

HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

AE-6B CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.
KV-29FX66E	RM-934	ESP	SCC-Q81B-A
KV-29FX66K	RM-934	OIRT	SCC-Q82A-A

ORIGINAL MANUAL ISSUE DATE: 8/2001

ALL REVISIONS AND UPDATES TO THE ORIGINAL MANUAL ARE APPENDED TO THE END OF THE PDF FILE.

REVISION DATE	REVISION TYPE	SUBJECT
---------------	---------------	---------

No revisions or updates are applicable at this time.

SERVICE MANUAL

AE-6B CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-29FX66E	RM-934	ESP	SCC-Q81B-A	KV-29FX66K	RM-934	OIRT	SCC-Q82A-A

FD Trinitron



KV-29FX66



RM-934

TRINITRON[®] COLOR TV
SONY[®]

TABLE OF CONTENTS

Section	Title	Page	Section	Title	Page
	Specifications	3	5. DIAGRAMS		
	Connectors	4	5-1.	Block Diagrams (1)	23
	Self Diagnostic Software	5		Block Diagrams (2)	24
1. GENERAL				Block Diagrams (3)	25
	Switching On the TV and			Block Diagrams (4)	26
	Automatically Tuning	6	5-2.	Circuit Board Location	26
	Introducing the Menu System	7	5-3.	Schematic Diagrams and	
	Menu Guide	7		Printed Wiring Boards	26
	Teletext	9		* A Board Schematic	27
	Remote Control Configuration			* A Board PWB	29
	for VCR/DVD	9		* VM Board Schematic.....	33
	Specifications	10		* VM Board PWB	31
	Troubleshooting	10		* H1 Board Schematic	33
				* H1 Board PWB	34
2. DISASSEMBLY				* F4 Board Schematic	33
				* F4 Board PWB	34
2-1.	Rear Cover Removal	11		* H2 Board Schematic	33
2-2.	Speaker Disconnection	11		* H2 Board PWB	34
2-3.	Chassis Removal	11		* G Board Schematic	35
2-4.	Service Position	12		* G Board PWB	34
2-5.	D and G Board Removal	12		* D Board Schematic	36
2-6.	F4 Bracket Removal	12		* D Board PWB	37
2-7.	F4 and H1 Board Removal	12		* C Board Schematic	38
2-8.	Side Control Module Removal	13		* C Board PWB	39
2-9.	H2 Board Removal	13		* M Board Schematic	40
2-10.	M Board Removal	13		* M Board PWB	39
2-11.	Service Connector for M Board.....	13	5-4.	Semiconductors	41
2-12.	Picture Tube Removal	14	5-5.	IC Blocks	44
3. SET-UP ADJUSTMENTS			6. EXPLODED VIEWS		
			6-1.	Chassis	46
3-1.	Beam Landing	16	6-2.	Picture Tube	47
3-2.	Convergence	17	7. ELECTRICAL PARTS LIST		48
3-3.	Focus Adjustment	19			
3-4.	Screen (G2), White Balance	19			
4. CIRCUIT ADJUSTMENTS					
4-1.	Electrical Adjustments	20			
4-2.	Test Mode 2	22			

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!!

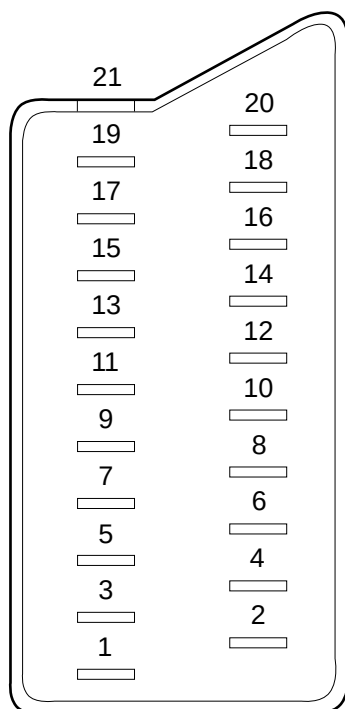
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÉ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL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

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
E	B/G/H	GERMAN/NICAM Stereo	VHF : E2-E12 UHF : E21-E69 CABLE TV : S01-S03, S1-S20	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
K	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E2-E12, R01-R12 UHF : E21-E69, R21-R69 CABLE TV : S01-S03, S1-S20	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

Picture Tube	FD Trinitron Approx 72 cm (29 inches) (Approx 68 cm picture measured diagonally) 104 degree deflection	Sound Output	
		Right and Left speaker	2x20W (Music Power) 2x10W (RMS)
		Subwoofer	1x30W (Music Power) 1x15W (RMS)
Input/Output Terminals [REAR]		General Specifications	
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Power Requirements	220 - 240V
		Power Consumption	130W
2: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (selectable)	Dimensions	Approx 771x585x506mm
		Weight	Approx 50kg
3: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs for Video and Audio signals (monitor out)	Supplied Accessories	RM-934 Remote Commander (1) IEC designated R6 battery (2)
Phono Jacks	Output Connectors variable for Audio Signals	Other Features	100 Hz picture, TV system Autodetection, Teletext, Smartlink, BBE, PIP, Virtual Dolby
Input/Output Terminals [SIDE]		Remote control system : Infrared control	
Headphone jack	stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Audio inputs	phono jacks		
Video inputs	phono jacks		
S Video input	4 pin DIN		
Design and specifications are subject to change without notice.			

Model Name Item	KV-29FX66E	KV-29FX66K
Pal Comb	OFF	OFF
PIP	ON	ON
RGB Priority	ON	ON
Woofer Box	ON	ON
Scart 1	ON	ON
Scart 2	ON	ON
Scart 3	ON	ON
Front in (4)	ON	ON
Projector	OFF	OFF
AKB in 16:9 mode	ON	ON
Norm B/G	ON	ON
Norm I	OFF	OFF
Norm D/K	OFF	ON
Norm AUS	OFF	OFF
Norm L	OFF	OFF
Norm SAT	OFF	OFF
Norm M	OFF	OFF
Teletext	ON	ON
Nicam Stereo	ON	ON

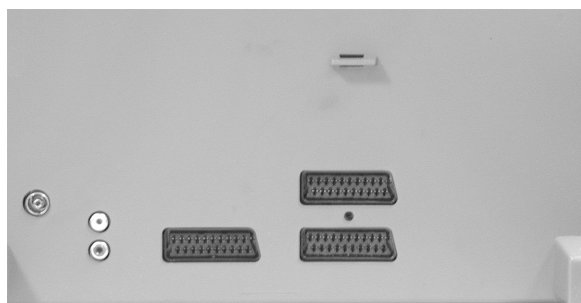
21 pin connector



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

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

Rear Connection Panel



Front Connection Panel

S-Video socket



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.

AE-6B SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AE-6B chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

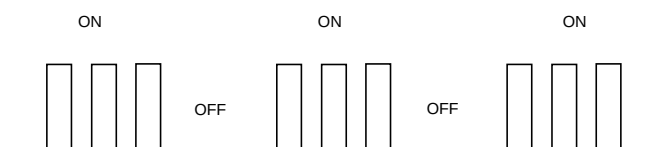
Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

Error Message	LED Code
No error	00
Reserved	01
OCF (Over Current Protection)	02
Over Voltage Protection	03
No Vertical Sync	04
IKR Error at power on	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Horizontal Protection	08
Tuner no acknowledge at power on	09
Sound Processor Error	10
Reserved	11
Scanrate Error	12
DAC Error	13
Backend Error	14
Dynamic Convergence Error	15
PIP Error	16

Flash Timing Example : e.g. error number 3

SiByLED



How to enter into Table 2

1. Turn on the main power switch of the TV set.
2. Program Remote Commander for Operation in Service Mode. [See Page 20].
2. Press 'VIDEO' 'VIDEO' > 'MENU' > ERROR MENU on the Remote Commander.
3. The following table will be displayed indicating the error count.

Table 2

ERROR MENU			
E02	OCF	(0, 255)	0
E03	OVP	(0, 255)	0
E04	VSYNC	(0, 255)	0
E05	IKR	(0, 255)	0
E06	IIC	(0, 255)	0
E07	NVM	(0, 255)	0
E08	HROT	(0, 255)	0
E09	TUNER	(0, 255)	0
E10	SOUNDP	(0, 255)	0
E11	-	(0, 255)	0
E12	SCANRATE	(0, 255)	0
E13	DAC	(0, 255)	0
E14	BACKEND	(0, 255)	0
E15	DYN CON	(0, 255)	0
E16	PIP	(0, 255)	0
WORKING TIME			
HOURS			14
MINUTES			7

Note: To clear the error count data press '80' on the Remote commander.

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.

Switching On the TV and Automatically Tuning

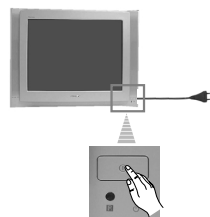
1 The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to: 1) choose the language of the menu screen, 2) choose the country in which you wish to operate the TV, 3) adjust the picture slant 4) search and store all available channels (TV Broadcast) and 5) change the order in which the channels (TV Broadcast) appear on the screen.

However, if you need to change any of these settings at a later date, you can do that by selecting the appropriate option in the **Set Up** menu or by pressing the Auto Start Up Button  on the TV set.

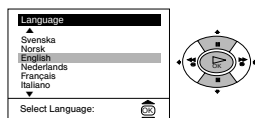
1 Connect the TV plug to the mains socket (220-240V AC, 50Hz)

The first time that the TV set is connected, it is usually turned on. If the TV is off, press the **1** on/off button on the TV set to turn on the TV.

The first time you switch on the TV, a **Language** menu displays automatically on the TV screen.

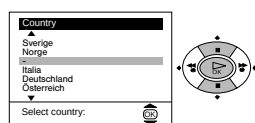


2 Press the  or  button on the remote control to select the language, then press the **OK** button to confirm your selection. From now on all the menus will appear in the selected language.



GB

3 The **Country** menu appears automatically on the TV screen. Press the  or  button to select the country in which you will operate the TV set, then press the **OK** button to confirm your selection.

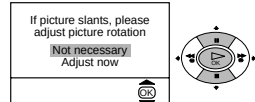


- i** • If the country in which you want to use the TV set does not appear in the list, select “-” instead of a country.
- In order to avoid wrong teletext characters for Cyrillic languages we recommend to select Russia country in the case that your own country does not appear in the list.

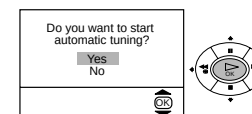
4 Because of the earth's magnetism, the picture might slant. The **Picture Rotation** menu allows you to correct the picture slants if it is necessary.

a) If it is not necessary, press  or  to select **Not necessary** and press **OK**.

b) If it is necessary, press  or  to select **Adjust now**, then press **OK** and correct any slant of the picture between -5 and +5 by pressing  or . Finally press **OK** to store.

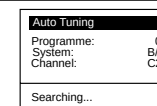


5 The Auto Tuning menu appears on the screen. Press the **OK** button to select **Yes**.

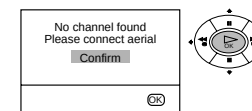


6 The TV starts to automatically search and store all available broadcast channels for you.

i This procedure could take some minutes. Please be patient and do not press any buttons, otherwise the automatic tuning will not be completed.

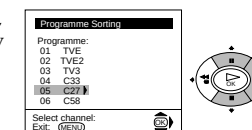


i If no channels were found during the auto tuning process then a new menu appears automatically on the screen asking you to connect the aerial. Please connect the aerial (see page 6) and press **OK**. The auto tuning process will start again.



7 i After all available channels are captured and stored, the **Programme Sorting** menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.

a) If you wish to keep the broadcast channels in the tuned order, go to step 8.

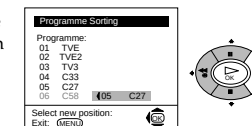


b) If you wish to store the channels in a different order:

1 Press the  or  button to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press the  button.

2 Press the  or  button to select the new programme number position for your selected channel (TV Broadcast), then press .

3 Repeat steps b)1 and b)2 if you wish to change the order of the other channels.



8 Press the **MENU** button to remove the menu from the screen.



 Your TV is now ready for use

continued...

Introducing and Using the Menu System

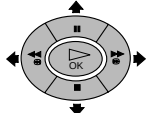
i Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

1 Press the **MENU** button to switch the first level menu on.

2

- To highlight the desired menu or option, press **↓** or **↑**.
- To enter to the selected menu or option, press **→**.
- To return to the last menu or option, press **←**.
- To alter settings of your selected option, press **↓** / **↑** / **←** or **→**.
- To confirm and store your selection, press **OK**.

MENU



3 Press the **MENU** button to remove the menu from the screen.

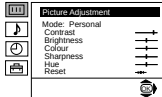
MENU



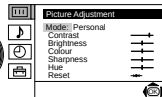
GB

Menu Guide

Level 1



Level 2



Level 3 / Function

PICTURE ADJUSTMENT
The “Picture Adjustment” menu allows you to alter the picture adjustments.

To do this: after selecting the item you want to alter press **→**, then press repeatedly **↓** / **↑** / **←** or **→** to adjust it and finally press **OK** to store the new adjustment.

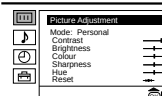
This menu also allows you to customise the picture mode based on the programme you are watching:

- ↓ Personal** (for individual settings).
- ↓ Live** (for live broadcast programmes, DVD and Digital Set Top Box receivers).
- ↓ Movie** (for films).

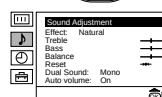
- Brightness, Colour and Sharpness** can only be altered if “Personal” mode is selected.
- Hue** is only available for NTSC colour signal (e.g: USA video tapes).
- Select **Reset** and press **OK** to reset the picture to the factory preset levels.

continued...

Level 1



Level 2



Level 3 / Function

SOUND ADJUSTMENT
The “Sound Adjustment” menu allows you to alter the sound adjustments.

To do this: after selecting the item you want to alter, press **→**, then press repeatedly **↓** / **↑** / **←** or **→** to adjust it and finally press **OK** to store the new adjustment.

Effect

- ↓ Natural:** enhances clarity, detail and presence of sound by using “BBE High Definition Sound system”*.
- ↓ Dynamic:** “BBE High Definition Sound system”* intensifies clarity and presence of sound for better intelligibility and musical realism.
- ↓ Dolby**Virtual:** simulates the sound effect of Dolby Prologic surround.
- ↓ Off:** flat response.

Treble **←** Less **→** More

Bass **←** Less **→** More

Balance **←** Left **→** Right

Reset **⊗** Resets the sound to the factory preset levels.

Dual Sound: **→** • For a stereo broadcast:
↓ Mono.
↓ Stereo.
• For a bilingual broadcast:
↓ Mono (for mono channel if available).
↓ A (for channel 1).
↓ B (for channel 2).

Auto Volume: **↓ On:** volume level changes according to the broadcast signal.
↓ Off: volume level of the channels will stay the same, independent of the broadcast signal (e.g. in the case of advertisements).

• If you are listening to the TV through headphones, the “Effect” option will automatically switched to Off.

• If you switch “Effect” to “Dolby Virtual”, the “Auto Volume” option will automatically be switched to “Off” and vice versa.

i * The “BBE High Definition Sound system” is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word “BBE” and BBE Symbol are trademarks of BBE Sound, Inc.

** This TV has been designed to create the “Dolby Surround” sound effect by simulating the sound of four speakers with two speakers, when the broadcast audio signal is Dolby Surround encoded. The sound effect can also be improved by connecting a suitable external amplifier (for details refer to “Connecting to external audio Equipment” on page 19).

i ** Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the double-D symbol **Ⓚ** are trademarks of Dolby Laboratories.

Level 1	Level 2	Level 3 / Function
		SLEEP TIMER The "Sleep Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically into the standby mode. To do this: after selecting the option press ▶ , then press ▼ or ▲ to set the time period delay (max. of 4 hours) and finally press OK to store.
		- While watching the TV, you can press the ⏮ button on the remote control to display the time remaining. - One minute before the TV switches itself into standby mode, the time remaining is displayed on the TV screen automatically.

Level 1	Level 2	Level 3 / Function
		LANGUAGE / COUNTRY The "Language/Country" option in the "Set Up" menu allows you to select the language that the menus are displayed in. It also allows you to select the country in which you wish to operate the TV set.
		To do this: after selecting the option, press ▶ and then proceed in the same way as in the steps 2 and 3 of the section "Switching On the TV and Automatically Tuning".

Level 1	Level 2	Level 3 / Function
		AUTO TUNING The "Auto Tuning" option in the "Set Up" menu allows you to automatically search for and store all available TV channels.
		To do this: after selecting the option, press ▶ and then proceed in the same way as in TV steps 5 and 6 of the section "Switching On the TV and Automatically Tuning".

continued...

GB

Level 1	Level 2	Level 3 / Function
		PROGRAMME SORTING The "Programme Sorting" option in the "Set Up" menu allows you to change the order in which the channels (TV Broadcast) appear on the screen.
		To do this: after selecting the option, press ▶ and then proceed in the same way as in step 7 b) of the section "Switching On the TV and Automatically Tuning".

Level 1	Level 2	Level 3 / Function
		PROGRAMME LABELS The "Programme Labels" option in the "Set Up" menu allows you to name a channel using up to five characters (letters or numbers).
		To do this: 1 After selecting the option, press ▶ , then press ▼ or ▲ to select the programme number with the channel you wish to name. 2 Press ▶ . With the first element of the Label column highlighted, press ▼ or ▲ to select a letter or number (select "-" for a blank), then press ▶ to confirm this character. Select the other four characters in the same way. Finally press OK to store.

Level 1	Level 2	Level 3 / Function
		AV PRESET The "AV Preset" option in the "Set Up" menu allows you to designate a name to the external equipment you have connected to the sockets of this TV.
		To do this: 1 After selecting the option, press ▶ , then press ▼ or ▲ to select the input source you wish to name (AV1, AV2 and AV3 are for the rear Scarts and AV4 for side connectors). Then press ▶ . 2 In the label column automatically appears a label: a) If you want to use one of the 6 predefined label (CABLE, GAME, CAM, DVD, VIDEO or SAT), press ▼ or ▲ to select the desired label and finally press OK to store. b) If you want to set a different label, select Edit and press ▶ . Then with the first element highlighted, press ▼ or ▲ to select a letter, number or "-" for a blank, then press ▶ to confirm this character. Select the other four characters in the same way and finally press OK to store.

continued...

Teletext

i Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.

A Make sure to use a channel (TV Broadcast) with a strong signal, otherwise teletext errors may occur.

To Switch On Teletext :

After selecting the TV channel which carries the teletext service you wish to view, press **■**.

To Select a Teletext page:

Input 3 digits for the page number, using the numbered buttons.

- If you have made a mistake, retype the correct page number.
- If the counter on the screen continues searching, it is because this page is not available. In that case, input another page number

To access the next or preceding page:

Press **PROG +** (**■**) or **PROG -** (**■**).

To superimpose teletext on to the TV:

Whilst you are viewing teletext, press **■**. Press it again to cancel teletext mode.

To freeze a teletext page:

Press **■**/**■**. Press it again to cancel the freeze.

To reveal concealed information (e.g: answer to a quiz):

Press **■**/**■**. Press it again to conceal the information.

To select a sub page:

A teletext page may consist of several sub pages. In this case the page number that appears on the upper left corner will become from yellow to green colour and one or more arrows will appear next to the page number. Press repeatedly **■** or **■** buttons on the remote control to watch the desired sub page.

To Switch Off Teletext:

Press **■**.

Fastext

i Fastext service lets you access pages with one button push.

While you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) to access the corresponding page.



GB

Remote Control Configuration for VCR/DVD

This remote control is default to operate basic functions of this Sony TV, Sony DVD and most of Sony VCR when batteries are initially installed. To control other VCR and DVD major brands and some Sony VCR models, please complete the following steps:

i Before you start, look up the 3 digit code for your brand of DVD or VCR from the list below. On those brands that have more than one code, enter the first code number.

- Sony will endeavour to update the software according to market changes. Therefore, please refer to code table included with the remote control for latest code set.

1 Press the Media Selector button on the remote control repeatedly until the required VCR or DVD green light is lit.

A If Media Selector is on TV position, code numbers will not be stored.

2 Before the green light goes out, press and hold the yellow button for approximately 6 seconds until the green light starts flashing.

3 Whilst the green light is flashing, enter all three digits of the code for your brand using the number buttons on the remote control.

i If your selected code is entered correctly, all three green lights will be lit momentarily.

4 Turn on your brand VCR or DVD and check that the main functions work.

A If your device is not working or some of the functions do not work please check you entered the correct code set or try the next code listed against the brand.

- Your brand codes may be lost if weak batteries are not replaced within a few minutes. To reset your brand DVD or VCR please repeat the above steps. A small label is added inside the battery door to allow you to record your brand codes.

- Not all brands are covered and not all models of every brand may be covered.



VCR Brand List

Brand	Code
SONY (VHS)	301, 302, 303, 308, 309
SONY (BETA)	303, 307, 310
SONY (DV)	304, 305, 306
AIWA	325, 331, 351
AKAI	326, 329, 330
DAEWOO	342, 343
GRUNDIG	358, 355, 360, 361, 320, 351
HITACHI	327, 333, 334
JVC	314, 315, 322, 344, 352, 353, 354, 348, 349
LG	332, 338
LOEWE	358, 355, 360, 361, 320, 351
MATSUI	356, 357
ORION	328
PANASONIC	321, 323
PHILIPS	311, 312, 313, 316, 317, 318, 358, 359
SAMSUNG	339, 340, 341, 345
SANYO	335, 336
SHARP	324
THOMSON	319, 350
TOSHIBA	337

DVD Brand List

Brand	Code
SONY	001
AIWA	021
DENON	018, 027, 020, 002
GRUNDIG	009, 028, 023, 024, 016, 003
HITACHI	025, 026, 015, 004
JVC	006, 017
KENWOOD	008
LG	015, 014
LOEWE	009, 028, 023, 024, 016, 003
MATSUI	013, 016
ONKYO	022
PANASONIC	018, 027, 020, 002
PHILIPS	009, 028, 023, 024, 016, 003
PIONEER	004
SAMSUNG	011, 014
SANYO	007
SHARP	019, 027
THOMSON	012
TOSHIBA	003
YAMAHA	018, 027, 020, 002

Specifications

TV system:

Depending on your country selection:
B/G/H, D/K

Colour system:

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

Channel Coverage:

VHF: E2-E12
UHF: E21-E69
CATV: S1-S20
HYPER: S21-S41
D/K: R1-R12, R21-R69

Picture Tube:

Flat Display FD Trinitron
29" (approx. 73 cm. measured diagonally)

Rear Terminals

 1 21-pin scart connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.

 2 21-pin Scart connector (CENELEC standard) including audio / video input, RGB input, TV audio/video output.

 3 21-pin Scart connector (CENELEC standard) including audio / video input, S video input, selectable audio / video output and Smartlink interface.

 audio outputs (Left/Right) - phono jacks

Side Terminals

 4 S Video input – 4 pin DIN

 4 video input – phono jack

 4 audio input – phono jacks

 headphones jack

Sound Output:

2 x 20 W (music power)
2 x 10 W (RMS)

Woofers:

30 W (music power)
15 W (RMS)

Power Consumption:

130 W

Standby Power Consumption:

0.3 W

Dimensions (w x h x d) :

Approx. 771 x 585 x 506 mm.

Weight:

Approx. 50 Kg.

Accessories supplied:

1 Remote Control (RM-934)
2 Batteries (IEC designated)

Other features:

- 100 Hz picture
- Teletext, Fasttext, TOPtext (250 page TEXT memory)
- Sleep Timer
- Smartlink (direct link between your TV set and a compatible VCR. For more information on Smartlink, please refer to the Instruction Manual of your VCR).
- TV system Autodetection.
- Dolby Virtual.
- BBE.
- PIP.

GB

Troubleshooting

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

Problem	Solution
No picture (screen is dark) and no sound.	• Check the aerial connection. • Plug the TV in and press the  button on the front of the TV. • If the standby indicator  is on, press TV  button on the remote control.
Poor or no picture (screen is dark), but good sound.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings.
No picture or no menu information from equipment connected to the Scart connector.	• Check that the optional equipment is on and press the  button repeatedly on the remote control until the correct input symbol is displayed on the screen.
Good picture, no sound.	• Press the  +/- button on the remote control. • Check that "TV Speakers" is "On" on the "Detail Set Up" menu. • Check that headphones are not connected.
No colour on colour programmes.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings.
Distorted picture when changing programmes or selecting teletext.	• Turn off any equipment connected to the Scart connector on the rear of the TV.
Wrong characters appear when viewing teletext.	• Using the menu system, enter to the "Language/Country" menu and select the country in which you operate the TV set. For Cyrillic languages, we recommend to select Russia country in the case that your own country does not appear in the list.
Picture slanted	• Using the menu system, select the "Picture Rotation" option in the "Detail Set Up" menu to correct the picture slant.
Noisy picture when viewing a TV channel.	• Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception. • Using the menu system, select the "Noise Reduction" option in the "Detail Set Up" menu and select "Auto" to reduce the noise in the picture.
No unscrambling or unstable picture whilst viewing a scrambling channel with a decoder connected through the Scart connector  3/  3.	• Using the menu system, select the "Set Up" menu. Then enter to "Detail Set Up" option and set "AV2 Output" to "TV".
Remote control does not function.	• Check that the Media Selector on the remote control is set according to the device you are using (VCR, TV or DVD). • If the remote control does not operate the VCR or DVD even when the Media Selector has been set correctly. Enter the necessary code set as explained on "Remote Control Configuration for VCR/DVD" chapter of this instruction manual. • Replace the batteries.
The standby indicator  on the TV flashes.	• Contact your nearest Sony service centre.

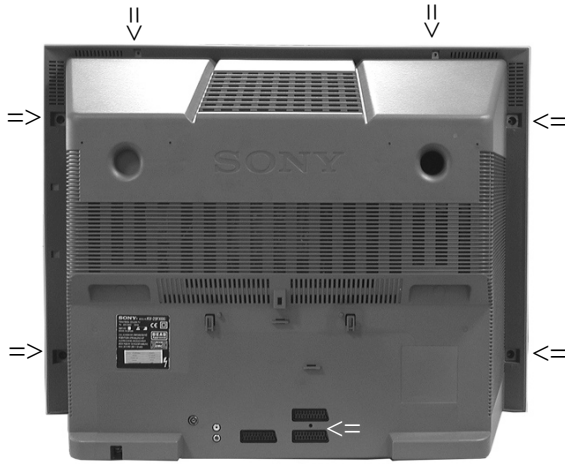
 If you continue to experience problems, have your TV serviced by qualified personnel. Never open the casing yourself.

Design and specifications are subject to change without notice.

100% Recycled Paper - Totally Chlorine Free 

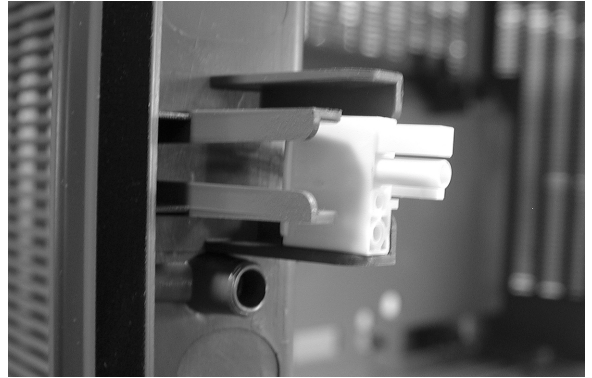
SECTION 2 DISASSEMBLY

2-1. Rear Cover Removal



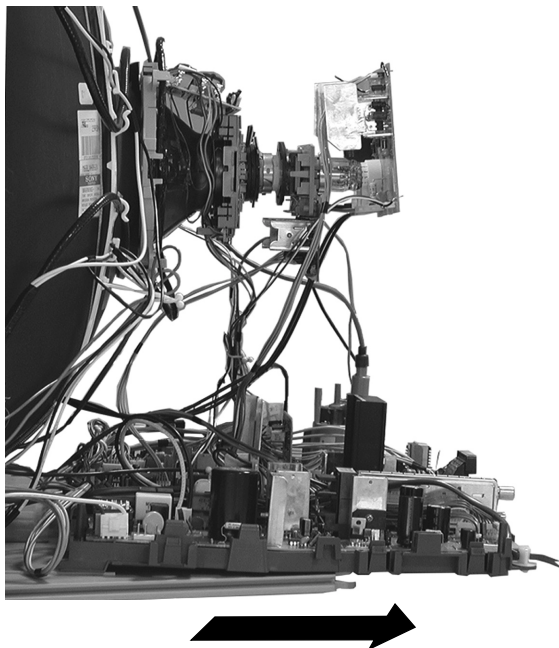
Remove the rear cover fixing screws indicated. Take care when removing the rear cover not to damage the speaker cables [Disconnect the speaker connector] as speakers are fitted inside the rear cover.

2-2. Speaker Connector Disconnection

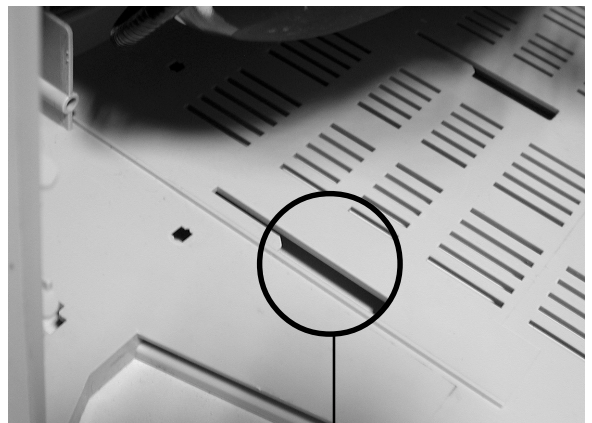


Before completely removing the rear cover disconnect the speaker connector which is located on the inside.

2-3. Chassis Removal and Refitting

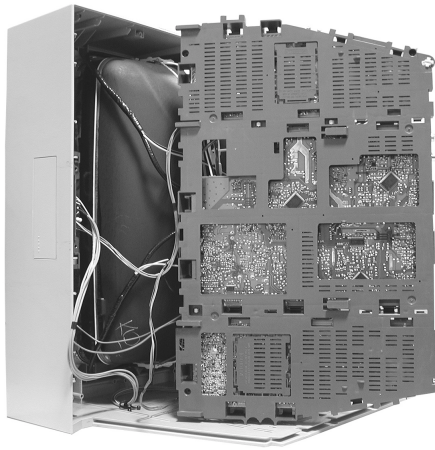


To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



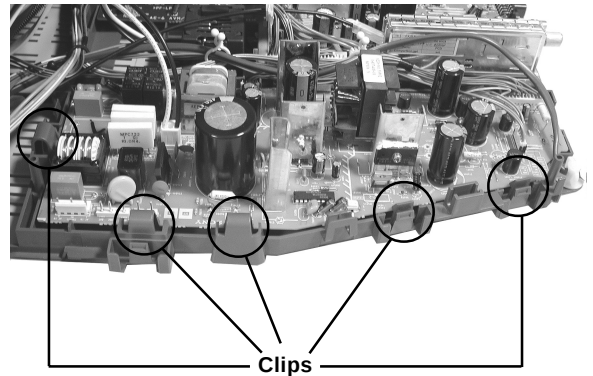
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the interconnecting leads in their respective purse locks.

2-4. Service Position



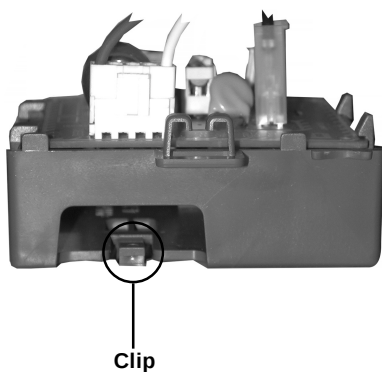
Position the chassis as indicated to access the solder side. To gain access to the underside of the boards follow the instructions on page 15. [Removal and Replacement of the main bracket bottom plates].

2-5. D and G Board Removal



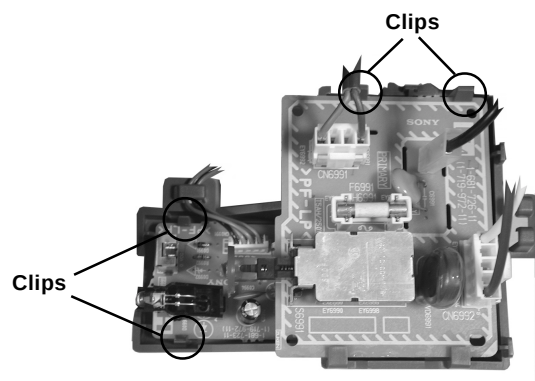
To remove the G Board release the clips circled and ease the board gently away from the support bracket. Removal of the D Board follows the same procedure.

2-6. F4 Bracket Removal



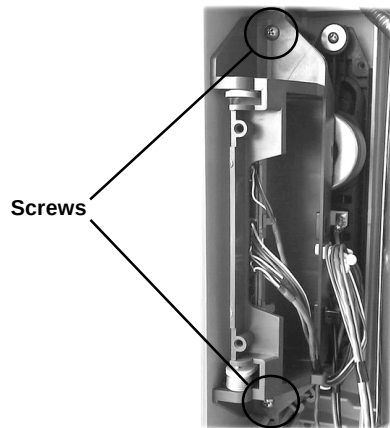
Release the clips circled and pull the bracket towards the rear of the set. The bracket can then be removed to allow access to the boards.

2-7. F4 and H1 Board Removal



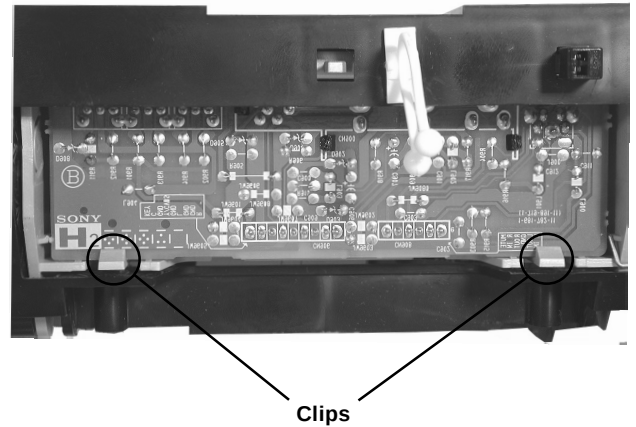
To remove the F4 and H1 Boards release the clips circled and ease the boards gently away from the support bracket.

2-8. Side Control Module Removal



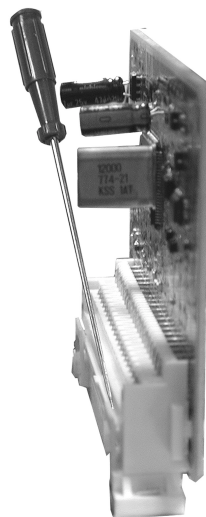
Remove the two screws fixing the user control module to the side of the set. The control module can then be removed by sliding it towards the rear of the set allowing access to the H2 Board.

2-9. H2 Board Removal



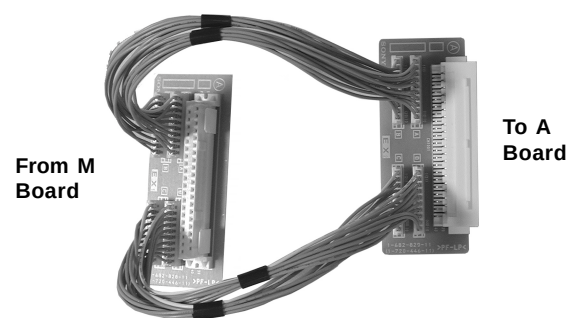
To remove the H2 Board release the two clips circled and ease the board gently away from the support bracket.

2-10. M Board Removal



To remove the M Board gently release the two clips with a screwdriver and remove the board from its socket vertically.

