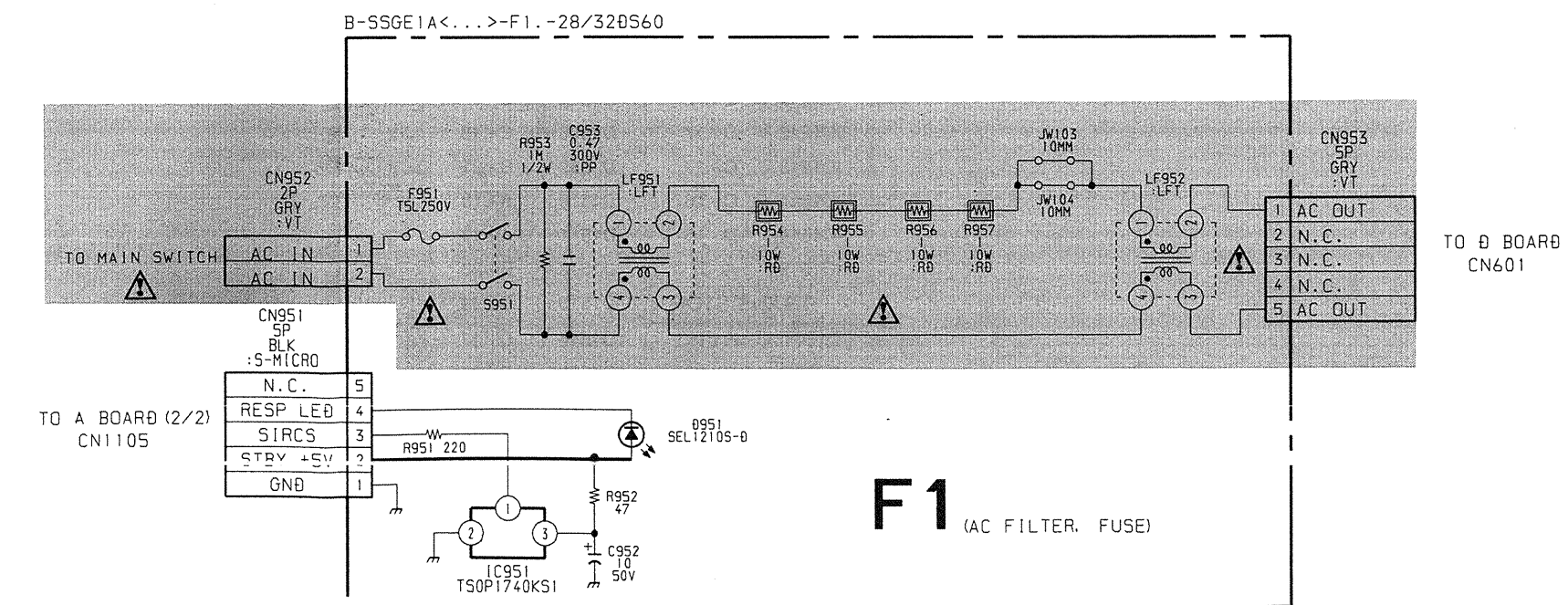
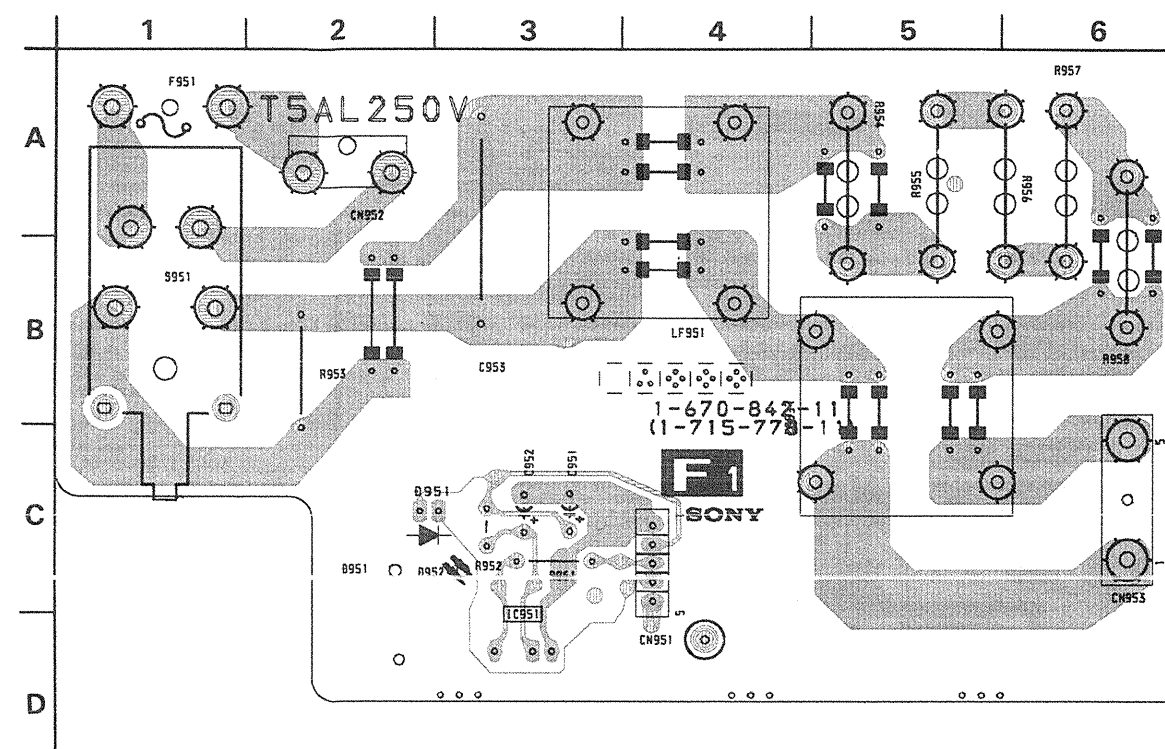
D2 Board <Conductor Side>



D2 Board <Component Side>



F1 [AC FILTER FUSE]

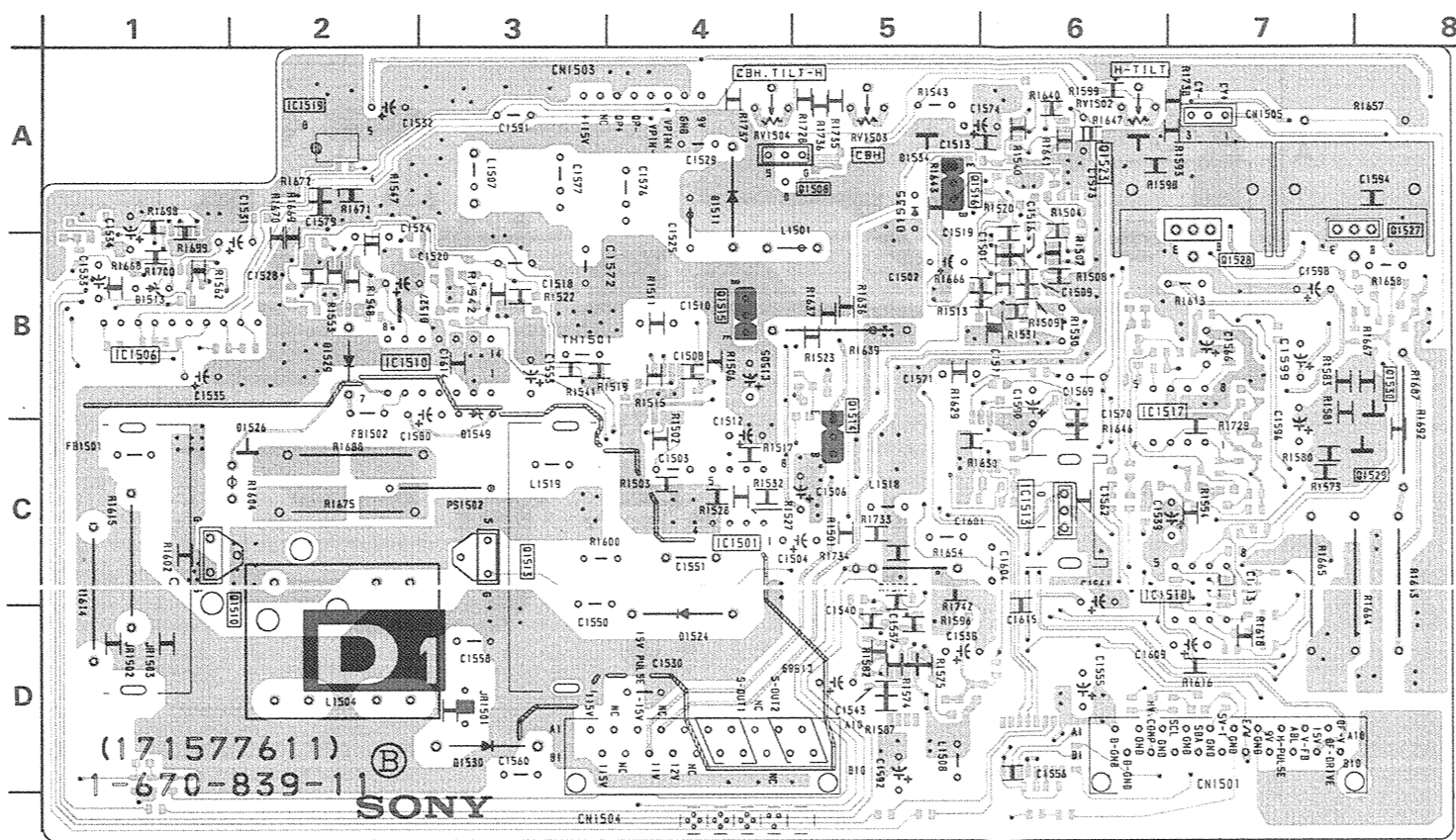


D1 BOARD

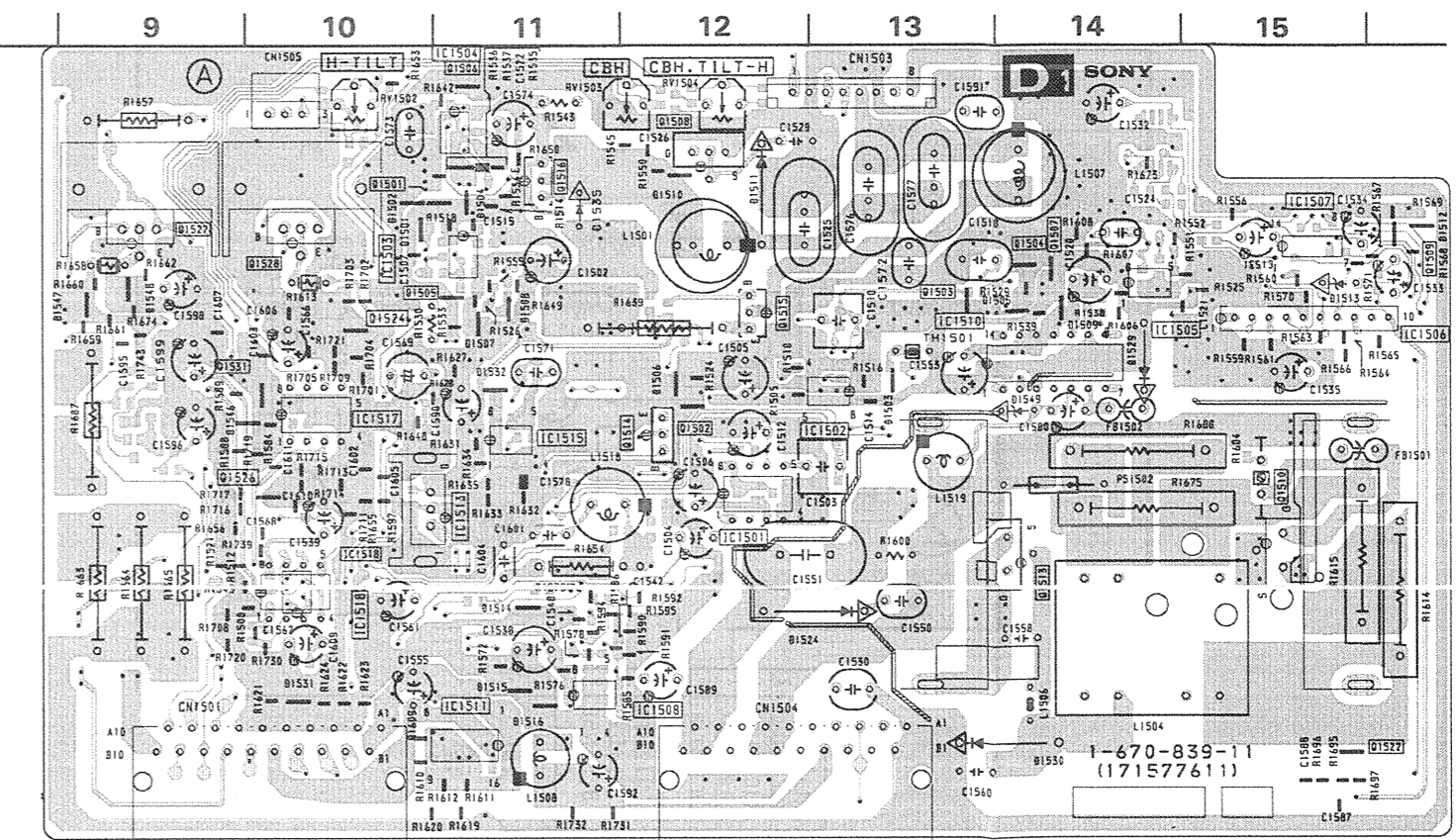
IC		Q1526	C - 15
IC1501	D - 19	Q1527	B - 9
IC1502	C - 19	Q1528	B - 16
IC1503	C - 19	Q1529	C - 9
IC1504	A - 17	Q1530	C - 9
IC1505	B - 22	Q1531	C - 16
IC1507	B - 22	DIODE D1502 B - 17 D1503 C - 20 D1504 B - 17 D1506 C - 18 D1509 B - 21 D1510 A - 18 D1511 A - 19 D1512 B - 23 D1513 B - 23 D1514 D - 17 D1515 E - 17 D1516 E - 17 D1524 D - 19 D1526 C - 2 D1529 C - 21 D1530 E - 3 D1531 E - 16 D1532 C - 17 D1535 B - 18 D1546 C - 16 D1547 B - 14 D1548 B - 15 D1549 C - 21	
IC1508	E - 18		
IC1510	B - 20		
IC1511	E - 17		
IC1513	D - 17		
IC1515	C - 17		
IC1517	C - 16		
IC1518	D - 16		
IC1519	A - 2		
TRANSISTOR			
Q1501	A - 16		
Q1502	C - 18		
Q1503	B - 20		
Q1504	B - 21		
Q1505	B - 17		
Q1506	A - 17		
Q1507	B - 21		
Q1508	B - 5		
Q1509	B - 23		
Q1510	D - 22		
Q1513	D - 21		
Q1514	C - 18		
Q1515	B - 5		
Q1516	C - 6		
Q1522	E - 23		
Q1523	A - 7		
Q1524	B - 16		

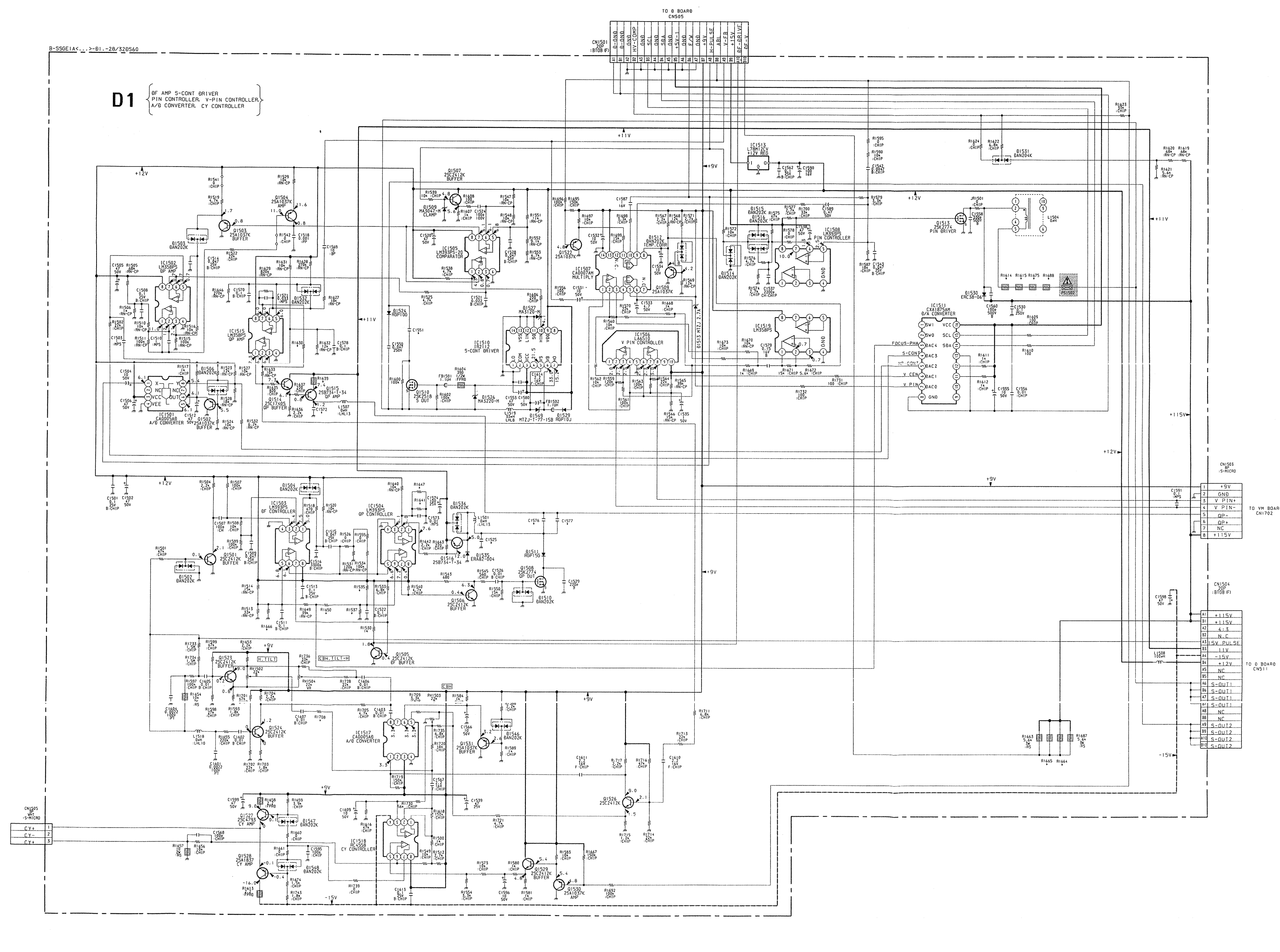
D1 DF AMP/S-CONT DRIVER
PIN CONTROLLER/AD CONVERTER
CV CONTROLLER

D1 Board <Component Side>



D1 Board <Conductor Side>

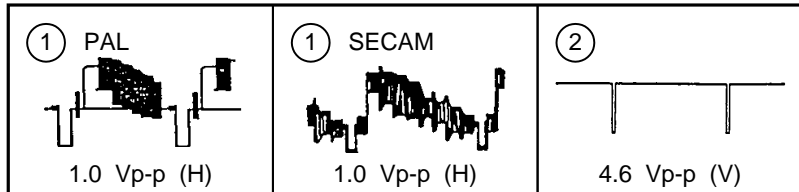




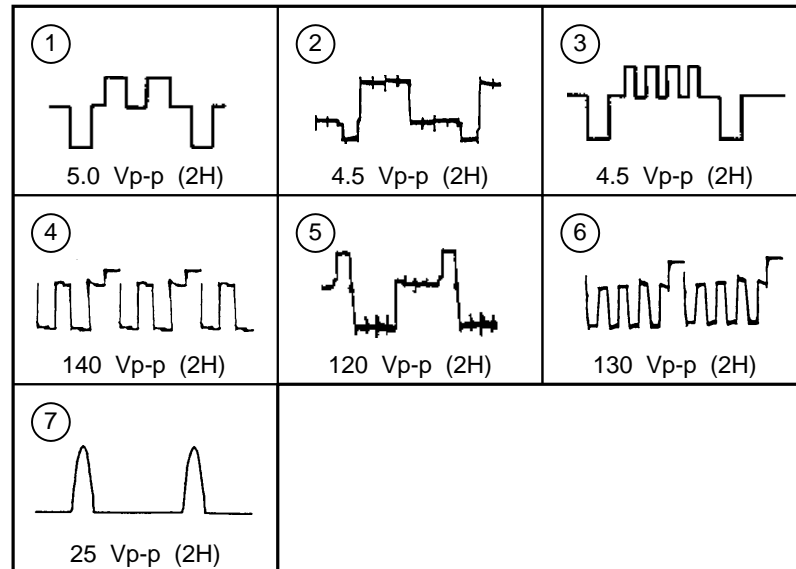
D1 BOARD * MARK

Ref	28DS60U	32DS60U
C1525	0.0015MF	0.0047MF
C1551	0.33MF	0.43MF
C1572	1MF	0.1MF
C1576	0.0022MF	0.0015MF
C1577	-	0.0047MF
R1535	15K	12K
R1537	22K	27K
R1614	2.7	0
R1615	2.7	0
R1630	8.2K	6.8K
R1639	100	82
R1641	12K	10K
R1647	-	220K
R1650	36K	39K
R1664	6.8K	5.6K
R1665	6.8K	5.6K
R1666	-	270K
R1675	2.7	0
R1688	2.7	0
R1708	150K	220K

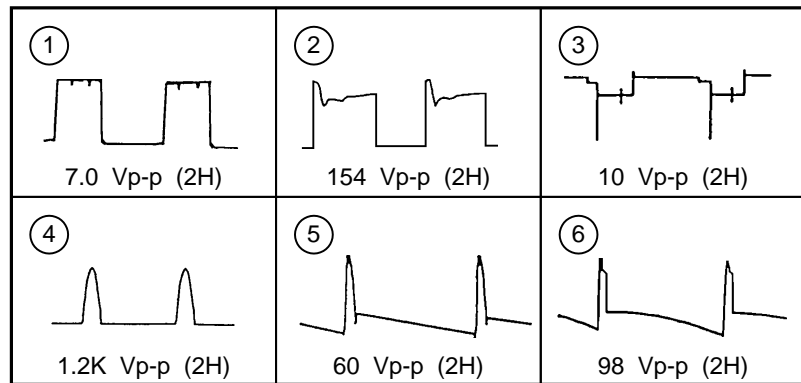
WAVEFORMS A BOARD (1/3)



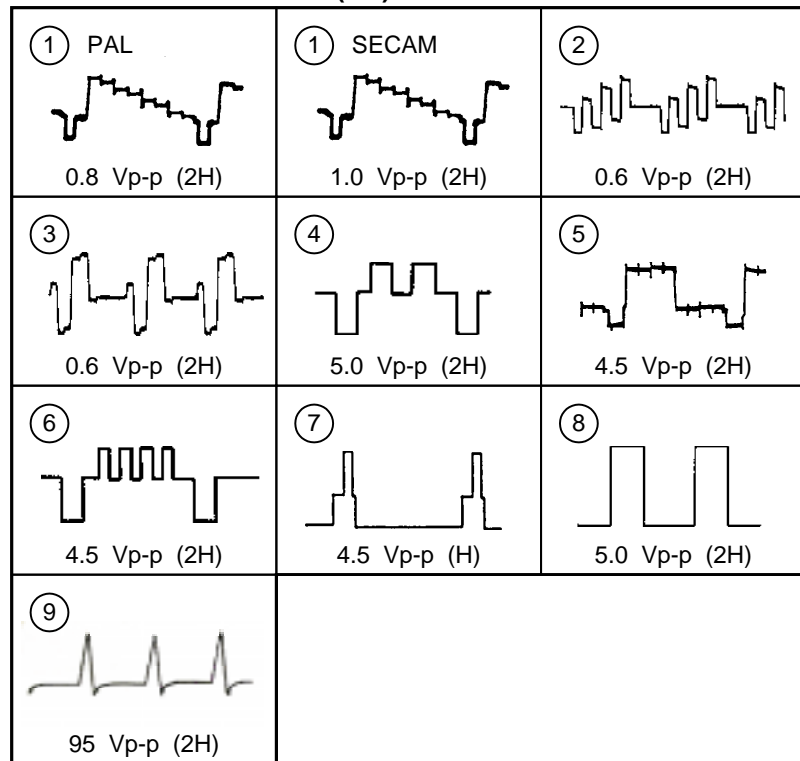
WAVEFORMS C BOARD



WAVEFORMS D BOARD

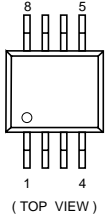


WAVEFORMS A BOARD (2/3)

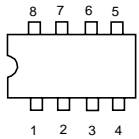


5-4 SEMICONDUCTORS

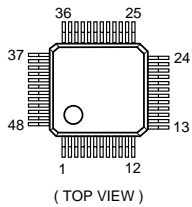
BA7046F
BA7046F-T1
MB3793-42NF
MB3793-42NF-ER
MC14066BFEL
NJM2240M
NJM2240M(TE2)
NJM3404AM-TE1



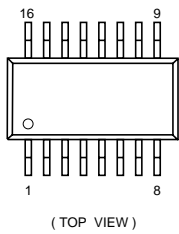
CAD005AD
LM358N
LM358PS
LM393P
M5216P
ST24C16FB6
TDA2822M
UPC393C



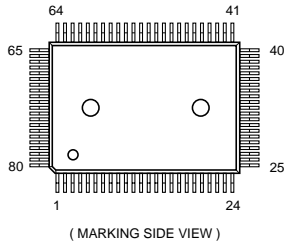
CXA1855Q-T6



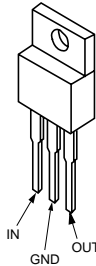
CXA1875AM-T4
HEF4053BT
MC14052BDR2
MC14053BF-T2
MC74F157ADR2
SN74LS221D
74HCT4046AD/S470



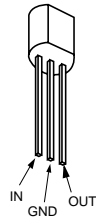
CXD2044Q-TL
SAA4990H/V2



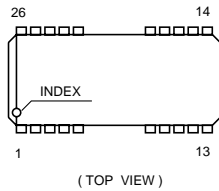
L7805CV
LM2940CT-9.0
LM2940T-8.0
LM2940T-9.0
L4941BV
TEA7605
MC7808CT



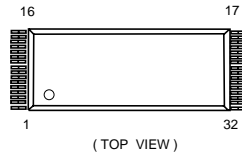
LM78L05ACZ
LM78L12ACZ
L78L05ACZ-AP
L78L12ACZ-AP
MC78L05AC PRP



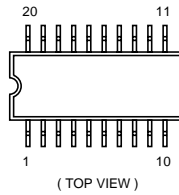
MB814400C-70P-JN-ER



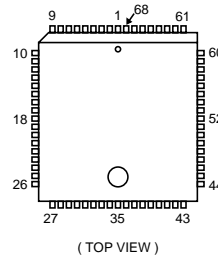
MBM29F04DA-90PFN



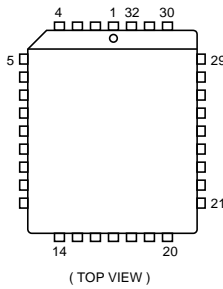
MC74F240DWR2
MC74F244MEL



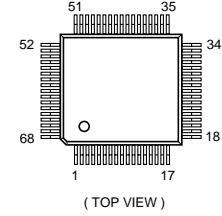
MSP3400C-PS-C6-T
MSP3410D-PS-B4-T
SAA7185WP
SDA30C164-2-GEG
SDA30C164-2GEG
SDA5273P-C26-GEG
SDA5275
SDA9280B22



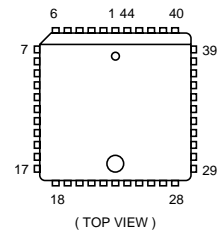
M27C4001-15C1
M27C4001-15C1-GE101



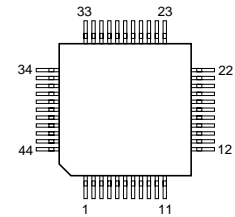
P83C654EBA/582
SDA9280A41



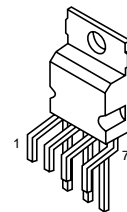
EPM7032LC44-15-AE001
SAA4952WP/V1
SAA7165WP



