

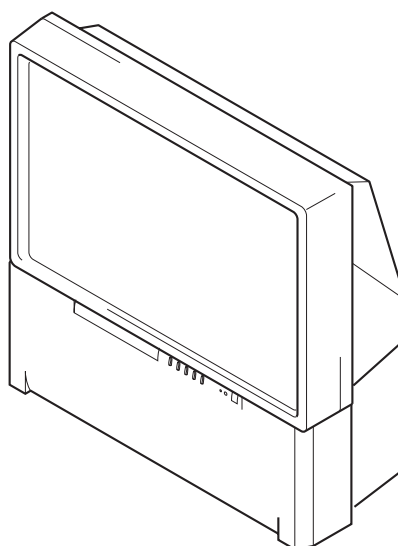
SERVICE MANUAL

RE-2A CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KP-41PX1</i>	<i>RM-892</i>	<i>AEP</i>	<i>SCC-P66A-A</i>
<i>KP-41PX1K</i>	<i>RM-892</i>	<i>OIRT</i>	<i>SCC-P68A-A</i>
<i>KP-41PX1R</i>	<i>RM-862</i>	<i>Russian</i>	<i>SCC-P67A-A</i>



RM-892



PROJECTION TV
SONY®

SPECIFICATIONS

TV system

B/G/H, D/K, I, L

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

L: F2-F10, B-Q, F21-F69

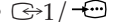
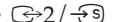
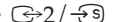
I: UHF B21-B69

Projected picture size

41 inches

Approx. 130 measured diagonally

Rear Terminals

-  Centre speaker input terminals (2 terminals)
-  (L, R) audio outputs (phono jacks)
-  21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
-  2 21-pin Euro connector (CENELEC standard) including audio/video input, S video input, selectable audio/video output
-  3 (SMARTLINK) 21-pin Euro connector (CENELEC standard) including audio/video input, selectable audio / video output (selectable the same output source as  2 connector) and Smartlink interface (41PX1/41PX1R)

Front Terminals

-  2 video input - phono jack
-  2 audio inputs - phono jacks
-  2 S video input - 4 pin DIN
-  Headphones jack - minijack stereo

Sound output

2 x 30 W (music power)

2 x 15 W (RMS)

Centre SP input

30 W (RMS) (using as the centre speaker)

Power consumption

145 W

Standby Power consumption

0.7 W

Dimensions (w x h x d)

Approx. 948 x 992 x 511 mm

Weight

Approx. 43 kg

Accessories supplied

1 Remote Control (RM-892) : 41PX1/41PX1K

 (RM-862) : 41PX1R

2 Batteries (IEC designated)

Other features

Digital Comb filter (High resolution)

TELETEXT, Fastext, TOPtext

NICAM

Sleep Timer

Smartlink : 41PX1/41PX1K

Dolby Virtual

Design and specifications are subject to change without notice.

CAUTION

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

SAFETY-RELATED COMPONENT WARNING!!

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

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SECTION 1

SELF DIAGNOSIS FUNCTION

Diagnostic Errors

The errors indicated below can be read using an Error Reader Display (Part Number S-188-900-10) connected to the service connector. Once an error has been detected it will then be displayed on the two digit error reader.

During the power up procedure and during normal run time, the micro's self diagnostic procedures monitor for various errors, as described in the table below:

Error Number	Error Description
00	No error (TV Error Reader shows 00 in normal condition)
01	Not allowed (may be confused with SIRCS response flash on LED)
02	Protection circuit trip (Any time)
03	Reserved
04	No Vertical Synchronism
05	AKB
06	IIC SCL Low < Power Up Only >
07	IIC SDA Low < Power Up Only >
08	IIC SDA & SCL Low < Power Up Only >
09	Jungle controller no acknowledge < Power Up Only >
10	Video Switch (CXA2040) no acknowledge < Power Up Only >
11	Tuner no acknowledge
12	MSP no acknowledge
13	NVM no acknowledge
14	AV Switch (CXA2089) no acknowledge
15	Digital micro no acknowledge
16	Port Expander (CXA1875) no acknowledge
17	Multiple devices with no acknowledge <Power Up Only>
18	Cannot initialize jungle (after initial power on check OK) - < Chassis Initialization >
19	Jungle controller response failure after power up check (+9V) test
20	Video Switch (CXA2040) cannot power on reset - < Chassis Initialization >
21	Video Switch (CXA2040) response failure after power up check (+9V)
22	NVM acknowledge fail after initialization (STBY +5V)
23	MSP run-time failure < May Not Be Fatal - Display On Error Reader >
24	DSP run-time failure < May Not Be Fatal - Display On Error Reader >
25	M3L bus Clock low time out after data send < Run-Time Failure >
26	M3L bus Clock low time out after data send < At Power Up Check >
27	M3L bus Clock low time out after data send < At Initialization >
28	M3L Txd Low < Power Up Only >
29	M3L Rxd Low < Power Up Only >
30	M3L Enable Low < Power Up Only >
31	Compact Text test fail < Power Up Only >
32	Compact Text does not respond (+5V test)
33	Compact text run-time failure < May Not Be Fatal - Display On Error Reader >

Protection Error (Error 2):

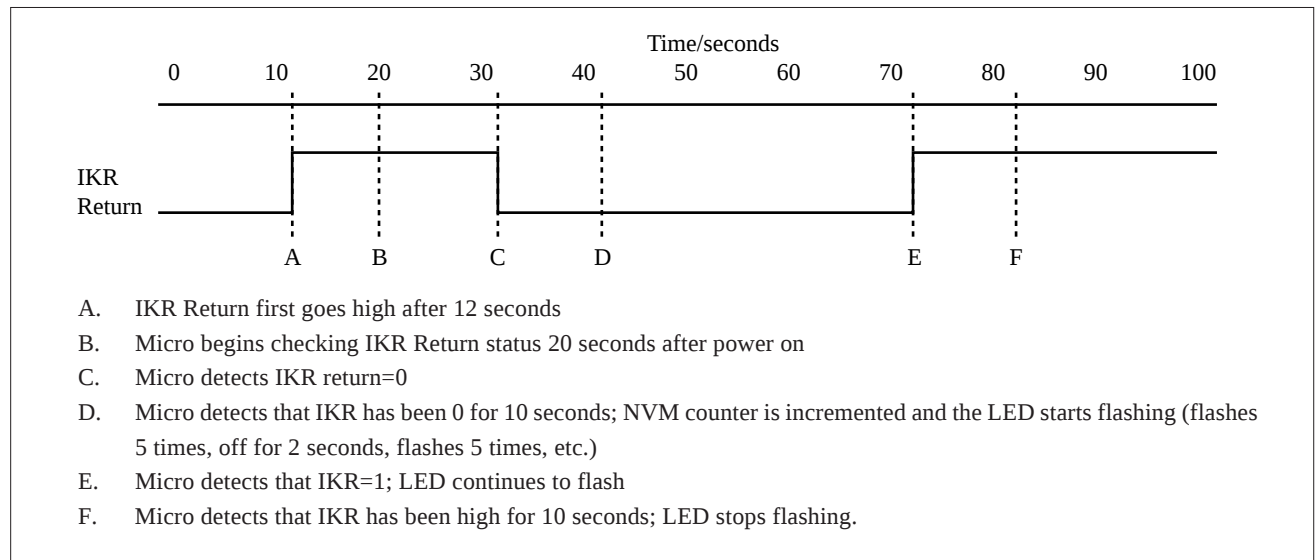
Once every main loop (approximately 200ms OSD mode, 50ms text or menu mode), the micro checks the protection pin (pin 66). If the protection pin is high 6 successive times, a protection error is diagnosed. The protection pin is **not** checked during the first 3-4 seconds after AC on.

If this error is diagnosed, the respective NVM register will be updated and the set goes straight into diagnostic standby with 2 flashes - no reset is attempted.

AKB Error (Error 5):

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

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



Startup Diagnostic Errors (Errors 6-16, 26, 28-31):

These errors are checked for during the power up sequence before attempting to retrieve data from the NVM.

- 6 - SCL pin low
- 7 - SDA pin low
- 8 - Both the SCL and the SDA pin are low
- 9 - No acknowledge from the jungle (CXA2076)
- 10 - No acknowledge from the video switch (CXA2040)
- 11 - No acknowledge from the tuner
- 12 - No acknowledge from the MSP
- 13 - No acknowledge from the NVM
- 14 - No acknowledge from the CXA2089 video switch
- 16 - No acknowledge from the CXA1875 Port Expander
- 26 - M3L_TXD pin low after Compact Text RAM test
- 28 - M3L_TXD pin low
- 29 - M3L_RXD pin low
- 30 - M3LEN pin low
- 31 - Compact Text RAM test fail

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

General I²C Device Run-time Errors (Errors 18-22):

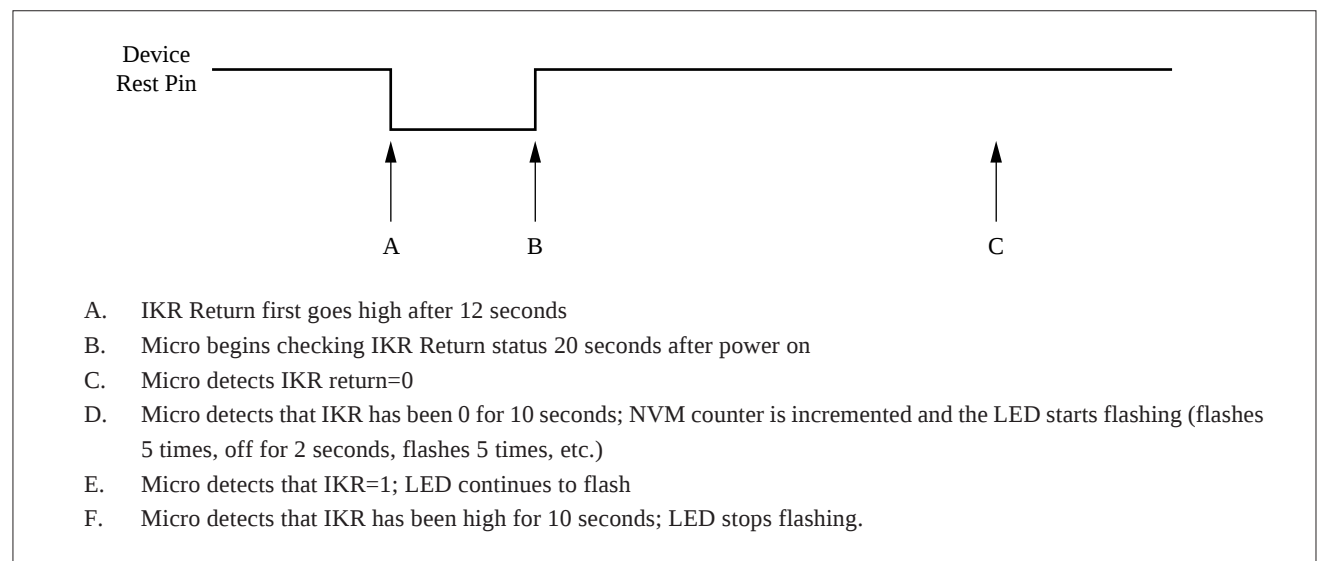
- 18 - No acknowledge from Jungle when attempting to initialize
- 19 - No acknowledge from Jungle when attempting to read registers
- 20 - AV Switch cannot complete reset during initialization
- 21 - No acknowledge from AV Switch when attempting to read registers
- 22 - No acknowledge from NVM when attempting to read or write

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

Compact Text Run-time Errors (Errors 25, 27, 32 & 33):

- 25 - M3L_TXD pin low when checking register 81 (implies that no communication was possible)
- 27 - M3L_TXD pin low when attempting to initialize (implies that no communication was possible)
- 32 - Compact Text RAM test fail during initialization of devices

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



- 33 - Register 81 check fail, but M3L_TXD pin high (implies that Compact Text has either reset or become corrupted).

In this case, the 'device reset' pin will be held low for 60ms, causing a hardware reset of Compact Text. Compact Text will then be re-initialized and the NVM counter updated. This is the same as for errors 26, 28 and 33 except that the M3L bus timeout is not changed. Also, during the reset, Compact Text OSD will be disabled (using pin 59 of the micro). Only when the sync registers have been refreshed twice, will the OSD be enabled.

MSP and DSP Run-time Errors (Errors 23 & 24):

Error 23 can be caused by any of the following:

- After MSP initialization, Scart Prescale Register check fail (implies that the MSP has either reset or become corrupted).
- MSP fails to acknowledge reset instruction
- Scart Prescale Register check fail (implies that the MSP has either reset or become corrupted).

Error 24 is caused by:

- DSP test byte corrupted (implies that the DSP has either reset or become corrupted).

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

Error Display Mode

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

Standby → Information → Digit 5 → Volume Down → TV

This mode will display a special menu, which will list all possible errors and the number of occurrences of each error (0 – 255, as stored in the NVM). There will also be a display of the current error (00 if no error). This display mode will appear as follows:

ERROR DISPLAY MODE			
Current Error Code = 00			
Error Code	Occurrences	Error Code	Occurrences
2	2	18	0
3	—	19	0
4	—	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	4
9	0	25	5
10	0	26	89
11	0	27	3
12	0	28	0
13	0	29	0
14	0	30	0
15	3	31	0
16	0	32	3
17	0	33	38

Whilst in this mode, the number of occurrences of each error can be reset to 0 by TT08.

Only AC off or standby off can exit this mode.

The Current Error Code can also be read by using a TV Error Reader (I2C slave address 42H). This device simply receives 1 data byte, which is the error number in binary coded decimal form.

TT command table

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

Pressing the Menu key when in TT mode enters in main Test Menu. Pressing the Menu key again enters in the User Menus.

TT Modes 40-49 require TV to be in program 59 before the command is accepted. Some Test models are dependant upon the model.

Code	Function
<Menu>	Enter into Service Menu
00	Exit from TT mode
01	Set Picture Level to Maximum
02	Set Picture Level to Minimum
03	Set Volume to 35% (41PX1/41PX1K) Set Volume to 30% (41PX1R)
04	Set Volume to 50%
05	Set Volume to 65%
06	Set Volume to 80%
07	Ageing Mode Enable / Disable
08	Shipping Condition
09	Display TV Status (41PX1/41PX1K) Reset Language Select Menu on Power Up (41PX1R)
11	Sub Picture Adjustment (41PX1/41PX1K) Clear & Disable OSD (41PX1R)
12	Sub Colour Adjustment (41PX1/41PX1K) Enable OSD (41PX1R)
13	Sub Brightness Adjustment (41PX1/41PX1K) Scart 16 : 9 Enable / Disable (41PX1R)
14	Text H-Position Adjustment (41PX1/41PX1K) Display TV Status (41PX1R)
15	Picture Reset
17	Headphones Volume by Pressing Arrows (41PX1/41PX1K) Set All AV Labels to Default (41PX1R)
18	Set Volume to 20% (41PX1/41PX1K) RGB Priority Enable / Disable (41PX1R)
19	Factory Mode Toggle (41PX1/41PX1K) Set All Program Labels to Default (41PX1R)
21	Destination A/D (East Menu / West Text) (41PX1/41PX1K) Sub Picture Adjustment (41PX1R)
22	Destination L (West Menu / West Text) (41PX1/41PX1K) Sub Colour Adjustment (41PX1R)
23	Destination E (West Menu / West Text) (41PX1/41PX1K) Sub Brightness Adjustment (41PX1R)
24	Destination U (West Menu / West Text)
25	Destination D (East Menu / Greek Text)
26	Destination AEP (East Menu / West Text / Greek Text) (41PX1/41PX1K) Destination B (East Menu / West Text) (41PX1R)
27	Destination K (East Menu / East Text)
28	Destination R (Russian Menu / Russian Text) (41PX1/41PX1K) Destination L (West Menu / West Text) (41PX1R)

Code	Function
29	No Function (41PX1/41PX1K) Destination E (West Menu / West Text) (41PX1R)
31	Toggle Auto Shutoff Disable (41PX1/41PX1K) Destination A (East Menu / West Text) (41PX1R)
32	Toggle Bit Error Rate Display (41PX1/41PX1K) Destination R (Russian Menu / Russian Text) (41PX1R)
33	Toggle Terminal Debug Mode (41PX1/41PX1K) Sub Woofer Enable (41PX1R)
34	No Function (41PX1/41PX1K) Sub Woofer Disable (41PX1R)
35	No Function (41PX1/41PX1K) Setup Trap Switch (41PX1R)
36	No Function (41PX1/41PX1K) Rotation Test (41PX1R)
37	No Function (41PX1/41PX1K) 25" Set (41PX1R)
38	No Function (41PX1/41PX1K) 25" Reset (41PX1R)
39	Reserved for Dealer Commander (41PX1/41PX1K) No Function (41PX1R)
41	Re-initialize NVM
42	Re-initialize Geometry Settings (41PX1/41PX1K) Default Program Info in NVM with Pencoed Factory Channel Cetup (41PX1R)
43	Default Program Info in NVM with Pencoed Factory Channel Setup (41PX1/41PX1K) Default Geometry Settings (41PX1R)
44	Default Favourite Pages to 100, 101, 102, 103
45	Switch Off All Channel Locks
46	Reserved for Dealer Commander
47	Default MSP Settings
48	Set NVM as Non-virgin (41PX1/41PX1K) Restore NVM Test Byte Undo TT49 (41PX1R)
49	Set NVM as Virgin (41PX1/41PX1K) Delete NVM Test Byte Sets Virgin NVM (41PX1R)
51	No Function (41PX1/41PX1K) Text Interlace Odd (non interlace mode = 3) (41PX1R)
52	No Function (41PX1/41PX1K) Text Interlace Even (non interlace mode = 2) (41PX1R)
53	No Function (41PX1/41PX1K) Auto Picture ON (41PX1R)

Code	Function
54	No Function (41PX1/41PX1K) Auto Picture OFF (41PX1R)
55	No Function (41PX1/41PX1K) Auto Cut Off Enable (41PX1R)
56	Set Colour to Minimum and Picture to Maximum (41PX1/41PX1K) Auto Cut Off Disable (41PX1R)
57	Set Colour & Picture to Minimum and Adjust Sub Brightness (41PX1/41PX1K) AV3 Enable (41PX1R)
58	Set Picture Level to 50% (41PX1/41PX1K) AV3 Disable (if TV Text) otherwise AV3 Enable (41PX1R)
59	No Function (41PX1/41PX1K) Auto IF Display (41PX1R)
61	N Board Reset (41PX1/41PX1K) Dolby Pro-logic ON (41PX1R)
62	Toggle the 3.3 V Regulator on A2 Board (41PX1/41PX1K) Noise Left (41PX1R)
63	Toggle Attenuation Switch on Port Expander (41PX1/41PX1K) Noise Right (41PX1R)
64	Smart Link Test - Toggle the Smart Link Pin 50 Times (41PX1/41PX1K) Noise Centre (41PX1R)
65	Active Standby Setup (41PX1/41PX1K) Noise Surround (41PX1R)
66	Restart Digicon (41PX1/41PX1K) DSP Bypass (41PX1R)
67	Save Geometry (41PX1/41PX1K) No Function (41PX1R)
68	Pre-set AV Labels (41PX1/41PX1K) Diagnostics OFF (41PX1R)
69	Toggle Partial Digital Off-flag (41PX1/41PX1K) Diagnostics ON (41PX1R)
71	Select Compact Text / Compact Text-2 (41PX1/41PX1K) LumiSponder Curve 1 (41PX1R)
72	Balance Left / Right (◀ : Left, ▶ : Right, ▲ : Center) (41PX1/41PX1K) LumiSponder Curve 2 (41PX1R)
73	Dual Sound Headphones (▲ : A, ▼ : B) (41PX1/41PX1K) Jungle Select (CXA2000 or CXA2076) (41PX1R)
74	Dual Sound Speakers (▲ : A, ▼ : B) (41PX1/41PX1K) Text H-Position Adjustment (41PX1R)
75	Switch Main Speakers / Center (41PX1/41PX1K) Picture Reset (41PX1R)
76	Dolby Enable / Disable Toggle (41PX1/41PX1K) MSP BG Filter Enabled (41PX1R)
77	Setup Trap Switch (41PX1/41PX1K) Sound Reset (41PX1R)

Code	Function
78	Set Screen Size (41PX1/41PX1K) MSP BG Filter Disabled (41PX1R)
79	Wide Setup
81	Velocity Modulation ON
82	Velocity Modulation OFF
83	Special Picture Mode (41PX1/41PX1K) Picture Rise Step 40ms (41PX1R)
84	Text Interlace Odd (non interlace mode=3) (41PX1/41PX1K) Picture Rise Step 80ms (41PX1R)
85	Text Interlace Even (non interlace mode=2) (41PX1/41PX1K) Picture Rise Step 160ms (41PX1R)
86	Auto Cut Off Enable (41PX1/41PX1K) Picture Rise OFF (41PX1R)
87	Auto Cut Off Disable (41PX1/41PX1K) Select Shop Mode (41PX1R)
88	Diagnostics OFF (41PX1/41PX1K) Compact Text Acquisition Disable (41PX1R)
89	Diagnostics ON (41PX1/41PX1K) Compact Text Acquisition Eable (41PX1R)
91	Clear & Disable OSD (41PX1/41PX1K) Sound Center Mode NORMAL (41PX1R)
92	Eable OSD (41PX1/41PX1K) Sound Center Mode WIDE (41PX1R)
93	D / K Nicam Eable (41PX1/41PX1K) Sound Center Mode PHANTOM (41PX1R)
94	D / K Nicam Disable (41PX1/41PX1K) Toggle Compact Text Acquisition Delay Bit 0 (41PX1R)
95	Reset Language Select Menu on Power Up (41PX1/41PX1K) Toggle Compact Text Acquisition Delay Bit 1 (41PX1R)
96	Set All Program Labels to Default (41PX1/41PX1K) Toggle Compact Text Acquisition Delay Bit 2 (41PX1R)
97	Toggle MHEG Mode (41PX1/41PX1K) Toggle Compact Text Acquisition Delay Bit 3 (41PX1R)
98	No Function (41PX1/41PX1K) Toggle Compact Text Acquisition Delay Bit 4 (41PX1R)
99	No Function (41PX1/41PX1K) Set Test Menu (41PX1R)

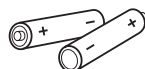
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Getting Started - Overview

Checking the Accessories Supplied

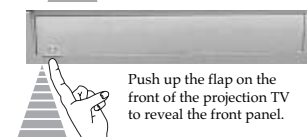


One Remote Control (RM-892)

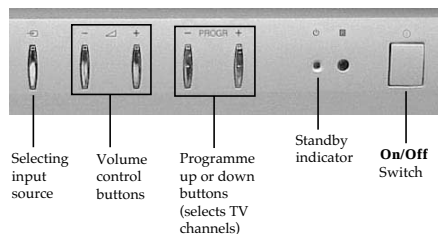


Two batteries (R6 type)

Overview of Projection TV Buttons



Push up the flap on the front of the projection TV to reveal the front panel.



Selecting input source

Volume control buttons

Programme up or down buttons (selects TV channels)

Standby indicator

On/Off Switch



Headphone jack

S Video Input jack

Video Input jack

Audio Input jacks

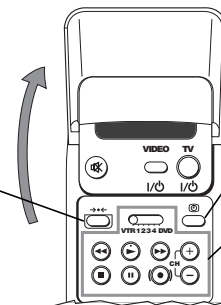
Auto Start up button

Auto Convergence button

SECTION 2 GENERAL

Getting Started - Overview

Overview of Remote Control Buttons



This button does not work on this set.

Displaying the time

Press to switch the time on or off (available only when teletext is broadcast).

VCR operation

For more details, please refer to the section "Remote Control of other Sony Equipment".

Muting the Sound

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

VCR on/off

Press to switch your VCR on or off.

Selecting TV mode

Press to switch off Teletext or video input.

Selecting Teletext

Press to switch on Teletext.

These buttons do not work on this set.

Selecting channels

Press to select channels.

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

Selecting Sound mode

Press repeatedly to change the sound mode.

Selecting Picture mode

Press repeatedly to change the picture mode.

Adjusting TV Volume

Press to adjust the volume of the TV.

To Temporarily Switch Off projection TV

Press to temporarily switch off TV (the standby indicator on the set lights up in red). Press again to switch on TV from standby mode. To save energy we recommend switching off completely when TV is not in use.

After 15-30 minutes without a signal and without any button being pressed, the set switches automatically into standby mode.

Displaying On Screen Information

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

Selecting input source

Press repeatedly until the desired input symbol of the source appears on the screen.

Back to the channel last watched

Press to watch the last channel selected (watched for at least 5 seconds).

Selecting Screen format

Press repeatedly to change the format of the screen (for more details, please refer to the section "Changing the Screen format").

This button only works in Teletext mode. Function associated to this button does not work with this set.

Joystick for menu selection

▲ Scroll Up
▼ Scroll Down
◀ Previous menu or selection
▶ Next menu or selection
OK Confirms your selection

Selecting channels

Press to select the next or previous channel.

Displaying the menu system

Press to display the menu on the screen. Press again to remove the menu display from the screen.

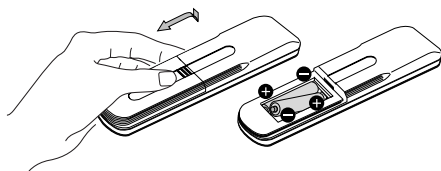
Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to the "Teletext" section of this instruction manual.

GB

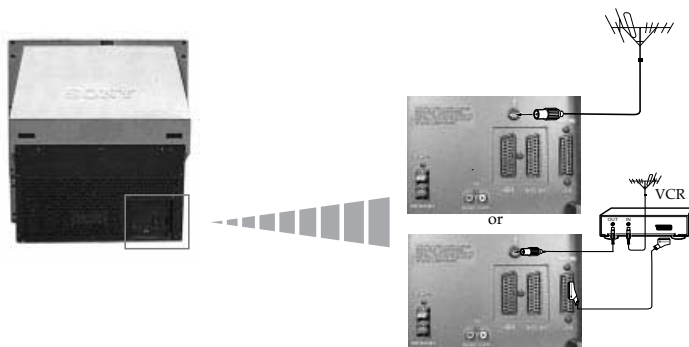
Getting Started - Installation

Inserting Batteries into the Remote Control

-  Make sure you insert the batteries using the correct polarities.
Always remember to dispose of used batteries in an environmental friendly way.

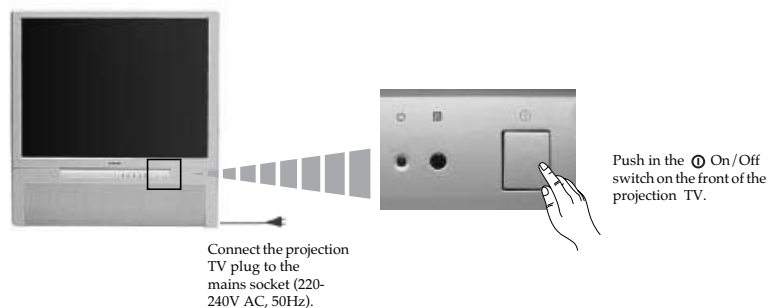


Connecting the Aerial and VCR



-  The Scart lead is optional.
If you use this optional connection it can improve picture and sound quality when using a VCR.
-  If you do not use a SCART lead, after automatically tuning the projection TV refer to the "Manually Tuning the TV" section of this instruction manual, to the tune in the set to the output of your VCR. Also refer to your VCR instruction manual to find out how to find the output channel of your VCR.

Switching on the projection TV



Getting Started - First Time Operation

Selecting Language

-  Use this function to change the language of the menu screens.
The first time that you switch on your projection TV, the Language menu appears automatically.
However, if you need to change the language menu afterwards, select the menu Language in the  (PRESET) menu and proceed in the same way as described below.



- 1** Press the  on/off button on your projection TV set to switch on your TV. The first time you press the on/off button on your TV set, the language menu displays automatically on the TV screen.



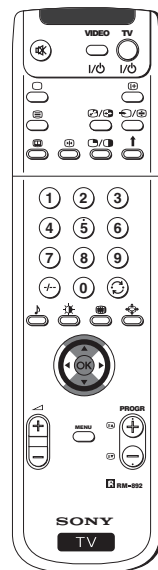
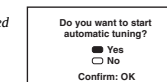
- 2** Push the joystick on the remote control  or  to select the language, then press **OK** to confirm your selection.

-  If you select "French" language, the "Auto Tuning" process will start searching TV channels on "L" TV system (for France) and later B/G.



GB

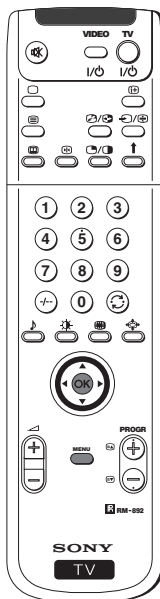
-  The Auto Tuning menu appears on the projection TV screen in the selected language.



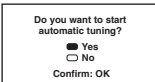
Getting Started - First Time Operation

Automatically Tuning the TV using the Remote Control

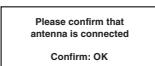
- i** You need to tune the set to receive channels (TV Broadcast). By following the instructions below, this projection TV automatically searches and stores all available channels for you.
- After having selected the language, a new menu appears automatically on the projection TV screen asking you to automatically tune the TV. However, if you need to change or repeat the tuning afterwards (e.g. when you move house), select the menu Auto Programme in the **PRESET** menu and proceed in the same way as described below or, please refer to the section "Automatically Tuning the TV" of this instruction manual.



- 1** Press the **OK** button on the remote control to select **YES**. A new menu appears automatically on the screen asking you to check that the antenna is connected.

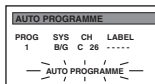


- 2** Confirm that the antenna is connected and then press the **OK** button.

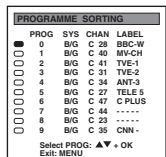


- i** The automatic tuning starts and the message "AUTO PROGRAMME" flashes on the screen.

- A** This procedure could take some minutes. Please, be patient and do not press any button, otherwise the automatic tuning will not be completed.



- When the automatic tuning is finished, the Programme Sorting menu appears on the screen.**



- Notes:**
- To stop the automatic tuning, press the **MENU** button.
 - If you stop the automatic tuning by pressing the **MENU** button, the Programme Sorting menu does not appear automatically on the screen.



Getting Started - First Time Operation

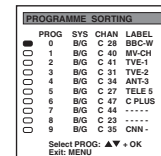
Changing the Programme Order of the TV channels

- i** After all available channels (TV Broadcast) are captioned and stored, a new menu appears automatically on the screen to change the order in which the channels appear on the screen.
- However, if you wish to rearrange the order of the channels afterwards, select the menu Programme Sorting in the **PRESET** menu and proceed in the same way as described in the b) section of this chapter.

a) If you do not wish to change the channel order:

- 1** Press the **MENU** button on the remote control to exit and return to the normal TV screen.

- When the automatic tuning is finished, the Programme Sorting menu appears on the screen.**

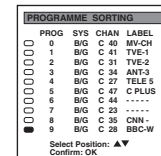
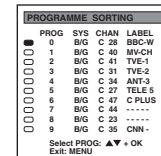


b) If you wish to change the channel order:

- 1** Push the joystick on the remote control to **▼** or **▲** to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press **OK**.

- 2** Push the joystick to **▼** or **▲** to select the new programme number position for your selected channel (TV Broadcast), then press **OK**.

- i** The selected channel now moves to its new programme position and the other channels move accordingly.



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

- 4** Press the **MENU** button to exit and return to the normal TV screen.

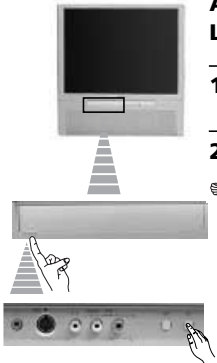
- Your projection TV is now ready for use.**

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Getting Started - First Time Operation

Adjusting Colour Registration (Convergence)

Due to the earth's magnetism, the picture might become undefined and you could see different colours on the outlines of the images. In that case, proceed as follows:



Auto converge the Red, Green, and Blue Lines

1 Push up the flap on the front of the projection TV to reveal the front control panel.

2 Press button on the projection TV.

The Auto Convergence function works for about 30 seconds. When the white cross disappears from the screen, your projection TV is ready for use.

Notes:

The Auto Convergence function does not work:

- when no signal is input.
- when the input signal is weak.
- when the screen is exposed to spotlights or direct sunlight.
- when you watch the teletext broadcast.

If you wish a more accurate convergence adjustment

1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to to select the symbol then push to to enter to the **PRESET** menu.

3 Push the joystick to or or 4 to select Convergence, then push to .

4 Push the joystick to or to select "the line" (vertical and horizontal lines in red and blue) you want to adjust.

- : red vertical line (left/right adjustment)
- : red horizontal line (up/down adjustment)
- : blue vertical line (left/right adjustment)
- : blue horizontal line (up/down adjustment)

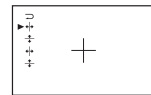
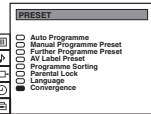
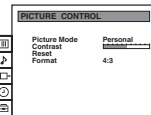
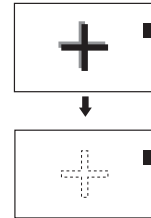
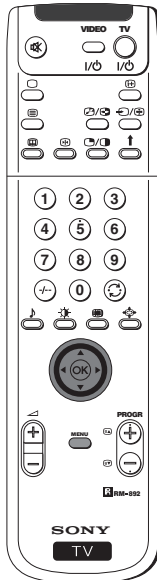
Then press the **OK** button.

5 Push the joystick repeatedly to , , or to converge the selected line with the green line in the centre, then press **OK** to confirm.

6 Repeat steps 4 and 5 to adjust the other lines, until all the lines have overlapped to form a white cross.

7 Press the **MENU** button to exit and return to the normal TV screen. Your projection TV is ready for use.

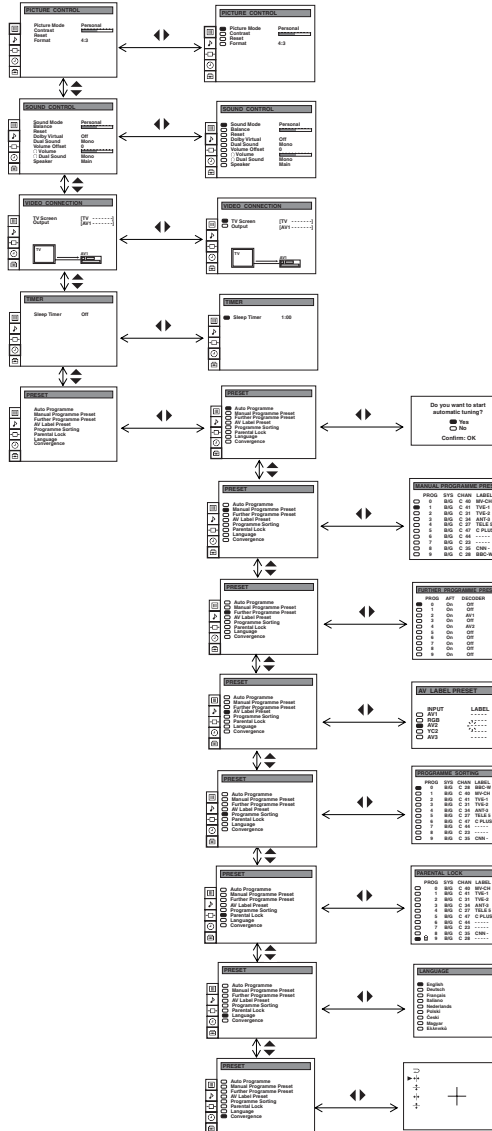
Your projection TV is ready for use.



Getting Started - First Time Operation

Adjusting Colour Registration (Convergence)

Press the **MENU** button on the remote control to display the menu on the screen.



(For different adjustments, please refer to the section "Adjusting the Picture")

(For different adjustments, please refer to the section "Adjusting the Sound")

(For more details, please refer to the section "Selecting the output source for the Euro AV connectors")

(For more details, please refer to the section "Using the Sleep Timer")

(For more details, please refer to the section "Automatically Tuning the TV using the Remote Control")

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(For more details, please refer to the section "Manually Tuning the TV")

(For more details, please refer to the section "Using the Further Programme Preset function")

(For more details, please refer to the section "Using the AV Label Preset function")

(For more details, please refer to the section "Changing the Programme Order of the TV channels")

(For more details, please refer to the section "Locking Programmes")

(For more details, please refer to the section "Selecting Language")

(For more details, please refer to the section "Adjusting Colour Registration Convergence")

Advanced Operation - Advanced Presetting

Automatically Tuning the TV

- ① Besides the explanation in the section "Automatically Tuning the TV using the Remote Control", by following the instructions below, this projection TV also searches and stores automatically all available channels using just one button of the projection TV set and one button of the remote control.



- 1 Push up the flap on the front of the projection TV to reveal the front control panel.

- 2 Press and hold in the button on the TV set for some seconds, until a menu appears automatically on the screen asking you to check that antenna is connected.

- 3 Confirm that the antenna is connected and then press the **OK** button on the remote control.

- ① The automatic tuning starts and the message "AUTO PROGRAMME" flashes on the screen.

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

- 👉 When the automatic tuning procedure is complete, the Programme Sorting menu appears on the screen:
- If you do not wish to change the channel order, press the **MENU** button on the remote control to exit and return to the normal TV screen.
 - If you wish to change the channel order, proceed in the same way as described in the chapter "Changing the Programme Order of the TV channels", section b).

Note: To stop the automatic tuning, press the **MENU** button on the remote control.

Please confirm that antenna is connected
Confirm: OK

Please confirm that antenna is connected
Confirm: OK

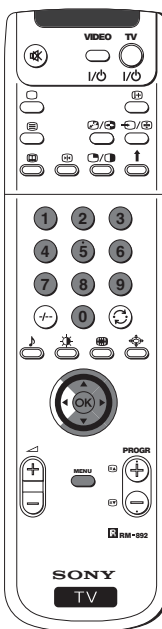
AUTO PROGRAMME
PROG SYS CH LABEL
1 B/G C 28



Advanced Operation - Advanced Presetting

Manually Tuning the TV

- ① Use this function to preset channels or a video input source one by one to the programme order of your choice.



- 1 Press the **MENU** button on the remote control to display the menu on the screen.

- 2 Push the joystick to to select the symbol, then push to to enter to the **PRESET** menu.

- 3 Push the joystick to or to select **Manual Programme Preset**, then push to .

- 4 Push the joystick to or to select on which programme number you want to preset a channel, then push to .

- 5 Push the joystick to or to select the TV Broadcast system (B/G for western european countries, D/K for eastern european countries, L for France or I for United Kingdom) or a video input source (AV1, AV2...), then push to .

- 6 Push the joystick to or to select the channel tuning, "C" for terrestrial channels or "S" for cable channels, then push to .

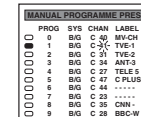
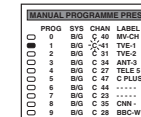
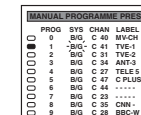
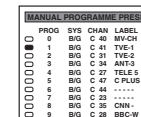
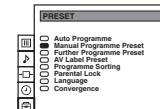
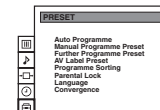
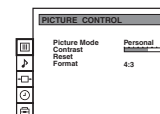
- 7 Press the number buttons to enter the channel number of the TV Broadcast or push the joystick to or to search for the next available channel.
If you do not wish to store this channel, push the joystick to or to continue searching for the desired channel.

- 8 If this is the desired channel you wish to store, press the **OK** button.

- 9 Repeat steps 4 to 8 if you wish to store more channels.

- 10 Press the **MENU** button to exit and return to the normal TV screen.

👉 Your projection TV is now ready for use.



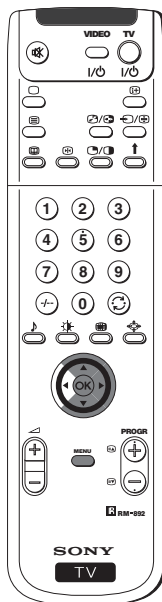
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Advanced Operation - Advanced Presetting

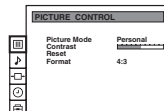
Using the "Further Programme Preset" function

i With this feature you can:

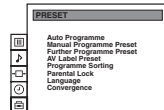
- Even normally the automatic fine tuning (AFT) is operating, however you can manually fine-tune the TV to obtain a better picture reception if the picture is distorted or
- preset the AV3 output for the programme positions of channels with scrambled signals (eg from a pay TV decoder). In this way a connected VCR records the unscrambled signal.



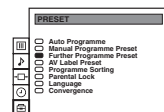
1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to **▼** to select the **PRESET** symbol, then push to **▶** to enter to the **PRESET** menu.



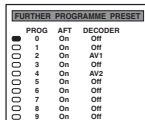
3 Push the joystick to **▼** or **▲** to select **Further Programme Preset**, then push to **▶**.



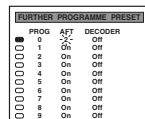
4 Push the joystick to **▼** or **▲** to select the relevant programme number, then push to **▶** repeatedly to select:

- AFT** or
- DECODER**.

The selected item changes colour.



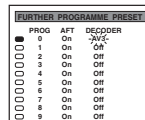
5 a) **AFT**
Push the joystick to **▼** or **▲** to fine tune the channel frequency over a range of -15 to +15, then press the **OK** button.
Repeat steps 4 and 5a) if you wish to fine tune other channels.



b) **DECODER**

Push the joystick to **▼** or **▲** to select **AV3** and press the **OK**.

i The picture from the decoder connected to the Euro AV 3 on the back of the projection TV will appear on this programme number.
Repeat steps 4 and 5b) to preset the AV3 output for other programme positions.



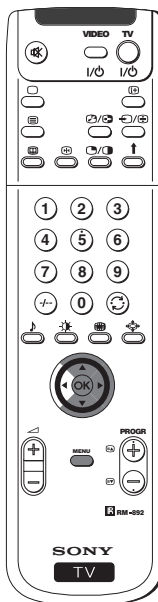
6 Press the **MENU** button to exit and return to the normal TV screen.

i Your projection TV is now ready for use.

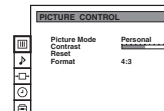
Advanced Operation - Advanced Presetting

Locking Programmes

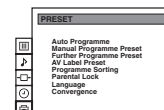
i This feature enables you to prevent undesirable broadcasts appearing on the screen. We suggest you use this function to prevent children from watching programmes you consider unsuitable.



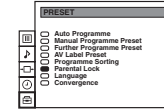
1 Press the **MENU** button on the remote control to display the menu on the screen.



2 Push the joystick to **▼** to select the **PRESET** symbol, then push to **▶** to enter to the **PRESET** menu.

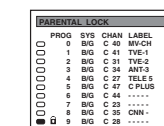


3 Push the joystick to **▼** or **▲** to select **Parental Lock**, then push to **▶**.



4 Push the joystick to **▼** or **▲** to select the programme number with the channel you wish to block, then press the **OK** button.

i The **i** symbol appears before the programme position to indicate this programme is now blocked.
To unblock the programme, press the OK button again. The **i** symbol disappears.



5 Repeat step 4 if you wish to block other channels.

6 Press the **MENU** button to exit and return to the normal TV screen.

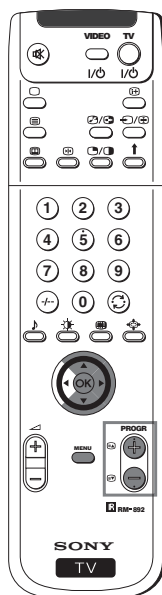
i When you select a blocked programme the screen appears in black, with **i** symbol.

GB

Advanced Operation - Advanced Presetting

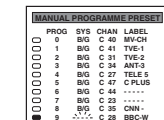
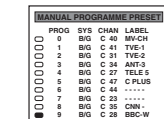
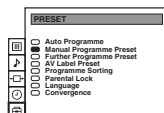
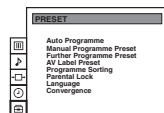
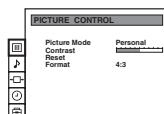
Skipping Programme positions

- ① You can programme this projection TV to skip any unwanted programme numbers when they are selected with the **PROGR** +/- buttons. To cancel this function afterwards, proceed in the same way as described below by selecting the appropriate TV system (B/G, D/K, L or I) instead of "-" in step 5.



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
- 2 Push the joystick to ▼ to select the symbol, then push to ► to enter to the **PRESET** menu.
- 3 Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ►.
- 4 Push the joystick to ▼ or ▲ to select the programme position you want to skip, then push to ► to enter to the **SYS** column.
- 5 Push the joystick to ▼ to select "-", then press the **OK** button to store.
- 6 Repeat steps 4 and 5 to skip other unused programme positions.
- 7 Press the **MENU** button to exit and return to the normal TV screen.

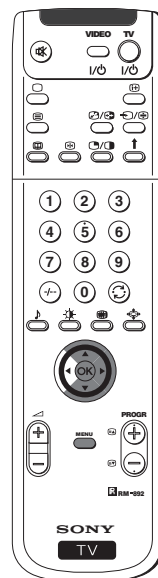
ⓘ When changing channels (TV Broadcasts) with the **PROGR** +/- buttons, the skipped programme positions do not appear. You can, however, still select them using the number buttons.



Advanced Operation - Advanced Presetting

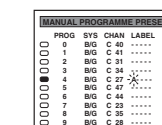
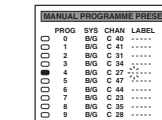
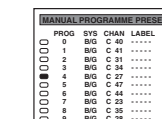
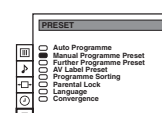
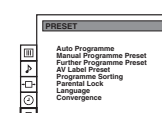
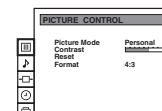
Labelling a channel

- ① Names for channels (TV Broadcasts) are usually taken automatically from Teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers). Using this function, you can easily identify which channel (TV Broadcasts) or video source you are watching.



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
- 2 Push the joystick to ▼ to select the symbol, then push to ► to enter to the **PRESET** menu.
- 3 Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ►.
- 4 Push the joystick to ▼ or ▲ to select the programme number with the channel you wish to name.
- 5 Push the joystick to ► repeatedly until the first element of the **LABEL** column is highlighted.
- 6 Push the joystick to ▼ or ▲ to select a letter or number (select "-" for a blank), then push to ► to confirm this character. Select the other four characters in the same way.
- 7 After selecting all the characters, press the **OK** button.
- 8 Repeat steps 4 to 7 if you wish to label other channels.
- 9 Press the **MENU** button to exit and return to the normal TV screen.

ⓘ When you select a named channel, the name appears for a few seconds on the screen.



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Advanced Operation - Advanced TV Operation

Adjusting the Picture

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



1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick **▶** to enter the **PICTURE CONTROL** menu.

3 Push the joystick to **▼** or **▲** to select the item you wish to change, then push to **▶**. Refer to the table below to choose the item and for the effect of each control:

Picture Mode ▶ Picture Mode ▶ Personal (for individual settings)
▶ Movie (for films)
▶ Live (for live broadcast programmes)

▼ Brightness* ◀ Darker ▶ Brighter

▼ Colour* ◀ Less ▶ More

▼ Sharpness* ◀ Softer ▶ Sharper

▼ Hue** ◀ Greenish ▶ Reddish

Contrast ◀ Less ▶ More

Reset Resets picture to the factory preset levels.

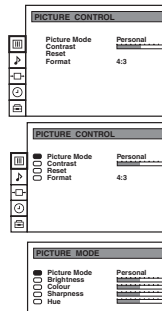
Format (for details refer to the section "Changing the Screen Mode")

* Can only be altered if Personal Picture Mode is selected.
 ** Only available for NTSC colour signal (e.g. USA video tapes).

4 Push the joystick to **◀** or **▶** to alter the selected item, then press the **OK** button to store the new adjustment.

5 Repeat steps 3 and 4 to alter the other items.

6 Press the **MENU** button to exit and return to the normal TV screen.



Changing the Picture Mode Quickly

You can quickly change the Picture Mode without entering the Picture Control menu screen.

1 Press the button on the remote control to directly access the Picture Mode.

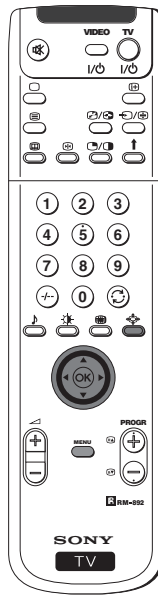
2 Push the joystick to **▼** or **▲** to select your desired picture mode (**Personal**, **Movie** or **Live**), then press the **OK** button to remove the display from the screen.

Personal
 Movie
 Live

Advanced Operation - Advanced TV Operation

Changing the screen mode

Using this Screen Mode feature you can change the aspect ratio of the screen.



1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to **▶** button to enter the **PICTURE CONTROL** menu.

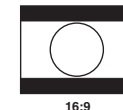
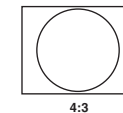
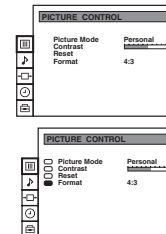
3 Push the joystick to **▼** to select **Format**.

4 Push the joystick to **▶** repeatedly to select:

- **4:3:** conventional 4:3 picture.
- **16:9:** for 16:9 broadcasts.

Press the **OK** button.

5 Press the **MENU** button to exit and return to the normal TV screen.



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Changing the Picture Mode Quickly

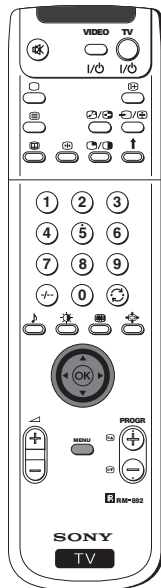
You can quickly change the Picture Mode without entering the Picture Control menu screen.

1 Press the button on the remote control repeatedly to select your desired format screen mode (**4:3** or **16:9**).

Advanced Operation - Advanced TV Operation

Adjusting the Sound

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



1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to **▼** to select the **▶** symbol, then push to **▶** to enter to the **SOUND CONTROL** menu.

3 Push the joystick **▼** or **▲** to select the item you wish to change, then push to **▶**.
Refer to the table below to chose the item and for the effect of each control.

Sound Mode ▶ **Mode** ▶ Personal (for individual settings)
▶ Rock
▶ Jazz
▶ Pop

▼ **Treble*** ◀ Less ▶ More

▼ **Bass*** ◀ Less ▶ More

Balance ◀ Left ▶ Right

Reset ☹ Resets sound to the factory preset levels.

Dolby Virtual** ▶ Off: Normal
▶ On: Simulates the sound effect of Dolby Pro Logic surround.

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)

Volume Offset ◀ -12 ▶ +12
The channel volume level can be adjusted over a range of -12 to +12.

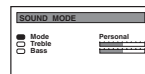
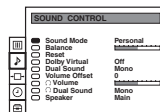
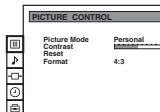
Headphones:
🔊 **Volume** ◀ Less ▶ More

🔊 **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)

Speaker ▶ **Main:** sound from projection TV set
▶ **Centre in:** sound from external amplifier

* Can be only altered if "Personal" mode is selected.



Advanced Operation - Advanced TV Operation

4 Push the joystick **◀** or **▶** to alter the selected item, then press the **OK** button to store the new adjustment.

5 Repeat steps 3 and 4 to alter the other items.

6 Press the **MENU** button to exit and return to the normal TV screen.

i ** This TV has been designed to create "Dolby Surround" sound effect simulating the sound of four speakers with two speakers, in case the broadcasted audio signal is a Dolby Surround encoded programme. Besides that, the sound effect can also be improved by connecting your external amplifier (for details refer to "Connecting to external audio Equipment" on page 27).

** Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol **DD** are trademarks of Dolby Laboratories.

Changing Sound Mode Quickly

i You can quickly change Sound mode without entering the Sound Control menu screen.

1 Press the **▶** button on the remote control to directly access to the Sound Mode.

2 Push the joystick to **▼** or **▲** to select your desired sound mode (**Personal**, **Rock**, **Jazz** or **Pop**), then press the **OK** button to remove the display from the screen.



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Advanced Operation - Advanced TV Operation

Using the Sleep Timer

This function provides an overview of some of the features available on this set.



1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to **▼** button to select the symbol, then push to **▶** to enter to the **TIMER** menu.

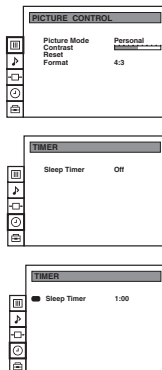
3 Push the joystick to **▶**, then push to **◀** or **▶** repeatedly to set the time period delay

Off ▶ 0:30 ▶ 1:00..... 4:00 hours

4 Press the **OK** button.

5 Press the **MENU** button to exit and return to the normal TV screen.

One minute before the projection TV switches into standby mode, the indication "0:01" is displayed on the screen automatically.



Notes:

- When watching the TV, press the button on the remote control to display the time remaining.
- To return to normal operation from standby mode, press the **TV I/O** button on the remote control.

Teletext

Viewing Teletext

Teletext is an information service transmitted by most TV stations.

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

Selecting Teletext

1 Select the TV channel which carries the teletext service you wish to view.

2 Press the button on the remote control to switch on the teletext.

3 Input three digits for the page number, using the numbered buttons on the remote control. (If you have made a mistake, type in any three digits and then, re-enter the correct page number).

4 Press the button to switch off teletext.



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Using other Teletext functions

TO	PRESS THE BUTTON
Access the next or preceding page	for next page or for the preceding page
Superimpose teletext on to the TV	Press again to cancel teletext mode.
Freeze a teletext page	Press again to cancel the freeze.
Reveal concealed information (e.g. answer to a quiz)	Press again to cancel.



Using Fastext

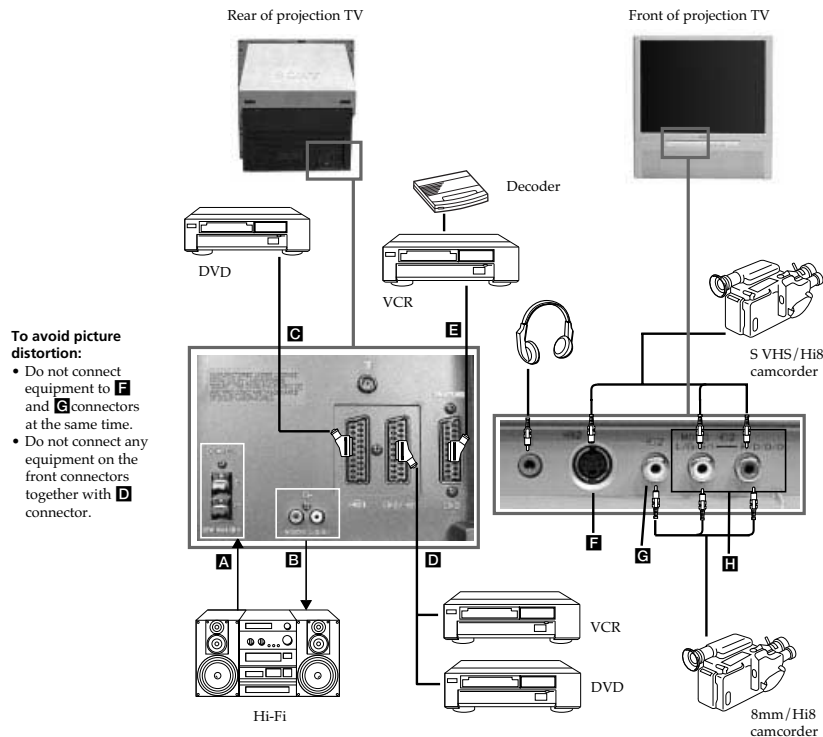
Fastext lets you access pages with one button stroke.

When Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) on the remote control to access the corresponding page.

Optional Connections

Connecting Optional Equipment

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



Acceptable input signal

- A** Centre speaker input.
Set "Speaker" on the SOUND CONTROL menu to "Centre in".
- B** No inputs
- C** Audio/video and RGB signal
- D** Audio/video and S video signal
- E** Audio/video signal

- F** S Video signal
- G** Video signal
- H** Audio signal

Available output signal

- No outputs
- Audio signal.
- Video/audio displayed on TV tuner.
- Video/audio from selected source.
- Video/audio from selected source (the same output source as the **G** 2/**H** 2 connector)
- No output.
- No output.
- No output.

Optional Connections

Using Optional Equipment

Additional Information when connecting equipment

Connecting a VCR

We recommend you connect your VCR to the **D** or **E** socket using a scart lead. If you do not have a scart lead, use the "Manually Tuning the TV" section of this instruction manual to tune in the VCR signal to TV programme number "0". If your video supports Smartlink please refer the "Smartlink" section of this instruction manual.

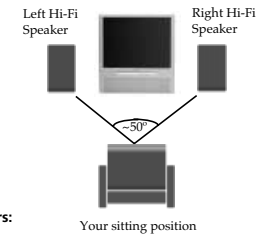
Connecting to External Audio Equipment

1 To listen to the audio of your projection TV on the Hi-Fi equipment:

Plug in your Dolby Prologic system decoder amplifier to the **B** sockets on the rear of the projection TV if you wish to amplify the audio output from the TV.
The output level from **B** sockets can be varied by adjusting the volume of the headphones. Refer to the "Adjusting the sound" section of this instruction manual to adjust the volume of the headphones.

To enjoy "Dolby Virtual" sound effect through your Hi-Fi equipment:

Place the speakers of your equipment in front of your sitting place and besides the TV set but keeping a distance of 50 cm from each speaker to the TV set.
Then by using the menu system, select the menu "Sound Control" and set "Dolby Virtual" to "On".



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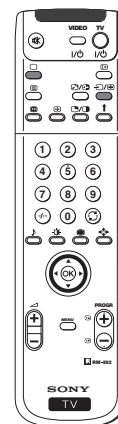
2 To listen to the Dolby amplifier equipment on the projection TV speakers:

Plug in your Hi-Fi equipment to the **A** socket on the rear of the projection TV if you wish to listen to the audio output from your Hi-Fi on the projection TV speaker. If you have a Dolby amplifier, connect the centre output from your amplifier to the **A** socket to use the projection TV as a centre speaker. Refer to the "Adjusting the Sound" section of this instruction manual and set the option "Speaker" to "Centre in".

For mono equipment

Connect the phono plug to the L/G/S/I socket on the front of the TV and select the **2** input signal using the instructions on this page below.

Select and View the Input Signal



1 Connect your equipment to the designated projection TV socket, as it is indicated on the previous page.

2 Switch on the connected equipment.

3 Press the **2** button repeatedly on your remote control until the correct input symbol appears on the screen.

Symbol Input signals

- 1** Audio/video input signal through the Euro AV connector **C**
- 2** RGB input signal through the Euro AV connector **C**
- 3** Audio/Video input signal through the Euro AV connector **D** or the phono sockets **H** and **G**.
- 4** Audio/S Video input signal through the Euro AV connector **D** or the sockets **H** and **G**.
- 5** Audio/Video input signal through the Euro AV connector **E**.

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

Optional Connections

Smartlink

① Smartlink is a direct link between your projection TV set and a VCR.

For Smartlink you need:

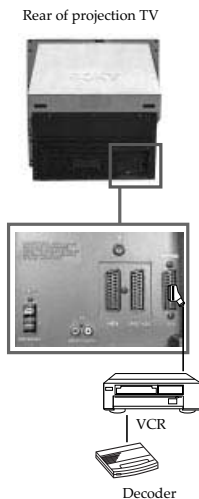
- A VCR which supports Smartlink, NextView Link, Easy Link or Megalogic.
- Megalogic is a trademark of Grundig Corporation.
EasyLink is a trademark of Philips Corporation.
- A fully-wired 21 pin SCART cable to connect your VCR to the Euro AV connector ③-3 (SMARTLINK) on the rear of the Projection TV.

The features of Smartlink are:

- Tuning information such as the channel overview are downloaded from the Projection TV set to the VCR.
- Direct projection TV recording: While watching TV you need to press just one button on the VCR to record this programme.
- Projection TV in standby mode: Press the "Play ►" button on your VCR to switch the TV automatically on.

⚠ If you have connected a decoder to a VCR which supports Smartlink feature, select the menu Further Programme Preset in the  (PRESET) menu and select **DECODER AV3** to each codified channel. For more details, please refer to the section "Using the Further Programme Preset function" of this instruction manual.

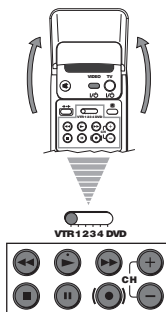
⚠ For more information on Smartlink, please refer to the Instruction Manual of your VCR.



Remote Control of other Sony Equipment

① Using the buttons underneath the cover of the remote control you can control other Sony equipment.

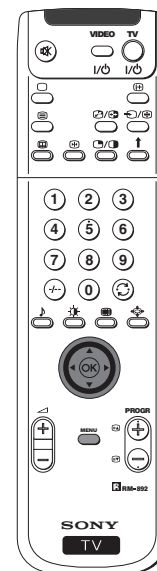
- 1 Open the cover of the Remote Control.
 - 2 Set the selector VTR 1234 DVD according to the equipment you want to control:
VTR 1 Beta VCR
VTR 2 8 mm VCR
VTR 3 VHS VCR
VTR 4 Digital Video (DCR-VX 1000/9000 E, VHR-1000)
DVD Digital Video Disk
 - 3 Use the buttons underneath the cover on the remote control to operate the equipment.
- If your video equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1234 DVD selector on the TV Remote Control.
 - If the equipment does not have a certain function, the corresponding button on the remote control does not work.



Optional Connections

Selecting the output source for the Euro AV connectors

① Using this function you can record on your VCR any signal coming from an external equipment connected to the Euro AV connectors ③-2/-③ 2 or ③-3 placed on the rear of the projection TV.
In that case you have to select the output source as described below (if your VCR support Smartlink, this procedure is not necessary).



1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the  symbol, then push to ► button to enter to the **VIDEO CONNECTION** menu screen.

3 Push the joystick to ▼ or ▲ button to highlight:

TV Screen (input source for the TV screen) or

Output (output source available for ③-2/-③ 2 and ③-3 Euro AV connectors).

Push the joystick to ► to confirm.

4 Push the joystick to ◀ or ▶ repeatedly to select the desired source:

TV Screen **TV, AV1, RGB, AV2, YC2 or AV3**

Output **TV, AV1, AV2, YC2, AV3 or AUTO**

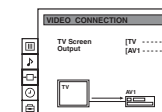
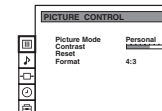
Then press the **OK** button to confirm.

⚠ If you select "**AUTO**", the output signal will always be the same one that is displayed on the screen.

⚠ If you have connected a decoder, please remember to change back the Output to "**TV**" for correct unscrambling.

5 Press the **MENU** button to exit and return to the normal TV screen.

👉 The selected signal is available for your optional equipment connected to the appropriate Euro AV connector.

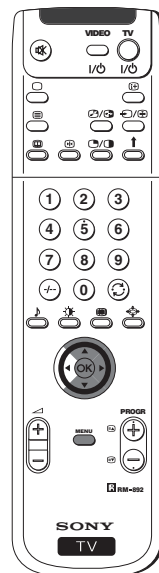


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Optional Connections

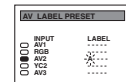
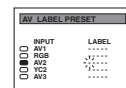
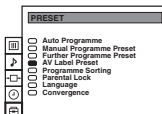
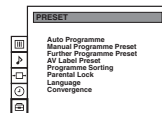
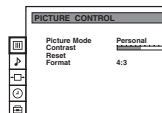
Using the AV Label Preset feature

- ① This function enables you to designate a name to the optional equipment you have connected to the sockets of this projection TV. This name can be up to 5 characters (letters or numbers).



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
- 2 Push the joystick to **▼** to select the symbol, then push to **▶** to enter to the **PRESET** menu screen.
- 3 Push the joystick to **▼** or **▲** to select **AV Label Preset**, then push to **▶**.
- 4 Push the joystick to **▼** or **▲** select the input source you wish to name (eg AV2), then push to **▶** to highlight the first element of the **LABEL** column.
- 5 Push the joystick to **▼** or **▲** to select a letter or number (select “-” for a blank) then push to **▶** to confirm this character. Select the other four characters in the same way.
- 6 After selecting all the characters, press the **OK** button.
- 7 Repeat steps 4 to 6 if you wish to label other input sources.
- 8 Press the **MENU** button to exit and return to the normal TV screen.

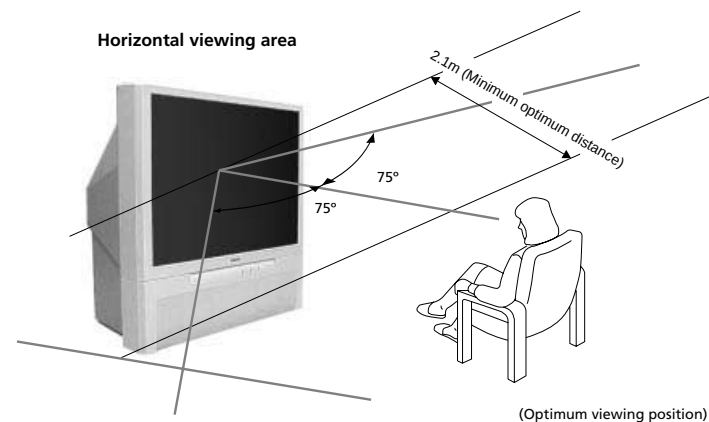
👉 Whenever the equipment with the labeled input is selected for use, the name appears for a few seconds on the screen.



Additional Information

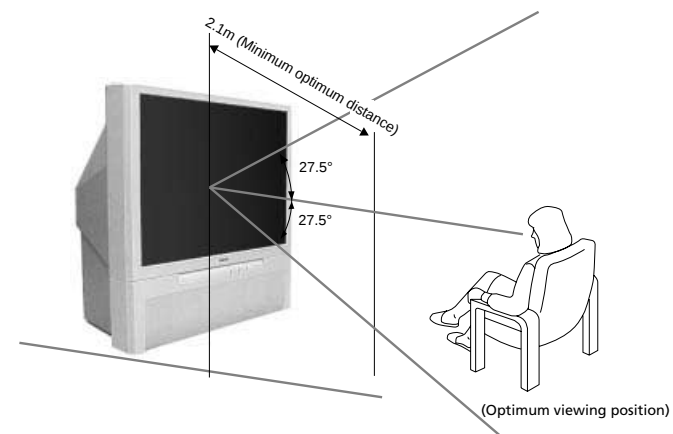
Optimum Viewing Area

- ① For the best picture quality, try to position the projection TV so that you can view the screen from within the areas shown below.



