

SERVICE MANUAL

BE-3E CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-28DC20B	RM-931	FR	SCC-Q23D-A				

FD Trinitron



TRINITRON[®] COLOR TV
SONY[®]

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

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN 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 À LA SECURITÉ!!

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

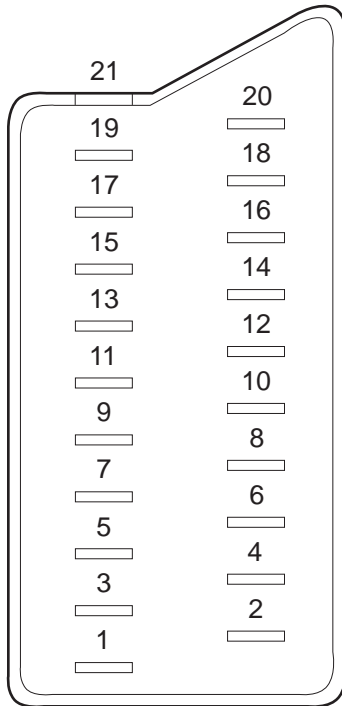
ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
FR	B/G/H, D/K, L, I	Nicam Stereo	B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H, H1, H2 DK : R01-R12, R21-R69, S01-S05 L VHF : F2-F10, UHF : F21-F69 CABLE TV (1) : B,C-Q, S21-S44 I UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN) MPEG2

Model	28DC20B
Power Consumption	123W

Picture Tube	FD Trinitron Wide Approx 71cm (28 inches) (Approx 66cm picture measured diagonally) 102 degree deflection	Sound output Subwoofer	2x20W (Music Power) 20W (Music Power)
Input/Output Terminals [REAR]		Power Requirements	220 - 240V
21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Dimensions	Approx 761x496x525mm
2:21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (monitor out)	Weight	Approx 45kg
3:21-pin Euro connector	Inputs for Audio and Video signals. Outputs of TV Video and Audio signals. (selectable)	Supplied Accessories	RM-931 Remote Commander (1) IEC designated R6 battery (2) V23 Modem
Audio Outputs	Phono Jack One Optical Digital Audio Output Socket	Other Features	Teletext
		RM-931	
Input/Output Terminals [FRONT]		Remote control system	Infrared control
Headphone jack	stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Audio 2 input	phono jacks	Dimensions	Approx 44x209x23mm (w/h/d)
Video 2 input	phono jacks	Weight	Approx 89g (not including battery)
S Video input	4 pin DIN		
Design and specifications are subject to change without notice.			

Item	KV-28DC20B	Item	KV-28DC20B
Pal Comb	OFF	Norm B/G	ON
PIP	OFF	Norm I	ON
RGB Priority	OFF	Norm D/K	ON
Woofer Box	ON	Norm AUS	OFF
Scart 1	ON	Norm L	ON
Scart 2	ON	Norm SAT	ON
Front in (2)	ON	Norm M	OFF
Scart 4	ON	Teletext	ON
Projector	OFF	Nicam Stereo	ON
AKB in 16:9 mode	ON	Language Preset	French

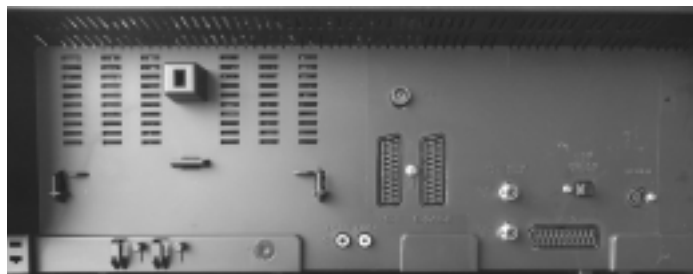
21 pin connector



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 (blinking)	
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

Rear Connection Panel



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



S-Video socket

BE-3E SELF DIAGNOSTIC SOFTWARE

The errors indicated below can be read using an Error Reader Display (Part Number S-188-900-10) connected to the service connector. Once an error has been detected it will then be displayed on the two digit error reader. During the power up procedure and during normal run time, the micro's self diagnostic procedures monitor for various errors. Errors displayed refer to the table indicated below.

Error Number	Error Description
00	No error (TV Error Reader shows 00 in normal condition)
01	Not allowed (may be confused with Sircs response flash on LED)
02	Protection circuit trip (OCP, OVP & No V-Sync)
03	Reserved for OVP (Included in error 2 for BE-3E)
04	Reserved for No V-Sync (Included in error 2 for BE-3E)
05	AKB
06	IIC Scl Low <Power Up only>
07	IIC Sda Low <Power Up only>
08	IIC Sda & Scl Low <Power Up only>
09	Jungle controller no acknowledge <Power Up only>
10	Video Switch (CXA2040) no acknowledge <Power Up only>
11	Tuner no acknowledge
12	MSP no acknowledge
13	NVM no acknowledge
14	AV switch (CXA2089) no acknowledge
15	Not Used
16	Port Expander (CXA1875) no acknowledge
17	Not Used
18	Dynamic Convergence (CXA8070) no acknowledge
19	Cannot Initialise jungle (after initial power on check OK) - <Chassis Initialisation>
20	Jungle controller response failure after power up check (+9V test)
21	Video Switch (CXA2040) cannot power on reset - <Chassis Initialisation>
22	Video Switch (CXA2040) response failure after power up check (+9V test)
23	NVM acknowledge fail after initialisation(STBY +5V - same as micro!)
24	MSP run-time failure <May Not Be Fatal - Display On Error Reader>
25	DSP run-time failure <May Not Be Fatal - Display On Error Reader>
26	M3L bus Clock low time out after data send <Run-Time failure>
27	M3L bus Clock low time out after data send <At Power Up Check>
28	M3L bus Clock low time out after data send <At Initialisation>
29	M3L Txd Low <Power Up Only>
30	M3L Rxd Low <Power Up Only>
31	M3L Enable Low <Power Up Only>
32	Compact Text test fail <Power Up Only>
33	Compact Text does not respond (+5V test)
34	Compact Text run-time failure <May Not Be Fatal - Display On Error Reader>

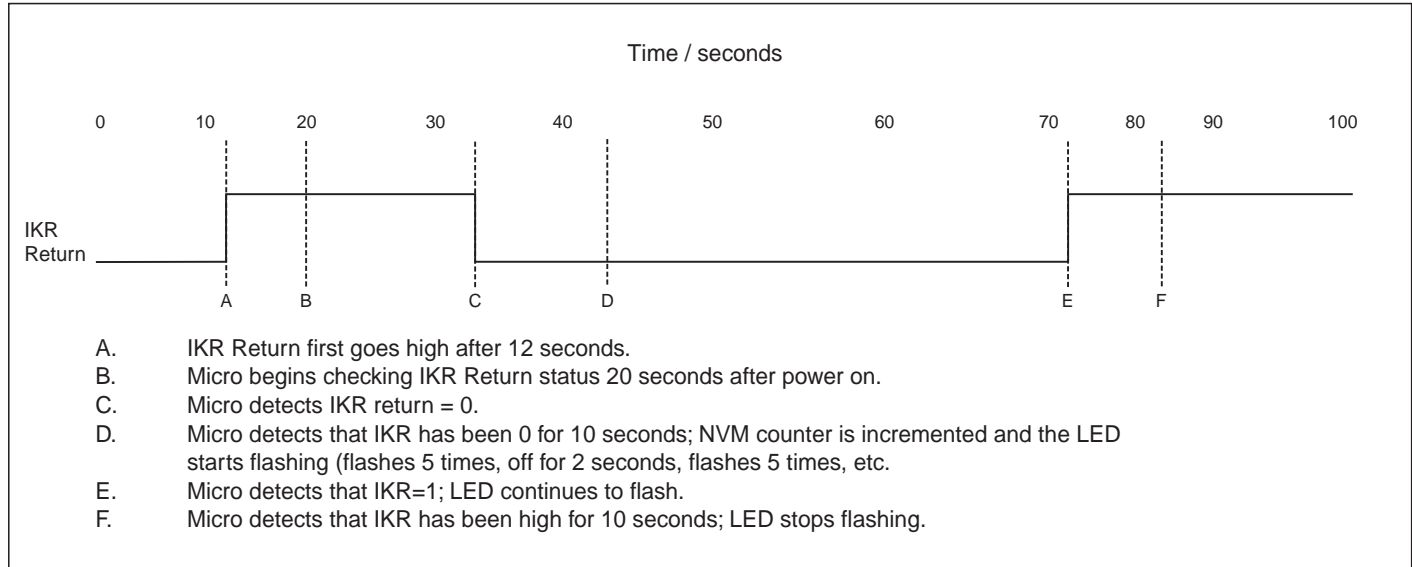
Protection Error (Error 2)

Once every main loop (approximately 200ms OSD mode, 50ms text or menu mode), the micro checks the protection pin (pin 66). If the protection pin is high 6 successive times, a protection error is diagnosed. The protection pin is **not** checked during the first 3 - 4 seconds after AC on. *If this error is diagnosed, the respective NVM register will be updated and the set goes straight into diagnostic standby with 2 flashes - no reset is attempted.*

AKB Error (Error 5):

Once every main loop the micro checks the AKB stability by reading the IKR return from the Jungle IC. IKR=1 means that the AKB is stable, IKR=0 means that the AKB is unstable. If the AKB status is unstable for 10 seconds, an AKB error is diagnosed. AKB stability is not checked during the first 20 seconds after AC switch on.

If this error is diagnosed, the respective NVM register will be updated and the response LED will flash 5 times continually, but the set will not go into standby mode. If the AKB status becomes stable, and remains stable for 10 seconds, the LED will stop flashing.



Startup Diagnostic Errors (Errors 6-18, 27, 29-32):

NVM	Error Description
6	SCL pin low
7	SDA pin low
8	Both SCL and the SDA pins are low
9	No acknowledge from the jungle (CXA2076)
10	No acknowledge from the video switch (CXA2040)
11	No acknowledge from the tuner
12	No acknowledge from the MSP
13	No acknowledge from the NVM
14	No acknowledge from the CXA2089 video switch
16	No acknowledge from the CXA1875 video Port Expander
18	No acknowledge from the Dynamic Convergence (CXA8070)
27	M3L_TXD pin low after Compact Text RAM test.
29	M3L_TXD Pin Low
30	M3L_RXD Pin Low
31	M3LEN Pin Low
32	Compact Text RAM test fail

If any of these errors are detected, the respective NVM register will be incremented. The software will then carry on with the power up sequence.

General IIC Device Run-time Errors (Errors 19-23):

NVM	Error Description
19	No acknowledge from the jungle when attempting to initialise
20	No acknowledge from the jungle when attempting to read registers
21	AV Switch cannot complete reset during initialisation
22	No acknowledge from AV Switch when attempting to read registers
23	No acknowledge from the NVM when attempting to read or write

If any of these errors are detected, the respective NVM register will be incremented and the software will carry on.

Compact Text Run-time Errors (Errors 26, 28, 33 & 34):

NVM	Error Description
26	M3L_TXD pin low when checking register 81 (implies that no communication was possible).
28	M3L_TXD pin low when attempting to initialise (implies that no communication was possible).
33	Compact Text RAM test failed during initialisation of devices.

In the case of these errors, the 'device reset' pin will be held low for 60ms, causing a hardware reset of Compact Text. Following this reset, a longer timeout will be allowed for the M3L bus to recover. If the error still exists, the NVM register will be incremented and the software will carry on.

NVM	Error Description
34	Register 81 check fail, but M3L_TXD pin high (implies that Compact Text has either reset or become corrupted).

MSP and DSP Run-time Errors (Errors 24 & 25):

NVM	Error Description
24	Error 24 can be caused by any of the following: - After MSP initialisation, Scart Prescale Register check fail (implies that the MSP has either reset or become corrupted). - MSP fails to acknowledge reset instruction. - Scart Prescale Register check fail (implies that the MSP has either reset or become corrupted).
25	DSP test byte corrupted (implies that the MSP has either reset or become corrupted).

For both these errors, the software will refresh the MSP and DSP registers. If the errors still exist, the NVM counter will be incremented, and the software will carry on.

Error Display Mode

Error Display Mode is entered by the following sequence of commands :

Standby -> Information -> Digit 5 -> Volume Down -> TV

This mode will display a special menu, which will list all possible errors and the number of occurrences of each error (0 - 255, as stored in the NVM). There will also be a display of the current error (0 if no error). This display mode will appear as follows :

ERROR DISPLAY MODE			
CURRENT ERROR CODE = 0			
Error Code	Times	Error Code	Times
2	0	19	0
3	0	20	0
4	0	21	0
5	0	22	0
6	0	23	0
7	0	24	0
8	0	25	0
9	0	26	0
10	0	27	0
11	0	28	0
12	23	29	0
13	0	30	0
14	0	31	0
15	0	32	0
16	0	33	0
17	0	34	0
18	1		

Whilst in this mode, the number of occurrences of each error can be reset to 0 by following sequence of Sircs commands: Digit 8 -> Digit 0. 'TT08' will also reset this NVM data.

This mode can only be exited by switching off the TV.

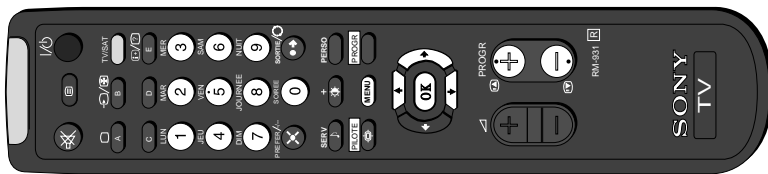
The Current Error Code can also be read by using a TV Error Reader (IIC slave address 42H). This device simply receives 1 data byte, which is the error number in binary coded decimal form.

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

Additional TV Features

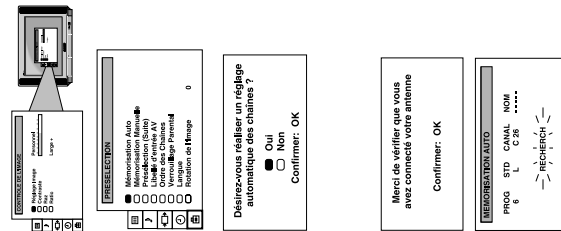
Automatically tuning the TV

You have already tuned in all available channels using the 'Automatically' tuning the TV' section at the start of this manual. If you need to repeat the tuning procedure however, follow the instructions below and the TV automatically searches and stores all available analogue TV channels for you.



1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the \blacktriangleright button on the remote control to select the symbol on the menu screen then press the \blacktriangleright button to enter the 'PRESELECTION' menu.
3. Press the \blacktriangle or \blacktriangledown button to select 'Mémorisation Auto' then press the \blacktriangleright button to display the autotune menu.
4. Press the \blacktriangle or \blacktriangledown buttons to select 'Out' then press the OK button to confirm.
5. A new menu appears asking you to check that the antenna is connected. Ensure the antenna is connected then press the OK button to confirm. The TV now starts to automatically search and store all available channels for you. Please be patient and do not press any buttons once this search and store operation has started.
6. When the automatic tuning procedure is complete, the menu disappears from the TV screen. Press the PROG +/- or the numbered buttons on the remote control to view the TV channels.

Note: Press the MENU button if you wish to stop the automatic tuning procedure.



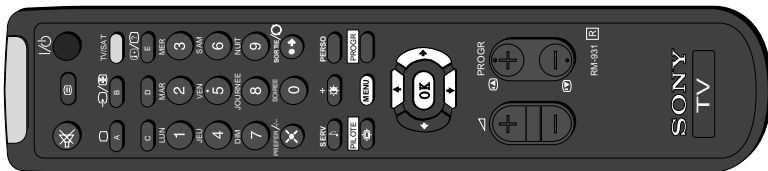
1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the \blacktriangleright button on the remote control to select the symbol on the menu screen then press the \blacktriangleright button to enter the 'PRESELECTION' menu.
3. Press the \blacktriangle or \blacktriangledown button to select 'Mémorisation Auto' then press the \blacktriangleright button to display the autotune menu.
4. Press the \blacktriangle or \blacktriangledown buttons to select 'Out' then press the OK button to confirm.
5. A new menu appears asking you to check that the antenna is connected. Ensure the antenna is connected then press the OK button to confirm. The TV now starts to automatically search and store all available channels for you. Please be patient and do not press any buttons once this search and store operation has started.
6. When the automatic tuning procedure is complete, the menu disappears from the TV screen. Press the PROG +/- or the numbered buttons on the remote control to view the TV channels.

Note: Press the MENU button if you wish to stop the automatic tuning procedure.

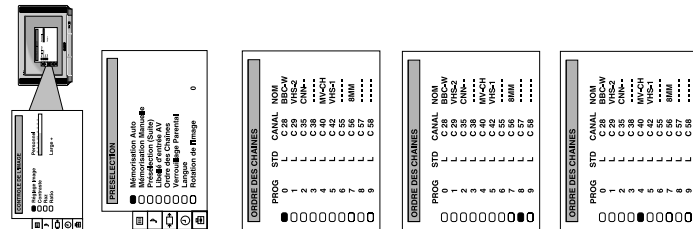
Additional TV Features

Re-arranging the TV channels

After tuning the TV, you can use this feature to change the analogue channel order.



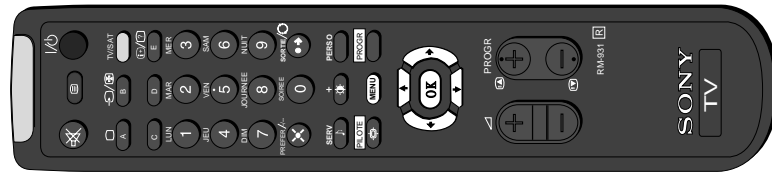
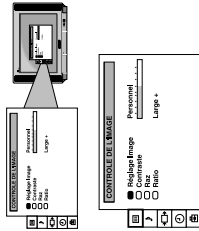
1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the \blacktriangleright button on the remote control to select the symbol on the menu screen then press the \blacktriangleright button to enter the 'PRESELECTION' menu.
3. Press the \blacktriangle or \blacktriangledown button to select 'Ordre des Chaînes' then press the \blacktriangleright button to enter the 'ORDRE DES CHAINES' menu.
4. Press the \blacktriangle or \blacktriangledown buttons to select the channel you want to move then press the OK button to confirm.
5. Press the \blacktriangle or \blacktriangledown buttons to select the new programme position (eg PROG 4) for your selected channel then press the OK button to confirm. The channel you selected in step 4 now moves to its new programme position.
6. Repeat steps 4 and 5 if you wish to sort other channels.
7. Press the MENU button to remove the menu from the TV screen.



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. Press the \blacktriangle or \blacktriangledown button on the remote control to select the \square symbol on the menu screen then press the \rightarrow button to enter the 'CONTROLE DE L'IMAGE' menu.
3. Press the \blacktriangle or \blacktriangledown buttons to select the item on the screen you wish to adjust then press the \rightarrow button to confirm. For a description of the menu items and their effects, see the table below.
4. If you selected 'Réglage Image' or 'Ratio' in step 3, press the \blacktriangle or \blacktriangledown buttons to select the item on the screen you wish to adjust then press the \rightarrow button to confirm.
5. Press the \blacktriangle or \blacktriangledown buttons to adjust your selected item.
6. As soon as you have adjusted the item, press the OK button to store the new setting.
7. If you selected 'Réglage Image' or 'Ratio' in step 3, press the \blacktriangle or \blacktriangledown button to return to the 'CONTROLE DE L'IMAGE' menu.
8. Repeat steps 3-7 to adjust the other items.
9. Press the MENU button to remove the menu from the TV screen.



Réglage Image	<ul style="list-style-type: none"> Personnel (for individual settings) Cinéma (for films) Concert (for live broadcasts) Luminosité* Couleurs* Neteté* Teinte**
Contraste	<ul style="list-style-type: none"> Personnel Rock Jazz Pop Algas Grasses
Raz	Resets picture to factory preset levels
Ratio	<ul style="list-style-type: none"> Ratio (refer to page 14 for details) Haut/Bas 0 Auto 16:9 \blacktriangle Non \blacktriangleright Oui

*Only if you select 'Personnel' in 'Réglage Image'.
** 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 'CONTROLE DE L'IMAGE' or the 'CONTROLE DU SON' menu screens.

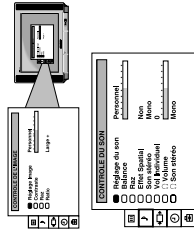
1. Press the \blacktriangle symbol on the remote control for picture modes or the β symbol for equalizer modes.
2. Press the \blacktriangle or \blacktriangledown buttons to select the desired mode.
3. Press the OK button to remove the display from the TV screen.

<ul style="list-style-type: none"> Personnel Cinéma Concert 	<ul style="list-style-type: none"> Personnel Rock Jazz Pop
--	--

Adjusting the sound

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

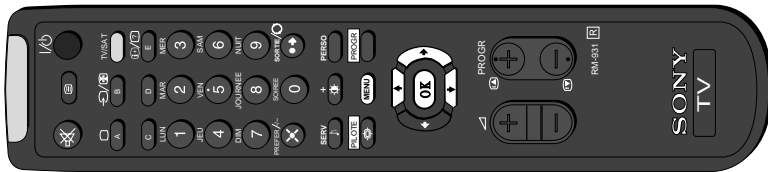
1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the \blacktriangle or \blacktriangledown button on the remote control to select the β symbol on the menu screen then press the \rightarrow button to enter the 'CONTROLE DU SON' menu.
3. Press the \blacktriangle or \blacktriangledown buttons to select the item on the screen you wish to adjust then press the \rightarrow button to confirm. For a description of the menu items and their effects, see the table below.
4. If you selected 'Réglage du Son' in step 3, press the \blacktriangle or \blacktriangledown buttons to select the item on the screen you wish to adjust then press the \rightarrow button to confirm.
5. Press the \blacktriangle or \blacktriangledown buttons to adjust your selected item.
6. As soon as you have adjusted the item, press the OK button to store the new setting.
7. If you selected 'Réglage du Son' in step 3, press the \blacktriangle or \blacktriangledown button to return to the 'CONTROLE DU SON' menu.
8. Repeat steps 3-7 to adjust the other items.
9. Press the MENU button to remove the menu from the TV screen.



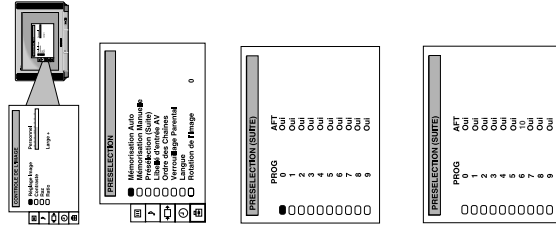
Réglage du Son	<ul style="list-style-type: none"> Personnel Rock Jazz Pop Algas Grasses
Balance	<ul style="list-style-type: none"> Personnel Rock Jazz Pop Algas Grasses
Raz	Resets picture to factory preset levels
Effet Spatial	<ul style="list-style-type: none"> On: volume level of the channels will stay the same Off: volume level changes according to the broadcast signal
Son Stereo	<ul style="list-style-type: none"> Stereo \blacktriangle Mono (for a stereo broadcast) A for channel 1 \blacktriangleright B for channel 2 (for a bilingual broadcast)
Vol Individuel	The channel volume level can be adjusted over a range of +1.2 to -1.2.
Headphones	<ul style="list-style-type: none"> Volume Son Stereo Stereo \blacktriangle Mono (for a stereo broadcast) A for channel 1 \blacktriangleright B for channel 2 (for a bilingual broadcast)

Using the Further Programme Preset feature

With this feature you can manually fine-tune the TV to obtain a better picture reception if the picture is distorted.

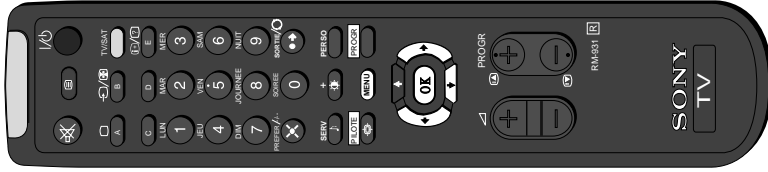


1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the button to select the symbol on the menu screen then press the button to enter the 'PRESELECTION' menu.
3. Press the button to select 'présélection (suite)' then press the button to enter the 'PRESELECTION (SUITE)' menu.
4. Press the or buttons to select the relevant programme number then press the button repeatedly to select AFT column.
5. Press the or buttons to fine tune the channel frequency over a range of -15 to +15. Press the OK button to confirm. Repeat steps 4 and 5 if you wish to fine tune other channels.
6. Press the MENU button to remove the menu from the TV screen.

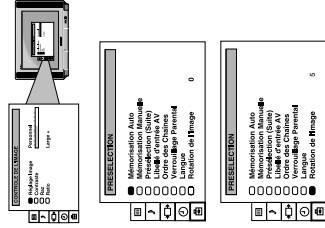


Adjusting the picture rotation

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



1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the button to select the symbol on the menu screen then press the button to enter the 'PRESELECTION' menu.
3. Press the button to select 'Rotation de l'image' then press the button to highlight the 0 (zero) on the right of the menu.
4. Press the or buttons to adjust the picture rotation. The adjusting range is -5 to +5.
5. Press the OK button to store the new range.
6. Press the MENU button to remove the menu from the TV screen.



Using the parental lock

This feature enables you to prevent undesirable broadcasts appearing on the TV.

- Press the MENU button on the remote control to display the menu on the TV screen.
- Press the \blacktriangledown button on the remote control to select the \square symbol on the menu screen then press the \blacktriangleright button to enter the 'PRESELECTION' menu.
- Press the \blacktriangledown button to select 'Verrouillage Parental' then press the \blacktriangleright button to enter the 'VERROUILLAGE PARENTAL' menu.
- Press the \blacktriangledown button to select the channel you wish to block then press the OK button to confirm your selection. The \square symbol appears before the programme position to indicate this channel is now blocked. To unblock the channel, press the OK button again. The \square symbol disappears.
- Repeat step 4 if you wish to block other channels.
- Press the MENU button to remove the menu from the TV screen.

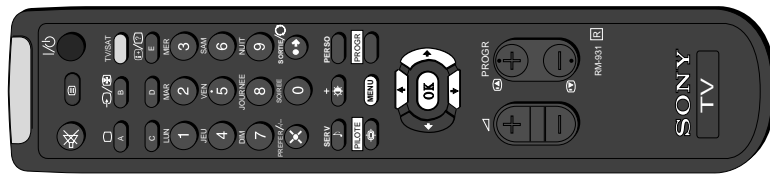
Manually tuning the TV

You have already tuned the TV automatically using the instructions at the start of this manual. You can however carry out this tuning operation manually, adding analogue channels to the TV, one at a time.

- Press the MENU button on the remote control to display the menu on the TV screen.
- Press the \blacktriangledown button to select the \square symbol on the TV screen then press the \blacktriangleright button to enter the 'PRESELECTION' menu.
- Press the \blacktriangledown button to select 'Mémorisation Manuelle' on the menu screen then press the \blacktriangleright button to enter the 'MEMORISATION MANUELLE' menu.
- Press the \blacktriangle or \blacktriangledown buttons to select an unused programme number for your channel then press the \blacktriangleright button to enter.
- Press the \blacktriangle or \blacktriangledown buttons to select the TV broadcast system (I for UK, L for France or B/G for Western European countries) or a video input source (AV1, AV2...), then press the \blacktriangleright button to confirm.
- Press the \blacktriangle or \blacktriangledown buttons to select C for terrestrial channels or S for cable channels in the 'CANAL' column, then press the \blacktriangleright button to confirm.
- Select the first number digit of 'CANAL' (channel) then the second number digit of 'CANAL' with the number buttons on the remote control or Press the \blacktriangle or \blacktriangledown buttons to search for the next available channel.
- If you do not wish to store this channel on the programme number you selected, press the \blacktriangle or \blacktriangledown buttons on the remote control to continue searching for the desired channel.
- If this is the channel you wish to store, press the OK button.
- Repeat steps 4-9 if you wish to store more channels then press the MENU button to remove the menu from the TV screen.

Skipping programme positions

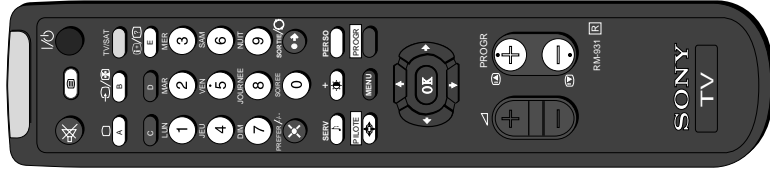
This function enables you to skip unused programme positions when selecting them with the PROG+/- buttons. However, by using the number buttons you can still select the skipped programme position.



1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the \blacktriangledown button on the remote control to select the \square symbol on the menu screen then press the \blacktriangleright button to enter the 'PRESELECTION' menu.
3. Press the \blacktriangledown button to select 'Mémorisation Manuelle' then press the \blacktriangleright button to enter the 'MEMORISATION MANUELLE' menu.
4. Press the \blacktriangle or \blacktriangledown buttons to select the programme position you want to skip then press the \blacktriangleright button to enter the 'STD' column.
5. Press the \blacktriangledown button to select "..." then press the OK button to store.
6. Repeat steps 4 and 5 to skip other programme positions.
7. Press the MENU button to remove the menu from the TV screen.

Teletext

Teletext is an information service transmitted by most TV stations.



Switching Teletext on and off

1. Press a numbered button on the remote control to select the channel which carries the teletext service you wish to receive.
2. Press the \square button on the remote control to switch on teletext.
3. Select the required page number using the numbered buttons on the remote control. If you make a mistake, complete the number then re-enter the correct page number.
4. Press the \square button to switch off teletext.

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

Using Other Teletext Functions

To superimpose Teletext on to the TV

Press the \square button on the remote control once if in teletext mode or twice if in TV mode to superimpose teletext on to the TV picture. Press the \square button once more to cancel.

To move to the next or preceding page

Press the \square or \square buttons to select the previous or next page.

To freeze a Teletext page

Press the \square button to freeze the page. Press again to cancel the freeze.

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

Press the \square button to reveal information. Press again to conceal the information.

Using colour buttons to access pages (Fastext)

(only available if the TV station broadcasts Fastext signals) 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.

Connecting equipment to the TV

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 correct TV socket (as shown in the diagram).
2. Press the **0** button repeatedly on the remote control until the correct input symbol for your equipment appears on the TV screen.

Symbol	Input signals
01	• Audio/video input signal through the scart connector F
02	• RGB input signal through the scart connector F
02	• Audio/video input signal through the scart connector G or the phono sockets C and D
02	• S video input signal through the scart connector G or the phono sockets E and D
03	• Audio/video input signal through the scart connector H

3. Switch on the connected equipment.

4. To return to the normal TV picture, press the **0** button on the remote control.

Note: To avoid picture distortion, do not connect equipment to the **B**, **C**, **D** and **G** sockets at the same time.

Additional information when connecting equipment

Connecting a VCR

We recommend you connect your VCR to the **H** 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 **E** sockets on the rear of the TV if you wish to amplify the audio output from the TV. The output level from the **E** sockets can be varied by adjusting the volume of the headphones (refer to the 'Adjusting the sound' section of this manual).

For mono equipment

Connect the phono plug to the L/G/S/I socket on the front of the TV and select the **02** input signal using the instructions on this page. Finally, refer to the 'Adjusting the sound' section of this manual and select 'A' on the sound menu screen.

For DAT players

Connect to the digital audio socket **I** on the rear of the TV.

Connecting a modem

Connect the modem unit to the connection **J** on the rear of the TV and your telephone socket.

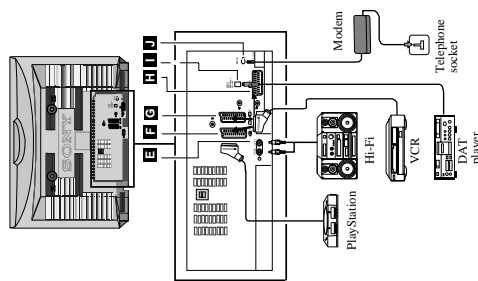
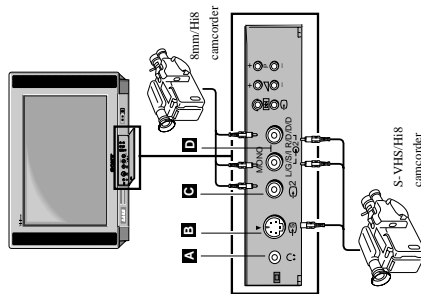
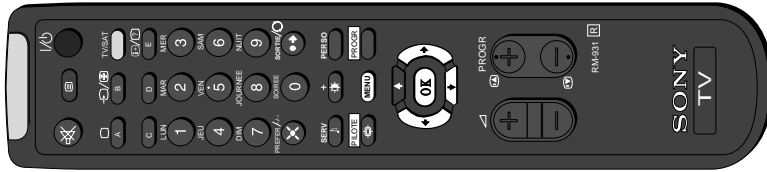
Connecting equipment to the TV

Selecting the output source for the scart socket **G** or **H**

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the **0** button to select the **0** symbol on the menu screen then press the **0** button to enter the 'CONNEXION VIDEO' menu screen.
3. Press the **0** button to highlight 'Ecran TV' (input source for the TV screen) or 'Sortie' (output source for **02** or **03** socket) then press the **0** button to confirm.
4. Press the **0** or **0** buttons to select the desired source (see below) then press the OK button to confirm:

TV Screen	TV, AV1, RGB, AV2, YC2, AV3, SAT
Output	TV, AV1, AV2, YC2, AV3, SAT, AUTO

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



Specifications

TV system

L, B/G/H, I, DK

Colour system

PAL, SECAM
NTSC 3.58, 4.43 (only Video In)
MPEG 2

Channel coverage

See 'Receivable Channels' on the next page.

Picture tube

FD Trinitron WIDE

Approx. 71cm (28inches) (Approx. 66cm picture measured diagonally), 102° deflection

Rear Terminals

- ① 21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
- ② 21-pin Euro connector (CENELEC standard) including audio/video input, S-video input, Monitor audio/video output.
- ③ 21-pin Euro connector (CENELEC standard) including audio/video input, selectable audio/video output.
- ④ Audio outputs - phono jacks
- ⑤ One optical digital audio output socket

Front Terminals

- ① Video input - phono jacks
- ② Audio inputs - phono jacks
- ③ S video input - 4 pin DIN
- ④ Headphones jack - minijack stereo

Sound output

Left/Right: 2x20W (music power)
Sub woofer: 20W (music power)

Power consumption

123W

Dimensions (wxhxd)

Approx. 761x496x525mm

Weight

Approx. 45.0kg

Accessories supplied

RM-931 remote control (1)
IEC designated size AA battery (2)
V.23 MODEM











Other features

Teletext

Design and specifications are subject to change without notice.

Troubleshooting

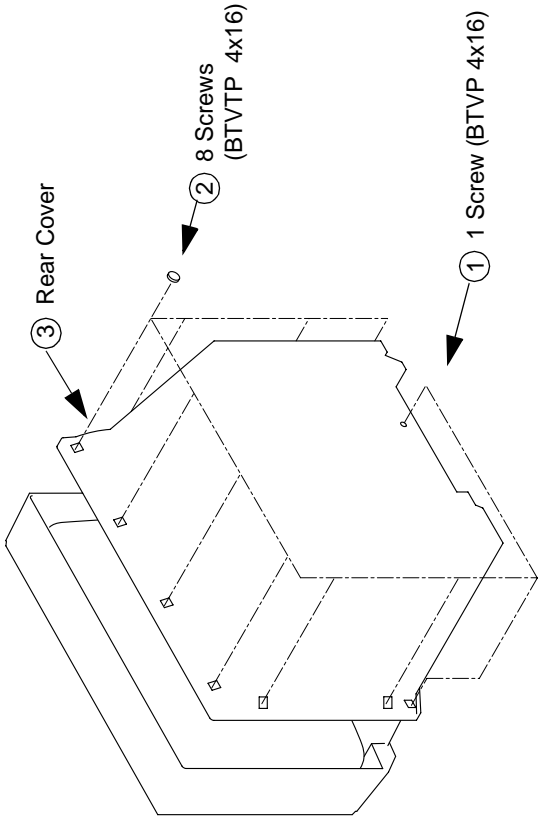
Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	<ul style="list-style-type: none"> • Plug the TV in. • Press the  button on the front of the TV. • If the  indicator is on press the  button or a numbered button on the remote control. • Check the aerial or satellite connection. • Turn the TV off for 3 or 4 seconds and then turn it on again using the  button on the front of the TV.
Poor or no picture (screen is dark), but good sound.	<ul style="list-style-type: none"> • Using the MENU system, select the Control de l'image display. Adjust the brightness, picture and colour balance levels. • From the Control de l'image display select Raz to return to the factory settings.
Poor picture quality when watching an RGB video source.	<ul style="list-style-type: none"> • Press the  button repeatedly on the remote control until the RGB symbol  is displayed on the screen.
Good picture, no sound	<ul style="list-style-type: none"> • Press the  button on the remote control. • If  is displayed on the screen, press the  button on the remote control.
No colour on colour programmes	<ul style="list-style-type: none"> • Using the MENU system, select the Control de l'image display and adjust the colour setting. • From the Picture Adjustment display select Raz to return to the factory settings.
Distorted picture when changing programmes or selecting Teletext	<ul style="list-style-type: none"> • Turn off any equipment connected to the scart connectors on the rear of the TV.
Remote control does not function	<ul style="list-style-type: none"> • Replace the batteries. • Check the remote control is in the correct mode. Press the TV/SAT button until it lights up green for TV mode or red for SAT mode.
The standby indicator  on the TV flashes	<ul style="list-style-type: none"> • Contact your nearest Sony service centre.

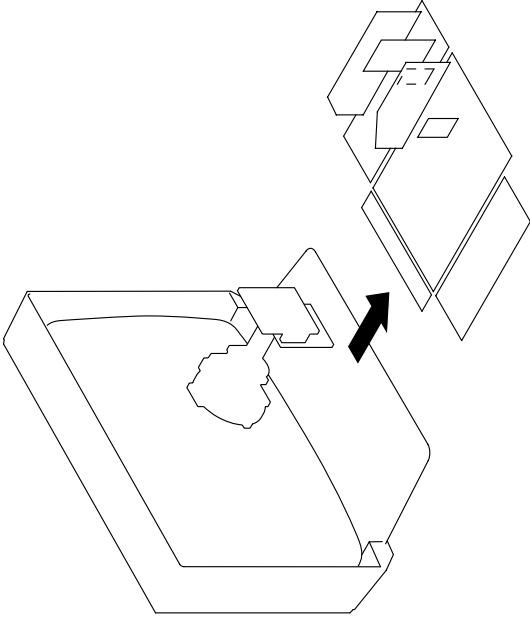
- If you continue to have these problems, have your TV serviced by qualified personnel.
- NEVER open the casing yourself.

