# **AV RECEIVER KX-V2** SERVICE MANUAL

### **IMPORTANT NOTICE**

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

Failure to follow appropriate service and safety procedures when servicing this product WARNING: may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

**IMPORTANT:** The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit.

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### TO SERVICE PERSONNEL

- 1. Critical Components Information. Components having special characteristics are marked and must be replaced with parts having specifications equal to those originally installed.
- Leakage Current Measurement (For 120V Models Only). When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.
- Meter impedance should be equivalent to 1500 ohm shunted by 0.15μF.
- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.



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"F201, 202 : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 6.0A, 125V FUSE." "F801 : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 10A, 250V FUSE."

#### CAUTION

"CAUTION"

F201, 202: REPLACE WITH SAME TYPE 6.0A, 125V FUSE.F801: REPLACE WITH SAME TYPE 10A, 250V FUSE.

#### ATTENTION

F201, 202 : UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE DE 6.0A, 125V. F801 : UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE DE 10A, 250V.

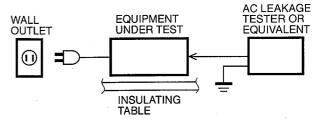
# WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

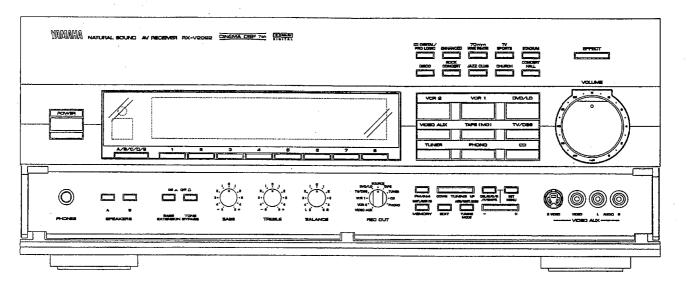
Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

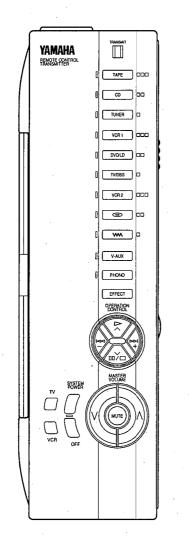
If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

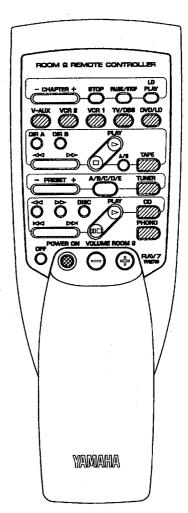


**RX-V2092** 

### **FRONT PANELS**

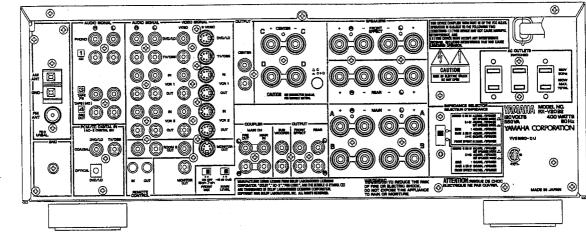




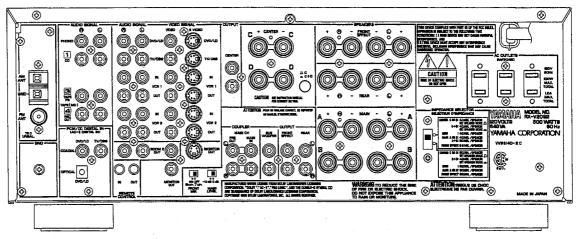


### **REAR PANELS**

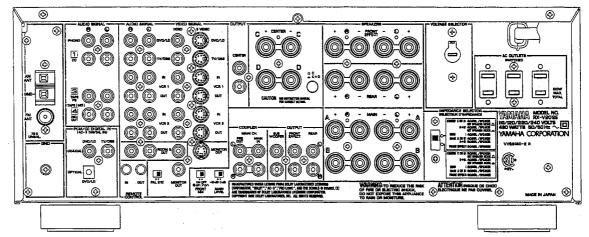
#### ▼ U model



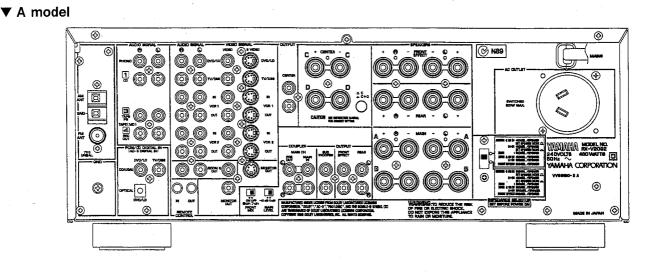
#### ▼ C model



#### ▼ R model

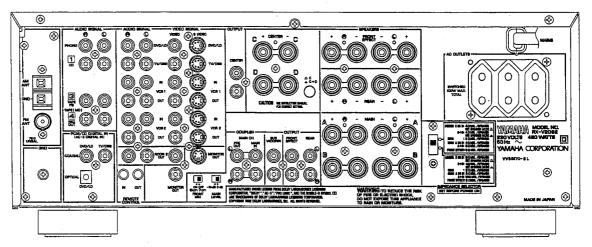


**RX-V2092** 



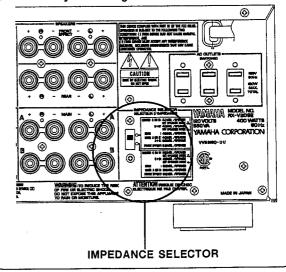
#### ▼ L model

)



#### WARNING

Do not change the IMPEDANCE SELECTOR switch setting while the power to this unit is on, otherwise this unit may be damaged.



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**RX-V2092** 

## SPECIFICATIONS

Minimum RMS Output Power per Channel
MAIN, 20Hz to 20kHz, 0.02% THD, 8Ω
CENTER, 20Hz to 20kHz, 0.02% THD, 8Ω 100W
REAR, 20Hz to 20kHz, 0.02% THD, 8Ω
FRONT, 1kHz, 0.05% THD, 8Ω
Maximum Power per Channel (R model only)
MAIN, 1kHz, EIAJ, 10% THD, 8Ω
Dynamic Power per Channel (IHF)
MAIN, 8/6/4/2Ω
DIN Standard Output Power per Channel (L model only)
MAIN, 1kHz, 0.7% THD, $4\Omega$
Dynamic Headroom (U, C, models only)
8Ω 1.46dB
IEC Power (L model only)
MAIN, 1kHz, 0.015% THD, 8Ω
Power Band Width
MAIN, 0.08% THD, 50W/8Ω 10Hz to 50kHz
Damping Factor
MAIN, 20Hz to 20kHz, 8Ω
Input Sensitivity/Impedance
PHONO MM
CD, etc
MAIN IN 1V/47kΩ
Maximum Input Signal Level
PHONO MM, 1kHz, 0.04% THD 110mV
CD, etc, 1kHz, 0.5% THD (Effect on) 2.2V
Output Level/Impedance
REC OUT
PRE OUT (MAIN) 1V/1.2kΩ
ROOM 2 OUT
SUB WOOFER (MAIN SP : SMALL) 3.4V/1.2kΩ
Headphone Jack Rated Output/Impedance
1kHz, 150mV, 8Ω 0.5V/440Ω
Frequency Response (20Hz to 20kHz)
CD, etc, MAIN 0±0.5dB
RIAA Equalization Deviation (20Hz to 20kHz)
PHONO MM 0±0.5dB
Total Harmonic Distortion (20Hz to 20kHz)
PHONO MM to REC OUT (1V)
CD, etc to MAIN SP OUT (50W/8Ω)
MAIN IN to MAIN SP OUT (50W/8Ω) 0.008%
Signal-to-Noise Ratio (IHF-A-Network)
PHONO MM, Input Shorted (5mV) REC OUT 86dB
CD, etc, Input Shorted, SP OUT (Effect off)96dB
Residual Noise (IHF-A-Network)
MAIN, SP OUT
Channel Separation (Vol30dB, Effect off)
PHONO MM, Input Shorted, 1kHz/10kHz 60dB/55dB
CD, etc, Input 5.1kΩ Shorted, 1kHz/10kHz 60dB/45dB
Tone Control Characteristics
BASS : Boost/cut±10dB (50Hz)
Turnover Frequency
TREBLE : Boost/cut
Turnover Frequency 3.5kHz
Filter Characteristics
MAIN, REAR SP SMALL : H.P.F fc = 90Hz, 12dB/oct.
SUB WOOFER : L.P.F fc = 90Hz, 24dB/oct.
Bass Extension+6dB (50Hz)
Muting∞
Gain Tracking Error (0dB to -60dB)3dB
Tuner Output Level/Impedance
FM (100% mod.)
1kHz U, C, R models
40kHz Dev. A, L models
AM (30% mod. 1kHz)

#### FM SECTION

Tuning Range
U, C models
A, L models
R model
50dB Quieting Sensitivity (IHF, 75 Ω)
Mono 1.55µV (15.1dBf)
Stereo
Image Response Ratio
U, C, R models 45dB
A, L models
IF Response Ratio
U, C, R models 70dB
A, L models
Spurious Response Ratio
AM Suppression Ratio
Capture Ratio 1.5dB
Alternate Channel Selectivity
U, C, R models 85dB
Selectivity (two signals, 40kHz Dev.)
A, L models
Signal-to-Noise Ratio
Mono/Stereo (IHF)
U, C, R models 80/75dB
Mono/Stereo (DIN-weighted, 40kHz Dev.)
A, L models
Harmonic Distortion
Mono/Stereo (1kHz) 0.1/0.2%
Stereo Separation
1kHz
Frequency Response
20Hz to 15kHz 0±1.5dB

#### AM SECTION

Tuning Range
U, C models
A, L models
R model
Usable Sensitivity 100µV/m
Selectivity
Signal-to-Noise Ratio
Image Response Ratio
Spurious Response Ratio
Harmonic Distortion (1kHz)0.3%

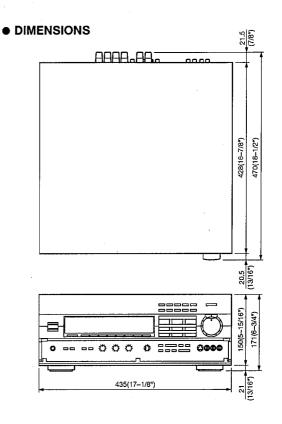
Video Signal Type
U, C models NTSC
A, L modelsPAL
R model NTSC/PAL
Video Signal Level 1Vp-p/75Ω
S-Video Signal Level
Υ 1Vp-p/75Ω
C0.286Vp-p/75Ω
Maximum Input Level1.5Vp-p
Signal-to-Noise Ratio
Monitor Output Frequency Response 5Hz~10MHz, -3dB

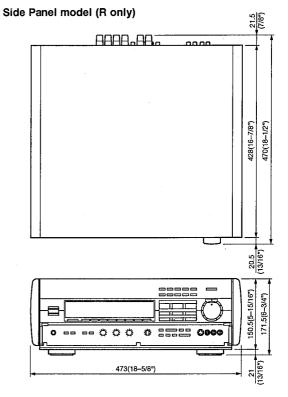
Power Supply
U, C models AC 120V, 60Hz
A model AC 240V, 50Hz
L model AC 230V, 50Hz
R model AC 110/120/220/240V, 50/60Hz
Power Consumption
U model 450W
C model 500W/640VA
A, L, R models 480W
Maximum Power Consumption (R model only) 770W
AC Outlets
U, C, L, R models, Switched x 3 100W max (Total)
A model, Switched x 1 100W max
<b>Dimensions</b> (W x H x D)
(17-1/8" x 6-3/4" x 18-1/2")
Side Panel model (R only) 473 x 171.5 x 470mm
(18-5/8" x 6-3/4" x 18-1/2")
Weight
Side Panel model (R only)22.0 kg (48 lbs 8oz)
Accessories AM loop antenna x 1
Indoor FM antenna x 1
Remote Control Transmitter x 2
Battery (size "AA", "R06") x 4

\* Specifications subject to change without notice.

U ..... USA model C ..... Canadian model A ..... Australian model L ..... Singapore model R ..... General model

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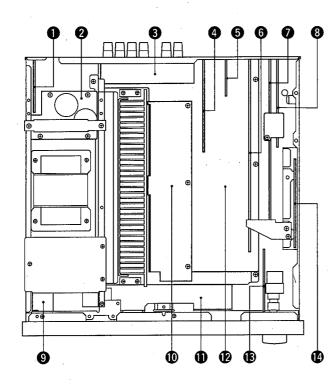


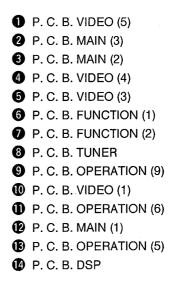


RX-V2092

Units : mm (inch)

### INTERNAL VIEW





### ■ DISASSEMBLY PROCEDURES (Remove parts in disassembly order as numbered.)

#### 1. Removal of Top Cover

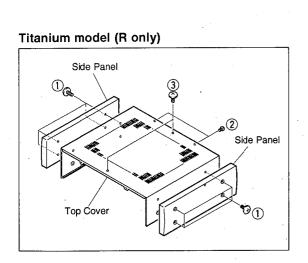
a. Remove 4 screws ( 1 ), 2 screws ( 2 ) and 2 screws ( 3 ) in Fig. 1.

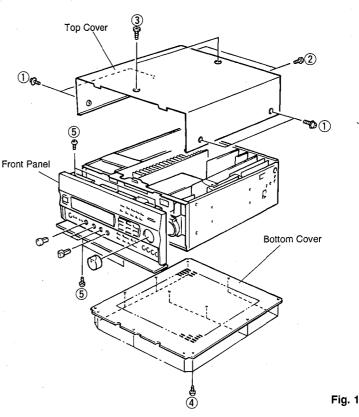
#### 2. Removal of Bottom Cover

a. Remove 13 screws ( ④ ) in Fig. 1.

#### 3. Removal of Front Panel

- a. Remove 5 knobs.
- b. Remove 5 screws ( 5 ) in Fig. 1.





### SELF DIAGNOSIS FUNCTION

### **1. PURPOSE AND OPERATION**

The RX-V2092 has a Self Diagnosis Function to locate a faulty part, if any, by inspecting and taking measurements.

There are 15 main items in the diagnostic menu and some of them have sub-menu items as listed below.

No.	MAIN MENU	SUB MENU CONTENTS		
1	THROUGH		7ch. THROUGH	
2	FRONT THROUGH		DIGITAL PS-RAM THR.	
			FRONT MIX ON(5ch.)	
3	PRO LOGIC	1. CENTER WIDE	PRO LOGIC	
		2. CENTER NORMAL	PRO LOGIC	
	· · ·	3. CENTER PHANTOM	PRO LOGIC	
		4. EFFECT OFF	ANALOG L/R THROUGH	
4	AC3 THROUGH			
5	MANUAL TEST	1. TEST LEFT	TEST NOISE	
		2. TEST CENTER	TEST NOISE	
		3. TEST RIGHT	TEST NOISE	
		4. TEST RIGHT SUR.	TEST NOISE	
		5. TEST LEFT SUR.	TEST NOISE	
		6. TEST LFE	TEST NOISE	
		7. TEST FRONT LEFT	TEST NOISE	
		8. TEST FRONT RIGHT	TEST NOISE	
		9. TEST ALL	TEST NOISE 7ch. ALL	
6	DISPLAY/EFFECT OFF	1. EFFECT OFF	ANALOG L/R THROUGH	
		2. VFD ALL	ANALOG L/R THROUGH	
		3. VFD OFF	ANALOG L/R THROUGH	
7	FACTORY PRESET	1. KEEP DATA	KEEP LAST CONDITION	
		2. FACTORY PRESET	KEEP as from FACTORY	
8	AD DATA CHECK	1. KEY(CH0 – CH4)	SAME as MENU No.1	
		2. PROTECTION/THERMO SAME as MEN		
		3. SW/REC OUT/METER	SAME as MENU No.1	
9	VERSION INFOMATION	1. MODEL/MARKET	KEEP LAST CONDITION	
		2. ROM(PROGRAM)	KEEP LAST CONDITION	
10	MENU EXIT & DEMO	1->2 DEMO DISPLAY		
11	DSP STATES	1. PORT/FS/AC3 MODE	KEEP LAST CONDITION	
		2. SUB-CODE	KEEP LAST CONDITION	
12	CENTER SPEAKER	1. CENTER WIDE	KEEP LAST CONDITION	
	· · · · · · · · · · · · · · · · · · ·	2. CENTER NORMAL	KEEP LAST CONDITION	
		3. CENTER PHANTOM	KEEP LAST CONDITION	
13	REAR SPEAKER	1. REAR LARGE	KEEP LAST CONDITION	
	· · · · · · · · · · · · · · · · · · ·	2. REAR SMALL	KEEP LAST CONDITION	
14	MAIN SPEAKER	1. MAIN LARGE	KEEP LAST CONDITION	
		2. MAIN SMALL	KEEP LAST CONDITION	
15	LFE/BASS OUT	1. BASS SUB WOOFER	KEEP LAST CONDITION	
		2. BASS MAIN	KEEP LAST CONDITION	
		3. BASS BOTH	KEEP LAST CONDITION	

### 2. STARTING DIAGNOSIS FUNCTION

### (1) Starting diagnosis function

#### A. Starting the program

Turn on the power while pressing the "VCR2" key and "VIDEO AUX" key on the front panel of the main unit simultaneously, and the diagnostic program will start.

After the program has started, execute the diagnostic menu No.1.

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#### B. Settings for start-up of diagnostic program

The settings used when starting the diagnostic program are as follows.

1. EFFECT LEVEL

CHANNEL	FRONT	CENTER	REAR	SWFR	LFE
LEVEL (dB)	-10	0	0	0	0

2. SPEAKER RELAY A/B : ON

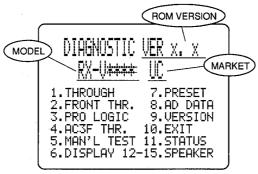
3.	MUTING	: OFF
4.	INPUT (VIDEO)	: DVD/LD (DVD/LD)
5.	CENTER SPEAKER	: WIDE
6.	REAR SPEAKER	: LARGE
7.	MAIN SPEAKER	: LARGE
8.	LFE/BASS OUT	: SWFR
9.	ROOM 2 INPUT (VIDEO)	: DVD/LD (DVD/LD)
10.	ROOM 2 VOLUME	: -30dB

#### C. Start-up display

The diagnostic menu list appears on the monitor screen and the information of the protection function appears on the front panel display of the main unit.

#### • Monitor display

The version information including the list of diagnostic menu items, the model, the applicable market and the ROM version appear on the monitor display. For details of the version information, refer to (9) Version under 5. CONTENTS OF DIAGNOSIS FUNCTION.



<MONITOR DISPLAY>

#### • FL display at start-up of diagnostic program

When the diagnostic program has started, the history (\*2) of the protection function (\*1) is displayed. If the protection function has been activated in the past, the type and voltage value are displayed and after a few seconds the diagnosis function menu will appear.

- (\*1) If some faulty condition is detected in the excess current, the power source or the DC, the power will be turned off automatically.
- (\*2) To clear the history of the protection function, select "PRESET DAT" in the diagnosis menu No.7 as described later.

#### • History of protection function

Each case of the history of the protection function is displayed as shown below.

1 DVD/LD NO PROTEC

The protection function has not been activated.

1 DVD/LD I PROTEC

1 DVD/LD *PS PRT # 0* 

The protection function has been activated due to an overcurrent. In this state, even if the power is turned on, it will turn off immediately.

The protection function has been activated due to an abnormality in the power supply. In this state, even if the power is turned on, it will turn off after 0.5 second. The reduced level of the power is indicated in the AD value. For more information on this value, refer to 5. CONTENTS OF DIAGNOSIS FUNCTION in the later section.

1 DVD/LD *DC PRT : 0* 

The protection function has been activated due to a cause in the DC. In this state, even if the power is turned on, it will turn off after 2 seconds. The reduced level of the power is indicated in the AD value. For more information on this value, refer to 5. CONTENTS OF DIAGNOSIS FUNCTION in the later section.

1 DVD/LD *TMP PROTEC* 

The protection function has been activated due to an excessively high temperature of heat sink. As soon as such an abnormality is detected, the power is turned off.

### **3. OPERATION AND DISPLAY WHEN STARTING DIAGNOSIS FUNCTION**

#### (1) Selection of diagnostic menu

The diagnostic menu and the sub-menu can be selected by using the front panel keys of the main unit or the remote control unit.

#### • Selection by using the front panel keys

Use the "TUNING UP DOWN" key to select the diagnostic menu and the "SET MENU" key to select the sub-menu.

#### • Selection by using the remote control unit

The diagnostic menu items No.1 through No.10 correspond to the sound field program keys No. 1 through No.10 and No.11 to the "EFFECT" key. The sub-menu changes at every push of the same key.

It is possible to call the sub-menu of other than the above diagnostic menu items. Refer to the table below for the key corresponding to each diagnostic menu item.

No.	MAIN MENU	REMOTE CONTROL KEYS	
1	THROUGH	PRO LOGIC/DOLBY DIGITAL	
2	FRONT THROUGH	ENHANCED	
3	PRO LOGIC	MOVIE THEATER	
4	4 AC3F THROUGH TV SPORTS		
5	MANUAL TEST	STADIUM	
6	DISPLAY/EFFECT OFF	DISCO	
7	FACTORY PRESET	ROCK CONCERT	
8 AD DATA CHECK JAZZ CLUB		JAZZ CLUB	
9	VERSION INFOMATION	CHURCH	
10	MENU EXIT & DEMO	CONCERT HALL	
11 DSP STATES EFFECT		EFFECT	

No.	MAIN MENU	SUB MENU	REMOTE CONTROL KEY	
1	THROUGH		TAPE PLAY	
2	FRONT THROUGH		TAPE 🕶	
3	PRO LOGIC	2. CENTER NORMAL	TAPE 🏎	
4	AC3F THROUGH		TAPE STOP	
5	MANUAL TEST	9. TEST ALL	TAPE REC	
6	DISPLAY/EFFECT OFF	2. VFD ALL/EFFECT OFF	TAPE A/B	
12	CENTER SPEAKER	TER SPEAKER 1. CENTER WIDE TAPE		
		2. CENTER NORMAL	CD PLAY	
		3. CENTER PHANTOM	CD PAUSE	
13	REAR SPEAKER	1. REAR LARGE	CD 🛏	
		2. REAR SMALL	CD 🖛	
14	MAIN SPEAKER	1. MAIN LARGE	CD 🏎	
		2. MAIN SMALL	CD 🔫	
15	LFE/BASS OUT	1. BASS SUB WOOFER	PRESET +	
		2. BASS MAIN	PRESET	
		3. BASS BOTH	A/B/C/D/E	

#### (2) Menu display

The contents of the diagnostic function are displayed on the display panel.



THROUGH

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(PROCESSING)

DVD/LD

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1



Listed below are the other functions available while the diagnosis function is working.

- · Selecting input source
- Adjusting effect level
- Adjusting master volume
- Muting on/ off
- Turning power off
- Selecting input source of ROOM 2
- Adjusting master volume of ROOM 2

#### 4. CANCELING DIAGNOSIS FUNCTION

To cancel the diagnosis function, turn off the power. When the power is turned on the next time, the normal mode will start.

\* When the diagnosis mode is canceled by using the diagnostic menu No.10 and set back to the normal mode, the photographing mode will appear on the front panel display. When the input is set to the "TUNER", all the segments of the tuning meter will light up. Also, when it is set to DVD/LD or TV/DBS, the display will be the same as when an AC3 signal is input.

### **5. CONTENTS OF DIAGNOSIS FUNCTION**

This section describes the contents of the self diagnosis function in detail. Here the output channel names and the IC names are referred to as follows.

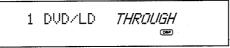
 Main L
 -> L
 Main R
 -> R
 Center -> C

 Front L/R
 -> FL/FR
 Rear L/R
 -> RL/RR
 LFE
 -> LFE

 YSS245F
 -> HL3
 YSS243F
 -> AC3F

#### (1) THROUGH

<FRONT PANEL DISPLAY>



There are two signal passages, one is for the analog input signal and the other is for the digital input signal. They are switched from one to the other automatically with a priority placed for the digital signal over the analog signal. When digital signals are input, the digital optical input has a priority over the digital coaxial input.

Automatic

Selection

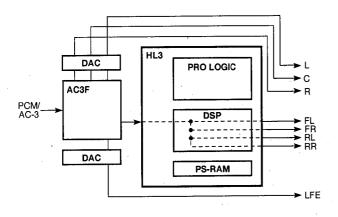
#### • Digital signal passage

#### <DOLBY DIGITAL>

- The signals from L, R, C and LFE are output through the AC3F.
- The signals from FL/FR and RL/RR are output through the AC3F and then the DSP section of HL3 as the L/R signals.

#### <PCM DIGITAL>

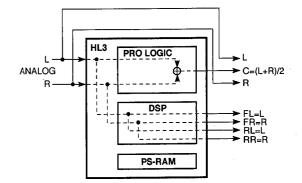
- The signals from L/R and C/LFE are output through the AC3F as the L/R signals.
- The signals from FL/FR and RL/RR are output through the AC3F and then the DSP section of HL3 as the L/R signals.

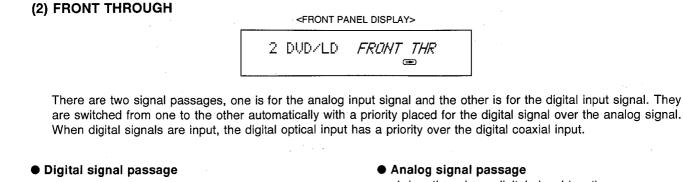


#### Analog signal passage

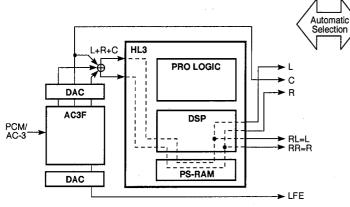
(when there is no digital signal input)

- The signals from L/R are output through the analog bypass.
- The signals from C are output through the PRO LOGIC section of HL3 as (L + R)/2.
- The signals from FL/FR and RL/RR are output through the DSP section of HL3 as the L/R signals.





- · The signals from L, R, RL and RR are output through the DSP section of AC3F to HL3 as the L+R+C signal respectively.
- · The signals from C and LFE are output through the AC3F.



### Analog signal passage

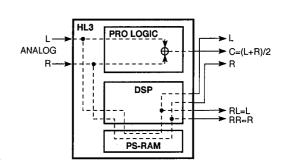
<FRONT PANEL DISPLAY>

FRONT THR .

2 DVD/LD

(when there is no digital signal input)

- The signals from L, R, RL and RR are output through the DSP section of HL3.
- The signals from C are output through the PRO LOGIC section of HL3 as (L+R)/2.



#### (3) PRO LOGIC

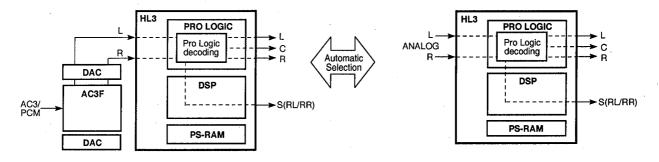
<FRONT PANEL DISPLAY>

3 DVD/LD *P.LGC WIDE* 

The PRO LOGIC function is activated when the AUTO INPUT BALANCE function is turned off. The digital and analog switching is available automatically with a priority placed for the digital signal over the analog signal. When digital signals are input, the digital optical input has a priority over the digital coaxial input.

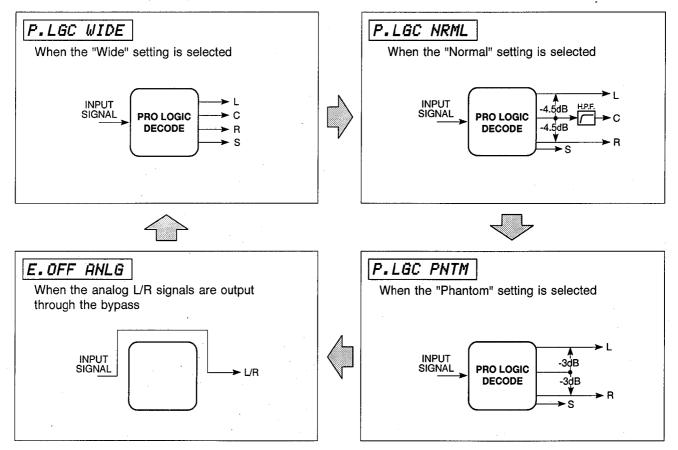
PRO LOGIC for digital signal

#### PRO LOGIC for analog signal



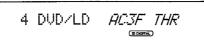
#### O Sub-menu

The following 4 settings are selectable; "Normal", "Wide" and "Phantom" of the center speaker and the "Effect off" (for the analog output only).



### (4) AC3F THROUGH

<FRONT PANEL DISPLAY>



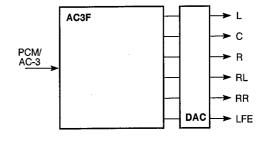
The signals from all the channels are output through the AC3F and the analog input signals are muted.

#### <DOLBY DIGITAL>

The Dolby digital signals from L, R, RL, RR, C and LFE are output through the AC3F.

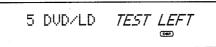
#### <PCM DIGITAL>

The PCM digital signals input as L/R signals are output to L/R, C/LFE and RL/RR channels respectively.



#### (5) MANUAL TEST TONE

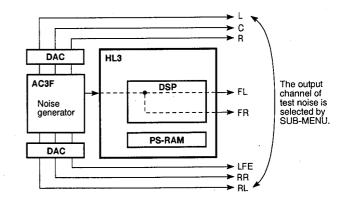
<FRONT PANEL DISPLAY>

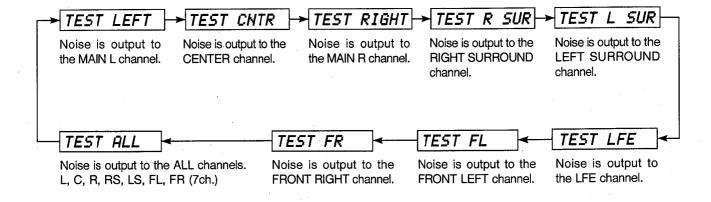


The test noise generated by the noise generator built into the DSP is output to the channel selected by the sub-menu.

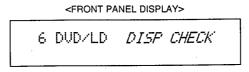
#### O Sub-menu

Select the channel for the test noise output in the sequence as shown below.





### 6) FRONT PANEL VFD (Vacuum Fluorescent Display) check



With the model that has VFD check and the standby functions, perform the standby LED check to check the VFD driver and segments for operation. At this time, the signals from the main L/R channels are output through the analog bypass and the effect channel is muted.

#### O Sub-menu

Either all the segments of VFD on or off can be selected. With the model that has a standby function, the LED lights up while selecting a menu.

ROOM & CONTROL A B 515 47 10 105	ONE OFTY OUT OUT FIT HOLD BOIL BEFORE AND	

All the segments of VFD turn on.

All the segments of VFD turn off.

#### (7) FACTORY PRESET

<FRONT PANEL DISPLAY>

This menu is used to reserve whether or not to set the back-up data for the effect level, delay time and so on to the factory preset state.

KEEP DATA

The back-up data is not initialized. To keep the data set by the user, check that this mode has been selected and cancel the self diagnosis function.

### PRESET DAT

When the self diagnosis function is canceled, the back-up data is initialized to the factory preset state. For the contents of the initialization, refer to page 24.

**CAUTION :** Before setting to the PRESET DATA, write down the existing preset memory contents of the Tuner in a table as shown below. (This is because setting to the PRESET DATA will cause the memory contents to be as factory set, i.e., all the preset memory by the user will be erased.)

Page	P1	P2	P3	P4	P5	P6	P7	P8
Α								
В								
С								<u> </u>
D								
Е								

#### (8) AD CONVERSION DATA

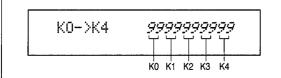
<pront panel display>
8 DVD/LD AD CHECK
@

This menu is used to check the AD input port of the CPU and the resistance value to divide the voltage. The AD conversion data detected by the software is displayed in percentage in term of 5V as 100%. The signal processing content is the "THROUGH" passage of the diagnostic menu No.1.

\* When the AD value deviates from the standard value by ±4%, normal operation will not be available. In such a case, check the partial pressure resistance constant, soldering condition, etc.