2-11. Service Connector for M Board



Extender Board Assembly A-1642-293-A

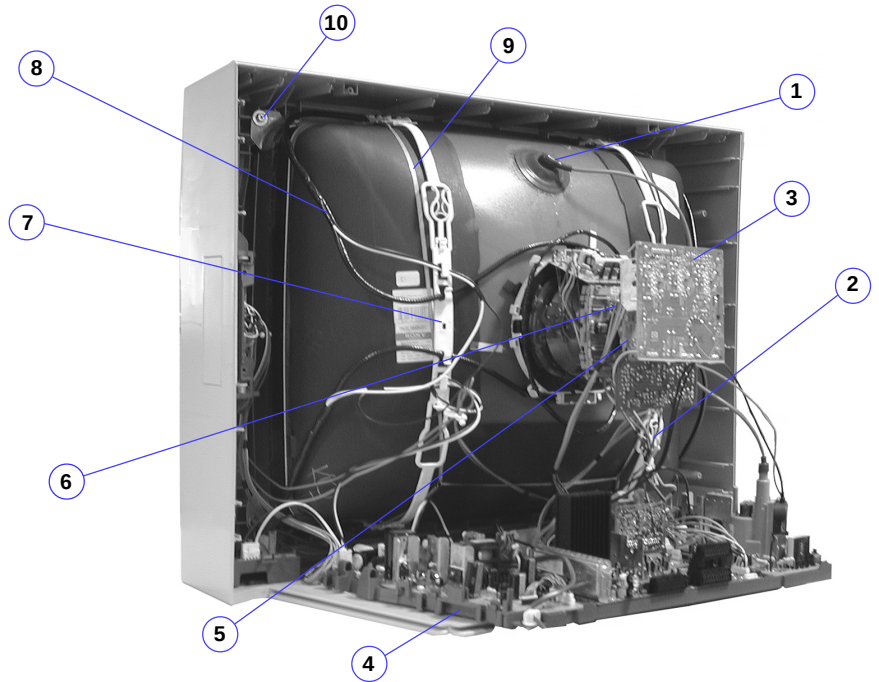
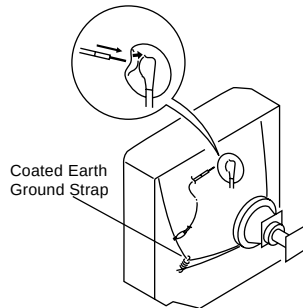
If the M Board needs to be removed for testing when the chassis is placed in its service position, it would be necessary to use an extender board and extension cable as indicated above.

The Extender board and extension cable are available as a service part by ordering the part number as indicated.

2-12. Picture Tube Removal

WARNING: BEFORE REMOVING THE ANODE CAP

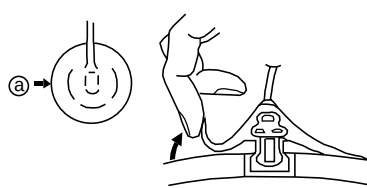
High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT **before** attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.



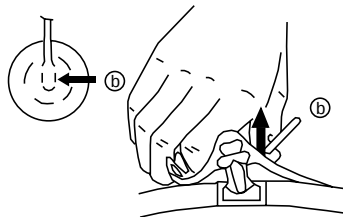
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
3. Remove the C Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the Neck assembly fixing screw and remove.
6. Loosen the Deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
8. Remove the Degaussing Coils.
9. Remove the CRT grounding strap and spring tentioners.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
[Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

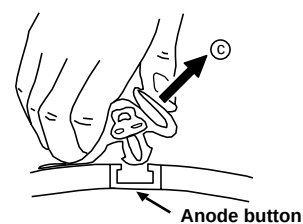
* REMOVING PROCEDURES.



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①



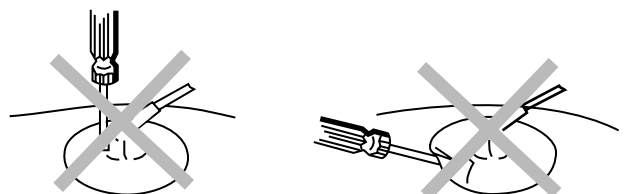
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②



- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ③

How to handle 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.
4. Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.

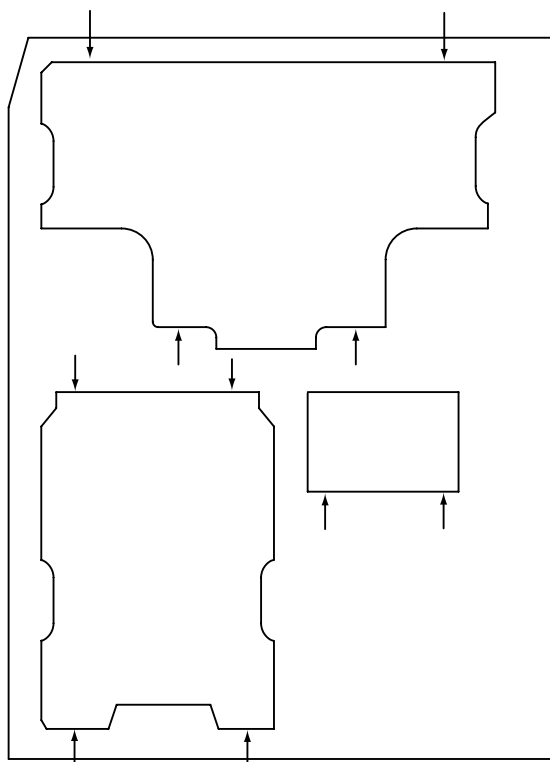


REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(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 the arrows.

Note : There are 3 plates fitted to the main bracket and secured by 3 gates.
Only remove the necessary plate to gain access to the printed wiring board.

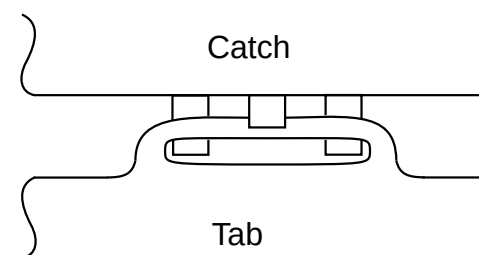


For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

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

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



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 adjustments in the following 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. Oscilloscope.
4. Digital multimeter.

3-1. Beam Landing

Preparation :

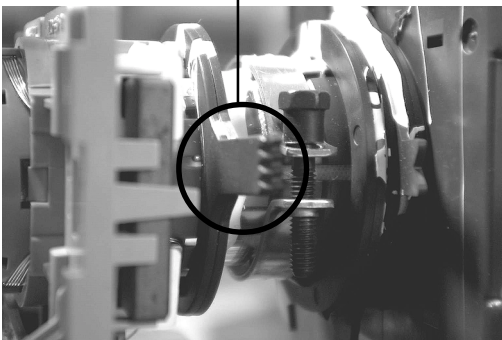
1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the TV set's power and degauss with a degausser.

(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. Loosen the deflection yoke fixing screw.
5. Move the deflection yoke as far forward as is possible.
6. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig 3-3]
7. Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1

Y-splitting axis correction magnet



Caution :

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

(2) Landing

Note : Before carrying out the following adjustments adjust the magnets as indicated below [See Fig.3-4].

1. Input a crosshatch signal from the signal generator.
2. Rough-adjust the focus and horizontal convergence.
3. Switch from the crosshatch pattern to an all-red pattern.
4. Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-5].
5. Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
6. Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position]
7. Position the deflection yoke between the two marks indicated above.
8. Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
9. When the position of the deflection yoke has been determined, fasten it with its fixing screw.
10. Switch the pattern generator to green then blue and confirm the purity.
11. If the beam does not land correctly in all the corners of the screen, use disk magnets to correct it. [Confirm the corner landing for green and blue]

Fig.3-2

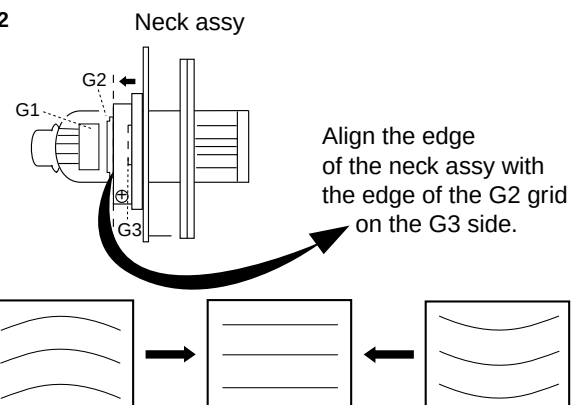


Fig.3-3

Fig.3-4

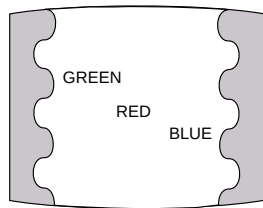
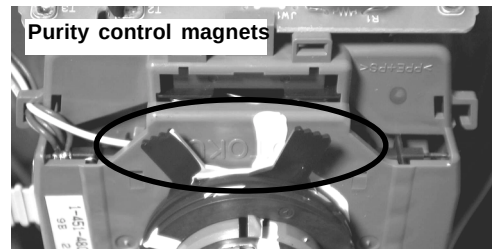
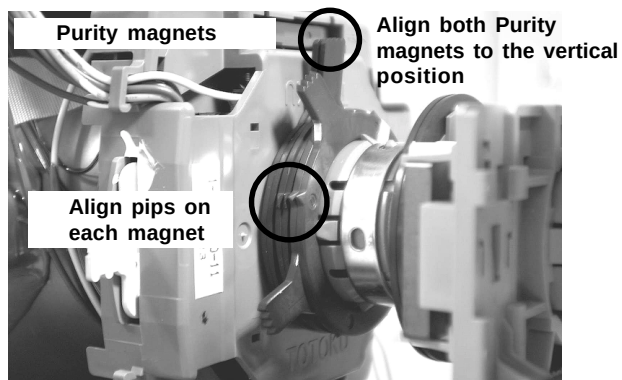
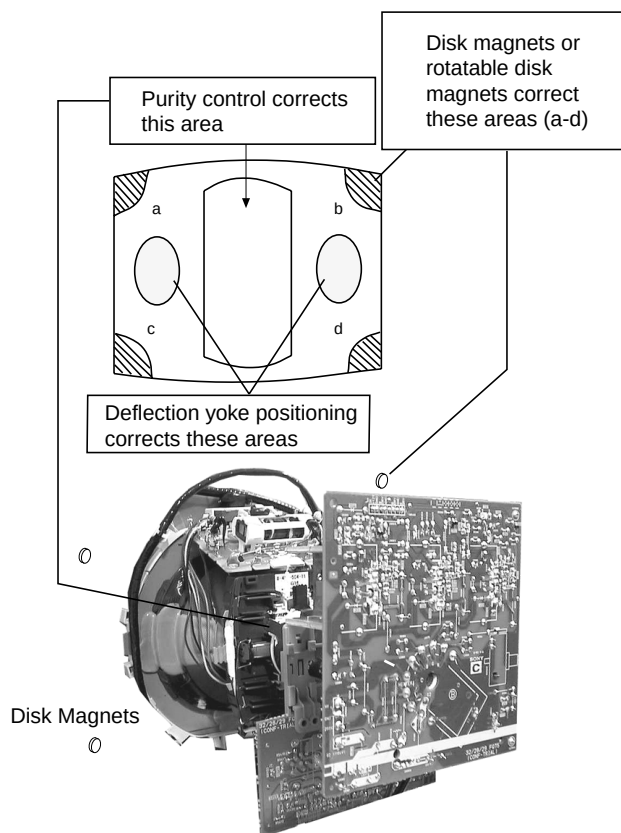


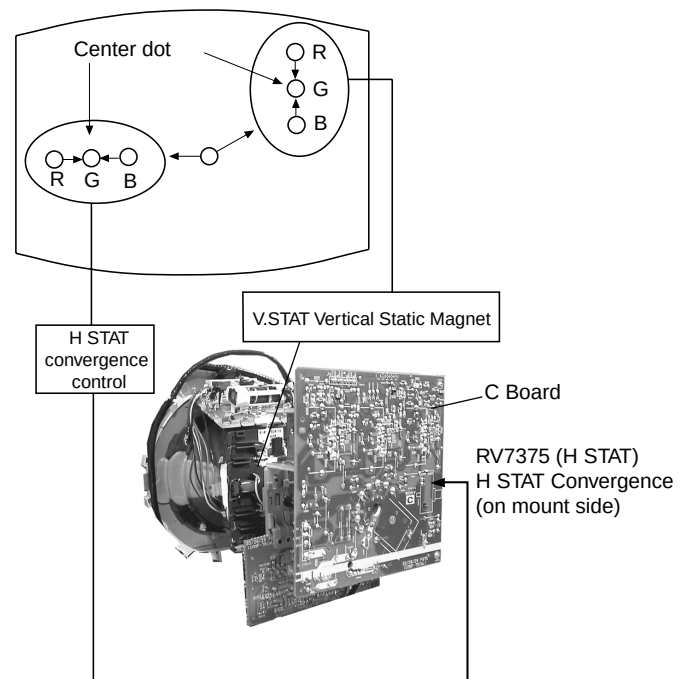
Fig.3-5



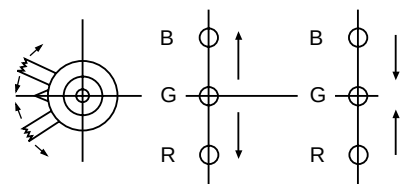
3-2. Convergence

(1) Screen centre convergence [Static convergence]

1. Input a dot pattern 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.



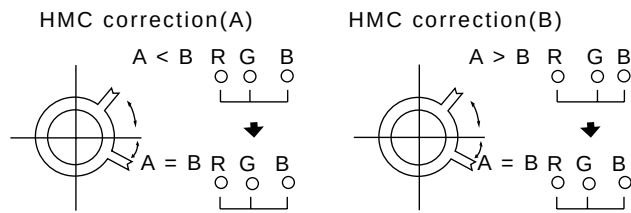
By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



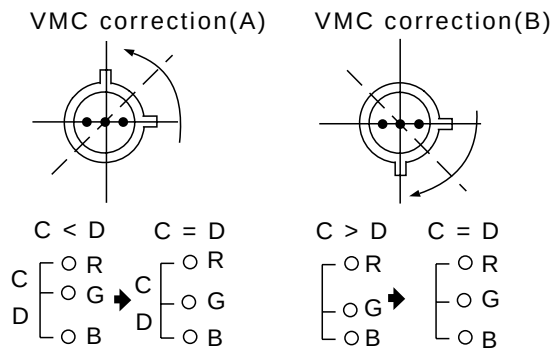
Note: Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

4. Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.

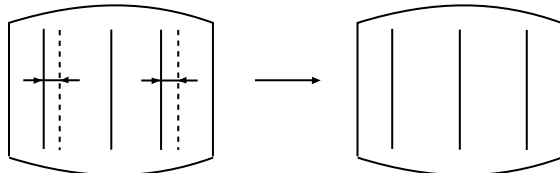
- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.



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

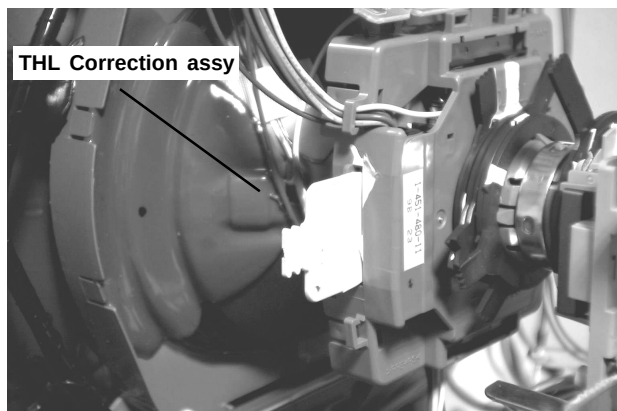


HAMP Adjustment

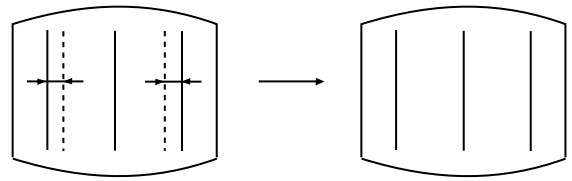


Adjust the HAMP using HAMPL and HAMPR registers in the Dynamic Convergence section of the service menu.

HTIL Adjustment



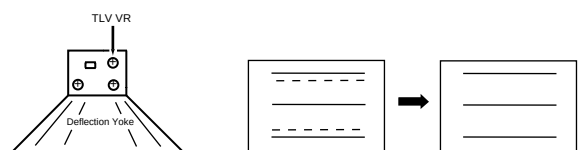
HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



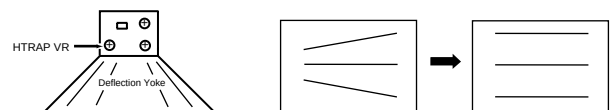
YCH Adjustment



TLV Adjustment

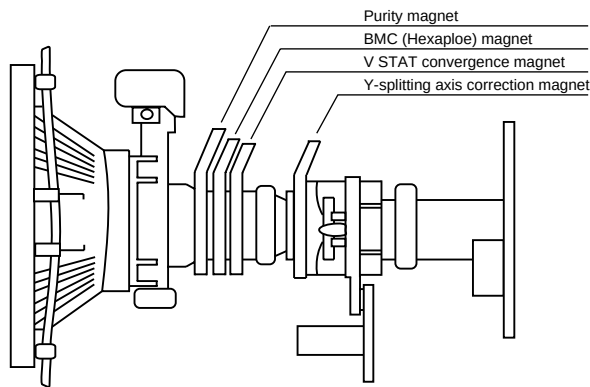


H-TRAP Adjustment

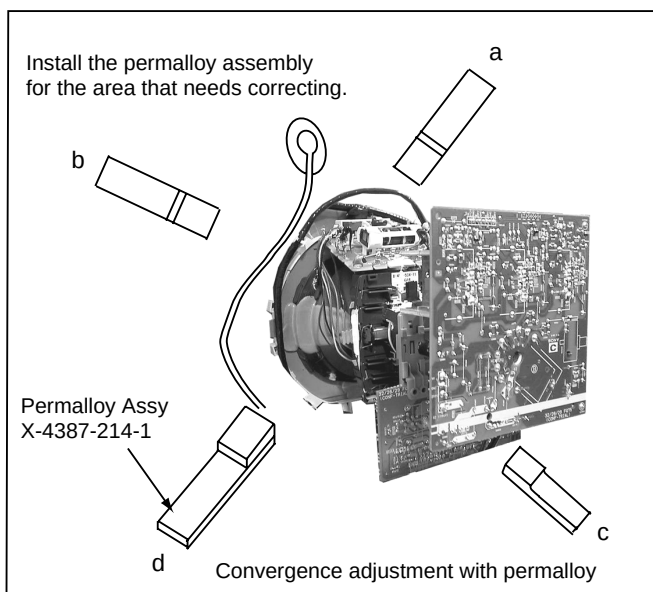
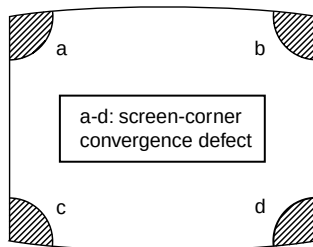


The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

Layout of each control

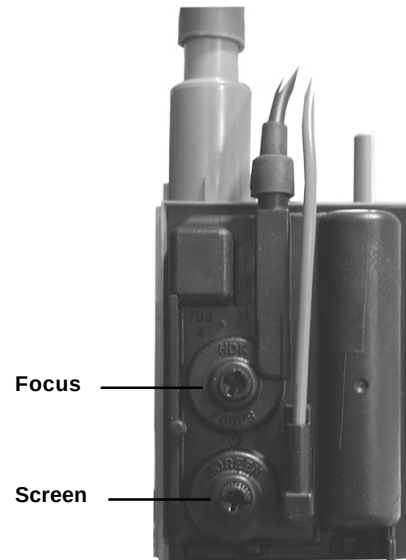


Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.



3-3. Focus Adjustment

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



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment [RV5376]

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 165V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the flyback transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Program the Remote Commander for operation in Service Mode. [See Page 20].
3. Enter into the 'Service Mode' by pressing 'VIDEO' button twice and 'MENU' on the Service Commander.
4. Select 'Service' from the on screen menu display and press 'Right Arrow'.
5. The 'Service' menu will appear on the screen.[See Page 21]
6. Set the 'Contrast' to MAX.
7. Set the 'R-Drive' to 50.
8. Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
9. Press the 'OK' button to write the data for each item.
10. Set the 'Contrast' to MIN.
11. Set the 'R-Cutoff' to 29.
12. Adjust the 'G-Cutoff', and the 'B-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
13. Press the 'OK' button to write the data for each item.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied remote Commander RM-934.

Programming the Remote Commander for Operation in Service Mode

1. Press the VCR/TV/DVD button until the TV LED lights.
2. Press and hold the yellow button for approx. 5 seconds until the TV LED flashes quickly.
3. Press 99999. All three LED's should light. The remote commander is now set to Service Mode.
4. To return the remote commander to normal operation mode repeat steps 1. and 2. then press 00000. All three LED's should light. The remote commander is now set to normal mode.



Setting the TV into Service Mode

1. Program the remote commander for operation in Service Mode as described above.
2. Turn on the TV main power switch.
3. Press the video standby button  on the remote commander twice. 'TT __' will appear in the upper right corner of the screen. Other status information will also be displayed.
4. Press 'MENU' on the remote commander to obtain the following menu on the screen.

```

Geometry
Service
Scanrate
DAC
Dyn. Conv.
PiP
Sound
IF adjust
Error Menu

AE6B v0.14 (Jun 2001)
Factory data FFh FFh
MSP Device : MSP3411G
    
```

5. Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
6. Press the right arrow button to enter into the required menu item.
7. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note :

- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

GEOMETRY

ABL TH	(0, 3)	0
ABL MODE	(0, 3)	0
P ABL	(0, 15)	15
V SIZE	(0, 63)	35
V POSITION	(0, 63)	33
V COMP	(0, 3)	1
V LIN	(0, 15)	7
S CORRECTION	(0, 15)	7
H SIZE	(0, 63)	44
PIN AMP	(0, 63)	32
UP CORNERPIN	(0, 63)	29
M PIN	(0, 3)	2
LO CORNERPIN	(0, 63)	29
TRAPEZIUM	(0, 15)	2
H POSITION	(0, 63)	40
AFC BOW	(0, 15)	8
AFC ANGLE	(0, 15)	9
LEFT BLK	(0, 63)	34
RIGHT BLK	(0, 63)	17
V ASPECT	(0, 63)	47
AKBTIM1	(0, 3)	2
AKBTIM2	(0, 1)	0
IKR		1
HNG		0
VNG		0

DYN. CONV.

RANGE	(0, 63)	63
YupL	(0, 1)	0
VAL	(0, 63)	30
YlowL	(0, 1)	0
VAL	(0, 63)	31
MBOWupL	(0, 1)	0
VAL	(0, 63)	31
MBOWlowL	(0, 1)	0
VAL	(0, 63)	32
HAMPL	(0, 1)	0
VAL	(0, 63)	37
YupR	(0, 1)	0
VAL	(0, 63)	30
YlowR	(0, 1)	0
VAL	(0, 63)	30
MBOWupR	(0, 1)	0
VAL	(0, 63)	32
MBOWlowR	(0, 1)	0
VAL	(0, 63)	32
HAMPR	(0, 1)	0
VAL	(0, 63)	36
UP Y	(0, 1)	0
VAL	(0, 63)	31
LOW Y	(0, 1)	0
VAL	(0, 63)	33
H STAT	(0, 1)	0
VAL	(0, 63)	33
UP CORR	(0, 1)	0
VAL	(0, 63)	34
LOW CORR	(0, 1)	0
VAL	(0, 63)	19

IF ADJUST

Automute	1
Audio Gain	0
L Gating	0

SERVICE

SUB COL	(0, 63)	Adj
SUB HUE	(0, 63)	31
SUB SHARP	(0, 63)	30
SUB BRIGHT	(0, 63)	13
SUB CONT	(0, 15)	12
R-DRIVE	(0, 63)	50
G-DRIVE	(0, 63)	Adj
B-DRIVE	(0, 63)	Adj
R CUTOFF	(0, 63)	28
G CUTOFF	(0, 63)	24
B CUTOFF	(0, 63)	46
Br TXT	(0, 15)	7
Br OSD	(0, 15)	10

DAC

<i>CONFIG</i>		<i>00000000</i>
MPIN CONT	(0, 255)	96
HLIN	(0, 255)	83
HTRAP	(0, 255)	127
ROT. COIL	(0, 255)	130
PHOCUS PH	(0, 255)	90

SOUND

M-N	(0, 511)	200
M-D	(-128, -1)	-20
M-S	(+0, +127)	+20
S-M	(+0, +127)	+10
D-M	(-128, -1)	-10
N-M	(0, 1023)	496
BBE	(+0, +68)	+28
B1	(-96, +96)	+0
B2	(-96, +96)	+0
B3	(-96, +96)	+0
B4	(-96, +96)	+0
B5	(-96, +96)	+0
SW L	(-128, +0)	+0
SW F	(+5, +40)	+30
NICAM C AD		10001
NICAM Error	(0, 2047)	0
Stereo	(-128, +127)	+0

Status 0000000110

ERROR MENU

E02	OCP	(0, 255)	0
E03	OVP	(0, 255)	0
E04	VSUNC	(0, 255)	0
E05	IKR	(0, 255)	0
E06	IIC	(0, 255)	0
E07	NVM	(0, 255)	0
E08	HPROT	(0, 255)	0
E09	TUNER	(0, 255)	0
E10	SOUNDP	(0, 255)	0
E11	-	(0, 255)	0
E12	SCANRATE	(0, 255)	0
E13	DAC	(0, 255)	0
E14	BACKEND	(0, 255)	0
E15	DYN CON	(0, 255)	0
E16	PIP	(0, 255)	0

WORKING TIME

HOURS	14
MINUTES	7

Sub Brightness Adjustment

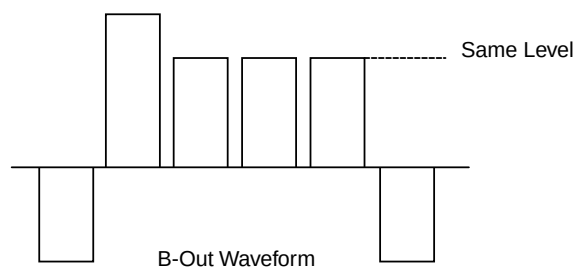
1. Input a Monoscope pattern.
2. Program the Remote Commander for operation in Service Mode. [See Page 20].
3. Press 'VIDEO' 'VIDEO' 13 on the Remote Commander.
4. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

Sub Contrast Adjustment

1. Input a video signal that contains a small 100% white area on a black background.
2. Connect an digital voltmeter to Pin 10 of J7378 [C Board].
3. Program the Remote Commander for operation in Service Mode. [See Page 20].
4. Adjust the Sub-Contrast [Using 'VIDEO' 'VIDEO' '11'] to obtain a voltage of 105 +/- 5V.

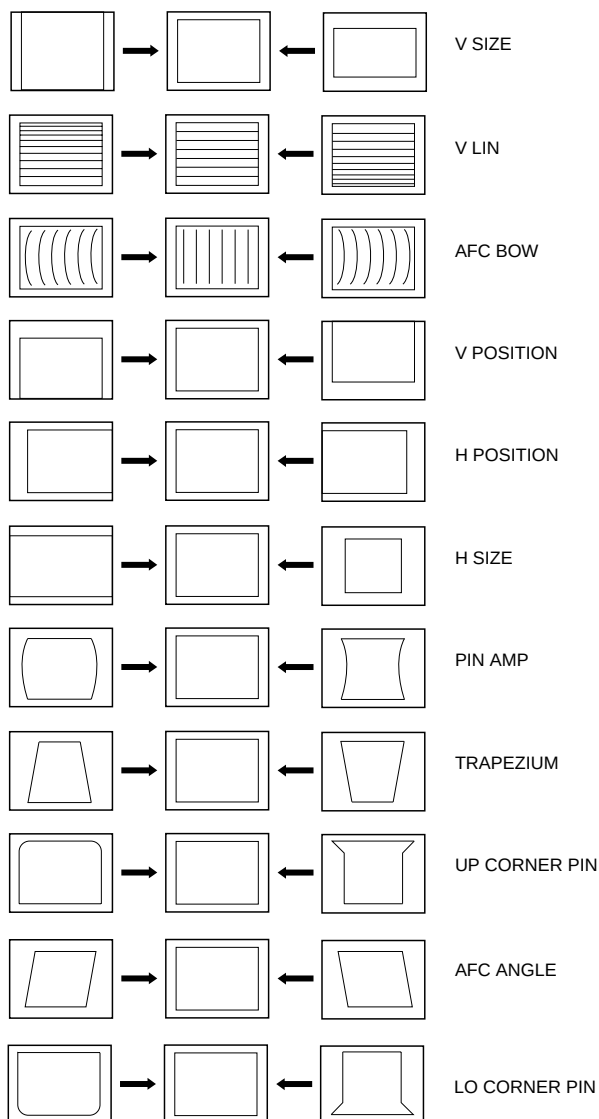
Sub Colour Adjustment

1. Receive a PAL colour bar signal.
2. Connect an oscilloscope to Pin 6 of CN7001 [A Board].
3. Program the Remote Commander for operation in Service Mode. [See Page 20].
4. Adjust the 'Sub Colour' [Using 'VIDEO' 'VIDEO' '12'] so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.



Deflection System Adjustment

1. Program the Remote Commander for operation in Service Mode. [See Page 20] and enter into the 'Geometry' service menu.
2. Select and adjust each item in order to obtain the optimum image.



GEOMETRY

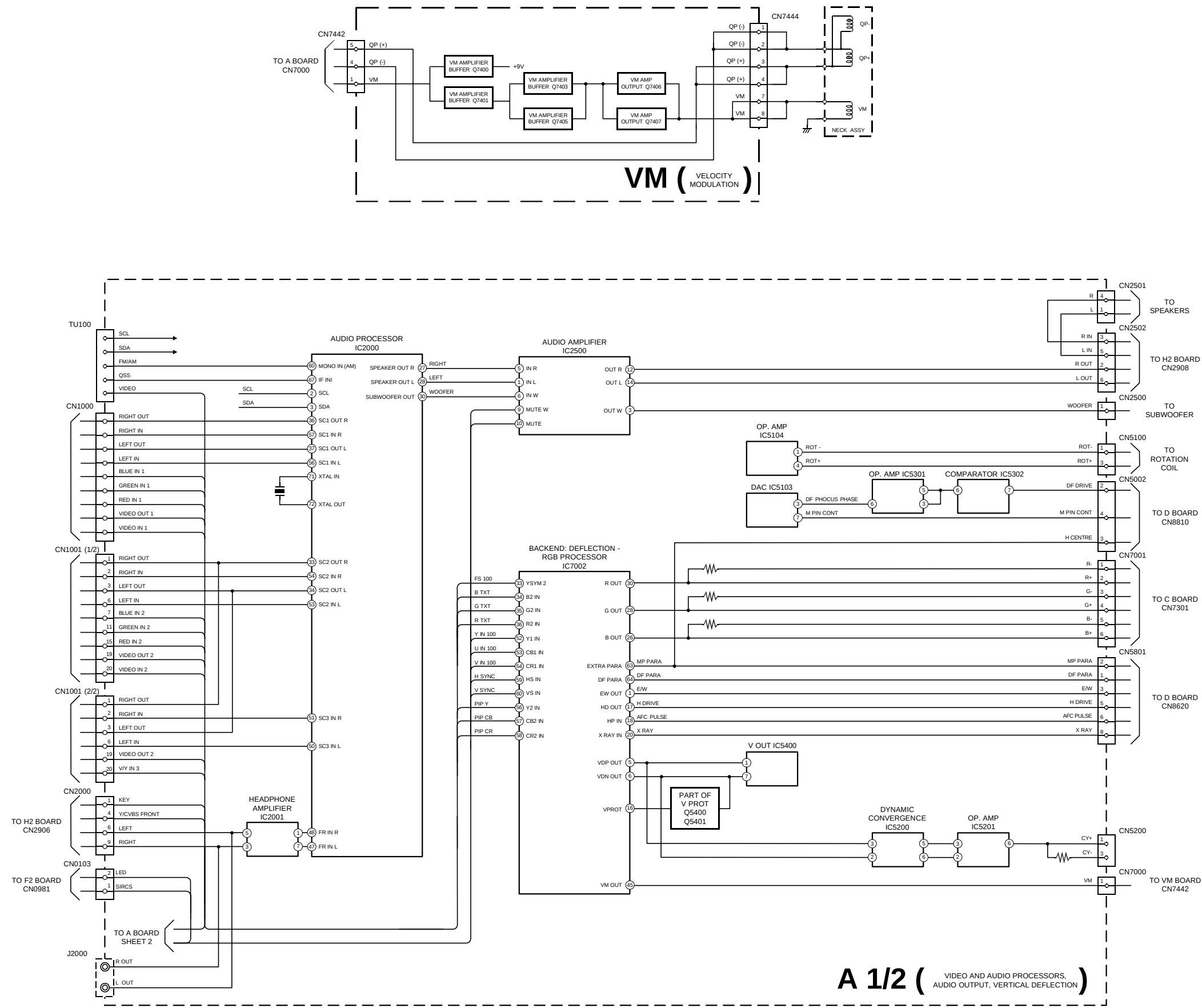
ABL TH	(0, 3)	0
ABL MODE	(0, 3)	0
P ABL	(0, 15)	15
V SIZE	(0, 63)	35
V POSITION	(0, 63)	33
V COMP	(0, 3)	1
V LIN	(0, 15)	7
S CORRECTION	(0, 15)	7
H SIZE	(0, 63)	44
PIN AMP	(0, 63)	32
UP CORNERPIN	(0, 63)	29
M PIN	(0, 3)	2
LO CORNERPIN	(0, 63)	29
TRAPEZIUM	(0, 15)	2
H POSITION	(0, 63)	40
AFC BOW	(0, 15)	8
AFC ANGLE	(0, 15)	9
LEFT BLK	(0, 63)	34
RIGHT BLK	(0, 63)	17
V ASPECT	(0, 63)	47
AKBTIM1	(0, 3)	2
AKBTIM2	(0, 1)	0
IKR		1
HNG		0
VNG		0

4-3. TEST MODE 2:

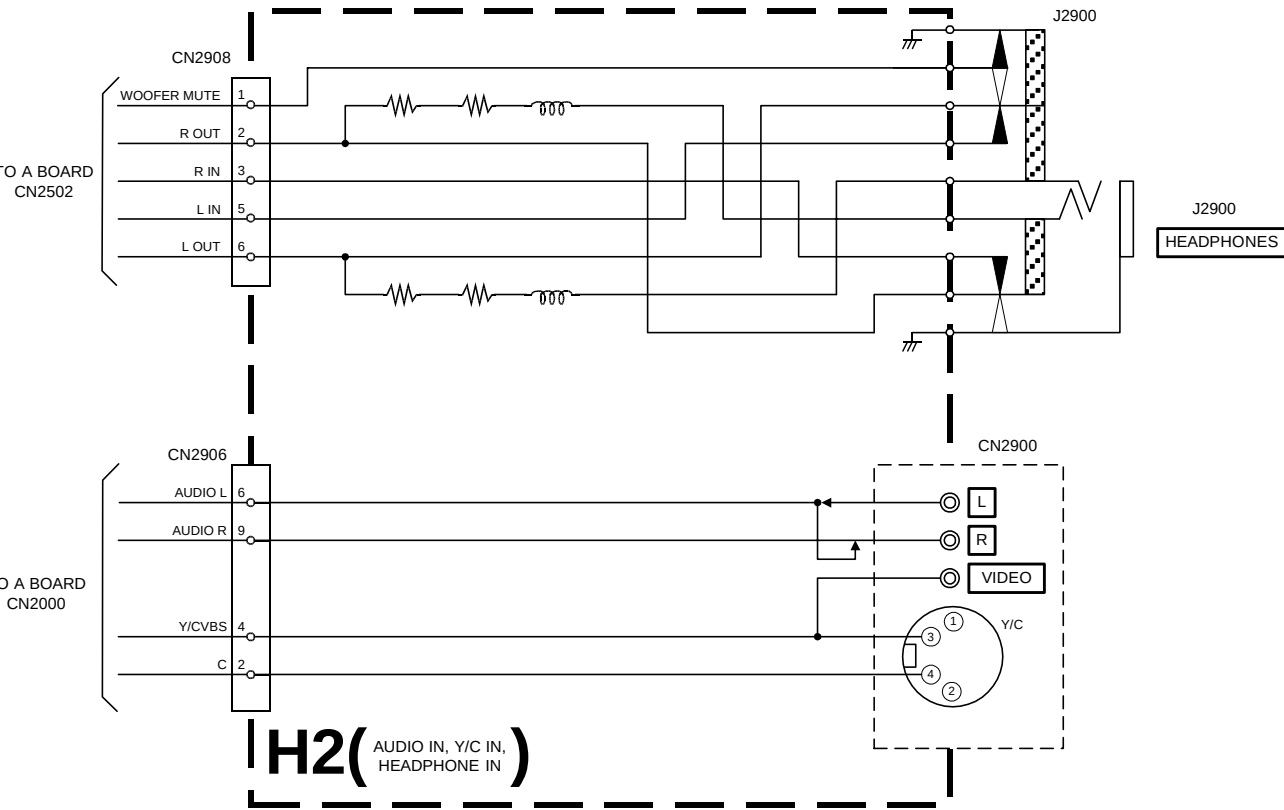
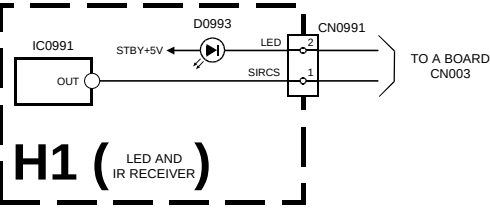
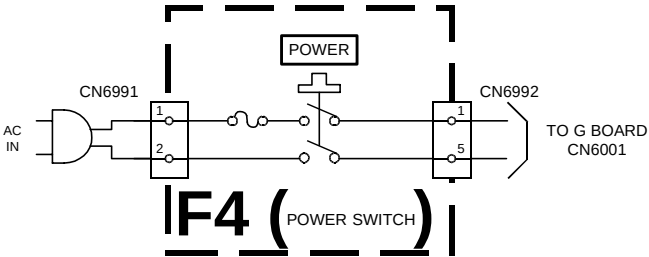
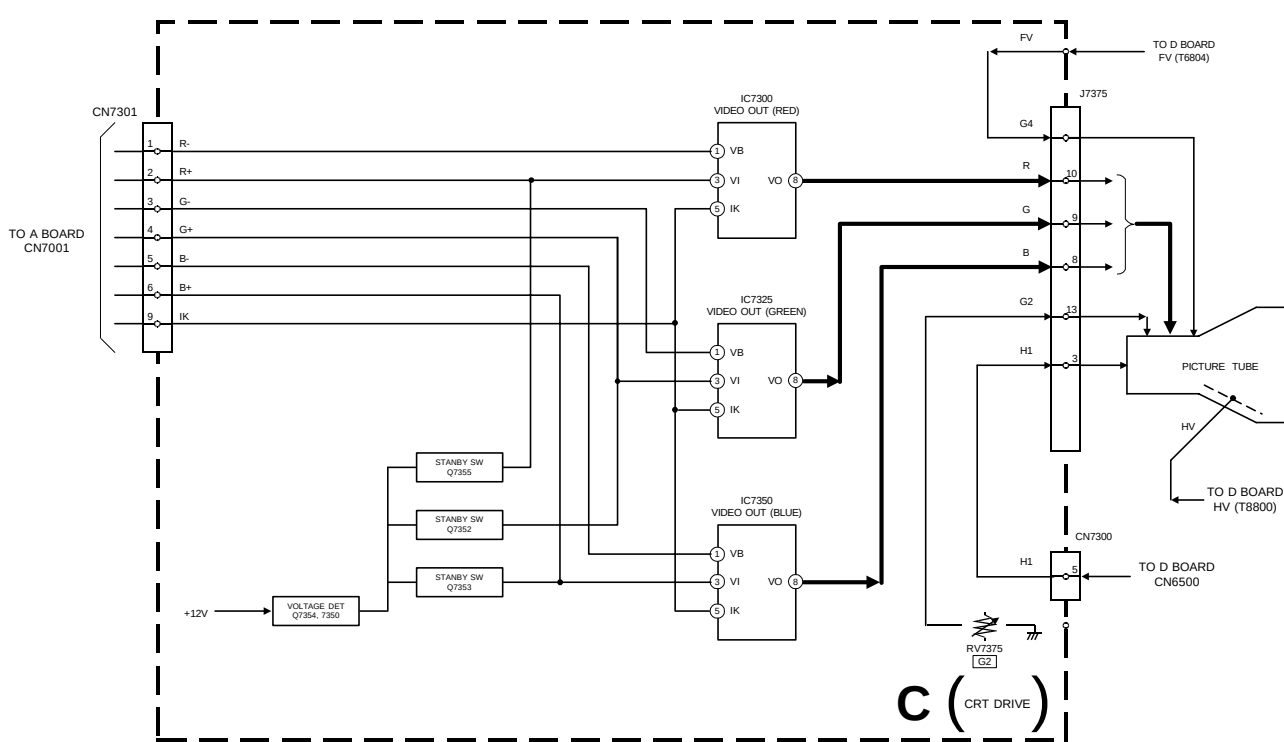
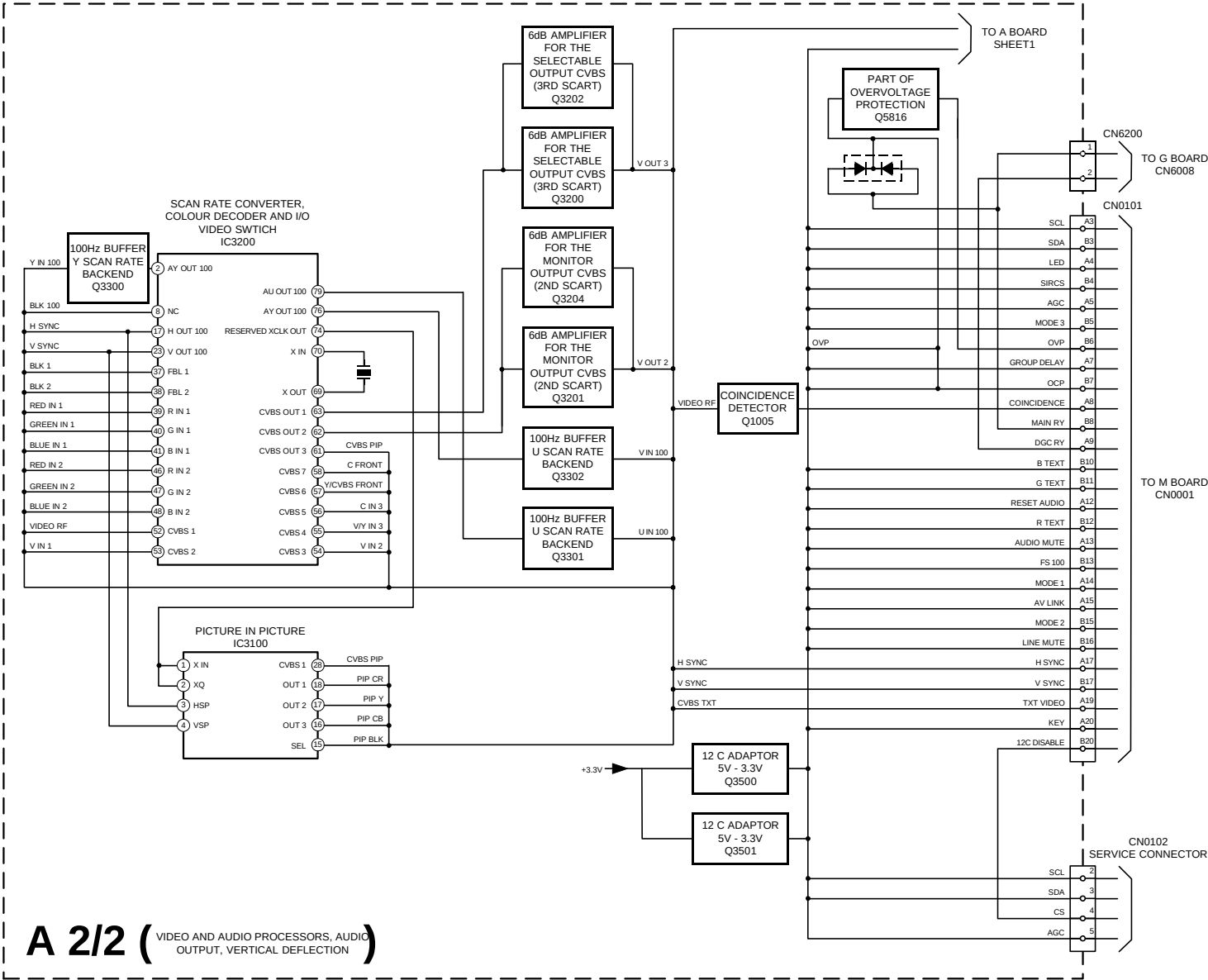
Test Mode 2 is available by rogramming the Remote Commander for operation in Service Mode [As shown on Page 20] then pressing the 'VIDEO' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 00, 10, 20 ... twice or switch the TV set into Stand-by mode. In 'TT Menu' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

00	'TT' mode off
01	Picture maximum
02	Picture minimum
03	Set speaker/headphone Volume to 35%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode
08	Shipping Condition
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub Brightness adjustment
14	Text H Position adjustment
15	Rotation Coil Test
16	Picture level 50%
19	Factory Mode Enable/Disable
21	Destination ADEKR
22	Destination BL
23	Destination ADEKR
24	Destination U
25	Destination ADEKR
26	Destination BL
27	Destination ADEKR
28	Destination ADEKR
31	Auto Shutoff Enable/Disable
36	Velocity Modulation (VM) OFF/ON test
41	Re-initialise NVM
43	Select Dual A sound
44	Select Dual B sound
45	Select Mono sound
46	Select Stereo sound
48	Set NVM as non virgin
49	Set NVM as virgin
53	FM Overmodulation Enable/Disable
55	Tuner selection (SONY/ALPS)
59	Select Model 3 Scarts + PIP or 2 Scarts
68	Enable/Disable X26 countermeasure (N problem)
73	Enable Zweiton D/K2 system (6.5/6.74)
74	Enable Zweiton D/K3 system (6.5/5.74)
78	Balance full right
79	Balance full left
87	Local keys test
99	Display Error and Working Time menu

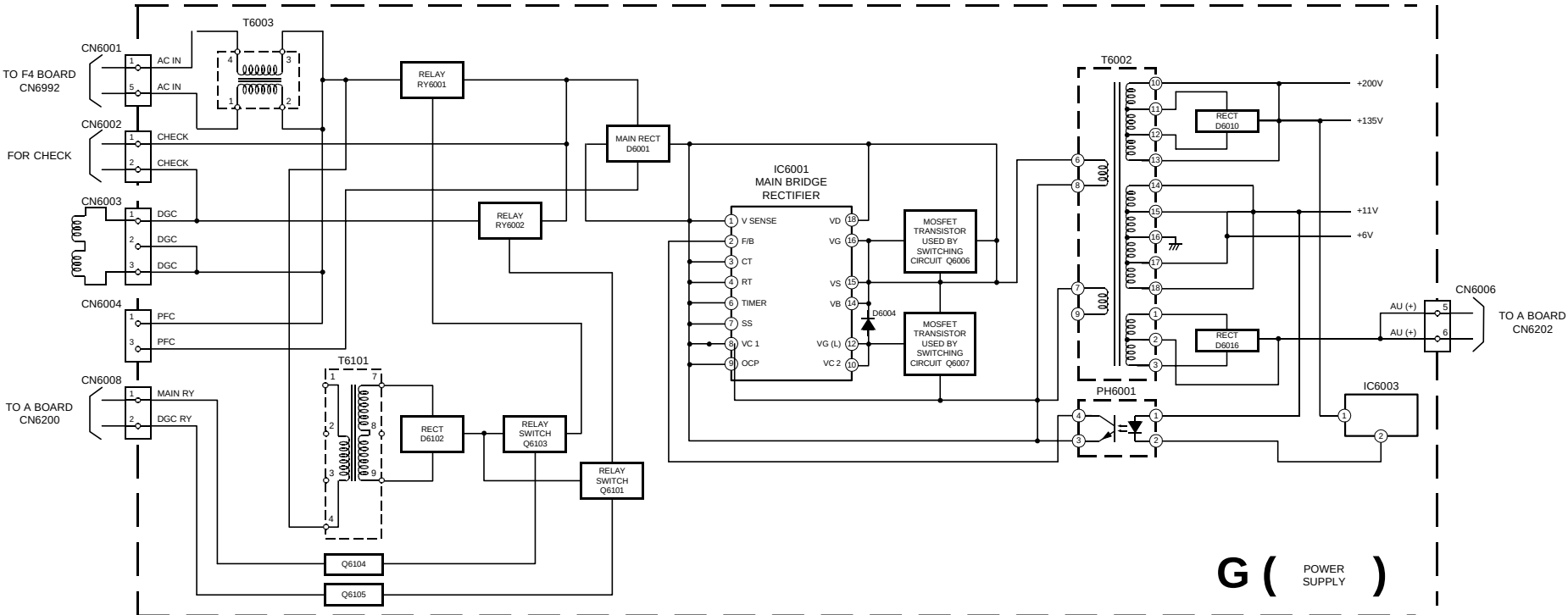
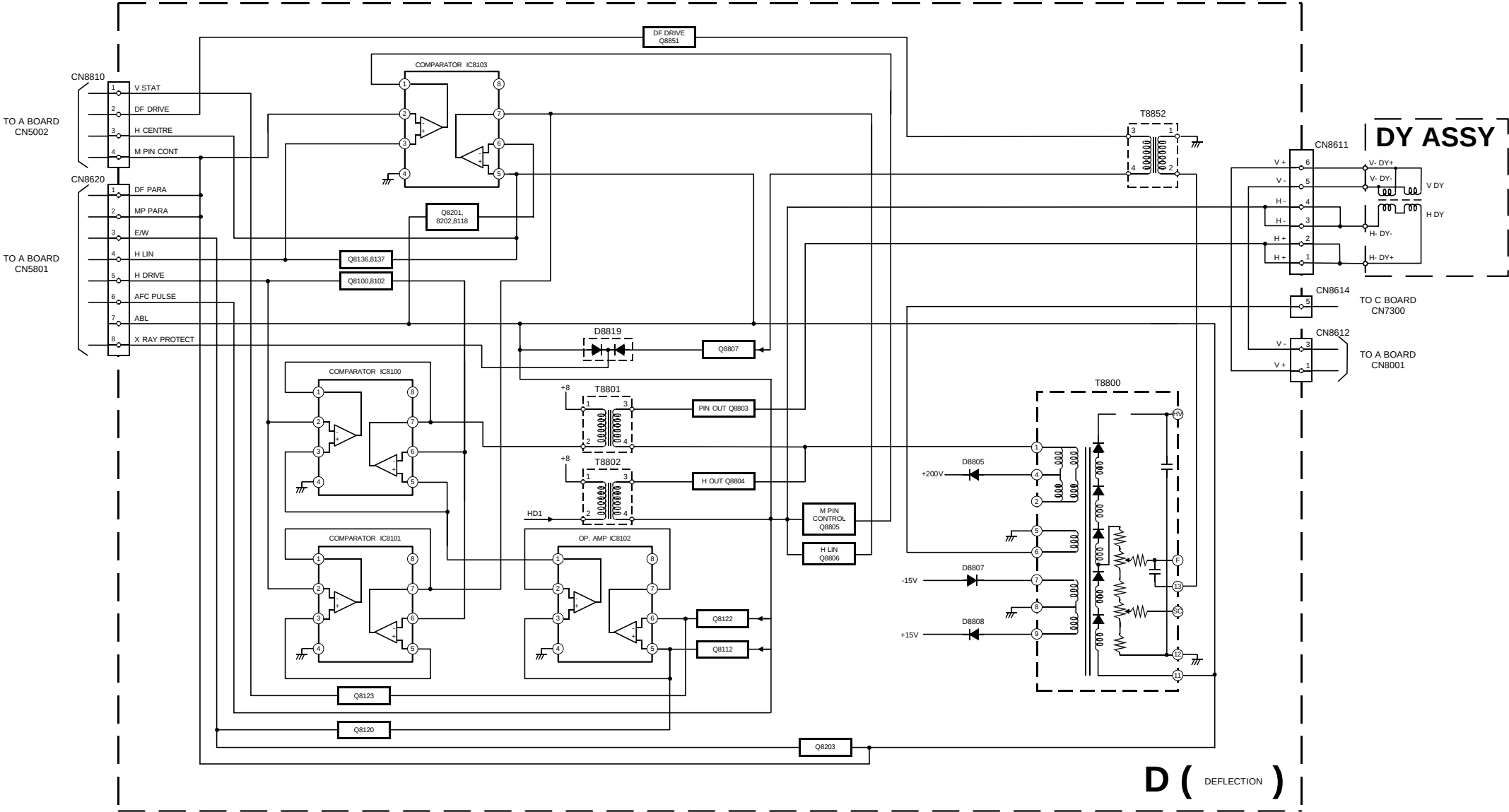
5-1. BLOCK DIAGRAMS (1)



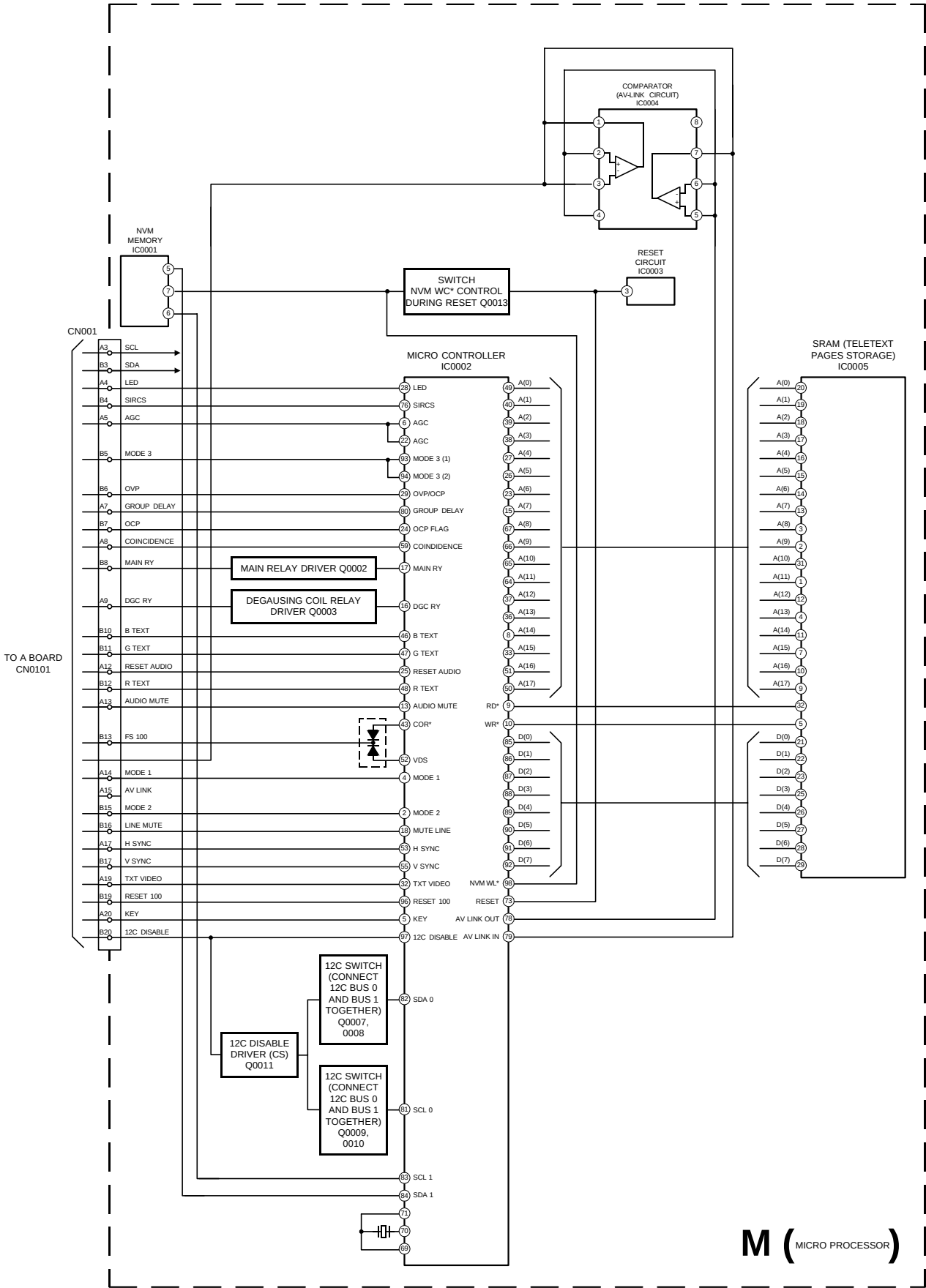
5-1. BLOCK DIAGRAMS (2)



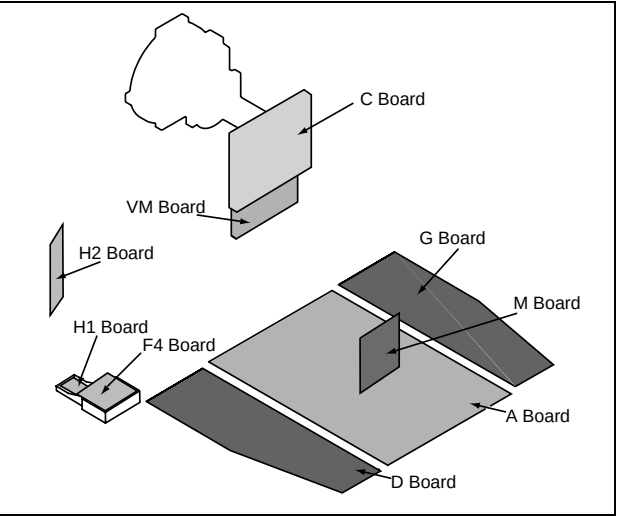
5-1. BLOCK DIAGRAMS (3)



5-1. BLOCK DIAGRAMS (4)



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note :**
- All capacitors are in μF unless otherwise noted.
 - $\text{pF} : \mu\text{F}$ 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 mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerances.

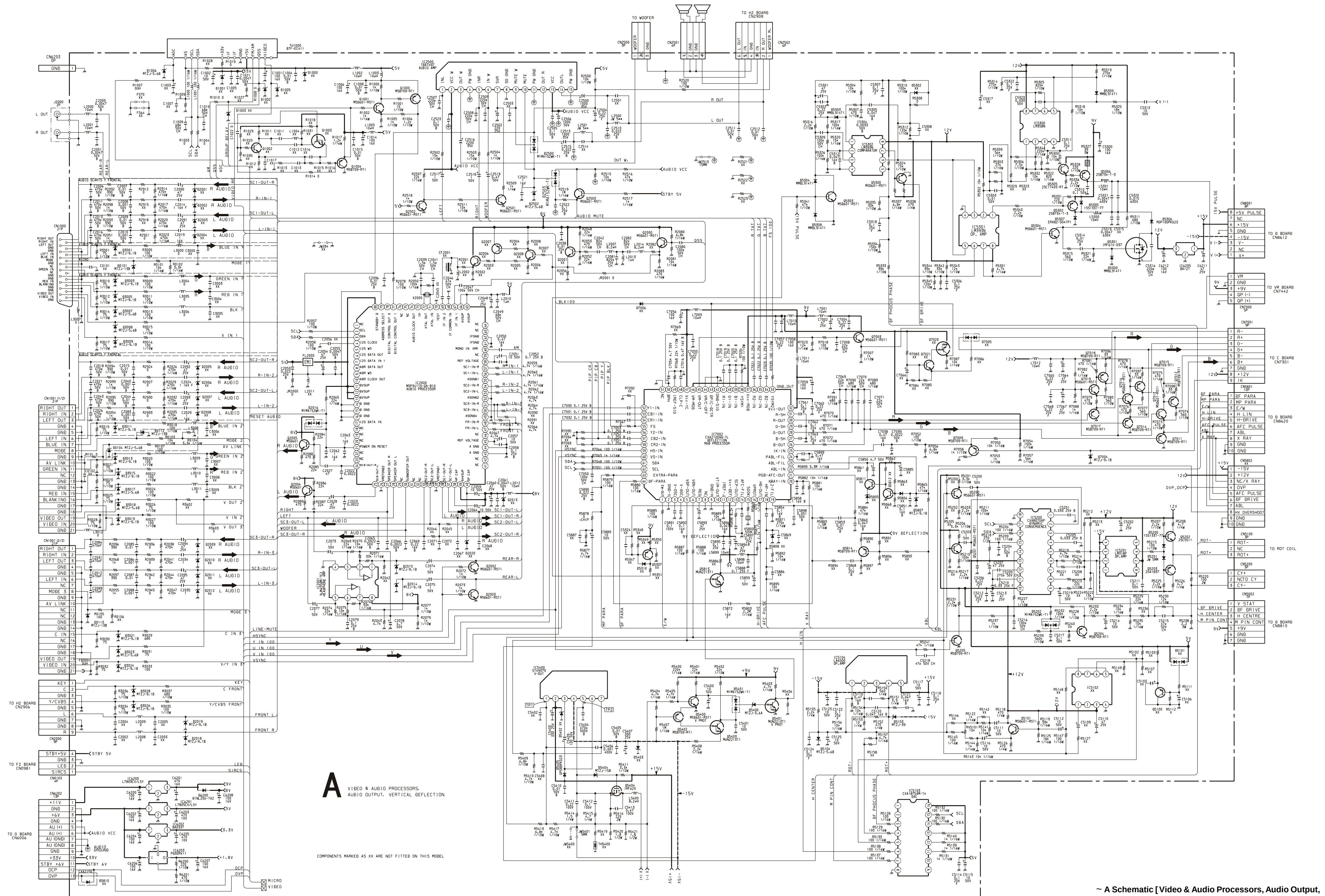
-  : B - bus.
-  : RF signal path.
-  : earth - ground.
-  : earth - chassis.

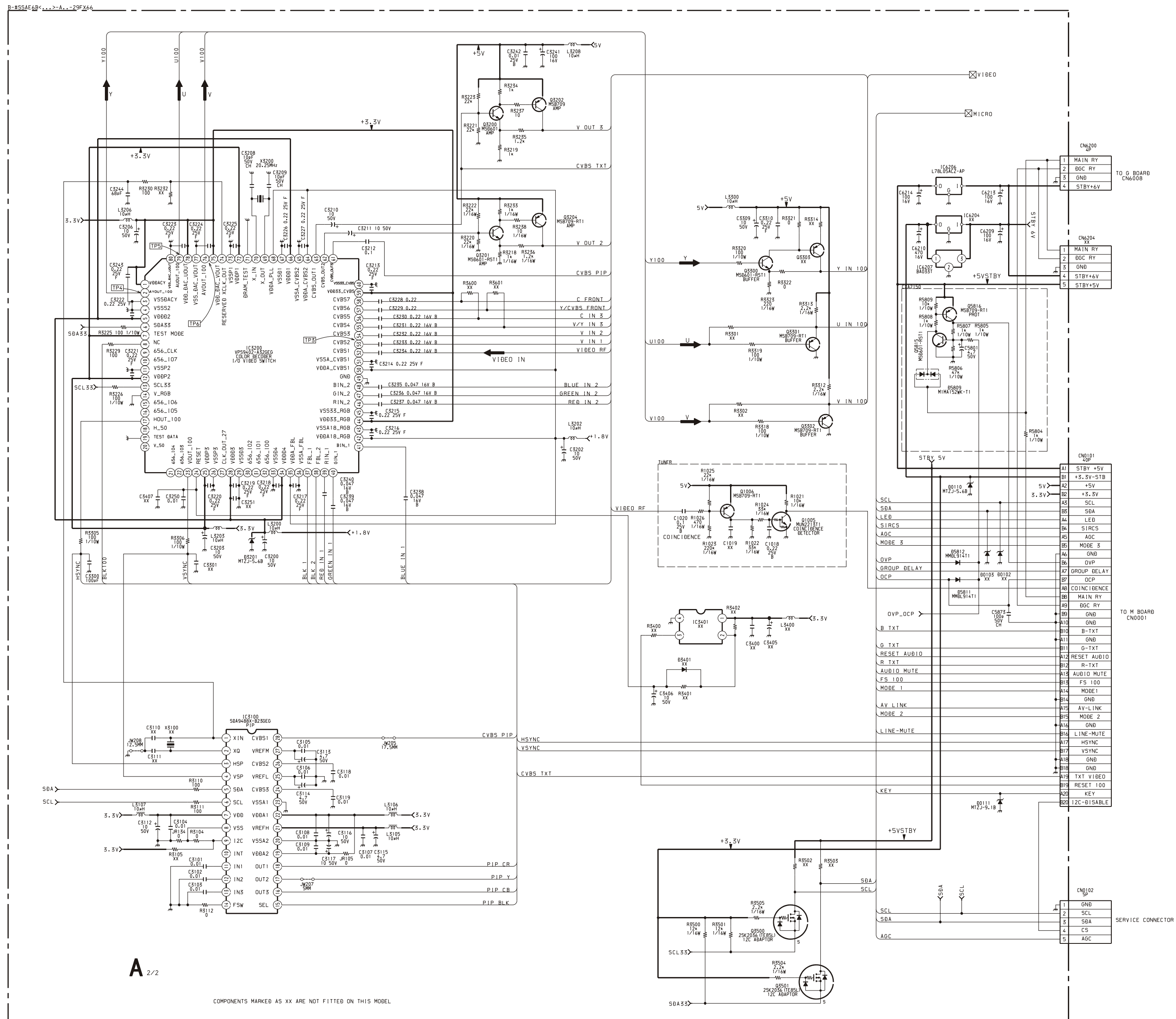
Reference Information

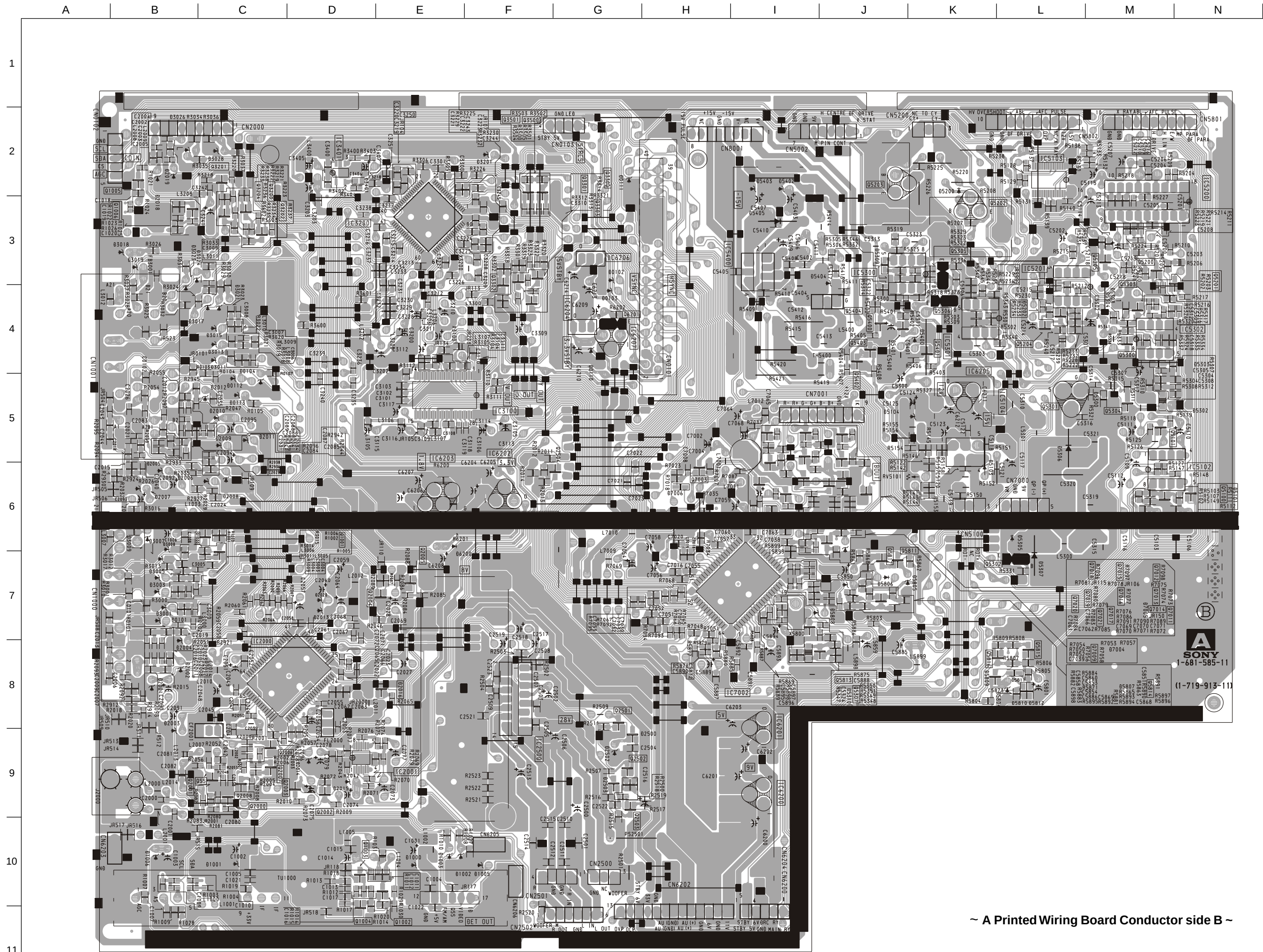
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR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

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

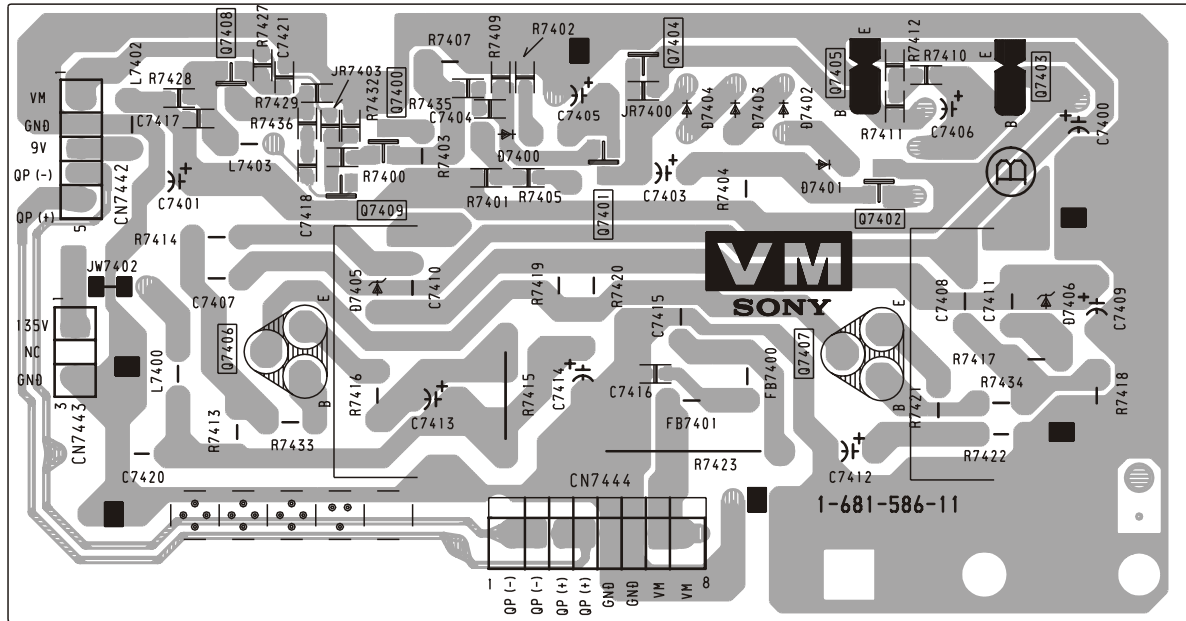
Note : Les composants identifiés par une trame et par une marque  sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.