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Vertical viewing area



Additional Information

Troubleshooting

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

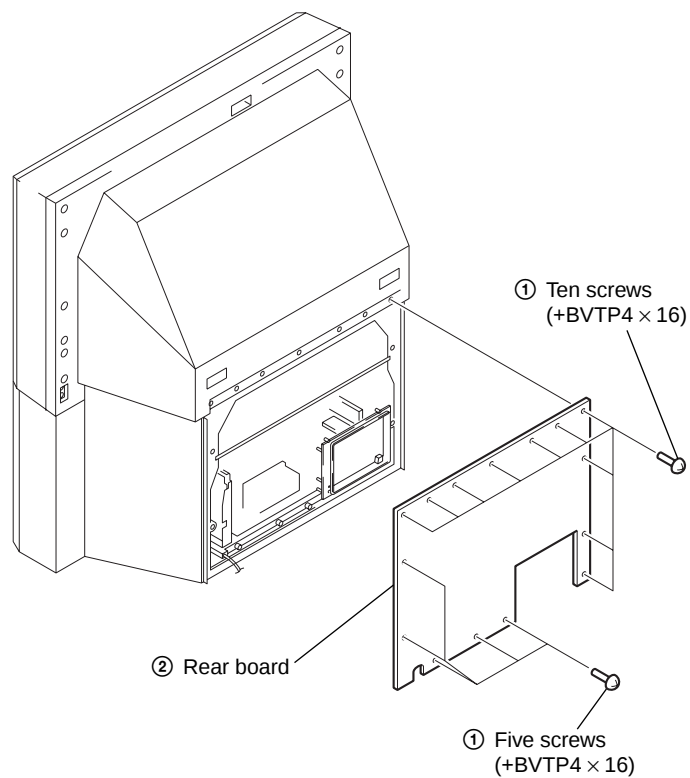
Problem	Solution
No picture (screen is dark), no sound.	• Plug the projection TV in. • Press the  button on the front of the projection TV. • If the  indicator is on, press TV I/O button or a programme number button on the remote control. • Check the aerial connection. • Turn the projection TV off for 3 or 4 seconds and then turn it on again using the  button on the front of the projection TV.
Poor or no picture (screen is dark), but good sound.	• Using the MENU system, select the Picture Adjustment display. Adjust the brightness, picture and colour balance levels. • From the Picture Adjustment display select Reset to return to the factory settings.
Poor picture quality when watching a RGB video source.	• Press the  button repeatedly on the remote control until the RGB symbol  is displayed on the screen.
Good picture, no sound	• Press the  +/- button on the remote control. • If  is displayed on the screen, press the  button on the control. • Check that "Main" speaker is selected on the SOUND CONTROL menu.
No colour on colour programmes	• Using the MENU system, select the Picture Adjustment display. Adjust the colour balance. • From the Picture Adjustment display select Reset to return to the factory settings.
Distorted picture when changing programmes or selecting teletext	• Turn off any equipment connected to the 21 pin Euro connectors on the rear of the TV.
Noisy picture when viewing TV channel	• Adjust Fine Tuning (AFT) to obtain better picture reception. For details, please refer to the section "Using the Further Programme Preset function"
Remote control does not function	• Replace the batteries.
The standby indicator  on the set flashes.	• Contact your nearest Sony service centre.

GB

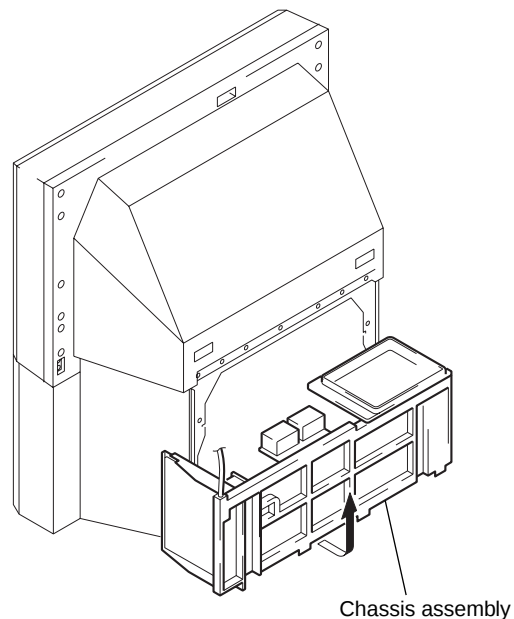
-  • If you continue to have these problems, have your TV serviced by qualified personnel.
- NEVER open the casing yourself.

SECTION 3 DISASSEMBLY

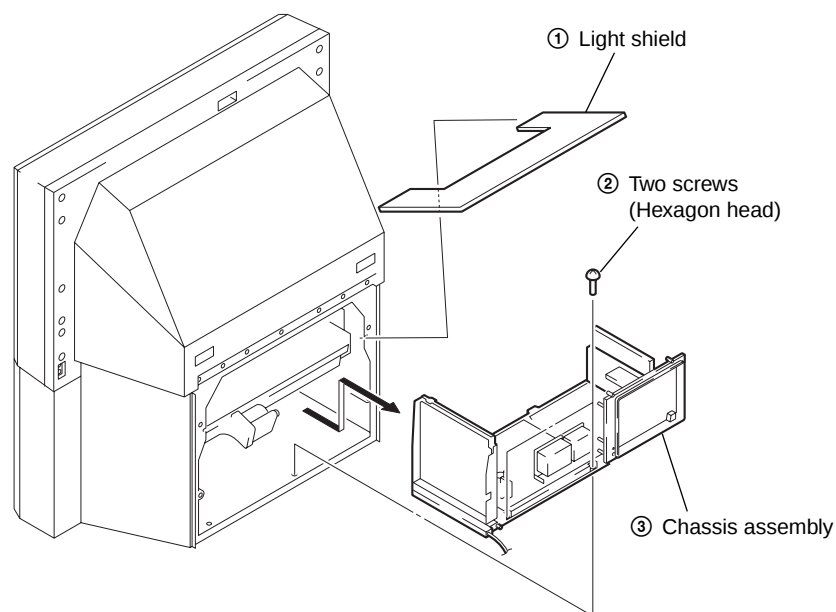
3-1. REAR BOARD REMOVAL



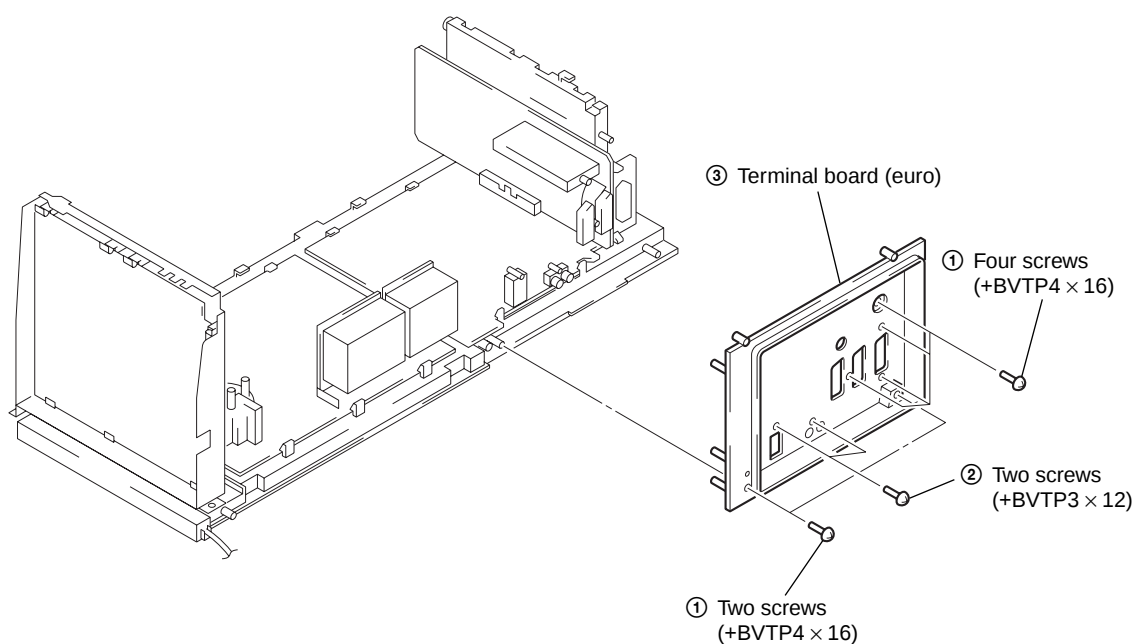
3-3. SERVICE POSITION



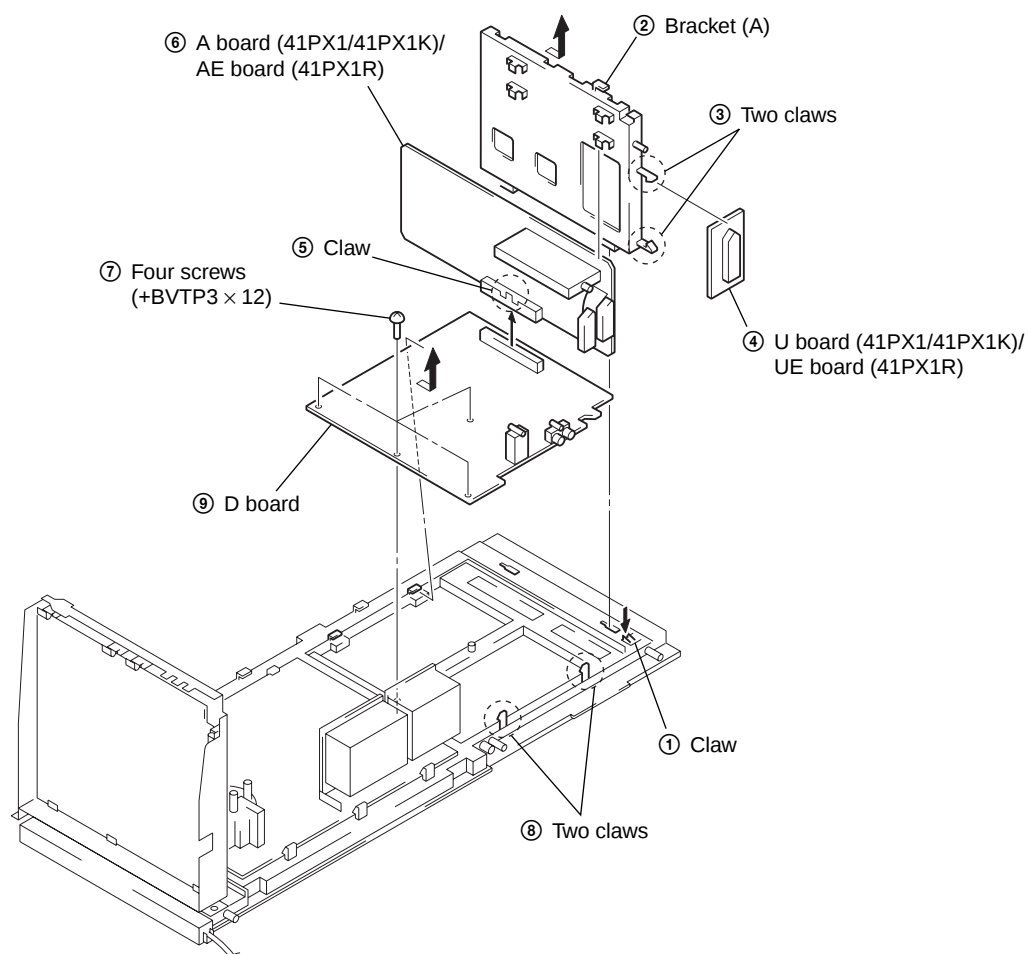
3-2. CHASSIS ASSEMBLY REMOVAL



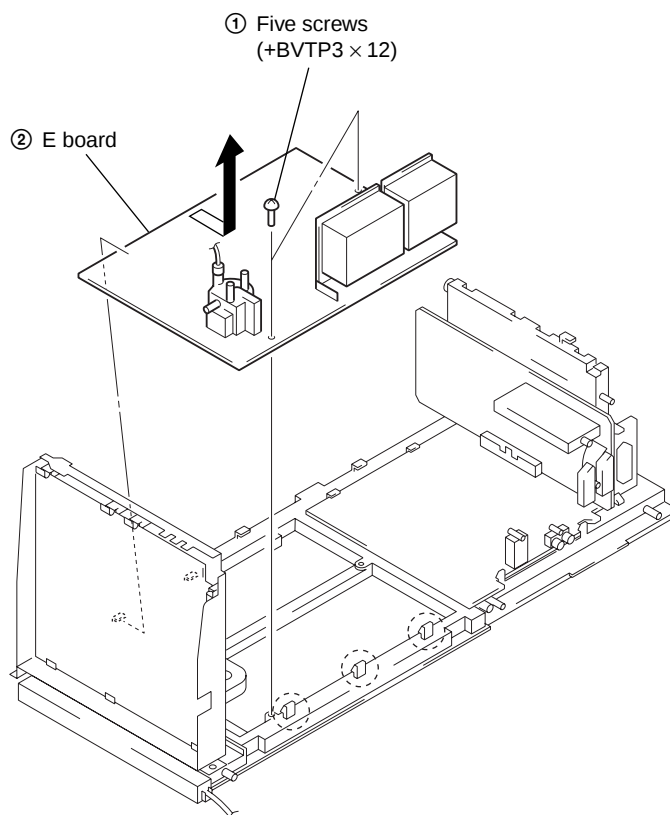
3-4. TERMINAL BOARD REMOVAL



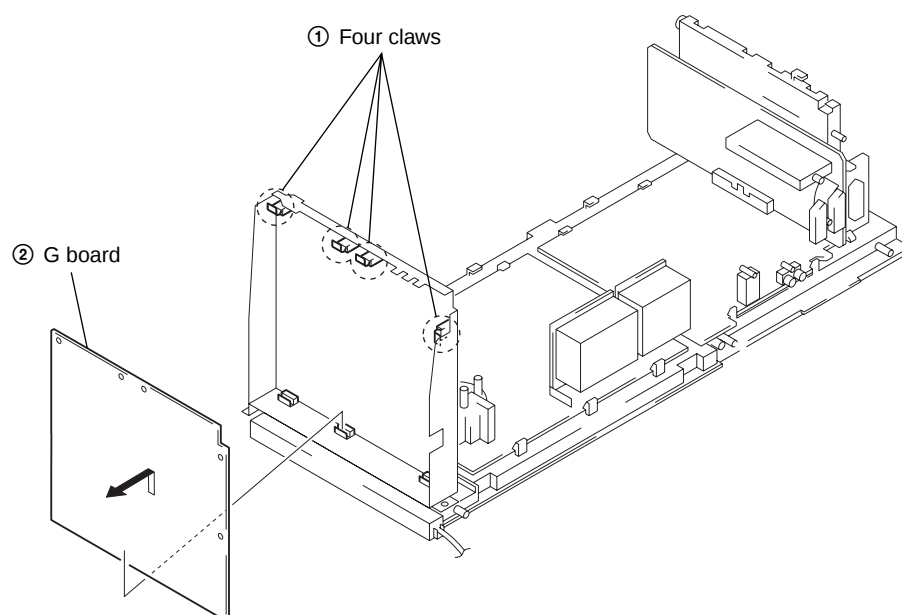
3-5. U (UE), A (AE) AND D BOARDS REMOVAL



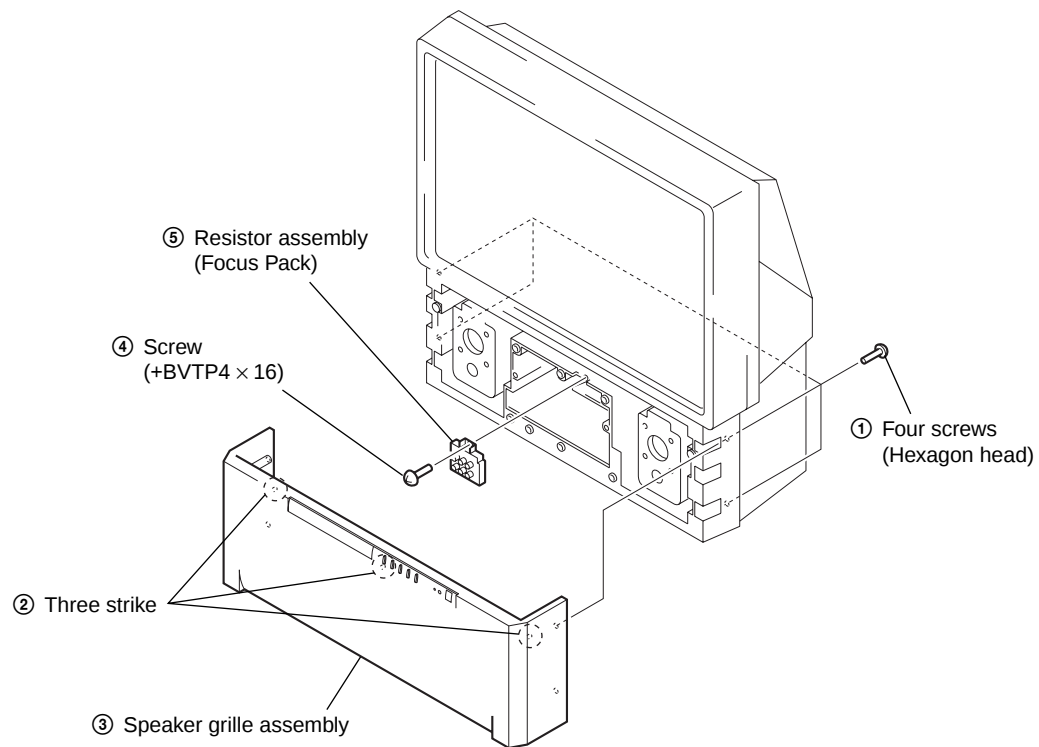
3-6. E BOARD REMOVAL



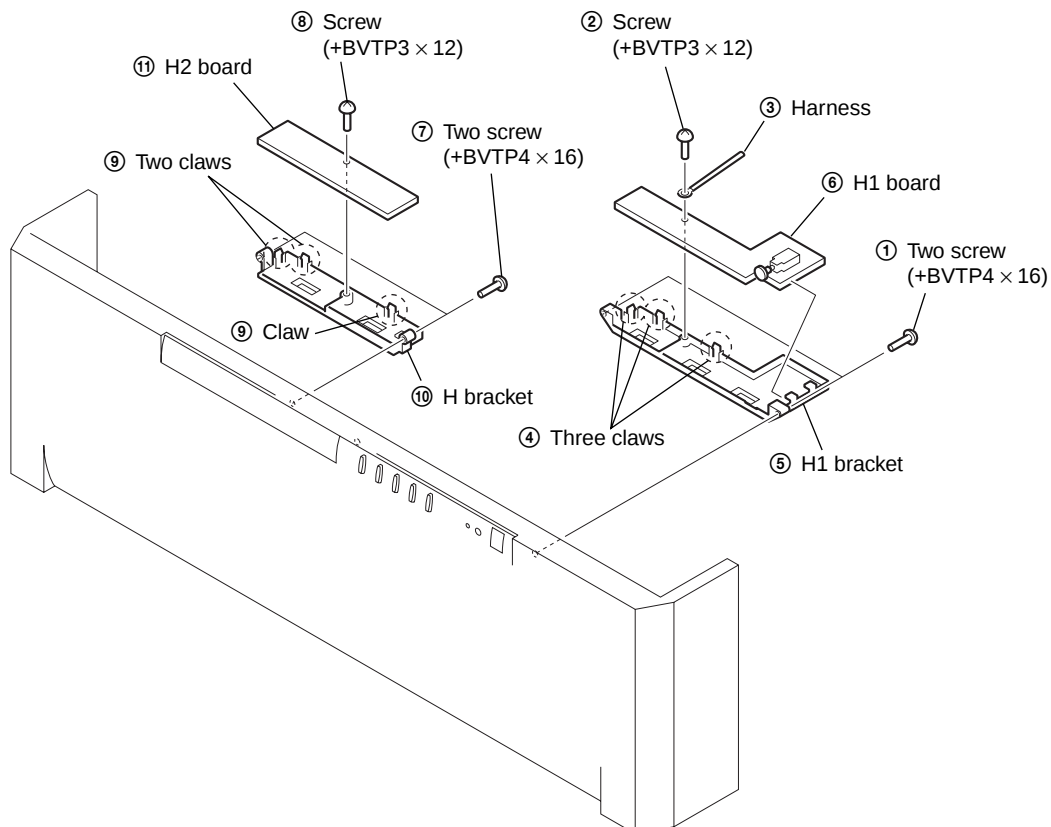
3-7. G BOARD REMOVAL



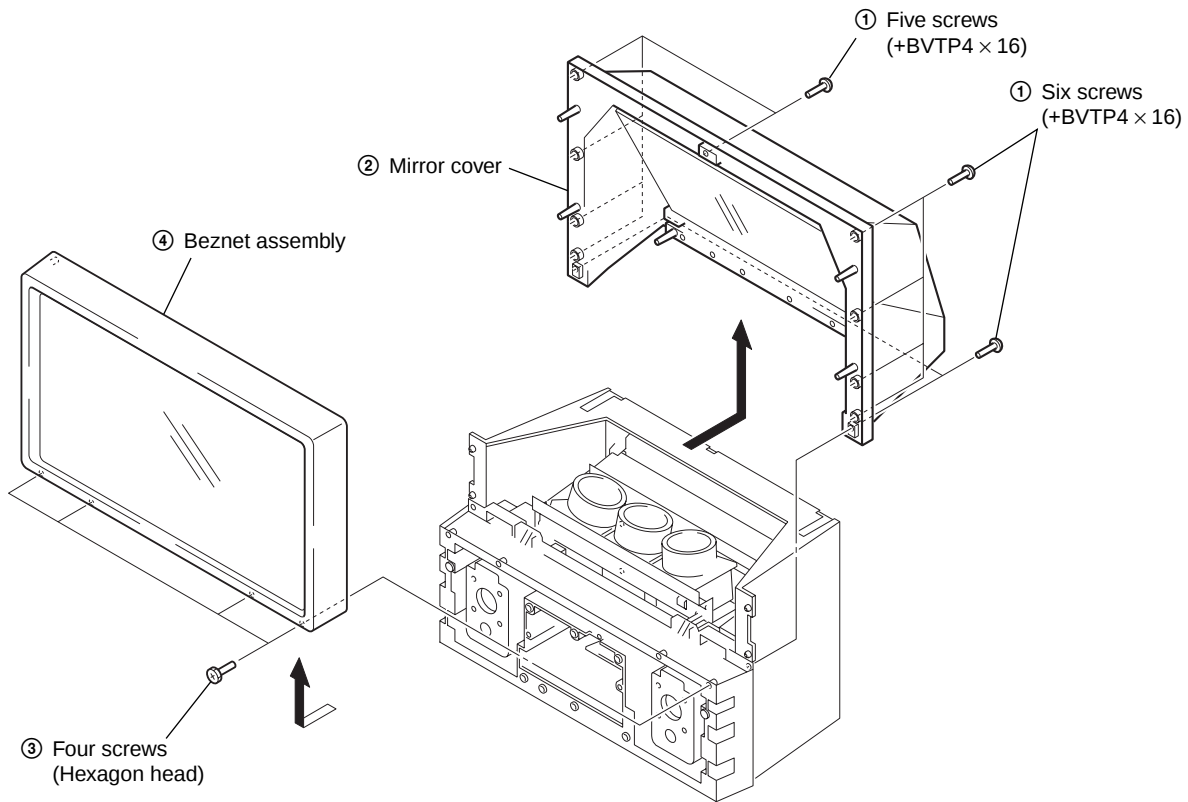
3-8. SPEAKER GRILLE AND RESISTOR ASSEMBLY (FOCUS PACK) REMOVAL



3-9. H1 AND H2 BOARDS REMOVAL

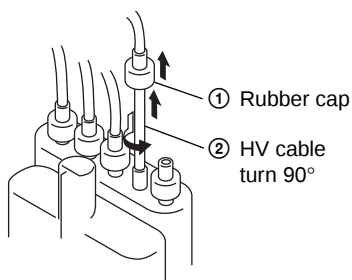


3-10. MIRROR COVER AND BEZNET ASSEMBLY REMOVAL

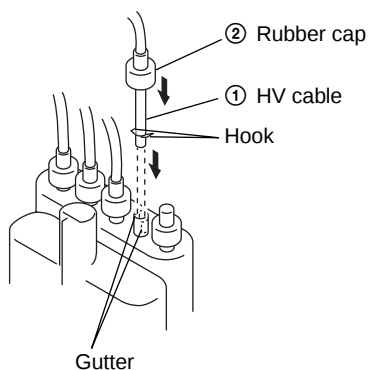


3-11. HIGH-VOLTAGE CABLE REMOVAL AND INSTALLATION

(1) Removal

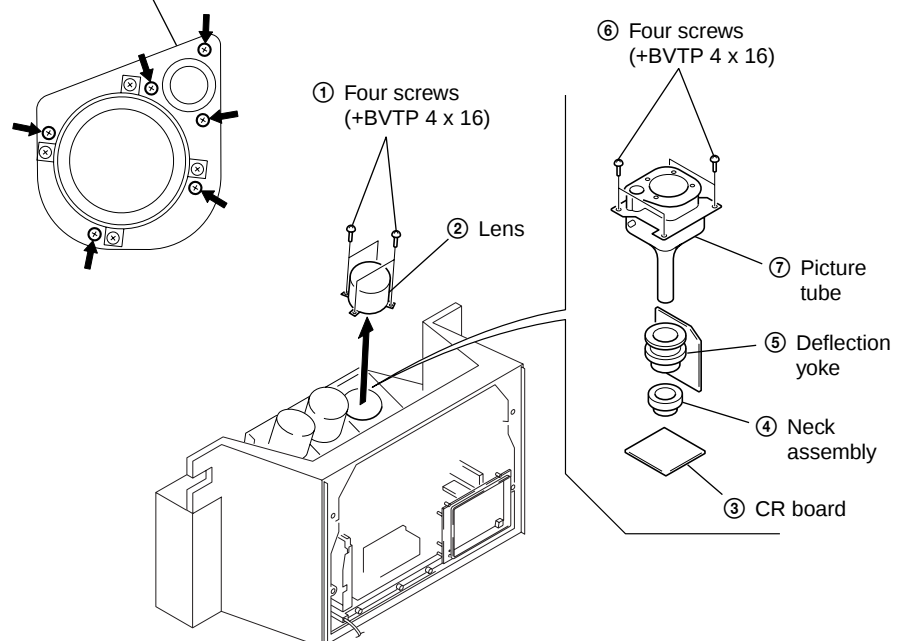


(2) Installation



3-12. PICTURE TUBE REMOVAL

Removing the arrow-marked screw is strictly inhibited. If removed, it may cause liquid spill.



SECTION 4

SET-UP ADJUSTMENTS

4-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the focus pack all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

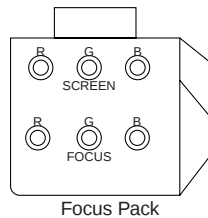
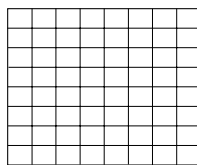


Fig. 4-1

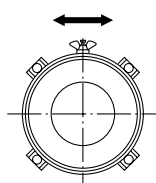
4-2. FOCUS ROUGH ADJUSTMENT

1. Loose the lens screw.
2. Set in the service mode. (Refer to SECTION 6.)
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Press "MENU" on the Commander and select Convergence and OSD CHSW = "00" to display the test signal (crosshatch) on the screen.
5. Rotate the green lens and align to obtain the best lens focus at the center area.
6. Rotate the green focus VR on the focus pack and align to obtain the best electrical focus at the center area.
7. Perform the same alignment for red and blue lenses and electric focus.
8. Fix lens screw.



Test signal

Fig. 4-2



Lens
Fig. 4-3

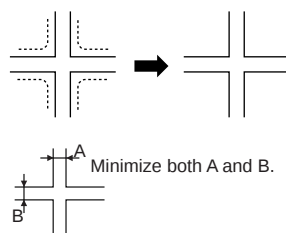


Fig. 4-4

4-3. SCREEN (G2) ADJUSTMENT

1. Connect JIG (A) to 200 V and GND.
2. Select VIDEO1 mode without signals.
3. Connect JIG to the TP701(KR), TP731(KG) or TP761(KB) of CR board, CG board and CB board.
4. Adjust R, G and B screen voltage to until retrace line disappears with screen VR on the focus pack.

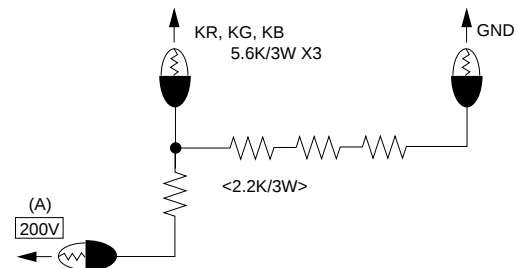
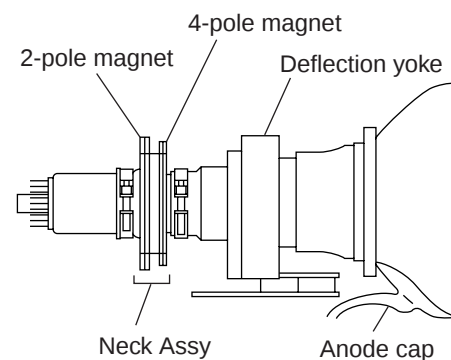


Fig. 4-5

4-4. DEFLECTION YOKE TILT ADJUSTMENT

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Loosen the deflection yoke setscrew and align the tilt of the Deflection yoke so that the bars at the center of the monoscope pattern are horizontal.
4. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
5. The tilt of the deflection yoke for red and blue is aligned the same as was done for green.



Make sure deflection yoke is touching CRT closely.

Fig. 4-6

4-5. 2-POLE MAGNET ADJUSTMENT (GREEN AND RED)

1. Receive the Dot signal and set PICTURE to 80%, BRIGHTNESS to 50%.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the right and set to over focus to enlarge the spot.
4. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the just focus spot.
(Center of the dot does not move)
5. Align the green focus VR and set for just (precise) focus.
6. Perform the same alignment for red.

Use the center dot

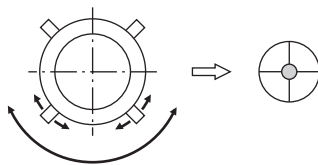
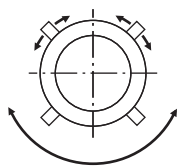


Fig. 4-7

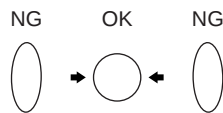
4-6. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal and set PICTURE to 80%, BRIGHTNESS to 50%.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the left and set to under focus to enlarge the spot.
4. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle for green and red.
5. Perform the same alignment for red and blue.

Use the center dot



[GREEN and RED]



[BLUE]

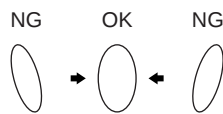


Fig. 4-8

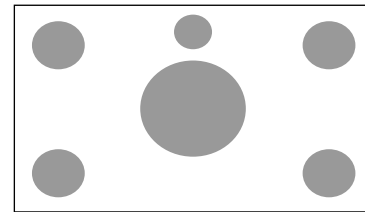
4-7. GREEN, RED AND BLUE FOCUS ADJUSTMENT

4-7-1. Green, Red and Blue Lens Focus Adjustment

1. Receive the Monoscope signal and set PICTURE to minimum, BRIGHTNESS to 50%.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green lens and adjust to obtain the best lens focus in all areas.
4. Fix lens screw.
5. Repeat above process for red and blue.

4-7-2. Green, Red and Blue Electrical Focus Adjustment

1. Receive the Monoscope signal and set PICTURE to minimum, BRIGHTNESS to 50%.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green focus VR on the focus pack and adjust to obtain the best electrical focus in all areas.
4. Repeat above process for red and blue.



Adjust Point : Circulars Areas

Fig. 4-9

SECTION 5

SAFETY RELATED ADJUSTMENT

When replacing the following components marked with  on the schematic diagram, always check hold-down voltage and if necessary re-adjust.

Part Replaced ()
R1

Part Replaced ()
E Board C515, C516, C554, D504, D507, L506, Q502, R1, R514, R516, R517, T502, T504 (FBT)
G Board IC6005

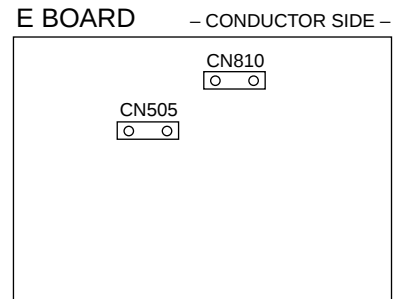


Fig. 5-3

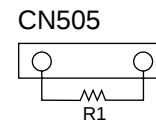


Fig. 5-4

5-1. HV HOLD-DOWN ADJUSTMENT

1. Connect HV static voltmeter to HV Block.
2. Remove CN810 and connect External Power Supply to CN810 ② pin (+135 V) and ① pin (GND).

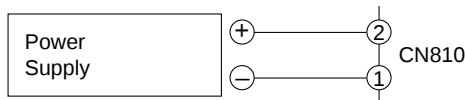


Fig. 5-1

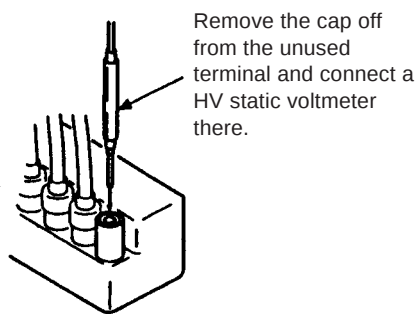


Fig. 5-2

3. Turn on the set.
4. Receive the Dot signal and set PICTURE/BRIGHTNESS to minimum.
5. Slowly up the supply voltage from 0 V to 135 V until hold-down circuit works (picture disappear).
6. Read the HV static voltmeter of peak HV voltage.
Spec : 33.7 to 36.0 KV
7. If Hold-down voltage is less than 33.7 KV then solder R1 = 820 K and check if the voltage is within the spec.
8. If hold-down voltage is over than 36.0 KV then take-off R514 and solder R1 = 9.1 K and check if the voltage is within the spec.

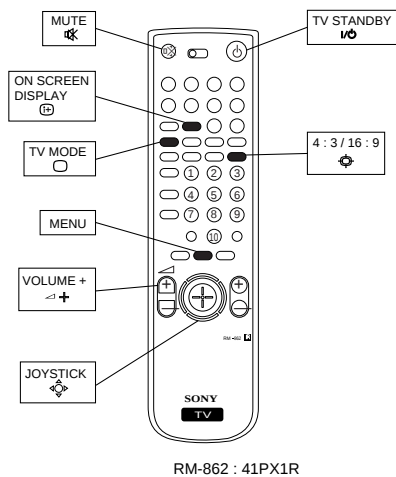
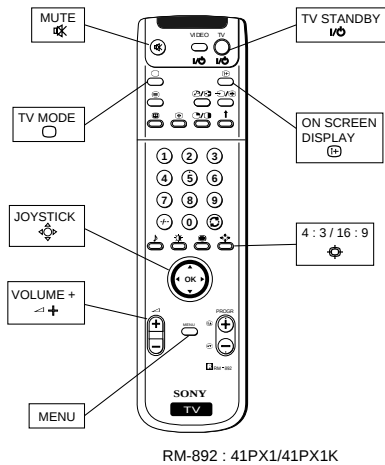
SECTION 6

ELECTRICAL ADJUSTMENTS

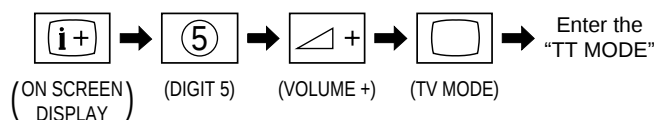
6-1. HOW TO ENTER THE SERVICE MODE

6-1-1. Adjustment Method with Commander

Service adjustment to this model can be performed with the supplied remote commander RM-892 (41PX1/41PX1K) or RM-862 (41PX1R).



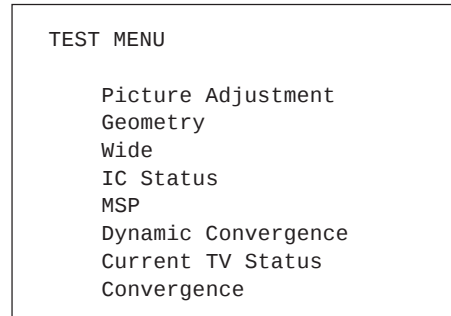
1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.



“TT - -” will appear in the top right corner of the screen.
Other status information will also be displayed.

3. Press “MENU” on the commander to obtain the following menu on the screen.

(With some models, display items may be different from the following)



4. Move to the corresponding adjustment using the joystick (▲ or ▼ : up or down) on the commander.
5. Move the joystick to the right (▶) to enter the selected adjustment.
6. Press “OK” to exit.
7. Before TURN OFF is necessary:
DATA WRITE : Press “MUTE” + “0”
DATA COPY : Press “ON SCREEN DISPLAY” + “0”
8. Turn off the power to quit the service mode when adjustments are completed.

6-1-2. Screen Display on the Test Menu

(With some models, display items and contents may be different from the following)

Picture Adjustment

PICTURE ADJUSTMENT

AFC Mode	1	0 - 3
Ref Position	3	0 - 3
SCP BGR	1	0 - 3
SCP BGF	1	0 - 3
Trap F0	0	0 - 15
Sub Contrast	11	0 - 15
Sub Colour	10	0 - 15
Sub Brightness	13	0 - 63
Green Drive	51	0 - 63
Blue Drive	43	0 - 63
Green Cutoff	8	0 - 15
Blue Cutoff	10	0 - 15
Gamma	1	0 - 3
Pre / Overshoot	2	0 - 3
Y Delay	3	0 - 7
D Pic	ON	ON/OFF
D Colur	OFF	ON/OFF
DC Transfer	ON	ON/OFF

Geometry (* : No need to adjust)

GEOMETRY ADJUSTMENT			
	4:3	16:9	
V Size	15	15	0 - 63
V Position	47	47	0 - 63
S Correction	0	0	0 - 15
V Linearity	12	12	0 - 15
H Size	40	40	0 - 63
H Position	15	15	0 - 15
Pin Amp	18	20	0 - 63
Pin Phase	12	12	0 - 15
AFC Bow	8	8	0 - 15
AFC Angle	9	9	0 - 15
* EHT V	1	1	0 - 3
* EHT H	0	0	0 - 3
Lo Corn Pin	4	6	0 - 15
Up Corn Pin	1	3	0 - 15

Wide (* : No need to adjust)

WIDE ADJUSTMENT			
	4:3	16:9	
* V Aspect	47	47	0 - 63
* V Scroll	25	25	0 - 63
* Upper V Lin	0	0	0 - 15
* Lower V Lin	0	0	0 - 15
* Left Blanking	11	11	0 - 15
* Right Blanking	11	11	0 - 15

IC Status

IC STATUS (CXA2076 / CXA2040)	
<u>CXA2076</u>	
H lock	1
IKR	1
V NG	0
XRAY	0
Colour System	7
CV1 Sync	0
<u>CXA2040</u>	
Sync Sep	1
S1 Mode Pin	01
S2 Mode Pin	01
<u>PORT EXPANDER</u>	
Power Good	0
<u>TUNER</u>	
Tuner Status	01111100

MSP

MSP ADJUSTMENT			
SDR	1	CONCCT	0 FAWCTIST 12
AGC On / Off		ON	ON/OFF
Constant Gain CDB		0	0 - 20
FM Prescale FMP		36	0 - 127
Zwei Mono-St WHI		36	0 - 127
Zwei St-Mono WLO		18	0 - 127
Zwei Mono-Bi WMH		36	0 - 127
Zwei Bi-Mono WLO		18	0 - 127
Time Zwei WML		41	0 - 127
FAWCT Limit		10	0 - 127
FAWCT Soll Init FAW		12	0 - 127
FAW ER Tol		2	0 - 127
NICAM Err Max CCT		10	0 - 127
NICAM Err Min		0	0 - 127
Time NICAM		26	0 - 127
Audio Clock ACO		HIZ	ON/HIZ
SCART Prescale		25	0 - 127
SCART Volume		64	0 - 127
NICAM Prescale I		127	0 - 127
NICAM Prescale L		97	0 - 127
NICAM Prescale BG		97	0 - 127
NICAM Prescale DK		97	0 - 127

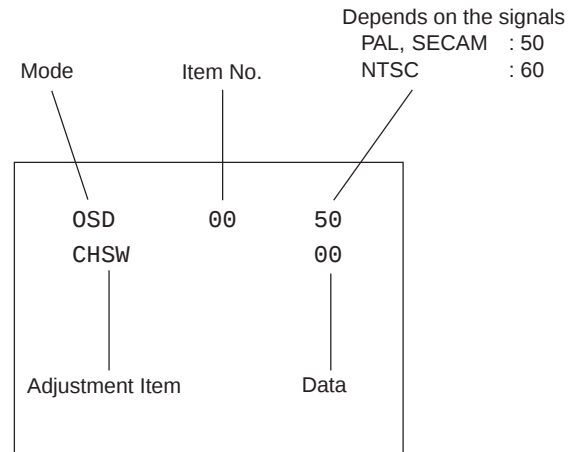
Dynamic Convergence

DYNAMIC CONVERGENCE		
Range	0	0 - 42
H stat	0	OFF - 63
H amp l	0	OFF - 63
H amp r	0	OFF - 63
Up Y	0	OFF - 63
Low Y	0	OFF - 63
Y up l	0	OFF - 63
Y up r	0	OFF - 63
Y low l	0	OFF - 63
Y low r	0	OFF - 63
Mbow up l	0	OFF - 63
Mbow up r	0	OFF - 63
Mbow low l	0	OFF - 63
Mbow low r	0	OFF - 63
V stat	0	OFF - 63

Current TV Status

TV STATUS RE-2A(TT09)	
Text System	C Text-2
Dolby Enabled	No
DSP Present	No
Text Language Set	East/Greek
Menu Language Set	East
Destination	AEP
Ageing	Disabled
Auto Shut Off	Enabled
Size	PJ
Colour Trap Sw	All
Velocity Mod	On
AFT Status	
Digital PF	No
Micro/Jungle	SDA5250/CXA2076

Convergence



6-1-3. Service List (Convergence)

(With some models, contents may be different from the following)

Mode	Item Number	Adjustment Item	Data Range	Initial Data		Name / Description	Device
				16 : 9	4 : 3		
OSD	00	CHSW	00, 01	00		HATCH DISPLAY 00 : Internal Pattern (Crosshatch) 01 : External Pattern	
	01	OSH	01 ~ 32	10		OSD H Position	
	02	OSV	01 ~ 32	10		OSD V Position	
	03	VMRK	00, 01	00		V SIZE MARKER ON / OFF (cannot write to NVM)	
SFT	00	SFTE	00, 01	01		SHIFT ENABLE 00 : Disable 01 : Enable	
	01	SFTF	00, 01	00		SHIFT FAST 00 : Normal 01 : Quick (cannot write to NVM)	
GH	00	GSEL	00, 01	00	00	OSD SELECT FOR GH, GV 00 : Green+Red 01 : Green	CXP86213
	01	CENT	-127 ~ +127	12	12	GREEN H CENTER	
	02	SKEW	-127 ~ +127	-03	-03	GREEN H SKEW	
	03	BOW	-127 ~ +127	00	00	GREEN H BOW	
	04	4BOW	-127 ~ +127	00	00	GREEN H 4th BOW	
	05	SIZE	-127 ~ +127	-27	-27	GREEN H SIZE	
	06	LIN	-127 ~ +127	-21	-21	GREEN H LINEARITY	
	07	MSIZ	-127 ~ +127	21	21	GREEN H MID SIZE	
	08	MLIN	-127 ~ +127	-03	-03	GREEN H MID LINEARITY	
	09	KEY	-127 ~ +127	00	00	GREEN H KEYSTONE	
	10	SSKW	-127 ~ +127	-12	-12	GREEN H SUB SKEW	
	11	MPIN	-127 ~ +127	10	10	GREEN H MID PINCUSHION	
	12	PIN	-127 ~ +127	-10	-10	GREEN H PINCUSHION	
	13	SBOW	-127 ~ +127	09	09	GREEN H SUB BOW	
	14	MBOW	-127 ~ +127	00	00	GREEN H MID BOW	
	15	4PIN	-127 ~ +127	09	09	GREEN H 4th PINCUSHION	
	16	4SBO	-127 ~ +127	00	00	GREEN H 4th SUB BOW	

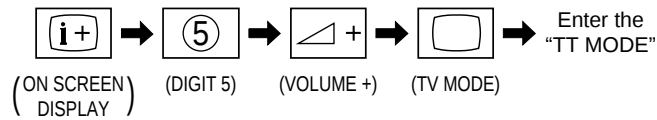
Mode	Item Number	Adjustment Item	Data Range	Initial Data		Name / Description	Device
				16 : 9	4 : 3		
GV	00	CENT	-127 ~ +127	03	03	GREEN V CENTER	CXP86213
	01	SKEW	-127 ~ +127	-17	-17	GREEN V SKEW	
	02	BOW	-127 ~ +127	00	00	GREEN V BOW	
	03	SIZE	-127 ~ +127	-25	-25	GREEN V SIZE	
	04	LIN	-127 ~ +127	-12	-12	GREEN V LINEARITY	
	05	MSIZ	-127 ~ +127	30	30	GREEN V MID SIZE	
	06	MKEY	-127 ~ +127	00	00	GREEN V MID KEYSTONE	
	07	KEY	-127 ~ +127	02	02	GREEN V KEYSTONE	
	08	SSKW	-127 ~ +127	-08	-08	GREEN V SUB SKEW	
	09	MPIN	-127 ~ +127	00	00	GREEN V MID PINCUSHION	
	10	PIN	-127 ~ +127	37	37	GREEN V PINCUSHION	
	11	SBOW	-127 ~ +127	27	27	GREEN V SUB BOW	
	12	WAVW	-127 ~ +127	00	00	GREEN V WAVE	
	13	4PIN	-127 ~ +127	03	03	GREEN V 4th PINCUSHION	
RH	00	CENT	-95 ~ +96	-25	-25	RED H CENTER	
	01	SKEW	-95 ~ +96	-05	-05	RED H SKEW	
	02	BOW	-127 ~ +127	08	08	RED H BOW	
	03	4BOW	-127 ~ +127	00	00	RED H 4th BOW	
	04	SIZE	-127 ~ +127	-25	-25	RED H SIZE	
	05	LIN	-127 ~ +127	-55	-55	RED H LINEARITY	
	06	MSIZ	-127 ~ +127	38	38	RED H MID SIZE	
	07	MLIN	-127 ~ +127	-21	-21	RED H MID LINEARTIY	
	08	KEY	-127 ~ +127	-17	-17	RED H KEYSTONE	
	09	SSKW	-127 ~ +127	-23	-23	RED H SUB SKEW	
	10	MPIN	-127 ~ +127	03	03	RED H MID PINCUSHON	
	11	PIN	-127 ~ +127	-02	-02	RED H PINCUSHON	
	12	SBOW	-127 ~ +127	84	84	RED H SUB BOW	
	13	MBOW	-127 ~ +127	11	11	RED H MID BOW	
	14	4PIN	-127 ~ +127	13	13	RED H 4th PINCUSHON	
	15	4SBO	-127 ~ +127	-03	-03	RED H 4th SUB BOW	
RV	00	CENT	-95 ~ +96	-20	-20	RED V CENTER	
	01	SKEW	-95 ~ +96	-23	-23	RED V SKEW	
	02	BOW	-127 ~ +127	02	02	RED V BOW	
	03	SIZE	-127 ~ +127	13	13	RED V SIZE	
	04	LIN	-127 ~ +127	-03	-03	RED V LINEARITY	
	05	MSIZ	-127 ~ +127	28	28	RED V MID SIZE	
	06	MKEY	-127 ~ +127	12	12	RED V MID KEYSTONE	
	07	KEY	-127 ~ +127	-19	-19	RED V KEYSTONE	
	08	SSKW	-127 ~ +127	02	02	RED V SUB SKEW	
	09	MPIN	-127 ~ +127	-02	-02	RED V MID PINCUSHON	
	10	PIN	-127 ~ +127	16	16	RED V PINCUSHON	
	11	SBOW	-127 ~ +127	25	25	RED V SUB BOW	
	12	WAVW	-127 ~ +127	36	36	RED V WAVE	
	13	4PIN	-127 ~ +127	-02	-02	RED V 4th PINCUSHON	
	14	MWAV	-31 ~ +31	-07	-07	MID WAVE	
BH	00	BSEL	00, 01	00	00	OSD SELECT FOR BH, BV 00 : Blue + Green 01 : Blue + Red	
	01	CENT	-95 ~ +96	10	10	BLUE H CENTER	
	02	SKEW	-95 ~ +96	07	07	BLUE H SKEW	
	03	BOW	-127 ~ +127	-03	-03	BLUE H BOW	
	04	4BOW	-127 ~ +127	00	00	BLUE H 4th BOW	
	05	SIZE	-127 ~ +127	-18	-18	BLUE H SIZE	
	06	LIN	-127 ~ +127	11	11	BLUE H LINEARITY	
	07	MSIZ	-127 ~ +127	42	42	BLUE H MID SIZE	
	08	MLIN	-127 ~ +127	13	13	BLUE H MID LINEARTIY	
	09	KEY	-127 ~ +127	-01	-01	BLUE H KEYSTONE	
	10	SSKW	-127 ~ +127	-09	-09	BLUE H SUB SKEW	
	11	MPIN	-127 ~ +127	-03	-03	BLUE H MID PINCUSHON	
	12	PIN	-127 ~ +127	-06	-06	BLUE H PINCUSHON	
	13	SBOW	-127 ~ +127	-31	-31	BLUE H SUB BOW	
	14	MBOW	-127 ~ +127	-14	-14	BLUE H MID BOW	
	15	4PIN	-127 ~ +127	15	15	BLUE H 4th PINCUSHON	
	16	4SBO	-127 ~ +127	01	01	BLUE H 4th SUB BOW	

Mode	Item Number	Adjustment Item	Data Range	Initial Data		Name / Description	Device
				16 : 9	4 : 3		
BV	00	CENT	-95 ~ +96	-19	-19	BLUE V CENTER	CXP86213
	01	SKEW	-95 ~ +96	08	08	BLUE V SKEW	
	02	BOW	-127 ~ +127	05	05	BLUE V BOW	
	03	SIZE	-127 ~ +127	-08	-08	BLUE V SIZE	
	04	LIN	-127 ~ +127	-02	-02	BLUE V LINEARITY	
	05	MSIZ	-127 ~ +127	28	28	BLUE V MID SIZE	
	06	MKEY	-127 ~ +127	-12	-12	BLUE V MID KEYSTONE	
	07	KEY	-127 ~ +127	05	05	BLUE V KEYSTONE	
	08	SSKW	-127 ~ +127	-22	-22	BLUE V SUB SKEW	
	09	MPIN	-127 ~ +127	-07	-07	BLUE V MID PINCUSHON	
	10	PIN	-127 ~ +127	22	22	BLUE V PINCUSHON	
	11	SBOW	-127 ~ +127	29	29	BLUE V SUB BOW	
	12	WAVW	-127 ~ +127	-31	-31	BLUE V WAVE	
	13	4PIN	-127 ~ +127	-12	-12	BLUE V 4th PINCUSHON	
	14	MWAV	-31 ~ +31	-03	-03	MID WAVE	
ACV	00	ART0	01 ~ 08	06		DATA SAMPLE LENGTH (1 step = 1 μ sec.)	
	01	AT1T	00 ~ 255	18		Data Sampling Start Time	
	02	AT1M	00 ~ 255	132		from V BLK (50Hz)	
	03	AT1B	00 ~ 255	240		(1 step = 64 μ sec = approx. 1H)	
	04	AH51	01 ~ 255	18		(1 step = 1 OSD step) OSD H POS 50 (L&R)	
	05	AH52	01 ~ 255	130		OSD H POS 50 (UP&BOTTOM)	
	06	AV5T	00 ~ 255	01		(1 step = 2 lines) OSD V POS 50 (UP)	
	07	AV5M	00 ~ 255	60		OSD V POS 50 (L&R)	
	08	AV5B	00 ~ 255	130		OSD V POS 50 (BOTTOM)	
	09	AH61	01 ~ 255	18		(1 step = 1 OSD step) OSD H POS 60 (L&R)	
	10	AH62	01 ~ 255	130		OSD H POS 60 (BOTTOM)	
	11	AV6T	00 ~ 255	01		(1 step = 2 lines) OSD V POS 50 (UP)	
	12	AV6M	00 ~ 255	46		OSD V POS 50 (L&R)	
	13	AV6B	00 ~ 255	100		OSD V POS 50 (BOTTOM)	
	14	RHCO	-127 ~ +127	-48		(8 step = 1 step) RH CENT ADJ OFFSET	
	15	BHCO	-127 ~ +127	15		BH CENT ADJ OFFSET	
	16	RVCO	-127 ~ +127	-04		RV CENT ADJ OFFSET	
	17	BVCO	-127 ~ +127	03		BV CENT ADJ OFFSET	
	18	RHSO	-127 ~ +127	-03		RH SKEW ADJ OFFSET	
	19	BHSO	-127 ~ +127	05		BH SKEW ADJ OFFSET	
	20	RVSO	-127 ~ +127	09		RV SKEW ADJ OFFSET	
	21	BVSO	-127 ~ +127	-07		BV SKEW ADJ OFFSET	
	22	AERR	00 ~ 255	00		(Error Code)	
MSC	00	ACTL	00 ~ 255	10		Lower byte of counter value	
	01	ACTH	00 ~ 255	00		Higher byte of counter value	

6-2. REGISTRATION ADJUSTMENT

6-2-1. Registration Adjustment Method

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



3. Press "MENU" on the commander.
4. Move to the corresponding adjustment using the joystick (▲ or ▼ : up or down) on the commander.
5. Move the joystick to the right (▶) to enter the selected adjustment.

With the joystick ◀▶ :

- ▲ or ▼ Items change
- ◀ or ▶ Data change

In internal pattern :

ITEM : Convergence

OSD CHSW = "00" Internal pattern (crosshatch)

OSD CHSW = "01" External pattern

Color of internal pattern :

ITEM : Convergence

GH GSEL = "00" Green + Red

GH GSEL = "01" Green

BH BSEL = "00" Blue + Green

BH BSEL = "01" Blue + Red

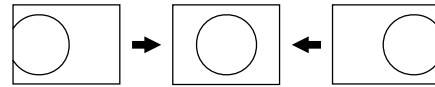
6-2-2. Main Deflection Adjustment

1. Receive the PAL SPCB signal.
2. Select 16 : 9 mode.
Press "◉ (blue key)" : 4 : 3 ➔ 16 : 9
Need geometry adjustment to 16 : 9 mode and 4 : 3 mode.
Production spec of each mode.
3. Select service mode and enter adjustment item for green signal.

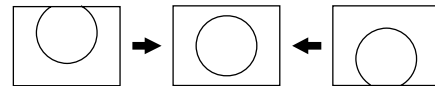
CENTER ADJUSTMENT

1. Adjust H Position and V Position.

H Position



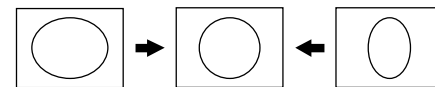
V Position



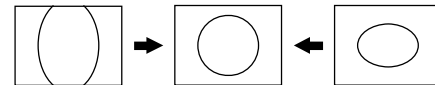
SIZE ADJUSTMENT

1. Make Convergence GH SIZE data "00".
2. Adjust Geometry H Size.
3. Make Convergence GV SIZE data "00".
4. Adjust Geometry V Size.
5. Adjust Geometry S Correction.

H Size



V Size



Signal : PAL SPCB

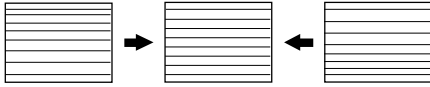
	H SIZE	V SIZE
16 : 9	16.6 ±0.2 sq	12.6 ±0.2 sq
4 : 3	17.1 ±0.2 sq	12.4 ±0.2 sq

MAIN DEFLECTION ADJUSTMENT

1. Adjust V Linearity.

Correct linearity of the horizontal top and bottom lines.

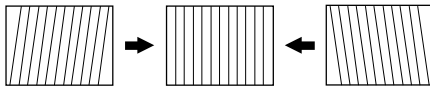
V Linearity



2. Adjust AFC Angle

Correct the vertical center line to be in parallel with the screen edges and other colors.

AFC Angle



3. Adjust AFC Bow

Correct linearity of the vertical center line.

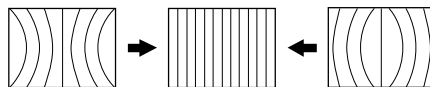
AFC Bow



4. Adjust PIN Amp

Correct the vertical left and right lines and eliminate pin-cushion-shaped distortion.

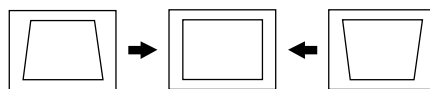
PIN Amp



5. Adjust PIN Phase

Correct the vertical left and right lines to be in parallel with each other.

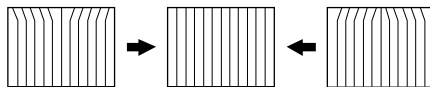
PIN Phase



6. Adjust Up Corn Pin

Correct the screen top section line bow.

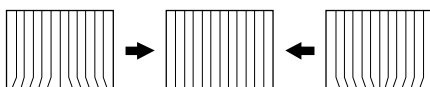
Up Corn Pin



7. Adjust Lo Corn Pin

Correct the screen bottom section line bow.

Lo Corn Pin



6-2-3. Sub Deflection Adjustment

1. Receive the PAL SPCB signal.

2. Select 16 : 9 mode.

Press “ Φ (blue key)” : 4 : 3 $\rightarrow$ 16 : 9

Need geometry adjustment to 16 : 9 mode and 4 : 3 mode.

Production spec of each mode.

3. Select service mode and enter adjustment item for green signal.

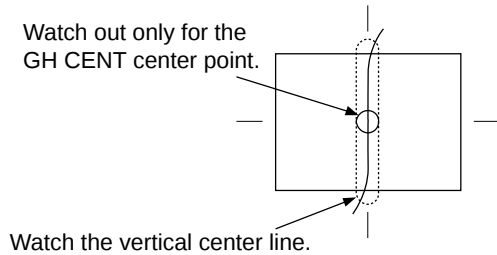
SUB DEFLECTION ADJUSTMENT ITEM

Adjustment $\bigcirc$: Yes $-$: No

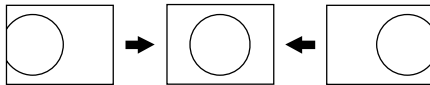
Display	Adjustment item	Adjustment type					
		GH	GV	RH	RV	BH	BV
GSEL	COL SELECT	$\bigcirc$	-	-	-	-	-
BSEL	COL SELECT	-	-	-	-	$\bigcirc$	-
CENT	CENT	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
SKEW	SKEW	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
BOW	BOW	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
4BOW	4TH BOW	$\bigcirc$	-	$\bigcirc$	-	$\bigcirc$	-
SIZE	SIZE	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
LIN	LIN	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
MSIZ	MID SIZE	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
MLIN	MID LIN	$\bigcirc$	-	$\bigcirc$	-	$\bigcirc$	-
MKEY	MID KEY	-	$\bigcirc$	-	$\bigcirc$	-	$\bigcirc$
KEY	KEY	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
SSKW	SUB SKEW	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
MPIN	MID PIN	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
PIN	PIN	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
SBOW	SUB BOW	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
WAVW	WAVE	-	$\bigcirc$	-	$\bigcirc$	-	$\bigcirc$
MBOW	MID BOW	$\bigcirc$	-	$\bigcirc$	-	$\bigcirc$	-
4PIN	4TH PIN	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
4SBO	4TH SUB BOW	$\bigcirc$	-	$\bigcirc$	-	$\bigcirc$	-
MWAV	MID WAVE	-	-	-	$\bigcirc$	-	$\bigcirc$

GREEN VERTICAL LINE ADJUSTMENT

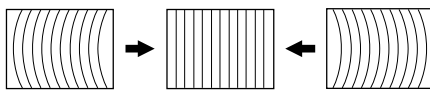
1. Receive the PAL SPCB signal.
2. Carefully watching out for the GH CENT screen center section, adjust GH CENT, GH BOW, GH SKEW.
3. GH 4BOW adjustment. Correct the corner distortion which could not be adjusted with GH BOW.



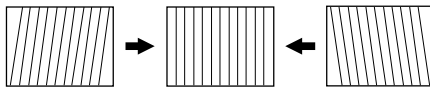
GH CENT



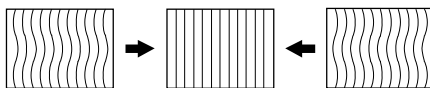
GH BOW



GH SKEW

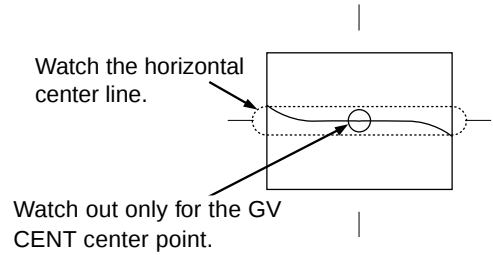


GH 4BOW

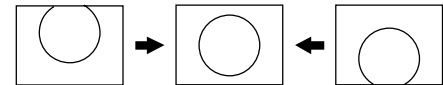


GREEN HORIZONTAL LINE ADJUSTMENT

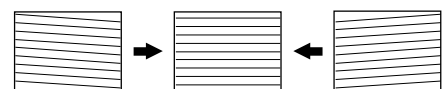
1. Receive the PAL SPCB signal.
2. Finely adjust the center position of the vertical line at the center of the screen with GV CENT.
3. Using GV SKEW and GV BOW, correct the tilt and bow of the horizontal line at the centre of the screen.



GV CENT



GV SKEW

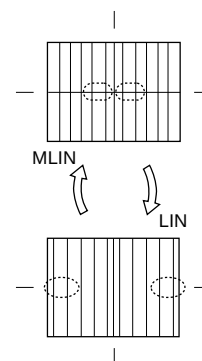


GV BOW



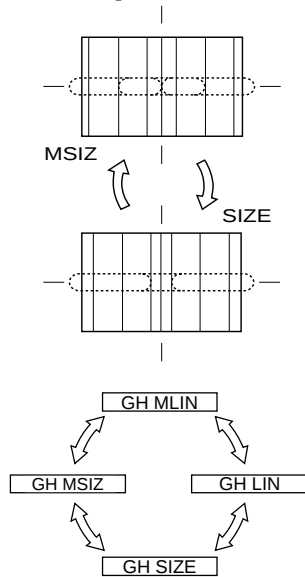
GREEN SIZE AND LINEARITY ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Balance the sizes at both sides of the center section of the screen with GH MLIN.
3. Balance the sizes on both end sections of the screen with GH LIN.
4. While tracking, adjust with GH MLIN and GH LIN so that the sizes of the horizontal line at the center of the screen are symmetrical left and right.



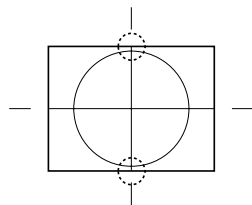
GREEN HORIZONTAL SIZE ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust with GH MSIZ, so that the sizes of both edges and centre are equal.
3. Adjust with GH SIZE, so that the horizontal sizes of both edges and centre are equal.
4. While tracking adjust GH MSIZ and GH SIZE so that the space intervals for the horizontal section of the screen are equal.
5. Adjust again if M LIN is changed after GH MSIZ and GH SIZE are complete.



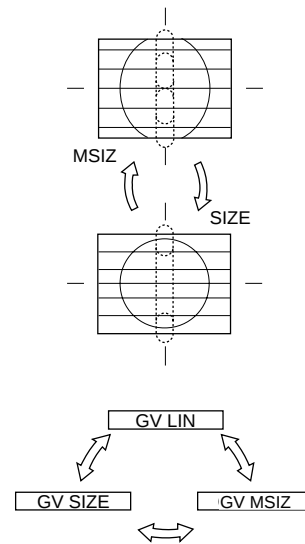
GREEN VERTICAL LINEARITY ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GV LIN so that the vertical lines at the top and bottom of the screen are symmetrical.



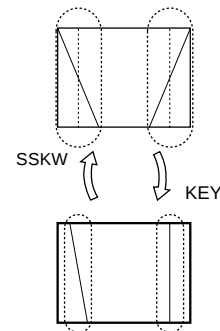
GREEN VERTICAL SIZE ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GV MSIZ so that the sizes at the top and bottom and centre are equal.
3. Set the vertical size to correct specification.
4. While tracking adjust GV MSIZ and GV SIZE so that the space intervals for the vertical line of the screen are equal, also the vertical size should be within space.
5. Adjust again if GV LIN has been altered after completing the above adjustments.



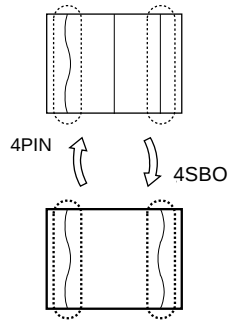
GREEN HORIZONTAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH SSKW so that the tilt of the vertical lines at both edges of the screen are symmetrical left and right.
3. Adjust GH KEY so that there is no tilt in the vertical lines at both edges of the screen.
4. While tracking adjust GH KEY and GH SSKW.



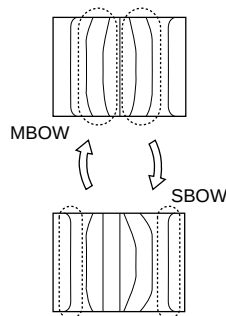
GREEN HORIZONTAL QUATERNARY ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH 4PIN, to correct the 4th order distortion.
3. Adjust GH 4SBO to balance and correct the 4th order distortion at both edges of the screen.
4. While tracking adjust GH 4PIN and GH 4SBO.