#### O Sub-menu

Using this menu, it is possible to check the AD value of the Input, Rec Out, Protection, Temperature Detection (fan control), PAL/NTSC switch, Front Mix switch, Frequency select switch (R model) signal meter in the tuner section. While the AD value is displayed, only selection of the diagnosis menu, turning off the power and cancellation of the diagnosis function are available.



The AD value detected when the front panel key is pressed is displayed in percentage. The AD values are assigned to the keys at 10% intervals as shown in the tables below.

\* For the keys in the parentheses in the tables below, no AD values are assigned. They are used to select the sub menus.

AD value	90% (4.5V)	80% (4.0V)	70% (3.5V)	60% (3.0V)	50% (2.5V)
К0	MEMORY	EDIT	TUNING MODE	FM/AM	TUNING DOWN
K1			SPEAKER A	SPEAKER B	A/B/C/D/E
K2				EFFECT	PRO LOGIC
К3		PRESET 6	PRESET 7	PRESET 8	TUNER
К4	· · · · · · · · · · · · · · · · · · ·			ROCK CONCERT	JAZZ CLUB

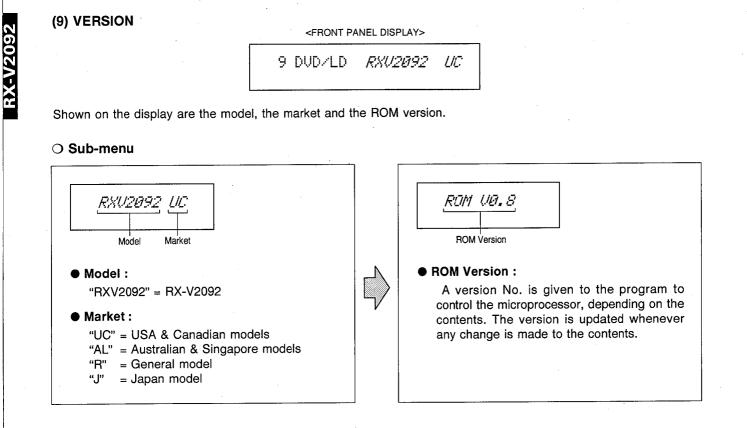
AD value	40% (2.0V)	30% (1.5V)	20% (1.0V)	10% (0.5V)	0% (0.0V)
K0	TUNING UP	DLY/LVL	DLY/LVL –	DLY/LVL +	SET MENU
K1	PRESET 1	PRESET 2	PRESET 3	PRESET 4	PRESET 5
K2	ENHANCED	MOVIE THEATER	TV SPORTS	STADIUM	DISCO
К3	PHONO	CD	V-AUX	TV/DBS	TAPE
K4	CHURCH	CONCERT HALL	VCR2	VCR1	DVD/LD

PRESET : PRESET STATION DLY/LVL : DELAY TIME / SP LEVEL



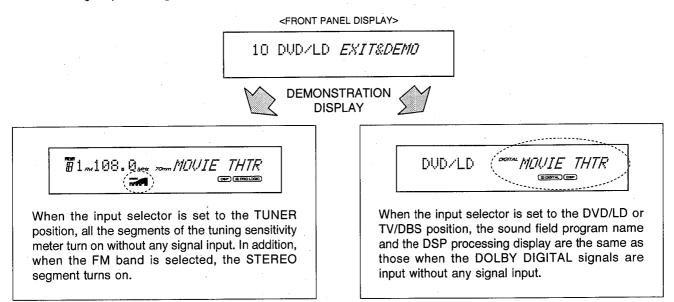
			~			
	, 	1				
PRU	14 PRD 7THM26					
Value for o Power Sup	checking Value for DC Value for ply section detection Fan control	•				
PRV :	The PRV value shows whether the normal operation is from 9 be activated to turn off the pov	to 19. If the volta	age exceeds th			
PRD :	The PRD value shows whether normal operation is from 2 to 1 activated to turn off the power	3. If the voltage				
THM :	The THM value shows the dete When the value drops less tha automatically.					
	Operation of air cooled fan26 or more: The fan does23 ~ 25: The fan may24 ~ 6: The fan runs5 or less: The protection	run at times.	vated.			
·						
FSW	60 <u>REC50MTR 0</u>	]				
	Panel REC OUT Tuning Sense	] .				
Rear	Panel REC OUT Tuning Sense th Position		EP PAL/NTSC	FRONT MI	X VOLTAGE	AD VALUE
Rear	Panel RECOUT Tuning Sense ch Position Tuning Sense The FSW value shows the	FREQUENCT ST		FRONT MI		AD VALUE
Rear	Panel REC OUT Tuning Sense th Position	10kHz	NTSC	OFF (7ch)	0.0V	
Rear	Panel RECOUT Tuning Sense Position The FSW value shows the position of the rear panel	10kHz 10kHz	NTSC NTSC	OFF (7ch) ON (5ch)	0.0V 0.5V	0% 10%
Rear	Panel RECOUT Tuning Sense Position The FSW value shows the position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the	10kHz 10kHz 10kHz	NTSC NTSC PAL	OFF (7ch) ON (5ch) OFF (7ch)	0.0V 0.5V 1.0V	0%
Rear	Panel REC OUT Tuning Sense Position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for	10kHz 10kHz 10kHz 10kHz	NTSC NTSC PAL PAL	OFF (7ch) ON (5ch) OFF (7ch) ON (5ch)	0.0V 0.5V 1.0V 1.5V	0% 10% 20%
Rear	Panel RECOUT Tuning Sense Position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT	10kHz 10kHz 10kHz 10kHz 9kHz	NTSC NTSC PAL PAL NTSC	OFF (7ch) ON (5ch) OFF (7ch) ON (5ch) OFF (7ch)	0.0V 0.5V 1.0V 1.5V 2.0V	0% 10% 20% 30%
Rear Switc	Panel REC OUT Tuning Sense Position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for	10kHz 10kHz 10kHz 10kHz 9kHz 9kHz	NTSC NTSC PAL PAL	OFF (7ch) ON (5ch) OFF (7ch) ON (5ch) OFF (7ch) ON (5ch)	0.0V 0.5V 1.0V 1.5V 2.0V 2.5V	0% 10% 20% 30% 40%
Rear Switc	Panel RECOUT Tuning Sense Position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT	10kHz 10kHz 10kHz 10kHz 9kHz	NTSC NTSC PAL PAL NTSC NTSC	OFF (7ch) ON (5ch) OFF (7ch) ON (5ch) OFF (7ch)	0.0V 0.5V 1.0V 1.5V 2.0V 2.5V	0% 10% 20% 30% 40% 50%
Rear Switc	Panel RECOUT Tuning Sense Position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz	NTSC NTSC PAL PAL NTSC NTSC PAL	OFF (7ch) ON (5ch) OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch)	0.0V 0.5V 1.0V 1.5V 2.0V 2.5V 3.0V	0% 10% 20% 30% 40% 50% 60%
Rear Switc	Panel RECOUT Tuning Sense Position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz 9kHz	NTSC NTSC PAL PAL NTSC NTSC PAL	OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch)	0.0V 0.5V 1.0V 1.5V 2.0V 2.5V 3.0V	0% 10% 20% 30% 40% 50% 60%
Rear Switc	Panel REC OUT Tuning Sense Position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz 0UT position	NTSC PAL PAL NTSC NTSC PAL PAL	OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch) ON (5ch)	0.0V 0.5V 1.0V 2.0V 2.5V 3.0V 3.5V	0% 10% 20% 30% 40% 50% 60% 70%
Rear Switc	Panel RECOUT Tuning Sense Position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz 0UT position	NTSC PAL PAL NTSC NTSC PAL PAL PAL	OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch) ON (5ch)	0.0V 0.5V 1.0V 1.5V 2.0V 2.5V 3.0V 3.5V	0% 10% 20% 30% 40% 50% 60% 70%
Rear Switc	Panel       REC OUT Forming Sense         Position       REC OUT Tuning Sense         Position       Position         The FSW value shows the position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.         The REC value shows the REC in percentage at 10% intervals.	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz 0UT position	NTSC PAL PAL NTSC NTSC PAL PAL PAL REC OUT SEL PHONC	OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch) ON (5ch)	0.0V 0.5V 1.0V 1.5V 2.0V 2.5V 3.0V 3.5V VOLTAGE 4.5V	0% 10% 20% 30% 40% 50% 60% 70% AD VALUE 90%
Rear Switc	Panel       REC OUT Tuning Sense         Position       Position         The FSW value shows the position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.         The REC value shows the REC in percentage at 10% intervals.         The MTR value shows the signal	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz 0UT position	NTSC PAL PAL PAL NTSC NTSC PAL PAL PAL PAL CD CD TUNEF	OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch) ON (5ch)	0.0V 0.5V 1.0V 2.0V 2.5V 3.0V 3.5V VOLTAGE 4.5V 4.0V	0% 10% 20% 30% 40% 50% 60% 70% AD VALUE 90% 80%
Rear Switc	Panel       REC OUT Forming Sense         Position       REC OUT Tuning Sense         Position       Position         The FSW value shows the position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.         The REC value shows the REC in percentage at 10% intervals.	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz 0UT position	NTSC PAL PAL NTSC NTSC PAL PAL PAL PAL PAL CD TUNEF TAPE	OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch) ON (5ch)	0.0V 0.5V 1.0V 2.5V 2.5V 3.0V 3.5V <b>VOLTAGE</b> 4.5V 4.0V 3.5V 3.0V	0% 10% 20% 30% 40% 50% 60% 70% <b>AD VALUE</b> 90% 80% 70%
Rear Switc	Panel       REC OUT Tuning Sense         Position       Position         The FSW value shows the position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.         The REC value shows the REC in percentage at 10% intervals.         The MTR value shows the signal	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz 0UT position	NTSC NTSC PAL PAL NTSC NTSC PAL PAL PAL PAL CD TUNEF TAPE SOURC	OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch) ON (5ch) OFF (7ch) ON (5ch) ECTOR	0.0V 0.5V 1.0V 2.5V 2.5V 3.0V 3.5V <b>VOLTAGE</b> 4.5V 4.0V 3.5V 3.0V 2.5V	0% 10% 20% 30% 40% 50% 60% 70% 80% 70% 60% 50%
Rear Switc	Panel       REC OUT Tuning Sense         Position       Position         The FSW value shows the position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.         The REC value shows the REC in percentage at 10% intervals.         The MTR value shows the signal	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz 0UT position	NTSC NTSC PAL PAL NTSC NTSC PAL PAL PAL PAL PAL CD TUNEF TAPE SOURC DVD/LL	OFF (7ch) ON (5ch) OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch) ON (5ch) OFF (7ch) ON (5ch)	0.0V 0.5V 1.0V 1.5V 2.0V 2.5V 3.0V 3.5V 4.0V 3.5V 4.0V 3.5V 3.0V 2.5V 2.0V	0% 10% 20% 30% 40% 50% 60% 70% 80% 70% 80% 70% 60% 50% 40%
Rear Switc	Panel       REC OUT Tuning Sense         Position       Position         The FSW value shows the position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.         The REC value shows the REC in percentage at 10% intervals.         The MTR value shows the signal	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz 0UT position	NTSC NTSC PAL PAL NTSC NTSC PAL PAL PAL PAL PAL CD TUNEF TAPE SOURC DVD/LE	OFF (7ch) ON (5ch) OFF (7ch) OFF (7c	0.0V 0.5V 1.0V 2.5V 2.5V 3.0V 3.5V <b>VOLTAGE</b> 4.5V 4.0V 3.5V 3.0V 2.5V 2.0V 1.5V	0% 10% 20% 30% 40% 50% 60% 70% 80% 70% 60% 50% 40% 30%
Rear Switc	Panel       REC OUT Tuning Sense         Position       Position         The FSW value shows the position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.         The REC value shows the REC in percentage at 10% intervals.         The MTR value shows the signal	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz 0UT position	NTSC PAL PAL PAL NTSC NTSC PAL PAL PAL PAL PAL CD TUNEF TAPE SOURC DVD/LL TV/DBS VCR 1	OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch)	0.0V 0.5V 1.0V 2.5V 2.5V 3.0V 3.5V <b>VOLTAGE</b> 4.5V 4.0V 3.5V 3.0V 2.5V 2.0V 1.5V 1.0V	0% 10% 20% 30% 40% 50% 60% 70% 80% 70% 60% 50% 40% 30% 20%
Rear Switc	Panel       REC OUT Tuning Sense         Position       Position         The FSW value shows the position of the rear panel switches such as the FREQUENCY STEP select switch (for the R model), the PAL/NTSC select switch (for the R model) and the FRONT MIX switch.         The REC value shows the REC in percentage at 10% intervals.         The MTR value shows the signal	10kHz 10kHz 10kHz 9kHz 9kHz 9kHz 9kHz 0UT position	NTSC NTSC PAL PAL NTSC NTSC PAL PAL PAL PAL PAL CD TUNEF TAPE SOURC DVD/LE	OFF (7ch) ON (5ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch) OFF (7ch) ON (5ch) ECTOR	0.0V 0.5V 1.0V 2.5V 2.5V 3.0V 3.5V <b>VOLTAGE</b> 4.5V 4.0V 3.5V 3.0V 2.5V 2.0V 1.5V	0% 10% 20% 30% 40% 50% 60% 70% 80% 70% 60% 50% 40% 30%

)



### (10) CANCELING DIAGNOSIS FUNCTION & ENTERING DEMONSTRATION DISPLAY MODE

When the diagnosis function is canceled by using the sub-menu, the program enters the demonstration display mode. For the signal processing contents, the menu before executing this menu will be valid.



### (11) STATUS DISPLAY

<FRONT PANEL DISPLAY>

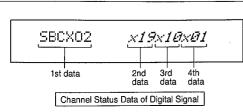
### 11 DVD/LD *STATUS CHK*

Shown on the display are the digital signal and the digital processing status.

🔿 Sub-menu

#0	CLOCK S	ELECTOR		The status	becomes	s "1" whe	n the effe	ct is off ar	nd "0" ot	herwise d	urin
P102				"3-sound f							-
#1/#2	FS0/1 for	DE-EMPH	ASIS	The status is set to match FS during reproduction of th					f the soft	wai	
P101/				including PRE-EMPHASIS bit.							
P100				OF	= 32k	44.1k 4	<u>8k</u>				
				FS0 1	1	0	0				
				FS1 0	1	0	1				
#3	DAC MUT	ΓE		The status	become	s "0" wh	en muted	by DAC.			
P99											
#4	DIR CLO	CK SELEC	TOR	The status	become	s "0" duri	ng analog	g reproduc	ction and	1 "1" othe	rwis
P98				when in th							
#5	DIGITAL	INPUT SEL	ECTOR	The status	become	s "0" wh	en the D	VD/LD inp	out is se	lected an	ıd "
P97				when TV/I	DBS inpu	t is seled	ted.				
	on the dis	splay are o	conditions	of the inp	ut signa	1					
		32kHz	DIGITAL 44.1kHz	48kHz	ANAL						
SI	GNAL AY DATA	<b>32kHz</b> x00	DIGITAL	· · · · · ·		OG					
Sid DISPL Shown	GNAL	x00 play are th	DIGITAL 44.1kHz x01	48kHz x02 odes for th	ANAL x03 e Dolby	og digital s	I	T		als,	
Shown	GNAL AY DATA	x00 play are th efinite.	DIGITAL 44.1kHz x01 ne audio co	<b>48kHz</b> x02	ANAL x03	OG	signal. Fo 3/1 x05	or the oth 2/2 x06	ner sign 3/2 x07	als,	





The channel status data of the digital signal is displayed in the 4 byte data of the hexadecimal number. When there is no digital signal input, the status becomes indefinite. In the description below, the hexadecimal number data is expressed in the LSB first binary number.

#### • FIRST DATA

This data shows the FORMAT data and the EMPHASIS information.

When the DOLBY digital signal is input, the bit #0 is "1" and it becomes "0" when the PCM digital signal is input. When the signal source has the emphasis effect, the bit #2 status becomes "1".

#### SECOND DATA

This data shows the CATEGORY code of the digital signal.

#### THIRD DATA

This data shows the source and the channel No. of the digital signal.

#### FOURTH DATA

This data shows the sampling frequency of the digital signal. When it is 32kHz, the status of bit #0 and #1 is "1". When it is 44.1kHz, the status of bit #0 and #1 is "0". Also, when it is 48kHz, the status of bit #0 is "0" and that of #1 is "1".

#### (12) CENTER SPEAKER

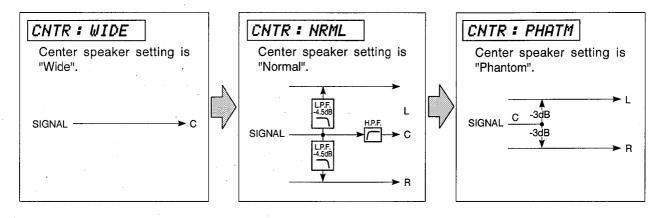
<FRONT PANEL DISPLAY>

12 DUD/LD CNTR:WIDE

The mode of the center speaker can be selected.

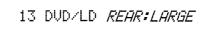
#### O Sub-menu

The center speaker setting can be selected among WIDE, NORMAL and PHANTOM.



#### (13) REAR SPEAKER

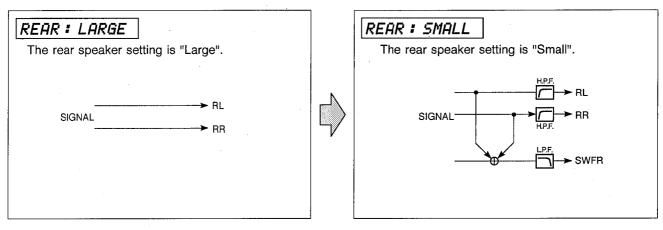
<FRONT PANEL DISPLAY>



The mode of the rear speaker can be selected.

#### O Sub-menu

The rear speaker setting can be selected between LARGE and SMALL.



#### (14) MAIN SPEAKER

<FRONT PANEL DISPLAY>

14 DVD/LD MAIN:LARGE

The mode of the main speaker can be selected.

#### O Sub-menu

The main speaker setting can be selected between LARGE and SMALL.

MAIN : LARGE The main speaker setting is "Large".	MAIN : SMALL The main speaker setting is "Small".
SIGNAL R	HPF. SIGNAL HPF. HPF. R HPF. SWFR

#### (15) BASS OUT

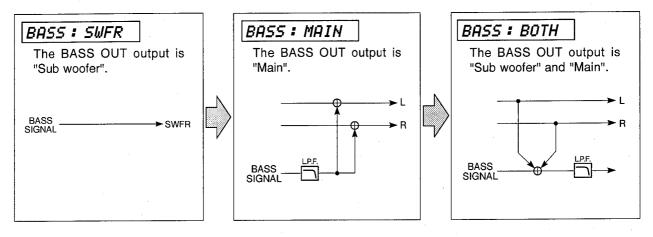
<FRONT PANEL DISPLAY>

15 DVD/LD *BASS:SWFR* 

The mode of the BASS output can be selected.

#### O Sub-menu

The BASS output setting can be selected among SWFR, MAIN and BOTH. The bass signal in the figures below is the low range component of LFE and the rear.



### AMP CHECK

### • Confirmation of Idling Current

1) No signal applied.

2) Non-loaded condition.

3) Aging is 10 minutes.

See page 52 to 54 for check points.

Item	Test Point	Rating (DC)
MAIN L	Q168 Base~Emitter (P.C.B. MAIN [1])	
MAIN R	Q171 Base~Emitter (P.C.B. MAIN [1] )	
CENTER	Q180 Base~Emitter (P.C.B. MAIN [1])	100mV~300mV
REAR L	Q174 Base~Emitter (P.C.B. MAIN [1] )	
REAR R	Q177 Base~Emitter (P.C.B. MAIN [1] )	
FRONT L	Q208 Base~Emitter (P.C.B. VIDEO [1])	100mV~350mV
FRONT R	Q214 Base~Emitter (P.C.B. VIDEO [1])	100117~350117

### **FACTORY PRESET**

All the settings of the system are initialized on shipping. The settings are as follows.

• INPUT (VIDEO)

DVD/LD (DVD/LD)

• ROOM 2 INPUT (VIDEO)

DVD/LD (DVD/LD)

#### • EFFECT LEVEL

EFFECT CHANNEL	PRESET VALUE	CONTROL RANGES		
FRONT	0 dB	MIN, -20dB - +10dB		
CENTER	0 dB	MIN, -20dB +10dB		
RIGHT SURROUND	0 dB	MIN, -20dB - +10dB		
LEFT SURROUND	0 dB	MIN, -20dB - +10dB		
SUB WOOFER	0 dB	MIN, -20dB - 0dB		

#### DSP PROGRAM

INPUT	DSP PROGRAM
PHONO	CONCERT HALL
CD	ROCK CONCERT
TUNER	DISCO
TAPE	JAZZ CLUB
DVD/LD	70mm/DIGITAL MOVIE THEATER
TV/DBS	TV SPORTS
VCR 1	ENHANCED
VCR 2	PRO LOGIC
VIDEO AUX	ENHANCED

#### • SET MENU

No.	SET MENU PRESET VALU		SETTING RANGES
1.	CENTER DELAY	0 ms	0 ms — 5 ms
2.	DYNAMIC RANGE	MAX	MAX/STD/MIN
3.	LFE LEVEL	0 dB	–20dB — 0dB
4.	CENTER SPEAKER	NORMAL	NORMAL/WIDE/PHANTOM
5.	REAR SPEAKER	SMALL	SMALL/LARGE
6.	MAIN SPEAKER	LARGE	SMALL/LARGE
7.	LFE/BASS OUT	SWFR (SUB WOOFER)	MAIN/SWFR/BOTH
8.	INPUT MODE (TV/DBS)	AUTO	AUTO/LAST

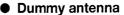
#### • PRESET STATIONS

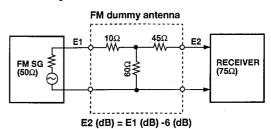
STATIC	STATION		FM FACTORY PRESET DATA (MHz)			STATION		TORY PRESET DATA (kHz)
PAGE	NO.	U, C, R	R, L, G, A, B	J	PAGE	NO.	U, C, R	R, L, G, A, B, J
	1	87.5	87.5	76.0		1	630	630
	2	90.1	90.1	83.0		2	1080	1080
	3	95.1	95.1	84.0		3	1440	1440
A/C/E	4	98.1	98.1	86.0	B/D	4	530	531
	5	107.9	108.0	90.0		5	1710	1611
	6	88.1	88.1	78.0		6	900	900
· · · ·	7	106.1	106.1	88.0		7	1350	1350
	8	107.9	108.0	82.1		8	1400	1404

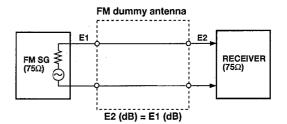
### TUNER ADJUSTMENTS

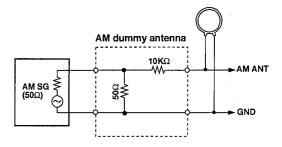
Measuring Instruments

FM signal generator (FM SG) Stereo signal generator (SSG) AM signal generator (AM SG) Distortion meter (DIST. M) AC voltmeter (ACVM) DC voltmeter (DCVM) Oscilloscope Low pass filter (YLF-15, fc=15kHz) Oscillator

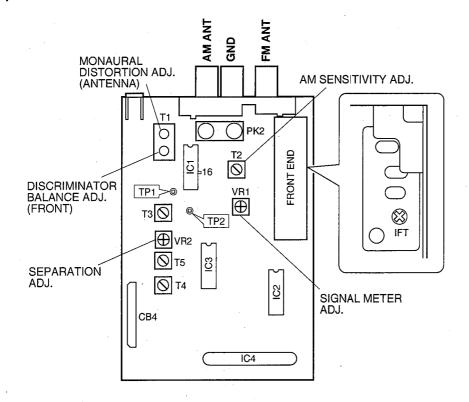








Test point



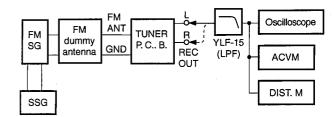
### **FM** Adjustment

#### • Before Adjustment

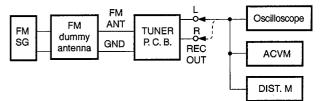
- 1) For dB,  $1\mu V=0dB\mu$
- Example : 60dBµ=1mV 2) 100% modulation means that the frequency deviation is ± 75kHz.
- 3) Install the Matching Transformer and connect FM SG. 4) Set each switch to the following position unless otherwise specified.

INPUT SELECTOR ......TUNER TUNING MODE ...... AUTO

#### 3) Stereo distortion adjustment/separation adjustment



#### 4) Sensitivity Verification



0.00	Adjustment item		Reception	Adjustment	Test point	Rating	
Step	Aujustment tiem	Signal (ANT IN)	frequency	point	rest point		
1	Rough adjustment of	FM ANT (75Ω)	98.1MHz	T1	Both ends of R25	DC 0V±100mV	
	discriminator balance	98.1MHz **	* (A-4)	(Front side core)	(Between TP1 and TP2)		
		70dBµ					
		MONO 1kHz					
		100% modulation					
2	Rough adjustment of	Same as Step 1.	98.1MHz	T1	REC OUT L, R	Minimize the dis-	
	monaural distortion	н. - Г.	* (A-4)	(Antenna side core)		tortion.	
3	Fine adjustment of	Same as Step 1.	98.1MHz	T1	Both ends of R25	DC 0V±50mV	
	discriminator balance	• •	* (A-4)	(Front side core)	(Between TP1 and TP2)		
4	Fine adjustment of	Same as Step 1.	98.1MHz		REC OUT L, R	Minimize the dis-	
	monaural distortion	•	*. (A-4)	(Antenna side core)		tortion (to 0.25%	
						or less).	
5	Verification of dis-	Same as Step 1.	98.1MHz	T1	Both ends of R25	DC 0V±50mV	
	criminator balance		* (A-4)	(Front side core)	(Between TP1 and TP2)		
		,			<u> </u>		

\* : Execution of FACTORY PRESET (Refer to page 16.) will facilitate setting reception frequency for adjustment.

\*\* Must be 98.1MHz ± 5kHz

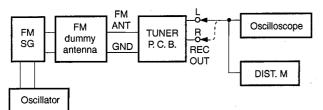
)

#### TP: FM ANT FM TUNER FM R25 dummy DCVM P. C. B. GND SG antenna TP2 Oscillator

• Connection diagram (Measuring instruments)

#### 2) Monaural distortion adjustment

1) Discriminator balance adjustment



### See page 25 for TP locations & adjustment points.

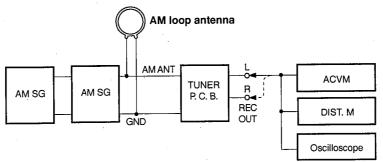
Step	Adjustment item	Signal (ANT IN)	Reception frequency	Adjusted point	Test point	Rating
6	Adjustment of front end IFT	FM ANT (75Ω) 98.1MHz	98.1MHz * (A-4)	Front end IFT	Pin 16 of IC1	Adjust so that the DC voltage is maximum.
		30dBμ	(,, ,,			CAUTION : Over-adjustment
		MONO				of the IFT core will reduce the
		1kHz,				sensitivity.
		100% modulation				Maximum ±90°
7	Verification of monau-	FM ANT (75Ω)	98.1MHz		REC OUT L, R	0.4% or less
-	ral distortion	98.1MHz	* (A-4)			
		70dBμ				
		MONO 1kHz,				
	а.	100% modulation				
8	Verification of stereo	FM ANT (75Ω)	98.1MHz	-	REC OUT L, R	1% or less
	distortion	98.1MHz	* (A-4)			STEREO indicator should
		70dBμ	* Tuning			light.
		Stereo L or R	mode			
		1kHz,	should be			
		100% modulation	AUTO.			
9	Verification of sensi-	FM ANT (75Ω)	88.1MHz		ANT (75Ω)	1) Set the tuning mode to
	tivity	88.1MHz	* (A-6)			MAN'L MONO. (Muting OFF)
		98.1MHz	98.1MHz			2) S/N should be 30dB at each
		106.1MHz	* (A-4)			frequency of 88.1MHz
		MONO 1kHz	106.1MHz			98.1MHz, and 106.1MHz.
		Modulation off	* (A-7)			3) Check to ensure that the
						voltage at the ANT termina
						is 3dBµ (14.25dBf) or less.
						(L only : 6dBµ or less)
10	Adjustment of	FM ANT (75Ω)	98.1MHz	VR2	REC OUT L, R	With SSG output at L or R, the
	Separation	98.1MHz	* (A-4)			signal leakage level at the
		70dBμ				other channel should be mini-
		Stereo Lor R				mized.
		1kHz,	1			36dB or more
		100% modulation				
11	Adjustment of Signal	FM ANT (75Ω)	98.1MHz	VR1		Adjust so that all segments
	meter	98.1MHz	* (A-4)			light.
	×	45dBμ				
		MONO 1kHz				
		30% modulation	_			
		–10dBµ or less				Check to ensure that signal
						meters turn OFF.
12	Verification of auto	FM ANT (75Ω)	98.1MHz		· .	<ul> <li>Automatic reception</li> </ul>
	tuning	98.1MHz				should be available when
		23dBµ				the tuning key is moved UP
		Stereo L or R				and DOWN.
		1kHz,				<ul> <li>The stereo indicator should</li> </ul>
		30% modulation	1			light.
			-	· · · ·		<ul> <li>Audio muting should be ap-</li> </ul>
	1		1	E Contraction of the second se	1	plied during tuning.

\* : Execution of FACTORY PRESET (Refer to page 16.) will facilitate setting reception frequency for adjustment.

#### AM Adjustment (This should be done after FM adjustment.)

#### • Connection Diagram (Measuring instruments)

1) Adjustment of sensitivity



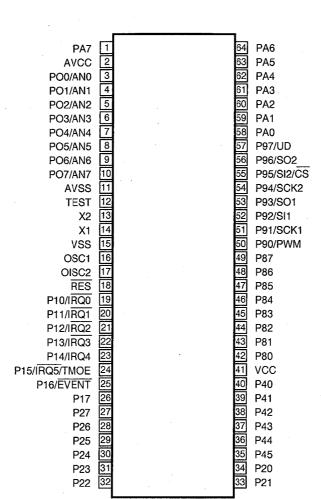
### See page 25 for TP locations & adjustment points.

Step	Adjustment item	Signal (ANT IN)	Reception frequency	Adjustment point	Test point	Rating
1	Adjustment of	AM ANT	1440kHz	T2	REC OUT	Audio output should be
	sensitivity	1440kHz	* (B-3)			maximized.
	(1440Hz)	50dBµ				
		1kHz				
		30% modulation				
2	Verification of	AM ANT	630kHz	T2	REC OUT	Audio output should be
-	sensitivity	630kHz	* (B-1)			maximized.
	(630kHz)	50dBµ				Repeat the Step 1 and 2.
		1kHz				
		30% modulation				
3	Verification of	AM ANT	630kHz		AM ANT	Distortion should be 10% or less at
	sensitivity	630kHz	* (B-1)			each frequency.
		1080kHz	1080kHz			Check to ensure that the voltage at
		1440kHz	* (B-2)			the ANT terminal is $54dB\mu$ or less.
		30% modulation	1440kHz			
			* (B-3)			
4	Verification of auto	AM ANT				Auto reception should be avail-
,	tuning	60dBµ				able when the tuning key is moved
						UP and DOWN.

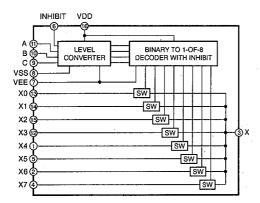
\* : Execution of FACTORY PRESET (Refer to page 16.) will facilitate setting reception frequency for adjustment.