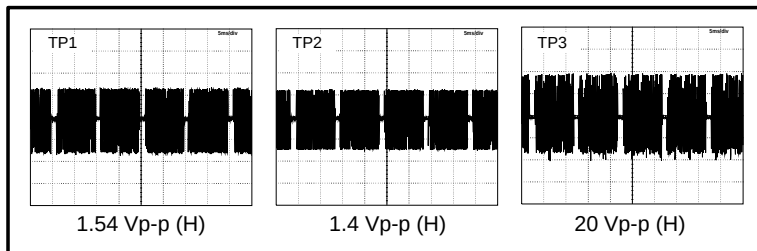




~ VM Printed Wiring Board Conductor side ~



~ VM Board Waveforms ~



~ VM Board Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)
Q7400	5.0	5.7	8.7
Q7401	0.9	1.5	4.1
Q7402	5.5	6.1	8.9
Q7403	5.1	5.5	8.9
Q7404	4.7	4.1	0
Q7405	5.1	4.7	0
Q7406	134	133.8	68
Q7407	1.1	1.4	68
Q7408	6.3	5.6	2.5
Q7409	5.7	6.3	0.9

~ A Board Location Table (A Side) ~

DIODE		D2014	K - 9	D3005	M - 7	D3017	M - 4	D3028	M - 2	D5306	C - 5	D7004	F - 7	IC5301	D - 4	IC6206	H - 3
D0101	M - 7	D2015	K - 9	D3007	M - 7	D3018	N - 3	D3201	J - 2	D5307	C - 6	D5809	K - 8	IC5302	B - 4	IC6207	H - 4
D0104	L - 4	D2018	M - 2	D3008	M - 7	D3019	N - 3	D5103	D - 6	D5400	E - 4	IC		IC5400	G - 4	TRANSISTOR	
D0110	I - 4	D2019	M - 2	D3009	N - 7	D3021	M - 4	D5104	E - 5	D5404	F - 3	IC5104	D - 6	IC6201	G - 10	Q5202	E - 2
D0111	H - 2	D2502	H - 9	D3011	M - 4	D3023	M - 4	D5200	D - 2	D5405	F - 3	IC5200	B - 3	IC6202	I - 6	Q5301	C - 5
D0112	M - 4	D3001	M - 7	D3013	M - 4	D3024	M - 4	D5201	E - 2	D5807	F - 7	IC5201	C - 4	IC6203	J - 6	Q5306	E - 4
D0113	M - 5	D3003	M - 7	D3015	M - 4	D3026	M - 2	D5305	D - 6	D6200	J - 6	IC5300	E - 4	IC6205	D - 5	Q5404	F - 4
D1006	M - 10																

~ A Board Location Table (B Side) ~

DIODE	D2503	G - 9	D3024	B - 3	D5309	J - 3	IC5103	L - 3	TRANSISTOR	Q3201	C - 2	Q5300	M - 4	Q7003	H - 6
D0101	B - 7	D3001	B - 7	D3026	B - 2	D5400	K - 4	IC5104	K - 6	Q1000	C - 6	Q5301	L - 5	Q7009	K - 6
D0104	C - 5	D3003	B - 7	D3028	C - 2	D5401	J - 4	IC5200	M - 3	Q1001	D - 6	Q5302	K - 7	Q7011	J - 6
D0110	G - 4	D3005	B - 7	D3201	F - 2	D5404	J - 3	IC5201	L - 4	Q1004	D - 10	Q5303	M - 4	Q7012	J - 5
D0111	G - 2	D3007	B - 6	D5103	L - 6	D5405	I - 3	IC5300	J - 3	Q1005	B - 2	Q3301	F - 3	Q5304	M - 5
D0112	C - 5	D3008	B - 6	D5104	J - 5	D5809	K - 8	IC5301	K - 4	Q1006	B - 3	Q3302	F - 3	Q5305	K - 3
D0113	C - 5	D3009	B - 6	D5200	K - 2	D5811	L - 8	IC5302	M - 4	Q2000	C - 9	Q3500	F - 3	Q5306	K - 4
D1006	B - 10	D3011	C - 4	D5202	L - 4	D5812	L - 8	IC5400	I - 3	Q2002	D - 9	Q3501	F - 3	Q5400	J - 4
D2014	C - 9	D3013	C - 4	D5300	L - 5	D6200	F - 7	IC6200	I - 9	Q2003	D - 9	Q5101	M - 5	Q5401	K - 4
D2015	D - 9	D3015	C - 4	D5303	N - 4	IC		IC6201	I - 8	Q2004	E - 7	Q5200	M - 4	Q5402	J - 5
D2016	E - 8	D3017	B - 4	D5304	M - 4	IC2000	C - 8	IC6202	F - 6	Q2005	E - 7	Q5201	N - 3	Q5403	J - 4
D2018	B - 2	D3018	B - 3	D5305	L - 6	IC2001	D - 9	IC6203	E - 6	Q2501	G - 8	Q5202	K - 3	Q5404	J - 4
D2019	B - 2	D3019	B - 3	D5306	L - 5	IC2500	F - 8	IC6205	K - 5	Q2502	G - 9	Q5203	J - 2	Q5813	J - 8
D2500	G - 9	D3021	C - 4	D5307	L - 7	IC3100	E - 5	IC6206	G - 3	Q2503	G - 9	Q5204	L - 4	Q5815	L - 8
D2502	G - 9	D3023	B - 3	D5308	M - 4	IC3200	E - 3	IC6207	G - 4	Q3200	C - 3	Q5205	M - 3	Q5816	L - 8

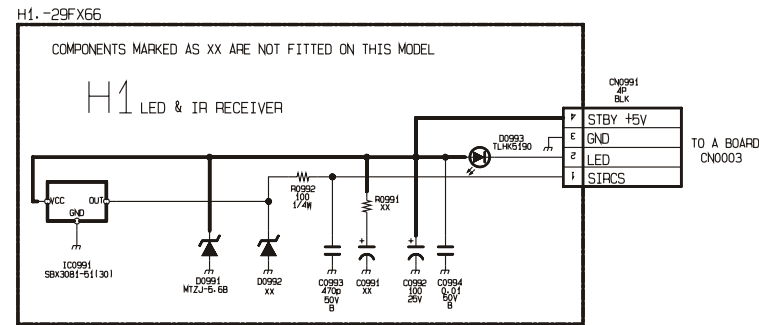
~ A Board Semiconductor Voltage Table ~

Ref	(s)	(g)	(d)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q3500	2.7	3.3	3.9	Q2002	0	0	4	Q3204	5	4.4	3.4	Q5205	1.9	1.2	0	Q5813	0	7.9	0	Q7015	11.6	10.9	8.8
Q3501	2.7	3.3	4	Q2003	0	0	4	Q3300	0.7	1.3	5	Q5300	0	0.4	2.2	Q5814	0	0	0	Q7016	6	6.6	10.9
Q5301	0	5.1	51.2	Q2004	3.3	3.9	8.3	Q3301	1.9	1.2	0	Q5301	5.1	0	51.2	Q5815	0	0	5	Q7017	2.7	2	0
Q5404	0	0	0.5	Q2005	3.3	3.9	8.3	Q3302	1.9	1.2	0	Q5302	8.9	5.7	0	Q5816	5	5	0	Q7018	11.6	10.9	8.6
Ref	(e)	(b)	(c)	Q2501	0	0	15.2	Q3500	3.3	2.7	3.9	Q5304	0	0.4	5.6	Q7003	5.6	6.2	8.8	Q7019	6	6.6	10.9
Q1001	3.2	3.9	8.3	Q2502	0	0.7	0	Q3501	3.3	2.7	4	Q3400	0	0	0.1	Q7009	3.2	7	0.1	Q7020	8.9	8.9	0
Q1004	1.9	1.3	0	Q2503	0.6	0.6	0.5	Q5101	0	0.4	6.4	Q5401	0	0	7.9	Q7011	2.5	1.9	0	Q7021	2.7	2.7	8.9
Q1005	0	0.5	5	Q3200	1.9	2.5	4.4	Q5201	2.8	3.4	7.9	Q5402	0	0	-11.3	Q7012	11.6	10.9	8.7				
Q1006	5	4.7	1	Q3201	1.9	2.5	4.4	Q5202	0.2	0.8	11.7	Q5403	-13.5	-11.2	-8.3	Q7013	6	6.6	10.9				
Q2000	4.2	4.8	8.3	Q3202	5	4.4	3.4	Q5203	0.2	0.8	11.7	Q5404	0	0	0.5	Q7014	2.5	1.8	0				

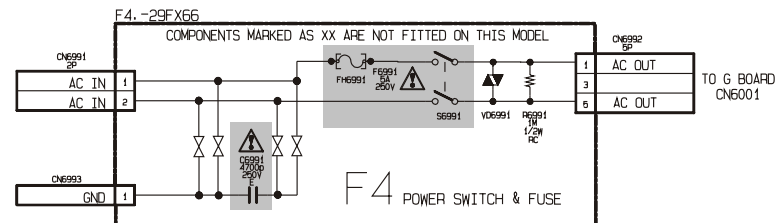
~ A Board IC Voltage Table ~

IC Voltage Table														
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC3100	1	1.3	IC5103	6	1.8	IC5201	5	9.3	IC5400	6	13.7	IC7002	32	8.9
	2	1.7		7	2		6	0.5		7	1.4		33	0
	3	2.6		8	0		7	12.1		1	3.6		34	4.7
	4	0		9	3.1		8	-14.1		2	0		35	4.7
	5	2.5		10	3	IC5300	1	6		3	4.4		36	4.7
	6	3.3		11	5		2	6		4	4.8		37	8.9
	7	0		12	5		3	6		5	3.5		38	0
	8	0		13	5		4	0		6	3.4		39	4.8
	9	1.1		14	0		5	6		7	7.6		40	4.8
	10	1.1		15	0		6	6		8	0		41	4.8
	11	0		16	5		7	6		9	0		42	0
	12	0	IC5200	1	4.8	IC5301	8	12		10	0.4		43	0
	13	0		2	4.9		1	1.7		11	1.8		44	0
	14	0		3	4.8		2	8.5		12	0.4		45	6.3
	15	0.5		4	4.8		3	6.5		13	0.9		46	8.9
	16	0.3		5	5		4	0		14	5		47	8.9
	17	0.3		6	5		5	6.5		15	2.5		48	6
	18	0.3		7	5		6	7.1		16	0		49	2.5
	19	3.3		8	5	IC5302	7	0.4		17	3		50	4.1
	20	0		9	4.9		8	12		18	2.7		51	0
	21	3.3		10	12.1		1	0		19	3.9		52	6
	22	3.3		11	4.1		2	5.8		20	0		53	5.8
	23	0		12	5		3	6.3		21	6.1		54	5.8
	24	3.2		13	5		4	0		22	2.7		55	0.4
	25	1.2		14	1.9		5	6.6		23	8.8		56	5.8
	26	3.2		15	1.1		6	6.5		24	0		57	5.8
	27	2.1		16	0	IC5400	7	0.4		25	4.3		58	5.8
	28	0.3		17	0		8	12		26	3.2		59	0.3
				18	0		1	1.4		27	5.2		60	0
IC5103	1	3.3	IC5201	1	9.3		2	13.2		28	0.3		61	0
	2	3.3		2	3.8		3	-12.5		29	4.9		62	2.9
	3	1.9		3	3.8		4	-15.4		30	3.4		63	3.7
	4	2.6		4	-15.4		5	-0.4						
	5	2.5								31	5.6			

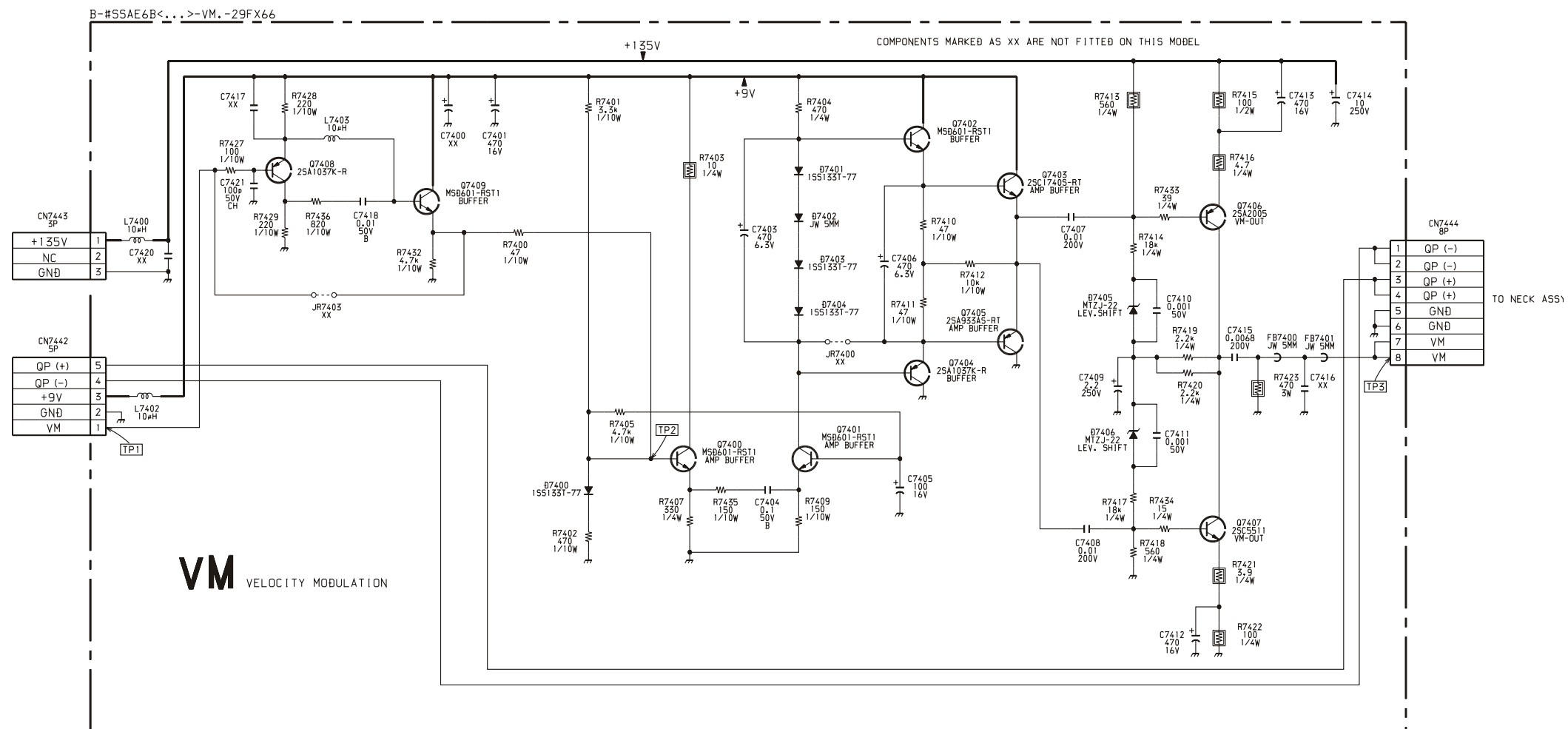
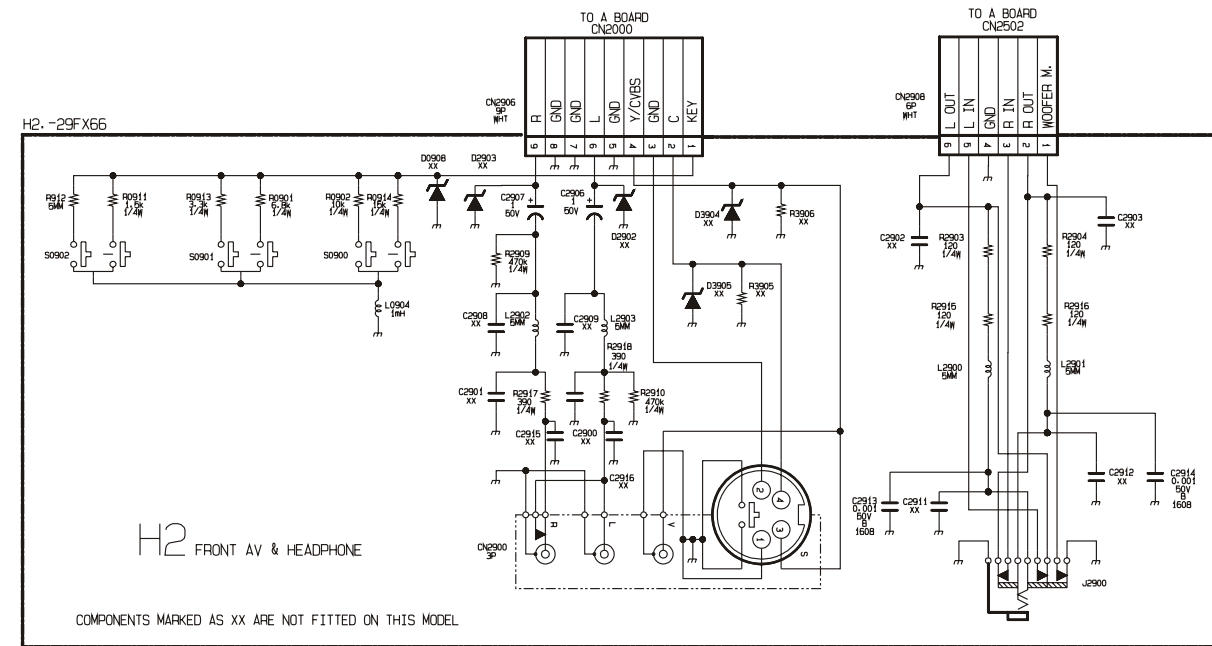
~ H1 Board Schematic Diagram ~



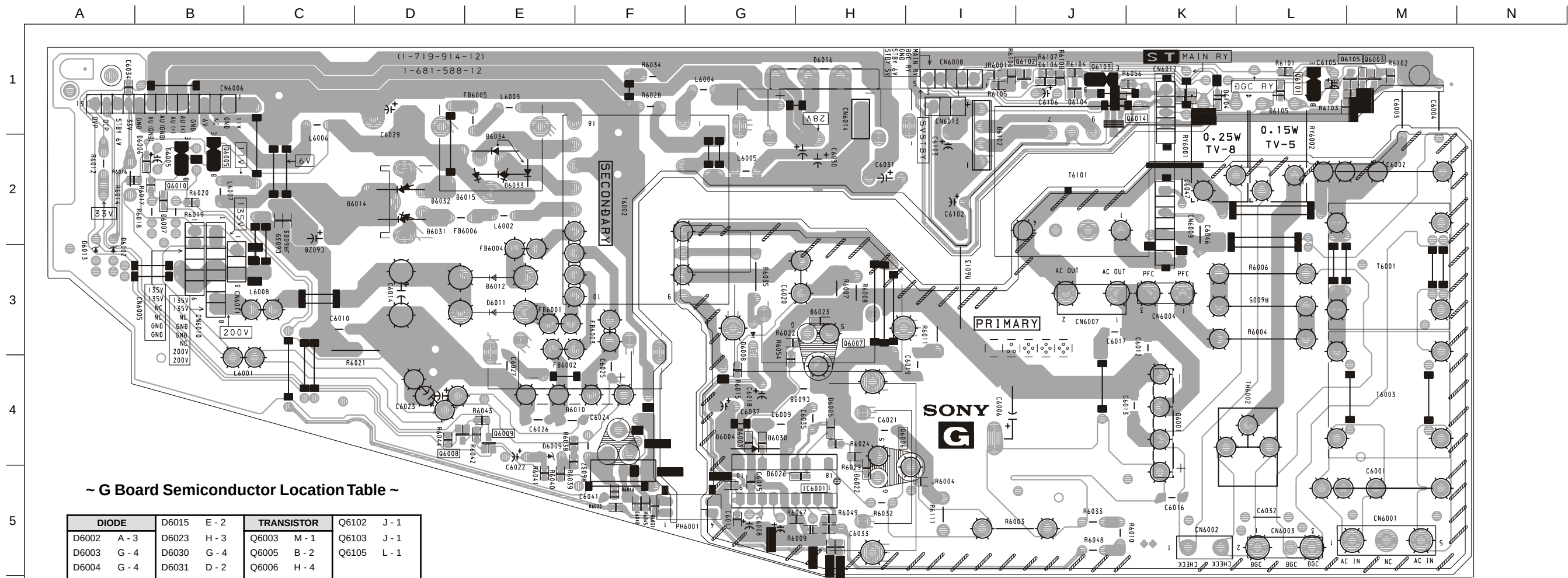
~ F4 Board Schematic Diagram ~



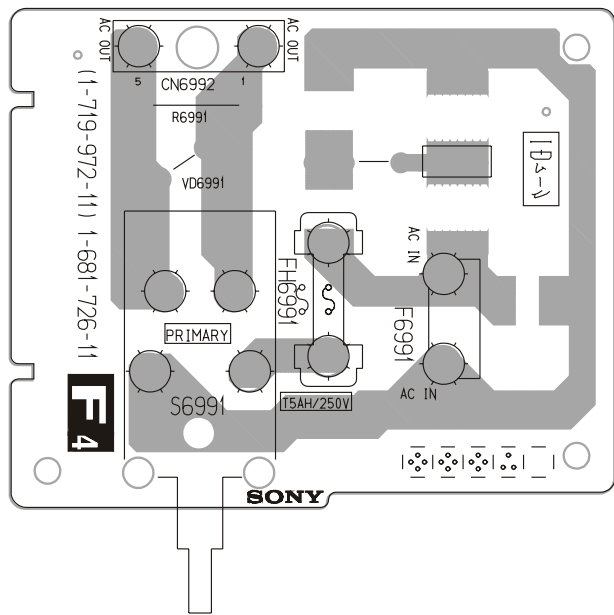
~ H2 Board Schematic Diagram ~



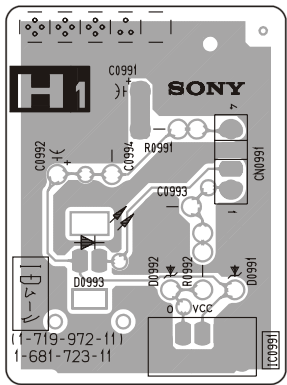
~ VM Board Schematic Diagram ~



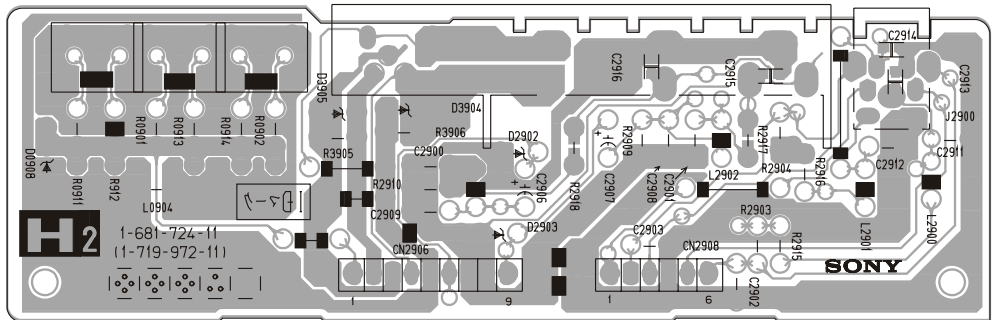
~ G Printed Wiring Board Conductor side ~



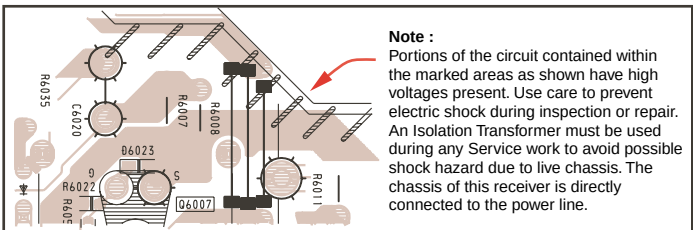
~ F4 Printed Wiring Board Conductor side ~



~ H1 Printed Wiring Board Conductor side ~



~ H2 Printed Wiring Board Conductor side ~

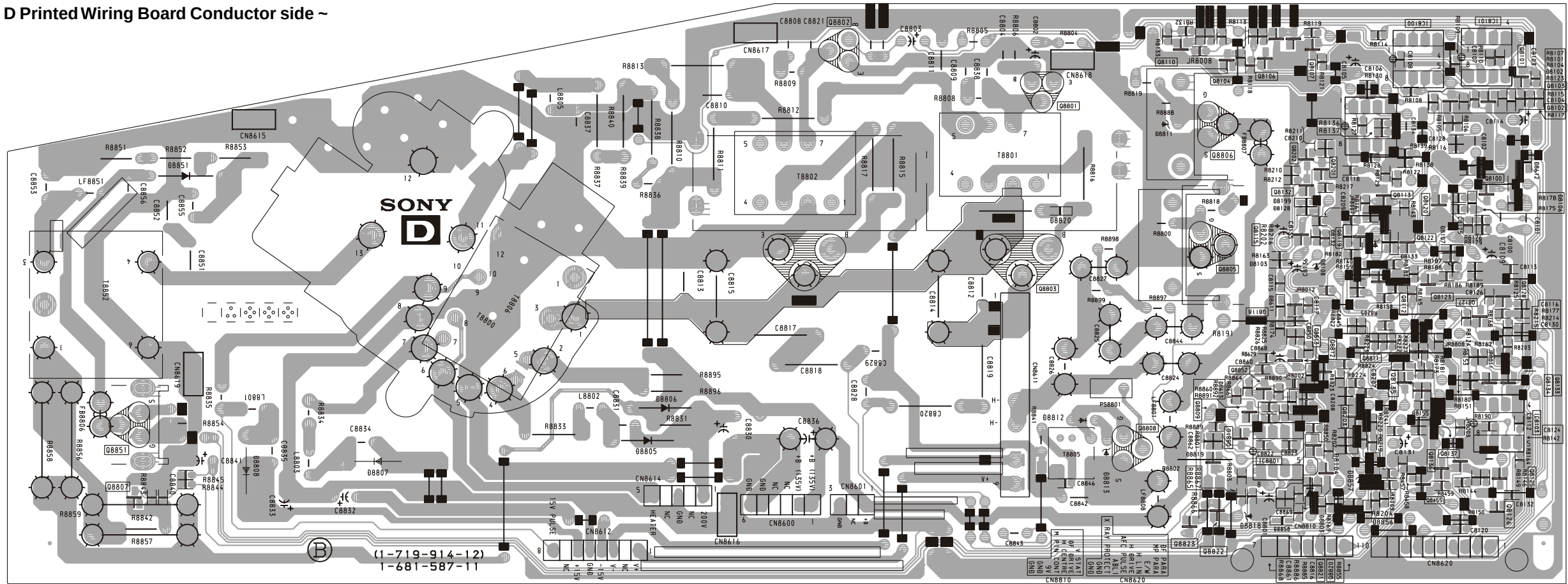




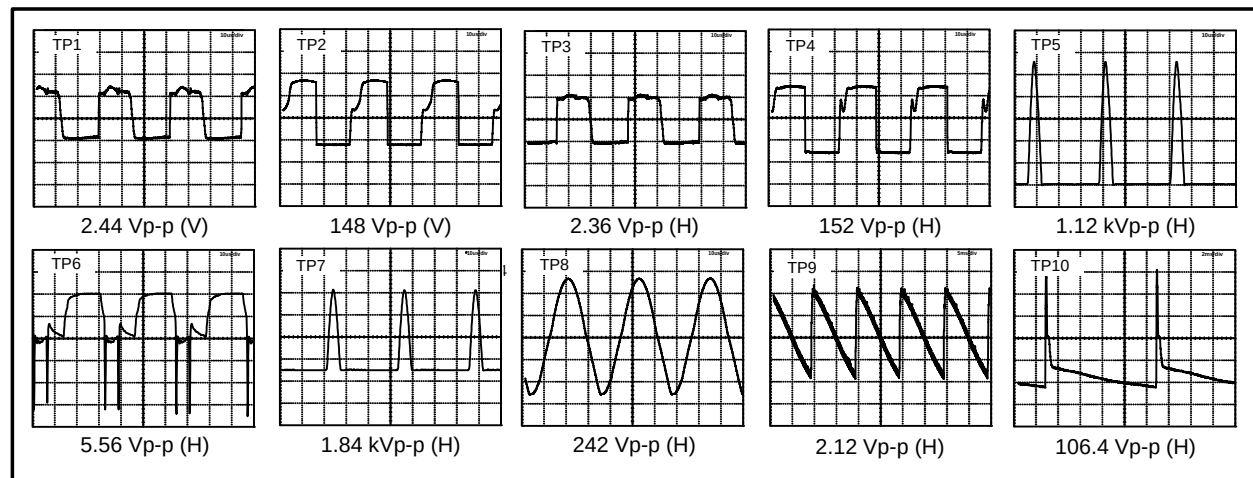


A B C D E F G H I J K L M N

~ D Printed Wiring Board Conductor side ~



~ D Board Waveforms ~

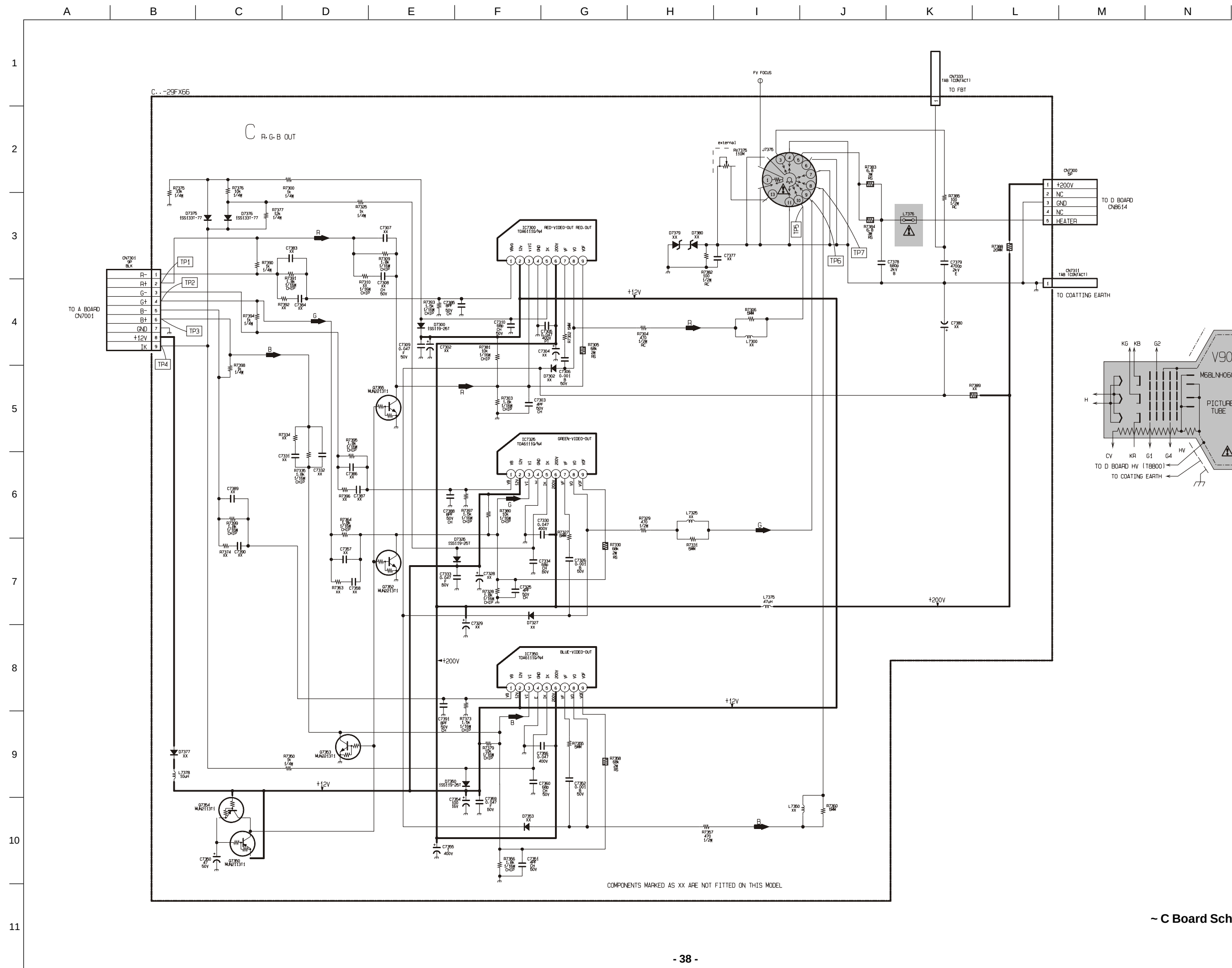


~ D Board IC Voltage Table ~

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC8100	1	0.3
	2	4.3
	3	4.1
	5	4.1
	6	3.0
	7	0.4
	8	0.4
IC8101	1	0.3
	2	4.3
	3	4.4
	5	4.4
	6	3.0
	7	0.4
	8	0.4
IC8102	1	4.1
	2	0.4
	3	0.4
	5	0.4
	6	0.4
	7	0.4
	8	0.4
IC8103	1	2.5
	2	2.1
	3	1.7
	5	1.6
	6	1.0
	7	1.1
	8	1.1

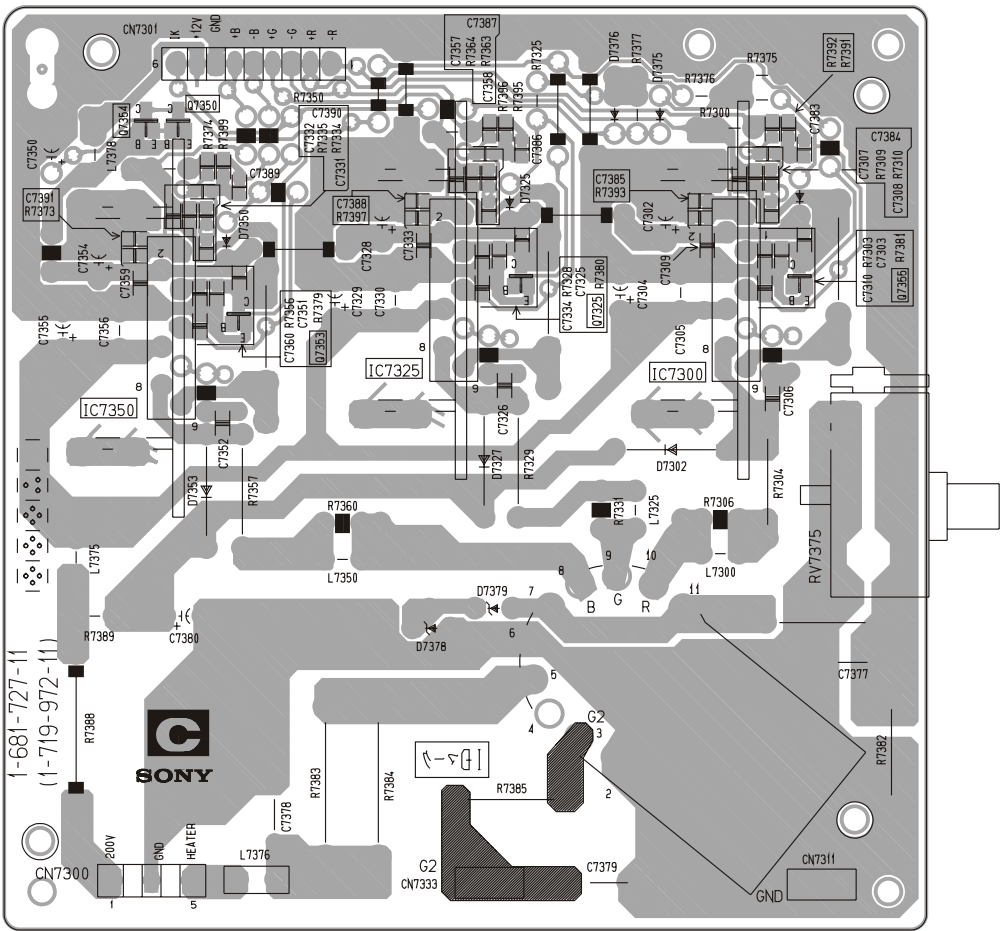
~ D Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q8100	0	0.6	3.6	Q8110	2.4	3.1	0	Q8128	3.4	1.5	8.9	Q8801	0	0.4	64.7
Q8101	0	0.6	4.3	Q8113	0.3	0.2	8.9	Q8132	0	0	3.4	Q8802	0	0.4	73.2
Q8102	0	0.3	4.3	Q8115	8.6	8.9	0	Q8135	2.6	3.2	8.9	Q8807	0	6.3	0
Q8103	4.0	0	8.9	Q8118	0	0	5.0	Q8136	2.5	1.8	0	Q8818	0	0	5.0
Q8104	0	0.4	3.1	Q8119	0.7	1.4	0	Q8137	1.8	2.5	8.9	Q8822	5.5	4.9	0
Q8105	0	0.4	3.2	Q8120	0.7	2.3	0	Q8201	0	0.6	3.9	Q8823	8.9	8.5	0
Q8106	0	0.3	4.3	Q8122	0.5	1.4	0	Q8202	0	0.8	3.4	Q8805	0	2.5	33
Q8107	0	0.3	4.2	Q8123	0.5	1.4	0	Q8203	1.4	0.9	0	Q8806	0	1.2	135
Q8108	2.4	3.2	0	Q8127	1.4	1.5	0	Q8455	1.1	1.7	8.9	Q8851	0	5.4	81.5