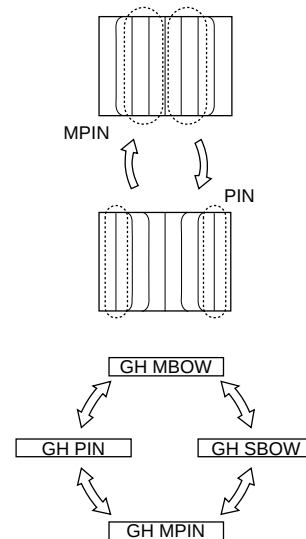
GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH MBOW, so that the pin asymmetry at both sides of the centre section are symmetrical left and right.
3. Adjust GH SBOW so that the bow at both edges of the screen is symmetrical left and right.
4. While tracking adjust GH MBOW and GH SBOW so that the bow of vertical lines over the entire screen is symmetrical.



GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT

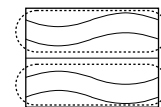
1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GH MPIN to correct pin distortion at both edges of the centre section.
3. Use GH PIN to correct pin distortion at both edges of the screen.
4. While tracking adjust GH MPIN and GH PIN so that the PIN of vertical lines on the entire screen have no bowing.
5. If there is asymmetrical distortion after adjustments, readjust GH MBOW and GH SBOW while tracking.



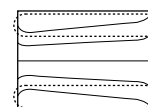
GREEN VERTICAL WAVE (3RD-ORDER) DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Check the screen at the top & bottom, and look for any 2nd or 3rd order waveform distortion of horizontal lines. Correct with GV WAVW.
3. While tracking adjust GV WAVW and GV KEY, if there are any KEY distortion.

GV WAVW



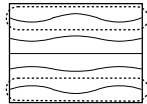
GV KEY



GREEN VERTICAL 4TH ORDER DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. By using GV 4PIN, 4th-Order distortion of the horizontal lines at the top & bottom can be corrected.
Since there is no 4SBO for vertical correction, there will be a slight imbalance, but adjust the registration to eliminate any distortion.

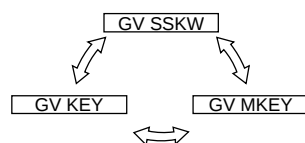
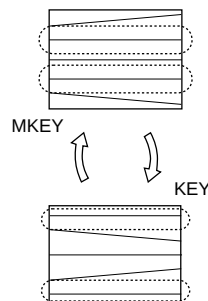
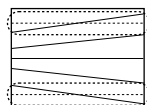
GV 4PIN



GREEN VERTICAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Adjust GV SSKW so that the tilt of the horizontal lines at the top and bottom of the screen are symmetrical.
3. Adjust GV MKEY so that there is no tilt for the middle section.
4. Adjust GV KEY so that there is no tilt at the top and bottom of the screen.
5. While tracking adjust GV MKEY and GV KEY, so that there is no tilt over the entire screen.
6. If the tilt is unbalanced after GV MKEY and GV KEY have been adjusted, readjust GV SSKW.

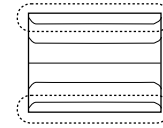
GV SSKW



GREEN VERTICAL ASYMMETRICAL PIN DISTORTION (2ND-ORDER DISTORTION) ADJUSTMENT

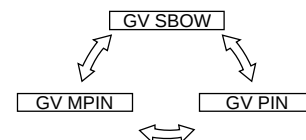
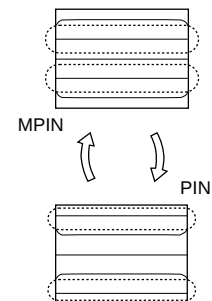
1. Receive the Internal pattern (crosshatch) signal.
2. Correct the asymmetrical pin distortion at the top and bottom of the screen with GV SBOW.

GV SBOW



GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
2. Using GV MPIN adjust the pin distortion at both edges of the screen and at the centre.
3. Using GV PIN, adjust, so that the horizontal lines at the top & bottom of the screen are straight lines.
4. Adjust GV MPIN & GV PIN so that there is no curve in the horizontal lines on the entire screen.
5. After adjusting the items above, using tracking with GV SBOW, GV MPIN, and GV PIN to correct the entire screen.



RED REGISTRATION ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
GH GSEL = "00" (Green + Red)
2. Adjust so that the red lines lay on the green lines.
Adjust, using the same procedure as the green sub item adjustment outline above.

Note : Main registration correction should not be while adjusting Red adjustment.

BEWARE : Not to change green sub items.
It's easily done by mistake.

BLUE ADJUSTMENT

1. Receive the Internal pattern (crosshatch) signal.
BH BSEL = "00" (Blue + Green)
2. Adjust so that the blue lines lay on the green lines.
Adjust, using the same procedure as the green sub item adjustment outline above.

Note : Main registration correction should not be while adjusting Blue adjustment.

BEWARE : Not to change green and red sub items.
It's easily done by mistake.

REGISTRATION DATA WRITE

1. After finish all PAL registration adjustments, write PAL registration data by pressing from the appropriate buttons.

DATA WRITE : Press "MUTE" + "0"

DATA COPY FROM PAL TO NTSC

1. Copy PAL data to NTSC data by pressing from the appropriate buttons.

DATA COPY : Press "ON SCREEN DISPLAY" + "0"

2. Press "ON SCREEN DISPLAY" + "0" to copy data from PAL to NTSC.
If you press "ON SCREEN DISPLAY", then it appears "Copy 5060" to display.

* Make sure input signal is PAL. If input signal is NTSC and do this process, NTSC data are copied to PAL data !

4 : 3 MODE ADJUSTMENT

1. Receive the PAL SPCB signal.
2. Select 4 : 3 mode.
Press "blue key" : 16 : 9 → 4 : 3
3. 4 : 3 mode adjustment are the same as 16 : 9 mode.

AUTO CONVERGENCE PRESET

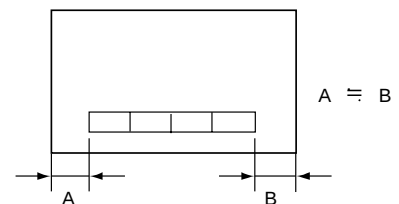
1. Set in the TT mode.
2. Press "AUTO CONVERGENCE" button on front panel.
3. Confirm convergence is the same condition as before.
4. Press "0" + "0" button on commander to exit from the TT mode.
TT00 : Exit from the TT mode

6-3. HORIZONTAL POSITION ADJUSTMENT

1. Receive the PAL SPCB signal.
2. Select 4 : 3 mode.
Press "blue key" : 16 : 9 → 4 : 3
3. Set in the service mode and select "Geometry".
4. Adjust "H position" so that the picture is displayed in the horizontal center of screen.

6-4. TEXT POSITION ADJUSTMENT

1. Receive the RF signal with teletext.
Signal must have burst. Select full page text.
2. Set in the TT mode.
3. Press "1" + "4" (41PX1/41PX1K) or "7" + "4" (41PX1R) button on commander.
TT14 : TEXT H POSITION adjustment (41PX1/41PX1K)
TT74 : TEXT H POSITION adjustment (41PX1R)
4. Adjust H position of text.
5. Push "TV MODE" to exit.



With the joystick  :

◀ (Move the Left)

▶ (Move the Right)

6-5. WHITE BALANCE ADJUSTMENT

1. Receive the Monoscope signal.
2. Set in the service mode and select "Picture Adjustment".
3. Adjust "Sub Brightness" so that the signal 10 IRE section barely glows.
4. Receive the All-White pattern signal.
5. Adjust the white balance with "Green Cutoff" and "Blue Cutoff".
6. Adjust "Sub Brightness" so that the signal 100 IRE section barely glows.
7. Adjust the white balance with "Green Drive" and "Blue Drive".
8. Repeatedly adjust the white balance for the minimum and maximum picture setting.

6-6. SUB BRIGHTNESS ADJUSTMENT

1. Receive the Monoscope signal.
2. Set in the TT mode.
3. Press "①" + "③" (41PX1/41PX1K) or "②" + "③" (41PX1R) button on commander.
TT13 : SUB BRIGHTNESS adjustment (41PX1/41PX1K)
TT23 : SUB BRIGHTNESS adjustment (41PX1R)
4. Adjust sub brightness 0 IRE and 10 IRE border just appear point by "◀" or "▶" key of commander.

With the joystick ⏮⏭ :

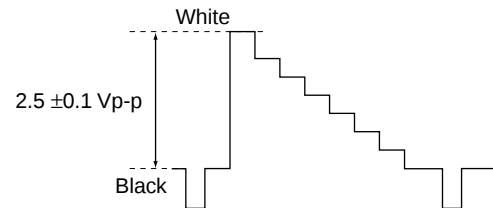
- ◀ (Down)
- ▶ (Up)

5. Decrease 3 steps from adjusted point.

6-7. SUB CONTRAST ADJUSTMENT

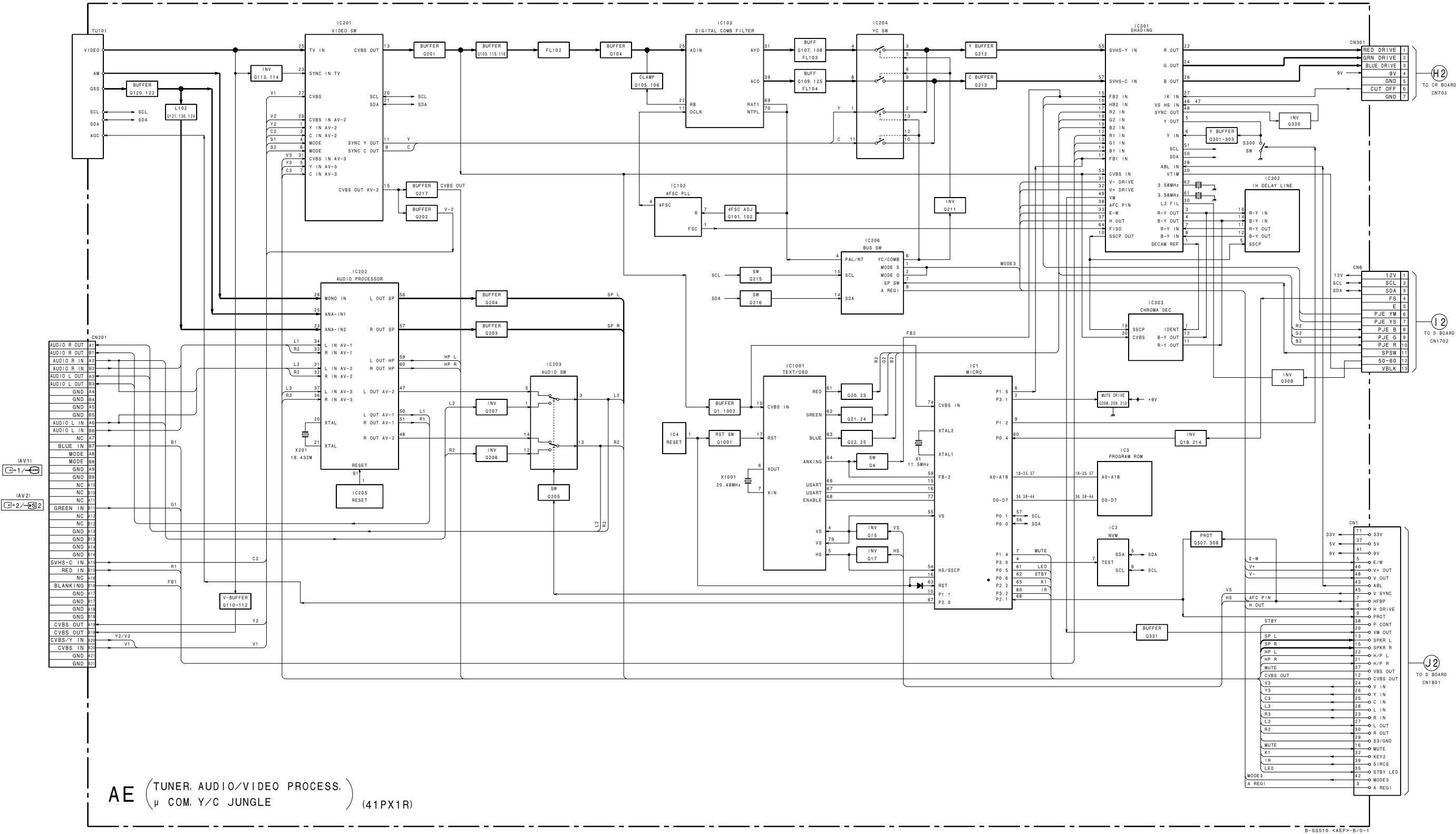
(A or AE Board)

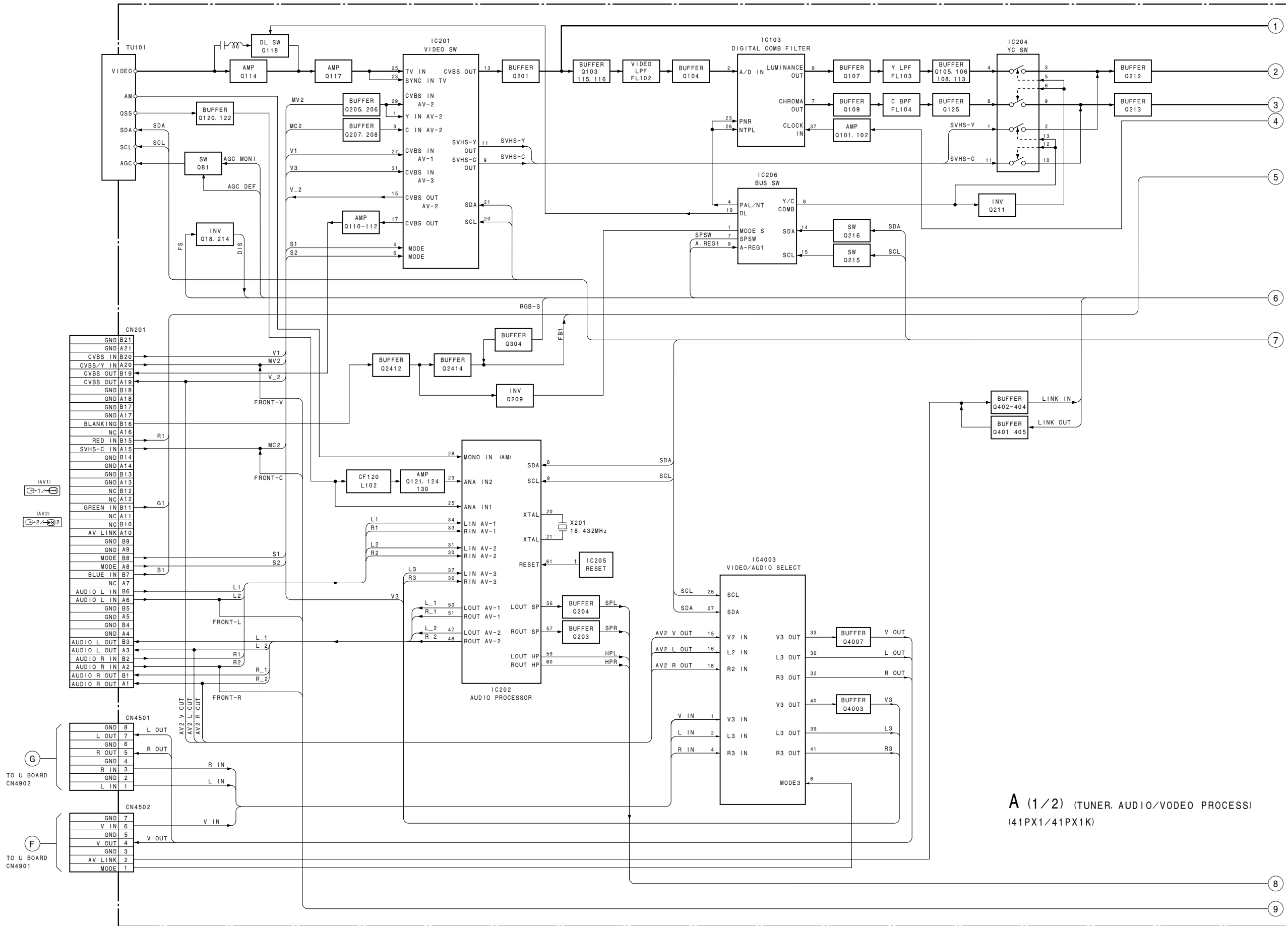
1. Receive the PAL video color bar signal.
White 100%
1 Vp-p / 75 Ω terminated.
2. Connect the external power supply to "ABL" and ground.
A board CN1 ⑧⑧ pin (ABL) : 41PX1/41PX1K
AE board CN1 ④⑨ pin (ABL) : 41PX1R
3. Connect the oscilloscope between CN301 ① pin (RED DRIVE) and ground.
4. Set PICTURE to maximum and COLOUR to minimum.
5. Set in the service mode and select "Picture Adjustment".
6. Supply DC 3.0 V from external power supply to "ABL".
7. Adjust "Sub Contrast" so that the level between black and white is 2.5 ± 0.1 Vp-p.
8. Press "⏻ (MUTE)" + "⑩" button to write the data.

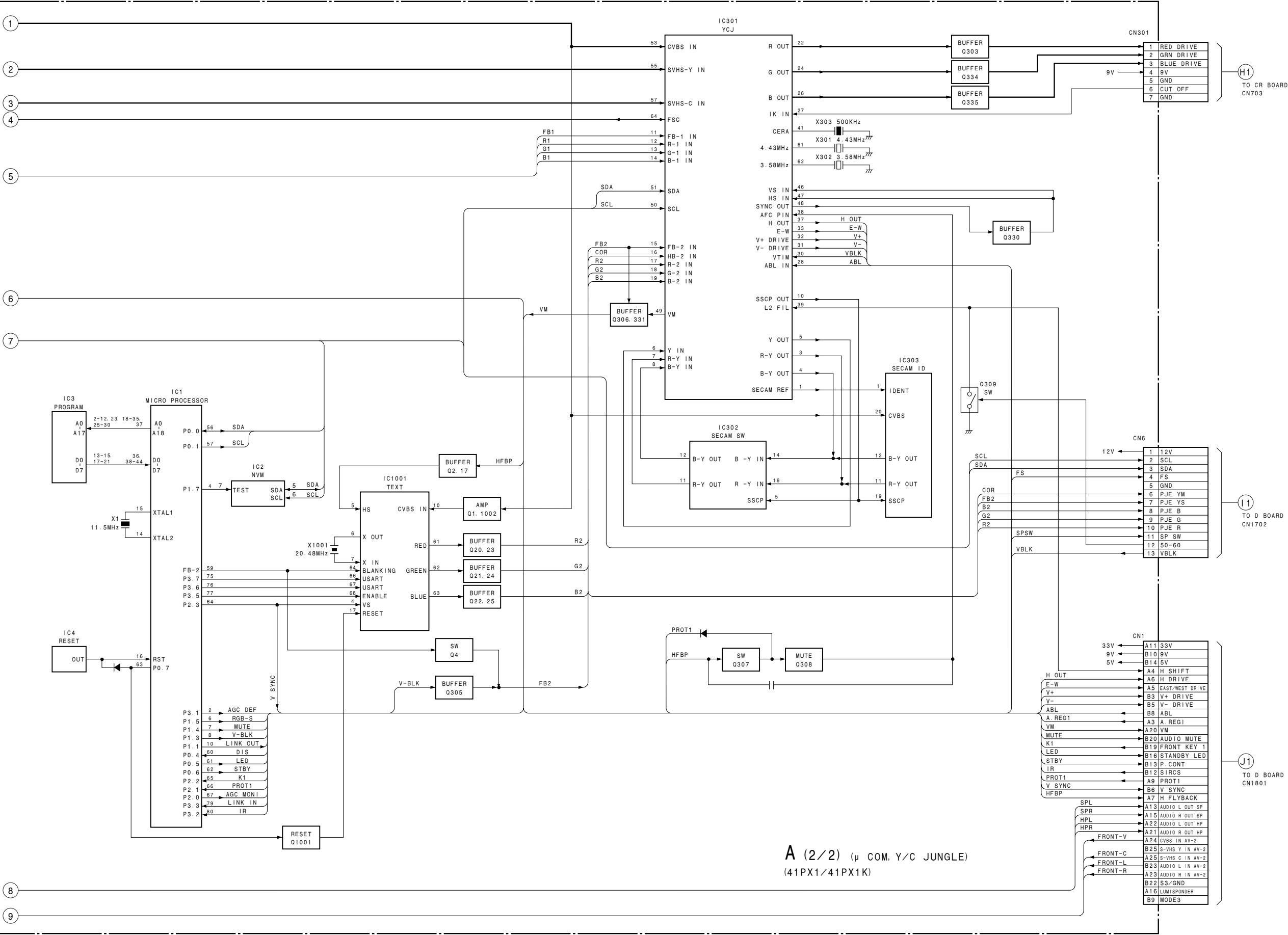


SECTION 7
DIAGRAMS

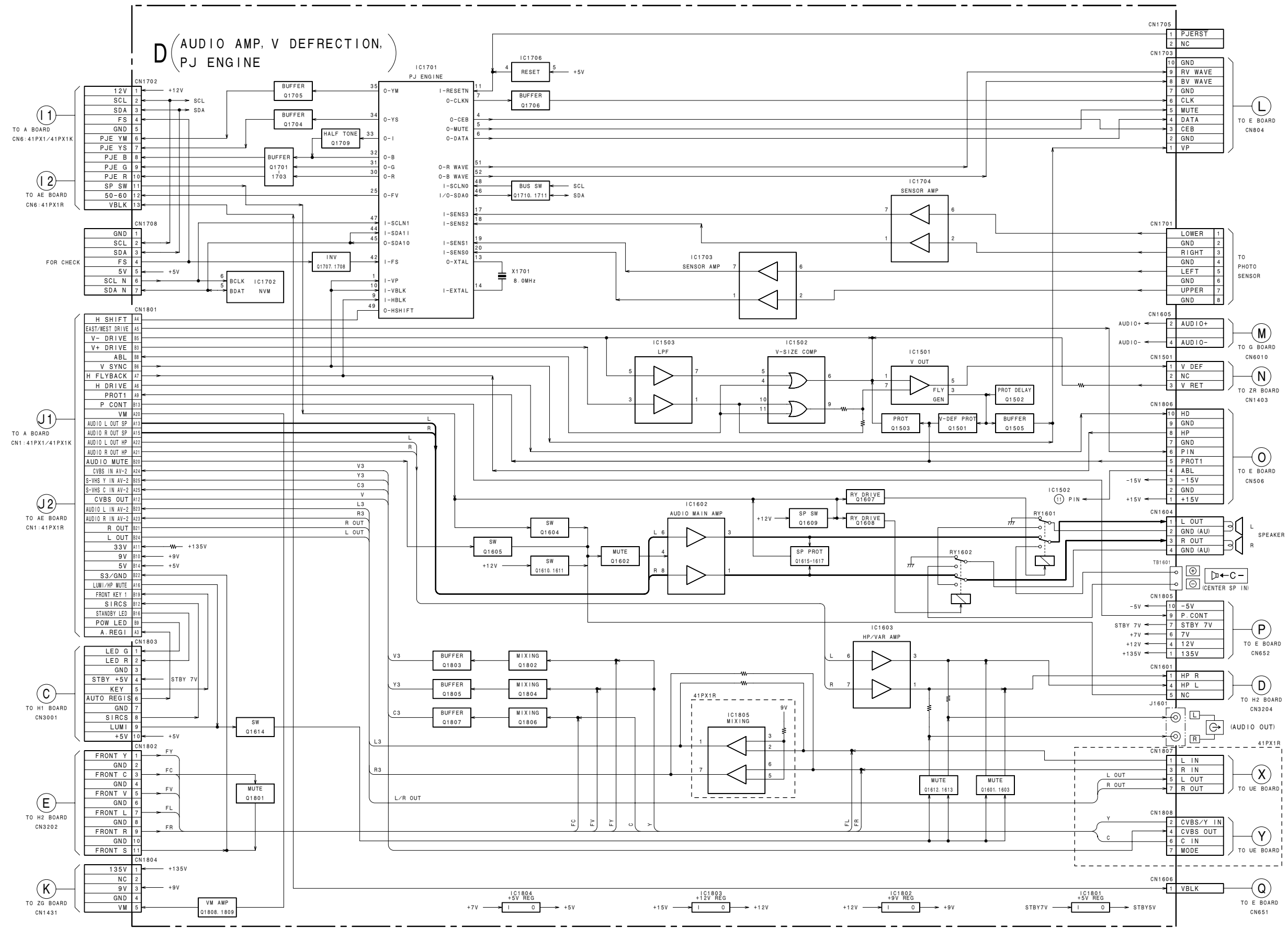
7-1. BLOCK DIAGRAMS

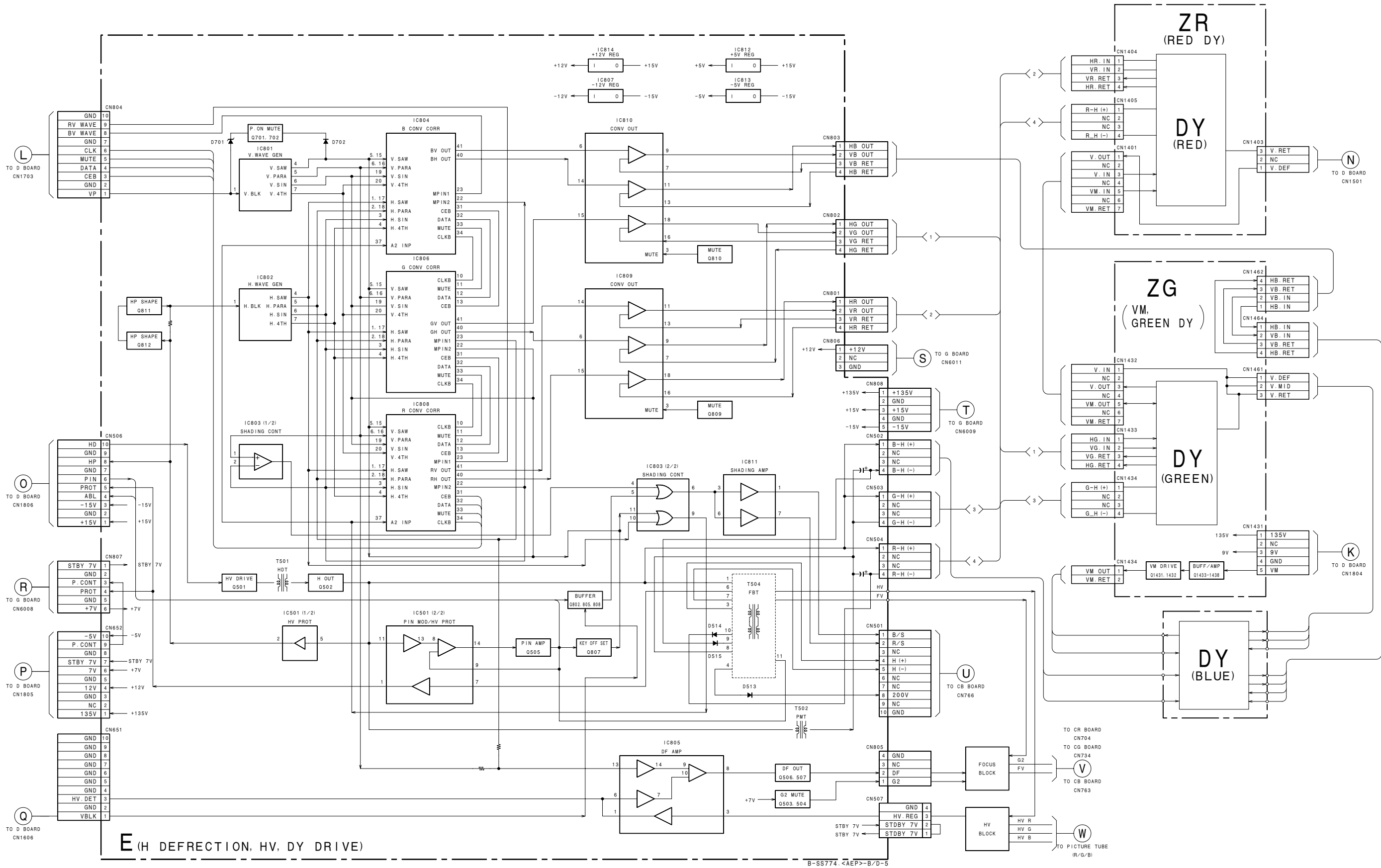


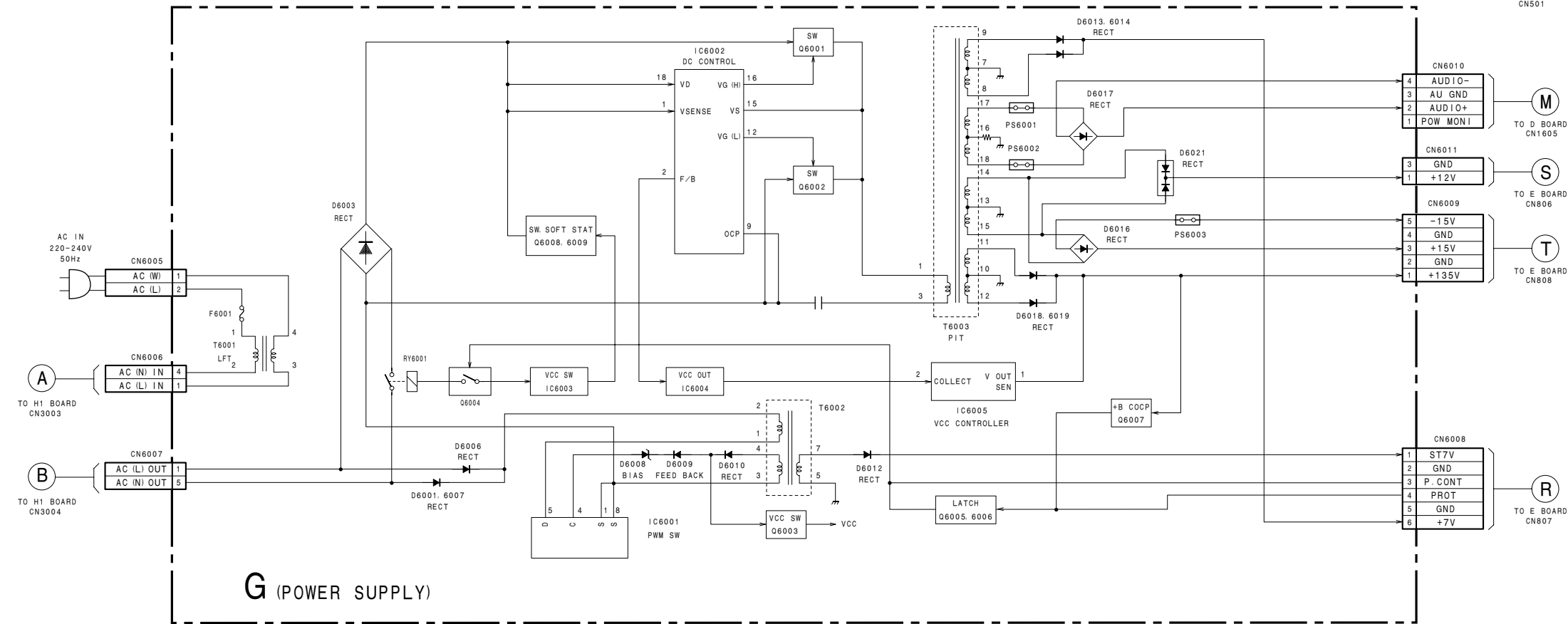
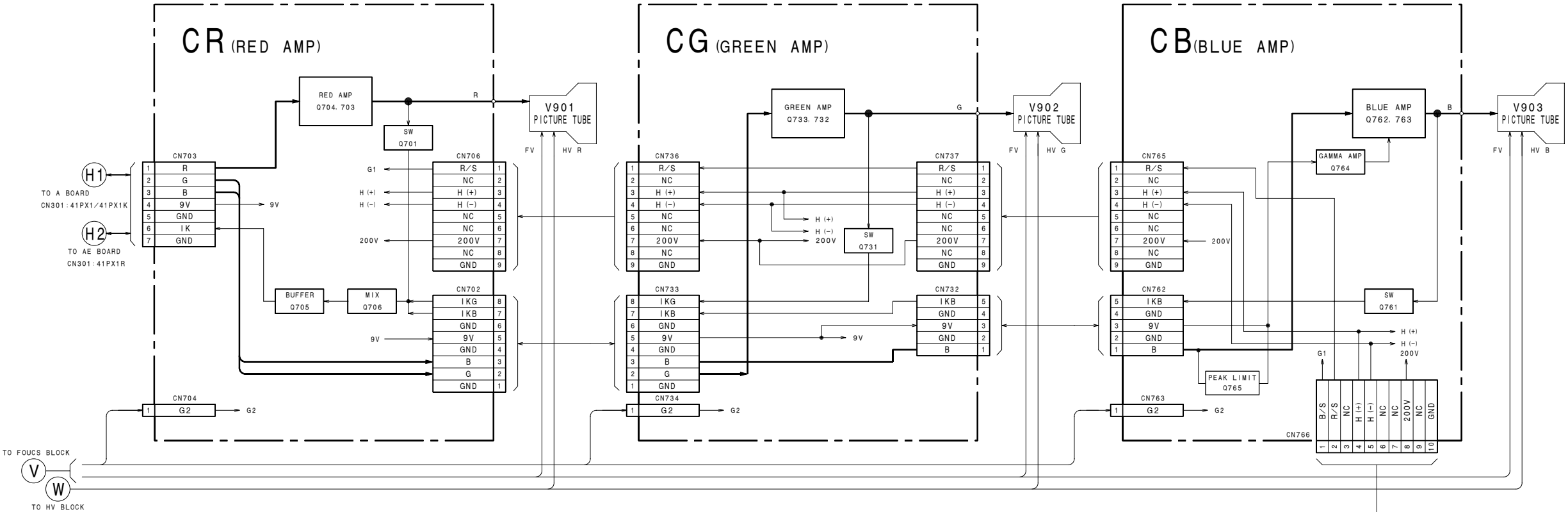


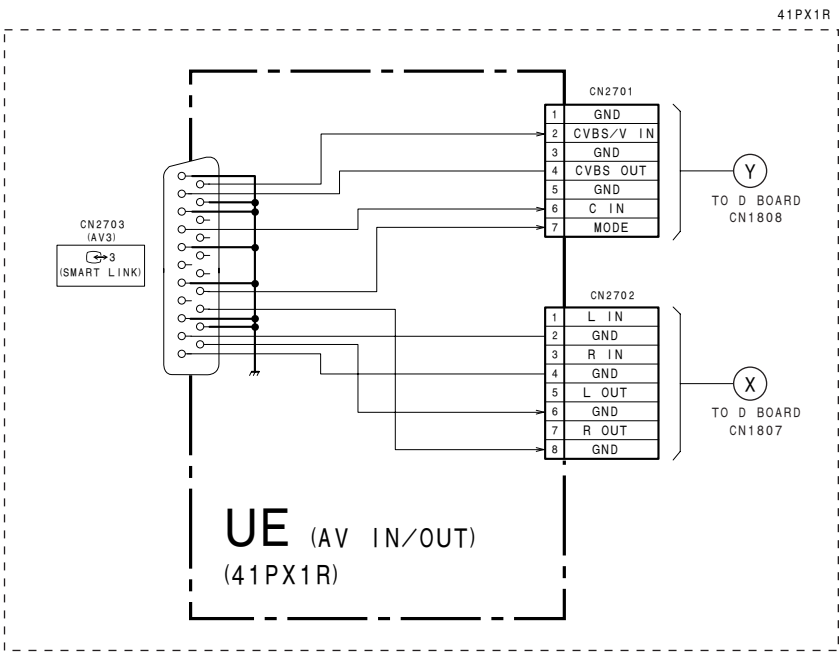
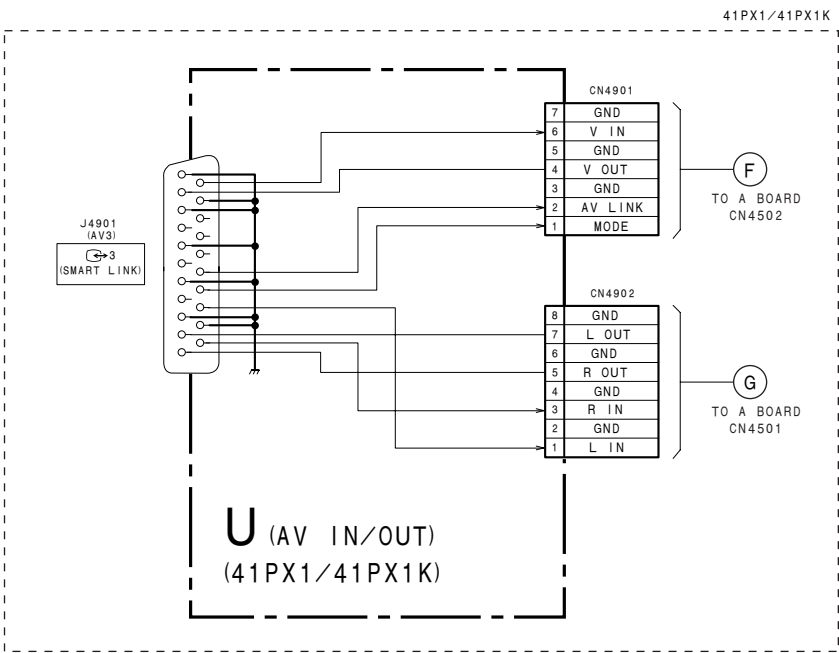
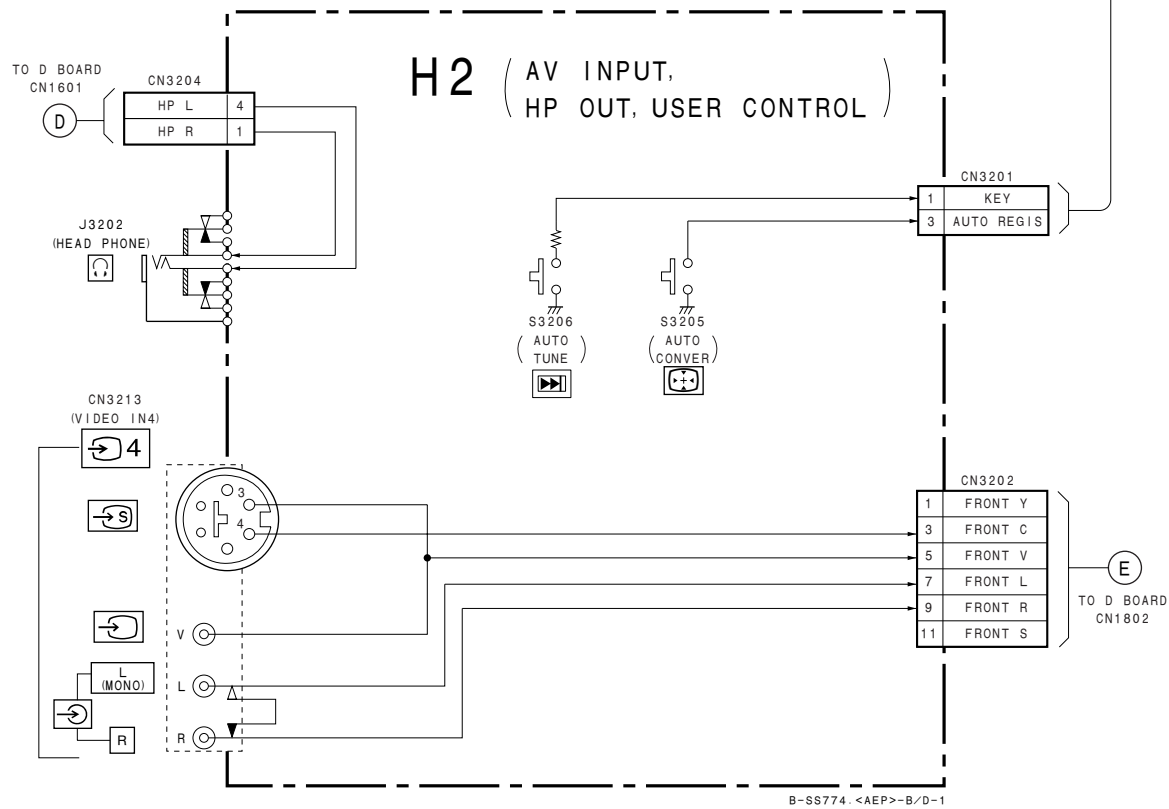
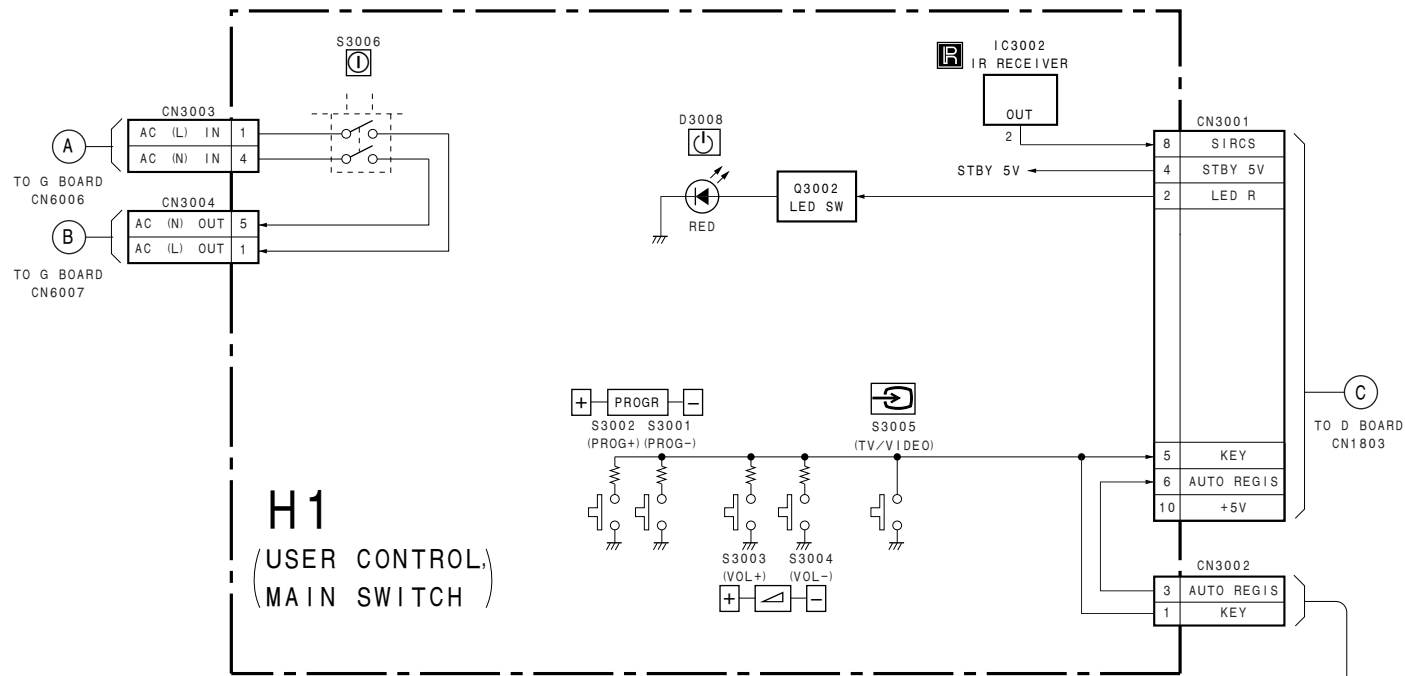


A (2/2) (μ COM, Y/C JUNGLE)
(41PX1/41PX1K)

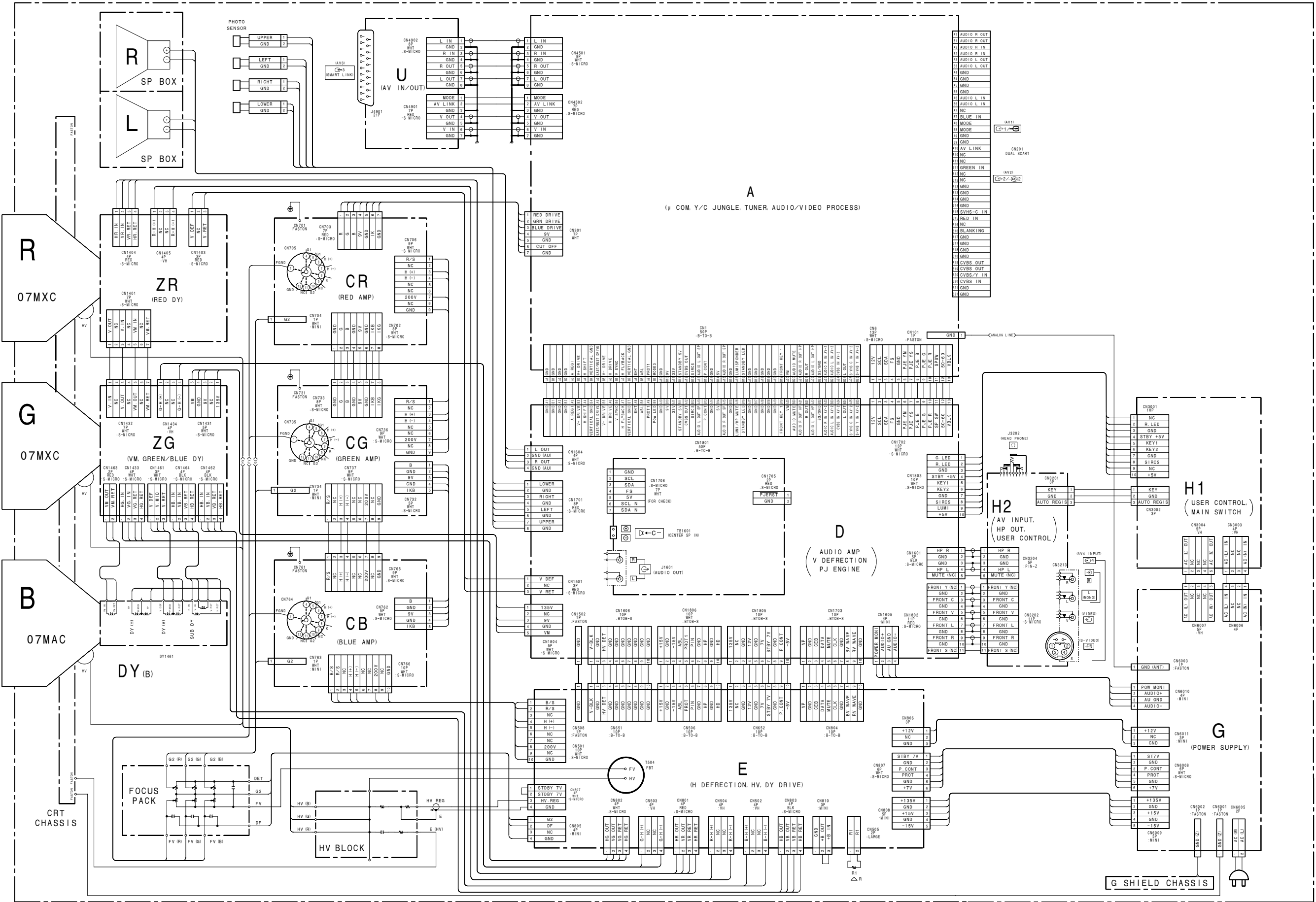


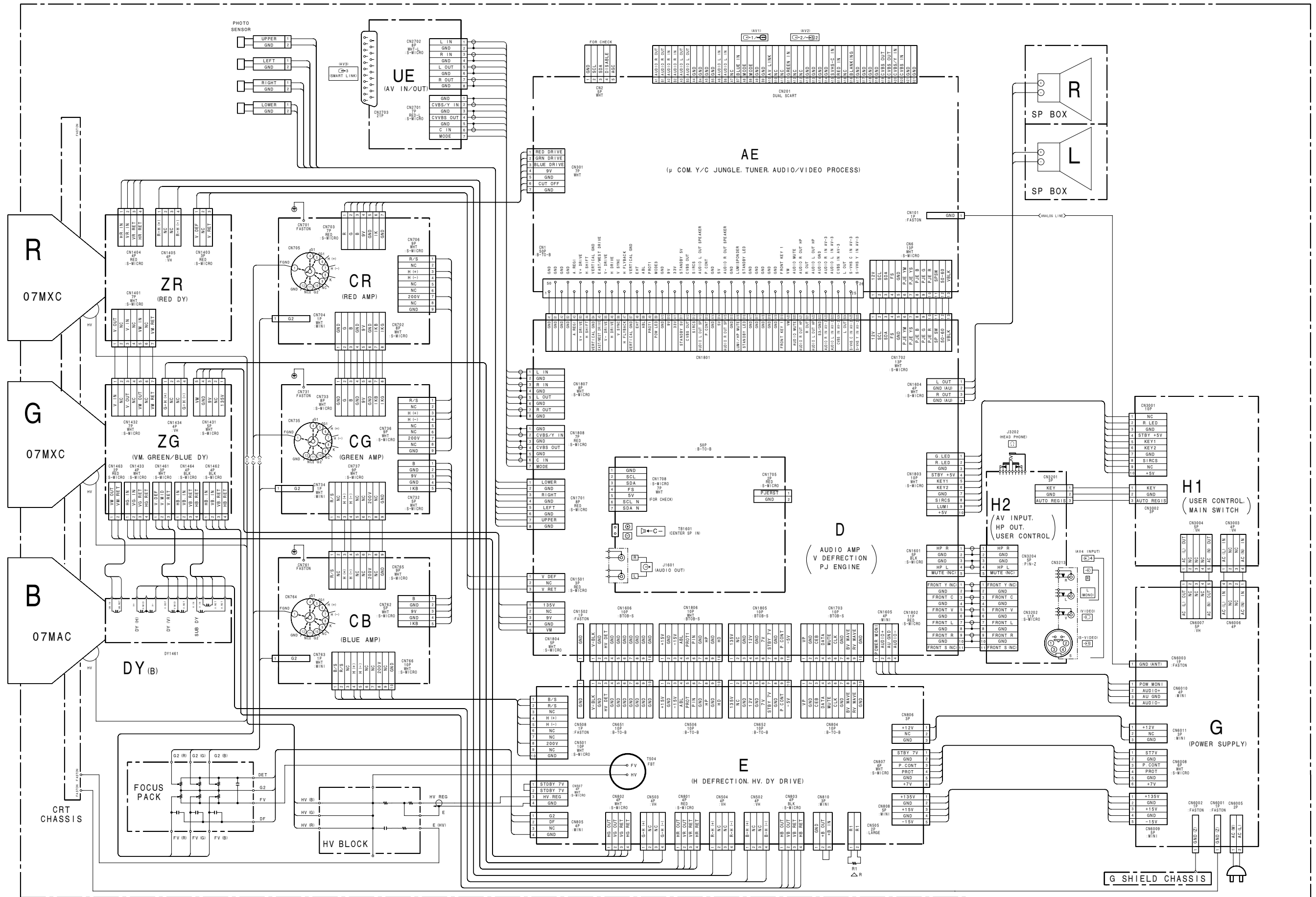




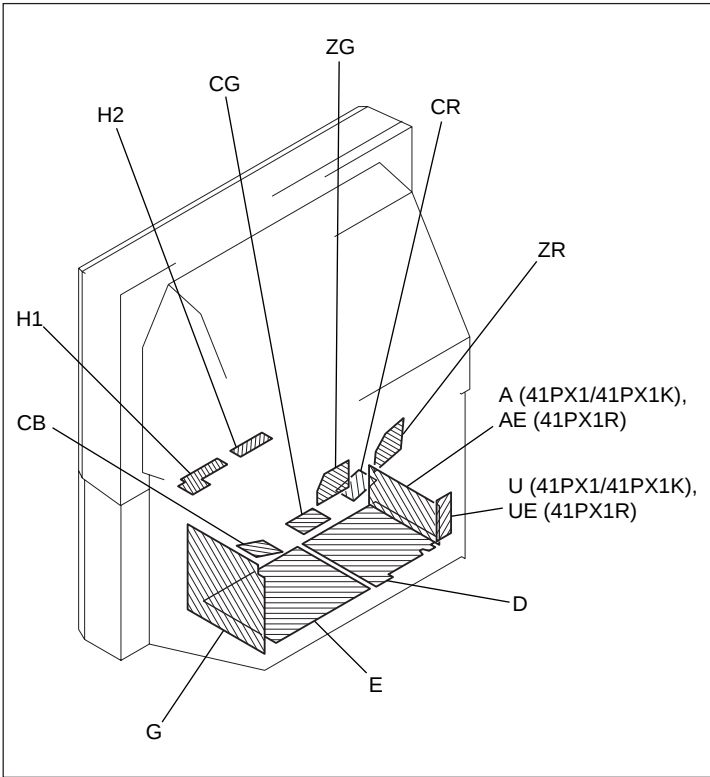


7-2. FRAME SCHEMATIC DIAGRAM (1) (41PX1/41PX1K)





7-3. CIRCUIT BOARDS LOCATION



7-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- The parts marked “#” on schematic diagrams are not mounted.
- All capacitors are in μF unless otherwise noted. (pF: μF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

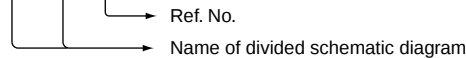
Pitch: 5 mm
Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- NO MARK: Common
- < >: SECAM
- () : NTSC 3.58 MHz
- Circled numbers are waveform references.
- : B + bus.
- : B – bus.
- : Signal path.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. (See page 31)
- When replacing the part in below table, be sure to perform the related adjustment.

Part Replaced (▣)				
R1				
Part Replaced (▣)				
E Board	C515, L506, R517,	C516, Q502, T502,	C554, R1, T504 (FBT)	D504, D507, R514, R516,
G Board	IC6005			

- Divided schematic diagram
Schematic diagrams of A, AE, D, and E boards are divided into several pieces. Information to where the line is to be connected is printed at the end of each line.
For example, [TO A1/5,A2/5_1] means the line is connected to Ref. No. 1 of A (1/5) and A (2/5) schematic diagrams.

TO A1/5,A2/5_1



Reference information

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

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

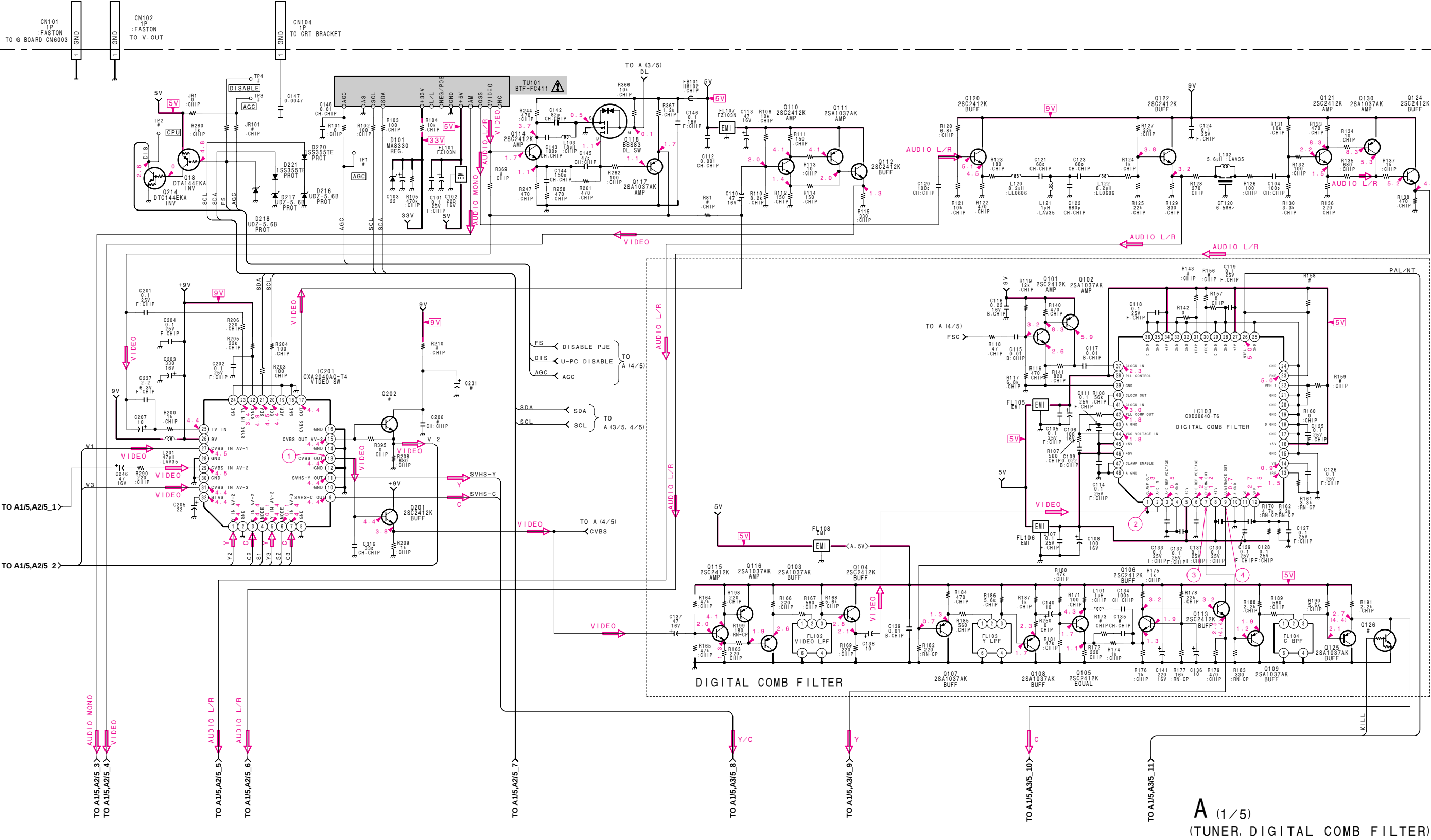
Terminal name of semiconductors in silk screen printed circuit (✳)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector Base Emitter	
②	Transistor		Collector Base Emitter	
③	Diode		Cathode Anode	
④	Diode		Cathode Anode (NC)	
⑤	Diode		Cathode Anode (NC)	
⑥	Diode		Common Anode Cathode	
⑦	Diode		Common Anode Cathode	
⑧	Diode		Common Anode Anode	
⑨	Diode		Common Anode Anode	
⑩	Diode		Common Cathode Cathode	
⑪	Diode		Common Cathode Cathode	
⑫	Diode		Anode Anode Cathode Cathode	
⑬	Transistor (FET)		Drain Source Gate	
⑭	Transistor (FET)		Drain Source Gate	
⑮	Transistor (FET)		Source Drain Gate	
⑯	Transistor		Emitter Collector Base	
⑰	Transistor		C2(B1)E1 E2(B2)C1	
⑱	Transistor		C1(B2)E2 E1(B1)C2	
⑲	Transistor		C1 B2 E2 E1 B1 C2	
⑳	Transistor		C1 B2 E2 E1 B1 C2	
㉑	Transistor		E2 B1 E1 C2 C1(B2)	
㉒	Transistor		(B2) B1 E1 E2 C1 C2	
㉓	Transistor		(B2) E2 E1 B1 C2 C1	
—	Discrete semiconductot			

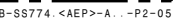
(Chip semiconductors that are not actually used are included.)