### IC DATA

IC1 : HD6433614 8 bit μ-COM



#### IC2 : TC74HC4051AP (extended A/D input) Analog Multiplexer/Demultiplexer



INPUT	ST/	TE	S	"ON" CHANNEL (S)
INHIBIT	С	в	Α	ON CHANNEL (3)
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	Х	Х	Х	NONE

### 29

IC1 : HD6433614 8 bit μ-COM

No.	PORT	Name	Function	I/O	No.	PORT	Name	Function	I/O
1	PA7	/RMT	Mute control of ROOM 2	0	64	PA6	VRC	VIDEO REC. SEL. control C	0
2	AVCC	AVCC	Power supply for A/D	+5M	63	PA5	VRB	VIDEO REC. SEL. control B	0
3	AN0	4051	Extended A/D input	AD	62	PA4	VRA	VIDEO REC. SEL. control A	0
4	AN1	PRV	Power supply error detect	AD	61	PA3	VIC	VIDEO INPUT SEL. control C	0
5	AN2	PRD	Power amplifier output DC detect	AD	60	PA2	VIB	VIDEO INPUT SEL. control B	0
6	AN3	тнм	Radiator temperature detect	AD	59	PA1	VIA	VIDEO INPUT SEL. control A	0
7	AN4	VER	Model & destination discrimination input	AD	58	PA0	CES	Chip enable for super impose	0
8	P05	PRI	Power amplifier excess current detect	Ι	57	P97	CEL	Chip enable for IC made by SANYO (LC)	0
9	<sup>°</sup> P06	/ST	TUNER stereo detect	Ι	56	SO2	SDT	Send data to each type of IC	0
10	P07	O/C	COAX/OPT detect	Ι	55	SI2	RDT	Receive data from TUNER	1
11	AVSS	AVSS	GND for A/D	G	54	SCK2	SCK	Serial clock for each type of IC	0
12	TEST	TEST	Test terminal (unusable)	G	53	SO1	TXD	Send data to AC3F, HL3	0
13	X2	X2	Sub-clock (unused)	open	52	SI1	RXD	Receive data from AC3F	1
14	X1	X1	Sub-clock (unused)	+5M	51	SCK1	XCK	Serial clock for AC3F, HL3	0
15	VSS	VSS	GND for system	G	50	PWM	FAN	PWM output for fan drive	PWM
16	OSC1	OSC1	Ceramic oscillator connected	8M	49	P87	/CRS	Chip select for HL3	0
17	OSC2	OSC2	Ceramic oscillator connected	8M	48	P86	/CS	Chip select for AC3F	0
18	/RES	/RES	System reset	RES	47	P85	CLD	Chip select for DIR	0
19	/IRQ0	PDT	Power detect	IRQ	46	P84	ССК	Serial clock for DIR	0
20	/IRQ1	/DER	DIR lock and error detect	IRQ	45	P83	/IC	AC3F, etc. reset	0
21	/IRQ2	REM	Remote control light receive signal input	IRQ	44	P82	/ICD	DIR and FL reset	0
22	/IRQ3	RM2	External remote terminal input (unused)	IRQ	43	P81	/TMT	Tuner mute	0
23	IRQ4	AC3ER	AC3F error detect	IRQ	42	P80	CET	Chip enable for IC made by TOSHIBA (TC)	0
24	/IRQ5	VSY	Video vertical synchronous input	IRQ	41	VCC	VCC	Power supply for system	+5BU
25	P16	PSW	Power switch main unit key input	1	40	P40	ASA	Control A of extended A/D 4051	0
26	P17	CDO	Receive data from DIR	I	39	P41	ASB	Control B of extended A/D 4051	0
27	P27	I/E	Video synchronization discrimination output	0	38	P42	ASC	Control C of extended A/D 4051	0
28	P26	PRY	Power relay control	0	37	P43		GND	G
29	P25	SPB	Relay control of main speaker B	0	36	P44	/STBY	Standby discrimination and lighting output	1/0
30	P24	SPA	Relay control of main speaker A	0	35	P45	VIND	VOL. LED lighting output	0
31	P23	SPE	Relay control of other than SP. A/B	0	34	P20	VUP	VOL.UP control output	0
32	P22	/FMT	Full mute control	0	33	P21	VDN	VOL.DOWN control output	0

\* P40 through P45 are PMOS open drain input/output ports.

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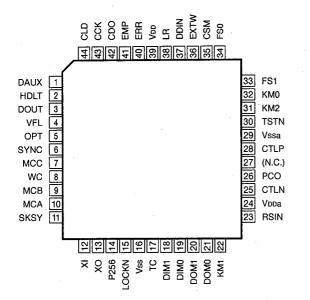
### IC2 : TC74HC4051AP (extended A/D input) Analog Multiplexer/Demultiplexer

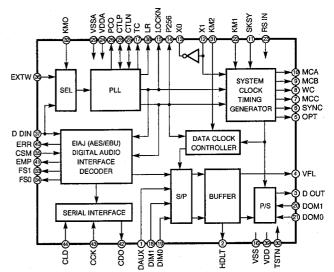
No.	PORT	Name	Function	1/0	No.	PORT	Name	Function	1/0
1	X4	K4	DSP & INPUT key input	AD	16	VCC	VCC	(+) power supply	+5M
2	X6	REC	REC OUT SEL input	AD	15	X2	K2	SP. A/B & DSP key input	AD
3	СОМ	COM	Feed port to microprocessor	0	14	X1	K1	SP. A/B & PRESET key input	AD
4	X7.	MTR	TUNER signal meter input (unused)	AD	13	X0	К0	TUNER & LEVEL key input	AD
5	X5	FSW *	Slide SW state input	AD	12	Х3	КЗ	PRESET & INPUT key input	AD
6	INH	INH	All channels open at Hi level	G	11	А	ASA	Control signal A from microprocessor	I
7	VEE	VEE	(-) power supply	G	10	В	ASB	Control signal B from microprocessor	1
8	GND	GND	GND	G	9	С	ASC	Control signal C from microprocessor	1

\* FSW = DEST(9kHz/10kHz) + P/N + FMX(5ch/7ch)

### IC3: YM3436DK

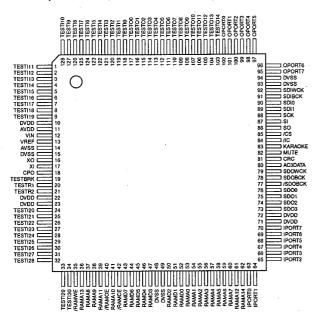
DIR ( Digital Format Interface Receiver )

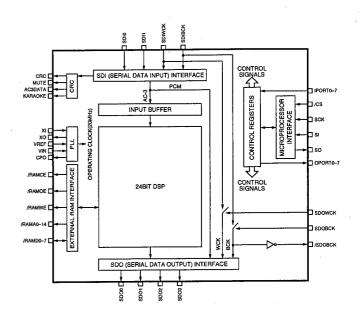




Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
1	DAUX	Ι	Auxiliary input for audio data	26	PCO	0	PLL phase comparison output
2	HDLT	0	Asynchronous buffer operation flag	27	(NC)		
3	DOUT	0	Audio data output	28	CTLP	1	VCO control input P
4	VFL	0	Parity flag output	29	Vssa		VCO section power (GND)
5	OPT	0	Fs x 1 Synchronous output signal for DAC	30	TSTN	1	Test terminal. Open for normal use
6	SYNC	0	Fs x 1 Synchronous output signal for DSP	31	KM2		Clock mode switching input 2
7	MCC	0	Fs x 64Bit clock output	32	KM0	1	Clock mode switching input 0
8	WC	0	Fs x 1Word clock output	33	FS1	0	Channel status sampling frequency display
9	MCB	0	Fs x 128Bit clock output	33	51	0	output 1
10	MCA	0	Fs x 256Bit clock output	34	FS0	0	Channel status sampling frequency display
11	SKSY	1	Clock synchronization control input	34	P30	0	output 0
			Crystal oscillator connection or external	35	CSM		Channel status output method selection
12	XI	1	clock input		EVTW/		External synchronous auxiliary input word
13	XO	0	Crystal oscillator connection	36	EXTW		clock
14	P256	0	VCO oscillator clock connection	37	DDIN	1	EIAJ (AES/EBU) data input
15	LOCKN	0	PLL lock flag	38	LR	0	PLL word clock output
16	Vss		Logic section power (GND)	39	Vdd		Logic section power (+5V)
17	тс	0	PLL time constant switching output	40	ERR	0	Data error flag output
18	DIM1	1	Data input mode selection			0	Channel status emphasis control code
19	DIM0	1	Data input mode selection	41	EMP		output
20	DOM1	1	Data output mode selection	40	000	0	3-wire type microcomputer interface data
21	DOM0	. 1	Data output mode selection	42	42 CDO		output
22	KM1	I	Clock mode switching input 1	40		1	3-wire type microcomputer interface clock
23	RSTN	I	System reset input	43	43 CCK		output
24	VDDa		VCO section power (+5V)				3-wire type microcomputer interface load
25	CTLN	1	VCO control input N	44	CLD		input

#### IC4 : YSS243B AC3F ( AC-3 5.1ch Full Decoder )





No.	Name	I/O	Function
1	TESTI11	1+	LSI test terminal (normally unconnected)
2	TESTI12	1+	LSI test terminal (normally unconnected)
3	TESTI13	+	LSI test terminal (normally unconnected)
4	TESTI14	l+	LSI test terminal (normally unconnected)
5	TESTI15	1+	LSI test terminal (normally unconnected)
6	TESTI16	+	LSI test terminal (normally unconnected)
7	TESTI17	1+	LSI test terminal (normally unconnected)
8	TESTI18	1+	LSI test terminal (normally unconnected)
9	TESTI19	1+	LSI test terminal (normally unconnected)
10	DVDD		+5V power supply (digital section)
11	AVDD		+5V power supply (for analog circuit in PLL section)
12	VIN	AL	PLL input terminal, connected to CPO through external analog filter)
13	VREF	AI	PLL input terminal, connected to AVDD through external analog filter)
14	AVSS		Ground (for analog circuit in PLL section)
15	DVSS		Ground (digital section)
16	ХО	0	Crystal oscillator connecting terminal
17	XI	I	Crystal oscillator connecting terminal or external clock input terminal (2.5MHz - 40.0MHz)
18	CPO	AO	PLL output terminal, connected to VIN through external analog filter)
19	TESTBRK	l+	LSI test terminal (normally unconnected)
20	TESTR1	l+	LSI test terminal (normally unconnected)
21	TESTR2	+	LSI test terminal (normally unconnected)
22	DVDD		+5V power supply (digital section)
23	DVDD		+5V power supply (digital section)
24	TESTI20	+	LSI test terminal (normally unconnected)
25	TESTI21	I+	LSI test terminal (normally unconnected)
26	TESTI22	1+	LSI test terminal (normally unconnected)
27	TESTI23	l+	LSI test terminal (normally unconnected)
28	TESTI24	l+	LSI test terminal (normally unconnected)
29	TESTI25	l+	LSI test terminal (normally unconnected)
30	TESTI26	1+	LSI test terminal (normally unconnected)

#### IC4 : YSS243B AC3F ( AC-3 5.1ch Full Decoder )

No.	Name	I/O	Function
31	TESTI27	- 1+	LSI test terminal (normally unconnected)
32	TESTI28	1+	LSI test terminal (normally unconnected)
33	TESTI29	1+	LSI test terminal (normally unconnected)
34	TESTI30		LSI test terminal (normally unconnected)
35	/RAMWE	0	External SRAM write enable signal, "L" active
36	RAMA13	0	External SRAM address output, address 13
37	RAMA8	0	External SRAM address output, address 8
38	RAMA9	0	External SRAM address output, address 9
39	RAMA11	0	External SRAM address output, address 5
40	/RAMOE	0	External SRAM output enable signal, "L" active
40	RAMA10	0	External SRAM address output, address 10
41	/RAMCE		External SRAM address output, address 10
42	RAMD7	0	
		1/0	External SRAM data terminal, data bus 7
44	RAMD6	I/O	External SRAM data terminal, data bus 6
45	RAMD5	1/0	External SRAM data terminal, data bus 5
46	RAMD4	1/0	External SRAM data terminal, data bus 4
47	RAMD3	1/0	External SRAM data terminal, data bus 3
48	DVSS		Ground (digital section)
49	DVSS		Ground (digital section)
50	RAMD2	1/0	External SRAM data terminal, data bus 2
51	RAMD1	I/O	External SRAM data terminal, data bus 1
52	RAMD0	I/O	External SRAM data terminal, data bus 0
53	RAMA0	0	External SRAM address output, address 0
54	RAMA1	0	External SRAM address output, address 1
55	RAMA2	0	External SRAM address output, address 2
56	RAMA3	0	External SRAM address output, address 3
57	RAMA4	0	External SRAM address output, address 4
58	RAMA5	0	External SRAM address output, address 5
59	RAMA6	0	External SRAM address output, address 6
60	RAMA7	0	External SRAM address output, address 7
61	RAMA12	0	External SRAM address output, address 12
62	RAMA14	0	External SRAM address output, address 14
63	IPORT0	+	DIR sampling frequency input 0 (FS0)
64	IPORT1	+	DIR sampling frequency input 1 (FS1)
65	IPORT2	+	General purpose input terminal
66	IPORT3	+	General purpose input terminal
67	IPORT4		DIR pre-emphasis detect (EMP)
68	IPORT5		General purpose input terminal
69	IPORT6	+	General purpose input terminal
70	IPORT7	+	General purpose input terminal
70	DVDD		+5V power supply (digital section)
72	DVDD		+5V power supply (digital section)
73			PCM output terminal (MIX0, MIX1 output)
	SDO3	0	
74	SDO2	0	PCM output terminal (C, LFE output)
75	SDO1	0	PCM output terminal (LS, RS output)
76	SDO0	0	PCM output terminal (L, R output)
77	/SDOBCK	0	Inverted signal of SDOBCK output
78	SDOBCK	+  +	SDO output signal bit clock input terminal
79	SDOWCK	+	SDO output signal word clock input terminal
80	AC3DATA	0	AC-3 bit stream data detect terminal
81	CRC	0	CRC error detect terminal (when decoding AC-3 bit stream data)

RX-V2092

#### IC4 : YSS243B AC3F ( AC-3 5.1ch Full Decoder )

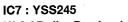
No.	Name	1/0	Function
82	MUTE	0	Output data mute detect terminal
83	KARAOKE	0	AC-3 karaoke data detect terminal
84	/IC	ls	Initial clear terminal
85	//CS	ls	Microprocessor interface chip select input terminal
86	so	0	Microprocessor interface serial data output terminal
87	SI	ls	Microprocessor interface serial data input terminal
88	SCK	ls	Microprocessor interface serial clock input terminal
89	SDI1	- 15	AC-3 bit stream (or PCM) data input terminal
90	SDI0		AC-3 bit stream (or PCM) data input terminal
91	SDIBCK		Bit clock input terminal for SDI input signal
92	SDIBCK		Word clock input terminal for SDI input signal
92	DVSS		Ground (digital section)
93	DVSS		Ground (digital section)
	OPORT7	0	
95	OPORT6	0	General purpose output terminal DIGITAL INPUT SELECTOR control signal B (DIB)
96		0	DIGITAL INPUT SELECTOR control signal A (DIA)
97	OPORT5		Switching DIR forced internal synchronization (KM1)
98	OPORT4	0	
99	OPORT3	0	DAC MUTE control signal (DMT)
100	OPORT2	0	De-emphasis control signal 1 to DAC (EMP1)
101	OPORT1	0	De-emphasis control signal 0 to DAC (EMP0)
102	OPORT0	0	Control signal to switch master clock of AC3F output master clock (CLKS)
103	TESTO14	0	LSI test terminal (normally unconnected)
104	TESTO13	0	LSI test terminal (normally unconnected)
105	TESTO12	0	LSI test terminal (normally unconnected)
106	TESTO11	0	LSI test terminal (normally unconnected)
107	TESTO10	0	LSI test terminal (normally unconnected)
108	TESTO9	0	LSI test terminal (normally unconnected)
109	TESTO8	0	LSI test terminal (normally unconnected)
110	TESTO7	0	LSI test terminal (normally unconnected)
111	TESTO6	0	LSI test terminal (normally unconnected)
112	TESTO5	0	LSI test terminal (normally unconnected)
113	TESTO4	0	LSI test terminal (normally unconnected)
114	TESTO3	0	LSI test terminal (normally unconnected)
115	TESTO2	0	LSI test terminal (normally unconnected)
116	TESTO1	0	LSI test terminal (normally unconnected)
117	TESTO0	0	LSI test terminal (normally unconnected)
118	TESTI0	+	LSI test terminal (normally unconnected)
119	TESTI1	l+	LSI test terminal (normally unconnected)
120	TESTI2	l+	LSI test terminal (normally unconnected)
121	TESTI3	l+	LSI test terminal (normally unconnected)
122	TESTI4	l+	LSI test terminal (normally unconnected)
123	TESTI5	l+	LSI test terminal (normally unconnected)
124	TESTI6	l+	LSI test terminal (normally unconnected)
125	TESTI7	l+	LSI test terminal (normally unconnected)
126	TESTI8	I+	LSI test terminal (normally unconnected)
127	TESTI9	+-	LSI test terminal (normally unconnected)
128	TESTI10	1+	LSI test terminal (normally unconnected)

AI : Input AO : Output

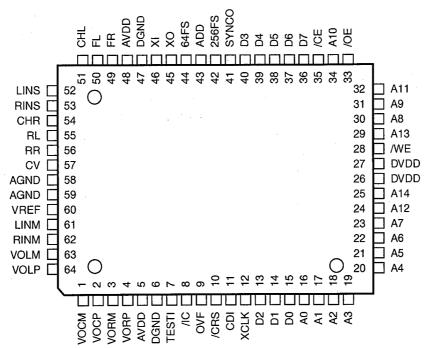
)

uipui i+

I+ : Built-in pull up resistance Is : Schmidt input



HL3 (Dolby-Pro-Logic Decoder + DSP)



No.	Name	I/O	Function
1	VOCM	AO	Cch multiplying DAC (-) side output, connected to (-) terminal of Cch operation amplifier
2	VOCP	AO	Cch multiplying DAC (+) side output, connected to (+) terminal of Cch operation amplifier
3	VORM	AO	Rch multiplying DAC (-) side output, connected to (-) terminal of Rch operation amplifier
4	VORP	AO	Rch multiplying DAC (+) side output, connected to (+) terminal of Rch operation amplifier
5	AVDD		+5V power supply (analog section)
6	DGND		Ground (digital section)
7	TESTI	lc	Test terminal, connected to DGND
8	/IC	lcs	Initial clear terminal
9	OVF	0	Input (LINS, RINS or ADD) overflow detect terminal
10	/CRS	Its	Serial microprocessor interface reset terminal
11	CDI	lts	Serial microprocessor interface data input terminal
12	XCLK	lts	Serial microprocessor interface clock terminal
13	D2	lt/O	External PSRAM terminal, connected to external PSRAM data terminal
14	D1	lt/O	External PSRAM terminal, connected to external PSRAM data terminal
15	D0	lt/O	External PSRAM terminal, connected to external PSRAM data terminal
16	A0	0	External PSRAM terminal, connected to external PSRAM address terminal
17	A1	0	External PSRAM terminal, connected to external PSRAM address terminal
18	A2	0	External PSRAM terminal, connected to external PSRAM address terminal
19	A3	0	External PSRAM terminal, connected to external PSRAM address terminal
20	A4	0	External PSRAM terminal, connected to external PSRAM address terminal
21	A5	0	External PSRAM terminal, connected to external PSRAM address terminal
22	A6	0	External PSRAM terminal, connected to external PSRAM address terminal
23	A7	0	External PSRAM terminal, connected to external PSRAM address terminal
24	· A12	0	External PSRAM terminal, connected to external PSRAM address terminal
25	A14	0	External PSRAM terminal, connected to external PSRAM address terminal
26	DVDD		+5V terminal (digital section)

#### IC7 : YSS245 HL3 ( Dolby-Pro-Logic Decoder + DSP )

27       DVDD       +5V terminal (digital section)         28       //WE       O       External PSRAM terminal, connected to external PSRAM didress terminal         29       A13       O       External PSRAM terminal, connected to external PSRAM address terminal         30       A8       O       External PSRAM terminal, connected to external PSRAM address terminal         31       A9       O       External PSRAM terminal, connected to external PSRAM address terminal         32       A11       O       External PSRAM terminal, connected to external PSRAM address terminal         33       /OE       O       External PSRAM terminal, connected to external PSRAM /OE terminal         34       A10       O       External PSRAM terminal, connected to external PSRAM /OE terminal         35       //CE       O       External PSRAM terminal, connected to external PSRAM data terminal         36       D7       II/O       External PSRAM terminal, connected to external PSRAM data terminal         38       D6       II/O       External PSRAM terminal, connected to external PSRAM data terminal         39       D4       II/O       External PSRAM terminal, connected to external PSRAM data terminal         40       D3       II/O       External PSRAM terminal, connected to external PSRAM data terminal         41       SYNCO	
29A13OExternal PSRAM terminal, connected to external PSRAM address terminal30A8OExternal PSRAM terminal, connected to external PSRAM address terminal31A9OExternal PSRAM terminal, connected to external PSRAM address terminal32A11OExternal PSRAM terminal, connected to external PSRAM address terminal33/OEOExternal PSRAM terminal, connected to external PSRAM address terminal34A10OExternal PSRAM terminal, connected to external PSRAM dadress terminal35/CEOExternal PSRAM terminal, connected to external PSRAM dadress terminal36D7It/OExternal PSRAM terminal, connected to external PSRAM data terminal37D6It/OExternal PSRAM terminal, connected to external PSRAM data terminal38D5It/OExternal PSRAM terminal, connected to external PSRAM data terminal39D4It/OExternal PSRAM terminal, connected to external PSRAM data terminal40D3It/OExternal PSRAM terminal, connected to external PSRAM data terminal41SYNCOOfs (word) clock output terminal for external A/D converter42256FSO256fs clock output terminal for external A/D converter43ADDItData input terminal for external A/D converter4464FSO64fs clock output terminal for external A/D converter45XOOCrystal oscillator connecting terminal46XIIcCrystal oscillator connecting terminal <td< th=""><th></th></td<>	
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56     RR     AO     RRch built-in D/A output terminal       57     CV     AO     Built-in A/D, D/A center potential output terminal	
57 CV AO Built-in A/D, D/A center potential output terminal	
58 AGND Ground (analog section)	
59 AGND Ground (analog section)	
60 VREF AI Built-in multiplying DAC reference potential input terminal	
61 LINM AI Lch built-in multiplying DAC input terminal	
62 RINM AI Rch built-in multiplying DAC input terminal	
63 VOLM AO Lch multiplying DAC (-) side output, connected to Lch operation amplifier (-) terminal	
64 VOLP AO Lch multiplying DAC (+) side output, connected to Lch operation amplifier (+) terminal	

Note : Letters used in the above I/O column represent as follows.

Ic : CMOS level input terminal

It : TTL level input terminal

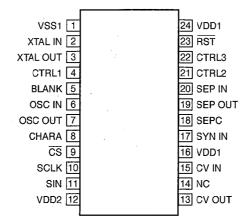
Is : Schmidt trigger input terminal

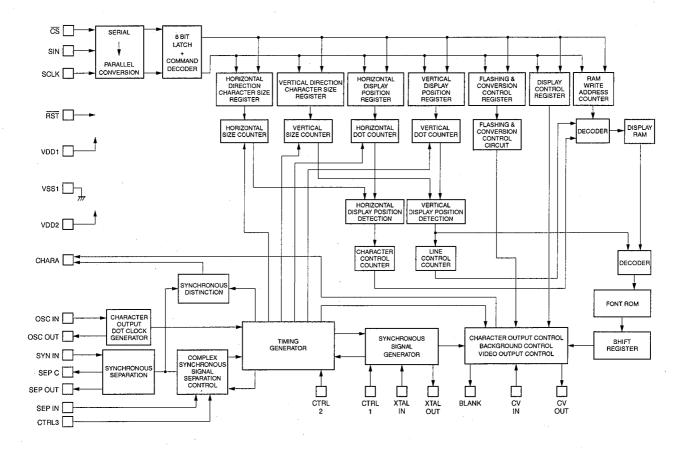
O : Digital output terminal

AI : Analog input terminal

AO : Analog output terminal

IC611 : LC74781-9626 Superimpose

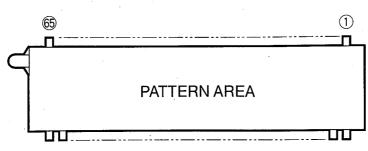




Pin No.	Symbol	Terminal name	Function
1	VSS1	Ground terminal	Connection to GND (Digital system ground terminal)
2	XTAL IN	Crystal oscillation	Terminal to connect the crystal of the crystal oscillator for internal synchronous
3	XTAL OUT	terminal	signal generation and a capacitor or to input an external clock. (2fsc or 4fsc)
4	CTRL1	Crystal oscillation input	Switching terminal between the mode to input a clock externally and the mode
		switching terminal	for crystal oscillation. [L] = Crystal oscillation, [H] = External clock input
5	BLANK	Blank output terminal	Terminal to output the blank signal (character and bordering OR signal) (MOD0 :
			complex synchronous signal output at [H]). When resetting (RST terminal = [L]),
			a crystal oscillation clock is output (but not when resetting by the command).
6	OSC IN	LC oscillation terminal	Terminal to connect the coil of the oscillator for character output dot clock
7	OSC OUT		generation and a capacitor.
8	CHARA	Character output terminal	Terminal to output a character signal (MOD0 : It becomes an output terminal to
			judge the external synchronous signal at [H] and outputs the result after judging
			existence of the external synchronous signal. When a synchronous signal exists,
			[H] is output.) When resetting (RST terminal = [L]), a dot clock (LC oscillation) is
			output (but it is not output when reset by the command.)
9	/CS	Enable input terminal	Serial data input enable input terminal. The serial data input becomes enable at
			[L]. A pull-up resistor is built in (hysteresis input).
10	SCLK	Clock input terminal	Input terminal of clock for serial data input.
			A pull-up resistor is built in (hysteresis input).
11	SIN	Data input terminal	Serial data input terminal. A pull-up resistor is built in (hysteresis input).
12	VDD2	Power supply terminal	Power supply terminal for complex image signal level adjustment (Power supply
			for analog system)
13	CV OUT	Video signal output terminal	Output terminal for complex image signal.
14	NC		Connected to GND or unconnected.
15	CV IN	Video signal input terminal	Input terminal for complex image signal.
16	VDD1	Power supply terminal	Power supply terminal (+5V : power supply for digital system)
17	SYN IN	Synchronous separation	Video signal input terminal of the built-in synchronous separation circuit (When
		circuit input terminal	the built-in synchronous separation circuit is not used, it becomes a horizontal
			synchronous signal input or a complex synchronous signal input.)
18	SEP C	Synchronous separation	Terminal to monitor built-in synchronous separation circuit bias voltage.
		circuit bias voltage terminal	
19	SEP OUT	Complex synchronous	Terminal to output a complex synchronous signal of built-in synchronous
		signal output terminal	separation circuit ([H] when internally synchronized at MOD1 : [H], [L] output
			when externally synchronized) (When the built-in synchronous separation circuit
			is not used, SYNIN input signal is output.)
20	SEP IN	Vertical synchronous	Terminal to input a vertical synchronous signal by integrating the output signal of
		signal input terminal	SEPOUT terminal. Connect the integration circuit between SEPOUT terminals.
			Fix it to VDD1 when not used.
21	CTRL2	NTSC/PAL-M switching	Pin setting has a priority over switching of NTSC/PAL/PAL-M/PAL-N method.
		input terminal	The NTSC method is selected after [L]= reset.
			NTSC/PAL/PAL-M/PAL-N method setting by a command is effective.
			[H] = PAL-M method.
22	CTRL3	SEPIN input control terminal	Terminal to control whether or not to input VSYNC signal into SEPIN input
			terminal. [L] = VSYNC inputted, [H] = VSYNC not inputted.
23	/RST	Reset input terminal	System reset input terminal. A pull-up resistor is built in (hysteresis input).
24	VDD1	Power supply terminal (+5V)	Power supply terminal (+5V : power supply for digital system)

#### ■ DISPLAY DATA (VV261900)

#### • V901 : 15-BT-28GK



#### • PIN CONNECTION

Pin No.	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47
Connection	. F2	F2	NP	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P22	P23	P24	P25	P26
Pin No.	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28
Connection	P27	P28	P29	P30	P31	P32	P33	P34	P35	IC	NP	Fd	Fd	Np	IC	P36	P37	P38	P1
Pin No.	27	26	25	24	23	22	21	20	19	18	17	16	15	- 14	13_	12	11	10	9
Connection	P2	P3	P4	P5	P6	P7	P8	P9	P10	15G	14G	13G	12G	11G	10G	9G	8G	7G	6G
Pin No.	8	7	6	5	4	3	2	1											
Connection	5G	4G	3G	2G	1G	NP	F1	F1											
lote 1) F1, F2	Fila	ament	3)	NC	N	lo Coni	nection	5)	1G~1	5G	Grid								

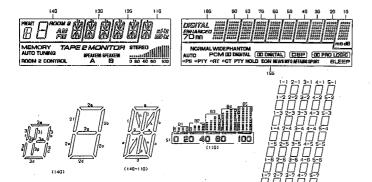
2) NP ..... No Pin

4) P1~P38 ..... Datum Line

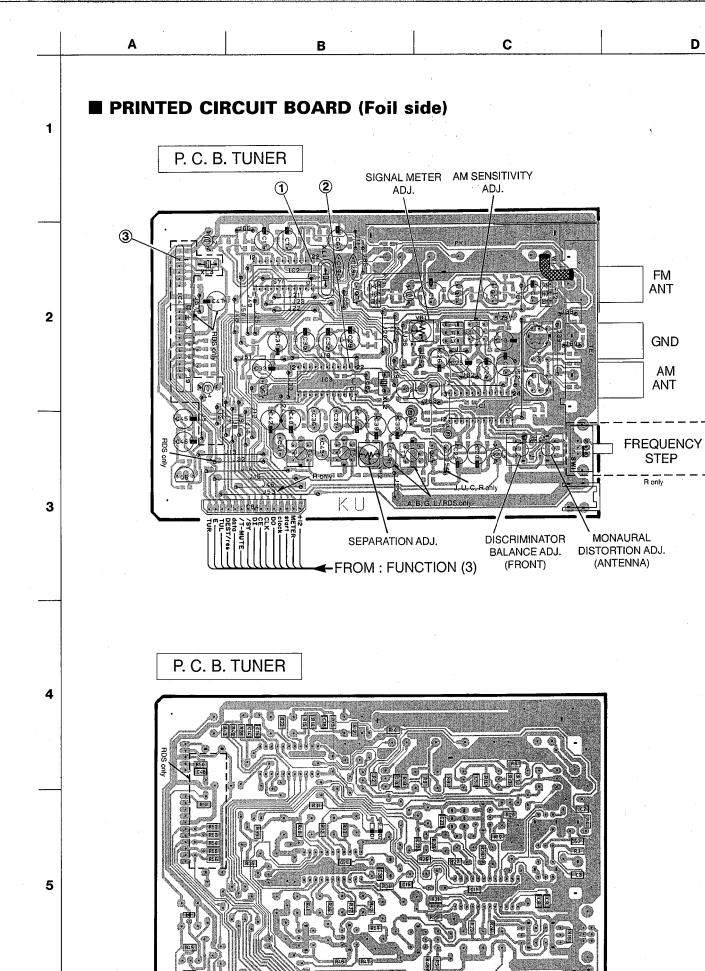
5) 1G~15G ..... Grid 6) IC ..... Internal connection

ANODE CONNECTION

#### • GRID ASSIGMENT



<u> </u>	150			· · · · · · · · ·			
$\geq$	15G		136,126	110	10G	9G~2G	1G
<u>P1</u>		la	1a	a	1-1	1-1	1-1
_P2	-	1h	1h	h	2-1	2-1	2-1
P3			<u>1j</u>	j	3-1	3-1	3-1
P4		<u> 1k</u>	1 k	ĸ	4-1	4-1	4-1
PS	-	16	16	b	5-1	5-1	5-1
P6	-	1 f	1 f	f	1-2	1-2	1-2
P7	-	1 m	1 m	m	2-2	2-2	2-2
P8	-	1 g	1 g	g	3-2	3-2	3-2
P9	<b>–</b> .	1 c	10	c	4-2	4-2	4-2
P10	-	1e	1e	е	5-2	5-2	5-2
P11	-	۱n	10	n	1-3	1-3	1-3
P12	-	1 p	10	Ω	2-3	2-3	2-3
P13	NORMAL	1 r	1 r	r	3-3	3-3	3-3
P14	WIDE	1 d	10	d	4-3	4-3	4-3
P15	PHANTOM	ROOM 2	2a	KH2	5-3	5-3	5-3
P16	DKD	AM	2h	MHz	1-4	1-4	1-4
P17	PCM	FM	2j	STEREO	2-4	2-4	2-4
P18	DIGITAL I	2a	2k	B1	3-4	3-4	3-4
P19	(DIGITAL)	25	25	82	4-4	4-4	4-4
P20		2f	2f	83	5-4	5-4	5-4
P21	(DI PRO LOGIC)	2g	2 m	84	1-5	1-5	1-5
P22	AUTO	2c	2g	85	2-5	2-5	2-5
P23	(PS)	2e	2c .	S1	3-5	3-5	3-5
P24	PS	2d	2e	MONTOP	4-5	4-5	4-5
P25	0 (PTY)	PRESET	2n	2	5-5	5-5	5-5
P26	PTY	Зa	2p	SPEAKERS 🙈	1-6	1-6	1-6
P27	C (RT)	<u>3</u> 6,3c	2 r	SPEAKERS 🕲	2-6	2-6	2-6
P28	AT	Зd	2d	MEMORY	3-6	3-6	3-6
P29	<u>а</u> (ст)	3e,3f	-	AUTO TUNING	4-6	4-6	4-6
P30	CT	Зg	-	ROOM 2 CONTROL	5-6	5-6	5-6
P31	PILA HOFO	3ј,3р	-	-	1-7	1-7	1-7
P32	EON	3m		-	2-7	2-7	2-7
P33	HEWS	-	-		3-7	3-7	3-7
P34	SHF0	-	-	-	4-7	4-7	4-7
P35	AFFAIRS	-	-	-	5-7	5-7	5-7
P36	SPORT	-	-	-	DIGITAL	-	ත්ම
P37	BLEEP	-	-		ENHANCED		m8
P38	-	-	-	-	70 mm	-	