SECTION 2 DISASSEMBLY

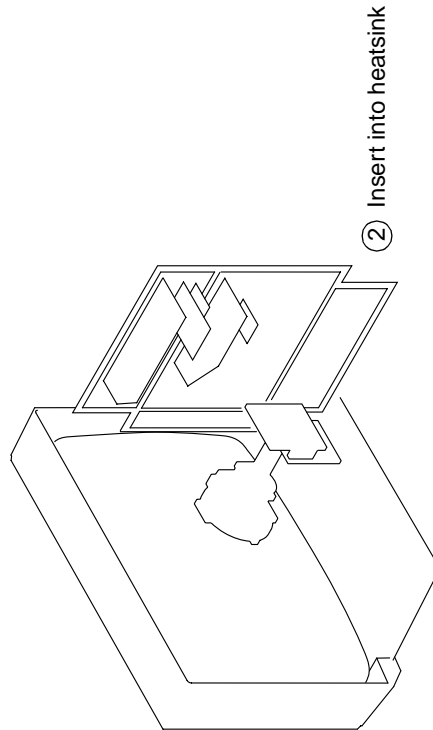
2-1. REAR COVER REMOVAL



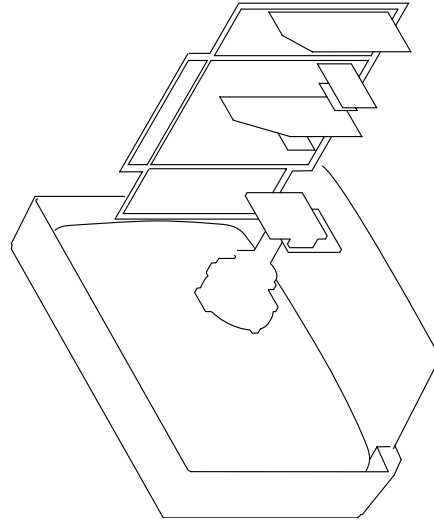
2-2. CHASSIS ASSY REMOVAL



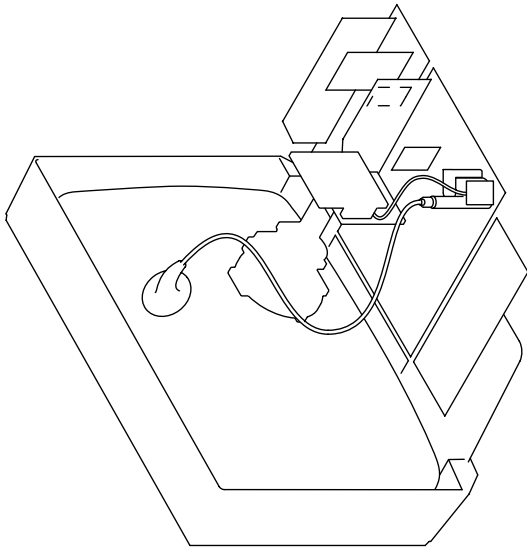
2-3-1. SERVICE POSITION (1)



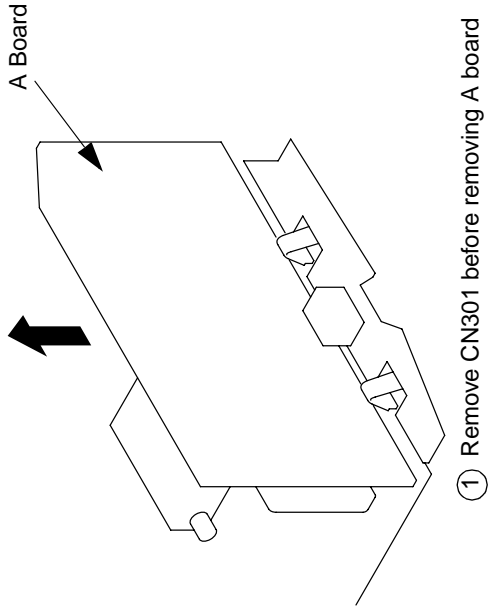
2-3-2. SERVICE POSITION (2)



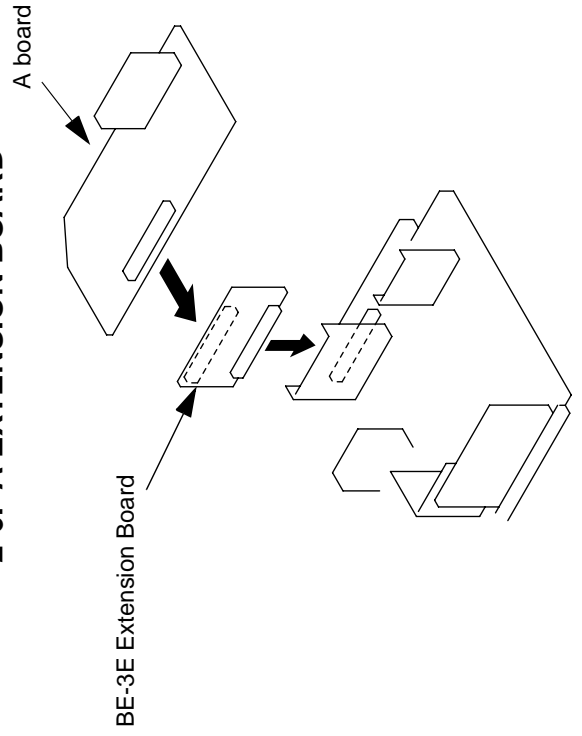
2-4. WIRE DRESSING



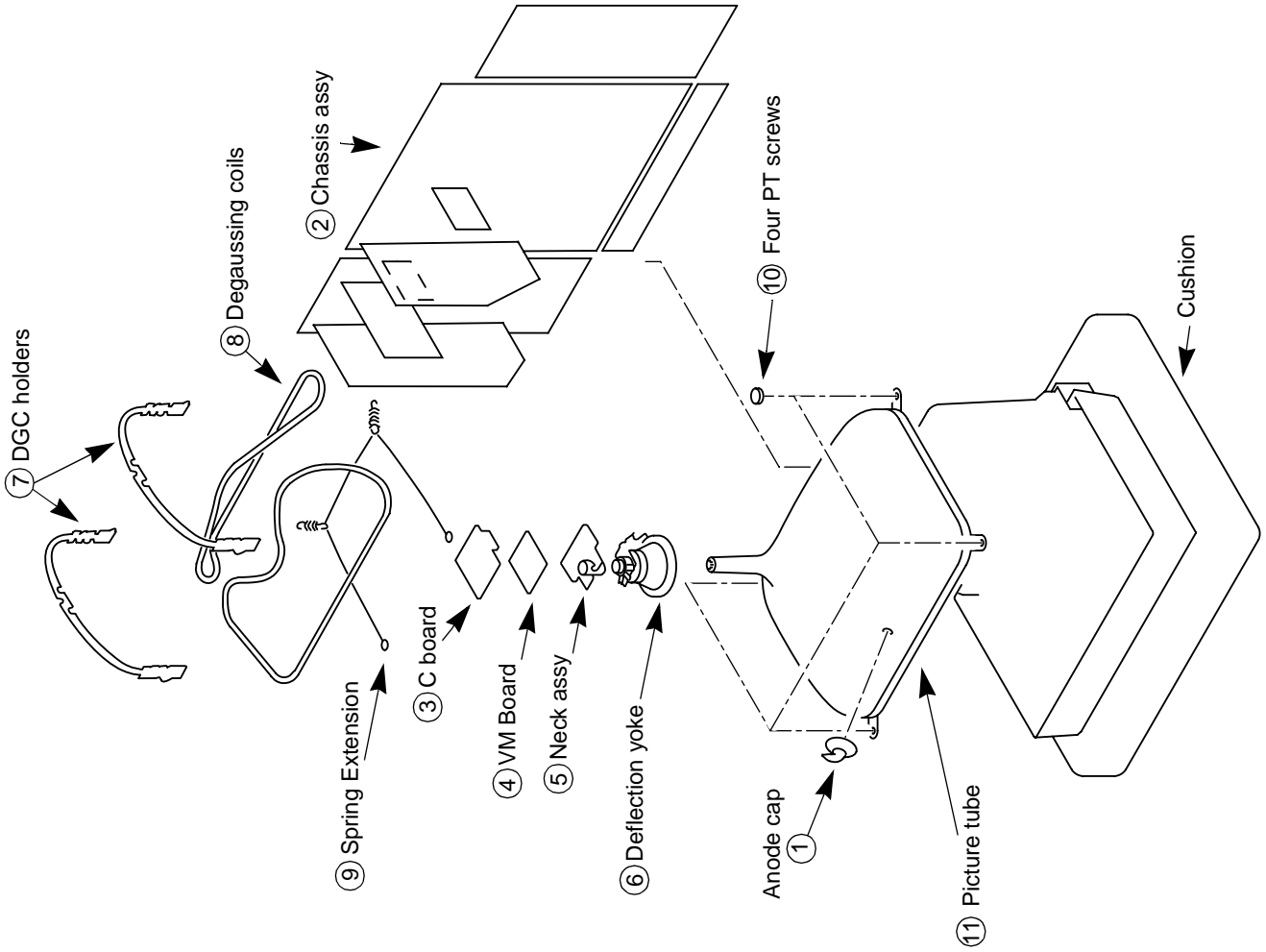
2-5. A BOARD REMOVAL



2-6. A EXTENSION BOARD



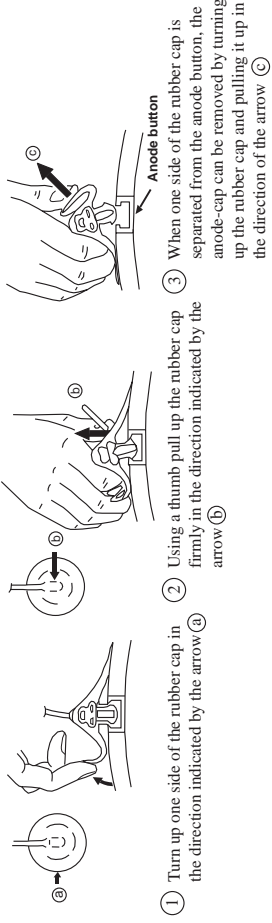
2-7. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

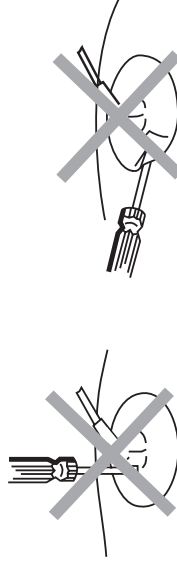
Note : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

* REMOVING PROCEDURES.



• 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.



REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

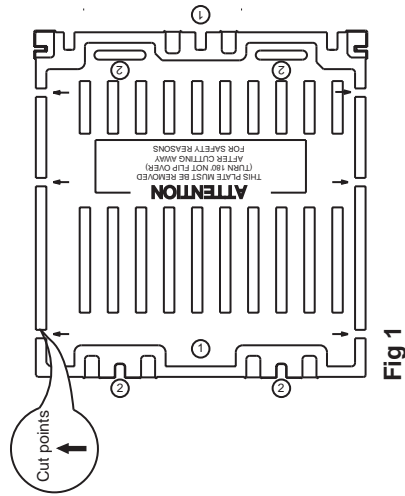
(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed wiring board, the bottom plates fitted to the main chassis bracket require to be removed.

This is performed by cutting the gates with a sharp wire cutter at the locations indicated by arrows.

Note : There are 4 plates fitted to the main bracket and secured by 6 gates.

Only remove the necessary plate to gain access to the printed wiring board.



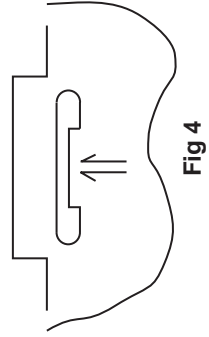
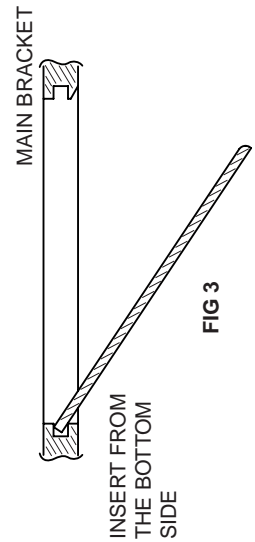
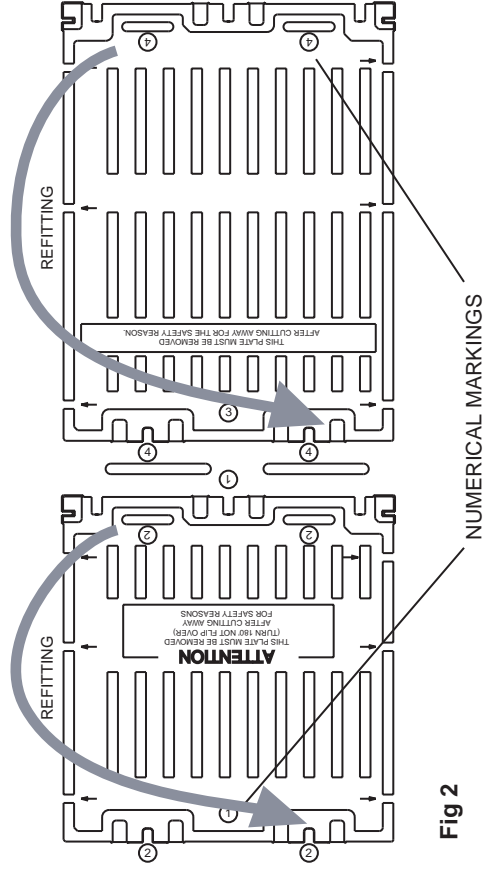
⚠ For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

The plates are identified by numerical markings on their top side e.g. 1,2

1. Identify the plate by locating its marking.
2. Rotate the plate through 180° (do not flip over).
3. Locate the corresponding numerical markings indicated on the main chassis. See Fig 2.
4. Refit the plate as indicated in Fig 3 with the markings located next to each other.



In the event of the plates requiring to be removed at a later stage, this can be achieved by inserting a screwdriver in the snap-recess indicated as in Fig 4 and lifting 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.

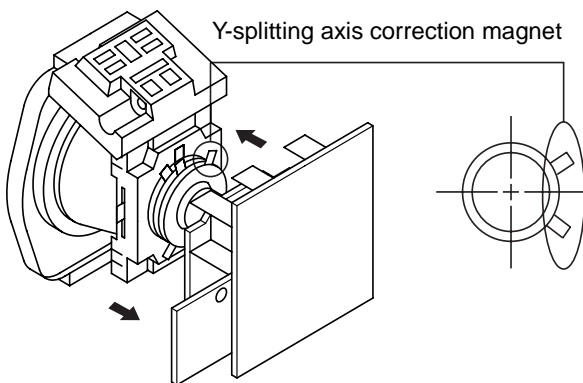
(1) Adjustment of Correction Magnet for Y-Splitting Axis

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 yoke 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 yoke to its original position.

(2) Landing

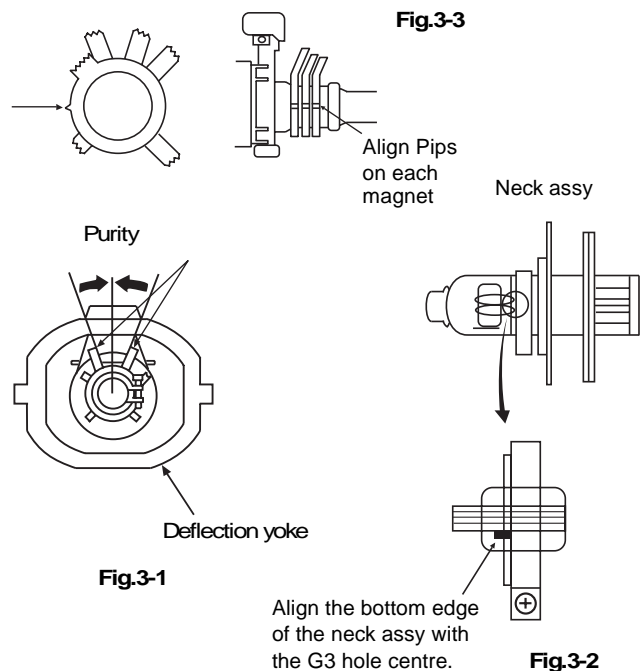
Note : Before carrying out the following adjustments adjust the magnets as indicated below [See Fig.3-3].

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 yoke 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 yoke 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 yoke 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 yoke has been determined, fasten the deflection yoke 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].



Caution :

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



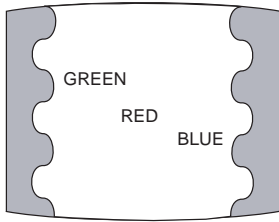


Fig.3-4

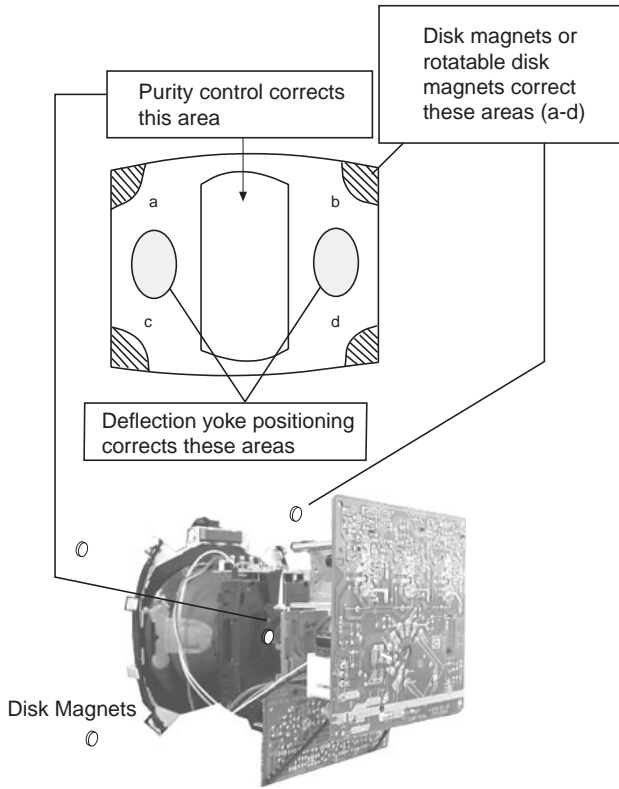
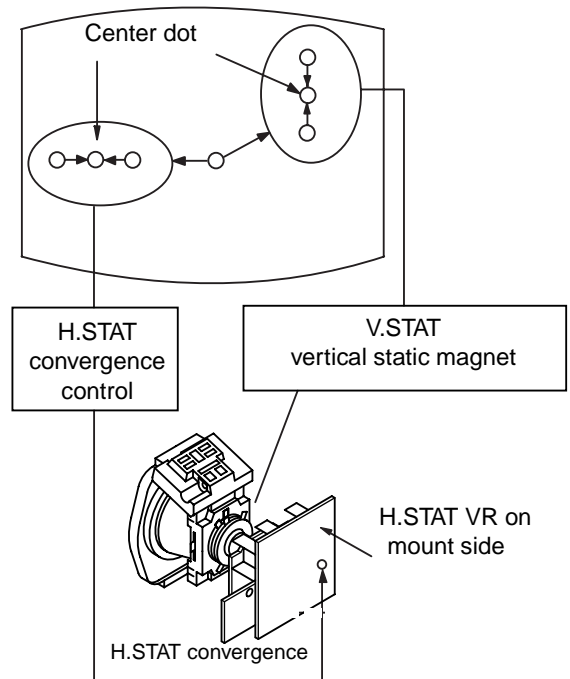
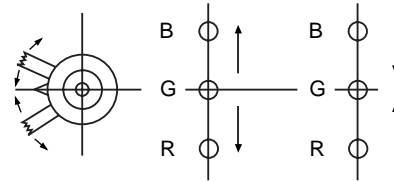


Fig. 3-5



By opening or closing the V.STAT magnet, the red, green and blue dots move as indicated below.



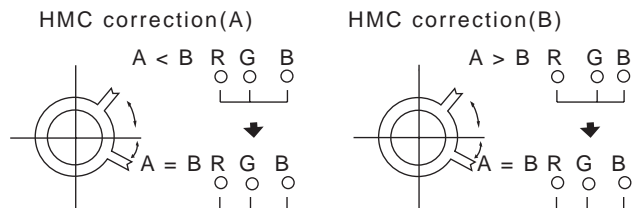
Note: Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

3-2. CONVERGENCE

(1) Screen centre convergence [Static convergence]

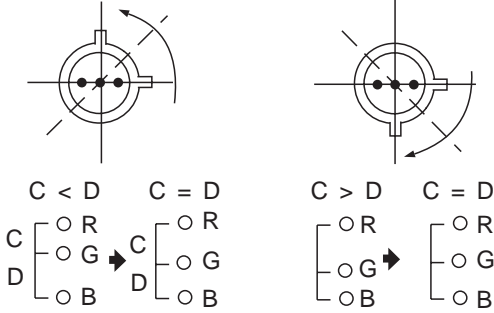
1. Input a dot signal from the pattern generator.
2. Normalize the picture setting.
3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.

4. 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.

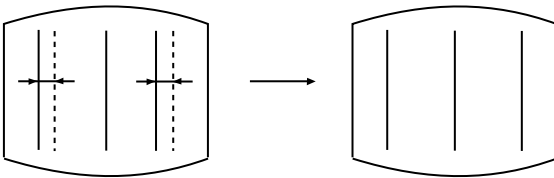


- b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.

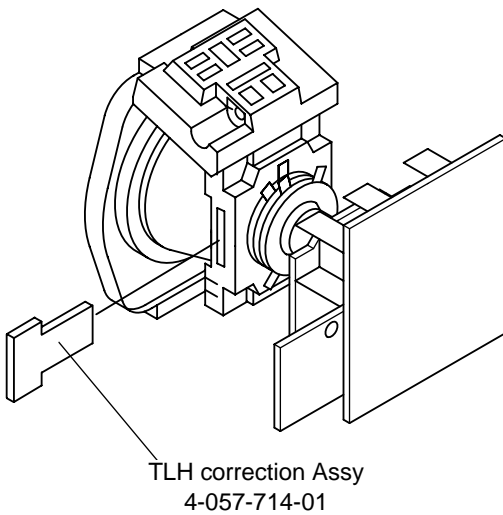
VMC correction(A) VMC correction(B)



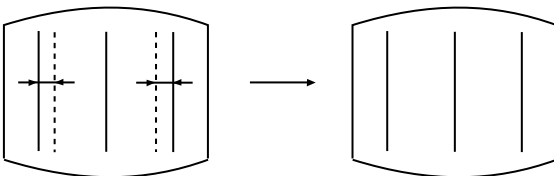
HAMP



6. HTIL correction can be performed by adding a THL correction ASSY to the DY.



HTIL



LAYOUT OF EACH CONTROL

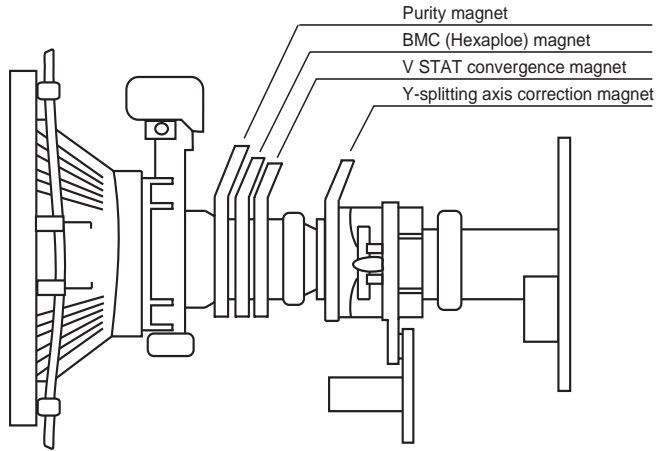
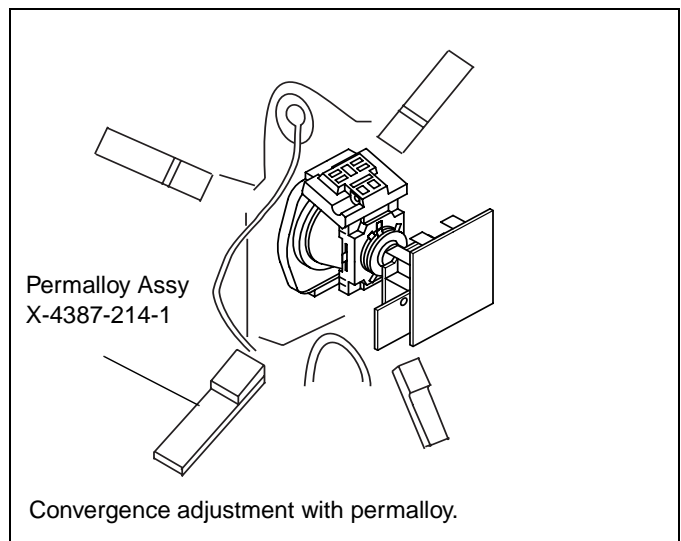
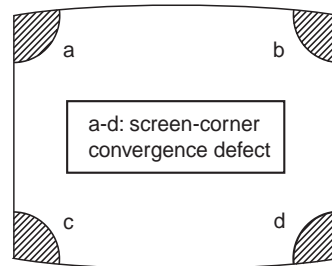


Fig 3-6

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



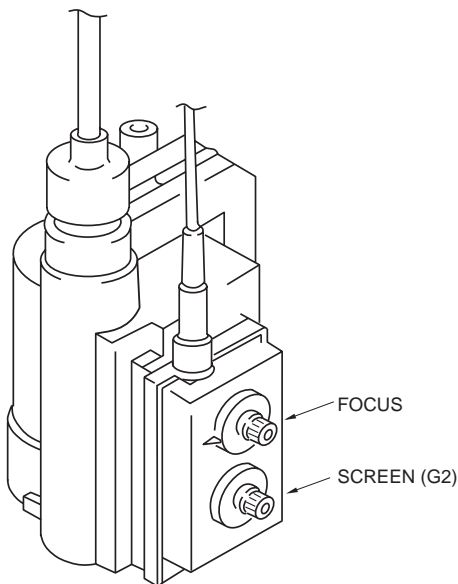
3-3. SCREEN (G2)

SCREEN G2 ADJUSTMENT

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust [SCREEN G2] located on the FBT [flyback transformer] to the point just before the flyback return lines disappear.

3-4. FOCUS

1. Receive a television broadcast signal.
2. Normalise the picture setting.
3. Adjust the focus control located on the FBT [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.



3-5. WHITE BALANCE

WHITE BALANCE ADJUSTMENT

1. Input an all white signal from the pattern generator.
2. Enter into the Service Mode.
3. Enter into the 'Picture Adjustment' service menu.
4. Select 'Sub contrast' and adjust to 7.
5. Select the 'Green drive' and adjust so that the white balance becomes optimum.
6. Select the 'Blue drive' and adjust so that the white balance becomes optimum.
7. Press the 'TV' button on the remote commander to return to TV operation.

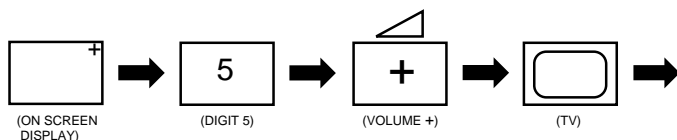
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustments to this model can be performed using the supplied Remote Commander RM-931.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch and enter into the stand-by mode.
2. Press the following sequence of buttons on the Remote Commander.



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

TEST MENU

> Picture Adjustment
 Geometry
 Wide
 IC status
 MSP
 Dynamic Convergence
 Current TV status

4. Move to the corresponding adjustment using the Up/Down Arrow button on the remote commander.
5. Press the Right Arrow button to enter the selected adjustment.
6. Turn off the power to quit the service mode when adjustments have been completed.

PICTURE ADJUSTMENT

AFC mode	1
REF position	1
SCP BGR	1
SCP BGF	1
Trap fo	10
Sub contrast	Adj
Sub colour	Adj
Sub brightness	Adj
Green drive	Adj
Blue drive	Adj
Green cutoff	Adj
Blue cutoff	Adj
Gamma	0
Pre / overshoot	3
Y delay	2
D Pic	ON
D Colour	OFF
DC Transfer	OFF

GEOMETRY ADJUSTMENT - 4:3

V size	Adj
V position	Adj
S Correction	Adj
V Linearity	Adj
H size	Adj
H position	Adj
Pin Amp	Adj
Pin Phase	Adj
AFC Bow	Adj
AFC Angle	Adj
EHT V	1
EHT H	0
Lo Corn Pin	Adj
Up Corn Pin	Adj

WIDE ADJUSTMENT - 4:3

V Aspect	0
V Scroll	31
Upper V Lin	0
Lower V Lin	0
Left Blanking	7
Right Blanking	7

MSP	
NICAM Prescale I	127
NICAM Prescale L	97
NICAM Prescale BG	97
NICAM Prescale DK	97
AGC ON/OFF	ON
Constant gain CDB	0
FM prescale FMP	36
Zwei mono-st WHI	36
Zwei st-mono WLO	18
Zwei mono-bi WMH	36
Zwei bi-mono WLO	18
Time Zwei WML	41
Fawct limit	10
Fawct soll init FAW	12
Faw ER Tol	2
Nicam Err Max CCT	10
Nicam Err Min	0
Time Nicam	26
Audio clock ACO	HIZ
Scart prescale	25
Scart volume	64

IC STATUS (CXA2076 / CXA2040)	
CXA2076	
H lock	1
IKR	1
VNG	0
X-RAY	0
Colour system	7
CV1 sync	0
CXA2040	
Sync sep	1
S1 mode pin	01
S2 mode pin	01
TUNER	
Tuner status	01100010

TV STATUS BE3E	
Text system	C TEXT 2
Dolby Enabled	NO
DSP Present	NO
Text language set	WEST
Menu language set	EAST
Destination	B
Ageing	Disabled
Auto Shut Off	Enabled
Size	28
Colour trap sw	ALL
Velocity mod	ON
AFT STATUS	WINDOW
Digital RF	NO

Dynamic Convergence	
Range	Adj 0 - 42
H stat	Adj Off - 63
H amp l	Adj Off - 63
H amp r	Adj Off - 63
Up Y	Adj Off - 63
Low Y	Adj Off - 63
Y up l	Adj Off - 63
Y up r	Adj Off - 63
Y low l	Adj Off - 63
Y low r	Adj Off - 63
Mbow up l	Adj Off - 63
Mbow up r	Adj Off - 63
Mbow low l	Adj Off - 63
Mbow low r	Adj Off - 63
V Stat	Adj Off - 63

SUB BRIGHTNESS ADJUSTMENT

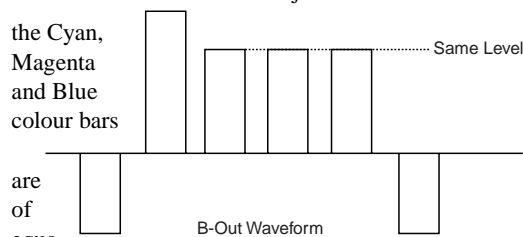
1. Input a Phillips pattern.
2. Set the picture control to minimum.
3. Enter into the 'Picture Adjustment' service menu.
4. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains a small 100% area on a black background.
2. Set the picture control to maximum.
3. Connect an oscilloscope to Pin 3 of CN301 [A Board].
4. Enter into the 'Picture Adjustment' service menu.
5. Adjust the 'Sub-contrast' data to obtain a black to white amplitude of 2.20V.

SUB COLOUR ADJUSTMENT

1. Receive a PAL colour bar video signal.
2. Connect an oscilloscope to Pin 3 of CN301 [A Board].
3. Enter into the 'Picture Adjustment' service menu.
4. Adjust the 'Sub-colour' data so that



are of equal height as indicated below.

SYSTEM B/G, D/K, I & L I.F ADJUSTMENT

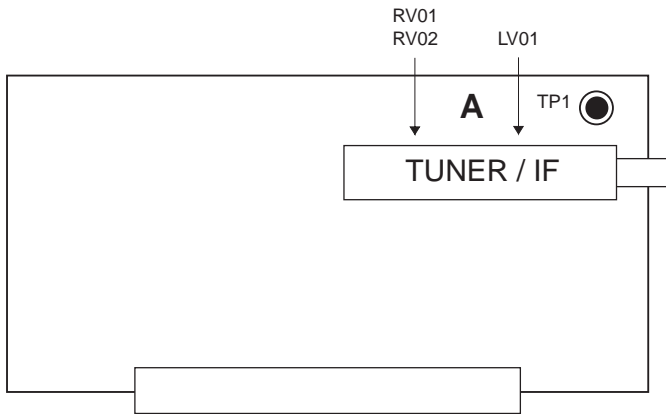
1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
2. Enter into the 'IF Adjustment' service mode [i.e 'TT59'] to fix the I.F frequency to 39.9MHz.
3. Enter into the service mode and select 'Current TV status'.
4. Adjust the I.F coil [LV01] until the 'AFT Status' indicates a 'Window' condition.

SYSTEM L BAND 1 I.F ADJUSTMENT

1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
2. Enter into the 'IF Adjustment' service mode [i.e 'TT59'] to fix the I.F frequency to 34.2MHz.
3. Enter into the service mode and select 'Current TV status'.
4. Adjust the RV02 control until the 'AFT Status' indicates a 'Window' condition.

TUNER AGC ADJUSTMENT

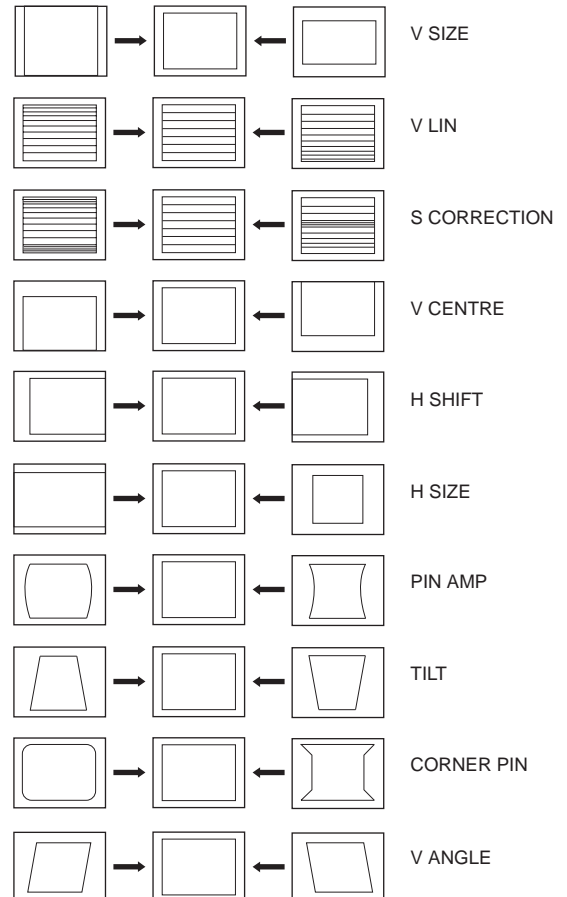
1. Receive a signal of 63dBuV / 75 ohm terminated, via the tuner socket.
2. Measure the voltage at test point 1 [A Board].
3. Adjust RV01 control to obtain a voltage of 3.0V +/- 0.3V.



DEFLECTION SYSTEM ADJUSTMENT

1. Enter into the 'Geometry Adjustment' service menu.
2. Select and adjust each item in order to obtain the optimum image.

GEOMETRY ADJUSTMENT	
V size	Adj
V position	Adj
S Correction	Adj
V Linearity	Adj
H size	Adj
H position	Adj
Pin Amp	Adj
Pin Phase	Adj
AFC Bow	Adj
AFC Angle	Adj
EHT V	1
EHT H	0
Lo Corn Pin	Adj
Up Corn Pin	Adj



4-2. 'TT' TEST MODE :

'TT' Mode is available by pressing the Test key twice. It is exited by pressing 0 twice, or by pressing the Test key, or by pressing the TV key, or by switching the set into standby.

The functions described below are available by pressing 2 digits:

00	Cancel Test mode
01	Picture Maximum
02	Picture Minimum
03	Volume & Headphone Volume 35%
04	Volume & Headphone Volume 50%
05	Volume & Headphone Volume 65%
06	Volume & Headphone Volume 80%
07	Ageing mode Enable/Disable
08	Shipping Condition
09	Display TV status
10	No function
11	Sub Picture adjustment
12	Sub Colour adjustment
13	Sub Brightness adjustment
14	Text H-Position adjustment (use Cursor <- & -> to adjust)
15	Rotation Test
16	No function
17	No function
18	No function
19	No function
20	No function
21	Destination A/D (East Menu/West Text)
22	Destination L (West Menu/West Text)
23	Destination E (West Menu/West Text)
24	Destination U (West Menu/ West Text)
25	Destination D (East Menu/Greek Text)
26	Destination B (East Menu/West Text)
27	Destination K (East Menu/East Text)
28	Destination R (Russian Menu/Russian Text)
29	No function
30	No function
31	Toggle Auto Shutoff Disable
32	No function
33	No function
34	No function
35	No function
36	No function
37	No function
38	Default Dynamic Convergence Settings
39	<i>Reserved for Dealer Commander</i>
40	No function
41	Re-initialize the NVM

42	Re-initialise geometry settings
43	Default Programme info in NVM with factory settings
44	Default favourite pages to 100,101,102 and 103
45	Switch off all Parental locks
46	<i>Reserved for Dealer Commander</i>
47	Default MSP settings
48	Set NVM as Non-virgin
49	Set NVM as virgin
50	No function
51	Dolby Pro-Logic On, Volume 90%
52	Noise On Left Speaker
53	Noise On Right Speaker Only
54	Noise On Centre Speaker Only
55	Noise On Surround Speaker Only
56	Set Colour to Minimum and Picture to Maximum
57	Set Colour and Picture to Minimum and Adjust Sub-Brightness
58	No function
-	No function
60	No function
61	Erase SAT NVM
62	Mode Switch Analogue to SAT (Selected number)
63	Mode Switch Analogue to SAT (Last SAT channel)
64	Send SAT into standby (toggle function)
65	SAT Auto Reset (Enabled/Disabled)
66	Reset SAT Front Panel/Main Micro
67	Copy Protect Feature Enable/Disable
68	Pre-set AV Labels
69	No function
70	No function
71	Select Compact Text/Compact Text-2
72	Balance Left/Right (press ← key for balance left, → for balance right, and ↑ for centre balance)
73	Dual Sound Headphones (↑ key for A, ↓ key for B)
74	Dual Sound Speakers (↑ key for A, ↓ key for B)
75	DSP Bypass
76	Dolby Enabled/Disabled toggle
77	Setup trap switch
78	Set Screen Size
79	Wide Setup
80	No function
81	Velocity Mod ON
82	Velocity Mod OFF

83	Special Picture Mode - Personal mode, reset & brightness = 0
84	Text Interlace odd (Non interlace mode = 3)
85	Text Interlace even (Non interlace mode = 2)
86	Auto Cut Off ENABLE
87	Auto Cut Off DISABLE
88	Diagnostics OFF
89	Diagnostics ON
90	No function
91	Clear & disable OSD
92	Enable OSD
93	D/K Nicam Enable
94	D/K Nicam Disable
95	Reset language select menu on power up
96	Set all programme labels to default
97	No function
98	Download default geometry offsets to the NVM
99	No function

4-3. 'T' TEST MODE :

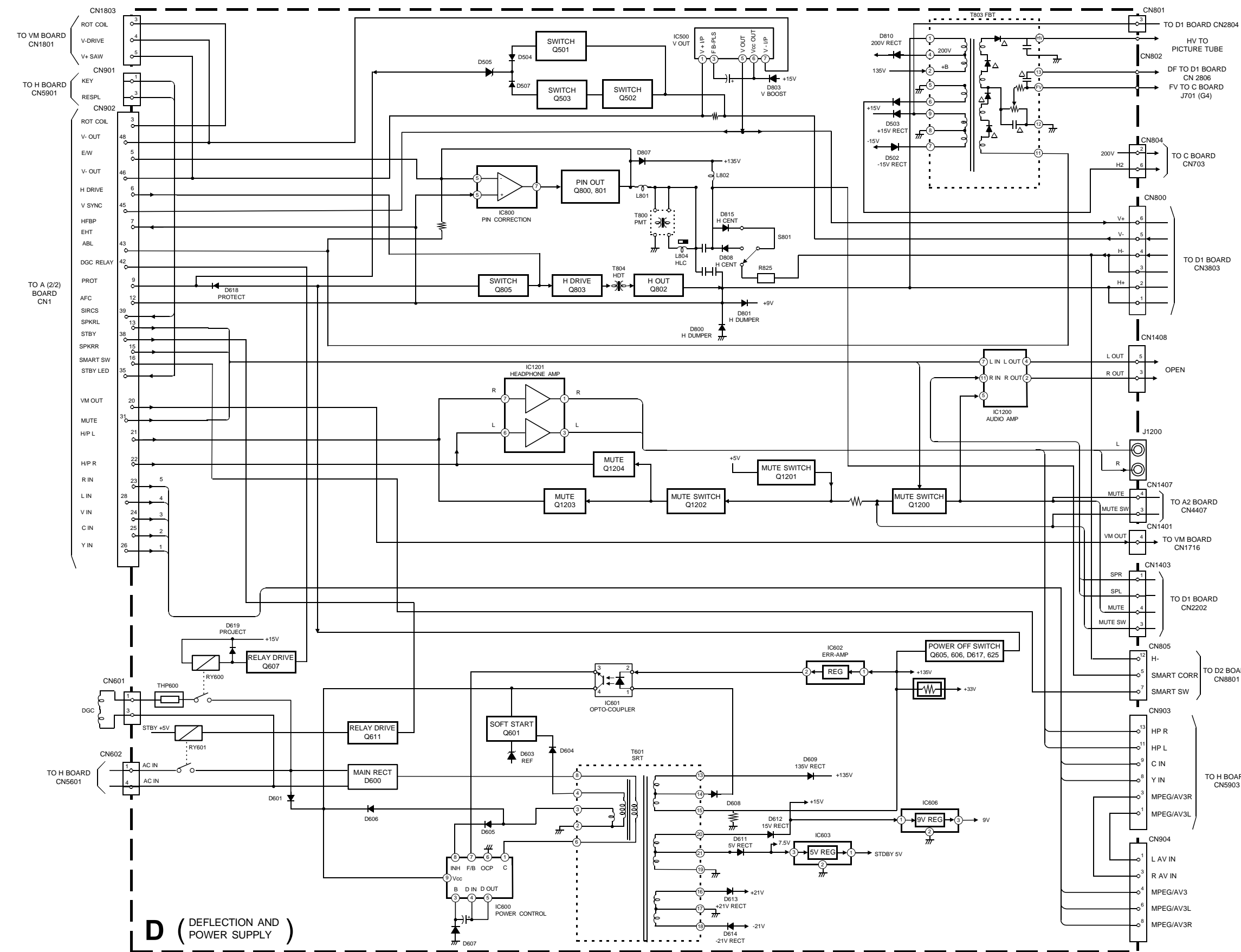
'T' Mode is available by pressing the Test key once. It is exited by pressing the Test key twice, or by pressing the TV key, or by switching the set into standby.