Ver.1.5

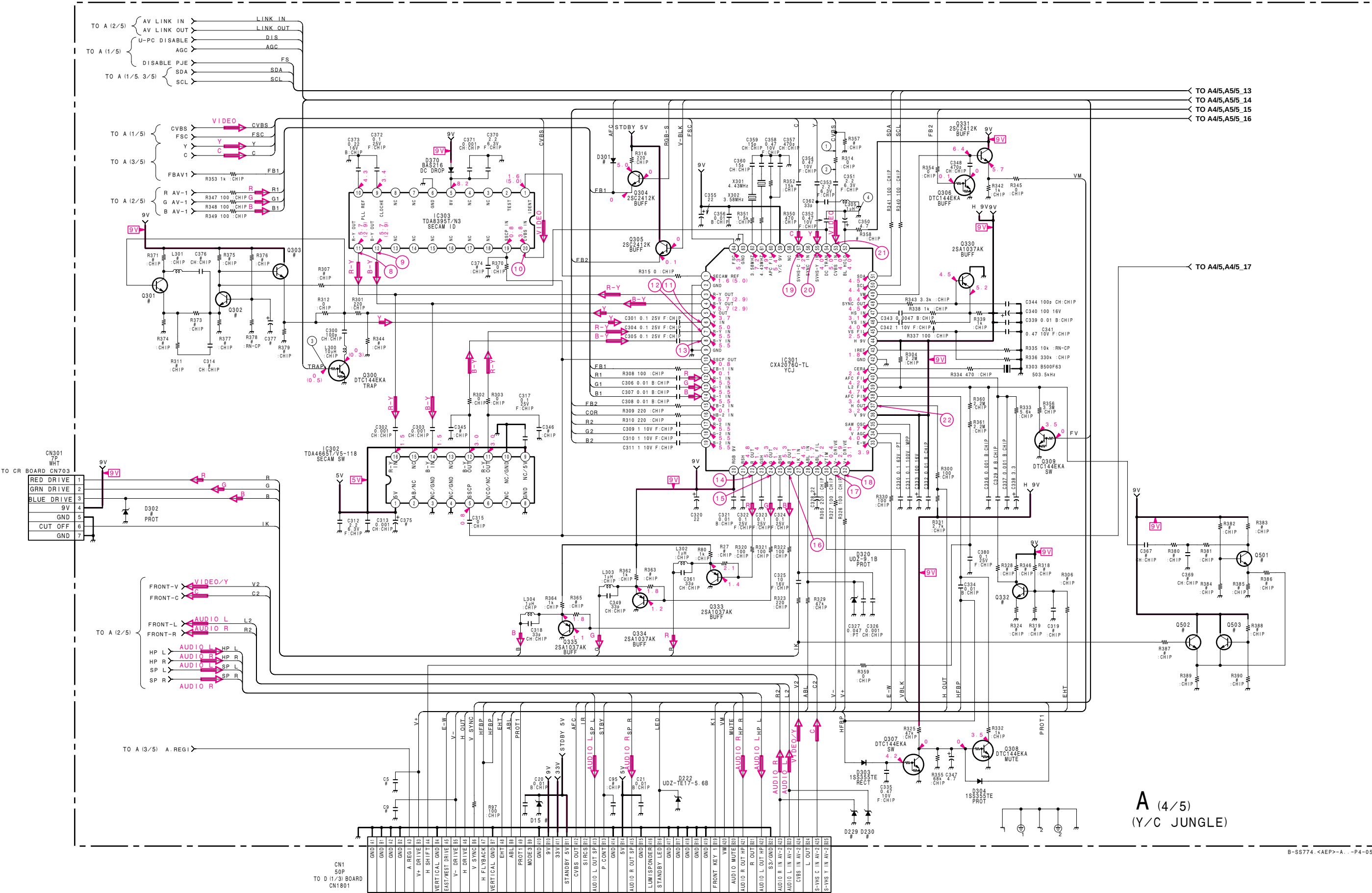
(1) Schematic Diagram of A (1/5) Board (41PX1/41PX1K)



A (1/5)
(TUNER, DIGITAL COMB FILTER)



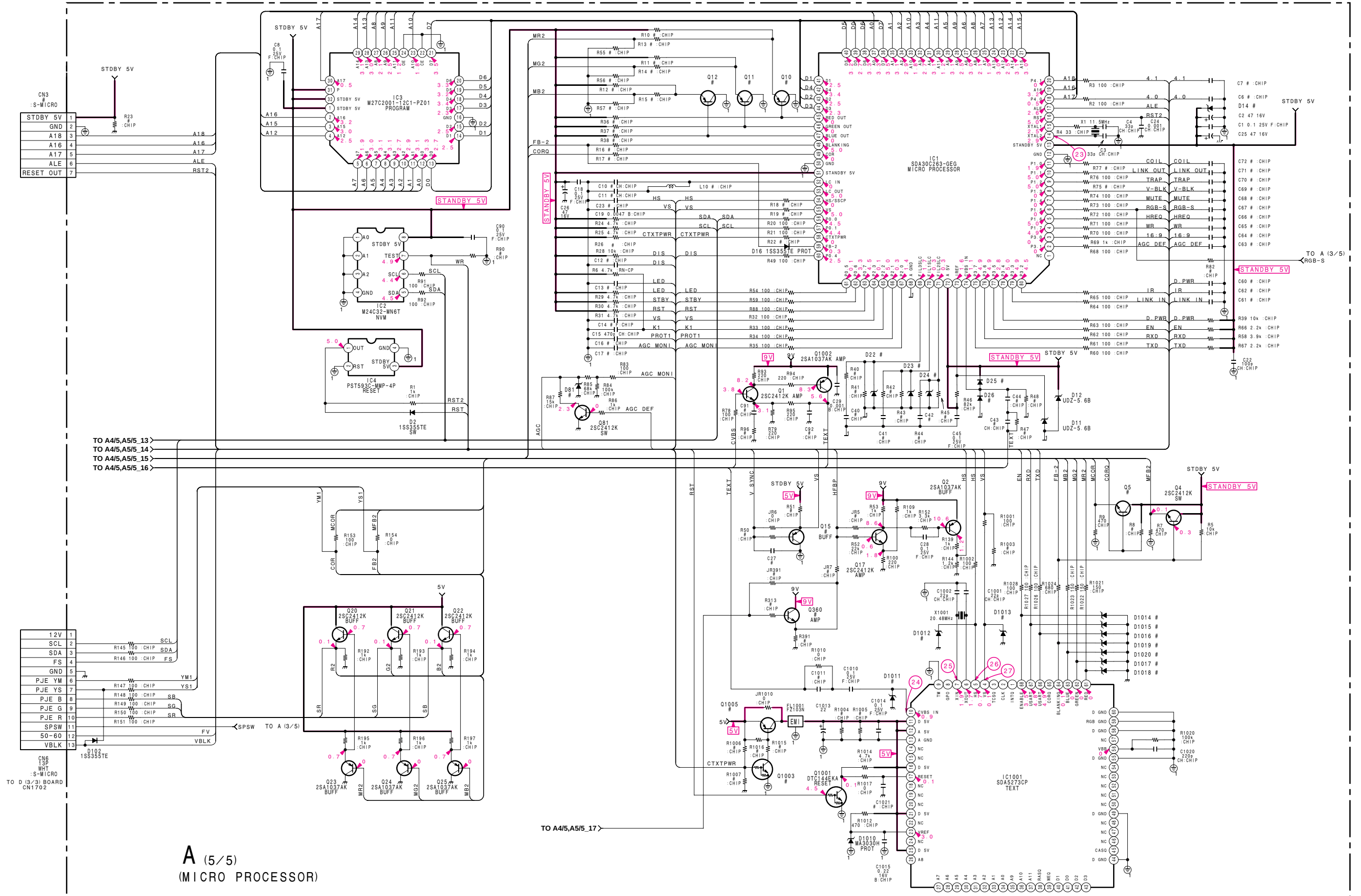
(4) Schematic Diagram of A (4/5) Board (41PX1/41PX1K)



(5) Schematic Diagram of A (5/5) Board (41PX1/41PX1K)

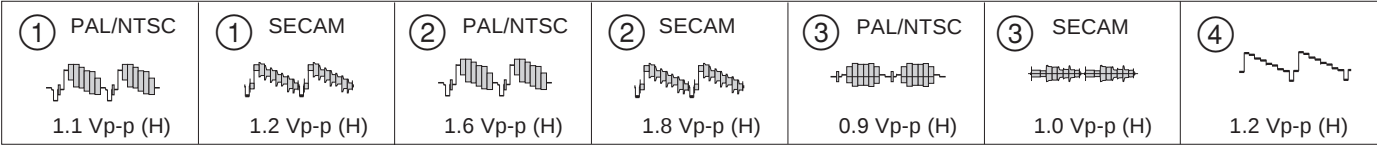
KP-41PX1/41PX1K/41PX1R

RM-892 RM-892 RM-862

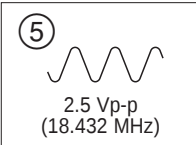


A (5/5)
(MICRO PROCESSOR)

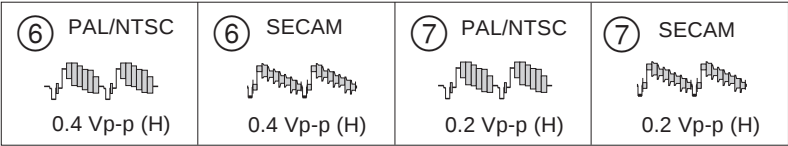
• A (1/5) BOARD WAVEFORMS (41PX1/41PX1K)



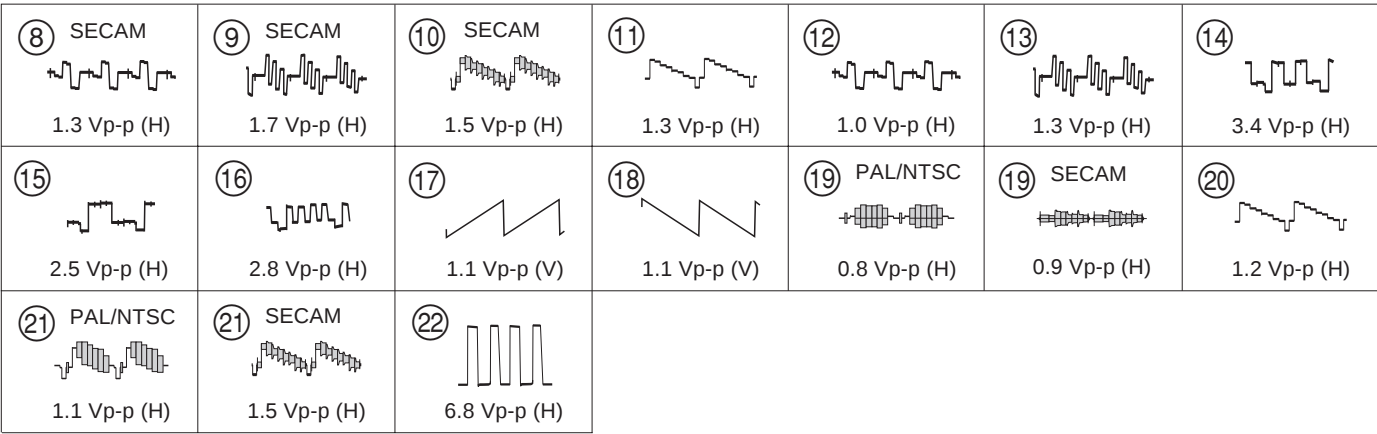
• A (2/5) BOARD WAVEFORM (41PX1/41PX1K)



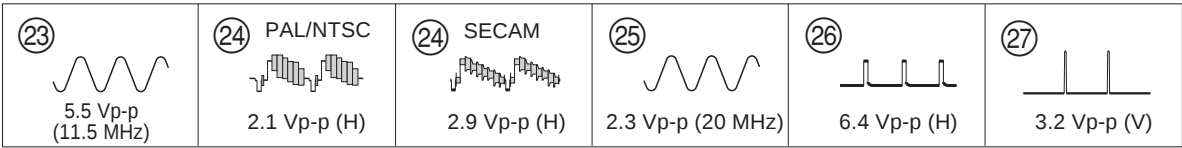
• A (3/5) BOARD WAVEFORMS (41PX1/41PX1K)



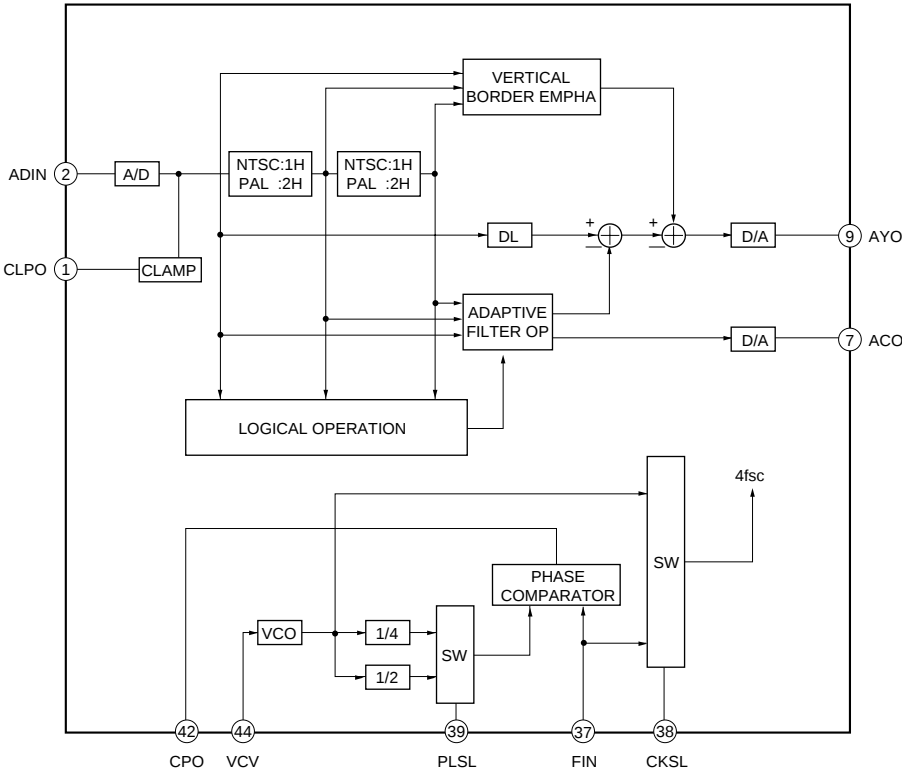
• A (4/5) BOARD WAVEFORMS (41PX1/41PX1K)



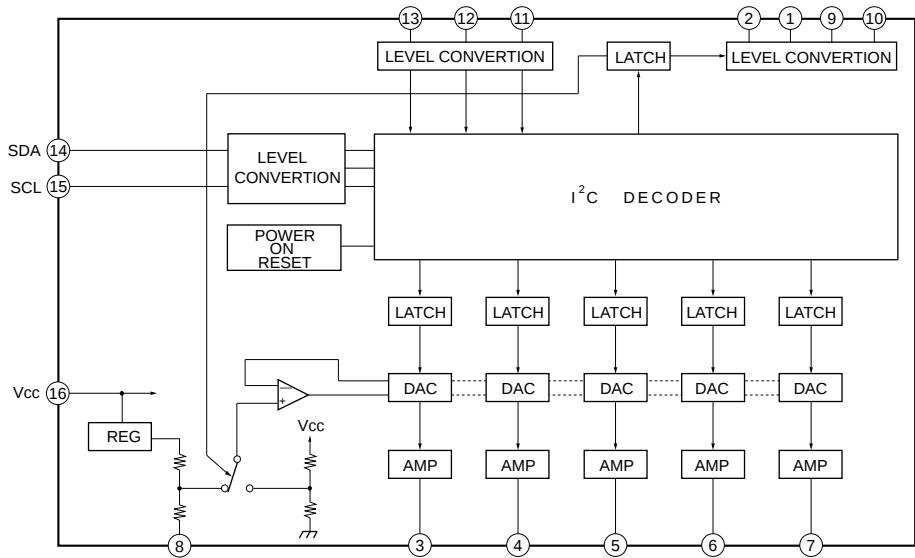
• A (5/5) BOARD WAVEFORMS (41PX1/41PX1K)



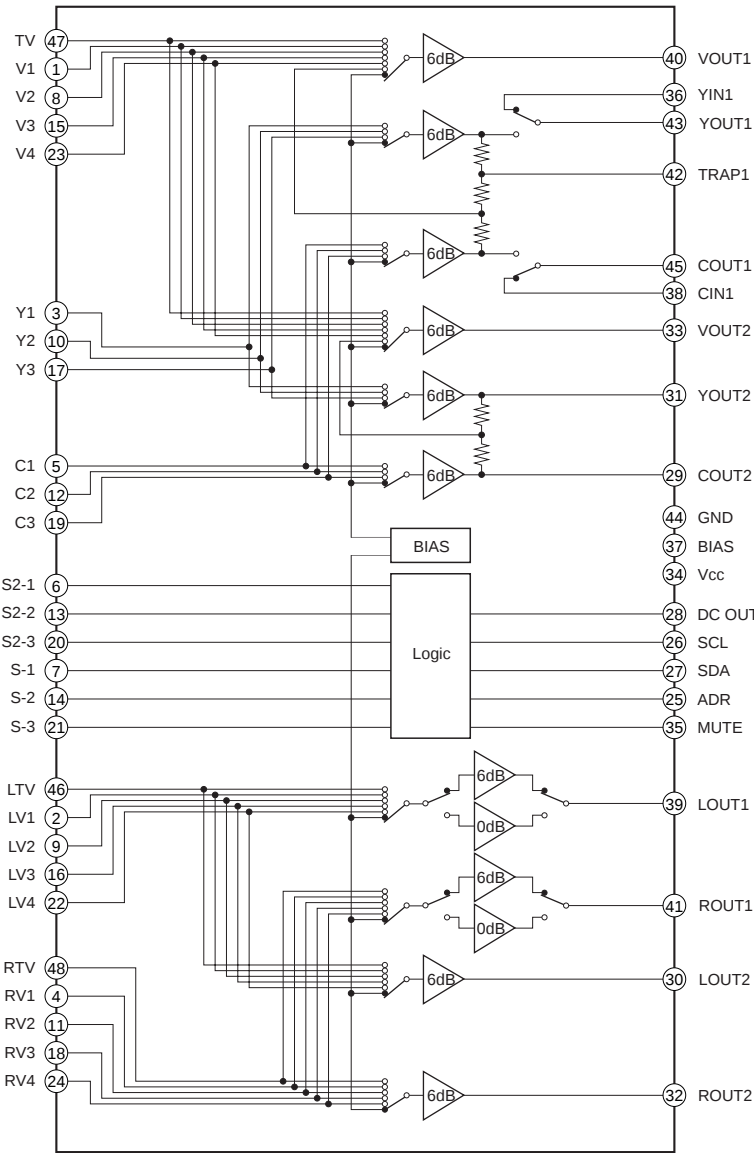
• A (1/5) BOARD IC103 (41PX1/41PX1K)
CXD2064Q



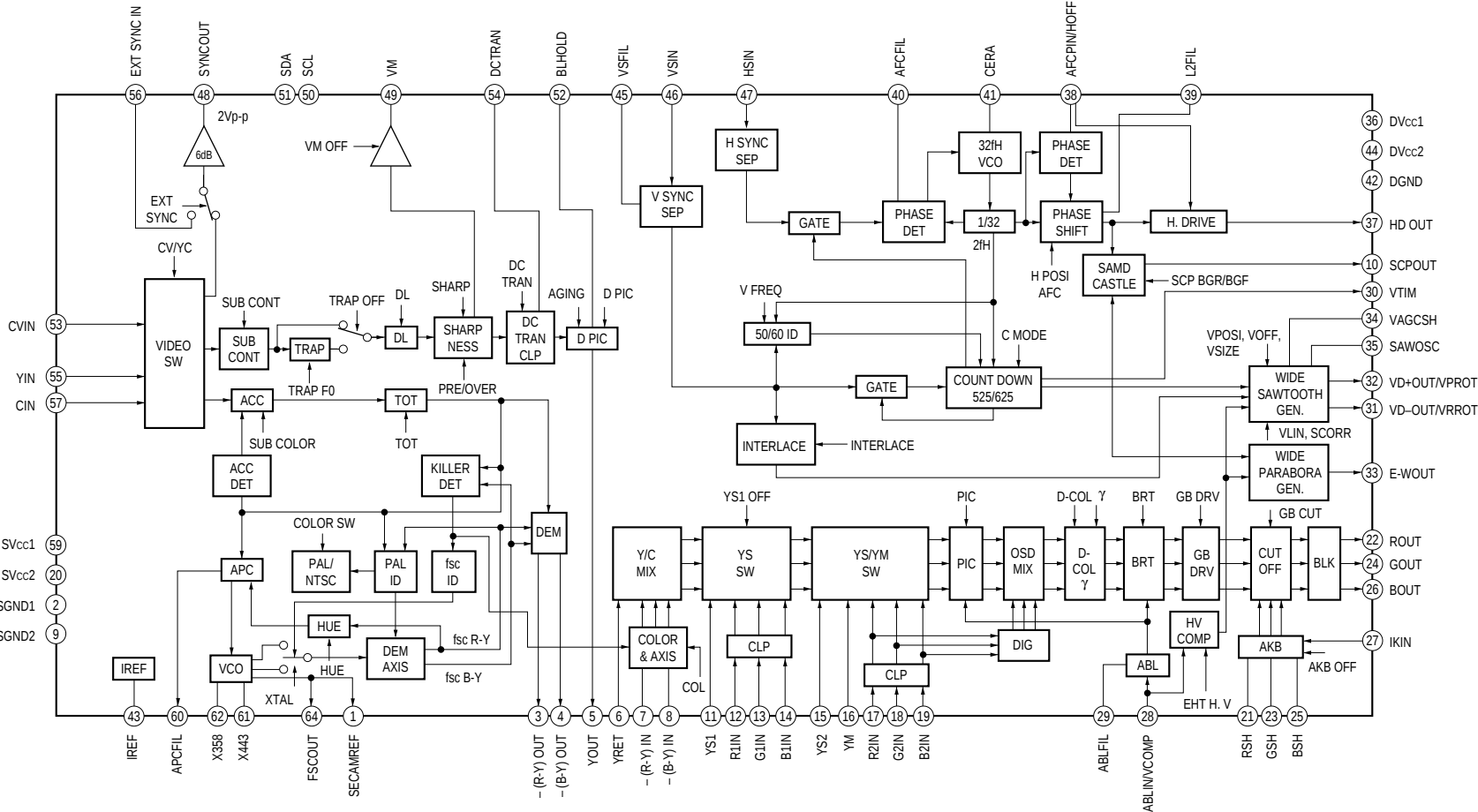
• A (3/5) BOARD IC206 (41PX1/41PX1K)
CXA1315M



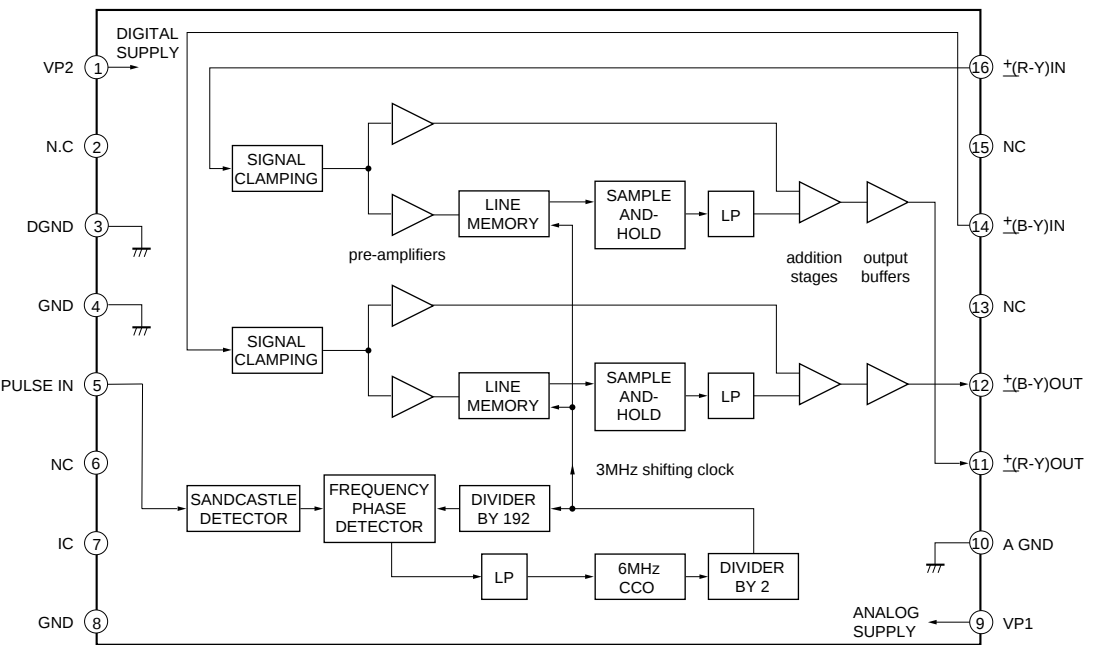
• A (3/5) BOARD IC4003 (41PX1/41PX1K)
CXA2089Q



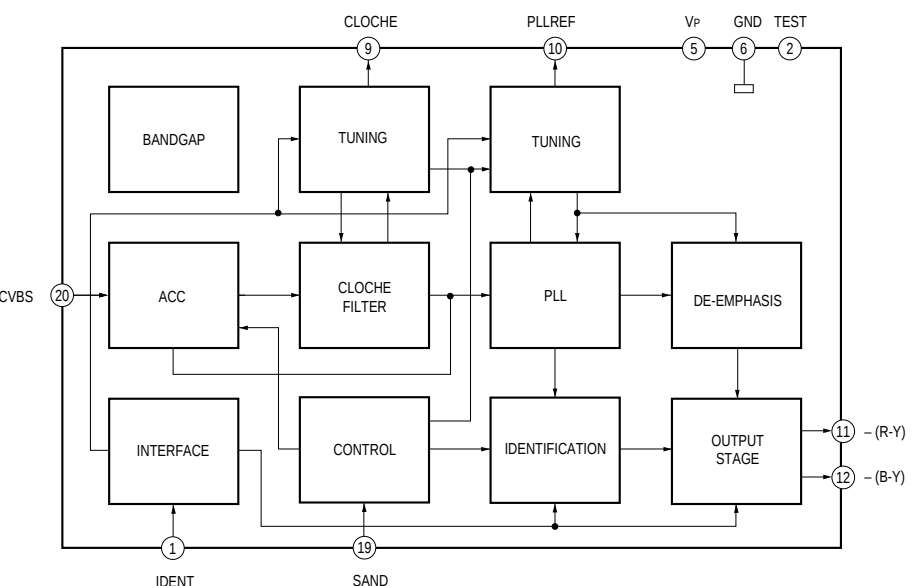
• A (4/5) BOARD IC301 (41PX1/41PX1K)
CXA2076Q

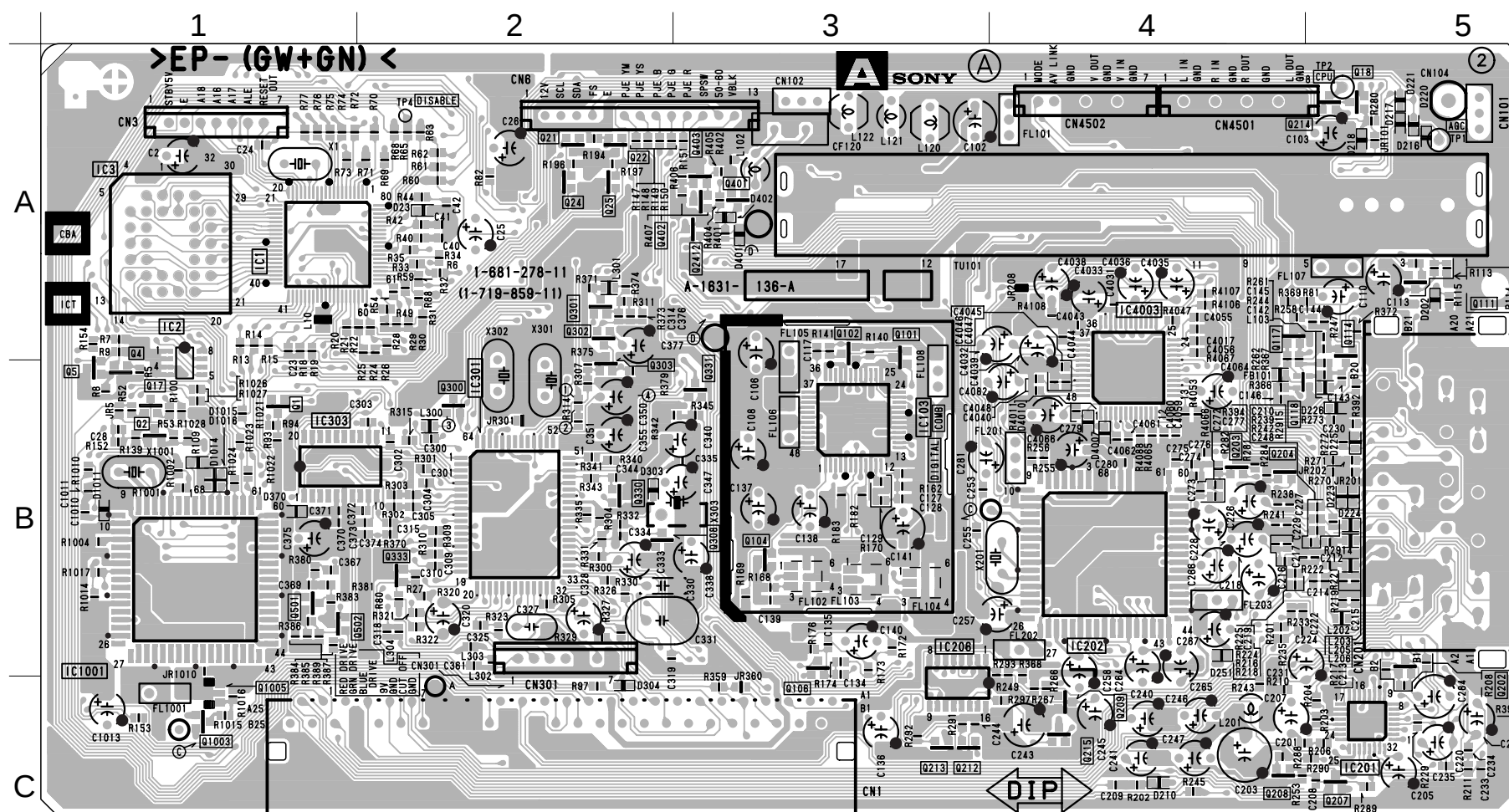


• A (4/5) BOARD IC302 (41PX1/41PX1K)
TDA4665T



• A (4/5) BOARD IC303 (41PX1/41PX1K)
TDA8395T

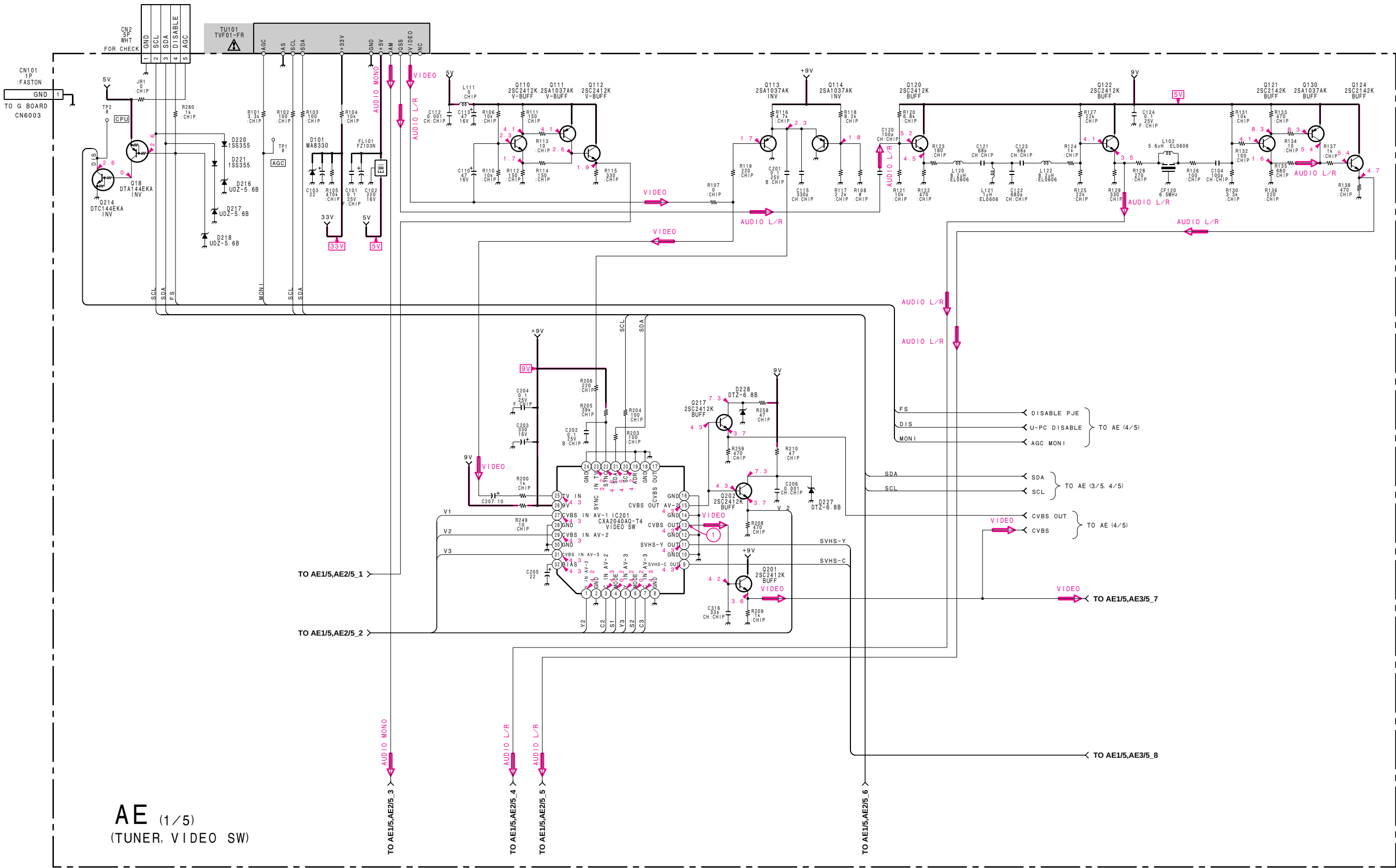




IC			Q300	B-2	(2)
			Q308	B-2	(2)
IC1	A-1	(2)	Q330	B-2	(2)
IC2	A-1	(2)	Q331	B-3	(2)
IC3	A-1	(2)	Q333	B-2	(2)
IC103	B-3	(2)	Q401	A-3	(2)
IC201	C-5	(2)	Q402	A-3	(2)
IC202	B-4	(2)	Q403	A-3	(2)
IC206	B-3	(2)	Q2412	A-3	(2)
IC301	B-2	(2)	DIODE		
IC303	B-1	(2)			
IC1001	B-1	(2)	* (3)		
IC4003	A-4	(2)			
TRANSISTOR			D202	A-5	(3)
			D210	C-4	(3)
*			D216	A-5	(3)
			D217	A-5	(3)
Q1	B-1	(2)	D218	A-5	(3)
Q2	B-1	(2)	D220	A-5	(3)
Q4	B-1	(2)	D221	A-5	(3)
Q17	B-1	(2)	D223	B-5	(3)
Q18	A-5	(2)	D224	B-5	(3)
Q21	A-2	(2)	D225	B-5	(3)
Q22	A-2	(2)	D226	B-5	(3)
Q24	A-2	(2)	D251	B-4	(3)
Q25	A-2	(2)	D303	B-2	(3)
Q101	A-3	(2)	D304	C-2	(3)
Q102	A-3	(2)	D370	B-1	(3)
Q104	B-3	(2)	D401	A-3	(3)
Q106	B-3	(2)	D402	A-3	(3)
Q111	A-5	(2)	D4007	B-4	(3)
Q114	A-5	(2)	D4010	B-4	(3)
Q117	A-4	(2)	CRYSTAL		
Q118	B-4	(15)			
Q203	B-4	(2)	X1	A-1	(2)
Q204	B-4	(2)	X201	B-4	(2)
Q207	C-5	(2)	X301	A-2	(2)
Q208	C-4	(2)	X302	A-2	(2)
Q209	C-4	(2)	X303	B-3	(2)
Q212	C-3	(2)	X1001	B-1	(2)
Q213	C-3	(2)			
Q214	A-5	(2)			
Q215	C-4	(2)			

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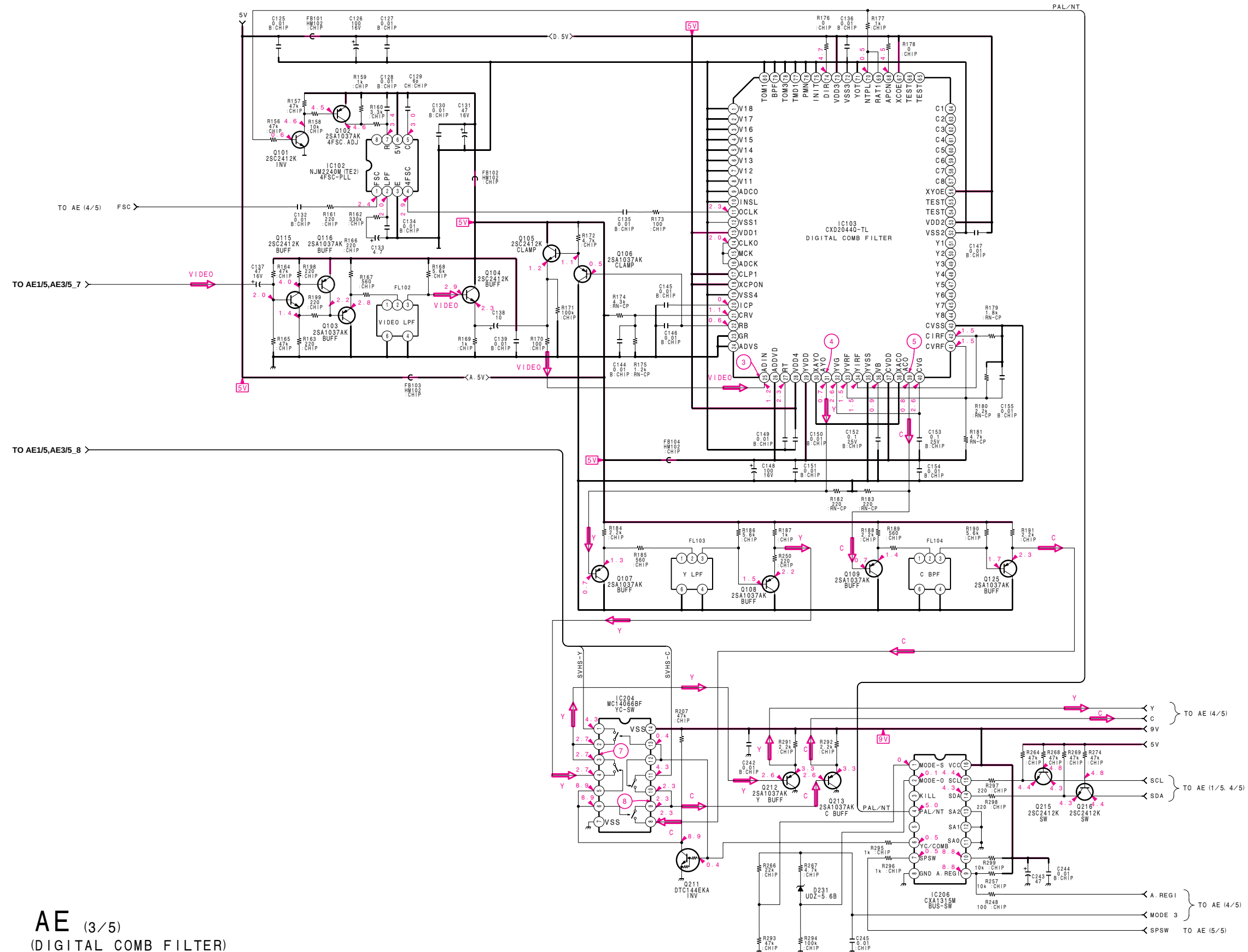
(6) Schematic Diagram of AE (1/5) Board (41PX1R)



AE (1/5)
(TUNER, VIDEO SW)

AE (2/5)
(AUDIO PROCESSOR)



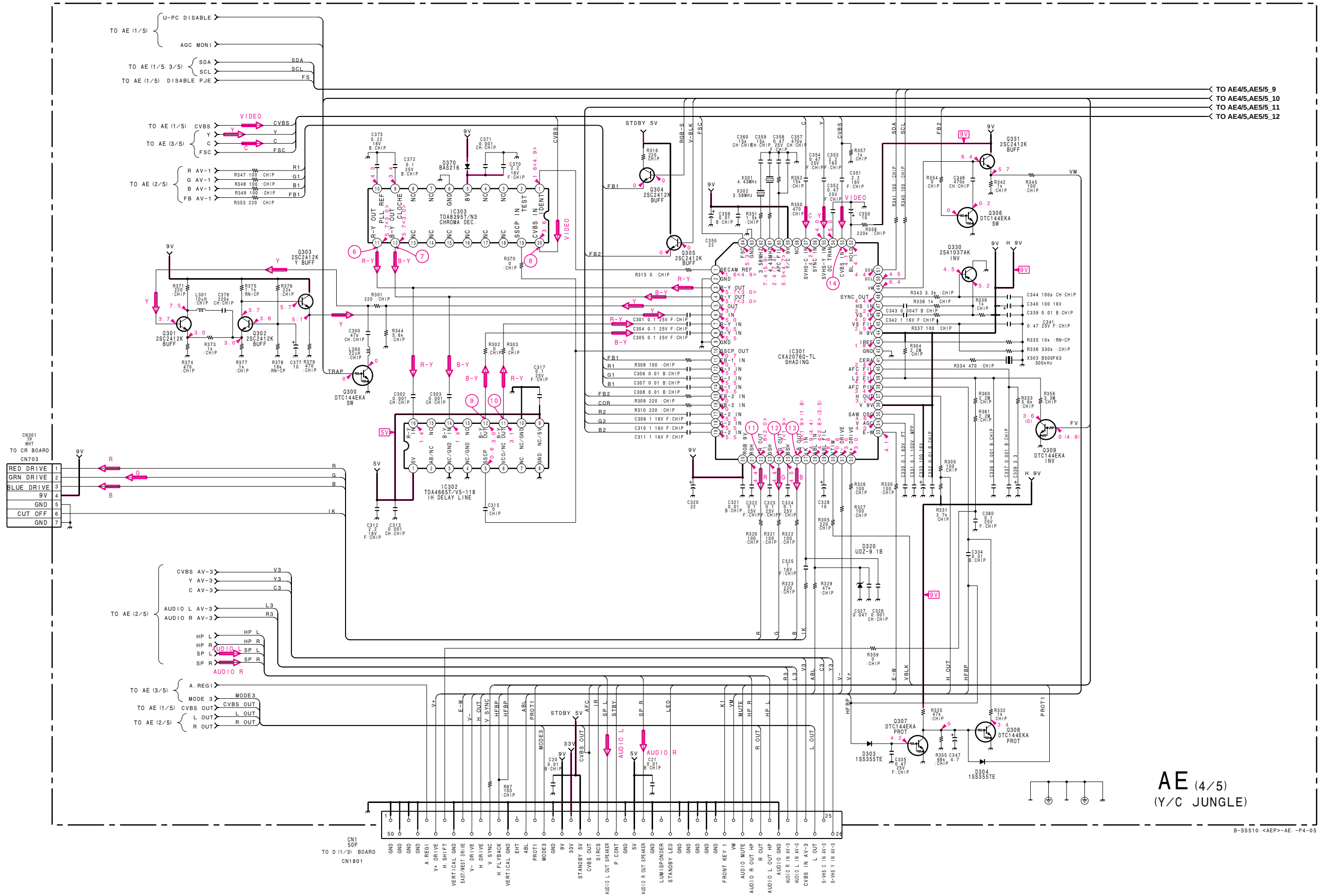


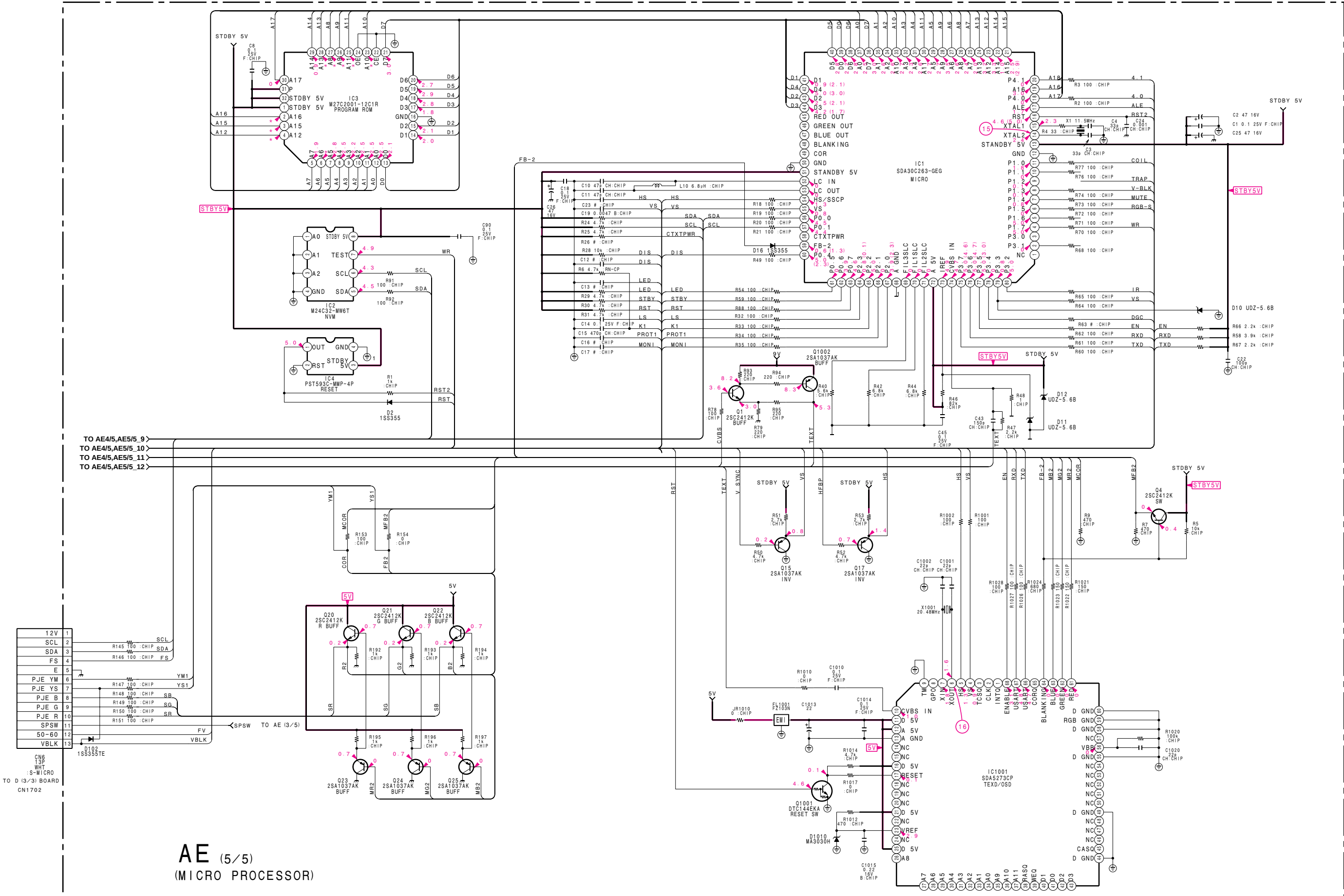
AE (3/5)
(DIGITAL COMB FILTER)

(9) Schematic Diagram of AE (4/5) Board (41PX1R)

KP-41PX1/41PX1K/41PX1R

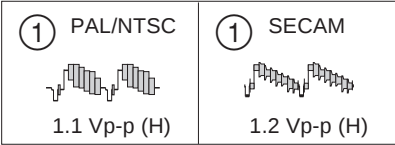
RM-892 RM-892 RM-862



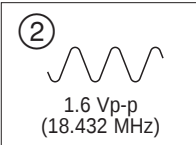


AE (5/5)
(MICRO PROCESSOR)

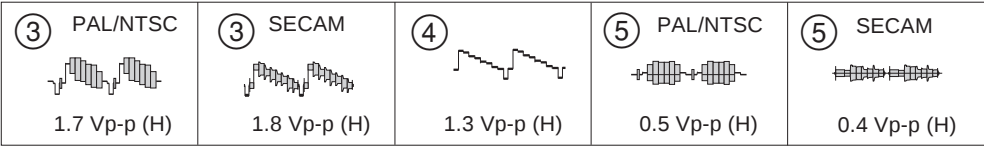
• AE (1/5) BOARD WAVEFORMS (41PX1R)



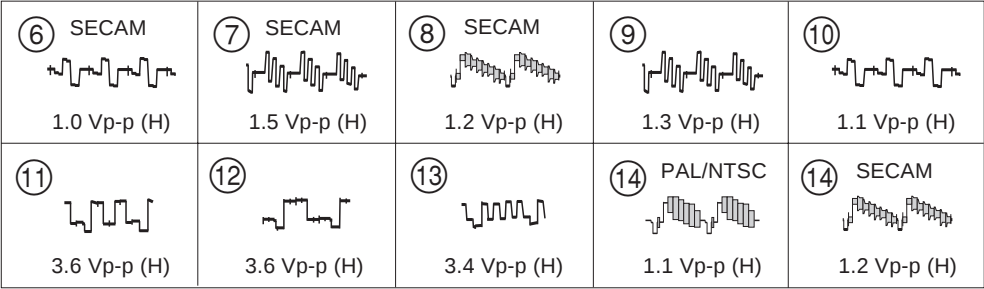
• AE (2/5) BOARD WAVEFORM (41PX1R)



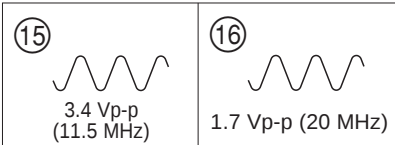
• AE (3/5) BOARD WAVEFORMS (41PX1R)



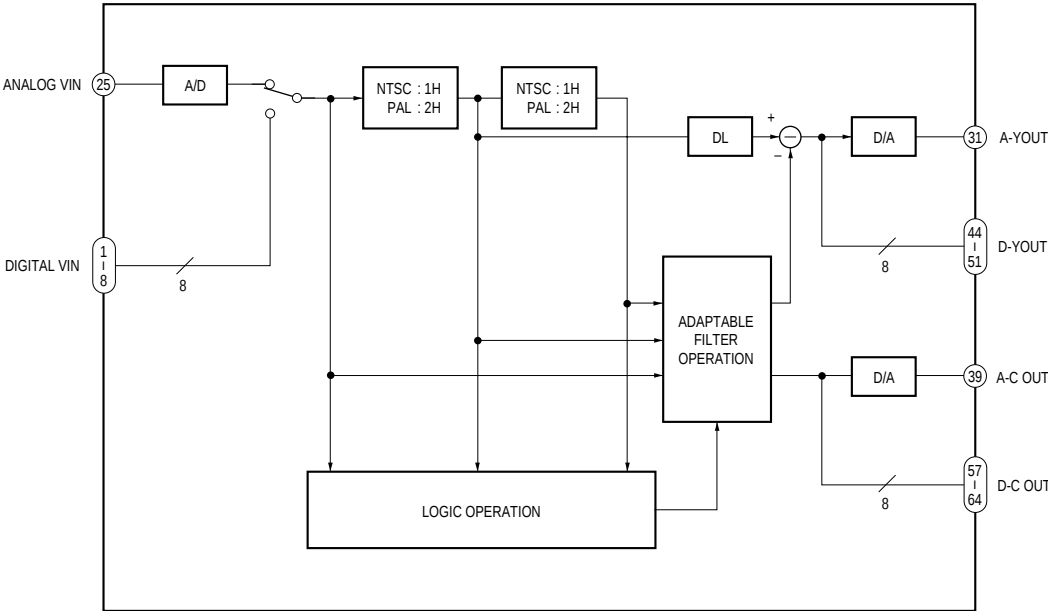
• AE (4/5) BOARD WAVEFORMS (41PX1R)



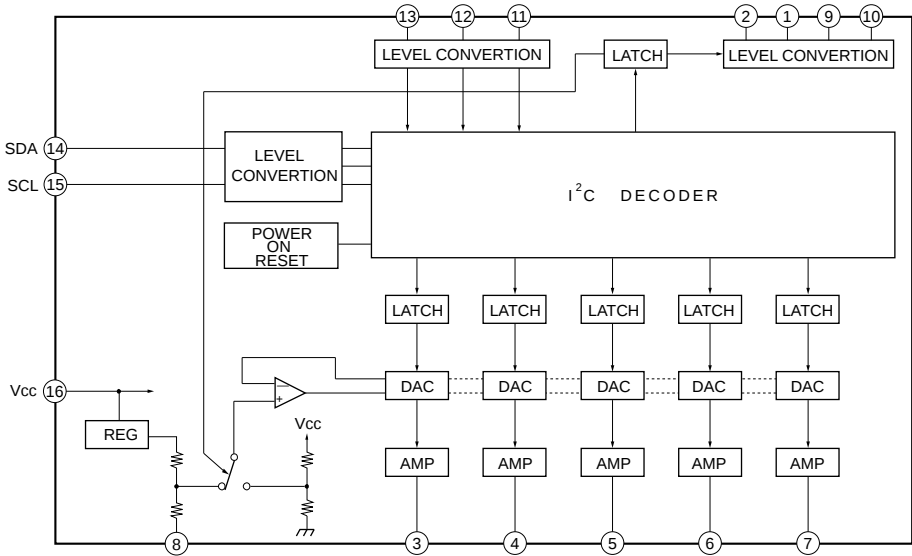
• AE (5/5) BOARD WAVEFORMS (41PX1R)



• AE (3/5) BOARD IC103 (41PX1R)
CXD2044Q

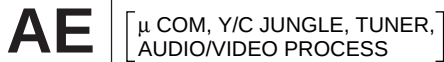


• AE (3/5) BOARD IC206 (41PX1R)
CXA1315M

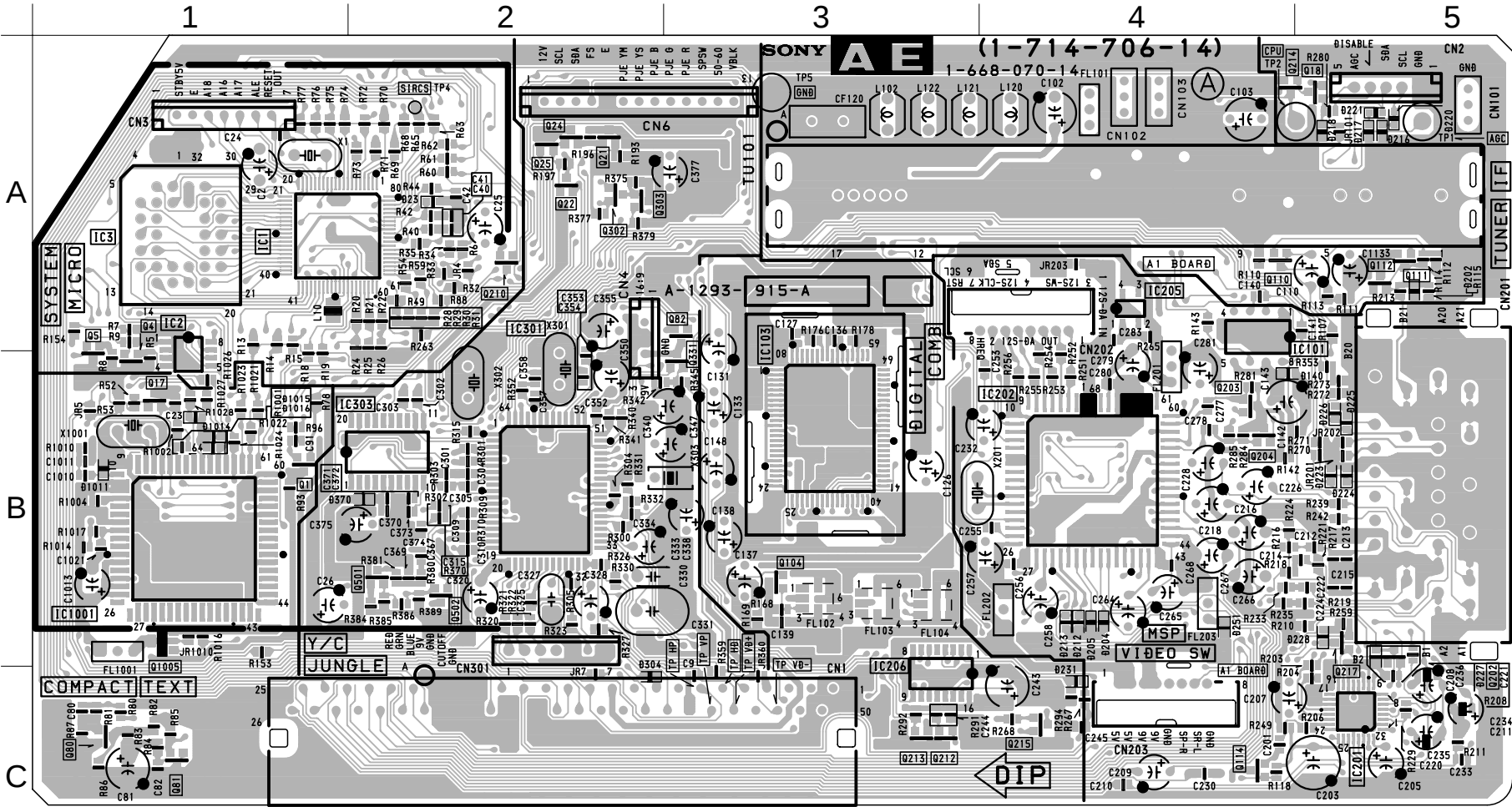


The block diagram illustrates the internal architecture of the AD9842 evaluation board, organized into digital and analog sections. The digital section (top) includes a DIGITAL SUPPLY (pin 1), a PULSE IN (pin 5), and a 6MHz CCO (pin 9). The analog section (bottom) includes an ANALOG SUPPLY (pin 9), a 3MHz shifting clock (pin 10), and a 6MHz CCO (pin 9). The core processing blocks include two channels of pre-amplifiers, LINE MEMORY, SAMPLE AND-HOLD, LP (Low Pass), addition stages, and output buffers. The output buffers drive the (R-Y)IN (pin 16), (B-Y)IN (pin 14), (B-Y)OUT (pin 12), and (R-Y)OUT (pin 11) signals. The board also features a SANDCASTLE DETECTOR, a FREQUENCY PHASE DETECTOR, and a DIVIDER BY 192. The board is powered by a DIGITAL SUPPLY (pin 1) and an ANALOG SUPPLY (pin 9). The board is connected to a GND (pin 4) and a PULSE IN (pin 5). The board is also connected to a 6MHz CCO (pin 9) and a 3MHz shifting clock (pin 10). The board is connected to a 6MHz CCO (pin 9) and a 3MHz shifting clock (pin 10). The board is connected to a 6MHz CCO (pin 9) and a 3MHz shifting clock (pin 10).

[illegible]



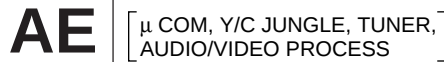
— AE BOARD (Component Side) — (41PX1R)



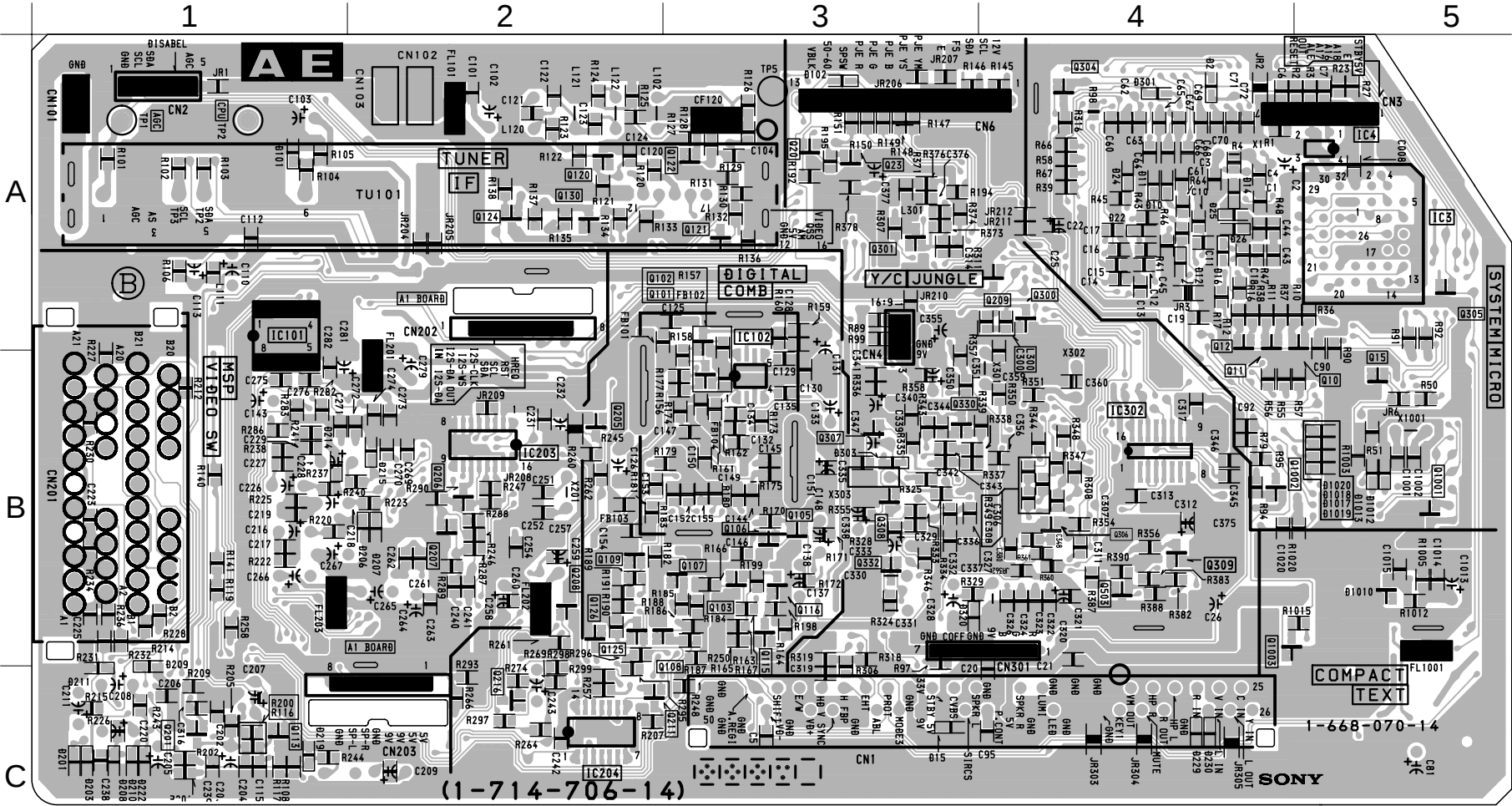
• AE BOARD SEMICONDUCTOR LOCATION (Component Side)

IC		DIODE	
IC1	A-1		*
IC2	A-1	D202	A-5 ③
IC3	A-1	D204	B-4 ③
IC103	B-3	D205	B-4 ③
IC201	C-5	D212	B-4 ③
IC202	B-4	D213	B-4 ③
IC205	A-4	D216	A-5 ③
IC206	C-3	D217	A-5 ③
IC301	B-2	D218	A-5 ③
IC303	B-2	D220	A-5 ③
IC1001	B-1	D221	A-5 ③
		D223	B-5 ③
		D224	B-5 ③
		D225	B-5 ③
		D226	B-5 ③
		D227	C-5 ③
		D228	B-5 ③
		D231	C-4 ③
		D251	B-4 ③
		D304	C-2 ③
		D370	B-2 ③
TRANSISTOR		CRYSTAL	
Q1	B-1	X1	A-1
Q4	A-1	X201	B-4
Q17	B-1	X301	B-2
Q18	A-5	X302	B-2
Q21	A-2	X303	B-3
Q22	A-2	X1001	B-1
Q24	A-2		
Q25	A-2		
Q104	B-3		
Q110	A-4		
Q111	A-5		
Q112	A-5		
Q114	C-4		
Q202	C-5		
Q203	B-4		
Q204	B-4		
Q212	C-3		
Q213	C-3		
Q214	A-4		
Q215	C-4		
Q217	C-5		
Q302	A-2		
Q303	A-2		
Q331	B-3		

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 54)



— AE BOARD (Conductor Side) — (41PX1R)



• AE BOARD SEMICONDUCTOR LOCATION (Conductor Side)

IC		DIODE	
IC3	A-5	D2	A-4 *
IC4	A-5	D10	A-4 ③
IC102	A-3	D11	A-4 ③
IC204	C-2	D12	A-4 ③
IC302	B-4	D16	A-4 ③
TRANSISTOR		D101	A-1 ③
		D102	A-3 ③
		D201	C-1 ③
		D203	C-1 ③
		D206	B-2 ③
		D207	B-2 ③
		D208	C-1 ③
		D209	C-1 ③
		D210	C-1 ③
		D211	C-1 ③
		D214	B-1 ③
		D215	B-2 ③
		D222	C-1 ③
		D303	B-3 ③
		D320	B-3 ③
		D1010	B-5 ④
		CRYSTAL	
		X1	A-4
		X201	B-2
		X301	B-4
		X302	B-4
		X303	B-3
		X1001	B-5
Q15	B-5 ①		
Q20	A-3 ①		
Q23	A-3 ①		
Q101	A-3 ①		
Q102	B-3 ①		
Q103	B-3 ①		
Q105	B-3 ①		
Q106	B-3 ①		
Q107	B-3 ①		
Q108	C-3 ①		
Q109	B-2 ①		
Q113	C-1 ①		
Q115	B-3 ①		
Q116	B-3 ①		
Q120	A-2 ①		
Q121	A-3 ①		
Q122	A-3 ①		
Q124	A-2 ①		
Q125	B-2 ①		
Q130	A-2 ①		
Q201	C-1 ①		
Q211	C-3 ①		
Q216	C-2 ①		
Q300	A-4 ①		
Q301	A-3 ①		
Q304	A-4 ①		
Q305	A-5 ①		
Q306	B-4 ①		
Q307	B-3 ①		
Q308	B-3 ①		
Q309	B-4 ①		
Q330	B-3 ①		
Q1001	B-5 ①		
Q1002	B-4 ①		

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 54)

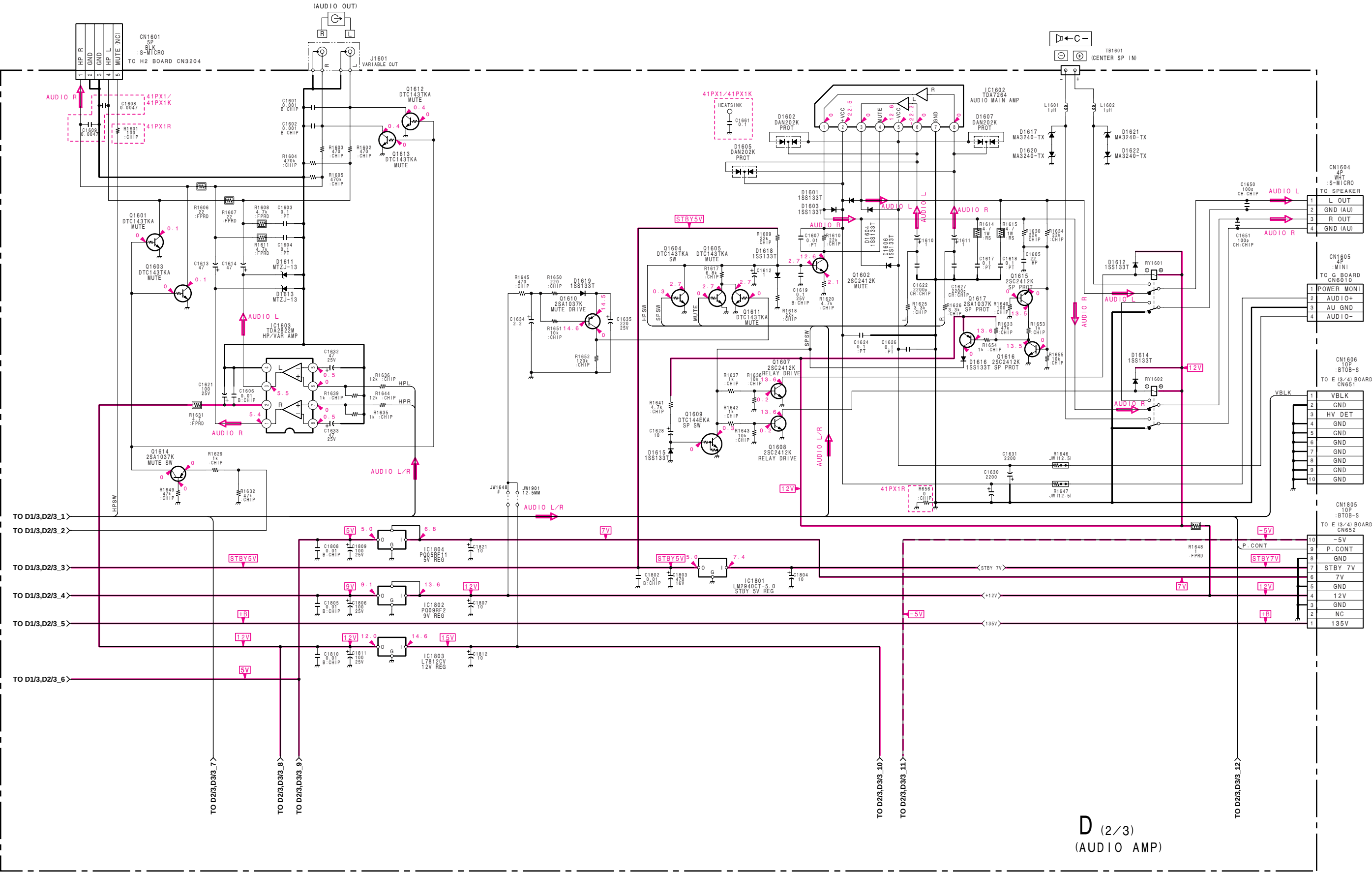
CN1801
50P
:BTOB
TO A (4/5) BOARD
CN1:41PX1/41PX1
TO AE (4/5) BOARD
CN1:41PX1R



Ref No.	41PX1/41PX1K	41PX1R
C1816	JW(5)	10μF
C1817	JW(5)	10μF
C1822	0	0.47 25V
C1824	0	0.47 25V
L1802	10μH	JW(5)
R1806	68	82
R1807	0	2.7k
R1808	0	2.7k
R1810	68	82
R1819	0	2.7k
R1820	0	2.7k
R1824	0	47k
R1825	0	47k
R1826	0	47k
R1829	0	47k
R1832	1.2k	1k
R1842	1.2k	1k

D (1/3)
(VIDEO BUFFER)

(12) Schematic Diagram of D (2/3) Board



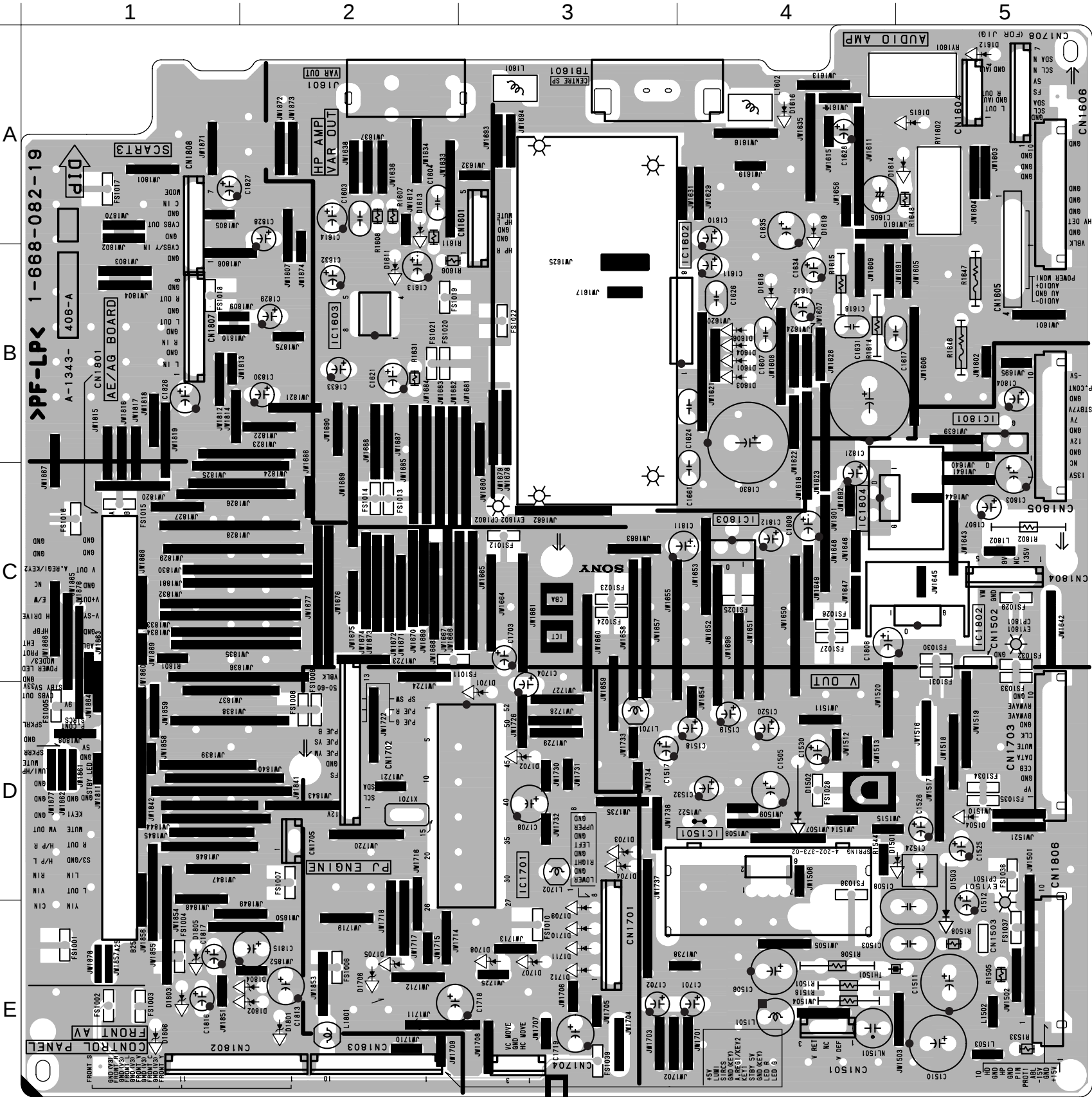
D (3/3)
(PJ ENGINE, V DEFRECTION)