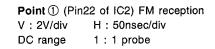
166666666

6

ΚU

A, B, G, L / RDS only

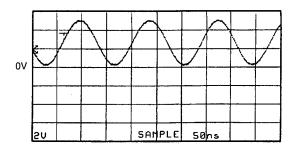
ю. С



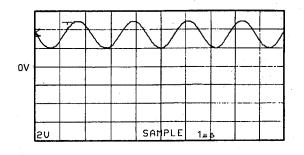
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D

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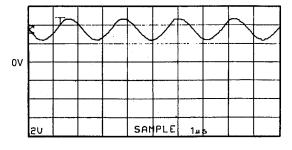


Point ③ (Pin1 of IC4) V:5V/div H:1 µsec/div DC range 1:1 probe



40

6-0

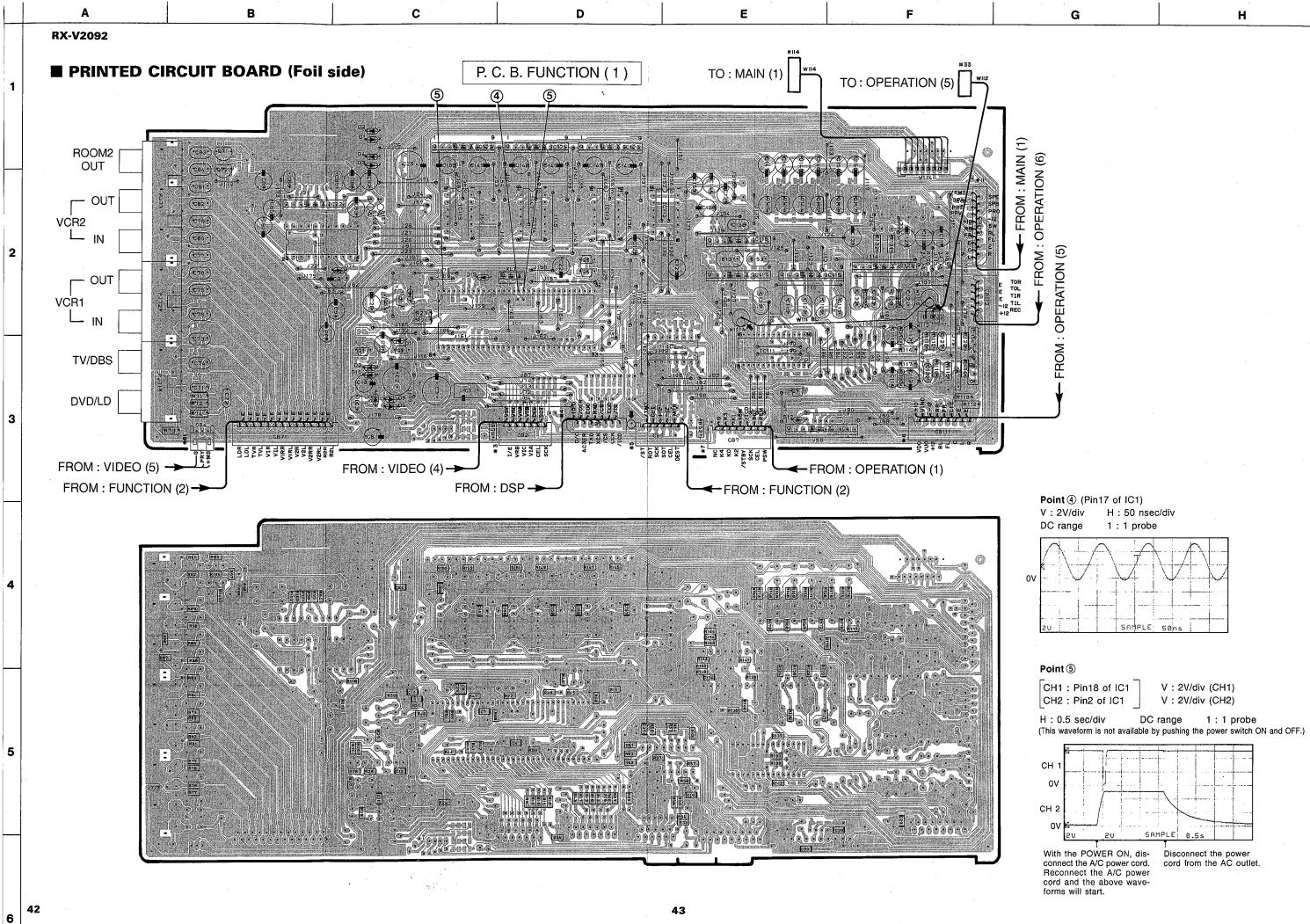


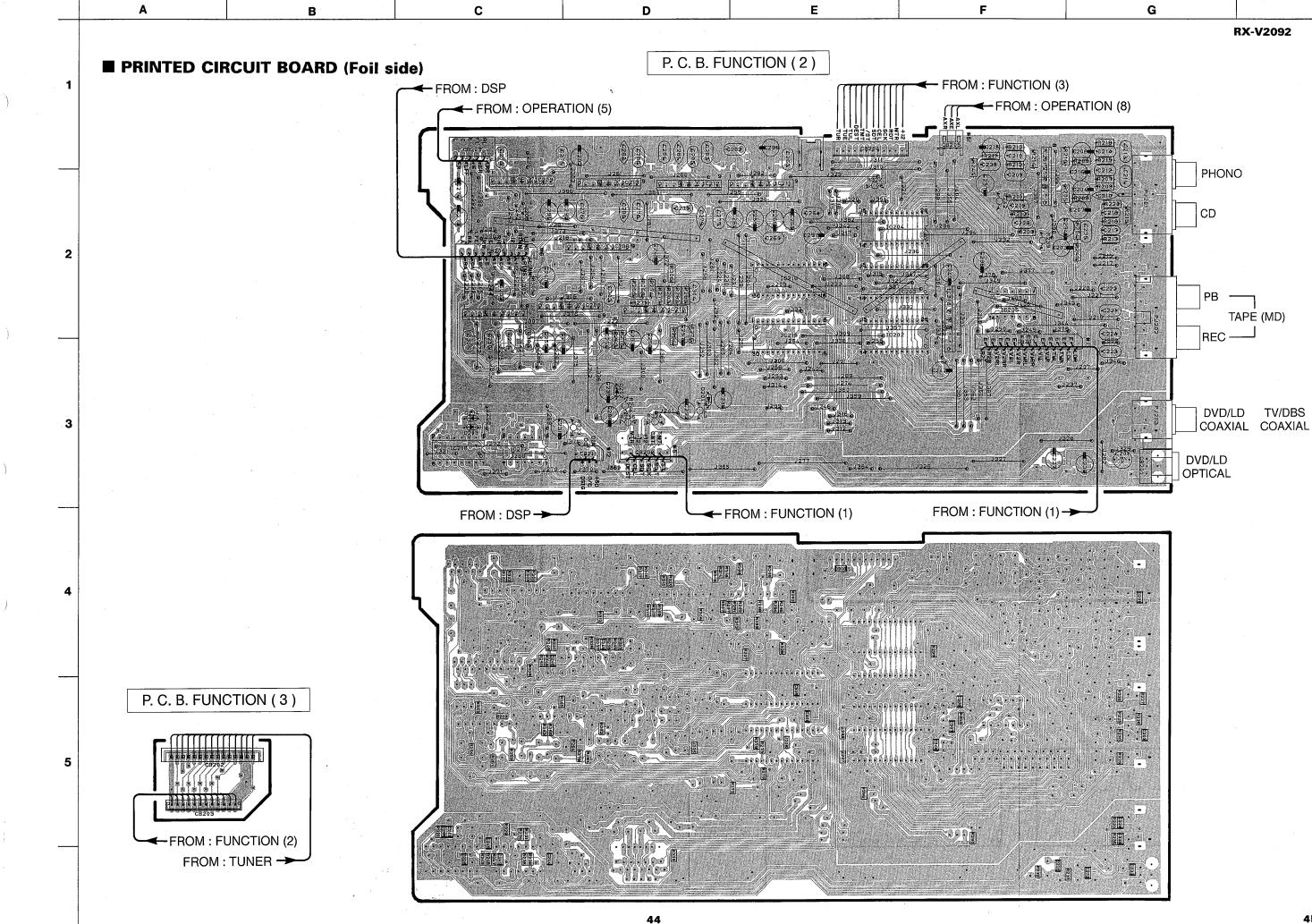
Point ② (Pin21 of IC3) V : 2V/div H : 1µsec/div DC range 1:1 probe

RX-V2092

H

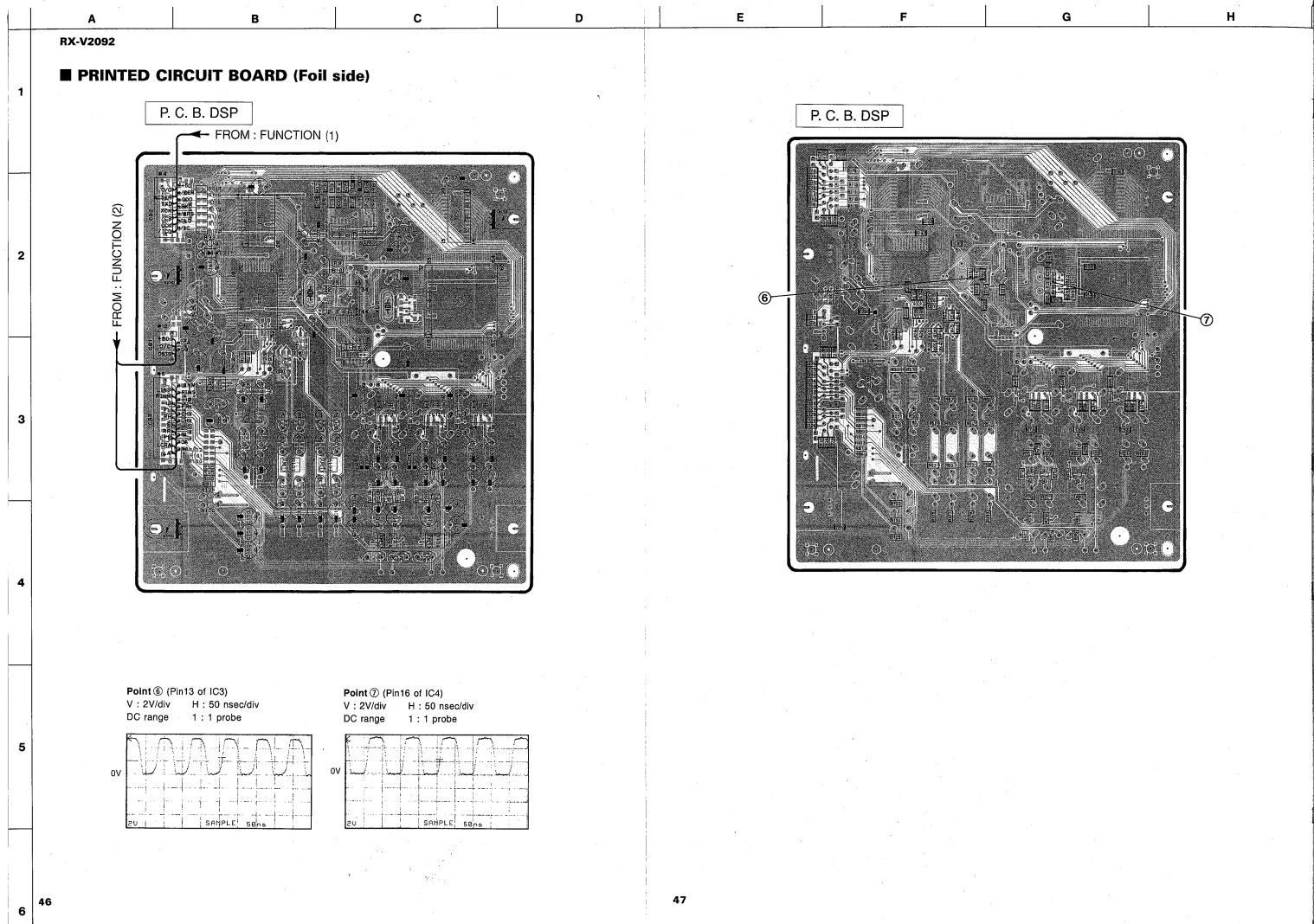
G

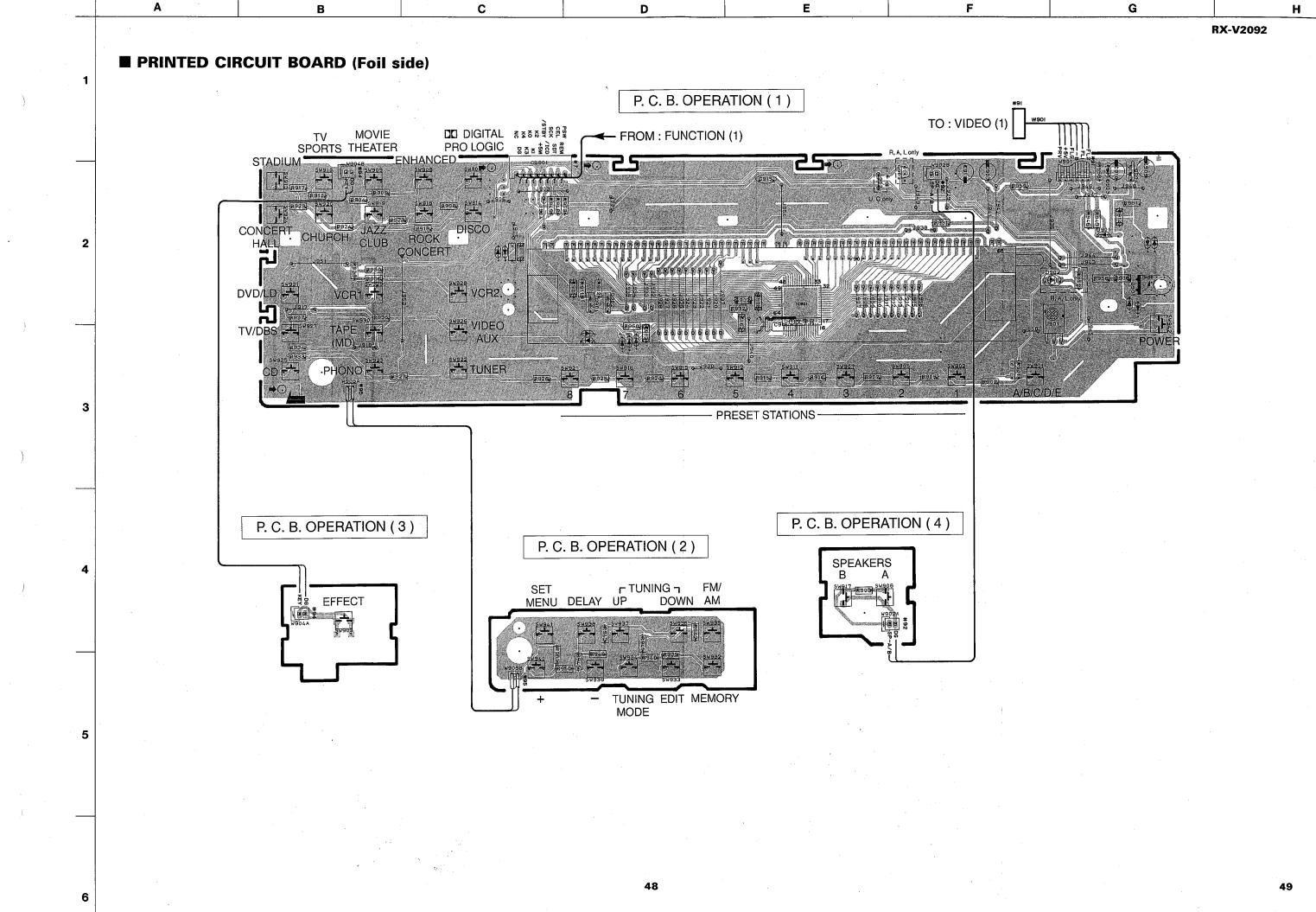


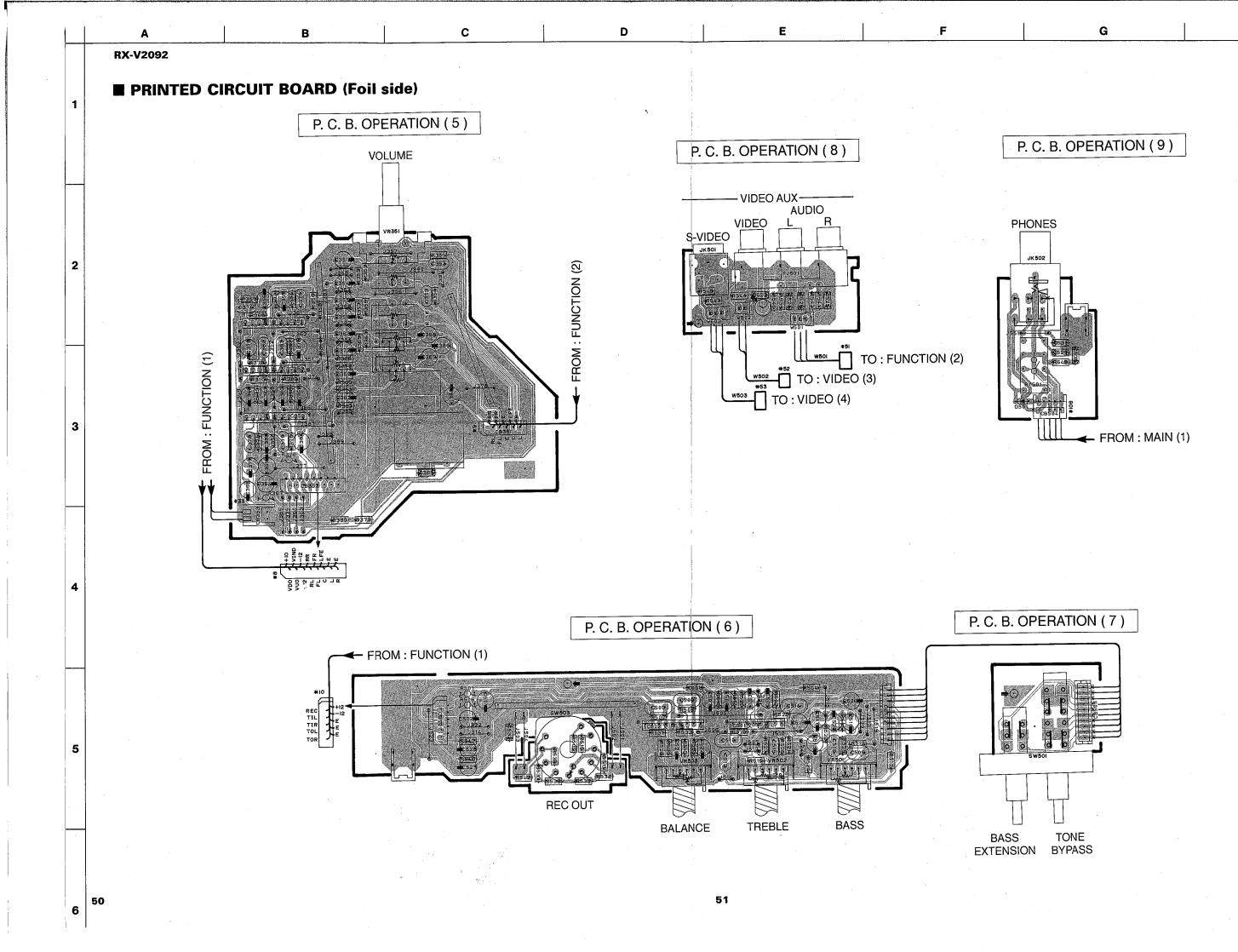


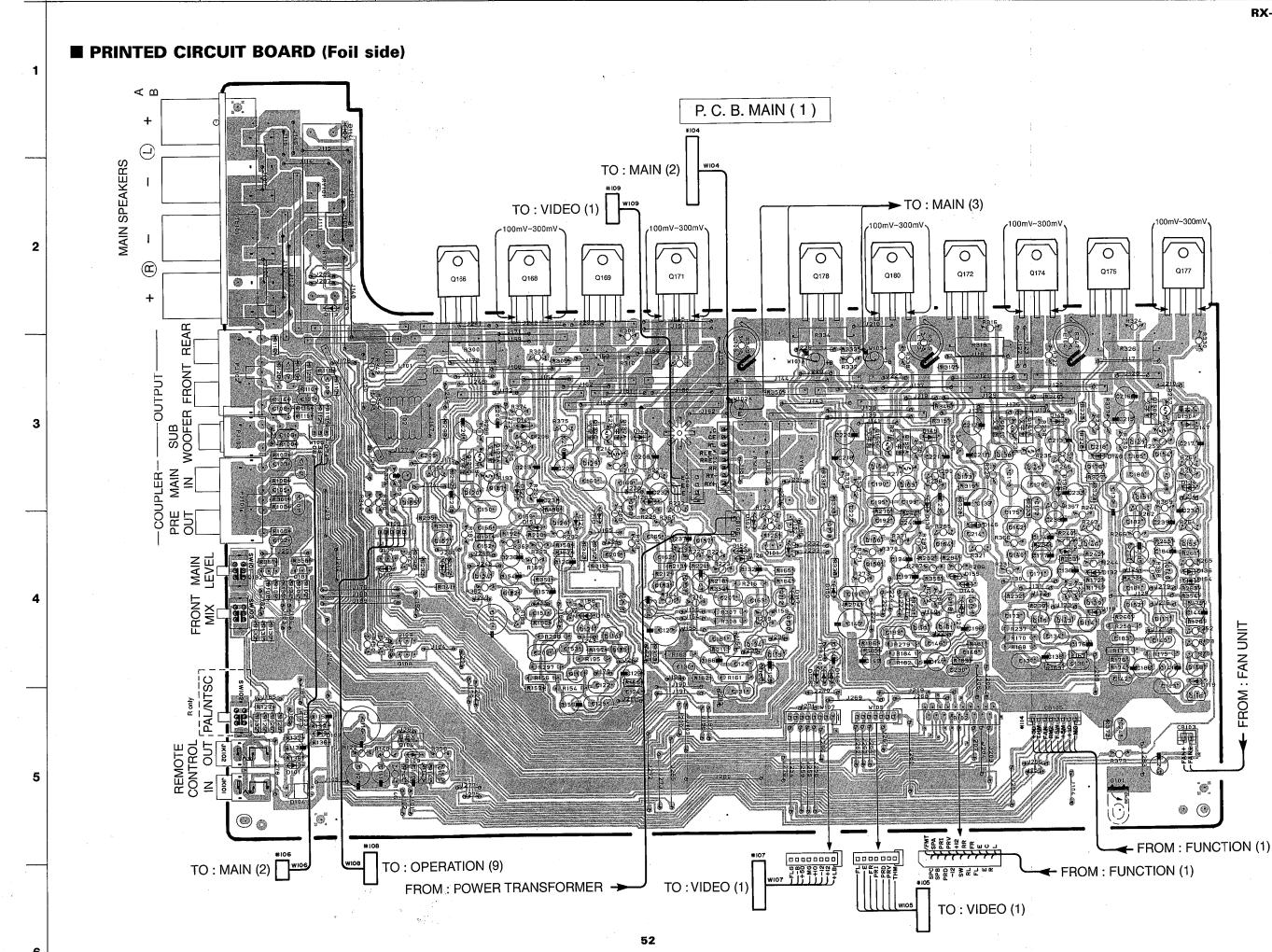
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С

В

Α

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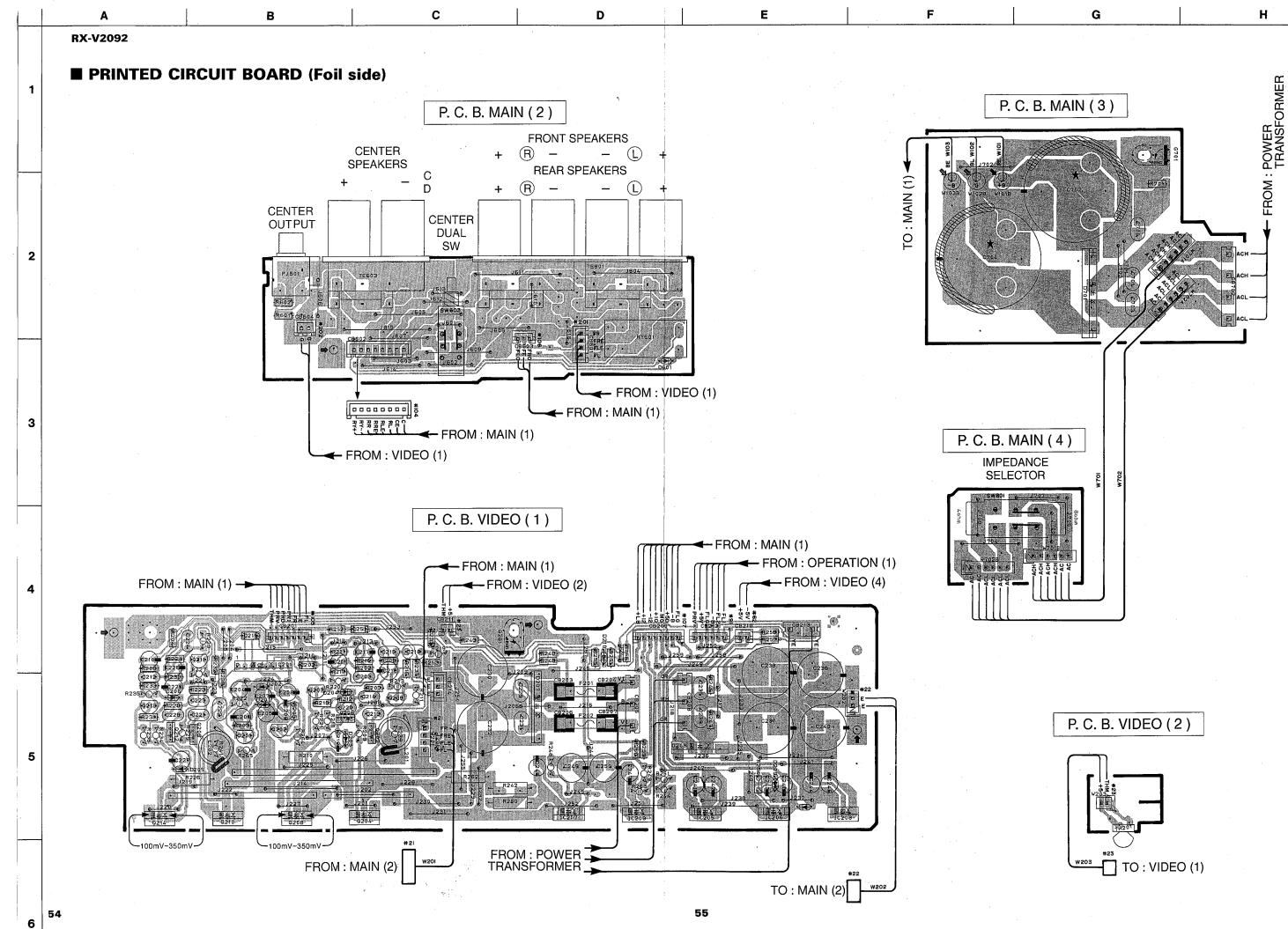
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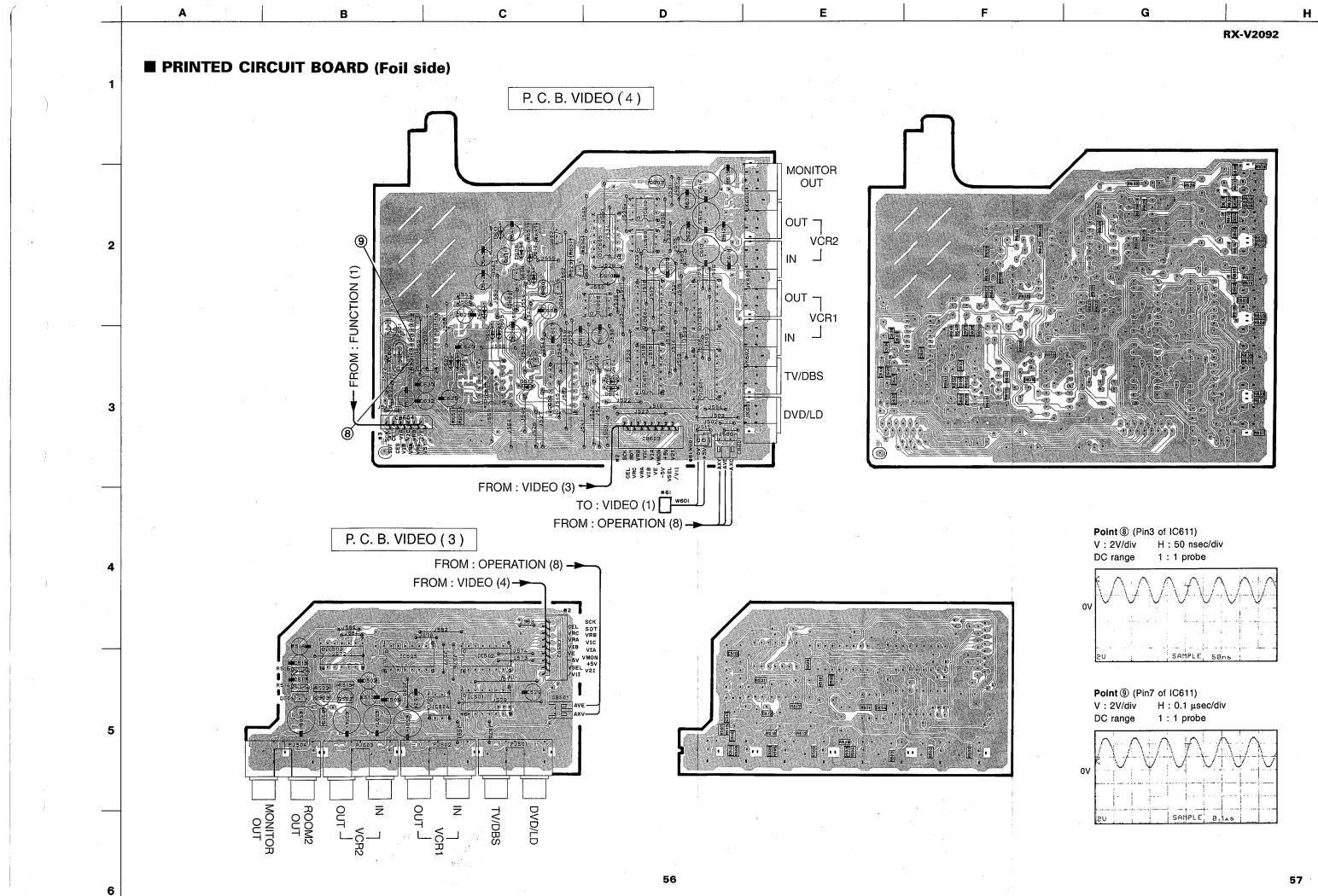
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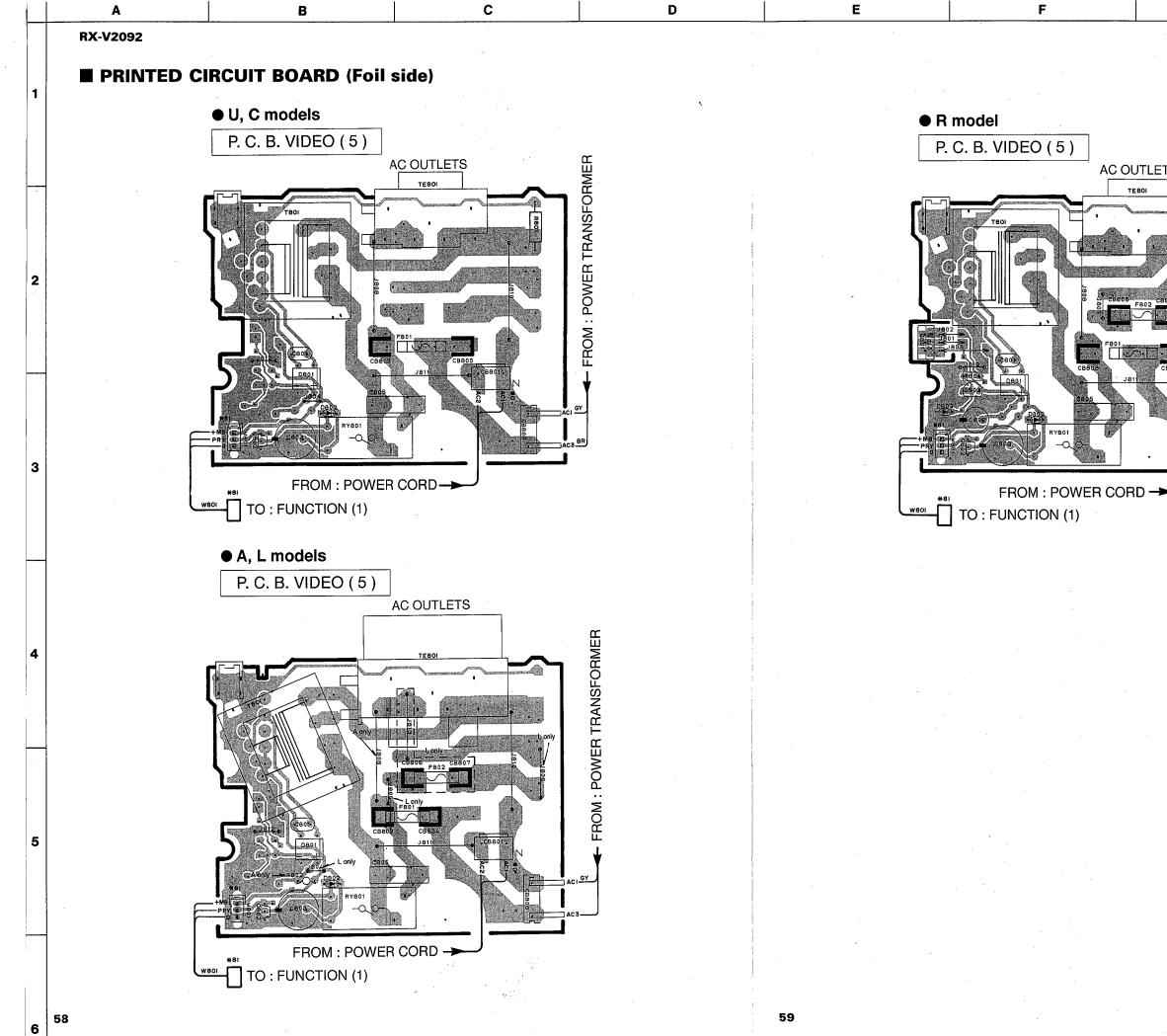
RX-V2092