~ C Board Schematic [R-G-B Out] ~

~ C Printed Wiring Board Conductor side ~



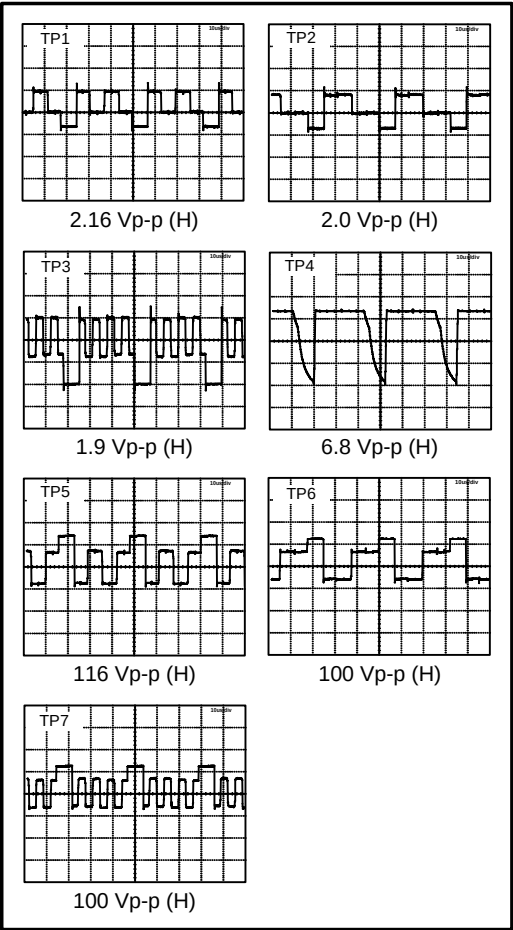
~ C Board Semiconductor Voltage Table ~

Ref	(e)	(b)	(c)
Q7350	12	11.98	0
Q7352	0	0	3.8
Q7353	0	0	3.8
Q7354	11.98	12	0
Q7355	0	0	3.8

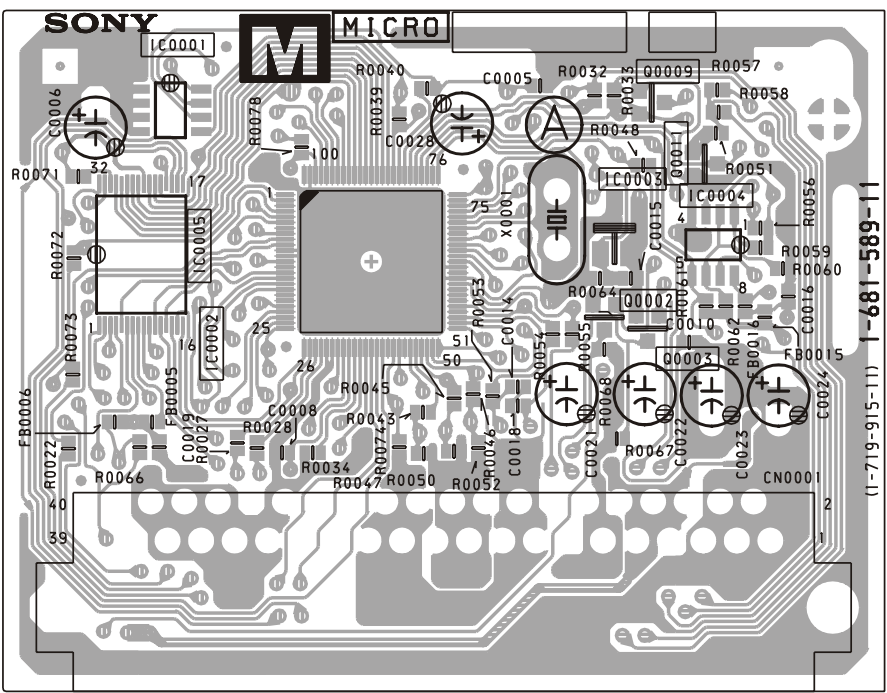
~ C Board IC Voltage Table ~

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC7300	1	3.9
	3	3.8
	5	7.5
	6	200
	7	140
	8	153
	9	140
IC7325	1	3.9
	3	3.8
	5	7.7
	6	200
	7	140
IC7350	1	3.9
	3	3.8
	5	7.5
	6	200
	7	139

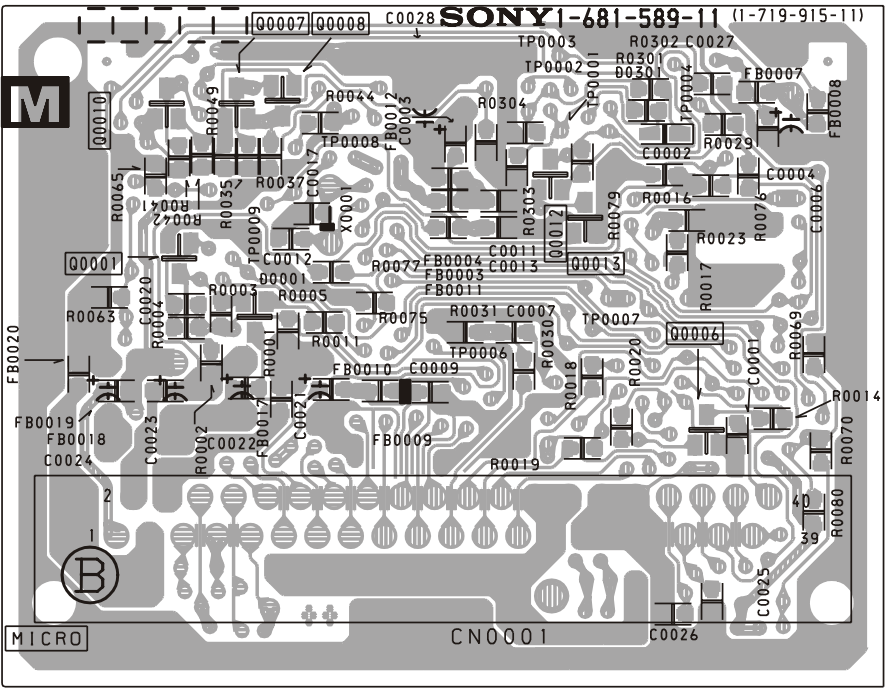
~ C Board Waveforms ~



~ M Printed Wiring Board (A) side ~

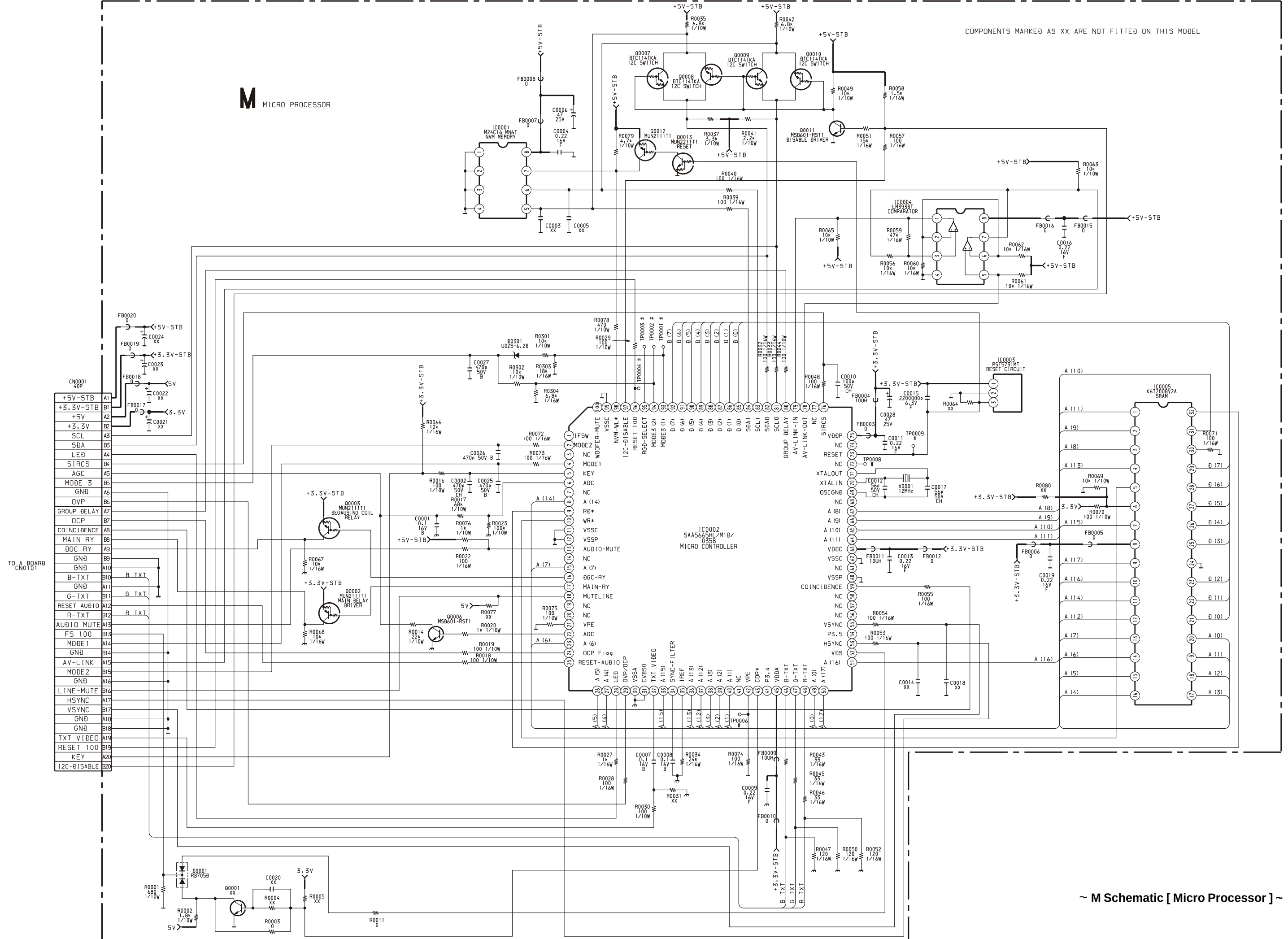


~ M Printed Wiring Board (B) side ~



M MICRO PROCESSOR

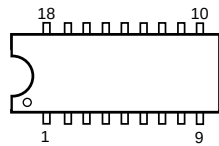
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL



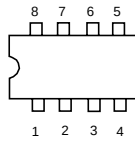
~ M Schematic [Micro Processor] ~

5-4. SEMICONDUCTORS

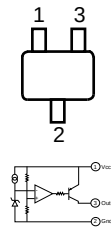
CXAB070AP
MCZ3001D



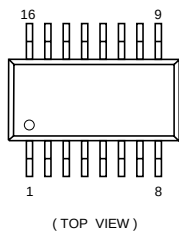
LM318P
LM358N
LM393DT
LM393N
M24C16-MN6T(A)



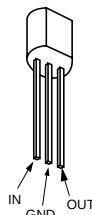
PST573IMT



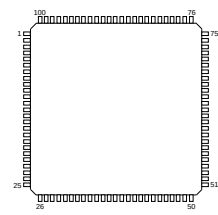
CXA1875AM-T4



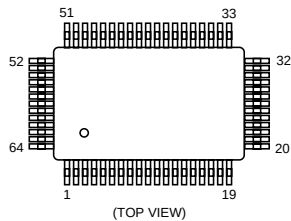
LM78L05ACZ



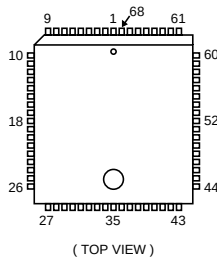
SAA5665HL/M1D/0358



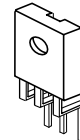
CXA2100AQ-TL



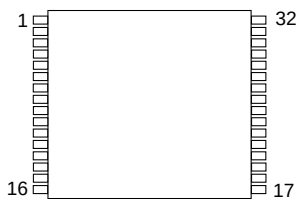
MSP3411G-QA-B10



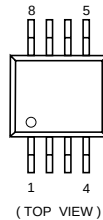
SBX3081-51(30)



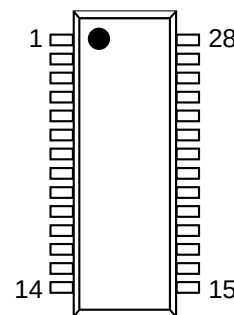
K6T2008V2A-YF70T00



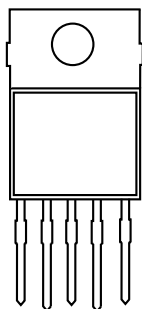
NJM3404AD-W
UPC4558G2



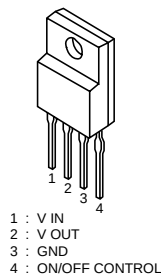
SDA9488X-B23GEG



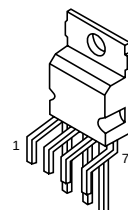
LA6500-FA



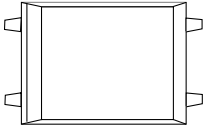
PQ30RV11



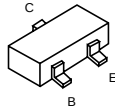
STV9379



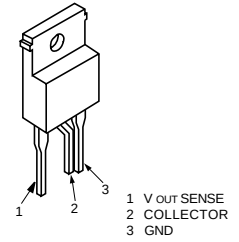
TCET1103G



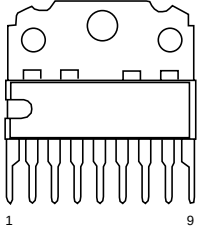
DTA144EK
DTC144TKA-T146
2SA1162-G



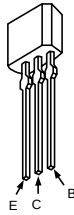
SE135N-LF4



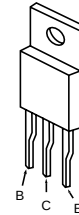
TDA6111Q/N4



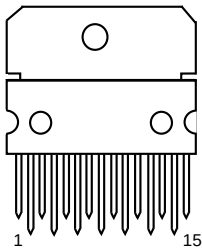
DTA144ESA
2SA933AS-QT
2SC2785-HFE



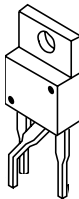
2SA1837(LBS2S0N)



TDA7497



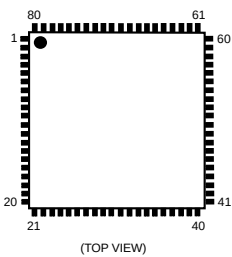
L7809CV/LSY
STP5NB40FP
STP5NB40(030Y)
2SC5698-CA
2S5696-SONY-CA



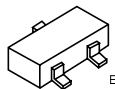
2SB734-34



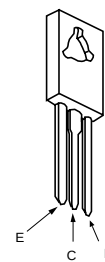
VPS9402-A32GEG



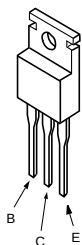
MSB709-RT1
MSD601-RST1
M1MA152WA-T1
UN2111
UN213
2SK2036(TE85L)



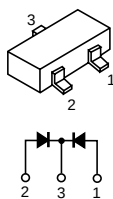
2SC2688(5)-LK



BA12T
BAO33T
IRF614-005
IRF620
SPA07N60C2
2SA2005
2SC5511



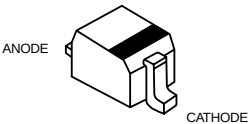
RB705D



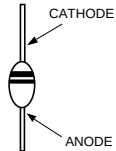
BAS216



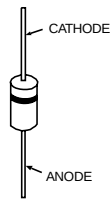
BAS316-115
MMDL914T1
UDZSTE-176.2B



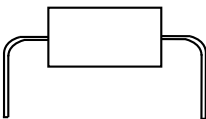
BYV98-200-RAS 15/12



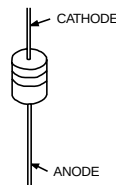
D1NL20U
EGP20G
EL1Z
GP08D
UF4005PKG23



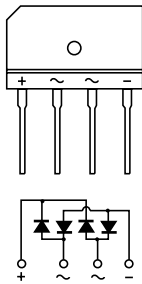
D2S4MTA1



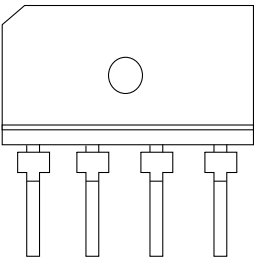
ERA38-06
ERA85-009
HZS9.1NB2
MTZJ-13B
MTZJ-33B
MTZJ-3.6A
MTZJ-4.7C



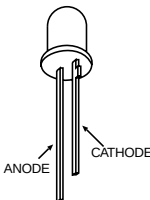
FBIU4D7MA-B
RBV-406B
S1VB40



GS1B460/45



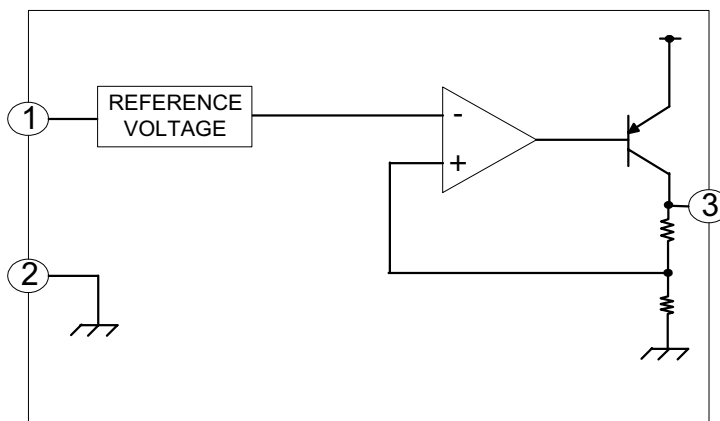
TLHK5190



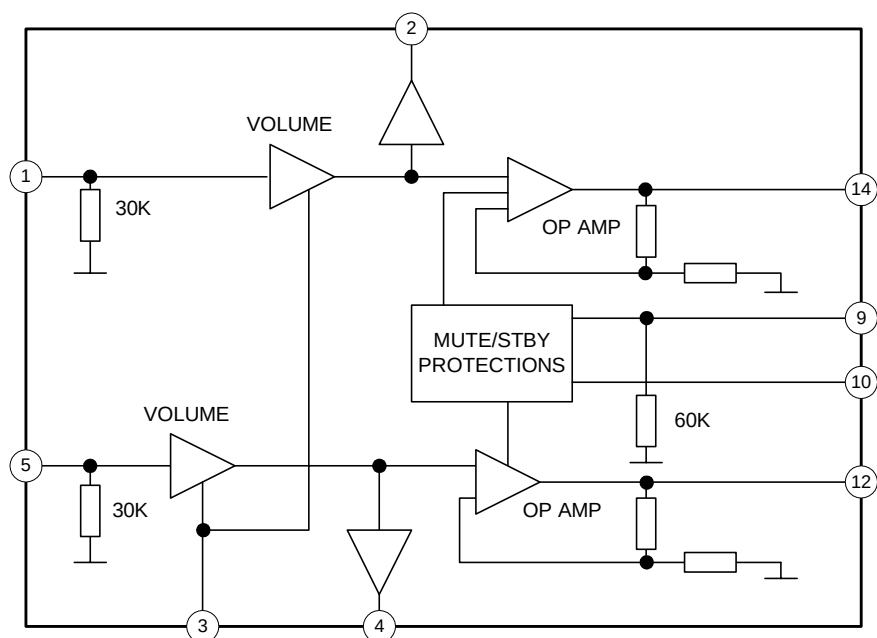
MTZJ-T-77-22
RD15ES-B2
RD39ES-B2
RD5.6ESB2
1SS119-25
1SS133T-77

5-5 IC BLOCK DIAGRAMS

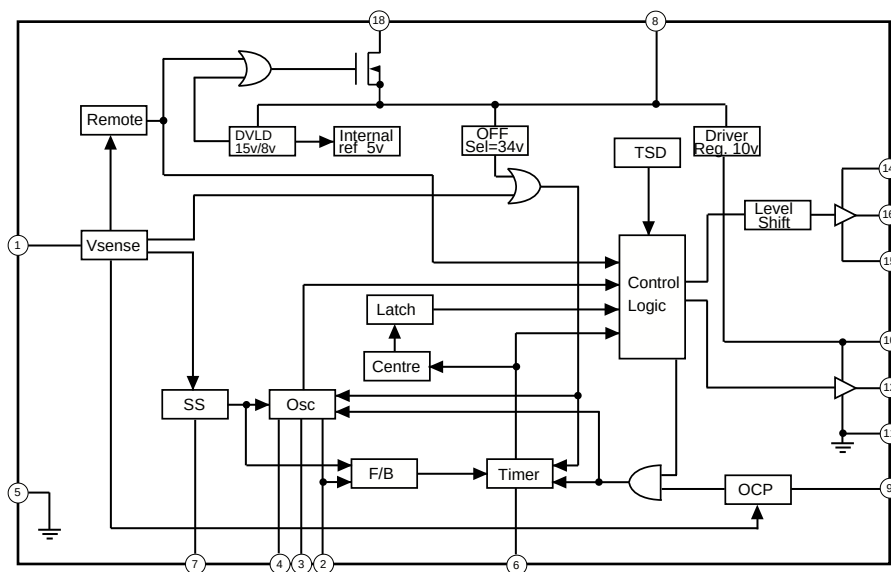
A BOARD IC6202/IC6207/IC6205 BA033T/BA12T



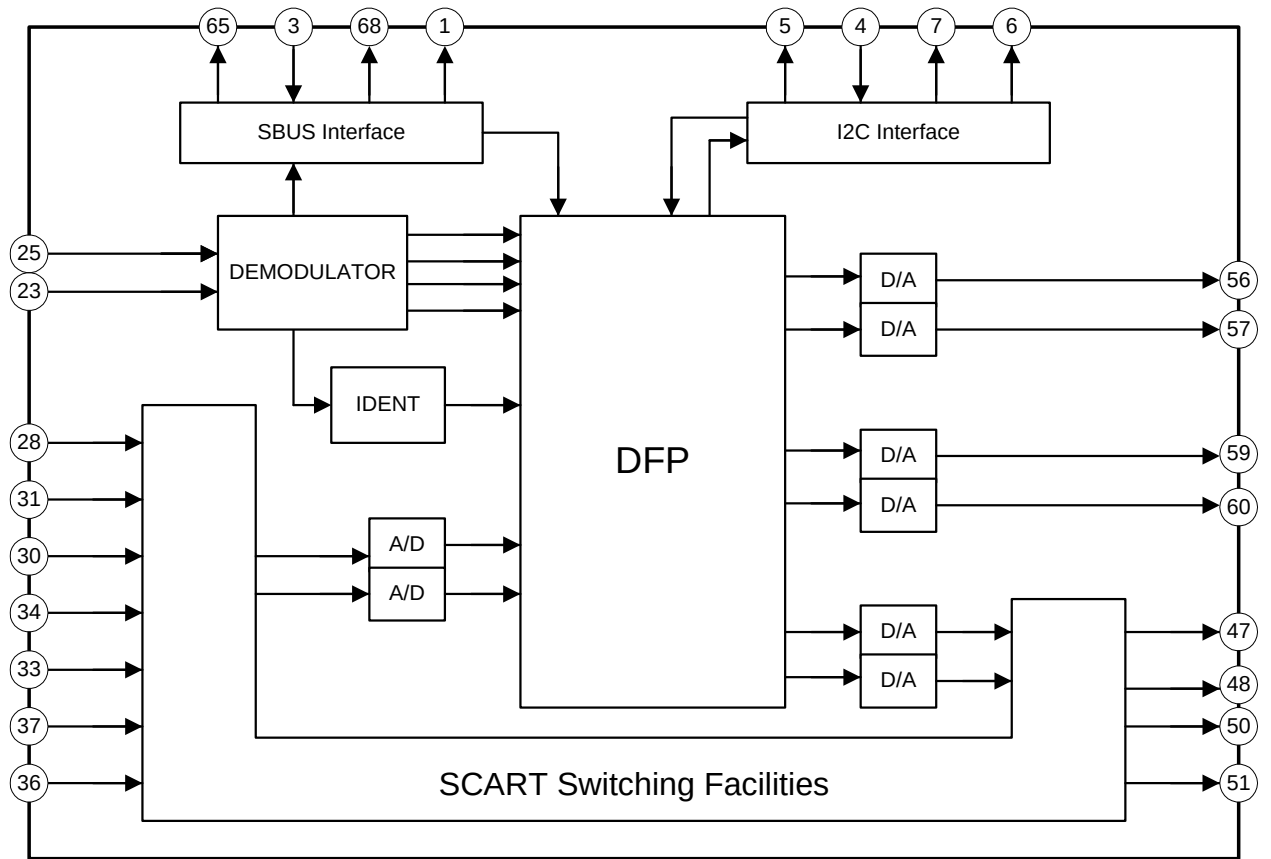
A BOARD IC1201 TDA7497



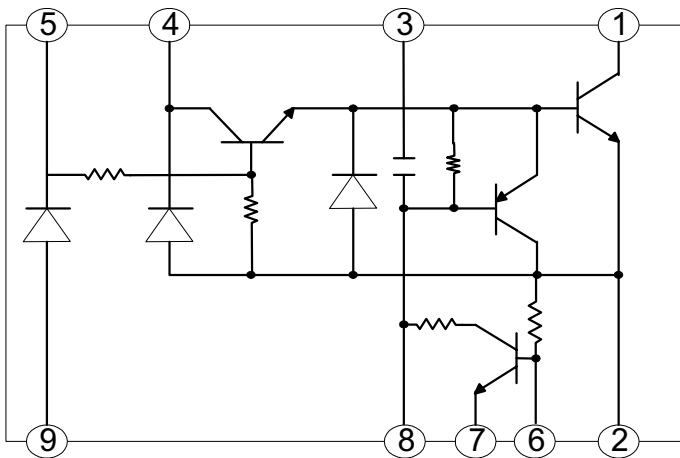
G BOARD IC6001 MCZ3001D



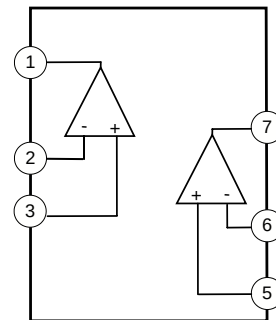
A BOARD IC2000 MSP3411G



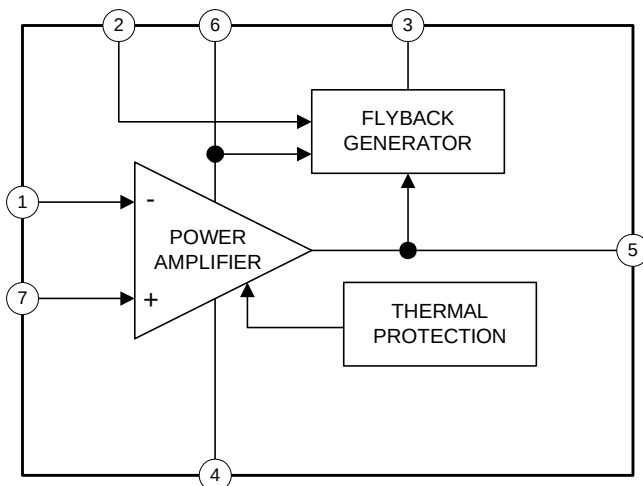
G BOARD IC6003 SE135N-LF4



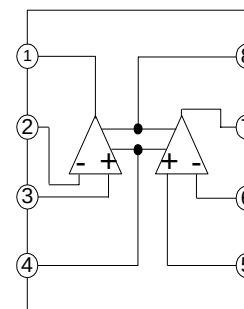
A BOARD IC5301/IC5302 LM393TD



A BOARD IC5400 STV9379



A BOARD IC5300 LM358N



SECTION 6 EXPLODED VIEWS

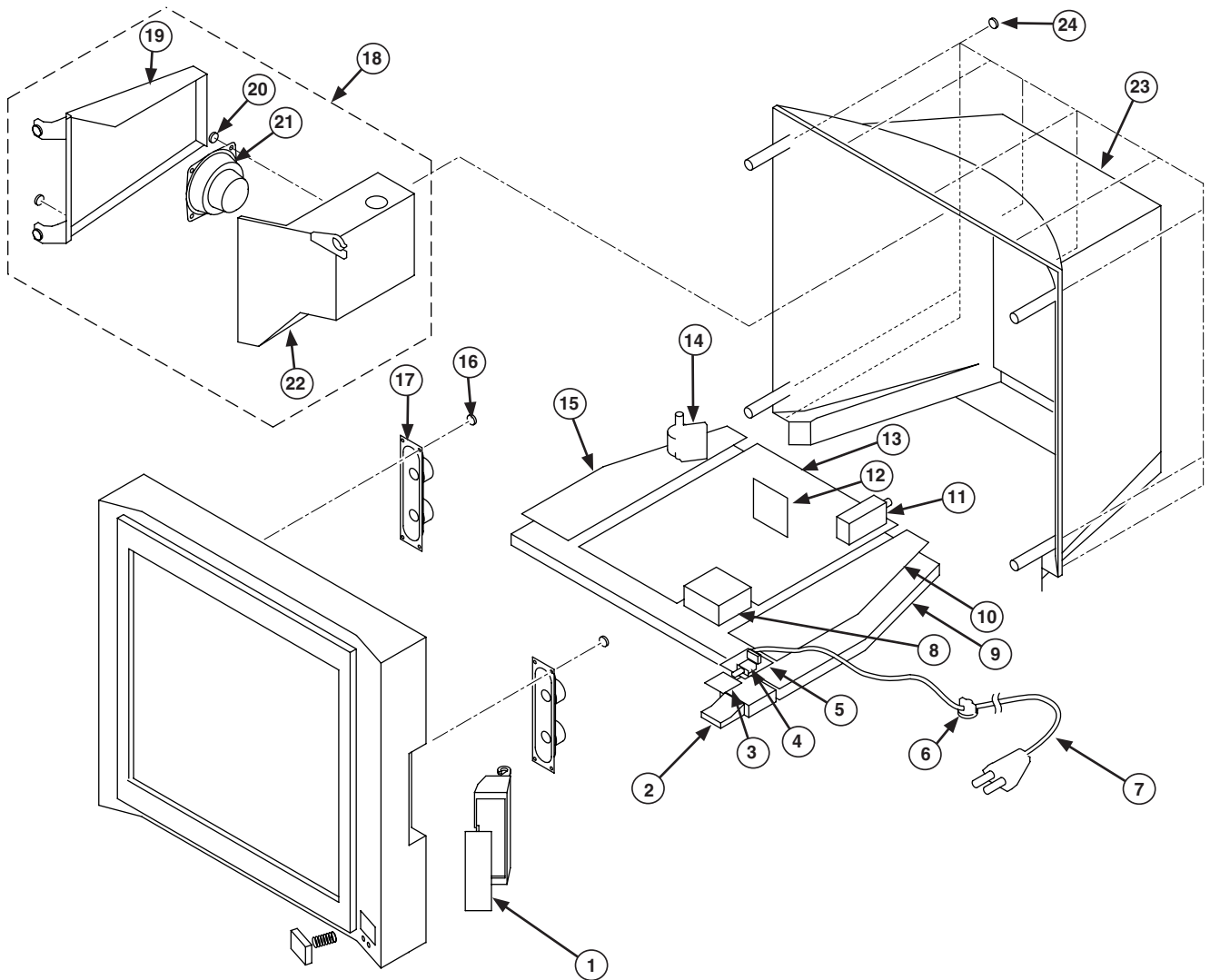
NOTE :

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

6-1. Chassis

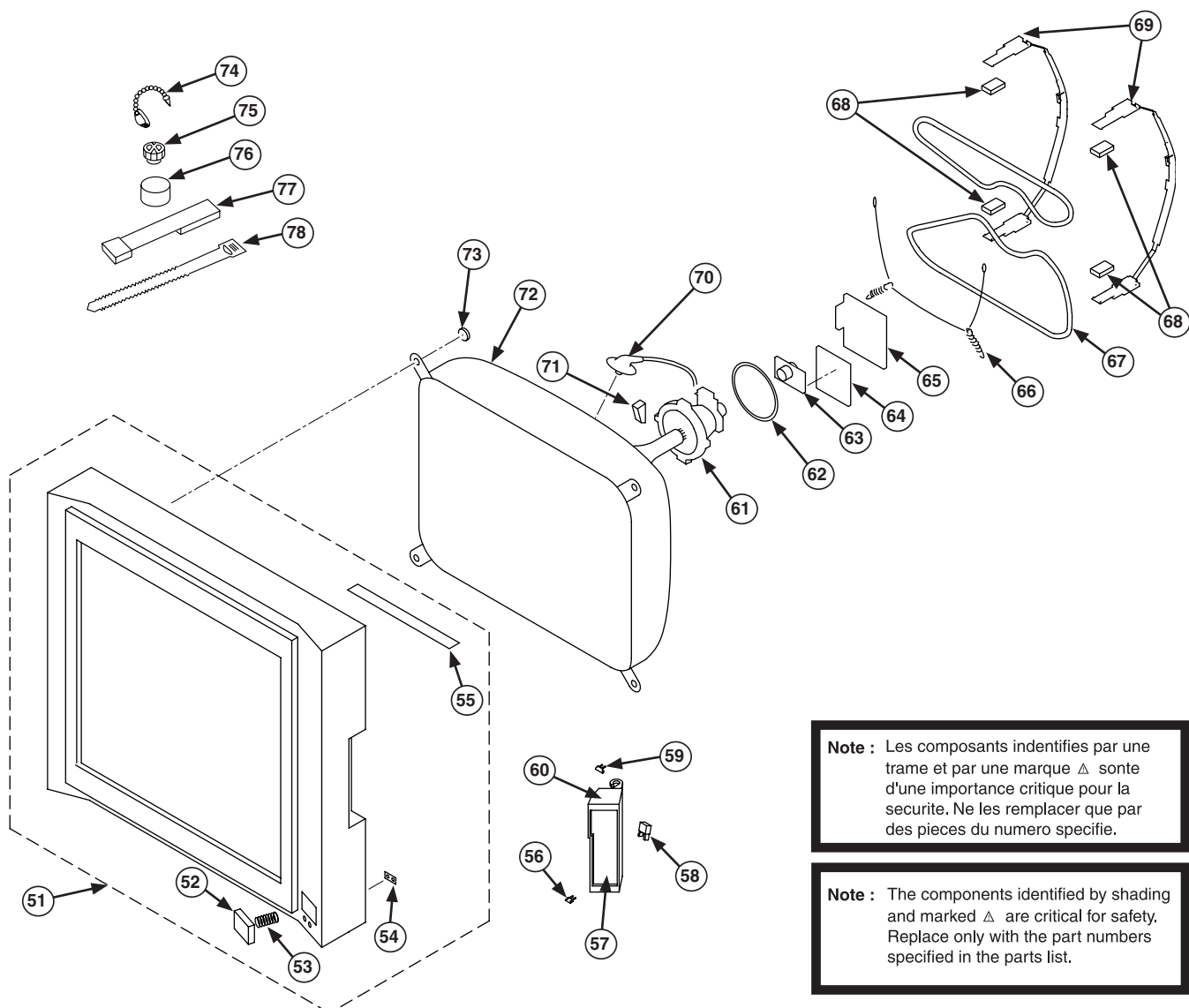
Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