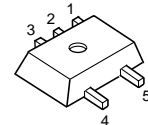
SDA9361



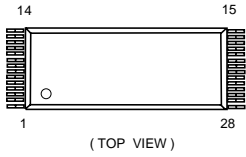
STV9379



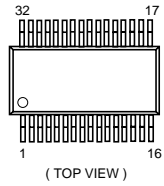
TC4S66F
TC4S66F-TE85L



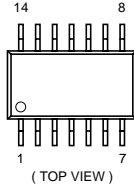
TC552557DFTL-70V-EL



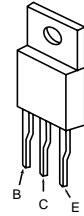
TDA8755T-T



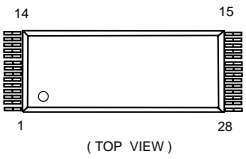
PST575DMT-T1
TLC2932IPW-20
U2860B-BFPG3
74LVC08D



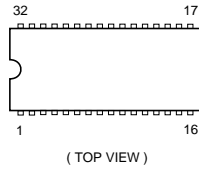
2SA1837



TDA4665T-T



TDA9143/N2
TDA9144/N1
TDA9170T

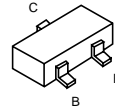
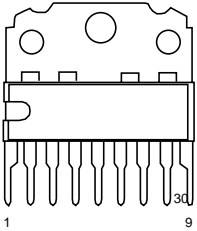


DTA114EK
DTA114EK-T146
DTA144EK
DTA144EK-T146
DTC114EK
DTC114EKA-T146
DTC124EKA-T146
DTC144EK
DTC144EK-T146
DTC144EKA-T146
2SA1037K-T-146-R
2SA1162-G
2SC2412K-QR
2SC2412K-T-146-R

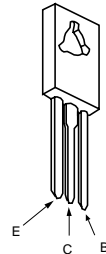
2SC2500-B
2SC2551-O
2SC2552O-TPE2



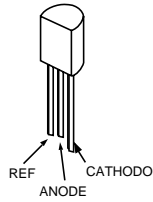
TDA6111Q
TDA6111Q/N4



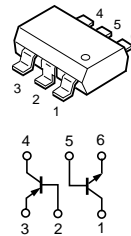
2SC2688-LK



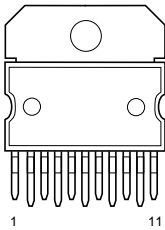
TL431CLP
TL431CLP-Z20
TL431CPS-T1
TL431CZ



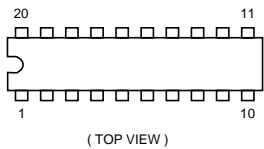
IMZ1A-T109



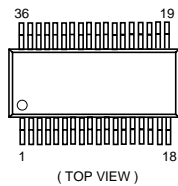
TDA7265



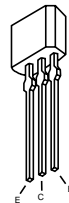
TDA7309



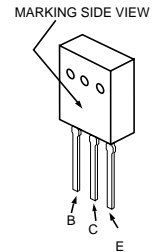
TMS4C2972-26DTR
TMS4C2972-28DTR



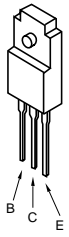
JA101TP-Q
JC501TP-Q
DTA144ESA
DTA144ESA-TP
DTC144ESA-TP
2SA1175-HFE
2SA733-K
2SA933AS-RT
2SA933AS-RT
2SA933S-RT
2SC1740S-RT
2SC2785-HFE



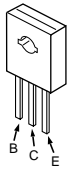
2SC3997CA



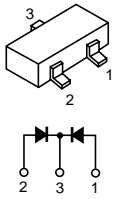
2SC4793



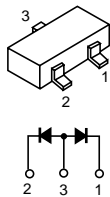
2SD2396H



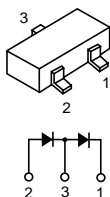
DAN202K
DAN202K-T-146



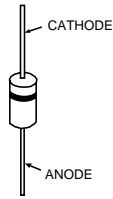
DAP202K
DAP202K-T-146



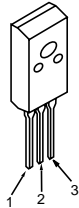
DA204K
DA204K-T-146



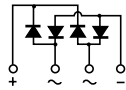
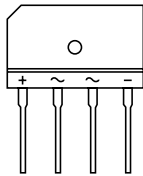
D1NL20	R2K-V1
D1NL20-TA	RGP02-20EG23
D1NL20-TR	RGP02-20EL-6394
EGP20G	RGP10GPKG23
EL1Z	RGP15GPKG23
GP08D	S2LA20F
GP08DPKG23	1SS133T-77
MTZJ-T-77-9.1	1SS83
MTZJ-T-77-9.1A	1SS83TD



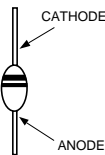
D10SC4M-F



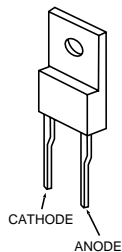
D4SB60L
D4SB60L-F
RBA-402L



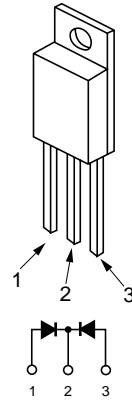
ERC38-06



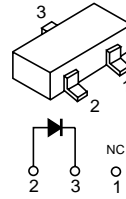
ERD08M-15



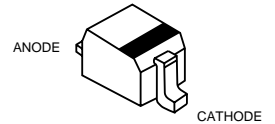
ESAD39M-06C
ESAD39M-06CF38



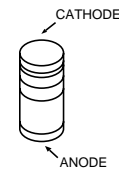
MA3033-L	02CZ5.1-TEBSL
MA3033L-TX	MA3062M-TX
MA3056M-TX	MA3030-H(TX)
MA3130WA-TX	RD5.6M-B2
02CZ5.6-TEBSL	



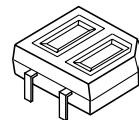
MA110-TX
RD22ESB2
UDZ-TE-17-12B
UDZ-TE-17-6.8B



MA3051L-TX

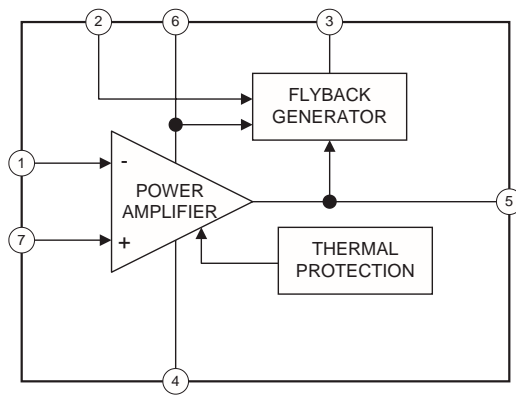


MA73-TX

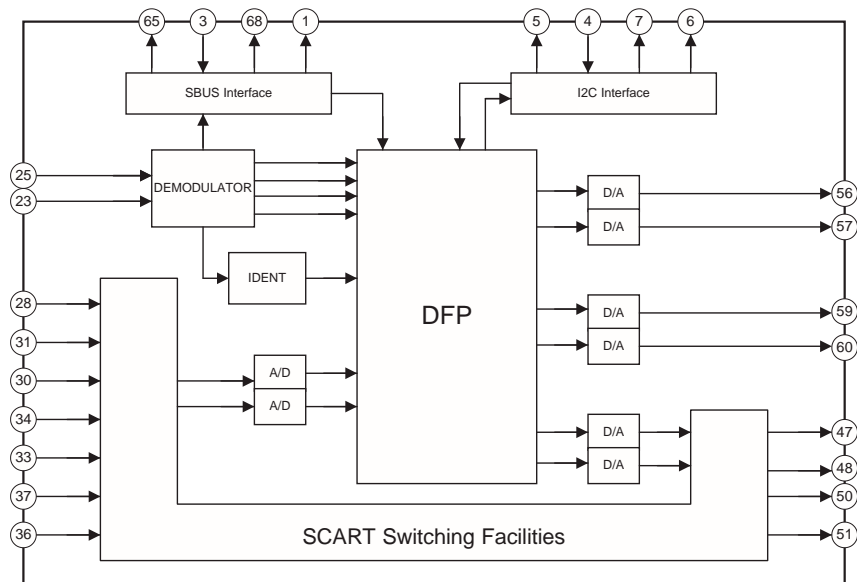


5-5. IC BLOCK DIAGRAMS

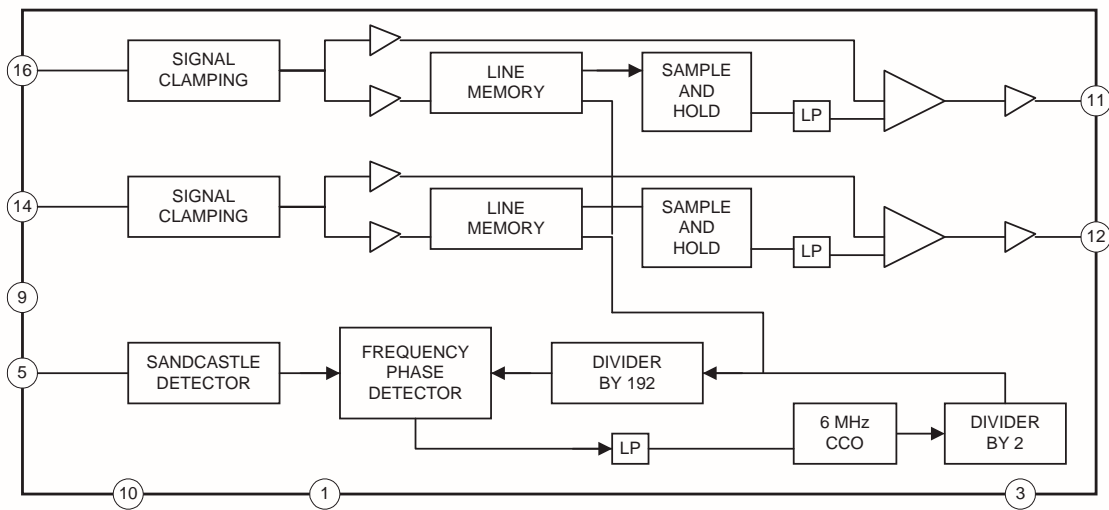
D BOARD IC502 STV9379



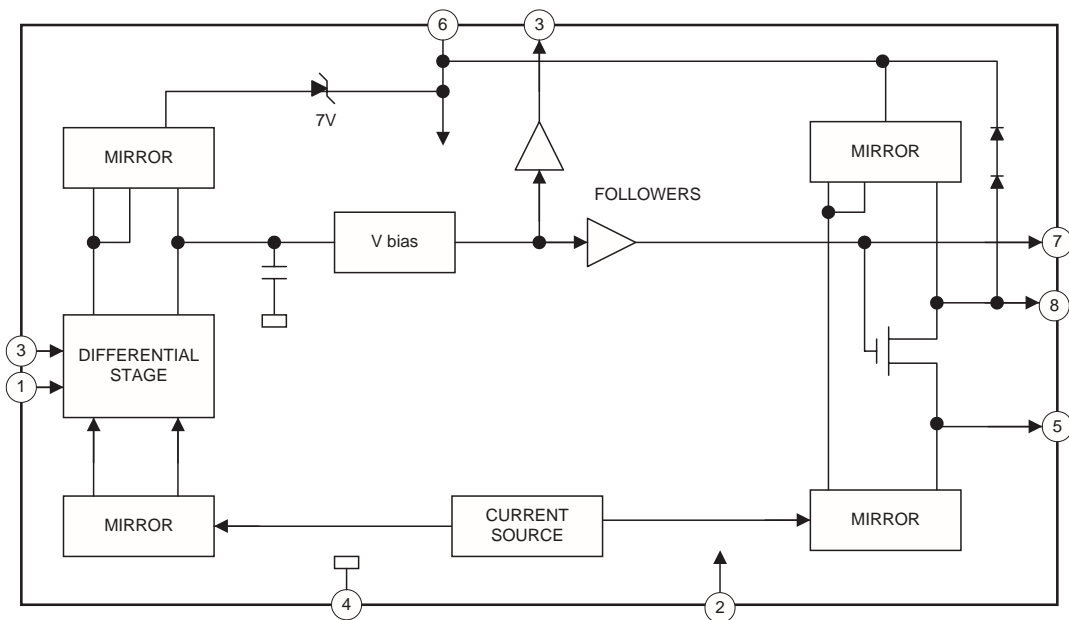
A BOARD IC201 MSP3410B-PS-B4-T



B BOARD IC3503,3602 TDA4665T-T



C BOARD IC701,702,703 TDA6111Q/N4



SECTION 6 EXPLODED VIEWS

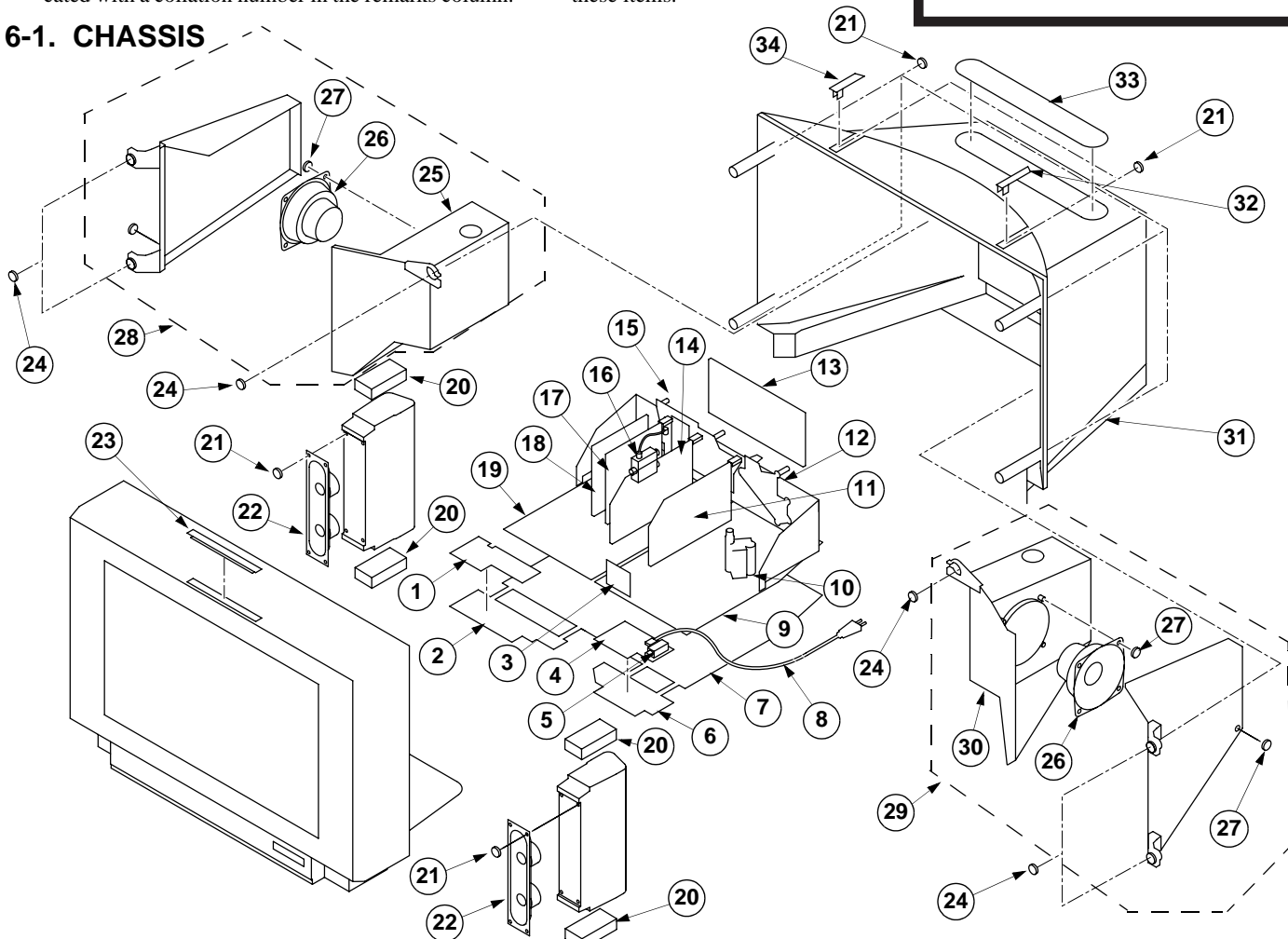
Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

NOTE :

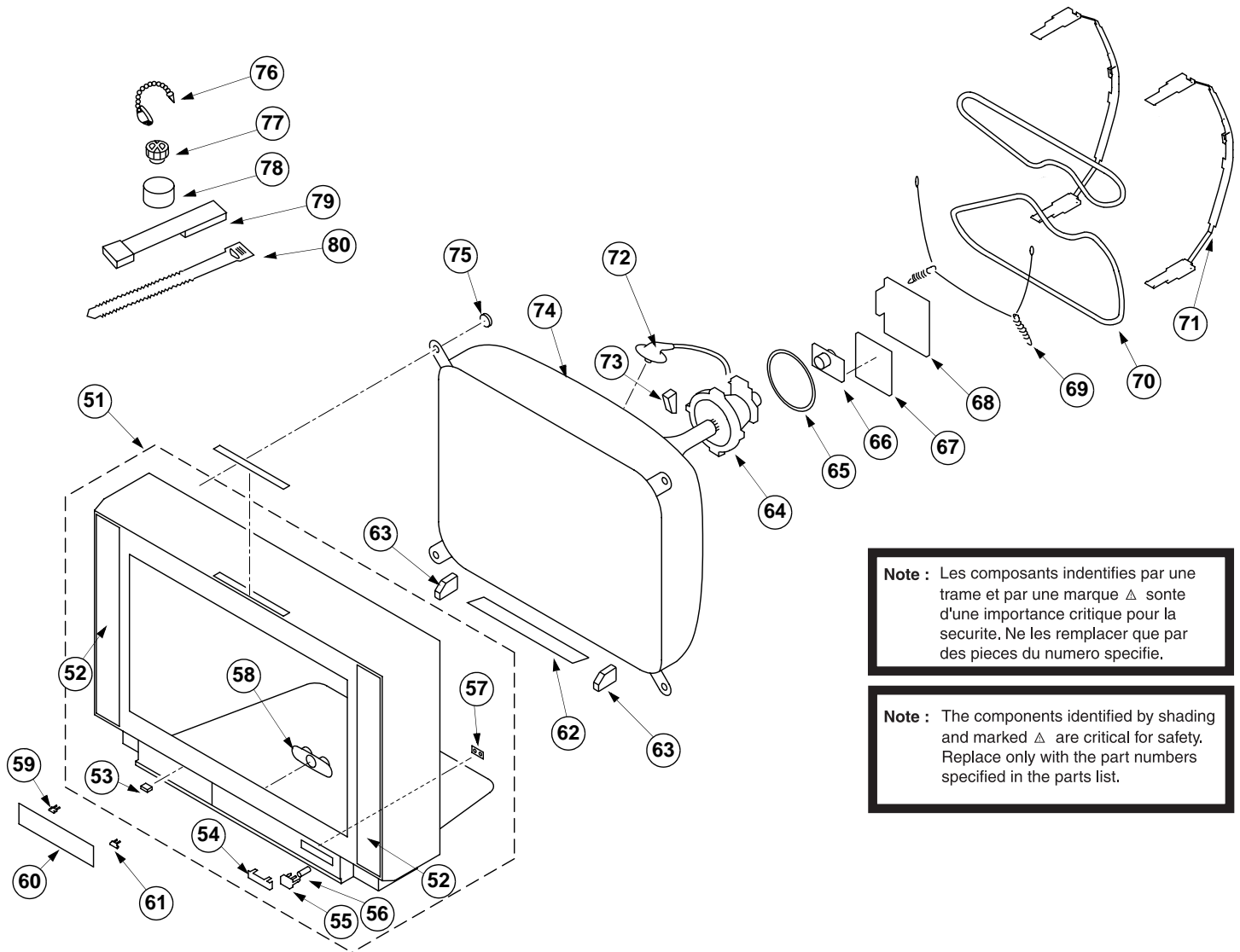
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked “*” are not stocked since they are seldom required for routine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

6-1. CHASSIS



REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
1	*A-1646-163-A	H BOARD, COMPLETE		18	*A-1632-771-A	A1 BOARD, COMPLETE	
2	*4-204-430-01	BRACKET, H (KV-28DS60)		19	*A-1632-770-A	A BOARD, COMPLETE	
	*4-204-430-11	BRACKET, H (KV-32DS60)		20	*4-202-988-01	CUSHION, BOX	
3	*A-1640-314-A	D2 BOARD, COMPLETE		21	4-039-358-01	SCREW (4X16), (+) BV TAPPING	
4	*A-1624-072-A	F1 BOARD, COMPLETE		22	1-529-153-11	SPEAKER (4.8X20CM)	
5	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)		23	1-771-599-11	SWITCH ARRAY	
6	*4-204-431-01	BRACKET, F (KV-28DS60)		24	4-384-096-01	SCREW (4X16), TAPPING	
	*4-204-431-11	BRACKET, F (KV-32DS60)		25	1-529-144-11	WOOFER (L) ASSY, SP FX	
7	*4-203-784-11	BRACKET, MAIN		26	1-529-144-11	SPEAKER (13CM)	
8	Δ 1-776-204-11	CORD, POWER (FILTER)		27	4-039-355-11	SCREW (4X12), (+) BV TAPPING	
9	*A-1642-236-A	D BOARD, COMPLETE (KV-28DS60)		28	*A-1678-150-A	WOOFER (L) ASSY	25,26,27
	*A-1642-237-A	D BOARD, COMPLETE (KV-32DS60)		29	*A-1678-188-A	WOOFER (R) ASSY	26,27,30
10	Δ X-4560-138-1	TRANSFORMER ASSY, FLYBACK NX-4602/J1B4		30	1-529-158-11	WOOFER (R) ASSY, SP FX	
11	*A-1642-326-A	D1 BOARD, COMPLETE (KV-28DS60)		31	4-204-459-01	COVER, REAR (KV-28DS60)	
	*A-1642-327-A	D1 BOARD, COMPLETE (KV-32DS60)			4-204-387-01	COVER, REAR (KV032DS60)	
12	*4-203-829-02	HOLDER (A), J		32	4-204-427-01	COVER, SCREW (L) (KV-28DS60)	
13	*A-1651-096-A	J BOARD, COMPLETE			4-204-369-01	COVER, SCREW (L) (KV-32DS60)	
14	*A-1620-110-A	B BOARD, COMPLETE		33	*4-204-458-01	COVER, PORT	
15	*4-204-432-01	BRACKET, J		34	4-204-428-01	COVER, SCREW (R) (KV-28DS60)	
16	1-693-339-21	TUNER/VIF (UK)			4-204-370-01	COVER, SCREW (R) (KV-32DS60)	
17	*A-1654-030-A	N BOARD, COMPLETE					

6-2. PICTURE TUBE



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
51	X-4200-417-1	BEZNET ASSY (KV-28DS60)	52-58	62	4-203-128-31	SHEET, BLOTING	
	X-0517-134-0	BEZNET ASSY (KV-32DS60)		63	*4-203-098-01	SUPPORTER, CRT (KV-32DS60)	
52	4-204-450-01	GRILLE, SPEAKER (KV-28DS60)		64	Δ 1-451-463-21	DEFLECTION YOKE Y28RCV (KV-28DS60)	
	4-204-368-01	GRILLE, SPEAKER (KV-32DS60)			Δ 1-451-462-21	DEFLECTION YOKE Y32RVC (KV-32DS60)	
53	4-042-192-01	CATCHER, PUSH		65	1-452-896-11	COIL, NA ROTATION (RT200)	
54	4-204-492-01	WINDOW, ORNAMENTAL		66	Δ 8-453-015-11	NECK ASSY, (NA2913-M)	
55	4-204-438-01	BUTTON, POWER		67	*A-1644-092-A	VM BOARD, COMPLETE	
56	4-202-964-11	SPRING		68	*A-1638-114-A	C BOARD, COMPLETE	
57	4-204-439-01	GUIDE, LIGHT		69	4-200-433-01	SPRING, EXTENSION (KV-28DS60)	
58	1-529-143-11	SPEAKER (4.2 X 20CM)			4-369-318-31	SPRING, TENSION (KV-32DS60)	
59	4-202-555-01	SHAFT, DOOR		70	Δ 1-416-466-11	COIL, DEMAGNETIC (KV-28FD60)	
60	4-204-435-51	DOOR			Δ 1-416-769-11	COIL, DEMAGNETIC (KV-32DS60)	
61	4-045-250-01	DAMPER					

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
71	*4-057-303-03	HOLDER, DGC (KV-28DS60)		76	4-308-870-00	CLIP, LEAD WIRE	
	*4-059-569-01	HOLDER, DGC (KV-32DS60)		77	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
72	△ 1-251-317-31	CAP ASSY, HIGH-VOLTAGE		78	4-425-032-00	MAGNET, DISK; 10MM	
73	3-704-495-01	SPACER, DY		79	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
74	△ 8-737-785-05	PICTURE TUBE (W66LLX101X) (KV-28DS60)		80	3-701-007-00	BAND, BINDING	
	△ 8-735-044-05	PICTURE TUBE (W76LLZ010X) (KV-32DS60)					
75	4-036-188-01	SCREW, SELF TAPPING (KV-28DS60)					
	4-204-225-01	PT-SCREW (KV-32DS60)					

SECTION 7 ELECTRICAL PARTS LIST

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 du numéro spécifié.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

- 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 , uH

B

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
	*A-1620-110-A	B BOARD, COMPLETE *****		C374	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
		<CAPACITOR>		C375	1-126-961-11	ELECT 2.2MF	20% 50V
C307	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C376	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C308	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C377	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C311	1-126-964-11	ELECT 10MF	20% 50V	C378	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C313	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C379	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C314	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C380	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C315	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C381	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C316	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C382	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C317	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C386	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C319	1-126-963-11	ELECT 4.7MF	20% 50V	C388	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C320	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C389	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C322	1-126-963-11	ELECT 4.7MF	20% 50V	C390	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C325	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C391	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C326	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V	C392	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C329	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C393	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C330	1-126-963-11	ELECT 4.7MF	20% 50V	C394	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C336	1-162-638-11	CERAMIC CHIP 1MF	16V	C395	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C337	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C396	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C338	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C398	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C339	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C399	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C343	1-163-231-11	CERAMIC CHIP 15PF	5% 50V	C300	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C349	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C301	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C350	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C302	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C352	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C303	1-126-964-11	ELECT 10MF	20% 50V
C355	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C304	1-126-964-11	ELECT 10MF	20% 50V
C356	1-126-960-11	ELECT 1MF	20% 50V	C305	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C358	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C306	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C360	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C307	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C364	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C308	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C365	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C309	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C368	1-126-964-11	ELECT 10MF	20% 50V	C311	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C370	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C312	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C371	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C313	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V
C372	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C315	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C373	1-126-964-11	ELECT 10MF	20% 50V	C316	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C317	1-126-933-11	ELECT 100MF	20% 16V
				C318	1-126-933-11	ELECT 100MF	20% 16V