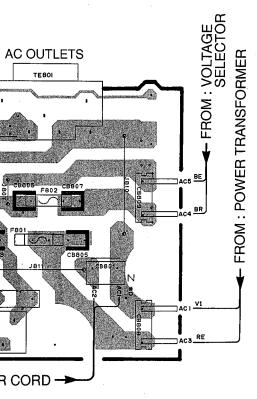
Н

G





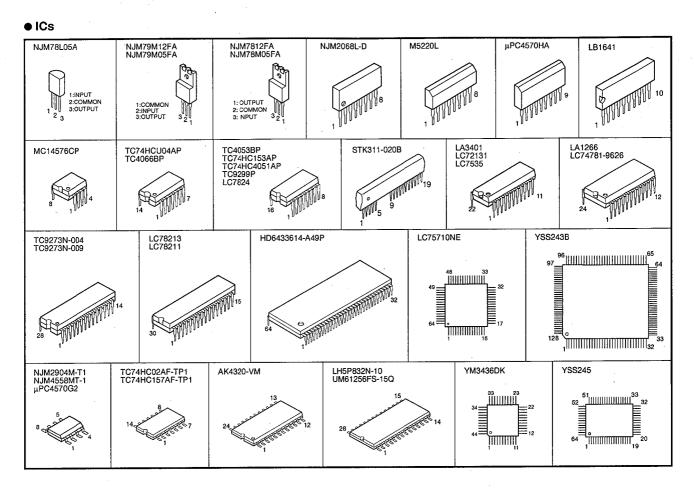




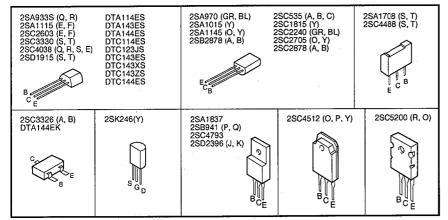
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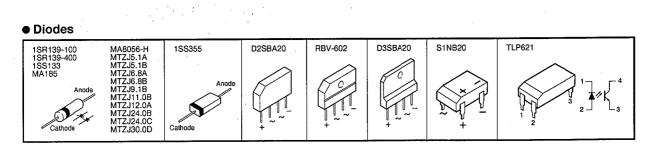
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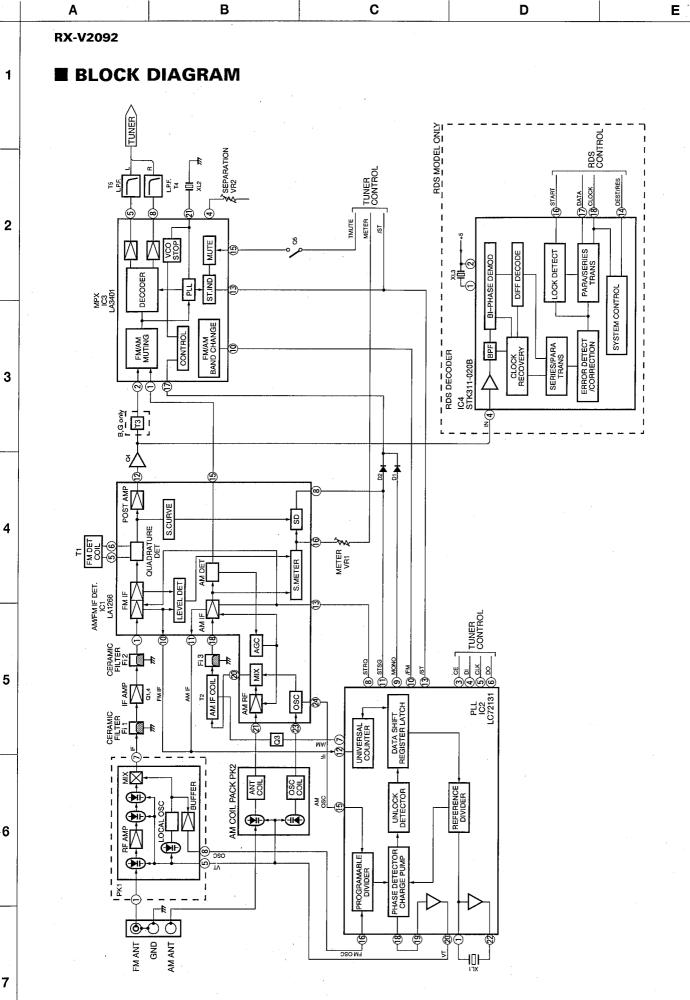
#### PIN CONNECTION DIAGRAM

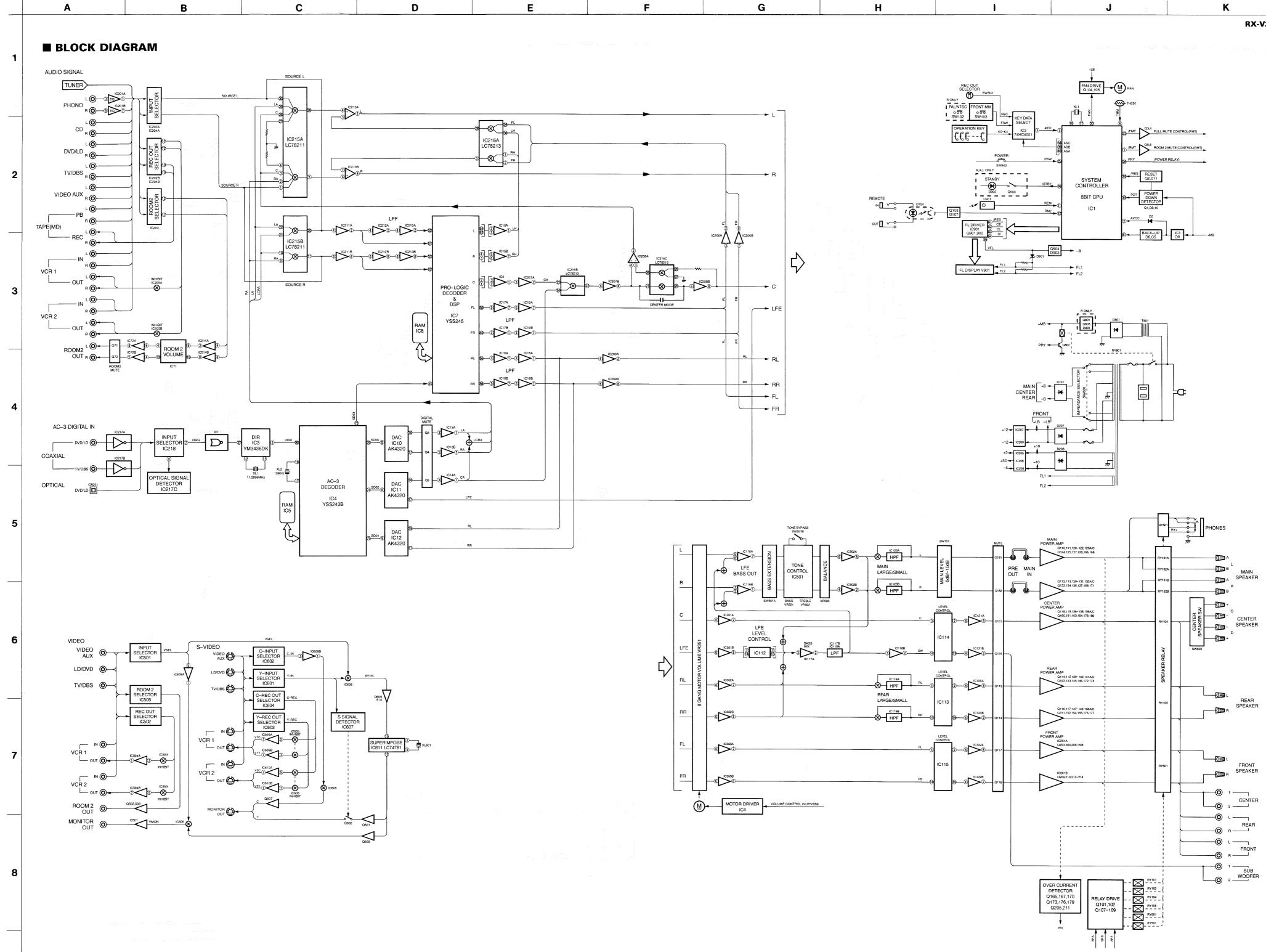


#### Transistors











1

5

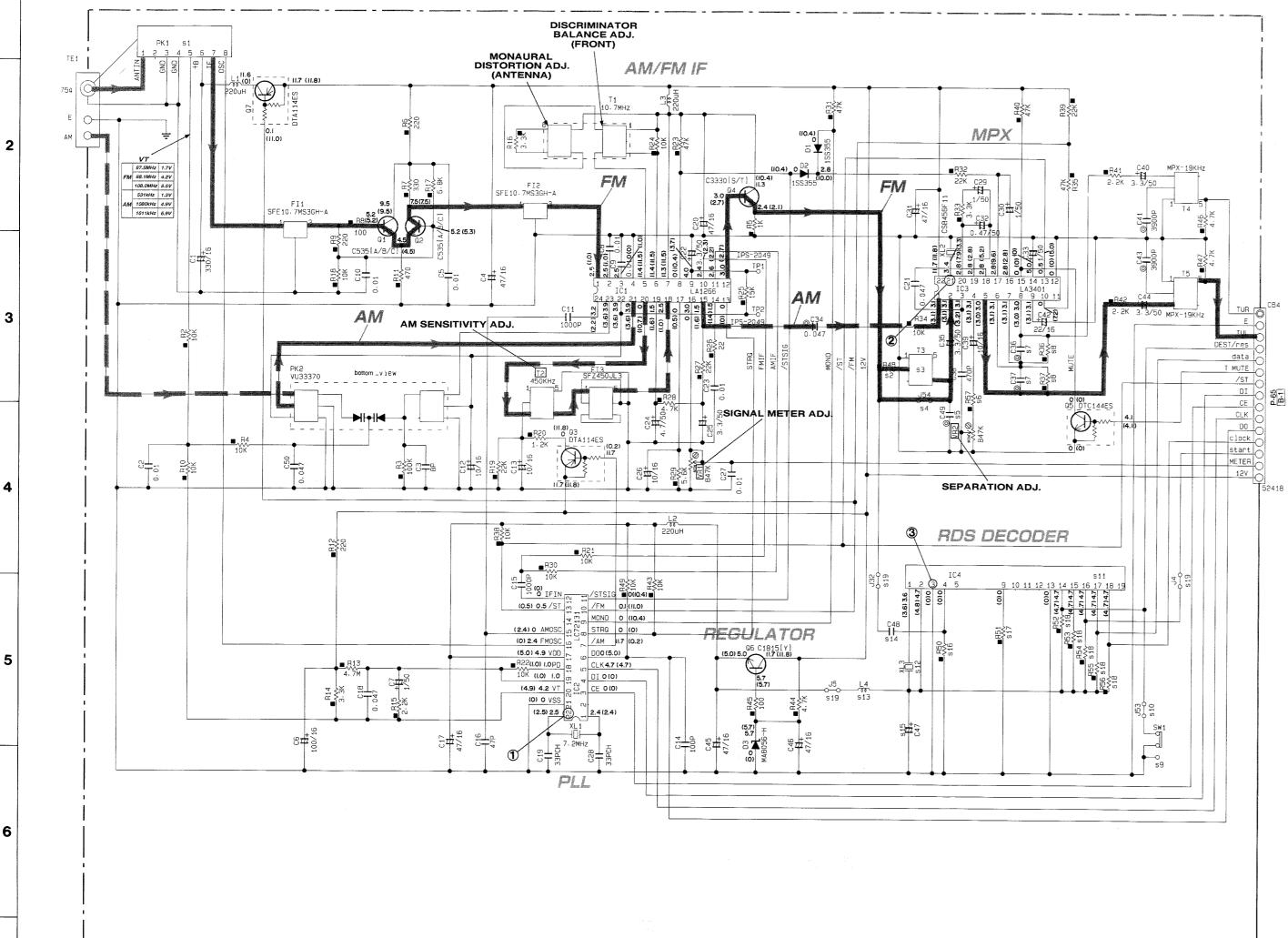
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7

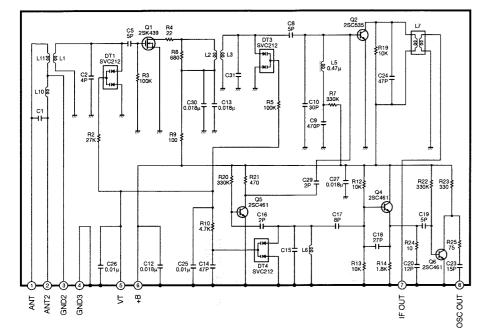
8

#### SCHEMATIC DIAGRAM (TUNER)

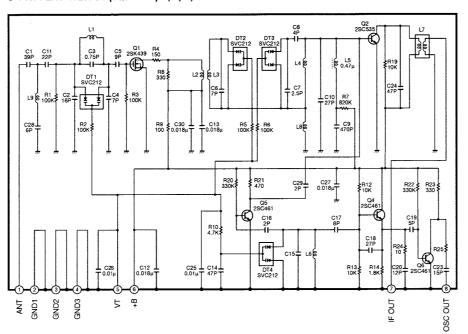
Each voltage given here represents that in the FM (98. 1MHz, STEREO) reception mode but the one in the parentheses ( ) is measured in the AM (1080kHz, MAN'L) reception mode.

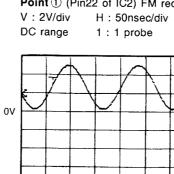


• PK1 : ENV-17298G1 (VR242200) U, C, R models



• PK1 : ENV-17297G1 (VQ987600) A, L, B, G models





G	Н	J	К	

: NOT USED

B, G/ADS

R A. B. G. L

	1	PK1	VR60440	VR24220	VR24220	VQ98760	VQ98760
	2	R48				4.7K	4.7K
	3	T3				XYA2	XYA2
1	4	J54	0	0	0		
	5	C49				120P	120P
	6	R57	22K	22K	22K -	1K	1K
1	_ 7	C36+37	680P	1000P	1000P	470P	470P
1	8	R36, 37	75K	75K	75K	100K	100K
	9	SW1			VS60260		
	10	J53			0		
1	11	IC4					STK311-020B
1	12	XL3					CSB456F33
	13	L4					220uH
	14	C48					100P
1	15	C47					47/16
	16	R50	$\leq$				47K
	17	R51					ЭЗК
	18	R52-56					10K
	19	J4-5-32					0
l	20						

U, C

CIRCUIT CHANGES BY MARKET.

#### CADACTTO

CAPACITO	R	
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	ы
$\otimes$	TANTALUM CAPACITOR	TA
NO MARK	CERAMIC CAPACITOR	
۲	CERAMIC TUBULAR CAPACITOR	
0	POLYESTER FILM CAPACITOR	
0	POLYSTYRENE FILM CAPACITOR	111
0	MICA CAPACITOR	1
P	POLYPROPYLENE FILM CAPACITOR	1
۲	SEMICONDUCTIVE CERAMIC CAPACITOR	1

#### RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
	CARBON FILM RESISTOR (P=10)
Δ	METAL OXIDE FILM RESISTOR
A	METAL FILM RESISTOR
$\boxtimes$	METAL PLATE RESISTOR
Z	FIRE PROOF CARBON FILM RESISTOR
	CEMENT MOLDED RESISTOR
$\oslash$	SEMI VARIABLE RESISTOR
	CHIP RESISTOR

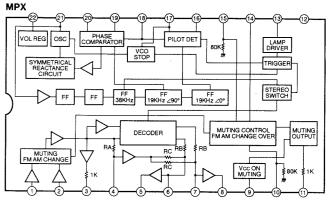
NOTICE (model) (J)····· JAPANESE (U).... U.S.A (C)····· CANADIAN (R)····· GENERAL (A)····· AUSTRALIAN (B)····· BRITISH (G)····· EUROPEAN (T)····· CHINA (L)····· SINGAPORE

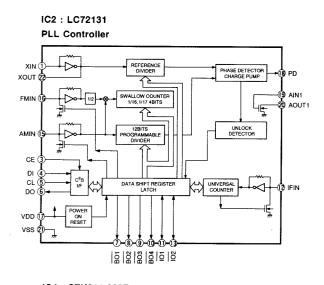
#### IC1 : LA1266 AM/FM IF

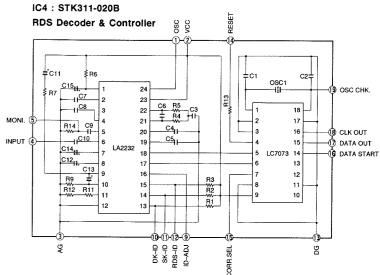
2) - RF - MIX AM-IF - DET - (1) AM-OUT

L

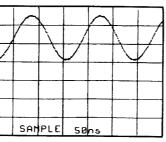
#### IC3 : LA3401







Point ① (Pin22 of IC2) FM reception



Point 2 (Pin21 of IC3) V: 2V/div H: 1µsec/div

DC range 1:1 probe

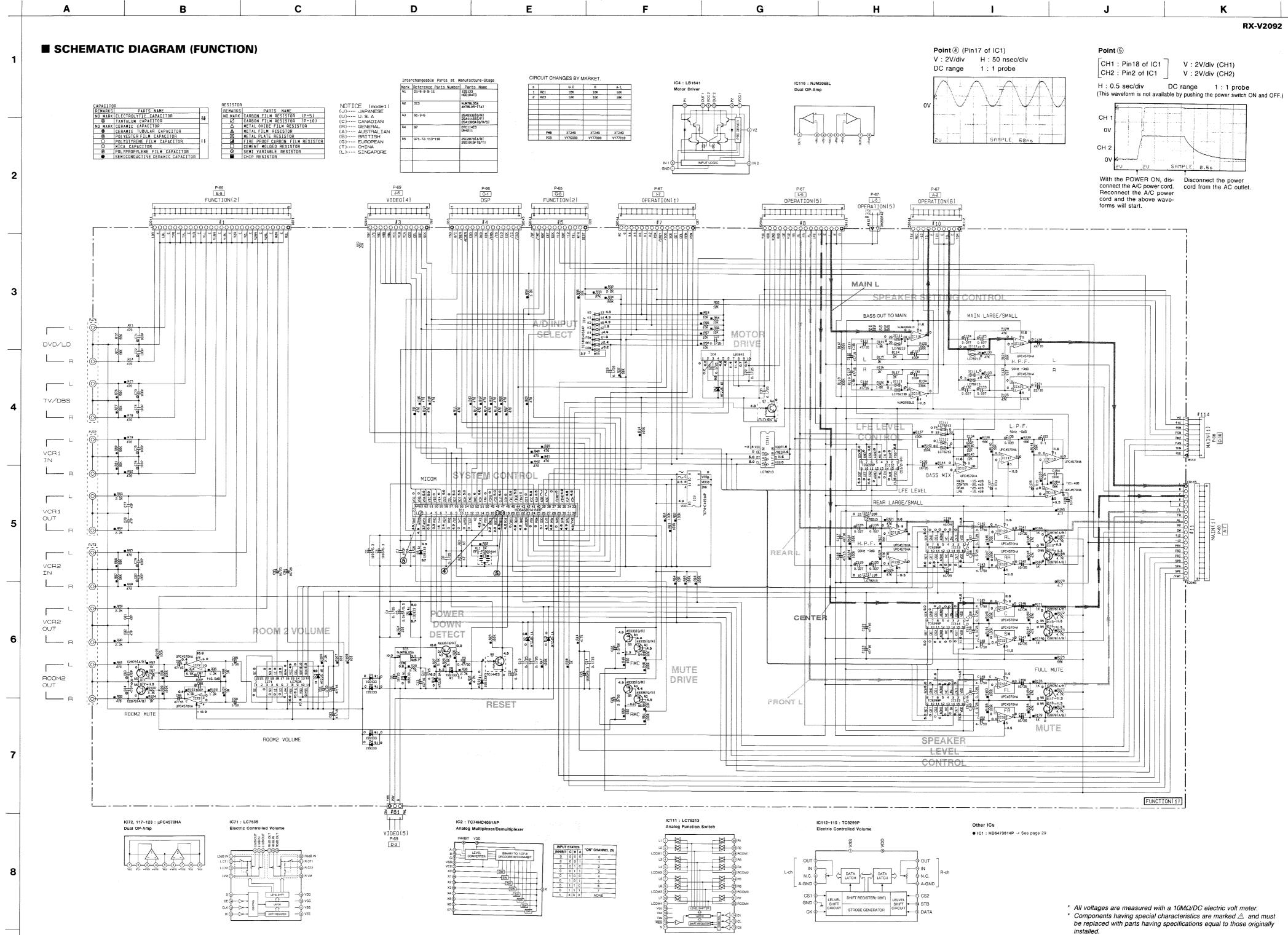
ov		Ţ	ſ		ſ	7	$\overline{\ }$	$\checkmark$
	sv			5.61	PLE	1		

#### Point ③ (Pin1 of IC4) V:5V/div H:1 µsec/div DC range 1:1 probe

		7	ſ	$\overline{\ }$	[	$\sum$	1	
0V			 					 
	20		 	SAF	IPLE	 1	5	 

\* All voltages are measured with a  $10M\Omega/DC$  electric volt meter. \* Components having special characteristics are marked  $\triangle$  and must be replaced with parts having specifications equal to those originally installed.

\* Schematic diagram is subject to change without notice.

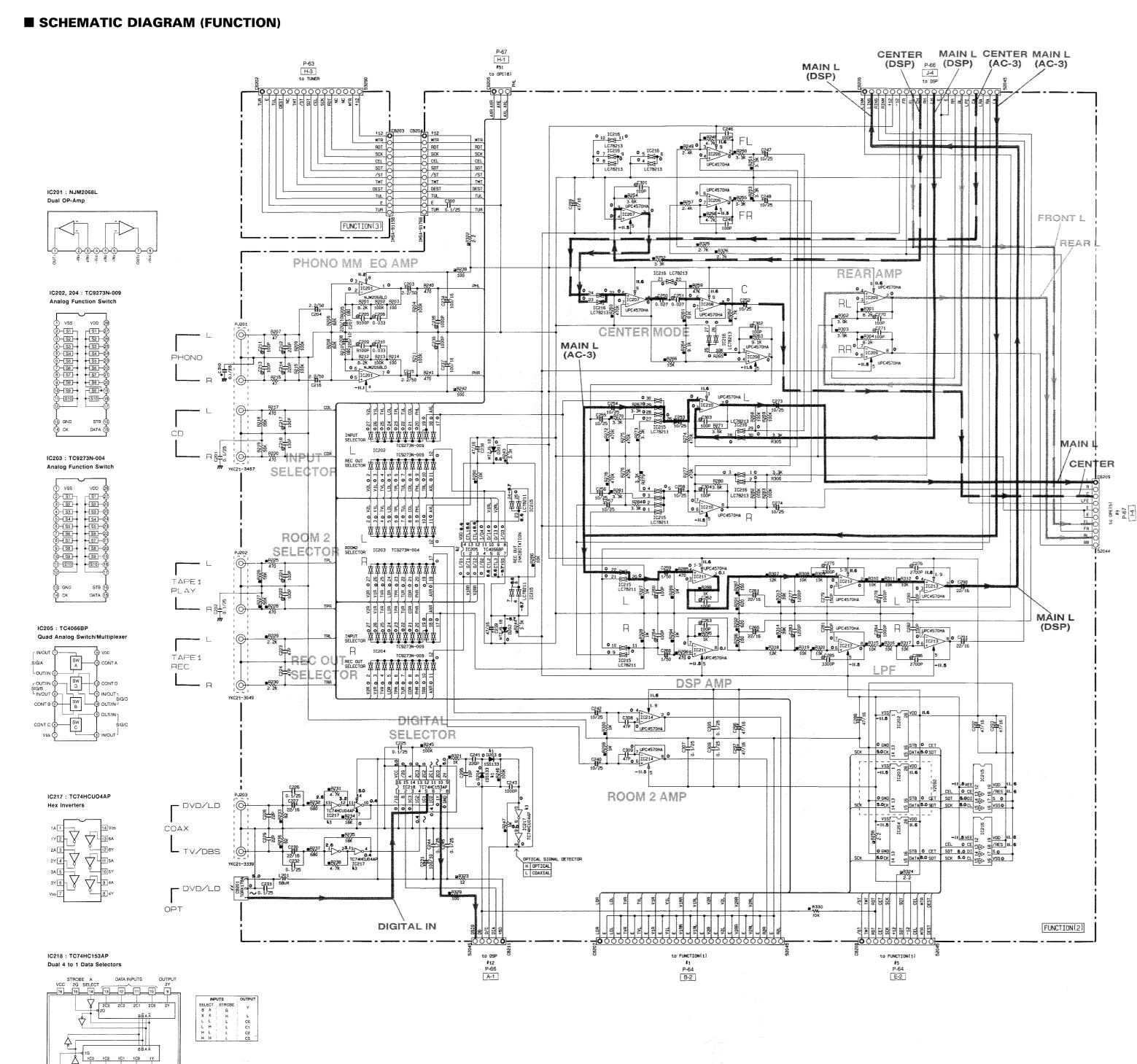


\* Schematic diagram is subject to change without notice.

Г	

2

3



STROBE B IG SELECT DATA INPUTS OUTPUT GND IY

8

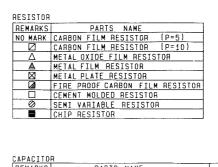


J

K

rchangeable Parts at Manufacture-Stage

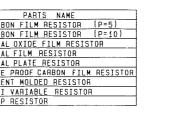
Mark Reference Parts Number Parts Name



REMARKS	PARTS NAME	T
NO MARK	ELECTROLYTIC CAPACITOR	ы
8	TANTALUM CAPACITOR	며
NO MARK	CERAMIC CAPACITOR	Τ
۲	CERAMIC TUBULAR CAPACITOR	1
0	POLYESTER FILM CAPACITOR	1
0	POLYSTYRENE FILM CAPACITOR	]++
Φ	MICA CAPACITOR	7
P	POLYPROPYLENE FILM CAPACITOR	7
۲	SEMICONDUCTIVE CERAMIC CAPACITOR	1

NOTICE (model) (J)..... JAPANESE (U)..... U. S. A (C)..... CANADIAN (R)····· GENERAL (A)····· AUSTRALIAN (B)····· BRITISH (G) ----- EUROPEAN (T) ----- CHINA (L) ----- SINGAPORE





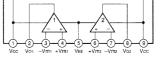
42	10205	UPD4066BC MC14066B
<b>k</b> 3	10217	TC74HCU04AP SN74HCU04N MC74HCU04N
44		
<b>k</b> 5		

CIRCUIT CHANGES BY MARKET.