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



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
1	*A-1647-043-A	H2 BOARD, COMPLETE		13	*A-1632-952-A	A BOARD, COMPLETE	
2	*4-206-097-01	F4, H1 BRACKET		14	Δ 1-453-340-31	TRANSFORMER ASSY, FLYBACK (NX-4522//Z2B4)	
3	*A-1646-243-A	H1 BOARD, COMPLETE		15	*A-1640-432-A	D BOARD, COMPLETE	
4	Δ 1-571-433-31	SWITCH, (AC POWER)		16	7-685-663-71	SCREW +BVTP 4x16 TYPE 2 IT-3	
5	*A-1625-000-A	F4 BOARD, COMPLETE		17	1-529-408-11	SPEAKER (4.2x24CM)	
6	*4-202-531-01	AC CORD LOCK (SC)		18	*A-1678-191-C	WOOFER ASSY SP	19-22
7	Δ 1-690-270-21	CORD, POWER (WITH CONNECTOR)		19	*4-204-775-01	BAFFLE, WOOFER	
8	1-424-855-11	COIL, CHOKE		20	7-685-663-71	SCREW +BVTP 4x16 TYPE 2 IT-3	
9	*4-206-106-01	BRACKET, MAIN		21	1-529-417-11	SPEAKER (8CM)	
10	*A-1637-024-A	G BOARD, COMPLETE		22	*4-204-776-01	BOX, WOOFER	
11	8-598-533-01	FRONTEND BTF-EC411		23	4-206-096-01	REAR COVER	
12	*A-1634-062-A	M BOARD, COMPLETE		24	7-685-663-79	SCREW +BVTP 4x16 TYPE 2 IT-3	

6-2. Picture Tube



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
51	X-4200-730-1	BEZNET ASSY	52-55	65	*A-1638-158-A	C BOARD, COMPLETE	
52	4-205-720-02	POWER BUTTON		66	4-369-318-21	SPRING, TENSION	
53	4-204-426-01	SPRING		67	Δ 1-424-887-11	COIL, DEGAUSSING	
54	4-204-726-01	GUIDE, LIGHT		68	4-203-390-11	CUSHION, DGC	
55	4-204-865-01	SHEET, BLOTING		69	*4-204-768-01	HOLDER, DGC (29")	
56	3-022-410-01	DAMPER		70	Δ 1-251-946-11	CAP ASSY, HIGH-VOLTAGE	
57	4-205-722-02	DOOR		71	3-704-495-01	SPACER, DY	
58	4-047-464-01	CATCHER, PUSH		72	Δ 8-735-053-05	PICTURE TUBE (M68LNH060X)	
59	4-205-725-01	DOOR SPRING		73	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
60	*4-205-723-01	DOOR BRACKET		74	4-308-870-00	CLIP, LEAD WIRE	
61	8-451-504-31	DEFLECTION YOKE (Y29RSC-S)		75	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
62	1-452-896-11	COIL, NA ROTATION (RT200)		76	1-452-032-00	MAGNET, DISK; 10MM	
63	8-453-011-41	NECK ASSY, (NA299-C)		77	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
64	*A-1644-119-A	VM BOARD, COMPLETE		78	3-701-007-00	BAND, BINDING	

SECTION 7 ELECTRICAL PARTS LIST

PARTS LISTING TABLE OF CONTENTS

	<u>Page</u>
H2 BOARD COMPLETE Parts List :	49
F4 BOARD COMPLETE Parts List :	49
H1 BOARD COMPLETE Parts List :	49
A BOARD COMPLETE Parts List :	49
M BOARD COMPLETE Parts List :	59
G BOARD COMPLETE Parts List :	60
C BOARD COMPLETE Parts List :	62
D BOARD COMPLETE Parts List :	63
VM BOARD COMPLETE Parts List :	66
MISCELLANEOUS :	68
ACCESSORIES AND PACKAGING MATERIALS :	68

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-1647-043-A H2 Board, Complete

< CAPACITOR >

C2906	1-126-960-11	ELECT	1UF	20.00%	50V
C2907	1-126-960-11	ELECT	1UF	20.00%	50V
C2913	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C2914	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V

< CONNECTOR >

CN2900	1-779-947-11	TERMINAL BLOCK, S
CN2906	*1-564-524-11	PLUG, CONNECTOR 9P
CN2908	1-564-521-11	PLUG, CONNECTOR 6P

< JACK >

J2900	1-750-264-11	JACK
-------	--------------	------

< COIL >

L0904	1-410-119-11	INDUCTOR	1MH
L2900	1-535-143-61	LEAD, JUMPER	(5.0MM)
L2901	1-535-143-61	LEAD, JUMPER	(5.0MM)
L2902	1-535-143-61	LEAD, JUMPER	(5.0MM)
L2903	1-535-143-61	LEAD, JUMPER	(5.0MM)

< RESISTOR >

R912	1-535-143-61	LEAD, JUMPER	(5.0MM)
R0901	1-249-427-11	CARBON	6.8K 5% 1/4W
R0902	1-249-429-11	CARBON	10K 5% 1/4W
R0911	1-249-419-11	CARBON	1.5K 5% 1/4W
R0913	1-247-843-11	CARBON	3.3K 5% 1/4W
R0914	1-249-431-11	CARBON	15K 5% 1/4W
R2903	1-249-406-11	CARBON	120 5% 1/4W
R2904	1-249-406-11	CARBON	120 5% 1/4W
R2909	1-247-895-91	CARBON	470K 5% 1/4W
R2910	1-247-895-91	CARBON	470K 5% 1/4W
R2915	1-249-406-11	CARBON	120 5% 1/4W
R2916	1-249-406-11	CARBON	120 5% 1/4W
R2917	1-249-412-11	CARBON	390 5% 1/4W
R2918	1-249-412-11	CARBON	390 5% 1/4W

< SWITCH >

S0900	1-692-979-11	SWITCH, TACTILE
S0901	1-692-979-11	SWITCH, TACTILE
S0902	1-692-979-11	SWITCH, TACTILE

*A-1625-000-A F4 Board, Complete

*4-374-846-01 COVER, CAPACITOR, CAP TYPE

< CAPACITOR >

C6991	△ 1-113-924-11	CERAMIC	0.0047UF	20.00%	250V
-------	----------------	---------	----------	--------	------

REF.NO.	PART.NO	DESCRIPTION	REMARK
---------	---------	-------------	--------

< CONNECTOR >

CN6991	1-580-843-11	PIN, CONNECTOR (POWER)
CN6992	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P
CN6993	1-695-915-11	TAB (CONTACT)

< FUSE >

F6991	△ 1-576-232-11	FUSE (H.B.C.)	5A/250V
	*1-533-725-11	HOLDER, FUSE (F6991)	

< RESISTOR >

R6991	1-202-719-00	SOLID	1M	10%	1/2W
-------	--------------	-------	----	-----	------

< SWITCH >

S6991	△ 1-571-433-31	SWITCH (AC POWER)
-------	----------------	-------------------

< VARISTOR >

VD6991	1-803-830-11	VARISTOR (ERZV14D621)
--------	--------------	-----------------------

*A-1646-243-A H1 Board, Complete

4-206-220-01 HOLDER, LED

< CAPACITOR >

C0992	1-104-665-11	ELECT	100UF	20.00%	25V
C0993	1-102-114-00	CERAMIC	470PF	10.00%	50V
C0994	1-102-129-00	CERAMIC	0.01UF	10.00%	50V

< CONNECTOR >

CN0991	*1-564-507-11	PLUG, CONNECTOR 4P
--------	---------------	--------------------

< DIODE >

D0991	8-719-109-89	DIODE RD5.6ESB2
D0993	8-719-082-12	DIODE TLHK5190

< IC >

IC0991	8-742-180-30	HYB IC SBX3081-51(30)
--------	--------------	-----------------------

< RESISTOR >

R0992	1-247-807-31	CARBON	100	5%	1/4W
-------	--------------	--------	-----	----	------

*A-1632-952-A A Board, Complete

4-382-854-01 SCREW (M3X8), P, SW (+)

< CAPACITOR >

C1001	1-126-933-11	ELECT	100UF	20.00%	16V
C1002	1-126-964-11	ELECT	10UF	20.00%	50V
C1004	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C1006	1-126-933-11	ELECT 100UF	20.00% 16V	C2053	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
C1008	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2054	1-126-947-11	ELECT 47UF	20.00% 25V
C1009	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V	C2055	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1010	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V	C2057	1-126-964-11	ELECT 10UF	20.00% 50V
C1014	1-126-933-11	ELECT 100UF	20.00% 16V	C2058	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1015	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2059	1-126-964-11	ELECT 10UF	20.00% 50V
C1018	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C2060	1-126-947-11	ELECT 47UF	20.00% 25V
C1020	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C2061	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1021	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C2062	1-164-346-11	CERAMIC CHIP 1UF	16V
C1022	1-216-295-91	SHORT 0		C2063	1-164-346-11	CERAMIC CHIP 1UF	16V
C2000	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C2064	1-126-964-11	ELECT 10UF	20.00% 50V
C2001	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C2065	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2006	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2066	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2007	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2069	1-127-715-91	CERAMIC CHIP 0.22UF	10.00% 16V
C2008	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C2073	1-126-960-91	ELECT 1UF	20.00% 50V
C2009	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2074	1-126-960-91	ELECT 1UF	20.00% 50V
C2010	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C2075	1-126-960-91	ELECT 1UF	20.00% 50V
C2011	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2077	1-126-960-91	ELECT 1UF	20.00% 50V
C2012	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2078	1-126-963-11	ELECT 4.7UF	20.00% 50V
C2013	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2079	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2014	1-164-346-11	CERAMIC CHIP 1UF	16V	C2080	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2015	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2081	1-115-414-11	CERAMIC CHIP 820PF	5.00% 25V
C2016	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2082	1-163-249-11	CERAMIC CHIP 82PF	5.00% 50V
C2018	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2083	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2019	1-164-346-11	CERAMIC CHIP 1UF	16V	C2084	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2021	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2085	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2022	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V	C2086	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2023	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V	C2087	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2024	1-164-346-11	CERAMIC CHIP 1UF	16V	C2088	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C2026	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2089	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C2027	1-126-947-11	ELECT 47UF	20.00% 25V	C2090	1-126-947-11	ELECT 47UF	20.00% 25V
C2028	1-126-947-11	ELECT 47UF	20.00% 25V	C2091	1-126-947-11	ELECT 47UF	20.00% 25V
C2029	1-164-346-11	CERAMIC CHIP 1UF	16V	C2092	1-126-947-11	ELECT 47UF	20.00% 25V
C2031	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2093	1-126-947-11	ELECT 47UF	20.00% 25V
C2034	1-164-346-11	CERAMIC CHIP 1UF	16V	C2094	1-126-947-11	ELECT 47UF	20.00% 25V
C2035	1-164-346-11	CERAMIC CHIP 1UF	16V	C2095	1-126-947-11	ELECT 47UF	20.00% 25V
C2038	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C2096	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2039	1-162-906-91	CERAMIC CHIP 1.5PF	0.25PF 50V	C2500	1-126-952-11	ELECT 1000UF	20.00% 35V
C2040	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C2502	1-104-666-11	ELECT 220UF	20.00% 25V
C2041	1-162-906-91	CERAMIC CHIP 1.5PF	0.25PF 50V	C2504	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C2042	1-163-249-11	CERAMIC CHIP 82PF	5.00% 50V	C2505	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C2043	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C2506	1-126-972-11	ELECT 1000UF	20.00% 50V
C2044	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C2507	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C2046	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V	C2508	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C2047	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C2509	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C2048	1-126-947-11	ELECT 47UF	20.00% 25V	C2510	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
C2049	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V	C2511	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2050	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C2512	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2051	1-126-964-11	ELECT 10UF	20.00% 50V	C2513	1-126-952-11	ELECT 1000UF	20.00% 35V
C2052	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C2515	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK				
C2516	1-126-953-11	ELECT	2200UF	20.00%	35V	C3230	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C2517	1-126-960-11	ELECT	1UF	20.00%	50V	C3231	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C2518	1-126-960-11	ELECT	1UF	20.00%	50V	C3232	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C2519	1-126-959-11	ELECT	0.47UF	20.00%	50V	C3233	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C2521	1-164-346-11	CERAMIC CHIP	1UF		16V	C3234	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C2522	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C3235	1-165-176-91	CERAMIC CHIP	47000PF	10.00%	16V
C2523	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V	C3236	1-165-176-91	CERAMIC CHIP	47000PF	10.00%	16V
C3101	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C3237	1-165-176-91	CERAMIC CHIP	47000PF	10.00%	16V
C3102	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C3238	1-165-176-91	CERAMIC CHIP	47000PF	10.00%	16V
C3103	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C3239	1-165-176-91	CERAMIC CHIP	47000PF	10.00%	16V
C3104	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C3240	1-165-176-91	CERAMIC CHIP	47000PF	10.00%	16V
C3105	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C3241	1-126-933-11	ELECT	100UF	20.00%	16V
C3106	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C3242	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C3107	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C3243	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C3108	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C3244	1-163-113-00	CERAMIC CHIP	68PF	5.00%	50V
C3109	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C3250	1-163-021-91	CERAMIC CHIP	10000PF	10.00%	50V
C3112	1-126-964-11	ELECT	10UF	20.00%	50V	C3300	1-163-251-91	CERAMIC CHIP	100PF	5.00%	50V
C3113	1-126-963-11	ELECT	4.7UF	20.00%	50V	C3309	1-126-964-11	ELECT	10UF	20.00%	50V
C3114	1-126-963-11	ELECT	4.7UF	20.00%	50V	C3310	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C3115	1-126-963-11	ELECT	4.7UF	20.00%	50V	C3406	1-126-964-11	ELECT	10UF	20.00%	50V
C3116	1-126-964-11	ELECT	10UF	20.00%	50V	C5110	1-126-947-11	ELECT	47UF	20.00%	25V
C3117	1-126-964-11	ELECT	10UF	20.00%	50V	C5111	1-126-964-11	ELECT	10UF	20.00%	50V
C3118	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V	C5112	1-126-964-11	ELECT	10UF	20.00%	50V
C3119	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V	C5114	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3200	1-126-964-11	ELECT	10UF	20.00%	50V	C5115	1-126-964-11	ELECT	10UF	20.00%	50V
C3202	1-126-964-11	ELECT	10UF	20.00%	50V	C5116	1-126-964-11	ELECT	10UF	20.00%	50V
C3203	1-126-964-11	ELECT	10UF	20.00%	50V	C5117	1-126-964-11	ELECT	10UF	20.00%	50V
C3206	1-126-964-11	ELECT	10UF	20.00%	50V	C5118	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3208	1-163-227-91	CERAMIC CHIP	10PF	0.5PF	50V	C5119	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C3209	1-163-227-91	CERAMIC CHIP	10PF	0.5PF	50V	C5120	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C3210	1-126-964-11	ELECT	10UF	20.00%	50V	C5121	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C3211	1-126-964-11	ELECT	10UF	20.00%	50V	C5122	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3212	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V	C5123	1-126-964-11	ELECT	10UF	20.00%	50V
C3213	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5124	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3214	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5125	1-126-964-11	ELECT	10UF	20.00%	50V
C3215	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5200	1-136-177-00	FILM	1UF	5.00%	50V
C3216	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5201	1-163-989-11	CERAMIC CHIP	0.033UF	10.00%	25V
C3217	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5202	1-126-947-11	ELECT	47UF	20.00%	25V
C3218	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5203	1-136-177-00	FILM	1UF	5.00%	50V
C3219	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5204	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C3220	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5205	1-163-989-11	CERAMIC CHIP	0.033UF	10.00%	25V
C3221	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5206	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C3222	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5207	1-126-947-11	ELECT	47UF	20.00%	25V
C3223	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5209	1-163-127-00	CERAMIC CHIP	270PF	5.00%	50V
C3224	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5210	1-164-336-11	CERAMIC CHIP	0.33UF		25V
C3225	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5211	1-136-165-00	FILM	0.1UF	5.00%	50V
C3226	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5212	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C3227	1-164-222-91	CERAMIC CHIP	0.22UF		25V	C5213	1-126-947-11	ELECT	47UF	20.00%	25V
C3228	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V	C5214	1-126-964-11	ELECT	10UF	20.00%	50V
C3229	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V	C5215	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C5216	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C5890	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
C5217	1-136-165-00	FILM 0.1UF	5.00% 50V	C5891	1-137-581-11	FILM 0.1UF	5.00% 100V
C5218	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V	C5892	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5219	1-126-964-11	ELECT 10UF	20.00% 50V	C5893	1-126-947-11	ELECT 47UF	20.00% 25V
C5300	1-126-933-11	ELECT 100UF	20.00% 16V	C5894	1-126-947-11	ELECT 47UF	20.00% 25V
C5301	1-126-947-11	ELECT 47UF	20.00% 25V	C5895	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5302	1-164-222-91	CERAMIC CHIP 0.22UF	25V	C5896	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C5303	1-136-153-00	FILM 0.01UF	5.00% 50V	C5897	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5304	1-164-182-11	CERAMIC CHIP 0.0033UF	10.00% 50V	C5898	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C5305	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C5899	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C5306	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6200	1-126-933-11	ELECT 100UF	20.00% 16V
C5307	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6201	1-126-935-11	ELECT 470UF	20.00% 16V
C5309	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C6202	1-126-933-11	ELECT 100UF	20.00% 16V
C5310	1-136-165-00	FILM 0.1UF	5.00% 50V	C6203	1-126-935-11	ELECT 470UF	20.00% 10V
C5311	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6204	1-126-933-11	ELECT 100UF	20.00% 16V
C5312	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C6205	1-126-935-11	ELECT 470UF	20.00% 10V
C5313	1-107-714-11	ELECT 10UF	20.00% 50V	C6206	1-126-933-11	ELECT 100UF	20.00% 16V
C5314	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C6207	1-126-933-11	ELECT 100UF	20.00% 16V
C5316	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V	C6208	1-126-933-11	ELECT 100UF	20.00% 16V
C5318	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6209	1-126-933-11	ELECT 100UF	20.00% 16V
C5319	1-136-347-11	FILM 0.0047UF	5.00% 630V	C6210	1-126-935-11	ELECT 470UF	20.00% 16V
C5320	1-129-716-00	FILM 0.015UF	5.00% 630V	C6211	1-126-947-11	ELECT 47UF	20.00% 25V
C5321	1-136-347-11	FILM 0.0047UF	5.00% 630V	C6212	1-126-933-11	ELECT 100UF	20.00% 16V
C5322	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6213	1-126-933-11	ELECT 100UF	20.00% 16V
C5323	1-136-159-00	FILM 0.033UF	5.00% 50V	C6214	1-126-933-11	ELECT 100UF	20.00% 16V
C5400	1-126-964-11	ELECT 10UF	20.00% 50V	C7002	1-126-947-11	ELECT 47UF	20.00% 25V
C5401	1-107-714-11	ELECT 10UF	20.00% 50V	C7004	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C5403	1-128-527-11	ELECT 330UF	20.00% 25V	C7008	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C5404	1-102-228-00	CERAMIC 470PF	10.00% 500V	C7016	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C5405	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C7018	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5406	1-129-702-00	MYLAR 0.001UF	10.00% 400V	C7019	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5407	1-128-527-11	ELECT 330UF	20.00% 25V	C7020	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5409	1-126-968-11	ELECT 100UF	20.00% 50V	C7021	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5410	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C7022	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5411	1-137-401-11	MYLAR 0.22UF	10.00% 100V	C7023	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5412	1-106-220-00	MYLAR 0.1UF	10.00% 100V	C7030	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5413	1-130-785-11	MYLAR 0.47UF	10.00% 100V	C7031	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5801	1-126-963-11	ELECT 4.7UF	20.00% 50V	C7032	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5850	1-126-963-11	ELECT 4.7UF	20.00% 50V	C7038	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C5851	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C7039	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C5853	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C7050	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C5854	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C7051	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5858	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C7052	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5859	1-126-960-11	ELECT 1UF	20.00% 50V	C7053	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C5860	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C7054	1-126-963-11	ELECT 4.7UF	20.00% 50V
C5868	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C7055	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C5872	1-164-346-11	CERAMIC CHIP 1UF	16V	C7056	1-126-933-11	ELECT 100UF	20.00% 16V
C5873	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C7057	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C5888	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C7058	1-126-933-11	ELECT 100UF	20.00% 16V
C5889	1-126-964-11	ELECT 10UF	20.00% 50V	C7059	1-126-933-11	ELECT 100UF	20.00% 16V

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C7060	1-164-222-91	CERAMIC CHIP 0.22UF	25V	D3001	8-719-929-15	DIODE HZS9.1NB2	
C7061	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D3003	8-719-929-15	DIODE HZS9.1NB2	
C7062	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D3005	8-719-929-15	DIODE HZS9.1NB2	
C7063	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D3007	8-719-109-89	DIODE RD5.6ESB2	
C7064	1-126-947-11	ELECT 47UF	20.00% 25V	D3008	8-719-109-89	DIODE RD5.6ESB2	
C7065	1-164-222-91	CERAMIC CHIP 0.22UF	25V	D3009	8-719-929-15	DIODE HZS9.1NB2	
C7067	1-126-947-11	ELECT 47UF	20.00% 25V	D3011	8-719-929-15	DIODE HZS9.1NB2	
C7068	1-164-222-91	CERAMIC CHIP 0.22UF	25V	D3013	8-719-929-15	DIODE HZS9.1NB2	
C7069	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V	D3015	8-719-929-15	DIODE HZS9.1NB2	
C7070	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V	D3017	8-719-109-89	DIODE RD5.6ESB2	
C7071	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V	D3018	8-719-109-89	DIODE RD5.6ESB2	
< CONNECTOR >				D3019	8-719-929-15	DIODE HZS9.1NB2	
CN0101	1-823-330-11	CONNECTOR, BOARD TO BOARD 40P		D3021	8-719-929-15	DIODE HZS9.1NB2	
CN0102	*1-564-520-11	PLUG, CONNECTOR 5P		D3023	8-719-109-89	DIODE RD5.6ESB2	
CN0103	*1-564-507-11	PLUG, CONNECTOR 4P		D3024	8-719-929-15	DIODE HZS9.1NB2	
CN1000	1-770-130-11	CONNECTOR (SQUARE TYPE) 21P		D3026	8-719-929-15	DIODE HZS9.1NB2	
CN1001	1-766-296-21	CONNECTOR, DUAL SCART		D3028	8-719-929-15	DIODE HZS9.1NB2	
CN2000	*1-564-512-11	PLUG, CONNECTOR 9P		D3201	8-719-109-89	DIODE RD5.6ESB2	
CN2500	*1-564-506-11	PLUG, CONNECTOR 3P		D5103	8-719-110-88	DIODE RD39ES-B2	
CN2501	*1-564-507-11	PLUG, CONNECTOR 4P		D5104	8-719-109-89	DIODE RD5.6ESB2	
CN2502	*1-564-509-11	PLUG, CONNECTOR 6P		D5200	8-719-991-33	DIODE 1SS133T-77	
CN5002	*1-564-510-11	PLUG, CONNECTOR 7P		D5201	1-535-143-61	LEAD, JUMPER (5.0MM)	
CN5100	*1-564-506-11	PLUG, CONNECTOR 3P		D5202	8-719-050-38	DIODE M1MA152WK-T1	
CN5200	*1-564-506-11	PLUG, CONNECTOR 3P		D5300	8-719-081-97	DIODE MMDL914T1	
CN5801	*1-764-333-11	PLUG, CONNECTOR 10P		D5303	8-719-081-97	DIODE MMDL914T1	
CN6200	*1-564-507-11	PLUG, CONNECTOR 4P		D5304	8-719-081-97	DIODE MMDL914T1	
CN6202	*1-564-516-11	PLUG, CONNECTOR 13P		D5305	8-719-991-33	DIODE 1SS133T-77	
CN6203	1-695-915-11	TAB (CONTACT)		D5306	8-719-302-43	DIODE EL1Z	
CN7000	*1-564-508-11	PLUG, CONNECTOR 5P		D5307	8-719-987-87	DIODE ERA85-009	
CN7001	*1-564-512-11	PLUG, CONNECTOR 9P		D5308	8-719-081-97	DIODE MMDL914T1	
CN8001	1-766-281-11	PIN, CONNECTOR (PC BOARD) 8P		D5309	8-719-081-97	DIODE MMDL914T1	
< DIODE >				D5400	8-719-982-03	DIODE MTZJ-3.6A	
D0101	8-719-923-84	DIODE MTZJ-T-77-13B		D5401	8-719-050-38	DIODE M1MA152WK-T1	
D0104	8-719-109-89	DIODE RD5.6ESB2		D5404	8-719-110-41	DIODE RD15ES-B2	
D0110	8-719-109-89	DIODE RD5.6ESB2		D5405	8-719-908-03	DIODE GP08D	
D0111	8-719-929-15	DIODE HZS9.1NB2		D5807	8-719-929-15	DIODE HZS9.1NB2	
D0112	8-719-923-84	DIODE MTZJ-T-77-13B		D5809	8-719-050-38	DIODE M1MA152WK-T1	
D0113	8-719-921-88	DIODE MTZJ-13B		D5811	8-719-081-97	DIODE MMDL914T1	
D1006	8-719-109-89	DIODE RD5.6ESB2		D5812	8-719-081-97	DIODE MMDL914T1	
D2014	8-719-929-15	DIODE HZS9.1NB2		D6200	8-719-063-70	DIODE D1NL20U	
D2015	8-719-929-15	DIODE HZS9.1NB2		D7004	8-719-929-15	DIODE HZS9.1NB2	
D2016	8-719-050-38	DIODE M1MA152WK-T1		< FERRITE BEAD >			
D2018	8-719-929-15	DIODE HZS9.1NB2		FB3001	1-414-760-21	FERRITE 0UH	
D2019	8-719-929-15	DIODE HZS9.1NB2		< FILTER >			
D2500	8-719-050-38	DIODE M1MA152WK-T1		FL2000	1-239-803-11	FILTER, EMI	
D2502	8-719-109-89	DIODE RD5.6ESB2					
D2503	8-719-050-38	DIODE M1MA152WK-T1					

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
< IC >				L3008	1-216-295-91	SHORT	0
IC2000	6-701-031-01	IC MSP3411G-QA-B10		L3009	1-216-295-91	SHORT	0
IC2001	8-759-100-96	IC UPC4558G2		L3010	1-216-295-91	SHORT	0
IC2500	8-759-831-56	IC TDA7497		L3011	1-216-295-91	SHORT	0
IC3100	6-700-504-01	IC SDA9488X-B23GEG		L3012	1-216-295-91	SHORT	0
IC3200	6-700-505-01	IC VPS9402-A32GEG		L3105	1-412-006-31	INDUCTOR	10UH
IC5103	8-752-072-94	IC CXA1875AM-T4		L3106	1-412-006-31	INDUCTOR	10UH
IC5104	8-759-803-42	IC LA6500-FA		L3107	1-412-006-31	INDUCTOR	10UH
IC5200	8-759-595-52	IC CXA8070AP		L3200	1-412-006-31	INDUCTOR	10UH
IC5201	8-759-903-16	IC LM318P		L3202	1-412-006-31	INDUCTOR	10UH
IC5300	8-759-008-70	IC LM358N		L3203	1-412-006-31	INDUCTOR	10UH
IC5301	8-759-450-95	IC LM393N		L3206	1-412-006-31	INDUCTOR	10UH
IC5302	8-759-450-95	IC LM393N		L3208	1-412-006-31	INDUCTOR	10UH
IC5400	8-759-192-71	IC STV9379		L3300	1-412-006-31	INDUCTOR	10UH
IC6200	8-759-648-19	IC L7809CV/LSY		L5300	1-406-989-21	INDUCTOR	10MH
IC6201	8-759-648-20	IC L7805CV/LSY		L5301	1-406-989-21	INDUCTOR	10MH
IC6202	8-759-445-59	IC BA033T		L5400	1-412-524-11	INDUCTOR	8.2UH
IC6203	8-759-098-24	IC PQ30RV11		L5898	1-414-934-21	INDUCTOR	10UH
IC6205	8-759-394-35	IC BA12T		L5899	1-414-934-21	INDUCTOR	10UH
IC6206	8-759-991-41	IC LM78L05ACZ		L7001	1-414-934-21	INDUCTOR	10UH
IC6207	8-759-445-59	IC BA033T		L7009	1-414-934-21	INDUCTOR	10UH
IC7002	8-752-090-88	IC CXA2100AQ-TL		L7010	1-414-934-21	INDUCTOR	10UH
< JACK >				L7011	1-414-934-21	INDUCTOR	10UH
J2000	1-784-632-11	JACK, PIN 2P		L7012	1-414-934-21	INDUCTOR	10UH
< COIL >				< TRANSISTOR >			
L1000	1-216-809-11	RES-CHIP	100 5% 1/16W	Q1000	8-729-010-05	TRANSISTOR	MSB709-RT1
L1001	1-216-809-11	RES-CHIP	100 5% 1/16W	Q1001	8-729-010-29	TRANSISTOR	MSD601-RST1
L1002	1-414-934-21	INDUCTOR	10UH	Q1004	8-729-010-05	TRANSISTOR	MSB709-RT1
L1003	1-414-934-21	INDUCTOR	10UH	Q1005	8-729-421-19	TRANSISTOR	UN2213
L1005	1-414-934-21	INDUCTOR	10UH	Q1006	8-729-010-05	TRANSISTOR	MSB709-RT1
L2000	1-414-934-21	INDUCTOR	10UH	Q2000	8-729-010-29	TRANSISTOR	MSD601-RST1
L2001	1-414-934-21	INDUCTOR	10UH	Q2002	8-729-010-29	TRANSISTOR	MSD601-RST1
L2007	1-408-602-31	INDUCTOR	8.2UH	Q2003	8-729-010-29	TRANSISTOR	MSD601-RST1
L2008	1-216-295-91	SHORT	0	Q2004	8-729-010-29	TRANSISTOR	MSD601-RST1
L2009	1-216-295-91	SHORT	0	Q2005	8-729-010-29	TRANSISTOR	MSD601-RST1
L2010	1-414-928-21	INDUCTOR	1UH	Q2501	8-729-010-29	TRANSISTOR	MSD601-RST1
L2012	1-414-934-21	INDUCTOR	10UH	Q2502	8-729-010-29	TRANSISTOR	MSD601-RST1
L2013	1-414-928-21	INDUCTOR	1UH	Q2503	8-729-010-29	TRANSISTOR	MSD601-RST1
L2014	1-408-602-31	INDUCTOR	8.2UH	Q3200	8-729-010-29	TRANSISTOR	MSD601-RST1
L2500	1-535-143-61	LEAD, JUMPER	(5.0MM)	Q3201	8-729-010-29	TRANSISTOR	MSD601-RST1
L2501	1-535-143-61	LEAD, JUMPER	(5.0MM)	Q3202	8-729-010-05	TRANSISTOR	MSB709-RT1
L3000	1-216-295-91	SHORT	0	Q3204	8-729-010-05	TRANSISTOR	MSB709-RT1
L3004	1-216-295-91	SHORT	0	Q3300	8-729-010-29	TRANSISTOR	MSD601-RST1
L3005	1-216-295-91	SHORT	0	Q3301	8-729-010-05	TRANSISTOR	MSB709-RT1
L3006	1-216-295-91	SHORT	0	Q3302	8-729-010-05	TRANSISTOR	MSB709-RT1
L3007	1-216-295-91	SHORT	0	Q3500	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
				Q3501	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
				Q5101	8-729-010-29	TRANSISTOR	MSD601-RST1
				Q5200	8-729-010-29	TRANSISTOR	MSD601-RST1

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
Q5201	8-729-010-29	TRANSISTOR MSD601-RST1		R1004	1-216-864-11	SHORT	0
Q5202	8-729-045-04	TRANSISTOR 2SC5511		R1005	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q5203	8-729-044-59	TRANSISTOR 2SA1837 (LBS2SON)		R1006	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
Q5204	8-729-010-05	TRANSISTOR MSB709-RT1		R1007	1-414-813-11	FERRITE	00H
Q5205	8-729-010-05	TRANSISTOR MSB709-RT1		R1008	1-216-295-91	SHORT	0
Q5300	8-729-010-29	TRANSISTOR MSD601-RST1		R1009	1-216-295-91	SHORT	0
Q5301	8-729-053-33	TRANSISTOR IRF614-037		R1010	1-216-295-91	SHORT	0
Q5302	8-729-140-97	TRANSISTOR 2SB734-34		R1014	1-216-295-91	SHORT	0
Q5303	8-729-010-29	TRANSISTOR MSD601-RST1		R1017	1-216-822-11	RES-CHIP	1.2K 5% 1/16W
Q5304	8-729-010-29	TRANSISTOR MSD601-RST1		R1019	1-216-295-91	SHORT	0
Q5305	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1021	1-216-833-11	RES-CHIP	10K 5% 1/16W
Q5306	8-729-140-97	TRANSISTOR 2SB734-34		R1022	1-216-839-91	RES-CHIP	33K 5% 1/16W
Q5400	8-729-010-29	TRANSISTOR MSD601-RST1		R1023	1-216-849-11	RES-CHIP	220K 5% 1/16W
Q5401	8-729-421-19	TRANSISTOR UN2213		R1024	1-216-839-11	RES-CHIP	33K 5% 1/16W
Q5402	8-729-010-05	TRANSISTOR MSB709-RT1		R1025	1-216-837-11	RES-CHIP	22K 5% 1/16W
Q5403	8-729-421-19	TRANSISTOR UN2213		R1026	1-216-817-11	RES-CHIP	470 5% 1/16W
Q5404	8-729-039-68	TRANSISTOR IRF620		R2017	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q5813	8-729-421-19	TRANSISTOR UN2213		R2020	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q5814	8-729-010-05	TRANSISTOR MSB709-RT1		R2023	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q5815	8-729-010-29	TRANSISTOR MSD601-RST1		R2026	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q5816	8-729-010-05	TRANSISTOR MSB709-RT1		R2029	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q7003	8-729-010-29	TRANSISTOR MSD601-RST1		R2032	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q7009	8-729-010-05	TRANSISTOR MSB709-RT1		R2035	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q7011	8-729-010-05	TRANSISTOR MSB709-RT1		R2038	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q7012	8-729-010-05	TRANSISTOR MSB709-RT1		R2041	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q7013	8-729-010-29	TRANSISTOR MSD601-RST1		R2043	1-216-829-91	RES-CHIP	4.7K 5% 1/16W
Q7014	8-729-010-05	TRANSISTOR MSB709-RT1		R2044	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q7015	8-729-010-05	TRANSISTOR MSB709-RT1		R2047	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q7016	8-729-010-29	TRANSISTOR MSD601-RST1		R2048	1-216-837-11	RES-CHIP	22K 5% 1/16W
Q7017	8-729-010-05	TRANSISTOR MSB709-RT1		R2050	1-216-845-11	RES-CHIP	100K 5% 1/16W
Q7018	8-729-010-05	TRANSISTOR MSB709-RT1		R2051	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q7019	8-729-010-29	TRANSISTOR MSD601-RST1		R2052	1-216-837-11	RES-CHIP	22K 5% 1/16W
< RESISTOR >				R2053	1-216-817-11	RES-CHIP	470 5% 1/16W
JR101	1-216-295-91	SHORT	0	R2054	1-216-049-11	RES-CHIP	1K 5% 1/10W
JR105	1-216-295-91	SHORT	0	R2055	1-216-049-11	RES-CHIP	1K 5% 1/10W
JR134	1-216-295-91	SHORT	0	R2057	1-216-025-11	RES-CHIP	100 5% 1/10W
JR2000	1-216-295-91	SHORT	0	R2058	1-216-025-11	RES-CHIP	100 5% 1/10W
JR2001	1-216-295-91	SHORT	0	R2059	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R0101	1-216-833-11	RES-CHIP	10K 5% 1/16W	R2060	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R0102	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	R2061	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R0103	1-216-073-91	RES-CHIP	10K 5% 1/10W	R2062	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R0104	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	R2063	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R0105	1-216-025-11	RES-CHIP	100 5% 1/10W	R2064	1-247-847-91	CARBON	4.7K 5% 1/4W
R0107	1-216-025-11	RES-CHIP	100 5% 1/10W	R2065	1-216-837-11	RES-CHIP	22K 5% 1/16W
R1000	1-216-049-11	RES-CHIP	1K 5% 1/10W	R2066	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R1001	1-216-001-00	RES-CHIP	10 5% 1/10W	R2067	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R1002	1-216-821-11	RES-CHIP	1K 5% 1/16W	R2068	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1003	1-216-864-11	SHORT	0	R2069	1-216-837-11	RES-CHIP	22K 5% 1/16W
				R2070	1-216-833-11	RES-CHIP	10K 5% 1/16W
				R2071	1-216-839-91	RES-CHIP	33K 5% 1/16W