B

REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
C319	1-126-933-11	ELECT 100MF	20% 16V	C3435	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C320	1-126-933-11	ELECT 100MF	20% 16V	C3450	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C321	1-126-933-11	ELECT 100MF	20% 16V	C3460	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C322	1-126-933-11	ELECT 100MF	20% 16V	C3461	1-126-966-11	ELECT 33MF	20% 16V
C323	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3502	1-126-963-11	ELECT 4.7MF	20% 50V
C324	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3503	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C325	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3504	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C326	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3505	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C327	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3506	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C328	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3507	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C329	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3508	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C330	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3509	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C331	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	C3510	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C332	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V	C3511	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C335	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	C3512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C337	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C341	1-126-964-11	ELECT 10MF	20% 50V	C3514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C342	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3515	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C343	1-126-964-11	ELECT 10MF	20% 50V	C3516	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C344	1-126-964-11	ELECT 10MF	20% 50V	C3517	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C345	1-126-964-11	ELECT 10MF	20% 50V	C3518	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C3401	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3519	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C3402	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3520	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V
C3404	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3521	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C3405	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V	C3522	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C3406	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C3523	1-126-963-11	ELECT 4.7MF	20% 50V
C3407	1-126-965-11	ELECT 22MF	20% 50V	C3546	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C3408	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3547	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C3410	1-104-665-11	ELECT 100MF	20% 10V	C3550	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C3411	1-126-963-11	ELECT 4.7MF	20% 50V	C3551	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C3412	1-126-963-11	ELECT 4.7MF	20% 50V	C3555	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C3413	1-164-506-11	CERAMIC CHIP 4.7MF	16V	C3556	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C3414	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C3652	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3415	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3655	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3416	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3668	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3418	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3671	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3420	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3672	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3421	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3673	1-126-964-11	ELECT 10MF	20% 50V
C3422	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3678	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3423	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3680	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C3424	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3681	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C3425	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3682	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3426	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3686	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3427	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3688	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3428	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3689	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3429	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3690	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3430	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3691	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3431	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3692	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3432	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3693	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3433	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3694	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3434	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3695	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C3703	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB361	1-500-245-11	FERRITE	Ouh
C3708	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB362	1-500-245-11	FERRITE	Ouh
C3726	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB363	1-216-295-91	SHORT	0
C3727	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB364	1-500-245-11	FERRITE	Ouh
C3728	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB365	1-216-295-91	SHORT	0
C3729	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB366	1-500-245-11	FERRITE	Ouh
C3732	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V	FB367	1-500-245-11	FERRITE	Ouh
C3735	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	FB368	1-216-295-91	SHORT	0
C3742	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB3601	1-414-234-22	INDUCTOR CHIP	Ouh
C3743	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB3602	1-414-234-22	INDUCTOR CHIP	Ouh
		<CONNECTOR>		FB3626	1-414-950-21	FERRITE	Ouh
CN301	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		FB3652	1-414-553-11	FERRITE	Ouh
CN302	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		FB3653	1-414-553-11	FERRITE	Ouh
		<DIODE>		FB3654	1-414-553-11	FERRITE	Ouh
D3501	8-719-401-41	DIODE MA3051L-TX		FB3660	1-500-245-11	FERRITE	Ouh
		<FERRITE BEAD>		FB3661	1-500-245-11	FERRITE	Ouh
FB304	1-414-234-22	INDUCTOR CHIP	Ouh	FB3662	1-500-245-11	FERRITE	Ouh
FB305	1-414-234-22	INDUCTOR CHIP	Ouh	FB3663	1-216-295-91	SHORT	0
FB307	1-414-234-22	INDUCTOR CHIP	Ouh	FB3664	1-500-245-11	FERRITE	Ouh
FB308	1-414-234-22	INDUCTOR CHIP	Ouh	FB3665	1-216-295-91	SHORT	0
FB309	1-414-234-22	INDUCTOR CHIP	Ouh	FB3666	1-500-245-11	FERRITE	Ouh
				FB3671	1-500-245-11	FERRITE	Ouh
				FB3672	1-500-245-11	FERRITE	Ouh
						<FILTER>	
FB312	1-414-553-11	FERRITE	Ouh	FL301	1-233-893-21	FILTER, CHIP EMI	
FB313	1-414-553-11	FERRITE	Ouh	FL302	1-233-893-21	FILTER, CHIP EMI	
FB314	1-414-553-11	FERRITE	Ouh	FL303	1-233-767-21	FILTER	
FB315	1-414-950-21	FERRITE	Ouh	FL305	1-415-940-21	DELAY LINE	
FB317	1-414-234-22	INDUCTOR CHIP	Ouh	FL306	1-233-893-21	FILTER, CHIP EMI	
FB318	1-414-234-22	INDUCTOR CHIP	Ouh	FL308	1-233-893-21	FILTER, CHIP EMI	
FB323	1-216-295-91	SHORT	0	FL3401	1-233-893-21	FILTER, CHIP EMI	
FB324	1-216-295-91	SHORT	0	FL3402	1-233-893-21	FILTER, CHIP EMI	
FB325	1-216-295-91	SHORT	0	FL3403	1-233-893-21	FILTER, CHIP EMI	
FB326	1-414-234-22	INDUCTOR CHIP	Ouh	FL3404	1-233-766-21	FILTER	
FB327	1-414-234-22	INDUCTOR CHIP	Ouh	FL3405	1-233-768-21	FILTER (SMD)	
FB328	1-414-234-22	INDUCTOR CHIP	Ouh	FL3406	1-233-893-21	FILTER, CHIP EMI	
FB329	1-414-234-22	INDUCTOR CHIP	Ouh	FL3410	1-233-765-21	FILTER	
FB330	1-414-234-22	INDUCTOR CHIP	Ouh	FL3502	1-233-893-21	FILTER, CHIP EMI	
FB331	1-414-234-22	INDUCTOR CHIP	Ouh			<IC>	
FB333	1-414-234-22	INDUCTOR CHIP	Ouh	IC302	8-759-991-41	IC LM78L05ACZ	
FB334	1-414-234-22	INDUCTOR CHIP	Ouh	IC304	8-759-257-59	IC TDA8755T-T	
FB335	1-414-234-22	INDUCTOR CHIP	Ouh	IC307	8-759-295-09	IC TLC2932IPW	
FB336	1-414-234-22	INDUCTOR CHIP	Ouh	IC309	8-759-438-64	IC SAA4952WP/V1	
FB352	1-414-553-11	FERRITE	Ouh	IC310	8-759-295-09	IC TLC2932IPW	
FB353	1-414-553-11	FERRITE	Ouh	IC311	8-759-439-25	IC TMS4C2972-26DTR	
FB354	1-414-553-11	FERRITE	Ouh	IC312	8-759-991-41	IC LM78L05ACZ	
FB356	1-216-295-91	SHORT	0	IC313	8-759-432-96	IC MC74F157ADR2	
FB357	1-414-234-22	INDUCTOR CHIP	Ouh	IC314	8-759-432-96	IC MC74F157ADR2	
FB358	1-414-553-11	FERRITE	Ouh	IC315	8-759-432-96	IC MC74F157ADR2	
FB359	1-414-553-11	FERRITE	Ouh				
FB360	1-500-245-11	FERRITE	Ouh				

B

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
IC316	8-759-432-96	IC MC74F157ADR2		L3623	1-412-029-11	INDUCTOR CHIP 10UH	
IC317	8-759-561-81	IC P83C654EBA/582					
IC318	8-759-234-77	IC TC4S66F				<TRANSISTOR>	
IC319	8-759-439-62	IC SAA4990H/V2		Q301	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC320	8-759-058-62	IC TC7S08FU (TE85R)		Q303	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC321	8-759-180-84	IC TC7W74F		Q304	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC322	8-759-991-41	IC LM78L05ACZ		Q305	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC323	8-759-439-25	IC TMS4C2972-26DTR		Q306	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC324	8-759-467-19	IC SDA9280B22		Q307	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC326	8-759-393-55	IC MC74F244MEL		Q311	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC327	8-759-393-55	IC MC74F244MEL		Q312	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC328	8-759-032-14	IC MC74HC08AF		Q313	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC3401	8-752-379-35	IC CXD2044Q-TL		Q3404	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC3402	8-759-711-62	IC NJM2240M		Q3405	8-729-216-22	TRANSISTOR 2SA1162-G	
IC3403	8-759-385-76	IC MC14052BDR2		Q3413	8-729-216-22	TRANSISTOR 2SA1162-G	
IC3502	8-759-447-67	IC TDA9144/N1		Q3515	8-729-038-96	TRANSISTOR IMZ1A-T109	
IC3503	8-759-565-20	IC TDA4665T/V5-118		Q3516	8-729-038-96	TRANSISTOR IMZ1A-T109	
IC3601	8-759-058-62	IC TC7S08FU (TE85R)		Q3517	8-729-038-96	TRANSISTOR IMZ1A-T109	
IC3607	8-759-295-09	IC TLC2932IPW		Q3608	8-729-216-22	TRANSISTOR 2SA1162-G	
IC3609	8-759-438-64	IC SAA4952WP/V1		Q3609	8-729-216-22	TRANSISTOR 2SA1162-G	
IC3611	8-759-439-25	IC TMS4C2972-26DTR				<RESISTOR>	
IC3615	8-759-432-96	IC MC74F157ADR2		JR3101	1-216-295-91	SHORT 0	
IC3617	8-759-561-81	IC P83C654EBA/582		JR3103	1-216-295-91	SHORT 0	
IC3619	8-759-439-62	IC SAA4990H/V2		JR3105	1-216-295-91	SHORT 0	
IC3620	8-759-058-62	IC TC7S08FU (TE85R)		JR3439	1-216-295-91	SHORT 0	
IC3621	8-759-058-54	IC TC7S00FU (TE85R)		JR3440	1-216-295-91	SHORT 0	
IC3623	8-759-439-25	IC TMS4C2972-26DTR		R309	1-216-055-00	RES,CHIP 1.8K 5% 1/10W	
		<COIL>		R310	1-216-053-00	RES,CHIP 1.5K 5% 1/10W	
L301	1-408-597-31	INDUCTOR 3.3UH		R311	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
L303	1-410-435-21	INDUCTOR 220UH		R313	1-216-051-00	RES,CHIP 1.2K 5% 1/10W	
L304	1-410-435-21	INDUCTOR 220UH		R314	1-216-059-00	RES,CHIP 2.7K 5% 1/10W	
L308	1-408-789-21	INDUCTOR CHIP 100UH		R315	1-216-067-00	RES,CHIP 5.6K 5% 1/10W	
L309	1-408-603-31	INDUCTOR 10UH		R319	1-216-089-91	RES,CHIP 47K 5% 1/10W	
L310	1-412-029-11	INDUCTOR CHIP 10UH		R320	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L311	1-412-029-11	INDUCTOR CHIP 10UH		R321	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L312	1-412-029-11	INDUCTOR CHIP 10UH		R323	1-216-089-91	RES,CHIP 47K 5% 1/10W	
L313	1-412-029-11	INDUCTOR CHIP 10UH		R324	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L314	1-412-029-11	INDUCTOR CHIP 10UH		R326	1-216-075-00	RES,CHIP 12K 5% 1/10W	
L315	1-412-029-11	INDUCTOR CHIP 10UH		R345	1-216-029-00	RES,CHIP 150 5% 1/10W	
L316	1-412-029-11	INDUCTOR CHIP 10UH		R348	1-216-295-91	SHORT 0	
L317	1-412-029-11	INDUCTOR CHIP 10UH		R350	1-216-063-91	RES,CHIP 3.9K 5% 1/10W	
L318	1-408-610-31	INDUCTOR 39UH		R352	1-216-061-00	RES,CHIP 3.3K 5% 1/10W	
L319	1-408-610-31	INDUCTOR 39UH		R353	1-216-047-91	RES,CHIP 820 5% 1/10W	
L320	1-412-029-11	INDUCTOR CHIP 10UH		R354	1-216-009-91	RES,CHIP 22 5% 1/10W	
L321	1-412-029-11	INDUCTOR CHIP 10UH		R359	1-216-063-91	RES,CHIP 3.9K 5% 1/10W	
L322	1-412-029-11	INDUCTOR CHIP 10UH		R362	1-216-089-91	RES,CHIP 47K 5% 1/10W	
L323	1-412-029-11	INDUCTOR CHIP 10UH		R363	1-216-025-91	RES,CHIP 100 5% 1/10W	
L3614	1-412-029-11	INDUCTOR CHIP 10UH		R365	1-216-001-00	RES,CHIP 10 5% 1/10W	
L3615	1-412-029-11	INDUCTOR CHIP 10UH		R366	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L3621	1-412-029-11	INDUCTOR CHIP 10UH		R367	1-216-295-91	SHORT 0	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R368	1-216-085-00	RES,CHIP	33K 5% 1/10W	R430	1-216-037-00	RES,CHIP	330 5% 1/10W
R370	1-216-085-00	RES,CHIP	33K 5% 1/10W	R431	1-216-037-00	RES,CHIP	330 5% 1/10W
R371	1-216-295-91	SHORT	0	R433	1-216-033-00	RES,CHIP	220 5% 1/10W
R373	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R434	1-216-033-00	RES,CHIP	220 5% 1/10W
R374	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R435	1-216-033-00	RES,CHIP	220 5% 1/10W
R375	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R436	1-216-033-00	RES,CHIP	220 5% 1/10W
R376	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R437	1-216-033-00	RES,CHIP	220 5% 1/10W
R377	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R438	1-216-033-00	RES,CHIP	220 5% 1/10W
R378	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R439	1-216-033-00	RES,CHIP	220 5% 1/10W
R379	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R440	1-216-033-00	RES,CHIP	220 5% 1/10W
R380	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R441	1-216-033-00	RES,CHIP	220 5% 1/10W
R381	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R442	1-216-033-00	RES,CHIP	220 5% 1/10W
R382	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R443	1-216-033-00	RES,CHIP	220 5% 1/10W
R383	1-216-076-00	RES,CHIP	13K 5% 1/10W	R444	1-216-033-00	RES,CHIP	220 5% 1/10W
R384	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R445	1-216-009-91	RES,CHIP	22 5% 1/10W
R385	1-216-017-91	RES,CHIP	47 5% 1/10W	R446	1-216-009-91	RES,CHIP	22 5% 1/10W
R386	1-216-073-00	RES,CHIP	10K 5% 1/10W	R448	1-216-023-00	RES,CHIP	82 5% 1/10W
R388	1-216-029-00	RES,CHIP	150 5% 1/10W	R449	1-216-025-91	RES,CHIP	100 5% 1/10W
R389	1-216-049-91	RES,CHIP	1K 5% 1/10W	R450	1-216-039-00	RES,CHIP	390 5% 1/10W
R390	1-216-017-91	RES,CHIP	47 5% 1/10W	R451	1-216-009-91	RES,CHIP	22 5% 1/10W
R391	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R455	1-216-025-91	RES,CHIP	100 5% 1/10W
R393	1-216-037-00	RES,CHIP	330 5% 1/10W	R456	1-216-025-91	RES,CHIP	100 5% 1/10W
R394	1-216-049-91	RES,CHIP	1K 5% 1/10W	R461	1-216-049-91	RES,CHIP	1K 5% 1/10W
R395	1-216-027-00	RES,CHIP	120 5% 1/10W	R462	1-216-049-91	RES,CHIP	1K 5% 1/10W
R396	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R465	1-216-049-91	RES,CHIP	1K 5% 1/10W
R397	1-216-295-91	SHORT	0	R466	1-216-049-91	RES,CHIP	1K 5% 1/10W
R398	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R467	1-216-049-91	RES,CHIP	1K 5% 1/10W
R399	1-216-039-00	RES,CHIP	390 5% 1/10W	R469	1-216-073-00	RES,CHIP	10K 5% 1/10W
R400	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R470	1-216-073-00	RES,CHIP	10K 5% 1/10W
R401	1-216-077-00	RES,CHIP	15K 5% 1/10W	R471	1-216-073-00	RES,CHIP	10K 5% 1/10W
R402	1-216-077-00	RES,CHIP	15K 5% 1/10W	R472	1-216-029-00	RES,CHIP	150 5% 1/10W
R403	1-216-049-91	RES,CHIP	1K 5% 1/10W	R473	1-216-295-91	SHORT	0
R406	1-216-295-91	SHORT	0	R474	1-216-295-91	SHORT	0
R408	1-216-025-91	RES,CHIP	100 5% 1/10W	R475	1-216-295-91	SHORT	0
R409	1-216-025-91	RES,CHIP	100 5% 1/10W	R476	1-216-295-91	SHORT	0
R410	1-216-295-91	SHORT	0	R480	1-216-295-91	SHORT	0
R411	1-216-025-91	RES,CHIP	100 5% 1/10W	R481	1-216-295-91	SHORT	0
R413	1-216-001-00	RES,CHIP	10 5% 1/10W	R482	1-216-295-91	SHORT	0
R414	1-216-001-00	RES,CHIP	10 5% 1/10W	R483	1-216-295-91	SHORT	0
R415	1-216-001-00	RES,CHIP	10 5% 1/10W	R484	1-216-295-91	SHORT	0
R416	1-216-001-00	RES,CHIP	10 5% 1/10W	R485	1-216-295-91	SHORT	0
R417	1-216-001-00	RES,CHIP	10 5% 1/10W	R486	1-216-295-91	SHORT	0
R418	1-216-001-00	RES,CHIP	10 5% 1/10W	R487	1-216-295-91	SHORT	0
R419	1-216-001-00	RES,CHIP	10 5% 1/10W	R488	1-216-295-91	SHORT	0
R420	1-216-001-00	RES,CHIP	10 5% 1/10W	R489	1-216-295-91	SHORT	0
R423	1-216-001-00	RES,CHIP	10 5% 1/10W	R3401	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R425	1-216-025-91	RES,CHIP	100 5% 1/10W	R3402	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R426	1-216-295-91	SHORT	0	R3403	1-216-037-00	RES,CHIP	330 5% 1/10W
R427	1-216-017-91	RES,CHIP	47 5% 1/10W	R3404	1-216-037-00	RES,CHIP	330 5% 1/10W
R428	1-216-029-00	RES,CHIP	150 5% 1/10W	R3405	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R429	1-216-295-91	SHORT	0	R3406	1-216-065-91	RES,CHIP	4.7K 5% 1/10W



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R3407	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R3551	1-216-037-00	RES,CHIP	330 5% 1/10W
R3408	1-216-017-91	RES,CHIP	47 5% 1/10W	R3552	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3409	1-216-017-91	RES,CHIP	47 5% 1/10W	R3571	1-218-179-11	RES,CHIP	10M 5% 1/10W
R3410	1-216-039-00	RES,CHIP	390 5% 1/10W	R3572	1-218-179-11	RES,CHIP	10M 5% 1/10W
R3411	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R3573	1-218-179-11	RES,CHIP	10M 5% 1/10W
R3419	1-216-043-91	RES,CHIP	560 5% 1/10W	R3650	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R3420	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R3662	1-216-089-91	RES,CHIP	47K 5% 1/10W
R3421	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3663	1-216-025-91	RES,CHIP	100 5% 1/10W
R3425	1-216-009-91	RES,CHIP	22 5% 1/10W	R3667	1-216-295-91	SHORT	0
R3430	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R3671	1-216-295-91	SHORT	0
R3431	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R3673	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3432	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R3674	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3433	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R3675	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3434	1-216-033-00	RES,CHIP	220 5% 1/10W	R3676	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3435	1-216-033-00	RES,CHIP	220 5% 1/10W	R3677	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3436	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W	R3678	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3437	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W	R3679	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3438	1-216-041-00	RES,CHIP	470 5% 1/10W	R3680	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3439	1-216-041-00	RES,CHIP	470 5% 1/10W	R3681	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3440	1-216-037-00	RES,CHIP	330 5% 1/10W	R3689	1-216-041-00	RES,CHIP	470 5% 1/10W
R3441	1-216-017-91	RES,CHIP	47 5% 1/10W	R3690	1-216-033-00	RES,CHIP	220 5% 1/10W
R3444	1-216-039-00	RES,CHIP	390 5% 1/10W	R3691	1-216-033-00	RES,CHIP	220 5% 1/10W
R3446	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R3692	1-216-033-00	RES,CHIP	220 5% 1/10W
R3447	1-216-089-91	RES,CHIP	47K 5% 1/10W	R3693	1-216-033-00	RES,CHIP	220 5% 1/10W
R3448	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3694	1-216-041-00	RES,CHIP	470 5% 1/10W
R3449	1-216-125-00	RES,CHIP	1.5M 5% 1/10W	R3698	1-216-295-91	SHORT	0
R3450	1-216-017-91	RES,CHIP	47 5% 1/10W	R3699	1-216-295-91	SHORT	0
R3451	1-216-047-91	RES,CHIP	820 5% 1/10W	R3725	1-216-025-91	RES,CHIP	100 5% 1/10W
R3452	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R3726	1-216-295-91	SHORT	0
R3453	1-216-047-91	RES,CHIP	820 5% 1/10W	R3729	1-216-295-91	SHORT	0
R3454	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R3748	1-216-023-00	RES,CHIP	82 5% 1/10W
R3462	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R3749	1-216-025-91	RES,CHIP	100 5% 1/10W
R3508	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3750	1-216-039-00	RES,CHIP	390 5% 1/10W
R3511	1-216-095-00	RES,CHIP	82K 5% 1/10W	R3776	1-216-295-91	SHORT	0
R3512	1-216-077-00	RES,CHIP	15K 5% 1/10W	R3789	1-216-295-91	SHORT	0
R3513	1-216-025-91	RES,CHIP	100 5% 1/10W	< RESISTOR CHIP NETWORK >			
R3514	1-216-033-00	RES,CHIP	220 5% 1/10W	RB313	1-239-711-91	NETWORK RESISTOR (CHIP)	0
R3517	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	RB314	1-239-711-91	NETWORK RESISTOR (CHIP)	0
R3530	1-216-041-00	RES,CHIP	470 5% 1/10W	RB315	1-239-711-91	NETWORK RESISTOR (CHIP)	0
R3531	1-216-041-00	RES,CHIP	470 5% 1/10W	RB3603	1-233-576-11	RES, CHIP NETWORK	100
R3532	1-216-041-00	RES,CHIP	470 5% 1/10W	< CRYSTAL >			
R3533	1-216-041-00	RES,CHIP	470 5% 1/10W	X301	1-579-175-11	VIBRATOR, CERAMIC	
R3534	1-216-041-00	RES,CHIP	470 5% 1/10W	X3501	1-567-505-11	OSCILLATOR, CRYSTAL	
R3535	1-216-041-00	RES,CHIP	470 5% 1/10W	X3502	1-567-504-11	OSCILLATOR, CRYSTAL	
R3536	1-216-041-00	RES,CHIP	470 5% 1/10W	X3601	1-579-175-11	VIBRATOR, CERAMIC	
R3537	1-216-041-00	RES,CHIP	470 5% 1/10W	*****			
R3538	1-216-041-00	RES,CHIP	470 5% 1/10W				
R3540	1-216-017-91	RES,CHIP	47 5% 1/10W				
R3541	1-216-025-91	RES,CHIP	100 5% 1/10W				
R3542	1-216-025-91	RES,CHIP	100 5% 1/10W				
R3545	1-216-025-91	RES,CHIP	100 5% 1/10W				

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

F1 **A**

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
	*A-1624-072-A	F1 BOARD, COMPLETE *****					
		<CAPACITOR>					
C952	1-126-964-11	ELECT 10MF	20% 50V	C107	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C953	Δ 1-136-527-12	FILM 0.47MF	20% 300V	C123	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
		<CONNECTOR>		C127	1-126-934-11	ELECT 220MF	20% 10V
CN951	*1-568-880-51	PIN, CONNECTOR 5P		C129	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
CN952	* Δ 1-580-843-11	PIN, CONNECTOR (POWER)		C138	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
CN953	* Δ 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		C140	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
		<DIODE>		C143	1-164-346-11	CERAMIC CHIP 1MF	16V
D951	4-203-258-11	HOLDER, LED		C152	1-164-346-11	CERAMIC CHIP 1MF	16V
D951	8-719-030-11	DIODE SLA-570KT3F		C153	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
		<FUSE>		C154	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
F951	Δ 1-532-299-11	FUSE 5A 250V		C155	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
		<IC>		C156	1-104-664-11	ELECT 47MF	20% 25V
IC951	8-749-014-59	IC TSOP1740KS1		C201	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
		<FILTER>		C203	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
LF951	Δ 1-431-402-11	TRANSFORMER, LINE FILTER		C204	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
LF952	Δ 1-431-402-11	TRANSFORMER, LINE FILTER		C205	1-104-664-11	ELECT 47MF	20% 25V
		<RESISTOR>		C209	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
R951	1-247-815-91	CARBON 220 5%	1/4W	C210	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
R952	1-249-401-11	CARBON 47 5%	1/4W	C212	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R953	Δ 1-214-937-00	CARBON 1M 5%	1/2W	C213	1-126-963-11	ELECT 4.7MF	20% 50V
R954	Δ 1-205-998-11	CEMENTED 1 5%	10W	C214	1-126-963-11	ELECT 4.7MF	20% 50V
R955	Δ 1-205-998-11	CEMENTED 1 5%	10W	C215	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R956	Δ 1-205-998-11	CEMENTED 1 5%	10W	C216	1-126-933-11	ELECT 100MF	20% 16V
R957	Δ 1-205-998-11	CEMENTED 1 5%	10W	C217	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
		<SWITCH>		C218	1-126-933-11	ELECT 100MF	20% 16V
S951	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)		C219	1-126-964-11	ELECT 10MF	20% 50V
		*****		C220	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	*A-1632-770-A	A BOARD, COMPLETE *****		C221	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
	1-750-797-11	SOCKET, PLCC		C222	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
	4-202-373-01	SPRING, IC		C223	1-126-964-11	ELECT 10MF	20% 50V
	4-382-854-11	SCREW (M3X10), P, SW (+)		C224	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
		<CAPACITOR>		C225	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C103	1-126-933-11	ELECT 100MF	20% 16V	C226	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C104	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C227	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C105	1-126-967-11	ELECT 47MF	20% 50V	C228	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C106	1-126-933-11	ELECT 100MF	20% 16V	C229	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
				C230	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
				C231	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
				C232	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C233	1-126-933-11	ELECT 100MF	20% 16V
				C235	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
				C236	1-104-661-91	ELECT 330MF	20% 16V
				C240	1-126-961-11	ELECT 2.2MF	20% 50V
				C241	1-126-961-11	ELECT 2.2MF	20% 50V
				C243	1-104-664-11	ELECT 47MF	20% 25V
				C246	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
				C247	1-104-664-11	ELECT 47MF	20% 25V
				C248	1-104-664-11	ELECT 47MF	20% 25V
				C249	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
				C252	1-136-165-00	FILM 0.1MF	5% 50V
				C253	1-126-953-11	ELECT 2200MF	20% 35V



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C254	1-136-165-00	FILM 0.1MF	5% 50V	C1142	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C255	1-136-165-00	FILM 0.1MF	5% 50V	C1144	1-126-964-11	ELECT 10MF	20% 50V
C256	1-136-165-00	FILM 0.1MF	5% 50V	C1145	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C257	1-126-953-11	ELECT 2200MF	20% 35V	C1146	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C258	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1147	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C259	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1148	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C260	1-126-963-11	ELECT 4.7MF	20% 50V	C1149	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C271	1-126-964-11	ELECT 10MF	20% 50V	C1150	1-104-661-91	ELECT 330MF	20% 16V
C274	1-104-664-11	ELECT 47MF	20% 25V	C1152	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C279	1-126-961-11	ELECT 2.2MF	20% 50V	C1153	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C280	1-126-961-11	ELECT 2.2MF	20% 50V	C1154	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C287	1-104-664-11	ELECT 47MF	20% 25V	C1155	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C289	1-104-664-11	ELECT 47MF	20% 25V	C1156	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C292	1-136-165-00	FILM 0.1MF	5% 50V	C1157	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C293	1-136-165-00	FILM 0.1MF	5% 50V	C1158	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C294	1-126-953-11	ELECT 2200MF	20% 35V	C1159	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C295	1-126-953-11	ELECT 2200MF	20% 35V	C1160	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C296	1-136-165-00	FILM 0.1MF	5% 50V	C1161	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C297	1-136-165-00	FILM 0.1MF	5% 50V	C1162	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1101	1-104-664-11	ELECT 47MF	20% 25V	C1163	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C1102	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1164	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1105	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1165	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C1106	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1166	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1168	1-104-664-11	ELECT 47MF	20% 25V
C1108	1-126-967-11	ELECT 47MF	20% 50V	C1169	1-107-909-11	ELECT 47MF	20% 50V
C1109	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1170	1-126-963-11	ELECT 4.7MF	20% 50V
C1110	1-126-964-11	ELECT 10MF	20% 50V	C1171	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1111	1-107-888-11	ELECT 47MF	20% 25V	C1175	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C1113	1-126-964-11	ELECT 10MF	20% 50V	C1176	1-126-967-11	ELECT 47MF	20% 50V
C1114	1-104-664-11	ELECT 47MF	20% 25V	C1177	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1117	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1178	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1118	1-126-964-11	ELECT 10MF	20% 50V	C1179	1-104-664-11	ELECT 47MF	20% 25V
C1120	1-128-526-11	ELECT 100MF	20% 16V	C1180	1-126-961-11	ELECT 2.2MF	20% 50V
C1121	1-128-526-11	ELECT 100MF	20% 16V	C1182	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1122	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1183	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1123	1-104-664-11	ELECT 47MF	20% 25V	C1184	1-126-964-11	ELECT 10MF	20% 50V
C1124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1189	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1125	1-104-664-11	ELECT 47MF	20% 25V	C1190	1-107-888-11	ELECT 47MF	20% 25V
C1126	1-107-888-11	ELECT 47MF	20% 25V	C1191	1-107-888-11	ELECT 47MF	20% 25V
C1127	1-107-888-11	ELECT 47MF	20% 25V	C1192	1-126-960-11	ELECT 1MF	20% 50V
C1128	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1193	1-107-905-11	ELECT 4.7MF	20% 50V
C1129	1-107-906-11	ELECT 10MF	20% 50V	C1194	1-107-888-11	ELECT 47MF	20% 25V
C1130	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1195	1-107-906-11	ELECT 10MF	20% 50V
C1131	1-107-682-11	CERAMIC CHIP 1MF	10% 16V	C1196	1-104-664-11	ELECT 47MF	20% 25V
C1132	1-104-664-11	ELECT 47MF	20% 25V	C1197	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1133	1-104-664-11	ELECT 47MF	20% 25V	C1198	1-126-964-11	ELECT 10MF	20% 50V
C1134	1-164-157-11	CERAMIC CHIP 0.068MF	10% 25V	C1199	1-126-964-11	ELECT 10MF	20% 50V
C1135	1-104-664-11	ELECT 47MF	20% 25V	C1207	1-110-489-11	CAPACITOR 1F	5.5V
C1137	1-126-960-11	ELECT 1MF	20% 50V	C1208	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C1138	1-126-964-11	ELECT 10MF	20% 50V	C1209	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1141	1-126-964-11	ELECT 10MF	20% 50V	C1211	1-136-165-00	FILM 0.1MF	5% 50V