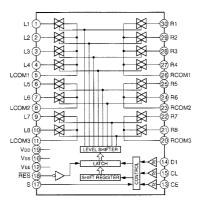
5		U, C	R	A-L
1				
2				
				1
	PWB	XT249	XT249	XT249
	PCB	VY75990	VY77000	VY77010

IC5 : UM61256FS-15Q 32K X 8 High Speed Static RAM

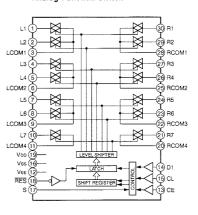


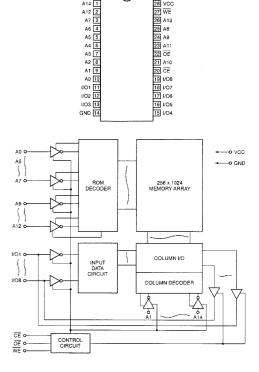


IC215 : LC78211 Analog Function Switch

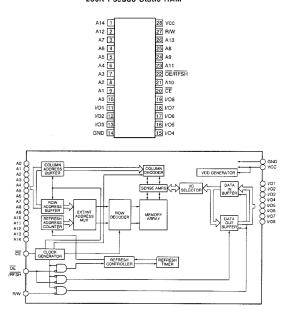


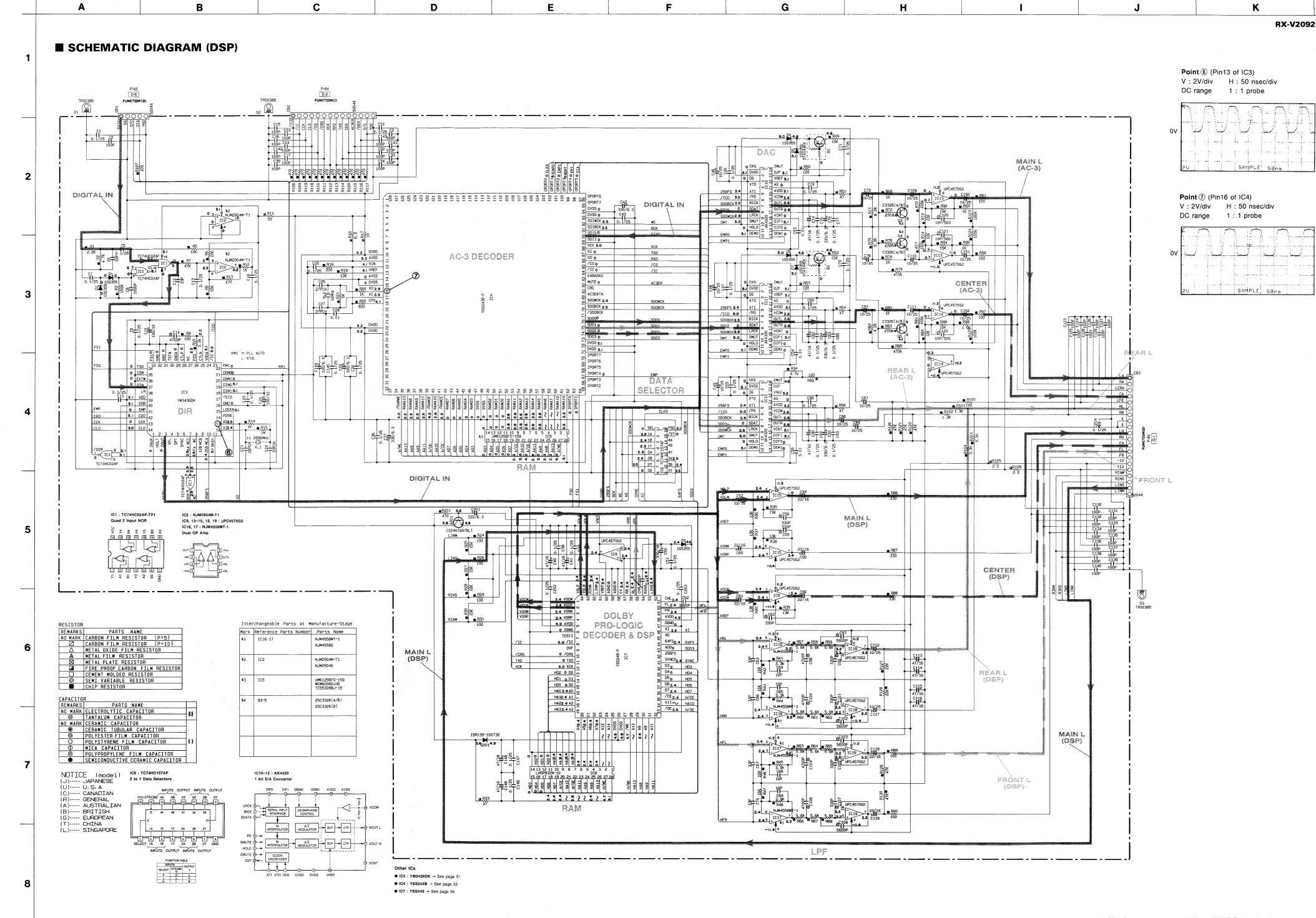
IC216 : LC78213 Analog Function Switch





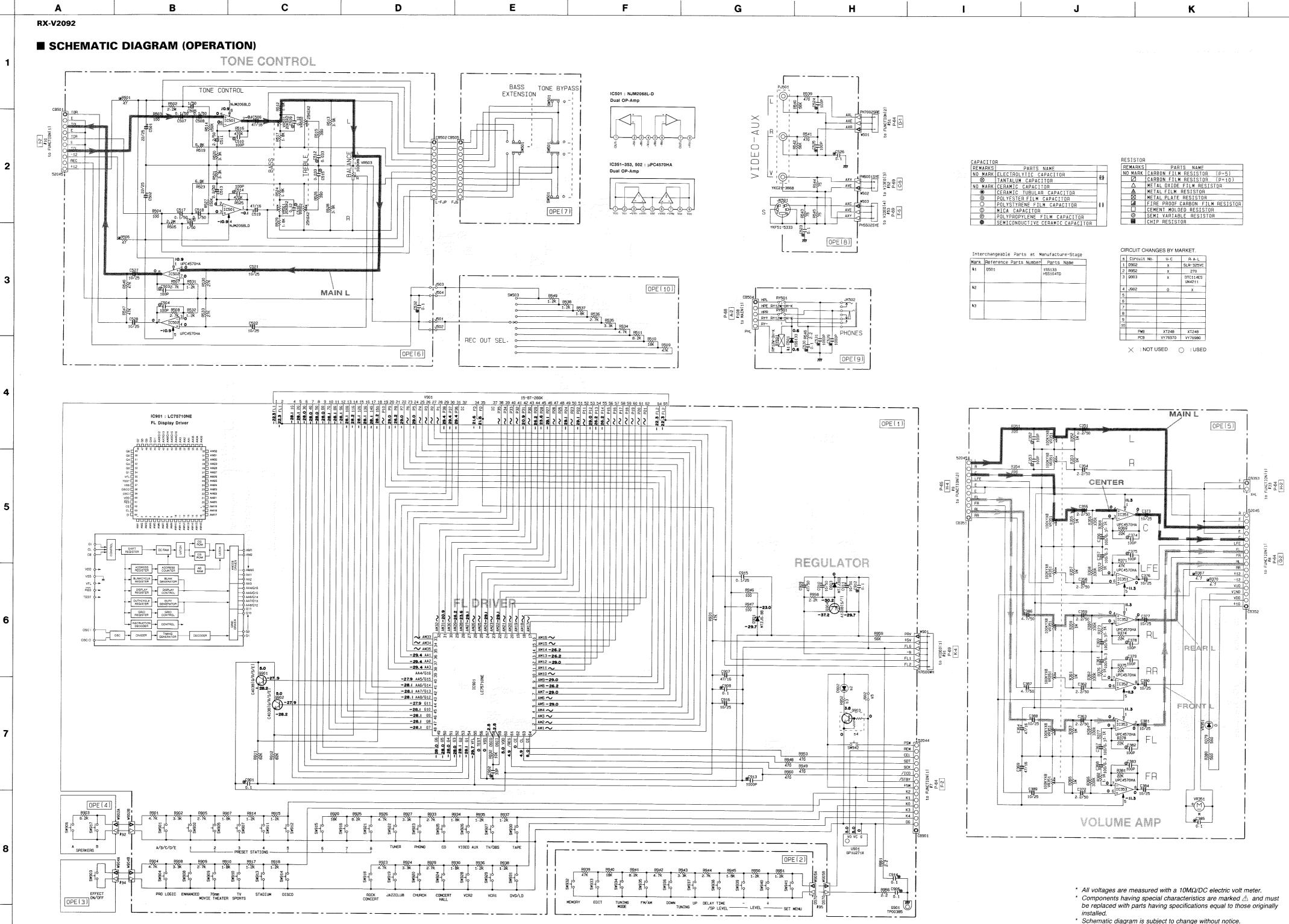
IC8 : LH5P832N-10 256K Pseudo Static RAM





\* All voltages are measured with a 10M $\Omega$ /DC electric volt meter.

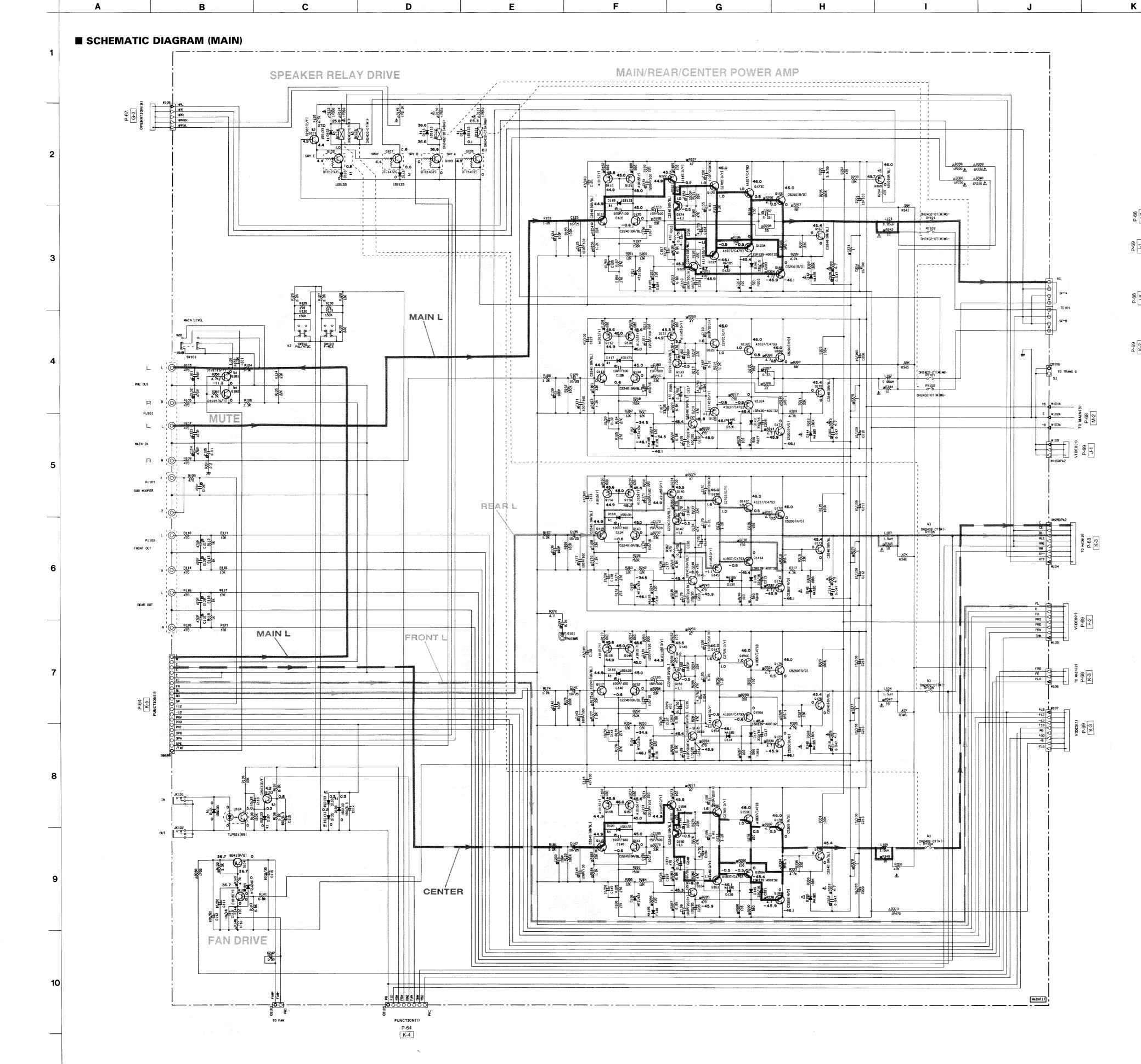
- \* Components having special characteristics are marked *△* and must be replaced with parts having specifications equal to those originally installed.
- \* Schematic diagram is subject to change without notice.

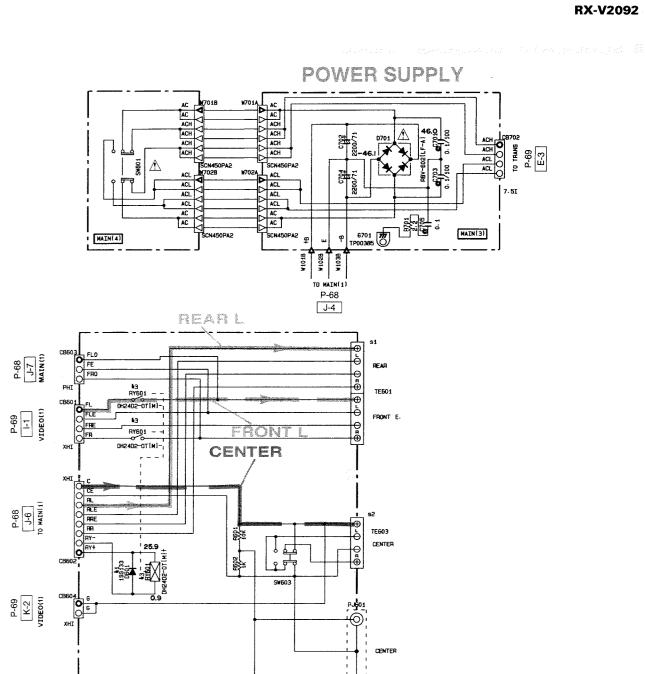


67



L





L

RESISTOR	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
	CARBON FILM RESISTOR (P=10)
Δ	METAL OXIDE FILM RESISTOR
A	METAL FILM RESISTOR
$\boxtimes$	METAL PLATE RESISTOR
	FIRE PROOF CARBON FILM RESISTOR
	CEMENT MOLDED RESISTOR
0	SEMI VARIABLE RESISTOR
	CHIP RESISTOR

MAIN(2)

CALACTIC		
REMARKS	PARTS NAME	Γ
NO MARK	ELECTROLYTIC CAPACITOR	ы
8	TANTALUM CAPACITOR	म
NO MARK	CERAMIC CAPACITOR	
۲	CERAMIC TUBULAR CAPACITOR	1
0	POLYESTER FILM CAPACITOR	1
0	POLYSTYRENE FILM CAPACITOR	111
Φ	MICA CAPACITOR	1
Ð	POLYPROPYLENE FILM CAPACITOR	1
•	SEMICONDUCTIVE CERAMIC CAPACITOR	1

NOTICE (model) (J)..... JAPANESE (U).... JAPANESE (C).... CANADIAN (R).... GENERAL (A).... BUSTRALIAN (B).... BRITISH (G).... EUROPEAN (T).... CHINA (L).... SINGAPORE

Mark	Reference Parts Number	Parts Name
41	D101-103. 105-108. 113-120. 601	1SS133 HSS104T0
12	Q101· 103	2SC2603[E/F] 2SC17405[R/S] 2SC33114[Q/R/S]
13	RY104- 105- 601	DH2402-01[N] JR2AD-1C24V
<b>L</b> 4	9181- 182	2SD1915[S/T] 2SD1915F[S/T]

CIRCUIT CHANGES BY MARKET. U- C- A R TE 101-601 VC31370 VC31370 VC31380 VT90390 TE603 VC31380 5#102 X

imes : NOT USED

VC72090

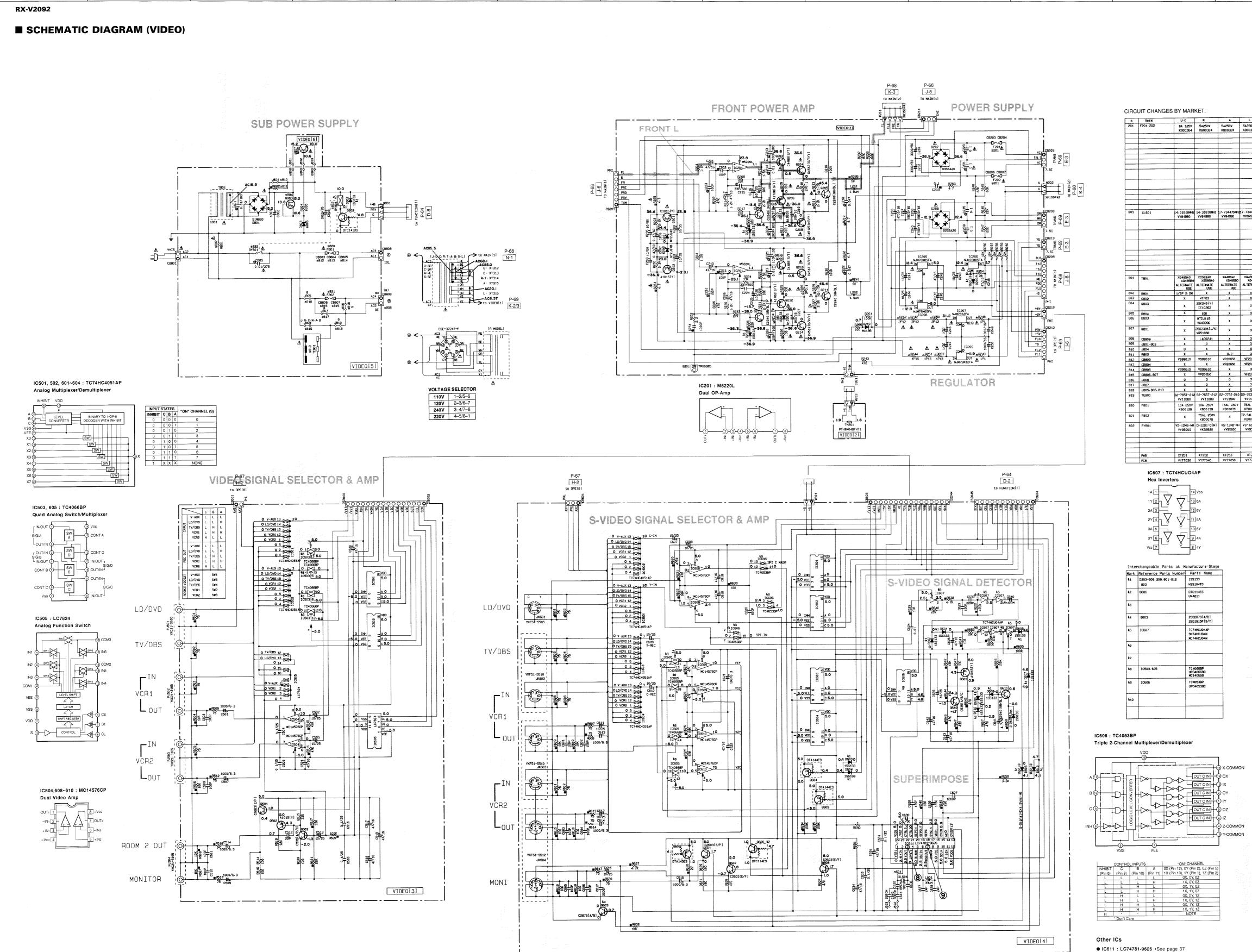
VC72100

Μ

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\* All voltages are measured with a 10MΩ/DC electric volt meter. \* Components having special characteristics are marked A and must be replaced with parts having specifications equal to those originally

installed.
\* Schematic diagram is subject to change without notice.



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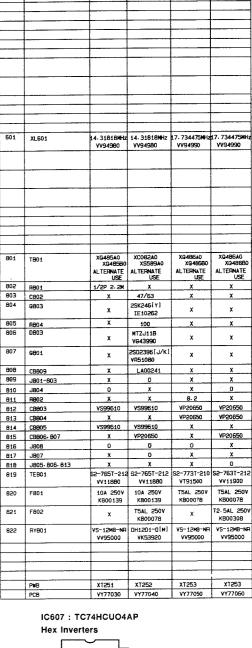
5

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69



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Μ

5A250V KB00324

 $\times$  : NOT USED

) : USED

NOTICE (model) (J).... JAPANESE (U).... U.S.A (C).... CANADIAN (R).... GENERAL (A).... AUSTRALIAN (B).... BRITISH (G).... EUROPEAN (T).... CHINA

(T)····· CHINA (L)····· SINGAPORE

MARK CARBON

K CARBON FILM RESISTOR CARBON FILM RESISTOR METAL OXIDE FILM RESIS

CAPACITOR REMARKS PARIS NAME NO MARK ELECTROLYTIC CAPACITOR STANTALUM CAPACITOR NO MARK CERAMIC CAPACITOR CERAMIC TUBULAR CAPACITOR POLYESTER FILM CAPACITOR DUSTYRENE FILM CAPACITOR DUSTYRENE FILM CAPACITOR POLYPROPYLENE FILM CAPACITOR SEMICONDUCTIVE CERAMIC CAPACITOR

Point ⑧ (Pin3 of IC611)

DC range 1:1 probe

Point (9) (Pin7 of IC611)

DC range 1:1 probe

V: 2V/div H: 0.1 µsec/div

V: 2V/div H: 50 nsec/div

AAAA

SAMPLE, 50ns

SAMPLE 0.145

CHIP RESISTOR

METAL UAIDE FILM MESISTON METAL FILM RESISTON FIRE PROOF CARBON FILM RESISTON CEMENT MOLDED RESISTON SEMI VARIABLE RESISTON CUED DEFISTON

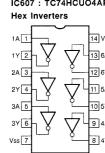
RESISTOR

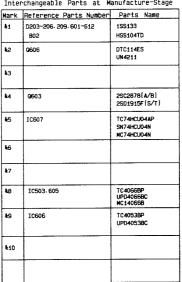
REMARKS

CAPACITO

Ν

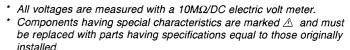
0





# Z-COMMON

installed.



### PARTS LIST ■ ELECTRICAL PARTS

■ WARNING

Components having special characteristics are marked  $\triangle$  and must be replaced with parts having specifications equal to those originally installed.

- Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS List. For the part Nos. of the carbon resistors refer to the last page.
- Flame proof carbon resistors and chip resistors are listed on page 84.

#### ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

C.A.FL.CHP	: CHIP ALUMI. ELECTROLYTIC CAP
C CE	· CEBAMIC CAP
C CE ARRAY	CERAMIC CAP ARRAY
C CE CHP	<ul> <li>CERAMIC CAP ARRAY</li> <li>CHIP CERAMIC CAP</li> <li>MULTILAYER CERAMIC CAP</li> <li>CHIP MULTILAYER CERAMIC CAP</li> </ul>
C CE MI	
C CE TUPI P	
C.CE.TUBLN	SEMI CONDUCTIVE CERAMIC CAP
U.EL	
C.MP	
C.MYLAR	
C.MYLAR.ML	: MULTILAYER MYLAR FILM CAP
C.PAPER	: PAPER CAPACITOR
C.PLS	: POLYSTYRENE FILM CAP
C.POL	: POLYESTER FILM CAP
C.POLY	: POLYETHYLENE FILM CAP
C.PP	: POLYPROPYLENE FILM CAP
C.TNTL	: TANTALUM CAP
C.TNTL.CHP	: CHIP TANTALUM CAP
C.TRIM	: TRIMMER CAP
CN	: CONNECTOR
CN.BS.PIN	: CONNECTOR, BASE PIN
CN.CANNON	: CONNECTOR, CANNON
CN.DIN	<ul> <li>MULTILAYER CERAMIC CAP</li> <li>CHIP MULTILAYER CERAMIC CAP</li> <li>RECOGNIZED CERAMIC CAP</li> <li>CERAMIC TUBULAR CAP</li> <li>SEMI CONDUCTIVE CERAMIC CAP</li> <li>ELECTROLYTIC CAP</li> <li>MICA CAP</li> <li>MULTILAYER FILM CAP</li> <li>MULTILAYER FILM CAP</li> <li>MULTILAYER MYLAR FILM CAP</li> <li>MULTILAYER MYLAR FILM CAP</li> <li>PAPER CAPACITOR</li> <li>POLYSTYRENE FILM CAP</li> <li>POLYETHYLENE FILM CAP</li> <li>POLYETHYLENE FILM CAP</li> <li>POLYETHYLENE FILM CAP</li> <li>CONNECTOR, BASE PIN</li> <li>CONNECTOR, DIN</li> <li>CONNECTOR, BASE POST</li> </ul>
CN.FLAT CN.POST	: CONNECTOR, FLAT CABLE
CN.POST	: CONNECTOR, BASE POST
COIL.MX.AM	: COIL, AM MIX
COIL.AT.FM	: COIL, AM MIX : COIL, FM ANTENNA : COIL, FM DETECT : COIL, FM MIX
COIL.DT.FM	: COIL, FM DETECT
COIL.MX.FM	: COIL, FM MIX
COIL.OUTPT	: OUTPUT COIL
COIL.OUTPT DIOD.ARRAY	: DIODE ARRAY
DIODE.CHP	: CHIP DIODE
DIODE.VAR	: VARACTOR DIODE
DIOD.Z.CHP	: CHIP ZENER DIODE
DIODE.ZENR	: ZENER DIODE
DSCR.CE	: CERAMIC DISCRIMINATOR
FER.BEAD	: FERRITE BEADS
FER.CORE	: FERRITE CORE : CHIP FET
FET.CHP	: CHIP FET
FL.DSPLY	: FLUORESCENT DISPLAY
FLTR.CE	: CERAMIC FILTER
FLTR.COMB	: COMB FILTER MODULE
FLTR.LC.RF	: LC FILTER ,EMI
GND.MTL	: GROUND PLATE
GND.TERM	: GROUND TERMINAL
HOLDER.FUS	: FUSE HOLDER
IC.PRTCT	: IC PROTECTOR
JUMPER.CN	: JUMPER CONNECTOR
JUMPER.TST	: JUMPER, TEST POINT
L.DTCT	: LIGHT DETECTING MODULE

	: LIGHT EMITTING MODULE
	: LED DISPLAY
	: LED, INFRARED
	: MODULATOR, RF : PHOTO COUPLER
	: PHOTO INTERRUPTER
	PHOTO REFLECTOR
PIN.TEST	PIN, TEST POINT
	: PLASTIC RIVET
R.ARRAY	: RESISTOR ARRAY
R.CAR	: CARBON RESISTOR
R.CAR.CHP	: CHIP RESISTOR
R.CAR.FP	: FLAME PROOF CARBON RESISTOR
R.FUS	: FUSABLE RESISTOR
R.MTL.CHP	: CHIP METAL FILM RESISTOR
	: METAL FILM RESISTOR
R.MTL.OXD	: METAL OXIDE FILM RESISTOR
	: METAL PLATE RESISTOR
RSNR.CE RSNR.CRYS R.TW.CEM	: CERAMIC RESONATOR
RSNR.CRYS	: CRYSTAL RESONATOR
R.TW.CEM	: TWIN CEMENT FIXED RESISTOR
R.WW	: WIRE WOUND RESISTOR
	: BIND HEAD B-TITE SCREW
	: BW HEAD TAPPING SCREW
SCR.CUP	: CUP TITE SCREW
SCR.TERM	: SCREW TERMINAL
	: SCREW, TRANSISTOR
SUPRT.PCB	: SUPPORT, P.C.B.
	: SURGE PROTECTOR
SW.TACT	: TACT SWITCH
SW.LEAF	: LEAF SWITCH
SW.LEVER	: LEVER SWITCH
SW.MICRO	: MICRO SWITCH
SW.PUSH	: PUSH SWITCH
SW.RT.ENC	: ROTARY ENCODER
SW.PUSH SW.RT.ENC SW.RT.MTR	: ROTARY SWITCH WITH MOTOR
SW.RT	: ROTARY SWITCH
SW.SLIDE	: SLIDE SWITCH
TERM.SP	: SPEAKER TERMINAL
	: WRAPPING TERMINAL
	: CHIP THERMISTOR
TR.CHP	: CHIP TRANSISTOR
	: DIGITAL TRANSISTOR
	CHIP DIGITAL TRANSISTOR
	TRANSFORMER
	PULSE TRANSFORMER
	: POWER TRANSFORMER ASS'y
	TUNER PACK, AM
	TUNER PACK, FM
	FRONT-END TUNER PACK
	: ROTARY POTENTIOMETER
	POTENTIOMETER WITH MOTOR
	POTENTIOMETER WITH ROTARY SW
	: SLIDE POTENTIOMETER
	TRIMMER POTENTIOMETER
• 1 to 1 1 to (V)	

Note) Those parts marked with "#" are not included in the P.C.B. ass'y.

#### P.C.B. TUNER & FUNCTION

Schm

Schm Ref.	PART NO.	Desci	ription	
	VV610200	P.C.B.	TUNER (UC)	
	VV610300	P.C.B.	TUNER(R)	
	VV610400	P.C.B.	TUNER (AL)	
CB4	VQ961800	CN.BS.PIN	15P	
C1	VG287800	C.EL	330uF	16V
C2	UB044100	C.CE.M.CHP	0.01uF	50V
C3	UB050800	C.CE.M.CHP	8pF	50V
C4	VG291200	C.EL	47uF	50V
C5	UB044100	C.CE.M.CHP	0.01uF	50V
C6	VG288900	C.EL	100uF	25V
C7	VJ839100	C.EL	1uF	50V
C8	UB044100	C.CE.M.CHP	0.01uF	50V
C9	UB044100	C.CE.M.CHP	0.01uF	50V
C10	UB044100	C.CE.M.CHP	0.01uF	50V
C11	UB013100	C.CE.M.CHP	1000pF	50V
C12	VJ836900	C.EL	10uF	16V
C13	VI836900	C.EL	10uF	16V
C14	UB052100	C.CE.M.CHP	100pF	50V
C15	UB013100	C.CE.M.CHP	1000pF	50V
C16	UB051470	C.CE.M.CHP	47pF	50V
C17	VG291200	C.EL	47uF	50V
C18	UB044470	C.CE.M.CHP	0.047uF	50V
C19	VA761200	C.CE	33pF	50V
C20	VG291200	C.EL	47uF	50V
C21	UB044470	C.CE.M.CHP	0.047uF	50V
C22	UM216330	C.EL	3.3uF	50V
C23	UB044100	C.CE.M.CHP	0.01uF	50V
C24	UM416470	C.EL	4.7uF	50V
C25	UM216330	C.EL	3.3uF	50V
C26	VJ836900	C.EL	10uF	16V
C27	UB044100	C. CE. M. CHP	0.01uF	50V
C28	VA761200	C.CE	33pF	50V
C29	VJ839100	C.EL	luF	50V
C30	VJ839100	C.EL	1uF	50V
C31	VG291200	C.EL	47uF	50V
C32	VJ839000	C.EL	0.47uF	50V
C33	VJ839100	C.EL	luF	50V
C34	UA654470	C. MYLAR	0.047uF	50V
C35	UM216330	C.EL	3.3uF	50V
C36	UA652470	C. MYLAR	470pF	50V(AL)
C36	UA653100	C. MYLAR	1000pF	50V (UCI
C37	UA652470	C. MYLAR	470pF	50V(AL)
C37	UA653100	C. MYLAR	1000pF	50V(UC
C38	UB012470	C.CE.M.CHP	470pF	50V
C39	VJ836900	C.EL	10uF	16V
C40	UM216330	C.EL	3.3uF	50V
C41	UA653390	C. MYLAR	3900pF	50V
C42	UM407220	C.EL	22uF	16V
C43	UA653390	C. MYLAR	3900pF	50V
C44	UM216330	C.EL	3.3uF	50V
C45	VG291200	C.EL	47uF	50V
C46	VG291200	C.EL	47uF	50V
C49	UA652120	C. MYLAR	120pF	50V (AL)

	Schm			
	Ref.	PART NO.		
	C50	UB044470	C.CE.M.CHP	0.047uF 50V
	D1	VT332900	DIODE	1SS355
	D2	VT332900	DIODE	1SS355
	D3	VU993100	DIODE. ZENR	MA8056-H 5.8V
	Fi1		FLTR.CE	SFE10.7MS3GHY-A
	Fi2		FLTR.CE	SFE10.7MS3GHY-A
	Fi3		FLTR.CE	SFZ450JL3
	IC1	XB760A00	IC	LA1266
	IC1 IC2	XQ944A00	IC	LC72131
		iG158100	IC	LA3401
	IC3			
	L1	VU889500	COIL	220uH
	L2	VU889500	COIL	220uH
	L3	VU889500	COIL	220uH
	PK1	VQ987600	TUNER. PK	EXV-17296G1 (AL)
	PK1	VR242200	TUNER. PK	EXV-17296G1 (UCR)
	PK2		COIL.RF.AM	940536051A
	Q1	iC053540	TR	2SC535 A, B, C
	Q2	iC053540	TR	2SC535 A, B, C
	Q3	VD678500	TR.DGT	DTA114ES
	Q4	VC218900	TR	2SC3330 R, S, T
	Q5	VG722000	TR. DGT	DTC144ES
	Q6	iC1815C0	TR	2SC1815 Y
	Q7	VD678500	TR.DGT	DTA114ES
	SW1	VS602600	SW. SLIDE	SS070-P022 A(R)
	T1		COIL.DT.FM	10.7MHz
	T2	VR895700	COIL. IF	450KHz
	T3		COIL	XYA2(AL)
	T4		FLTR. LC	19KHz
	T5		FLTR. LC	19KHz
	TE1	VU477800	TERM. ANT	AJ-2038-040
	TP1		PIN. TEST	IRS-2049
	TP2		PIN. TEST	IRS-2049
		VI909000 VI694000		Β47ΚΩ
	VR1	•		
	VR2	VJ694000		B47KΩ
	XL1		RSNR. CRYS	7.2MHz
	XL2	GG000750	RSNR.CE	18.95MHz
		BB071360	SCR. TERM	8.3x13
		VR282500	PLATE	ANT.
*		VY769900		FUNCTION (UC)
*		VY770000	P.C.B.	FUNCTION(R)
*		VY770100	P.C.B.	FUNCTION (AL)
	CB2	VN066500	CN.BS.PIN	12P
	CB3	VN394900	CN.BS.PIN	14P
	CB4	VB858200	CN. BS. PIN	3P
	CB5	VQ044500	CN. BS. PIN	11P
	CB7	VM929900	CN. BS. PIN	15P
	CB71	VQ045600	CN. BS. PIN	27P
*	CB111	VQ044700	CN. BS. PIN	16P
	CB112	VP113500	CN. BS. PIN	10P
	CB112 CB115	VQ047400	CN. BS. PIN	19P
			5	
	*1	lew Parts		