• D (3/3) BOARD WAVEFORMS

①  57.5 Vp-p (V)	②  0.5 Vp-p (V)	③  0.5 Vp-p (V)	④  4.7 Vp-p (H)	⑤  4.7 Vp-p (V)	⑥  3.6 Vp-p (8 MHz)
⑦  4.7 Vp-p (V)	⑧  4.7 Vp-p (H)	⑨  1.3 Vp-p (V)	⑩  1.3 Vp-p (V)		

D [AUDIO AMP, V DEFLECTION,
PJ ENGINE]

— D BOARD (Component Side) —



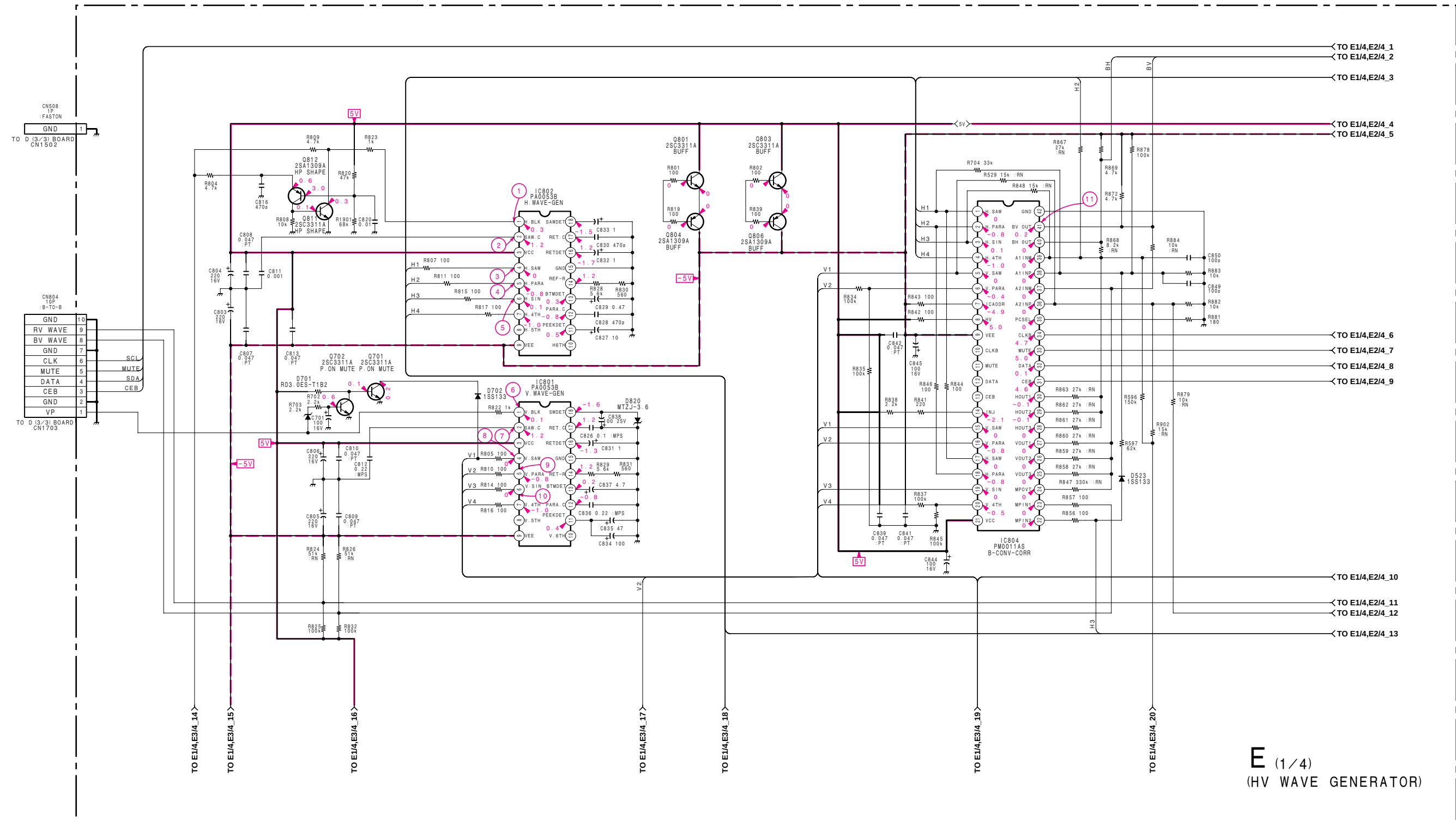
• D BOARD SEMICONDUCTOR LOCATION
(Component Side)

IC	
IC1501	D-4
IC1602	B-4
IC1603	B-2
IC1701	D-3
IC1801	B-5
IC1802	C-5
IC1803	C-4
IC1804	C-4
DIODE	
D1501	D-4
D1502	D-4
D1503	D-5
D1504	D-5
D1601	B-4
D1603	B-4
D1604	B-4
D1606	B-4
D1611	B-2
D1612	A-5
D1613	A-2
D1614	A-5
D1615	A-5
D1616	A-4
D1618	B-4
D1619	A-4
D1703	D-3
D1704	D-3
D1705	E-2
D1706	E-2
D1707	E-3
D1708	E-3
D1709	E-3
D1710	E-3
D1711	E-3
D1712	E-3
D1801	E-2
D1802	E-2
D1803	E-1
D1804	E-2
D1805	E-1
D1806	E-1
CRYSTAL	
X1701	D-2

IC			Q1804	B-4	①
			Q1805	B-4	①
IC1501 D-2 IC1502 D-2 IC1503 D-2 IC1602 B-2 IC1603 B-4 IC1701 D-3 IC1702 D-3 IC1703 E-4 IC1704 E-3 IC1706 D-4 IC1801 B-1 IC1802 C-1 IC1803 C-2 IC1804 C-1 IC1805 B-5			Q1806	B-4	①
			Q1807	B-4	①
			Q1808	C-1	①
			Q1809	C-1	①
			DIODE		
			*		
			D1501	D-1	—
			D1502	D-2	—
			D1503	D-1	—
			D1504	D-1	—
D1505	D-1	③			
D1601	B-2	—			
D1602	B-2	⑧			
D1603	B-2	—			
D1604	B-2	—			
D1605	B-2	⑧			
D1606	B-2	—			
D1607	B-2	⑧			
TRANSISTOR			D1611	B-4	—
			D1612	A-1	—
*			D1613	A-4	—
			D1614	A-1	—
Q1501	D-1	①	D1615	A-1	—
Q1502	D-1	①	D1616	A-2	—
Q1503	D-1	①	D1617	A-3	④
Q1505	D-2	①	D1618	B-2	—
Q1601	A-4	①	D1619	A-2	—
Q1602	B-2	①	D1620	A-3	④
Q1603	A-3	①	D1621	A-2	④
Q1604	A-2	①	D1622	A-2	④
Q1605	A-2	①	D1703	D-3	—
Q1607	A-1	①	D1704	D-3	—
Q1608	A-1	①	D1705	E-4	—
Q1609	A-2	①	D1706	E-4	—
Q1610	B-2	①	D1707	E-3	—
Q1611	B-2	①	D1708	E-3	—
Q1612	A-4	①	D1709	E-3	—
Q1613	A-3	①	D1710	E-3	—
Q1614	A-4	①	D1711	E-3	—
Q1615	A-2	①	D1712	E-3	—
Q1616	A-2	①	D1801	E-4	—
Q1617	A-2	①	D1802	E-4	—
Q1701	E-2	①	D1803	E-5	—
Q1702	E-2	①	D1804	E-4	—
Q1703	E-2	①	D1805	E-5	—
Q1704	D-2	①	D1806	E-5	—
Q1705	D-2	①	CRYSTAL		
Q1706	D-4	①			
Q1707	D-3	①	X1701	D-4	
Q1708	D-3	①			
Q1709	E-3	①			
Q1710	C-3	①			
Q1711	D-3	①			
Q1801	E-4	①			
Q1802	A-4	①			
Q1803	A-4	①			

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(14) Schematic Diagram of E (1/4) Board



TO E1/4,E2/4_1>
TO E1/4,E2/4_2>

TO E1/4,E2/4_3>

TO E1/4,E2/4_4>
TO E1/4,E2/4_5>

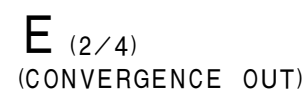
TO E1/4,E2/4_6>
TO E1/4,E2/4_7>
TO E1/4,E2/4_8>
TO E1/4,E2/4_9>

TO E1/4,E2/4_10>

TO E1/4,E2/4_11>
TO E1/4,E2/4_12>

TO E1/4,E2/4_13>

TO E2/4,E3/4_21>
TO E2/4,E3/4_22>
TO E2/4,E3/4_23>



E (3/4) (HV)

TO PICTURE TUBE R HV (R) 3000P
TO PICTURE TUBE G HV (G) 1000M
TO PICTURE TUBE B HV (B) 1000M
TO E (4/4) BOARD T504

<HV_BLOCK>

CN507 4P :S-MICRO
GND 4
HV.REG 3
STDBY 7V 2
STDBY 7V 1

CN506 10P :B-T0-B
HD 10
GND 9
HP 8
GND 7
PIN 6
PROT 5
ABL 4
-15V 3
GND 2
+15V 1

TO D (3/3) BOARD CN1806

CN552 10P :B-T0-B
-5V 10
P. CONT 9
GND 8
STBY 7V 7
7V 6
GND 5
12V 4
GND 3
NC 2
135V 1

TO D (2/3) BOARD CN1805

CN806 3P
GND 3
NC 2
+12V 1

TO G BOARD CN6011

CN807 4P :S-MICRO
GND 5
PROT 4
P. CONT 3
GND 2
STBY 7V 1

TO G BOARD CN6008

CN808 5P :MINI
-15V 5
GND 4
+15V 3
GND 2
+135V 1

TO G BOARD CN6009

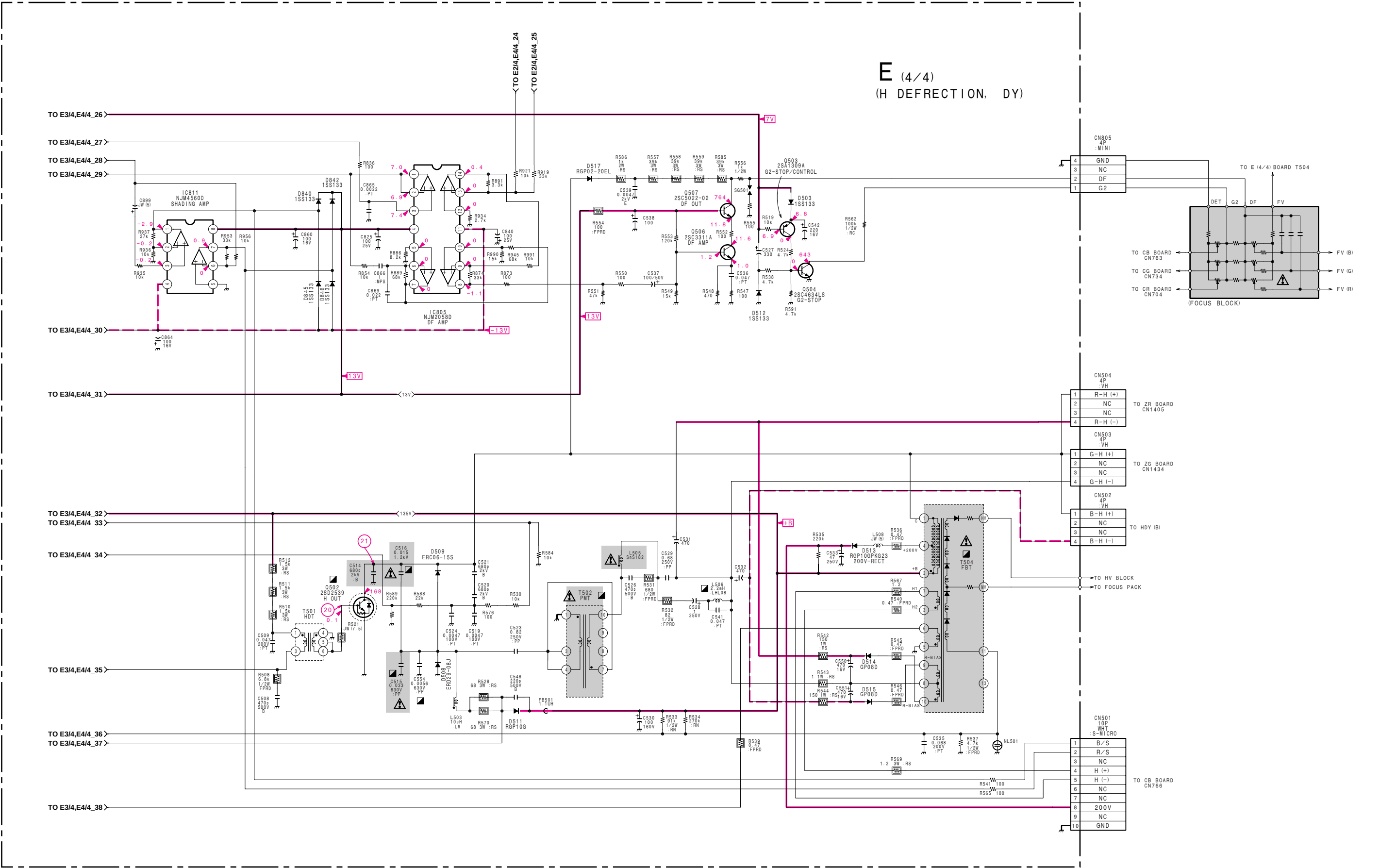
CN810 3P :MINI
GND 1
+B OUT 2
+B IN 3

CN505 2P :LARGE
R1 8.1K 820K

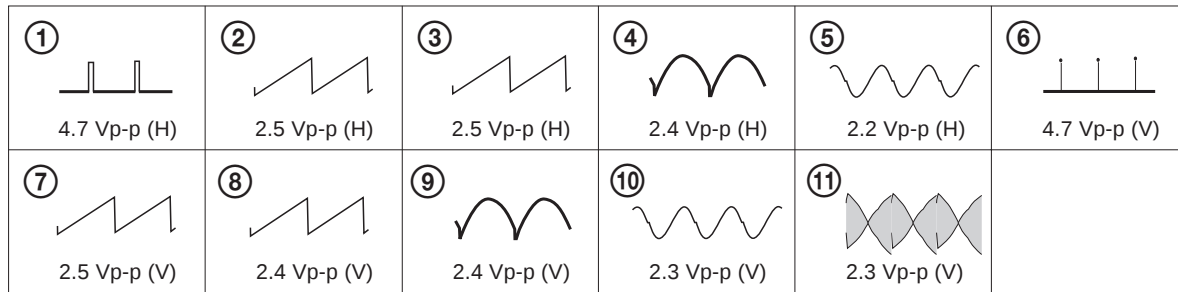
TO E1/4,E3/4_14
TO E1/4,E3/4_15
TO E1/4,E3/4_16
TO E1/4,E3/4_17
TO E1/4,E3/4_18
TO E1/4,E3/4_19
TO E1/4,E3/4_20
TO E2/4,E3/4_21
TO E2/4,E3/4_22
TO E2/4,E3/4_23
TO E3/4,E4/4_26
TO E3/4,E4/4_27
TO E3/4,E4/4_28
TO E3/4,E4/4_29
TO E3/4,E4/4_30
TO E3/4,E4/4_31
TO E3/4,E4/4_32
TO E3/4,E4/4_33
TO E3/4,E4/4_34
TO E3/4,E4/4_35
TO E3/4,E4/4_36
TO E3/4,E4/4_37
TO E3/4,E4/4_38

IC807 2SC3311A KEY OFFSET
IC808 DT144ESA SW
IC809 2SC3311A BUFF
IC810 CA0007AD SHADING CONT
IC811 2SC3311A BUFF
IC812 NJM79M05FA +5V REG
IC813 NJM79M05FA -5V REG
IC814 NJM78L12A-T3 +12V REG
IC815 NJM78L12A-T3 -12V REG
IC816 NJM78L12A-T3 +12V REG
IC817 NJM78L12A-T3 -12V REG
IC818 NJM78L12A-T3 +12V REG
IC819 NJM78L12A-T3 -12V REG
IC820 NJM78L12A-T3 +12V REG
IC821 NJM78L12A-T3 -12V REG
IC822 NJM78L12A-T3 +12V REG
IC823 NJM78L12A-T3 -12V REG
IC824 NJM78L12A-T3 +12V REG
IC825 NJM78L12A-T3 -12V REG
IC826 NJM78L12A-T3 +12V REG
IC827 NJM78L12A-T3 -12V REG
IC828 NJM78L12A-T3 +12V REG
IC829 NJM78L12A-T3 -12V REG
IC830 NJM78L12A-T3 +12V REG
IC831 NJM78L12A-T3 -12V REG
IC832 NJM78L12A-T3 +12V REG
IC833 NJM78L12A-T3 -12V REG
IC834 NJM78L12A-T3 +12V REG
IC835 NJM78L12A-T3 -12V REG
IC836 NJM78L12A-T3 +12V REG
IC837 NJM78L12A-T3 -12V REG
IC838 NJM78L12A-T3 +12V REG
IC839 NJM78L12A-T3 -12V REG
IC840 NJM78L12A-T3 +12V REG
IC841 NJM78L12A-T3 -12V REG
IC842 NJM78L12A-T3 +12V REG
IC843 NJM78L12A-T3 -12V REG
IC844 NJM78L12A-T3 +12V REG
IC845 NJM78L12A-T3 -12V REG
IC846 NJM78L12A-T3 +12V REG
IC847 NJM78L12A-T3 -12V REG
IC848 NJM78L12A-T3 +12V REG
IC849 NJM78L12A-T3 -12V REG
IC850 NJM78L12A-T3 +12V REG
IC851 NJM78L12A-T3 -12V REG
IC852 NJM78L12A-T3 +12V REG
IC853 NJM78L12A-T3 -12V REG
IC854 NJM78L12A-T3 +12V REG
IC855 NJM78L12A-T3 -12V REG
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IC862 NJM78L12A-T3 +12V REG
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IC864 NJM78L12A-T3 +12V REG
IC865 NJM78L12A-T3 -12V REG
IC866 NJM78L12A-T3 +12V REG
IC867 NJM78L12A-T3 -12V REG
IC868 NJM78L12A-T3 +12V REG
IC869 NJM78L12A-T3 -12V REG
IC870 NJM78L12A-T3 +12V REG
IC871 NJM78L12A-T3 -12V REG
IC872 NJM78L12A-T3 +12V REG
IC873 NJM78L12A-T3 -12V REG
IC874 NJM78L12A-T3 +12V REG
IC875 NJM78L12A-T3 -12V REG
IC876 NJM78L12A-T3 +12V REG
IC877 NJM78L12A-T3 -12V REG
IC878 NJM78L12A-T3 +12V REG
IC879 NJM78L12A-T3 -12V REG
IC880 NJM78L12A-T3 +12V REG
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IC920 NJM78L12A-T3 +12V REG
IC921 NJM78L12A-T3 -12V REG
IC922 NJM78L12A-T3 +12V REG
IC923 NJM78L12A-T3 -12V REG
IC924 NJM78L12A-T3 +12V REG
IC925 NJM78L12A-T3 -12V REG
IC926 NJM78L12A-T3 +12V REG
IC927 NJM78L12A-T3 -12V REG
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IC929 NJM78L12A-T3 -12V REG
IC930 NJM78L12A-T3 +12V REG
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IC941 NJM78L12A-T3 -12V REG
IC942 NJM78L12A-T3 +12V REG
IC943 NJM78L12A-T3 -12V REG
IC944 NJM78L12A-T3 +12V REG
IC945 NJM78L12A-T3 -12V REG
IC946 NJM78L12A-T3 +12V REG
IC947 NJM78L12A-T3 -12V REG

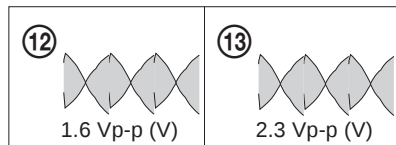
(17) Schematic Diagram of E (4/4) Board



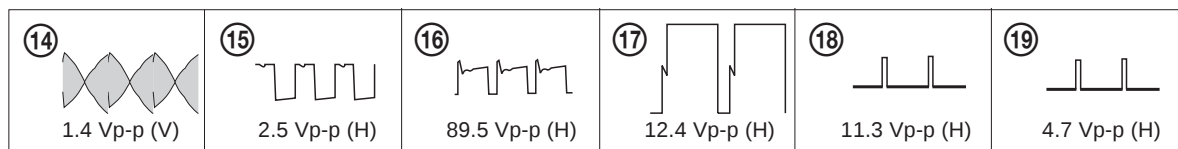
• E (1/4) BOARD WAVEFORMS



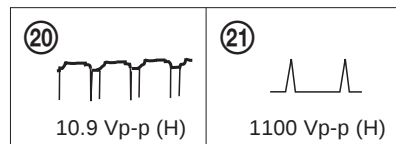
• E (2/4) BOARD WAVEFORMS



• E (3/4) BOARD WAVEFORMS

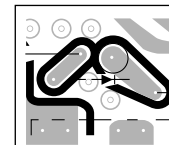


• E (4/4) BOARD WAVEFORMS



E H DEFLECTION,
HV, DY DRIVE

— E BOARD —



NOTE:

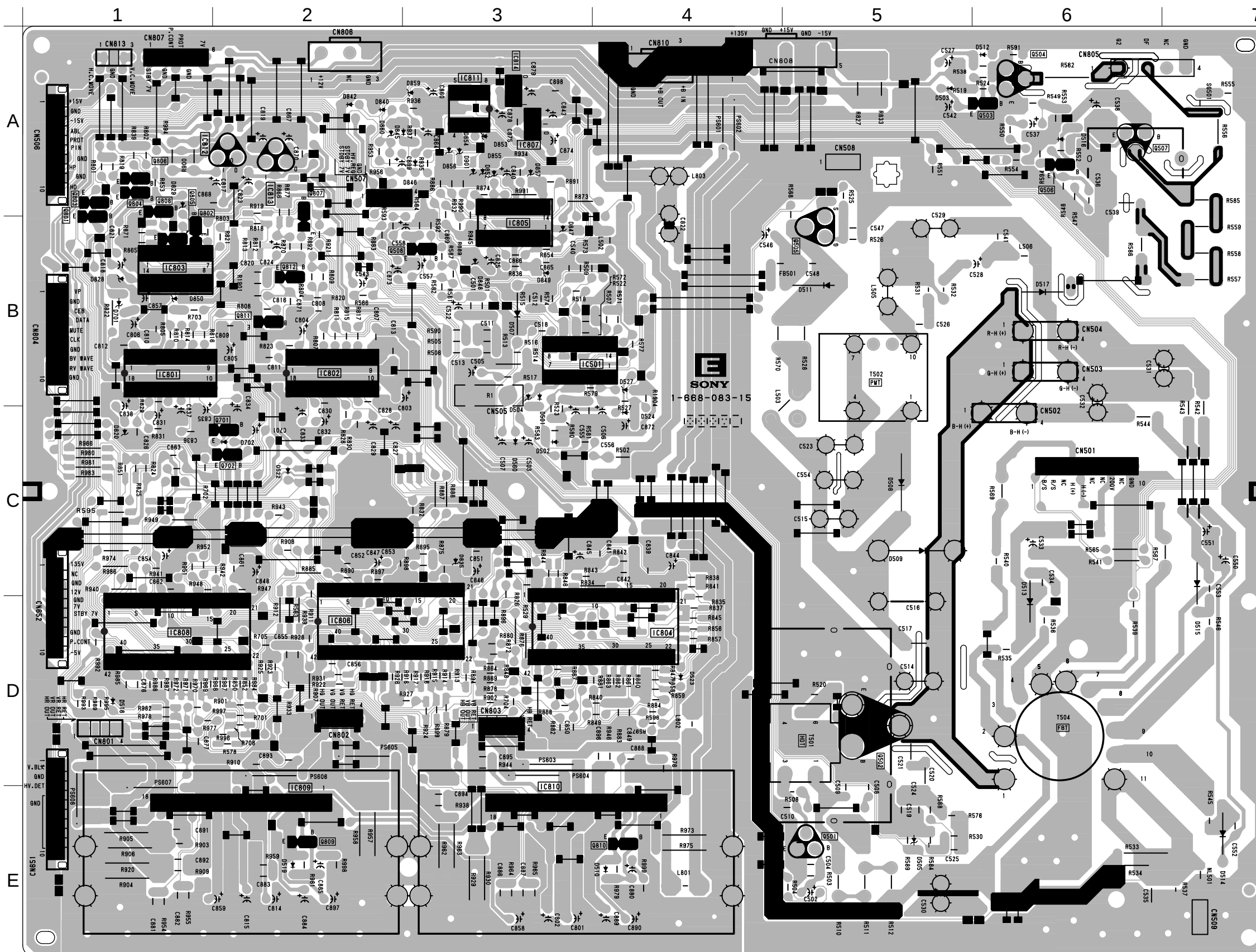
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

KP-41PX1/41PX1K/41PX1R

RM-892 RM-892 RM-862

• E BOARD SEMICONDUCTOR
LOCATION

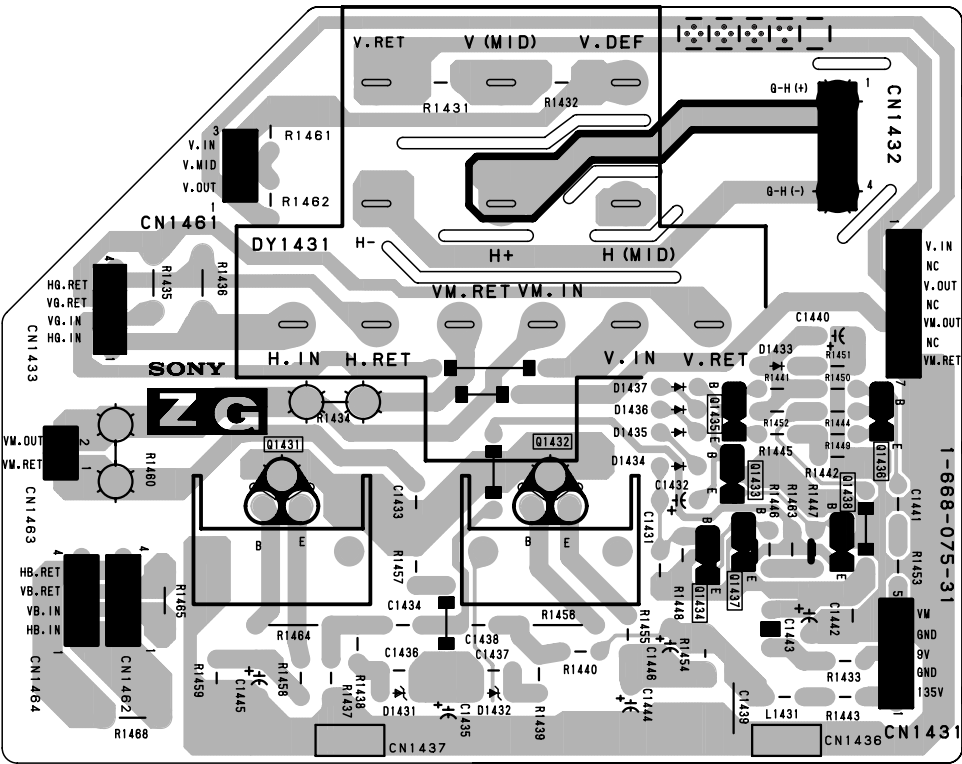
IC		Q808 A-1	
IC501 B-3		Q809 E-2	
IC801 B-1		Q810 E-4	
IC802 B-2		Q811 B-2	
IC803 B-1		Q812 B-2	
IC804 D-4		DIODE	
IC805 B-3		D501 B-3	
IC806 D-2		D502 C-3	
IC807 A-3		D503 A-5	
IC808 D-1		D504 B-3	
IC809 E-2		D507 B-3	
IC810 E-3		D508 C-5	
IC811 A-3		D509 C-5	
IC812 A-2		D510 E-4	
IC813 A-2		D511 B-5	
IC814 A-3		D512 A-6	
		D513 C-6	
		D514 E-7	
		D515 C-7	
		D517 B-6	
		D519 E-2	
		D522 C-2	
		D523 D-4	
		D524 C-4	
		D527 B-4	
		D560 C-3	
		D701 B-1	
		D702 C-2	
		D820 C-1	
		D829 A-1	
		D835 C-3	
		D840 A-2	
		D842 A-2	
		D845 A-2	
		D846 A-3	
TRANSISTOR			
Q501 E-5			
Q502 D-5			
Q503 A-6			
Q504 A-6			
Q505 B-5			
Q506 A-6			
Q507 A-6			
Q701 C-1			
Q702 C-1			
Q801 A-1			
Q802 B-1			
Q803 A-1			
Q804 A-1			
Q805 B-1			
Q806 A-1			
Q807 A-2			



ZG [VM, GREEN/BLUE DY]

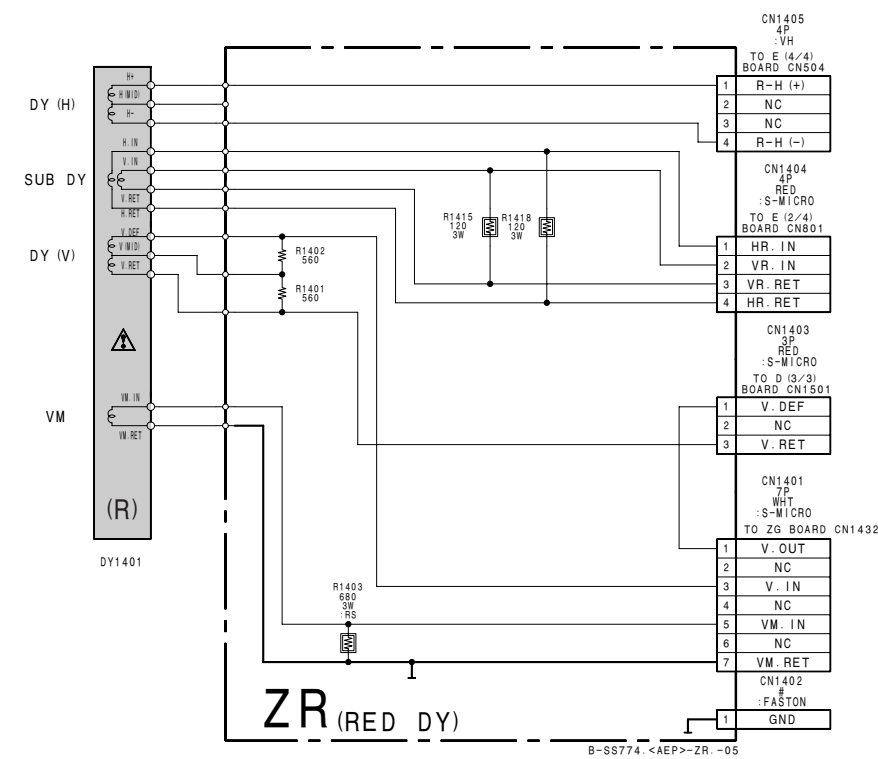
(18) Schematic Diagram of ZG Board

— ZG BOARD —



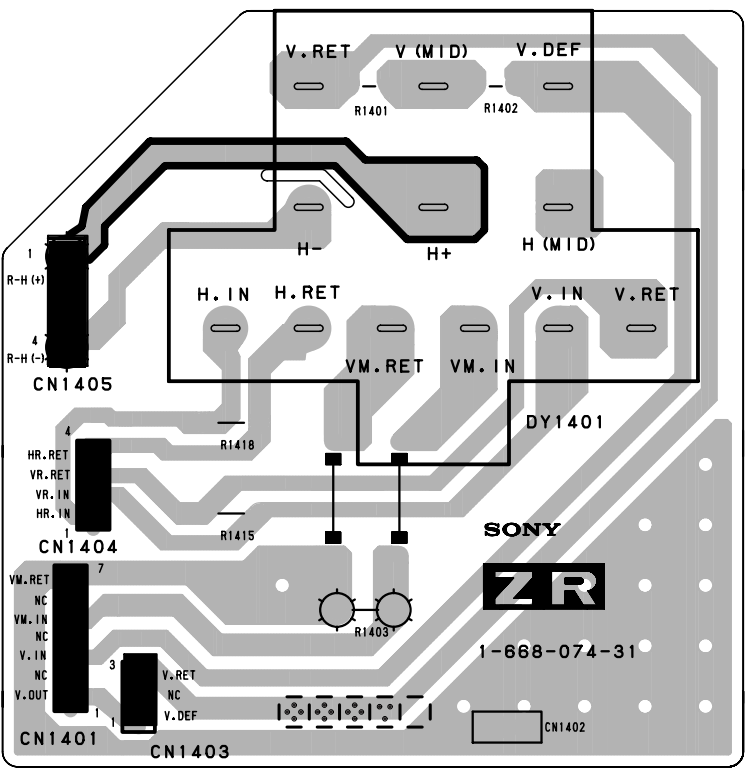
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(19) Schematic Diagram of ZR Board



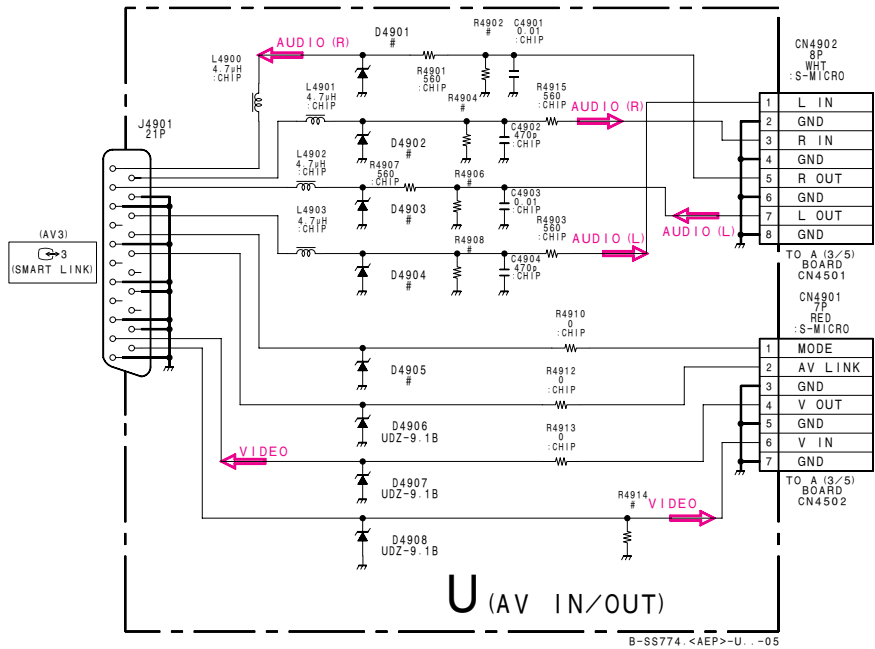
ZR [RED DY]

— ZR BOARD —



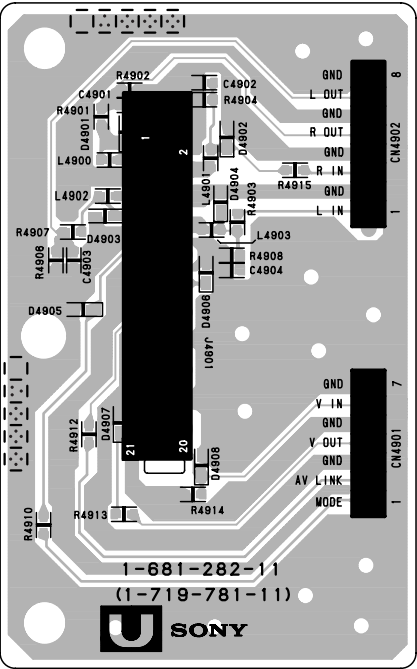
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(23) Schematic Diagram of U Board (41PX1/41PX1K)



U [AV IN/OUT]

— U BOARD — (41PX1/41PX1K)



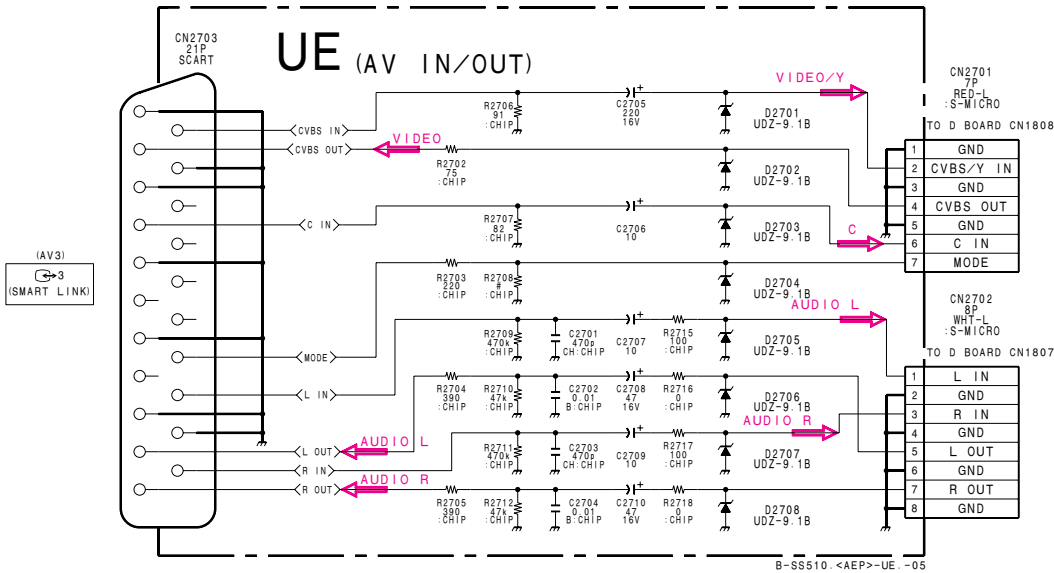
U BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

Ref.	*
D4906 – D4908	③

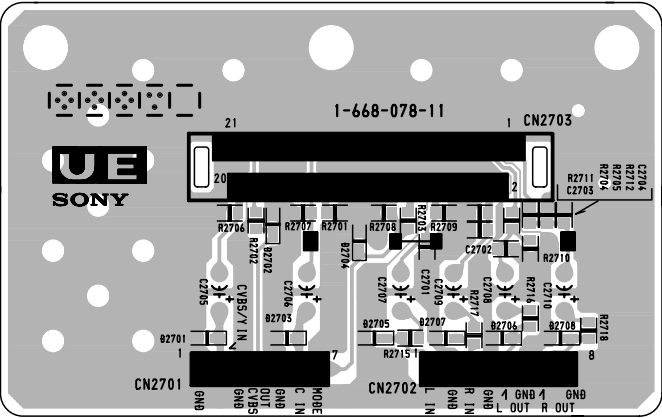
*: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 54)



(24) Schematic Diagram of UE Board (41PX1R)



— UE BOARD — (41PX1R)

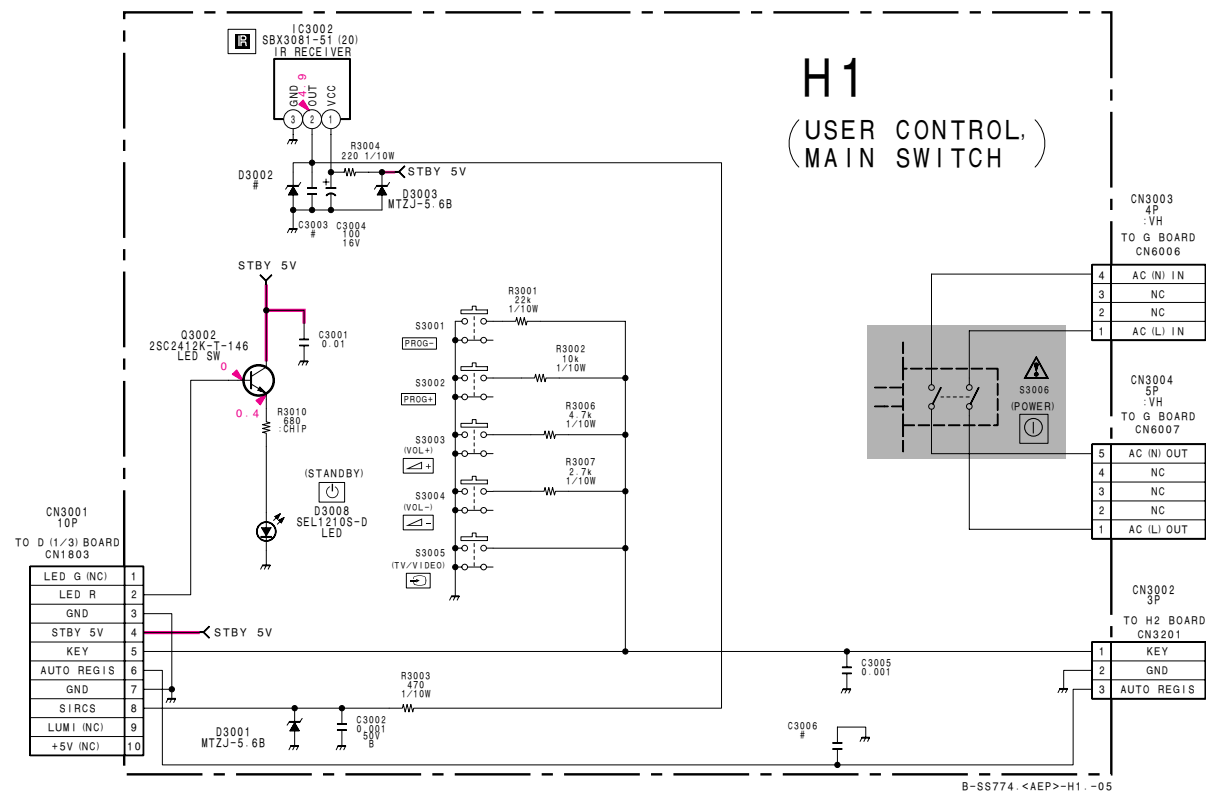


UE BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

Ref.	*
D2701 – D2708	③

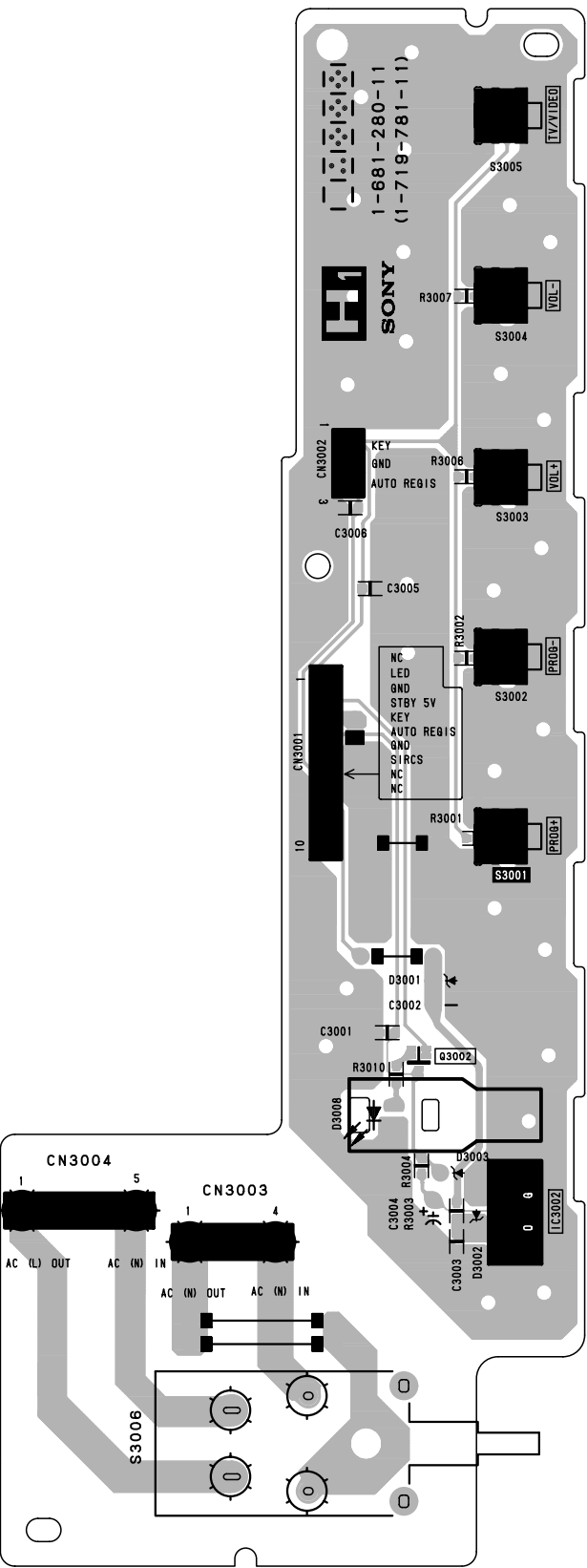
*: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 54)

(25) Schematic Diagram of H1 Board



H1 [USER CONTROL,
MAIN SWITCH]

— H1 BOARD —

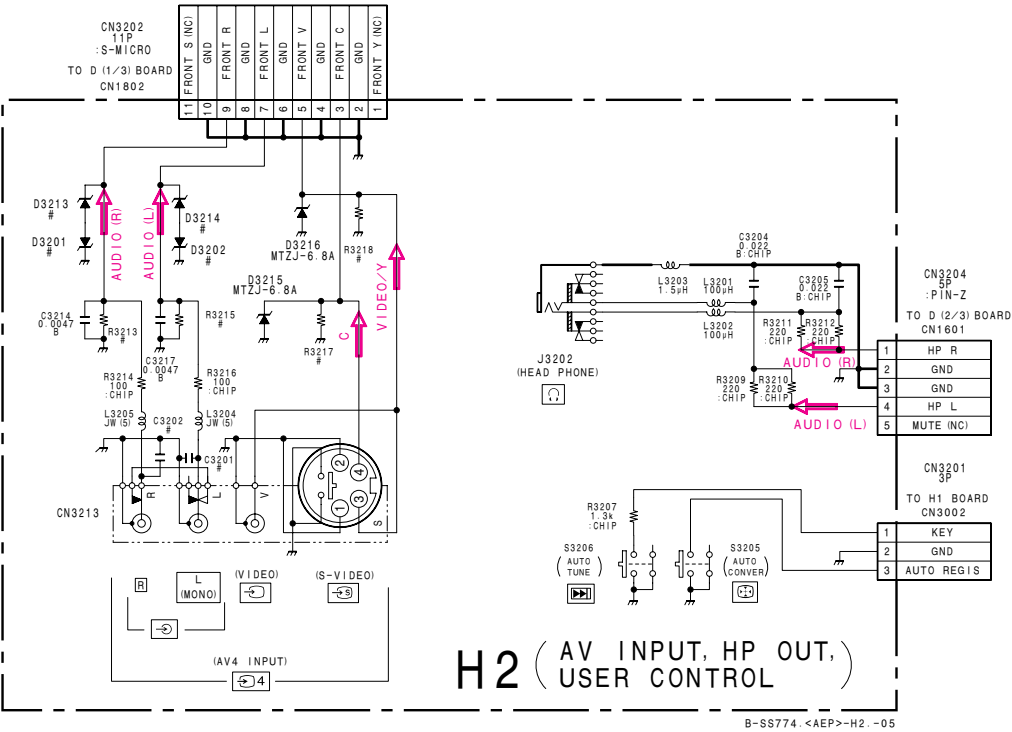


H1 BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

Ref.	*
Q3002	①

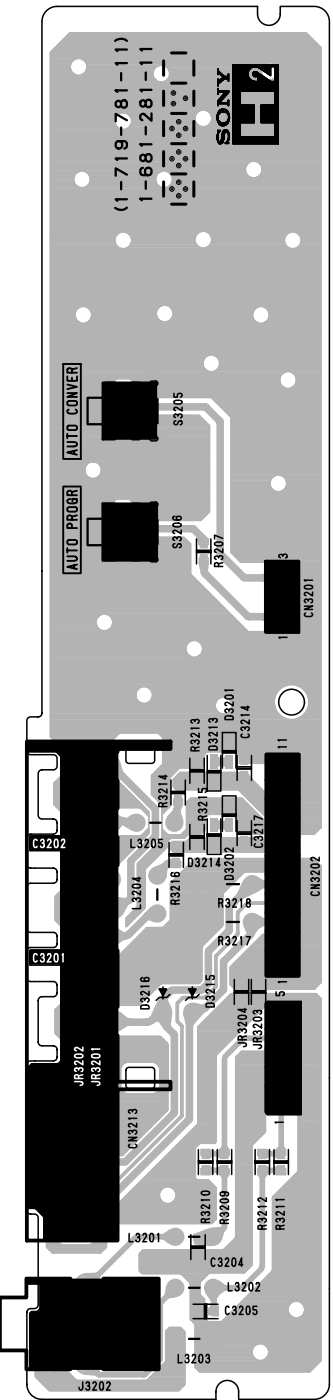
※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 54)

(26) Schematic Diagram of H2 Board

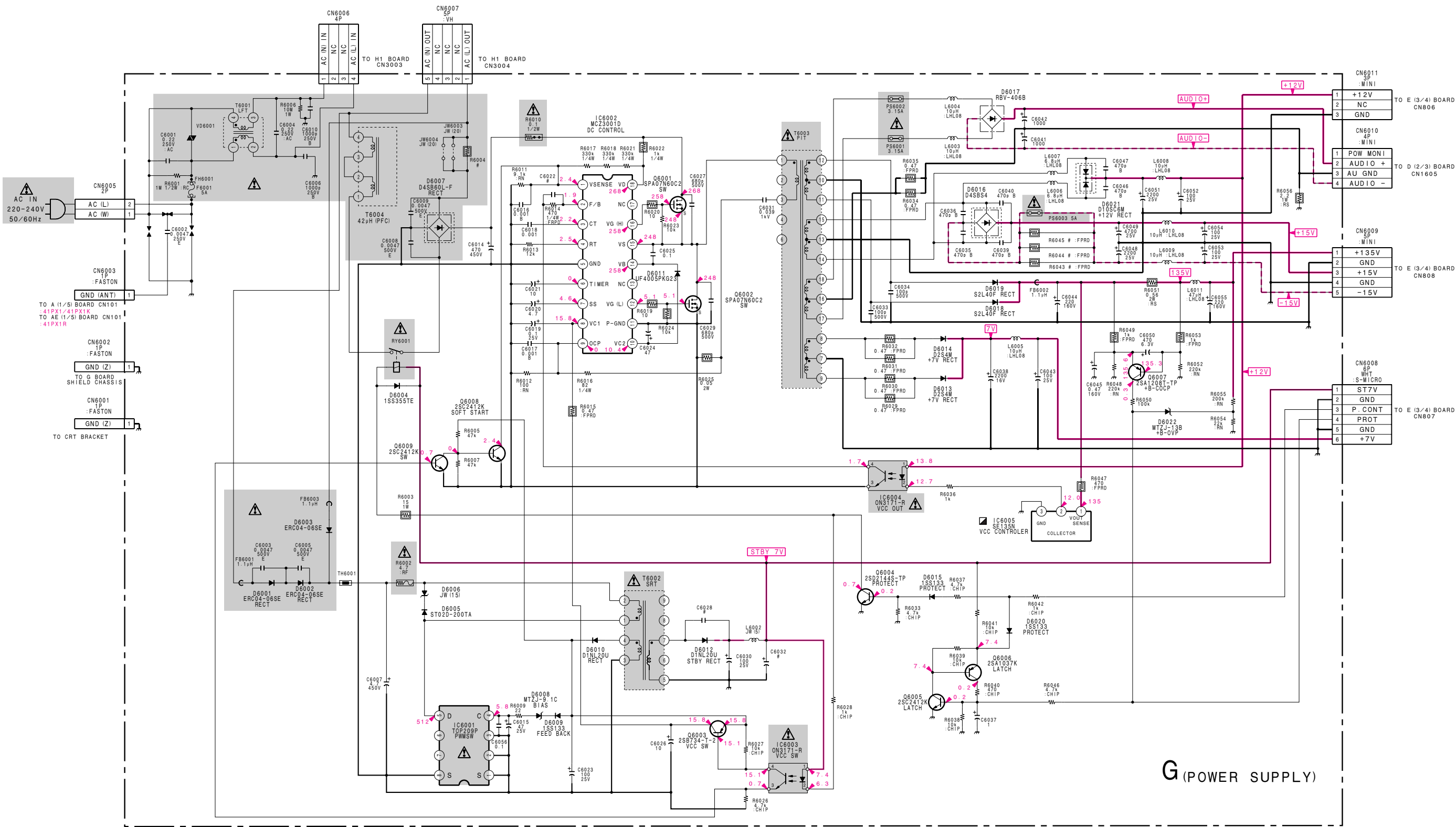


H2 [AV INPUT, HP OUT,
USER CONTROL]

— H2 BOARD —



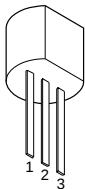
(27) Schematic Diagram of G Board



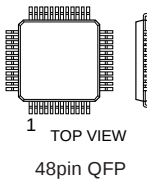
B-SS774 <AEP>-G. -05

7-5. SEMICONDUCTORS

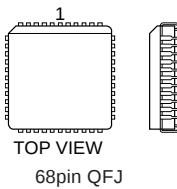
AN77L12-TA
NJM78L12A-T3
NJM79L12A
NJM79L12A-T3



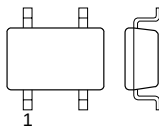
CXA2089Q-T6
CXD2064Q-T6



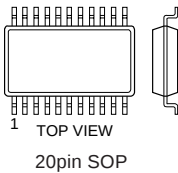
MSP3410D-C5-PS-B4
MSP3411G-PS-B8
SDA5273-3CP-C55-22-
GEG



PST593C-MMP-4P



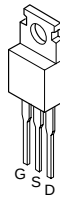
TDA8395T/N3



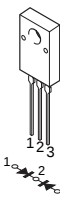
2SA1091-O
2SA1091O-TPE2
2SA1208
2SA1208T-TP



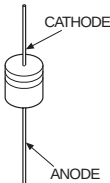
2SK2251-01-F19



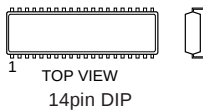
D10SC6M-4012



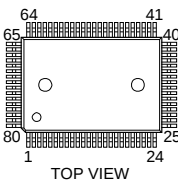
MTZJ-13
MTZJ-13B
MTZJ-7.5B
MTZJ-T-77-13
MTZJ-T-77-13B
MTZJ-T-77-22
MTZJ-T-77-3.6
MTZJ-T-77-5.1
MTZJ-T-77-5.1B
MTZJ-T-77-5.6
MTZJ-T-77-6.8B
MTZJ-T-77-7.5B
MTZJ-T-77-9.1
RD3.0ES-T1B2
RD3.0ESB2
RD3.6ESB1
RD4.7ES-T1B
RD4.7ESB2
RD5.1ESB1
RD5.1ESB2
RD5.6ESB2
RD6.8ES-B2
RD9.1ES-B3
1SS133T-77



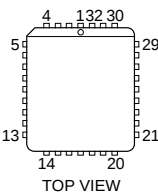
CA0007AD
NJM2058D
μPC339C



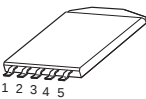
CXD2044Q-TL



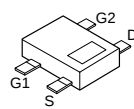
M27C2001-12C1-PZ01
M27C2001-12C1-RR403



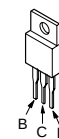
PST9143NL



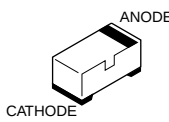
BSS83



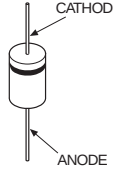
2SA1837(LBS2SONY)
2SC4634LS-CB11
2SC4793(LBS2SONY)
2SC5022-02



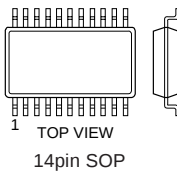
BAS216



D2S4M



CA0007AM
MC14066BF
MC14066BFEL



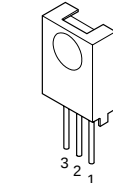
CXP86213-003S



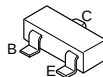
NJM4560D
RC4560D
TDA2822M
TDA7264
TOP209P



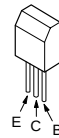
SBX3081-51(20)
SBX3081-51(30)



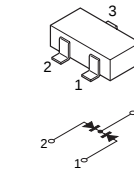
DTA144EKA-T146
DTC143TKA-T146
DTC144EKA
DTC144EKA-T146
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SC1623-L5L6
2SC2412K-T-146-QR



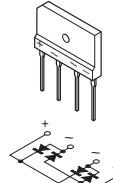
2SB734-34
2SB734-T-2



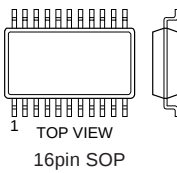
DAN202K
DAN202K-T-146



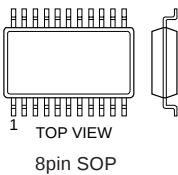
D4SB60L-F
D4SBS4
D4SBS4-F
RBA-406B
RBV-406B



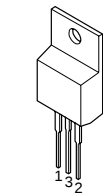
CXA1315M
CXA1315M-T4
TDA4665T/V5-118



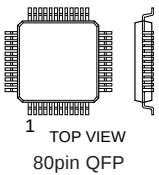
LM358D
LM358DR
M24C08-MN6T(A)
M24C32-MN6T
NJM2240M
NJM2240M (TE2)



NJM79M05FA



SDA30C263-GEG



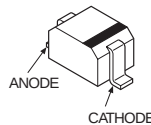
DTC144ESA-TP
2SD2144S-TP-UVW
2SD2144S-UVW



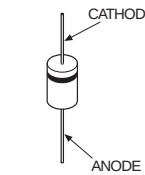
2SC2611-15



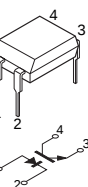
DTZ33B
MA8330-TX
UDZSTE-175.6B
UDZSTE-176.8B
UDZSTE-179.1B
1SS355TE-17



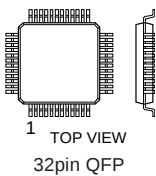
ERC04-06SE
ERC06-15S



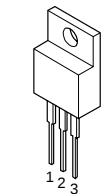
ON3171-R



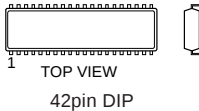
CXA2040AQ-T4



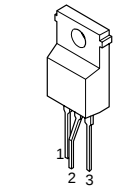
L7812CV
LM2940CT-5.0
NJM78M05FA
PQ09RF2



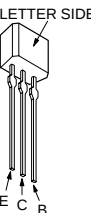
PM0011AS



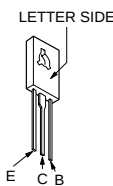
SE135N
SE135N-LF12



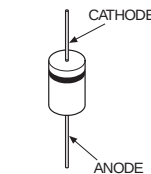
DTC144ESA
2SA1175-HFE
2SA1309A-QRSTA
2SC3311A-QRSTA



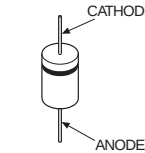
2SC2688-LK



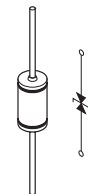
D1NL20U-TR2
EL1Z
EL1Z-V1
GP08D
GP08DPKG23
MTZJ-T-77-5.6B
MTZJ-T-77-9.1A
MTZJ-T-77-9.1C
RGP02-20EL-6394
RGP10GPKG23
S2L40F
ST02D-200TA
UF4005PKG23



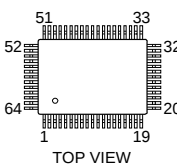
ERD29-08J



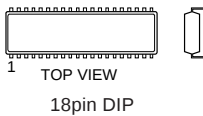
RD9.1EW
RD9.1EW-T1



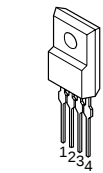
CXA2076Q-TL



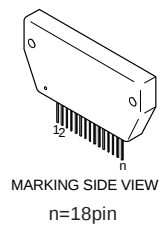
MCZ3001D
PA0053B



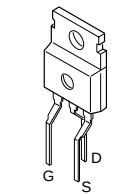
PQ05RF11



STK392-150



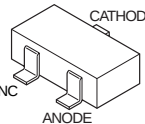
SPA07N60C2



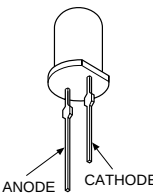
2SD2539(LBSONY-1)



MA3030-H(TX)
MA3240-TX



SEL1210S-D



SECTION 8 EXPLODED VIEWS

NOTE:

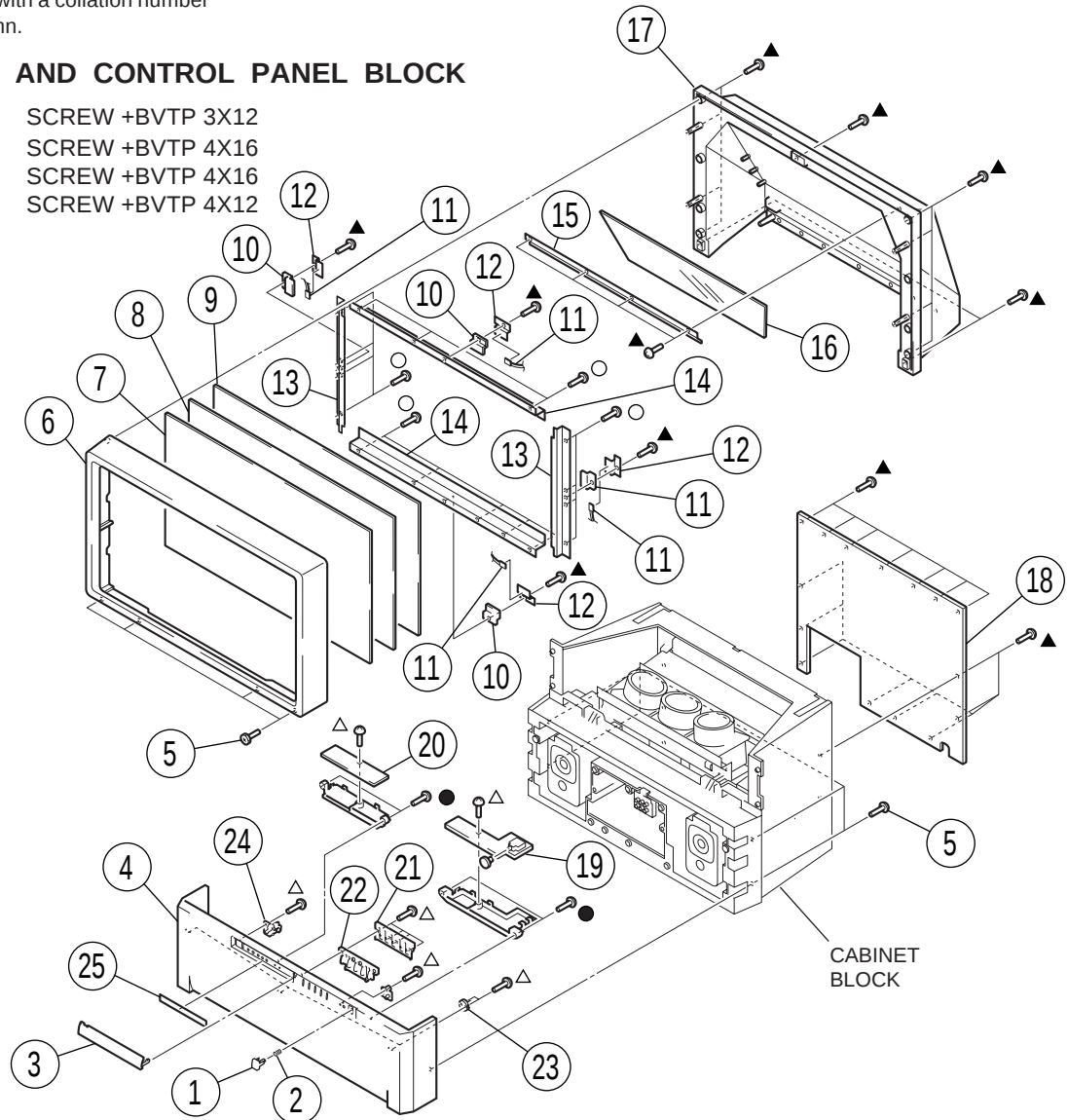
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

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

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

8-1. SCREEN AND CONTROL PANEL BLOCK

- Δ : 7-685-648-71 SCREW +BVTP 3X12
 $\bullet$: 7-685-663-71 SCREW +BVTP 4X16
 $\blacktriangle$: 7-685-663-79 SCREW +BVTP 4X16
 $\circ$: 7-685-661-79 SCREW +BVTP 4X12