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C1212	1-126-964-11	ELECT 10MF	20% 50V	C1403	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1213	1-126-933-11	ELECT 100MF	20% 16V	C1404	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1215	1-104-664-11	ELECT 47MF	20% 25V	C1405	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1217	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V	C1406	1-104-664-11	ELECT 47MF	20% 25V
C1218	1-163-234-11	CERAMIC CHIP 20PF	5% 50V	C1407	1-104-664-11	ELECT 47MF	20% 25V
C1219	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1411	1-104-665-11	ELECT 100MF	20% 25V
C1220	1-126-933-11	ELECT 100MF	20% 16V	C1412	1-104-665-11	ELECT 100MF	20% 25V
C1301	1-126-967-11	ELECT 47MF	20% 50V	C1414	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1302	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1415	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1303	1-216-295-91	SHORT 0		C1416	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1304	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1417	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1307	1-216-295-91	SHORT 0		C1418	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1320	1-126-960-11	ELECT 1MF	20% 50V	C1419	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1321	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1420	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1322	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1421	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1323	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1422	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1324	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1423	1-104-661-91	ELECT 330MF	20% 16V
C1325	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1424	1-126-964-11	ELECT 10MF	20% 50V
C1326	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1425	1-126-964-11	ELECT 10MF	20% 50V
C1327	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1426	1-126-964-11	ELECT 10MF	20% 50V
C1328	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1427	1-126-964-11	ELECT 10MF	20% 50V
C1329	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1431	1-104-665-11	ELECT 100MF	20% 25V
C1330	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1441	1-104-665-11	ELECT 100MF	20% 25V
C1331	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1449	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1332	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1803	1-126-967-11	ELECT 47MF	20% 50V
C1333	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1804	1-126-967-11	ELECT 47MF	20% 50V
C1334	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1805	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1335	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1806	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1336	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1807	1-126-964-11	ELECT 10MF	20% 50V
C1337	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1808	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1338	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1809	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1339	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1810	1-126-964-11	ELECT 10MF	20% 50V
C1340	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1811	1-107-909-11	ELECT 47MF	20% 50V
C1341	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1812	1-107-909-11	ELECT 47MF	20% 50V
C1342	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1813	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1343	1-104-665-11	ELECT 100MF	20% 25V	C1814	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1345	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1815	1-126-964-11	ELECT 10MF	20% 50V
C1348	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1816	1-126-964-11	ELECT 10MF	20% 50V
C1349	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1817	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1350	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1818	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1351	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1819	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1352	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1820	1-126-967-11	ELECT 47MF	20% 50V
C1353	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1821	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1354	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1822	1-107-905-11	ELECT 4.7MF	20% 50V
C1355	1-126-964-11	ELECT 10MF	20% 50V	C1823	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1356	1-126-964-11	ELECT 10MF	20% 50V	C1824	1-107-905-11	ELECT 4.7MF	20% 50V
C1357	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1825	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1359	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1826	1-107-906-11	ELECT 10MF	20% 50V
C1360	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1827	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1366	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1828	1-107-906-11	ELECT 10MF	20% 50V
C1367	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1829	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C1830	1-107-905-11	ELECT 4.7MF	20% 50V	C3301	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1831	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3303	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1832	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3304	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1833	1-107-905-11	ELECT 4.7MF	20% 50V			<FILTER>	
C1834	1-107-909-11	ELECT 47MF	20% 50V	CD1105	1-527-992-31	OSCILLATOR, CERAMIC	
C1835	1-126-967-11	ELECT 47MF	20% 50V			<CONNECTOR>	
C1836	1-107-928-11	ELECT 4.7MF	20% 100V	CN201 *	1-568-881-51	PIN, CONNECTOR 6P	
C1837	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	CN206 *	1-568-881-51	PIN, CONNECTOR 6P	
C1842	1-107-906-11	ELECT 10MF	20% 50V	CN1102*	1-564-520-11	PLUG, CONNECTOR 5P	
C1843	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1103*	1-564-520-11	PLUG, CONNECTOR 5P	
C1844	1-107-906-11	ELECT 10MF	20% 50V	CN1105*	1-568-880-51	PIN, CONNECTOR 5P	
C1845	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1106*	1-568-880-51	PIN, CONNECTOR 5P	
C1846	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	CN1108*	1-568-880-51	PIN, CONNECTOR 5P	
C1847	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1109*	1-568-881-51	PIN, CONNECTOR 6P	
C1848	1-126-964-11	ELECT 10MF	20% 50V	CN1110*	1-568-882-51	PIN, CONNECTOR 7P	
C2501	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V	CN1111*	1-568-878-51	PIN, CONNECTOR 3P	
C2502	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V	CN1301	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C2503	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	CN1305*	1-564-511-11	PLUG, CONNECTOR 8P	
C2504	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1803	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C2505	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1804	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C2506	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	CN1806	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
C2509	1-126-964-11	ELECT 10MF	20% 50V	CN1807	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
C2510	1-164-346-11	CERAMIC CHIP 1MF	16V	CN1808	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
C2511	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	CN1809*	1-564-509-11	PLUG, CONNECTOR 6P	
C2512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1810*	1-564-509-11	PLUG, CONNECTOR 6P	
C2513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN2501*	1-568-882-51	PIN, CONNECTOR 7P	
C2514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN2502*	1-564-511-11	PLUG, CONNECTOR 8P	
C2515	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN2504*	1-568-878-51	PIN, CONNECTOR 3P	
C2516	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V			<COMPOSITION CIRCUIT BLOCK>	
C2517	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	CP101	8-598-468-00	RF SPLITTER RFD-AU601	
C2518	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V			<DIODE>	
C2519	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D102	8-719-914-43	DIODE DAN202K	
C2520	1-126-964-11	ELECT 10MF	20% 50V	D201	8-719-991-33	DIODE 1SS133T-77	
C2521	1-126-964-11	ELECT 10MF	20% 50V	D203	8-719-914-43	DIODE DAN202K	
C2522	1-126-964-11	ELECT 10MF	20% 50V	D204	8-719-991-33	DIODE 1SS133T-77	
C2523	1-126-964-11	ELECT 10MF	20% 50V	D205	8-719-914-43	DIODE DAN202K	
C3201	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D206	8-719-914-42	DIODE DA204K	
C3202	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D207	8-719-991-33	DIODE 1SS133T-77	
C3203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D208	8-719-991-33	DIODE 1SS133T-77	
C3204	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D209	8-719-991-33	DIODE 1SS133T-77	
C3205	1-126-933-11	ELECT 100MF	20% 16V	D210	8-719-991-33	DIODE 1SS133T-77	
C3206	1-126-933-11	ELECT 100MF	20% 16V	D211	8-719-991-33	DIODE 1SS133T-77	
C3207	1-216-295-91	SHORT 0		D212	8-719-991-33	DIODE 1SS133T-77	
C3209	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D213	8-719-991-33	DIODE 1SS133T-77	
C3210	1-163-263-11	CERAMIC CHIP 330PF	5% 50V	D214	8-719-991-33	DIODE 1SS133T-77	
C3211	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	D1101	8-719-404-46	DIODE MA110	
C3212	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V				
C3213	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C3214	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C3216	1-126-933-11	ELECT 100MF	20% 16V				
C3233	1-107-682-11	CERAMIC CHIP 1MF	10% 16V				



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
D1102	8-719-404-46	DIODE MA110		FB203	1-410-396-41	FERRITE	0.45UH
D1103	8-719-404-46	DIODE MA110		FB204	1-410-396-41	FERRITE	0.45UH
D1104	8-719-404-46	DIODE MA110		FB206	1-414-553-11	FERRITE	0UH
D1105	8-719-404-46	DIODE MA110		FB207	1-414-553-11	FERRITE	0UH
D1106	8-719-404-46	DIODE MA110		FB208	1-500-245-11	FERRITE	0UH
D1107	8-719-404-46	DIODE MA110		FB209	1-414-553-11	FERRITE	0UH
D1108	8-719-404-46	DIODE MA110		FB210	1-414-553-11	FERRITE	0UH
D1109	8-719-056-83	DIODE UDZ-TE-17-6.8B		FB211	1-414-553-11	FERRITE	0UH
D1110	8-719-911-19	DIODE 1SS119-25		FB212	1-414-553-11	FERRITE	0UH
D1111	8-719-404-46	DIODE MA110		FB213	1-414-553-11	FERRITE	0UH
D1112	8-719-404-46	DIODE MA110		FB214	1-414-553-11	FERRITE	0UH
D1115	8-719-914-44	DIODE DAP202K		FB215	1-414-553-11	FERRITE	0UH
D1116	8-719-105-91	DIODE RD5.6M-B2		FB1801	1-414-234-22	INDUCTOR CHIP	0UH
D1117	8-719-914-43	DIODE DAN202K		FB1802	1-414-234-22	INDUCTOR CHIP	0UH
D1118	8-719-105-91	DIODE RD5.6M-B2		FB1803	1-414-234-22	INDUCTOR CHIP	0UH
D1119	8-719-914-43	DIODE DAN202K		FB1804	1-414-234-22	INDUCTOR CHIP	0UH
D1120	8-719-025-31	DIODE 02CZ5.6-TE85L		FB1805	1-414-234-22	INDUCTOR CHIP	0UH
D1121	8-719-025-31	DIODE 02CZ5.6-TE85L		FB1806	1-414-234-22	INDUCTOR CHIP	0UH
D1122	8-719-404-46	DIODE MA110		FB1807	1-414-234-22	INDUCTOR CHIP	0UH
D1123	8-719-404-46	DIODE MA110		FB1808	1-414-234-22	INDUCTOR CHIP	0UH
D1124	8-719-404-46	DIODE MA110		FB1809	1-216-295-91	SHORT	0
D1125	8-719-404-46	DIODE MA110		FB1810	1-216-017-91	RES,CHIP	47 5% 1/10W
D1126	8-719-404-46	DIODE MA110		FB1811	1-216-295-91	SHORT	0
D1127	8-719-404-46	DIODE MA110		FB1812	1-216-295-91	SHORT	0
D1128	8-719-404-46	DIODE MA110		FB1813	1-414-234-22	INDUCTOR CHIP	0UH
D1129	8-719-404-46	DIODE MA110		FB1814	1-414-234-22	INDUCTOR CHIP	0UH
D1134	8-719-914-42	DIODE DA204K		FB1815	1-414-234-22	INDUCTOR CHIP	0UH
D1135	8-719-914-42	DIODE DA204K		FB1816	1-414-234-22	INDUCTOR CHIP	0UH
D1136	8-719-914-42	DIODE DA204K		FB1817	1-414-234-22	INDUCTOR CHIP	0UH
D1137	8-719-914-42	DIODE DA204K		FB1818	1-414-234-22	INDUCTOR CHIP	0UH
D1138	8-719-914-42	DIODE DA204K		FB1819	1-414-234-22	INDUCTOR CHIP	0UH
D1139	8-719-914-43	DIODE DAN202K		FB1820	1-414-234-22	INDUCTOR CHIP	0UH
D1141	8-719-048-55	DIODE MTZJ-T-77-10C		FB1821	1-414-234-22	INDUCTOR CHIP	0UH
D1142	8-719-109-88	DIODE RD5.6ESB1		FB1822	1-414-234-22	INDUCTOR CHIP	0UH
D1143	8-719-976-99	DIODE DTZ5.1B		FB1823	1-414-234-22	INDUCTOR CHIP	0UH
D1310	8-719-025-29	DIODE 02CZ5.1-TE85L		FB1824	1-414-234-22	INDUCTOR CHIP	0UH
D1311	8-719-404-46	DIODE MA110		FB1825	1-414-234-22	INDUCTOR CHIP	0UH
D1312	8-719-923-60	DIODE MTZJ-T-77-9.1A		FB1826	1-414-234-22	INDUCTOR CHIP	0UH
D1801	8-719-404-46	DIODE MA110		FB1827	1-414-234-22	INDUCTOR CHIP	0UH
D1802	8-719-404-46	DIODE MA110		FB1828	1-414-234-22	INDUCTOR CHIP	0UH
D1803	8-719-404-46	DIODE MA110		FB1829	1-414-234-22	INDUCTOR CHIP	0UH
D1804	8-719-404-46	DIODE MA110		FB1830	1-414-234-11	INDUCTOR CHIP	0UH
D1805	8-719-404-46	DIODE MA110		FB1831	1-414-234-11	INDUCTOR CHIP	0UH
D1806	8-719-404-46	DIODE MA110		FB2501	1-414-553-11	FERRITE	0UH
D2501	8-719-914-43	DIODE DAN202K		FB2502	1-414-553-11	FERRITE	0UH
D2502	8-719-028-00	DIODE MA3033-L			<FILTER>		
D3201	8-719-914-44	DIODE DAP202K					
		<FERRITE BEAD>		FL101	1-236-071-11	ENCAPSULATED COMPONENT	
				FL102	1-236-071-11	ENCAPSULATED COMPONENT	
				FL103	1-236-071-11	ENCAPSULATED COMPONENT	
FB201	1-410-396-41	FERRITE	0.45UH	FL201	1-233-764-21	FILTER	
FB202	1-410-396-41	FERRITE	0.45UH	FL202	1-236-071-11	ENCAPSULATED COMPONENT	



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
FL203	1-236-071-11	ENCAPSULATED COMPONENT		IC1806	8-759-058-62	IC TC7S08FU (TE85R)	
FL204	1-236-071-11	ENCAPSULATED COMPONENT		IC1807	8-759-701-59	IC NJM78M09FA	
FL205	1-236-071-11	ENCAPSULATED COMPONENT		IC1808	8-759-908-15	IC TL431CLP	
FL206	1-236-071-11	ENCAPSULATED COMPONENT		IC1809	8-759-058-62	IC TC7S08FU (TE85R)	
FL207	1-236-071-11	ENCAPSULATED COMPONENT		IC1810	8-759-058-54	IC TC7S00FU (TE85R)	
FL1105	1-236-071-11	ENCAPSULATED COMPONENT		IC2501	8-759-421-42	IC SDA9361	
FL1106	1-236-071-11	ENCAPSULATED COMPONENT		IC2502	8-759-087-73	IC S-80745AN-D9-S	
FL1107	1-236-071-11	ENCAPSULATED COMPONENT		IC3201	8-759-342-60	IC PST575DMT-T1	
FL1108	1-236-071-11	ENCAPSULATED COMPONENT		IC3301	8-759-300-71	IC HD14053BFP	
	<IC>				<COIL>		
IC103	8-759-514-57	IC BA7046F		L107	1-408-615-31	INDUCTOR 100UH	
IC201	8-759-491-94	IC MSP3410D-PS-B4-T		L201	1-408-615-31	INDUCTOR 100UH	
IC202	8-759-190-89	IC TDA7265		L1101	1-408-615-31	INDUCTOR 100UH	
IC203	8-759-190-89	IC TDA7265		L1102	1-412-541-41	INDUCTOR 220UH	
IC204	8-759-342-60	IC PST575DMT-T1		L1103	1-408-611-31	INDUCTOR 47UH	
IC205	8-759-439-65	IC TC9337F-015		L1105	1-408-611-31	INDUCTOR 47UH	
IC1101	8-752-072-94	IC CXA1875AM-T4		L1106	1-408-611-31	INDUCTOR 47UH	
IC1105	8-759-507-29	IC LM7808CT		L1109	1-412-537-31	INDUCTOR 100UH	
IC1108	8-759-335-72	IC UPC24A05HF		L1301	1-408-615-31	INDUCTOR 100UH	
IC1109	8-759-335-72	IC UPC24A05HF		L1302	1-408-609-41	INDUCTOR 33UH	
IC1111	8-759-259-18	IC MB3793-42PNF		L1303	1-408-609-41	INDUCTOR 33UH	
IC1112	8-759-483-52	IC HYB514400BJ-60		L1304	1-408-603-31	INDUCTOR 10UH	
IC1113	8-759-438-62	IC SDA5275		L1305	1-412-545-11	INDUCTOR 470UH	
IC1114	8-759-008-67	IC MC14066BF		L1306	1-408-603-31	INDUCTOR 10UH	
IC1116	8-759-442-44	IC SDA30C164-2-GEG		L1307	1-408-412-00	INDUCTOR 18UH	
IC1121	8-759-390-51	IC UPC2409AHF		L1308	1-408-603-31	INDUCTOR 10UH	
IC1123	1-526-652-21	SOCKET, IC (DP) 8P		L1310	1-408-615-31	INDUCTOR 100UH	
IC1123	8-759-560-25	IC M24C64-WBN6		L1801	1-406-664-21	INDUCTOR 68UH	
IC1126	8-759-990-63	IC PCF8574AT					
IC1127	8-759-058-62	IC TC7S08FU (TE85R)					
					<TRANSISTOR>		
IC1132	8-759-990-63	IC PCF8574AT		Q108	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1133	8-759-822-38	IC LA6510		Q109	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1134	8-759-008-70	IC LM358N		Q110	8-729-035-81	TRANSISTOR 2SB1436-QR	
IC1135	8-759-325-48	IC CA0005AD		Q111	8-729-901-00	TRANSISTOR DTC124EK	
IC1136	8-759-058-62	IC TC7S08FU (TE85R)		Q114	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1137	8-759-058-54	IC TC7S00FU (TE85R)		Q202	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1141	8-759-478-44	IC PCF8593/T118		Q203	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1301	8-759-300-71	IC HD14053BFP		Q205	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1302	8-759-058-62	IC TC7S08FU (TE85R)		Q206	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1318	8-752-082-92	IC CXA2101Q-TL		Q209	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1320	8-752-058-68	IC CXA1315M		Q210	8-729-027-31	TRANSISTOR DTA124EKA-T146	
IC1325	8-759-031-84	IC SC7S04F		Q211	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1326	8-759-031-84	IC SC7S04F		Q212	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1329	8-759-058-62	IC TC7S08FU (TE85R)		Q213	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1330	8-759-058-62	IC TC7S08FU (TE85R)		Q215	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1801	8-759-058-54	IC TC7S00FU (TE85R)		Q1108	8-729-035-81	TRANSISTOR 2SB1436-QR	
IC1802	8-759-058-54	IC TC7S00FU (TE85R)		Q1110	8-729-901-00	TRANSISTOR DTC124EK	
IC1803	8-759-058-54	IC TC7S00FU (TE85R)		Q1111	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1804	8-759-300-71	IC HD14053BFP		Q1112	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1805	8-759-058-62	IC TC7S08FU (TE85R)		Q1113	8-729-216-22	TRANSISTOR 2SA1162-G	



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
Q1116	8-729-620-06	TRANSISTOR 2SC3052-EF		Q3301	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1117	8-729-620-06	TRANSISTOR 2SC3052-EF				<RESISTOR>	
Q1120	1-801-806-11	TRANSISTOR DTC144EKA-T146					
Q1121	1-801-806-11	TRANSISTOR DTC144EKA-T146					
Q1122	8-729-216-22	TRANSISTOR 2SA1162-G		JR1	1-216-295-91	SHORT	0
				JR2	1-216-295-91	SHORT	0
Q1123	8-729-216-22	TRANSISTOR 2SA1162-G		JR3	1-216-295-91	SHORT	0
Q1124	8-729-216-22	TRANSISTOR 2SA1162-G		JR4	1-216-295-91	SHORT	0
Q1125	8-729-216-22	TRANSISTOR 2SA1162-G		JR17	1-216-295-91	SHORT	0
Q1126	8-729-620-06	TRANSISTOR 2SC3052-EF					
Q1127	8-729-028-28	TRANSISTOR 2SK2036 (TE85L)		JR18	1-216-295-91	SHORT	0
				JR19	1-216-295-91	SHORT	0
Q1128	8-729-028-28	TRANSISTOR 2SK2036 (TE85L)		JR21	1-216-295-91	SHORT	0
Q1129	8-729-028-28	TRANSISTOR 2SK2036 (TE85L)		JR31	1-216-295-91	SHORT	0
Q1130	8-729-028-28	TRANSISTOR 2SK2036 (TE85L)		JR32	1-216-295-91	SHORT	0
Q1133	8-729-140-97	TRANSISTOR 2SB734-34					
Q1134	8-729-620-06	TRANSISTOR 2SC3052-EF		JR34	1-216-295-91	SHORT	0
				JR35	1-216-295-91	SHORT	0
Q1301	1-801-806-11	TRANSISTOR DTC144EKA-T146		JR36	1-216-295-91	SHORT	0
Q1302	8-729-216-22	TRANSISTOR 2SA1162-G		JR37	1-216-295-91	SHORT	0
Q1303	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR38	1-216-295-91	SHORT	0
Q1312	8-729-620-06	TRANSISTOR 2SC3052-EF					
Q1313	8-729-422-37	TRANSISTOR 2SB709A-R		JR39	1-216-295-91	SHORT	0
				JR40	1-216-295-91	SHORT	0
Q1316	8-729-620-06	TRANSISTOR 2SC3052-EF		JR41	1-216-295-91	SHORT	0
Q1317	8-729-620-06	TRANSISTOR 2SC3052-EF		JR42	1-216-295-91	SHORT	0
Q1318	8-729-216-22	TRANSISTOR 2SA1162-G		JR43	1-216-295-91	SHORT	0
Q1329	8-729-216-22	TRANSISTOR 2SA1162-G					
Q1330	8-729-216-22	TRANSISTOR 2SA1162-G		JR201	1-216-295-91	SHORT	0
				JR202	1-216-295-91	SHORT	0
Q1331	8-729-216-22	TRANSISTOR 2SA1162-G		JR203	1-216-295-91	SHORT	0
Q1332	8-729-620-06	TRANSISTOR 2SC3052-EF		JR206	1-216-295-91	SHORT	0
Q1801	8-729-034-57	TRANSISTOR IRFIZ44G		JR1108	1-216-295-91	SHORT	0
Q1802	8-729-140-04	TRANSISTOR 2SB1116A-L					
Q1803	8-729-901-00	TRANSISTOR DTC124EK		JR1109	1-216-295-91	SHORT	0
				JR1110	1-216-295-91	SHORT	0
Q1804	8-729-900-53	TRANSISTOR DTC114EK		JR3201	1-216-295-91	SHORT	0
Q1805	8-729-034-57	TRANSISTOR IRFIZ44G		JR3203	1-216-295-91	SHORT	0
Q1806	8-729-035-81	TRANSISTOR 2SB1436-QR		JR3204	1-216-295-91	SHORT	0
Q1807	8-729-035-81	TRANSISTOR 2SB1436-QR					
Q1808	8-729-021-82	TRANSISTOR 2SD2396K		R125	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R126	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
Q1809	8-729-901-00	TRANSISTOR DTC124EK		R133	1-216-025-91	RES,CHIP	100 5% 1/10W
Q1810	8-729-901-00	TRANSISTOR DTC124EK		R136	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q1811	8-729-035-81	TRANSISTOR 2SB1436-QR		R138	1-216-037-00	RES,CHIP	330 5% 1/10W
Q1812	8-729-901-00	TRANSISTOR DTC124EK					
Q1813	8-729-028-28	TRANSISTOR 2SK2036 (TE85L)		R140	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R141	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
Q1814	8-729-028-28	TRANSISTOR 2SK2036 (TE85L)		R142	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q1815	8-729-035-81	TRANSISTOR 2SB1436-QR		R146	1-216-107-00	RES,CHIP	270K 5% 1/10W
Q1816	8-729-901-00	TRANSISTOR DTC124EK		R147	1-216-113-00	RES,CHIP	470K 5% 1/10W
Q1817	8-729-216-22	TRANSISTOR 2SA1162-G					
Q1818	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R150	1-216-113-00	RES,CHIP	470K 5% 1/10W
				R151	1-218-755-11	METAL CHIP	130K 0.50% 1/10W
Q1819	8-729-216-22	TRANSISTOR 2SA1162-G		R152	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q1820	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R153	1-216-113-00	RES,CHIP	470K 5% 1/10W
Q1821	8-729-216-22	TRANSISTOR 2SA1162-G		R154	1-216-295-91	SHORT	0
Q1822	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q1823	8-729-216-22	TRANSISTOR 2SA1162-G		R155	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
				R157	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q1824	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R158	1-216-049-91	RES,CHIP	1K 5% 1/10W



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R202	1-216-025-91	RES,CHIP	100 5% 1/10W	R270	1-216-295-91	SHORT	0
R204	1-216-295-91	SHORT	0	R271	1-216-295-91	SHORT	0
R206	1-216-049-91	RES,CHIP	1K 5% 1/10W	R272	1-216-049-91	RES,CHIP	1K 5% 1/10W
R208	1-216-045-00	RES,CHIP	680 5% 1/10W	R273	1-216-049-91	RES,CHIP	1K 5% 1/10W
R209	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R274	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R210	1-216-081-00	RES,CHIP	22K 5% 1/10W	R275	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R211	1-216-081-00	RES,CHIP	22K 5% 1/10W	R276	1-216-081-00	RES,CHIP	22K 5% 1/10W
R212	1-216-049-91	RES,CHIP	1K 5% 1/10W	R277	1-216-049-91	RES,CHIP	1K 5% 1/10W
R218	1-216-295-91	SHORT	0	R279	1-216-049-91	RES,CHIP	1K 5% 1/10W
R219	1-216-295-91	SHORT	0	R284	1-216-049-91	RES,CHIP	1K 5% 1/10W
R220	1-216-025-91	RES,CHIP	100 5% 1/10W	R286	1-216-041-00	RES,CHIP	470 5% 1/10W
R221	1-216-295-91	SHORT	0	R288	1-216-041-00	RES,CHIP	470 5% 1/10W
R222	1-216-295-91	SHORT	0	R289	1-216-075-00	RES,CHIP	12K 5% 1/10W
R223	1-216-025-91	RES,CHIP	100 5% 1/10W	R291	1-216-075-00	RES,CHIP	12K 5% 1/10W
R224	1-216-025-91	RES,CHIP	100 5% 1/10W	R292	1-216-049-91	RES,CHIP	1K 5% 1/10W
R225	1-216-049-91	RES,CHIP	1K 5% 1/10W	R293	1-216-073-00	RES,CHIP	10K 5% 1/10W
R226	1-216-033-00	RES,CHIP	220 5% 1/10W	R294	1-216-073-00	RES,CHIP	10K 5% 1/10W
R227	1-216-033-00	RES,CHIP	220 5% 1/10W	R295	1-216-041-00	RES,CHIP	470 5% 1/10W
R228	1-216-033-00	RES,CHIP	220 5% 1/10W	R1101	1-216-025-91	RES,CHIP	100 5% 1/10W
R229	1-216-025-91	RES,CHIP	100 5% 1/10W	R1102	1-216-025-91	RES,CHIP	100 5% 1/10W
R230	1-216-025-91	RES,CHIP	100 5% 1/10W	R1103	1-216-025-91	RES,CHIP	100 5% 1/10W
R231	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1104	1-216-025-91	RES,CHIP	100 5% 1/10W
R232	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1105	1-216-033-00	RES,CHIP	220 5% 1/10W
R233	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R1106	1-216-033-00	RES,CHIP	220 5% 1/10W
R235	1-216-295-91	SHORT	0	R1107	1-216-025-91	RES,CHIP	100 5% 1/10W
R236	1-216-121-91	RES,CHIP	1M 5% 1/10W	R1110	1-216-049-91	RES,CHIP	1K 5% 1/10W
R238	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1111	1-216-033-00	RES,CHIP	220 5% 1/10W
R239	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1113	1-216-049-91	RES,CHIP	1K 5% 1/10W
R240	1-216-295-91	SHORT	0	R1115	1-216-083-00	RES,CHIP	27K 5% 1/10W
R241	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1116	1-216-295-91	SHORT	0
R245	1-216-039-00	RES,CHIP	390 5% 1/10W	R1118	1-216-295-91	SHORT	0
R246	1-216-097-91	RES,CHIP	100K 5% 1/10W	R1119	1-216-081-00	RES,CHIP	22K 5% 1/10W
R248	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1120	1-216-073-00	RES,CHIP	10K 5% 1/10W
R250	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1121	1-216-073-00	RES,CHIP	10K 5% 1/10W
R251	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1124	1-216-025-91	RES,CHIP	100 5% 1/10W
R252	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1125	1-216-025-91	RES,CHIP	100 5% 1/10W
R255	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R1126	1-216-025-91	RES,CHIP	100 5% 1/10W
R256	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1128	1-216-089-91	RES,CHIP	47K 5% 1/10W
R257	1-216-041-00	RES,CHIP	470 5% 1/10W	R1129	1-216-073-00	RES,CHIP	10K 5% 1/10W
R258	1-216-041-00	RES,CHIP	470 5% 1/10W	R1130	1-216-073-00	RES,CHIP	10K 5% 1/10W
R259	1-216-075-00	RES,CHIP	12K 5% 1/10W	R1133	1-216-049-91	RES,CHIP	1K 5% 1/10W
R260	1-216-075-00	RES,CHIP	12K 5% 1/10W	R1136	1-216-121-91	RES,CHIP	1M 5% 1/10W
R261	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1137	1-216-049-91	RES,CHIP	1K 5% 1/10W
R262	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1139	1-216-073-00	RES,CHIP	10K 5% 1/10W
R263	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1140	1-216-073-00	RES,CHIP	10K 5% 1/10W
R264	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R1143	1-216-025-91	RES,CHIP	100 5% 1/10W
R265	1-216-089-91	RES,CHIP	47K 5% 1/10W	R1144	1-216-049-91	RES,CHIP	1K 5% 1/10W
R266	1-216-236-11	RES,CHIP	39K 5% 1/8W	R1145	1-216-025-91	RES,CHIP	100 5% 1/10W
R267	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R1146	1-216-025-91	RES,CHIP	100 5% 1/10W
R268	1-216-077-00	RES,CHIP	15K 5% 1/10W	R1147	1-216-041-00	RES,CHIP	470 5% 1/10W
R269	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1148	1-216-049-91	RES,CHIP	1K 5% 1/10W