\* New Parts

#### P.C.B. FUNCTION

1					
	Schm Ref.	PART NO.	Descr	iption	
	CB201	VT620100	L.DTCT	1P TORX1	78A
	CB201 CB202		CN. BS. PIN	15P	10/1
*			CN. BS. PIN	101 12P	
*	CB203		SOCKET	121 12P	
Ť	CB204				
	CB205		CN.BS.PIN	3P	
	CB206	-	CN. BS. PIN	20P	
	CB207	-	CN. BS. PIN	27P	. 1 A.A.
	CB208	VM859500	CN. BS. PIN	11P	
	CB209	VP113500	CN. BS. PIN	10P	
	CB211	VQ046900	CN.BS.PIN	5P	<b>FOI</b>
	C1	UB012470	C.CE.M.CHP	470pF	50V
	C2	VF637900	C.EL	1000uF	10V
	C3	VF637900	C.EL	1000uF	10V
	C4	UB245100	C.CE.M.CHP	0. luF	25V
	C5	VT740700	C.EL	4700uF	5.5V
	C6	UM417100	C.EL	10uF	50V
	C7	UB245100	C.CE.M.CHP	0.1uF	25V
	C8	UB245100	C.CE.M.CHP	0.1uF	25V
	C9	VJ839000	C.EL	0.47uF	50V
	C10	UB245100	C.CE.M.CHP	0.1uF	25V
	C11	UB245100	C.CE.M.CHP	0.1uF	25V
	C12	UB245100	C.CE.M.CHP	0.1uF	25V
	C13	VJ837200	C.EL	47uF	16V
	C19	UB245100	C.CE.M.CHP	0. 1uF	25V
	C22	VJ839200	C.EL	2.2uF	50V
	C23	UB245100	C.CE.M.CHP	0.1uF	25V
	C24	UB245100	C.CE.M.CHP	0.1uF	25V
	C25	VF637900	C.EL	1000uF	10V
	C26	VJ839200	C.EL	2.2uF	50V
	C27	UB245100	C.CE.M.CHP	0.1uF	25V
	C28	UB245100	C.CE.M.CHP	0.1uF	25V
	C29	UB245100	C.CE.M.CHP	0.luF	25V
	C30	UB245100	C.CE.M.CHP	0.1uF	25V
	C71	VQ645600	C. MYLAR	100pF	50V
	C72	VQ645600	C. MYLAR	100pF	50V
	C73	UA652100	C. MYLAR	100pF	50V
	C74	UA652100	C. MYLAR	100pF	50V
	C75	UA652100	C. MYLAR	100pF	50V
	C76	UA652100	C. MYLAR	100pF	50V
	C77	FG211470	C.CE	47pF	50V
	C78	FG211470	C.CE	47pF	50V
	C79	UA652100	C. MYLAR	100pF	50V
	C80	UA652100	C. MYLAR	100pF	50V
	C81	FG211470	C.CE	47pF	50V
	C82	FG211470	C.CE	47pF	50V
	C83	UA652470	C. MYLAR	470pF	50V
	C84	UA652470	C. MYLAR	470pF	50V
	C85	VJ839100	C.EL	luF	50V
	C86	VJ837200	C.EL	47uF	16V
	C87	UA652100	C. MYLAR	100pF	50V
	C88 ·	UA652100	C. MYLAR	100pF	50V
	C89	VJ837200	C.EL	47uF	16V 50V
	C90	VJ839100	C.EL	luF	507
	* New P	orte			

\* New Parts

\*New Parts

Schm Ref.	PART NO.	Descr	·iption	
C91	VJ839100	C.EL	1uF	50V
C92	VJ837200	C.EL	47uF	16V
C93	VJ837200	C.EL	47uF	16V
C94	UM417100	C.EL	10uF	50V
C95	UM417100	C.EL	10uF	50V
C93 C111	VJ837200	C.EL	47uF	16V
		C.EL	$47\mathrm{uF}$	16V 16V
C112	VJ837200		47uF	16V 16V
C113	VJ837200	C.EL C.EL	47ur 47uF	16V 16V
C114	VJ837200		47ur 0.027uF	
C115	UA654270	C. MYLAR		50V
C116	UA654270	C. MYLAR	0.027uF	50V
C117	VJ837200	C.EL	47uF	16V
C118	VJ837200	C.EL	47uF	16V
C119	UA654270	C. MYLAR	0.027uF	50V
C120	UA654270	C. MYLAR	0.027uF	50V
C122	VJ837200	C.EL	47uF	16V
C123	VJ837200	C.EL	47uF	16V
C124	UA654270	C. MYLAR	0.027uF	50V
C125	UA654270	C. MYLAR	0.027uF	50V
C126	UM407220	C.EL	22uF	16V
C127	VQ645600	C. MYLAR	100pF	50V
C130	VQ645600	C. MYLAR	100pF	50V
C131	UM407220	C.EL	22uF	16V
C132	UA654270	C. MYLAR	0.027uF	50V
C133	UA654270	C. MYLAR	0.027uF	50V
C134	UB052100	C.CE.M.CHP	100pF	50V
C135	UA654390	C. MYLAR	0.039uF	50V
C136	UM417100	C.EL	10uF	50V
C137	UA654330	C. MYLAR	0.033uF	50V
C138	UA654130	C. MYLAR	0.013uF	50V
C139	UM417100	C.EL	10uF	50V
C139 C140	UM416470	C.EL	4.7uF	50V
C140	UM417100	C.EL	10uF	50V 50V
		C.EL	10uF	50V 50V
C142	UM417100			
C143	UM416470	C.EL	4.7uF	50V
C144	UM417100	C.EL	10uF	50V
C145	UM416470	C.EL	4.7uF	50V
C146	UM417100	C.EL	10uF	50V
C147	UM417100	C.EL	10uF	50V
C148	UM416470	C.EL	4.7uF	50V
C149	UM416470	C.EL	4.7uF	50V
C150	UM417100	C.EL	10uF	50V
C151	UM417100	C.EL	10uF	50V
C152	UM416470	C.EL	4.7uF	50V
C153	UA655100	C. MYLAR	0. 1uF	50V
C154	UB052100	C.CE.M.CHP	100pF	50V
C155	UM417100	C.EL	10uF	50V
C156	UB245100	C.CE.M.CHP	0. 1uF	25V
C157	UB245100	C. CE. M. CHP	0. 1uF	25V
C158	UB245100	C. CE. M. CHP	0. 1uF	25V
C159	UB245100	C. CE. M. CHP	0. 1uF	25V
C160	UB245100	C. CE. M. CHP	0. 1uF	25V
C161	UB245100	C. CE. M. CHP	0. 1uF	25V
	I			
*New P	ans			

RX-V2092

#### P.C.B. FUNCTION

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Schm Ref.	PART NO.	Desc	ription				Schm Ref.	PART NO.	Desc	ription	
C201	T	C. CE. M. CHP	T	25V		-				T	50V
C201 C202	1		0. 1uF				C256	UM417100		10uF	
		C. CE. M. CHP	$0.1 \mathrm{uF}$	25V			C257	UM417100		10uF	50V
C203	VJ839200		2.2uF	50V			C258	UM417100		10uF	50V
C204	VJ839200		2.2uF	50V			C259	VJ839100		luF	50V
C205	UA653910		9100pF	50V			C260	UA652100		100pF	50V
C206	UA654330		0.033uF	50V			C261	UM407220	C.EL	22uF	16V
C207	VE117600		220uF	10V	÷ .		C262	UA652100		100pF	50V
C208	VE117600	C.EL	220uF	10V			C263	UA652100	1	100pF	50V
C209		C. MYLAR	9100pF	50V			C264	UA652100		100pF	50V
C210	UA654330	1	0.033uF	50V			C265	UM407220	ſ	22uF	16V
C211	UA652100	1	100pF	50V			C266	VJ839100		luF	50V
C212	UA652220	1	220pF	50V			C270	UA652100		100pF	50V
C213	UA652100		100pF	50V			C271	UA652100		100pF	50V
C214	UA652220	1	220pF	50V			C273	UM417100		10uF	50V
C215		C.EL	2.2uF	50V			C274	UM417100		10uF	50V
C216		C.EL	2.2uF	50V			C275	UA653330		3300pF	50V
C217	· ·	C. MYLAR	100pF	50V			C276	UA653270	1	2700pF	50V
C218	VQ645600	C. MYLAR	100pF	50V			C277	UA653120	C. MYLAR	1200pF	50V
C221		C. MYLAR	100pF	50V			C278	UA653100		1000pF	50V
0222	UA652100	C. MYLAR	100pF	50V			C279	FG212150	C.CE	150pF	50V
C223	FG211470	C.CE	47pF	50V			C280	FG212150	C.CE	150pF	50V
C224	FG211470	C.CE	47pF	50V			C281	FG212150	C.CE	150pF	50V
C225	UB245100	C.CE.M.CHP	0.1uF	25V			C282	FG212150	C.CE	150pF	50V
C226	UB245100	C.CE.M.CHP	0. luF	25V			C283	UA653120	C. MYLAR	1200pF	50V
C227	UM407220	C.EL	22uF	16V			C284	UA653100	C. MYLAR	1000pF	50V
C228	UB051220	C.CE.M.CHP	22pF	50V			C285	UA653330	C. MYLAR	3300pF	50V
C229	UB051220	C.CE.M.CHP	22pF	50V			C286	UA653270	C. MYLAR	2700pF	50V
C230		C.EL	22uF	16V			C288	VJ837200		47uF	16V
C231	VF760000		100uF	10V			C290	UM407220		22uF	16V
C232		C.CE.M.CHP	0. 1uF	25V			C291	UM407220		22uF	16V
C233		C.CE.M.CHP	0. luF	25V			C292	VJ837200		47uF	16V
C234		C.EL	100uF	16V			C293	VJ837200		47uF	16V
C235	UA653100	1	1000pF	50V			C295		C.CE.M.CHP	10pF	50V
C236	UA653100		1000pF	50V			C296	VJ837200		47uF	16V
C237	VF964800		100uF	16V			C297	VJ837200		47uF	16V
C238	VJ837200		47uF	16V			C299	VJ837200		47uF	16V
C239	VJ837200		47uF	16V			C300		C. CE. M. CHP	0. 1uF	25V
C240	UM417100		10uF	50V			C301	UA652100		100pF	50V
C241		C. CE. M. CHP	220pF	50V			C302	UA652100		100pF	50V
2242	UM417100		10uF	50V			C303	UA652100		100pF	50V
C243		C.CE.M.CHP	1000pF	50V			C304	UA652100		100pF	50V
244		C. CE. M. CHP	0. 1uF	25V			C305	1	C. CE. M. CHP	0.1uF	25V
C245		C. CE. M. CHP	0.1uF	25V 25V			C306		C.CE.M.CHP	0.1uF	25V 25V
245		C. CE. M. CHP	100pF	50V			C307		C. CE. M. CHP	0. 1uF	25V 25V
C240		C. EL	100pr 10uF	50V			C308		C. CE. M. CHP	47pF	50V
C248		C.EL	10uF	50V 50V			C309		C. CE. M. CHP	47pF 47pF	50V
C249		C. CE. M. CHP	100pF	50V			C310		C.CE.SMI	0. 1uF	25V
C250	UA654270	C. MYLAR	0.027uF	50V			D1		DIODE	1SS133	
C251	UA654270	C. MYLAR	0.027uF	50V			D2	iF004600		1SS133	
2252	UM417100		10uF	50V			D3	iF004600		1SS133	
C253	UM417100		10uF	50V			D4	iF004600		1SS133	
C254	UM417100		10uF	50V			D5	iF004600 iF004600		1SS133	
2255	UM417100		10uF	50V			D6			1SS133	

#### P.C.B. FUNCTION & DSP

	Schm Ref.	PART NO.	Desci	ription
			1	
	D7		DIODE. ZENR	MTZJ5.1A 5.1V
	D8		DIODE	1SS133
	D9		DIODE	1SS133
	D10		DIODE. ZENR	MTZJ6.8A 6.8V
	D11		DIODE	1SS133
	D12		DIODE.ZENR	MIZJ5.1B 5.1V
;	D13		DIODE.ZENR	MTZJ5.1A 5.1V
	D71		DIODE.ZENR	MIZJ5.1B 5.1V
	D201		DIODE.ZENR	MTZJ9.1B 9.1V
	D202		DIODE.ZENR	MTZJ9.1B 9.1V
	D203	iF004600	DIODE	1SS133
	D204	iF004600	DIODE	1SS133
*	IC1	XS670C00	IC	HD6433614P-XXX CPU
	IC2	XL493A00	IC	TC74HC4051AP
	IC3	XJ757A00	IC	NJM78L05A-T3
	IC4	XF494A00	IC	LB1641
	IC71	XE536001	IC	LC7535
	IC72	XB247301	IC	uPC4570HA
	IC111	XP896A00	IC	LC78213
	IC112		IC	TC9299P
	IC113		IC	TC9299P
	IC114		IC	TC9299P
	IC115		IC	TC9299P
	IC116		IC	NJM2068LD
	IC117		IC	uPC4570HA
	IC118		IC	uPC4570HA
	IC119		IC	uPC4570HA
	IC120		IC	uPC4570HA
		XB247301	IC	uPC4570HA
		XB247301	IC	uPC4570HA
		XB247301	IC	uPC4570HA
		XM356A00	IC	NJM2068LD
		XP581A00	IC	TC9273N-009
		XP580A00	ĨČ	TC9273N-004
		XP581A00	ĨĊ	TC9273N-009
	IC205		IC	TC4066BP
	IC206	XB247301	IC	uPC4570HA
	IC207		IC	uPC4570HA
	IC208	XB247301	IC	uPC4570HA
		XB247301 XB247301	IC	uPC4570HA
	IC210		IC	uPC4570HA
		XB247301	IC	uPC4570HA
		XB247301	IC	uPC4570HA
	IC213		IC	uPC4570HA
		XB247301 XB247301	IC	uPC4570HA
	IC214 IC215		IC	LC78211
	IC215 IC216	XP896A00	IC	LC78213
	IC210 IC217		IC	TC74HCU04AP
	IC217 IC218	iR015300	IC	TC74HC153AP MPX
	L201	GE901970	COIL	68uH
			JACK.PIN	4P
	-	VJ696300	JACK. PIN JACK. PIN	4P 4P
	PJ72 PJ73	VJ696300 VM750600	JACK. PIN JACK. PIN	4P 6P
	_		JACK. FIN	UI
	*New Pa	inte		

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	Schm Ref.	PART NO.	Desc	ription	
	PJ201	VQ260900	TACK, PIN	4P	
		VJ696300		4P	
*		VY667900	-	2P	
	Q1	iA093320	TR	2SA933S Q, R	
	Q2	VG722000		DTC144ES	
	Q3	iA093320	TR	2SA933S Q, R	
	Q4	iA093320	•	2SA933S Q, R	
	Q5	iA093320	1	2SA933S Q, R	
		iA093320		2SA933S Q, R	
	Q7	VD678700	TR. DGT	DTC114ES	
	Q71	iC287820	TR	2SC2878 A, B	
	Q72	iC287820	TR	2SC2878 A, B	
		iC287820	TR	2SC2878 A, B	
		iC287820		2SC2878 A, B	
		iC287820		2SC2878 A, B	
		iC287820		2SC2878 A, B	
-		iC287820		2SC2878 A, B	
ĺ	•				
	• -	iC287820		2SC2878 A, B	
	XL1	VE222400		8MHz	
		VJ828000		IMSA-6024-03E	
		BB071360	SCR. TERM	8.3x13	
*		VY770200		DSP(UC)	
		VZ051100		DSP(RAL)	
	CB1	VQ044100		5P	
	CB2	VF982200		14P	
	CB3	VQ045000		20P	
	C1	UB245100	C.CE.M.CHP	0.1uF 25V	
	C2	UB052100	C.CE.M.CHP	100pF 50V	
	C3	UB052100	C.CE.M.CHP	100pF 50V	
	C5	UB245100	C.CE.M.CHP	0.1uF 25V	
	C6	UB051330		33pF 50V	
	C7	UB245100	C. CE. M. CHP	0.1uF 25V	
	C8	UB013100	C. CE. M. CHP	1000pF 50V	
	C9	UB245100	C. CE. M. CHP	0.1uF 25V	
	C10	VF760000	C. EL	100uF 10V	
				4	
	C11	UB245100	C. CE. M. CHP	0.1 uF 25V	
	C12	UB051330	C. CE. M. CHP	33pF 50V	
	C13	UB245100	C. CE. M. CHP	0.1uF 25V	
	C14	UA653470	C. MYLAR	4700pF 50V	
	C15	UB052100	C.CE.M.CHP	100pF 50V	
	C16	UB052100	C.CE.M.CHP	100pF 50V	
	C17	UB052100	C.CE.M.CHP	100pF 50V	
	C18	UB245100	C.CE.M.CHP	0.1uF 25V	
	C19	UB245100	C.CE.M.CHP	0.1uF 25V	
	C20	VF760000	C.EL	100uF 10V	
	C21	VJ900900	C.CE.M.CHP	39pF 50V	
	C22	VJ900700	C. CE. M. CHP	33pF 50V	
	C22	UB052100	C. CE. M. CHP	100pF 50V	
	C23 C24	UB052100 UB052100	C. CE. M. CHP C. CE. M. CHP	-	
	C24 C25		C. CE. M. CHP C. CE. M. CHP	100pF 50V	
	V20	UB245100		0.1uF 25V	

\*New Parts

\* New Parts

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P.C.B. DSP

Schm Ref.	PART NO.	Desci	ription	· · · · ·		Schm <sup>.</sup> Ref.	PART NO.	Desci	ription	
C26	VJ900500		27pF	50V		C79	UB245100	C.CE.M.CHP	0.1uF	25
C27	VJ900500	C. CE. M. CHP	27pF	50V		C80	UB245100	C.CE.M.CHP	0.1uF	25
C28	UB044100	C. CE. M. CHP	0.01uF	50V		C81	UM417100	C.EL	10uF	5(
C28 C29	VJ836300	C. EL	330uF	6.3V		C82	VJ837200	C.EL	47uF	16
C29 C30	UB245100		0. luF	25V		C83	VJ836300	C.EL	330uF	6.
			$0.1 \mathrm{uF}$	25V 25V		C84	UB245100	C.CE.M.CHP	0. 1uF	25
C31	1					C85	UB245100	C.CE.M.CHP	0. 1uF	2
C32	UB052100		100pF	50V				C. CE. M. CHP	1	2
C33	UB052100	C. CE. M. CHP	100pF	50V		C86	UB245100		0.1uF	
C34	UB052100		100pF	50V		C87	UM417100	C.EL	10uF	5
C35	UB052100		100pF	50V		C88	UM417100	C.EL	10uF	5
C36	UB245100	C.CE.M.CHP	0.1uF	25V		C89	UM417100	C.EL	10uF	5
C37	VJ836300		330uF	6.3V		C90	VJ837200	C.EL	47uF	1
C38	UB245100	C.CE.M.CHP	0.1uF	25V		C91	VJ836300	C.EL	330uF	6
C39	UB245100		0.1uF	25V		C92	UB245100	C.CE.M.CHP	0.1uF	2
C40	VJ837200	C.EL	47uF	16V		C93	UB245100	C.CE.M.CHP	0.1uF	2
C41	VJ837200	C.EL	47uF	16V		C94	UM407220	C.EL	22uF	1
C42	VJ836300		330uF	6.3V		C95	UM407220	C.EL	22uF	1
C43		C. CE. M. CHP	0. 1uF	25V		C96	UM407220	C.EL	22uF	1
C43 C44	UB013330		3300pF	50V		C97	UA653560	C. MYLAR	5600pF	5
C44 C45	UB245100	C. CE. M. CHP	0. 1uF	25V		C98	UA653470	C. MYLAR	4700pF	5
C45 C46	UM417100	C. EL	10uF	50V		C99	UA652330	C. MYLAR	330pF	5
		C. CE. M. CHP	0.1uF	25V		C100	UA653470	C. MYLAR	4700pF	5
C47	UB245100			50V		C100	UA652330	C. MYLAR	330pF	5
C48	UM417100	C.EL	10uF						5600pF	5
C49	UM417100	C.EL	10uF	50V		C102	UA653560	C. MYLAR		
C50	UJ638330		330uF	16V		C103	UA653560	C. MYLAR	5600pF	5
C51	UB245100	1	0.1uF	25V		C104	UA653470	C. MYLAR	4700pF	- 5
C52	1		3300pF	50V		C105	UA652330	C. MYLAR	330pF	5
C53	UB044100	C.CE.M.CHP	0.01uF	50V		C106	UA653470	C. MYLAR	4700pF	5
C54	UB044100	C.CE.M.CHP	0.01uF	50V		C107	UA652330	C. MYLAR	330pF	5
C55	UB245100	C.CE.M.CHP	0. luF	25V		C108	UA653560	C. MYLAR	5600pF	5
C56	UB044100	C.CE.M.CHP	0.01uF	50V		C109	UM417100	C.EL	10uF	5
C57	UM407220	C.EL	22uF	16V		C110	UM417100	C.EL	10uF	5
C58	UA652330	C. MYLAR	330pF	50V		C111	UM417100	C.EL	10uF	5
C59	UA652330	}	330pF	50V		C112	UM417100		10uF	5
C60	UM407220		22uF	16V		C113		C.EL	47uF	1
C61	UM407220	C.EL	22uF	16V	1. A.	C114	VJ837200		47uF	1
C62	UA652330	C. MYLAR	330pF	50V		C115		C.EL	47uF	1
		C. CE. M. CHP	33pF	50V		C116	VJ837200	C.EL	47uF	1
C63	UB051330		-	50V 50V		C117	UM417100	C. EL	10uF	5
C64	UB051100		10pF				UM407220	C.EL	22uF	1
C65	UB051100		10pF	50V		C118	1			1
C66	UB051330		33pF	50V		C119	UM407220	C.EL	22uF	
C67	UB051330	C.CE.M.CHP	33pF	50V	t	C120	1	C. MICA	10pF	5
C68	UB051100	C.CE.M.CHP	10pF	50V		C121		C. MICA	10pF	5
C69	UB051100	C.CE.M.CHP	10pF	50V		C122	FU451100		10pF	5
C70	UB051330		33pF	50V		C123	UB052100		100pF	5
C71		C.CE.M.CHP	0.1uF	25V		C124		C.CE.M.CHP	100pF	5
C72	UB245100		0.1uF	25V		C125	UB052100		100pF	5
C73	UM417100	C.EL	10uF	50V		C126	UB052100	C.CE.M.CHP	100pF	5
C74	VJ837200	C.EL	47uF	16V	1	C127	UB052100		100pF	5
C75	VJ836300	C.EL	330uF	6.3V		C128	UB052100		100pF	5
C76	UB245100	C. CE. M. CHP	0. 1uF	25V	· ·	C129	UB052100	C.CE.M.CHP	100pF	5
C77	UB245100	C. CE. M. CHP	0.1uF	25V		C130	UB052100		100pF	5
		C. EL	10uF	50V		C130	UB052100	C. CE. M. CHP	100pF	5
C78										

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#### P.C.B. DSP & VIDEO

Schm Ref.	PART NO.	Desci	ription			Į	Schm Ref.	PART NO.	Descr	iption	
C132	UB052100	C.CE.M.CHP	100pF	50V		ſ	IC18	XF291A00	IC	uPC4570G	2
C133	UB052100	C.CE.M.CHP	100pF	50V			IC19	XF291A00	IC	uPC4570G	2
C134	UB052100	C. CE. M. CHP	100pF	50V			Q1	VC124000	TR.DGT	DTA144EK	
C134 C135	UB052100	C. CE. M. CHP	100pF	50V			Q2	VC124000	TR.DGT	DTA144EK	
C135	UB052100	C. CE. M. CHP	100pF	50V			Q3	VD303700	TR	2SC3326 /	
	UB052100	C. CE. M. CHP	100pF	50V	•		Q4	VD303700	TR	2SC3326	
C137		C. CE. M. CHP	100pF	50V			Q5	VD303700	TR	2SC3326	
C138	UB052100			50V			Q201	iC224030	TR	2SC2240	
C139	UB052100	C. CE. M. CHP	100pF				XL1	Vi551900	RSNR. CRYS	11.2896M	
C140	UB052100	C. CE. M. CHP	100pF	50V				VM651900	RSNR. CRYS	10.0MHz	1122
C141 .	UB052100	C. CE. M. CHP	100pF	50V			XL2			(UC)	
C142	UB052100	C.CE.M.CHP	100pF	50V				VZ037100	PLATE.GND		
C143	UB052100	C.CE.M.CHP	100pF	50V					•		
C144	VJ836300	C.EL	330uF	6.3V							
C145	UB245100	C.CE.M.CHP	0.1uF	25V						********	<b>x</b>
C146	VJ837200	C.EL	47uF	16V		*		VY770300		VIDEO (UC	)
C147	UB245100	C.CE.M.CHP	0. luF	25V		*		VY770400		VIDEO(R)	
C148	VJ837200	C.EL	47uF	16V		*		VY770500		VIDEO(A)	
C149	UB245100	C.CE.M.CHP	0. luF	25V		*		VY770600	P.C.B.	VIDEO(L)	
C150	UM417100	C.EL	10uF	50V			CB201	VD005000	CN.BS.PIN	7P	
C151	UM417100	C.EL	10uF	50V			CB203	VP206500	HOLDER. FUS	EYF-52BC	
C152	UM417100	C.EL	10uF	50V				VP206500	HOLDER. FUS	EYF-52BC	
C201	VJ836300	C.EL	330uF	6.3V				LA002320	TERM. WRAP	3P	
C201	UB245100	C. CE. M. CHP	0. 1uF	25V				VP206500	HOLDER. FUS	EYF-52BC	
C202	UB245100	C. CE. M. CHP	0. 1uF	25V				VP206500	HOLDER. FUS	EYF-52BC	
		C. CE. M. CHP	0.1uF	25V 25V				LA002320	TERM. WRAP	3P	
C204	UB245100							VD005100	CN. BS. PIN	8P	
D1		DIODE	1SS355				CB209 CB210		CN. BS. PIN	2P	
D2	VT332900	DIODE	1SS355				CB210 CB211		CN. BS. PIN	2P	
D3	VT332900	DIODE	1SS355					VD004300 VD004900	CN. BS. PIN	6P	
D4		DIODE	1SS355							2P	
D5		DIODE	1SS355					1	TERM, WRAP	3P	
D6		DIODE	1SS355					VL844700	CN. BS. PIN	1	
D7		DIODE	1SS355				CB501		CN. BS. PIN	2P	
D201		DIODE	1SR139			*	CB502		CN. BS. PIN	16P	
G1		TERM. GND	D3.5	TP00385					CN. BS. PIN	3P	
G2	VR463400	TERM. GND	D3.5	TP00385		*			CN.BS.PIN	16P	
G3	VR463400	TERM. GND	D3.5	TP00385			1	VQ047300	CN.BS.PIN	12P	
IC1		IC	TC74HC	02AF-TP1 NOR		$\triangle$			CN.BS.PIN	2P	
IC2	XR038A00	IC	NJM290	4M OP AMP			CB803	VP206500	HOLDER. FUS	EYF-52BC	
IC3	XG948E00		YM3436	DK			CB803	VS996100	CLIP.FUSE	EYF64BC(	
IC4	XS462B00			B-F:AC3F			CB804	VP206500	HOLDER. FUS	EYF-52BC	C(AL)
IC5	XS282A00			6FS-15Q SRAM			CB805	1	CLIP. FUSE	EYF64BC(	(UCR)
IC6	XH603A00			157AF-TP1					HOLDER. FUS	EYF-52BC	C(RL)
IC7	XS463A00			-F:HLDSP3					HOLDER. FUS	EYF-52BC	
IC7 IC8	XQ545A00			2N-10 PS-RAM					TERM. WRAP	2P	
	1 .		uPC457						TERM. WRAP	2P(R)	
IC9	XF291A00			-VM-E1			C201	VJ837200		47uF	16V
IC10	XR361A00		1				C201		C. CE. TUBLR	100pF	50V
IC11	XR361A00			-VM-E1	1			UA652100		100pF	50V
IC12	XR361A00	1		-VM-E1			C203			100pr	50V
IC13	XF291A00		uPC457				C204	UM417100			50V
IC14	XF291A00		uPC457				C205	UM417100		10uF	
IC15	· XF291A00		uPC457		- ·		C206	VJ839000		0.47uF	50V
IC16	iG103520		NJM455		1		C207	VJ839000		0.47uF	50V
IC17	iG103520	IC	NJM455	58MT-1			C208	UM417100	C. EL	10uF	50V
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\*New Parts

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\*New Parts

RX-V2092

P.C.B. VIDEO

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2	Schm		n					Schm		<b>D</b>		
RX-V2092	Ref.	PART NO.		ription		4		Ref.	PART NO.		ription	
2	C209	UM417100		10uF	50V			C510	UB052100	C.CE.M.CHP	100pF	50V
	C210	VJ837200		47uF	16V			C511	UB052100		100pF	50V
X	C211	VF466800		100pF	50V			C512	UB051220	C.CE.M.CHP	22pF	50V
	C212	UA652100	C. MYLAR	100pF	50V			C513	UM417100	C.EL	10uF	50V
	C213	VR325000		100pF	100V			C514	VF637900	C.EL	1000uF	10V
	C214	UA654100		0.01uF	50V			C515	UB245100	C.CE.M.CHP	0.1uF	25V
	C215	FU451330		33pF	500V			C516	UB245100	C. CE. M. CHP	0. 1uF	25V
	C216	UJ648100	C.EL	100uF	25V			C517	VJ837200	C.EL	47uF	16V
	C217	VJ837200	C.EL	47uF	16V			C518	VJ837200	C.EL	47uF	16V
	C218	UA654470	C. MYLAR	0.047uF	50V			C519	VJ837200	C.EL	47uF	16V
	C219	VF964800	C.EL	100uF	16V			C520	VJ837200	C.EL	47uF	16V
	C220	VR325000	C. MYLAR	100pF	100V	ŀ.,		C521	VJ837200	C.EL	47uF	16V
	C221	VR325000	C. MYLAR	100pF	100V			C601	UB052100	C.CE.M.CHP	100pF	50V
	C222	UA654470	C. MYLAR	0.047uF	50V			C602	UB052100	C.CE.M.CHP	100pF	50V
	C223	UA654100	C. MYLAR	0.01uF	50V			C603	UB052100		100pF	50V
	C224	FU451330	C. MICA	33pF	500V			C604		C.CE.M.CHP	100pF	50V
	C225	UJ648100	C.EL	100uF	25V			C605		C.CE.M.CHP	100pF	50V
	C226	VJ837200	C. EL	47uF	16V			C606	UB052100		100pF	50V
	C227	VF964800	C.EL	100uF	16V			C607	UM417100	C.EL	10uF	50V
	C228	VR325000	C. MYLAR	100pF	100V			C608	UM417100		10uF	50V
Â	C229	UA655100	C. MYLAR	0. 1uF	50V			C609	UM417100		10uF	50V
*	10200	VY841300	C.EL	3300uF	50V(UCA)			C610	UM417100		10uF	50V
	C230	VN126700	C.EL	3300uF	50V(RL)			C611	UM417100		10uF	50V
Â	C231	UA655100	C. MYLAR	0.1uF	50V			C612	UM417100	C.EL	10uF	50V
*	0202	VY841300	C.EL	3300uF	50V(UCA)			C613	VF637900		1000uF	10V
	C232	VN126700	C.EL	3300uF	50V(RL)			C614	VF637900	C.EL	1000uF	10V
	C233	VH053100	C. CE. TUBLR	0.1uF	50V			C615	UM417100	C.EL	10uF	50V
	C235	UA655100	C. MYLAR	0.1uF	50V			C616	VF637900		1000uF	10V
	C236	VH520900	C.EL	4700uF	16V			C617	UB013330	C. CE. M. CHP	3300pF	50V
	C237	VH507200	C. EL	6800uF	16V			C618	VJ837200		47uF	16V
	C238	VH507200	C.EL	6800uF	16V			C619	VJ837200		47uF	16V
	C239	UA655100	C. MYLAR	0. 1uF	50V			C620	UB012820		820pF	50V
	C240	VH520900	C.EL	4700uF	16V			C621	VF760000		100uF	10V
	C241	UM417100	C.EL	10uF	50V			C622	VJ837200		47uF	16V
		VJ837200		47uF	16V			C623		C.CE.M.CHP		50V
	C243	UM417100	C.EL	10uF	50V			C624		C. CE. M. CHP	0.01uF	50V
	C244		C.EL	10uF	50V			C625	VJ837200		47uF	16V
	C245		C.EL	47uF	16V			C626	UM417100		10uF	50V
	C246		C. EL	luF	50V			C627	1	C. CE. M. CHP	1200pF	50V
	C247	VJ839100		luF	50V			C628		C.CE.M.CHP	470pF	50V
	C248	VJ837200		47uF	16V			C629	VJ839100		luF	50V
	C249	VJ651100		1000uF	16V			C630	VJ839100		luF	50V
	C250	VJ651100		1000uF	16V			C631		C. CE. M. CHP	0. 1uF	25V
	C251		C. CE. TUBLR	1000pF	50V			C632	VJ837200		47uF	16V
	C501	VF637900		1000uF	10V			C633		C.CE.M.CHP	0.1uF	25V
	C502	UM417100		10uF	50V			C634	VJ837200		47uF	16V
	C503		C.CE.M.CHP	100pF	50V			C635		C. CE. M. CHP	8pF	50V
	C504		C.CE.M.CHP	0.1uF	25V		.1.	C636		C. CE. M. CHP	7pF	50V
	C505	UM417100		10uF	50V		*	C637		C.CE.M.CHP	24pF	50V
	C506		C. CE. M. CHP	0.1uF	25V		*	C638		C. CE. M. CHP	24pF	50V
	C507		C.EL	1000uF	10V			C639	UB012220	C.CE.M.CHP	220pF	50V
1												
	C508 C509	UB052100 VF637900	C.CE.M.CHP C.EL	100pF 1000uF	50V 10V			C640 C641	UM417100 UM416470	C.EL	10uF 4.7uF	50V 50V