The functions described below are available by pressing the indicated key :

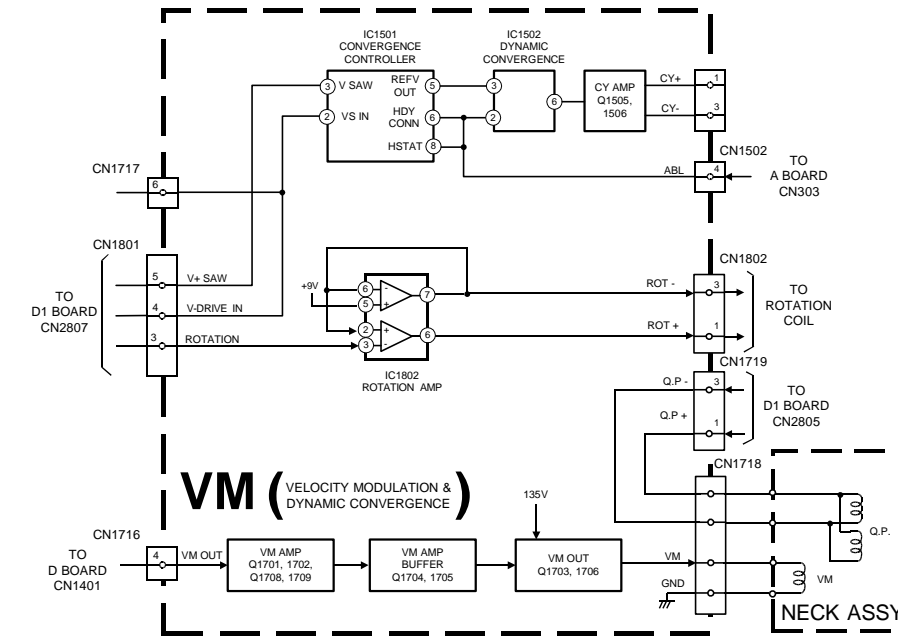
Key	T Mode Function
Volume +	Volume Maximum
Volume -	Volume Minimum
Picture +	Picture Maximum
Picture -	Picture Minimum
Colour +	Colour Maximum
Colour -	Colour Minimum
Brightness +	Brightness Maximum
Brightness -	Brightness Minimum
Hue +	Hue Maximum
Hue -	Hue Minimum
Sharpness +	Sharpness Maximum
Sharpness -	Sharpness Minimum
Balance Left	Balance Full Left
Balance Right	Balance Full Right
Treble +	Treble Maximum
Treble -	Treble Minimum
Bass +	Bass Maximum
Bass -	Bass Minimum
Analogue +	Select Analogue Value Maximum
Analogue -	Select Analogue Value Minimum

5-1. BLOCK DIAGRAMS (2)

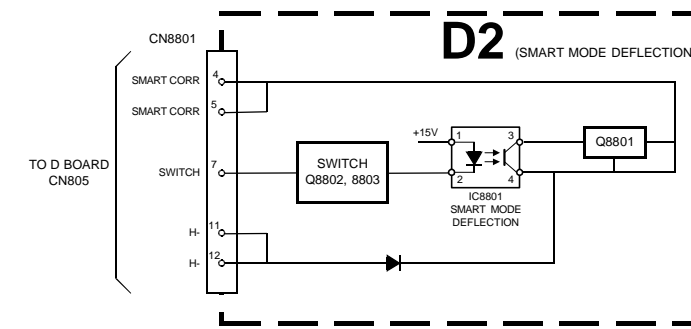
D [DEFLECTION AND POWER SUPPLY]



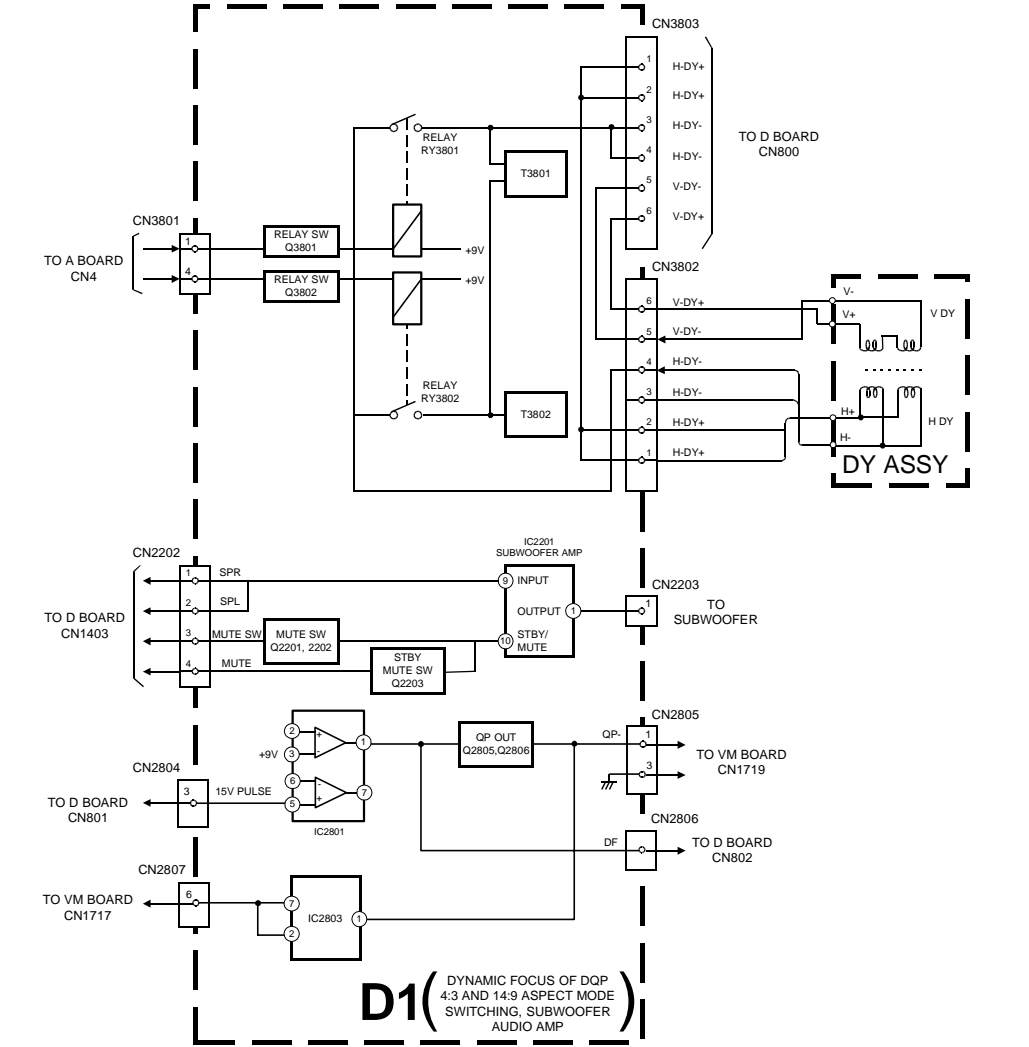
VM [VELOCITY MODULATION AND DYNAMIC CONVERGENCE]

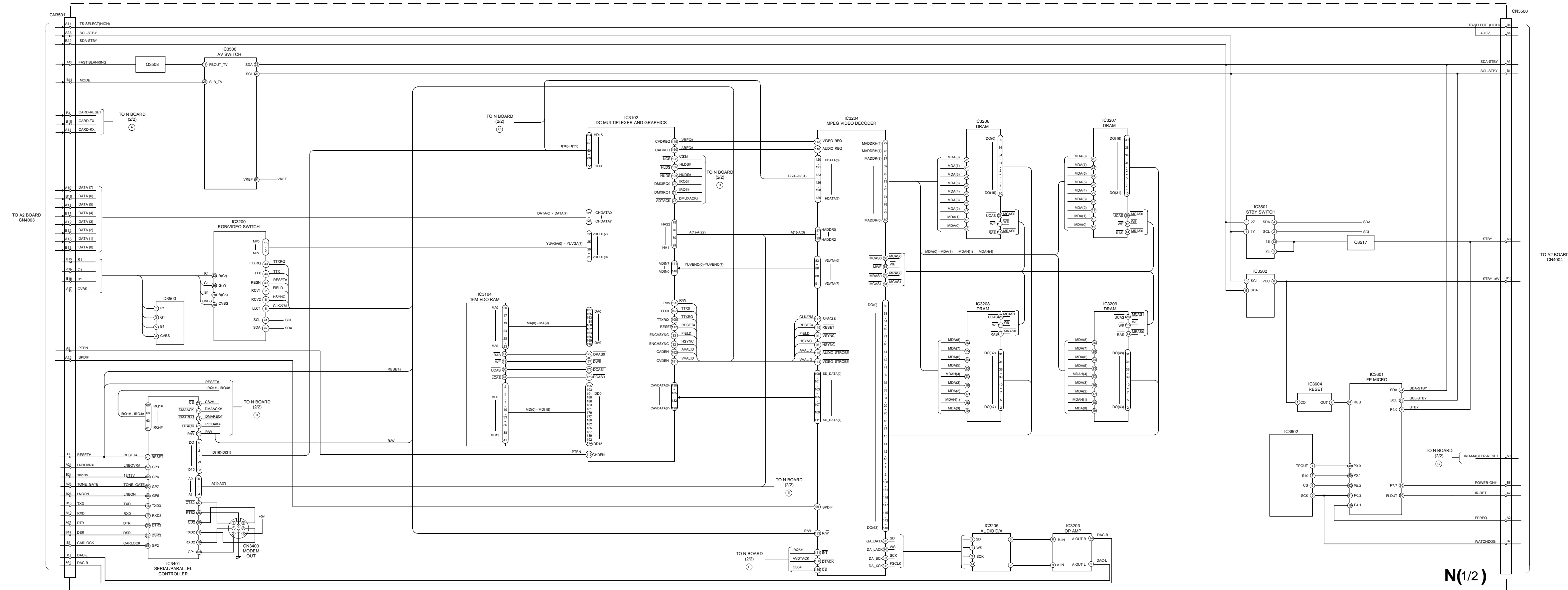


D2 [SMART MODE DEFLECTION]



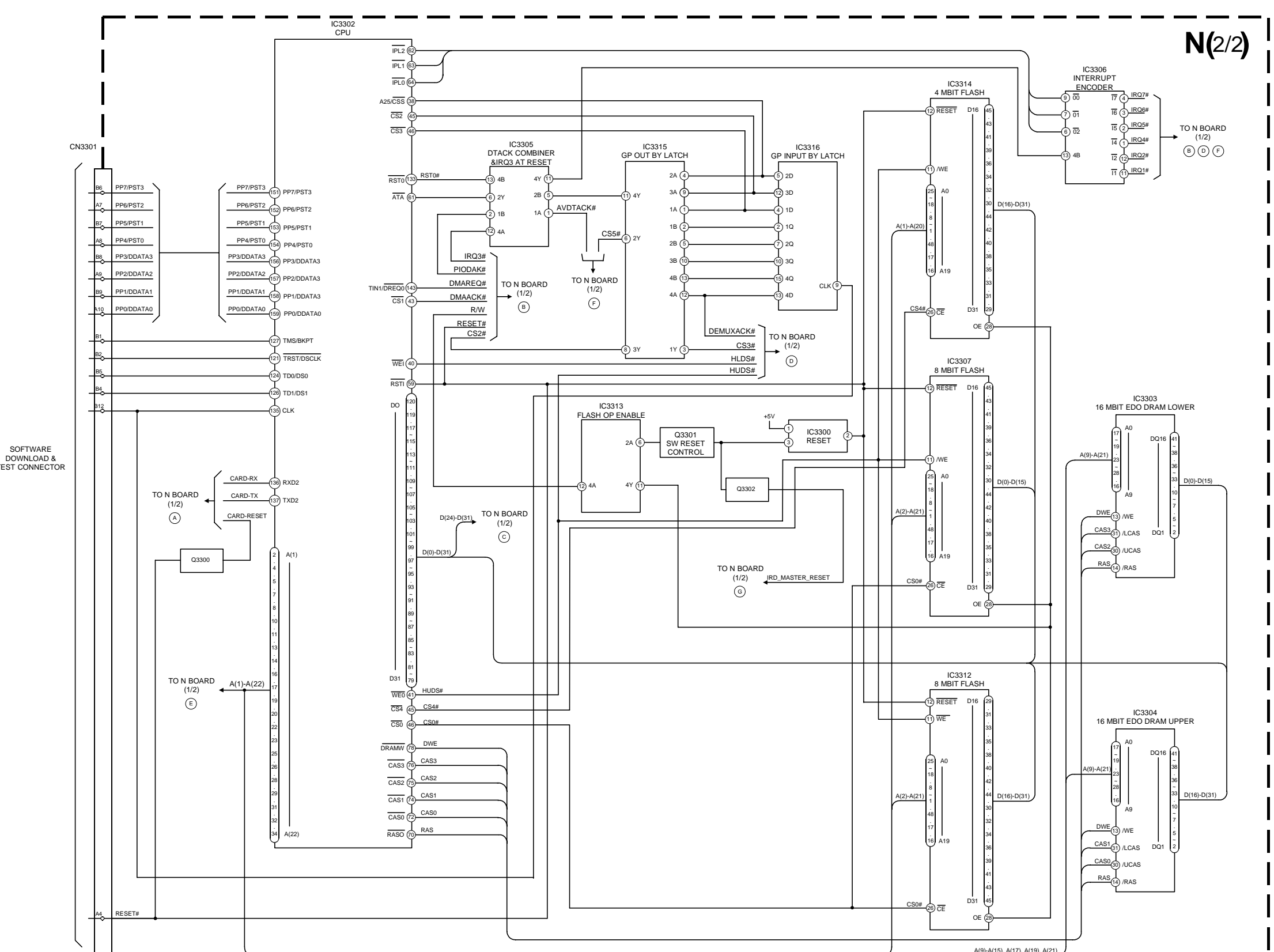
D1 [DYNAMIC FOCUS OF DQP & SUBWOOFER AUDIO AMP]



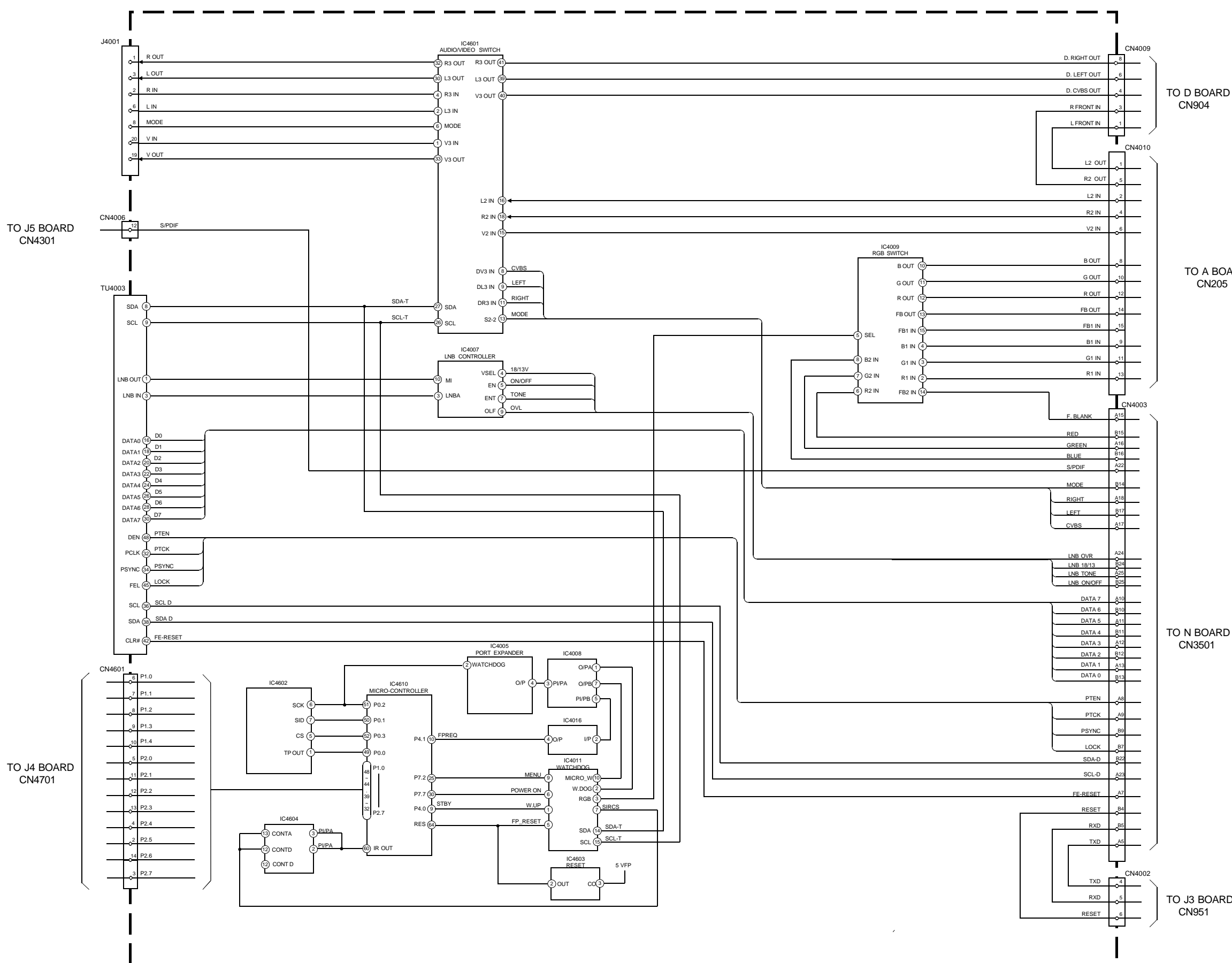


5-1. BLOCK DIAGRAMS (4)

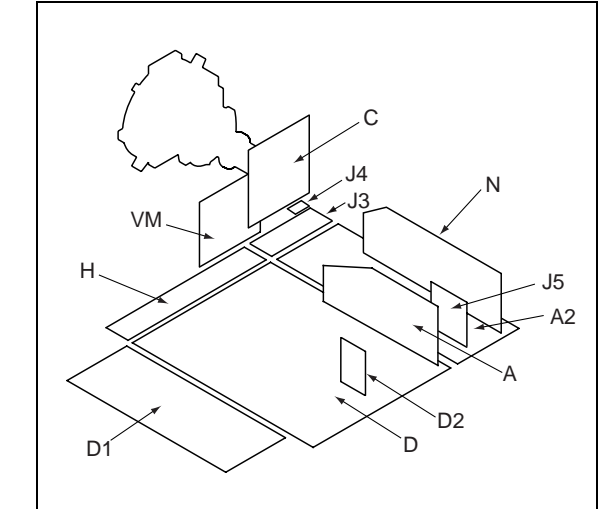
N [2/2 DIGITAL PROCESSING]



A2 [DIGITAL INTERFACE]



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

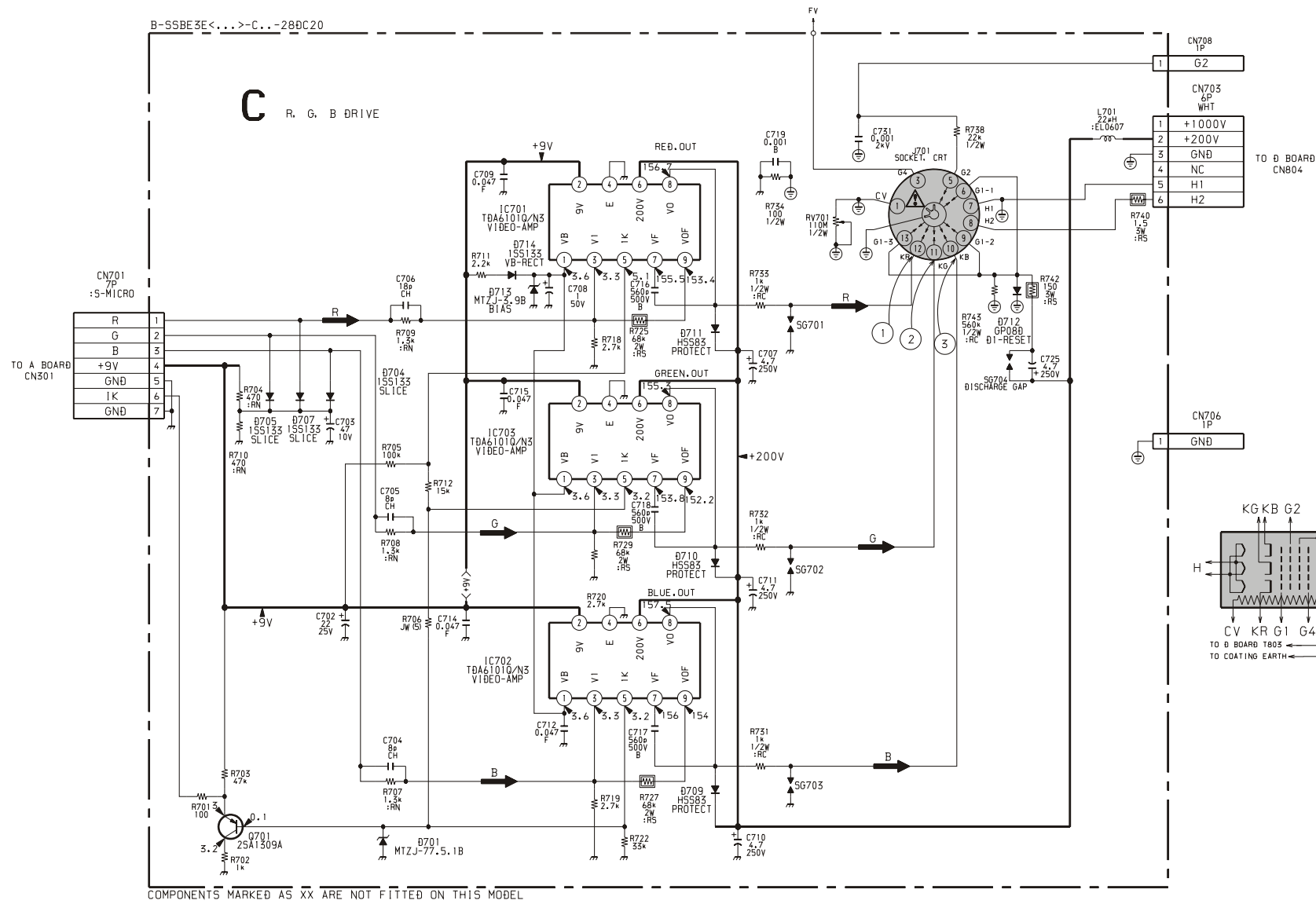
- Note :**
- All capacitors are in μF unless otherwise noted.
 - pF : μF 50WV or less are not indicated except for electrolytic types.
 - Indication of resistance, which does not have one for rating electrical power, is as follows.
- Pitch : 5mm
Electrical power rating : 1/4W
- Chip resistors are 1/10W
 - All resistors are in ohms.
 - $k = 1000 \text{ ohms}$, $M = 1000,000 \text{ ohms}$
- : 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

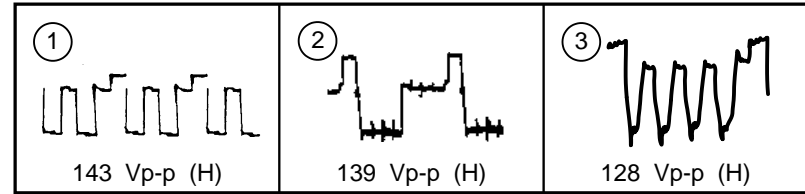
Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

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



COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

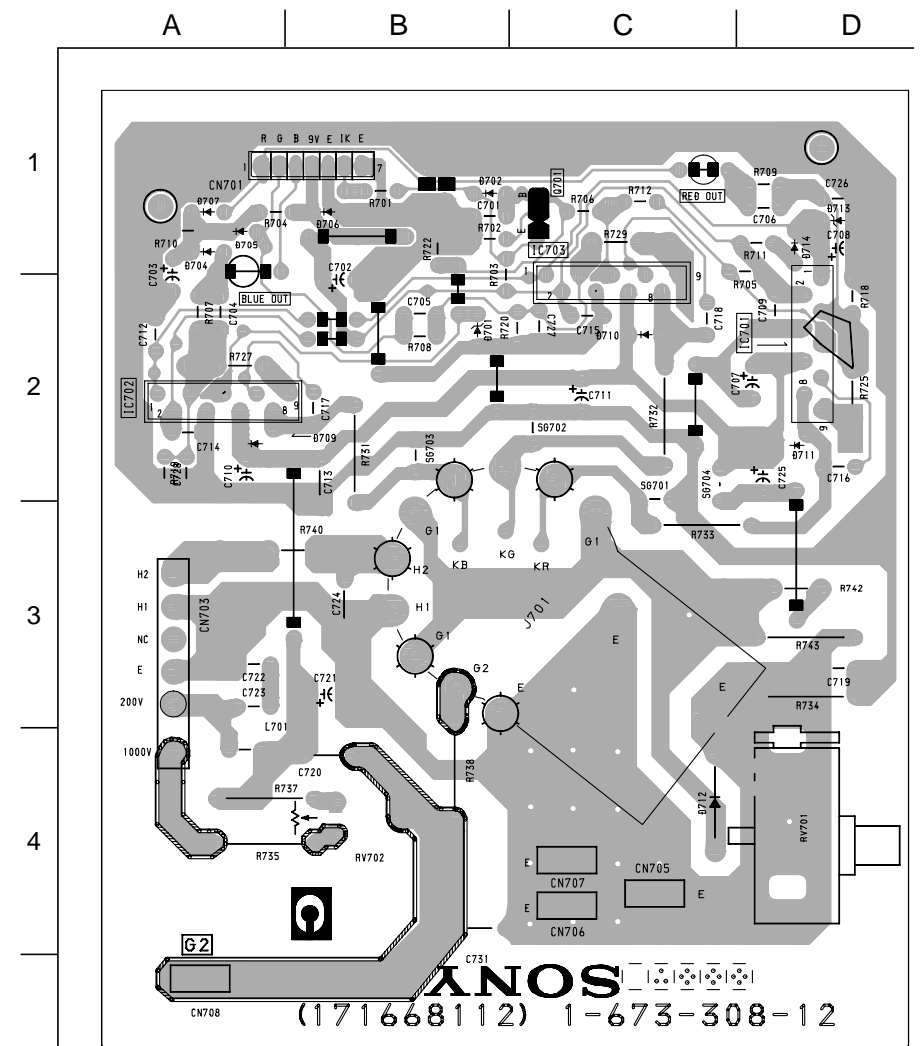
WAVEFORMS C BOARD

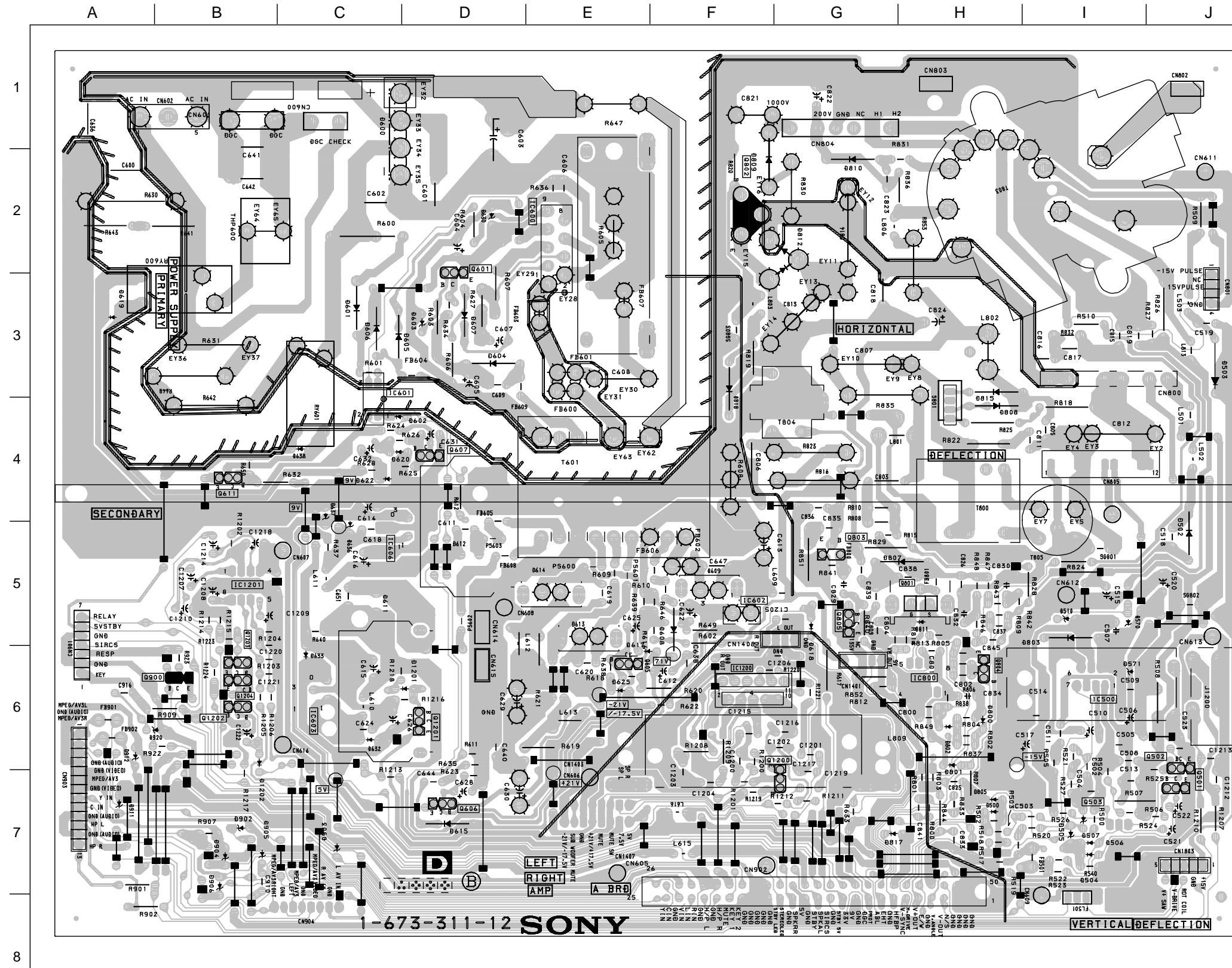


C BOARD LOCATION

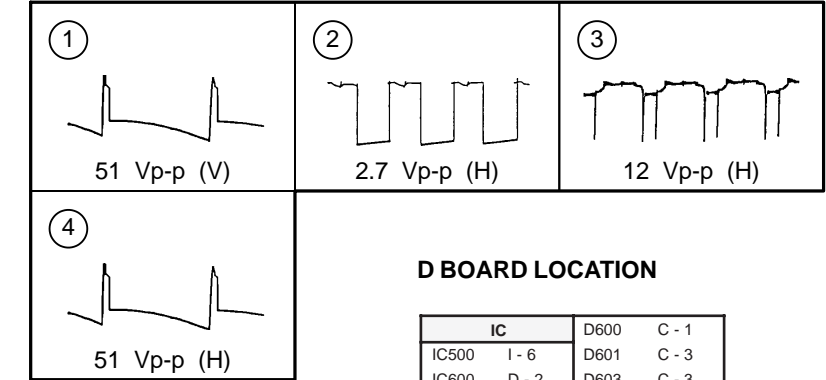
IC	
IC701	D - 2
IC702	A - 2
IC703	C - 1
TRANSISTOR	
Q701	C - 1
DIODE	
D701	B - 2
D704	A - 1
D705	A - 1
D707	A - 1
D709	B - 2
D710	C - 2
D711	D - 2
D712	C - 4
D713	D - 1
D714	D - 1

C [PRINTED WIRING BOARD]





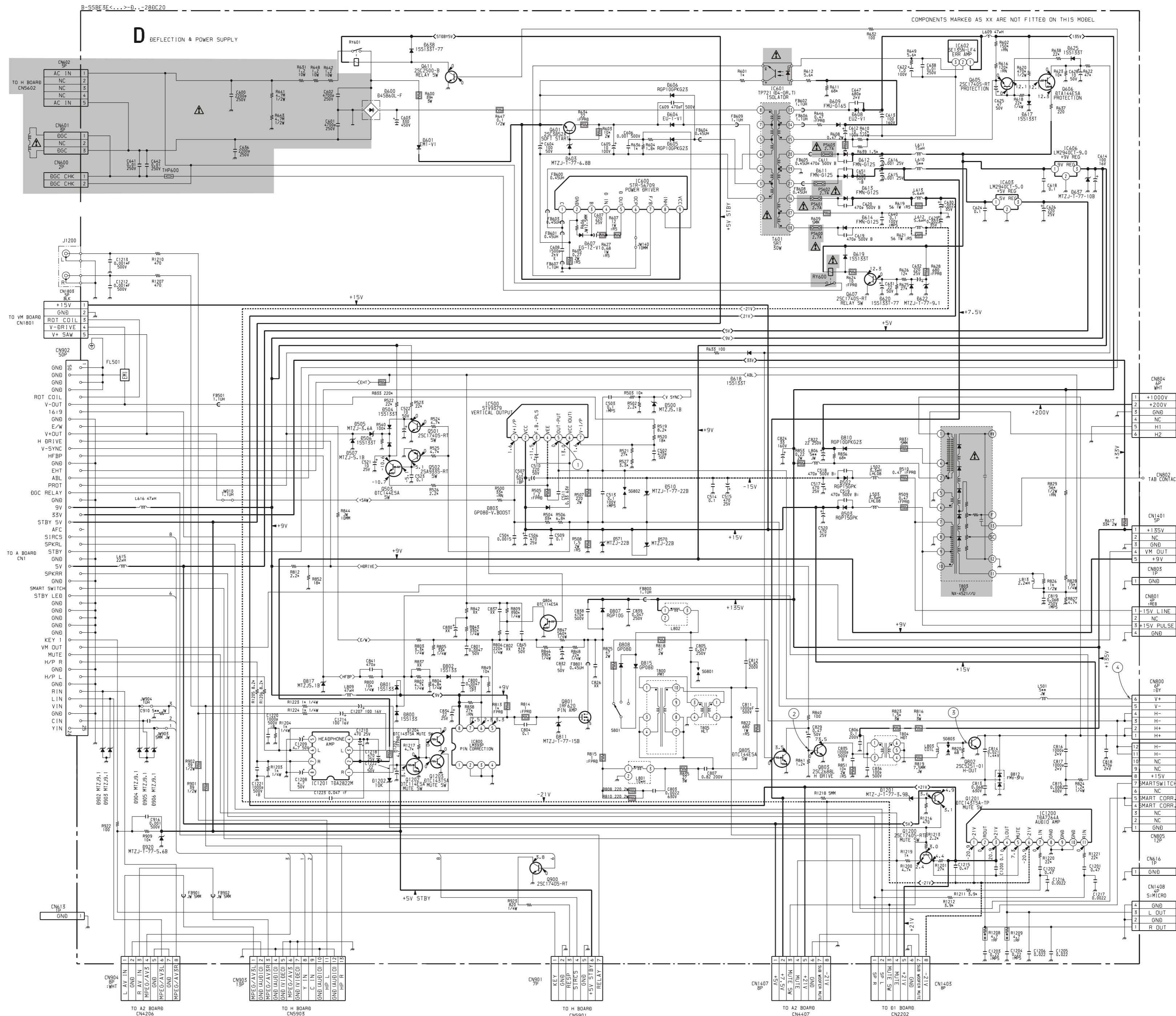
WAVEFORMS D BOARD



D BOARD LOCATION

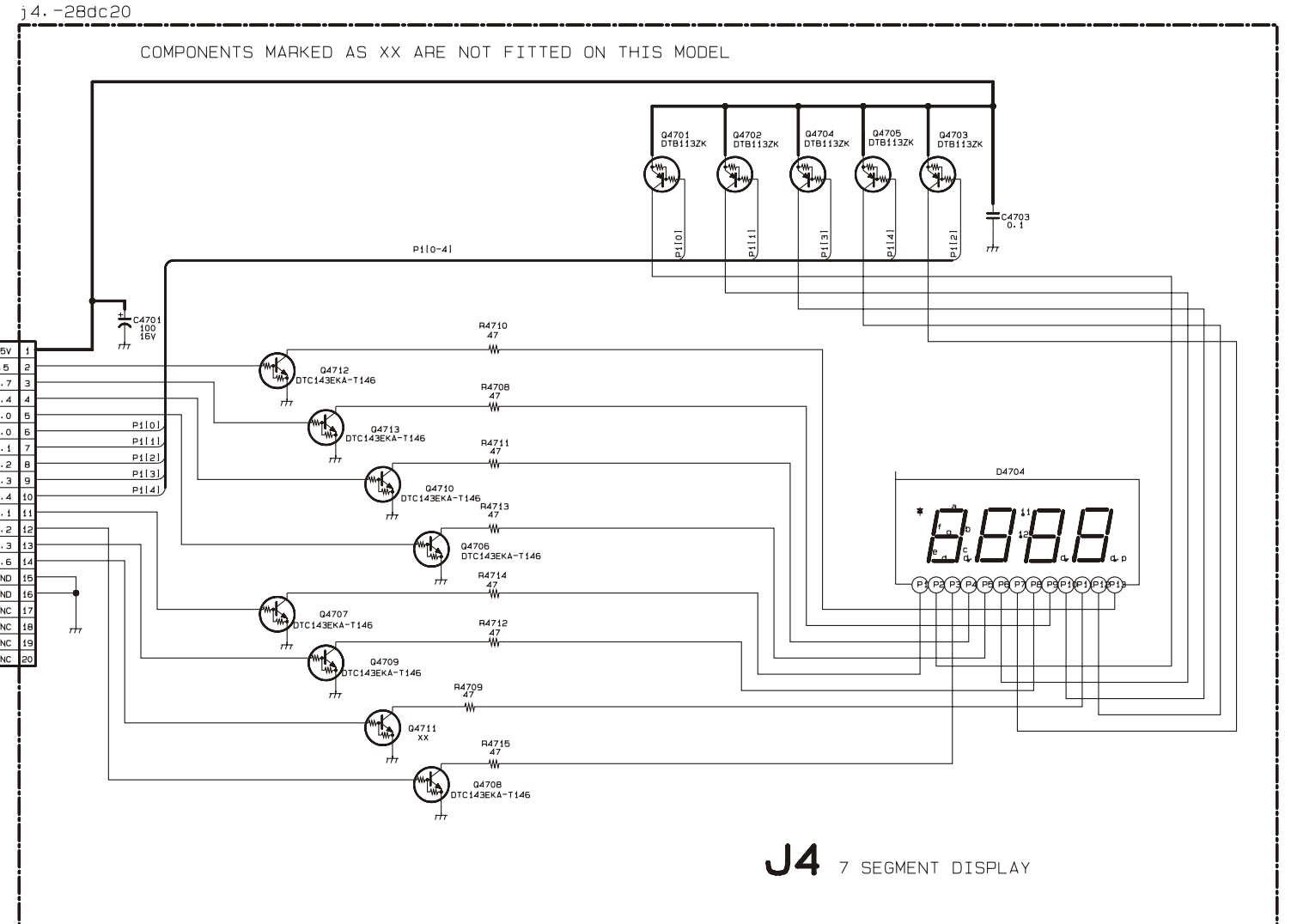
IC	D600	C-1	
IC500	I-6	D601	C-3
IC600	D-2	D603	C-3
IC601	C-3	D604	D-3
IC602	F-5	D605	C-3
IC603	C-6	D606	C-3
IC606	C-5	D607	D-3
IC800	H-6	D608	E-5
IC1200	F-5	D609	F-5
IC1201	B-5	D611	C-5
TRANSISTOR		D612	D-5
Q501	J-6	D613	E-3
Q502	I-6	D614	D-5
Q503	I-7	D617	E-5
Q601	D-2	D618	G-5
Q605	E-5	D619	A-3
Q606	D-7	D620	C-4
Q607	D-4	D622	C-4
Q611	B-4	D625	E-6
Q801	G-5	D637	C-4
Q802	F-1	D638	C-4
Q803	G-4	D800	H-6
Q804	H-5	D801	H-6
Q805	G-5	D802	H-6
Q900	A-6	D803	H-5
Q1200	F-6	D807	G-5
Q1201	D-6	D808	H-3
Q1202	B-6	D810	G-1
Q1203	B-5	D811	G-5
Q1204	B-6	D812	G-2
DIODE		D815	H-3
D500	H-7	D817	G-7
D502	J-4	D902	B-7
D503	J-3	D903	C-7
D504	I-7	D904	B-7
D505	I-7	D905	B-7
D506	I-7	D906	B-7
D507	I-7	D920	A-6
D510	I-5	D1201	C-6
D570	I-5	D1202	B-6
D571	I-6		

NOTE: Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shock during inspection or repair.

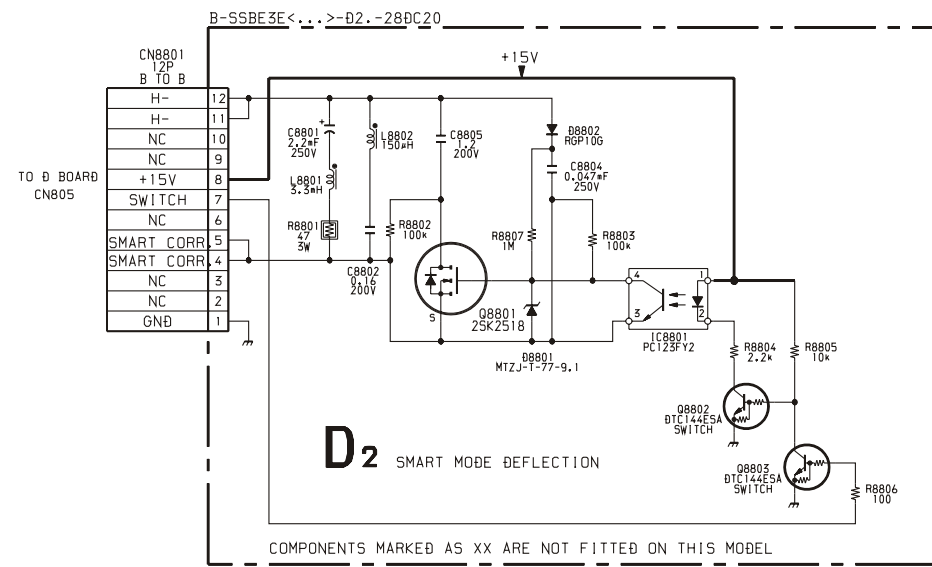


A
B
C
D
E
F
G
H
I
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K
L
M
N
O
P
Q
R
S
T

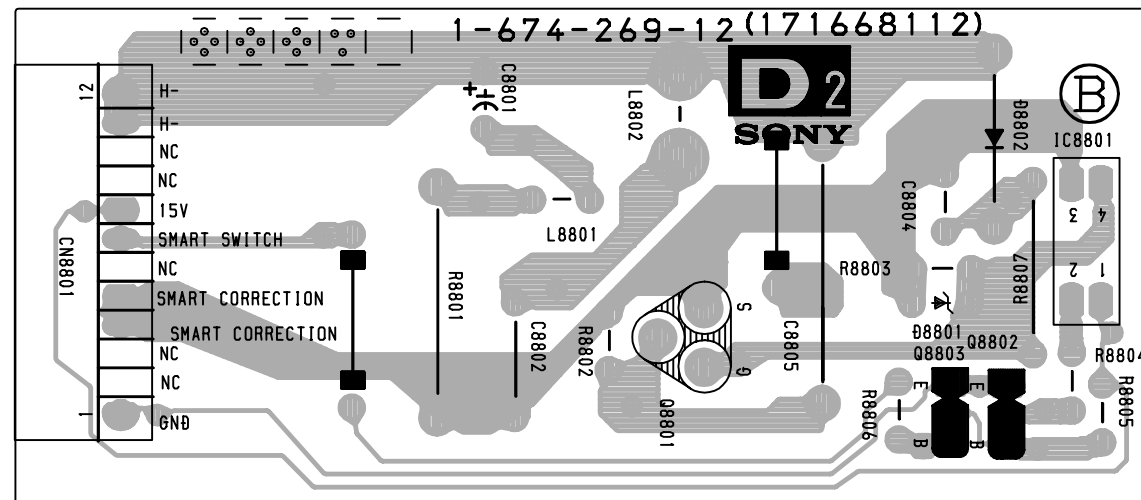
J4 [SEVEN SEGMENT DISPLAY]



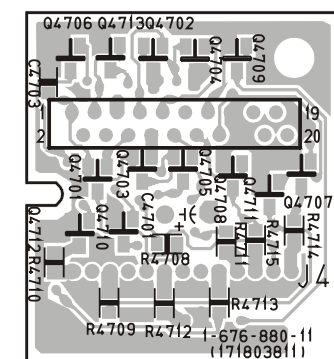
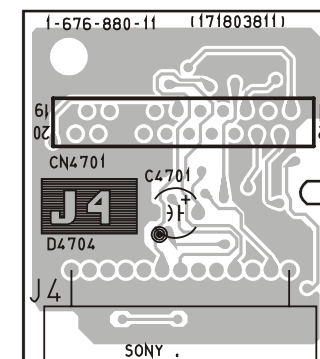
D2 [SMART MODE DEFLECTION]

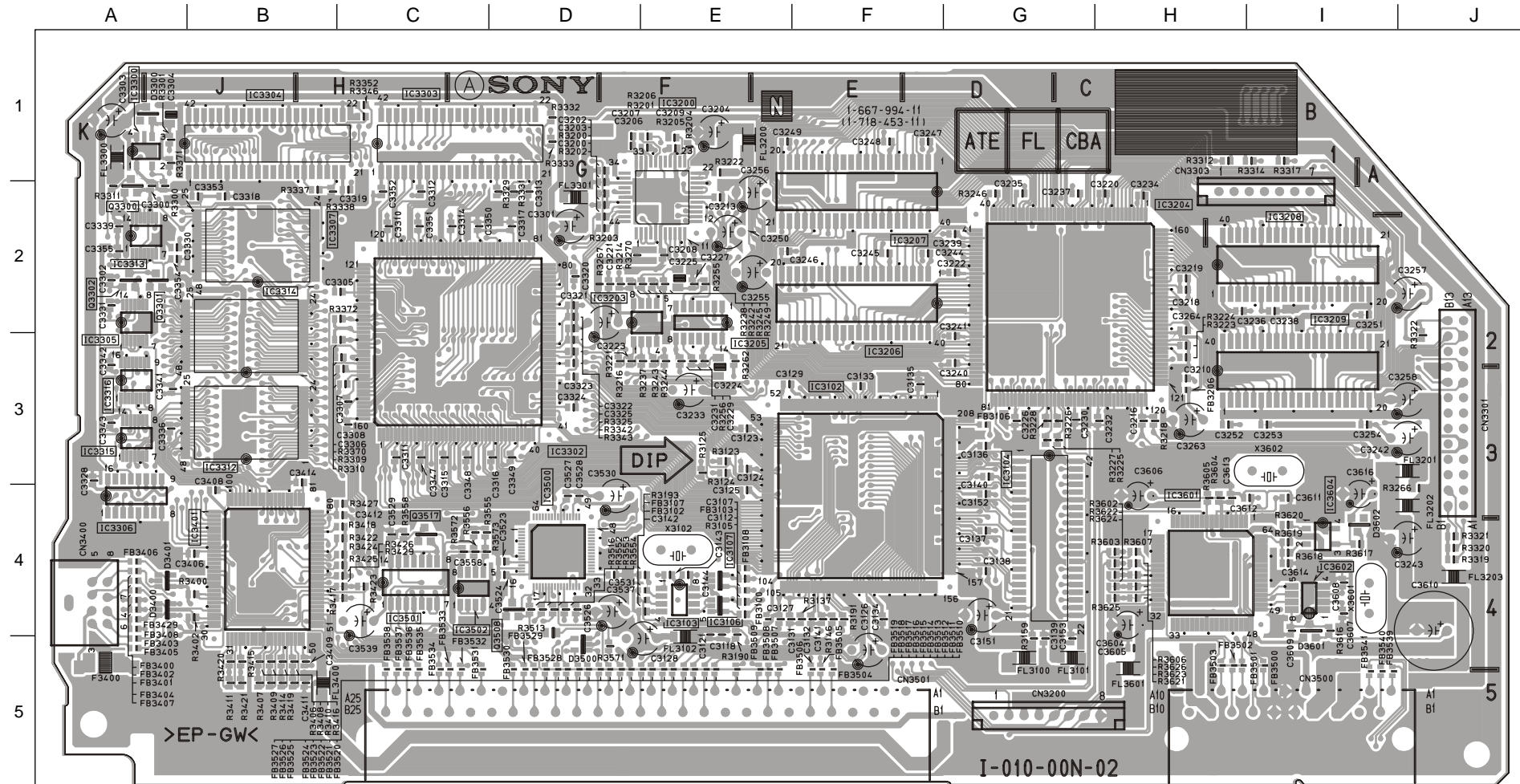


D2 [PRINTED WIRING BOARD]