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R1149	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1215	1-216-025-91	RES,CHIP	100 5% 1/10W
R1150	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1216	1-216-025-91	RES,CHIP	100 5% 1/10W
R1151	1-216-025-91	RES,CHIP	100 5% 1/10W	R1220	1-216-025-91	RES,CHIP	100 5% 1/10W
R1152	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1221	1-216-025-91	RES,CHIP	100 5% 1/10W
R1154	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1222	1-216-025-91	RES,CHIP	100 5% 1/10W
R1155	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1223	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1156	1-216-025-91	RES,CHIP	100 5% 1/10W	R1226	1-216-025-91	RES,CHIP	100 5% 1/10W
R1157	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1227	1-216-025-91	RES,CHIP	100 5% 1/10W
R1158	1-216-097-91	RES,CHIP	100K 5% 1/10W	R1231	1-216-295-91	SHORT	0
R1159	1-216-025-91	RES,CHIP	100 5% 1/10W	R1232	1-216-025-91	RES,CHIP	100 5% 1/10W
R1160	1-216-295-91	SHORT	0	R1233	1-216-025-91	RES,CHIP	100 5% 1/10W
R1162	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1234	1-216-025-91	RES,CHIP	100 5% 1/10W
R1164	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1235	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1165	1-216-025-91	RES,CHIP	100 5% 1/10W	R1237	1-216-025-91	RES,CHIP	100 5% 1/10W
R1166	1-216-017-91	RES,CHIP	47 5% 1/10W	R1238	1-216-025-91	RES,CHIP	100 5% 1/10W
R1167	1-216-037-00	RES,CHIP	330 5% 1/10W	R1239	1-216-295-91	SHORT	0
R1168	1-216-025-91	RES,CHIP	100 5% 1/10W	R1240	1-216-025-91	RES,CHIP	100 5% 1/10W
R1169	1-216-017-91	RES,CHIP	47 5% 1/10W	R1241	1-216-025-91	RES,CHIP	100 5% 1/10W
R1170	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1242	1-216-025-91	RES,CHIP	100 5% 1/10W
R1172	1-216-025-91	RES,CHIP	100 5% 1/10W	R1244	1-216-039-00	RES,CHIP	390 5% 1/10W
R1173	1-216-017-91	RES,CHIP	47 5% 1/10W	R1245	1-216-039-00	RES,CHIP	390 5% 1/10W
R1174	1-216-025-91	RES,CHIP	100 5% 1/10W	R1246	1-216-039-00	RES,CHIP	390 5% 1/10W
R1175	1-216-017-91	RES,CHIP	47 5% 1/10W	R1253	1-216-025-91	RES,CHIP	100 5% 1/10W
R1176	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1254	1-216-025-91	RES,CHIP	100 5% 1/10W
R1177	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1259	1-216-025-91	RES,CHIP	100 5% 1/10W
R1178	1-216-025-91	RES,CHIP	100 5% 1/10W	R1260	1-216-025-91	RES,CHIP	100 5% 1/10W
R1179	1-216-025-91	RES,CHIP	100 5% 1/10W	R1261	1-218-758-11	METAL CHIP	180K 0.50% 1/10W
R1180	1-216-025-91	RES,CHIP	100 5% 1/10W	R1262	1-216-699-11	METAL CHIP	100K 0.50% 1/10W
R1181	1-216-025-91	RES,CHIP	100 5% 1/10W	R1263	1-216-699-11	METAL CHIP	100K 0.50% 1/10W
R1182	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1264	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W
R1183	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1265	1-216-699-11	METAL CHIP	100K 0.50% 1/10W
R1184	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1266	1-216-025-91	RES,CHIP	100 5% 1/10W
R1185	1-216-025-91	RES,CHIP	100 5% 1/10W	R1267	1-216-025-91	RES,CHIP	100 5% 1/10W
R1186	1-216-295-91	SHORT	0	R1268	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1187	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1269	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W
R1188	1-216-025-91	RES,CHIP	100 5% 1/10W	R1270	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
R1189	1-216-025-91	RES,CHIP	100 5% 1/10W	R1271	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W
R1190	1-216-025-91	RES,CHIP	100 5% 1/10W	R1272	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R1192	1-216-025-91	RES,CHIP	100 5% 1/10W	R1273	1-216-025-91	RES,CHIP	100 5% 1/10W
R1193	1-216-295-91	SHORT	0	R1274	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1194	1-216-295-91	SHORT	0	R1275	1-216-678-11	METAL CHIP	13K 0.50% 1/10W
R1195	1-216-001-00	RES,CHIP	10 5% 1/10W	R1276	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1196	1-216-295-91	SHORT	0	R1277	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
R1198	1-216-025-91	RES,CHIP	100 5% 1/10W	R1278	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
R1199	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1279	1-216-025-91	RES,CHIP	100 5% 1/10W
R1201	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1280	1-216-025-91	RES,CHIP	100 5% 1/10W
R1202	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1301	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1203	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1306	1-216-295-91	SHORT	0
R1204	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1315	1-216-025-91	RES,CHIP	100 5% 1/10W
R1211	1-216-025-91	RES,CHIP	100 5% 1/10W	R1318	1-216-041-00	RES,CHIP	470 5% 1/10W
R1212	1-216-029-00	RES,CHIP	150 5% 1/10W	R1321	1-216-065-91	RES,CHIP	4.7K 5% 1/10W



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R1324	1-216-033-00	RES,CHIP	220 5% 1/10W	R1408	1-216-025-91	RES,CHIP	100 5% 1/10W
R1328	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1415	1-216-295-91	SHORT	0
R1329	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1416	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1330	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1417	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1331	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1418	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1332	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1420	1-216-075-00	RES,CHIP	12K 5% 1/10W
R1334	1-216-089-91	RES,CHIP	47K 5% 1/10W	R1421	1-216-033-00	RES,CHIP	220 5% 1/10W
R1335	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1422	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1336	1-216-025-91	RES,CHIP	100 5% 1/10W	R1433	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1337	1-216-025-91	RES,CHIP	100 5% 1/10W	R1434	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1338	1-216-025-91	RES,CHIP	100 5% 1/10W	R1435	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1339	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1436	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1340	1-216-133-00	RES,CHIP	3.3M 5% 1/10W	R1437	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1341	1-216-033-00	RES,CHIP	220 5% 1/10W	R1452	1-216-017-91	RES,CHIP	47 5% 1/10W
R1342	1-216-097-91	RES,CHIP	100K 5% 1/10W	R1453	1-216-017-91	RES,CHIP	47 5% 1/10W
R1343	1-216-097-91	RES,CHIP	100K 5% 1/10W	R1454	1-216-017-91	RES,CHIP	47 5% 1/10W
R1344	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1455	1-216-017-91	RES,CHIP	47 5% 1/10W
R1345	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R1462	1-216-295-91	SHORT	0
R1346	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1801	1-216-025-91	RES,CHIP	100 5% 1/10W
R1347	1-216-295-91	SHORT	0	R1802	1-216-025-91	RES,CHIP	100 5% 1/10W
R1348	1-216-085-00	RES,CHIP	33K 5% 1/10W	R1803	1-216-025-91	RES,CHIP	100 5% 1/10W
R1349	1-216-101-00	RES,CHIP	150K 5% 1/10W	R1804	1-216-025-91	RES,CHIP	100 5% 1/10W
R1350	1-216-025-91	RES,CHIP	100 5% 1/10W	R1805	1-216-025-91	RES,CHIP	100 5% 1/10W
R1351	1-216-025-91	RES,CHIP	100 5% 1/10W	R1806	1-216-025-91	RES,CHIP	100 5% 1/10W
R1352	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1807	1-216-025-91	RES,CHIP	100 5% 1/10W
R1353	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1808	1-216-025-91	RES,CHIP	100 5% 1/10W
R1354	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1809	1-216-025-91	RES,CHIP	100 5% 1/10W
R1355	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1810	1-216-025-91	RES,CHIP	100 5% 1/10W
R1356	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1811	1-216-025-91	RES,CHIP	100 5% 1/10W
R1357	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1812	1-216-025-91	RES,CHIP	100 5% 1/10W
R1358	1-216-025-91	RES,CHIP	100 5% 1/10W	R1813	1-216-025-91	RES,CHIP	100 5% 1/10W
R1359	1-216-017-91	RES,CHIP	47 5% 1/10W	R1814	1-216-025-91	RES,CHIP	100 5% 1/10W
R1360	1-216-041-00	RES,CHIP	470 5% 1/10W	R1815	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1361	1-216-017-91	RES,CHIP	47 5% 1/10W	R1816	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1362	1-216-041-00	RES,CHIP	470 5% 1/10W	R1817	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1392	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1818	1-216-295-91	SHORT	0
R1393	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1819	1-216-025-91	RES,CHIP	100 5% 1/10W
R1394	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1820	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1395	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1821	1-216-025-91	RES,CHIP	100 5% 1/10W
R1396	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1823	1-216-025-91	RES,CHIP	100 5% 1/10W
R1397	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1824	1-216-025-91	RES,CHIP	100 5% 1/10W
R1398	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1825	1-216-017-91	RES,CHIP	47 5% 1/10W
R1399	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1825	1-216-025-91	RES,CHIP	100 5% 1/10W
R1400	1-216-025-91	RES,CHIP	100 5% 1/10W	R1826	1-216-017-91	RES,CHIP	47 5% 1/10W
R1401	1-216-025-91	RES,CHIP	100 5% 1/10W	R1827	1-216-025-91	RES,CHIP	100 5% 1/10W
R1402	1-216-025-91	RES,CHIP	100 5% 1/10W	R1828	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1403	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1829	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1404	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1830	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1405	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1831	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1406	1-216-025-91	RES,CHIP	100 5% 1/10W	R1832	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1407	1-216-025-91	RES,CHIP	100 5% 1/10W	R1833	1-216-049-91	RES,CHIP	1K 5% 1/10W



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R1834	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2144	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1835	1-216-025-91	RES,CHIP	100 5% 1/10W	R2145	1-216-295-91	SHORT	0
R1836	1-216-643-11	METAL CHIP	470 0.50% 1/10W	R2146	1-216-295-91	SHORT	0
R1837	1-216-633-11	METAL CHIP	180 0.50% 1/10W	R2147	1-216-295-91	SHORT	0
R1838	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2148	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1839	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2158	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1840	1-216-295-91	SHORT	0	R2159	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1841	1-216-025-91	RES,CHIP	100 5% 1/10W	R2160	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
R1842	1-216-025-91	RES,CHIP	100 5% 1/10W	R2161	1-216-077-00	RES,CHIP	15K 5% 1/10W
R1843	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2162	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1844	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2163	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R1845	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2501	1-216-025-91	RES,CHIP	100 5% 1/10W
R1846	1-216-041-00	RES,CHIP	470 5% 1/10W	R2502	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1850	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2503	1-216-033-00	RES,CHIP	220 5% 1/10W
R1851	1-216-025-91	RES,CHIP	100 5% 1/10W	R2504	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1853	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2505	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R1854	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2506	1-216-025-91	RES,CHIP	100 5% 1/10W
R1855	1-216-025-91	RES,CHIP	100 5% 1/10W	R2507	1-216-025-91	RES,CHIP	100 5% 1/10W
R1857	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2508	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R1858	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2509	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R1859	1-216-025-91	RES,CHIP	100 5% 1/10W	R2511	1-216-085-00	RES,CHIP	33K 5% 1/10W
R1861	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2512	1-216-695-11	METAL CHIP	68K 0.50% 1/10W
R1862	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2513	1-216-699-11	METAL CHIP	100K 0.50% 1/10W
R1863	1-216-025-91	RES,CHIP	100 5% 1/10W	R2515	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1865	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2516	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1866	1-215-863-11	METAL OXIDE	100 5% 1W F	R2517	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1868	1-216-021-00	RES,CHIP	68 5% 1/10W	R2518	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1870	1-216-295-91	SHORT	0	R2519	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1871	1-216-025-91	RES,CHIP	100 5% 1/10W	R2520	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R1872	1-216-025-91	RES,CHIP	100 5% 1/10W	R2521	1-216-025-91	RES,CHIP	100 5% 1/10W
R2114	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2522	1-216-295-91	SHORT	0
R2115	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2523	1-216-295-91	SHORT	0
R2116	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2525	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2117	1-216-295-91	SHORT	0	R3204	1-216-049-91	RES,CHIP	1K 5% 1/10W
R2118	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R3205	1-216-357-00	METAL OXIDE	4.7 5% 1W F
R2120	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R3207	1-216-357-00	METAL OXIDE	4.7 5% 1W F
R2121	1-216-295-91	SHORT	0	R3209	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2122	1-216-089-91	RES,CHIP	47K 5% 1/10W	R3210	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2123	1-216-081-00	RES,CHIP	22K 5% 1/10W	R3212	1-216-025-91	RES,CHIP	100 5% 1/10W
R2124	1-247-807-31	CARBON	100 5% 1/4W	R3213	1-216-025-91	RES,CHIP	100 5% 1/10W
R2126	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R3215	1-216-295-91	SHORT	0
R2128	1-216-295-91	SHORT	0	R3216	1-216-295-91	SHORT	0
R2131	1-216-295-91	SHORT	0	R3217	1-216-295-91	SHORT	0
R2134	1-216-295-91	SHORT	0	R3218	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R2135	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W	R3219	1-216-097-91	RES,CHIP	100K 5% 1/10W
R2136	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3220	1-216-025-91	RES,CHIP	100 5% 1/10W
R2137	1-216-025-91	RES,CHIP	100 5% 1/10W	R3221	1-216-295-91	SHORT	0
R2138	1-216-025-91	RES,CHIP	100 5% 1/10W	R3269	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2139	1-216-025-91	RES,CHIP	100 5% 1/10W	R3270	1-216-025-91	RES,CHIP	100 5% 1/10W
R2141	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3271	1-216-025-91	RES,CHIP	100 5% 1/10W
R2142	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3273	1-216-049-91	RES,CHIP	1K 5% 1/10W

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R3274	1-216-089-91	RES,CHIP	47K 5% 1/10W	C130	1-163-038-91	CERAMIC CHIP 0.1MF	25V
R3301	1-216-073-00	RES,CHIP	10K 5% 1/10W	C131	1-163-038-91	CERAMIC CHIP 0.1MF	25V
R3302	1-216-089-91	RES,CHIP	47K 5% 1/10W	C132	1-163-089-00	CERAMIC CHIP 6PF	0.25PF 50V
R3303	1-216-091-00	RES,CHIP	56K 5% 1/10W	C133	1-163-038-91	CERAMIC CHIP 0.1MF	25V
R3304	1-216-089-91	RES,CHIP	47K 5% 1/10W	C134	1-164-346-11	CERAMIC CHIP 1MF	16V
R3305	1-216-091-00	RES,CHIP	56K 5% 1/10W	C135	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
R3306	1-216-089-91	RES,CHIP	47K 5% 1/10W	C136	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
R3307	1-216-091-00	RES,CHIP	56K 5% 1/10W	C137	1-163-038-91	CERAMIC CHIP 0.1MF	25V
R3308	1-216-089-91	RES,CHIP	47K 5% 1/10W	C138	1-163-038-91	CERAMIC CHIP 0.1MF	25V
R3309	1-216-091-00	RES,CHIP	56K 5% 1/10W	C139	1-163-038-91	CERAMIC CHIP 0.1MF	25V
<TUNER>				C140	1-163-038-91	CERAMIC CHIP 0.1MF	25V
TU101	1-693-339-21	TUNER/VIF		C141	1-163-038-91	CERAMIC CHIP 0.1MF	25V
<CRYSTAL>				C142	1-163-038-91	CERAMIC CHIP 0.1MF	25V
X201	1-760-628-11	VIBRATOR, CRYSTAL		C143	1-163-038-91	CERAMIC CHIP 0.1MF	25V
X1105	1-760-551-21	VIBRATOR, CERAMIC		C144	1-104-664-11	ELECT 47MF	20% 25V
X1107	1-760-105-11	VIBRATOR, CRYSTAL		C145	1-104-664-11	ELECT 47MF	20% 25V
X2501	1-567-970-31	VIBRATOR, CRYSTAL		C146	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
*****				C147	1-163-038-91	CERAMIC CHIP 0.1MF	25V
*A-1632-771-A A1 BOARD, COMPLETE				C148	1-163-038-91	CERAMIC CHIP 0.1MF	25V
*****				C149	1-163-038-91	CERAMIC CHIP 0.1MF	25V
<CAPACITOR>				C150	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C101	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C151	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C102	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C152	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C103	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C153	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C104	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C154	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C105	1-104-664-11	ELECT 47MF	20% 25V	C155	1-164-346-11	CERAMIC CHIP 1MF	16V
C106	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C156	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C107	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C158	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C108	1-126-968-11	ELECT 100MF	20% 50V	C159	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C109	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C161	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C110	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C162	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C111	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C163	1-104-664-11	ELECT 47MF	20% 25V
C112	1-126-968-11	ELECT 100MF	20% 50V	C164	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C113	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C165	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C114	1-104-664-11	ELECT 47MF	20% 25V	C166	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C115	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C167	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C116	1-126-968-11	ELECT 100MF	20% 50V	C168	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C117	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C169	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C118	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C170	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C119	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C171	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C122	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C172	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C123	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C173	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C124	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C174	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C125	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C175	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C126	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C176	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C127	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C177	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C129	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C178	1-163-038-91	CERAMIC CHIP 0.1MF	25V
				C179	1-163-038-91	CERAMIC CHIP 0.1MF	25V
				C180	1-163-038-91	CERAMIC CHIP 0.1MF	25V
				C181	1-163-038-91	CERAMIC CHIP 0.1MF	25V
				C182	1-163-038-91	CERAMIC CHIP 0.1MF	25V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C183	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC104	8-759-701-39	IC NJM3404AM	
C184	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC105	8-759-499-45	IC MC92308C1	
C185	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC106	8-759-499-40	IC MC92309	
C186	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC107	8-759-447-77	IC TC7WH74FU(TE12R)	
C187	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC108	8-759-098-24	IC PQ30RV11	
C191	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC109	8-759-447-77	IC TC7WH74FU(TE12R)	
C192	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC111	8-759-271-86	IC TC7SH04FU	
C193	1-126-968-11	ELECT 100MF	20% 50V			<COIL>	
C194	1-126-968-11	ELECT 100MF	20% 50V				
C198	1-163-038-91	CERAMIC CHIP 0.1MF	25V	L102	1-414-140-11	INDUCTOR 0.68UH	
		<CONNECTOR>		L103	1-412-539-11	INDUCTOR 150UH	
CN101	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P				<TRANSISTOR>	
CN102	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P					
		<DIODE>		Q116	8-729-044-27	TRANSISTOR 2SC3837KT146NP	
D101	8-719-043-11	DIODE MA3330-L-TX		Q117	8-729-044-27	TRANSISTOR 2SC3837KT146NP	
D102	8-719-812-43	DIODE TLG124A		Q118	1-801-806-11	TRANSISTOR DTC144EKA-T146	
D103	8-719-812-43	DIODE TLG124A		Q119	1-801-806-11	TRANSISTOR DTC144EKA-T146	
D104	8-719-031-68	DIODE HVU359TRF				<RESISTOR>	
D105	8-719-058-24	DIODE RB501V-40TE-17		JR101	1-216-295-91	SHORT 0	
D106	8-719-058-24	DIODE RB501V-40TE-17		JR102	1-216-295-91	SHORT 0	
D107	8-719-058-24	DIODE RB501V-40TE-17		JR105	1-216-296-91	SHORT 0	
D108	8-719-058-24	DIODE RB501V-40TE-17		R103	1-216-647-11	METAL CHIP 680 0.50% 1/10W	
		<FERRITE BEAD>		R104	1-216-295-91	SHORT 0	
FB102	1-414-232-22	INDUCTOR CHIP 0UH		R105	1-216-295-91	SHORT 0	
FB103	1-414-232-22	INDUCTOR CHIP 0UH		R106	1-216-641-11	METAL CHIP 390 0.50% 1/10W	
FB104	1-414-232-22	INDUCTOR CHIP 0UH		R116	1-216-025-91	RES,CHIP 100 5% 1/10W	
FB105	1-414-232-22	INDUCTOR CHIP 0UH		R127	1-215-892-11	METAL OXIDE 1K 5% 2W F	
FB106	1-414-232-22	INDUCTOR CHIP 0UH		R140	1-216-081-00	RES,CHIP 22K 5% 1/10W	
FB107	1-414-232-22	INDUCTOR CHIP 0UH		R145	1-216-075-00	RES,CHIP 12K 5% 1/10W	
FB108	1-414-232-22	INDUCTOR CHIP 0UH		R146	1-216-073-00	RES,CHIP 10K 5% 1/10W	
FB109	1-414-232-22	INDUCTOR CHIP 0UH		R149	1-216-041-00	RES,CHIP 470 5% 1/10W	
FB111	1-414-232-22	INDUCTOR CHIP 0UH		R150	1-216-009-91	RES,CHIP 22 5% 1/10W	
FB112	1-414-232-22	INDUCTOR CHIP 0UH		R155	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	
FB113	1-414-232-22	INDUCTOR CHIP 0UH		R156	1-216-075-00	RES,CHIP 12K 5% 1/10W	
FB114	1-414-232-22	INDUCTOR CHIP 0UH		R157	1-216-025-91	RES,CHIP 100 5% 1/10W	
FB115	1-414-232-22	INDUCTOR CHIP 0UH		R158	1-216-025-91	RES,CHIP 100 5% 1/10W	
FB116	1-414-232-22	INDUCTOR CHIP 0UH		R159	1-216-045-00	RES,CHIP 680 5% 1/10W	
		<FILTER>		R160	1-216-031-00	RES,CHIP 180 5% 1/10W	
FL101	1-239-899-21	FILTER, CHIP EMI		R161	1-216-009-91	RES,CHIP 22 5% 1/10W	
FL102	1-239-899-21	FILTER, CHIP EMI		R162	1-216-295-91	SHORT 0	
FL103	1-239-899-21	FILTER, CHIP EMI		R163	1-216-043-91	RES,CHIP 560 5% 1/10W	
FL104	1-239-899-21	FILTER, CHIP EMI		R164	1-216-009-91	RES,CHIP 22 5% 1/10W	
FL105	1-239-899-21	FILTER, CHIP EMI		R165	1-216-049-91	RES,CHIP 1K 5% 1/10W	
		<IC>		R166	1-216-049-91	RES,CHIP 1K 5% 1/10W	
IC101	8-759-533-72	IC MC92307C1		R173	1-216-097-91	RES,CHIP 100K 5% 1/10W	
IC102	8-759-456-86	IC TC7SH14F(TE85L)		R175	1-216-077-00	RES,CHIP 15K 5% 1/10W	
IC103	8-759-271-86	IC TC7SH04FU		R177	1-216-017-91	RES,CHIP 47 5% 1/10W	
				R181	1-216-025-91	RES,CHIP 100 5% 1/10W	
				R183	1-216-025-91	RES,CHIP 100 5% 1/10W	
				R226	1-216-025-91	RES,CHIP 100 5% 1/10W	

A1**C**

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

REF.NO.	PART.NO	DESCRIPTION	REMARK
R227	1-216-025-91	RES,CHIP 100 5%	1/10W
R232	1-216-009-91	RES,CHIP 22 5%	1/10W
R234	1-216-009-91	RES,CHIP 22 5%	1/10W
R235	1-216-049-91	RES,CHIP 1K 5%	1/10W
R237	1-216-107-00	RES,CHIP 270K 5%	1/10W
R238	1-216-107-00	RES,CHIP 270K 5%	1/10W
R239	1-216-049-91	RES,CHIP 1K 5%	1/10W
<RESISTOR CHIP NETWORK>			
RB101	1-239-409-11	RES, CHIP NETWORK	47
RB102	1-239-409-11	RES, CHIP NETWORK	47
RB103	1-239-409-11	RES, CHIP NETWORK	47
RB104	1-239-409-11	RES, CHIP NETWORK	47
RB105	1-239-409-11	RES, CHIP NETWORK	47
<TUNER>			
TU101	8-598-484-00	FRONTEND BTD-DU601	
<CRYSTAL>			
X101	1-781-277-11	VIBRATOR, CRYSTAL	