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R2072	1-216-049-91	RES-CHIP	1K 5% 1/10W	R3001	1-216-022-00	RES-CHIP	75 5% 1/10W
R2073	1-216-049-91	RES-CHIP	1K 5% 1/10W	R3009	1-216-025-11	RES-CHIP	100 5% 1/10W
R2074	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3010	1-216-022-00	RES-CHIP	75 5% 1/10W
R2075	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3011	1-216-025-11	RES-CHIP	100 5% 1/10W
R2076	1-216-839-91	RES-CHIP	33K 5% 1/16W	R3012	1-216-022-00	RES-CHIP	75 5% 1/10W
R2077	1-216-049-11	RES-CHIP	1K 5% 1/10W	R3013	1-216-025-11	RES-CHIP	100 5% 1/10W
R2078	1-216-025-11	RES-CHIP	100 5% 1/10W	R3014	1-216-022-00	RES-CHIP	75 5% 1/10W
R2079	1-216-049-11	RES-CHIP	1K 5% 1/10W	R3015	1-216-022-00	RES-CHIP	75 5% 1/10W
R2080	1-216-831-11	RES-CHIP	6.8K 5% 1/16W	R3016	1-216-025-11	RES-CHIP	100 5% 1/10W
R2081	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3017	1-216-022-00	RES-CHIP	75 5% 1/10W
R2083	1-216-817-11	RES-CHIP	470 5% 1/16W	R3018	1-216-025-11	RES-CHIP	100 5% 1/10W
R2084	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3019	1-216-022-00	RES-CHIP	75 5% 1/10W
R2085	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3020	1-216-025-11	RES-CHIP	100 5% 1/10W
R2086	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3021	1-216-022-00	RES-CHIP	75 5% 1/10W
R2087	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3022	1-216-025-11	RES-CHIP	100 5% 1/10W
R2088	1-216-041-00	RES-CHIP	470 5% 1/10W	R3023	1-216-022-00	RES-CHIP	75 5% 1/10W
R2089	1-216-041-00	RES-CHIP	470 5% 1/10W	R3024	1-216-025-11	RES-CHIP	100 5% 1/10W
R2092	1-216-039-00	RES-CHIP	390 5% 1/10W	R3025	1-216-022-00	RES-CHIP	75 5% 1/10W
R2093	1-216-039-00	RES-CHIP	390 5% 1/10W	R3026	1-216-022-00	RES-CHIP	75 5% 1/10W
R2094	1-216-039-00	RES-CHIP	390 5% 1/10W	R3027	1-216-025-11	RES-CHIP	100 5% 1/10W
R2095	1-216-039-00	RES-CHIP	390 5% 1/10W	R3028	1-216-022-00	RES-CHIP	75 5% 1/10W
R2096	1-216-039-00	RES-CHIP	390 5% 1/10W	R3029	1-216-045-00	RES-CHIP	680 5% 1/10W
R2097	1-216-039-00	RES-CHIP	390 5% 1/10W	R3030	1-216-022-00	RES-CHIP	75 5% 1/10W
R2098	1-216-049-11	RES-CHIP	1K 5% 1/10W	R3031	1-216-022-00	RES-CHIP	75 5% 1/10W
R2099	1-216-049-11	RES-CHIP	1K 5% 1/10W	R3032	1-216-022-00	RES-CHIP	75 5% 1/10W
R2500	1-216-073-91	RES-CHIP	10K 5% 1/10W	R3033	1-216-025-11	RES-CHIP	100 5% 1/10W
R2502	1-208-810-11	METAL CHIP	15K 0.5% 1/10W	R3034	1-216-022-00	RES-CHIP	75 5% 1/10W
R2503	1-208-810-11	METAL CHIP	15K 0.5% 1/10W	R3035	1-216-025-11	RES-CHIP	100 5% 1/10W
R2504	1-216-049-11	RES-CHIP	1K 5% 1/10W	R3036	1-216-022-00	RES-CHIP	75 5% 1/10W
R2507	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3037	1-216-045-00	RES-CHIP	680 5% 1/10W
R2509	1-249-417-11	CARBON	1K 5% 1/4W	R3104	1-216-295-91	SHORT	0
R2511	1-216-073-91	RES-CHIP	10K 5% 1/10W	R3110	1-216-025-11	RES-CHIP	100 5% 1/10W
R2515	1-216-073-91	RES-CHIP	10K 5% 1/10W	R3111	1-216-025-11	RES-CHIP	100 5% 1/10W
R2516	1-216-089-91	RES-CHIP	47K 5% 1/10W	R3112	1-216-295-91	SHORT	0
R2517	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3218	1-216-821-11	RES-CHIP	1K 5% 1/16W
R2518	1-216-049-11	RES-CHIP	1K 5% 1/10W	R3219	1-216-821-11	RES-CHIP	1K 5% 1/16W
R2519	1-216-857-11	RES-CHIP	1M 5% 1/16W	R3220	1-216-837-11	RES-CHIP	22K 5% 1/16W
R2520	1-216-025-11	RES-CHIP	100 5% 1/10W	R3221	1-216-837-11	RES-CHIP	22K 5% 1/16W
R2912	1-216-295-91	SHORT	0	R3222	1-216-837-11	RES-CHIP	22K 5% 1/16W
R2914	1-216-853-11	RES-CHIP	470K 5% 1/16W	R3223	1-216-837-11	RES-CHIP	22K 5% 1/16W
R2921	1-216-295-91	SHORT	0	R3225	1-216-025-11	RES-CHIP	100 5% 1/10W
R2924	1-216-295-91	SHORT	0	R3226	1-216-025-11	RES-CHIP	100 5% 1/10W
R2927	1-216-295-91	SHORT	0	R3229	1-216-025-91	RES-CHIP	100 5% 1/10W
R2930	1-216-295-91	SHORT	0	R3230	1-216-025-11	RES-CHIP	100 5% 1/10W
R2933	1-216-295-91	SHORT	0	R3233	1-216-821-11	RES-CHIP	1K 5% 1/16W
R2936	1-216-295-91	SHORT	0	R3234	1-216-821-11	RES-CHIP	1K 5% 1/16W
R2939	1-216-295-91	SHORT	0	R3235	1-216-822-11	RES-CHIP	1.2K 5% 1/16W
R2942	1-216-295-91	SHORT	0	R3236	1-216-822-11	RES-CHIP	1.2K 5% 1/16W
R2945	1-216-295-91	SHORT	0	R3237	1-216-797-11	RES-CHIP	10 5% 1/16W
R3000	1-216-025-11	RES-CHIP	100 5% 1/10W	R3238	1-216-797-11	RES-CHIP	10 5% 1/16W

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R3305	1-216-025-11	RES-CHIP	100 5% 1/10W	R5210	1-216-845-11	RES-CHIP	100K 5% 1/16W
R3306	1-216-025-11	RES-CHIP	100 5% 1/10W	R5211	1-216-845-11	RES-CHIP	100K 5% 1/16W
R3312	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R5214	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R3313	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R5215	1-216-025-11	RES-CHIP	100 5% 1/10W
R3318	1-216-025-11	RES-CHIP	100 5% 1/10W	R5217	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3319	1-216-025-11	RES-CHIP	100 5% 1/10W	R5218	1-260-321-51	CARBON	270 5% 1/2W
R3320	1-216-025-11	RES-CHIP	100 5% 1/10W	R5219	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R3321	1-216-864-11	SHORT	0	R5220	1-215-886-11	METAL OXIDE	100 5% 2W
R3322	1-216-864-11	SHORT	0	R5222	1-216-678-11	METAL CHIP	13K 0.5% 1/10W
R3323	1-216-813-11	RES-CHIP	220 5% 1/16W	R5223	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
R3500	1-216-834-91	RES-CHIP	12K 5% 1/16W	R5225	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3501	1-216-834-91	RES-CHIP	12K 5% 1/16W	R5226	1-212-849-00	FUSIBLE	4.7 5% 1/4W
R3504	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R5227	1-216-049-11	RES-CHIP	1K 5% 1/10W
R3505	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R5228	1-216-049-11	RES-CHIP	1K 5% 1/10W
R3603	1-216-295-91	SHORT	0	R5229	1-216-837-11	RES-CHIP	22K 5% 1/16W
R5118	1-249-413-11	CARBON	470 5% 1/4W	R5230	1-216-677-11	METAL CHIP	12K 0.5% 1/10W
R5119	1-216-840-11	RES-CHIP	39K 5% 1/16W	R5231	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R5122	1-216-821-11	RES-CHIP	1K 5% 1/16W	R5232	1-216-845-11	RES-CHIP	100K 5% 1/16W
R5125	1-216-836-11	RES-CHIP	18K 5% 1/16W	R5233	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R5126	1-249-413-11	CARBON	470 5% 1/4W	R5234	1-216-833-11	RES-CHIP	10K 5% 1/16W
R5128	1-216-809-11	RES-CHIP	100 5% 1/16W	R5235	1-216-833-11	RES-CHIP	10K 5% 1/16W
R5129	1-216-809-11	RES-CHIP	100 5% 1/16W	R5237	1-216-049-11	RES-CHIP	1K 5% 1/10W
R5130	1-216-809-11	RES-CHIP	100 5% 1/16W	R5238	1-216-393-00	METAL OXIDE	2.2 5% 3W
R5131	1-216-821-11	RES-CHIP	1K 5% 1/16W	R5239	1-208-848-11	METAL CHIP	560K 0.5% 1/10W
R5132	1-216-809-11	RES-CHIP	100 5% 1/16W	R5241	1-216-841-11	RES-CHIP	47K 5% 1/16W
R5133	1-216-809-11	RES-CHIP	100 5% 1/16W	R5300	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R5137	1-216-809-11	RES-CHIP	100 5% 1/16W	R5301	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R5138	1-216-809-11	RES-CHIP	100 5% 1/16W	R5302	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R5139	1-216-821-11	RES-CHIP	1K 5% 1/16W	R5303	1-208-816-11	METAL CHIP	27K 0.5% 1/10W
R5140	1-216-821-11	RES-CHIP	1K 5% 1/16W	R5304	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R5141	1-216-833-11	RES-CHIP	10K 5% 1/16W	R5305	*1-208-852-11	METAL CHIP	820K 0.5% 1/10W
R5143	1-216-833-11	RES-CHIP	10K 5% 1/16W	R5306	1-208-803-11	METAL CHIP	7.5K 0.5% 1/10W
R5144	1-216-821-11	RES-CHIP	1K 5% 1/16W	R5307	1-216-041-00	RES-CHIP	470 5% 1/10W
R5145	1-216-809-11	RES-CHIP	100 5% 1/16W	R5308	1-216-295-91	SHORT	0
R5147	1-216-809-11	RES-CHIP	100 5% 1/16W	R5309	1-208-824-91	RES-CHIP	56K 0.5% 1/10W
R5150	1-249-414-11	CARBON	560 5% 1/4W	R5310	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R5151	1-249-454-11	CARBON	3.9 5% 1/4W	R5311	1-216-045-00	RES-CHIP	680 5% 1/10W
R5152	1-249-413-11	CARBON	470 5% 1/4W	R5312	1-208-832-11	METAL CHIP	120K 0.5% 1/10W
R5153	1-249-393-11	CARBON	10 5% 1/4W	R5314	1-208-840-11	METAL CHIP	270K 0.5% 1/10W
R5154	1-216-833-91	RES-CHIP	10K 5% 1/16W	R5315	1-216-043-91	RES-CHIP	560 5% 1/10W
R5155	1-249-421-11	CARBON	2.2K 5% 1/4W	R5316	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R5156	1-216-833-11	RES-CHIP	10K 5% 1/16W	R5317	1-216-845-11	RES-CHIP	100K 5% 1/16W
R5157	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R5318	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R5201	1-216-061-91	RES-CHIP	3.3K 5% 1/10W	R5319	1-208-840-11	METAL CHIP	270K 0.5% 1/10W
R5203	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R5320	1-216-833-11	RES-CHIP	10K 5% 1/16W
R5204	1-216-809-11	RES-CHIP	100 5% 1/16W	R5321	1-216-837-11	RES-CHIP	22K 5% 1/16W
R5206	1-216-061-91	RES-CHIP	3.3K 5% 1/10W	R5322	1-216-820-11	RES-CHIP	820 5% 1/16W
R5207	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R5324	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R5208	1-212-849-00	FUSIBLE	4.7 5% 1/4W	R5325	1-208-812-11	METAL CHIP	18K 0.5% 1/10W
R5209	1-216-809-11	RES-CHIP	100 5% 1/16W	R5326	1-216-845-11	RES-CHIP	100K 5% 1/16W

REF.NO.	PART.NO	DESCRIPTION	REMARK			REF.NO.	PART.NO	DESCRIPTION	REMARK		
R5327	1-216-472-00	METAL OXIDE	39	5%	3W	R5881	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5328	1-216-033-00	RES-CHIP	220	5%	1/10W	R5882	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5331	1-216-033-00	RES-CHIP	220	5%	1/10W	R5883	1-216-859-11	RES-CHIP	1.5M	5%	1/16W
R5332	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R5884	1-216-841-11	RES-CHIP	47K	5%	1/16W
R5333	1-208-820-91	METAL CHIP	39K	0.5%	1/10W	R5885	1-216-809-11	RES-CHIP	100	5%	1/16W
R5334	1-208-834-91	METAL CHIP	150K	0.5%	1/10W	R5887	1-216-809-11	RES-CHIP	100	5%	1/16W
R5335	1-208-818-11	METAL CHIP	33K	0.5%	1/10W	R5888	1-216-809-11	RES-CHIP	100	5%	1/16W
R5336	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5889	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5337	1-216-831-11	RES-CHIP	6.8K	5%	1/16W	R5892	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5338	1-247-823-91	CARBON	470	5%	1/4W	R5895	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5340	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5898	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R5341	1-216-089-91	RES-CHIP	47K	5%	1/10W	R5899	1-216-863-11	RES-CHIP	3.3M	5%	1/16W
R5342	1-208-818-11	METAL CHIP	33K	0.5%	1/10W	R6200	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R5343	1-208-808-11	METAL CHIP	12K	0.5%	1/10W	R6201	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R5344	1-208-820-11	METAL CHIP	39K	0.5%	1/10W	R7007	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5345	1-208-832-11	METAL CHIP	120K	0.5%	1/10W	R7018	1-216-025-11	RES-CHIP	100	5%	1/10W
R5346	1-216-849-11	RES-CHIP	220K	5%	1/16W	R7023	1-216-834-11	RES-CHIP	12K	5%	1/16W
R5400	1-216-849-11	RES-CHIP	220K	5%	1/16W	R7034	1-216-025-11	RES-CHIP	100	5%	1/10W
R5401	1-216-837-11	RES-CHIP	22K	5%	1/16W	R7035	1-216-025-11	RES-CHIP	100	5%	1/10W
R5402	1-216-081-00	RES-CHIP	22K	5%	1/10W	R7048	1-216-025-11	RES-CHIP	100	5%	1/10W
R5403	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R7050	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5404	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R7051	1-216-025-11	RES-CHIP	100	5%	1/10W
R5405	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R7052	1-216-025-11	RES-CHIP	100	5%	1/10W
R5407	1-216-857-11	RES-CHIP	1M	5%	1/16W	R7053	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5408	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R7054	1-216-847-11	RES-CHIP	150K	5%	1/16W
R5409	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W	R7056	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R5410	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R7057	1-216-842-11	RES-CHIP	56K	5%	1/16W
R5411	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R7058	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5413	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W	R7065	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5414	1-249-383-11	CARBON	1.5	5%	1/4W	R7066	1-216-809-11	RES-CHIP	100	5%	1/16W
R5415	1-249-389-11	CARBON	4.7	5%	1/4W	R7067	1-216-295-91	SHORT	0		
R5416	1-215-888-00	METAL OXIDE	220	5%	2W	R7068	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R5417	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R7070	1-216-817-11	RES-CHIP	470	5%	1/16W
R5420	1-214-798-21	METAL	1.8	1%	1/2W	R7071	1-216-817-11	RES-CHIP	470	5%	1/16W
R5421	1-214-798-21	METAL	1.8	1%	1/2W	R7072	1-216-817-11	RES-CHIP	470	5%	1/16W
R5803	1-216-861-11	RES-CHIP	2.2M	5%	1/16W	R7073	1-216-041-00	RES-CHIP	470	5%	1/10W
R5804	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7074	1-216-043-91	RES-CHIP	560	5%	1/10W
R5805	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7075	1-216-817-11	RES-CHIP	470	5%	1/16W
R5806	1-216-089-91	RES-CHIP	47K	5%	1/10W	R7076	1-216-041-00	RES-CHIP	470	5%	1/10W
R5807	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7077	1-216-043-91	RES-CHIP	560	5%	1/10W
R5808	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7078	1-216-817-11	RES-CHIP	470	5%	1/16W
R5809	1-216-073-91	RES-CHIP	10K	5%	1/10W	R7079	1-216-041-00	RES-CHIP	470	5%	1/10W
R5865	1-216-841-11	RES-CHIP	47K	5%	1/16W	R7080	1-216-043-91	RES-CHIP	560	5%	1/10W
R5869	1-216-817-11	RES-CHIP	470	5%	1/16W	R7081	1-216-817-11	RES-CHIP	470	5%	1/16W
R5871	1-216-850-11	RES-CHIP	270K	5%	1/16W	R7082	1-216-821-11	RES-CHIP	1K	5%	1/16W
R5875	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R7087	1-216-833-11	RES-CHIP	10K	5%	1/16W
R5877	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R7088	1-216-821-91	RES-CHIP	1K	5%	1/16W
R5878	1-216-295-91	SHORT	0			R7089	1-216-819-11	RES-CHIP	680	5%	1/16W
R5879	1-216-809-11	RES-CHIP	100	5%	1/16W	R7090	1-216-819-11	RES-CHIP	680	5%	1/16W
R5880	1-216-809-11	RES-CHIP	100	5%	1/16W	R7091	1-216-819-11	RES-CHIP	680	5%	1/16W

A

M

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R7096	1-216-803-11	RES-CHIP 33 5%	1/16W	FB0006	1-216-864-11	SHORT 0	
R7097	1-216-803-11	RES-CHIP 33 5%	1/16W	FB0007	1-216-295-91	SHORT 0	
R7098	1-216-803-11	RES-CHIP 33 5%	1/16W	FB0008	1-216-295-91	SHORT 0	
< VARIABLE RESISTOR >				FB0009	1-412-006-31	INDUCTOR 10UH	
				FB0010	1-216-295-91	SHORT 0	
RV5101	1-238-600-11	RES, ADJ, CARBON 10.0K		FB0011	1-412-006-31	INDUCTOR 10UH	
< TUNER >				FB0012	1-216-295-91	SHORT 0	
				FB0015	1-216-864-11	SHORT 0	
TU1000	8-598-533-01	FRONTEND BTF-EC411		FB0016	1-216-864-11	SHORT 0	
				FB0017	1-216-295-91	SHORT 0	
< CRYSTAL >				FB0018	1-216-295-91	SHORT 0	
X2000	1-760-628-11	VIBRATOR, CRYSTAL		FB0019	1-216-295-91	SHORT 0	
X3200	1-781-946-21	VIBRATOR, CRYSTAL		FB0020	1-216-295-91	SHORT 0	
X5800	1-767-127-11	VIBRATOR, CERAMIC		< IC >			
*A-1634-062-A M Board, Complete				IC0001	8-759-699-33	IC M24C16-MN6T(A)	
< CAPACITOR >				IC0002	6-700-502-01	IC SAA5665HL/M1D/0358	
				IC0003	8-759-672-39	IC PST573IMT	
C0001	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	IC0004	8-759-665-11	IC LM393DT	
C0002	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V	IC0005	6-700-132-01	IC K6T2008V2A-YF70T00	
C0004	1-165-128-11	CERAMIC CHIP 0.22UF	16V	< TRANSISTOR >			
C0006	1-126-947-11	ELECT 47UF	20.00% 25V	Q0002	8-729-424-08	TRANSISTOR UN2111	
C0007	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	Q0003	8-729-424-08	TRANSISTOR UN2111	
C0008	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	Q0006	8-729-010-29	TRANSISTOR MSD601-RST1	
C0009	1-165-128-11	CERAMIC CHIP 0.22UF	16V	Q0007	8-729-027-44	TRANSISTOR DTC114TKA-T146	
C0010	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	Q0008	8-729-027-44	TRANSISTOR DTC114TKA-T146	
C0011	1-165-128-11	CERAMIC CHIP 0.22UF	16V	Q0009	8-729-027-44	TRANSISTOR DTC114TKA-T146	
C0012	1-162-924-11	CERAMIC CHIP 56PF	5.00% 50V	Q0010	8-729-027-44	TRANSISTOR DTC114TKA-T146	
C0013	1-165-128-11	CERAMIC CHIP 0.22UF	16V	Q0011	8-729-010-29	TRANSISTOR MSD601-RST1	
C0015	1-135-834-91	CERAMIC CHIP 2.2E+06PF	6.3V	Q0012	8-729-424-08	TRANSISTOR UN2111	
C0016	1-165-128-11	CERAMIC CHIP 0.22UF	16V	Q0013	8-729-421-22	TRANSISTOR UN2211	
C0017	1-162-924-11	CERAMIC CHIP 56PF	5.00% 50V	< RESISTOR >			
C0019	1-165-128-11	CERAMIC CHIP 0.22UF	16V	R0001	1-216-045-00	RES-CHIP 680 5%	1/10W
C0025	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	R0002	1-216-055-00	RES-CHIP 1.8K 5%	1/10W
C0026	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	R0003	1-216-295-91	SHORT 0	
C0027	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	R0011	1-216-295-91	SHORT 0	
C0028	1-126-947-11	ELECT 47UF	20.00% 25V	R0014	1-216-081-91	RES-CHIP 22K 5%	1/10W
< CONNECTOR >				R0016	1-216-025-11	RES-CHIP 100 5%	1/10W
CN0001	1-793-497-11	CONNECTOR, BOARD TO BOARD 40P		R0017	1-216-093-91	RES-CHIP 68K 5%	1/10W
< DIODE >				R0018	1-216-025-11	RES-CHIP 100 5%	1/10W
D0001	8-719-992-02	DIODE RB705D		R0019	1-216-025-11	RES-CHIP 100 5%	1/10W
D0301	8-719-069-56	DIODE UDZSTE-176.2B		R0020	1-216-049-11	RES-CHIP 1K 5%	1/10W
< FERRITE BEAD >				R0022	1-216-809-11	RES-CHIP 100 5%	1/16W
FB0003	1-216-295-91	SHORT 0		R0023	1-216-097-11	RES-CHIP 100K 5%	1/10W
FB0004	1-412-006-41	INDUCTOR 10UH		R0027	1-216-821-11	RES-CHIP 1K 5%	1/16W
FB0005	1-216-864-11	SHORT 0		R0028	1-216-809-11	RES-CHIP 100 5%	1/16W
				R0029	1-216-025-11	RES-CHIP 100 5%	1/10W
				R0030	1-216-025-11	RES-CHIP 100 5%	1/10W

M

G

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	REF.NO.	PART.NO	DESCRIPTION	REMARK
R0032	1-216-809-11	RES-CHIP	100 5% 1/16W	< CRYSTAL >			
R0033	1-216-809-11	RES-CHIP	100 5% 1/16W	X0001	1-578-774-11	VIBRATOR, CRYSTAL	
R0034	1-218-725-11	RES-CHIP	24K 5% 1/16W	*A-1637-024-A G Board, Complete			
R0035	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	4-382-854-01 SCREW (M3X8) , P, SW (+)			
R0037	1-216-061-91	RES-CHIP	3.3K 5% 1/10W	< CAPACITOR >			
R0039	1-216-809-11	RES-CHIP	100 5% 1/16W	C6001	Δ 1-137-999-11	FILM 0.1UF	275V
R0040	1-216-809-11	RES-CHIP	100 5% 1/16W	C6002	Δ 1-137-999-11	FILM 0.1UF	275V
R0041	1-216-057-91	RES-CHIP	2.2K 5% 1/10W	C6003	Δ 1-119-887-51	CERAMIC 1000PF	20.00% 250V
R0042	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	C6004	Δ 1-119-887-51	CERAMIC 1000PF	20.00% 250V
R0043	1-216-803-11	RES-CHIP	33 5% 1/16W	C6005	1-126-965-91	ELECT 22UF	20.00% 50V
R0044	1-216-025-11	RES-CHIP	100 5% 1/10W	C6006	1-117-753-11	ELECT (BLOCK) 470UF	20.00% 450V
R0045	1-216-803-11	RES-CHIP	33 5% 1/16W	C6007	1-126-964-11	ELECT 10UF	20.00% 50V
R0046	1-216-803-11	RES-CHIP	33 5% 1/16W	C6008	1-126-963-11	ELECT 4.7UF	20.00% 50V
R0047	1-216-810-11	RES-CHIP	120 5% 1/16W	C6010	1-136-165-00	FILM 0.1UF	5.00% 50V
R0048	1-216-809-11	RES-CHIP	100 5% 1/16W	C6011	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
R0049	1-216-073-91	RES-CHIP	10K 5% 1/10W	C6012	1-161-830-00	CERAMIC 0.0047UF	500V
R0050	1-216-810-11	RES-CHIP	120 5% 1/16W	C6013	1-161-830-00	CERAMIC 0.0047UF	500V
R0051	1-216-835-91	RES-CHIP	15K 5% 1/16W	C6015	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
R0052	1-216-810-11	RES-CHIP	120 5% 1/16W	C6016	1-161-830-00	CERAMIC 0.0047UF	500V
R0053	1-216-809-11	RES-CHIP	100 5% 1/16W	C6017	1-161-830-00	CERAMIC 0.0047UF	500V
R0054	1-216-809-11	RES-CHIP	100 5% 1/16W	C6018	1-126-949-11	ELECT 220UF	20.00% 35V
R0055	1-216-809-11	RES-CHIP	100 5% 1/16W	C6019	1-164-645-11	CERAMIC 1000PF	10.00% 500V
R0056	1-216-833-11	RES-CHIP	10K 5% 1/16W	C6020	1-135-946-21	FILM 47000PF	3% 800V
R0057	1-216-809-11	RES-CHIP	100 5% 1/16W	C6021	1-164-645-11	CERAMIC 1000PF	10.00% 500V
R0058	1-216-823-91	RES-CHIP	1.5K 5% 1/16W	C6022	1-126-963-11	ELECT 4.7UF	20.00% 50V
R0059	1-216-841-11	RES-CHIP	47K 5% 1/16W	C6023	1-110-626-11	ELECT 330UF	20.00% 160V
R0060	1-216-833-11	RES-CHIP	10K 5% 1/16W	C6024	1-164-625-91	CERAMIC CHIP 680PF	10.00% 500V
R0061	1-216-833-11	RES-CHIP	10K 5% 1/16W	C6026	1-164-625-91	CERAMIC CHIP 680PF	10.00% 500V
R0062	1-216-833-11	RES-CHIP	10K 5% 1/16W	C6027	1-164-625-91	CERAMIC CHIP 680PF	10.00% 500V
R0063	1-216-073-91	RES-CHIP	10K 5% 1/10W	C6028	1-128-548-11	ELECT 4700UF	20.00% 25V
R0065	1-216-073-91	RES-CHIP	10K 5% 1/10W	C6029	1-126-939-11	ELECT 10000UF	20.00% 16V
R0066	1-216-833-11	RES-CHIP	10K 5% 1/16W	C6030	1-119-940-51	ELECT 4700UF	20.00% 50V
R0067	1-216-833-11	RES-CHIP	10K 5% 1/16W	C6031	1-535-143-61	LEAD, JUMPER (5.0MM)	
R0068	1-216-833-11	RES-CHIP	10K 5% 1/16W	C6032	1-161-744-00	CERAMIC 0.01UF	400V
R0069	1-216-073-91	RES-CHIP	10K 5% 1/10W	C6033	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
R0070	1-216-025-11	RES-CHIP	100 5% 1/10W	C6035	1-136-165-00	FILM 0.1UF	5.00% 50V
R0071	1-216-809-11	RES-CHIP	100 5% 1/16W	C6036	1-136-479-11	FILM 0.001UF	2.00% 50V
R0072	1-216-809-11	RES-CHIP	100 5% 1/16W	C6037	1-126-947-11	ELECT 47UF	20.00% 25V
R0073	1-216-809-11	RES-CHIP	100 5% 1/16W	C6040	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
R0074	1-216-809-11	RES-CHIP	100 5% 1/16W	C6045	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
R0075	1-216-025-11	RES-CHIP	100 5% 1/10W	C6102	1-126-943-11	ELECT 2200UF	20.00% 25V
R0076	1-216-049-11	RES-CHIP	1K 5% 1/10W	C6103	1-126-971-11	ELECT 470UF	20.00% 50V
R0078	1-216-041-00	RES-CHIP	470 5% 1/10W	C6105	1-126-964-11	ELECT 10UF	20.00% 50V
R0079	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C6106	1-126-964-11	ELECT 10UF	20.00% 50V
R0301	1-216-073-91	RES-CHIP	10K 5% 1/10W				
R0302	1-216-073-91	RES-CHIP	10K 5% 1/10W				
R0303	1-216-836-11	RES-CHIP	18K 5% 1/16W				
R0304	1-216-831-11	RES-CHIP	6.8K 5% 1/16W				

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
< CONNECTOR >				< PHOTO COUPLER >			
CN6001	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		PH6001	Δ 8-749-016-21	IC TCET1103G	
CN6002	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		< TRANSISTOR >			
CN6003	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		Q6003	8-729-010-29	TRANSISTOR MSD601-RST1	
CN6004	*1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P		Q6005	8-729-029-56	TRANSISTOR DTA144ESA	
CN6005	*1-564-509-11	PLUG, CONNECTOR 6P		Q6006	8-729-056-60	TRANSISTOR SPA07N60C2	
CN6006	*1-564-516-11	PLUG, CONNECTOR 13P		Q6007	8-729-056-60	TRANSISTOR SPA07N60C2	
CN6008	*1-564-507-11	PLUG, CONNECTOR 4P		Q6010	8-729-119-78	TRANSISTOR 2SC2785-HFE	
< DIODE >				Q6101	8-729-029-56	TRANSISTOR DTA144ESA	
D6001	8-719-085-11	DIODE GSIB460/45		Q6102	8-729-010-29	TRANSISTOR MSD601-RST1	
D6002	8-719-982-26	DIODE MTZJ-33B		Q6103	8-729-029-56	TRANSISTOR DTA144ESA	
D6004	8-719-979-64	DIODE UF4005PKG23		Q6104	8-729-010-29	TRANSISTOR MSD601-RST1	
D6006	8-719-081-97	DIODE MMDL914T1		Q6105	8-729-010-29	TRANSISTOR MSD601-RST1	
D6007	8-719-081-97	DIODE MMDL914T1		< RESISTOR >			
D6008	8-719-063-70	DIODE D1NL20U		R6003	1-202-933-61	FUSIBLE 0.1 10% 1/2W	
D6009	8-719-110-41	DIODE RD15ES-B2		R6004	1-205-998-11	CEMENTED 1 5% 10W	
D6010	8-719-085-24	DIODE FB1U4D7M1-B		R6005	1-205-998-11	CEMENTED 1 5% 10W	
D6016	8-719-309-99	DIODE RBV-406B		R6006	1-205-998-11	CEMENTED 1 5% 10W	
D6031	8-719-022-98	DIODE D2S4MTA1		R6007	1-243-979-21	METAL OXIDE 0.1 5% 2W	
D6032	8-719-022-97	DIODE D2S4MTA1		R6008	1-243-979-21	METAL OXIDE 0.1 5% 2W	
D6033	8-719-022-97	DIODE D2S4MTA1		R6009	1-208-810-11	METAL CHIP 15K 0.5% 1/10W	
D6034	8-719-022-97	DIODE D2S4MTA1		R6010	1-215-481-00	METAL 330K 1% 1/4W	
D6101	8-719-081-97	DIODE MMDL914T1		R6013	Δ 1-218-265-21	FILM 8.2M 5% 1W	
D6102	8-719-511-40	DIODE S1VB40		R6014	1-215-926-00	METAL OXIDE 33K 5% 3W	
D6103	8-719-081-97	DIODE MMDL914T1		R6015	1-208-757-11	METAL CHIP 91 0.5% 1/10W	
D6104	8-719-081-97	DIODE MMDL914T1		R6016	1-216-821-11	RES-CHIP 1K 5% 1/16W	
D6105	8-719-081-97	DIODE MMDL914T1		R6017	1-216-833-11	RES-CHIP 10K 5% 1/16W	
D6106	8-719-081-97	DIODE MMDL914T1		R6018	1-247-895-91	CARBON 470K 5% 1/4W	
D6107	8-719-081-97	DIODE MMDL914T1		R6019	1-247-891-00	CARBON 330K 5% 1/4W	
< FERRITE BEAD >				R6020	1-216-820-11	RES-CHIP 820 5% 1/16W	
FB6002	1-410-397-21	FERRITE 1.1UH		R6021	1-216-362-11	METAL OXIDE 0.27 5% 2W	
FB6003	1-410-397-21	FERRITE 1.1UH		R6022	1-216-833-11	RES-CHIP 10K 5% 1/16W	
< IC >				R6024	1-211-964-91	RES-CHIP 33 0.5% 1/10W	
IC6001	8-759-670-30	IC MC23001D		R6029	1-216-833-11	RES-CHIP 10K 5% 1/16W	
IC6003	8-749-016-19	IC SE135N-LF4		R6030	1-216-817-11	RES-CHIP 470 5% 1/16W	
< COIL >				R6032	1-249-417-11	CARBON 1K 5% 1/4W	
L6001	1-406-663-21	INDUCTOR 47UH		R6033	1-215-481-00	METAL 330K 1% 1/4W	
L6002	1-412-529-11	INDUCTOR 22UH		R6034	1-249-389-11	CARBON 4.7 5% 1/4W	
L6003	1-412-529-11	INDUCTOR 22UH		R6035	1-260-083-91	CARBON 47 5% 1/2W	
L6004	1-535-143-61	LEAD, JUMPER (5.0MM)		R6036	1-216-817-11	RES-CHIP 470 5% 1/16W	
L6005	1-535-143-61	LEAD, JUMPER (5.0MM)		R6037	1-249-405-11	CARBON 100 5% 1/4W	
L6006	1-406-659-11	INDUCTOR 10UH		R6038	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
L6007	1-412-525-31	INDUCTOR 10UH		R6039	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
				R6040	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	
				R6042	1-216-295-91	SHORT 0	
				R6045	1-208-770-11	METAL CHIP 330 0.5% 1/10W	
				R6047	1-208-842-11	METAL CHIP 330K 0.5% 1/10W	