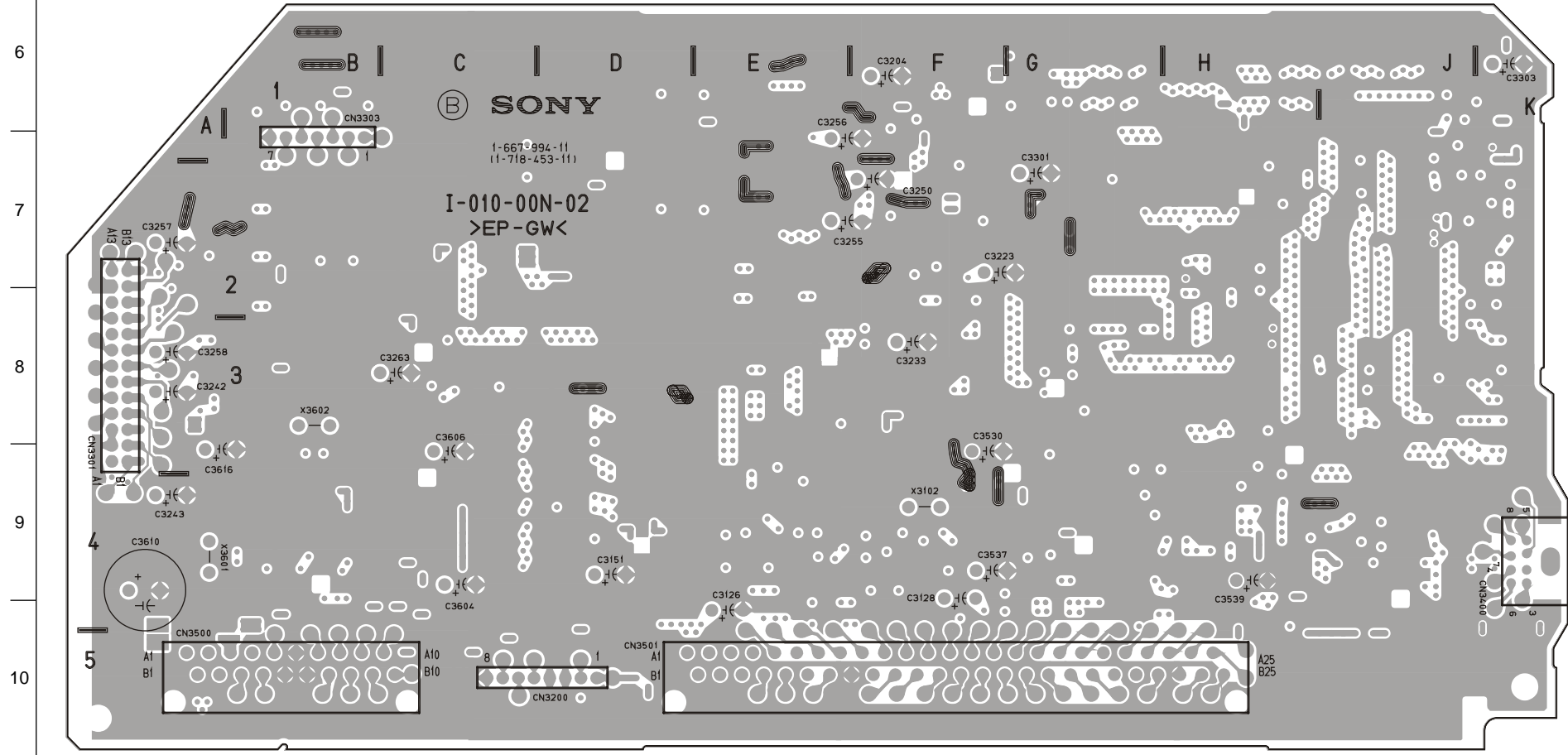


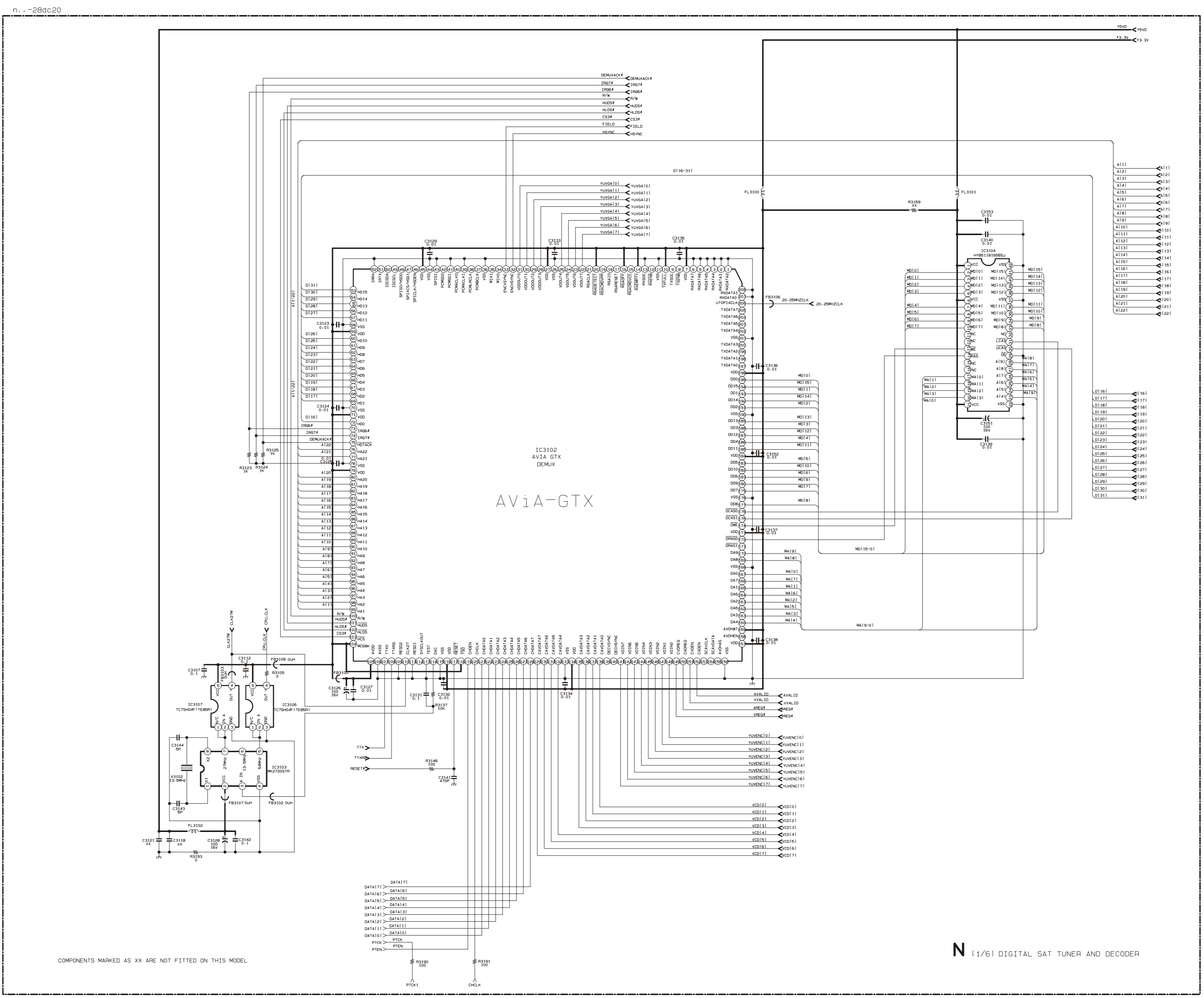
J4 [PRINTED WIRING BOARD]





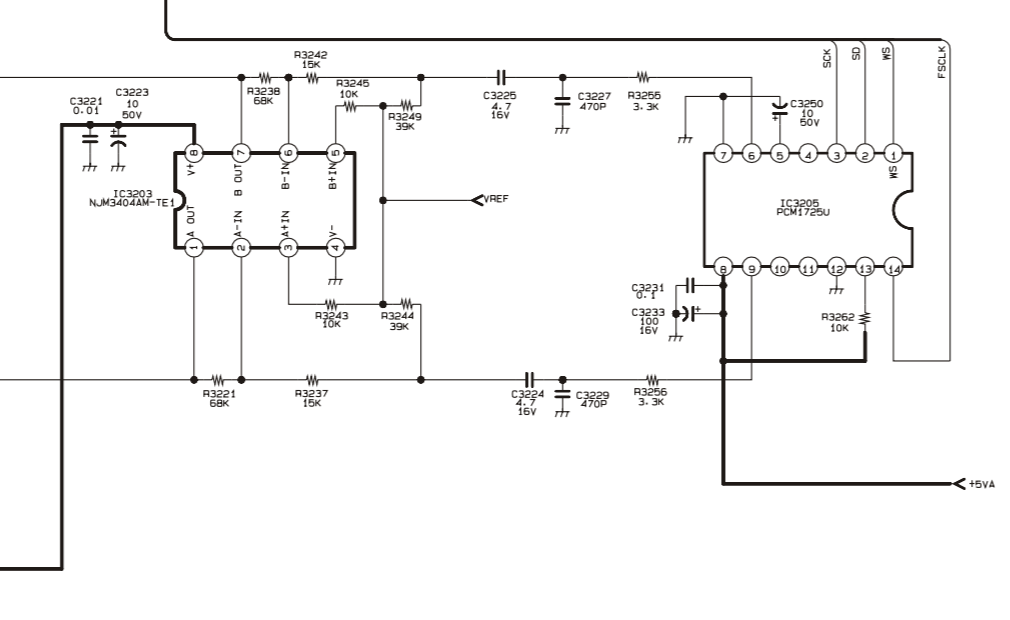
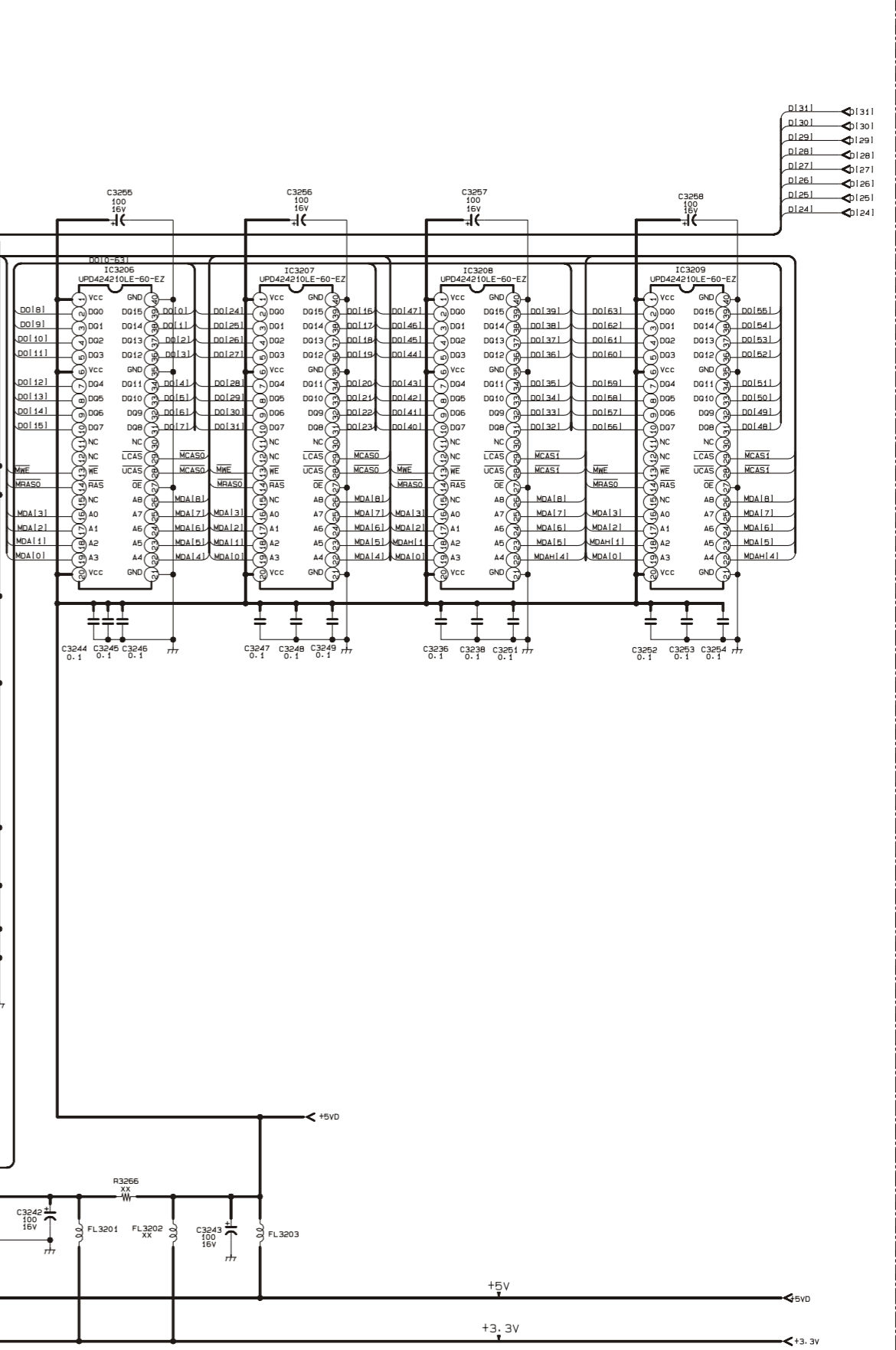
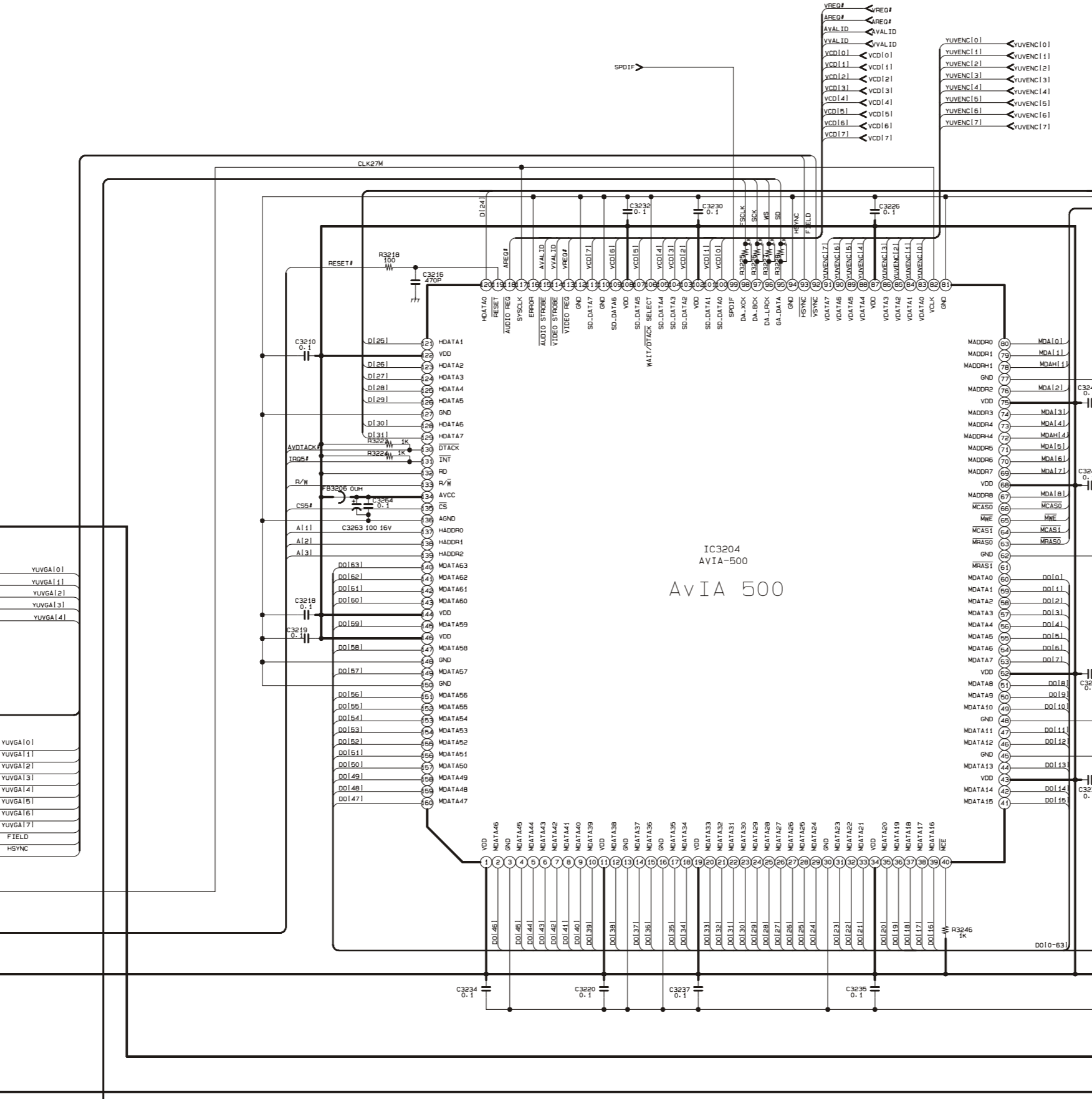
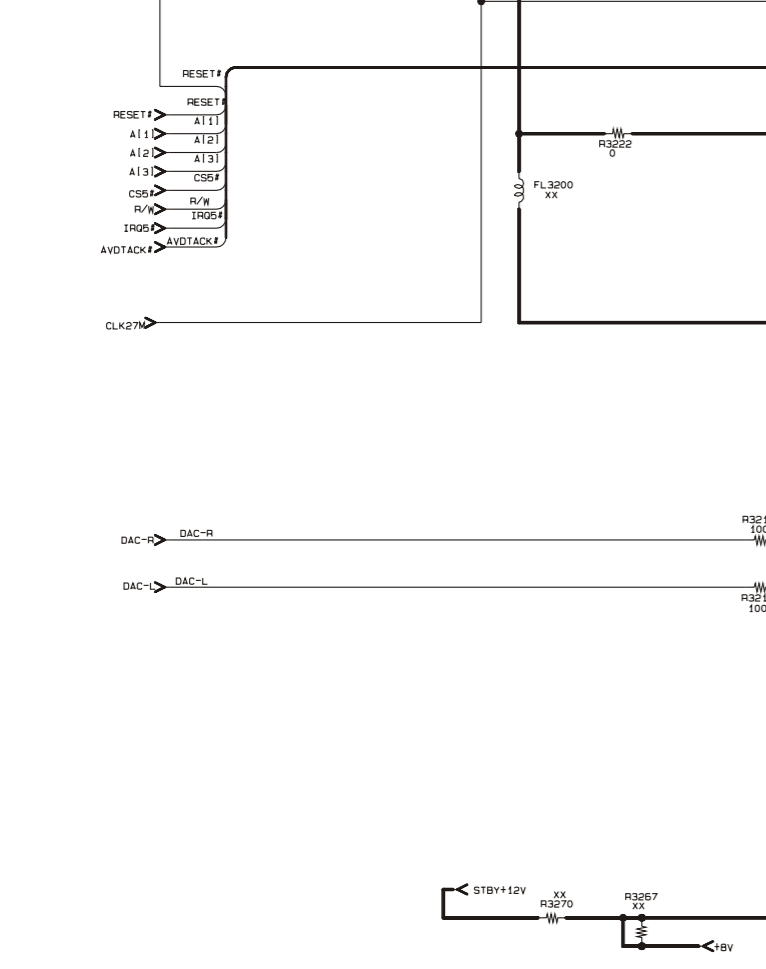
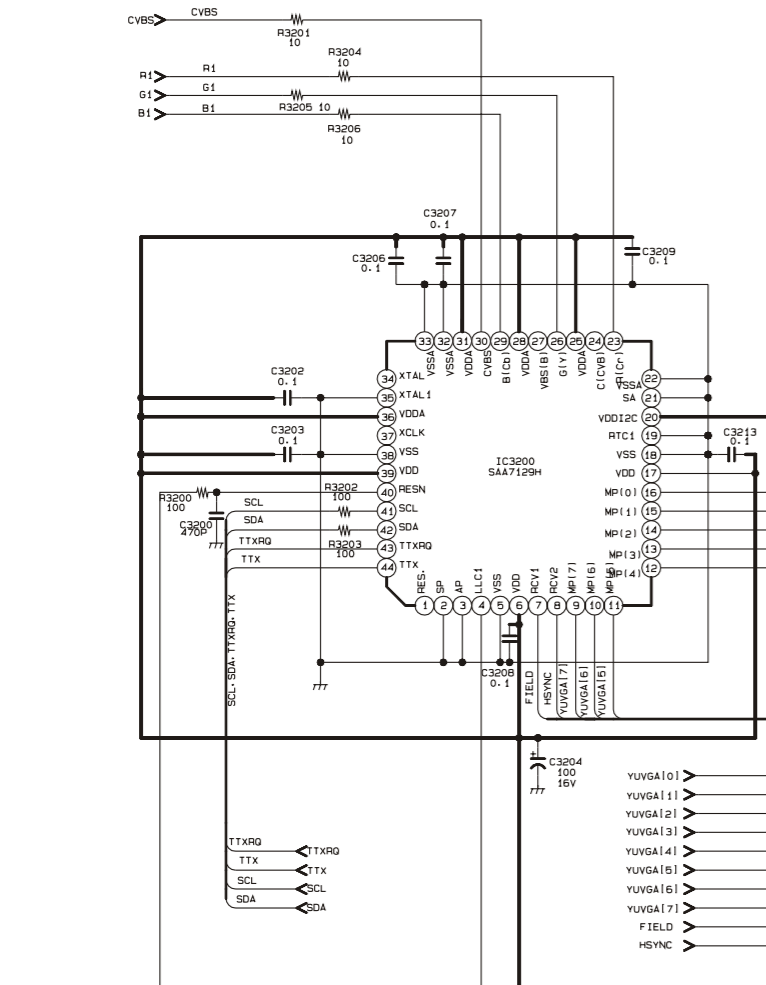
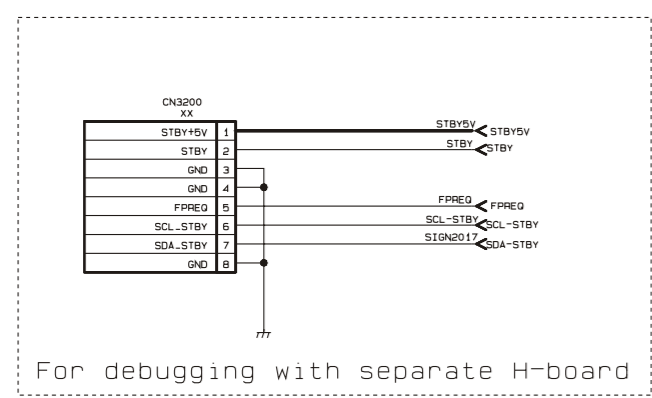
IC	
IC3102	F - 3
IC3103	E - 4
IC3104	G - 3
IC3106	E - 4
IC3107	E - 4
IC3200	E - 1
IC3203	D - 2
IC3204	H - 2
IC3205	E - 3
IC3206	F - 2
IC3207	F - 2
IC3208	I - 2
IC3209	I - 2
IC3300	A - 1
IC3302	D - 3
IC3303	C - 1
IC3304	B - 1
IC3305	A - 3
IC3306	A - 4
IC3307	B - 2
IC3312	B - 3
IC3313	A - 2
IC3314	B - 2
IC3315	A - 3
IC3316	A - 3
IC3401	A - 4
IC3500	D - 3
IC3501	C - 4
IC3502	C - 4
TRANSISTOR	
Q3300	A - 2
Q3301	A - 2
Q3302	A - 2
Q3508	C - 4
Q3517	C - 4
DIODE	
D3300	A - 1
D3400	A - 4
D3401	A - 4
D3500	D - 5





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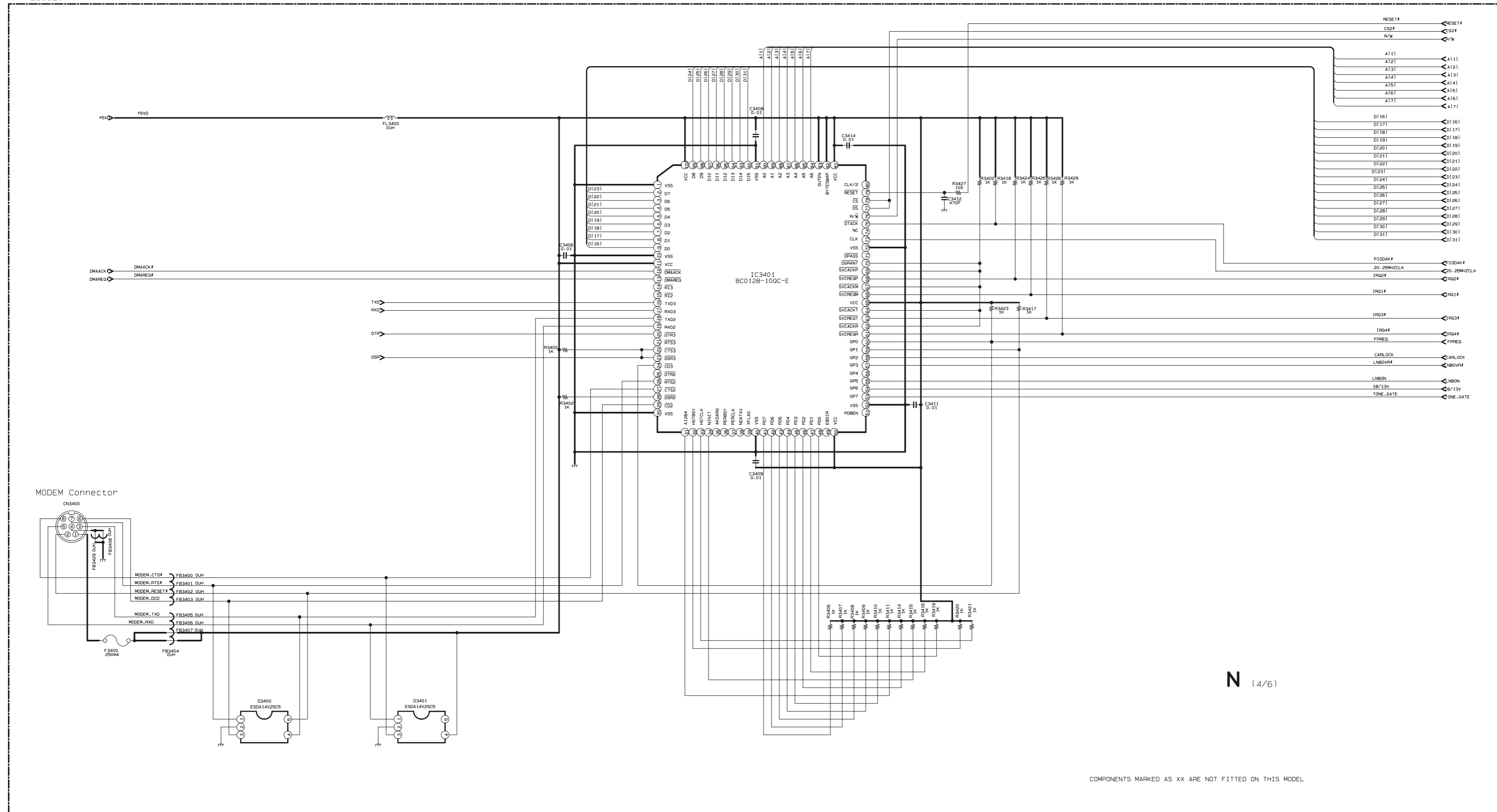
n. - 28dc20



COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

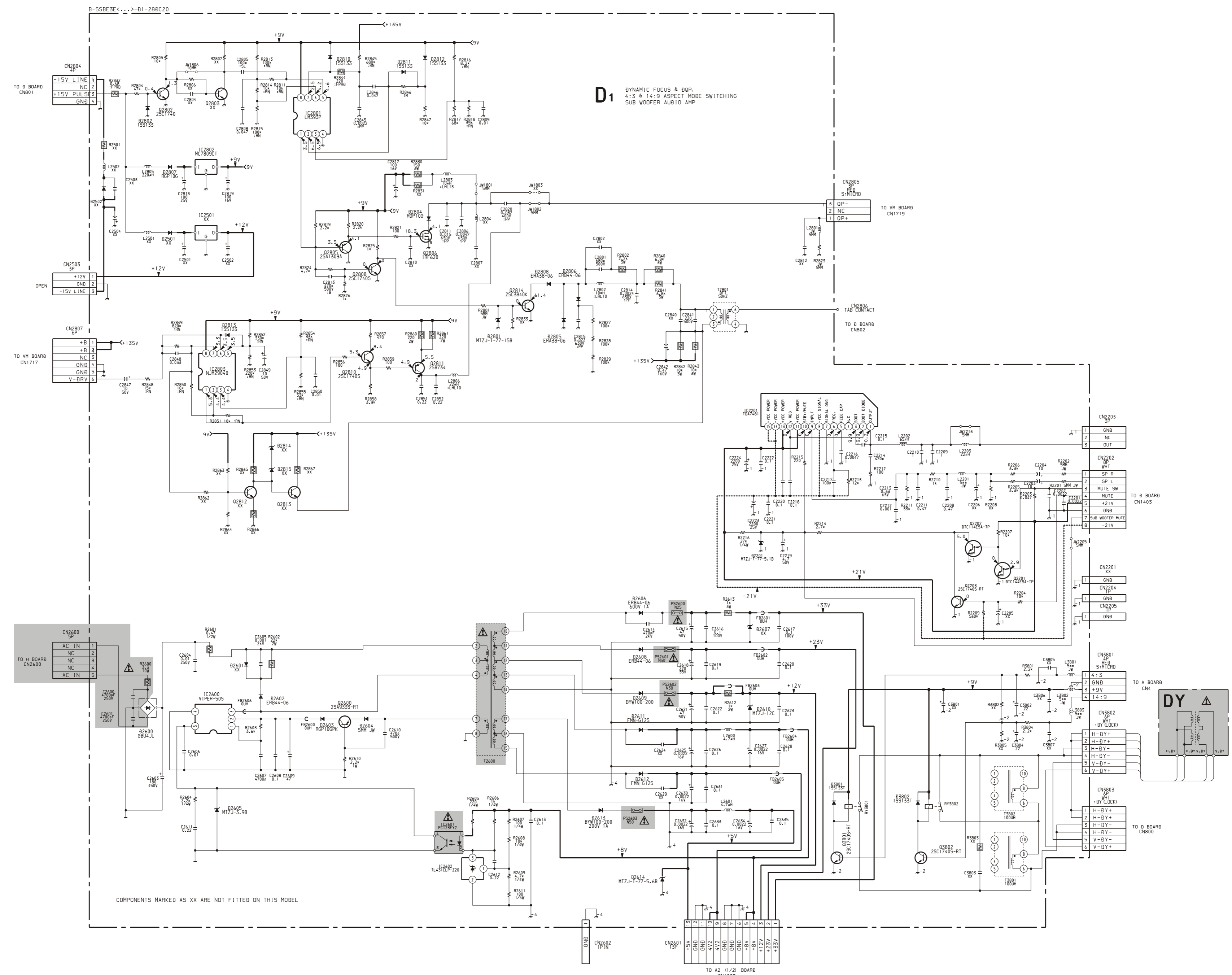
N (2/6)

n. - 28dc20



N (4/6)

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL



D1 DYNAMIC FOCUS & DQP, 4:3 & 14:9 ASPECT MODE SWITCHING SUB WOOFER AUDIO AMP

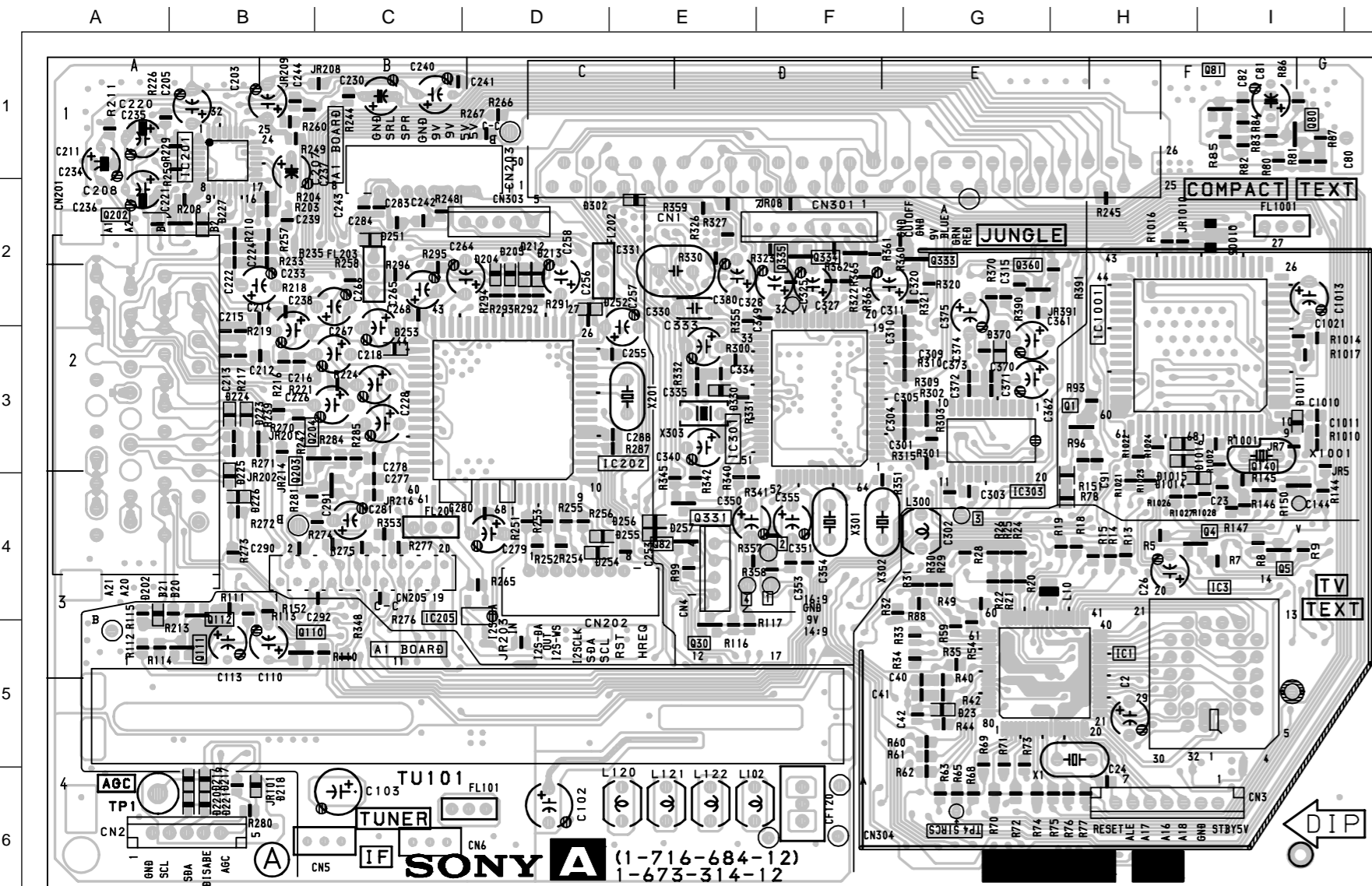
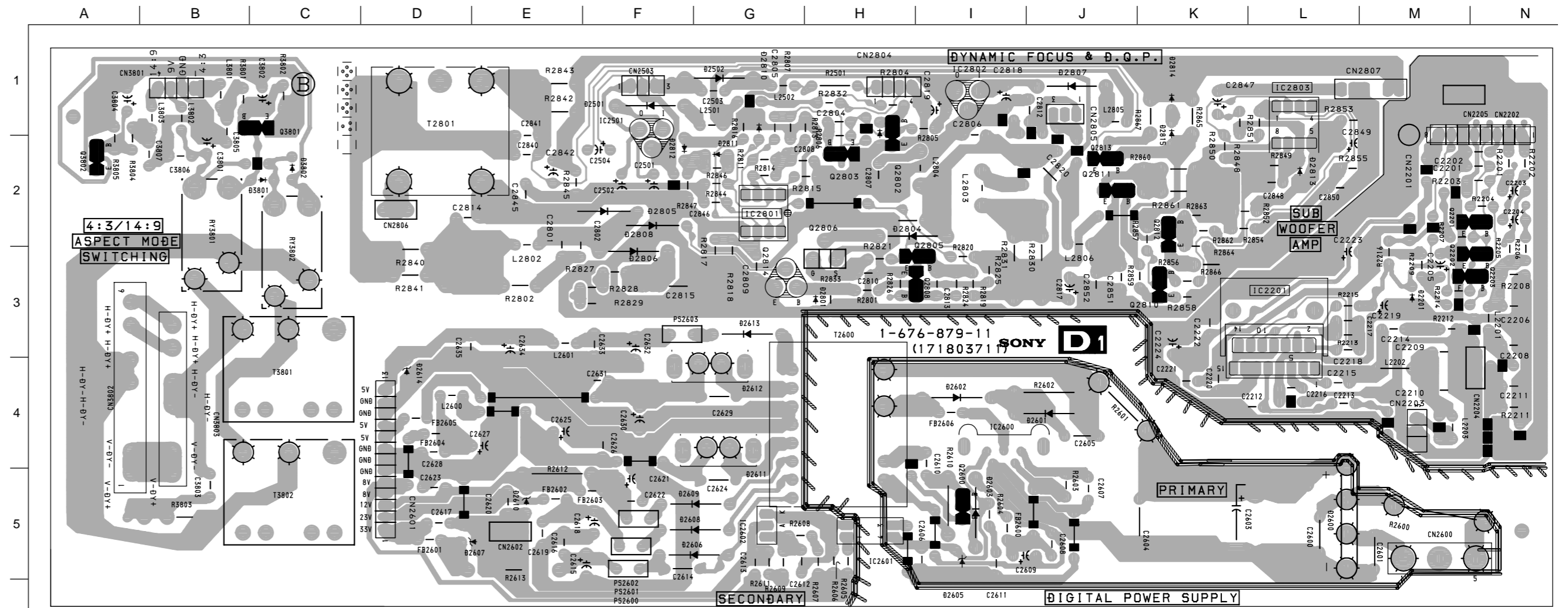
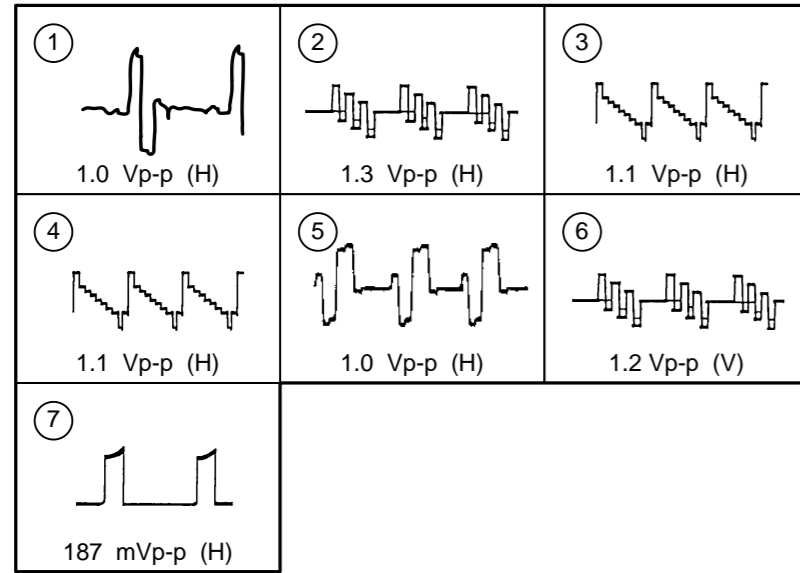
D1 [DYNAMIC FOCUS AND DQP, 4:3 AND 14:9 ASPECT MODE SWITCHING, SUB WOOFER AUDIO AMP]

D1 [DYNAMIC FOCUS OF DQP, 4:3 AND 14:9 ASPECT SWITCHING, SUB WOOFER AUDIO AMP]

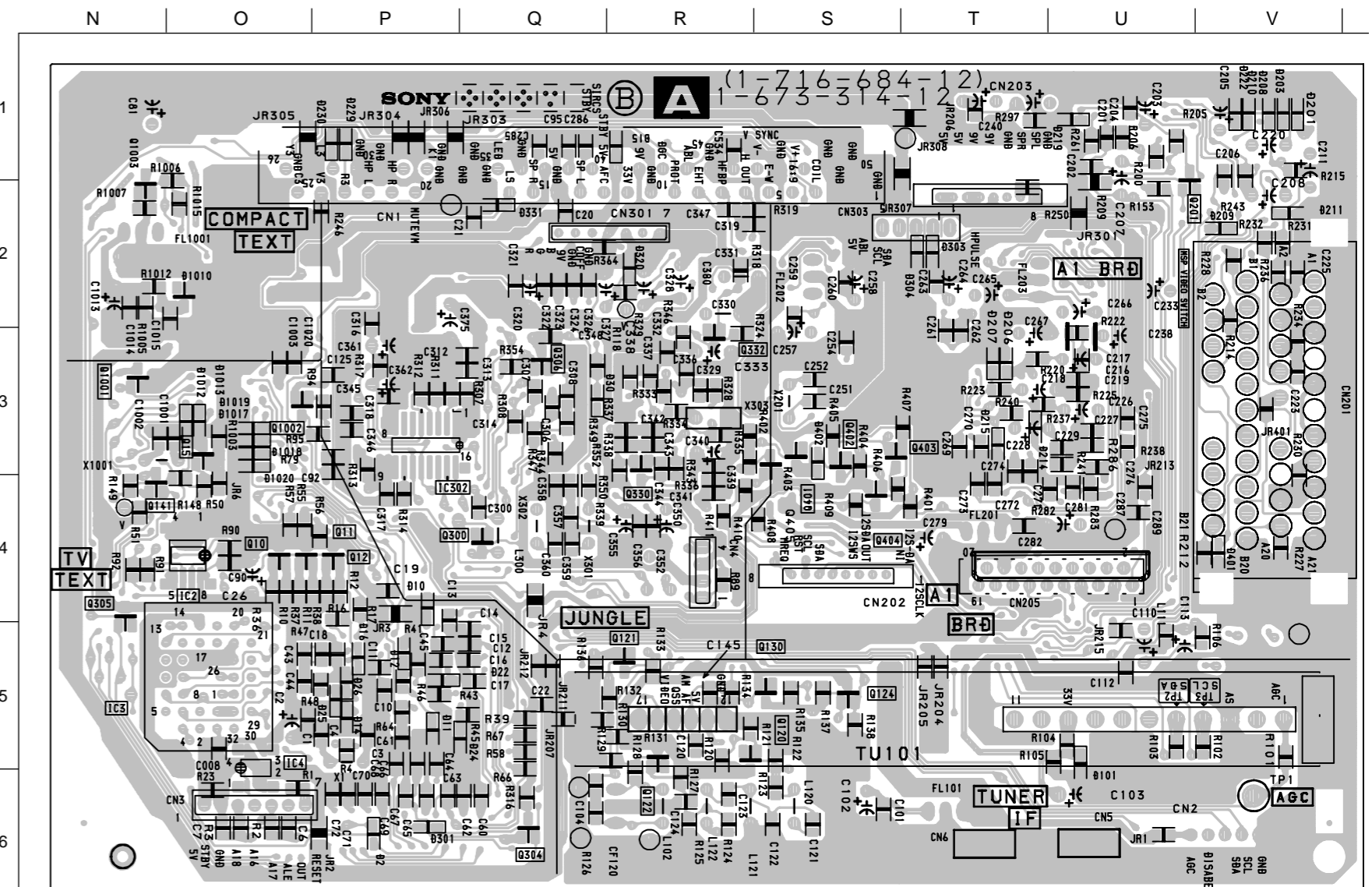
D1 BOARD LOCATION

IC	DIODE
IC2201 L-3	D2201 M-3
IC2801 G-2	D2801 H-3
IC2802 I-1	D2802 H-2
IC2803 L-1	D2804 H-2
TRANSISTOR	
Q2201 M-2	D2805 F-2
Q2202 M-2	D2806 F-3
Q2203 N-2	D2807 J-1
Q2802 H-2	D2808 F-2
Q2805 I-2	D2810 G-1
Q2806 H-2	D2811 G-1
Q2808 I-3	D2812 F-2
Q2810 I-3	D2813 L-2
Q2811 J-2	D2814 K-1
Q2814 G-3	D3801 C-2
Q3801 C-2	D3802 C-2
Q3802 A-2	