*A-1638-114-A	C BOARD, COMPLETE	*****	
4-382-854-11	SCREW (M3X10), P, SW (+)		
<CAPACITOR>			
C701	1-107-967-11	ELECT 1MF 20%	400V
C702	1-107-967-11	ELECT 1MF 20%	400V
C703	1-107-967-11	ELECT 1MF 20%	400V
C704	1-102-129-00	CERAMIC 0.01MF 10%	50V
C705	1-128-528-11	ELECT 470MF 20%	16V
C706	1-128-528-11	ELECT 470MF 20%	16V
C707	1-128-528-11	ELECT 470MF 20%	16V
C708	1-102-157-00	CERAMIC 560PF 10%	500V
C709	1-102-157-00	CERAMIC 560PF 10%	500V
C710	1-102-157-00	CERAMIC 560PF 10%	500V
C711	1-107-907-11	ELECT 22MF 20%	50V
C712	1-162-116-00	CERAMIC 680PF 10%	2KV
C714	1-162-116-00	CERAMIC 680PF 10%	2KV
C715	1-102-129-00	CERAMIC 0.01MF 10%	50V
C716	1-102-129-00	CERAMIC 0.01MF 10%	50V
C717	1-107-902-11	ELECT 1MF 20%	50V
C718	1-107-652-11	ELECT 10MF 20%	250V
C719	1-162-116-00	CERAMIC 680PF 10%	2KV
C727	1-136-207-11	FILM 0.047MF 10%	400V
C728	1-136-207-11	FILM 0.047MF 10%	400V
C729	1-136-207-11	FILM 0.047MF 10%	400V
C730	1-102-959-00	CERAMIC 22PF 5%	50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
<CONNECTOR>			
CN701	*1-564-511-11	PLUG, CONNECTOR 8P	
CN703	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
CN704	1-695-915-11	TAB (CONTACT)	
<DIODE>			
D701	8-719-991-33	DIODE 1SS133T-77	
D702	8-719-901-83	DIODE 1SS83	
D703	8-719-901-83	DIODE 1SS83	
D704	8-719-901-83	DIODE 1SS83	
D705	8-719-991-33	DIODE 1SS133T-77	
D706	8-719-908-03	DIODE GP08D	
D707	8-719-991-33	DIODE 1SS133T-77	
D708	8-719-923-60	DIODE MTZJ-T-77-9.1A	
D709	8-719-921-88	DIODE MTZJ-13B	
D711	8-719-911-19	DIODE 1SS119-25	
D712	8-719-911-19	DIODE 1SS119-25	
D714	8-719-982-96	DIODE MTZJ-T-77-2.2A	
D715	8-719-911-19	DIODE 1SS119-25	
D716	8-719-982-96	DIODE MTZJ-T-77-2.2A	
D721	8-719-031-34	DIODE RGP02-20EG23	
<IC>			
IC701	8-759-360-83	IC TDA6111Q/N4	
IC702	8-759-360-83	IC TDA6111Q/N4	
IC703	8-759-360-83	IC TDA6111Q/N4	
<JACK>			
J701	△ 1-540-071-22	SOCKET, CRT	
<COIL>			
L701	1-410-671-31	INDUCTOR 47UH	
L702	1-408-599-31	INDUCTOR 4.7UH	
L703	1-408-599-31	INDUCTOR 4.7UH	
L704	1-408-599-31	INDUCTOR 4.7UH	
L705	1-408-603-31	INDUCTOR 10UH	
L706	1-412-525-31	INDUCTOR 10UH	
<TRANSISTOR>			
Q701	8-729-255-12	TRANSISTOR 2SC2551-0	
Q702	8-729-255-12	TRANSISTOR 2SC2551-0	
Q703	8-729-255-12	TRANSISTOR 2SC2551-0	
Q704	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q705	8-729-029-56	TRANSISTOR DTA144ESA	
Q706	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<RESISTOR>			
R701	1-249-420-11	CARBON 1.8K 5%	1/4W
R702	1-249-425-11	CARBON 4.7K 5%	1/4W
R703	1-249-435-11	CARBON 33K 5%	1/4W

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R704	1-249-429-11	CARBON	10K 5% 1/4W	C2673	1-126-967-11	ELECT 47MF	20% 50V
R705	1-249-430-11	CARBON	12K 5% 1/4W	C2676	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R706	1-247-863-91	CARBON	22K 5% 1/4W	C2677	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R707	1-247-863-91	CARBON	22K 5% 1/4W				
R708	1-247-863-91	CARBON	22K 5% 1/4W			<CONNECTOR>	
R709	1-249-415-11	CARBON	680 5% 1/4W	CN2612	*1-770-748-11	CONNECTOR, BOARD TO BOARD 12P	
R710	1-249-415-11	CARBON	680 5% 1/4W			<DIODE>	
R711	1-249-415-11	CARBON	680 5% 1/4W				
R712	1-249-421-11	CARBON	2.2K 5% 1/4W	D2609	8-719-914-43	DIODE DAN202K	
R713	1-249-418-11	CARBON	1.2K 5% 1/4W	D2620	8-719-914-43	DIODE DAN202K	
R714	1-249-417-11	CARBON	1K 5% 1/4W	D2622	8-719-914-43	DIODE DAN202K	
R715	1-249-417-11	CARBON	1K 5% 1/4W	D2624	8-719-914-43	DIODE DAN202K	
R716	1-249-417-11	CARBON	1K 5% 1/4W	D2666	8-719-056-83	DIODE UDZ-TE-17-6.8B	
R717	1-249-417-11	CARBON	1K 5% 1/4W			<IC>	
R718	1-249-417-11	CARBON	1K 5% 1/4W				
R719	1-249-417-11	CARBON	1K 5% 1/4W	IC2604	8-759-908-15	IC TL431CLP	
R720	1-215-926-00	METAL OXIDE	33K 5% 3W F			<TRANSISTOR>	
R721	1-215-926-00	METAL OXIDE	33K 5% 3W F				
R722	1-215-926-00	METAL OXIDE	33K 5% 3W F	Q2602	8-729-620-06	TRANSISTOR 2SC3052-EF	
R723	1-249-408-11	CARBON	180 5% 1/4W	Q2604	8-729-620-06	TRANSISTOR 2SC3052-EF	
R724	1-249-408-11	CARBON	180 5% 1/4W	Q2605	8-729-216-22	TRANSISTOR 2SA1162-G	
R725	1-249-408-11	CARBON	180 5% 1/4W	Q2606	8-729-620-06	TRANSISTOR 2SC3052-EF	
R726	1-202-565-00	SOLID	470 20% 1/2W	Q2607	8-729-620-06	TRANSISTOR 2SC3052-EF	
R727	1-202-565-00	SOLID	470 20% 1/2W	Q2608	8-729-216-22	TRANSISTOR 2SA1162-G	
R728	1-202-565-00	SOLID	470 20% 1/2W	Q2610	8-729-901-00	TRANSISTOR DTC124EK	
R729	1-249-424-11	CARBON	3.9K 5% 1/4W	Q2613	8-729-900-53	TRANSISTOR DTC114EK	
R730	1-249-424-11	CARBON	3.9K 5% 1/4W	Q2617	8-729-620-06	TRANSISTOR 2SC3052-EF	
R731	1-249-424-11	CARBON	3.9K 5% 1/4W	Q2618	8-729-900-53	TRANSISTOR DTC114EK	
R732	1-202-549-00	SOLID	100 20% 1/2W			<RESISTOR>	
R733	1-247-863-91	CARBON	22K 5% 1/4W	R2607	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R734	1-202-549-00	SOLID	100 20% 1/2W	R2608	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R735	1-249-416-11	CARBON	820 5% 1/4W	R2618	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R736	1-202-884-11	SOLID	820K 20% 1/2W	R2620	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R737	1-202-884-11	SOLID	820K 20% 1/2W	R2623	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R738	1-216-392-11	METAL OXIDE	1.8 5% 3W F	R2625	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R739	1-216-392-11	METAL OXIDE	1.8 5% 3W F	R2628	1-216-025-91	RES,CHIP 100 5% 1/10W	
R740	1-249-429-11	CARBON	10K 5% 1/4W	R2630	1-216-025-91	RES,CHIP 100 5% 1/10W	
R741	1-249-438-11	CARBON	56K 5% 1/4W	R2631	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R742	1-249-417-11	CARBON	1K 5% 1/4W F	R2632	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R747	1-215-911-11	METAL OXIDE	100 5% 3W F	R2633	1-216-049-91	RES,CHIP 1K 5% 1/10W	
		<VARIABLE RESISTOR>		R2635	1-216-668-11	METAL CHIP 5.1K 0.50% 1/10W	
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		R2636	1-216-049-91	RES,CHIP 1K 5% 1/10W	
RV702	1-241-656-21	RES, ADJ, METAL FILM 110M		R2661	1-216-049-91	RES,CHIP 1K 5% 1/10W	
*****				R2666	1-216-081-00	RES,CHIP 22K 5% 1/10W	
*A-1640-314-A D2 BOARD, COMPLETE				R2669	1-216-697-91	METAL CHIP 82K 0.50% 1/10W	
*****				R2670	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
<CAPACITOR>				R2671	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
C2609	1-104-664-11	ELECT 47MF	20% 25V	R2676	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W	



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
*A-1642-236-A	D1 BOARD, COMPLETE (KV-28DS60U)	*****		C1553	1-107-909-11	ELECT 47MF	20% 50V
*A-1642-237-A	D1 BOARD, COMPLETE (KV-32DS60U)	*****		C1555	1-126-964-11	ELECT 10MF	20% 50V
				C1556	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
				C1558	1-102-030-00	CERAMIC 330PF	10% 500V
				C1560	1-162-117-00	CERAMIC 100PF	10% 500V
4-382-854-11	SCREW (M3X10), P, SW (+)			C1562	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	<CAPACITOR>			C1566	1-107-906-11	ELECT 10MF	20% 50V
C1501	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1567	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C1502	1-107-909-11	ELECT 47MF	20% 50V	C1568	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1503	1-136-177-00	FILM 1MF	5% 50V	C1569	1-107-714-11	ELECT 10MF	20% 50V
C1504	1-126-964-11	ELECT 10MF	20% 50V	C1570	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
C1505	1-126-967-11	ELECT 47MF	20% 50V	C1571	1-136-159-00	FILM 0.033MF	5% 50V
				C1572	1-130-834-00	MYLAR 1MF	20% 63V
C1506	1-126-967-11	ELECT 47MF	20% 50V				(KV-28DS60U)
C1507	1-163-251-11	CERAMIC CHIP 100PF	5% 50V		1-136-165-00	FILM 0.1MF	5% 50V
C1508	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				(KV-32DS60U)
C1509	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C1573	1-136-153-00	FILM 0.01MF	5% 50V
C1510	1-136-177-00	FILM 1MF	5% 50V	C1574	1-104-665-11	ELECT 100MF	20% 25V
				C1576	1-129-718-00	FILM 0.022MF	5% 630V
C1511	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V				(KV-28DS60U)
C1512	1-126-967-11	ELECT 47MF	20% 50V		1-129-716-00	FILM 0.015MF	5% 630V
C1513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				(KV-32DS60U)
C1514	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C1577	1-136-347-11	FILM 0.0047MF	5% 630V
C1515	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V				(KV-32DS60U)
C1516	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	C1578	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V
C1518	1-136-479-11	FILM 0.001MF	2% 50V	C1579	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V
C1520	1-107-909-11	ELECT 47MF	20% 50V	C1580	1-107-902-11	ELECT 1MF	20% 50V
C1521	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V				
C1522	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V	C1587	1-164-346-11	CERAMIC CHIP 1MF	16V
				C1589	1-126-959-11	ELECT 0.47MF	20% 50V
C1524	1-137-503-11	FILM 100PF	5% 100V	C1590	1-128-526-11	ELECT 100MF	20% 16V
C1525	1-129-716-00	FILM 0.015MF	5% 630V	C1591	1-136-165-00	FILM 0.1MF	5% 50V
			(KV-28DS60U)	C1595	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
	1-136-347-11	FILM 0.0047MF	5% 630V				
			(KV-32DS60U)	C1596	1-107-906-11	ELECT 10MF	20% 50V
C1526	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1598	1-107-909-11	ELECT 47MF	20% 50V
C1528	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C1599	1-107-909-11	ELECT 47MF	20% 50V
C1529	1-102-110-00	CERAMIC 220PF	10% 50V	C1601	1-137-389-11	FILM 0.0022MF	5% 100V
C1530	1-136-189-00	FILM 0.1MF	10% 250V	C1602	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1531	1-107-906-11	ELECT 10MF	20% 50V				
				C1603	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1532	1-107-906-11	ELECT 10MF	20% 50V	C1604	1-137-389-11	FILM 0.0022MF	5% 100V
C1533	1-126-963-11	ELECT 4.7MF	20% 50V	C1605	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1534	1-107-906-11	ELECT 10MF	20% 50V	C1606	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1535	1-107-902-11	ELECT 1MF	20% 50V	C1607	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1537	1-164-690-91	CERAMIC CHIP 0.0022MF	5% 50V				
C1538	1-126-967-11	ELECT 47MF	20% 50V	C1609	1-126-964-11	ELECT 10MF	20% 50V
C1539	1-104-664-11	ELECT 47MF	20% 25V	C1610	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C1542	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C1611	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C1543	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C1613	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1550	1-136-207-11	FILM 0.047MF	10% 250V	C1614	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C1551	1-115-516-11	FILM 0.33MF	5% 250V				
			(KV-28DS60U)				
	1-117-451-11	FILM 0.43MF	5% 250V	CN1501	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	
			(KV-32DS60U)	CN1503	*1-564-511-61	PLUG, CONNECTOR 8P	
				CN1504	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	

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

D1

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
CN1505	*1-568-878-51	PIN, CONNECTOR 3P				<COIL>	
		<DIODE>					
D1502	8-719-914-43	DIODE DAN202K		L1501	1-406-989-21	INDUCTOR 10MMH	
D1503	8-719-914-43	DIODE DAN202K		L1504	1-411-557-11	INDUCTOR 4.5UH	
D1504	8-719-914-43	DIODE DAN202K		L1507	1-406-989-21	INDUCTOR 10MMH	
D1506	8-719-914-43	DIODE DAN202K		L1508	1-412-537-31	INDUCTOR 100UH	
D1509	8-719-401-32	DIODE MA3047M-TX		L1518	1-406-680-11	INDUCTOR 33MMH	
				L1519	1-412-531-31	INDUCTOR 33UH	
D1510	8-719-914-43	DIODE DAN202K				<IC LINK>	
D1511	8-719-979-85	DIODE EGP20G		PS1502 Δ	1-533-590-31	LINK, IC	
D1512	8-719-914-43	DIODE DAN202K				<TRANSISTOR>	
D1513	8-719-981-94	DIODE MTZJ-2.7A		Q1501	8-729-620-06	TRANSISTOR 2SC3052-EF	
D1514	8-719-914-43	DIODE DAN202K		Q1502	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q1503	8-729-216-22	TRANSISTOR 2SA1162-G	
D1515	8-719-914-43	DIODE DAN202K		Q1504	8-729-216-22	TRANSISTOR 2SA1162-G	
D1516	8-719-914-43	DIODE DAN202K		Q1505	8-729-620-06	TRANSISTOR 2SC3052-EF	
D1524	8-719-302-43	DIODE EL1Z					
D1526	8-719-402-92	DIODE MA3220M-TX		Q1506	8-729-620-06	TRANSISTOR 2SC3052-EF	
D1527	8-719-106-71	DIODE RD12M-B2		Q1507	8-729-620-06	TRANSISTOR 2SC3052-EF	
				Q1508	8-729-045-54	TRANSISTOR 2SK2774-01MR-F111	
D1529	8-719-947-06	DIODE RGP10JPKG23		Q1509	8-729-216-22	TRANSISTOR 2SA1162-G	
D1530	8-719-971-20	DIODE ERC38-06		Q1510	8-729-034-09	TRANSISTOR 2SK2518-01MR	
D1531	8-719-914-42	DIODE DA204K					
D1532	8-719-914-43	DIODE DAN202K		Q1513	8-729-045-54	TRANSISTOR 2SK2774-01MR-F111	
D1534	8-719-914-43	DIODE DAN202K		Q1514	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q1515	8-729-140-97	TRANSISTOR 2SB734-34	
D1535	8-719-987-87	DIODE ERA85-009		Q1516	8-729-140-97	TRANSISTOR 2SB734-34	
D1546	8-719-914-43	DIODE DAN202K		Q1522	8-729-216-22	TRANSISTOR 2SA1162-G	
D1547	8-719-914-43	DIODE DAN202K					
D1548	8-719-914-43	DIODE DAN202K		Q1523	8-729-620-06	TRANSISTOR 2SC3052-EF	
D1549	8-719-110-41	DIODE RD15ESB2		Q1524	8-729-620-06	TRANSISTOR 2SC3052-EF	
		<FERRITE BEAD>		Q1526	8-729-620-06	TRANSISTOR 2SC3052-EF	
FB1501	1-410-397-21	FERRITE 1.1UH		Q1527	8-729-017-06	TRANSISTOR 2SC4793	
FB1502	1-410-397-21	FERRITE 1.1UH		Q1528	8-729-017-05	TRANSISTOR 2SA1837	
		<IC>					
IC1501	8-759-325-48	IC CA0005AD		Q1529	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC1502	8-759-983-69	IC LM358PS		Q1530	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1503	8-759-988-13	IC LM393PS		Q1531	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1504	8-759-988-13	IC LM393PS				<RESISTOR>	
IC1505	8-759-988-13	IC LM393PS		JR1501	1-216-295-91	SHORT 0	
IC1506	8-759-822-38	IC LA6510		R1500	1-216-049-91	RES,CHIP 1K 5% 1/10W	
IC1507	8-759-251-31	IC CA0007AM		R1501	1-216-089-91	RES,CHIP 47K 5% 1/10W	
IC1508	8-759-988-13	IC LM393PS		R1502	1-216-081-00	RES,CHIP 22K 5% 1/10W	
IC1510	8-759-185-47	IC IR2112		R1504	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
IC1511	8-752-072-94	IC CXA1875AM-T4		R1505	1-216-695-11	METAL CHIP 68K 0.50% 1/10W	
IC1513	8-759-604-39	IC M5F78M12L		R1506	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
IC1515	8-759-983-69	IC LM358PS		R1507	1-216-097-91	RES,CHIP 100K 5% 1/10W	
IC1517	8-759-325-48	IC CA0005AD		R1508	1-216-073-00	RES,CHIP 10K 5% 1/10W	
IC1518	8-759-145-58	IC UPC4558C		R1509	1-216-097-91	RES,CHIP 100K 5% 1/10W	
IC1519	8-759-983-69	IC LM358PS		R1510	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
				R1511	1-216-699-11	METAL CHIP 100K 0.50% 1/10W	

D1

REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
R1512	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R1567	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1513	1-216-687-11	METAL CHIP	33K 0.50% 1/10W	R1568	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
R1514	1-216-679-11	METAL CHIP	15K 0.50% 1/10W	R1569	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
R1515	1-216-699-11	METAL CHIP	100K 0.50% 1/10W	R1570	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1516	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1571	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R1517	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1572	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1518	1-216-041-00	RES,CHIP	470 5% 1/10W	R1573	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1519	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1574	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R1520	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1575	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1522	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1576	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1523	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R1577	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R1524	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1578	1-216-295-91	SHORT	0
R1525	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1579	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R1526	1-216-295-91	SHORT	0	R1580	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1527	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1581	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1528	1-216-681-11	METAL CHIP	18K 0.50% 1/10W	R1583	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1529	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1584	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1530	1-249-417-11	CARBON	1K 5% 1/4W	R1587	1-216-079-00	RES,CHIP	18K 5% 1/10W
R1531	1-218-754-11	METAL CHIP	120K 0.50% 1/10W	R1588	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1532	1-216-670-11	METAL CHIP	6.2K 0.50% 1/10W	R1589	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1533	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R1590	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1534	1-216-699-11	METAL CHIP	100K 0.50% 1/10W	R1593	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R1535	1-216-679-11	METAL CHIP	15K 0.50% 1/10W (KV-28DS60U)	R1595	1-216-295-91	SHORT	0
	1-216-677-11	METAL CHIP	12K 0.50% 1/10W (KV-32DS60U)	R1597	1-216-097-91	RES,CHIP	100K 5% 1/10W
R1537	1-216-683-11	METAL CHIP	22K 0.50% 1/10W (KV-28DS60U)	R1598	1-216-083-00	RES,CHIP	27K 5% 1/10W
	1-216-685-11	METAL CHIP	27K 0.50% 1/10W (KV-32DS60U)	R1599	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1538	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1600	1-249-441-11	CARBON	100K 5% 1/4W
R1539	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1602	1-216-097-91	RES,CHIP	100K 5% 1/10W
R1540	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1604	1-260-323-71	CARBON	390 5% 1/2W
R1541	1-216-295-91	SHORT	0	R1606	1-216-033-00	RES,CHIP	220 5% 1/10W
R1542	1-216-295-91	SHORT	0	R1607	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1543	1-249-415-11	CARBON	680 5% 1/4W	R1608	1-216-025-91	RES,CHIP	100 5% 1/10W
R1545	1-216-043-91	RES,CHIP	560 5% 1/10W	R1609	1-216-025-91	RES,CHIP	100 5% 1/10W
R1547	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1610	1-216-025-91	RES,CHIP	100 5% 1/10W
R1548	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1611	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1549	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1612	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1550	1-216-077-00	RES,CHIP	15K 5% 1/10W	R1613	1-249-385-11	CARBON	2.2 5% 1/4W F
R1551	1-216-676-11	METAL CHIP	11K 0.50% 1/10W	R1614	1-240-265-11	CMT,MELF	2.7 5% 10W (KV-28DS60U)
R1552	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W		1-240-581-11	REGISTER	0 (KV-32DS60U)
R1553	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R1615	1-240-265-11	CMT,MELF	2.7 5% 10W (KV-28DS60U)
R1554	1-216-061-00	RES,CHIP	3.3K 5% 1/10W		1-240-581-11	REGISTER	0 (KV-32DS60U)
R1555	1-216-295-91	SHORT	0	R1616	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1556	1-216-025-91	RES,CHIP	100 5% 1/10W	R1618	1-216-101-00	RES,CHIP	150K 5% 1/10W
R1559	1-216-099-00	RES,CHIP	120K 5% 1/10W	R1619	1-216-695-11	METAL CHIP	68K 0.50% 1/10W
R1560	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1620	1-216-695-11	METAL CHIP	68K 0.50% 1/10W
R1561	1-216-097-91	RES,CHIP	100K 5% 1/10W	R1621	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W
R1562	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1622	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R1563	1-216-097-91	RES,CHIP	100K 5% 1/10W	R1623	1-216-085-00	RES,CHIP	33K 5% 1/10W
R1564	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1624	1-216-295-91	SHORT	0
R1565	1-216-689-11	METAL CHIP	39K 0.50% 1/10W	R1627	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
R1566	1-216-679-11	METAL CHIP	15K 0.50% 1/10W	R1628	1-218-762-11	METAL CHIP	270K 0.50% 1/10W



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R1629	1-218-774-11	METAL CHIP	820K 0.50% 1/10W	R1696	1-216-097-91	RES,CHIP	100K 5% 1/10W
R1630	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W (KV-28DS60U)	R1697	1-216-073-00	RES,CHIP	10K 5% 1/10W
	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W (KV-32DS60U)	R1698	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R1631	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1699	1-216-077-00	RES,CHIP	15K 5% 1/10W
R1632	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R1700	1-216-085-00	RES,CHIP	33K 5% 1/10W
R1633	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1701	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1635	1-216-047-91	RES,CHIP	820 5% 1/10W	R1702	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1636	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1703	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R1637	1-216-033-00	RES,CHIP	220 5% 1/10W	R1704	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1639	1-215-911-11	METAL OXIDE	100 5% 3W (KV-28DS60U)	R1705	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
	1-216-474-11	METAL OXIDE	82 5% 3W (KV-32DS60U)	R1708	1-216-101-00	RES,CHIP	150K 5% 1/10W (KV-28DS60U)
R1640	1-216-675-11	METAL CHIP	10K 0.50% 1/10W		1-216-105-91	RES,CHIP	220K 5% 1/10W (KV-32DS60U)
R1641	1-216-677-11	METAL CHIP	12K 0.50% 1/10W (KV-28DS60U)	R1709	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
	1-216-675-11	METAL CHIP	10K 0.50% 1/10W (KV-32DS60U)	R1711	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R1642	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1713	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1643	1-216-033-00	RES,CHIP	220 5% 1/10W	R1714	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1646	1-218-762-11	METAL CHIP	270K 0.50% 1/10W	R1715	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R1647	1-218-760-11	METAL CHIP	220K 0.50% 1/10W (KV-32DS60U)	R1716	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1649	1-216-689-11	METAL CHIP	39K 0.50% 1/10W	R1717	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1650	1-216-688-11	METAL CHIP	36K 0.50% 1/10W (KV-28DS60U)	R1719	1-216-101-00	RES,CHIP	150K 5% 1/10W
	1-216-689-11	METAL CHIP	39K 0.50% 1/10W (KV-32DS60U)	R1720	1-216-079-00	RES,CHIP	18K 5% 1/10W
R1653	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1721	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1654	1-215-898-11	METAL OXIDE	10K 5% 2W	R1728	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1655	1-216-105-91	RES,CHIP	220K 5% 1/10W	R1730	1-216-091-00	RES,CHIP	56K 5% 1/10W
R1656	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1731	1-216-025-91	RES,CHIP	100 5% 1/10W
R1657	1-215-880-00	METAL OXIDE	10 5% 2W	R1732	1-216-025-91	RES,CHIP	100 5% 1/10W
R1658	1-249-385-11	CARBON	2.2 5% 1/4W	R1733	1-216-125-00	RES,CHIP	1.5M 5% 1/10W
R1659	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R1734	1-216-125-00	RES,CHIP	1.5M 5% 1/10W
R1660	1-216-295-91	SHORT	0	R1735	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R1661	1-216-295-91	SHORT	0	R1736	1-216-085-00	RES,CHIP	33K 5% 1/10W
R1663	1-216-485-11	METAL OXIDE	5.6K 5% 3W	R1739	1-216-295-91	SHORT	0
R1664	1-215-922-11	METAL OXIDE	6.8K 5% 3W (KV-28DS60U)	R1743	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
	1-216-485-11	METAL OXIDE	5.6K 5% 3W (KV-32DS60U)			<VARIABLE RESISTOR>	
R1665	1-215-922-11	METAL OXIDE	6.8K 5% 3W (KV-28DS60U)	RV1502	1-241-765-11	RES, ADJ, CARBON	22K
	1-216-485-11	METAL OXIDE	5.6K 5% 3W (KV-32DS60U)	RV1503	1-241-765-11	RES, ADJ, CARBON	22K
R1666	1-218-762-11	METAL CHIP	270K 0.50% 1/10W (KV-32DS60U)	RV1504	1-241-765-11	RES, ADJ, CARBON	22K
R1667	1-216-101-00	RES,CHIP	150K 5% 1/10W			*****	
R1668	1-216-049-91	RES,CHIP	1K 5% 1/10W			*A-1642-235-A	D BOARD, COMPLETE (KV-28DS60U)
R1669	1-216-049-91	RES,CHIP	1K 5% 1/10W				*****
R1670	1-216-675-11	METAL CHIP	10K 0.50% 1/10W			*A-1642-238-A	D BOARD, COMPLETE (KV-32DS60U)
R1671	1-216-077-00	RES,CHIP	15K 5% 1/10W				*****
R1672	1-216-067-00	RES,CHIP	5.6K 5% 1/10W			4-200-399-01	SPACER, IC
R1673	1-216-073-00	RES,CHIP	10K 5% 1/10W			4-201-023-01	SPACER, INSULATING
R1674	1-216-053-00	RES,CHIP	1.5K 5% 1/10W			4-202-373-01	SPRING, IC
R1675	1-240-265-11	CMT,MELF	2.7 5% 10W (KV-28DS60U)			4-309-378-00	WASHER
	1-240-581-11	REGISTER	0 (KV-32DS60U)			4-382-854-11	SCREW (M3X10), P, SW (+)
R1687	1-216-485-11	METAL OXIDE	5.6K 5% 3W			<CAPACITOR>	
R1688	1-240-265-11	CMT,MELF	2.7 5% 10W (KV-28DS60U)	C501	1-123-024-21	ELECT	33MF 160V
	1-240-581-11	REGISTER	0 (KV-32DS60U)				
R1692	1-216-097-91	RES,CHIP	100K 5% 1/10W				
R1695	1-216-101-00	RES,CHIP	150K 5% 1/10W				