G

C

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	REF.NO.	PART.NO	DESCRIPTION	REMARK
R6048	1-215-481-00	METAL	330K 1% 1/4W	C7360	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V
R6049	1-208-805-11	METAL CHIP	9.1K 0.5% 1/10W	C7378	1-162-116-00	CERAMIC 680PF	10.00% 2KV
R6050	1-208-758-11	METAL CHIP	100 0.5% 1/10W	C7379	1-162-114-00	CERAMIC 0.0047UF	2KV
R6054	1-211-964-91	RES-CHIP	33 0.5% 1/10W	C7385	1-162-913-91	CERAMIC CHIP 8PF	0.50PF 50V
R6056	1-216-295-91	SHORT	0	C7388	1-162-913-91	CERAMIC CHIP 8PF	0.50PF 50V
R6101	1-216-821-11	RES-CHIP	1K 5% 1/16W	C7391	1-162-913-91	CERAMIC CHIP 8PF	0.50PF 50V
R6102	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	< CONNECTOR >			
R6103	1-216-821-11	RES-CHIP	1K 5% 1/16W	CN7300	*1-564-508-11	PLUG, CONNECTOR 5P	
R6104	1-216-821-11	RES-CHIP	1K 5% 1/16W	CN7301	*1-564-512-11	PLUG, CONNECTOR 9P	
R6105	1-216-821-11	RES-CHIP	1K 5% 1/16W	CN7311	1-695-915-11	TAB (CONTACT)	
R6106	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	CN7333	1-695-915-11	TAB (CONTACT)	
R6107	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	< DIODE >			
R6108	1-216-821-11	RES-CHIP	1K 5% 1/16W	D7300	8-719-911-19	DIODE 1SS119-25	
R6109	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	D7325	8-719-911-19	DIODE 1SS119-25	
R6110	1-216-821-11	RES-CHIP	1K 5% 1/16W	D7350	8-719-911-19	DIODE 1SS119-25	
< RELAY >				D7375	8-719-991-33	DIODE 1SS133T-77	
RY6001	Δ 1-755-395-11	RELAY (AC POWER)		D7376	8-719-991-33	DIODE 1SS133T-77	
RY6002	Δ 1-755-389-11	RELAY (AC POWER)		< IC >			
< TRANSFORMER >				IC7300	8-759-360-83	IC TDA6111Q/N4	
T6002	Δ 1-437-443-11	TRANSFORMER, PIT		IC7325	8-759-360-83	IC TDA6111Q/N4	
T6003	Δ 1-424-896-11	TRANSFORMER, LINE FILTER		IC7350	8-759-360-83	IC TDA6111Q/N4	
T6101	Δ 1-437-483-11	TRANSFORMER, STANDBY		< SOCKET >			
< THERMISTOR >				J7375	Δ 1-251-732-11	SOCKET, CRT	
TH6002	Δ 1-803-541-11	THERMISTOR		< COIL >			
*A-1638-158-A C Board, Complete				L7375	1-410-671-31	INDUCTOR 47UH	
4-382-854-01	SCREW (M3X8), P, SW (+)			L7376	Δ 1-532-637-00	LINK, IC 1A/150V	
< CAPACITOR >				L7378	1-414-934-21	INDUCTOR 10UH	
C7303	1-162-909-91	CERAMIC CHIP 4PF	0.25PF 50V	< TRANSISTOR >			
C7305	1-136-207-11	MYLAR 0.047UF	10.00% 400V	Q7350	8-729-901-06	TRANSISTOR DTA144EK	
C7306	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V	Q7352	8-729-421-19	TRANSISTOR UN2213	
C7309	1-163-035-00	CERAMIC CHIP 0.047UF	50V	Q7353	8-729-421-19	TRANSISTOR UN2213	
C7310	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V	Q7354	8-729-901-06	TRANSISTOR DTA144EK	
C7325	1-162-909-91	CERAMIC CHIP 4PF	0.25PF 50V	Q7355	8-729-421-19	TRANSISTOR UN2213	
C7326	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V	< RESISTOR >			
C7330	1-136-207-11	MYLAR 0.047UF	10.00% 400V	R7300	1-249-417-11	CARBON 1K 5% 1/4W	
C7333	1-163-035-00	CERAMIC CHIP 0.047UF	50V	R7302	1-535-143-61	LEAD, JUMPER (5.0MM)	
C7334	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V	R7303	1-216-824-11	RES-CHIP 1.8K 5% 1/16W	
C7350	1-104-664-91	ELECT 47UF	20.00% 50V	R7304	1-202-565-81	RES-SOLID 470 20% 1/2W	
C7351	1-162-909-91	CERAMIC CHIP 4PF	0.25PF 50V	R7305	1-215-903-11	METAL OXIDE 68K 5% 2W	
C7352	1-163-009-91	CERAMIC CHIP 0.001UF	10.00% 50V	R7306	1-535-143-61	LEAD, JUMPER (5.0MM)	
C7354	1-126-933-11	ELECT 100UF	20.00% 16V	R7309	1-216-824-11	RES-CHIP 1.8K 5% 1/16W	
C7355	1-107-967-11	ELECT 1UF	20.00% 400V	R7325	1-249-417-11	CARBON 1K 5% 1/4W	
C7356	1-136-207-11	MYLAR 0.047UF	10.00% 400V	R7327	1-535-143-61	LEAD, JUMPER (5.0MM)	
C7359	1-163-035-00	CERAMIC CHIP 0.047UF	50V				



REF.NO.	PART.NO	DESCRIPTION			REMARK	REF.NO.	PART.NO	DESCRIPTION			REMARK
R7328	1-216-824-11	RES-CHIP	1.8K	5%	1/16W	C8109	1-126-947-11	ELECT	47UF	20.00%	25V
R7329	1-202-565-81	RES-SOLID	470	20%	1/2W	C8113	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
R7330	1-215-903-11	METAL OXIDE	68K	5%	2W	C8114	1-126-964-11	ELECT	10UF	20.00%	50V
R7331	1-535-143-61	LEAD, JUMPER	(5.0MM)			C8115	1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V
R7335	1-216-824-11	RES-CHIP	1.8K	5%	1/16W	C8116	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
R7350	1-249-417-11	CARBON	1K	5%	1/4W	C8117	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
R7355	1-535-143-61	LEAD, JUMPER	(5.0MM)			C8118	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
R7356	1-216-824-11	RES-CHIP	1.8K	5%	1/16W	C8120	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
R7357	1-202-565-81	RES-SOLID	470	20%	1/2W	C8125	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
R7358	1-215-903-11	METAL OXIDE	68K	5%	2W	C8126	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
R7360	1-535-143-61	LEAD, JUMPER	(5.0MM)			C8128	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
R7364	1-216-824-11	RES-CHIP	1.8K	5%	1/16W	C8130	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
R7373	1-216-823-11	RES-CHIP	1.5K	5%	1/16W	C8131	1-126-964-11	ELECT	10UF	20.00%	50V
R7375	1-249-435-11	CARBON	33K	5%	1/4W	C8132	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
R7376	1-249-429-11	CARBON	10K	5%	1/4W	C8134	1-102-504-91	CERAMIC	4PF	0.25PF	50V
R7377	1-249-430-11	CARBON	12K	5%	1/4W	C8135	1-126-964-11	ELECT	10UF	20.00%	50V
R7379	1-216-833-11	RES-CHIP	10K	5%	1/16W	C8136	1-126-964-11	ELECT	10UF	20.00%	50V
R7380	1-216-833-11	RES-CHIP	10K	5%	1/16W	C8140	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
R7381	1-216-833-11	RES-CHIP	10K	5%	1/16W	C8209	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
R7382	1-202-549-00	RES-SOLID	100	20%	1/2W	C8210	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
R7383	1-216-399-00	METAL OXIDE	6.8	5%	3W	C8801	1-126-947-11	ELECT	47UF	20.00%	25V
R7384	1-216-399-00	METAL OXIDE	6.8	5%	3W	C8802	1-126-960-11	ELECT	1UF	20.00%	50V
R7385	1-202-549-00	RES-SOLID	100	20%	1/2W	C8803	1-126-960-11	ELECT	1UF	20.00%	50V
R7388	1-535-143-51	LEAD, JUMPER	(20.0MM)			C8804	1-102-114-00	CERAMIC	470PF	10.00%	50V
R7390	1-249-417-11	CARBON	1K	5%	1/4W	C8805	1-102-114-00	CERAMIC	470PF	10.00%	50V
R7391	1-216-824-11	RES-CHIP	1.8K	5%	1/16W	C8808	1-102-030-00	CERAMIC	330PF	10.00%	500V
R7393	1-216-823-11	RES-CHIP	1.5K	5%	1/16W	C8809	1-102-030-00	CERAMIC	330PF	10.00%	500V
R7394	1-249-417-11	CARBON	1K	5%	1/4W	C8810	1-107-368-11	MYLAR	0.047UF	10.00%	200V
R7395	1-216-824-11	RES-CHIP	1.8K	5%	1/16W	C8811	1-107-368-11	MYLAR	0.047UF	10.00%	200V
R7397	1-216-823-11	RES-CHIP	1.5K	5%	1/16W	C8812	1-162-131-11	CERAMIC	220PF	10.00%	2KV
R7398	1-249-417-11	CARBON	1K	5%	1/4W	C8813	1-107-444-11	CERAMIC	100PF	10.00%	2KV
R7399	1-216-824-11	RES-CHIP	1.8K	5%	1/16W	C8814	1-117-640-11	FILM	6800PF	3.00%	1.2KV
< VARIABLE RESISTOR >						C8815	1-117-835-11	FILM	6200PF	3.00%	1.5KV
RV7375	1-241-656-11	RES, ADJ, METAL FILM 110M				C8816	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
*A-1640-432-A D Board, Complete						C8817	1-125-893-11	FILM	680PF	3.00%	1.5KV
						C8818	1-125-893-11	FILM	680PF	3.00%	1.5KV
						C8819	1-125-893-11	FILM	680PF	3.00%	1.5KV
						C8820	1-125-893-11	FILM	680PF	3.00%	1.5KV
						C8824	1-107-846-11	FILM	0.1UF	5.00%	250V
4-382-854-01	SCREW (M3X8), P, SW (+)					C8825	1-117-663-11	FILM	0.22UF	5.00%	250V
*4-931-401-01	HEAT SINK, V.OUT					C8826	1-115-518-11	FILM	0.47UF	5.00%	250V
< CAPACITOR >						C8827	1-117-660-21	FILM	0.12UF	5.00%	250V
C8100	1-136-165-00	FILM	0.1UF	5.00%	50V	C8828	1-127-681-11	FILM MELF	10000PF	2%	100V
C8101	1-136-165-00	FILM	0.1UF	5.00%	50V	C8829	1-127-680-11	FILM MELF	4700PF	2%	100V
C8102	1-136-165-00	FILM	0.1UF	5.00%	50V	C8830	1-107-655-11	ELECT	47UF	20.00%	250V
C8103	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V	C8831	1-102-228-00	CERAMIC	470PF	10.00%	500V
C8104	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V	C8832	1-126-941-11	ELECT	470UF	20.00%	25V
C8105	1-126-947-11	ELECT	47UF	20.00%	25V	C8833	1-126-941-11	ELECT	470UF	20.00%	25V
C8106	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V	C8834	1-102-228-00	CERAMIC	470PF	10.00%	500V
C8108	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V	C8835	1-102-228-00	CERAMIC	470PF	10.00%	500V

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C8836	1-123-024-21	ELECT	33UF 160V	D8857	8-719-110-41	DIODE RD15ES-B2	
C8837	1-106-375-12	MYLAR	0.022UF 10.00% 250V	D8858	8-719-081-97	DIODE MMDL914T1	
C8840	1-165-176-11	CERAMIC CHIP	0.047UF 10.00% 16V			< FERRITE BEAD >	
C8841	1-126-947-11	ELECT	47UF 20.00% 25V				
C8844	1-115-513-21	FILM	0.18UF 5.00% 250V	FB8807	1-410-397-21	FERRITE	1.1UH
						< IC >	
C8851	1-162-131-11	CERAMIC	220PF 10.00% 2KV	IC8100	8-759-450-95	IC LM393N	
C8852	1-162-129-00	CERAMIC	150PF 10.00% 2KV	IC8101	8-759-450-95	IC LM393N	
C8853	1-129-898-00	FILM	0.0022UF 5.00% 630V	IC8102	8-759-638-79	IC NJM3404AD-W	
C8855	1-136-205-11	MYLAR	0.022UF 10.00% 400V	IC8103	8-759-450-95	IC LM393N	
C8856	1-102-030-00	CERAMIC	330PF 10.00% 500V			< COIL >	
		< CONNECTOR >		L8801	1-410-397-21	FERRITE	1.1UH
CN8600	*1-564-509-11	PLUG, CONNECTOR 6P		L8802	1-410-397-21	FERRITE	1.1UH
CN8601	*1-564-506-11	PLUG, CONNECTOR 3P		L8803	1-410-397-21	FERRITE	1.1UH
CN8611	*1-785-270-12	PIN, DY CONNECTOR (PC BOARD)		L8805	1-408-947-00	INDUCTOR	2.2MH
CN8612	*1-564-511-51	PLUG, CONNECTOR 8P		L8851	1-535-143-61	LEAD, JUMPER (5.0MM)	
CN8614	*1-564-508-11	PLUG, CONNECTOR 5P				< FILTER >	
CN8616	1-695-915-11	TAB (CONTACT)		LF8801	1-406-985-11	INDUCTOR	2.2MH
CN8620	*1-764-333-11	PLUG, CONNECTOR 10P		LF8851	1-406-674-11	INDUCTOR	3.3MH
CN8810	*1-564-510-11	PLUG, CONNECTOR 7P				< TRANSISTOR >	
		< DIODE >					
D8102	8-719-081-97	DIODE MMDL914T1		Q8100	8-729-010-29	TRANSISTOR MSD601-RST1	
D8103	8-719-081-97	DIODE MMDL914T1		Q8101	8-729-010-29	TRANSISTOR MSD601-RST1	
D8104	8-719-081-97	DIODE MMDL914T1		Q8102	8-729-010-29	TRANSISTOR MSD601-RST1	
D8105	8-719-081-97	DIODE MMDL914T1		Q8103	8-729-010-29	TRANSISTOR MSD601-RST1	
D8107	8-719-081-97	DIODE MMDL914T1		Q8104	8-729-010-29	TRANSISTOR MSD601-RST1	
D8108	8-719-921-40	DIODE MTZJ-4.7C		Q8105	8-729-010-29	TRANSISTOR MSD601-RST1	
D8128	8-719-081-97	DIODE MMDL914T1		Q8106	8-729-010-29	TRANSISTOR MSD601-RST1	
D8129	8-719-081-97	DIODE MMDL914T1		Q8107	8-729-010-29	TRANSISTOR MSD601-RST1	
D8132	8-719-081-97	DIODE MMDL914T1		Q8108	8-729-010-05	TRANSISTOR MSE709-RT1	
D8133	8-719-081-97	DIODE MMDL914T1		Q8110	8-729-010-05	TRANSISTOR MSE709-RT1	
D8198	1-535-143-61	LEAD, JUMPER (5.0MM)		Q8112	8-729-010-29	TRANSISTOR MSD601-RST1	
D8199	8-719-081-97	DIODE MMDL914T1		Q8113	8-729-010-29	TRANSISTOR MSD601-RST1	
D8611	8-719-081-97	DIODE MMDL914T1		Q8115	8-729-010-05	TRANSISTOR MSE709-RT1	
D8612	8-719-081-97	DIODE MMDL914T1		Q8118	8-729-010-29	TRANSISTOR MSD601-RST1	
D8803	8-719-908-03	DIODE GP08D		Q8119	8-729-010-05	TRANSISTOR MSE709-RT1	
D8805	8-719-302-43	DIODE EL1Z		Q8120	8-729-010-05	TRANSISTOR MSE709-RT1	
D8806	8-719-979-85	DIODE EGP20G		Q8122	8-729-010-05	TRANSISTOR MSE709-RT1	
D8807	8-719-085-12	DIODE BYV98-200-RAS 15/12		Q8123	8-729-010-05	TRANSISTOR MSE709-RT1	
D8808	8-719-085-12	DIODE BYV98-200-RAS 15/12		Q8125	8-729-010-29	TRANSISTOR MSD601-RST1	
D8811	8-719-110-41	DIODE RD15ES-B2		Q8126	8-729-010-05	TRANSISTOR MSE709-RT1	
D8818	8-719-109-89	DIODE RD5.6ESB2		Q8127	8-729-010-05	TRANSISTOR MSE709-RT1	
D8819	8-719-050-38	DIODE M1MA152WK-T1		Q8128	8-729-010-29	TRANSISTOR MSD601-RST1	
D8820	8-719-081-97	DIODE MMDL914T1		Q8132	8-729-421-19	TRANSISTOR UN2213	
D8851	8-719-970-87	DIODE ERA38-06		Q8135	8-729-010-29	TRANSISTOR MSD601-RST1	
D8856	8-719-081-97	DIODE MMDL914T1		Q8136	8-729-010-05	TRANSISTOR MSE709-RT1	

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
Q8137	8-729-010-29	TRANSISTOR MSD601-RST1		R8133	1-216-815-11	RES-CHIP 330 5%	1/16W
Q8201	8-729-010-29	TRANSISTOR MSD601-RST1		R8136	1-208-822-11	METAL CHIP 47K 0.5%	1/10W
Q8202	8-729-010-29	TRANSISTOR MSD601-RST1		R8137	1-208-822-11	METAL CHIP 47K 0.5%	1/10W
Q8203	8-729-010-05	TRANSISTOR MSB709-RT1		R8138	1-208-822-11	METAL CHIP 47K 0.5%	1/10W
Q8455	8-729-010-29	TRANSISTOR MSD601-RST1		R8139	1-208-822-11	METAL CHIP 47K 0.5%	1/10W
Q8801	8-729-048-47	TRANSISTOR 2SC2688 (5) -LK		R8140	1-216-825-11	RES-CHIP 2.2K 5%	1/16W
Q8802	8-729-048-47	TRANSISTOR 2SC2688 (5) -LK		R8141	1-208-814-91	METAL CHIP 22K 0.5%	1/10W
Q8803	8-729-056-16	TRANSISTOR 2SC5698-CA		R8142	1-208-803-11	METAL CHIP 7.5K 0.5%	1/10W
Q8804	8-729-056-17	TRANSISTOR 2SC5696-SONY-CA		R8143	1-216-825-11	RES-CHIP 2.2K 5%	1/16W
Q8805	8-729-050-48	TRANSISTOR IRF614-005		R8144	1-216-841-11	RES-CHIP 47K 5%	1/16W
Q8806	8-729-047-59	TRANSISTOR STP5NB40FP		R8145	1-216-825-11	RES-CHIP 2.2K 5%	1/16W
Q8807	8-729-421-19	TRANSISTOR UN2213		R8146	1-208-790-11	METAL CHIP 2.2K 0.5%	1/10W
Q8822	8-729-010-29	TRANSISTOR MSD601-RST1		R8149	1-216-828-11	RES-CHIP 3.9K 5%	1/16W
Q8823	8-729-010-05	TRANSISTOR MSB709-RT1		R8150	1-216-837-91	RES-CHIP 22K 5%	1/16W
Q8851	6-550-012-01	TRANSISTOR STP5NB40 (030Y)		R8153	1-216-295-91	SHORT 0	
< RESISTOR >				R8154	1-208-782-11	METAL CHIP 1K 0.5%	1/10W
R8100	1-216-813-11	RES-CHIP 220 5%	1/16W	R8155	1-208-789-91	RES-CHIP 2K 0.5%	1/10W
R8101	1-216-813-11	RES-CHIP 220 5%	1/16W	R8158	1-208-794-11	METAL CHIP 3.3K 0.5%	1/10W
R8102	1-216-825-11	RES-CHIP 2.2K 5%	1/16W	R8159	1-216-295-91	SHORT 0	
R8103	1-216-825-11	RES-CHIP 2.2K 5%	1/16W	R8160	1-216-295-91	SHORT 0	
R8104	1-216-825-11	RES-CHIP 2.2K 5%	1/16W	R8161	1-208-804-11	METAL CHIP 8.2K 0.5%	1/10W
R8105	1-216-821-11	RES-CHIP 1K 5%	1/16W	R8162	1-216-821-11	RES-CHIP 1K 5%	1/16W
R8106	1-216-825-11	RES-CHIP 2.2K 5%	1/16W	R8163	1-216-833-11	RES-CHIP 10K 5%	1/16W
R8107	1-208-792-91	RES-CHIP 2.7K 0.5%	1/10W	R8164	1-208-814-91	METAL CHIP 22K 0.5%	1/10W
R8108	1-208-792-91	RES-CHIP 2.7K 0.5%	1/10W	R8165	1-208-830-11	METAL CHIP 100K 0.5%	1/10W
R8109	1-208-814-91	METAL CHIP 22K 0.5%	1/10W	R8168	1-216-829-11	RES-CHIP 4.7K 5%	1/16W
R8110	1-208-814-91	METAL CHIP 22K 0.5%	1/10W	R8169	1-208-830-11	METAL CHIP 100K 0.5%	1/10W
R8111	1-216-825-11	RES-CHIP 2.2K 5%	1/16W	R8170	1-216-815-11	RES-CHIP 330 5%	1/16W
R8112	1-216-825-11	RES-CHIP 2.2K 5%	1/16W	R8171	1-216-825-11	RES-CHIP 2.2K 5%	1/16W
R8113	1-216-833-11	RES-CHIP 10K 5%	1/16W	R8174	1-216-834-11	RES-CHIP 12K 5%	1/16W
R8114	1-216-833-11	RES-CHIP 10K 5%	1/16W	R8175	1-216-831-91	RES-CHIP 6.8K 5%	1/16W
R8115	1-216-845-91	RES-CHIP 100K 5%	1/16W	R8176	1-216-838-91	RES-CHIP 27K 5%	1/16W
R8116	1-216-845-91	RES-CHIP 100K 5%	1/16W	R8177	1-216-830-91	RES-CHIP 5.6K 5%	1/16W
R8117	1-216-833-11	RES-CHIP 10K 5%	1/16W	R8179	1-216-295-91	SHORT 0	
R8118	1-216-833-11	RES-CHIP 10K 5%	1/16W	R8180	1-216-825-11	RES-CHIP 2.2K 5%	1/16W
R8119	1-216-833-11	RES-CHIP 10K 5%	1/16W	R8181	1-216-295-91	SHORT 0	
R8120	1-216-825-11	RES-CHIP 2.2K 5%	1/16W	R8182	1-216-841-11	RES-CHIP 47K 5%	1/16W
R8121	1-216-825-11	RES-CHIP 2.2K 5%	1/16W	R8183	1-216-825-11	RES-CHIP 2.2K 5%	1/16W
R8122	1-216-825-11	RES-CHIP 2.2K 5%	1/16W	R8186	1-216-827-11	RES-CHIP 3.3K 5%	1/16W
R8123	1-216-841-11	RES-CHIP 47K 5%	1/16W	R8188	1-216-829-91	RES-CHIP 4.7K 5%	1/16W
R8124	1-216-821-91	RES-CHIP 1K 5%	1/16W	R8189	1-216-822-91	RES-CHIP 1.2K 5%	1/16W
R8125	1-216-825-11	RES-CHIP 2.2K 5%	1/16W	R8190	1-216-825-11	RES-CHIP 2.2K 5%	1/16W
R8126	1-216-815-11	RES-CHIP 330 5%	1/16W	R8191	1-215-925-11	METAL OXIDE 22K 5%	3W
R8127	1-208-794-11	METAL CHIP 3.3K 0.5%	1/10W	R8196	1-249-377-11	CARBON 0.47 5%	1/4W
R8128	1-208-822-11	METAL CHIP 47K 0.5%	1/10W	R8197	1-216-841-91	RES-CHIP 47K 5%	1/16W
R8129	1-208-822-11	METAL CHIP 47K 0.5%	1/10W	R8206	1-216-848-91	RES-CHIP 180K 5%	1/16W
R8130	1-208-846-11	METAL CHIP 470K 0.5%	1/10W	R8207	1-216-850-91	RES-CHIP 270K 5%	1/16W
R8131	1-216-815-11	RES-CHIP 330 5%	1/16W	R8209	1-216-295-91	SHORT 0	
R8132	1-216-815-11	RES-CHIP 330 5%	1/16W	R8210	1-216-825-11	RES-CHIP 2.2K 5%	1/16W
				R8211	1-216-833-11	RES-CHIP 10K 5%	1/16W

REF.NO.	PART.NO	DESCRIPTION	REMARK			REF.NO.	PART.NO	DESCRIPTION	REMARK		
R8212	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R8866	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8215	1-208-814-91	METAL CHIP	22K	0.5%	1/10W	R8867	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8216	1-208-812-91	RES-CHIP	18K	0.5%	1/10W	R8869	1-216-837-11	RES-CHIP	22K	5%	1/16W
R8217	1-216-833-11	RES-CHIP	10K	5%	1/16W	R8870	1-216-837-11	RES-CHIP	22K	5%	1/16W
R8219	1-216-841-11	RES-CHIP	47K	5%	1/16W	R8885	1-208-854-11	METAL CHIP	1M	0.5%	1/10W
R8220	1-216-834-11	RES-CHIP	12K	5%	1/16W	R8886	1-208-840-11	METAL CHIP	270K	0.5%	1/10W
R8221	1-216-833-91	RES-CHIP	10K	5%	1/16W	R8887	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8456	1-216-845-11	RES-CHIP	100K	5%	1/16W	R8888	1-249-441-11	CARBON	100K	5%	1/4W
R8457	1-216-834-11	RES-CHIP	12K	5%	1/16W	R8895	1-249-443-11	CARBON	0.47	5%	1/4W
R8458	1-216-841-11	RES-CHIP	47K	5%	1/16W	R8896	1-249-443-11	CARBON	0.47	5%	1/4W
R8459	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R8897	1-215-485-00	METAL	470K	1%	1/4W
R8800	1-247-895-91	CARBON	470K	5%	1/4W	R8898	1-215-493-00	METAL	1M	1%	1/4W
R8804	1-249-408-11	CARBON	180	5%	1/4W	R8899	1-215-493-00	METAL	1M	1%	1/4W
R8805	1-249-408-11	CARBON	180	5%	1/4W	< TRANSFORMER >					
R8806	1-249-411-11	CARBON	330	5%	1/4W	T8800 ⚠ 1-453-340-31 TRANSFORMER ASSY, FLYBACK (NX-4522//Z2B4)					
R8807	1-249-411-11	CARBON	330	5%	1/4W	T8801 1-437-430-11 TRANSFORMER, FERRITE (HDT)					
R8808	1-260-340-11	CARBON	10K	5%	1/2W	T8802 1-437-430-11 TRANSFORMER, FERRITE (HDT)					
R8809	1-260-340-11	CARBON	10K	5%	1/2W	T8852 1-433-487-11 TRANSFORMER, FERRITE (DFT)					
R8810	1-215-895-11	METAL OXIDE	3.3K	5%	2W	*A-1644-119-A VM Board, Complete					
R8811	1-215-896-51	METAL OXIDE	4.7K	5%	2W						
R8812	1-216-461-51	METAL OXIDE	5.6K	5%	2W						
R8813	1-215-895-11	METAL OXIDE	3.3K	5%	2W						
R8814	1-215-880-00	METAL OXIDE	10	5%	2W						
R8815	1-215-880-00	METAL OXIDE	10	5%	2W	4-382-854-01 SCREW (M3X8) , P, SW (+)					
R8816	1-216-365-51	METAL OXIDE	0.47	5%	2W	< CAPACITOR >					
R8817	1-216-361-00	METAL OXIDE	0.22	5%	2W	C7401	1-126-935-11	ELECT	470UF	20.00%	16V
R8818	1-249-405-11	CARBON	100	5%	1/4W	C7403	1-126-935-11	ELECT	470UF	20.00%	6.3V
R8819	1-247-807-31	CARBON	100	5%	1/4W	C7404	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
R8831	1-260-124-11	CARBON	120K	5%	1/2W	C7405	1-126-933-11	ELECT	100UF	20.00%	16V
R8833	1-202-972-61	FUSIBLE	1	5%	1/4W	C7406	1-126-935-11	ELECT	470UF	20.00%	6.3V
R8834	1-260-288-11	CARBON	0.47	5%	1/2W	C7407	1-107-364-11	MYLAR	0.01UF	10.00%	200V
R8835	1-260-288-11	CARBON	0.47	5%	1/2W	C7408	1-107-364-11	MYLAR	0.01UF	10.00%	200V
R8836	1-249-432-11	CARBON	18K	5%	1/4W	C7409	1-107-649-11	ELECT	2.2UF	20.00%	250V
R8837	1-215-894-11	METAL OXIDE	2.2K	5%	2W	C7410	1-130-471-00	MYLAR	0.001UF	5.00%	50V
R8838	1-214-905-11	METAL	47K	1%	1/2W	C7411	1-130-471-00	MYLAR	0.001UF	5.00%	50V
R8839	1-215-894-11	METAL OXIDE	2.2K	5%	2W	C7412	1-126-935-11	ELECT	470UF	20.00%	16V
R8840	1-247-843-11	CARBON	3.3K	5%	1/4W	C7413	1-126-935-11	ELECT	470UF	20.00%	16V
R8842	1-260-123-11	CARBON	100K	5%	1/2W	C7414	1-107-652-11	ELECT	10UF	20.00%	250V
R8843	1-216-833-11	RES-CHIP	10K	5%	1/16W	C7415	1-107-363-91	MYLAR	0.0068UF	10.00%	200V
R8844	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	C7418	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
R8845	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	C7421	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
R8851	1-260-123-11	CARBON	100K	5%	1/2W	< CONNECTOR >					
R8852	1-260-123-11	CARBON	100K	5%	1/2W	CN7442	*1-564-508-11	PLUG, CONNECTOR 5P			
R8853	1-260-123-11	CARBON	100K	5%	1/2W	CN7443	*1-564-506-11	PLUG, CONNECTOR 3P			
R8854	1-247-847-91	CARBON	4.7K	5%	1/4W	CN7444	*1-770-723-11	CONNECTOR, BOARD TO BOARD 8P			
R8856	1-216-485-11	METAL OXIDE	5.6K	5%	3W	< DIODE >					
R8857	1-216-485-11	METAL OXIDE	5.6K	5%	3W	D7400	8-719-991-33	DIODE 1SS133T-77			
R8858	1-215-922-11	METAL OXIDE	6.8K	5%	3W	D7401	8-719-991-33	DIODE 1SS133T-77			
R8859	1-215-922-11	METAL OXIDE	6.8K	5%	3W						
R8865	1-216-829-11	RES-CHIP	4.7K	5%	1/16W						



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
D7402	1-535-143-61	LEAD, JUMPER (5.0MM)		R7427	1-216-025-11	RES-CHIP 100 5% 1/10W	
D7403	8-719-991-33	DIODE 1SS133T-77		R7428	1-216-033-00	RES-CHIP 220 5% 1/10W	
D7404	8-719-991-33	DIODE 1SS133T-77		R7429	1-216-033-00	RES-CHIP 220 5% 1/10W	
D7405	8-719-924-11	DIODE MTZJ-T-77-22		R7432	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
D7406	8-719-924-11	DIODE MTZJ-T-77-22		R7433	1-249-400-11	CARBON 39 5% 1/4W	
< FERRITE BEAD >				R7434	1-249-395-11	CARBON 15 5% 1/4W	
FB7400	1-535-143-61	LEAD, JUMPER (5.0MM)		R7435	1-216-029-00	RES-CHIP 150 5% 1/10W	
FB7401	1-535-143-61	LEAD, JUMPER (5.0MM)		R7436	1-216-047-91	RES-CHIP 820 5% 1/10W	
< COIL >							
L7400	1-414-934-21	INDUCTOR 10UH					
L7402	1-414-934-21	INDUCTOR 10UH					
L7403	1-414-934-21	INDUCTOR 10UH					
< TRANSISTOR >							
Q7400	8-729-010-29	TRANSISTOR MSD601-RST1					
Q7401	8-729-010-29	TRANSISTOR MSD601-RST1					
Q7402	8-729-010-29	TRANSISTOR MSD601-RST1					
Q7403	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q7404	8-729-216-22	TRANSISTOR 2SA1162-G					
Q7405	8-729-026-39	TRANSISTOR 2SA933AS-QT					
Q7406	8-729-045-05	TRANSISTOR 2SA2005					
Q7407	8-729-045-04	TRANSISTOR 2SC5511					
Q7408	8-729-216-22	TRANSISTOR 2SA1162-G					
Q7409	8-729-010-29	TRANSISTOR MSD601-RST1					
< RESISTOR >							
R7400	1-216-017-91	RES-CHIP 47 5% 1/10W					
R7401	1-216-061-91	RES-CHIP 3.3K 5% 1/10W					
R7402	1-216-041-00	RES-CHIP 470 5% 1/10W					
R7403	1-249-393-11	CARBON 10 5% 1/4W					
R7404	1-249-413-11	CARBON 470 5% 1/4W					
R7405	1-216-065-91	RES-CHIP 4.7K 5% 1/10W					
R7407	1-249-411-11	CARBON 330 5% 1/4W					
R7409	1-216-029-00	RES-CHIP 150 5% 1/10W					
R7410	1-216-017-91	RES-CHIP 47 5% 1/10W					
R7411	1-216-017-91	RES-CHIP 47 5% 1/10W					
R7412	1-216-073-91	RES-CHIP 10K 5% 1/10W					
R7413	1-249-414-11	CARBON 560 5% 1/4W					
R7414	1-249-432-11	CARBON 18K 5% 1/4W					
R7415	1-247-739-11	CARBON 100 5% 1/2W					
R7416	1-249-389-11	CARBON 4.7 5% 1/4W					
R7417	1-249-432-11	CARBON 18K 5% 1/4W					
R7418	1-249-414-11	CARBON 560 5% 1/4W					
R7419	1-249-421-11	CARBON 2.2K 5% 1/4W					
R7420	1-249-421-11	CARBON 2.2K 5% 1/4W					
R7421	1-249-388-11	CARBON 3.9 5% 1/4W					
R7422	1-249-405-11	CARBON 100 5% 1/4W					
R7423	1-215-915-11	METAL OXIDE 470 5% 3W					

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
MISCELLANEOUS							
△	1-571-433-31	SWITCH (AC POWER)					
△	1-690-270-21	CORD, POWER (WITH CONNECTOR)					
	1-424-855-11	COIL, CHOKER					
	8-598-533-01	FRONTEND BTF-EC411					
△	1-453-340-31	TRANSFORMER ASSY, FLYBACK (NX-4522//Z2B4)					
	1-529-408-11	SPEAKER (4.2x24CM)					
	1-529-417-11	SPEAKER (8CM)					
	8-451-504-31	DEFLECTION YOKE (Y29RSC-S)					
	1-452-896-11	COIL, NA ROTATION (RT200)					
	8-453-011-41	NECK ASSY, (NA299-C)					
△	1-424-887-11	COIL, DEGAUSSING					
△	1-251-946-11	CAP ASSY, HIGH-VOLTAGE					
△	8-735-053-05	PICTURE TUBE (M68LNH060X)					
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM					
	1-452-032-00	MAGNET, DISK; 10MM					
ACCESSORIES AND PACKAGING MATERIALS							
	*4-029-168-01	BAG, PROTECTION					
	*4-206-103-01	INDIVIDUAL CARTON					
	4-206-104-11	INSTRUCTION MANUAL (KV-29FX66E) (GERMAN/GREEK/FRENCH/TURKISH)					
	4-206-104-31	INSTRUCTION MANUAL (KV-29FX66E) (DANISH/SPANISH/NORWEGIAN/PORTUGUESE/ SWEDISH/FINNISH)					
	4-206-104-41	INSTRUCTION MANUAL (KV-29FX66E) (ITALIAN)					
	4-206-104-21	INSTRUCTION MANUAL (KV-29FX66K) (BULGARIAN/CZECH/ENGLISH/HUNGARIAN/ POLISH/RUSSIAN)					
REMOTE COMMANDER							
	1-476-700-11	REMOTE COMMANDER (RM-934)					

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.

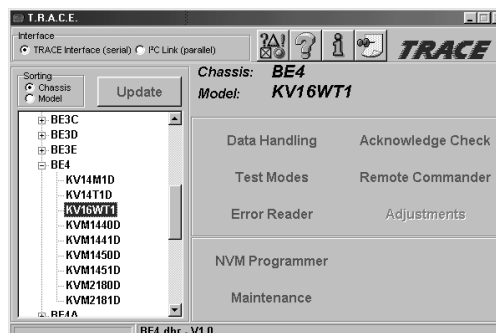
The TRACE software that is supplied with the interface allows you to:

- 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 I ² C 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