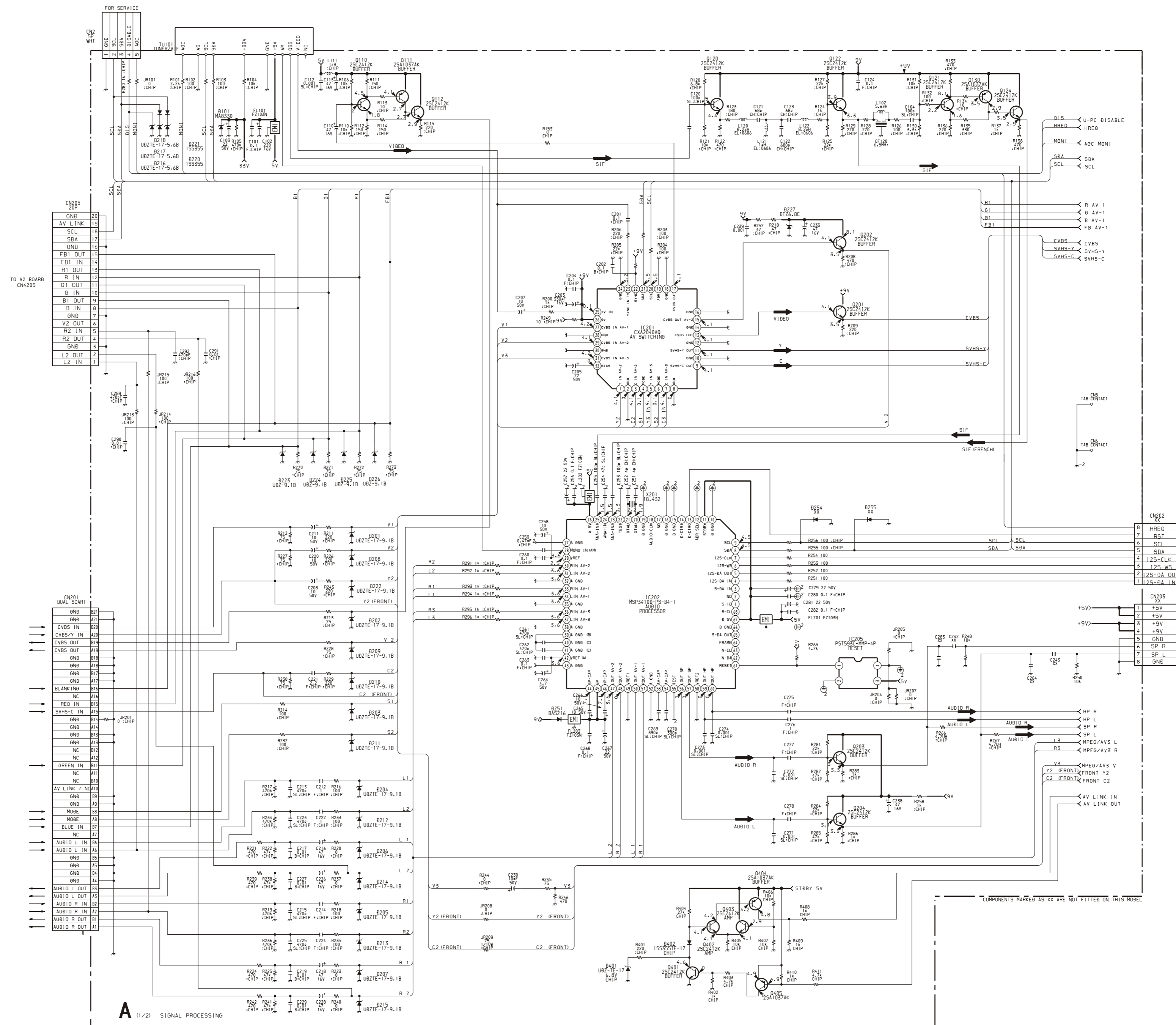
WAVEFORMS A BOARD



IC	Q403 T-3
IC1	H-5
IC2	O-4
IC3	N-5
IC4	O-6
DIODE	
IC201	B-1
IC202	E-3
IC205	C-5
IC301	E-3
IC302	P-4
IC303	G-4
IC1001	H-3
TRANSISTOR	
Q1	H-3
Q4	I-5
Q15	O-3
Q30	E-5
Q80	I-1
Q81	I-1
Q82	E-4
Q110	B-5
Q111	B-5
Q112	B-5
Q120	S-5
Q121	R-5
Q122	R-6
Q124	S-5
Q130	S-5
Q140	I-3
Q141	N-4
Q201	V-2
Q202	A-2
Q203	B-3
Q204	B-3
Q300	P-4
Q304	O-6
Q305	N-4
Q306	Q-3
Q330	R-4
Q331	E-4
Q332	S-3
Q333	G-2
Q334	F-2
Q335	F-2
Q401	S-4
Q402	S-4



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TO A2 BOARD CN4205

20	GND
19	AV LINK
18	SCL
17	SDA
16	GND
15	FB1 OUT
14	FB1 IN
13	R1 OUT
12	R1 IN
11	G1 OUT
10	G IN
9	B1 OUT
8	B IN
7	GND
6	V2 OUT
5	R2 IN
4	R2 OUT
3	GND
2	L2 OUT
1	L2 IN

CN201 DUAL SCART

B1	GND
A1	GND
B0	CVBS IN
A0	CVBS IN
B1	CVBS OUT
A1	CVBS OUT
B1	GND
A1	GND
B1	GND
A1	GND
B1	BLANKING IN
A1	BLANKING IN
B1	RED IN
A1	RED IN
B1	SVHS-C IN
A1	SVHS-C IN
B1	GND
A1	GND
B1	GND
A1	GND
B1	GREEN IN
A1	GREEN IN
B1	NC
A1	NC
B1	AV LINK / NC
A1	AV LINK / NC
B1	GND
A1	GND
B1	MODE
A1	MODE
B1	MODE
A1	MODE
B1	NC
A1	NC
B1	AUDIO L IN
A1	AUDIO L IN
B1	GND
A1	GND
B1	AUDIO L OUT
A1	AUDIO L OUT
B1	GND
A1	GND
B1	AUDIO R IN
A1	AUDIO R IN
B1	GND
A1	GND
B1	AUDIO R OUT
A1	AUDIO R OUT

A (1/2) SIGNAL PROCESSING

B-55B3E...A...-280C20

TO A1 BOARD CN1202

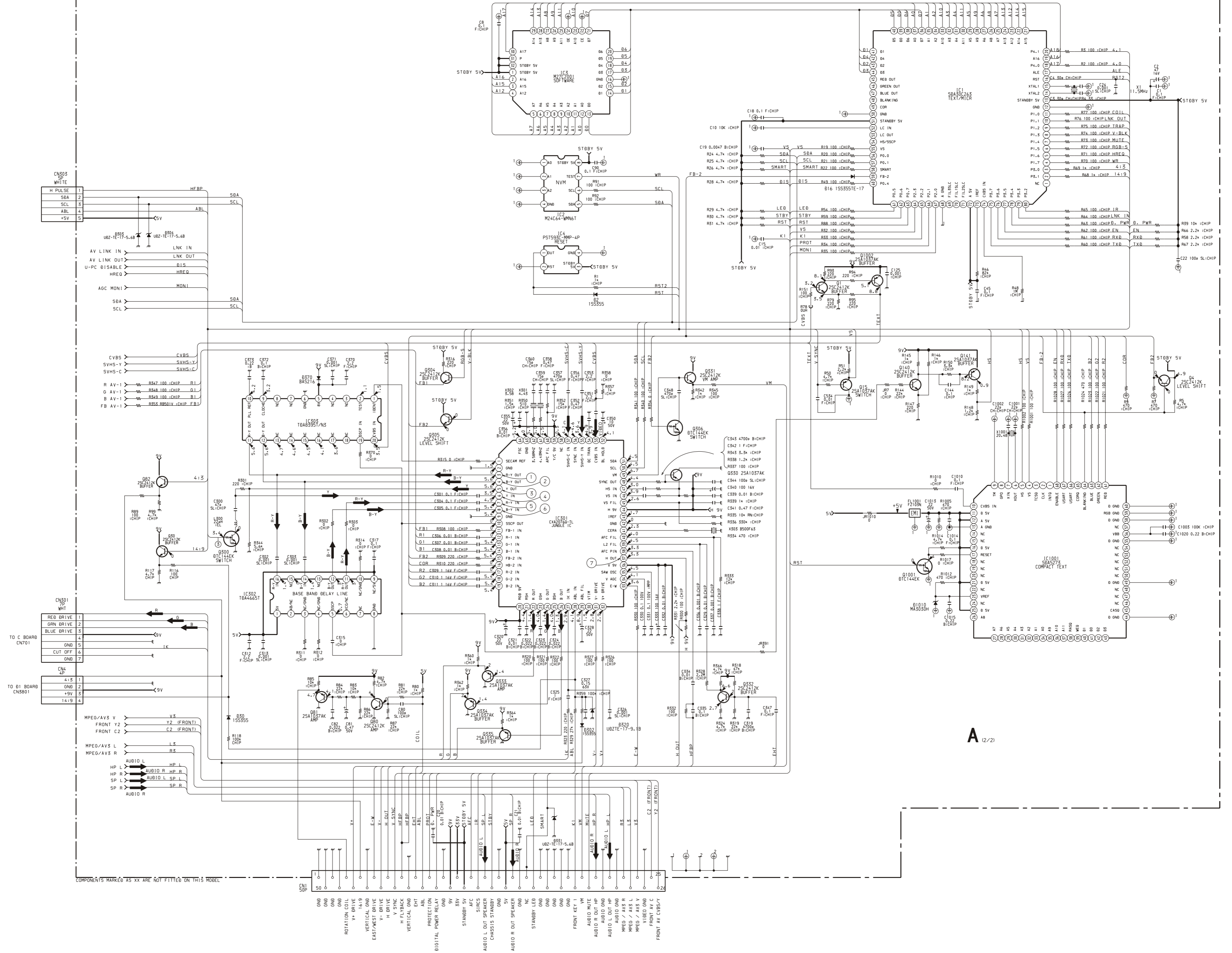
8	HREQ
7	RST
6	SCL
5	SDA
4	I2S-CLK
3	I2S-MS
2	I2S-DA IN

TO A1 BOARD CN1205

1	+5V
2	+5V
3	+5V
4	+5V
5	GND
6	SP R
7	SP L
8	GND

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

B-55BESE<->-A...-28PC20



CNS05 SP WHITE

H PULSE	1
SCL	2
ABL	3
+5V	4

CNS01 SP WHITE

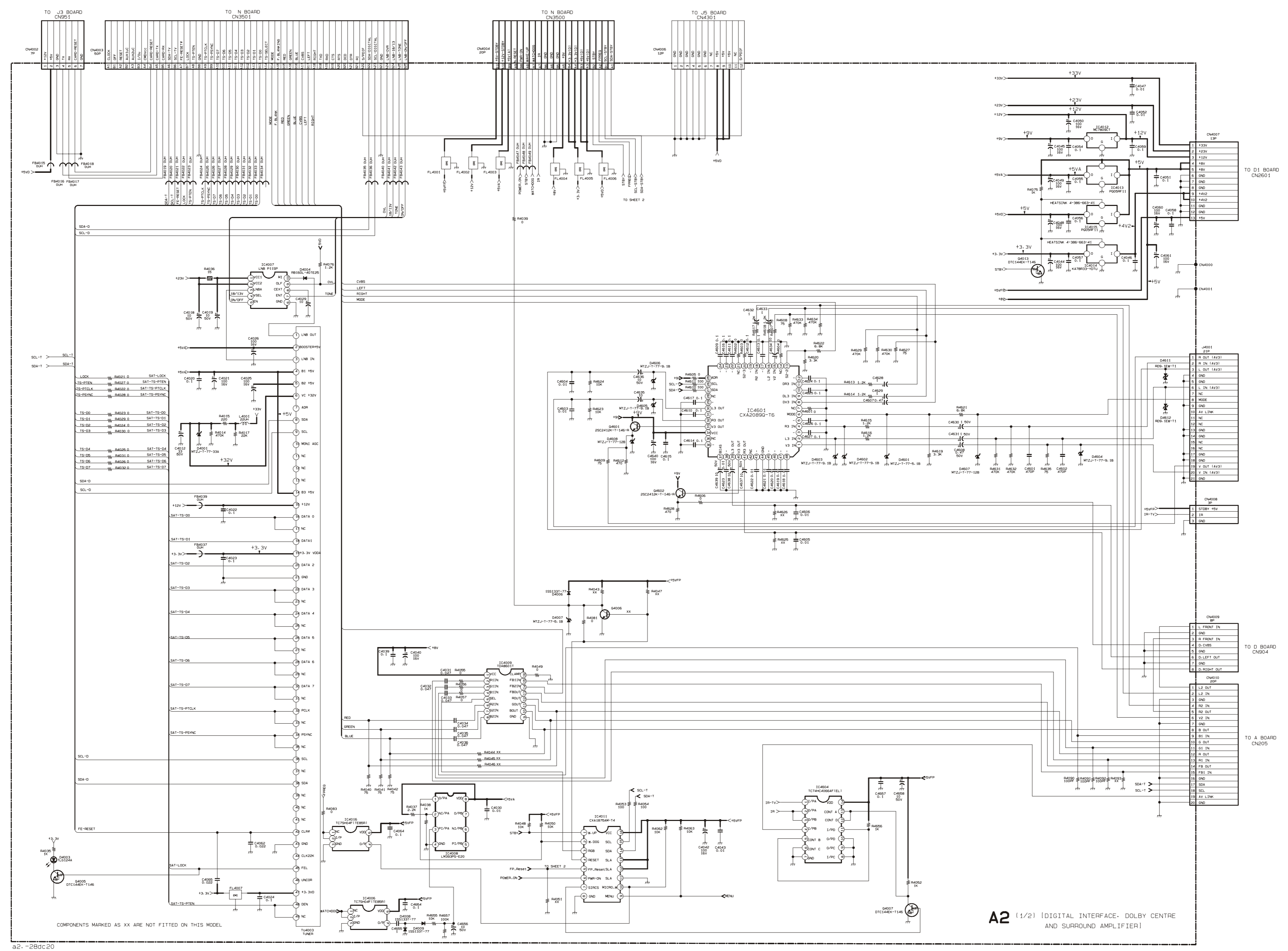
RED DRIVE	1
GRN DRIVE	2
BLU DRIVE	3
GN	4
GN	5
CUT OFF	6
GN	7

CNS02 SP WHITE

4:3	1
GN	2
+9V	3
14:9	4

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

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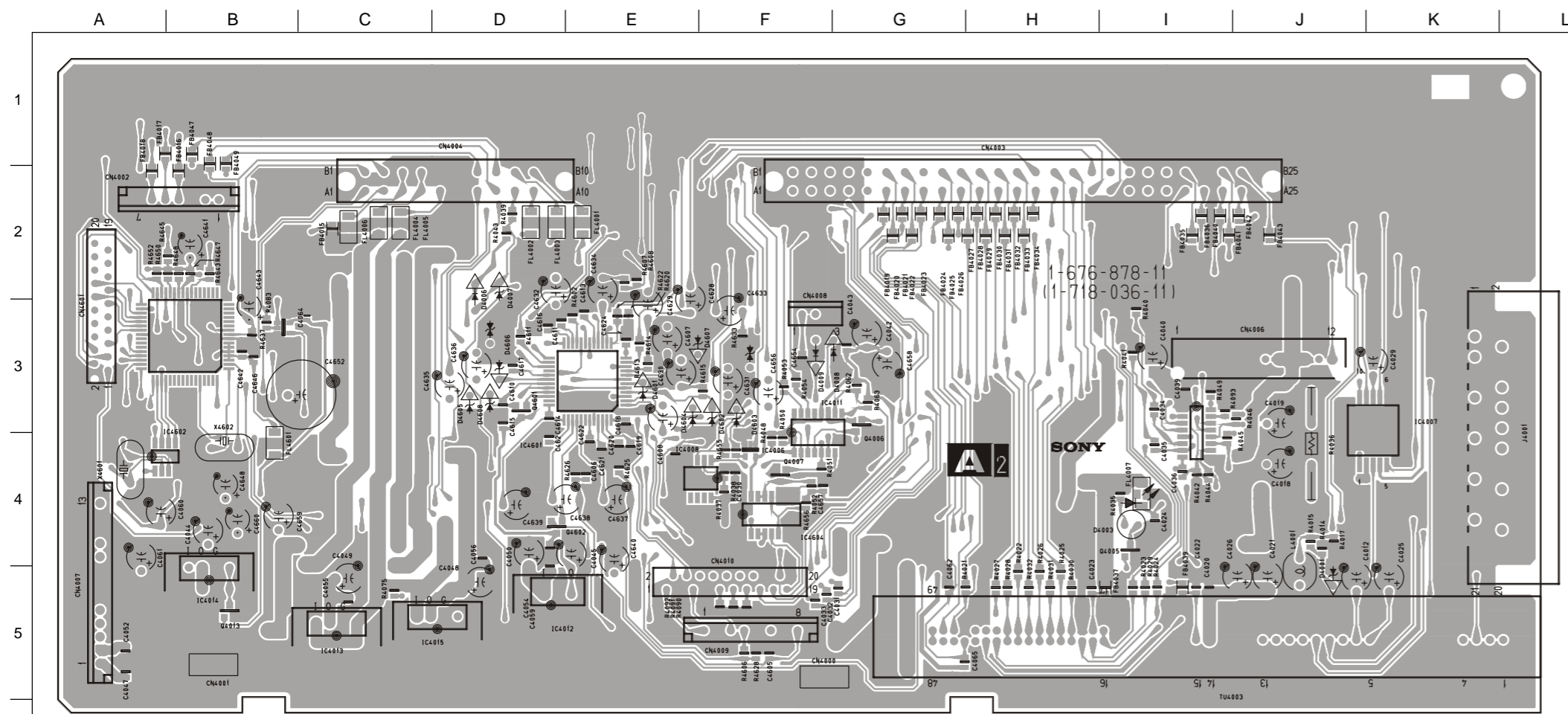


02-280c20

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

A2 (1/2) [DIGITAL INTERFACE, DOLBY CENTRE AND SURROUND AMPLIFIER]

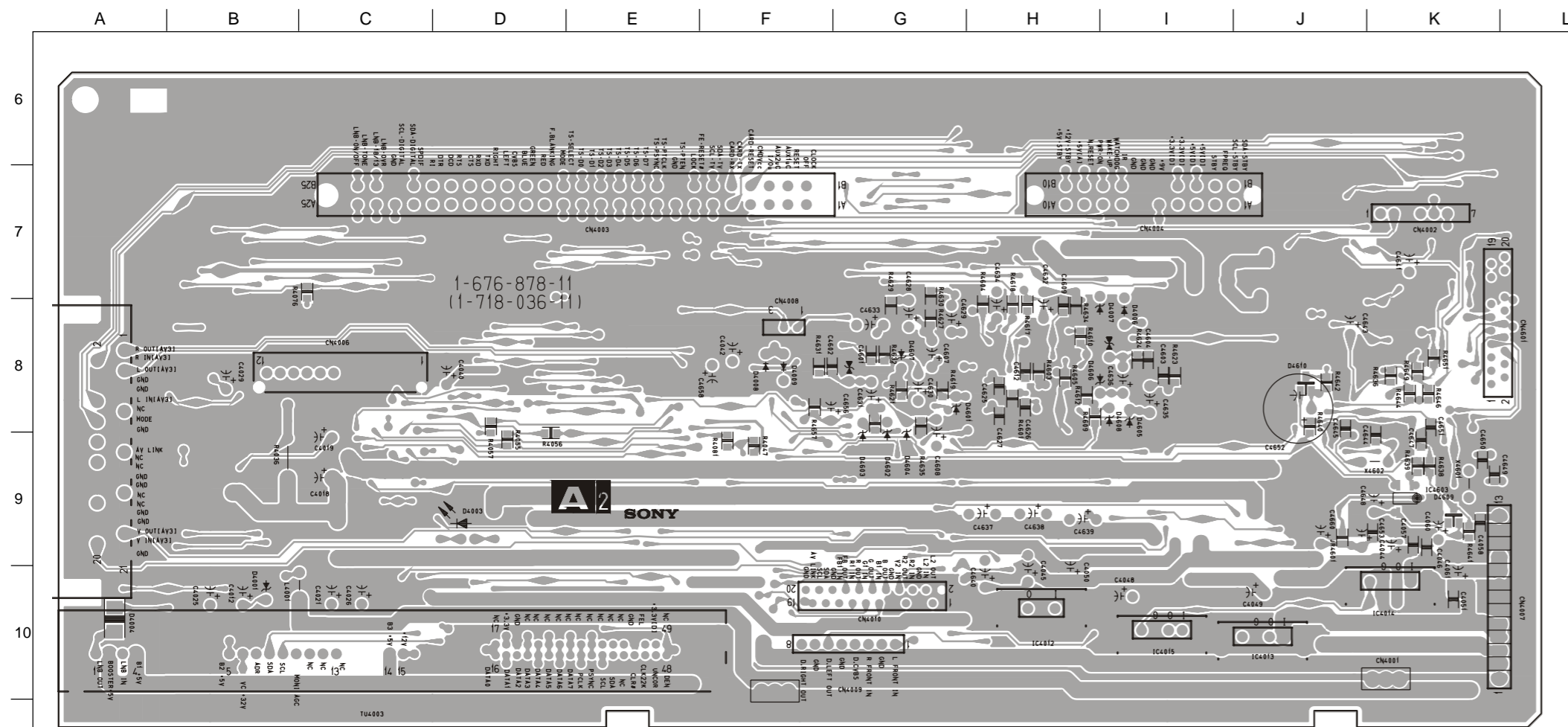
A2 [PRINTED WIRING BOARD [A] SIDE]



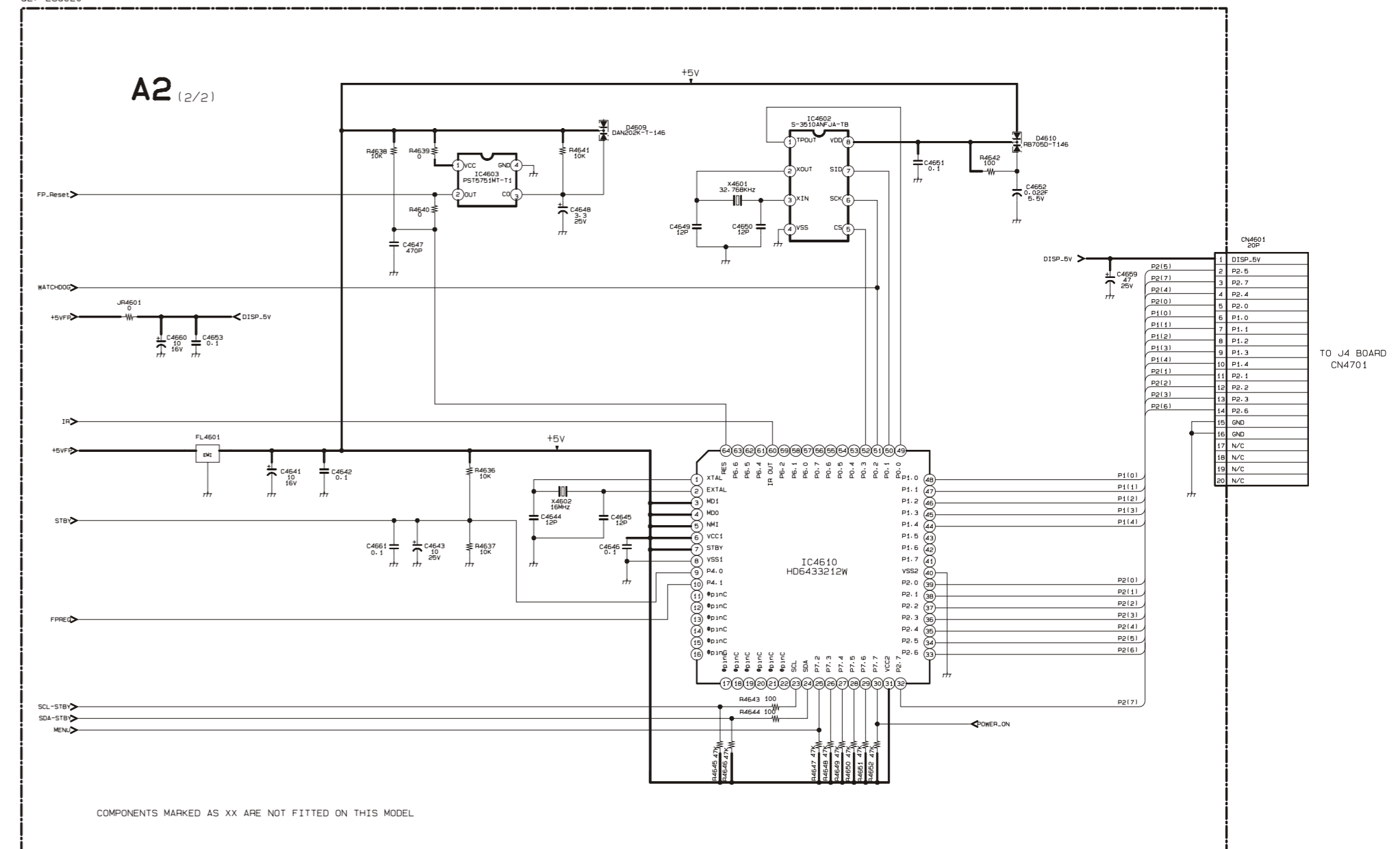
A2 BOARD LOCATION

IC	DIODE
IC4001 C-7	D4002 D-4
IC4002 D-5	D4004 C-8
IC4003 D-9	D4005 C-5
IC4004 C-3	D4006 D-7
IC4005 D-6	D4007 D-10
IC4006 C-1	D4008 C-9
IC4007 D-2	D4009 C-7
IC4008 C-6	D4010 D-9
IC4009 E-4	D4011 C-10
TRANSISTOR	
Q4001 D-4	D4013 D-7
Q4004 I-2	D4014 D-7
Q4005 I-2	D4015 C-9
Q4007 C-8	D4017 B-5
Q4008 D-8	D4018 B-6
Q4009 I-7	D4019 D-10
Q4010 D-6	D4260 D-4
Q4011 D-2	
Q4260 D-4	
Q4261 D-4	

A2 [PRINTED WIRING BOARD [B] SIDE]



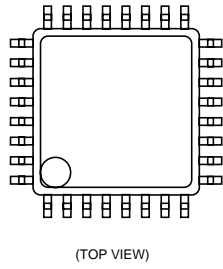
82L-289c20



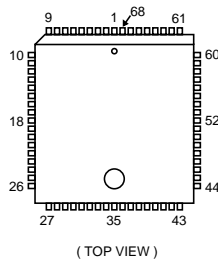
A2 [DIGITAL INTERFACE, DOLBY CENTRE AND SURROUND AMPLIFIER [2/2]]

5-4. SEMICONDUCTORS

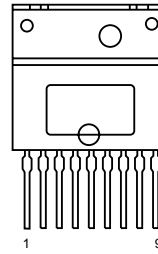
CXA2040Q-T4



MSP3410D-PS-B4-T



STR-S6709

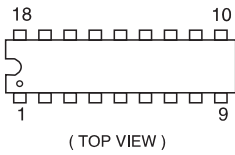


TLP721(D4-)

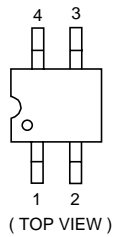


2SA733-K
2SA933AS
2SA933S

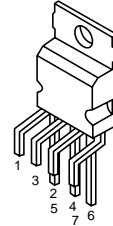
CXA8070P



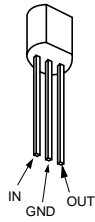
PST593C-MMP-4P



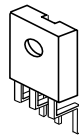
STV9379



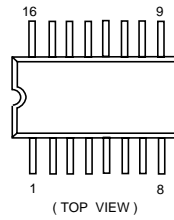
LM78L05ACZ



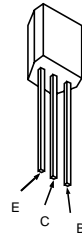
SBX1981-51



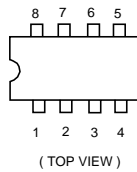
TDA4665T-T



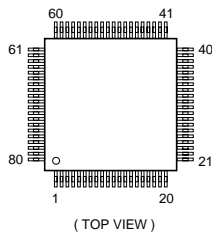
DTA144ES
DTC114ES
DTC143TS
DTC144ESA
2SC1740S-RT



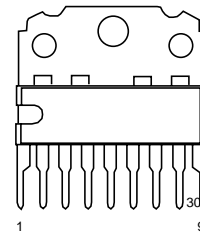
LM393P
M5216P
TDA2822M
TNY253P
 μ PC393C



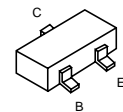
SDA5273-3CP-C55-22-GEG
SDA3OC263-GEG



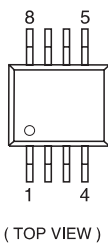
TDA6101Q/N3



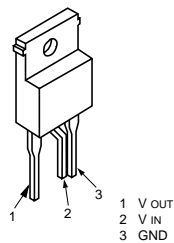
DTC144TK
DTC144EKA
2SA1037K
2SA1162-G
2SC1623-L5L6
2SC2412K



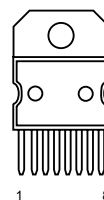
M24C332-MW6T



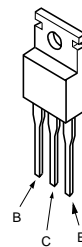
SE135N



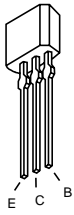
TDA7264



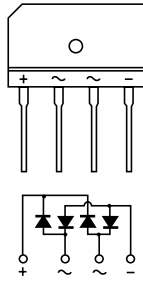
IRF620



2SC2785-HFE

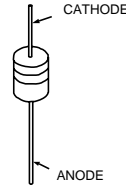


D4SB60L

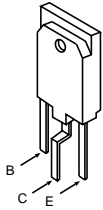


ERA38-06TP1
HZS9.INB2
MTZJ-3.6A
MTZJ-T-77-3.6B
MTZJ-T-77-3.9B
MTZJ-5.1B
MTZJ-5.6B
MTZJ-6.8B
MTZJ-9.1
MTZJ-T-77-9.1B
MTZJ-77-22B

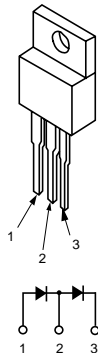
MTZJ-T-77-33C
RD3.9ESB2
RD5.1ESB2
RD5.6ESB2
RD6.8ESB2
RD10ESB2
RD15ES-B2
RD39ES-B2
ISS119-25TD
1SS133T-77



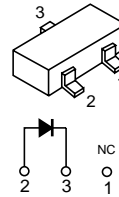
2SC4927-01



FMS-3FU

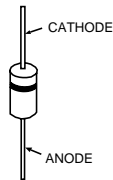


MA3030-H (TX)
MA3130WA-TX

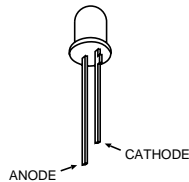


DINL20U
EG-1Z-V1
EGP20G
EL1Z
EM1-V1
EU2A
EU2-V1
FML-G12S
GP08D

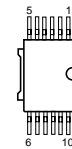
HSS83TD
RGP10GPKG23
RGP15GPKG23



SLA-570KT3F

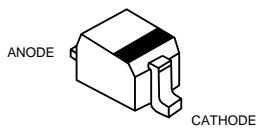


LNB P11SP

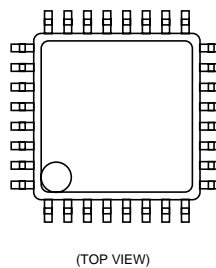


BAS216
DTZ6.8C
DTZ9.1
DTZ33B
RD5.65-B
MA8330

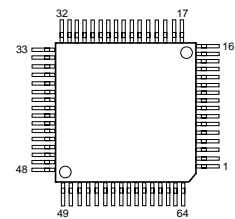
1SS355TE-17
UDZ-TE-17-5.1B
UDZ-TE-17-6.8B
UDZ-TE-17-5.6B
HDZ-TE-17-6.8B
UDZ-TE-17-9.1B



CXA2089Q-T6

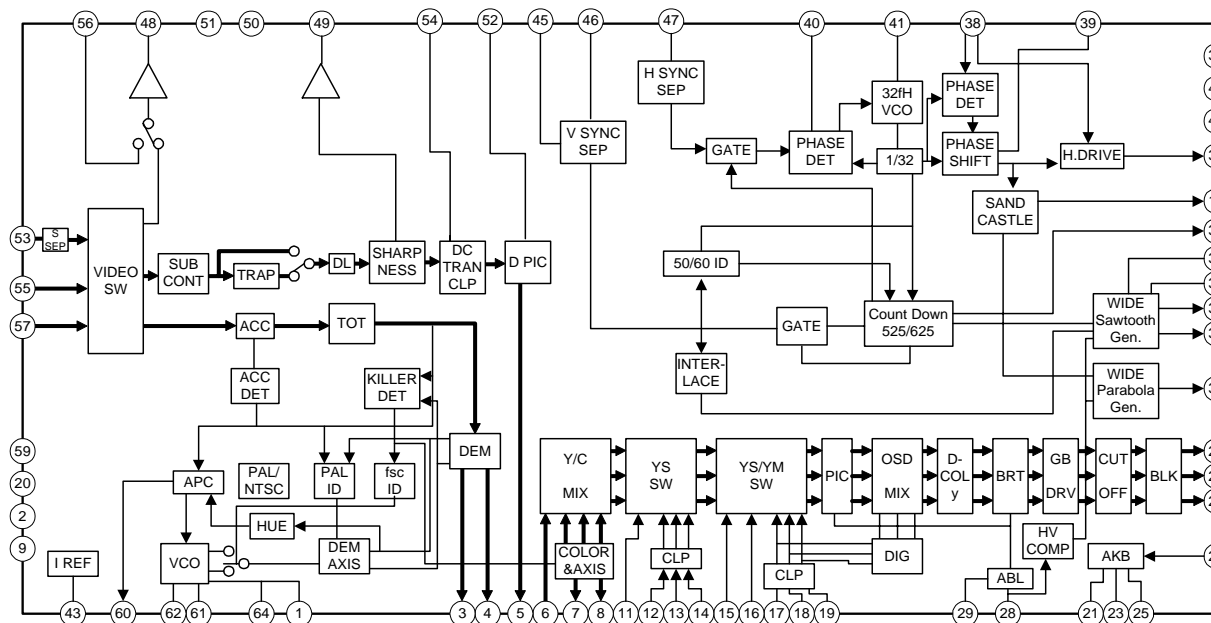


H8/3212

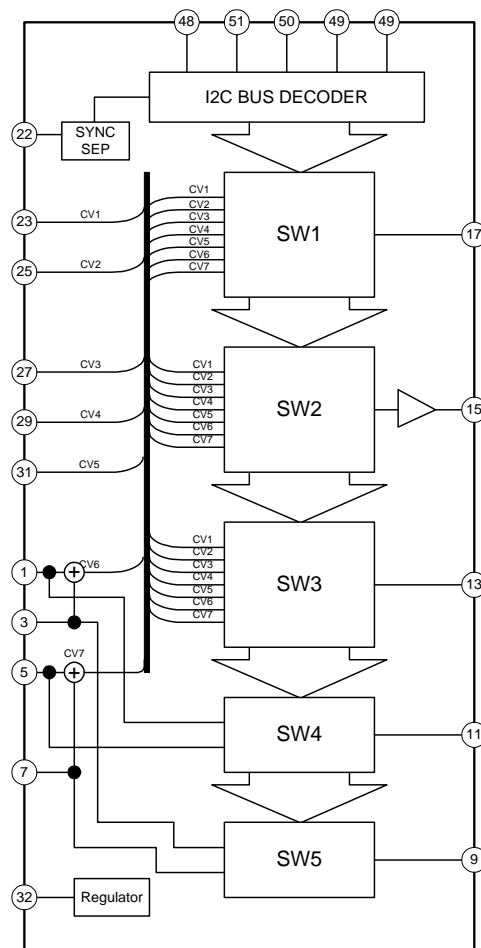


5-5. IC BLOCK DIAGRAMS (1)

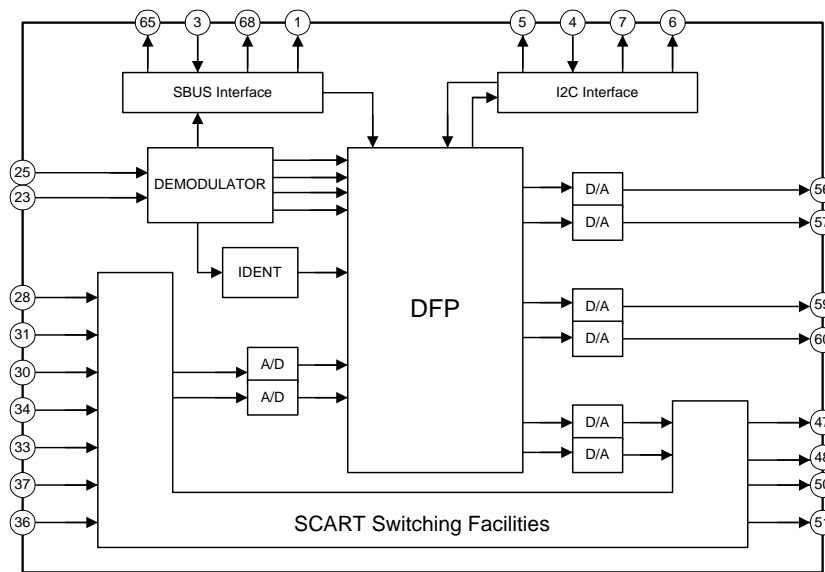
A BOARD IC301 CXA2076Q-TL



A BOARD IC201 CXA2040AQ

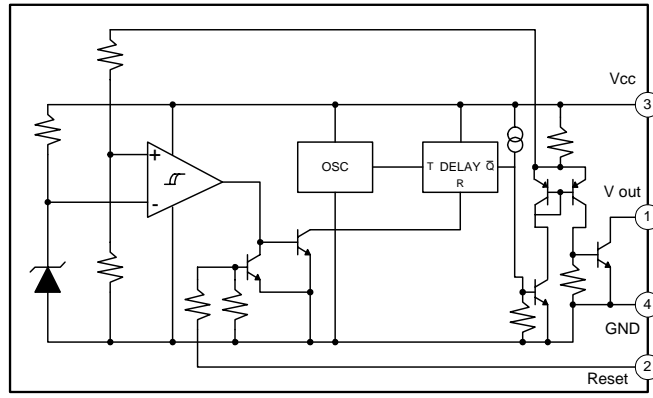


A BOARD IC202 MSP3410D

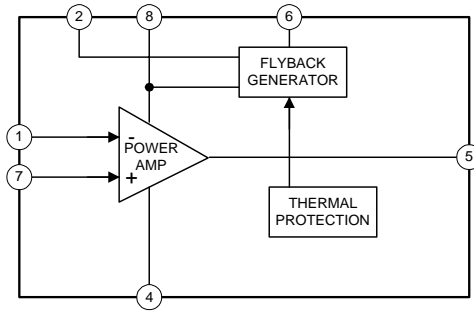


5-5. IC BLOCK DIAGRAMS (2)

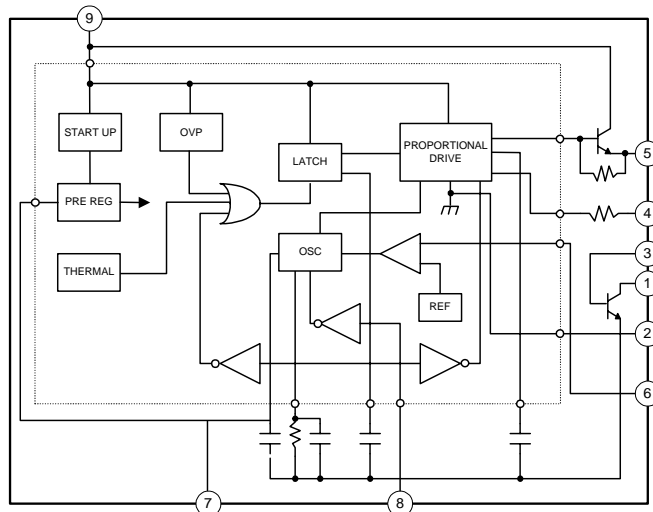
A BOARD IC4 PST593C



D BOARD IC500 STV9379



D BOARD IC600 STR-S6709



SECTION 6 EXPLODED VIEWS

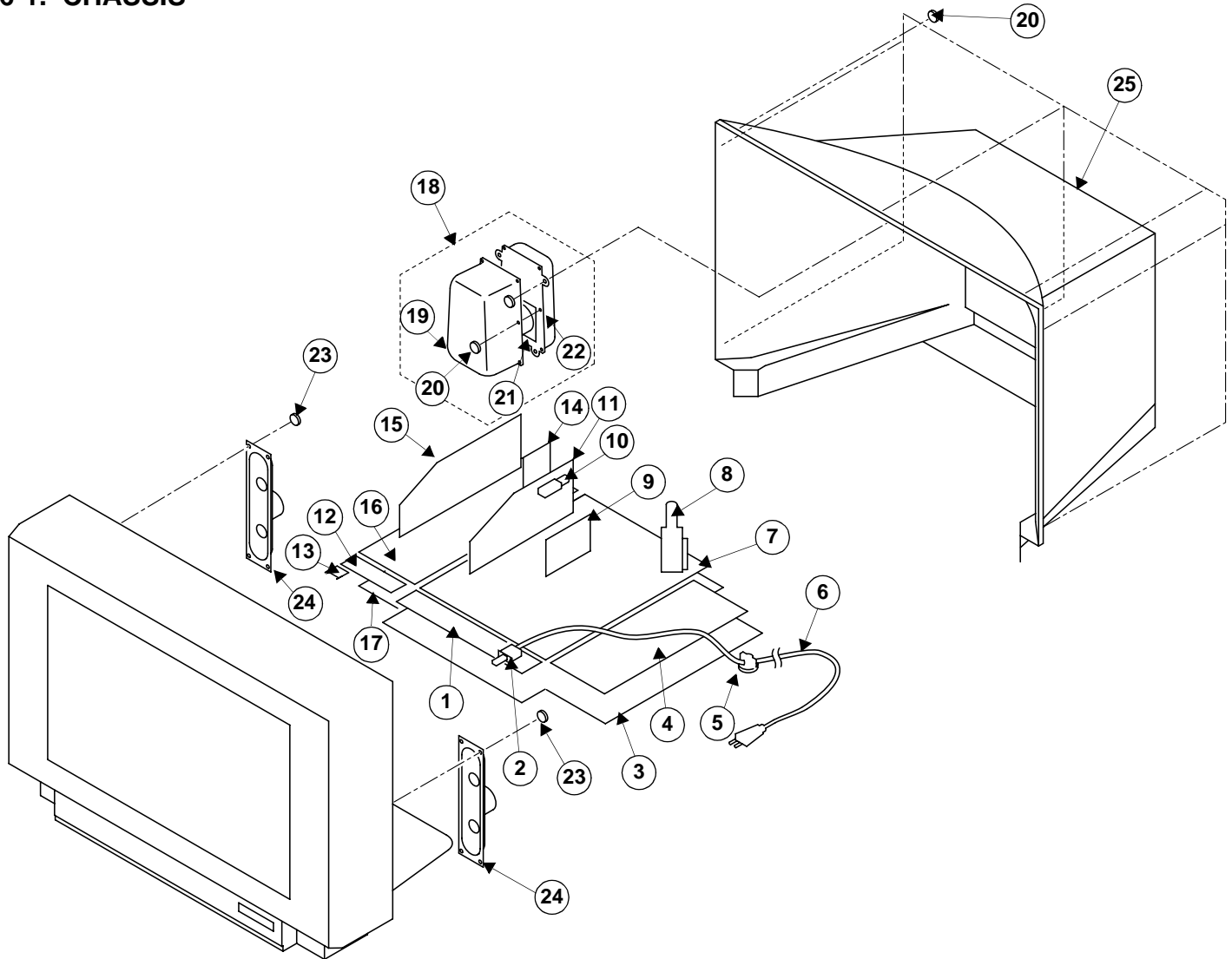
Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