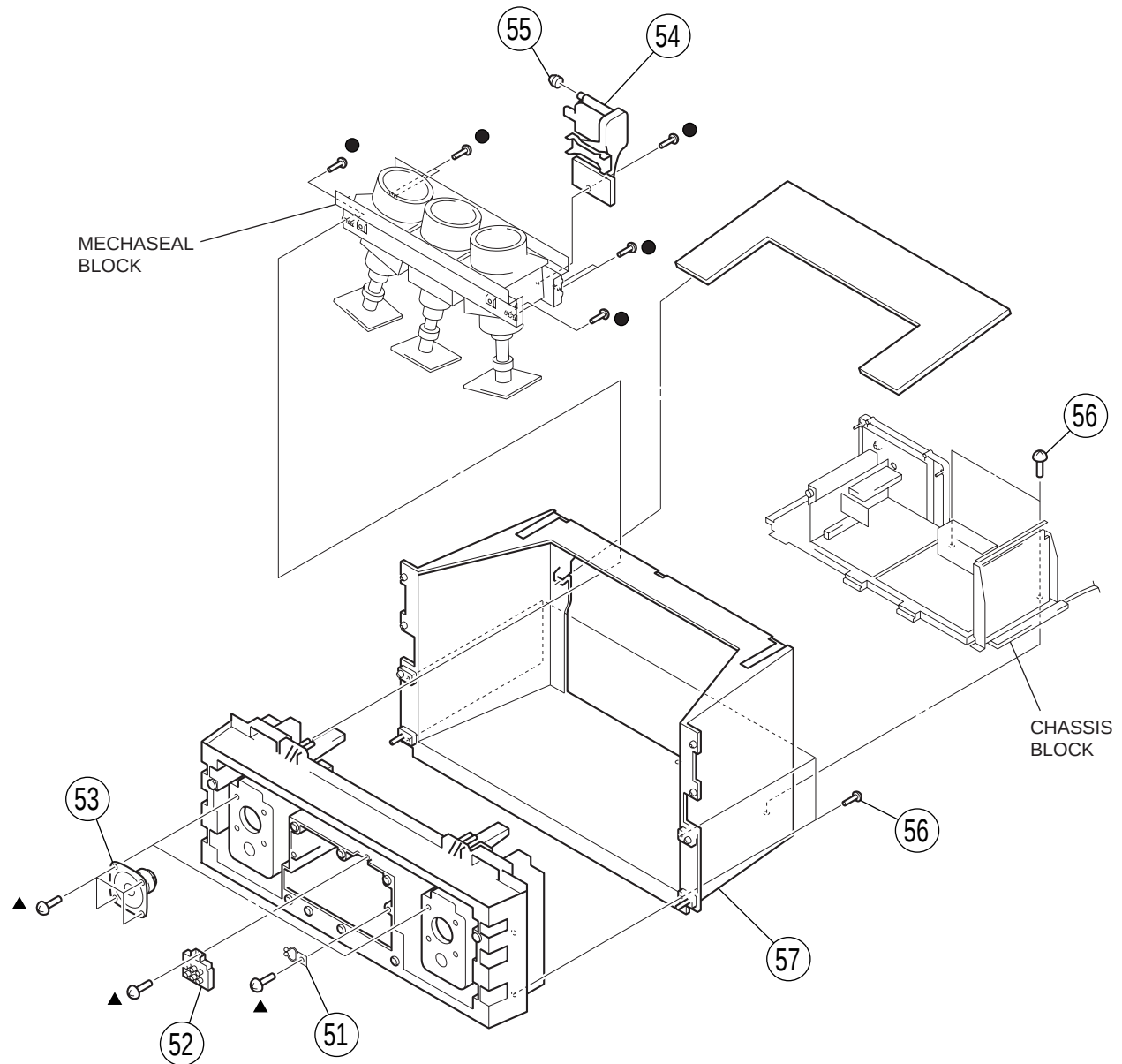


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	4-206-033-01	BUTTON POWER		14	*4-063-160-01	HOLDER (H), SCREEN	
2	4-202-964-01	SPRING		15	*4-066-129-01	HOLDER, MIRROR	
3	4-206-036-01	DOOR, CONTROL		16	4-206-414-01	MIRROR (41)	
4	X-4200-708-1	GRILLE ASSY, SPEAKER		17	*4-062-540-11	COVER, MIRROR	
5	4-378-522-31	SCREW, TAPPING, HEXAGON		18	*4-063-177-01	BOARD (41), REAR	
6	X-4200-706-1	BEZNET ASSY		19	*A-1646-237-A	H1 BOARD, COMPLETE	
7	4-063-365-11	SCREEN, CONTRAST		20	*A-1646-238-A	H2 BOARD, COMPLETE	
8	4-070-236-11	PLATE (L), DIFFUSION		21	4-206-034-01	BUTTON, MULTI	
9	4-070-358-11	PLATE (F), DIFFUSION		22	4-206-035-01	COVER, MULTI BUTTON	
10	*4-205-155-01	COVER, SENSOR		23	4-054-709-01	STRIKE	
11	1-528-864-12	BATTERY, SOLAR		24	4-076-673-03	DAMPER, DOOR	
12	*4-066-132-01	HOLDER, SENSOR		25	4-206-030-01	LABEL CONTROL	
13	*4-066-126-01	HOLDER (V), SCREEN					

8-2. CABINET BLOCK

- : 7-685-663-71 SCREW +BVTP 4X16
- ▲ : 7-685-663-79 SCREW +BVTP 4X16

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

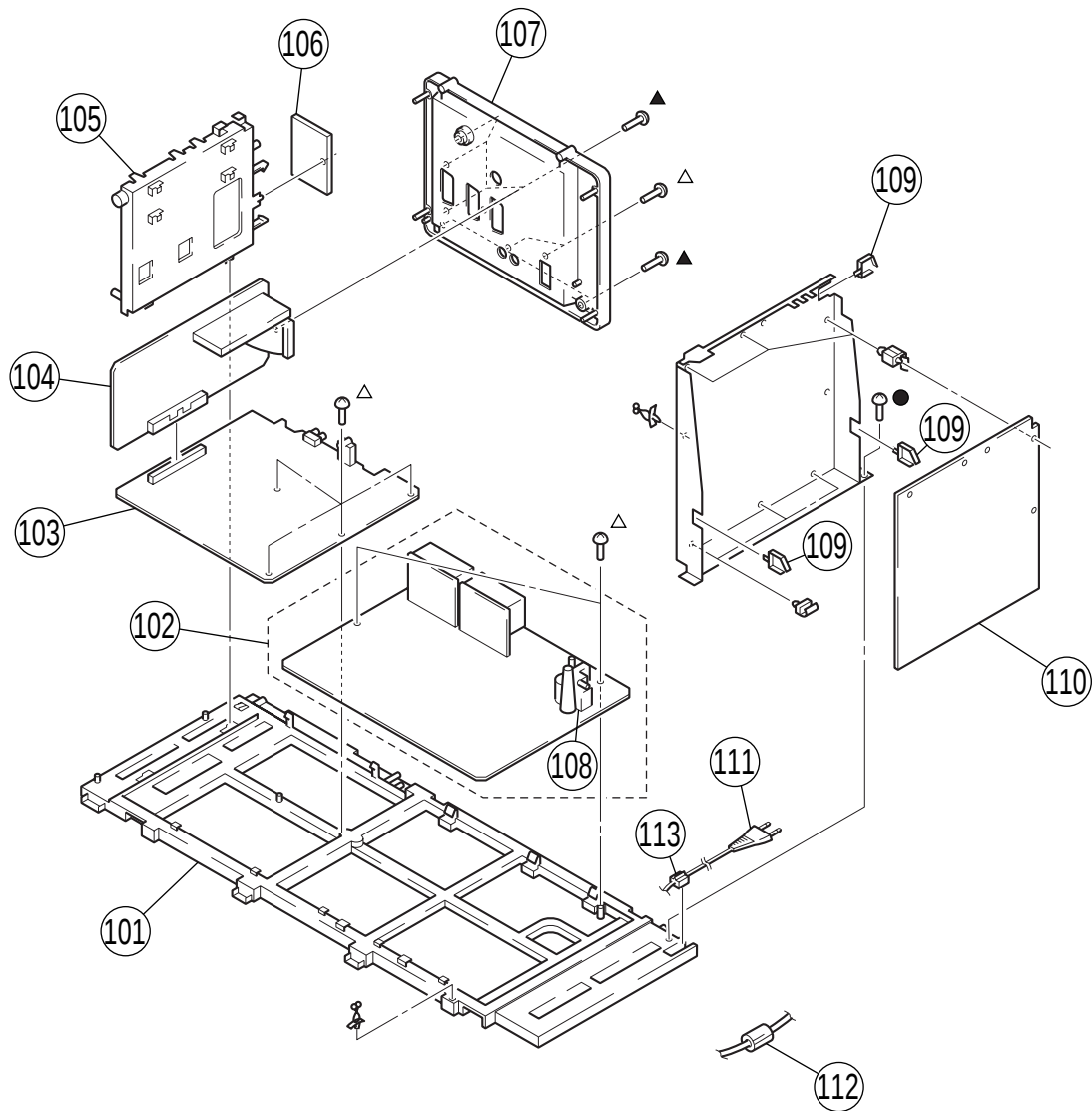


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	*4-063-176-01	HOLDER, HVR		54	▲ 8-598-955-13	BLOCK ASSY, HIGH-VOLTAGE	
52	▲ 1-223-925-71	RESISTOR ASSY (HIGH-VOLTAGE)		55	4-373-137-02	CAP (Z), RUBBER	
		(FOCUS PACK)		56	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
53	1-505-426-11	SPEAKER (10.6 CM)		57	4-062-539-11	CABINET (REAR)	

8-3. MAIN BRACKET BLOCK

- △ : 7-685-648-71 SCREW +BVTP 3X12
 ● : 7-685-663-71 SCREW +BVTP 4X16
 ▲ : 7-685-663-79 SCREW +BVTP 4X16

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

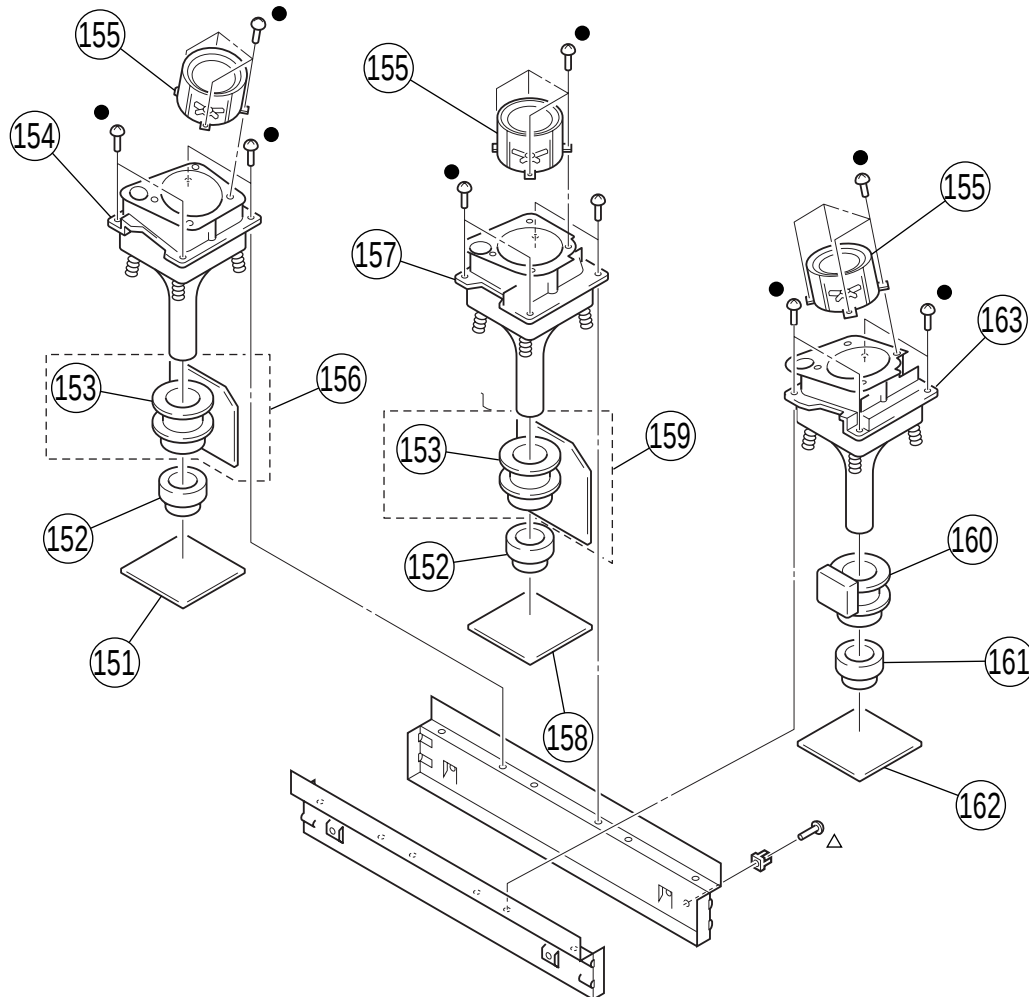


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	*4-062-537-03	BRACKET, MAIN		107	4-063-178-01	BOARD (EURO), TERMINAL	
102	*A-1642-288-A	E BOARD, COMPLETE	108	108	△ 1-453-331-21	TRANSFORMER ASSY, FLYBACK (NX-4010//M3P4)	
103	*A-1346-678-A	D BOARD, COMPLETE (41PX1R)		109	*4-316-015-02	HOLDER, WIRE	
103	*A-1642-284-A	D BOARD, COMPLETE (41PX1/41PX1K)		110	*A-1637-023-A	G BOARD, COMPLETE	
104	*A-1632-921-A	A BOARD, COMPLETE (41PX1/41PX1K)		111	△ 1-765-286-11	CORD, POWER	
104	*A-1632-959-A	AE BOARD, COMPLETE (41PX1R)		112	1-543-653-21	CORE ASSY, BEAD (DIVISION TYPE)	
105	*4-062-536-02	BRACKET (A)		113	4-022-115-00	HOLDER, AC CORD	
106	*A-1648-033-A	U BOARD, COMPLETE (41PX1/41PX1K)					
106	*A-1648-034-A	UE BOARD, COMPLETE (41PX1R)					

8-4. MECHASEAL BLOCK

- △ : 7-685-648-71 SCREW +BVTP 3X12
 ● : 7-685-663-71 SCREW +BVTP 4X16

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



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
151	* A-1638-152-A	CR BOARD, COMPLETE		158	* A-1638-151-A	CG BOARD, COMPLETE	
152	△ 1-452-790-41	NECK ASSY		159	* A-1652-078-A	ZG BOARD, COMPLETE	153
153	△ 1-451-517-31	DEFLECTION YOKE		160	△ 1-451-517-21	DEFLECTION YOKE	
154	△ A-1501-213-A	MECHASEAL ASSY (R), SLANT		161	△ 1-452-790-31	NECK ASSY	
155	4-056-258-11	LENS (DELTA 78)		162	* A-1638-150-A	CB BOARD, COMPLETE	
156	* A-1652-079-A	ZR BOARD, COMPLETE	153	163	△ A-1501-215-A	MECHASEAL ASSY (B), SLANT	
157	△ A-1501-214-A	MECHASEAL ASSY (G), SLANT					

SECTION 9

RM-892

RM-892

RM-862

ELECTRICAL PARTS LIST



NOTE:

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

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

The components identified by Δ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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

RESISTORS

- All resistors are in ohms
- F : nonflammable

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

• CAPACITORS
PF : μ F

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	* A-1632-921-AA BOARD, COMPLETE (41PX1/41PX1K)			C121	1-162-925-11	CERAMIC CHIP 68pF	5% 50V
	*****			C122	1-115-412-11	CERAMIC CHIP 680pF	5% 25V
	<CAPACITOR>			C123	1-162-925-11	CERAMIC CHIP 68pF	5% 50V
C1	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C124	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C2	1-104-660-91	ELECT 47 μ F	20% 16V	C125	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C3	1-162-921-11	CERAMIC CHIP 33pF	5% 50V	C126	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C4	1-162-921-11	CERAMIC CHIP 33pF	5% 50V	C127	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C8	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C128	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C15	1-164-315-11	CERAMIC CHIP 470pF	5% 50V	C129	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C18	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C130	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C19	1-162-968-11	CERAMIC CHIP 0.0047 μ F	10% 50V	C131	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C20	1-162-970-11	CERAMIC CHIP 0.01 μ F	10% 25V	C132	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C21	1-162-970-11	CERAMIC CHIP 0.01 μ F	10% 25V	C133	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C22	1-162-927-11	CERAMIC CHIP 100pF	5% 50V	C134	1-162-927-11	CERAMIC CHIP 100pF	5% 50V
C24	1-115-416-11	CERAMIC CHIP 0.001 μ F	5% 25V	C136	1-126-964-11	ELECT 10 μ F	20% 50V
C25	1-104-660-91	ELECT 47 μ F	20% 16V	C137	1-104-660-91	ELECT 47 μ F	20% 16V
C26	1-104-660-91	ELECT 47 μ F	20% 16V	C138	1-126-964-11	ELECT 10 μ F	20% 50V
C28	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C139	1-162-970-11	CERAMIC CHIP 0.01 μ F	10% 25V
C29	1-162-964-11	CERAMIC CHIP 0.001 μ F	10% 50V	C140	1-126-964-11	ELECT 10 μ F	20% 50V
C45	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C141	1-126-934-11	ELECT 220 μ F	20% 16V
C90	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C142	1-162-926-11	CERAMIC CHIP 82pF	5% 50V
C101	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C143	1-162-927-11	CERAMIC CHIP 100pF	5% 50V
C102	1-126-934-11	ELECT 220 μ F	20% 16V	C144	1-164-217-11	CERAMIC CHIP 150pF	5% 50V
C103	1-126-965-91	ELECT 22 μ F	20% 50V	C145	1-162-923-11	CERAMIC CHIP 47pF	5% 50V
C104	1-162-927-11	CERAMIC CHIP 100pF	5% 50V	C146	1-164-360-11	CERAMIC CHIP 0.1 μ F	10% 16V
C105	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C147	1-162-968-11	CERAMIC CHIP 0.0047 μ F	10% 50V
C106	1-126-933-11	ELECT 100 μ F	20% 16V	C148	1-162-970-11	CERAMIC CHIP 0.01 μ F	10% 25V
C107	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C201	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C108	1-126-933-11	ELECT 100 μ F	20% 16V	C202	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C109	1-164-227-11	CERAMIC CHIP 0.022 μ F	10% 25V	C203	1-104-661-91	ELECT 330 μ F	20% 16V
C110	1-104-660-91	ELECT 47 μ F	20% 16V	C204	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C111	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C205	1-126-965-91	ELECT 22 μ F	20% 50V
C112	1-115-416-11	CERAMIC CHIP 0.001 μ F	5% 25V	C207	1-126-964-11	ELECT 10 μ F	20% 50V
C113	1-104-660-91	ELECT 47 μ F	20% 16V	C208	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
C114	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C209	1-216-864-11	SHORT 0	
C115	1-162-970-11	CERAMIC CHIP 0.01 μ F	10% 25V	C210	1-162-927-11	CERAMIC CHIP 100pF	5% 50V
C116	1-127-715-91	CERAMIC CHIP 0.22 μ F	10% 16V	C211	1-126-965-91	ELECT 22 μ F	20% 50V
C117	1-162-970-11	CERAMIC CHIP 0.01 μ F	10% 25V	C212	1-164-360-11	CERAMIC CHIP 0.1 μ F	10% 16V
C118	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C213	1-162-970-11	CERAMIC CHIP 0.01 μ F	10% 25V
C119	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V	C214	1-164-360-11	CERAMIC CHIP 0.1 μ F	10% 16V
C120	1-162-927-11	CERAMIC CHIP 100pF	5% 50V	C215	1-162-970-11	CERAMIC CHIP 0.01 μ F	10% 25V
				C216	1-104-660-91	ELECT 47 μ F	20% 16V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C217	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C279	1-126-965-91	ELECT	22μF 20% 50V
C218	1-104-660-91	ELECT	47μF 20% 16V	C280	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C219	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C281	1-126-965-91	ELECT	22μF 20% 50V
C220	1-126-933-11	ELECT	100μF 20% 16V	C282	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C221	1-135-834-91	CERAMIC CHIP	2.2μF 6.3V	C283	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C222	1-164-360-11	CERAMIC CHIP	0.1μF 10% 16V	C284	1-126-935-11	ELECT	470μF 20% 10V
C223	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C300	1-162-927-11	CERAMIC CHIP	100pF 5% 50V
C224	1-164-360-11	CERAMIC CHIP	0.1μF 10% 16V	C301	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C225	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C302	1-115-416-11	CERAMIC CHIP	0.001μF 5% 25V
C226	1-104-660-91	ELECT	47μF 20% 16V	C303	1-115-416-11	CERAMIC CHIP	0.001μF 5% 25V
C227	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C304	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C228	1-104-660-91	ELECT	47μF 20% 16V	C305	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C229	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C306	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C230	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C307	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C232	1-216-864-11	SHORT	0	C308	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C236	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C309	1-115-156-11	CERAMIC CHIP	1μF 10V
C237	1-135-834-91	CERAMIC CHIP	2.2μF 6.3V	C310	1-115-156-11	CERAMIC CHIP	1μF 10V
C240	1-126-933-11	ELECT	100μF 20% 16V	C311	1-115-156-11	CERAMIC CHIP	1μF 10V
C241	1-104-660-91	ELECT	47μF 20% 16V	C312	1-135-834-91	CERAMIC CHIP	2.2μF 6.3V
C242	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C313	1-115-416-11	CERAMIC CHIP	0.001μF 5% 25V
C243	1-126-967-11	ELECT	47μF 20% 50V	C315	1-216-864-11	SHORT	0
C244	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C316	1-162-921-11	CERAMIC CHIP	33pF 5% 50V
C245	1-126-963-11	ELECT	4.7μF 20% 50V	C317	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C246	1-104-660-91	ELECT	47μF 20% 16V	C318	1-162-921-11	CERAMIC CHIP	33pF 5% 50V
C247	1-104-660-91	ELECT	47μF 20% 16V	C320	1-126-965-91	ELECT	22μF 20% 50V
C248	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C321	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C249	1-115-156-11	CERAMIC CHIP	1μF 10V	C322	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C250	1-115-156-11	CERAMIC CHIP	1μF 10V	C323	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C251	1-162-909-11	CERAMIC CHIP	4pF 0.25pF 50V	C324	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C252	1-162-909-11	CERAMIC CHIP	4pF 0.25pF 50V	C325	1-115-156-11	CERAMIC CHIP	1μF 10V
C253	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C326	1-115-416-11	CERAMIC CHIP	0.001μF 5% 25V
C254	1-162-923-11	CERAMIC CHIP	47pF 5% 50V	C327	1-137-374-11	MYLAR	0.047μF 5% 50V
C255	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	C328	1-126-965-91	ELECT	22μF 20% 50V
C256	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C330	1-130-777-00	MYLAR	0.1μF 5% 63V
C257	1-126-965-91	ELECT	22μF 20% 50V	C331	1-137-581-11	FILM	0.1μF 5% 100V
C258	1-126-964-11	ELECT	10μF 20% 50V	C332	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C259	1-113-619-11	CERAMIC CHIP	0.47μF 10V	C333	1-126-933-11	ELECT	100μF 20% 16V
C260	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C334	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C261	1-164-315-11	CERAMIC CHIP	470pF 5% 50V	C335	1-113-619-11	CERAMIC CHIP	0.47μF 10V
C262	1-164-315-11	CERAMIC CHIP	470pF 5% 50V	C336	1-162-964-11	CERAMIC CHIP	0.001μF 10% 50V
C263	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C337	1-162-964-11	CERAMIC CHIP	0.001μF 10% 50V
C264	1-126-962-11	ELECT	3.3μF 20% 50V	C338	1-126-962-11	ELECT	3.3μF 20% 50V
C265	1-126-964-11	ELECT	10μF 20% 50V	C339	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C266	1-126-964-11	ELECT	10μF 20% 50V	C340	1-126-933-11	ELECT	100μF 20% 16V
C267	1-126-965-91	ELECT	22μF 20% 50V	C341	1-113-619-11	CERAMIC CHIP	0.47μF 10V
C268	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C342	1-115-156-11	CERAMIC CHIP	1μF 10V
C269	1-164-392-11	CERAMIC CHIP	390pF 5% 50V	C343	1-162-968-11	CERAMIC CHIP	0.0047μF 10% 50V
C270	1-164-392-11	CERAMIC CHIP	390pF 5% 50V	C344	1-162-927-11	CERAMIC CHIP	100pF 5% 50V
C271	1-115-416-11	CERAMIC CHIP	0.001μF 5% 25V	C347	1-126-963-11	ELECT	4.7μF 20% 50V
C272	1-115-416-11	CERAMIC CHIP	0.001μF 5% 25V	C348	1-164-315-11	CERAMIC CHIP	470pF 5% 50V
C273	1-115-416-11	CERAMIC CHIP	0.001μF 5% 25V	C349	1-162-921-11	CERAMIC CHIP	33pF 5% 50V
C274	1-115-416-11	CERAMIC CHIP	0.001μF 5% 25V	C350	1-126-963-11	ELECT	4.7μF 20% 50V
C275	1-115-156-11	CERAMIC CHIP	1μF 10V	C351	1-135-834-91	CERAMIC CHIP	2.2μF 6.3V
C276	1-115-156-11	CERAMIC CHIP	1μF 10V	C352	1-113-619-11	CERAMIC CHIP	0.47μF 10V
C277	1-135-834-91	CERAMIC CHIP	2.2μF 6.3V	C353	1-135-834-91	CERAMIC CHIP	2.2μF 6.3V
C278	1-135-834-91	CERAMIC CHIP	2.2μF 6.3V	C354	1-113-619-11	CERAMIC CHIP	0.47μF 10V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C355	1-126-965-91	ELECT	22μF 20% 50V	C4101	1-164-217-11	CERAMIC CHIP 150pF 5% 50V	
C356	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V				
C357	1-164-315-11	CERAMIC CHIP	470pF 5% 50V				
						<FILTER>	
C358	1-113-619-11	CERAMIC CHIP	0.47μF 10V				
C359	1-162-917-11	CERAMIC CHIP	15pF 5% 50V	CF120	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	
C360	1-162-917-11	CERAMIC CHIP	15pF 5% 50V				
C361	1-162-921-11	CERAMIC CHIP	33pF 5% 50V			<CONNECTOR>	
C362	1-162-921-11	CERAMIC CHIP	33pF 5% 50V				
				CN1	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
C370	1-135-834-91	CERAMIC CHIP	2.2μF 6.3V	CN6	* 1-564-516-11	PLUG, CONNECTOR 13P	
C371	1-115-416-11	CERAMIC CHIP	0.001μF 5% 25V	CN101	1-695-915-11	TAB (CONTACT)	
C372	1-164-156-11	CERAMIC CHIP	0.1μF 25V	CN102	1-695-915-11	TAB (CONTACT)	
C373	1-127-715-91	CERAMIC CHIP	0.22μF 10% 16V	CN104	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
C380	1-164-156-11	CERAMIC CHIP	0.1μF 25V				
				CN201	1-766-296-11	CONNECTOR, DUAL SCART (AV1, AV2 IN/OUT)	
C1001	1-162-919-11	CERAMIC CHIP	22pF 5% 50V	CN301	* 1-564-510-11	PLUG, CONNECTOR 7P	
C1002	1-162-919-11	CERAMIC CHIP	22pF 5% 50V	CN4501	* 1-564-511-11	PLUG, CONNECTOR 8P	
C1010	1-164-156-11	CERAMIC CHIP	0.1μF 25V	CN4502	* 1-564-510-11	PLUG, CONNECTOR 7P	
C1013	1-126-965-91	ELECT	22μF 20% 50V				
C1014	1-164-156-11	CERAMIC CHIP	0.1μF 25V				
						<DIODE>	
C1015	1-127-715-91	CERAMIC CHIP	0.22μF 10% 16V	D2	8-719-988-61	DIODE 1SS355TE-17	
C1020	1-164-230-11	CERAMIC CHIP	220pF 5% 50V	D11	8-719-069-55	DIODE UDZSTE-175.6B	
C4017	1-162-922-11	CERAMIC CHIP	39pF 5% 50V	D12	8-719-069-55	DIODE UDZSTE-175.6B	
C4031	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	D16	8-719-988-61	DIODE 1SS355TE-17	
C4032	1-126-964-11	ELECT	10μF 20% 50V	D101	8-719-977-81	DIODE DTZ33B	
C4033	1-126-933-11	ELECT	100μF 20% 16V	D102	8-719-988-61	DIODE 1SS355TE-17	
C4035	1-126-964-11	ELECT	10μF 20% 50V	D201	8-719-069-60	DIODE UDZSTE-179.1B	
C4036	1-126-964-11	ELECT	10μF 20% 50V	D202	8-719-069-60	DIODE UDZSTE-179.1B	
C4038	1-126-964-11	ELECT	10μF 20% 50V	D203	8-719-069-60	DIODE UDZSTE-179.1B	
C4039	1-126-964-11	ELECT	10μF 20% 50V	D204	8-719-069-60	DIODE UDZSTE-179.1B	
C4040	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D205	8-719-069-60	DIODE UDZSTE-179.1B	
C4041	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D206	8-719-069-60	DIODE UDZSTE-179.1B	
C4042	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D207	8-719-069-60	DIODE UDZSTE-179.1B	
C4043	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D208	8-719-069-60	DIODE UDZSTE-179.1B	
C4044	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D209	8-719-069-60	DIODE UDZSTE-179.1B	
C4045	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D210	8-719-069-60	DIODE UDZSTE-179.1B	
C4046	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D211	8-719-069-60	DIODE UDZSTE-179.1B	
C4047	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D212	8-719-069-60	DIODE UDZSTE-179.1B	
C4048	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D213	8-719-069-60	DIODE UDZSTE-179.1B	
C4055	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D214	8-719-069-60	DIODE UDZSTE-179.1B	
C4056	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D215	8-719-069-60	DIODE UDZSTE-179.1B	
C4057	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D216	8-719-069-55	DIODE UDZSTE-175.6B	
C4058	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D217	8-719-069-55	DIODE UDZSTE-175.6B	
C4059	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D218	8-719-069-55	DIODE UDZSTE-175.6B	
C4060	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D220	8-719-988-61	DIODE 1SS355TE-17	
C4061	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D221	8-719-988-61	DIODE 1SS355TE-17	
C4062	1-164-156-11	CERAMIC CHIP	0.1μF 25V	D222	8-719-069-55	DIODE UDZSTE-175.6B	
C4064	1-126-964-11	ELECT	10μF 20% 50V	D223	8-719-069-60	DIODE UDZSTE-179.1B	
C4066	1-126-959-11	ELECT	0.47μF 20% 50V	D224	8-719-069-60	DIODE UDZSTE-179.1B	
C4067	1-115-156-11	CERAMIC CHIP	1μF 10V	D225	8-719-069-60	DIODE UDZSTE-179.1B	
C4068	1-115-156-11	CERAMIC CHIP	1μF 10V	D226	8-719-069-60	DIODE UDZSTE-179.1B	
C4071	1-115-156-11	CERAMIC CHIP	1μF 10V	D251	8-719-047-16	DIODE BAS216	
C4072	1-115-156-11	CERAMIC CHIP	1μF 10V	D303	8-719-988-61	DIODE 1SS355TE-17	
C4082	1-126-964-11	ELECT	10μF 20% 50V	D304	8-719-988-61	DIODE 1SS355TE-17	
C4088	1-164-315-11	CERAMIC CHIP	470pF 5% 50V	D320	8-719-069-60	DIODE UDZSTE-179.1B	
C4089	1-164-315-11	CERAMIC CHIP	470pF 5% 50V				
C4090	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V				
C4091	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D370	8-719-047-16	DIODE BAS216		JR205	1-216-295-91	SHORT	0
D401	8-719-069-60	DIODE UDZSTE-179.1B		JR206	1-216-295-91	SHORT	0
D402	8-719-988-61	DIODE 1SS355TE-17		JR207	1-216-295-91	SHORT	0
D1010	8-719-036-58	DIODE MA3030-H (TX)		JR208	1-216-296-11	SHORT	0
D4004	8-719-069-60	DIODE UDZSTE-179.1B		JR209	1-216-295-91	SHORT	0
D4006	8-719-069-60	DIODE UDZSTE-179.1B		JR211	1-216-295-91	SHORT	0
D4007	8-719-069-60	DIODE UDZSTE-179.1B		JR212	1-216-295-91	SHORT	0
D4008	8-719-069-60	DIODE UDZSTE-179.1B		JR301	1-216-295-91	SHORT	0
D4009	8-719-069-60	DIODE UDZSTE-179.1B		JR303	1-216-296-11	SHORT	0
D4010	8-719-069-60	DIODE UDZSTE-179.1B		JR304	1-216-296-11	SHORT	0
D4011	8-719-069-55	DIODE UDZSTE-175.6B		JR305	1-216-296-11	SHORT	0
D4015	8-719-069-55	DIODE UDZSTE-175.6B		JR360	1-216-295-91	SHORT	0
		<FERRITE BEAD>		JR362	1-216-295-91	SHORT	0
FB101	1-414-235-22	FERRITE	0μH	JR1010	1-216-864-11	SHORT	0
		<FILTER>				<COIL>	
FL101	1-236-071-11	ENCAPSULATED COMPONENT		L101	1-410-993-42	INDUCTOR CHIP	1μH
FL102	1-233-765-21	FILTER		L102	1-410-506-11	INDUCTOR	5.6μH
FL103	1-233-765-21	FILTER		L103	1-412-009-31	INDUCTOR CHIP	18μH
FL104	1-233-765-21	FILTER		L120	1-408-602-31	INDUCTOR	8.2μH
FL105	1-236-071-11	ENCAPSULATED COMPONENT		L121	1-414-177-11	INDUCTOR	1μH
FL106	1-236-071-11	ENCAPSULATED COMPONENT		L122	1-408-602-31	INDUCTOR	8.2μH
FL107	1-236-071-11	ENCAPSULATED COMPONENT		L201	1-414-187-11	INDUCTOR	47μH
FL108	1-236-071-11	ENCAPSULATED COMPONENT		L202	1-412-002-31	INDUCTOR CHIP	4.7μH
FL201	1-236-071-11	ENCAPSULATED COMPONENT		L203	1-412-002-31	INDUCTOR CHIP	4.7μH
FL202	1-236-071-11	ENCAPSULATED COMPONENT		L204	1-412-002-31	INDUCTOR CHIP	4.7μH
FL203	1-236-071-11	ENCAPSULATED COMPONENT		L205	1-412-002-31	INDUCTOR CHIP	4.7μH
FL1001	1-236-071-11	ENCAPSULATED COMPONENT		L206	1-412-002-31	INDUCTOR CHIP	4.7μH
		<IC>		L207	1-216-864-11	SHORT	0
IC1	8-759-376-77	IC SDA30C263-GEG		L208	1-412-002-31	INDUCTOR CHIP	4.7μH
IC2	8-759-564-06	IC M24C32-MN6T		L300	1-412-006-31	INDUCTOR CHIP	10μH
IC3	1-750-797-12	SOCKET, PLCC		L302	1-412-979-21	INDUCTOR	1μF
IC4	8-759-394-57	IC PST593C-MMP-4P		L303	1-412-979-21	INDUCTOR	1μF
IC103	8-752-390-37	IC CXD2064Q-T6		L304	1-412-979-21	INDUCTOR	1μF
				L305	1-412-979-21	INDUCTOR	1μF
IC201	8-752-081-26	IC CXA2040AQ-T4				<TRANSISTOR>	
IC202	6-700-412-01	IC MSP3411G-PS-B8		Q1	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC204	8-759-008-67	IC MC14066BF		Q2	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC205	8-759-394-57	IC PST593C-MMP-4P		Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC206	8-752-058-68	IC CXA1315M		Q17	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q18	8-729-027-38	TRANSISTOR DTA144EKA-T146	
IC301	8-752-081-43	IC CXA2076Q-TL		Q20	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC302	8-759-565-20	IC TDA4665T/V5-118		Q21	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC303	8-759-430-79	IC TDA8395T/N3		Q22	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1001	8-759-584-20	IC SDA5273-3CP-C55-22-GEG		Q23	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC4003	8-752-087-76	IC CXA2089Q-T6		Q24	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
		<CHIP CONDUCTOR>		Q25	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
JR1	1-216-864-11	SHORT	0	Q81	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR2	1-216-296-11	SHORT	0	Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR3	1-216-296-11	SHORT	0	Q102	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
JR6	1-216-864-11	SHORT	0	Q103	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
JR201	1-216-864-11	SHORT	0	Q104	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q105	8-729-120-28	TRANSISTOR 2SC1623-L5L6	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q106	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q107	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q108	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				<RESISTOR>	
Q109	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R1	1-216-821-11	RES-CHIP 1K	5% 1/16W
Q110	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2	1-216-809-11	RES-CHIP 100	5% 1/16W
Q111	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R3	1-216-809-11	RES-CHIP 100	5% 1/16W
Q112	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R4	1-216-803-11	RES-CHIP 33	5% 1/16W
Q113	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R5	1-216-833-11	RES-CHIP 10K	5% 1/16W
Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R6	1-208-798-11	METAL CHIP 4.7K	0.5% 1/10W
Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R7	1-216-817-11	RES-CHIP 470	5% 1/16W
Q116	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R9	1-216-817-11	RES-CHIP 470	5% 1/16W
Q117	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R20	1-216-809-11	RES-CHIP 100	5% 1/16W
Q118	8-729-039-67	TRANSISTOR BSS83		R21	1-216-809-11	RES-CHIP 100	5% 1/16W
Q120	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R24	1-216-829-11	RES-CHIP 4.7K	5% 1/16W
Q121	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R25	1-216-829-11	RES-CHIP 4.7K	5% 1/16W
Q122	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R28	1-216-833-11	RES-CHIP 10K	5% 1/16W
Q124	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R29	1-216-829-11	RES-CHIP 4.7K	5% 1/16W
Q125	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R30	1-216-829-11	RES-CHIP 4.7K	5% 1/16W
Q130	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R31	1-216-829-11	RES-CHIP 4.7K	5% 1/16W
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R32	1-216-809-11	RES-CHIP 100	5% 1/16W
Q203	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R33	1-216-809-11	RES-CHIP 100	5% 1/16W
Q204	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R34	1-216-809-11	RES-CHIP 100	5% 1/16W
Q205	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R35	1-216-809-11	RES-CHIP 100	5% 1/16W
Q206	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R39	1-216-833-11	RES-CHIP 10K	5% 1/16W
Q207	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R46	1-216-844-11	RES-CHIP 82K	5% 1/16W
Q208	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R49	1-216-809-11	RES-CHIP 100	5% 1/16W
Q209	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R52	1-216-837-11	RES-CHIP 22K	5% 1/16W
Q211	1-801-806-11	TRANSISTOR DTC144EKA-T146		R53	1-216-821-11	RES-CHIP 1K	5% 1/16W
Q212	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R54	1-216-809-11	RES-CHIP 100	5% 1/16W
Q213	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R58	1-216-828-11	RES-CHIP 3.9K	5% 1/16W
Q214	1-801-806-11	TRANSISTOR DTC144EKA-T146		R59	1-216-809-11	RES-CHIP 100	5% 1/16W
Q215	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R60	1-216-809-11	RES-CHIP 100	5% 1/16W
Q216	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R61	1-216-809-11	RES-CHIP 100	5% 1/16W
Q300	1-801-806-11	TRANSISTOR DTC144EKA-T146		R62	1-216-809-11	RES-CHIP 100	5% 1/16W
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R63	1-216-809-11	RES-CHIP 100	5% 1/16W
Q305	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R64	1-216-809-11	RES-CHIP 100	5% 1/16W
Q306	1-801-806-11	TRANSISTOR DTC144EKA-T146		R65	1-216-809-11	RES-CHIP 100	5% 1/16W
Q307	1-801-806-11	TRANSISTOR DTC144EKA-T146		R66	1-216-825-11	RES-CHIP 2.2K	5% 1/16W
Q308	1-801-806-11	TRANSISTOR DTC144EKA-T146		R67	1-216-825-11	RES-CHIP 2.2K	5% 1/16W
Q309	1-801-806-11	TRANSISTOR DTC144EKA-T146		R68	1-216-809-11	RES-CHIP 100	5% 1/16W
Q330	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R69	1-216-821-11	RES-CHIP 1K	5% 1/16W
Q331	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R70	1-216-809-11	RES-CHIP 100	5% 1/16W
Q333	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R71	1-216-809-11	RES-CHIP 100	5% 1/16W
Q334	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R72	1-216-809-11	RES-CHIP 100	5% 1/16W
Q335	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R73	1-216-809-11	RES-CHIP 100	5% 1/16W
Q401	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R74	1-216-809-11	RES-CHIP 100	5% 1/16W
Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R76	1-216-809-11	RES-CHIP 100	5% 1/16W
Q403	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R78	1-216-809-11	RES-CHIP 100	5% 1/16W
Q404	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R79	1-216-813-11	RES-CHIP 220	5% 1/16W
Q405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R80	1-216-821-11	RES-CHIP 1K	5% 1/16W
Q1001	1-801-806-11	TRANSISTOR DTC144EKA-T146		R83	1-216-809-11	RES-CHIP 100	5% 1/16W
Q1002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R84	1-216-845-11	RES-CHIP 100K	5% 1/16W
Q2412	8-729-027-56	TRANSISTOR DTC143TKA-T146		R85	1-216-843-11	RES-CHIP 68K	5% 1/16W
Q2414	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R86	1-216-821-11	RES-CHIP 1K	5% 1/16W
Q4003	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R87	1-216-835-11	RES-CHIP 15K	5% 1/16W
Q4007	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R88	1-216-809-11	RES-CHIP 100	5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R91	1-216-809-11	RES-CHIP	100 5% 1/16W	R151	1-216-809-11	RES-CHIP	100 5% 1/16W
R92	1-216-809-11	RES-CHIP	100 5% 1/16W	R152	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R93	1-216-813-11	RES-CHIP	220 5% 1/16W	R153	1-216-809-11	RES-CHIP	100 5% 1/16W
R94	1-216-813-11	RES-CHIP	220 5% 1/16W	R154	1-216-864-11	SHORT	0
R95	1-216-813-11	RES-CHIP	220 5% 1/16W	R157	1-216-864-11	SHORT	0
R97	1-216-809-11	RES-CHIP	100 5% 1/16W	R160	1-216-864-11	SHORT	0
R100	1-216-813-11	RES-CHIP	220 5% 1/16W	R161	1-208-794-11	METAL CHIP	3.3K 0.5% 1/10W
R101	1-216-864-11	SHORT	0	R162	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R102	1-216-809-11	RES-CHIP	100 5% 1/16W	R163	1-216-813-11	RES-CHIP	220 5% 1/16W
R103	1-216-809-11	RES-CHIP	100 5% 1/16W	R164	1-216-841-11	RES-CHIP	47K 5% 1/16W
R104	1-216-833-11	RES-CHIP	10K 5% 1/16W	R165	1-216-841-11	RES-CHIP	47K 5% 1/16W
R105	1-216-853-11	RES-CHIP	470K 5% 1/16W	R166	1-216-813-11	RES-CHIP	220 5% 1/16W
R106	1-216-833-11	RES-CHIP	10K 5% 1/16W	R167	1-216-818-11	RES-CHIP	560 5% 1/16W
R107	1-216-818-11	RES-CHIP	560 5% 1/16W	R168	1-216-830-11	RES-CHIP	5.6K 5% 1/16W
R108	1-216-842-11	RES-CHIP	56K 5% 1/16W	R169	1-216-813-11	RES-CHIP	220 5% 1/16W
R109	1-216-821-11	RES-CHIP	1K 5% 1/16W	R170	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R110	1-216-832-11	RES-CHIP	8.2K 5% 1/16W	R171	1-216-809-11	RES-CHIP	100 5% 1/16W
R111	1-216-811-11	RES-CHIP	150 5% 1/16W	R172	1-216-813-11	RES-CHIP	220 5% 1/16W
R112	1-216-811-11	RES-CHIP	150 5% 1/16W	R174	1-216-821-11	RES-CHIP	1K 5% 1/16W
R113	1-216-797-11	RES-CHIP	10 5% 1/16W	R175	1-216-821-11	RES-CHIP	1K 5% 1/16W
R114	1-216-811-11	RES-CHIP	150 5% 1/16W	R176	1-216-821-11	RES-CHIP	1K 5% 1/16W
R115	1-216-815-11	RES-CHIP	330 5% 1/16W	R177	1-208-811-11	METAL CHIP	16K 0.5% 1/10W
R116	1-216-817-11	RES-CHIP	470 5% 1/16W	R178	1-216-837-11	RES-CHIP	22K 5% 1/16W
R117	1-216-831-11	RES-CHIP	6.8K 5% 1/16W	R179	1-216-817-11	RES-CHIP	470 5% 1/16W
R118	1-216-805-11	RES-CHIP	47 5% 1/16W	R180	1-216-841-11	RES-CHIP	47K 5% 1/16W
R119	1-216-834-11	RES-CHIP	12K 5% 1/16W	R181	1-216-841-11	RES-CHIP	47K 5% 1/16W
R120	1-216-831-11	RES-CHIP	6.8K 5% 1/16W	R182	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R121	1-216-833-11	RES-CHIP	10K 5% 1/16W	R183	1-208-770-11	METAL CHIP	330 0.5% 1/10W
R122	1-216-817-11	RES-CHIP	470 5% 1/16W	R184	1-216-817-11	RES-CHIP	470 5% 1/16W
R123	1-216-812-11	RES-CHIP	180 5% 1/16W	R185	1-216-818-11	RES-CHIP	560 5% 1/16W
R124	1-216-821-11	RES-CHIP	1K 5% 1/16W	R186	1-216-830-11	RES-CHIP	5.6K 5% 1/16W
R125	1-216-837-11	RES-CHIP	22K 5% 1/16W	R187	1-216-821-11	RES-CHIP	1K 5% 1/16W
R126	1-216-809-11	RES-CHIP	100 5% 1/16W	R188	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R127	1-216-837-11	RES-CHIP	22K 5% 1/16W	R189	1-216-818-11	RES-CHIP	560 5% 1/16W
R128	1-216-814-11	RES-CHIP	270 5% 1/16W	R190	1-216-830-11	RES-CHIP	5.6K 5% 1/16W
R129	1-216-815-11	RES-CHIP	330 5% 1/16W	R191	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R130	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	R192	1-216-821-11	RES-CHIP	1K 5% 1/16W
R131	1-216-833-11	RES-CHIP	10K 5% 1/16W	R193	1-216-821-11	RES-CHIP	1K 5% 1/16W
R132	1-216-809-11	RES-CHIP	100 5% 1/16W	R194	1-216-821-11	RES-CHIP	1K 5% 1/16W
R133	1-216-817-11	RES-CHIP	470 5% 1/16W	R195	1-216-821-11	RES-CHIP	1K 5% 1/16W
R134	1-216-797-11	RES-CHIP	10 5% 1/16W	R196	1-216-821-11	RES-CHIP	1K 5% 1/16W
R135	1-216-819-11	RES-CHIP	680 5% 1/16W	R197	1-216-821-11	RES-CHIP	1K 5% 1/16W
R136	1-216-813-11	RES-CHIP	220 5% 1/16W	R198	1-216-813-11	RES-CHIP	220 5% 1/16W
R137	1-216-821-11	RES-CHIP	1K 5% 1/16W	R199	1-208-764-11	METAL CHIP	180 0.5% 1/10W
R138	1-216-817-11	RES-CHIP	470 5% 1/16W	R200	1-216-821-11	RES-CHIP	1K 5% 1/16W
R139	1-216-821-11	RES-CHIP	1K 5% 1/16W	R201	1-216-864-11	SHORT	0
R140	1-216-817-11	RES-CHIP	470 5% 1/16W	R202	1-216-821-11	RES-CHIP	1K 5% 1/16W
R141	1-216-820-11	RES-CHIP	820 5% 1/16W	R203	1-216-809-11	RES-CHIP	100 5% 1/16W
R142	1-216-864-11	SHORT	0	R204	1-216-809-11	RES-CHIP	100 5% 1/16W
R144	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R205	1-216-837-11	RES-CHIP	22K 5% 1/16W
R145	1-216-809-11	RES-CHIP	100 5% 1/16W	R206	1-216-813-11	RES-CHIP	220 5% 1/16W
R146	1-216-809-11	RES-CHIP	100 5% 1/16W	R207	1-216-841-11	RES-CHIP	47K 5% 1/16W
R147	1-216-809-11	RES-CHIP	100 5% 1/16W	R208	1-216-819-11	RES-CHIP	680 5% 1/16W
R148	1-216-809-11	RES-CHIP	100 5% 1/16W	R209	1-216-821-11	RES-CHIP	1K 5% 1/16W
R149	1-216-809-11	RES-CHIP	100 5% 1/16W	R211	1-216-821-11	RES-CHIP	1K 5% 1/16W
R150	1-216-809-11	RES-CHIP	100 5% 1/16W	R212	1-218-285-11	RES-CHIP	75 5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R213	1-218-285-11	RES-CHIP	75 5% 1/16W	R272	1-218-285-11	RES-CHIP	75 5% 1/16W
R214	1-216-821-11	RES-CHIP	1K 5% 1/16W	R273	1-218-285-11	RES-CHIP	75 5% 1/16W
R216	1-216-809-11	RES-CHIP	100 5% 1/16W	R274	1-216-841-11	RES-CHIP	47K 5% 1/16W
R217	1-216-837-11	RES-CHIP	22K 5% 1/16W	R280	1-216-821-11	RES-CHIP	1K 5% 1/16W
R218	1-216-809-11	RES-CHIP	100 5% 1/16W	R281	1-216-841-11	RES-CHIP	47K 5% 1/16W
R219	1-216-837-11	RES-CHIP	22K 5% 1/16W	R282	1-216-843-11	RES-CHIP	68K 5% 1/16W
R220	1-216-864-11	SHORT	0	R283	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R221	1-216-816-11	RES-CHIP	390 5% 1/16W	R284	1-216-841-11	RES-CHIP	47K 5% 1/16W
R222	1-216-841-11	RES-CHIP	47K 5% 1/16W	R285	1-216-843-11	RES-CHIP	68K 5% 1/16W
R223	1-216-864-11	SHORT	0	R286	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R224	1-216-816-11	RES-CHIP	390 5% 1/16W	R287	1-216-817-11	RES-CHIP	470 5% 1/16W
R225	1-216-841-11	RES-CHIP	47K 5% 1/16W	R288	1-216-821-11	RES-CHIP	1K 5% 1/16W
R226	1-216-821-11	RES-CHIP	1K 5% 1/16W	R289	1-216-813-11	RES-CHIP	220 5% 1/16W
R227	1-216-808-11	RES-CHIP	82 5% 1/16W	R290	1-216-813-11	RES-CHIP	220 5% 1/16W
R228	1-218-285-11	RES-CHIP	75 5% 1/16W	R291	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R229	1-216-821-11	RES-CHIP	1K 5% 1/16W	R292	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R230	1-216-808-11	RES-CHIP	82 5% 1/16W	R295	1-216-821-11	RES-CHIP	1K 5% 1/16W
R232	1-216-821-11	RES-CHIP	1K 5% 1/16W	R296	1-216-821-11	RES-CHIP	1K 5% 1/16W
R233	1-216-809-11	RES-CHIP	100 5% 1/16W	R297	1-216-813-11	RES-CHIP	220 5% 1/16W
R234	1-216-837-11	RES-CHIP	22K 5% 1/16W	R298	1-216-813-11	RES-CHIP	220 5% 1/16W
R235	1-216-809-11	RES-CHIP	100 5% 1/16W	R300	1-216-809-11	RES-CHIP	100 5% 1/16W
R236	1-216-837-11	RES-CHIP	22K 5% 1/16W	R301	1-216-813-11	RES-CHIP	220 5% 1/16W
R237	1-216-864-11	SHORT	0	R302	1-216-864-11	SHORT	0
R238	1-216-841-11	RES-CHIP	47K 5% 1/16W	R303	1-216-864-11	SHORT	0
R239	1-216-816-11	RES-CHIP	390 5% 1/16W	R304	1-216-861-11	RES-CHIP	2.2M 5% 1/16W
R240	1-216-864-11	SHORT	0	R305	1-216-813-11	RES-CHIP	220 5% 1/16W
R241	1-216-841-11	RES-CHIP	47K 5% 1/16W	R308	1-216-809-11	RES-CHIP	100 5% 1/16W
R242	1-216-816-11	RES-CHIP	390 5% 1/16W	R309	1-216-813-11	RES-CHIP	220 5% 1/16W
R243	1-216-864-11	SHORT	0	R310	1-216-813-11	RES-CHIP	220 5% 1/16W
R244	1-216-817-11	RES-CHIP	470 5% 1/16W	R312	1-216-864-11	SHORT	0
R245	1-216-821-11	RES-CHIP	1K 5% 1/16W	R314	1-216-864-11	SHORT	0
R247	1-216-817-11	RES-CHIP	470 5% 1/16W	R315	1-216-864-11	SHORT	0
R248	1-216-809-11	RES-CHIP	100 5% 1/16W	R316	1-216-813-11	RES-CHIP	220 5% 1/16W
R250	1-216-864-11	SHORT	0	R317	1-216-813-11	RES-CHIP	220 5% 1/16W
R251	1-216-821-11	RES-CHIP	1K 5% 1/16W	R320	1-216-809-11	RES-CHIP	100 5% 1/16W
R252	1-216-833-11	RES-CHIP	10K 5% 1/16W	R321	1-216-809-11	RES-CHIP	100 5% 1/16W
R253	1-216-821-11	RES-CHIP	1K 5% 1/16W	R322	1-216-809-11	RES-CHIP	100 5% 1/16W
R254	1-216-817-11	RES-CHIP	470 5% 1/16W	R323	1-216-813-11	RES-CHIP	220 5% 1/16W
R255	1-216-809-11	RES-CHIP	100 5% 1/16W	R325	1-216-841-11	RES-CHIP	47K 5% 1/16W
R256	1-216-809-11	RES-CHIP	100 5% 1/16W	R326	1-216-809-11	RES-CHIP	100 5% 1/16W
R257	1-216-833-11	RES-CHIP	10K 5% 1/16W	R327	1-216-809-11	RES-CHIP	100 5% 1/16W
R258	1-216-817-11	RES-CHIP	470 5% 1/16W	R329	1-216-841-11	RES-CHIP	47K 5% 1/16W
R259	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	R330	1-216-809-11	RES-CHIP	100 5% 1/16W
R260	1-216-813-11	RES-CHIP	220 5% 1/16W	R331	1-216-826-11	RES-CHIP	2.7K 5% 1/16W
R261	1-216-817-11	RES-CHIP	470 5% 1/16W	R332	1-216-821-11	RES-CHIP	1K 5% 1/16W
R262	1-216-809-11	RES-CHIP	100 5% 1/16W	R333	1-216-830-11	RES-CHIP	5.6K 5% 1/16W
R263	1-216-821-11	RES-CHIP	1K 5% 1/16W	R334	1-216-817-11	RES-CHIP	470 5% 1/16W
R264	1-216-841-11	RES-CHIP	47K 5% 1/16W	R335	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R265	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R336	1-216-851-11	RES-CHIP	330K 5% 1/16W
R266	1-216-841-11	RES-CHIP	47K 5% 1/16W	R337	1-216-809-11	RES-CHIP	100 5% 1/16W
R267	1-216-838-11	RES-CHIP	27K 5% 1/16W	R338	1-216-821-11	RES-CHIP	1K 5% 1/16W
R268	1-216-841-11	RES-CHIP	47K 5% 1/16W	R339	1-216-821-11	RES-CHIP	1K 5% 1/16W
R269	1-216-841-11	RES-CHIP	47K 5% 1/16W	R340	1-216-809-11	RES-CHIP	100 5% 1/16W
R270	1-218-285-11	RES-CHIP	75 5% 1/16W	R341	1-216-809-11	RES-CHIP	100 5% 1/16W
R271	1-218-285-11	RES-CHIP	75 5% 1/16W	R342	1-216-821-11	RES-CHIP	1K 5% 1/16W
				R343	1-216-827-11	RES-CHIP	3.3K 5% 1/16W

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

KP-41PX1/41PX1K/41PX1R

RM-892 RM-892 RM-862



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R345	1-216-864-11	SHORT	0	R4029	1-216-833-11	RES-CHIP	10K 5% 1/16W
R347	1-216-809-11	RES-CHIP	100 5% 1/16W	R4030	1-216-833-11	RES-CHIP	10K 5% 1/16W
R348	1-216-809-11	RES-CHIP	100 5% 1/16W	R4032	1-216-833-11	RES-CHIP	10K 5% 1/16W
R349	1-216-809-11	RES-CHIP	100 5% 1/16W	R4047	1-216-833-11	RES-CHIP	10K 5% 1/16W
R350	1-216-817-11	RES-CHIP	470 5% 1/16W	R4052	1-216-864-11	SHORT	0
R351	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R4053	1-216-864-11	SHORT	0
R352	1-216-835-11	RES-CHIP	15K 5% 1/16W	R4054	1-216-822-11	RES-CHIP	1.2K 5% 1/16W
R353	1-216-821-11	RES-CHIP	1K 5% 1/16W	R4055	1-216-822-11	RES-CHIP	1.2K 5% 1/16W
R354	1-216-864-11	SHORT	0	R4058	1-216-822-11	RES-CHIP	1.2K 5% 1/16W
R355	1-216-843-11	RES-CHIP	68K 5% 1/16W	R4059	1-216-822-11	RES-CHIP	1.2K 5% 1/16W
R356	1-216-863-11	RES-CHIP	3.3M 5% 1/16W	R4065	1-216-864-11	SHORT	0
R359	1-216-864-11	SHORT	0	R4066	1-216-864-11	SHORT	0
R360	1-216-861-11	RES-CHIP	2.2M 5% 1/16W	R4067	1-216-864-11	SHORT	0
R361	1-216-861-11	RES-CHIP	2.2M 5% 1/16W	R4073	1-216-837-11	RES-CHIP	22K 5% 1/16W
R362	1-216-821-11	RES-CHIP	1K 5% 1/16W	R4075	1-216-817-11	RES-CHIP	470 5% 1/16W
R364	1-216-821-11	RES-CHIP	1K 5% 1/16W	R4078	1-216-837-11	RES-CHIP	22K 5% 1/16W
R366	1-216-833-11	RES-CHIP	10K 5% 1/16W	R4084	1-216-833-11	RES-CHIP	10K 5% 1/16W
R367	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R4087	1-216-807-11	RES-CHIP	68 5% 1/16W
R368	1-216-809-11	RES-CHIP	100 5% 1/16W	R4088	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R370	1-216-864-11	SHORT	0	R4089	1-216-831-11	RES-CHIP	6.8K 5% 1/16W
R392	1-216-821-11	RES-CHIP	1K 5% 1/16W	R4105	1-216-813-11	RES-CHIP	220 5% 1/16W
R393	1-208-782-11	METAL CHIP	1K 0.5% 1/10W	R4106	1-216-809-11	RES-CHIP	100 5% 1/16W
R394	1-208-782-11	METAL CHIP	1K 0.5% 1/10W	R4107	1-216-809-11	RES-CHIP	100 5% 1/16W
R395	1-216-864-11	SHORT	0	R4108	1-216-813-11	RES-CHIP	220 5% 1/16W
R401	1-216-813-11	RES-CHIP	220 5% 1/16W	R4111	1-216-821-11	RES-CHIP	1K 5% 1/16W
R402	1-216-833-11	RES-CHIP	10K 5% 1/16W	<TUNER>			
R403	1-216-837-11	RES-CHIP	22K 5% 1/16W	TU101 $\triangle$ 8-598-535-10 FRONTEND BTF-EF411			
R404	1-216-838-11	RES-CHIP	27K 5% 1/16W	<CRYSTAL>			
R405	1-216-833-11	RES-CHIP	10K 5% 1/16W	X1	1-767-154-21	VIBRATOR, CERAMIC (11.5MHz)	
R406	1-216-833-11	RES-CHIP	10K 5% 1/16W	X201	1-781-148-21	VIBRATOR, CRYSTAL (18.432MHz)	
R407	1-216-833-11	RES-CHIP	10K 5% 1/16W	X301	1-567-504-11	OSCILLATOR, CRYSTAL (4.43MHz)	
R408	1-216-821-11	RES-CHIP	1K 5% 1/16W	X302	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)	
R409	1-216-821-11	RES-CHIP	1K 5% 1/16W	X303	1-767-127-11	VIBRATOR, CERAMIC (503.5kHz)	
R410	1-216-837-11	RES-CHIP	22K 5% 1/16W	X1001	1-760-551-21	VIBRATOR, CERAMIC (20.48MHz)	
R411	1-216-837-11	RES-CHIP	22K 5% 1/16W	*****			
R1001	1-216-809-11	RES-CHIP	100 5% 1/16W	* A-1632-959-A AE BOARD, COMPLETE (41PX1R)			
R1002	1-216-809-11	RES-CHIP	100 5% 1/16W	*****			
R1010	1-216-864-11	SHORT	0	1-750-797-12 SOCKET, PLCC			
R1012	1-216-817-11	RES-CHIP	470 5% 1/16W	<CAPACITOR>			
R1014	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	C1	1-163-038-00	CERAMIC CHIP	0.1μF 25V
R1017	1-216-864-11	SHORT	0	C2	1-126-947-11	ELECT	47μF 20% 16V
R1020	1-216-845-11	RES-CHIP	100K 5% 1/16W	C3	1-163-239-11	CERAMIC CHIP	33pF 5% 50V
R1021	1-216-811-11	RES-CHIP	150 5% 1/16W	C4	1-163-239-11	CERAMIC CHIP	33pF 5% 50V
R1022	1-216-811-11	RES-CHIP	150 5% 1/16W	C8	1-163-038-00	CERAMIC CHIP	0.1μF 25V
R1023	1-216-811-11	RES-CHIP	150 5% 1/16W	C10	1-163-243-11	CERAMIC CHIP	47pF 5% 50V
R1024	1-216-819-11	RES-CHIP	680 5% 1/16W	C11	1-163-243-11	CERAMIC CHIP	47pF 5% 50V
R1026	1-216-809-11	RES-CHIP	100 5% 1/16W	C14	1-163-038-00	CERAMIC CHIP	0.1μF 25V
R1027	1-216-809-11	RES-CHIP	100 5% 1/16W	C15	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
R1028	1-216-809-11	RES-CHIP	100 5% 1/16W	C18	1-163-038-00	CERAMIC CHIP	0.1μF 25V
R2436	1-216-821-11	RES-CHIP	1K 5% 1/16W				
R2437	1-216-833-11	RES-CHIP	10K 5% 1/16W				
R2438	1-216-833-11	RES-CHIP	10K 5% 1/16W				
R2914	1-216-809-11	RES-CHIP	100 5% 1/16W				
R2915	1-216-809-11	RES-CHIP	100 5% 1/16W				
R4003	1-218-285-11	RES-CHIP	75 5% 1/16W				
R4011	1-216-809-11	RES-CHIP	100 5% 1/16W				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C19	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	C205	1-126-965-91	ELECT	22μF 20% 50V
C20	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C206	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C21	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C207	1-126-964-11	ELECT	10μF 20% 50V
C22	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C208	1-126-965-91	ELECT	22μF 20% 50V
C24	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V	C209	1-126-964-11	ELECT	10μF 20% 50V
C25	1-126-947-11	ELECT	47μF 20% 16V	C210	1-216-295-00	SHORT	0
C26	1-126-947-11	ELECT	47μF 20% 16V	C211	1-126-965-91	ELECT	22μF 20% 50V
C43	1-163-255-11	CERAMIC CHIP	150pF 5% 50V	C212	1-164-346-11	CERAMIC CHIP	1μF 16V
C45	1-163-038-00	CERAMIC CHIP	0.1μF 25V	C213	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C90	1-163-038-00	CERAMIC CHIP	0.1μF 25V	C214	1-164-346-11	CERAMIC CHIP	1μF 16V
C101	1-163-038-00	CERAMIC CHIP	0.1μF 25V	C215	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C102	1-126-934-11	ELECT	220μF 20% 16V	C216	1-126-947-11	ELECT	47μF 20% 16V
C103	1-126-965-91	ELECT	22μF 20% 50V	C217	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V
C104	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C218	1-126-947-11	ELECT	47μF 20% 16V
C110	1-126-947-11	ELECT	47μF 20% 16V	C219	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V
C112	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V	C220	1-126-965-91	ELECT	22μF 20% 50V
C113	1-126-947-11	ELECT	47μF 20% 16V	C221	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C115	1-163-263-11	CERAMIC CHIP	330pF 5% 50V	C222	1-164-346-11	CERAMIC CHIP	1μF 16V
C120	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C223	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C121	1-163-247-11	CERAMIC CHIP	68pF 5% 50V	C224	1-164-346-11	CERAMIC CHIP	1μF 16V
C122	1-163-137-00	CERAMIC CHIP	680pF 5% 50V	C225	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C123	1-163-247-11	CERAMIC CHIP	68pF 5% 50V	C226	1-126-947-11	ELECT	47μF 20% 16V
C124	1-163-038-00	CERAMIC CHIP	0.1μF 25V	C227	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V
C125	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C228	1-126-947-11	ELECT	47μF 20% 16V
C126	1-126-933-11	ELECT	100μF 20% 16V	C229	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V
C127	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C230	1-216-295-00	SHORT	0
C128	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C242	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V
C129	1-163-089-00	CERAMIC CHIP	6pF 0.5pF 50V	C243	1-126-967-11	ELECT	47μF 20% 50V
C130	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C244	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V
C131	1-126-947-11	ELECT	47μF 20% 16V	C245	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V
C132	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C251	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C133	1-126-963-11	ELECT	4.7μF 20% 50V	C252	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C134	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C253	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C135	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C254	1-163-243-11	CERAMIC CHIP	47pF 5% 50V
C136	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C255	1-163-251-11	CERAMIC CHIP	100pF 5% 50V
C137	1-126-947-11	ELECT	47μF 20% 16V	C256	1-163-038-00	CERAMIC CHIP	0.1μF 25V
C138	1-126-964-11	ELECT	10μF 20% 50V	C257	1-126-965-11	ELECT	22μF 20% 50V
C139	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C258	1-126-964-11	ELECT	10μF 20% 50V
C143	1-126-947-11	ELECT	47μF 20% 16V	C259	1-164-005-11	CERAMIC CHIP	0.47μF 25V
C144	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C260	1-163-038-00	CERAMIC CHIP	0.1μF 25V
C145	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C261	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C146	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C262	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
C147	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C263	1-163-038-00	CERAMIC CHIP	0.1μF 25V
C148	1-126-933-11	ELECT	100μF 20% 16V	C264	1-126-962-11	ELECT	3.3μF 20% 50V
C149	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C265	1-126-964-11	ELECT	10μF 20% 50V
C150	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C266	1-126-964-11	ELECT	10μF 20% 50V
C151	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C267	1-126-965-91	ELECT	22μF 20% 50V
C152	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C268	1-163-038-00	CERAMIC CHIP	0.1μF 25V
C153	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C269	1-163-131-00	CERAMIC CHIP	390pF 5% 50V
C154	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C270	1-163-131-00	CERAMIC CHIP	390pF 5% 50V
C155	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C271	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C201	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C272	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C202	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C273	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C203	1-104-661-91	ELECT	330μF 20% 16V	C274	1-163-275-11	CERAMIC CHIP	1000pF 5% 50V
C204	1-163-038-00	CERAMIC CHIP	0.1μF 25V	C275	1-164-346-11	CERAMIC CHIP	1μF 16V
				C276	1-164-346-11	CERAMIC CHIP	1μF 16V



REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
C277	1-164-505-11	CERAMIC CHIP	2.2μF		16V	C356	1-164-232-11	CERAMIC CHIP	0.01μF	10%	50V
C278	1-164-505-11	CERAMIC CHIP	2.2μF		16V	C357	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C279	1-126-965-91	ELECT	22μF	20%	50V	C358	1-164-005-11	CERAMIC CHIP	0.47μF		25V
C280	1-163-038-00	CERAMIC CHIP	0.1μF		25V						
C281	1-126-965-91	ELECT	22μF	20%	50V	C359	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C282	1-163-038-00	CERAMIC CHIP	0.1μF		25V	C360	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C283	1-164-232-11	CERAMIC CHIP	0.01μF	10%	50V	C370	1-164-505-11	CERAMIC CHIP	2.2μF		16V
C300	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	C371	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V
C301	1-163-038-00	CERAMIC CHIP	0.1μF		25V	C372	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C302	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V	C373	1-164-489-11	CERAMIC CHIP	0.22μF	10%	16V
C303	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V	C376	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C304	1-163-038-00	CERAMIC CHIP	0.1μF		25V	C377	1-126-964-11	ELECT	10μF	20%	50V
C305	1-163-038-00	CERAMIC CHIP	0.1μF		25V	C380	1-163-038-00	CERAMIC CHIP	0.1μF		25V
C306	1-164-232-11	CERAMIC CHIP	0.01μF	10%	50V	C1001	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C307	1-164-232-11	CERAMIC CHIP	0.01μF	10%	50V	C1002	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C308	1-164-232-11	CERAMIC CHIP	0.01μF	10%	50V	C1010	1-163-038-00	CERAMIC CHIP	0.1μF		25V
C309	1-164-346-11	CERAMIC CHIP	1μF		16V	C1013	1-126-965-91	ELECT	22μF	20%	50V
C310	1-164-346-11	CERAMIC CHIP	1μF		16V	C1014	1-163-038-00	CERAMIC CHIP	0.1μF		25V
C311	1-164-346-11	CERAMIC CHIP	1μF		16V	C1015	1-164-489-11	CERAMIC CHIP	0.22μF	10%	16V
C312	1-164-505-11	CERAMIC CHIP	2.2μF		16V	C1020	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C313	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V						
C315	1-216-295-00	SHORT	0				<FILTER>				
C316	1-163-239-11	CERAMIC CHIP	33pF	5%	50V						
C317	1-163-038-00	CERAMIC CHIP	0.1μF		25V	CF120	1-781-328-21	TRAP, CERAMIC (6.5MHZ)			
C320	1-126-965-91	ELECT	22μF	20%	50V						
C321	1-164-232-11	CERAMIC CHIP	0.01μF	10%	50V		<CONNECTOR>				
C322	1-163-038-00	CERAMIC CHIP	0.1μF		25V						
C323	1-163-038-00	CERAMIC CHIP	0.1μF		25V	CN1	1-695-302-11	CONNECTOR, BOARD TO BOARD	50P		
C324	1-163-038-00	CERAMIC CHIP	0.1μF		25V	CN2	*1-564-508-11	PLUG, CONNECTOR	5P		
C325	1-164-346-11	CERAMIC CHIP	1μF		16V	CN6	*1-564-516-11	PLUG, CONNECTOR	13P		
C326	1-163-275-11	CERAMIC CHIP	1000pF	5%	50V	CN101	1-695-915-11	TAB (CONTACT)			
C327	1-137-374-11	FILM	0.047μF	5%	50V	CN201	1-766-296-31	CONNECTOR, DUAL SCART			
C328	1-126-964-11	ELECT	10μF	20%	50V	CN301	*1-564-510-11	PLUG, CONNECTOR	7P		
C330	1-130-777-00	FILM	0.1μF	5%	63V						
C331	1-137-581-11	FILM	0.1μF	5%	100V		<DIODE>				
C332	1-164-232-11	CERAMIC CHIP	0.01μF	10%	50V	D2	8-719-988-61	DIODE 1SS355TE-17			
C333	1-126-933-11	ELECT	100μF	20%	16V	D10	8-719-069-55	DIODE UDZSTE-175.6B			
C334	1-164-232-11	CERAMIC CHIP	0.01μF	10%	50V	D11	8-719-069-55	DIODE UDZSTE-175.6B			
C335	1-164-005-11	CERAMIC CHIP	0.47μF		25V	D12	8-719-069-55	DIODE UDZSTE-175.6B			
C336	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V	D16	8-719-988-61	DIODE 1SS355TE-17			
C337	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V						
C338	1-126-962-11	ELECT	3.3μF	20%	50V	D101	8-719-977-81	DIODE DTZ33B			
C339	1-164-232-11	CERAMIC CHIP	0.01μF	10%	50V	D102	8-719-988-61	DIODE 1SS355TE-17			
C340	1-126-933-11	ELECT	100μF	20%	16V	D201	8-719-069-60	DIODE UDZSTE-179.1B			
C341	1-164-005-11	CERAMIC CHIP	0.47μF		25V	D202	8-719-069-60	DIODE UDZSTE-179.1B			
C342	1-164-346-11	CERAMIC CHIP	1μF		16V	D203	8-719-069-60	DIODE UDZSTE-179.1B			
C343	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	D204	8-719-069-60	DIODE UDZSTE-179.1B			
C344	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	D205	8-719-069-60	DIODE UDZSTE-179.1B			
C347	1-126-963-11	ELECT	4.7μF	20%	50V	D206	8-719-069-60	DIODE UDZSTE-179.1B			
C348	1-163-133-00	CERAMIC CHIP	470pF	5%	50V	D207	8-719-069-60	DIODE UDZSTE-179.1B			
C350	1-126-964-11	ELECT	10μF	20%	50V	D208	8-719-069-60	DIODE UDZSTE-179.1B			
C351	1-164-505-11	CERAMIC CHIP	2.2μF		16V	D209	8-719-069-60	DIODE UDZSTE-179.1B			
C352	1-164-005-11	CERAMIC CHIP	0.47μF		25V	D210	8-719-069-60	DIODE UDZSTE-179.1B			
C353	1-164-505-11	CERAMIC CHIP	2.2μF		16V	D211	8-719-069-60	DIODE UDZSTE-179.1B			
C354	1-164-005-11	CERAMIC CHIP	0.47μF		25V	D212	8-719-069-60	DIODE UDZSTE-179.1B			
C355	1-126-965-91	ELECT	22μF	20%	50V	D213	8-719-069-60	DIODE UDZSTE-179.1B			

<FILTER>

CF120 1-781-328-21 TRAP, CERAMIC (6.5MHZ)

<CONNECTOR>

CN1 1-695-302-11 CONNECTOR, BOARD TO BOARD 50P
 CN2 *1-564-508-11 PLUG, CONNECTOR 5P
 CN6 *1-564-516-11 PLUG, CONNECTOR 13P
 CN101 1-695-915-11 TAB (CONTACT)
 CN201 1-766-296-31 CONNECTOR, DUAL SCART

CN301 *1-564-510-11 PLUG, CONNECTOR 7P

<DIODE>

D2 8-719-988-61 DIODE 1SS355TE-17
 D10 8-719-069-55 DIODE UDZSTE-175.6B
 D11 8-719-069-55 DIODE UDZSTE-175.6B
 D12 8-719-069-55 DIODE UDZSTE-175.6B
 D16 8-719-988-61 DIODE 1SS355TE-17

D101 8-719-977-81 DIODE DTZ33B
 D102 8-719-988-61 DIODE 1SS355TE-17
 D201 8-719-069-60 DIODE UDZSTE-179.1B
 D202 8-719-069-60 DIODE UDZSTE-179.1B
 D203 8-719-069-60 DIODE UDZSTE-179.1B

D204 8-719-069-60 DIODE UDZSTE-179.1B
 D205 8-719-069-60 DIODE UDZSTE-179.1B
 D206 8-719-069-60 DIODE UDZSTE-179.1B
 D207 8-719-069-60 DIODE UDZSTE-179.1B
 D208 8-719-069-60 DIODE UDZSTE-179.1B

D209 8-719-069-60 DIODE UDZSTE-179.1B
 D210 8-719-069-60 DIODE UDZSTE-179.1B
 D211 8-719-069-60 DIODE UDZSTE-179.1B
 D212 8-719-069-60 DIODE UDZSTE-179.1B
 D213 8-719-069-60 DIODE UDZSTE-179.1B



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D214	8-719-069-60	DIODE UDZSTE-179.1B					
D215	8-719-069-60	DIODE UDZSTE-179.1B					
D216	8-719-069-55	DIODE UDZSTE-175.6B				<CHIP, CONDUCTOR>	
D217	8-719-069-55	DIODE UDZSTE-175.6B		JR1	1-216-295-00	SHORT	0
D218	8-719-069-55	DIODE UDZSTE-175.6B		JR2	1-216-296-00	SHORT	0
				JR3	1-216-296-00	SHORT	0
D220	8-719-988-61	DIODE 1SS355TE-17		JR4	1-216-295-00	SHORT	0
D221	8-719-988-61	DIODE 1SS355TE-17		JR201	1-216-295-00	SHORT	0
D222	8-719-069-60	DIODE UDZSTE-179.1B					
D223	8-719-069-60	DIODE UDZSTE-179.1B		JR203	1-216-295-00	SHORT	0
D224	8-719-069-60	DIODE UDZSTE-179.1B		JR208	1-216-295-00	SHORT	0
				JR209	1-216-295-00	SHORT	0
D225	8-719-069-60	DIODE UDZSTE-179.1B		JR211	1-216-295-00	SHORT	0
D226	8-719-069-60	DIODE UDZSTE-179.1B		JR212	1-216-295-00	SHORT	0
D227	8-719-978-33	DIODE DTZ-TT11-6.8B					
D228	8-719-978-33	DIODE DTZ-TT11-6.8B		JR303	1-216-296-00	SHORT	0
D231	8-719-069-55	DIODE UDZSTE-175.6B		JR304	1-216-296-00	SHORT	0
				JR305	1-216-296-00	SHORT	0
D251	8-719-047-16	DIODE BAS216		JR360	1-216-295-00	SHORT	0
D303	8-719-988-61	DIODE 1SS355TE-17		JR362	1-216-295-00	SHORT	0
D304	8-719-988-61	DIODE 1SS355TE-17					
D320	8-719-069-60	DIODE UDZSTE-179.1B		JR1010	1-216-295-00	SHORT	0
D370	8-719-047-16	DIODE BAS216					
D1010	8-719-036-58	DIODE MA3030-H(TX)				<COIL>	
		<FERRITE BEAD>		L10	1-410-379-31	INDUCTOR CHIP	6.8μH
				L102	1-408-600-31	INDUCTOR	5.6μH
FB101	1-414-235-11	INDUCTOR CHIP 0μH		L111	1-216-295-00	SHORT	0
FB102	1-414-235-11	INDUCTOR CHIP 0μH		L120	1-408-602-31	INDUCTOR	8.2μH
FB103	1-414-235-11	INDUCTOR CHIP 0μH		L121	1-408-591-11	INDUCTOR	1μH
FB104	1-414-235-11	INDUCTOR CHIP 0μH					
		<FILTER>		L122	1-408-602-31	INDUCTOR	8.2μH
				L300	1-412-006-31	INDUCTOR CHIP	10μH
				L301	1-410-993-11	INDUCTOR CHIP	1μH
FL101	1-236-071-11	ENCAPSULATED COMPONENT				<TRANSISTOR>	
FL102	1-233-765-21	FILTER		Q1	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL103	1-233-765-21	FILTER		Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL104	1-233-765-21	FILTER		Q15	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL201	1-236-071-11	ENCAPSULATED COMPONENT		Q17	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
				Q18	8-729-027-38	TRANSISTOR DTA144EKA-T146	
FL202	1-236-071-11	ENCAPSULATED COMPONENT					
FL203	1-236-071-11	ENCAPSULATED COMPONENT		Q20	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL1001	1-236-071-11	ENCAPSULATED COMPONENT		Q21	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<IC>		Q22	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1	8-759-376-77	IC SDA30C263-GEG		Q23	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC2	8-759-524-94	IC M24C32-MW6T		Q24	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC3	8-759-690-63	IC M27C2001-12C1-RR403					
IC4	8-759-394-57	IC PST593C-MMP-4P		Q25	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC102	8-759-711-62	IC NJM2240M		Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q102	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC103	8-752-379-35	IC CXD2044Q-TL		Q103	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC201	8-752-081-26	IC CXA2040AQ-T4		Q104	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC202	8-759-654-15	IC MSP3410D-C5-PS-B4					
IC204	8-759-008-67	IC MC14066BF		Q105	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC205	8-759-394-57	IC PST593C-MMP-4P		Q106	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
				Q107	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC206	8-752-058-68	IC CXA1315M		Q108	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC301	8-752-081-43	IC CXA2076Q-TL		Q109	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC302	8-759-565-20	IC TDA4665T/V5-118					
IC303	8-759-430-79	IC TDA8395T/N3		Q110	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1001	8-759-584-20	IC SDA5273-3CP		Q111	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
				Q112	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
Q113	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				R32	1-216-025-00	RES,CHIP	100	5%	1/10W
Q114	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				R33	1-216-025-00	RES,CHIP	100	5%	1/10W
Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R34	1-216-025-00	RES,CHIP	100	5%	1/10W
Q116	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				R35	1-216-025-00	RES,CHIP	100	5%	1/10W
Q120	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R40	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
Q121	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R42	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
Q122	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R44	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
Q124	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R46	1-216-095-00	RES,CHIP	82K	5%	1/10W
Q125	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				R47	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
Q130	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				R48	1-217-671-11	RES,CHIP	1	5%	1/10W
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R49	1-216-025-00	RES,CHIP	100	5%	1/10W
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R50	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
Q203	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R51	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
Q204	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R52	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
Q211	1-801-806-11	TRANSISTOR DTC144EKA-T146				R53	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
Q212	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				R54	1-216-025-00	RES,CHIP	100	5%	1/10W
Q213	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				R58	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
Q214	1-801-806-11	TRANSISTOR DTC144EKA-T146				R59	1-216-025-00	RES,CHIP	100	5%	1/10W
Q215	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R60	1-216-025-00	RES,CHIP	100	5%	1/10W
Q216	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R61	1-216-025-00	RES,CHIP	100	5%	1/10W
Q217	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R62	1-216-025-00	RES,CHIP	100	5%	1/10W
Q300	1-801-806-11	TRANSISTOR DTC144EKA-T146				R64	1-216-025-00	RES,CHIP	100	5%	1/10W
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R65	1-216-025-00	RES,CHIP	100	5%	1/10W
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R66	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R67	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R68	1-216-025-00	RES,CHIP	100	5%	1/10W
Q305	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R70	1-216-025-00	RES,CHIP	100	5%	1/10W
Q306	1-801-806-11	TRANSISTOR DTC144EKA-T146				R71	1-216-025-00	RES,CHIP	100	5%	1/10W
Q307	1-801-806-11	TRANSISTOR DTC144EKA-T146				R72	1-216-025-00	RES,CHIP	100	5%	1/10W
Q308	1-801-806-11	TRANSISTOR DTC144EKA-T146				R73	1-216-025-00	RES,CHIP	100	5%	1/10W
Q309	1-801-806-11	TRANSISTOR DTC144EKA-T146				R74	1-216-025-00	RES,CHIP	100	5%	1/10W
Q330	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				R76	1-216-025-00	RES,CHIP	100	5%	1/10W
Q331	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R77	1-216-025-00	RES,CHIP	100	5%	1/10W
Q1001	1-801-806-11	TRANSISTOR DTC144EKA-T146				R78	1-216-025-00	RES,CHIP	100	5%	1/10W
Q1002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				R79	1-216-033-00	RES,CHIP	220	5%	1/10W
						R88	1-216-025-00	RES,CHIP	100	5%	1/10W
						R91	1-216-025-00	RES,CHIP	100	5%	1/10W
	<RESISTOR>					R92	1-216-025-00	RES,CHIP	100	5%	1/10W
R1	1-216-049-00	RES,CHIP	1K	5%	1/10W	R93	1-216-033-00	RES,CHIP	220	5%	1/10W
R2	1-216-025-00	RES,CHIP	100	5%	1/10W	R94	1-216-033-00	RES,CHIP	220	5%	1/10W
R3	1-216-025-00	RES,CHIP	100	5%	1/10W	R95	1-216-033-00	RES,CHIP	220	5%	1/10W
R4	1-216-013-00	RES,CHIP	33	5%	1/10W	R97	1-216-025-00	RES,CHIP	100	5%	1/10W
R5	1-216-073-00	RES,CHIP	10K	5%	1/10W						
R6	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R101	1-216-061-91	RES,CHIP	3.3K	5%	1/10W
R7	1-216-041-00	RES,CHIP	470	5%	1/10W	R102	1-216-025-00	RES,CHIP	100	5%	1/10W
R9	1-216-041-00	RES,CHIP	470	5%	1/10W	R103	1-216-025-00	RES,CHIP	100	5%	1/10W
R18	1-216-025-00	RES,CHIP	100	5%	1/10W	R104	1-216-073-00	RES,CHIP	10K	5%	1/10W
R19	1-216-025-00	RES,CHIP	100	5%	1/10W	R105	1-216-113-00	RES,CHIP	470K	5%	1/10W
R20	1-216-025-00	RES,CHIP	100	5%	1/10W	R106	1-216-073-00	RES,CHIP	10K	5%	1/10W
R21	1-216-025-00	RES,CHIP	100	5%	1/10W	R107	1-216-295-00	SHORT	0		
R24	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R110	1-216-073-00	RES,CHIP	10K	5%	1/10W
R25	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R111	1-216-029-00	RES,CHIP	150	5%	1/10W
R28	1-216-073-00	RES,CHIP	10K	5%	1/10W	R112	1-216-029-00	RES,CHIP	150	5%	1/10W
R29	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R113	1-216-001-00	RES,CHIP	10	5%	1/10W
R30	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R114	1-216-029-00	RES,CHIP	150	5%	1/10W
R31	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R115	1-216-037-00	RES,CHIP	330	5%	1/10W
						R116	1-216-065-00	RES,CHIP	4.7K	5%	1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R117	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R179	1-208-788-11	METAL CHIP	1.8K 0.5% 1/10W
R118	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R180	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R119	1-216-033-00	RES,CHIP	220 5% 1/10W	R181	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R120	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R182	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R121	1-216-073-00	RES,CHIP	10K 5% 1/10W	R183	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R122	1-216-041-00	RES,CHIP	470 5% 1/10W	R184	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R123	1-216-031-00	RES,CHIP	180 5% 1/10W	R185	1-216-043-91	RES,CHIP	560 5% 1/10W
R124	1-216-049-00	RES,CHIP	1K 5% 1/10W	R186	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R125	1-216-081-00	RES,CHIP	22K 5% 1/10W	R187	1-216-049-00	RES,CHIP	1K 5% 1/10W
R126	1-216-025-00	RES,CHIP	100 5% 1/10W	R188	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R127	1-216-081-00	RES,CHIP	22K 5% 1/10W	R189	1-216-043-91	RES,CHIP	560 5% 1/10W
R128	1-216-035-00	RES,CHIP	270 5% 1/10W	R190	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R129	1-216-037-00	RES,CHIP	330 5% 1/10W	R191	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R130	1-216-061-91	RES,CHIP	3.3K 5% 1/10W	R192	1-216-049-00	RES,CHIP	1K 5% 1/10W
R131	1-216-073-00	RES,CHIP	10K 5% 1/10W	R193	1-216-049-00	RES,CHIP	1K 5% 1/10W
R132	1-216-025-00	RES,CHIP	100 5% 1/10W	R194	1-216-049-00	RES,CHIP	1K 5% 1/10W
R133	1-216-041-00	RES,CHIP	470 5% 1/10W	R195	1-216-049-00	RES,CHIP	1K 5% 1/10W
R134	1-216-001-00	RES,CHIP	10 5% 1/10W	R196	1-216-049-00	RES,CHIP	1K 5% 1/10W
R135	1-216-045-00	RES,CHIP	680 5% 1/10W	R197	1-216-049-00	RES,CHIP	1K 5% 1/10W
R136	1-216-033-00	RES,CHIP	220 5% 1/10W	R198	1-216-033-00	RES,CHIP	220 5% 1/10W
R137	1-216-049-00	RES,CHIP	1K 5% 1/10W	R199	1-216-033-00	RES,CHIP	220 5% 1/10W
R138	1-216-041-00	RES,CHIP	470 5% 1/10W	R200	1-216-049-00	RES,CHIP	1K 5% 1/10W
R142	1-216-295-00	SHORT	0	R201	1-216-033-00	RES,CHIP	220 5% 1/10W
R143	1-216-295-00	SHORT	0	R202	1-216-033-00	RES,CHIP	220 5% 1/10W
R145	1-216-025-00	RES,CHIP	100 5% 1/10W	R203	1-216-025-00	RES,CHIP	100 5% 1/10W
R146	1-216-025-00	RES,CHIP	100 5% 1/10W	R204	1-216-025-00	RES,CHIP	100 5% 1/10W
R147	1-216-025-00	RES,CHIP	100 5% 1/10W	R205	1-216-689-11	RES,CHIP	39K 5% 1/10W
R148	1-216-025-00	RES,CHIP	100 5% 1/10W	R206	1-216-033-00	RES,CHIP	220 5% 1/10W
R149	1-216-025-00	RES,CHIP	100 5% 1/10W	R207	1-216-089-00	RES,CHIP	47K 5% 1/10W
R150	1-216-025-00	RES,CHIP	100 5% 1/10W	R208	1-216-041-00	RES,CHIP	470 5% 1/10W
R151	1-216-025-00	RES,CHIP	100 5% 1/10W	R209	1-216-049-00	RES,CHIP	1K 5% 1/10W
R153	1-216-025-00	RES,CHIP	100 5% 1/10W	R210	1-216-017-00	RES,CHIP	47 5% 1/10W
R154	1-216-295-00	SHORT	0	R211	1-216-033-00	RES,CHIP	220 5% 1/10W
R156	1-216-089-00	RES,CHIP	47K 5% 1/10W	R212	1-216-022-00	RES,CHIP	75 5% 1/10W
R157	1-216-089-00	RES,CHIP	47K 5% 1/10W	R213	1-216-022-00	RES,CHIP	75 5% 1/10W
R158	1-216-073-00	RES,CHIP	10K 5% 1/10W	R214	1-216-025-00	RES,CHIP	100 5% 1/10W
R159	1-216-049-00	RES,CHIP	1K 5% 1/10W	R216	1-216-025-00	RES,CHIP	100 5% 1/10W
R160	1-216-061-91	RES,CHIP	3.3K 5% 1/10W	R217	1-216-113-00	RES,CHIP	470K 5% 1/10W
R161	1-216-033-00	RES,CHIP	220 5% 1/10W	R218	1-216-025-00	RES,CHIP	100 5% 1/10W
R162	1-216-109-00	RES,CHIP	330K 5% 1/10W	R219	1-216-113-00	RES,CHIP	470K 5% 1/10W
R163	1-216-033-00	RES,CHIP	220 5% 1/10W	R220	1-216-295-00	SHORT	0
R164	1-216-089-91	RES,CHIP	47K 5% 1/10W	R221	1-216-039-00	RES,CHIP	390 5% 1/10W
R165	1-216-089-91	RES,CHIP	47K 5% 1/10W	R222	1-216-089-00	RES,CHIP	47K 5% 1/10W
R166	1-216-033-00	RES,CHIP	220 5% 1/10W	R223	1-216-295-00	SHORT	0
R167	1-216-043-91	RES,CHIP	560 5% 1/10W	R224	1-216-039-00	RES,CHIP	390 5% 1/10W
R168	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R225	1-216-089-00	RES,CHIP	47K 5% 1/10W
R169	1-216-049-00	RES,CHIP	1K 5% 1/10W	R226	1-216-033-00	RES,CHIP	220 5% 1/10W
R170	1-216-025-00	RES,CHIP	100 5% 1/10W	R227	1-216-022-00	RES,CHIP	75 5% 1/10W
R171	1-216-097-00	RES,CHIP	100K 5% 1/10W	R228	1-216-022-00	RES,CHIP	75 5% 1/10W
R172	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R229	1-216-033-00	RES,CHIP	220 5% 1/10W
R173	1-216-025-00	RES,CHIP	100 5% 1/10W	R230	1-216-022-00	RES,CHIP	75 5% 1/10W
R174	1-208-797-11	METAL CHIP	4.3K 0.5% 1/10W	R232	1-216-025-00	RES,CHIP	100 5% 1/10W
R175	1-208-784-11	METAL CHIP	1.2K 0.5% 1/10W	R233	1-216-025-00	RES,CHIP	100 5% 1/10W
R176	1-216-295-00	SHORT	0	R234	1-216-113-00	RES,CHIP	470K 5% 1/10W
R177	1-216-049-00	RES,CHIP	1K 5% 1/10W	R235	1-216-025-00	RES,CHIP	100 5% 1/10W
R178	1-216-295-00	SHORT	0				



REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R236	1-216-113-00	RES,CHIP	470K	5%	1/10W	R310	1-216-033-00	RES,CHIP	220	5%	1/10W
R237	1-216-295-00	SHORT	0			R315	1-216-295-00	SHORT	0		
R238	1-216-089-00	RES,CHIP	47K	5%	1/10W	R316	1-216-033-00	RES,CHIP	220	5%	1/10W
R239	1-216-039-00	RES,CHIP	390	5%	1/10W	R320	1-216-025-00	RES,CHIP	100	5%	1/10W
R240	1-216-295-00	SHORT	0								
R241	1-216-089-00	RES,CHIP	47K	5%	1/10W	R321	1-216-025-00	RES,CHIP	100	5%	1/10W
R242	1-216-039-00	RES,CHIP	390	5%	1/10W	R322	1-216-025-00	RES,CHIP	100	5%	1/10W
R243	1-216-033-00	RES,CHIP	220	5%	1/10W	R323	1-216-033-00	RES,CHIP	220	5%	1/10W
R244	1-216-033-00	RES,CHIP	220	5%	1/10W	R325	1-216-089-91	RES,CHIP	47K	5%	1/10W
R248	1-216-025-00	RES,CHIP	100	5%	1/10W	R326	1-216-025-00	RES,CHIP	100	5%	1/10W
R249	1-216-001-00	RES,CHIP	10	5%	1/10W	R327	1-216-025-00	RES,CHIP	100	5%	1/10W
R250	1-216-033-00	RES,CHIP	220	5%	1/10W	R329	1-216-089-00	RES,CHIP	47K	5%	1/10W
R251	1-216-025-00	RES,CHIP	100	5%	1/10W	R330	1-216-025-00	RES,CHIP	100	5%	1/10W
R252	1-216-025-00	RES,CHIP	100	5%	1/10W	R331	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R253	1-216-025-00	RES,CHIP	100	5%	1/10W	R332	1-216-049-00	RES,CHIP	1K	5%	1/10W
R254	1-216-025-00	RES,CHIP	100	5%	1/10W	R333	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R255	1-216-025-00	RES,CHIP	100	5%	1/10W	R334	1-216-041-00	RES,CHIP	470	5%	1/10W
R256	1-216-025-00	RES,CHIP	100	5%	1/10W	R335	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R257	1-216-073-00	RES,CHIP	10K	5%	1/10W	R336	1-216-109-00	RES,CHIP	330K	5%	1/10W
R258	1-216-017-00	RES,CHIP	47	5%	1/10W	R337	1-216-025-00	RES,CHIP	100	5%	1/10W
R259	1-216-041-00	RES,CHIP	470	5%	1/10W	R338	1-216-049-00	RES,CHIP	1K	5%	1/10W
R264	1-216-089-91	RES,CHIP	47K	5%	1/10W	R339	1-216-049-00	RES,CHIP	1K	5%	1/10W
R265	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R340	1-216-025-00	RES,CHIP	100	5%	1/10W
R266	1-216-081-00	RES,CHIP	22K	5%	1/10W	R341	1-216-025-00	RES,CHIP	100	5%	1/10W
R267	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R342	1-216-049-00	RES,CHIP	1K	5%	1/10W
R268	1-216-089-91	RES,CHIP	47K	5%	1/10W	R343	1-216-061-91	RES,CHIP	3.3K	5%	1/10W
R269	1-216-089-91	RES,CHIP	47K	5%	1/10W	R344	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R270	1-216-022-00	RES,CHIP	75	5%	1/10W	R345	1-216-025-00	RES,CHIP	100	5%	1/10W
R271	1-216-022-00	RES,CHIP	75	5%	1/10W	R347	1-216-025-00	RES,CHIP	100	5%	1/10W
R272	1-216-022-00	RES,CHIP	75	5%	1/10W	R348	1-216-025-00	RES,CHIP	100	5%	1/10W
R273	1-216-022-00	RES,CHIP	75	5%	1/10W	R349	1-216-025-00	RES,CHIP	100	5%	1/10W
R274	1-216-089-91	RES,CHIP	47K	5%	1/10W	R350	1-216-041-00	RES,CHIP	470	5%	1/10W
R280	1-216-049-00	RES,CHIP	1K	5%	1/10W	R351	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R281	1-216-089-00	RES,CHIP	47K	5%	1/10W	R352	1-216-077-91	RES,CHIP	15K	5%	1/10W
R282	1-216-093-91	RES,CHIP	68K	5%	1/10W	R353	1-216-033-00	RES,CHIP	220	5%	1/10W
R283	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R354	1-216-295-00	SHORT	0		
R284	1-216-089-00	RES,CHIP	47K	5%	1/10W	R355	1-216-093-91	RES,CHIP	68K	5%	1/10W
R285	1-216-093-91	RES,CHIP	68K	5%	1/10W	R356	1-216-133-91	RES,CHIP	3.3M	5%	1/10W
R286	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R357	1-216-049-00	RES,CHIP	1K	5%	1/10W
R291	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R358	1-216-105-00	RES,CHIP	220K	5%	1/10W
R292	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R359	1-216-295-00	SHORT	0		
R293	1-216-089-00	RES,CHIP	47K	5%	1/10W	R360	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R294	1-216-097-00	RES,CHIP	100K	5%	1/10W	R361	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R295	1-216-049-00	RES,CHIP	1K	5%	1/10W	R370	1-216-295-00	SHORT	0		
R296	1-216-049-00	RES,CHIP	1K	5%	1/10W	R371	1-216-033-00	RES,CHIP	220	5%	1/10W
R297	1-216-033-00	RES,CHIP	220	5%	1/10W	R373	1-216-049-00	RES,CHIP	1K	5%	1/10W
R298	1-216-033-00	RES,CHIP	220	5%	1/10W	R374	1-216-041-00	RES,CHIP	470	5%	1/10W
R299	1-216-073-00	RES,CHIP	10K	5%	1/10W	R375	1-216-049-00	RES,CHIP	1K	5%	1/10W
R300	1-216-025-00	RES,CHIP	100	5%	1/10W	R376	1-216-081-00	RES,CHIP	22K	5%	1/10W
R301	1-216-033-00	RES,CHIP	220	5%	1/10W	R377	1-216-049-00	RES,CHIP	1K	5%	1/10W
R302	1-216-295-00	SHORT	0			R378	1-208-811-11	METAL CHIP	16K	0.5%	1/10W
R303	1-216-295-00	SHORT	0			R379	1-216-041-00	RES,CHIP	470	5%	1/10W
R304	1-216-129-00	RES,CHIP	2.2M	5%	1/10W	R1001	1-216-025-00	RES,CHIP	100	5%	1/10W
R305	1-216-033-00	RES,CHIP	220	5%	1/10W	R1002	1-216-025-00	RES,CHIP	100	5%	1/10W
R308	1-216-025-00	RES,CHIP	100	5%	1/10W	R1010	1-216-295-00	SHORT	0		
R309	1-216-033-00	RES,CHIP	220	5%	1/10W	R1012	1-216-041-00	RES,CHIP	470	5%	1/10W
						R1014	1-216-065-00	RES,CHIP	4.7K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1017	1-216-295-00	SHORT	0	C6029	1-164-625-11	CERAMIC	680pF 10% 500V
R1020	1-216-097-00	RES,CHIP	100K 5% 1/10W	C6030	1-104-665-11	ELECT	100μF 20% 25V
R1021	1-216-029-00	RES,CHIP	150 5% 1/10W	C6031	1-115-405-11	FILM	0.039μF 3% 1KV
R1022	1-216-029-00	RES,CHIP	150 5% 1/10W	C6033	1-101-810-00	CERAMIC	100pF 5% 500V
R1023	1-216-029-00	RES,CHIP	150 5% 1/10W	C6034	1-101-810-00	CERAMIC	100pF 5% 500V
R1024	1-216-045-00	RES,CHIP	680 5% 1/10W	C6035	1-102-114-00	CERAMIC	470pF 10% 50V
R1026	1-216-025-00	RES,CHIP	100 5% 1/10W	C6036	1-102-114-00	CERAMIC	470pF 10% 50V
R1027	1-216-025-00	RES,CHIP	100 5% 1/10W	C6037	1-126-960-11	ELECT	1μF 20% 50V
R1028	1-216-025-00	RES,CHIP	100 5% 1/10W	C6038	1-126-768-11	ELECT	2200μF 20% 16V
<TUNER>				C6039	1-102-114-00	CERAMIC	470pF 10% 50V
TU101 Δ 1-693-340-14 TUNER/VIF				C6040	1-102-114-00	CERAMIC	470pF 10% 50V
<CRYSTAL>				C6041	1-126-972-11	ELECT	1000μF 20% 50V
X1	1-767-154-21	VIBRATOR, CERAMIC (11.5MHz)		C6042	1-126-972-11	ELECT	1000μF 20% 50V
X201	1-760-628-11	VIBRATOR, CRYSTAL (18.432MHz)		C6043	1-104-665-11	ELECT	100μF 20% 25V
X301	1-567-504-11	OSCILLATOR, CRYSTAL (4.43MHz)		C6044	1-107-641-11	ELECT	220μF 20% 160V
X302	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)		C6045	1-109-954-11	ELECT	0.47μF 20% 160V
X303	1-767-127-11	VIBRATOR, CERAMIC (500kHz)		C6046	1-102-114-00	CERAMIC	470pF 10% 50V
X1001	1-579-965-21	VIBRATOR, CRYSTAL (20.48MHz)		C6047	1-102-114-00	CERAMIC	470pF 10% 50V
*****				C6048	1-126-943-11	ELECT	2200μF 20% 25V
* A-1637-023-AG BOARD, COMPLETE				C6049	1-128-548-11	ELECT	4700μF 20% 25V
*****				C6050	1-126-935-11	ELECT	470μF 20% 6.3V
* 4-374-846-01 COVER, CAPACITOR, CAP TYPE				C6051	1-126-943-11	ELECT	2200μF 20% 25V
4-382-854-11 SCREW (M3X10), P, SW (+)				C6052	1-104-665-11	ELECT	100μF 20% 25V
<CAPACITOR>				C6053	1-104-665-11	ELECT	100μF 20% 25V
C6001 Δ	1-104-706-51	MYLAR	0.22μF 20% 250V	C6054	1-104-665-11	ELECT	100μF 20% 25V
C6002	1-117-703-11	CERAMIC	0.0047μF 99% 250V	C6055	1-107-641-11	ELECT	220μF 20% 160V
C6003 Δ	1-161-830-91	CERAMIC	0.0047μF 500V	C6056	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C6004 Δ	1-104-706-11	MYLAR	0.22μF 20% 250V	<CONNECTOR>			
C6005 Δ	1-161-830-00	CERAMIC	0.0047μF 500V	CN6001	1-695-915-11	TAB (CONTACT)	
C6006 Δ	1-119-893-51	CERAMIC	1000pF 20% 250V	CN6002	1-695-915-11	TAB (CONTACT)	
C6007	1-107-678-11	ELECT	4.7μF 20% 450V	CN6003	1-695-915-11	TAB (CONTACT)	
C6008 Δ	1-161-830-91	CERAMIC	0.0047μF 500V	CN6005	1-580-843-11	PIN, CONNECTOR (POWER)	
C6009 Δ	1-161-830-91	CERAMIC	0.0047μF 500V	CN6006 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C6010 Δ	1-119-893-51	CERAMIC	1000pF 20% 250V	CN6007*	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
C6014	1-117-753-11	ELECT(BLOCK)	470μF 20% 450V	CN6008*	1-564-509-11	PLUG, CONNECTOR 6P	
C6015	1-104-664-11	ELECT	47μF 20% 25V	CN6009*	1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
C6016	1-163-009-91	CERAMIC CHIP	0.001μF 10% 50V	CN6010*	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
C6017	1-163-009-91	CERAMIC CHIP	0.001μF 10% 50V	CN6011*	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
C6018	1-136-479-11	FILM	0.001μF 2% 50V	<DIODE>			
C6019	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D6001 Δ	8-719-068-00	DIODE ERC04-06SE	
C6020	1-126-963-11	ELECT	4.7μF 20% 50V	D6002 Δ	8-719-068-00	DIODE ERC04-06SE	
C6021	1-126-964-11	ELECT	10μF 20% 50V	D6003 Δ	8-719-068-00	DIODE ERC04-06SE	
C6023	1-104-665-11	ELECT	100μF 20% 25V	D6004	8-719-988-61	DIODE 1SS355TE-17	
C6024	1-126-967-11	ELECT	47μF 20% 50V	D6005	8-719-073-23	DIODE ST02D-200TA	
C6025	1-136-165-00	FILM	0.1μF 5% 50V	D6007 Δ	8-719-510-63	DIODE D4SB60L-F	
C6026	1-126-964-11	ELECT	10μF 20% 50V	D6008	8-719-110-14	DIODE RD9.1ES-B3	
C6027	1-164-625-11	CERAMIC	680pF 10% 500V	D6009	8-719-991-33	DIODE 1SS133T-77	
				D6010	8-719-063-74	DIODE D1NL20U-TR2	
				D6011	8-719-979-64	DIODE UF4005PKG23	
				D6012	8-719-063-74	DIODE D1NL20U-TR2	
				D6013	8-719-018-83	DIODE D2S4M	
				D6014	8-719-018-83	DIODE D2S4M	
				D6015	8-719-991-33	DIODE 1SS133T-77	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D6016	8-719-052-91	DIODE D4SBS4-F		Q6002	8-729-056-60	TRANSISTOR SPA07N60C2	
D6017	8-719-312-47	DIODE RBA-406B		Q6003	8-729-140-97	TRANSISTOR 2SB734-34	
D6018	8-719-031-78	DIODE S2L40F		Q6004	8-729-922-37	TRANSISTOR 2SD2144S-UVW	
D6019	8-719-031-78	DIODE S2L40F		Q6005	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D6020	8-719-991-33	DIODE 1SS133T-77		Q6006	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
D6021	8-719-057-96	DIODE D10SC6M-4012		Q6007	8-729-820-82	TRANSISTOR 2SA1208	
D6022	8-719-921-88	DIODE MTZJ-13B		Q6008	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q6009	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<FUSE>				<RESISTOR>	
F6001	Δ 1-576-232-21	FUSE (H.B.C.) (5A/250V)		R6001	Δ 1-202-885-91	SOLID 1M 20% 1/2W	
				R6002	Δ 1-212-849-61	FUSIBLE 4.7 5% 1/4W	
		<FERRITE BEAD>		R6003	1-215-858-00	METAL OXIDE 15 5% 1W	
FB6001	Δ 1-410-397-31	FERRITE 1.1 μ H		R6005	1-216-089-91	RES-CHIP 47K 5% 1/10W	
FB6002	1-410-397-21	FERRITE 1.1 μ H		R6006	Δ 1-219-720-91	METAL 10M 5% 1W	
FB6003	Δ 1-410-397-31	FERRITE 1.1 μ H					
		<FUSE>		R6007	1-216-089-91	RES-CHIP 47K 5% 1/10W	
FH6001	*1-533-725-11	HOLDER, FUSE		R6009	1-247-791-91	CARBON 22 5% 1/4W	
		<IC>		R6010	Δ 1-220-778-11	FUSIBLE 0.1 10% 1/2W	
IC6001	Δ 8-759-468-89	IC TOP209P		R6011	1-215-444-00	METAL 9.1K 1% 1/4W	
IC6002	8-759-670-30	IC MCZ3001D		R6012	1-208-758-11	METAL CHIP 100 0.5% 1/10W	
IC6003	Δ 8-749-924-35	PHOTO COUPLER ON3171-R					
IC6004	Δ 8-749-924-35	PHOTO COUPLER ON3171-R		R6013	1-208-808-11	METAL CHIP 12K 0.5% 1/10W	
IC6005	8-749-920-61	IC SE135N		R6014	1-249-413-11	CARBON 470 5% 1/4W	
		<CHIP CONDUCTOR>		R6015	1-249-377-11	CARBON 0.47 5% 1/4W	
JR6001	1-216-864-11	SHORT 0		R6016	1-215-395-00	METAL 82 1% 1/4W	
JR6002	1-216-864-11	SHORT 0		R6017	1-215-481-00	METAL 330K 1% 1/4W	
		<COIL>					
L6003	1-412-525-31	INDUCTOR 10 μ H		R6018	1-215-481-00	METAL 330K 1% 1/4W	
L6004	1-412-525-31	INDUCTOR 10 μ H		R6019	1-216-001-00	RES-CHIP 10 5% 1/10W	
L6005	1-412-525-31	INDUCTOR 10 μ H		R6020	1-216-001-00	RES-CHIP 10 5% 1/10W	
L6006	1-412-523-41	INDUCTOR 6.8 μ H		R6021	1-215-481-00	METAL 330K 1% 1/4W	
L6007	1-412-523-41	INDUCTOR 6.8 μ H		R6022	1-249-417-11	CARBON 1K 5% 1/4W	
L6008	1-412-525-31	INDUCTOR 10 μ H					
L6009	1-412-525-31	INDUCTOR 10 μ H		R6023	1-216-073-91	RES-CHIP 10K 5% 1/10W	
L6010	1-412-525-31	INDUCTOR 10 μ H		R6024	1-216-073-91	RES-CHIP 10K 5% 1/10W	
L6011	1-412-533-21	INDUCTOR 47 μ H		R6025	1-217-625-00	METAL 0.05 10% 2W	
		<IC LINK>		R6026	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
PS6001	Δ 1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)		R6027	1-216-073-91	RES-CHIP 10K 5% 1/10W	
PS6002	Δ 1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)					
PS6003	Δ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)		R6028	1-249-417-11	CARBON 1K 5% 1/4W	
		<TRANSISTOR>		R6029	1-249-377-11	CARBON 0.47 5% 1/4W	
Q6001	8-729-056-60	TRANSISTOR SPA07N60C2		R6030	1-249-377-11	CARBON 0.47 5% 1/4W	
				R6031	1-249-377-11	CARBON 0.47 5% 1/4W	
				R6032	1-249-377-11	CARBON 0.47 5% 1/4W	
				R6033	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
				R6034	1-249-377-11	CARBON 0.47 5% 1/4W	
				R6035	1-249-377-11	CARBON 0.47 5% 1/4W	
				R6036	1-249-417-11	CARBON 1K 5% 1/4W	
				R6037	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
				R6038	1-216-073-91	RES-CHIP 10K 5% 1/10W	
				R6039	1-216-073-91	RES-CHIP 10K 5% 1/10W	
				R6040	1-216-041-00	RES-CHIP 470 5% 1/10W	
				R6041	1-216-073-91	RES-CHIP 10K 5% 1/10W	
				R6042	1-216-049-11	RES-CHIP 1K 5% 1/10W	
				R6046	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
				R6047	1-249-413-11	CARBON 470 5% 1/4W	
				R6048	1-215-477-00	METAL 220K 1% 1/4W	
				R6049	1-249-417-11	CARBON 1K 5% 1/4W	
				R6050	1-249-441-11	CARBON 100K 5% 1/4W	



REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R6051	1-216-366-00	METAL OXIDE	0.56	5%	2W	D762	8-719-991-33	DIODE 1SS133T-77			
R6052	1-215-477-00	METAL	220K	1%	1/4W	D763	8-719-991-33	DIODE 1SS133T-77			
R6053	1-249-417-11	CARBON	1K	5%	1/4W	D765	8-719-991-33	DIODE 1SS133T-77			
R6054	1-215-453-00	METAL	22K	1%	1/4W	D766	8-719-991-33	DIODE 1SS133T-77			
R6055	1-215-476-00	METAL	200K	1%	1/4W						
R6056	1-216-353-00	METAL OXIDE	2.2	5%	1W	<COIL>					
<RELAY>						L761	1-408-623-31	INDUCTOR	470μH		
RY6001△1-755-352-11 RELAY, AC POWER						L762	1-408-617-31	INDUCTOR	150μH		
<TRANSFORMER>						<TRANSISTOR>					
T6001 △ 1-433-488-11 TRANSFORMER, LINE FILTER						Q761	8-729-200-17	TRANSISTOR 2SA1091-O			
T6002 △ 1-431-732-21 TRANSFORMER, CONVERTER (SRT)						Q762	8-729-045-56	TRANSISTOR 2SC2611-15			
T6003 △ 1-429-807-12 TRANSFORMER, CONVERTER (PIT)						Q763	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
T6004 △ 1-424-861-11 COIL, CHOKE 42μH						Q764	8-729-119-76	TRANSISTOR 2SA1175-HFE			
						Q765	8-729-119-76	TRANSISTOR 2SA1175-HFE			
<THERMISTOR>						<RESISTOR>					
TH6001	1-803-586-41	THERMISTOR				R761	1-219-743-11	CARBON	100	5%	1/2W
<VARISTOR>						R762	1-260-132-11	CARBON	560K	5%	1/2W
VD6001△1-803-830-31 VARISTOR (ERZV14D621)						R763	1-216-487-11	METAL OXIDE	12K	5%	3W
*****						R764	1-216-487-11	METAL OXIDE	12K	5%	3W
* A-1638-150-ACB BOARD, COMPLETE						R765	1-247-807-31	CARBON	100	5%	1/4W
*****						R766	1-260-328-11	CARBON	1K	5%	1/2W
4-051-602-11 SHEET, RADIATION						R767	1-249-425-11	CARBON	4.7K	5%	1/4W
4-382-854-11 SCREW (M3X10), P, SW (+)						R768	1-260-133-11	CARBON	680K	5%	1/2W
<CAPACITOR>						R769	1-202-818-00	SOLID	1K	20%	1/2W
C762	1-126-964-11	ELECT	10μF	20%	50V	R770	1-249-406-11	CARBON	120	5%	1/4W
C763	1-161-754-00	CERAMIC	0.001μF	10%	2KV	R771	1-219-743-11	CARBON	100	5%	1/2W
C764	1-102-117-00	CERAMIC	820pF	10%	50V	R772	1-247-791-91	CARBON	22	5%	1/4W
C765	1-161-830-00	CERAMIC	0.0047μF		500V	R773	1-247-807-31	CARBON	100	5%	1/4W
C766	1-162-115-00	CERAMIC	330pF	10%	2KV	R776	1-249-437-11	CARBON	47K	5%	1/4W
						R777	1-215-436-00	METAL	4.3K	1%	1/4W
C767	1-107-662-11	ELECT	22μF	20%	250V	R778	1-202-814-11	SOLID	33K	20%	1/2W
C768	1-101-880-00	CERAMIC	47pF	5%	50V	R779	1-249-409-11	CARBON	220	5%	1/4W
C769	1-104-664-11	ELECT	47μF	20%	25V	R781	1-249-438-11	CARBON	56K	5%	1/4W
C772	1-104-660-91	ELECT	47μF	20%	16V	R782	1-249-433-11	CARBON	22K	5%	1/4W
<CONNECTOR>						<SPARK GAP>					
CN761	1-695-915-11	TAB (CONTACT)				SG761	1-519-422-11	GAP, SPARK			
CN762	* 1-564-508-11	PLUG, CONNECTOR 5P				SG762	1-519-422-11	GAP, SPARK			
CN763	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				SG763	1-519-422-11	GAP, SPARK			
CN764	△ 1-251-182-41	SOCKET, PICTURE TUBE				*****					
CN765	* 1-564-512-11	PLUG, CONNECTOR 9P				* A-1638-151-ACG BOARD, COMPLETE					

CN766	* 1-764-333-11	PLUG, CONNECTOR 10P				4-051-602-11 SHEET, RADIATION					
<DIODE>						4-382-854-11 SCREW (M3X10), P, SW (+)					
D761	8-719-991-33	DIODE 1SS133T-77				<CAPACITOR>					
						C733	1-161-754-00	CERAMIC	0.001μF	10%	2KV
						C734	1-102-114-00	CERAMIC	470pF	10%	50V
						C735	1-161-830-00	CERAMIC	0.0047μF		500V
						C736	1-162-115-00	CERAMIC	330pF	10%	2KV

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REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
C737	1-107-662-11	ELECT	22μF	20%	250V	* A-1638-152-ACR BOARD, COMPLETE *****					
C738	1-101-880-00	CERAMIC	47pF	5%	50V						
C739	1-104-664-11	ELECT	47μF	20%	25V	4-051-602-11 SHEET, RADIATION 4-382-854-11 SCREW (M3X10), P, SW (+)					
<CONNECTOR>						<CAPACITOR>					
CN731	1-695-915-11 TAB (CONTACT)					C702	1-102-112-00	CERAMIC	330pF	10%	50V
CN732	* 1-564-508-11 PLUG, CONNECTOR 5P					C703	1-104-664-11	ELECT	47μF	20%	25V
CN733	* 1-564-511-11 PLUG, CONNECTOR 8P					C705	1-161-754-00	CERAMIC	0.001μF	10%	2KV
CN734	* 1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P					C708	1-101-880-00	CERAMIC	47pF	5%	50V
CN735	Δ 1-251-182-41 SOCKET, PICTURE TUBE					C709	1-162-115-00	CERAMIC	330pF	10%	2KV
CN736	* 1-564-512-11 PLUG, CONNECTOR 9P					C712	1-107-662-11	ELECT	22μF	20%	250V
CN737	* 1-564-512-11 PLUG, CONNECTOR 9P					C713	1-104-660-91	ELECT	47μF	20%	16V
<DIODE>						<CONNECTOR>					
D731	8-719-991-33 DIODE 1SS133T-77					CN701	1-695-915-11 TAB (CONTACT)				
D732	8-719-991-33 DIODE 1SS133T-77					CN702	* 1-564-511-11 PLUG, CONNECTOR 8P				
D733	8-719-991-33 DIODE 1SS133T-77					CN703	* 1-564-510-11 PLUG, CONNECTOR 7P				
D735	8-719-991-33 DIODE 1SS133T-77					CN704	* 1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P				
D736	8-719-991-33 DIODE 1SS133T-77					CN705	Δ 1-251-182-41 SOCKET, PICTURE TUBE				
<COIL>						CN706	* 1-564-512-11 PLUG, CONNECTOR 9P				
L731	1-408-623-31	INDUCTOR	470μH			<DIODE>					
L732	1-408-617-31	INDUCTOR	150μH			D701	8-719-991-33 DIODE 1SS133T-77				
<TRANSISTOR>						D704	8-719-991-33 DIODE 1SS133T-77				
Q731	8-729-200-17 TRANSISTOR 2SA1091-O					D705	8-719-991-33 DIODE 1SS133T-77				
Q732	8-729-045-56 TRANSISTOR 2SC2611-15					D706	8-719-991-33 DIODE 1SS133T-77				
Q733	8-729-423-33 TRANSISTOR 2SC3311A-QRSTA					D708	8-719-991-33 DIODE 1SS133T-77				
Q734	8-729-119-76 TRANSISTOR 2SA1175-HFE					D709	8-719-109-84 DIODE RD5.1ESB1				
<RESISTOR>						<COIL>					
R731	1-219-743-11	CARBON	100	5%	1/2W	L701	1-410-682-31	INDUCTOR	470μH		
R732	1-260-132-11	CARBON	560K	5%	1/2W	L702	1-408-617-31	INDUCTOR	150μH		
R733	1-216-487-11	METAL OXIDE	12K	5%	3W	<TRANSISTOR>					
R734	1-216-487-11	METAL OXIDE	12K	5%	3W	Q701	8-729-200-17 TRANSISTOR 2SA1091-O				
R735	1-247-807-31	CARBON	100	5%	1/4W	Q703	8-729-045-56 TRANSISTOR 2SC2611-15				
R736	1-249-425-11	CARBON	4.7K	5%	1/4W	Q704	8-729-423-33 TRANSISTOR 2SC3311A-QRSTA				
R737	1-260-328-11	CARBON	1K	5%	1/2W	Q705	8-729-119-76 TRANSISTOR 2SA1175-HFE				
R738	1-249-406-11	CARBON	120	5%	1/4W	Q706	8-729-119-76 TRANSISTOR 2SA1175-HFE				
R739	1-260-133-11	CARBON	680K	5%	1/2W	<RESISTOR>					
R740	1-202-818-00	SOLID	1K	20%	1/2W	R701	1-219-743-11	CARBON	100	5%	1/2W
R741	1-247-791-91	CARBON	22	5%	1/4W	R704	1-260-132-11	CARBON	560K	5%	1/2W
R742	1-249-409-11	CARBON	220	5%	1/4W	R706	1-249-425-11	CARBON	4.7K	5%	1/4W
R744	1-247-891-00	CARBON	330K	5%	1/4W	R707	1-247-807-31	CARBON	100	5%	1/4W
R746	1-202-814-11	SOLID	33K	20%	1/2W	R708	1-249-408-11	CARBON	180	5%	1/4W
<SPARK GAP>						R709	1-260-328-11	CARBON	1K	5%	1/2W
SG731	1-519-422-11 GAP, SPARK					R710	1-247-791-91	CARBON	22	5%	1/4W
SG732	1-519-422-11 GAP, SPARK										
SG733	1-519-422-11 GAP, SPARK										



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R711	1-216-487-11	METAL OXIDE 12K	5% 3W	C1602	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
R712	1-216-487-11	METAL OXIDE 12K	5% 3W	C1603	1-130-495-00	MYLAR 0.1μF	5% 50V
R714	1-202-818-00	SOLID 1K	20% 1/2W	C1604	1-130-495-00	MYLAR 0.1μF	5% 50V
R715	1-260-133-11	CARBON 680K	5% 1/2W	C1605	1-107-715-11	ELECT 22μF	20% 50V
R716	1-249-409-11	CARBON 220	5% 1/4W	C1606	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V
R717	1-249-435-11	CARBON 33K	5% 1/4W	C1607	1-137-150-11	MYLAR 0.01μF	5% 50V
R718	1-249-437-11	CARBON 47K	5% 1/4W	C1608	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
R719	1-219-743-11	CARBON 100	5% 1/2W				(41PX1/41PX1K)
R721	1-202-814-11	SOLID 33K	20% 1/2W	C1609	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
R722	1-249-433-11	CARBON 22K	5% 1/4W				(41PX1/41PX1K)
R723	1-249-437-11	CARBON 47K	5% 1/4W	C1610	1-126-960-11	ELECT 1μF	20% 50V
<SPARK GAP>				C1611	1-126-960-11	ELECT 1μF	20% 50V
SG701	1-519-422-11	GAP, SPARK		C1612	1-126-960-11	ELECT 1μF	20% 50V
SG702	1-519-422-11	GAP, SPARK		C1613	1-126-967-11	ELECT 47μF	20% 50V
SG703	1-519-422-11	GAP, SPARK		C1614	1-126-967-11	ELECT 47μF	20% 50V
*****				C1617	1-130-495-00	MYLAR 0.1μF	5% 50V
* A-1346-678-AD BOARD, COMPLETE (41PX1R)				C1618	1-130-495-00	MYLAR 0.1μF	5% 50V
* A-1642-284-AD BOARD, COMPLETE (41PX1/41PX1K)				C1619	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
*****				C1621	1-104-665-11	ELECT 100μF	20% 25V
4-201-023-01 SPACER, INSULATING				C1622	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V
4-202-373-01 SPRING, IC				C1624	1-130-495-00	MYLAR 0.1μF	5% 50V
4-382-854-11 SCREW (M3X10), P, SW (+)				C1626	1-130-495-00	MYLAR 0.1μF	5% 50V
<CAPACITOR>				C1627	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V
C1501	1-163-005-91	CERAMIC CHIP 470pF	10% 50V	C1628	1-126-964-11	ELECT 10μF	20% 50V
C1503	1-137-399-11	MYLAR 0.1μF	5% 100V	C1630	1-128-550-21	ELECT 2200μF	20% 50V
C1504	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V	C1631	1-128-550-21	ELECT 2200μF	20% 50V
C1506	1-126-969-11	ELECT 220μF	20% 50V	C1632	1-104-664-11	ELECT 47μF	20% 25V
C1507	1-163-243-11	CERAMIC CHIP 47pF	5% 50V	C1633	1-104-664-11	ELECT 47μF	20% 25V
C1508	1-137-401-11	MYLAR 0.22μF	10% 100V	C1634	1-126-961-11	ELECT 2.2μF	20% 50V
C1509	1-163-251-11	CERAMIC CHIP 100pF	5% 50V	C1635	1-104-666-11	ELECT 220μF	20% 25V
C1510	1-126-972-11	ELECT 1000μF	20% 50V	C1650	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C1511	1-126-972-11	ELECT 1000μF	20% 50V	C1651	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C1512	1-126-960-11	ELECT 1μF	20% 50V	C1661	1-136-165-00	FILM 0.1μF	5% 50V
C1513	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V				(41PX1/41PX1K)
C1514	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V	C1701	1-126-960-11	ELECT 1μF	20% 50V
C1516	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C1702	1-126-960-11	ELECT 1μF	20% 50V
C1517	1-126-964-11	ELECT 10μF	20% 50V	C1703	1-126-964-11	ELECT 10μF	20% 50V
C1518	1-126-933-11	ELECT 100μF	20% 16V	C1704	1-126-964-11	ELECT 10μF	20% 50V
C1519	1-126-933-11	ELECT 100μF	20% 16V	C1705	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C1520	1-126-964-11	ELECT 10μF	20% 50V	C1706	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C1521	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V	C1707	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V
C1523	1-163-243-11	CERAMIC CHIP 47pF	5% 50V	C1708	1-126-935-11	ELECT 470μF	20% 16V
C1524	1-136-177-00	FILM 1μF	5% 50V	C1709	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V
C1525	1-104-665-11	ELECT 100μF	20% 25V	C1710	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C1526	1-104-664-11	ELECT 47μF	20% 25V	C1711	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C1527	1-163-145-00	CERAMIC CHIP 0.0015μF	5% 50V	C1715	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V
C1528	1-163-145-00	CERAMIC CHIP 0.0015μF	5% 50V	C1716	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V
C1529	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V	C1717	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V
C1530	1-104-660-91	ELECT 47μF	20% 16V	C1718	1-126-968-11	ELECT 100μF	20% 50V
C1531	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V	C1719	1-126-968-11	ELECT 100μF	20% 50V
C1532	1-126-960-11	ELECT 1μF	20% 50V	C1720	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V
C1601	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V	C1721	1-164-232-11	CERAMIC CHIP 0.01μF	10% 50V
				C1723	1-163-235-11	CERAMIC CHIP 22pF	5% 50V
				C1724	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
				C1725	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
				C1726	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1727	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	CN1804 *	1-564-508-11	PLUG, CONNECTOR 5P	
C1802	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	CN1805 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
C1803	1-126-935-11	ELECT	470μF 20% 16V	CN1806 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
C1804	1-126-964-11	ELECT	10μF 20% 50V	CN1807 *	1-564-511-11	PLUG, CONNECTOR 8P (41PX1R)	
C1805	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	CN1805 *	1-564-510-11	PLUG, CONNECTOR 7P (41PX1R)	
C1806	1-104-665-11	ELECT	100μF 20% 25V				
C1807	1-126-964-11	ELECT	10μF 20% 50V				
C1808	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V			<DIODE>	
C1809	1-104-665-11	ELECT	100μF 20% 25V	D1501	8-719-109-89	DIODE RD5.6ESB2	
C1810	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	D1502	8-719-908-03	DIODE GP08D	
C1811	1-104-665-11	ELECT	100μF 20% 25V	D1503	8-719-908-03	DIODE GP08D	
C1812	1-126-964-11	ELECT	10μF 20% 50V	D1504	8-719-991-33	DIODE 1SS133T-77	
C1813	1-104-666-11	ELECT	220μF 20% 25V	D1505	8-719-988-61	DIODE 1SS355TE-17	
C1814	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D1601	8-719-991-33	DIODE 1SS133T-77	
C1815	1-104-666-11	ELECT	220μF 20% 25V	D1602	8-719-914-43	DIODE DAN202K	
C1816	1-126-964-11	ELECT	10μF 20% 50V	D1603	8-719-991-33	DIODE 1SS133T-77	
C1817	1-126-964-11	ELECT	10μF 20% 50V (41PX1R)	D1604	8-719-991-33	DIODE 1SS133T-77	
C1818	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V (41PX1R)	D1605	8-719-914-43	DIODE DAN202K	
C1819	1-163-133-00	CERAMIC CHIP	470pF 5% 50V (41PX1R)	D1606	8-719-991-33	DIODE 1SS133T-77	
C1820	1-163-133-00	CERAMIC CHIP	470pF 5% 50V (41PX1R)	D1607	8-719-914-43	DIODE DAN202K	
C1821	1-126-964-11	ELECT	10μF 20% 50V	D1611	8-719-921-86	DIODE MTZJ-13	
C1822	1-164-005-11	CERAMIC CHIP	0.47μF 25V (41PX1R)	D1612	8-719-991-33	DIODE 1SS133T-77	
C1822	1-216-295-91	SHORT	0 (41PX1/41PX1K)	D1613	8-719-921-86	DIODE MTZJ-13	
C1823	1-163-251-11	CERAMIC CHIP	100pF 5% 50V (41PX1R)	D1614	8-719-991-33	DIODE 1SS133T-77	
C1824	1-164-005-11	CERAMIC CHIP	0.47μF 25V (41PX1R)	D1615	8-719-991-33	DIODE 1SS133T-77	
C1824	1-216-295-91	SHORT	0 (41PX1/41PX1K)	D1616	8-719-991-33	DIODE 1SS133T-77	
C1825	1-163-251-11	CERAMIC CHIP	100pF 5% 50V (41PX1R)	D1617	8-719-403-00	DIODE MA3240-TX	
C1826	1-104-665-11	ELECT	100μF 20% 25V	D1618	8-719-991-33	DIODE 1SS133T-77	
C1827	1-104-664-11	ELECT	47μF 20% 25V	D1619	8-719-991-33	DIODE 1SS133T-77	
C1828	1-104-664-11	ELECT	47μF 20% 25V	D1620	8-719-403-00	DIODE MA3240-TX	
C1829	1-104-664-11	ELECT	47μF 20% 25V	D1621	8-719-403-00	DIODE MA3240-TX	
C1830	1-126-964-11	ELECT	10μF 20% 50V	D1622	8-719-403-00	DIODE MA3240-TX	
C1831	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D1703	8-719-109-89	DIODE RD5.6ESB2	
				D1704	8-719-109-89	DIODE RD5.6ESB2	
				D1705	8-719-109-84	DIODE RD5.1ESB1	
				D1706	8-719-109-84	DIODE RD5.1ESB1	
				D1707	8-719-109-84	DIODE RD5.1ESB1	
				D1708	8-719-109-84	DIODE RD5.1ESB1	
				D1709	8-719-109-81	DIODE RD4.7ESB2	
				D1710	8-719-109-81	DIODE RD4.7ESB2	
				D1711	8-719-109-81	DIODE RD4.7ESB2	
				D1712	8-719-109-81	DIODE RD4.7ESB2	
				D1801	8-719-923-60	DIODE MTZJ-T-77-9.1A	
				D1802	8-719-923-60	DIODE MTZJ-T-77-9.1A	
				D1803	8-719-108-12	DIODE RD9.1EW (41PX1R)	
				D1804	8-719-923-60	DIODE MTZJ-T-77-9.1A	
				D1805	8-719-108-12	DIODE RD9.1EW (41PX1R)	
				D1806	8-719-923-60	DIODE MTZJ-T-77-9.1A	
						<IC>	
				IC1501	8-759-192-71	IC STV9379	
				IC1502	8-759-251-31	IC CA0007AM	
				IC1503	8-759-998-98	IC LM358D	
				IC1602	8-759-250-68	IC TDA7264	
				IC1603	8-759-502-21	IC TDA2822M	
CN1501 *	1-564-506-11	PLUG, CONNECTOR 3P					
CN1502	1-695-915-11	TAB (CONTACT)					
CN1601 *	1-564-508-11	PLUG, CONNECTOR 5P					
CN1604 *	1-564-507-11	PLUG, CONNECTOR 4P					
CN1605 *	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P					
CN1606 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P					
CN1701 *	1-564-511-11	PLUG, CONNECTOR 8P					
CN1702 *	1-564-516-11	PLUG, CONNECTOR 13P					
CN1703 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P					
CN1705 *	1-564-505-31	PLUG, CONNECTOR 2P					
CN1708 *	1-564-510-11	PLUG, CONNECTOR 7P					
CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P					
CN1802 *	1-764-334-11	PLUG, CONNECTOR 11P					
CN1803 *	1-764-333-11	PLUG, CONNECTOR 10P					