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C502	1-136-207-11	FILM	0.047MF 10% 250V	C604	1-164-625-11	CERAMIC 680PF 10% 500V	
C503	1-128-527-11	ELECT	330MF 20% 25V	C606	Δ 1-162-599-12	CERAMIC 0.0047MF 250V	
C504	1-128-527-11	ELECT	330MF 20% 25V	C607	Δ 1-161-744-00	CERAMIC 0.01MF 400V	
C505	1-102-212-00	CERAMIC	820PF 10% 500V				(KV-32DS60U)
C507	1-162-115-00	CERAMIC	330PF 10% 2KV	C610	1-162-599-12	CERAMIC 0.0047MF 250V	
			(KV-32DS60U)	C611	Δ 1-161-744-00	CERAMIC 0.01MF 400V	
C508	1-162-116-00	CERAMIC	680PF 10% 2KV	C613	1-162-599-12	CERAMIC 0.0047MF 250V	
C509	1-162-116-00	CERAMIC	680PF 10% 2KV	C614	1-164-645-11	CERAMIC 1000PF 10% 500V	
C510	1-136-558-11	FILM	0.0039MF 10% 400V	C616	1-117-753-11	ELECT (BLOCK) 470MF 20% 450V	
C511	1-117-846-11	FILM	18000PF 3% 1.5KV	C618	1-137-194-81	FILM 0.47MF 5% 50V	
	1-113-582-11	FILM	0.017MF 3% 2KV	C619	1-117-976-11	FILM 0.039MF 5% 800V	
			(KV-32DS60U)	C620	1-136-171-00	FILM 0.33MF 5% 50V	
C512	1-129-717-00	FILM	0.018MF 5% 630V	C621	1-136-171-00	FILM 0.33MF 5% 50V	
C513	1-115-177-11	FILM	6.8MF 5% 160V	C622	1-137-194-81	FILM 0.47MF 5% 50V	
C514	1-137-043-11	FILM	0.0047MF 10% 400V	C623	1-126-968-11	ELECT 100MF 20% 50V	
C516	1-109-837-11	FILM	0.56MF 5% 400V	C625	1-128-548-11	ELECT 4700MF 20% 25V	
	1-115-517-11	FILM	0.39MF 5% 250V	C626	1-128-548-11	ELECT 4700MF 20% 25V	
			(KV-32DS60U)	C627	1-126-936-11	ELECT 3300MF 20% 16V	
C519	1-104-696-11	FILM	0.015MF 10% 250V	C628	1-126-943-11	ELECT 2200MF 20% 25V	
C521	1-102-002-00	CERAMIC	680PF 10% 500V	C629	1-110-626-11	ELECT 330MF 20% 160V	
C525	1-107-906-11	ELECT	10MF 20% 50V	C630	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C528	1-102-030-00	CERAMIC	330PF 10% 500V	C631	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C535	1-107-655-11	ELECT	47MF 20% 250V	C633	1-137-368-11	FILM 0.0047MF 5% 50V	
C536	1-102-228-00	CERAMIC	470PF 10% 500V	C634	1-106-351-00	MYLAR 0.0022MF 99% 200V	
C537	1-102-228-00	CERAMIC	470PF 10% 500V	C639	1-164-625-11	CERAMIC 680PF 10% 500V	
C538	1-102-228-00	CERAMIC	470PF 10% 500V	C640	1-137-194-81	FILM 0.47MF 5% 50V	
C541	1-106-375-12	MYLAR	0.022MF 10% 250V	C642	1-128-579-11	ELECT 2.2MF 20% 100V	
C548	1-162-131-11	CERAMIC	220PF 10% 2KV	C643	1-117-802-11	ELECT 180MF 20% 450V	
C549	1-162-129-00	CERAMIC	150PF 10% 2KV	C644	1-107-824-11	CERAMIC 220PF 5% 1KV	
C552	1-126-968-11	ELECT	100MF 20% 50V	C645	1-136-169-00	FILM 0.22MF 5% 50V	
C554	1-102-129-00	CERAMIC	0.01MF 10% 50V	C646	1-136-164-00	FILM 0.082MF 5% 50V	
C555	1-126-941-11	ELECT	470MF 20% 25V	C647	1-107-824-11	CERAMIC 220PF 5% 1KV	
C556	1-102-129-00	CERAMIC	0.01MF 10% 50V	C648	1-136-169-00	FILM 0.22MF 5% 50V	
C557	1-126-941-11	ELECT	470MF 20% 25V	C649	1-136-164-00	FILM 0.082MF 5% 50V	
C560	1-106-228-00	MYLAR	0.22MF 10% 100V	C650	1-117-631-21	FILM 3300PF 3% 1.2KV	
C561	1-106-220-00	MYLAR	0.1MF 10% 100V	C651	1-136-157-00	FILM 0.022MF 5% 50V	
C562	1-130-785-11	MYLAR	0.47MF 10% 100V	C652	1-136-165-00	FILM 0.1MF 5% 50V	
C573	1-162-115-00	CERAMIC	330PF 10% 2KV	C653	1-126-965-11	ELECT 22MF 20% 50V	
C574	1-136-347-11	FILM	0.0047MF 5% 630V	C654	1-126-967-11	ELECT 47MF 20% 50V	
	1-136-557-11	FILM	0.0033MF 5% 630V	C655	1-126-941-11	ELECT 470MF 20% 25V	
			(KV-32DS60U)	C656	1-126-967-11	ELECT 47MF 20% 50V	
C576	1-129-702-00	FILM	0.001MF 10% 400V	C657	1-126-967-11	ELECT 47MF 20% 50V	
			(KV-32DS60U)	C659	1-126-936-11	ELECT 3300MF 20% 16V	
C580	1-102-030-00	CERAMIC	330PF 10% 500V	C660	1-126-936-11	ELECT 3300MF 20% 16V	
C581	1-136-205-11	FILM	0.022MF 10% 400V	C661	1-126-935-11	ELECT 470MF 20% 16V	
C582	1-129-898-00	FILM	0.0022MF 5% 630V	C662	1-126-935-11	ELECT 470MF 20% 16V	
C583	1-130-785-11	MYLAR	0.47MF 10% 100V	C663	Δ 1-113-920-11	CERAMIC 0.0022MF 20% 250V	
C584	1-104-696-11	FILM	0.015MF 10% 250V	C664	Δ 1-113-920-11	CERAMIC 0.0022MF 20% 250V	
C601	1-126-965-11	ELECT	22MF 20% 50V	C671	1-107-906-11	ELECT 10MF 20% 50V	
C603	Δ 1-136-415-51	FILM	0.33MF 20% 300V	C672	1-136-165-00	FILM 0.1MF 5% 50V	
				C674	1-164-625-11	CERAMIC 680PF 10% 500V	

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C675	1-164-625-11	CERAMIC	680PF 10% 500V	D659	8-719-911-19	DIODE 1SS119-25	
C683	1-126-965-11	ELECT	22MF 20% 50V	D660	8-719-982-27	DIODE MTZJ-33C	
C684	1-126-940-11	ELECT	330MF 20% 25V	D661	8-719-991-33	DIODE 1SS133T-77	
C685	1-107-824-11	CERAMIC	220PF 5% 1KV	D662	8-719-991-33	DIODE 1SS133T-77	
		<CONNECTOR>		D663	8-719-991-33	DIODE 1SS133T-77	
CN502	*1-580-798-11	CONNECTOR PIN (DY) 6P		D664	8-719-911-19	DIODE 1SS119-25	
CN505	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P		D665	8-719-911-19	DIODE 1SS119-25	
CN507	1-568-878-51	PIN, CONNECTOR 3P		D667	8-719-911-19	DIODE 1SS119-25	
CN509	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		D668	8-719-109-89	DIODE RD5.6ESB2	
CN511	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P		D669	8-719-510-12	DIODE D10SC4M	
CN512	1-568-878-51	PIN, CONNECTOR 3P		D670	8-719-040-01	DIODE FMB-22H	
CN601 * Δ	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		D671	8-719-040-01	DIODE FMB-22H	
CN604 * Δ	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P				<FERRITE BEAD>	
CN605 Δ	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P (KV-32DS60U)		FB600	1-410-396-41	FERRITE 0.45UH	
CN606 Δ	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		FB601	1-410-396-41	FERRITE 0.45UH	
CN607	*1-568-881-51	PIN, CONNECTOR 6P				<IC>	
CN612	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P		IC502	8-759-192-71	IC STV9379	
		<DIODE>		IC601	8-749-010-64	PHOTO COUPLER PC123F2	
D501	8-719-987-84	DIODE ERB8-04		IC602	8-729-043-26	TRANSISTOR MX0841T-F	
D502	8-719-979-99	DIODE ERD08M-15		IC603	1-810-050-11	POWER MODULE DM-47	
D503	8-719-052-09	DIODE FMG-36S-LF024-104		IC605	8-729-045-61	TRANSISTOR MX0542AB-F	
D504	8-719-987-84	DIODE ERB8-04		IC606	8-759-908-15	IC TL431CLP	
D505	8-719-908-03	DIODE GP08D				<COIL>	
D506	8-719-908-03	DIODE GP08D		L507	1-412-524-11	INDUCTOR 8.2UH	
D510	8-719-979-85	DIODE EGP20G		L511	1-459-104-00	COIL, WITH CORE	
D511	8-719-302-43	DIODE EL1Z		L516	1-408-947-00	INDUCTOR 2.2MMH	
D512	8-719-052-90	DIODED1NL40-TA2		L521	1-416-675-21	INDUCTOR 3.3UH	
D513	8-719-052-90	DIODED1NL40-TA2		L523	1-416-447-11	COIL (WITH CORE) (PMC) (KV-28DS60U)	
D514	8-719-908-03	DIODE GP08D				1-416-448-11	COIL (WITH CORE) (PMC) (KV-32DS60U)
D516	8-719-110-41	DIODE RD15ESB2		L601	1-414-489-41	INDUCTOR 2.7UH	
D520	8-719-970-87	DIODE ERA38-06		L603	1-406-658-21	INDUCTOR 6.8UH	
D521	8-719-970-87	DIODE ERA38-06		L604	1-406-658-21	INDUCTOR 6.8UH	
D600	8-719-911-19	DIODE 1SS119-25		L605	1-414-489-41	INDUCTOR 2.7UH	
D601	8-719-510-35	DIODE 2SBA60F		L607	1-412-525-31	INDUCTOR 10UH	
D603	8-719-510-53	DIODE D4SB60L		L608	1-412-525-31	INDUCTOR 10UH	
D607	8-719-991-33	DIODE 1SS133T-77		L610	1-412-525-31	INDUCTOR 10UH	
D608	8-719-063-73	DIODED1NL20U-TR		L614	1-412-525-31	INDUCTOR 10UH	
D610	8-719-047-31	DIODE RBA-402L		L615	1-412-525-31	INDUCTOR 10UH	
D611	8-719-510-12	DIODE D10SC4M				<IC LINK>	
D612	8-719-510-12	DIODE D10SC4M		PS601 Δ	1-801-550-21	PROTECTOR MODULE 2.5A MP250	
D613	8-719-500-71	DIODE D8LC40		PS602 Δ	1-533-597-31	LINK, IC	
D614	8-719-911-19	DIODE 1SS119-25		PS603 Δ	1-801-550-21	PROTECTOR MODULE 2.5A MP250	
D615	8-719-063-73	DIODE D1NL20U-TR		PS604 Δ	1-801-550-21	PROTECTOR MODULE 2.5A MP250	
D616	8-719-063-73	DIODE D1NL20U-TR		PS605 Δ	1-801-550-21	PROTECTOR MODULE 2.5A MP250	
D617	8-719-991-33	DIODE 1SS133T-77		PS606 Δ	1-801-550-21	PROTECTOR MODULE 2.5A MP250	
D618	8-719-911-19	DIODE 1SS119-25		PS607 Δ	1-532-637-11	LINK, IC 1A ICP-F25	
D619	8-719-110-57	DIODE RD22ESB2		PS608 Δ	1-801-549-21	PROTECTOR MODULE	
D620	8-719-160-65	DIODE RD16FB2					
D621	8-719-991-33	DIODE 1SS133T-77					

D

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
<TRANSISTOR>				R602	1-217-418-00	FUSIBLE	0.47 10% 1/2W F
Q501	8-729-119-80	TRANSISTOR 2SC2688-LK		R603	1-260-127-11	CARBON	220K 5% 1/2W
Q502	8-729-821-07	TRANSISTOR 2SC3997CA		R604	1-260-127-11	CARBON	220K 5% 1/2W
Q504	8-729-039-68	TRANSISTOR IRF620		R605	1-249-391-11	CARBON	6.8 5% 1/4W
Q505	8-729-043-95	TRANSISTOR 2SC3840(3)		R607	1-260-127-11	CARBON	220K 5% 1/2W
Q601	8-729-026-39	TRANSISTOR 2SA933AS-QT		R608	1-260-127-11	CARBON	220K 5% 1/2W
Q609	8-729-029-56	TRANSISTOR DTA144ESA		R609	1-249-417-11	CARBON	1K 5% 1/4W F
Q611	8-729-029-56	TRANSISTOR DTA144ESA		R610	1-260-129-11	CARBON	330K 5% 1/2W
Q612	8-729-119-78	TRANSISTOR 2SC2785-HFE		R611	1-260-129-11	CARBON	330K 5% 1/2W
Q614	8-729-026-39	TRANSISTOR 2SA933AS-QT		R612	1-216-369-00	METAL OXIDE	1 5% 2W F
Q615	8-729-119-78	TRANSISTOR 2SC2785-HFE		R613	1-207-905-00	WIREWOUND	0.27 10% 2W F
Q619	8-729-119-78	TRANSISTOR 2SC2785-HFE		R614	1-260-129-11	CARBON	330K 5% 1/2W
<RESISTOR>				R615	1-260-129-11	CARBON	330K 5% 1/2W
R503	1-216-481-11	METAL OXIDE	1.2K 5% 3W F	R616	1-216-369-00	METAL OXIDE	1 5% 2W F
R505	1-216-487-11	METAL OXIDE	12K 5% 3W F	R624	1-247-895-91	CARBON	470K 5% 1/4W
R506	1-249-411-11	CARBON	330 5% 1/4W	R626	1-249-429-11	CARBON	10K 5% 1/4W
R507	1-247-843-11	CARBON	3.3K 5% 1/4W	R629	1-249-425-11	CARBON	4.7K 5% 1/4W
R509	1-215-905-11	METAL OXIDE	10 5% 3W F	R634	1-215-479-00	METAL	270K 1% 1/4W
R510	1-215-911-11	METAL OXIDE	100 5% 3W F	R638	1-215-927-00	METAL OXIDE	47K 5% 3W F
R511	1-216-434-11	METAL OXIDE	1.8K 5% 1W F	R639	1-249-429-11	CARBON	10K 5% 1/4W
R517	1-202-972-61	FUSIBLE	1 5% 1/4W F	R640	1-202-933-61	FUSIBLE	0.1 10% 1/2W F
R518	1-249-377-11	CARBON	0.47 5% 1/4W F	R642	1-249-429-11	CARBON	10K 5% 1/4W
R519	1-260-288-11	CARBON	0.47 5% 1/2W	R643	1-249-443-11	CARBON	0.47 5% 1/4W F
R520	1-214-907-00	METAL	56K 1% 1/2W	R645	1-249-393-11	CARBON	10 5% 1/4W F
R533	1-249-417-11	CARBON	1K 5% 1/4W	R647	1-249-391-11	CARBON	6.8 5% 1/4W
R534	1-249-441-11	CARBON	100K 5% 1/4W	R648	1-249-437-11	CARBON	47K 5% 1/4W
R535	1-249-441-11	CARBON	100K 5% 1/4W	R649	1-215-429-00	METAL	2.2K 1% 1/4W
R536	1-249-441-11	CARBON	100K 5% 1/4W	R650	1-249-425-11	CARBON	4.7K 5% 1/4W
R543	1-215-894-11	METAL OXIDE	2.2K 5% 2W F	R651	1-215-927-00	METAL OXIDE	47K 5% 3W F
R544	1-249-424-11	CARBON	3.9K 5% 1/4W	R657	1-260-127-11	CARBON	220K 5% 1/2W
R545	1-247-881-00	CARBON	120K 5% 1/4W	R658	1-249-416-11	CARBON	820 5% 1/4W
R550	1-249-383-11	CARBON	1.5 5% 1/4W F	R659	1-260-131-11	CARBON	470K 5% 1/2W
R554	1-215-449-00	METAL	15K 1% 1/4W	R660	1-249-429-11	CARBON	10K 5% 1/4W
R555	1-214-798-21	METAL	1.8 1% 1/2W	R662	1-249-410-11	CARBON	270 5% 1/4W
R557	1-215-894-11	METAL OXIDE	2.2K 5% 2W F	R663	1-215-926-00	METAL OXIDE	33K 5% 3W F
R559	1-215-438-00	METAL	5.1K 1% 1/4W	R673	1-249-417-11	CARBON	1K 5% 1/4W
R560	1-247-843-11	CARBON	3.3K 5% 1/4W	R674	1-249-417-11	CARBON	1K 5% 1/4W
R561	1-215-373-31	METAL	10 1% 1/4W	R677	1-249-436-11	CARBON	39K 5% 1/4W
R562	1-249-383-11	CARBON	1.5 5% 1/4W F	R678	1-215-859-00	METAL OXIDE	22 5% 1W F
R563	1-215-888-00	METAL OXIDE	220 5% 2W F	R679	1-215-859-00	METAL OXIDE	22 5% 1W F
R565	1-215-449-00	METAL	15K 1% 1/4W	R680	1-249-417-11	CARBON	1K 5% 1/4W
R566	1-215-438-00	METAL	5.1K 1% 1/4W	R681	1-215-428-00	METAL	2K 1% 1/4W
R567	1-214-798-21	METAL	1.8 1% 1/2W	R682	1-249-430-11	CARBON	12K 5% 1/4W
R568	1-249-418-11	CARBON	1.2K 5% 1/4W	R683	1-249-417-11	CARBON	1K 5% 1/4W F
R571	1-215-917-11	METAL OXIDE	1K 5% 3W (KV-28DS60U)	R685	1-249-429-11	CARBON	10K 5% 1/4W
	1-216-481-11	METAL OXIDE	1.2K 5% 3W (KV-32DS60U)	R686	1-249-377-11	CARBON	0.47 5% 1/4W F
				R687	1-249-417-11	CARBON	1K 5% 1/4W
				R689	1-249-429-11	CARBON	10K 5% 1/4W
				R690	1-247-807-31	CARBON	100 5% 1/4W

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
<RELAY>				<DIODE>			
RY600	Δ 1-755-178-11	RELAY, AC POWER		D1701	8-719-991-33	DIODE 1SS133T-77	
RY601	Δ 1-755-018-11	RELAY		D1702	8-719-510-02	DIODE DINS4	
<TRANSFORMER>				D1703	8-719-991-33	DIODE 1SS133T-77	
T501	1-427-762-11	TRANSFORMER, FERRITE (HDT)		D1704	8-719-991-33	DIODE 1SS133T-77	
T504	1-431-599-11	TRANSFORMER, HORIZONTAL LINEAR (KV-28DS60U)		D1705	8-719-991-33	DIODE 1SS133T-77	
	1-431-600-11	TRANSFORMER, HORIZONTAL LINEAR (KV-32DS60U)		D1706	8-719-924-11	DIODE MTZJ-T-77-22	
T505	Δ X-4560-138-1	FBT ASSY, NX-4602/J1B4		D1707	8-719-924-11	DIODE MTZJ-T-77-22	
T507	1-426-896-11	TRANSFORMER, FERRITE (DFT)		<FERRITE BEAD>			
T600	Δ 1-431-616-11	TRANSFORMER, CONVERTER		FB1701	1-410-396-41	FERRITE	0.45UH
T601	Δ 1-433-491-11	TRANSFORMER, CONVERTER (PIT)		FB1702	1-410-397-21	FERRITE	1.1UH
T602	Δ 1-431-616-11	TRANSFORMER, CONVERTER		<TRANSISTOR>			
T603	Δ 1-433-490-11	TRANSFORMER, CONVERTER (PIT)		Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<THERMISTOR>				Q1702	8-729-119-78	TRANSISTOR 2SC2785-HFE	
TH501	1-800-193-00	THERMISTOR		Q1703	8-729-119-78	TRANSISTOR 2SC2785-HFE	
THP600	Δ 1-809-827-11	THERMISTOR, POSITIVE		Q1704	8-729-026-39	TRANSISTOR 2SA933AS-QT	
*****				Q1705	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	*A-1644-092-A	VM BOARD, COMPLETE		Q1706	8-729-026-39	TRANSISTOR 2SA933AS-QT	
		*****		Q1707	8-729-017-05	TRANSISTOR 2SA1837	
	4-382-854-11	SCREW (M3X10), P, SW (+)		Q1708	8-729-017-06	TRANSISTOR 2SC4793	
<CAPACITOR>				<RESISTOR>			
C1701	1-107-883-11	ELECT	330MF 20% 16V	R1701	1-249-401-11	CARBON	47 5% 1/4W
C1702	1-137-370-11	FILM	0.01MF 5% 50V	R1702	1-249-421-11	CARBON	2.2K 5% 1/4W
C1703	1-126-935-11	ELECT	470MF 20% 16V	R1704	1-249-425-11	CARBON	4.7K 5% 1/4W
C1704	1-126-935-11	ELECT	470MF 20% 6.3V	R1705	1-249-413-11	CARBON	470 5% 1/4W
C1706	1-126-933-11	ELECT	100MF 20% 16V	R1706	1-249-393-11	CARBON	10 5% 1/4W F
C1707	1-126-935-11	ELECT	470MF 20% 6.3V	R1707	1-249-399-11	CARBON	33 5% 1/4W
C1708	1-104-989-91	FILM	0.0022MF 5% 200V	R1708	1-247-807-31	CARBON	100 5% 1/4W
C1709	1-104-989-91	FILM	0.0022MF 5% 200V	R1709	1-249-417-11	CARBON	1K 5% 1/4W
C1710	1-107-649-11	ELECT	2.2MF 20% 250V	R1710	1-247-815-91	CARBON	220 5% 1/4W
C1711	1-130-471-00	FILM	0.001MF 5% 50V	R1711	1-249-401-11	CARBON	47 5% 1/4W
C1712	1-130-471-00	FILM	0.001MF 5% 50V	R1712	1-249-401-11	CARBON	47 5% 1/4W
C1713	1-126-933-11	ELECT	100MF 20% 16V	R1713	1-249-429-11	CARBON	10K 5% 1/4W
C1714	1-107-363-91	FILM	0.0068MF 10% 200V	R1714	1-249-414-11	CARBON	560 5% 1/4W F
C1715	1-126-933-11	ELECT	100MF 20% 16V	R1715	1-249-432-11	CARBON	18K 5% 1/4W
C1717	1-162-117-00	CERAMIC	100PF 10% 500V	R1716	1-249-432-11	CARBON	18K 5% 1/4W
C1718	1-102-106-00	CERAMIC	100PF 10% 50V	R1717	1-249-414-11	CARBON	560 5% 1/4W
C1719	1-101-880-00	CERAMIC	47PF 5% 50V	R1718	1-249-421-11	CARBON	2.2K 5% 1/4W
C1720	1-107-652-11	ELECT	10MF 20% 200V	R1719	1-249-421-11	CARBON	2.2K 5% 1/4W
<CONNECTOR>				R1720	1-260-311-11	CARBON	39 5% 1/2W
CN1701	*1-568-878-51	PIN, CONNECTOR 3P		R1721	1-249-383-11	CARBON	1.5 5% 1/4W F
CN1702	*1-564-511-11	PLUG, CONNECTOR 8P		R1722	1-249-383-11	CARBON	1.5 5% 1/4W F
CN1703	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P		R1723	1-249-400-11	CARBON	39 5% 1/4W F
CN1705	1-695-915-11	TAB (CONTACT)		R1724	1-215-914-11	METAL OXIDE	330 5% 3W F
				R1725	1-249-419-11	CARBON	1.5K 5% 1/4W
*****				*****			



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
*A-1646-163-A H BOARD, COMPLETE *****				C3213	1-104-664-11	ELECT 47MF	20% 25V
<CAPACITOR>				C3215	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C908	1-137-372-11	FILM 0.022MF	5% 50V	C3216	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C909	1-137-372-11	FILM 0.022MF	5% 50V	C3217	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C936	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C3218	1-126-933-11	ELECT 100MF	20% 16V
C937	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C3219	1-104-664-11	ELECT 47MF	20% 25V
C938	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C3220	1-126-933-11	ELECT 100MF	20% 16V
<CONNECTOR>				C3221	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
CN902	*1-564-507-11	PLUG, CONNECTOR 4P		C3222	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
CN903	*1-568-882-51	PIN, CONNECTOR 7P		C3224	1-126-933-11	ELECT 100MF	20% 16V
CN905	*1-564-518-11	PLUG, CONNECTOR 3P		C3225	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
<DIODE>				C3226	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
D901	8-719-108-12	DIODE RD9.1EW		C3228	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
D902	8-719-108-12	DIODE RD9.1EW		C3229	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
D903	8-719-108-12	DIODE RD9.1EW		C3230	1-136-161-00	FILM 0.047MF	5% 50V
D904	8-719-108-12	DIODE RD9.1EW		C3231	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
<JACK>				C3232	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
J901	1-764-606-11	JACK		C3233	1-104-664-11	ELECT 47MF	20% 25V
J902	1-779-947-11	TERMINAL BLOCK, S		C3234	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
<COIL>				C3235	1-216-067-00	RES,CHIP 5.6K 5%	1/10W
L901	1-408-603-31	INDUCTOR 10UH		C3236	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
L902	1-408-603-31	INDUCTOR 10UH		C3237	1-104-664-11	ELECT 47MF	20% 25V
L903	1-408-603-31	INDUCTOR 10UH		C3238	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
L904	1-408-603-31	INDUCTOR 10UH		C3239	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
<RESISTOR>				C3240	1-164-346-11	CERAMIC CHIP 1MF	16V
R911	1-247-895-91	CARBON 470K 5%	1/4W	C3241	1-104-664-11	ELECT 47MF	20% 25V
R912	1-247-895-91	CARBON 470K 5%	1/4W	C3242	1-164-346-11	CERAMIC CHIP 1MF	16V
*****				C3243	1-104-664-11	ELECT 47MF	20% 25V
*A-1651-096-A J BOARD, COMPLETE *****				C3244	1-126-933-11	ELECT 100MF	20% 16V
<CAPACITOR>				C3245	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C3201	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C3246	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3202	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C3247	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3203	1-104-664-11	ELECT 47MF	20% 25V	C3248	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C3204	1-104-664-11	ELECT 47MF	20% 25V	C3249	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3205	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C3250	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3206	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3251	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3207	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C3252	1-104-664-11	ELECT 47MF	20% 25V
C3208	1-104-664-11	ELECT 47MF	20% 25V	C3253	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3209	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3254	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3210	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C3255	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C3211	1-104-664-11	ELECT 47MF	20% 25V	C3256	1-104-664-11	ELECT 47MF	20% 25V
				C3259	1-104-664-11	ELECT 47MF	20% 25V
				C3261	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
				C3264	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
				C3265	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
				C3266	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
				C3270	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
				C3271	1-104-664-11	ELECT 47MF	20% 25V
				C3277	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
				C3279	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
				C3280	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C3281	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	D4234	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C3283	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D4235	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C3284	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V			<IC>	
C3285	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	IC4201	8-759-330-93	IC TDA7309	
C3287	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC4202	8-759-545-66	IC NJM3414AMP (TE2)	
C3288	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	IC4203	8-752-082-87	IC CXA1845Q-TL	
C3289	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V			<JACK>	
C3291	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	J4201	1-561-534-41	SOCKET, PIN 21P	
C3292	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	J4203	1-695-293-11	SOCKET 21P	
C3309	1-104-664-11	ELECT 47MF	20% 25V	J4204	1-695-293-11	SOCKET 21P	
		<CONNECTOR>		J4207	1-537-979-11	TERMINAL BOARD	
CN4201	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		J4208	1-537-978-11	TERMINAL BOARD	
CN4202	*1-564-522-11	PLUG, CONNECTOR 7P				<COIL>	
CN4205	*1-564-519-11	PLUG, CONNECTOR 4P		L4201	1-408-615-31	INDUCTOR 100UH	
CN4206	*1-564-507-11	PLUG, CONNECTOR 4P		L4202	1-408-615-31	INDUCTOR 100UH	
CN4207	*1-564-521-11	PLUG, CONNECTOR 6P		L4203	1-408-615-31	INDUCTOR 100UH	
CN4208	*1-564-518-11	PLUG, CONNECTOR 3P		L4207	1-402-711-11	INDUCTOR 1UH	
CN4209	*1-564-507-11	PLUG, CONNECTOR 4P		L4208	1-402-711-11	INDUCTOR 1UH	
CN4210	*1-564-518-11	PLUG, CONNECTOR 3P		L4210	1-402-711-11	INDUCTOR 1UH	
		<DIODE>		L4212	1-402-711-11	INDUCTOR 1UH	
D4201	8-719-923-60	DIODE MTZJ-T-77-9.1A				<TRANSISTOR>	
D4202	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q4204	8-729-620-06	TRANSISTOR 2SC3052-EF	
D4203	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q4205	8-729-620-06	TRANSISTOR 2SC3052-EF	
D4204	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q4206	8-729-620-06	TRANSISTOR 2SC3052-EF	
D4205	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q4207	8-729-620-06	TRANSISTOR 2SC3052-EF	
D4206	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q4208	8-729-620-06	TRANSISTOR 2SC3052-EF	
D4207	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q4209	8-729-620-06	TRANSISTOR 2SC3052-EF	
D4208	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q4210	8-729-216-22	TRANSISTOR 2SA1162-G	
D4209	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q4214	8-729-620-06	TRANSISTOR 2SC3052-EF	
D4210	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q4217	8-729-620-06	TRANSISTOR 2SC3052-EF	
D4211	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q4218	8-729-620-06	TRANSISTOR 2SC3052-EF	
D4212	8-719-923-60	DIODE MTZJ-T-77-9.1A		Q4219	8-729-620-06	TRANSISTOR 2SC3052-EF	
D4213	8-719-923-60	DIODE MTZJ-T-77-9.1A				<RESISTOR>	
D4214	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR4205	1-216-296-91	SHORT 0	
D4215	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR4207	1-216-296-91	SHORT 0	
D4216	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR4209	1-216-296-91	SHORT 0	
D4217	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR4210	1-216-295-91	SHORT 0	
D4218	8-719-923-60	DIODE MTZJ-T-77-9.1A		JR7101	1-216-295-91	SHORT 0	
D4220	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4201	1-216-071-00	RES,CHIP 8.2K 5% 1/10W	
D4222	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4202	1-216-073-00	RES,CHIP 10K 5% 1/10W	
D4223	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4203	1-216-049-91	RES,CHIP 1K 5% 1/10W	
D4224	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4204	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
D4225	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4205	1-216-113-00	RES,CHIP 470K 5% 1/10W	
D4226	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4206	1-216-022-00	RES,CHIP 75 5% 1/10W	
D4227	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4207	1-216-022-00	RES,CHIP 75 5% 1/10W	
D4228	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4208	1-216-022-00	RES,CHIP 75 5% 1/10W	
D4229	8-719-923-60	DIODE MTZJ-T-77-9.1A					
D4230	8-719-923-60	DIODE MTZJ-T-77-9.1A					
D4232	8-719-923-60	DIODE MTZJ-T-77-9.1A					
D4233	8-719-923-60	DIODE MTZJ-T-77-9.1A					