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 :

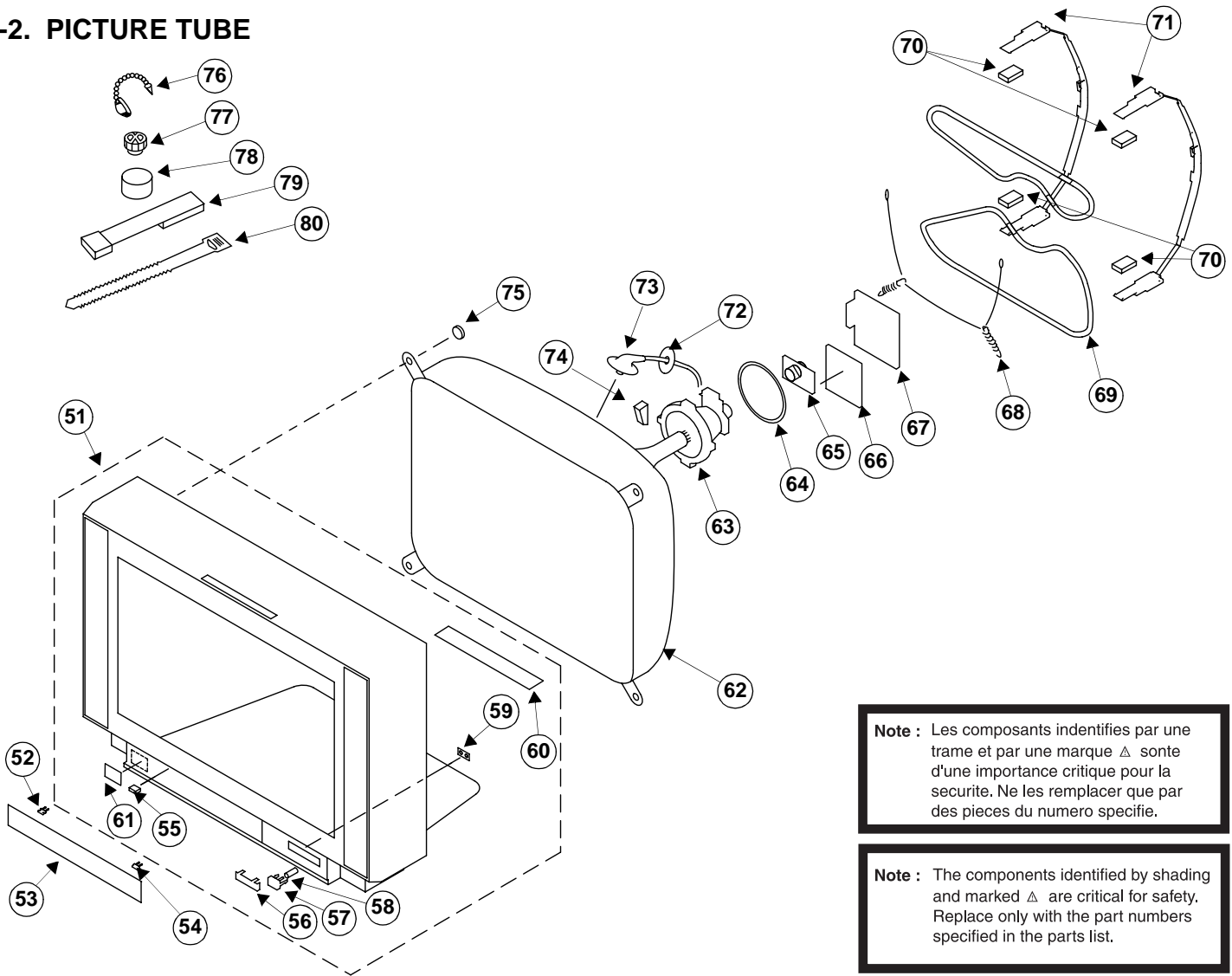
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked “*” are not stocked since they are seldom required for routine 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-1647-029-A	H BOARD, COMPLETE		16	*A-1632-878-A	A2 BOARD, COMPLETE	
2	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)		17	*4-204-751-02	BRACKET, A2	
3	*4-204-752-02	BRACKET, MAIN		18	*A-1678-172-A	SP BLOCK ASSY	19-22
4	*A-1640-376-A	D1 BOARD, COMPLETE		19	*4-204-776-21	BOX, WOOFER	
5	*4-202-531-01	AC CORD LOCK (SC)		20	4-039-358-01	SCREW (4x16), (+) BV TAPPING	
6	Δ 1-783-083-11	CORD POWER (FILTER)		21	1-529-417-11	SUB WOOFER SPEAKER (8CM)	
7	*A-1642-253-A	D BOARD, COMPLETE		22	*4-204-775-21	BAFFLE WOOFER	
8	Δ 1-453-341-11	TRANSFORMER ASSY, FLYBACK (NX-4404//U2B4)		23	4-384-096-01	SCREW (4x16), TAPPING + P	
9	*A-1642-254-A	D2 BOARD, COMPLETE		24	1-529-408-11	SPEAKER (4.2x24CM)	
10	1-693-340-11	TUNER/VIF		25	4-204-733-31	COVER, REAR	
11	*A-1632-877-A	A BOARD, COMPLETE					
12	*A-1651-128-A	J3 BOARD					
13	*A-1651-127-A	J4 BOARD					
14	*A-1651-130-A	J5 BOARD					
15	*A-1654-044-A	N BOARD, COMPLETE					

6-2. PICTURE TUBE



Note : Les composants indentifiés 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 spécifique.

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

REF. NO.	PART. NO	DESCRIPTION	REMARK
51	X-4200-580-1	BEZNET ASSY	55-61
52	4-045-250-01	DAMPER	
53	4-205-211-01	DOOR	
54	4-202-555-01	SHAFT DOOR	
55	4-042-192-11	CATCHER, PUSH	
56	4-204-730-11	WINDOW ORNAMENTAL	
57	4-204-728-01	BUTTON, POWER	
58	4-202-964-11	SPRING	
59	4-204-729-01	GUIDE LIGHT	
60	4-204-058-41	SHEET, BLOTING	
61	4-205-212-01	WINDOW	
62	Δ 8-737-786-05	PICTURE TUBE (W66LLX060X) SD-299	
63	Δ 1-451-481-31	DEFLECTION YOKE (Y28RCV2)	
64	1-452-896-11	COIL, NA ROTATION (RT200)	
65	Δ 8-453-011-11	NECK ASSY, NA299-M	
66	*A-1644-107-A	VM BOARD, COMPLETE	
67	*A-1638-126-A	C BOARD, COMPLETE	
68	4-200-433-01	SPRING, EXTENSION	
69	Δ 1-416-466-11	COIL, DEMAGNETIC (KV-28DS20U/28DX20U)	
70	*4-203-390-01	CUSHION DGC	

REF. NO.	PART. NO	DESCRIPTION	REMARK
71	*4-057-303-01	HOLDER, DGC	
72	4-202-554-01	HOLDER, HV CABLE	
73	Δ 1-251-807-22	CAP ASSY, HIGH VOLTAGE	
74	3-704-495-01	SPACER, DY	
75	4-036-188-01	SCREW, SELF TAPPING	
	4-204-225-01	PT SCREW	
76	4-308-870-00	CLIP, LEAD WIRE	
77	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM \varnothing	
78	1-425-032-00	MAGNET, DISK; 10MM \varnothing	
79	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
80	3-701-007-00	BAND, BINDING	

SECTION 7 ELECTRICAL PARTS LIST

PARTS LISTING TABLE OF CONTENTS

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Note : Refer to the designated variant parts list when seeking a part indicated by an asterisk (*)

Parts indicated (**XX**) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.



REF.NO.	PART.NO	DESCRIPTION	REMARK
*A-1632-877-A A Board, Complete			
	1-750-797-11	SOCKET, PLCC	
	4-352-844-01	PIN, LEAD, COATING	
<CAPACITOR>			
C1	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2	1-104-664-11	ELECT 47UF	20.00% 16V
C3	1-163-104-00	CERAMIC CHIP 30PF	5.00% 50V
C4	1-163-104-00	CERAMIC CHIP 30PF	5.00% 50V
C8	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C10	1-216-073-00	RES-CHIP 10K 5% 1/10W	
C15	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C18	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C19	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C20	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C21	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C22	1-163-117-00	CERAMIC CHIP 100PF	5.00% 50V
C24	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V
C45	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C80	1-163-117-00	CERAMIC CHIP 100PF	5.00% 50V
C81	1-126-959-11	ELECT 0.47UF	20.00% 50V
C82	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
C90	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C101	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C102	1-126-934-11	ELECT 220UF	20.00% 16V
C103	1-126-965-11	ELECT 22UF	20.00% 50V
C104	1-163-117-00	CERAMIC CHIP 100PF	5.00% 50V
C110	1-104-664-11	ELECT 47UF	20.00% 16V
C112	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V
C113	1-104-664-11	ELECT 47UF	20.00% 16V
C120	1-163-117-00	CERAMIC CHIP 100PF	5.00% 50V
C121	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V
C122	1-163-137-00	CERAMIC CHIP 680PF	5.00% 50V
C123	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V
C124	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C125	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V
C144	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C201	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C202	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C203	1-104-661-91	ELECT 330UF	20.00% 16V
C204	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C205	1-126-965-11	ELECT 22UF	20.00% 50V
C207	1-126-964-11	ELECT 10UF	20.00% 50V
C208	1-126-964-11	ELECT 10UF	20.00% 50V
C211	1-126-964-11	ELECT 10UF	20.00% 50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C212	1-164-346-11	CERAMIC CHIP 1UF	16V
C213	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V
C214	1-164-346-11	CERAMIC CHIP 1UF	16V
C215	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V
C216	1-104-664-11	ELECT 47UF	20.00% 16V
C217	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C218	1-104-664-11	ELECT 47UF	20.00% 16V
C219	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C220	1-126-964-11	ELECT 10UF	20.00% 50V
C221	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C222	1-164-346-11	CERAMIC CHIP 1UF	16V
C223	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V
C224	1-164-346-11	CERAMIC CHIP 1UF	16V
C225	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V
C226	1-104-664-11	ELECT 47UF	20.00% 16V
C227	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C228	1-104-664-11	ELECT 47UF	20.00% 16V
C229	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C230	1-126-964-11	ELECT 10UF	20.00% 50V
C233	1-104-664-11	ELECT 47UF	20.00% 16V
C238	1-104-664-11	ELECT 47UF	20.00% 16V
C239	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V
C251	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C252	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C253	1-163-117-00	CERAMIC CHIP 100PF	5.00% 50V
C254	1-163-109-00	CERAMIC CHIP 47PF	5.00% 50V
C255	1-163-117-00	CERAMIC CHIP 100PF	5.00% 50V
C256	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C257	1-126-965-11	ELECT 22UF	20.00% 50V
C258	1-126-964-11	ELECT 10UF	20.00% 50V
C259	1-164-005-11	CERAMIC CHIP 0.47UF	25V
C260	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C261	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V
C262	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V
C263	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C264	1-126-963-11	ELECT 4.7UF	20.00% 50V
C265	1-126-964-11	ELECT 10UF	20.00% 50V
C266	1-126-964-11	ELECT 10UF	20.00% 50V
C267	1-126-965-11	ELECT 22UF	20.00% 50V
C268	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C269	1-163-131-00	CERAMIC CHIP 390PF	5.00% 50V
C270	1-163-131-00	CERAMIC CHIP 390PF	5.00% 50V
C271	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V
C272	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V
C273	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V
C274	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V
C275	1-164-346-11	CERAMIC CHIP 1UF	16V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C276	1-164-346-11	CERAMIC CHIP 1UF	16V	C339	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C277	1-164-346-11	CERAMIC CHIP 1UF	16V	C340	1-126-933-11	ELECT 100UF	20.00% 16V
C278	1-164-346-11	CERAMIC CHIP 1UF	16V	C341	1-164-005-11	CERAMIC CHIP 0.47UF	25V
C279	1-126-965-11	ELECT 22UF	20.00% 50V	C342	1-164-346-11	CERAMIC CHIP 1UF	16V
C280	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C343	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C281	1-126-965-11	ELECT 22UF	20.00% 50V	C344	1-163-117-00	CERAMIC CHIP 100PF	5.00% 50V
C282	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C347	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C289	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C348	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V
C290	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C350	1-126-964-11	ELECT 10UF	20.00% 50V
C291	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C351	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C292	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C352	1-164-005-11	CERAMIC CHIP 0.47UF	25V
C300	1-163-109-00	CERAMIC CHIP 47PF	5.00% 50V	C353	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C301	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C354	1-164-005-11	CERAMIC CHIP 0.47UF	25V
C302	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V	C355	1-126-965-11	ELECT 22UF	20.00% 50V
C303	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V	C356	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C304	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C357	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C305	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C358	1-164-005-11	CERAMIC CHIP 0.47UF	25V
C306	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C359	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C307	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C360	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C308	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C370	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C309	1-164-346-11	CERAMIC CHIP 1UF	16V	C371	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V
C310	1-164-346-11	CERAMIC CHIP 1UF	16V	C372	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C311	1-164-346-11	CERAMIC CHIP 1UF	16V	C373	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C312	1-164-505-11	CERAMIC CHIP 2.2UF	16V	C534	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C313	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V	C1001	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C315	1-216-295-91	SHORT 0		C1002	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C317	1-163-038-91	CERAMIC CHIP 0.1UF	25V	C1003	1-216-097-91	RES-CHIP 100K 5%	1/10W
C319	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V	C1010	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C320	1-126-965-11	ELECT 22UF	20.00% 50V	C1013	1-126-965-11	ELECT 22UF	20.00% 50V
C321	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1014	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C322	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V	C1015	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C323	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V	C1020	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C324	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V			<FILTER>	
C325	1-164-346-11	CERAMIC CHIP 1UF	16V				
C326	1-163-141-00	CERAMIC CHIP 0.001UF	5.00% 50V	CF120	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	
C327	1-130-770-00	MYLAR 0.15UF	5.00% 63V			<CONNECTOR>	
C328	1-126-965-11	ELECT 22UF	20.00% 50V	CN1	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
C329	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	CN2	*1-564-508-11	PLUG, CONNECTOR 5P	
C330	1-137-581-11	FILM 0.1UF	5.00% 100V	CN4	*1-568-879-11	PIN, CONNECTOR 4P	
C331	1-137-581-11	FILM 0.1UF	5.00% 100V	CN5	1-695-915-11	TAB (CONTACT)	
C332	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	CN6	1-695-915-11	TAB (CONTACT)	
C333	1-126-933-11	ELECT 100UF	20.00% 16V	CN201	1-766-296-21	CONNECTOR, DUAL SCART	
C334	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	CN205	1-785-802-11	PIN, CONNECTOR (WITH FWB) 20P	
C335	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN301	*1-568-882-51	PIN, CONNECTOR 7P	
C336	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V	CN303	*1-568-880-51	PIN, CONNECTOR 5P	
C337	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V				
C338	1-164-346-11	CERAMIC CHIP 1UF	16V				



REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
	<DIODE>			FL1001	1-236-071-11	ENCAPSULATED COMPONENT	
D2	8-719-988-61	DIODE 1SS355TE-17			<IC>		
D16	8-719-988-61	DIODE 1SS355TE-17		IC1	8-759-376-77	IC SDA30C263-GEG	
D30	8-719-988-61	DIODE 1SS355TE-17		IC2	8-759-492-55	IC M24C64-WMN6T	
D101	8-719-977-81	DIODE MA8330-TX		IC3	8-759-187-65	IC M27C2001-15F1	
D201	8-719-069-60	DIODE UDZS-TE17-9.1B		IC4	8-759-394-57	IC PST593C-MMP-4P	
D202	8-719-069-60	DIODE UDZS-TE17-9.1B		IC201	8-752-081-26	IC CXA2040AQ-T4	
D203	8-719-069-60	DIODE UDZS-TE17-9.1B		IC202	8-759-654-15	IC MSP3410D-C5-PS-B4	
D204	8-719-069-60	DIODE UDZS-TE17-9.1B		IC205	8-759-394-57	IC PST593C-MMP-4P	
D205	8-719-069-60	DIODE UDZS-TE17-9.1B		IC301	8-752-081-43	IC CXA2076Q-TL	
D206	8-719-069-60	DIODE UDZS-TE17-9.1B		IC302	8-759-565-20	IC TDA4665T/V5-118	
D207	8-719-069-60	DIODE UDZS-TE17-9.1B		IC303	8-759-430-79	IC TDA8395T/N3	
D208	8-719-069-60	DIODE UDZS-TE17-9.1B		IC1001	8-759-584-20	IC SDA5273-3CP-C55-22-GEG	
D209	8-719-069-60	DIODE UDZS-TE17-9.1B			<CHIP CONDUCTOR>		
D210	8-719-069-60	DIODE UDZS-TE17-9.1B		JR7	1-216-295-91	SHORT	0
D211	8-719-069-60	DIODE UDZS-TE17-9.1B		JR101	1-216-295-91	SHORT	0
D212	8-719-069-60	DIODE UDZS-TE17-9.1B		JR201	1-216-295-91	SHORT	0
D213	8-719-069-60	DIODE UDZS-TE17-9.1B		JR204	1-216-295-91	SHORT	0
D214	8-719-069-60	DIODE UDZS-TE17-9.1B		JR205	1-216-295-91	SHORT	0
D215	8-719-069-60	DIODE UDZS-TE17-9.1B		JR207	1-216-295-91	SHORT	0
D216	8-719-069-55	DIODE UDZS-TE17-5.6B		JR208	1-216-295-91	SHORT	0
D217	8-719-069-55	DIODE UDZS-TE17-5.6B		JR209	1-216-022-00	RES-CHIP	75 5% 1/10W
D218	8-719-069-55	DIODE UDZS-TE17-5.6B		JR211	1-216-295-91	SHORT	0
D220	8-719-988-61	DIODE 1SS355TE-17		JR212	1-216-295-91	SHORT	0
D221	8-719-988-61	DIODE 1SS355TE-17		JR213	1-216-025-91	RES-CHIP	100 5% 1/10W
D222	8-719-069-60	DIODE UDZS-TE17-9.1B		JR214	1-216-025-91	RES-CHIP	100 5% 1/10W
D223	8-719-069-60	DIODE UDZS-TE17-9.1B		JR215	1-216-025-91	RES-CHIP	100 5% 1/10W
D224	8-719-069-60	DIODE UDZS-TE17-9.1B		JR216	1-216-025-91	RES-CHIP	100 5% 1/10W
D225	8-719-069-60	DIODE UDZS-TE17-9.1B		JR391	1-216-295-91	SHORT	0
D226	8-719-069-60	DIODE UDZS-TE17-9.1B		JR1010	1-216-295-91	SHORT	0
D227	8-719-977-13	DIODE DTZ-TT11-6.8C			<COIL>		
D251	8-719-047-16	DIODE BAS216		L102	1-408-600-21	INDUCTOR	5.6UH
D302	8-719-988-61	DIODE 1SS355TE-17		L111	1-410-993-22	INDUCTOR CHIP	1UH
D303	8-719-069-55	DIODE UDZS-TE17-5.6B		L120	1-408-602-31	INDUCTOR	8.2UH
D304	8-719-069-55	DIODE UDZS-TE17-5.6B		L121	1-408-591-21	INDUCTOR	1UH
D320	8-719-069-60	DIODE UDZS-TE17-9.1B		L122	1-408-602-31	INDUCTOR	8.2UH
D331	8-719-069-55	DIODE UDZS-TE17-5.6B		L300	1-408-607-21	INDUCTOR	22UH
D370	8-719-047-16	DIODE BAS216			<TRANSISTOR>		
D401	8-719-069-57	DIODE UDZS-TE17-6.8B		Q1	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
D402	8-719-988-61	DIODE 1SS355TE-17		Q4	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
D1010	8-719-036-58	DIODE MA3030-H(TX)		Q15	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
	<FILTER>			Q30	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
FL101	1-236-071-11	ENCAPSULATED COMPONENT					
FL201	1-236-071-11	ENCAPSULATED COMPONENT					
FL202	1-236-071-11	ENCAPSULATED COMPONENT					
FL203	1-236-071-11	ENCAPSULATED COMPONENT					



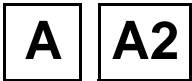
REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
Q80	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R24	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
Q81	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R25	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
Q82	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R26	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
Q110	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R28	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
Q111	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R29	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
Q112	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R30	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
Q120	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R31	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
Q121	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R32	1-216-025-91	RES-CHIP 100 5%	1/10W
Q122	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R33	1-216-025-91	RES-CHIP 100 5%	1/10W
Q124	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R34	1-216-025-91	RES-CHIP 100 5%	1/10W
Q130	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R35	1-216-025-91	RES-CHIP 100 5%	1/10W
Q140	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R39	1-216-073-00	RES-CHIP 10K 5%	1/10W
Q141	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R46	1-216-095-00	RES-CHIP 82K 5%	1/10W
Q201	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R48	1-216-121-91	RES-CHIP 1M 5%	1/10W
Q202	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R49	1-216-025-91	RES-CHIP 100 5%	1/10W
Q203	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R50	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
Q204	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R51	1-216-057-00	RES-CHIP 2.2K 5%	1/10W
Q300	1-801-806-11	TRANSISTOR DTC144EK-T147		R54	1-216-025-91	RES-CHIP 100 5%	1/10W
Q304	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R58	1-216-057-00	RES-CHIP 2.2K 5%	1/10W
Q305	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R59	1-216-025-91	RES-CHIP 100 5%	1/10W
Q306	1-801-806-11	TRANSISTOR DTC144EK-T147		R60	1-216-025-91	RES-CHIP 100 5%	1/10W
Q330	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R61	1-216-025-91	RES-CHIP 100 5%	1/10W
Q331	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R62	1-216-025-91	RES-CHIP 100 5%	1/10W
Q332	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R63	1-216-025-91	RES-CHIP 100 5%	1/10W
Q333	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R64	1-216-025-91	RES-CHIP 100 5%	1/10W
Q334	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R65	1-216-025-91	RES-CHIP 100 5%	1/10W
Q335	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R66	1-216-057-00	RES-CHIP 2.2K 5%	1/10W
Q401	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R67	1-216-057-00	RES-CHIP 2.2K 5%	1/10W
Q402	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R68	1-216-049-91	RES-CHIP 1K 5%	1/10W
Q403	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R69	1-216-049-91	RES-CHIP 1K 5%	1/10W
Q404	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R70	1-216-025-91	RES-CHIP 100 5%	1/10W
Q405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R71	1-216-025-91	RES-CHIP 100 5%	1/10W
Q1001	1-801-806-11	TRANSISTOR DTC144EK-T147		R72	1-216-025-91	RES-CHIP 100 5%	1/10W
Q1002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R73	1-216-025-91	RES-CHIP 100 5%	1/10W
				R74	1-216-025-91	RES-CHIP 100 5%	1/10W
		<RESISTOR>					
R1	1-216-049-91	RES-CHIP 1K 5%	1/10W	R75	1-216-025-91	RES-CHIP 100 5%	1/10W
R2	1-216-025-91	RES-CHIP 100 5%	1/10W	R76	1-216-025-91	RES-CHIP 100 5%	1/10W
R3	1-216-025-91	RES-CHIP 100 5%	1/10W	R77	1-216-025-91	RES-CHIP 100 5%	1/10W
R4	1-216-013-00	RES-CHIP 33 5%	1/10W	R78	1-414-233-22	INDUCTOR CHIP 0UH	
R5	1-216-065-91	RES-CHIP 4.7K 5%	1/10W	R79	1-216-033-00	RES-CHIP 220 5%	1/10W
R7	1-216-041-00	RES-CHIP 470 5%	1/10W	R80	1-216-049-91	RES-CHIP 1K 5%	1/10W
R9	1-216-041-00	RES-CHIP 470 5%	1/10W	R81	1-216-081-00	RES-CHIP 22K 5%	1/10W
R19	1-216-025-91	RES-CHIP 100 5%	1/10W	R82	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R20	1-216-025-91	RES-CHIP 100 5%	1/10W	R83	1-216-073-00	RES-CHIP 10K 5%	1/10W
R21	1-216-025-91	RES-CHIP 100 5%	1/10W	R84	1-216-081-00	RES-CHIP 22K 5%	1/10W
R22	1-216-025-91	RES-CHIP 100 5%	1/10W	R85	1-216-073-00	RES-CHIP 10K 5%	1/10W
				R86	1-216-081-00	RES-CHIP 22K 5%	1/10W



REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
R87	1-216-081-00	RES-CHIP	22K 5% 1/10W	R148	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R88	1-216-025-91	RES-CHIP	100 5% 1/10W	R149	1-216-049-91	RES-CHIP	1K 5% 1/10W
R89	1-216-025-91	RES-CHIP	100 5% 1/10W	R150	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R91	1-216-025-91	RES-CHIP	100 5% 1/10W	R151	1-216-025-91	RES-CHIP	100 5% 1/10W
R92	1-216-025-91	RES-CHIP	100 5% 1/10W	R153	1-216-295-91	SHORT	0
R93	1-216-033-00	RES-CHIP	220 5% 1/10W	R200	1-216-049-91	RES-CHIP	1K 5% 1/10W
R94	1-216-033-00	RES-CHIP	220 5% 1/10W	R203	1-216-025-91	RES-CHIP	100 5% 1/10W
R95	1-216-033-00	RES-CHIP	220 5% 1/10W	R204	1-216-025-91	RES-CHIP	100 5% 1/10W
R99	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R205	1-216-081-00	RES-CHIP	22K 5% 1/10W
R101	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R206	1-216-033-00	RES-CHIP	220 5% 1/10W
R102	1-216-025-91	RES-CHIP	100 5% 1/10W	R208	1-216-041-00	RES-CHIP	470 5% 1/10W
R103	1-216-025-91	RES-CHIP	100 5% 1/10W	R209	1-216-182-00	RES-CHIP	220 5% 1/8W
R104	1-216-073-00	RES-CHIP	10K 5% 1/10W	R210	1-216-017-91	RES-CHIP	47 5% 1/10W
R105	1-216-113-00	RES-CHIP	470K 5% 1/10W	R211	1-216-033-00	RES-CHIP	220 5% 1/10W
R106	1-216-073-00	RES-CHIP	10K 5% 1/10W	R212	1-216-022-00	RES-CHIP	75 5% 1/10W
R110	1-216-073-00	RES-CHIP	10K 5% 1/10W	R213	1-216-022-00	RES-CHIP	75 5% 1/10W
R111	1-216-029-00	RES-CHIP	150 5% 1/10W	R214	1-216-025-91	RES-CHIP	100 5% 1/10W
R112	1-216-029-00	RES-CHIP	150 5% 1/10W	R216	1-216-025-91	RES-CHIP	100 5% 1/10W
R113	1-216-001-00	RES-CHIP	10 5% 1/10W	R217	1-216-113-00	RES-CHIP	470K 5% 1/10W
R114	1-216-029-00	RES-CHIP	150 5% 1/10W	R218	1-216-025-91	RES-CHIP	100 5% 1/10W
R115	1-216-033-00	RES-CHIP	220 5% 1/10W	R219	1-216-113-00	RES-CHIP	470K 5% 1/10W
R116	1-216-025-91	RES-CHIP	100 5% 1/10W	R220	1-216-295-91	SHORT	0
R117	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R221	1-216-041-00	RES-CHIP	470 5% 1/10W
R118	1-216-097-91	RES-CHIP	100K 5% 1/10W	R222	1-216-089-91	RES-CHIP	47K 5% 1/10W
R120	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R223	1-216-295-91	SHORT	0
R121	1-216-073-00	RES-CHIP	10K 5% 1/10W	R224	1-216-041-00	RES-CHIP	470 5% 1/10W
R122	1-216-041-00	RES-CHIP	470 5% 1/10W	R225	1-216-089-91	RES-CHIP	47K 5% 1/10W
R123	1-216-031-00	RES-CHIP	180 5% 1/10W	R226	1-216-033-00	RES-CHIP	220 5% 1/10W
R124	1-216-049-91	RES-CHIP	1K 5% 1/10W	R227	1-216-022-00	RES-CHIP	75 5% 1/10W
R125	1-216-081-00	RES-CHIP	22K 5% 1/10W	R228	1-216-022-00	RES-CHIP	75 5% 1/10W
R126	1-216-025-91	RES-CHIP	100 5% 1/10W	R229	1-216-033-00	RES-CHIP	220 5% 1/10W
R127	1-216-081-00	RES-CHIP	22K 5% 1/10W	R230	1-216-022-00	RES-CHIP	75 5% 1/10W
R128	1-216-035-00	RES-CHIP	270 5% 1/10W	R232	1-216-025-91	RES-CHIP	100 5% 1/10W
R129	1-216-033-00	RES-CHIP	220 5% 1/10W	R233	1-216-025-91	RES-CHIP	100 5% 1/10W
R130	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R234	1-216-113-00	RES-CHIP	470K 5% 1/10W
R131	1-216-073-00	RES-CHIP	10K 5% 1/10W	R235	1-216-025-91	RES-CHIP	100 5% 1/10W
R132	1-216-025-91	RES-CHIP	100 5% 1/10W	R236	1-216-113-00	RES-CHIP	470K 5% 1/10W
R133	1-216-041-00	RES-CHIP	470 5% 1/10W	R237	1-216-295-91	SHORT	0
R134	1-216-001-00	RES-CHIP	10 5% 1/10W	R238	1-216-089-91	RES-CHIP	47K 5% 1/10W
R135	1-216-037-00	RES-CHIP	330 5% 1/10W	R239	1-216-041-00	RES-CHIP	470 5% 1/10W
R136	1-216-033-00	RES-CHIP	220 5% 1/10W	R240	1-216-295-91	SHORT	0
R137	1-216-049-91	RES-CHIP	1K 5% 1/10W	R241	1-216-089-91	RES-CHIP	47K 5% 1/10W
R138	1-216-041-00	RES-CHIP	470 5% 1/10W	R242	1-216-041-00	RES-CHIP	470 5% 1/10W
R144	1-216-081-00	RES-CHIP	22K 5% 1/10W	R243	1-216-033-00	RES-CHIP	220 5% 1/10W
R145	1-216-049-91	RES-CHIP	1K 5% 1/10W	R244	1-216-295-91	SHORT	0
R146	1-216-049-91	RES-CHIP	1K 5% 1/10W	R245	1-216-022-00	RES-CHIP	75 5% 1/10W
R147	1-216-033-00	RES-CHIP	220 5% 1/10W	R246	1-216-041-00	RES-CHIP	470 5% 1/10W



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R248	1-216-073-00	RES-CHIP	10K 5% 1/10W	R321	1-216-025-91	RES-CHIP	100 5% 1/10W
R249	1-216-001-00	RES-CHIP	10 5% 1/10W	R322	1-216-025-91	RES-CHIP	100 5% 1/10W
R250	1-216-073-00	RES-CHIP	10K 5% 1/10W	R323	1-216-033-00	RES-CHIP	220 5% 1/10W
R251	1-216-025-91	RES-CHIP	100 5% 1/10W	R324	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R252	1-216-025-91	RES-CHIP	100 5% 1/10W	R326	1-216-025-91	RES-CHIP	100 5% 1/10W
R253	1-216-025-91	RES-CHIP	100 5% 1/10W	R327	1-216-025-91	RES-CHIP	100 5% 1/10W
R254	1-216-025-91	RES-CHIP	100 5% 1/10W	R328	1-216-129-00	RES-CHIP	2.2M 5% 1/10W
R255	1-216-025-91	RES-CHIP	100 5% 1/10W	R329	1-216-083-00	RES-CHIP	27K 5% 1/10W
R256	1-216-025-91	RES-CHIP	100 5% 1/10W	R330	1-216-025-91	RES-CHIP	100 5% 1/10W
R257	1-216-017-91	RES-CHIP	47 5% 1/10W	R331	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R258	1-216-049-91	RES-CHIP	1K 5% 1/10W	R332	1-216-025-91	RES-CHIP	100 5% 1/10W
R265	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R333	1-216-075-00	RES-CHIP	12K 5% 1/10W
R266	1-412-002-31	INDUCTOR CHIP	4.7UH	R334	1-216-041-00	RES-CHIP	470 5% 1/10W
R267	1-412-002-31	INDUCTOR CHIP	4.7UH	R335	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R270	1-216-022-00	RES-CHIP	75 5% 1/10W	R336	1-216-109-00	RES-CHIP	330K 5% 1/10W
R271	1-216-022-00	RES-CHIP	75 5% 1/10W	R337	1-216-025-91	RES-CHIP	100 5% 1/10W
R272	1-216-022-00	RES-CHIP	75 5% 1/10W	R338	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R273	1-216-022-00	RES-CHIP	75 5% 1/10W	R339	1-216-049-91	RES-CHIP	1K 5% 1/10W
R280	1-216-049-91	RES-CHIP	1K 5% 1/10W	R340	1-216-025-91	RES-CHIP	100 5% 1/10W
R281	1-216-081-00	RES-CHIP	22K 5% 1/10W	R341	1-216-025-91	RES-CHIP	100 5% 1/10W
R282	1-216-089-91	RES-CHIP	47K 5% 1/10W	R342	1-216-049-91	RES-CHIP	1K 5% 1/10W
R283	1-216-049-91	RES-CHIP	1K 5% 1/10W	R343	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R284	1-216-081-00	RES-CHIP	22K 5% 1/10W	R344	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R285	1-216-089-91	RES-CHIP	47K 5% 1/10W	R345	1-216-025-91	RES-CHIP	100 5% 1/10W
R286	1-216-049-91	RES-CHIP	1K 5% 1/10W	R346	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R291	1-216-049-91	RES-CHIP	1K 5% 1/10W	R347	1-216-025-91	RES-CHIP	100 5% 1/10W
R292	1-216-049-91	RES-CHIP	1K 5% 1/10W	R348	1-216-025-91	RES-CHIP	100 5% 1/10W
R293	1-216-049-91	RES-CHIP	1K 5% 1/10W	R349	1-216-025-91	RES-CHIP	100 5% 1/10W
R294	1-216-049-91	RES-CHIP	1K 5% 1/10W	R350	1-216-042-00	RES-CHIP	510 5% 1/10W
R295	1-216-049-91	RES-CHIP	1K 5% 1/10W	R351	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R296	1-216-049-91	RES-CHIP	1K 5% 1/10W	R352	1-216-077-91	RES-CHIP	15K 5% 1/10W
R297	1-216-022-00	RES-CHIP	75 5% 1/10W	R353	8-719-058-24	DIODE RB501V-40TE-17	
R300	1-216-025-91	RES-CHIP	100 5% 1/10W	R354	1-216-295-91	SHORT	0
R301	1-216-033-00	RES-CHIP	220 5% 1/10W	R357	1-216-049-91	RES-CHIP	1K 5% 1/10W
R302	1-216-295-91	SHORT	0	R358	1-216-295-91	SHORT	0
R303	1-216-295-91	SHORT	0	R359	1-216-097-91	RES-CHIP	100K 5% 1/10W
R308	1-216-025-91	RES-CHIP	100 5% 1/10W	R360	1-216-049-91	RES-CHIP	1K 5% 1/10W
R309	1-216-033-00	RES-CHIP	220 5% 1/10W	R362	1-216-049-91	RES-CHIP	1K 5% 1/10W
R310	1-216-033-00	RES-CHIP	220 5% 1/10W	R364	1-216-049-91	RES-CHIP	1K 5% 1/10W
R311	1-216-295-91	SHORT	0	R370	1-216-295-91	SHORT	0
R312	1-216-295-91	SHORT	0	R401	1-216-033-00	RES-CHIP	220 5% 1/10W
R314	1-216-295-91	SHORT	0	R402	1-216-049-91	RES-CHIP	1K 5% 1/10W
R315	1-216-295-91	SHORT	0	R403	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R316	1-216-033-00	RES-CHIP	220 5% 1/10W	R404	1-216-083-00	RES-CHIP	27K 5% 1/10W
R318	1-216-089-91	RES-CHIP	47K 5% 1/10W	R405	1-216-073-00	RES-CHIP	10K 5% 1/10W
R319	1-216-081-00	RES-CHIP	22K 5% 1/10W	R406	1-216-073-00	RES-CHIP	10K 5% 1/10W
R320	1-216-025-91	RES-CHIP	100 5% 1/10W	R407	1-216-073-00	RES-CHIP	10K 5% 1/10W



REF. NO.	PART. NO.	DESCRIPTION	REMARK	REF. NO.	PART. NO.	DESCRIPTION	REMARK
R408	1-216-049-91	RES-CHIP	1K 5% 1/10W	C4033	1-163-035-00	CERAMIC CHIP 0.047UF	50V
R409	1-216-049-91	RES-CHIP	1K 5% 1/10W	C4034	1-163-035-00	CERAMIC CHIP 0.047UF	50V
R410	1-216-049-91	RES-CHIP	1K 5% 1/10W	C4035	1-163-035-00	CERAMIC CHIP 0.047UF	50V
R411	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C4036	1-163-035-00	CERAMIC CHIP 0.047UF	50V
R1001	1-216-025-91	RES-CHIP	100 5% 1/10W	C4039	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
R1002	1-216-025-91	RES-CHIP	100 5% 1/10W	C4040	1-126-933-11	ELECT 100UF	20.00% 16V
R1005	1-216-041-00	RES-CHIP	470 5% 1/10W	C4042	1-126-933-11	ELECT 100UF	20.00% 16V
R1010	1-216-295-91	SHORT	0	C4043	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R1012	1-216-041-00	RES-CHIP	470 5% 1/10W	C4044	1-126-933-11	ELECT 100UF	20.00% 16V
R1014	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C4045	1-126-933-11	ELECT 100UF	20.00% 16V
R1017	1-216-295-91	SHORT	0	C4046	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R1021	1-216-025-91	RES-CHIP	100 5% 1/10W	C4047	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R1022	1-216-025-91	RES-CHIP	100 5% 1/10W	C4048	1-126-933-11	ELECT 100UF	20.00% 16V
R1023	1-216-025-91	RES-CHIP	100 5% 1/10W	C4049	1-126-933-11	ELECT 100UF	20.00% 16V
R1024	1-216-041-00	RES-CHIP	470 5% 1/10W	C4050	1-126-933-11	ELECT 100UF	20.00% 16V
R1026	1-216-025-91	RES-CHIP	100 5% 1/10W	C4051	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R1027	1-216-025-91	RES-CHIP	100 5% 1/10W	C4052	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R1028	1-216-025-91	RES-CHIP	100 5% 1/10W	C4054	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
		<TUNER>		C4055	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
TU101	1-693-340-11	TUNER/VIF		C4056	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
		<CRYSTAL>		C4057	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
X1	1-767-154-21	VIBRATOR, CERAMIC		C4058	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
X201	1-760-628-11	VIBRATOR, CRYSTAL		C4059	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
X301	1-567-504-11	OSCILLATOR, CRYSTAL		C4060	1-126-933-11	ELECT 100UF	20.00% 16V
X302	1-567-505-11	OSCILLATOR, CRYSTAL		C4061	1-126-933-11	ELECT 100UF	20.00% 16V
X303	1-767-127-11	VIBRATOR, CERAMIC		C4062	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
X1001	1-579-965-21	VIBRATOR, CRYSTAL		C4064	1-164-156-11	CERAMIC CHIP 0.1UF	25V
				C4065	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
				C4601	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V
				C4602	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V
				C4603	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C4604	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C4605	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C4606	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C4607	1-126-959-11	ELECT 0.47UF	20.00% 50V
				C4608	1-126-959-11	ELECT 0.47UF	20.00% 50V
				C4609	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C4610	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C4611	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C4612	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C4613	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C4614	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C4615	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C4616	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C4617	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C4618	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C4619	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V