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1701	8-752-908-27	IC CXP86213-003S		Q1612	8-729-027-56	TRANSISTOR DTC143TKA-T146	
IC1702	8-759-675-64	IC M24C08-MN6T (A)		Q1613	8-729-027-56	TRANSISTOR DTC143TKA-T146	
IC1703	8-759-467-94	IC LM358D		Q1614	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC1704	8-759-467-94	IC LM358D		Q1615	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1706	8-759-352-91	IC PST9143NL		Q1616	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q1617	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC1801	8-759-390-57	IC LM2940CT-5.0		Q1701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1802	8-759-095-63	IC PQ09RF2		Q1702	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1803	8-759-231-58	IC TA7812S		Q1703	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1804	8-759-069-28	IC PQ05RF11		Q1704	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC1805	8-759-467-94	IC LM358D (41PX1R)		Q1705	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
	<JACK>			Q1706	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
J1601	1-784-653-11	JACK, PHONO 2P (AUDIO OUT)		Q1707	1-801-806-11	TRANSISTOR DTC144EKA-T146	
	<CHIP CONDUCTOR>			Q1708	8-729-027-38	TRANSISTOR DTA144EKA-T146	
JR1502	1-216-295-91	SHORT 0		Q1709	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1503	1-216-295-91	SHORT 0		Q1710	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1504	1-216-295-91	SHORT 0		Q1711	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1505	1-216-295-91	SHORT 0		Q1801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1506	1-216-295-91	SHORT 0		Q1802	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1508	1-216-295-91	SHORT 0		Q1803	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1510	1-216-295-91	SHORT 0		Q1804	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1511	1-216-295-91	SHORT 0		Q1805	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1512	1-216-295-91	SHORT 0		Q1806	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1513	1-216-295-91	SHORT 0		Q1807	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1514	1-216-295-91	SHORT 0		Q1808	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
JR1701	1-216-295-91	SHORT 0		Q1809	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
	<COIL>				<RESISTOR>		
L1501	1-412-524-11	INDUCTOR 8.2μH		R1501	1-216-353-00	METAL OXIDE 2.2 5% 1W	
L1601	1-402-711-11	INDUCTOR 0μH		R1502	1-208-802-11	METAL CHIP 6.8K 0.5% 1/10W	
L1602	1-402-711-11	INDUCTOR 0μH		R1504	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
L1701	1-408-603-31	INDUCTOR 10μH		R1505	1-249-377-11	CARBON 0.47 5% 1/4W	
L1702	1-408-598-31	INDUCTOR 3.9μH		R1506	1-215-888-00	METAL OXIDE 220 5% 2W	
L1801	1-408-603-31	INDUCTOR 10μH (41PX1R)		R1507	1-216-081-00	RES-CHIP 22K 5% 1/10W	
L1802	1-408-603-31	INDUCTOR 10μH (41PX1/41PX1K)		R1508	1-249-383-11	CARBON 1.5 5% 1/4W	
	<TRANSISTOR>			R1509	1-208-800-11	METAL CHIP 5.6K 0.5% 1/10W	(41PX1/41PX1K)
Q1501	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1509	1-208-802-11	METAL CHIP 6.8K 0.5% 1/10W	(41PX1R)
Q1502	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R1510	1-208-806-11	METAL CHIP 10K 0.5% 1/10W	
Q1503	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1511	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q1505	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1512	1-216-085-91	RES-CHIP 33K 5% 1/10W	
Q1601	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1513	1-216-049-00	RES-CHIP 1K 5% 1/10W	
Q1602	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1514	1-216-073-00	RES-CHIP 10K 5% 1/10W	
Q1603	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1515	1-216-073-00	RES-CHIP 10K 5% 1/10W	
Q1604	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1516	1-216-073-00	RES-CHIP 10K 5% 1/10W	
Q1605	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1517	1-216-081-00	RES-CHIP 22K 5% 1/10W	
Q1607	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1518	1-216-353-00	METAL OXIDE 2.2 5% 1W	
Q1608	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1519	1-216-073-00	RES-CHIP 10K 5% 1/10W	
Q1609	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1520	1-216-089-00	RES-CHIP 47K 5% 1/10W	
Q1610	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R1521	1-216-097-00	RES-CHIP 100K 5% 1/10W	
Q1611	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1522	1-216-089-91	RES-CHIP 47K 5% 1/10W	
				R1525	1-216-083-00	RES-CHIP 27K 5% 1/10W	
				R1526	1-216-083-00	RES-CHIP 27K 5% 1/10W	
				R1527	1-216-121-11	RES-CHIP 1M 5% 1/10W	(41PX1R)



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1527	1-216-129-00	RES-CHIP	2.2M 5% 1/10W (41PX1/41PX1K)	R1645	1-216-041-00	RES-CHIP	470 5% 1/10W
R1528	1-216-121-11	RES-CHIP	1M 5% 1/10W (41PX1R)	R1648	1-249-381-11	CARBON	1 5% 1/4W
R1528	1-216-129-00	RES-CHIP	2.2M 5% 1/10W (41PX1/41PX1K)	R1649	1-216-089-00	RES-CHIP	47K 5% 1/10W
R1529	1-216-025-00	RES-CHIP	100 5% 1/10W	R1650	1-216-033-00	RES-CHIP	220 5% 1/10W
R1530	1-216-097-00	RES-CHIP	100K 5% 1/10W	R1651	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1531	1-216-089-00	RES-CHIP	47K 5% 1/10W	R1652	1-216-099-00	RES-CHIP	120K 5% 1/10W
R1532	1-216-025-00	RES-CHIP	100 5% 1/10W	R1653	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1533	1-249-377-11	CARBON	0.47 5% 1/4W	R1654	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1534	1-216-089-91	RES-CHIP	47K 5% 1/10W	R1655	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1537	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1656	1-216-295-00	SHORT	0 (41PX1R)
R1538	1-216-083-00	RES-CHIP	27K 5% 1/10W	R1701	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
R1539	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1702	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
R1540	1-216-091-00	RES-CHIP	56K 5% 1/10W	R1703	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
R1541	1-216-091-00	RES-CHIP	56K 5% 1/10W	R1704	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
R1542	1-216-093-91	RES-CHIP	68K 5% 1/10W	R1705	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
R1543	1-216-093-91	RES-CHIP	68K 5% 1/10W	R1706	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
R1544	1-215-421-00	METAL	1K 1% 1/4W (41PX1/41PX1K)	R1707	1-216-025-00	RES-CHIP	100 5% 1/10W
R1601	1-216-025-00	RES-CHIP	100 5% 1/10W (41PX1R)	R1708	1-216-025-00	RES-CHIP	100 5% 1/10W
R1602	1-216-041-00	RES-CHIP	470 5% 1/10W	R1709	1-216-025-00	RES-CHIP	100 5% 1/10W
R1603	1-216-041-00	RES-CHIP	470 5% 1/10W	R1710	1-216-049-00	RES-CHIP	1K 5% 1/10W
R1604	1-216-113-00	RES-CHIP	470K 5% 1/10W	R1711	1-216-089-00	RES-CHIP	47K 5% 1/10W
R1605	1-216-113-00	RES-CHIP	470K 5% 1/10W	R1712	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1606	1-249-397-11	CARBON	22 5% 1/4W	R1713	1-216-089-00	RES-CHIP	47K 5% 1/10W
R1607	1-249-397-11	CARBON	22 5% 1/4W	R1714	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1608	1-249-425-11	CARBON	4.7K 5% 1/4W	R1715	1-216-089-00	RES-CHIP	47K 5% 1/10W
R1609	1-216-081-00	RES-CHIP	22K 5% 1/10W	R1716	1-216-033-00	RES-CHIP	220 5% 1/10W
R1610	1-216-081-00	RES-CHIP	22K 5% 1/10W	R1717	1-216-089-00	RES-CHIP	47K 5% 1/10W
R1611	1-249-425-11	CARBON	4.7K 5% 1/4W	R1718	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1614	1-216-357-00	METAL OXIDE	4.7 5% 1W	R1719	1-216-033-00	RES-CHIP	220 5% 1/10W
R1615	1-216-357-00	METAL OXIDE	4.7 5% 1W	R1720	1-216-033-00	RES-CHIP	220 5% 1/10W
R1617	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R1721	1-216-033-00	RES-CHIP	220 5% 1/10W
R1618	1-216-081-00	RES-CHIP	22K 5% 1/10W	R1722	1-216-033-00	RES-CHIP	220 5% 1/10W
R1620	1-216-065-00	RES-CHIP	4.7K 5% 1/10W	R1725	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
R1625	1-216-061-91	RES-CHIP	3.3K 5% 1/10W	R1726	1-216-295-91	SHORT	0
R1626	1-216-061-91	RES-CHIP	3.3K 5% 1/10W	R1727	1-216-033-00	RES-CHIP	220 5% 1/10W
R1629	1-216-049-00	RES-CHIP	1K 5% 1/10W	R1728	1-216-025-00	RES-CHIP	100 5% 1/10W
R1630	1-216-081-00	RES-CHIP	22K 5% 1/10W	R1729	1-216-025-00	RES-CHIP	100 5% 1/10W
R1631	1-249-389-11	CARBON	4.7 5% 1/4W	R1730	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1632	1-216-089-91	RES-CHIP	47K 5% 1/10W	R1731	1-216-033-00	RES-CHIP	220 5% 1/10W
R1633	1-216-089-91	RES-CHIP	47K 5% 1/10W	R1732	1-216-049-00	RES-CHIP	1K 5% 1/10W
R1634	1-216-081-00	RES-CHIP	22K 5% 1/10W	R1733	1-216-049-00	RES-CHIP	1K 5% 1/10W
R1635	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1734	1-216-049-00	RES-CHIP	1K 5% 1/10W
R1636	1-216-075-00	RES-CHIP	12K 5% 1/10W	R1735	1-216-089-00	RES-CHIP	47K 5% 1/10W
R1637	1-216-049-00	RES-CHIP	1K 5% 1/10W	R1736	1-216-033-00	RES-CHIP	220 5% 1/10W
R1638	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1737	1-216-033-00	RES-CHIP	220 5% 1/10W
R1639	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1738	1-216-025-00	RES-CHIP	100 5% 1/10W
R1640	1-216-025-00	RES-CHIP	100 5% 1/10W	R1739	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1641	1-216-065-00	RES-CHIP	4.7K 5% 1/10W	R1740	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1642	1-216-049-00	RES-CHIP	1K 5% 1/10W	R1741	1-216-033-00	RES-CHIP	220 5% 1/10W
R1643	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1742	1-216-033-00	RES-CHIP	220 5% 1/10W
R1644	1-216-075-00	RES-CHIP	12K 5% 1/10W	R1743	1-216-025-00	RES-CHIP	100 5% 1/10W
				R1744	1-216-033-00	RES-CHIP	220 5% 1/10W
				R1745	1-216-073-00	RES-CHIP	10K 5% 1/10W
				R1746	1-216-025-00	RES-CHIP	100 5% 1/10W
				R1747	1-216-025-00	RES-CHIP	100 5% 1/10W
				R1748	1-216-025-00	RES-CHIP	100 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1749	1-216-033-00	RES-CHIP	220 5% 1/10W	R1807	1-216-295-91	SHORT	0 (41PX1/41PX1K)
R1750	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1808	1-216-059-00	RES-CHIP	2.7K 5% 1/10W (41PX1R)
R1751	1-216-033-00	RES-CHIP	220 5% 1/10W	R1808	1-216-295-91	SHORT	0 (41PX1/41PX1K)
R1752	1-216-025-00	RES-CHIP	100 5% 1/10W	R1809	1-216-097-00	RES-CHIP	100K 5% 1/10W
R1753	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1810	1-216-021-00	RES-CHIP	68 5% 1/10W (41PX1/41PX1K)
R1754	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1810	1-216-023-00	RES-CHIP	82 5% 1/10W (41PX1R)
R1755	1-216-025-00	RES-CHIP	100 5% 1/10W	R1811	1-216-025-00	RES-CHIP	100 5% 1/10W
R1756	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1812	1-216-025-00	RES-CHIP	100 5% 1/10W
R1757	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1813	1-216-049-00	RES-CHIP	1K 5% 1/10W
R1758	1-216-025-00	RES-CHIP	100 5% 1/10W	R1814	1-216-023-00	RES-CHIP	82 5% 1/10W
R1759	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1815	1-216-025-00	RES-CHIP	100 5% 1/10W
R1760	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1816	1-216-025-00	RES-CHIP	100 5% 1/10W
R1762	1-216-063-91	RES-CHIP	3.9K 5% 1/10W (41PX1/41PX1K)	R1817	1-216-025-00	RES-CHIP	100 5% 1/10W
R1762	1-216-065-00	RES-CHIP	4.7K 5% 1/10W (41PX1R)	R1818	1-216-059-00	RES-CHIP	2.7K 5% 1/10W
R1763	1-208-797-11	METAL CHIP	4.3K 0.5% 1/10W (41PX1R)	R1819	1-216-059-00	RES-CHIP	2.7K 5% 1/10W (41PX1R)
R1763	1-216-061-91	RES-CHIP	3.3K 5% 1/10W (41PX1/41PX1K)	R1819	1-216-295-91	SHORT	0 (41PX1/41PX1K)
R1764	1-216-063-91	RES-CHIP	3.9K 5% 1/10W (41PX1/41PX1K)	R1820	1-216-059-00	RES-CHIP	2.7K 5% 1/10W (41PX1R)
R1764	1-216-065-00	RES-CHIP	4.7K 5% 1/10W (41PX1R)	R1820	1-216-295-91	SHORT	0 (41PX1/41PX1K)
R1765	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1821	1-216-025-00	RES-CHIP	100 5% 1/10W
R1766	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1822	1-216-089-00	RES-CHIP	47K 5% 1/10W (41PX1R)
R1767	1-216-113-00	RES-CHIP	470K 5% 1/10W	R1823	1-216-089-00	RES-CHIP	47K 5% 1/10W (41PX1R)
R1768	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1824	1-216-089-00	RES-CHIP	47K 5% 1/10W (41PX1R)
R1769	1-216-115-00	RES-CHIP	560K 5% 1/10W	R1824	1-216-295-91	SHORT	0 (41PX1/41PX1K)
R1770	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1825	1-216-089-00	RES-CHIP	47K 5% 1/10W (41PX1R)
R1771	1-216-113-00	RES-CHIP	470K 5% 1/10W	R1825	1-216-295-91	SHORT	0 (41PX1/41PX1K)
R1772	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1826	1-216-089-00	RES-CHIP	47K 5% 1/10W (41PX1R)
R1773	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1826	1-216-295-91	SHORT	0 (41PX1/41PX1K)
R1774	1-216-025-00	RES-CHIP	100 5% 1/10W	R1827	1-216-089-00	RES-CHIP	47K 5% 1/10W (41PX1R)
R1775	1-216-115-00	RES-CHIP	560K 5% 1/10W	R1828	1-216-089-00	RES-CHIP	47K 5% 1/10W (41PX1R)
R1778	1-216-049-11	RES-CHIP	1K 5% 1/10W	R1829	1-216-089-00	RES-CHIP	47K 5% 1/10W (41PX1R)
R1786	1-216-025-00	RES-CHIP	100 5% 1/10W	R1829	1-216-295-91	SHORT	0 (41PX1/41PX1K)
R1787	1-216-025-00	RES-CHIP	100 5% 1/10W	R1830	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1788	1-216-025-00	RES-CHIP	100 5% 1/10W	R1831	1-216-063-91	RES-CHIP	3.9K 5% 1/10W
R1789	1-216-049-00	RES-CHIP	1K 5% 1/10W	R1832	1-216-049-00	RES-CHIP	1K 5% 1/10W (41PX1R)
R1790	1-216-025-00	RES-CHIP	100 5% 1/10W	R1832	1-216-051-00	RES-CHIP	1.2K 5% 1/10W (41PX1/41PX1K)
R1791	1-216-025-00	RES-CHIP	100 5% 1/10W	R1833	1-216-041-00	RES-CHIP	470 5% 1/10W
R1792	1-216-089-00	RES-CHIP	47K 5% 1/10W	R1834	1-216-049-00	RES-CHIP	1K 5% 1/10W
R1793	1-216-089-00	RES-CHIP	47K 5% 1/10W	R1835	1-216-049-00	RES-CHIP	1K 5% 1/10W
R1794	1-216-089-00	RES-CHIP	47K 5% 1/10W	R1836	1-216-049-00	RES-CHIP	1K 5% 1/10W
R1795	1-216-089-00	RES-CHIP	47K 5% 1/10W	R1837	1-216-049-00	RES-CHIP	1K 5% 1/10W
R1802	1-215-925-11	METAL OXIDE	22K 5% 3W	R1838	1-216-041-00	RES-CHIP	470 5% 1/10W
R1803	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1839	1-216-049-00	RES-CHIP	1K 5% 1/10W
R1804	1-216-113-00	RES-CHIP	470K 5% 1/10W (41PX1R)	R1840	1-216-049-00	RES-CHIP	1K 5% 1/10W
R1805	1-216-113-00	RES-CHIP	470K 5% 1/10W (41PX1R)				
R1806	1-216-021-00	RES-CHIP	68 5% 1/10W (41PX1/41PX1K)				
R1806	1-216-023-00	RES-CHIP	82 5% 1/10W (41PX1R)				
R1807	1-216-059-00	RES-CHIP	2.7K 5% 1/10W (41PX1R)				



REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R1841	1-216-049-00	RES-CHIP	1K	5%	1/10W	C529	1-109-844-11	FILM	0.68μF	5%	250V
R1842	1-216-049-00	RES-CHIP	1K	5%	1/10W	C530	1-107-648-91	ELECT	100μF	20%	160V
R1842	1-216-051-00	RES-CHIP	1.2K	5%	1/10W (41PX1/41PX1K)	C531	1-126-971-11	ELECT	470μF	20%	50V
						C532	1-126-971-11	ELECT	470μF	20%	50V
						C533	1-107-655-11	ELECT	47μF	20%	250V
					C535	1-106-387-00	MYLAR	0.068μF	10%	200V	
R1843	1-216-041-00	RES-CHIP	470	5%	1/10W	C536	1-137-374-11	MYLAR	0.047μF	5%	50V
R1844	1-216-049-00	RES-CHIP	1K	5%	1/10W	C537	1-126-968-11	ELECT	100μF	20%	50V
R1845	1-216-049-00	RES-CHIP	1K	5%	1/10W	C538	1-126-968-11	ELECT	100μF	20%	50V
R1846	1-216-049-00	RES-CHIP	1K	5%	1/10W						
R1847	1-216-049-00	RES-CHIP	1K	5%	1/10W	C539	1-162-114-00	CERAMIC	0.0047μF		2KV
						C540	1-137-372-11	MYLAR	0.022μF	5%	50V
R1848	1-216-049-00	RES-CHIP	1K	5%	1/10W	C541	1-137-374-11	MYLAR	0.047μF	5%	50V
R1849	1-216-041-00	RES-CHIP	470	5%	1/10W	C542	1-126-934-11	ELECT	220μF	20%	16V
						C548	1-102-244-00	CERAMIC	220pF	10%	500V
<RELAY>						C550	1-126-935-11	ELECT	470μF	20%	16V
						C551	1-126-935-11	ELECT	470μF	20%	16V
RY1601	1-755-028-11	RELAY				C554	1-130-062-91	FILM	0.0056μF	5%	630V
RY1602	1-755-028-11	RELAY				C555	1-126-960-11	ELECT	1μF	20%	50V
						C556	1-130-495-00	MYLAR	0.1μF	5%	50V
<TERMINAL BOARD>						C701	1-126-933-11	ELECT	100μF	20%	16V
						C801	1-104-665-11	ELECT	100μF	20%	25V
TB1601	1-694-303-11	TERMINAL, PUSH (CENTER SP IN)				C802	1-104-665-11	ELECT	100μF	20%	25V
						C803	1-126-934-11	ELECT	220μF	20%	16V
						C804	1-126-934-11	ELECT	220μF	20%	16V
<CRYSTAL>						C805	1-126-934-11	ELECT	220μF	20%	16V
X1701	1-579-125-11	VIBRATOR, CERAMIC (8.0MHz)				C806	1-126-934-11	ELECT	220μF	20%	16V
*****						C807	1-137-374-11	MYLAR	0.047μF	5%	50V
						C808	1-137-374-11	MYLAR	0.047μF	5%	50V
						C809	1-137-374-11	MYLAR	0.047μF	5%	50V
						C810	1-137-374-11	MYLAR	0.047μF	5%	50V
						C811	1-102-074-00	CERAMIC	0.001μF	10%	50V
						C812	1-136-169-00	MYLAR	0.22μF	5%	50V
						C813	1-137-374-11	MYLAR	0.047μF	5%	50V
						C815	1-104-665-11	ELECT	100μF	20%	25V
<CAPACITOR>						C816	1-130-014-00	FILM	470pF	5%	50V
C502	1-126-959-11	ELECT	0.47μF	20%	50V	C817	1-104-664-11	ELECT	47μF	20%	25V
C505	1-130-471-00	MYLAR	0.001μF	5%	50V	C818	1-126-933-11	ELECT	100μF	20%	16V
C506	1-126-933-11	ELECT	100μF	20%	16V	C819	1-104-664-11	ELECT	47μF	20%	25V
C507	1-126-965-91	ELECT	22μF	20%	50V	C820	1-102-129-00	CERAMIC	0.01μF	10%	50V
C508	1-102-228-00	CERAMIC	470pF	10%	500V						
C509	1-106-383-00	MYLAR	0.047μF	10%	200V	C821	1-130-495-00	MYLAR	0.1μF	5%	50V
C511	1-130-475-00	MYLAR	0.0022μF	5%	50V	C822	1-107-648-91	ELECT	100μF	20%	160V
C512	1-136-479-11	FILM	0.001μF	5%	50V	C823	1-104-664-11	ELECT	47μF	20%	25V
C513	1-126-965-91	ELECT	22μF	20%	50V	C824	1-126-964-11	ELECT	10μF	20%	50V
C514	△ 1-162-116-91	CERAMIC	680pF	10%	2KV	C825	1-104-665-11	ELECT	100μF	20%	25V
C515	△ 1-125-831-91	FILM	0.033μF	3%	630V	C826	1-136-165-00	MYLAR	0.1μF	5%	50V
C516	△ 1-117-648-11	FILM	15000pF	3%	1.2KV	C827	1-126-964-11	ELECT	10μF	20%	50V
C518	1-130-495-00	MYLAR	0.1μF	5%	50V	C828	1-102-824-00	CERAMIC	470pF	5%	50V
C519	1-106-359-00	MYLAR	0.0047μF	10%	100V	C829	1-126-959-11	ELECT	0.47μF	20%	50V
C520	1-162-116-00	CERAMIC	680pF	10%	2KV	C830	1-102-824-00	CERAMIC	470pF	5%	50V
C521	1-162-116-00	CERAMIC	680pF	10%	2KV	C831	1-126-960-11	ELECT	1μF	20%	50V
C523	1-115-521-11	FILM	0.82μF	5%	250V	C832	1-126-960-11	ELECT	1μF	20%	50V
C524	1-106-359-00	MYLAR	0.0047μF	10%	100V	C833	1-126-960-11	ELECT	1μF	20%	50V
C526	1-102-228-00	CERAMIC	470pF	10%	500V	C834	1-126-968-11	ELECT	100μF	20%	50V
C527	1-126-970-11	ELECT	330μF	20%	50V	C835	1-126-967-11	ELECT	47μF	20%	50V
C528	1-107-957-11	ELECT	1μF	20%	250V	C836	1-136-169-00	MYLAR	0.22μF	5%	50V
						C837	1-126-963-11	ELECT	4.7μF	20%	50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C838	1-104-665-11	ELECT	100μF 20% 25V	<CONNECTOR>			
C839	1-137-374-11	MYLAR	0.047μF 5% 50V	CN501	* 1-564-513-11	PLUG, CONNECTOR 10P	
C840	1-104-665-11	ELECT	100μF 20% 25V	CN502	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C841	1-137-374-11	MYLAR	0.047μF 5% 50V	CN503	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C842	1-137-374-11	MYLAR	0.047μF 5% 50V	CN504	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C843	1-104-664-11	ELECT	47μF 20% 25V	CN505	* 1-506-371-00	PIN, CONNECTOR 2P	
C844	1-126-933-11	ELECT	100μF 20% 16V	CN506	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C845	1-126-933-11	ELECT	100μF 20% 16V	CN507	* 1-564-507-11	PLUG, CONNECTOR 4P	
C846	1-126-933-11	ELECT	100μF 20% 16V	CN508	1-695-915-11	TAB (CONTACT)	
C847	1-126-933-11	ELECT	100μF 20% 16V	CN651	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C848	1-126-933-11	ELECT	100μF 20% 16V	CN652	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C849	1-102-973-00	CERAMIC	100pF 5% 50V	CN801	* 1-564-507-11	PLUG, CONNECTOR 4P	
C850	1-102-973-00	CERAMIC	100pF 5% 50V	CN802	* 1-564-507-11	PLUG, CONNECTOR 4P	
C851	1-137-374-11	MYLAR	0.047μF 5% 50V	CN803	* 1-564-507-11	PLUG, CONNECTOR 4P	
C852	1-137-374-11	MYLAR	0.047μF 5% 50V	CN804	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
C853	1-137-374-11	MYLAR	0.047μF 5% 50V	CN805	* 1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
C854	1-126-933-11	ELECT	100μF 20% 16V	CN806	* 1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
C855	1-102-973-00	CERAMIC	100pF 5% 50V	CN807	* 1-564-509-11	PLUG, CONNECTOR 6P	
C856	1-102-973-00	CERAMIC	100pF 5% 50V	CN808	* 1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
C857	1-126-933-11	ELECT	100μF 20% 16V	CN810	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
C858	1-104-665-11	ELECT	100μF 20% 25V	<DIODE>			
C859	1-104-665-11	ELECT	100μF 20% 25V	D501	8-719-991-33	DIODE 1SS133T-77	
C860	1-126-933-11	ELECT	100μF 20% 16V	D502	8-719-991-33	DIODE 1SS133T-77	
C861	1-137-374-11	MYLAR	0.047μF 5% 50V	D503	8-719-991-33	DIODE 1SS133T-77	
C862	1-137-374-11	MYLAR	0.047μF 5% 50V	D504	8-719-921-63	DIODE MTZJ-7.5B	
C863	1-137-374-11	MYLAR	0.047μF 5% 50V	D507	8-719-302-43	DIODE EL1Z	
C864	1-126-933-11	ELECT	100μF 20% 16V	D508	8-719-900-26	DIODE ERD29-08J	
C865	1-137-366-11	MYLAR	0.0022μF 5% 50V	D509	8-719-945-80	DIODE ERC06-15S	
C866	1-136-177-00	MYLAR	1μF 5% 50V	D510	8-719-991-33	DIODE 1SS133T-77	
C867	1-104-664-11	ELECT	47μF 20% 25V	D511	8-719-302-43	DIODE EL1Z	
C868	1-164-096-11	CERAMIC	0.01μF 50V	D512	8-719-991-33	DIODE 1SS133T-77	
C869	1-130-487-00	MYLAR	0.022μF 5% 50V	D513	8-719-302-43	DIODE EL1Z	
C870	1-164-096-11	CERAMIC	0.01μF 50V	D514	8-719-908-03	DIODE GP08D	
C872	1-126-960-11	ELECT	1μF 20% 50V	D515	8-719-908-03	DIODE GP08D	
C873	1-126-964-11	ELECT	10μF 20% 50V	D517	8-719-018-82	DIODE RGP02-20EL-6394	
C874	1-104-664-11	ELECT	47μF 20% 25V	D519	8-719-991-33	DIODE 1SS133T-77	
C875	1-164-096-11	CERAMIC	0.01μF 50V	D522	8-719-991-33	DIODE 1SS133T-77	
C876	1-102-973-00	CERAMIC	100pF 5% 50V	D523	8-719-991-33	DIODE 1SS133T-77	
C877	1-102-973-00	CERAMIC	100pF 5% 50V	D524	8-719-991-33	DIODE 1SS133T-77	
C878	1-104-664-11	ELECT	47μF 20% 25V	D527	8-719-109-85	DIODE RD5.1ESB2	
C879	1-104-664-11	ELECT	47μF 20% 25V	D560	8-719-991-33	DIODE 1SS133T-77	
C880	1-104-664-11	ELECT	47μF 20% 25V	D701	8-719-109-63	DIODE RD3.0ESB2	
C881	1-102-973-00	CERAMIC	100pF 5% 50V	D702	8-719-991-33	DIODE 1SS133T-77	
C882	1-102-973-00	CERAMIC	100pF 5% 50V	D820	8-719-109-68	DIODE RD3.6ESB1	
C883	1-102-973-00	CERAMIC	100pF 5% 50V	D829	8-719-109-84	DIODE RD5.1ESB1	
C884	1-104-665-11	ELECT	100μF 20% 25V	D835	8-719-109-89	DIODE RD5.6ESB2	
C885	1-104-664-11	ELECT	47μF 20% 25V	D840	8-719-991-33	DIODE 1SS133T-77	
C886	1-102-973-00	CERAMIC	100pF 5% 50V	D842	8-719-991-33	DIODE 1SS133T-77	
C887	1-102-973-00	CERAMIC	100pF 5% 50V	D845	8-719-991-33	DIODE 1SS133T-77	
C888	1-102-973-00	CERAMIC	100pF 5% 50V	D846	8-719-991-33	DIODE 1SS133T-77	
C889	1-104-665-11	ELECT	100μF 20% 25V	<FERRITE BEAD>			
C897	1-104-665-11	ELECT	100μF 20% 25V	FB501	1-410-397-21	FERRITE	1.1μH
C898	1-164-096-11	CERAMIC	0.01μF 50V				

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

• The components identified by Δ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

KP-41PX1/41PX1K/41PX1R

RM-892

RM-892

RM-862



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<IC>					
IC501	8-759-133-90	IC μ PC339C		Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE	
IC801	8-759-327-51	IC PA0053B		Q803	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
IC802	8-759-327-51	IC PA0053B		Q804	8-729-119-76	TRANSISTOR 2SA1175-HFE	
IC803	8-759-183-37	IC CA0007AD		Q805	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
IC804	8-759-464-79	IC PM0011AS		Q806	8-729-119-76	TRANSISTOR 2SA1175-HFE	
IC805	8-759-711-28	IC NJM2058D		Q807	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
IC806	8-759-464-79	IC PM0011AS		Q808	8-729-030-02	TRANSISTOR DTC144ESA	
IC807	8-759-700-69	IC NJM79L12A		Q809	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
IC808	8-759-464-79	IC PM0011AS		Q810	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
IC809	8-749-014-37	IC STK392-150		Q811	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
IC810	8-749-014-37	IC STK392-150		Q812	8-729-119-76	TRANSISTOR 2SA1175-HFE	
IC811	8-759-981-96	IC RC4560D				<RESISTOR>	
IC812	8-759-701-56	IC NJM78M05FA		Δ R1 Δ		METAL	1% 1/4W
IC813	8-759-701-65	IC NJM79M05FA		R501	1-249-421-11	CARBON 2.2K	5% 1/4W
IC814	8-759-595-88	IC AN77L12-TA		R502	1-216-465-21	METAL OXIDE 27K	5% 2W
		<COIL>		R503	1-247-843-11	CARBON 3.3K	5% 1/4W
L502	1-410-478-11	INDUCTOR 47 μ H		R504	1-249-419-11	CARBON 1.5K	5% 1/4W
L503	1-459-111-00	INDUCTOR 10mH		R505	1-247-885-00	CARBON 180K	5% 1/4W
L505	Δ 1-416-637-11	COIL, HORIZONTAL LINEARITY		R506	1-247-883-00	CARBON 150K	5% 1/4W
L506	1-412-552-11	INDUCTOR 2.2mH		R507	1-249-422-11	CARBON 2.7K	5% 1/4W
L801	1-406-979-11	INDUCTOR 220 μ H		R508	1-260-338-51	CARBON 6.8K	5% 1/2W
L802	1-406-979-11	INDUCTOR 220 μ H		R509	1-249-437-11	CARBON 47K	5% 1/4W
L803	1-406-665-11	INDUCTOR 100 μ H		R510	1-215-918-00	METAL OXIDE 1.5K	5% 3W
		<NEON LAMP>		R511	1-215-918-00	METAL OXIDE 1.5K	5% 3W
NL501	1-519-108-99	LAMP, NEON		R512	1-215-918-00	METAL OXIDE 1.5K	5% 3W
		<IC LINK>		R513	1-247-843-11	CARBON 3.3K	5% 1/4W
PS601	Δ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)		R514	1-215-443-00	METAL 8.2K	1% 1/4W
PS602	Δ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)		R516	1-215-467-00	METAL 82K	1% 1/4W
PS603	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R517	1-215-449-00	METAL 15K	1% 1/4W
PS604	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R518	1-249-436-11	CARBON 39K	5% 1/4W
PS605	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R519	1-249-429-11	CARBON 10K	5% 1/4W
PS606	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R522	1-249-428-11	CARBON 8.2K	5% 1/4W
PS607	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R523	1-249-437-11	CARBON 47K	5% 1/4W
PS608	Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R524	1-249-425-11	CARBON 4.7K	5% 1/4W
		<TRANSISTOR>		R525	1-249-405-11	CARBON 100	5% 1/4W
Q501	8-729-119-80	TRANSISTOR 2SC2688-LK		R527	1-249-425-11	CARBON 4.7K	5% 1/4W
Q502	8-729-044-29	TRANSISTOR 2SD2539 (LBSONY-1)		R528	1-215-910-00	METAL OXIDE 68	5% 3W
Q503	8-729-119-76	TRANSISTOR 2SA1175-HFE		R529	1-215-449-00	METAL 15K	1% 1/4W
Q504	8-729-046-80	TRANSISTOR 2SC4634LS-CB11		R530	1-249-429-11	CARBON 10K	5% 1/4W
Q505	8-729-038-83	TRANSISTOR 2SK2251-01-F19		R531	1-260-326-11	CARBON 680	5% 1/2W
Q506	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R532	1-260-315-71	CARBON 82	5% 1/2W
Q507	8-729-032-61	TRANSISTOR 2SC5022-02		R533	1-214-912-00	METAL 91K	1% 1/2W
Q701	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R534	1-215-479-00	METAL 270K	1% 1/4W
Q702	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R535	1-247-887-00	CARBON 220K	5% 1/4W
Q801	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R536	1-249-377-11	CARBON 0.47	5% 1/4W
				R537	1-260-336-11	CARBON 4.7K	5% 1/2W
				R538	1-249-425-11	CARBON 4.7K	5% 1/4W
				R539	1-249-377-11	CARBON 0.47	5% 1/4W
				R540	1-249-377-11	CARBON 0.47	5% 1/4W
				R541	1-247-807-31	CARBON 100	5% 1/4W
				R542	1-215-864-00	METAL OXIDE 150	5% 1W
				R543	1-216-349-00	METAL OXIDE 1	5% 1W
				R544	1-216-864-00	METAL OXIDE 150	5% 1W
				R545	1-249-377-11	CARBON 0.47	5% 1/4W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R546	1-249-377-11	CARBON	0.47 5% 1/4W	R810	1-247-807-31	CARBON	100 5% 1/4W
R547	1-247-807-31	CARBON	100 5% 1/4W	R811	1-247-807-31	CARBON	100 5% 1/4W
R548	1-249-413-11	CARBON	470 5% 1/4W	R813	1-249-433-11	CARBON	22K 5% 1/4W
R549	1-249-431-11	CARBON	15K 5% 1/4W	R814	1-247-807-31	CARBON	100 5% 1/4W
R550	1-247-807-31	CARBON	100 5% 1/4W	R815	1-247-807-31	CARBON	100 5% 1/4W
R551	1-249-437-11	CARBON	47K 5% 1/4W	R816	1-247-807-31	CARBON	100 5% 1/4W
R552	1-247-807-31	CARBON	100 5% 1/4W	R817	1-247-807-31	CARBON	100 5% 1/4W
R553	1-247-881-00	CARBON	120K 5% 1/4W	R818	1-249-429-11	CARBON	10K 5% 1/4W
R554	1-249-405-11	CARBON	100 5% 1/4W	R819	1-247-807-31	CARBON	100 5% 1/4W
R555	1-247-807-31	CARBON	100 5% 1/4W	R820	1-249-437-11	CARBON	47K 5% 1/4W
R556	1-260-328-11	CARBON	1K 5% 1/2W	R821	1-249-431-11	CARBON	15K 5% 1/4W
R557	1-216-490-11	METAL OXIDE	39K 5% 3W	R822	1-249-417-11	CARBON	1K 5% 1/4W
R558	1-216-490-11	METAL OXIDE	39K 5% 3W	R823	1-249-417-11	CARBON	1K 5% 1/4W
R559	1-216-490-11	METAL OXIDE	39K 5% 3W	R824	1-215-462-00	METAL	51K 1% 1/4W
R562	1-202-838-00	SOLID	100K 10% 1/2W	R825	1-249-441-11	CARBON	100K 5% 1/4W
R563	1-215-447-00	METAL	12K 1% 1/4W	R826	1-215-462-00	METAL	51K 1% 1/4W
R565	1-247-807-31	CARBON	100 5% 1/4W	R827	1-216-474-11	METAL OXIDE	82 5% 3W
R567	1-216-390-11	METAL OXIDE	1.2 5% 3W	R828	1-249-426-11	CARBON	5.6K 5% 1/4W
R568	1-247-903-00	CARBON	1M 5% 1/4W	R829	1-249-426-11	CARBON	5.6K 5% 1/4W
R569	1-216-390-11	METAL OXIDE	1.2 5% 3W	R830	1-249-414-11	CARBON	560 5% 1/4W
R570	1-215-910-00	METAL OXIDE	68 5% 3W	R831	1-249-414-11	CARBON	560 5% 1/4W
R571	1-249-422-11	CARBON	2.7K 5% 1/4W	R832	1-249-441-11	CARBON	100K 5% 1/4W
R572	1-247-895-91	CARBON	470K 5% 1/4W	R833	1-216-474-11	METAL OXIDE	82 5% 3W
R573	1-249-438-11	CARBON	56K 5% 1/4W	R834	1-249-441-11	CARBON	100K 5% 1/4W
R574	1-249-435-11	CARBON	33K 5% 1/4W	R835	1-249-441-11	CARBON	100K 5% 1/4W
R576	1-247-807-31	CARBON	100 5% 1/4W	R836	1-247-807-31	CARBON	100 5% 1/4W
R577	1-249-422-11	CARBON	2.7K 5% 1/4W	R837	1-249-441-11	CARBON	100K 5% 1/4W
R578	1-215-473-00	METAL	150K 1% 1/4W	R838	1-249-421-11	CARBON	2.2K 5% 1/4W
R579	1-247-889-00	CARBON	270K 5% 1/4W	R839	1-247-807-31	CARBON	100 5% 1/4W
R580	1-249-437-11	CARBON	47K 5% 1/4W	R841	1-249-409-11	CARBON	220 5% 1/4W
R581	1-249-437-11	CARBON	47K 5% 1/4W	R842	1-247-807-31	CARBON	100 5% 1/4W
R583	1-249-428-11	CARBON	8.2K 5% 1/4W	R843	1-247-807-31	CARBON	100 5% 1/4W
R584	1-249-429-11	CARBON	10K 5% 1/4W	R844	1-247-807-31	CARBON	100 5% 1/4W
R585	1-216-490-11	METAL OXIDE	39K 5% 3W	R845	1-249-441-11	CARBON	100K 5% 1/4W
R586	1-215-892-11	METAL OXIDE	1K 5% 2W	R846	1-247-807-31	CARBON	100 5% 1/4W
R588	1-249-433-11	CARBON	22K 5% 1/4W	R847	1-215-481-00	METAL	330K 1% 1/4W
R589	1-247-887-00	CARBON	220K 5% 1/4W	R848	1-215-449-00	METAL	15K 1% 1/4W
R591	1-249-425-11	CARBON	4.7K 5% 1/4W	R850	1-215-481-00	METAL	330K 1% 1/4W
R595	1-215-464-00	METAL	62K 1% 1/4W	R851	1-247-807-31	CARBON	100 5% 1/4W
R596	1-215-473-00	METAL	150K 1% 1/4W	R852	1-247-807-31	CARBON	100 5% 1/4W
R597	1-215-464-00	METAL	62K 1% 1/4W	R853	1-247-887-00	CARBON	220K 5% 1/4W
R701	1-215-449-00	METAL	15K 1% 1/4W	R854	1-249-429-11	CARBON	10K 5% 1/4W
R702	1-249-421-11	CARBON	2.2K 5% 1/4W	R856	1-247-807-31	CARBON	100 5% 1/4W
R703	1-249-421-11	CARBON	2.2K 5% 1/4W	R857	1-247-807-31	CARBON	100 5% 1/4W
R704	1-215-457-00	METAL	33K 1% 1/4W	R858	1-215-455-00	METAL	27K 1% 1/4W
R705	1-215-457-00	METAL	33K 1% 1/4W	R859	1-215-455-00	METAL	27K 1% 1/4W
R706	1-215-457-00	METAL	33K 1% 1/4W	R860	1-215-455-00	METAL	27K 1% 1/4W
R801	1-247-807-31	CARBON	100 5% 1/4W	R861	1-215-455-00	METAL	27K 1% 1/4W
R802	1-247-807-31	CARBON	100 5% 1/4W	R862	1-215-455-00	METAL	27K 1% 1/4W
R803	1-249-430-11	CARBON	12K 5% 1/4W	R863	1-215-455-00	METAL	27K 1% 1/4W
R804	1-249-425-11	CARBON	4.7K 5% 1/4W	R865	1-249-424-11	CARBON	3.9K 5% 1/4W
R805	1-247-807-31	CARBON	100 5% 1/4W	R866	1-249-437-11	CARBON	47K 5% 1/4W
R806	1-249-429-11	CARBON	10K 5% 1/4W	R867	1-215-455-00	METAL	27K 1% 1/4W
R807	1-247-807-31	CARBON	100 5% 1/4W	R868	1-215-443-00	METAL	8.2K 1% 1/4W
R808	1-249-429-11	CARBON	10K 5% 1/4W	R869	1-249-425-11	CARBON	4.7K 5% 1/4W
R809	1-249-425-11	CARBON	4.7K 5% 1/4W	R870	1-249-437-11	CARBON	47K 5% 1/4W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R871	1-249-417-11	CARBON	1K 5% 1/4W	R931	1-215-445-00	METAL	10K 1% 1/4W
R872	1-249-425-11	CARBON	4.7K 5% 1/4W	R933	1-215-445-00	METAL	10K 1% 1/4W
R873	1-247-807-31	CARBON	100 5% 1/4W	R934	1-249-422-11	CARBON	2.7K 5% 1/4W
R874	1-249-435-11	CARBON	33K 5% 1/4W	R935	1-249-429-11	CARBON	10K 5% 1/4W
R875	1-249-441-11	CARBON	100K 5% 1/4W	R936	1-249-429-11	CARBON	10K 5% 1/4W
R877	1-249-422-11	CARBON	2.7K 5% 1/4W	R937	1-249-436-11	CARBON	39K 5% 1/4W
R878	1-215-469-00	METAL	100K 1% 1/4W	R938	1-215-421-00	METAL	1K 1% 1/4W
R879	1-215-445-00	METAL	10K 1% 1/4W	R939	1-259-878-11	CARBON	1.5M 5% 1/4W
R881	1-249-408-11	CARBON	180 5% 1/4W	R940	1-249-441-11	CARBON	100K 5% 1/4W
R882	1-249-429-11	CARBON	10K 5% 1/4W	R941	1-249-441-11	CARBON	100K 5% 1/4W
R883	1-249-429-11	CARBON	10K 5% 1/4W	R942	1-249-421-11	CARBON	2.2K 5% 1/4W
R884	1-215-445-00	METAL	10K 1% 1/4W	R943	1-249-441-11	CARBON	100K 5% 1/4W
R885	1-249-441-11	CARBON	100K 5% 1/4W	R944	1-215-421-00	METAL	1K 1% 1/4W
R886	1-249-428-11	CARBON	8.2K 5% 1/4W	R945	1-249-439-11	CARBON	68K 5% 1/4W
R887	1-247-807-31	CARBON	100 5% 1/4W	R946	1-215-421-00	METAL	1K 1% 1/4W
R888	1-247-807-31	CARBON	100 5% 1/4W	R947	1-249-441-11	CARBON	100K 5% 1/4W
R889	1-249-439-11	CARBON	68K 5% 1/4W	R948	1-249-409-11	CARBON	220 5% 1/4W
R890	1-249-441-11	CARBON	100K 5% 1/4W	R949	1-247-807-31	CARBON	100 5% 1/4W
R891	1-247-843-11	CARBON	3.3K 5% 1/4W	R950	1-247-807-31	CARBON	100 5% 1/4W
R892	1-249-425-11	CARBON	4.7K 5% 1/4W	R951	1-247-807-31	CARBON	100 5% 1/4W
R893	1-249-421-11	CARBON	2.2K 5% 1/4W	R952	1-247-807-31	CARBON	100 5% 1/4W
R894	1-215-455-00	METAL	27K 1% 1/4W	R953	1-249-435-11	CARBON	33K 5% 1/4W
R895	1-249-421-11	CARBON	2.2K 5% 1/4W	R954	1-215-433-00	METAL	3.3K 1% 1/4W
R896	1-249-441-11	CARBON	100K 5% 1/4W	R955	1-215-433-00	METAL	3.3K 1% 1/4W
R897	1-247-807-31	CARBON	100 5% 1/4W	R956	1-249-429-11	CARBON	10K 5% 1/4W
R898	1-249-409-11	CARBON	220 5% 1/4W	R957	1-214-800-11	METAL	2.2 1% 1/2W
R900	1-216-474-11	METAL OXIDE	82 5% 3W	R958	1-214-800-11	METAL	2.2 1% 1/2W
R901	1-215-449-00	METAL	15K 1% 1/4W	R959	1-215-433-00	METAL	3.3K 1% 1/4W
R902	1-215-449-00	METAL	15K 1% 1/4W	R961	1-249-425-11	CARBON	4.7K 5% 1/4W
R903	1-215-421-00	METAL	1K 1% 1/4W	R962	1-214-800-11	METAL	2.2 1% 1/2W
R904	1-214-800-11	METAL	2.2 1% 1/2W	R963	1-214-800-11	METAL	2.2 1% 1/2W
R905	1-214-800-11	METAL	2.2 1% 1/2W	R964	1-215-433-00	METAL	3.3K 1% 1/4W
R906	1-214-800-11	METAL	2.2 1% 1/2W	R965	1-215-433-00	METAL	3.3K 1% 1/4W
R908	1-215-445-00	METAL	10K 1% 1/4W	R966	1-249-409-11	CARBON	220 5% 1/4W
R909	1-215-421-00	METAL	1K 1% 1/4W	R967	1-215-455-00	METAL	27K 1% 1/4W
R910	1-215-421-00	METAL	1K 1% 1/4W	R968	1-215-455-00	METAL	27K 1% 1/4W
R911	1-215-461-00	METAL	47K 1% 1/4W	R969	1-215-455-00	METAL	27K 1% 1/4W
R912	1-215-445-00	METAL	10K 1% 1/4W	R970	1-215-455-00	METAL	27K 1% 1/4W
R913	1-215-455-00	METAL	27K 1% 1/4W	R971	1-215-455-00	METAL	27K 1% 1/4W
R914	1-215-455-00	METAL	27K 1% 1/4W	R972	1-215-455-00	METAL	27K 1% 1/4W
R915	1-215-455-00	METAL	27K 1% 1/4W	R973	1-214-800-11	METAL	2.2 1% 1/2W
R916	1-215-455-00	METAL	27K 1% 1/4W	R974	1-215-455-00	METAL	27K 1% 1/4W
R917	1-215-455-00	METAL	27K 1% 1/4W	R975	1-214-800-11	METAL	2.2 1% 1/2W
R918	1-215-455-00	METAL	27K 1% 1/4W	R976	1-215-433-00	METAL	3.3K 1% 1/4W
R919	1-249-435-11	CARBON	33K 5% 1/4W	R978	1-215-443-00	METAL	8.2K 1% 1/4W
R920	1-214-800-11	METAL	2.2 1% 1/2W	R979	1-249-425-11	CARBON	4.7K 5% 1/4W
R921	1-249-429-11	CARBON	10K 5% 1/4W	R980	1-249-409-11	CARBON	220 5% 1/4W
R922	1-215-445-00	METAL	10K 1% 1/4W	R981	1-249-409-11	CARBON	220 5% 1/4W
R923	1-249-425-11	CARBON	4.7K 5% 1/4W	R982	1-215-469-00	METAL	100K 1% 1/4W
R924	1-215-445-00	METAL	10K 1% 1/4W	R983	1-249-409-11	CARBON	220 5% 1/4W
R925	1-249-425-11	CARBON	4.7K 5% 1/4W	R984	1-215-445-00	METAL	10K 1% 1/4W
R926	1-249-408-11	CARBON	180 5% 1/4W	R985	1-249-429-11	CARBON	10K 5% 1/4W
R927	1-249-429-11	CARBON	10K 5% 1/4W	R986	1-215-449-00	METAL	15K 1% 1/4W
R928	1-249-429-11	CARBON	10K 5% 1/4W	R987	1-249-408-11	CARBON	180 5% 1/4W
R929	1-214-800-11	METAL	2.2 1% 1/2W	R988	1-249-429-11	CARBON	10K 5% 1/4W
R930	1-214-800-11	METAL	2.2 1% 1/2W	R989	1-249-425-11	CARBON	4.7K 5% 1/4W

E H1 H2

REF.NO.	PART NO.	DESCRIPTION		REMARK		REF.NO.	PART NO.	DESCRIPTION		REMARK
R990	1-249-431-11	CARBON	15K	5%	1/4W	R3002	1-216-073-91	RES-CHIP	10K	5% 1/10W
R991	1-249-429-11	CARBON	10K	5%	1/4W	R3003	1-216-041-00	RES-CHIP	470	5% 1/10W
R993	1-249-425-11	CARBON	4.7K	5%	1/4W	R3004	1-216-033-00	RES-CHIP	220	5% 1/10W
R994	1-216-474-11	METAL OXIDE	82	5%	3W	R3006	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R997	1-215-445-00	METAL	10K	1%	1/4W	R3007	1-216-059-00	RES-CHIP	2.7K	5% 1/10W
R998	1-249-425-11	CARBON	4.7K	5%	1/4W	R3010	1-216-045-00	RES-CHIP	680	5% 1/10W
R999	1-249-425-11	CARBON	4.7K	5%	1/4W					
R1901	1-249-439-11	CARBON	68K	5%	1/4W		<SWITCH>			
R1904	1-249-425-11	CARBON	4.7K	5%	1/4W	S3001	1-692-431-21	SWITCH, TACTIL (PROG -)		
	<SPARK GAP>					S3002	1-692-431-21	SWITCH, TACTIL (PROG +)		
SG501	1-519-422-11	GAP, SPARK				S3003	1-692-431-21	SWITCH, TACTIL (VOL +)		
	<TRANSFORMER>					S3004	1-692-431-21	SWITCH, TACTIL (VOL -)		
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE				S3005	1-692-431-21	SWITCH, TACTIL (TV/VIDEO)		
T502	△ 1-431-211-11	TRANSFORMER, FERRITE (PMT)				S3006	△ 1-571-433-21	SWITCH, PUSH (POWER)		
T504	△ 1-453-331-21	TRANSFORMER ASSY, FLYBACK (NX-4010//M3P4)					*****			
	*A-1646-237-AH1 BOARD, COMPLETE						* A-1646-238-AH2 BOARD, COMPLETE			
	*****						*****			
	<CAPACITOR>						<CAPACITOR>			
C3001	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C3204	1-163-037-11	CERAMIC CHIP	0.022μF	10% 50V
C3002	1-102-074-00	CERAMIC	0.001μF	10%	50V	C3205	1-163-037-11	CERAMIC CHIP	0.022μF	10% 50V
C3004	1-126-933-11	ELECT	100μF	20%	16V	C3214	1-163-017-00	CERAMIC CHIP	0.0047μF	10% 50V
C3005	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C3217	1-163-017-00	CERAMIC CHIP	0.0047μF	10% 50V
	<CONNECTOR>						<CONNECTOR>			
CN3001	* 1-564-525-11	PLUG, CONNECTOR 10P				CN3201	* 1-564-518-11	PLUG, CONNECTOR 3P		
CN3002	* 1-564-518-11	PLUG, CONNECTOR 3P				CN3202	* 1-564-526-31	PLUG, CONNECTOR 11P		
CN3003	* 1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P				CN3204	* 1-564-520-11	PLUG, CONNECTOR 5P		
CN3004	* 1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P				CN3213	1-694-564-11	TERMINAL BLOCK, S (AV4 IN)		
	<DIODE>						<DIODE>			
D3001	8-719-109-89	DIODE RD5.6ESB2				D3215	8-719-109-97	DIODE RD6.8ES-B2		
D3003	8-719-109-89	DIODE RD5.6ESB2				D3216	8-719-109-97	DIODE RD6.8ES-B2		
D3008	8-719-302-45	DIODE SEL1210S-D (STANDBY)					<JACK>			
	<IC>					J3202	1-507-806-00	JACK 1P (HEAD PHONE)		
IC3002	8-742-180-30	HYB IC SBX3081-51(30)					<CHIP CONDUCTOR>			
	<TRANSISTOR>					JR3201	1-216-864-11	SHORT	0	
Q3002	8-729-120-28	TRANSISTOR 2SC1623-L5L6				JR3202	1-216-864-11	SHORT	0	
	<RESISTOR>					JR3203	1-216-864-11	SHORT	0	
R3001	1-216-081-00	RES-CHIP	22K	5%	1/10W	JR3204	1-216-864-11	SHORT	0	
							<COIL>			
						L3201	1-408-615-31	INDUCTOR	100μH	
						L3202	1-408-615-31	INDUCTOR	100μH	
						L3203	1-408-399-00	INDUCTOR	1.5μH	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>				R4915	1-216-043-91	RES-CHIP 560 5% 1/10W	

R3207	1-208-785-11	METAL CHIP 1.3K	0.5% 1/10W	* A-1648-034-A UE BOARD, COMPLETE (41PX1R)			
R3209	1-216-033-00	RES-CHIP 220	5% 1/10W	*****			
R3210	1-216-033-00	RES-CHIP 220	5% 1/10W	<CAPACITOR>			
R3211	1-216-033-00	RES-CHIP 220	5% 1/10W	C2701	1-163-133-00	CERAMIC CHIP 470pF 5% 50V	
R3212	1-216-033-00	RES-CHIP 220	5% 1/10W	C2702	1-164-232-11	CERAMIC CHIP 0.01μF 10% 50V	
R3214	1-216-025-11	RES-CHIP 100	5% 1/10W	C2703	1-163-133-00	CERAMIC CHIP 470pF 5% 50V	
R3212	1-216-025-11	RES-CHIP 100	5% 1/10W	C2704	1-164-232-11	CERAMIC CHIP 0.01μF 10% 50V	
<SWITCH>				C2705	1-126-934-11	ELECT 220μF 20% 16V	
S3205	1-692-431-21	SWITCH, TACTIL (AUTO CONVER)		C2706	1-126-964-11	ELECT 10μF 20% 50V	
S3206	1-692-431-21	SWITCH, TACTIL (AUTO TUNE)		C2707	1-126-964-11	ELECT 10μF 20% 50V	
*****				C2708	1-126-947-11	ELECT 47μF 20% 16V	
* A-1648-033-AU BOARD, COMPLETE (41PX1/41PX1K)				C2709	1-126-964-11	ELECT 10μF 20% 50V	
*****				C2710	1-126-947-11	ELECT 47μF 20% 16V	
<CAPACITOR>				<CONNECTOR>			
C4901	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	CN2701*	1-564-522-11	PLUG, CONNECTOR 7P	
C4902	1-163-133-00	CERAMIC CHIP 470pF	5% 50V	CN2702*	1-564-523-11	PLUG, CONNECTOR 8P	
C4903	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	CN2703	1-695-549-11	SOCKET, PIN 21P	
C4904	1-163-133-00	CERAMIC CHIP 470pF	5% 50V	<DIODE>			
<CONNECTOR>				D2701	8-719-069-60	DIODE UDZSTE-179.1B	
CN4901*	1-564-522-11	PLUG, CONNECTOR 7P		D2702	8-719-069-60	DIODE UDZSTE-179.1B	
CN4902*	1-564-523-11	PLUG, CONNECTOR 8P		D2703	8-719-069-60	DIODE UDZSTE-179.1B	
<DIODE>				D2704	8-719-069-60	DIODE UDZSTE-179.1B	
D4906	8-719-069-60	DIODE UDZSTE-179.1B		D2705	8-719-069-60	DIODE UDZSTE-179.1B	
D4907	8-719-069-60	DIODE UDZSTE-179.1B		D2706	8-719-069-60	DIODE UDZSTE-179.1B	
D4908	8-719-069-60	DIODE UDZSTE-179.1B		D2707	8-719-069-60	DIODE UDZSTE-179.1B	
<JACK>				D2708	8-719-069-60	DIODE UDZSTE-179.1B	
J4901	1-695-549-11	SOCKET, PIN 21P (AV3 IN/OUT)		<RESISTOR>			
<COIL>				R2702	1-216-022-00	RES,CHIP 75 5% 1/10W	
L4900	1-412-002-31	INDUCTOR 4.7μH		R2703	1-216-033-00	RES,CHIP 220 5% 1/10W	
L4901	1-412-002-31	INDUCTOR 4.7μH		R2704	1-216-039-00	RES,CHIP 390 5% 1/10W	
L4902	1-412-002-31	INDUCTOR 4.7μH		R2705	1-216-039-00	RES,CHIP 390 5% 1/10W	
L4903	1-412-002-31	INDUCTOR 4.7μH		R2706	1-216-024-00	RES,CHIP 91 5% 1/10W	
<RESISTOR>				R2707	1-216-023-00	RES,CHIP 82 5% 1/10W	
R4901	1-216-043-91	RES-CHIP 560	5% 1/10W	R2709	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R4903	1-216-043-91	RES-CHIP 560	5% 1/10W	R2710	1-216-089-00	RES,CHIP 47K 5% 1/10W	
R4907	1-216-043-91	RES-CHIP 560	5% 1/10W	R2711	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R4910	1-216-295-91	SHORT 0		R2712	1-216-089-00	RES,CHIP 47K 5% 1/10W	
R4912	1-216-295-91	SHORT 0		R2715	1-216-025-11	RES,CHIP 100 5% 1/10W	
R4913	1-216-295-91	SHORT 0		R2716	1-216-295-91	SHORT 0	
				R2717	1-216-025-11	RES,CHIP 100 5% 1/10W	
				R2718	1-216-295-91	SHORT 0	

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

KP-41PX1/41PX1K/41PX1R

RM-892 RM-892 RM-862



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		* A-1652-078-AZG BOARD, COMPLETE *****		Q1434	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
				Q1435	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
		4-382-854-11 SCREW (M3X10), P, SW (+)		Q1436	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
				Q1437	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
		<CAPACITOR>		Q1438	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C1431	1-102-508-91	CERAMIC	10pF 0.5pF 50V			<RESISTOR>	
C1432	1-126-935-11	ELECT	470μF 20% 16V	R1431	1-249-414-11	CARBON 560 5% 1/4W	
C1433	1-107-364-11	MYLAR	0.01μF 10% 200V	R1432	1-249-414-11	CARBON 560 5% 1/4W	
C1434	1-107-364-11	MYLAR	0.01μF 10% 200V	R1433	1-249-377-11	CARBON 0.47 5% 1/4W	
C1435	1-107-667-11	ELECT	2.2μF 20% 160V	R1434	1-215-916-00	METAL OXIDE 680 5% 3W	
				R1435	1-216-475-11	METAL OXIDE 120 5% 3W	
C1436	1-130-471-00	MYLAR	0.001μF 5% 50V				
C1437	1-130-471-00	MYLAR	0.001μF 5% 50V	R1436	1-216-475-11	METAL OXIDE 120 5% 3W	
C1438	1-107-364-11	MYLAR	0.01μF 10% 200V	R1437	1-249-415-11	CARBON 680 5% 1/4W	
C1439	1-161-830-00	CERAMIC	0.0047μF 500V	R1438	1-215-451-00	METAL 18K 1% 1/4W	
C1440	1-104-664-11	ELECT	47μF 20% 25V	R1439	1-215-451-00	METAL 18K 1% 1/4W	
				R1440	1-249-415-11	CARBON 680 5% 1/4W	
C1441	1-137-380-11	MYLAR	0.47μF 5% 50V				
C1443	1-126-935-11	ELECT	470μF 20% 16V	R1442	1-247-807-31	CARBON 100 5% 1/4W	
C1444	1-107-648-91	ELECT	100μF 20% 160V	R1443	1-249-377-11	CARBON 0.47 5% 1/4W	
C1445	1-126-935-11	ELECT	470μF 20% 16V	R1444	1-247-807-31	CARBON 100 5% 1/4W	
C1446	1-126-935-11	ELECT	470μF 20% 16V	R1445	1-125-417-00	CARBON 680 5% 1/4W	
				R1446	1-249-401-11	CARBON 47 5% 1/4W	
		<CONNECTOR>					
CN1431	* 1-564-508-11	PLUG, CONNECTOR 5P		R1447	1-249-401-11	CARBON 47 5% 1/4W	
CN1432	* 1-564-510-11	PLUG, CONNECTOR 7P		R1448	1-249-417-11	CARBON 1K 5% 1/4W	
CN1433	* 1-564-507-11	PLUG, CONNECTOR 4P		R1449	1-215-389-00	METAL 47 1% 1/4W	
CN1434	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P		R1450	1-249-425-11	CARBON 4.7K 5% 1/4W	
CN1461	* 1-564-506-11	PLUG, CONNECTOR 3P		R1451	1-249-409-11	CARBON 220 5% 1/4W	
CN1462	* 1-564-507-11	PLUG, CONNECTOR 4P		R1452	1-249-413-11	CARBON 470 5% 1/4W	
CN1463	1-564-505-31	PLUG, CONNECTOR 2P		R1454	1-260-310-51	CARBON 33 5% 1/2W	
CN1464	* 1-564-507-11	PLUG, CONNECTOR 4P		R1455	1-249-383-11	CARBON 1.5 5% 1/4W	
				R1457	1-249-417-11	CARBON 1K 5% 1/4W	
				R1458	1-249-383-11	CARBON 1.5 5% 1/4W	
		<DIODE>					
D1431	8-719-924-11	DIODE MTZJ-T-77-22		R1459	1-249-399-11	CARBON 33 5% 1/4W	
D1432	8-719-924-11	DIODE MTZJ-T-77-22		R1460	1-215-916-00	METAL OXIDE 680 5% 3W	
D1433	8-719-991-33	DIODE 1SS133T-77		R1461	1-249-414-11	CARBON 560 5% 1/4W	
D1434	8-719-991-33	DIODE 1SS133T-77		R1462	1-249-414-11	CARBON 560 5% 1/4W	
D1435	8-719-991-33	DIODE 1SS133T-77		R1463	1-249-429-11	CARBON 10K 5% 1/4W	
D1436	8-719-991-33	DIODE 1SS133T-77		R1465	1-216-475-11	METAL OXIDE 120 5% 3W	
D1437	8-719-991-33	DIODE 1SS133T-77		R1468	1-216-475-11	METAL OXIDE 120 5% 3W	

						* A-1652-079-AZR BOARD, COMPLETE	

		<CONNECTOR>				<CONNECTOR>	
DY1431	Δ 1-451-517-31	DEFLECTION YOKE (G)		CN1401	* 1-564-510-11	PLUG, CONNECTOR 7P	
				CN1403	* 1-564-506-11	PLUG, CONNECTOR 3P	
				CN1404	* 1-564-507-11	PLUG, CONNECTOR 4P	
				CN1405	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
		<COIL>					
L1431	1-410-478-11	INDUCTOR	47μH			<CONNECTOR>	
		<TRANSISTOR>					
Q1431	8-729-044-61	TRANSISTOR 2SC4793 (LBS2SONY)					
Q1432	8-729-044-59	TRANSISTOR 2SA1837 (LBS2SONY)					
Q1433	8-729-119-76	TRANSISTOR 2SA1175-HFE					
						DY1401	Δ 1-451-517-31 DEFLECTION YOKE (R)

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

KP-41PX1/41PX1K/41PX1R

RM-892

RM-892

RM-862

ZR

REF.NO.	PART NO.	DESCRIPTION	REMARK
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<RESISTOR>

R1401	1-249-414-11	CARBON	560	5%	1/4W
R1402	1-249-414-11	CARBON	560	5%	1/4W
R1403	1-215-916-00	METAL OXIDE	680	5%	3W
R1415	1-216-475-11	METAL OXIDE	120	5%	3W
R1418	1-216-475-11	METAL OXIDE	120	5%	3W

MISCELLANEOUS

$\triangle$ 1-223-925-71 RESISTOR ASSY (HIGH-VOLTAGE)
(FOCUS PACK)

$\triangle$ 1-451-517-21 DEFLECTION YOKE

$\triangle$ 1-451-517-31 DEFLECTION YOKE

$\triangle$ 1-452-790-31 NECK ASSY

$\triangle$ 1-452-790-41 NECK ASSY

1-505-426-11 SPEAKER (10.6 CM)

1-528-864-12 BATTERY, SOLAR

1-543-653-21 CORE ASSY, BEAD (DIVISION TYPE)

$\triangle$ 1-765-286-11 CORD, POWER

$\triangle$ 8-598-955-13 BLOCK ASSY, HIGH-VOLTAGE

$\triangle$ A-1501-213-AMECHASEAL ASSY (R), SLANT

$\triangle$ A-1501-214-AMECHASEAL ASSY (G), SLANT

$\triangle$ A-1501-215-AMECHASEAL ASSY (B), SLANT

ACCESSORIES & PACKING MATERIALS

* 4-029-168-01 BAG, PROTECTION

* 4-030-895-01 JOINT

* 4-041-423-11 SHEET, PROTECTION

* 4-065-646-01 CUSHION (UPPER) (ASSY)

* 4-065-730-01 TRAY

* 4-072-998-01 INDIVIDUAL CARTON

* 4-206-026-01 CUSHION, LOWER

4-026-027-11 MANUAL, INSTRUCTION (41PX1)

4-026-027-21 MANUAL, INSTRUCTION (41PX1R)

4-026-027-31 MANUAL, INSTRUCTION (41PX1K)

REMOTE COMMANDER

1-418-572-11 REMOTE COMMANDER (RM-892)

1-473-692-11 REMOTE COMMANDER (RM-862)