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REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
R4209	1-216-022-00	RES,CHIP	75 5% 1/10W	R4270	1-216-113-00	RES,CHIP	470K 5% 1/10W
R4210	1-216-022-00	RES,CHIP	75 5% 1/10W	R4271	1-216-073-00	RES,CHIP	10K 5% 1/10W
R4211	1-216-022-00	RES,CHIP	75 5% 1/10W	R4272	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R4212	1-216-033-00	RES,CHIP	220 5% 1/10W	R4273	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4213	1-216-295-91	SHORT	0	R4274	1-216-113-00	RES,CHIP	470K 5% 1/10W
R4214	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R4275	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4215	1-216-113-00	RES,CHIP	470K 5% 1/10W	R4276	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4216	1-216-089-91	RES,CHIP	47K 5% 1/10W	R4277	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R4217	1-216-049-91	RES,CHIP	1K 5% 1/10W	R4278	1-216-033-00	RES,CHIP	220 5% 1/10W
R4218	1-216-033-00	RES,CHIP	220 5% 1/10W	R4279	1-216-089-91	RES,CHIP	47K 5% 1/10W
R4219	1-216-295-91	SHORT	0	R4280	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4220	1-216-089-91	RES,CHIP	47K 5% 1/10W	R4281	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4221	1-216-009-91	RES,CHIP	22 5% 1/10W	R4282	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R4222	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4283	1-216-033-00	RES,CHIP	220 5% 1/10W
R4223	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R4284	1-216-089-91	RES,CHIP	47K 5% 1/10W
R4224	1-216-022-00	RES,CHIP	75 5% 1/10W	R4285	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4225	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R4286	1-216-295-91	SHORT	0
R4226	1-216-022-00	RES,CHIP	75 5% 1/10W	R4287	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4227	1-216-041-00	RES,CHIP	470 5% 1/10W	R4288	1-216-295-91	SHORT	0
R4228	1-216-041-00	RES,CHIP	470 5% 1/10W	R4290	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R4229	1-216-113-00	RES,CHIP	470K 5% 1/10W	R4291	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4231	1-216-022-00	RES,CHIP	75 5% 1/10W	R4292	1-216-295-91	SHORT	0
R4232	1-216-295-91	SHORT	0	R4293	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4233	1-216-025-91	RES,CHIP	100 5% 1/10W	R4295	1-216-009-91	RES,CHIP	22 5% 1/10W
R4235	1-216-049-91	RES,CHIP	1K 5% 1/10W	R4296	1-216-022-00	RES,CHIP	75 5% 1/10W
R4236	1-216-295-91	SHORT	0	R4297	1-216-113-00	RES,CHIP	470K 5% 1/10W
R4239	1-216-033-00	RES,CHIP	220 5% 1/10W	R4298	1-216-022-00	RES,CHIP	75 5% 1/10W
R4240	1-216-089-91	RES,CHIP	47K 5% 1/10W	R4304	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4242	1-216-033-00	RES,CHIP	220 5% 1/10W	R4305	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R4243	1-216-089-91	RES,CHIP	47K 5% 1/10W	R4307	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4244	1-216-025-91	RES,CHIP	100 5% 1/10W	R4308	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R4245	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4309	1-216-113-00	RES,CHIP	470K 5% 1/10W
R4246	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4317	1-216-009-91	RES,CHIP	22 5% 1/10W
R4247	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4319	1-216-295-91	SHORT	0
R4248	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R4320	1-216-295-91	SHORT	0
R4249	1-216-113-00	RES,CHIP	470K 5% 1/10W	R4322	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4251	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4337	1-216-033-00	RES,CHIP	220 5% 1/10W
R4252	1-216-025-91	RES,CHIP	100 5% 1/10W	R4341	1-216-033-00	RES,CHIP	220 5% 1/10W
R4253	1-216-025-91	RES,CHIP	100 5% 1/10W	R4376	1-216-295-91	SHORT	0
R4254	1-216-049-91	RES,CHIP	1K 5% 1/10W	R4377	1-216-295-91	SHORT	0
R4255	1-216-081-00	RES,CHIP	22K 5% 1/10W	R4379	1-216-081-00	RES,CHIP	22K 5% 1/10W
R4256	1-216-081-00	RES,CHIP	22K 5% 1/10W	R4380	1-216-081-00	RES,CHIP	22K 5% 1/10W
R4257	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4381	1-216-101-00	RES,CHIP	150K 5% 1/10W
R4258	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4382	1-216-101-00	RES,CHIP	150K 5% 1/10W
R4259	1-216-073-00	RES,CHIP	10K 5% 1/10W	R4383	1-216-049-91	RES,CHIP	1K 5% 1/10W
R4260	1-216-022-00	RES,CHIP	75 5% 1/10W	R4389	1-216-097-91	RES,CHIP	100K 5% 1/10W
R4261	1-216-022-00	RES,CHIP	75 5% 1/10W	R4390	1-216-097-91	RES,CHIP	100K 5% 1/10W
R4264	1-216-295-91	SHORT	0	R4393	1-216-295-91	SHORT	0
R4265	1-216-022-00	RES,CHIP	75 5% 1/10W	R4394	1-216-295-91	SHORT	0
R4268	1-216-295-91	SHORT	0	R4395	1-216-295-91	SHORT	0
R4269	1-216-295-91	SHORT	0	R4396	1-216-025-91	RES,CHIP	100 5% 1/10W

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R4397	1-216-025-91	RES,CHIP 100 5%	1/10W	C3209	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R4398	1-216-025-91	RES,CHIP 100 5%	1/10W	C3210	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
R4399	1-216-025-91	RES,CHIP 100 5%	1/10W	C3211	1-126-964-11	ELECT 10MF	20% 50V
R4400	1-216-049-91	RES,CHIP 1K 5%	1/10W	C3212	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
R4401	1-216-049-91	RES,CHIP 1K 5%	1/10W	C3213	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
*****				C3214	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
*A-1654-030-A N BOARD, COMPLETE				C3215	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
*****				C3216	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
<CAPACITOR>				C3217	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3101	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3218	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3102	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3219	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3103	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C3220	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C3104	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3221	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C3105	1-126-964-11	ELECT 10MF	20% 50V	C3222	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3106	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3223	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3107	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3224	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3109	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C3225	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C3110	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3226	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3111	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C3227	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3112	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3228	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3113	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3229	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C3114	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3230	1-107-888-11	ELECT 47MF	20% 25V
C3115	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C3231	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3116	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3232	1-107-888-11	ELECT 47MF	20% 25V
C3118	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3233	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C3121	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3305	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3122	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3308	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3123	1-126-964-11	ELECT 10MF	20% 50V	C3311	1-107-888-11	ELECT 47MF	20% 25V
C3124	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3315	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3128	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C3318	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3129	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3319	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C3130	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3320	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3131	1-163-263-11	CERAMIC CHIP 330PF	5% 50V	C3323	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3132	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3324	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3134	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3325	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3138	1-107-888-11	ELECT 47MF	20% 25V	C3326	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C3139	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3327	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C3140	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3328	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3141	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3329	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3142	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3330	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3143	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3331	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3201	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3332	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C3202	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3333	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3203	1-126-964-11	ELECT 10MF	20% 50V	C3334	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3204	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3336	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3205	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3337	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3206	1-126-964-11	ELECT 10MF	20% 50V	C3339	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3207	1-126-964-11	ELECT 10MF	20% 50V	C3340	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C3208	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C3341	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
				C3342	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
				C3343	1-163-263-11	CERAMIC CHIP 330PF	5% 50V



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

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C3344	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3102	*1-564-510-11	PLUG, CONNECTOR 7P	
C3345	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3301	1-563-486-11	SOCKET, CONNECTOR	
C3346	1-107-888-11	ELECT 47MF	20% 25V	C3302	*1-565-186-11	PIN, CONNECTOR (PC BOARD) 26P	
C3347	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3303	*1-564-510-11	PLUG, CONNECTOR 7P	
C3401	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C3401	1-785-770-11	CONNECTOR, PCMCIA	
C3402	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V			<DIODE>	
C3412	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	D3305	8-719-914-43	DIODE DAN202K	
C3413	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	D3306	8-719-421-59	DIODE MA3130WA-TX	
C3414	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	D3307	8-719-421-59	DIODE MA3130WA-TX	
C3415	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	D3308	8-719-421-59	DIODE MA3130WA-TX	
C3416	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	D3309	8-719-421-59	DIODE MA3130WA-TX	
C3417	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V			<FUSE>	
C3418	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	F3301	Δ 1-533-900-21	FUSE	
C3419	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V			<FILTER>	
C3420	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	FL3101	1-239-899-21	FILTER, CHIP EMI	
C3421	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	FL3102	1-239-899-21	FILTER, CHIP EMI	
C3422	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL3107	1-239-899-21	FILTER, CHIP EMI	
C3425	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	FL3108	1-239-899-21	FILTER, CHIP EMI	
		<FILTER>		FL3109	1-239-558-11	FILTER, CHIP EMI	
CF3101	1-543-948-11	FERRITE 0UH		FL3110	1-239-558-11	FILTER, CHIP EMI	
CF3102	1-543-948-11	FERRITE 0UH		FL3111	1-239-558-11	FILTER, CHIP EMI	
CF3104	1-543-948-11	FERRITE 0UH		FL3112	1-239-558-11	FILTER, CHIP EMI	
CF3106	1-216-295-91	SHORT 0		FL3113	1-239-558-11	FILTER, CHIP EMI	
CF3108	1-543-948-11	FERRITE 0UH		FL3114	1-239-558-11	FILTER, CHIP EMI	
CF3109	1-543-948-11	FERRITE 0UH		FL3201	1-239-899-21	FILTER, CHIP EMI	
CF3110	1-543-948-11	FERRITE 0UH		FL3203	1-239-899-21	FILTER, CHIP EMI	
CF3111	1-543-948-11	FERRITE 0UH		FL3206	1-239-899-21	FILTER, CHIP EMI	
CF3112	1-543-948-11	FERRITE 0UH		FL3301	1-239-899-21	FILTER, CHIP EMI	
CF3113	1-543-948-11	FERRITE 0UH		FL3302	1-239-899-21	FILTER, CHIP EMI	
CF3114	1-543-948-11	FERRITE 0UH		FL3307	1-239-899-21	FILTER, CHIP EMI	
CF3115	1-543-948-11	FERRITE 0UH		FL3309	1-239-899-21	FILTER, CHIP EMI	
CF3116	1-500-245-11	FERRITE 0UH		FL3310	1-239-899-21	FILTER, CHIP EMI	
CF3117	1-500-245-11	FERRITE 0UH		FL3311	1-239-899-21	FILTER, CHIP EMI	
CF3123	1-500-245-11	FERRITE 0UH		FL3401	1-239-899-21	FILTER, CHIP EMI	
CF3124	1-500-245-11	FERRITE 0UH		FL3402	1-239-899-21	FILTER, CHIP EMI	
CF3201	1-500-245-11	FERRITE 0UH		FL3403	1-239-899-21	FILTER, CHIP EMI	
CF3202	1-500-245-11	FERRITE 0UH				<IC>	
CF3203	1-500-245-11	FERRITE 0UH		IC3101	8-759-398-17	IC MC74HC04ADR2	
CF3301	1-414-232-22	INDUCTOR CHIP 0UH		IC3102	8-759-560-76	IC 74LV08D-118	
CF3302	1-414-232-22	INDUCTOR CHIP 0UH		IC3103	8-759-538-23	IC AVIA-GTX	
CF3303	1-414-232-22	INDUCTOR CHIP 0UH		IC3112	8-759-378-26	IC ST24C16FM6-TR	
CF3304	1-414-232-22	INDUCTOR CHIP 0UH		IC3113	8-759-560-78	IC KM416V1204BT-6	
CF3305	1-414-232-22	INDUCTOR CHIP 0UH		IC3114	8-759-560-78	IC KM416V1204BT-6	
CF3306	1-414-232-22	INDUCTOR CHIP 0UH		IC3115	8-759-271-86	IC TC7SH04FU	
CF3307	1-414-232-22	INDUCTOR CHIP 0UH		IC3117	8-759-394-05	IC TC7SH08F-TE85R	
CF3308	1-414-232-22	INDUCTOR CHIP 0UH		IC3119	8-759-542-07	IC 74LV244D-118	
CF3309	1-500-245-11	FERRITE 0UH		IC3120	8-759-394-05	IC TC7SH08F-TE85R	
		<CONNECTOR>					
C3101	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P					



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
IC3121	8-759-394-05	IC TC7SH08F-TE85R		<RESISTOR>			
IC3122	8-759-394-05	IC TC7SH08F-TE85R		R3102	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3123	8-759-271-86	IC TC7SH04FU		R3103	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3201	8-759-701-39	IC NJM3404AM		R3105	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3202	8-759-485-02	IC SAA7120H/V1		R3107	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3203	8-759-491-20	IC PCM1725U		R3108	1-216-073-00	RES,CHIP 10K 5%	1/10W
IC3204	8-759-492-07	IC 74LV86D-118		R3109	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC3205	8-759-560-24	IC SAA7201-C2D		R3110	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC3206	8-759-492-08	IC 74LV164D-118		R3111	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC3207	8-759-470-99	IC TMS62612-12DGE		R3112	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3208	8-759-991-41	IC LM78L05ACZ		R3113	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3209	8-759-394-05	IC TC7SH08F-TE85R		R3114	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC3301	8-759-342-60	IC PST575DMT-T1		R3115	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC3304	8-759-560-78	IC KM416V1204BT-6		R3116	1-216-295-91	SHORT 0	
IC3307	8-759-560-78	IC KM416V1204BT-6		R3117	1-216-295-91	SHORT 0	
IC3308	8-759-539-09	IC MCF5206EFT25		R3120	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3309	8-759-561-60	IC MBM29LV160B-90PTFN		R3121	1-216-017-91	RES,CHIP 47 5%	1/10W
IC3310	8-759-561-60	IC MBM29LV160B-90PTFN		R3122	1-216-017-91	RES,CHIP 47 5%	1/10W
IC3312	8-759-542-03	IC 74LV11D-118		R3124	1-216-017-91	RES,CHIP 47 5%	1/10W
IC3313	8-759-492-09	IC 74LV00D-118		R3125	1-216-295-91	SHORT 0	
IC3315	8-759-577-89	IC 74LV273D-118		R3126	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC3316	8-759-542-08	IC 74LV373D-118		R3128	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
IC3317	8-759-542-07	IC 74LV244D-118		R3129	1-216-295-91	SHORT 0	
IC3318	8-759-560-75	IC 74LV157D-118		R3130	1-216-295-91	SHORT 0	
IC3320	8-759-492-09	IC 74LV00D-118		R3132	1-216-017-91	RES,CHIP 47 5%	1/10W
IC3321	8-759-271-86	IC TC7SH04FU		R3133	1-216-017-91	RES,CHIP 47 5%	1/10W
IC3402	8-759-542-07	IC 74LV244D-118		R3134	1-216-017-91	RES,CHIP 47 5%	1/10W
IC3403	8-759-542-06	IC 74LV245D-118		R3135	1-216-017-91	RES,CHIP 47 5%	1/10W
IC3404	8-759-542-07	IC 74LV244D-118		R3136	1-216-295-91	SHORT 0	
IC3405	8-759-542-07	IC 74LV244D-118		R3139	1-216-295-91	SHORT 0	
IC3406	8-752-394-14	IC CXD1957Q-TL		R3141	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3407	8-759-542-07	IC 74LV244D-118		R3142	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3408	8-759-542-07	IC 74LV244D-118		R3143	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3409	8-759-542-07	IC 74LV244D-118		R3144	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3410	8-759-542-07	IC 74LV244D-118		R3145	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3411	8-759-542-07	IC 74LV244D-118		R3146	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3412	8-759-346-63	IC MIC2560-0BWM-T&R		R3147	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3413	8-759-271-86	IC TC7SH04FU		R3148	1-216-025-91	RES,CHIP 100 5%	1/10W
IC3416	8-759-234-77	IC TC4S66F		R3149	1-216-025-91	RES,CHIP 100 5%	1/10W
		<TRANSISTOR>		R3150	1-216-025-91	RES,CHIP 100 5%	1/10W
Q3101	1-801-806-11	TRANSISTOR DTC144EKA-T146		R3151	1-216-017-91	RES,CHIP 47 5%	1/10W
Q3201	8-729-620-06	TRANSISTOR 2SC3052-EF		R3152	1-216-025-91	RES,CHIP 100 5%	1/10W
Q3202	8-729-216-22	TRANSISTOR 2SA1162-G		R3153	1-216-025-91	RES,CHIP 100 5%	1/10W
Q3301	8-729-106-60	TRANSISTOR 2SB1115A-YQ		R3154	1-216-025-91	RES,CHIP 100 5%	1/10W
Q3302	1-801-806-11	TRANSISTOR DTC144EKA-T146		R3155	1-216-025-91	RES,CHIP 100 5%	1/10W
Q3303	1-801-806-11	TRANSISTOR DTC144EKA-T146		R3156	1-216-025-91	RES,CHIP 100 5%	1/10W
Q3401	1-801-806-11	TRANSISTOR DTC144EKA-T146		R3157	1-216-025-91	RES,CHIP 100 5%	1/10W
Q3402	1-801-806-11	TRANSISTOR DTC144EKA-T146		R3158	1-216-025-91	RES,CHIP 100 5%	1/10W
				R3159	1-216-025-91	RES,CHIP 100 5%	1/10W
				R3160	1-216-025-91	RES,CHIP 100 5%	1/10W
				R3161	1-216-025-91	RES,CHIP 100 5%	1/10W



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R3201	1-216-683-11	METAL CHIP	22K 0.50% 1/10W	R3313	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3202	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R3315	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3203	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R3327	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3204	1-216-683-11	METAL CHIP	22K 0.50% 1/10W	R3328	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3205	1-216-043-91	RES,CHIP	560 5% 1/10W	R3329	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3206	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R3330	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3207	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3331	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3208	1-216-689-11	RES,CHIP	39K 5% 1/10W	R3332	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3209	1-216-689-11	RES,CHIP	39K 5% 1/10W	R3333	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3210	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R3338	1-216-295-91	SHORT	0
R3211	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3339	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3212	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R3340	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3213	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R3341	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3214	1-216-295-91	SHORT	0	R3342	1-216-295-91	SHORT	0
R3215	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3344	1-216-295-91	SHORT	0
R3216	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R3345	1-216-295-91	SHORT	0
R3217	1-216-025-91	RES,CHIP	100 5% 1/10W	R3346	1-216-025-91	RES,CHIP	100 5% 1/10W
R3218	1-216-025-91	RES,CHIP	100 5% 1/10W	R3347	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3219	1-216-025-91	RES,CHIP	100 5% 1/10W	R3348	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3220	1-216-025-91	RES,CHIP	100 5% 1/10W	R3349	1-216-017-91	RES,CHIP	47 5% 1/10W
R3222	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3350	1-216-295-91	SHORT	0
R3223	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3351	1-216-295-91	SHORT	0
R3224	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R3352	1-216-295-91	SHORT	0
R3226	1-216-017-91	RES,CHIP	47 5% 1/10W	R3354	1-216-295-91	SHORT	0
R3227	1-216-295-91	SHORT	0	R3355	1-216-295-91	SHORT	0
R3228	1-216-022-00	RES,CHIP	75 5% 1/10W	R3357	1-216-295-91	SHORT	0
R3229	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3359	1-216-295-91	SHORT	0
R3230	1-216-025-91	RES,CHIP	100 5% 1/10W	R3361	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3231	1-216-025-91	RES,CHIP	100 5% 1/10W	R3362	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3232	1-216-025-91	RES,CHIP	100 5% 1/10W	R3401	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3233	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3402	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3234	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3403	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3235	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3404	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3237	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3405	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3238	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3406	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3239	1-216-025-91	RES,CHIP	100 5% 1/10W	R3410	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3240	1-216-025-91	RES,CHIP	100 5% 1/10W	R3411	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3241	1-216-025-91	RES,CHIP	100 5% 1/10W	R3412	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3244	1-216-017-91	RES,CHIP	47 5% 1/10W	R3416	1-216-017-91	RES,CHIP	47 5% 1/10W
R3245	1-216-017-91	RES,CHIP	47 5% 1/10W	R3417	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3246	1-216-017-91	RES,CHIP	47 5% 1/10W	R3418	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3301	1-216-025-91	RES,CHIP	100 5% 1/10W	R3419	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3302	1-216-025-91	RES,CHIP	100 5% 1/10W	R3420	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3303	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3421	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3304	1-216-295-91	SHORT	0	R3422	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3305	1-216-025-91	RES,CHIP	100 5% 1/10W	R3423	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3306	1-216-025-91	RES,CHIP	100 5% 1/10W	R3424	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3307	1-216-025-91	RES,CHIP	100 5% 1/10W	R3425	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3309	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3426	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3310	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3427	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3311	1-216-043-91	RES,CHIP	560 5% 1/10W	R3428	1-216-017-91	RES,CHIP	47 5% 1/10W

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



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R3430	1-216-295-91	SHORT	0			< MISCELLANEOUS >	
		<RESISTOR CHIP NETWORK>					
RB105	1-233-575-11	RES, CHIP NETWORK	22			Δ 1-416-466-11 COIL, DEMAGNETIC (KV-28DS60)	
RB106	1-233-575-11	RES, CHIP NETWORK	22			Δ 1-416-769-11 COIL, DEMAGNETIC (KV-32DS60)	
RB107	1-233-575-11	RES, CHIP NETWORK	22			4-425-032-00 MAGNETIC, DISK; 10MM	
RB108	1-233-575-11	RES, CHIP NETWORK	22			1-452-094-00 MAGNET, ROTATABLE DISK; 15MM	
RB110	1-233-575-11	RES, CHIP NETWORK	22			Δ X-4560-138-1 FBT ASSY, NX-4602/J1B4	
						1-529-153-11 SPEAKER (4.8X20CM)	
						1-529-144-11 SPEAKER (13CM)	
RB111	1-233-575-11	RES, CHIP NETWORK	22			1-452-896-11 COIL, NA ROTATION (RT200)	
RB112	1-233-575-11	RES, CHIP NETWORK	22			Δ 1-571-433-21 SWITCH, PUSH (AC POWER)	
RB113	1-233-575-11	RES, CHIP NETWORK	22			Δ 1-776-204-11 CORD, POWER	
RB114	1-233-575-11	RES, CHIP NETWORK	22				
RB115	1-233-575-11	RES, CHIP NETWORK	22			1-693-339-21 TUNER/VIF (UK)	
						Δ 8-737-785-05 PICTURE TUBE (W66LLX101X) (KV-28DS60)	
RB116	1-233-575-11	RES, CHIP NETWORK	22			Δ 8-735-044-05 PICTURE TUBE (W76LLZ010X) (KV-32DS60)	
RB117	1-233-575-11	RES, CHIP NETWORK	22			Δ 1-451-463-21 DEFLECTION YOKE (Y28RCV) (KV-28DS60)	
RB118	1-233-575-11	RES, CHIP NETWORK	22			Δ 1-451-462-21 DEFLECTION YOKE (Y32RVC) (KV-32DS60)	
RB119	1-239-409-11	RES, CHIP NETWORK	47				
RB120	1-239-409-11	RES, CHIP NETWORK	47			Δ 8-453-015-11 NECK ASSY, NA2913-M	
						Δ 1-251-317-31 CAP ASSY, HIGH VOLTAGE	

						< ACCESSORIES AND PACKAGING MATERIALS >	
						4-204-616-61 MANUAL INSTRUCTION	
RB201	1-233-575-11	RES, CHIP NETWORK	22			X-4946-413-1 FRAME ASSY, GRILLE (KV-32DS60)	
RB202	1-233-575-11	RES, CHIP NETWORK	22			1-537-763-11 TERMINAL BOARD (KV-28DS60)	
RB203	1-233-575-11	RES, CHIP NETWORK	22			1-765-561-11 CORD (KV-32DS60)	
RB204	1-233-575-11	RES, CHIP NETWORK	22			4-960-366-01 SCREW (+P 3.5X9.5) (KV-32DS60)	
RB205	1-233-575-11	RES, CHIP NETWORK	22				
RB206	1-233-575-11	RES, CHIP NETWORK	22			4-977-191-01 CABINET SPEAKER (KV-32DS60)	
RB207	1-233-575-11	RES, CHIP NETWORK	22			4-979-187-01 SCREW (+P) (4.2X13) (KV-32DS60)	
RB208	1-233-575-11	RES, CHIP NETWORK	22			*4-029-168-01 BAG PROTECTION	
RB209	1-239-409-11	RES, CHIP NETWORK	47			*4-204-457-01 INDIVIDUAL CARTON (KV-28DS60)	
RB210	1-239-409-11	RES, CHIP NETWORK	47			*4-204-378-01 INDIVIDUAL CARTON (KV-32DS60)	
						*4-204-451-01 CUSHION (UPPER) (ASSY) (KV-28DS60)	
RB301	1-239-409-11	RES, CHIP NETWORK	47			*4-204-387-01 CUSHION (UPPER) (ASSY) (KV-32DS60)	
RB302	1-239-409-11	RES, CHIP NETWORK	47			*4-204-454-01 CUSHION (LOWER) (ASSY) (KV-28DS60)	
RB303	1-239-409-11	RES, CHIP NETWORK	47			*4-204-388-01 CUSHION (LOWER) (ASSY) (KV-32DS60)	
RB304	1-239-409-11	RES, CHIP NETWORK	47				
RB305	1-239-409-11	RES, CHIP NETWORK	47			< REMOTE COMMANDER >	
RB306	1-239-409-11	RES, CHIP NETWORK	47			1-418-047-11 REMOTE COMMANDER (RM-891)	
RB307	1-239-409-11	RES, CHIP NETWORK	47				
RB308	1-239-409-11	RES, CHIP NETWORK	47				
RB309	1-239-409-11	RES, CHIP NETWORK	47				
RB310	1-239-409-11	RES, CHIP NETWORK	47				
RB311	1-239-409-11	RES, CHIP NETWORK	47				
RB312	1-239-409-11	RES, CHIP NETWORK	47				
RB313	1-239-409-11	RES, CHIP NETWORK	47				
RB314	1-239-409-11	RES, CHIP NETWORK	47				
RB315	1-239-409-11	RES, CHIP NETWORK	47				
RB316	1-239-409-11	RES, CHIP NETWORK	47				
RB317	1-239-409-11	RES, CHIP NETWORK	47				
RB319	1-239-409-11	RES, CHIP NETWORK	47				
RB320	1-239-409-11	RES, CHIP NETWORK	47				
RB321	1-239-409-11	RES, CHIP NETWORK	47				
		<CRYSTAL>					
X3101	1-767-614-21	OSCILLATOR, CRYSTAL					