***A-1631-082-A MOUNTED PC BOARD, A2**

<CAPACITOR>

C4012	1-126-966-11	ELECT	33UF	20.00%	50V
C4018	1-126-964-11	ELECT	10UF	20.00%	50V
C4019	1-126-964-11	ELECT	10UF	20.00%	50V
C4020	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C4021	1-126-933-11	ELECT	100UF	20.00%	16V
C4022	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C4023	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C4024	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C4025	1-126-933-11	ELECT	100UF	20.00%	16V
C4026	1-126-933-11	ELECT	100UF	20.00%	16V
C4029	1-126-964-11	ELECT	10UF	20.00%	50V
C4030	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C4031	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C4032	1-163-035-00	CERAMIC CHIP	0.047UF		50V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C4620	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	CN4002	*1-564-510-11	PLUG, CONNECTOR 7P	
C4621	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	CN4003	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
C4622	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	CN4004	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
C4623	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	CN4006	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	
C4624	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN4007	*1-564-516-11	PLUG, CONNECTOR 13P	
C4625	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN4008	*1-568-878-51	PIN, CONNECTOR 3P	
C4626	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN4009	*1-564-511-11	PLUG, CONNECTOR 8P	
C4627	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN4010	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P	
C4628	1-126-960-11	ELECT 1UF	20.00% 50V	CN4601	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P	
C4629	1-126-960-11	ELECT 1UF	20.00% 50V				
C4630	1-126-960-11	ELECT 1UF	20.00% 50V			<DIODE>	
C4631	1-126-960-11	ELECT 1UF	20.00% 50V	D4001	8-719-982-24	DIODE MTZJ-T-77-33A	
C4632	1-126-960-11	ELECT 1UF	20.00% 50V	D4003	8-719-812-43	DIODE TLG124A	
C4633	1-126-960-11	ELECT 1UF	20.00% 50V	D4004	8-719-048-98	DIODE RB160L-40TE25	
C4634	1-126-964-11	ELECT 10UF	20.00% 50V	D4006	8-719-991-33	DIODE 1SS133T-77	
C4635	1-126-964-11	ELECT 10UF	20.00% 50V	D4007	8-719-109-85	DIODE MTZJ-T-77-5.1B	
C4636	1-126-964-11	ELECT 10UF	20.00% 50V	D4008	8-719-991-33	DIODE 1SS133T-77	
C4637	1-126-964-11	ELECT 10UF	20.00% 50V	D4009	8-719-991-33	DIODE 1SS133T-77	
C4638	1-126-964-11	ELECT 10UF	20.00% 50V	D4601	8-719-109-85	DIODE MTZJ-T-77-5.1B	
C4639	1-126-964-11	ELECT 10UF	20.00% 50V	D4602	8-719-929-15	DIODE MTZJ-T-77-9.1B	
C4640	1-126-933-11	ELECT 100UF	20.00% 16V	D4603	8-719-929-15	DIODE MTZJ-T-77-9.1B	
C4641	1-126-157-11	ELECT 10UF	20.00% 16V	D4604	8-719-929-15	DIODE MTZJ-T-77-9.1B	
C4642	1-163-038-91	CERAMIC CHIP 0.1UF	25V	D4605	8-719-929-15	DIODE MTZJ-T-77-9.1B	
C4643	1-126-964-11	ELECT 10UF	20.00% 50V	D4606	8-719-929-15	DIODE MTZJ-T-77-9.1B	
C4644	1-163-229-11	CERAMIC CHIP 12PF	5.00% 50V	D4607	8-719-110-31	DIODE MTZJ-T-77-12B	
C4645	1-163-229-11	CERAMIC CHIP 12PF	5.00% 50V	D4608	8-719-110-31	DIODE MTZJ-T-77-12B	
C4646	1-163-038-91	CERAMIC CHIP 0.1UF	25V	D4609	8-719-914-43	DIODE DAN202K-T-146	
C4647	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	D4610	8-719-992-02	DIODE RB705D-T146	
C4648	1-126-162-11	ELECT 3.3UF	20.00% 25V	D4611	8-719-108-12	DIODE RD9.1EW-T1	
C4649	1-163-229-11	CERAMIC CHIP 12PF	5.00% 50V	D4612	8-719-108-12	DIODE RD9.1EW-T1	
C4650	1-163-229-11	CERAMIC CHIP 12PF	5.00% 50V			<FERRITE BEAD>	
C4651	1-163-038-91	CERAMIC CHIP 0.1UF	25V	FB4015	1-414-232-22	INDUCTOR CHIP 0UH	
C4652	1-125-442-11	DOUBLE LAYER 0.022F	5.5V	FB4016	1-414-232-22	INDUCTOR CHIP 0UH	
C4653	1-163-038-91	CERAMIC CHIP 0.1UF	25V	FB4017	1-414-232-22	INDUCTOR CHIP 0UH	
C4654	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	FB4018	1-414-232-22	INDUCTOR CHIP 0UH	
C4655	1-164-346-11	CERAMIC CHIP 1UF	16V	FB4019	1-414-232-22	INDUCTOR CHIP 0UH	
C4656	1-126-964-11	ELECT 10UF	20.00% 50V	FB4020	1-414-232-22	INDUCTOR CHIP 0UH	
C4657	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	FB4021	1-414-232-22	INDUCTOR CHIP 0UH	
C4658	1-126-964-11	ELECT 10UF	20.00% 50V	FB4022	1-414-232-22	INDUCTOR CHIP 0UH	
C4659	1-104-664-11	ELECT 47UF	20.00% 25V	FB4023	1-414-232-22	INDUCTOR CHIP 0UH	
C4660	1-126-157-11	ELECT 10UF	20.00% 16V	FB4024	1-414-232-22	INDUCTOR CHIP 0UH	
C4661	1-163-038-91	CERAMIC CHIP 0.1UF	25V	FB4025	1-414-232-22	INDUCTOR CHIP 0UH	
C9914	1-163-038-91	CERAMIC CHIP 0.1UF	25V	FB4026	1-414-232-22	INDUCTOR CHIP 0UH	
		<CONNECTOR>		FB4027	1-414-232-22	INDUCTOR CHIP 0UH	
CN4000	1-695-915-11	TAB (CONTACT)		FB4028	1-414-232-22	INDUCTOR CHIP 0UH	
CN4001	1-695-915-11	TAB (CONTACT)		FB4029	1-414-232-22	INDUCTOR CHIP 0UH	

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
FB4030	1-414-232-22	INDUCTOR CHIP	OUH			<CHIP CONDUCTOR>	
FB4031	1-414-232-22	INDUCTOR CHIP	OUH				
FB4032	1-414-232-22	INDUCTOR CHIP	OUH	JR4601	1-216-295-91	SHORT	0
FB4033	1-414-232-22	INDUCTOR CHIP	OUH			<COIL>	
FB4034	1-414-232-22	INDUCTOR CHIP	OUH				
FB4035	1-414-232-22	INDUCTOR CHIP	OUH	L4001	1-410-667-31	INDUCTOR	22UH
FB4036	1-414-232-22	INDUCTOR CHIP	OUH			<TRANSISTOR>	
FB4037	1-414-232-22	INDUCTOR CHIP	OUH				
FB4039	1-414-232-22	INDUCTOR CHIP	OUH	Q4005	1-801-806-11	TRANSISTOR	DTC144EK-T146
FB4040	1-414-232-22	INDUCTOR CHIP	OUH	Q4007	1-801-806-11	TRANSISTOR	DTC144EK-T146
FB4041	1-414-232-22	INDUCTOR CHIP	OUH	Q4013	1-801-806-11	TRANSISTOR	DTC144EK-T146
FB4042	1-414-232-22	INDUCTOR CHIP	OUH	Q4601	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R
FB4043	1-414-232-22	INDUCTOR CHIP	OUH	Q4602	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R
FB4047	1-414-232-22	INDUCTOR CHIP	OUH			<RESISTOR>	
FB4048	1-414-232-22	INDUCTOR CHIP	OUH				
FB4049	1-414-232-22	INDUCTOR CHIP	OUH	R4014	1-216-113-00	RES-CHIP	470K 5% 1/10W
		<FILTER>		R4015	1-216-033-00	RES-CHIP	220 5% 1/10W
				R4017	1-216-081-00	RES-CHIP	22K 5% 1/10W
FL4001	1-239-899-21	FILTER, CHIP EMI		R4021	1-216-295-91	SHORT	0
FL4002	1-239-899-21	FILTER, CHIP EMI		R4022	1-216-295-91	SHORT	0
FL4003	1-239-899-21	FILTER, CHIP EMI		R4023	1-216-295-91	SHORT	0
FL4004	1-239-899-21	FILTER, CHIP EMI		R4024	1-216-295-91	SHORT	0
FL4005	1-239-899-21	FILTER, CHIP EMI		R4025	1-216-295-91	SHORT	0
FL4006	1-239-899-21	FILTER, CHIP EMI		R4026	1-216-295-91	SHORT	0
FL4007	1-239-899-21	FILTER, CHIP EMI		R4027	1-216-295-91	SHORT	0
FL4601	1-239-899-21	FILTER, CHIP EMI		R4028	1-216-295-91	SHORT	0
		<IC>		R4029	1-216-295-91	SHORT	0
IC4006	8-759-325-67	IC TC7SH04F(TE85R)		R4030	1-216-295-91	SHORT	0
IC4007	8-759-544-26	IC LNBP11SP-TR		R4031	1-216-295-91	SHORT	0
IC4008	8-759-988-13	IC LM393PS-E20		R4032	1-216-295-91	SHORT	0
IC4009	8-759-587-03	IC TDA8601T		R4035	1-216-049-91	RES-CHIP	1K 5% 1/10W
IC4011	8-752-072-94	IC CXA1875AM-T4		R4036	1-215-906-11	METAL OXIDE	15 5% 3W
IC4012	8-759-701-59	IC MC7809CT		R4037	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
IC4013	8-759-069-28	IC PQ05RF11		R4038	1-216-049-91	RES-CHIP	1K 5% 1/10W
IC4014	8-759-574-75	IC KA78R33-YDTU		R4039	1-216-295-91	SHORT	0
IC4015	8-759-069-28	IC PQ05RF11		R4040	1-216-022-00	RES-CHIP	75 5% 1/10W
IC4016	8-759-325-67	IC TC7SH04F(TE85R)		R4041	1-216-022-00	RES-CHIP	75 5% 1/10W
IC4601	8-752-087-76	IC CXA2089Q-T6		R4042	1-216-022-00	RES-CHIP	75 5% 1/10W
IC4602	8-759-537-44	IC S-3510ANFJA-TB		R4048	1-216-073-00	RES-CHIP	10K 5% 1/10W
IC4603	8-759-159-44	IC PST5751MT-T1		R4049	1-216-295-91	SHORT	0
IC4604	8-759-239-25	IC TC74HC4066AF(EL)		R4050	1-216-073-00	RES-CHIP	10K 5% 1/10W
IC4610	8-759-584-72	IC HD6433212W		R4052	1-216-049-91	RES-CHIP	1K 5% 1/10W
		<JACK>		R4053	1-216-025-91	RES-CHIP	100 5% 1/10W
J4001	*1-793-200-11	CONNECTOR, SQUARE TYPE 21P		R4054	1-216-025-91	RES-CHIP	100 5% 1/10W
				R4055	1-216-295-91	SHORT	0
				R4056	1-216-295-91	SHORT	0
				R4057	1-216-295-91	SHORT	0

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R4062	1-216-073-00	RES-CHIP	10K 5% 1/10W	R4641	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4063	1-216-073-00	RES-CHIP	10K 5% 1/10W	R4642	1-216-025-91	RES-CHIP	100 5% 1/10W
R4075	1-216-049-91	RES-CHIP	1K 5% 1/10W	R4643	1-216-025-91	RES-CHIP	100 5% 1/10W
R4076	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R4644	1-216-025-91	RES-CHIP	100 5% 1/10W
R4081	1-216-295-91	SHORT	0	R4645	1-216-089-91	RES-CHIP	47K 5% 1/10W
R4083	1-216-295-91	SHORT	0	R4646	1-216-089-91	RES-CHIP	47K 5% 1/10W
R4090	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V	R4647	1-216-089-91	RES-CHIP	47K 5% 1/10W
R4091	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V	R4648	1-216-089-91	RES-CHIP	47K 5% 1/10W
R4092	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V	R4649	1-216-089-91	RES-CHIP	47K 5% 1/10W
R4601	1-216-295-91	SHORT	0	R4650	1-216-089-91	RES-CHIP	47K 5% 1/10W
R4602	1-216-295-91	SHORT	0	R4651	1-216-089-91	RES-CHIP	47K 5% 1/10W
R4603	1-216-295-91	SHORT	0	R4652	1-216-089-91	RES-CHIP	47K 5% 1/10W
R4604	1-216-295-91	SHORT	0	R4655	1-216-073-00	RES-CHIP	10K 5% 1/10W
R4605	1-216-295-91	SHORT	0	R4656	1-216-049-91	RES-CHIP	1K 5% 1/10W
R4606	1-216-295-91	SHORT	0	R4657	1-216-097-91	RES-CHIP	100K 5% 1/10W
R4607	1-216-022-00	RES-CHIP	75 5% 1/10W	<TUNER>			
R4608	1-216-022-00	RES-CHIP	75 5% 1/10W	TU4003	8-598-483-00	MODULE, N/W I/F DQV-AE102F	
R4609	1-216-022-00	RES-CHIP	75 5% 1/10W	<CRYSTAL>			
R4610	1-216-025-91	RES-CHIP	100 5% 1/10W	X4601	1-567-098-61	VIBRATOR, CRYSTAL	
R4611	1-216-025-91	RES-CHIP	100 5% 1/10W	X4602	1-781-485-21	VIBRATOR, CRYSTAL	
R4612	1-216-041-00	RES-CHIP	470 5% 1/10W	*A-1638-126-A Mounted PC Board, C			
R4613	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	<CAPACITOR>			
R4614	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	C702	1-128-551-11	ELECT	22UF 20.00% 25V
R4615	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	C703	1-104-664-11	ELECT	47UF 20.00% 10V
R4616	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	C704	1-102-945-00	CERAMIC	8PF 0.50PF 50V
R4617	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	C705	1-102-945-00	CERAMIC	8PF 0.50PF 50V
R4618	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	C706	1-102-953-00	CERAMIC	18PF 5.00% 50V
R4619	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	C707	1-107-651-11	ELECT	4.7UF 20.00% 250V
R4620	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	C708	1-126-960-11	ELECT	1UF 20.00% 50V
R4621	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	C709	1-101-006-00	CERAMIC	0.047UF 50V
R4622	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	C710	1-107-651-11	ELECT	4.7UF 20.00% 250V
R4623	1-216-073-00	RES-CHIP	10K 5% 1/10W	C711	1-107-651-11	ELECT	4.7UF 20.00% 250V
R4624	1-216-073-00	RES-CHIP	10K 5% 1/10W	C712	1-101-006-00	CERAMIC	0.047UF 50V
R4627	1-216-022-00	RES-CHIP	75 5% 1/10W	C714	1-101-006-00	CERAMIC	0.047UF 50V
R4628	1-216-041-00	RES-CHIP	470 5% 1/10W	C715	1-101-006-00	CERAMIC	0.047UF 50V
R4629	1-216-113-00	RES-CHIP	470K 5% 1/10W	C716	1-102-157-00	CERAMIC	560PF 10.00% 500V
R4630	1-216-113-00	RES-CHIP	470K 5% 1/10W	C717	1-102-157-00	CERAMIC	560PF 10.00% 500V
R4631	1-216-113-00	RES-CHIP	470K 5% 1/10W	C718	1-102-157-00	CERAMIC	560PF 10.00% 500V
R4632	1-216-113-00	RES-CHIP	470K 5% 1/10W	C719	1-102-074-00	CERAMIC	0.001UF 10.00% 50V
R4633	1-216-113-00	RES-CHIP	470K 5% 1/10W	C725	1-107-651-11	ELECT	4.7UF 20.00% 250V
R4634	1-216-113-00	RES-CHIP	470K 5% 1/10W	C731	1-117-214-11	CERAMIC	0.001UF 10.00% 2KV
R4635	1-216-022-00	RES-CHIP	75 5% 1/10W				
R4636	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R4637	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R4638	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R4639	1-216-295-91	SHORT	0				
R4640	1-216-295-91	SHORT	0				



The components identified by shading and marked Δ are critical for safety
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REF. NO.	PART. NO	DESCRIPTION	REMARK
<CONNECTOR>			
CN701	*1-568-882-51	PIN, CONNECTOR 7P	
CN703	1-778-037-11	PIN, CONNECTOR 6P	
CN706	1-695-915-11	TAB (CONTACT)	
CN708	1-695-915-11	TAB (CONTACT)	
<DIODE>			
D701	8-719-109-85	DIODE MTZJ-T-77-5.1B	
D704	8-719-991-33	DIODE 1SS133T-77	
D705	8-719-991-33	DIODE 1SS133T-77	
D707	8-719-991-33	DIODE 1SS133T-77	
D709	8-719-051-85	DIODE HSS83TD	
D710	8-719-051-85	DIODE HSS83TD	
D711	8-719-051-85	DIODE HSS83TD	
D712	8-719-908-03	DIODE GP08DPKG23	
D713	8-719-109-72	DIODE MTZJ-T-77-3.9B	
D714	8-719-991-33	DIODE 1SS133T-77	
<IC>			
IC701	8-759-346-42	IC TDA6101Q/N3	
IC702	8-759-346-42	IC TDA6101Q/N3	
IC703	8-759-346-42	IC TDA6101Q/N3	
<JACK>			
J701	Δ 1-526-990-21	SOCKET, CRT	
<COIL>			
L701	1-410-667-31	INDUCTOR	22UH
<TRANSISTOR>			
Q701	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
<RESISTOR>			
R701	1-247-807-31	CARBON	100 5% 1/4W
R702	1-249-417-11	CARBON	1K 5% 1/4W
R703	1-249-437-11	CARBON	47K 5% 1/4W
R704	1-215-413-00	METAL	470 1% 1/4W
R705	1-249-441-11	CARBON	100K 5% 1/4W
R706	1-535-465-11	LEAD, JUMPER	(5.00MM)
R707	1-215-424-00	METAL	1.3K 1% 1/4W
R708	1-215-424-00	METAL	1.3K 1% 1/4W
R709	1-215-424-00	METAL	1.3K 1% 1/4W
R710	1-215-413-00	METAL	470 1% 1/4W
R711	1-249-421-11	CARBON	2.2K 5% 1/4W
R712	1-249-431-11	CARBON	15K 5% 1/4W
R718	1-249-422-11	CARBON	2.7K 5% 1/4W

REF. NO.	PART. NO	DESCRIPTION	REMARK
R719	1-249-422-11	CARBON	2.7K 5% 1/4W
R720	1-249-422-11	CARBON	2.7K 5% 1/4W
R722	1-249-435-11	CARBON	33K 5% 1/4W
R725	1-215-903-11	METAL OXIDE	68K 5% 2W
R727	1-215-903-11	METAL OXIDE	68K 5% 2W
R729	1-215-903-11	METAL OXIDE	68K 5% 2W
R731	1-202-818-00	SOLID	1K 20% 1/2W
R732	1-202-818-00	SOLID	1K 20% 1/2W
R733	1-202-818-00	SOLID	1K 20% 1/2W
R734	1-247-739-11	CARBON	100 5% 1/2W
R738	1-249-489-11	CARBON	22K 5% 1/2W
R740	1-216-391-11	METAL OXIDE	1.5 5% 3W
R742	1-215-912-11	METAL OXIDE	150 5% 3W
R743	1-202-847-00	SOLID	560K 20% 1/2W
<VARIABLE RESISTOR>			
RV701	1-241-656-21	RES, ADJ, METAL FILM 110M	
<SPARK GAP>			
SG701	1-517-712-31	GAP, SPARK	
SG702	1-517-712-31	GAP, SPARK	
SG703	1-517-712-31	GAP, SPARK	
SG704	1-519-421-11	GAP, DISCHARGE	
<CAPACITOR>			
C502	1-102-824-00	CERAMIC	470PF 5.00% 50V
C503	1-136-165-00	MYLAR	0.1UF 5.00% 50V
C504	1-102-119-00	CERAMIC	0.0015UF 10.00% 50V
C506	1-126-941-11	ELECT	470UF 20.00% 25V
C507	1-109-953-11	ELECT	2.2UF 20.00% 50V
C509	1-136-165-00	MYLAR	0.1UF 5.00% 50V
C510	1-126-969-11	ELECT	220UF 20.00% 50V
C511	1-136-202-11	MYLAR	0.33UF 5.00% 63V
C513	1-106-220-00	MYLAR	0.1UF 10.00% 100V
C514	1-136-165-00	MYLAR	0.1UF 5.00% 50V
C515	1-126-941-11	ELECT	470UF 20.00% 25V
C517	1-126-941-11	ELECT	470UF 20.00% 25V
C518	1-102-228-00	CERAMIC	470PF 10.00% 500V
C519	1-102-228-00	CERAMIC	470PF 10.00% 500V
C520	1-126-941-11	ELECT	470UF 20.00% 25V

***A-1642-253-A D Board, Complete**

- 4-201-023-01 SPACER, INSULATING
- 4-202-373-01 SPRING, IC
- 4-202-710-01 SPACER, INSULATING
- 4-382-854-11 SCREW (M3X10), P, SW (+)

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D

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C521	1-107-698-11	ELECT	10UF	20.00%	25V		
C522	1-126-964-11	ELECT	10UF	20.00%	50V		
C523	1-136-165-00	MYLAR	0.1UF	5.00%	50V		
C600	Δ 1-119-888-51	CERAMIC	2200PF	20.00%	250V		
C601	Δ 1-161-964-91	CERAMIC	0.0047UF		250V		
C602	Δ 1-161-964-91	CERAMIC	0.0047UF		250V		
C603	1-117-752-11	ELECT (BLOCK)	330UF	20.00%	450V		
C604	1-126-968-11	ELECT	100UF	20.00%	50V		
C605	1-107-929-11	ELECT	10UF	20.00%	100V		
C606	1-162-318-11	CERAMIC	0.001UF	10.00%	500V		
C607	1-104-666-11	ELECT	220UF	20.00%	25V		
C608	1-109-880-11	FILM	0.0015UF	3.00%	2KV		
C609	1-102-228-00	CERAMIC	470PF	10.00%	500V		
C611	1-102-228-00	CERAMIC	470PF	10.00%	500V		
C612	1-107-929-11	ELECT	10UF	20.00%	100V		
C613	1-124-347-51	ELECT	100UF	20.00%	160V		
C614	1-126-933-11	ELECT	100UF	20.00%	16V		
C615	1-115-789-11	ELECT	0.001F	20.00%	25V		
C616	1-115-789-11	ELECT	0.001F	20.00%	25V		
C618	1-136-165-00	MYLAR	0.1UF	5.00%	50V		
C619	1-102-228-00	CERAMIC	470PF	10.00%	500V		
C620	1-102-228-00	CERAMIC	470PF	10.00%	500V		
C622	1-107-925-11	ELECT	1UF	20.00%	100V		
C624	1-136-165-00	MYLAR	0.1UF	5.00%	50V		
C625	1-126-967-11	ELECT	47UF	20.00%	50V		
C626	1-104-666-11	ELECT	220UF	20.00%	25V		
C628	1-126-964-11	ELECT	10UF	20.00%	50V		
C629	1-115-819-11	ELECT	0.0022F	20.00%	35V		
C630	1-115-819-11	ELECT	0.0022F	20.00%	35V		
C631	1-126-965-11	ELECT	22UF	20.00%	50V		
C632	1-104-666-11	ELECT	220UF	20.00%	25V		
C636	Δ 1-119-888-51	CERAMIC	2200PF	20.00%	250V		
C638	1-136-203-11	MYLAR	0.01UF	10.00%	250V		
C640	1-106-220-00	MYLAR	0.1UF	10.00%	100V		
C641	Δ 1-113-916-11	CERAMIC	0.01UF	20.00%	250V		
C642	Δ 1-113-916-11	CERAMIC	0.01UF	20.00%	250V		
C647	1-162-116-00	CERAMIC	680PF	10.00%	2KV		
C651	1-102-228-00	CERAMIC	470PF	10.00%	500V		
C800	1-137-368-11	MYLAR	0.0047UF	5.00%	50V		
C801	1-137-368-11	MYLAR	0.0047UF	5.00%	50V		
C803	1-129-898-00	FILM	0.0022UF	5.00%	630V		
C804	1-136-165-00	MYLAR	0.1UF	5.00%	50V		
C805	1-136-207-11	MYLAR	0.047UF	10.00%	250V		
C806	1-107-370-11	MYLAR	0.1UF	10.00%	200V		
C807	1-136-540-11	FILM	0.82UF	5.00%	200V		
C811	1-162-318-11	CERAMIC	0.001UF	10.00%	500V		
C812	1-136-540-11	FILM	0.82UF	5.00%	200V		
C813	1-129-724-00	FILM	0.068UF	5.00%	630V		
C814	1-136-732-11	FILM	0.021UF	3.00%	1.4KV		
C815	1-137-046-11	MYLAR	0.0082UF	10.00%	400V		
C816	1-117-214-11	CERAMIC	0.001UF	10.00%	2KV		
C817	1-117-214-11	CERAMIC	0.001UF	10.00%	2KV		
C818	1-162-134-11	CERAMIC	470PF	10.00%	2KV		
C819	1-136-208-11	MYLAR	0.068UF	10.00%	250V		
C822	1-107-662-11	ELECT	22UF	20.00%	250V		
C824	1-123-024-21	ELECT	33UF		160V		
C829	1-126-959-11	ELECT	0.47UF	20.00%	50V		
C832	1-126-960-11	ELECT	1UF	20.00%	50V		
C834	1-128-551-11	ELECT	22UF	20.00%	25V		
C835	1-162-318-11	CERAMIC	0.001UF	10.00%	500V		
C836	1-162-117-00	CERAMIC	100PF	10.00%	500V		
C838	1-102-228-00	CERAMIC	470PF	10.00%	500V		
C839	1-136-207-11	MYLAR	0.047UF	10.00%	250V		
C841	1-102-114-00	CERAMIC	470PF	10.00%	50V		
C845	1-101-880-00	CERAMIC	47PF	5.00%	50V		
C910	1-535-465-11	LEAD, JUMPER	(5.00MM)				
C916	1-162-318-11	CERAMIC	0.001UF	10.00%	500V		
C1200	1-136-165-00	MYLAR	0.1UF	5.00%	50V		
C1201	1-137-194-81	MYLAR	0.47UF	5.00%	50V		
C1202	1-137-194-81	MYLAR	0.47UF	5.00%	50V		
C1203	1-136-169-00	MYLAR	0.22UF	5.00%	50V		
C1204	1-136-169-00	MYLAR	0.22UF	5.00%	50V		
C1205	1-101-005-00	CERAMIC	0.022UF		50V		
C1206	1-101-005-00	CERAMIC	0.022UF		50V		
C1207	1-126-933-11	ELECT	100UF	20.00%	16V		
C1208	1-126-963-11	ELECT	4.7UF	20.00%	50V		
C1209	1-126-963-11	ELECT	4.7UF	20.00%	50V		
C1210	1-126-941-11	ELECT	470UF	20.00%	25V		
C1212	1-162-318-11	CERAMIC	0.001UF	10.00%	500V		
C1213	1-162-318-11	CERAMIC	0.001UF	10.00%	500V		
C1214	1-126-933-11	ELECT	100UF	20.00%	16V		
C1215	1-137-194-81	MYLAR	0.47UF	5.00%	50V		
C1216	1-137-366-11	MYLAR	0.0022UF	5.00%	50V		
C1217	1-137-366-11	MYLAR	0.0022UF	5.00%	50V		
C1218	1-126-941-11	ELECT	470UF	20.00%	25V		
C1220	1-162-318-11	CERAMIC	0.001UF	10.00%	500V		
C1221	1-162-318-11	CERAMIC	0.001UF	10.00%	500V		
C1222	1-126-965-11	ELECT	22UF	20.00%	50V		
C1223	1-101-006-00	CERAMIC	0.047UF		50V		
<CONNECTOR>							
CN600	Δ *1-508-786-00	PIN, CONNECTOR (5MM PITCH)	2P				
CN601	Δ 1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P				
CN602	Δ *1-691-291-11	PIN, CONNECTOR (PC BOARD)	5P				
CN613	4-352-844-01	PIN, LEAD, COATING					



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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
CN616	4-352-844-01	PIN, LEAD, COATING		D637	8-719-110-17	DIODE MTZJ-T-77-10B	
CN800	*1-580-798-11	CONNECTOR PIN (DY) 6P		D638	8-719-991-33	DIODE 1SS133T-77	
CN801	*1-568-879-11	PIN, CONNECTOR 4P		D800	8-719-991-33	DIODE 1SS133T-77	
CN802	1-695-915-11	TAB (CONTACT)		D801	8-719-991-33	DIODE 1SS133T-77	
CN803	1-695-915-11	TAB (CONTACT)		D802	8-719-991-33	DIODE 1SS133T-77	
CN804	1-778-037-11	PIN, CONNECTOR 6P		D803	8-719-908-03	DIODE GP08DPKG23	
CN805	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P		D807	8-719-302-43	DIODE RGP10GPKG23	
CN901	*1-568-882-51	PIN, CONNECTOR 7P		D808	8-719-908-03	DIODE GP08DPKG23	
CN902	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P		D810	8-719-302-43	DIODE RGP10GPKG23	
CN903	*1-564-516-11	PLUG, CONNECTOR 13P		D811	8-719-110-41	DIODE MTZJ-T-77-15B	
CN904	*1-564-511-11	PLUG, CONNECTOR 8P		D812	8-719-038-49	DIODE FMV-3FU-LF027-103	
CN1401	*1-568-880-51	PIN, CONNECTOR 5P		D815	8-719-908-03	DIODE GP08DPKG23	
CN1403	*1-564-511-11	PLUG, CONNECTOR 8P		D817	8-719-109-85	DIODE MTZJ-T-77-5.1B	
CN1407	*1-564-511-11	PLUG, CONNECTOR 8P		D902	8-719-923-60	DIODE MTZJ-T-77-9.1	
CN1408	*1-568-879-11	PIN, CONNECTOR 4P		D903	8-719-923-60	DIODE MTZJ-T-77-9.1	
CN1803	*1-564-508-11	PLUG, CONNECTOR 5P		D904	8-719-923-60	DIODE MTZJ-T-77-9.1	
	<DIODE>			D905	8-719-923-60	DIODE MTZJ-T-77-9.1	
D500	8-719-109-85	DIODE MTZJ-T-77-5.1B		D906	8-719-923-60	DIODE MTZJ-T-77-9.1	
D502	8-719-979-85	DIODE RGP15GPKG23		D920	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D503	8-719-979-85	DIODE RGP15GPKG23		D1201	8-719-109-72	DIODE MTZJ-T-77-3.9B	
D504	8-719-991-33	DIODE 1SS133T-77		D1202	1-249-429-11	CARBON 10K 5% 1/4W	
D505	8-719-982-03	DIODE MTZJ-T-77-3.6A			<FERRITE BEAD>		
D506	8-719-991-33	DIODE 1SS133T-77		FB501	1-410-397-21	FERRITE 1.1UH	
D507	8-719-109-85	DIODE MTZJ-T-77-5.1B		FB600	1-410-396-41	FERRITE 0.45UH	
D510	8-719-924-13	DIODE MTZJ-T-77-22B		FB601	1-410-396-41	FERRITE 0.45UH	
D570	8-719-924-13	DIODE MTZJ-T-77-22B		FB602	1-410-397-21	FERRITE 1.1UH	
D571	8-719-924-13	DIODE MTZJ-T-77-22B		FB603	1-410-396-41	FERRITE 0.45UH	
D600	8-719-510-53	DIODE D4SB60L-F		FB604	1-410-396-41	FERRITE 0.45UH	
D601	8-719-046-77	DIODE EM1-V1		FB605	1-410-396-41	FERRITE 0.45UH	
D603	8-719-109-97	DIODE MTZJ-T-77-6.8B		FB606	1-410-397-21	FERRITE 1.1UH	
D604	8-719-046-75	DIODE EU-1-V1		FB607	1-410-397-21	FERRITE 1.1UH	
D605	8-719-302-43	DIODE RGP10GPKG23		FB608	1-410-396-41	FERRITE 0.45UH	
D606	8-719-302-43	DIODE RGP10GPKG23		FB609	1-410-397-21	FERRITE 1.1UH	
D607	8-719-046-78	DIODE EG-1Z-V1		FB800	1-410-397-21	FERRITE 1.1UH	
D608	8-719-302-06	DIODE EU2-V1		FB801	1-410-396-41	FERRITE 0.45UH	
D609	8-719-053-32	DIODE FMU-G16S		FB901	1-535-465-11	LEAD, JUMPER (5.00MM)	
D611	8-719-058-38	DIODE FMN-G12S		FB902	1-535-465-11	LEAD, JUMPER (5.00MM)	
D612	8-719-058-38	DIODE FMN-G12S			<FILTER>		
D613	8-719-058-38	DIODE FMN-G12S		FL501	1-236-163-41	ENCAPSULATED COMPONENT	
D614	8-719-058-38	DIODE FMN-G12S			<IC>		
D617	8-719-991-33	DIODE 1SS133T-77		IC500	8-759-192-71	IC STV9379	
D618	8-719-991-33	DIODE 1SS133T-77		IC600	8-749-010-92	IC STR-S6709	
D619	8-719-991-33	DIODE 1SS133T-77		IC601 Δ	8-749-013-21	IC TLP721 (D4-GR.T)	
D620	8-719-991-33	DIODE 1SS133T-77		IC602	8-749-016-19	IC SE135N-LF4	
D622	8-719-923-60	DIODE MTZJ-T-77-9.1					
D625	8-719-991-33	DIODE 1SS133T-77					

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
IC603	8-759-390-57	IC LM2940CT-5.0		Q900	8-729-119-78	TRANSISTOR 2SC1740S-RT	
IC606	8-759-267-25	IC LM2940CT-9.0		Q1200	8-729-119-78	TRANSISTOR 2SC1740S-RT	
IC800	8-759-103-93	IC LM393P		Q1201	8-729-029-94	TRANSISTOR DTC143TSA-TP	
IC1200	8-759-585-29	IC TDA7264A		Q1202	8-729-029-66	TRANSISTOR DTC114ESA-TP	
IC1201	8-759-502-21	IC TDA2822M		Q1203	8-729-029-94	TRANSISTOR DTC143TSA-TP	
	<JACK>			Q1204	8-729-029-94	TRANSISTOR DTC143TSA-TP	
J1200	1-770-218-11	JACK, PIN			<RESISTOR>		
	<COIL>			R500	1-215-457-00	METAL 33K 1% 1/4W	
L501	1-535-465-11	LEAD, JUMPER (5.00MM)		R502	1-249-421-11	CARBON 2.2K 5% 1/4W	
L502	1-412-519-11	INDUCTOR 3.3UH		R503	1-249-429-11	CARBON 10K 5% 1/4W	
L503	1-412-519-11	INDUCTOR 3.3UH		R504	1-215-457-00	METAL 33K 1% 1/4W	
L609	1-412-533-21	INDUCTOR 47UH		R505	1-249-382-11	CARBON 1.2 5% 1/4W	
L610	1-535-465-11	LEAD, JUMPER (5.00MM)		R506	1-215-441-00	METAL 6.8K 1% 1/4W	
L611	1-412-527-11	INDUCTOR 15UH		R507	1-215-888-00	METAL OXIDE 220 5% 2W	
L612	1-412-522-41	INDUCTOR 5.6UH		R508	1-216-371-00	METAL OXIDE 1.5 5% 2W	
L613	1-412-522-41	INDUCTOR 5.6UH		R509	1-249-443-11	CARBON 0.47 5% 1/4W	
L615	1-412-529-11	INDUCTOR 22UH		R510	1-249-443-11	CARBON 0.47 5% 1/4W	
L616	1-412-533-21	INDUCTOR 47UH		R519	1-215-443-00	METAL 8.2K 1% 1/4W	
L801	1-459-111-00	INDUCTOR 10MH		R520	1-215-451-00	METAL 18K 1% 1/4W	
L802	1-459-104-00	COIL, WITH CORE		R521	1-215-455-00	METAL 27K 1% 1/4W	
L803	1-420-872-00	COIL, AIR CORE		R522	1-247-863-91	CARBON 22K 5% 1/4W	
L806	1-535-465-11	LEAD, JUMPER (5.00MM)		R523	1-247-863-91	CARBON 22K 5% 1/4W	
L809	1-408-611-31	INDUCTOR 47UH		R524	1-249-425-11	CARBON 4.7K 5% 1/4W	
L813	1-412-552-11	INDUCTOR 2.2MH		R525	1-249-425-11	CARBON 4.7K 5% 1/4W	
	<IC LINK>			R526	1-249-421-11	CARBON 2.2K 5% 1/4W	
PS600	Δ 1-532-686-21	LINK, IC 2.7A/150V		R527	1-215-433-00	METAL 3.3K 1% 1/4W	
PS601	Δ 1-532-686-21	LINK, IC 2.7A/150V		R540	1-249-441-11	CARBON 100K 5% 1/4W	
PS602	Δ 1-532-686-21	LINK, IC 2.7A/150V		R600	1-216-490-11	METAL OXIDE 39K 5% 3W	
PS603	Δ 1-532-686-21	LINK, IC 2.7A/150V		R601	1-249-417-11	CARBON 1K 5% 1/4W	
	<TRANSISTOR>			R602	1-215-473-00	METAL 150K 1% 1/4W	
Q501	8-729-119-78	TRANSISTOR 2SC1740S-RT		R603	1-215-898-11	METAL OXIDE 10K 5% 2W	
Q502	8-729-119-76	TRANSISTOR 2SA933S-RT		R604	1-249-420-11	CARBON 1.8K 5% 1/4W	
Q503	8-729-030-02	TRANSISTOR DTC144ESA-TP		R605	1-216-362-11	METAL OXIDE 0.27 5% 2W	
Q601	8-729-025-04	TRANSISTOR 2SC3852A		R606	1-535-143-21	LEAD, JUMPER (12.5MM)	
Q605	8-729-119-78	TRANSISTOR 2SC1740S-RT		R607	1-216-421-11	METAL OXIDE 12 5% 1W	
Q606	8-729-029-56	TRANSISTOR DTA144ESA-TP		R608	1-216-365-00	METAL OXIDE 0.47 5% 2W	
Q607	8-729-119-78	TRANSISTOR 2SC1740S-RT		R609	1-535-465-11	LEAD, JUMPER (5.00MM)	
Q611	8-729-200-21	TRANSISTOR 2SC2500-B		R610	1-215-429-00	METAL 2.2K 1% 1/4W	
Q801	8-729-039-68	TRANSISTOR IRF620		R611	1-249-439-11	CARBON 68K 5% 1/4W	
Q802	8-729-042-86	TRANSISTOR 2SC5251-01		R612	1-249-426-11	CARBON 5.6K 5% 1/4W	
Q803	8-729-119-80	TRANSISTOR 2SC2688-L		R616	1-215-471-00	METAL 120K 1% 1/4W	
Q804	8-729-029-66	TRANSISTOR DTC114ESA-TP		R617	1-215-901-00	METAL OXIDE 33K 5% 2W	
Q805	8-729-030-02	TRANSISTOR DTC144ESA-TP		R618	1-247-863-91	CARBON 22K 5% 1/4W	
				R619	1-216-425-11	METAL OXIDE 56 5% 1W	
				R620	1-260-131-11	CARBON 470K 5% 1/2W	
				R621	1-216-425-11	METAL OXIDE 56 5% 1W	

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
<SWITCH>				C2606	1-137-150-11	MYLAR	0.01UF 5.00% 50V
S801	1-572-707-11	SWITCH, LEVER		C2607	1-137-368-11	MYLAR	0.0047UF 5.00% 50V
<SPARK GAP>				C2608	1-136-165-00	MYLAR	0.1UF 5.00% 50V
SG801	1-519-422-11	GAP, SPARK		C2609	1-126-967-11	ELECT	47UF 20.00% 50V
SG802	1-519-422-11	GAP, SPARK		C2610	1-102-228-00	CERAMIC	470PF 10.00% 500V
SG803	1-519-422-11	GAP, SPARK		C2611	1-136-169-00	MYLAR	0.22UF 5.00% 50V
<TRANSFORMER>				C2612	1-136-169-00	MYLAR	0.22UF 5.00% 50V
T601	1-429-604-11	TRANSFORMER, CONVERTER		C2613	1-136-165-00	MYLAR	0.1UF 5.00% 50V
T800	1-426-981-11	TRANSFORMER, FERRITE (PMT)		C2614	1-104-332-11	CERAMIC	470PF 10.00% 2KV
T803	Δ 1-453-341-11	FBT ASSY NX-4521/M314		C2615	1-126-967-11	ELECT	47UF 20.00% 50V
T804	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE		C2616	1-137-399-11	MYLAR	0.1UF 5.00% 100V
T805	1-433-980-12	TRANSFORMER, HORIZONTAL LINEAR		C2617	1-137-399-11	MYLAR	0.1UF 5.00% 100V
<THERMISTOR>				C2618	1-117-342-91	ELECT	220UF 20.00% 35V
THP600	1-809-827-11	THERMISTOR, POSITIVE		C2619	1-136-165-00	MYLAR	0.1UF 5.00% 50V
*A-1640-376-A Mounted PC Board, D1 (FR C+)				C2620	1-136-165-00	MYLAR	0.1UF 5.00% 50V
<CAPACITOR>				C2621	1-126-967-11	ELECT	47UF 20.00% 50V
C2201	1-102-121-00	CERAMIC	0.0022UF 10.00% 50V	C2622	1-136-165-00	MYLAR	0.1UF 5.00% 50V
C2202	1-102-121-00	CERAMIC	0.0022UF 10.00% 50V	C2623	1-136-165-00	MYLAR	0.1UF 5.00% 50V
C2203	1-126-964-11	ELECT	10UF 20.00% 50V	C2625	1-111-044-11	ELECT	0.0022F 20.00% 16V
C2204	1-126-964-11	ELECT	10UF 20.00% 50V	C2626	1-136-165-00	MYLAR	0.1UF 5.00% 50V
C2208	1-137-194-81	MYLAR	0.47UF 5.00% 50V	C2627	1-111-044-11	ELECT	0.0022F 20.00% 16V
C2209	1-136-177-00	MYLAR	1UF 5.00% 50V	C2628	1-136-165-00	MYLAR	0.1UF 5.00% 50V
C2210	1-136-177-00	MYLAR	1UF 5.00% 50V	C2630	1-111-044-11	ELECT	0.0022F 20.00% 16V
C2211	1-137-194-81	MYLAR	0.47UF 5.00% 50V	C2631	1-136-165-00	MYLAR	0.1UF 5.00% 50V
C2212	1-102-074-00	CERAMIC	0.001UF 10.00% 50V	C2632	1-111-044-11	ELECT	0.0022F 20.00% 16V
C2213	1-136-202-11	MYLAR	0.33UF 5.00% 63V	C2633	1-136-165-00	MYLAR	0.1UF 5.00% 50V
C2214	1-102-114-00	CERAMIC	470PF 10.00% 50V	C2634	1-111-044-11	ELECT	0.0022F 20.00% 16V
C2215	1-130-777-00	MYLAR	0.1UF 5.00% 63V	C2635	1-136-165-00	MYLAR	0.1UF 5.00% 50V
C2216	1-102-125-00	CERAMIC	0.0047UF 10.00% 50V	C2801	1-102-002-00	CERAMIC	680PF 10.00% 500V
C2217	1-102-106-00	CERAMIC	100PF 10.00% 50V	C2805	1-102-973-00	CERAMIC	100PF 5.00% 50V
C2218	1-130-777-00	MYLAR	0.1UF 5.00% 63V	C2806	1-136-347-11	FILM	0.0047UF 5.00% 630V
C2219	1-126-963-11	ELECT	4.7UF 20.00% 50V	C2808	1-130-491-00	MYLAR	0.047UF 5.00% 50V
C2220	1-130-777-00	MYLAR	0.1UF 5.00% 63V	C2809	1-130-483-00	MYLAR	0.01UF 5.00% 50V
C2221	1-130-777-00	MYLAR	0.1UF 5.00% 63V	C2811	1-129-716-00	FILM	0.015UF 5.00% 630V
C2222	1-130-777-00	MYLAR	0.1UF 5.00% 63V	C2813	1-102-228-00	CERAMIC	470PF 10.00% 500V
C2223	1-126-943-11	ELECT	2200UF 20.00% 25V	C2814	1-129-992-00	FILM	0.0024UF 5.00% 630V
C2224	1-126-943-11	ELECT	2200UF 20.00% 25V	C2815	1-117-455-11	FILM	22000PF 5.00% 630V
C2600	Δ 1-161-964-91	CERAMIC	0.0047UF 250V	C2817	1-126-933-11	ELECT	100UF 20.00% 16V
C2601	Δ 1-161-964-91	CERAMIC	0.0047UF 250V	C2818	1-104-665-11	ELECT	100UF 20.00% 25V
C2603	1-117-802-11	ELECT	180UF 20.00% 450V	C2819	1-126-933-11	ELECT	100UF 20.00% 16V
C2604	1-113-916-11	CERAMIC	0.01UF 20.00% 250V	C2820	1-129-725-00	FILM	0.082UF 5.00% 400V
C2605	1-161-754-00	CERAMIC	0.001UF 10.00% 2KV	C2841	1-102-244-00	CERAMIC	220PF 10.00% 500V
				C2842	1-109-954-11	ELECT	0.47UF 20.00% 160V
				C2845	1-136-684-51	FILM	0.0022UF 5.00% 50V
				C2846	1-130-491-00	MYLAR	0.047UF 5.00% 50V
				C2847	1-126-964-11	ELECT	10UF 20.00% 50V
				C2848	1-136-159-00	MYLAR	0.033UF 5.00% 50V

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C2849	1-126-964-11	ELECT	10UF	20.00%	50V		
C2850	1-130-483-00	MYLAR	0.01UF	5.00%	50V		
C2851	1-136-169-00	MYLAR	0.22UF	5.00%	50V		
C2852	1-136-169-00	MYLAR	0.22UF	5.00%	50V		
C3802	1-126-965-11	ELECT	22UF	20.00%	50V		
C3804	1-126-965-11	ELECT	22UF	20.00%	50V		
		<CONNECTOR>					
CN2202	*1-564-511-11	PLUG, CONNECTOR	8P				
CN2203	*1-564-506-11	PLUG, CONNECTOR	3P				
CN2204	1-695-915-11	TAB (CONTACT)					
CN2205	1-695-915-11	TAB (CONTACT)					
CN2503	*1-564-506-11	PLUG, CONNECTOR	3P				
CN2600	Δ *1-691-291-11	PIN, CONNECTOR (PC BOARD)	5P				
CN2601	*1-564-516-11	PLUG, CONNECTOR	13P				
CN2602	1-695-915-11	TAB (CONTACT)					
CN2804	*1-568-879-11	PIN, CONNECTOR	4P				
CN2805	1-568-878-51	PIN, CONNECTOR	3P				
CN2806	1-695-915-11	TAB (CONTACT)					
CN2807	*1-568-881-51	PIN, CONNECTOR	6P				
CN3801	*1-568-879-11	PIN, CONNECTOR	4P				
CN3802	*1-785-270-12	PIN, DY CONNECTOR (PC BOARD)					
CN3803	*1-580-798-11	CONNECTOR PIN (DY)	6P				
		<DIODE>					
D2201	8-719-109-85	DIODE	MTZJ-T-77-5.1B				
D2600	8-719-025-88	DIODE	GBU4JL-6088				
D2602	8-719-300-33	DIODE	ERB44-06TP1				
D2603	8-719-302-43	DIODE	RGP10GPKG23				
D2604	1-535-465-11	LEAD, JUMPER	(5.00MM)				
D2605	8-719-109-72	DIODE	MTZJ-T-77-3.9B				
D2606	8-719-300-33	DIODE	ERB44-06TP1				
D2608	8-719-300-33	DIODE	ERB44-06TP1				
D2609	8-719-072-17	DIODE	BYW100-200RL				
D2610	8-719-110-31	DIODE	MTZJ-T-77-12C				
D2611	8-719-058-38	DIODE	FMN-G12S				
D2612	8-719-058-38	DIODE	FMN-G12S				
D2613	8-719-072-17	DIODE	BYW100-200RL				
D2614	8-719-109-89	DIODE	MTZJ-T-77-5.6B				
D2801	8-719-110-41	DIODE	MTZJ-T-77-15B				
D2802	8-719-991-33	DIODE	1SS133T-77				
D2804	8-719-302-43	DIODE	RGP10GPKG23				
D2805	8-719-970-87	DIODE	ERA38-06TP1				
D2806	8-719-300-33	DIODE	ERB44-06TP1				
D2807	8-719-302-43	DIODE	RGP10GPKG23				
D2808	8-719-970-87	DIODE	ERA38-06TP1				
D2810	8-719-991-33	DIODE	1SS133T-77				
D2811	8-719-991-33	DIODE	1SS133T-77				
D2812	8-719-991-33	DIODE	1SS133T-77				
D2813	8-719-991-33	DIODE	1SS133T-77				
D3801	8-719-991-33	DIODE	1SS133T-77				
D3802	8-719-991-33	DIODE	1SS133T-77				
		<FERRITE BEAD>					
FB2600	1-412-911-31	FERRITE				0UH	
FB2601	1-412-911-31	FERRITE				0UH	
FB2602	1-412-911-31	FERRITE				0UH	
FB2603	1-412-911-31	FERRITE				0UH	
FB2604	1-412-911-31	FERRITE				0UH	
FB2605	1-412-911-31	FERRITE				0UH	
FB2606	1-412-911-31	FERRITE				0UH	
		<IC>					
IC2201	8-759-553-45	IC	TDA7481				
IC2600	8-759-656-38	IC	VIPER50S(022Y)				
IC2601	8-749-010-64	PHOTO COUPLER	PC123FY2				
IC2602	Δ 8-759-908-15	IC	TL431CLP-Z20				
IC2801	8-759-103-93	IC	LM393P				
IC2802	8-759-701-59	IC	MC7809CT				
IC2803	8-759-700-42	IC	NJM2904D				
		<COIL>					
L2201	1-535-465-11	LEAD, JUMPER	(5.00MM)				
L2202	1-416-857-11	INDUCTOR	65UH				
L2203	1-412-529-11	INDUCTOR	22UH				
L2600	1-412-521-31	INDUCTOR	4.7UH				
L2601	1-412-521-31	INDUCTOR	4.7UH				
L2801	1-535-465-11	LEAD, JUMPER	(5.00MM)				
L2802	1-406-677-11	INDUCTOR	10MH				
L2803	1-406-989-21	INDUCTOR	10MH				
L2805	1-406-667-11	INDUCTOR	220UH				
L2806	1-406-679-11	INDUCTOR	22MH				
L3801	1-535-465-11	LEAD, JUMPER	(5.00MM)				
L3802	1-535-465-11	LEAD, JUMPER	(5.00MM)				
L3803	1-535-465-11	LEAD, JUMPER	(5.00MM)				
		<IC LINK>					
PS2600	Δ 1-532-637-00	LINK, IC	1A/150V				
PS2601	Δ 1-532-984-11	LINK, IC	2A/90V				
PS2602	Δ 1-532-675-21	LINK, IC	1.5A/150V				
PS2603	Δ 1-532-984-11	LINK, IC	2A/90V				

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
<TRANSISTOR>				R2802	1-215-919-11	METAL OXIDE	2.2K 5% 3W
Q2201	8-729-030-02	TRANSISTOR DTC144ESA-TP		R2804	1-249-437-11	CARBON	47K 5% 1/4W
Q2202	8-729-029-66	TRANSISTOR DTC114ESA-TP		R2805	1-249-429-11	CARBON	10K 5% 1/4W
Q2203	8-729-119-78	TRANSISTOR 2SC1740S-RT		R2811	1-215-445-00	METAL	10K 1% 1/4W
Q2600	8-729-119-76	TRANSISTOR 2SA933S-RT		R2813	1-215-469-00	METAL	100K 1% 1/4W
Q2802	8-729-119-78	TRANSISTOR 2SC1740S-RT		R2814	1-215-445-00	METAL	10K 1% 1/4W
Q2805	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA		R2815	1-215-469-00	METAL	100K 1% 1/4W
Q2806	8-729-039-68	TRANSISTOR IRF620		R2816	1-215-443-00	METAL	8.2K 1% 1/4W
Q2808	8-729-119-78	TRANSISTOR 2SC1740S-RT		R2817	1-215-465-00	METAL	68K 1% 1/4W
Q2810	8-729-119-78	TRANSISTOR 2SC1740S-RT		R2818	1-215-459-00	METAL	39K 1% 1/4W
Q2811	8-729-140-97	TRANSISTOR 2SB734-T-34		R2819	1-249-421-11	CARBON	2.2K 5% 1/4W
Q2814	8-729-043-95	TRANSISTOR 2SC3840K		R2820	1-249-421-11	CARBON	2.2K 5% 1/4W
Q3801	8-729-119-78	TRANSISTOR 2SC1740S-RT		R2821	1-247-807-31	CARBON	100 5% 1/4W
Q3802	8-729-119-78	TRANSISTOR 2SC1740S-RT		R2823	1-535-465-11	LEAD, JUMPER (5.00MM)	
<RESISTOR>				R2824	1-249-425-11	CARBON	4.7K 5% 1/4W
R2201	1-535-465-11	LEAD, JUMPER (5.00MM)		R2825	1-249-417-11	CARBON	1K 5% 1/4W
R2202	1-535-465-11	LEAD, JUMPER (5.00MM)		R2826	1-249-417-11	CARBON	1K 5% 1/4W
R2203	1-101-006-00	CERAMIC 0.047UF	50V	R2827	1-249-441-11	CARBON	100K 5% 1/4W
R2204	1-249-429-11	CARBON 10K 5%	1/4W	R2828	1-249-441-11	CARBON	100K 5% 1/4W
R2205	1-247-843-11	CARBON 3.3K 5%	1/4W	R2829	1-249-441-11	CARBON	100K 5% 1/4W
R2206	1-247-843-11	CARBON 3.3K 5%	1/4W	R2830	1-215-912-11	METAL OXIDE	150 5% 3W
R2207	1-249-429-11	CARBON 10K 5%	1/4W	R2832	1-249-379-11	CARBON	0.68 5% 1/4W
R2209	1-247-897-11	CARBON 560K 5%	1/4W	R2840	1-215-922-11	METAL OXIDE	6.8K 5% 3W
R2210	1-249-417-11	CARBON 1K 5%	1/4W	R2841	1-215-922-11	METAL OXIDE	6.8K 5% 3W
R2211	1-249-435-11	CARBON 33K 5%	1/4W	R2842	1-215-923-00	METAL OXIDE	10K 5% 3W
R2212	1-249-405-11	CARBON 100 5%	1/4W	R2843	1-215-923-00	METAL OXIDE	10K 5% 3W
R2213	1-249-430-11	CARBON 12K 5%	1/4W	R2844	1-249-409-11	CARBON	220 5% 1/4W
R2214	1-249-422-11	CARBON 2.7K 5%	1/4W	R2845	1-215-489-00	METAL	680K 1% 1/4W
R2215	1-247-815-91	CARBON 220 5%	1/4W	R2846	1-247-903-00	CARBON	1M 5% 1/4W
R2216	1-249-434-11	CARBON 27K 5%	1/4W	R2847	1-249-429-11	CARBON	10K 5% 1/4W
R2600 Δ	1-202-962-11	CEMENTED 3.3 5%	10W	R2848	1-215-449-00	METAL	15K 1% 1/4W
R2601	1-217-418-00	FUSIBLE 0.47 10%	1/2W	R2849	1-215-491-00	METAL	820K 1% 1/4W
R2602	1-215-900-11	METAL OXIDE 22K 5%	2W	R2850	1-215-445-00	METAL	10K 1% 1/4W
R2603	1-247-844-11	CARBON 3.6K 5%	1/4W	R2851	1-215-445-00	METAL	10K 1% 1/4W
R2604	1-249-421-11	CARBON 2.2K 5%	1/4W	R2852	1-215-481-00	METAL	330K 1% 1/4W
R2605	1-247-815-91	CARBON 220 5%	1/4W	R2853	1-215-477-00	METAL	220K 1% 1/4W
R2606	1-249-417-11	CARBON 1K 5%	1/4W	R2854	1-215-457-00	METAL	33K 1% 1/4W
R2607	1-247-807-31	CARBON 100 5%	1/4W	R2855	1-215-457-00	METAL	33K 1% 1/4W
R2608	1-249-429-11	CARBON 10K 5%	1/4W	R2856	1-247-807-31	CARBON	100 5% 1/4W
R2609	1-249-425-11	CARBON 4.7K 5%	1/4W	R2857	1-249-413-11	CARBON	470 5% 1/4W
R2610	1-215-871-11	METAL OXIDE 2.2K 5%	1W	R2858	1-249-424-11	CARBON	3.9K 5% 1/4W
R2611	1-247-807-31	CARBON 100 5%	1/4W	R2859	1-247-807-31	CARBON	100 5% 1/4W
R2612	1-215-892-11	METAL OXIDE 1K 5%	2W	R2860	1-215-888-00	METAL OXIDE	220 5% 2W
R2613	1-215-917-11	METAL OXIDE 1K 5%	3W	R2861	1-215-888-00	METAL OXIDE	220 5% 2W
R2801	1-535-465-11	LEAD, JUMPER (5.00MM)		R3801	1-249-421-11	CARBON	2.2K 5% 1/4W
R3804	1-249-421-11	CARBON 2.2K 5%	1/4W				

D1 **D2** **H**

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

REF. NO. PART.NO DESCRIPTION REMARK

<RELAY>
 RY3801 1-755-172-11 RELAY
 RY3802 1-755-172-11 RELAY

<TRANSFORMER>
 T2600 **△** 1-435-393-11 TRANSFORMER, CONVERTER
 T2801 1-433-849-11 TRANSFORMER, FERRITE (DFT)
 T3801 1-419-090-11 COIL, CHOKE (100UH)
 T3802 1-419-090-11 COIL, CHOKE (100UH)

***A-1642-254-A Complete PC Board, D2**

<CAPACITOR>
 C8801 1-107-683-11 ELECT 2.2UF 250V
 C8802 1-136-104-00 FILM 0.16UF 5.00% 200V
 C8804 1-136-207-11 MYLAR 0.047UF 10.00% 250V
 C8805 1-136-569-11 FILM 1.2UF 5.00% 200V

<CONNECTOR>
 CN8801 *1-770-748-11 CONNECTOR, BOARD TO BOARD 12P

<DIODE>
 D8801 8-719-923-60 DIODE MTZJ-T-77-9.1
 D8802 8-719-302-43 DIODE RGP10GPKG23

<IC>
 IC8801 8-749-010-64 PHOTO COUPLER PC123FY2

<COIL>
 L8801 1-406-674-11 INDUCTOR 3.3MH
 L8802 1-406-978-11 INDUCTOR 150UH

<TRANSISTOR>
 Q8801 8-729-034-09 TRANSISTOR 2SK2518-01MR
 Q8802 8-729-030-02 TRANSISTOR DTC144ESA-TP
 Q8803 8-729-030-02 TRANSISTOR DTC144ESA-TP

<RESISTOR>
 R8801 1-215-909-11 METAL OXIDE 47 5% 3W
 R8802 1-249-441-11 CARBON 100K 5% 1/4W
 R8803 1-249-441-11 CARBON 100K 5% 1/4W
 R8804 1-249-421-11 CARBON 2.2K 5% 1/4W
 R8805 1-249-429-11 CARBON 10K 5% 1/4W
 R8806 1-247-807-31 CARBON 100 5% 1/4W
 R8807 1-202-719-00 SOLID 1M 20% 1/2W

REF. NO. PART.NO DESCRIPTION REMARK

***A-1646-183-A Mounted PC Board, H**

<CAPACITOR>
 C5617 1-126-971-11 ELECT 470UF 20.00% 50V
 C5621 1-136-165-00 MYLAR 0.1UF 5.00% 50V
 C5623 1-104-666-11 ELECT 220UF 20.00% 25V
 C5633 **△** 1-107-563-11 FILM 0.1UF 20.00% 300V
 C5635 **△** 1-107-563-11 FILM 0.1UF 20.00% 300V

C5654 1-136-165-00 MYLAR 0.1UF 5.00% 50V
 C5655 1-107-974-11 CERAMIC 47PF 5.00% 2KV
 C5657 1-126-967-11 ELECT 47UF 20.00% 50V
 C5658 1-107-679-91 ELECT 10UF 20.00% 450V
 C5901 1-102-106-00 CERAMIC 100PF 10.00% 50V

C5902 1-137-372-11 MYLAR 0.022UF 5.00% 50V
 C5903 1-137-372-11 MYLAR 0.022UF 5.00% 50V
 C5904 1-104-665-11 ELECT 100UF 20.00% 25V
 C5905 1-126-964-11 ELECT 10UF 20.00% 50V
 C5907 1-126-964-11 ELECT 10UF 20.00% 50V

C5911 1-126-964-11 ELECT 10UF 20.00% 50V
 C5913 1-102-106-00 CERAMIC 100PF 10.00% 50V

<CONNECTOR>
 CN5601 **△** *1-580-844-11 PIN, CONNECTOR (POWER)
 CN5602 **△** *1-691-291-11 PIN, CONNECTOR (PC BOARD) 5P
 CN5603 *1-691-291-11 PIN, CONNECTOR (PC BOARD) 5P
 CN5900 1-694-564-11 TERMINAL BLOCK, S
 CN5901 *1-568-882-51 PIN, CONNECTOR 7P
 CN5903 *1-564-516-11 PLUG, CONNECTOR 13P
 CN5904 *1-564-506-11 PLUG, CONNECTOR 3P
 CN5916 1-568-878-51 PIN, CONNECTOR 3P

<DIODE>
 D5601 8-719-160-65 DIODE RD16FB2
 D5602 8-719-991-33 DIODE 1SS133T-77
 D5639 8-719-109-93 DIODE MTZJ-T-77-6.2B
 D5640 8-719-063-70 DIODE D1NL20U-TA2
 D5642 8-719-510-53 DIODE D4SB60L-F

D5901 8-719-030-11 DIODE SLA-570KT3F
 *4-203-258-11 HOLDER, LED
 D5906 8-719-109-89 DIODE MTZJ-T-77-5.6B
 D5907 8-719-109-89 DIODE MTZJ-T-77-5.6B
 D5910 8-719-923-60 DIODE MTZJ-T-77-9.1

<FERRITE BEAD>
 FB5901 1-535-465-11 LEAD, JUMPER (5.00MM)
 FB5902 1-535-465-11 LEAD, JUMPER (5.00MM)

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

H **J3**

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
<FUSE>				<RELAY>			
F5601	Δ 1-576-232-21	FUSE (H.B.C.) 5A/250V		RY5602	1-755-245-11	RELAY, AC POWER	
	Δ *1-533-725-11	HOLDER, FUSE		<SWITCH>			
<IC>				S5601	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)	
IC5604	8-759-510-52	IC L4941BV		S5900	1-692-979-11	SWITCH, TACTILE	
IC5605	8-759-584-19	IC TNY253P		S5901	1-692-979-11	SWITCH, TACTILE	
IC5606	8-749-013-21	IC TLP721 (D4-GR.T)		S5902	1-692-979-11	SWITCH, TACTILE	
IC5900	8-742-134-00	HYB IC SBX1981-51		<TRANSFORMER>			
<JACK>				T5602	1-433-925-12	TRANSFORMER, CONVERTER	
J5900	1-785-448-11	JACK		<VARISTOR>			
<COIL>				VDR560	1-801-268-51	VARISTOR ERZV14D471	
L5608	1-412-527-11	INDUCTOR	15UH	*A-1651-128-A Mounted PC Board, J3			
L5901	1-408-603-31	INDUCTOR	10UH	<CAPACITOR>			
L5902	1-408-603-31	INDUCTOR	10UH	C902	1-126-964-11	ELECT 10UF	20.00% 50V
L5903	1-408-603-31	INDUCTOR	10UH	C903	1-163-038-91	CERAMIC CHIP 0.1UF	25V
L5904	1-408-603-31	INDUCTOR	10UH	C904	1-163-038-91	CERAMIC CHIP 0.1UF	25V
<FILTER>				C905	1-163-038-91	CERAMIC CHIP 0.1UF	25V
LF5600	Δ 1-431-402-11	TRANSFORMER, LINE FILTER		C906	1-163-038-91	CERAMIC CHIP 0.1UF	25V
LF5601	Δ 1-431-402-11	TRANSFORMER, LINE FILTER		C907	1-163-038-91	CERAMIC CHIP 0.1UF	25V
<TRANSISTOR>				C908	1-163-809-11	CERAMIC CHIP 0.047UF	10.00% 25V
Q5601	8-729-119-78	TRANSISTOR 2SC1740S-RT		C909	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V
<RESISTOR>				C910	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V
R5601	1-247-807-31	CARBON	100 5% 1/4W	C911	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R5602	1-249-389-11	CARBON	4.7 5% 1/4W	C913	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R5603	1-535-465-11	LEAD, JUMPER (5.00MM)		C915	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R5629	Δ 1-260-135-11	CARBON	1M 5% 1/2W	C916	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R5630	Δ 1-205-998-11	CEMENTED	1 5% 10W	C917	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R5641	1-249-417-11	CARBON	1K 5% 1/4W	C918	1-104-664-11	ELECT 47UF	20.00% 25V
R5653	1-215-863-11	METAL OXIDE	100 5% 1W	C919	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R5900	1-247-815-91	CARBON	220 5% 1/4W	C921	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R5901	1-249-401-11	CARBON	47 5% 1/4W	C922	1-163-003-11	CERAMIC CHIP 330PF	10.00% 50V
R5904	1-249-389-11	CARBON	4.7 5% 1/4W	C923	1-163-002-11	CERAMIC CHIP 270PF	10.00% 50V
R5910	1-249-422-11	CARBON	2.7K 5% 1/4W	C924	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R5911	1-249-426-11	CARBON	5.6K 5% 1/4W	C926	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R5912	1-249-429-11	CARBON	10K 5% 1/4W	C928	1-163-115-00	CERAMIC CHIP 82PF	5.00% 50V
R5913	1-247-863-91	CARBON	22K 5% 1/4W	C929	1-163-115-00	CERAMIC CHIP 82PF	5.00% 50V
R5914	1-249-437-11	CARBON	47K 5% 1/4W	C930	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R5919	1-249-437-11	CARBON	47K 5% 1/4W	C931	1-163-038-91	CERAMIC CHIP 0.1UF	25V
R5921	1-249-437-11	CARBON	47K 5% 1/4W	C932	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V
				C935	1-163-038-91	CERAMIC CHIP 0.1UF	25V

J3	J4	J5	N
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REF.NO.	PART.NO	DESCRIPTION	REMARK
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<CONNECTOR>			
CN900	*1-566-203-11	PIN, CONNECTOR (PC BOARD)	10P
CN901	1-566-203-61	PIN, CONNECTOR (PC BOARD)	10P
CN902	*1-566-201-11	PIN, CONNECTOR (PC BOARD)	8P
CN951	*1-568-882-51	PIN, CONNECTOR	7P

<IC>			
IC901	8-759-533-75	IC TDA8006AH	
IC902	8-759-533-74	IC TDA8004T	

<CHIP CONDUCTOR>			
JR901	1-216-295-91	SHORT	0

<RESISTOR>			
R901	1-216-097-91	RES-CHIP	100K 5% 1/10W
R902	1-216-073-00	RES-CHIP	10K 5% 1/10W
R903	1-216-097-91	RES-CHIP	100K 5% 1/10W
R905	1-216-295-91	SHORT	0

<CRYSTAL>			
X901	1-579-562-11	VIBRATOR, CRYSTAL	

***A-1651-127-A Mounted PC Board, J4**

<CAPACITOR>			
C4701	1-126-933-11	ELECT	100UF 20.00% 16V
C4703	1-163-038-91	CERAMIC CHIP	0.1UF 25V

<CONNECTOR>			
CN4701	1-785-802-11	PIN, CONNECTOR (WITH PWB)	20P

<DIODE>			
D4704	8-719-078-43	DIODE LTC-2636G	

<TRANSISTOR>			
Q4701	8-729-904-60	TRANSISTOR DTB113ZK-T-146	
Q4702	8-729-904-60	TRANSISTOR DTB113ZK-T-146	
Q4703	8-729-904-60	TRANSISTOR DTB113ZK-T-146	
Q4704	8-729-904-60	TRANSISTOR DTB113ZK-T-146	
Q4705	8-729-904-60	TRANSISTOR DTB113ZK-T-146	
Q4706	8-729-027-55	TRANSISTOR DTC143EKA-T146	
Q4707	8-729-027-55	TRANSISTOR DTC143EKA-T146	
Q4708	8-729-027-55	TRANSISTOR DTC143EKA-T146	
Q4709	8-729-027-55	TRANSISTOR DTC143EKA-T146	
Q4710	8-729-027-55	TRANSISTOR DTC143EKA-T146	

REF.NO.	PART.NO	DESCRIPTION	REMARK
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Q4712	8-729-027-55	TRANSISTOR DTC143EKA-T146	
Q4713	8-729-027-55	TRANSISTOR DTC143EKA-T146	

<RESISTOR>			
R4708	1-216-017-91	RES-CHIP	47 5% 1/10W
R4709	1-216-017-91	RES-CHIP	47 5% 1/10W
R4710	1-216-017-91	RES-CHIP	47 5% 1/10W
R4711	1-216-017-91	RES-CHIP	47 5% 1/10W
R4712	1-216-017-91	RES-CHIP	47 5% 1/10W
R4713	1-216-017-91	RES-CHIP	47 5% 1/10W
R4714	1-216-017-91	RES-CHIP	47 5% 1/10W
R4715	1-216-017-91	RES-CHIP	47 5% 1/10W

***A-1651-130-A Mounted PC Board, J5**

<CAPACITOR>			
C4301	1-136-165-00	MYLAR	0.1UF 5.00% 50V
C4302	1-126-966-11	ELECT	33UF 20.00% 50V

<CONNECTOR>			
CN4301	*1-770-748-11	CONNECTOR, BOARD TO BOARD	12P

<IC>			
IC4301	8-749-921-12	IC GP1F32T	

***A-1654-044-A Completed PC Board, N**

<CAPACITOR>			
C3107	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C3112	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C3123	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C3124	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C3125	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C3126	1-126-933-11	ELECT	100UF 20.00% 16V
C3127	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C3128	1-126-933-11	ELECT	100UF 20.00% 16V
C3129	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C3131	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C3132	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C3133	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C3134	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C3135	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C3136	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C3137	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C3138	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C3139	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C3246	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3140	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C3247	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3141	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C3248	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3142	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3249	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3143	1-162-936-11	CERAMIC CHIP 5PF	0.25PF 50V	C3250	1-126-964-11	ELECT 10UF	20.00% 50V
C3144	1-162-936-11	CERAMIC CHIP 5PF	0.25PF 50V	C3251	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3151	1-126-933-11	ELECT 100UF	20.00% 16V	C3252	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3152	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C3253	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3153	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C3254	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3200	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C3255	1-126-933-11	ELECT 100UF	20.00% 16V
C3202	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3256	1-126-933-11	ELECT 100UF	20.00% 16V
C3203	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3257	1-126-933-11	ELECT 100UF	20.00% 16V
C3204	1-126-933-11	ELECT 100UF	20.00% 16V	C3258	1-126-933-11	ELECT 100UF	20.00% 16V
C3206	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3263	1-126-933-11	ELECT 100UF	20.00% 16V
C3207	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3264	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3208	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3300	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3209	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3301	1-126-933-11	ELECT 100UF	20.00% 16V
C3210	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3303	1-126-933-11	ELECT 100UF	20.00% 16V
C3213	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3304	1-164-506-11	CERAMIC CHIP 4.7UF	16V
C3216	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C3305	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3218	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3306	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3219	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3307	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3220	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3308	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3221	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C3310	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3222	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3311	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3223	1-126-964-11	ELECT 10UF	20.00% 50V	C3312	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3224	1-164-506-11	CERAMIC CHIP 4.7UF	16V	C3313	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3225	1-164-506-11	CERAMIC CHIP 4.7UF	16V	C3314	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3226	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3315	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3227	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C3316	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3229	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C3317	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3230	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3318	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3231	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3319	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3232	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3320	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3233	1-126-933-11	ELECT 100UF	20.00% 16V	C3321	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3234	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3322	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3235	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3323	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3236	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3324	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3237	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3325	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C3238	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3328	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3239	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3330	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3240	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3331	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3241	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3336	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3242	1-126-933-11	ELECT 100UF	20.00% 16V	C3339	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3243	1-126-933-11	ELECT 100UF	20.00% 16V	C3341	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3244	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3342	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3245	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C3343	1-164-156-11	CERAMIC CHIP 0.1UF	25V



REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
C3347	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3108	1-543-949-22	FERRITE	OUH
C3348	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3206	1-543-949-22	FERRITE	OUH
C3349	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3400	1-543-949-22	FERRITE	OUH
C3350	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3401	1-543-949-22	FERRITE	OUH
C3351	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3402	1-543-949-22	FERRITE	OUH
C3352	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3403	1-543-949-22	FERRITE	OUH
C3353	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3404	1-543-949-22	FERRITE	OUH
C3355	1-162-926-11	CERAMIC CHIP 82PF	5.00% 50V	FB3405	1-543-949-22	FERRITE	OUH
C3406	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	FB3406	1-543-949-22	FERRITE	OUH
C3408	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	FB3407	1-543-949-22	FERRITE	OUH
C3409	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	FB3408	1-543-949-22	FERRITE	OUH
C3411	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	FB3429	1-543-949-22	FERRITE	OUH
C3412	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	FB3500	1-543-949-22	FERRITE	OUH
C3414	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	FB3501	1-543-949-22	FERRITE	OUH
C3523	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3502	1-543-949-22	FERRITE	OUH
C3524	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3503	1-543-949-22	FERRITE	OUH
C3526	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3504	1-543-949-22	FERRITE	OUH
C3527	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3505	1-543-949-22	FERRITE	OUH
C3528	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3506	1-543-949-22	FERRITE	OUH
C3529	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3507	1-543-949-22	FERRITE	OUH
C3530	1-126-933-11	ELECT 100UF	20.00% 16V	FB3508	1-543-949-22	FERRITE	OUH
C3531	1-164-156-11	CERAMIC CHIP 0.1UF	25V	FB3509	1-543-949-22	FERRITE	OUH
C3537	1-126-933-11	ELECT 100UF	20.00% 16V	FB3510	1-543-949-22	FERRITE	OUH
C3539	1-126-933-11	ELECT 100UF	20.00% 16V	FB3511	1-543-949-22	FERRITE	OUH
C3558	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	FB3512	1-543-949-22	FERRITE	OUH
<CONNECTOR>				FB3513	1-543-949-22	FERRITE	OUH
CN3301	*1-785-719-11	PIN, CONNECTOR (PWB) 26P		FB3514	1-543-949-22	FERRITE	OUH
CN3303	*1-564-510-11	PLUG, CONNECTOR 7P		FB3515	1-543-949-22	FERRITE	OUH
CN3400	1-563-486-11	SOCKET, CONNECTOR		FB3516	1-543-949-22	FERRITE	OUH
CN3500	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P		FB3517	1-543-949-22	FERRITE	OUH
CN3501	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P		FB3518	1-543-949-22	FERRITE	OUH
<DIODE>				FB3519	1-543-949-22	FERRITE	OUH
D3300	8-719-914-43	DIODE DAN202K-T-146		FB3520	1-543-949-22	FERRITE	OUH
D3400	8-719-074-69	DIODE ESDA14V2SC5		FB3521	1-543-949-22	FERRITE	OUH
D3401	8-719-074-69	DIODE ESDA14V2SC5		FB3522	1-543-949-22	FERRITE	OUH
D3500	8-719-074-69	DIODE ESDA14V2SC5		FB3523	1-543-949-22	FERRITE	OUH
<FUSE>				FB3524	1-543-949-22	FERRITE	OUH
F3400	1-533-900-21	FUSE		FB3525	1-543-949-22	FERRITE	OUH
<FERRITE BEAD>				FB3526	1-543-949-22	FERRITE	OUH
FB3100	1-543-949-22	FERRITE	OUH	FB3527	1-543-949-22	FERRITE	OUH
FB3102	1-543-949-22	FERRITE	OUH	FB3528	1-543-949-22	FERRITE	OUH
FB3103	1-543-949-22	FERRITE	OUH	FB3529	1-543-949-22	FERRITE	OUH
FB3106	1-543-949-22	FERRITE	OUH	FB3530	1-543-949-22	FERRITE	OUH
FB3107	1-543-949-22	FERRITE	OUH	FB3531	1-543-949-22	FERRITE	OUH
				FB3532	1-543-949-22	FERRITE	OUH
				FB3533	1-543-949-22	FERRITE	OUH
				FB3534	1-543-949-22	FERRITE	OUH



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
FB3535	1-543-949-22	FERRITE	OUH	IC3502	8-759-527-77	IC M24C16-MN6T	
FB3536	1-543-949-22	FERRITE	OUH			<TRANSISTOR>	
FB3537	1-543-949-22	FERRITE	OUH				
FB3538	1-543-949-22	FERRITE	OUH				
FB3539	1-543-949-22	FERRITE	OUH	Q3300	1-801-806-11	TRANSISTOR DTC144EKA-T146	
				Q3301	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FB3540	1-543-949-22	FERRITE	OUH	Q3302	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FB3541	1-543-949-22	FERRITE	OUH	Q3508	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
				Q3517	1-801-806-11	TRANSISTOR DTC144EKA-T146	
		<FILTER>				<RESISTOR>	
FL3100	1-469-458-91	INDUCTOR	OUH	R3105	1-216-864-11	SHORT	0
FL3101	1-469-458-91	INDUCTOR	OUH	R3123	1-216-821-11	RES-CHIP	1K 5% 1/16W
FL3102	1-469-458-91	INDUCTOR	OUH	R3124	1-216-821-11	RES-CHIP	1K 5% 1/16W
FL3201	1-469-458-91	INDUCTOR	OUH	R3125	1-216-821-11	RES-CHIP	1K 5% 1/16W
FL3203	1-469-458-91	INDUCTOR	OUH	R3137	1-216-833-91	RES-CHIP	10K 5% 1/16W
FL3300	1-469-458-91	INDUCTOR	OUH				
FL3301	1-469-458-91	INDUCTOR	OUH	R3146	1-216-809-11	RES-CHIP	100 5% 1/16W
FL3400	1-469-458-91	INDUCTOR	OUH	R3190	1-216-809-11	RES-CHIP	100 5% 1/16W
		<IC>		R3191	1-216-809-11	RES-CHIP	100 5% 1/16W
IC3102	8-759-590-03	IC AVIA-GTX-PCO		R3193	1-216-864-11	SHORT	0
IC3103	8-759-544-28	IC MK2720STR		R3200	1-216-809-11	RES-CHIP	100 5% 1/16W
IC3104	8-759-560-27	IC HYB5118165BSJ-60					
IC3106	8-759-325-67	IC TC7SH04F(TE85R)		R3201	1-216-797-11	RES-CHIP	10 5% 1/16W
IC3107	8-759-325-67	IC TC7SH04F(TE85R)		R3202	1-216-809-11	RES-CHIP	100 5% 1/16W
				R3203	1-216-809-11	RES-CHIP	100 5% 1/16W
IC3200	8-759-564-05	IC SAA7129H-518		R3204	1-216-797-11	RES-CHIP	10 5% 1/16W
IC3203	8-759-701-40	IC NJM3404AM-TE1		R3205	1-216-797-11	RES-CHIP	10 5% 1/16W
IC3204	8-759-639-53	IC AVIA500-B4					
IC3205	8-759-491-20	IC PCM1725U		R3206	1-216-797-11	RES-CHIP	10 5% 1/16W
IC3206	8-759-659-15	IC HYB51417BBJ-60		R3214	1-216-809-11	RES-CHIP	100 5% 1/16W
				R3216	1-216-809-11	RES-CHIP	100 5% 1/16W
IC3207	8-759-659-15	IC HYB51417BBJ-60		R3218	1-216-809-11	RES-CHIP	100 5% 1/16W
IC3208	8-759-659-15	IC HYB51417BBJ-60		R3221	1-216-843-11	RES-CHIP	68K 5% 1/16W
IC3209	8-759-659-15	IC HYB51417BBJ-60					
IC3300	8-759-342-60	IC PST575DMT-T1		R3222	1-216-864-11	SHORT	0
IC3302	8-759-539-09	IC MCF5206EFT25		R3223	1-216-821-11	RES-CHIP	1K 5% 1/16W
				R3224	1-216-821-11	RES-CHIP	1K 5% 1/16W
IC3303	8-759-666-57	IC AS4C256K16EO-35JC		R3237	1-216-835-11	RES-CHIP	15K 5% 1/16W
IC3304	8-759-666-57	IC AS4C256K16EO-35JC		R3238	1-216-843-11	RES-CHIP	68K 5% 1/16W
IC3305	8-759-564-91	IC 74LVC08APW					
IC3306	8-759-546-86	IC N74F148D-118		R3242	1-216-835-11	RES-CHIP	15K 5% 1/16W
IC3307	8-759-560-47	IC MBM29F800BA-90PFTN-FK		R3243	1-216-833-91	RES-CHIP	10K 5% 1/16W
				R3244	1-216-840-11	RES-CHIP	39K 5% 1/16W
IC3312	8-759-560-47	IC MBM29F800BA-90PFTN-FK		R3245	1-216-833-91	RES-CHIP	10K 5% 1/16W
IC3313	8-759-564-22	IC 74LVC00-PW		R3246	1-216-821-11	RES-CHIP	1K 5% 1/16W
IC3314	8-759-537-83	IC MBM29F400BC-70PFTN					
IC3315	8-759-564-09	IC 74LVC32A-PW		R3249	1-216-840-11	RES-CHIP	39K 5% 1/16W
IC3316	8-759-564-24	IC 74LV175-PW		R3255	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
				R3256	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
IC3401	8-759-654-41	IC BC0128-10QC-E		R3262	1-216-833-91	RES-CHIP	10K 5% 1/16W
IC3500	8-759-538-26	IC STV6411		R3300	1-216-821-11	RES-CHIP	1K 5% 1/16W
IC3501	8-759-239-25	IC TC74HC4066AF(EL)					
				R3301	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
				R3309	1-216-809-11	RES-CHIP	100 5% 1/16W

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

VM

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
D1702	8-719-110-88	DIODE MTZJ-T-77-39		R1724	1-249-417-11	CARBON 1K 5%	1/4W
D1703	8-719-110-88	DIODE MTZJ-T-77-39		R1725	1-249-417-11	CARBON 1K 5%	1/4W
	<IC>			R1726	1-249-429-11	CARBON 10K 5%	1/4W
IC1801	8-759-701-59	IC MC7809CT		R1727	1-249-431-11	CARBON 15K 5%	1/4W
IC1802	8-759-603-37	IC M5216P		R1728	1-249-408-11	CARBON 180 5%	1/4W
	<COIL>			R1729	1-249-408-11	CARBON 180 5%	1/4W
L1703	1-408-603-31	INDUCTOR 10UH		R1730	1-249-417-11	CARBON 1K 5%	1/4W
L1704	1-408-603-31	INDUCTOR 10UH		R1731	1-249-414-11	CARBON 560 5%	1/4W
	<IC LINK>			R1806	1-247-883-00	CARBON 150K 5%	1/4W
PS1801 Δ	1-532-605-00	LINK, IC 0.4A/150V		R1807	1-249-429-11	CARBON 10K 5%	1/4W
	<TRANSISTOR>			R1808	1-249-429-11	CARBON 10K 5%	1/4W
Q1701	8-729-119-78	TRANSISTOR 2SC1740S-RT		R1809	1-249-429-11	CARBON 10K 5%	1/4W
Q1702	8-729-119-78	TRANSISTOR 2SC1740S-RT		R1810	1-249-429-11	CARBON 10K 5%	1/4W
Q1703	8-729-017-05	TRANSISTOR 2SA1837					
Q1704	8-729-119-78	TRANSISTOR 2SC1740S-RT					
Q1705	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA					
Q1706	8-729-017-06	TRANSISTOR 2SC4793					
Q1708	8-729-119-78	TRANSISTOR 2SC1740S-RT					
Q1709	8-729-119-78	TRANSISTOR 2SC1740S-RT					
	<RESISTOR>						
R1701	1-249-397-11	CARBON 22 5%	1/4W				
R1702	1-247-807-31	CARBON 100 5%	1/4W				
R1703	1-249-416-11	CARBON 820 5%	1/4W				
R1704	1-247-807-31	CARBON 100 5%	1/4W				
R1706	1-247-815-91	CARBON 220 5%	1/4W				
R1707	1-249-411-11	CARBON 330 5%	1/4W				
R1708	1-249-417-11	CARBON 1K 5%	1/4W				
R1710	1-249-403-11	CARBON 68 5%	1/4W				
R1711	1-249-403-11	CARBON 68 5%	1/4W				
R1712	1-212-974-00	FUSIBLE 47 5%	1/2W				
R1713	1-249-386-11	CARBON 2.7 5%	1/4W				
R1714	1-249-414-11	CARBON 560 5%	1/4W				
R1715	1-249-432-11	CARBON 18K 5%	1/4W				
R1716	1-249-417-11	CARBON 1K 5%	1/4W				
R1717	1-216-476-11	METAL OXIDE 180 5%	3W				
R1718	1-249-432-11	CARBON 18K 5%	1/4W				
R1719	1-249-385-11	CARBON 2.2 5%	1/4W				
R1720	1-249-401-11	CARBON 47 5%	1/4W				
R1721	1-249-414-11	CARBON 560 5%	1/4W				
R1722	1-249-401-11	CARBON 47 5%	1/4W				
R1723	1-535-465-11	LEAD, JUMPER (5.00MM)					

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

MISCELLANEOUS

Δ	1-571-433-21	SWITCH PUSH (AC POWER)	
Δ	1-783-083-11	CORD, POWER (FILTER)	
Δ	1-453-341-11	TRANSFORMER ASSY, FLYBACK (NX-4404/U2B4)	
	1-693-340-11	TUNER/VIF	
	1-529-417-11	SUB WOOFER SPEAKER (8CM)	
	1-529-408-11	SPEAKER (4X24CM)	
Δ	8-737-786-05	PICTURE TUBE (W66LLX060X) SD-299	
Δ	1-451-481-31	DEFLECTION YOKE (Y28RCV2)	
	1-452-896-11	COIL, NA ROTATION (RT200)	
Δ	8-453-011-11	NECK ASSY, NA299-M	
Δ	1-416-466-11	COIL, DEMAGNETIC	
Δ	1-251-807-22	CAP ASSY, HIGH-VOLTAGE	
	1-452-094-00	MAGNET, ROTATABLE DISC; 15MM	
	1-452-032-00	MAGNET, DISC; 10MM	

ACCESSORIES AND PACKAGING MATERIALS

	4-205-305-51	MANUAL, INSTRUCTION	
	4-395-957-01	BAG, PROTECTION	
	*4-204-457-04	INDIVIDUAL CARTON	
	*4-204-676-01	CUSHION (UPPER) (ASSY)	
	*4-204-677-01	CUSHION (LOWER) (ASSY)	

REMOTE COMMANDER

	1-418-855-21	REMOTE COMMANDER (RM-931)	
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TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.



The TRACE interface connects to the PC's serial port. It provides connection to the TV's I²C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I²C bus
- Acknowledge check of all I²C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.



Note: For workshops already using the existing I²C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers: TRACE Starter Kit (TRACE interface + software): 9-948-320-70
TRACE Software (for users of the I²C Link interface): 9-948-340-80
TRACE IR Add-on (IR interface + Remote Commander software): 9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

* WindowsNT only supported with TRACE interface

Sony Corporation
Sony UK
Service Promotions Dept.

9-974-988-01

English
00DP7147-1
Printed in U.K.
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