\* New Parts

\* New Parts

Description

1P 2P

2P 2P

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2SC1815 Y 2SA1015 Y 2SC4488 S, T 2SC4512 0, P, Y 2SC2240 GR, BL 2SA1708 S,T 2SC2240 GR, BL 2SC4512 0, P, Y 2SC4488 S,T 2SC4512 0, P, Y 2SC2240 GR, BL 2SA1708 S, T

2SC2240 GR, BL 2SC4512 0, P, Y 2SC2603 E, F 2SA1015 Y 2SC535 A, B, C 2SC2603 E, F

DTA143ES 2SC2878 A, B

DTA144ES

DTA144ES

DTC114ES 2SC2603 E, F

2SC2603 E, F 2SA1015 Y 2SC535 A, B, C 2SC2240 GR, BL 2SD2396 J,K(R) DTC143XS

2SK246 Y(R)

TC74HC4051AP TC74HC4051AP TC74HC4051AP TC74HC4051AP TC4066BP TC4053BP TC74HCU04AP MC14576CP MC14576CP MC14576CP LC74781-9626

P.C.B. VIDEO

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	Schm Ref.	PART NO.		ription			Schm Ref.	PART NO.	
	C642	VJ837200	C.EL	47uF	16V		IC601	XLA93A00	IC
	C643	VJ837200		47uF	16V		IC602	XL493A00	IC
	C644	VJ900700		33pF			IC603	XL493A00	IC
	C645	VJ900300		22pF	50V		IC604	XL493A00	IC
	C801	VR324600		0.01uF	100V		IC605	iG001270	IC
	C802	Ui377470	C.EL	47uF	63V(R)	•	IC606	iG055100	IC
	C803	VF606700	C.EL	1000uF	25V		IC607	iG142200	IC
<b>∆</b> *	C805	VV975400		0.01uF	275V			Xi109D00	IC
- 25	D201	VG442500	DIODE.ZENR	MTZJ24B	24V			Xi109D00	IC
	D201 D202	VG442500		MTZJ24B	24V			Xi109D00	IC
	D202	iF004600		1SS133	011		IC611		IC
	D203	iF004600		1SS133			JK601		CN. DIN
	D204 D205	iF004600		1SS133		•	JK602		CN. DIN
	D203 D206	iF004600		1SS133			JK602 JK603	VP113600	CN. DIN
٨	D200 D207	VT359600		D3SBA20	4A 200V		JK603	VT973000	CN. DIN
A	D207 D208	VP344100		D2SBA20	1.5A 200V		L201	GD900470	COIL
≙		iF004600		1SS133	1.37 2007		L201 L202	GD900470 GD900470	COIL
	D209	VC398400		MA185			L202 L601	VG668700	COIL
	D210	iF004600		1SS133			PJ501	VR110100	JACK. PIN
	D601	iF004600		1SS133			PJ502	VR110100	JACK. PIN
	D602			1SS135 1SS133			PJ502	VR110100 VR110100	JACK. PIN
	D603	iF004600					PJ503	VR110100 VR110100	JACK. PIN
	D604	iF004600		1SS133					TR
	D605	iF004600		1SS133		≙	Q201	iC1815C0	TR
	D606	iF004600		1SS133		Δ	Q202	iA101521 VP872700	TR
	D607	iF004600		1SS133			Q203 Q204	VF872700 VK174800	TR
	D608	iF004600		1SS133		Δ	Q204 Q205	iC224030	TR
	D609	iF004600		1SS133			Q205 Q206	VP872600	TR
	D610	iF004600		1SS133		≙		iC224030	TR
	D611	iF004600		1SS133			Q207 Q208		TR
	D612	iF004600		1SS133	1 04 9000		Q208 Q209	VK174800 VP872700	TR
$\triangle$	D801	VR253700		S1NB20	1.0A 200V		•		TR
	D802	iF004600	DIODE ZEND	1SS133	11V/D)	$\triangle$	Q210	VK174800	TR
	D803	VG439900	DIODE.ZENR	MTZJ11B	11V(R)		Q211	iC224030	TR
Δ	F201	KB003240	FUSE		250V(RAL)	Δ	Q212	VP872600	TR
Δ	F201		FUSE		25V(UC)	:	Q213		
Δ	F202	KB003240	FUSE		250V(RAL)	$\mathbb{A}$	Q214	VK174800	TR
⚠	F202	KB003640	FUSE		25V(UC)		Q501	iC260320	TR
$\triangle$	F801	KB000780	FUSE		250V(AL)		Q502	iA101521	TR
$\triangle$	F801	KB001390		1 · · · ·	250V(UCR)		Q503	iC053540	TR
Δ	F802	KB000780	FUSE	1	250V(R)		Q601	iC260320	TR TR DOT
$\triangle$	F802	KB002980	FUSE		250V(L)		Q602	VH964100	TR. DGT
	G201	VR463400	TERM. GND		P00385		Q603	iC287820	TR DOT
	IC201		IC	M5220L			Q604	VG721700	TR. DGT
$\triangle$	IC205		IC	NJM78M05			Q605	VG721700	TR. DGT
$\land$	IC206		IC	NJM78M05			Q606	VD678700	TR. DGT
$\triangle$	IC207		IC	NJM7812I			Q607	iC260320	TR '
$\land$		XE436A00	IC	NJM79M05		I.	Q608	iC260320	TR
$\triangle$	IC209		IC	NJM79M12			Q609	iA101521	TR
		XL493A00	IC	TC74HC40			Q610	iC053540	TR
		XL493A00	IC	TC74HC40			Q611	iC224030	TR
	IC503		IC	TC4066BI		⚠	Q801	VR510800	TR
		Xi109D00	IC	MC145760	۲ Y		Q802	VD488500	TR. DGT
	1C505	XK313A00	IC	LC7824			Q803	iE102620	FET
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RX-V2092

#### P.C.B. VIDEO & MAIN

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2		Schm	DADE NO			Schm	D ( D ( ) 10	P		
<u>ق</u>		Ref.	PART NO.	Desc	ription	Ref.	PART NO.	Desc	ription	
2	$\triangle$	R210	VE869300	R.MTL.OXD	0.1Ω 2W	C116	VH520500	C.EL	1000uF	35V
	$\overline{\mathbb{A}}$	R226	VE869300	R. MTL. OXD	0.1Ω 2W	C119	VJ836900	C.EL	10uF	16V
RX-V2092	$\mathbb{A}$	R242	HL324120	R. MIL. OXD	$12 \Omega$ 2W	C121	VH574800	C.EL	47uF	100V
					$15\Omega$ 1W	C121	UT452100	C.PP	100pF	100V 100V
	Δ	R244	VP939900	R. MIL. OXD						
	$\land$	R248		R.MIL.FLM	1Ω 1₩	C123	UM417100	C.EL	10uF	50V
	⚠	R249	VP939500	R.MIL.FLM	$1\Omega$ 1W	C124	UA652100	C. MYLAR	100pF	50V
	$\triangle$	R250	HL324120	R.MTL.OXD	$12 \Omega$ 2W	C125	UT452100	C.PP	100pF	100V
	⚠	R251	VP939900	R.MTL.OXD	15Ω 1W	C126	UM417100	C.EL	10uF	50V
	⚠	R262	HL324120	R.MTL.OXD	12Ω 2W	C127	VH574800	C.EL	47uF	100V
	⚠	R263		R.MTL.OXD	15Ω 1W	C128	UT452100	C.PP	100pF	100V
	$\triangle$	RY801	VK539200	RELAY	DC DH12D1-O/M(R)	C129	UM417100	C.EL	10uF	50V
	∆*	RY801	VV950000	RELAY	VS-12MB-NR (UCAL)	C130	UA652100	C. MYLAR	100pF	50V
			XC082A00	TRANS. PWR	(R)	C131	UT452100	C. PP	100pF	100V
	Δ	T801								
	$\triangle$	T801	XQ485A00	TRANS. PWR	(UC)	C132	UM417100	C. EL	10uF	50V
	⚠	T801	XQ486A00	TRANS. PWR	(AL)	C133	VH574800	C.EL	47uF	100V
	$\triangle$	TE801		OUTLET. AC	2P(A)	C134	UT452100	C.PP	100pF	100V
	$\triangle$	TE801	W118800	OUTLET. AC	3P(UCL)	C135	UM417100		10uF	50V
	$\mathbb{A}$	TE801	VV119000	OUTLET. AC	3P(L)	C136	UA652100	C. MYLAR	100pF	50V
	*	TH201	VM842300	POSISTOR	PTH9MO4 BF :80°C	C137	UT452100	C. PP	100pF	100V
		XL601	VV949800	RSNR. CRYS	14.31818MHz(UCR)	C138	UM417100	C.EL	10uF	50V
		XL601	VV949900	RSNR. CRYS	17.734475MHz (AL)	C139	VH574800	C. EL	47uF	100V
			VJ828000	PIN	IMSA-6024-03E	C140	UT452100	C. PP	100pF	100V
			4 =					C.EL	100pr	50V
			BB071360	SCR. TERM	8.3x13	C141	UM417100			
						C142	UA652100	C. MYLAR	100pF	50V
						C143	UT452100	C. PP	100pF	100V
						C144	UM417100	C.EL	10uF	50V
	*		VY770700		MAIN(UCA)	C145	VH574800	C.EL	47uF	100V
	*		VY770800	P.C.B.	MAIN(R)	C146	UT452100	C. PP	100pF	100V
	*		VY809000	P.C.B.	MAIN(L)	C147	UM417100	C.EL	10uF	50V
		CB102	VQ047400	CN.BS.PIN	19P	C148	UT452100	C.PP	100pF	100V
			VD004500	CN.BS.PIN	2P	C149	UM417100	C.EL	10uF	50V
		CB105		CN. BS. PIN	8P	C150	VK533900	C. PP	100pF	200V
			LA002110	TERM. WRAP	2P	C151	UT453120	C. PP	1200pF	100V
			VL844800	CN. BS. PIN	4P	C152	UA653330		3300pF	50V
					8P		FU451150			500V
				CN. BS. PIN					15pF	
		CB603		CN. BS. PIN	3P	C154	UM416470	C.EL	4.7uF	50V
			LB918020	CN.BS.PIN	2P	C155	UA654100	C. MYLAR	0.01uF	50V
	*		LA002330	TERM. WRAP	4P .	C156	VF964800	C.EL	100uF	16V
		C101	UA652470	C.MYLAR	470pF 50V	C157	UJ167330	C.EL	33uF	50V
		C102	UA652470	C. MYLAR	470pF 50V	C159	VK533900	C.PP	100pF	200V
		C103	UA652470	C. MYLAR	470pF 50V	C160	VK533900	C. PP	100pF	200V
		C104	UA652470	C. MYLAR	470pF 50V	C161	UT453120	C.PP	1200pF	100V
		C105	UA654100	C. MYLAR	0.01uF 50V	C162	UA653330	C. MYLAR	3300pF	50V
		C106	UA652470	C. MYLAR	470pF 50V	C163	FU451150	C. MICA	15pF	500V
		C100	UA652470	C. MYLAR	470pF 50V	C164	UM416470	C.EL	4.7uF	50V
		C107 C108	UA652470	C. MYLAR	470pF 50V	C165	UA654100	C. MYLAR	0.01uF	50V
								C.EL	100uF	16V
		C109	UA652470	C. MYLAR	470pF 50V	C166	VF964800			
		C110	UA652470	C. MYLAR	470pF 50V	C167	UJ167330	C.EL	33uF	50V
		C111	UM417100	C.EL	10uF 50V	C169	VK533900	C. PP	100pF	200V
		C112	UJ668100	C.EL	100uF 50V	C170	VK533900	C.PP	100pF	200V
		C113	VJ836900	C.EL	10uF 16V	C171	UT453120	C.PP	1200pF	100V
		C114	VF760000	C.EL	100uF 10V	C172	UA653330	C. MYLAR	3300pF	50V
		C115	VF760000	C.EL	100uF 10V	C173	FU451150	C.MICA	15pF	500V
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		* New Pa	arts			* New Pa	arts			

P.C.B. MAIN

Ref.         PART NO.         Description           C174         UM416470         C.EL         4.7uF         50V           C175         UA654100         C.MYLAR         0.01uF         50V           C177         UJ67330         C.EL         100uF         16V           C177         UJ67330         C.PP         100pF         200V           C180         VK533900         C.PP         100pF         200V           C181         UT453120         C.PP         1200pF         100V           C182         UA653330         C.MYLAR         3300pF         50V           C184         UM416470         C.EL         4.7uF         50V           C185         UA654100         C.MYLAR         0.01uF         50V           C184         UM416470         C.EL         33uF         50V           C198         VK533900         C.PP         100pF         200V           C191         UT453120         C.PP         1200pF         100V           C192         UA653330         C.MYLAR         3300pF         50V           C193         FU451150         C.MILAR         0.01uF         50V           C194         UM416470	Schm				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ref.	PART NO.			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
C180VK533900C. PP $100pF$ $200V$ C181UT453120C. PP $1200pF$ $100V$ C182UA653330C. MYLAR $3300pF$ $50V$ C183FU451150C. EL $4.7uF$ $50V$ C184UM416470C. EL $4.7uF$ $50V$ C185UA654100C. MYLAR $0.01uF$ $50V$ C186VP964800C. EL $100uF$ $16V$ C187UJ167330C. EL $33uF$ $50V$ C189VK533900C. PP $100pF$ $200V$ C190VK533900C. PP $100pF$ $200V$ C191UT453120C. PP $1200pF$ $100V$ C192UA653330C. MILAR $3300pF$ $50V$ C194UM416470C. EL $4.7uF$ $50V$ C195UA654100C. MYLAR $0.01uF$ $50V$ C196VF964800C. EL $100uF$ $16V$ C197UJ167330C. EL $33uF$ $50V$ C200UM216330C. EL $33uF$ $50V$ C201UJ897100C. EL $10uF$ $100V$ C202U4655330C. MYLAR $0.33uF$ $50V$ C203UJ638330C. EL $330uF$ $16V$ C204UJ897100C. EL $10uF$ $100V$ C205UA654470C. MYLAR $0.347uF$ $50V$ C206UJ897100C. EL $10uF$ $100V$ C207UA655330C. MYLAR $0.33uF$ $50V$ C209		-			
C181UT453120C. PP $1200pF$ $100V$ C182UA653330C. MYLAR $3300pF$ $50V$ C183FU451150C. MICA $15pF$ $500V$ C184UM416470C. EL $4.7uF$ $50V$ C185UA654100C. MYLAR $0.01uF$ $50V$ C186VF964800C. EL $100uF$ $16V$ C187UJ167300C. EL $33uF$ $50V$ C189VK533900C. PP $100pF$ $200V$ C190VK533900C. PP $100pF$ $200V$ C191UT453120C. PP $120pF$ $100V$ C192UA653330C. MYLAR $3300pF$ $50V$ C193FU451150C. MICA $15pF$ $50V$ C194UM416470C. EL $100uF$ $16V$ C197UJ167330C. EL $100uF$ $16V$ C197UJ167330C. EL $33uF$ $50V$ C199VK533900C. PP $100pF$ $200V$ C200UM216330C. EL $33uF$ $50V$ C201UJ897100C. EL $10uF$ $100V$ C202UA655330C. MYLAR $0.33uF$ $50V$ C203UJ638330C. EL $30uF$ $16V$ C204UJ897100C. EL $10uF$ $100V$ C205UA654470C. MYLAR $0.33uF$ $50V$ C206UJ897100C. EL $10uF$ $100V$ C207UA654470C. MYLAR $0.47uF$ $50V$ C208 <td></td> <td></td> <td></td> <td></td> <td></td>					
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C133FU451150C. MICA15pF500VC184UM416470C. EL4. 7uF50VC185UA654100C. MYLAR0. 01uF50VC186VF964800C. EL100uF16VC187UJ167330C. EL33uF50VC189VK533900C. PP100pF200VC190VK533900C. PP1200pF100VC191UT453120C. PP1200pF100VC192UA653330C. MYLAR3300pF50VC193FU451150C. MICA15pF50VC194UM416470C. EL4. 7uF50VC195UA654100C. MYLAR0. 01uF50VC196VF964800C. EL100uF16VC197UJ167330C. EL33uF50VC199VK533900C. PP100pF200VC200UM216330C. EL33uF50VC201UJ897100C. EL10uF100VC202UA655330C. MYLAR0. 33uF50VC204UJ897100C. EL10uF100VC205UA654470C. MYLAR0. 33uF50VC206UJ897100C. EL10uF100VC207UA655330C. MYLAR0. 33uF50VC208UJ638330C. EL330uF16VC209UA654470C. MYLAR0. 33uF50VC209UA654470C. MYLAR0. 047uF50VC210 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
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C189VK533900C. PP $100pF$ $200V$ C190VK533900C. PP $100pF$ $200V$ C191UT453120C. PP $1200pF$ $100V$ C192UA653330C. MYLAR $3300pF$ $50V$ C193FU451150C. MICA $15pF$ $500V$ C194UM416470C. EL4. 7uF $50V$ C195UA654100C. MYLAR0. 01uF $50V$ C195UA654100C. EL $33uF$ $50V$ C197UJ167330C. EL $33uF$ $50V$ C200UM216330C. EL $3.3uF$ $50V$ C201UJ897100C. EL $10uF$ $100V$ C202UA655330C. MYLAR $0. 33uF$ $50V$ C203UJ638330C. EL $10uF$ $100V$ C204UJ897100C. EL $10uF$ $100V$ C205UA654470C. MYLAR $0. 447uF$ $50V$ C206UJ897100C. EL $10uF$ $100V$ C207UA655330C. MYLAR $0. 33uF$ $50V$ C208UJ638330C. EL $330uF$ $16V$ C209UA654470C. MYLAR $0. 047uF$ $50V$ C210UJ897100C. EL $10uF$ $100V$ C211UJ897100C. EL $10uF$ $100V$ C212UJ897100C. EL $10uF$ $100V$ C213UJ638330C. EL $330uF$ $16V$ C214UA654470C. MYLAR $0. 047uF$ $50V$ <td< td=""><td></td><td></td><td>1</td><td></td><td></td></td<>			1		
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C193FU451150C. MICA $15pF$ $500V$ C194UM416470C. EL $4.7uF$ $50V$ C195UA654100C. MYLAR $0.01uF$ $50V$ C196VF964800C. EL $100uF$ $16V$ C197UJ167330C. EL $33uF$ $50V$ C199VK533900C. PP $100pF$ $200V$ C200UM216330C. EL $3.3uF$ $50V$ C201UJ897100C. EL $10uF$ $100V$ C202UA655330C. MYLAR $0.33uF$ $50V$ C203UJ638330C. EL $330uF$ $16V$ C204UJ897100C. EL $10uF$ $100V$ C205UA654470C. MYLAR $0.047uF$ $50V$ C206UJ897100C. EL $10uF$ $100V$ C207UA655330C. MYLAR $0.33uF$ $50V$ C208UJ638330C. EL $330uF$ $16V$ C209UA654470C. MYLAR $0.047uF$ $50V$ C210UJ897100C. EL $10uF$ $100V$ C211UJ897100C. EL $10uF$ $100V$ C212UJ63830C. EL $330uF$ $16V$ C214UA654470C. MYLAR $0.047uF$ $50V$ C215UJ897100C. EL $10uF$ $100V$ C214UJ63830C. EL $330uF$ $16V$ C214UJ63830C. EL $10uF$ $100V$ C215UJ897100C. EL $10uF$ $100V$ C216 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
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C195UA654100C. MYLAR $0.01\mu$ $50V$ C196VF964800C. EL $100\mu$ $16V$ C197UJ167330C. EL $33\mu$ $50V$ C199VK533900C. PP $100p$ $200V$ C200UM216330C. EL $3.u$ $50V$ C201UJ897100C. EL $10u$ $100V$ C202UA655330C. MYLAR $0.33u$ $50V$ C203UJ638330C. EL $330u$ $16V$ C204UJ897100C. EL $10u$ $100V$ C205UA654470C. MYLAR $0.047u$ $50V$ C206UJ897100C. EL $10u$ $100V$ C207UA655330C. MYLAR $0.33u$ $50V$ C208UJ638330C. EL $330u$ $16V$ C209UA654470C. MYLAR $0.047u$ $50V$ C210UJ897100C. EL $10u$ $100V$ C211UJ897100C. EL $10u$ $100V$ C212UJ897100C. EL $10u$ $100V$ C213UJ638330C. EL $330u$ $16V$ C214UA654470C. MYLAR $0.047u$ $50V$ C215UJ897100C. EL $10u$ $100V$ C216UJ897100C. EL $10u$ $100V$ C217UJ638330C. EL $330u$ $16V$ C214UA654470C. MYLAR $0.047u$ $50V$ C215UJ897100C. EL $10u$ $100V$ C214UJ658330					
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C214       UA654470       C. MYLAR       0.047uF       50V         C215       UJ897100       C. EL       10uF       100V         C216       UJ897100       C. EL       10uF       100V         C217       UJ638330       C. EL       330uF       16V         C218       UA654470       C. MYLAR       0.047uF       50V         C219       UJ897100       C. EL       330uF       16V         C220       UJ897100       C. EL       10uF       100V         C221       UJ638330       C. EL       330uF       16V         C222       UA654470       C. MYLAR       0.047uF       50V         C221       UJ638330       C. EL       330uF       16V         C222       UA654470       C. MYLAR       0.047uF       50V         C230       UA652100       C. MYLAR       100pF       50V         C231       UJ648100       C. EL       100uF       25V         C232       UJ648100       C. EL       100uF       25V         C233       UJ648100       C. EL       100uF       25V         C234       UJ648100       C. EL       100uF       25V         C235 <td></td> <td></td> <td></td> <td></td> <td></td>					
C215       UJ897100       C. EL       10uF       100V         C216       UJ897100       C. EL       10uF       100V         C217       UJ638330       C. EL       330uF       16V         C218       UA654470       C. MYLAR       0. 047uF       50V         C219       UJ897100       C. EL       10uF       100V         C220       UJ897100       C. EL       10uF       100V         C221       UJ638330       C. EL       330uF       16V         C222       UA654470       C. MYLAR       0. 047uF       50V         C221       UJ638330       C. EL       330uF       16V         C222       UA654470       C. MYLAR       0. 047uF       50V         C230       UA652100       C. MYLAR       100pF       50V         C231       UJ648100       C. EL       100uF       25V         C232       UJ648100       C. EL       100uF       25V         C233       UJ648100       C. EL       100uF       25V         C234       UJ648100       C. EL       100uF       25V         C235       UJ648100       C. EL       100uF       25V         C236					
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C218       UA654470       C. MYLAR       0.047uF       50V         C219       UJ897100       C. EL       10uF       100V         C220       UJ897100       C. EL       10uF       100V         C221       UJ638330       C. EL       330uF       16V         C222       UA654470       C. MYLAR       0.047uF       50V         C230       UA652100       C. MYLAR       0.047uF       50V         C231       UJ648100       C. EL       100uF       25V         C232       UJ648100       C. EL       100uF       25V         C233       UJ648100       C. EL       100uF       25V         C234       UJ648100       C. EL       100uF       25V         C235       UJ648100       C. EL       100uF       25V         C235       UJ648100       C. EL       100uF       25V         C236       UM215100       C. EL       0.1uF       50V		-			
C219       UJ897100       C. EL       10uF       100V         C220       UJ897100       C. EL       10uF       100V         C221       UJ638330       C. EL       330uF       16V         C222       UA654470       C. MYLAR       0.047uF       50V         C230       UA652100       C. MYLAR       100pF       50V         C231       UJ648100       C. EL       100uF       25V         C232       UJ648100       C. EL       100uF       25V         C233       UJ648100       C. EL       100uF       25V         C234       UJ648100       C. EL       100uF       25V         C235       UJ648100       C. EL       100uF       25V         C235       UJ648100       C. EL       100uF       25V         C236       UM215100       C. EL       0.1uF       50V		-			
C220         UJ897100         C. EL         10uF         100V           C221         UJ638330         C. EL         330uF         16V           C222         UA654470         C. MYLAR         0.047uF         50V           C230         UA652100         C. MYLAR         100pF         50V           C231         UJ648100         C. EL         100uF         25V           C232         UJ648100         C. EL         100uF         25V           C233         UJ648100         C. EL         100uF         25V           C234         UJ648100         C. EL         100uF         25V           C235         UJ648100         C. EL         100uF         25V           C234         UJ648100         C. EL         100uF         25V           C235         UJ648100         C. EL         100uF         25V           C236         UM215100         C. EL         0.1uF         50V				1	
C221       UJ638330       C. EL       330uF       16V         C222       UA654470       C. MYLAR       0.047uF       50V         C230       UA652100       C. MYLAR       100pF       50V         C231       UJ648100       C. EL       100uF       25V         C232       UJ648100       C. EL       100uF       25V         C233       UJ648100       C. EL       100uF       25V         C234       UJ648100       C. EL       100uF       25V         C235       UJ648100       C. EL       100uF       25V         C234       UJ648100       C. EL       100uF       25V         C235       UJ648100       C. EL       100uF       25V         C236       UM215100       C. EL       0. 1uF       50V					
C222UA654470C. MYLAR0.047uF50VC230UA652100C. MYLAR100pF50VC231UJ648100C. EL100uF25VC232UJ648100C. EL100uF25VC233UJ648100C. EL100uF25VC234UJ648100C. EL100uF25VC235UJ648100C. EL100uF25VC236UM215100C. EL0.1uF50V		-			
C230UA652100C. MYLAR100pF50VC231UJ648100C. EL100uF25VC232UJ648100C. EL100uF25VC233UJ648100C. EL100uF25VC234UJ648100C. EL100uF25VC235UJ648100C. EL100uF25VC236UM215100C. EL0. 1uF50V	1				
C231UJ648100C. EL100uF25VC232UJ648100C. EL100uF25VC233UJ648100C. EL100uF25VC234UJ648100C. EL100uF25VC235UJ648100C. EL100uF25VC236UM215100C. EL0. 1uF50V					
C232UJ648100C. EL100uF25VC233UJ648100C. EL100uF25VC234UJ648100C. EL100uF25VC235UJ648100C. EL100uF25VC236UM215100C. EL0. 1uF50V		1		-	
C233UJ648100C. EL100uF25VC234UJ648100C. EL100uF25VC235UJ648100C. EL100uF25VC236UM215100C. EL0. 1uF50V		-			
C234UJ648100C. EL100uF25VC235UJ648100C. EL100uF25VC236UM215100C. EL0. 1uF50V					
C235UJ648100C. EL100uF25VC236UM215100C. EL0. 1uF50V		-			
C236 UM215100 C.EL 0.1uF 50V					
			0.111	0.10	

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	Schm	DADT NO	Docos	intion	
	Ref.	PART NO.		iption	
	C237	UM215100	C.EL		50V
	C238	UM215100	C.EL		50V
	C239	UM215100	C.EL		50V
	C240	UM215100	C.EL	0.luF	50V
	C241	UA654100	C. MYLAR	0.01uF	50V
	C242	VJ839100	C.EL		50V
	C243	VF467300	C. CE. TUBLR	0.01uF	16V(UCA)
	C701	VR325400	C. MYLAR	0. luF	100V
*	C701	VY818300	C. EL		71V
	C702	VR325400	C. MYLAR	$0.1 \mathrm{uF}$	100V
*	C703	VX818300	C.EL		71V
•		UA655100	C. EL C. MYLAR		50V
	C705			1SS133	JU 1
	D101	iF004600	DIODE		
	D102	iF004600	DIODE	1SS133	
	D103	iF004600	DIODE	1SS133	
	D104	VQ250500	PHOT. CPL	TLP621	
	D105	iF004600	DIODE	1SS133	
1	D106	iF004600	DIODE	1SS133	
	D107	iF004600	DIODE	1SS133	
	D108	iF004600	DIODE	1SS133	
	D109	VG442600	DIODE.ZENR	MTZJ24C	24V
	D113	iF004600	DIODE	1SS133	
	D114	iF004600	DIODE	1SS133	
	D115	iF004600	DIODE	1SS133	
	D116	iF004600	DIODE	1SS133	
	D110 D117	iF004600	DIODE	1SS133	
	D118	iF004600	DIODE	1SS133	
	D110 D119	iF004600	DIODE	1SS133 1SS133	
	D119 D120	iF004600	DIODE	1SS133 1SS133	
			DIODE	MA185	
	D122	VC398400	DIODE	MA185 MA185	
	D124	VC398400			
	D126	VC398400	DIODE	MA185	
	D128	VC398400	DIODE	MA185	
	D130	VC398400	DIODE	MA185	
	D132	VC398400	DIODE	MA185	
	D134	VC398400	DIODE	MA185	
	D136	VC398400	DIODE	MA185	
	D138	VC398400	DIODE	MA185	
	D140	VC398400	DIODE	MA185	
	D141	VU264100	DIODE	1SR139-400	)
⚠	D142	VC398400	DIODE	MA185	
	D143	VU264100	DIODE	1SR139-400	)
⚠	D144	VC398400	DIODE	MA185	
	D145	VU264100	DIODE	1SR139-400	)
$\triangle$	D140	VC398400	DIODE	MA185	
حنه	D140	VU264100	DIODE	1SR139-400	)
^	D147 D148	VC398400	DIODE	MA185	,
Δ		VU264100	DIODE	1SR139-400	
	D149				,
Δ	D150	VC398400	DIODE ZEND	MA185	191/
	D151	VG440100	DIODE.ZENR	MTZJ 12A	12V
	D152	VG440100	DIODE.ZENR	MTZJ 12A	12V
	D153	VG440100	DIODE. ZENR	MTZJ12A	12V
	D154	VG440100	DIODE.ZENR	MTZJ 12A	12V
	* New Pa	arts			

\*New Parts

\* New Parts

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RX-V2092

#### P.C.B. MAIN

				· · · · · · · · · · · · · · · · · · ·	1	Cala			
2	Schm Ref.	PART NO.	Desci	ription		Schm Ref.	PART NO.	Desc	ription
<b>RX-V2092</b> ♥			1						
N	D155			MTZJ12A 12V		Q139	iA101521	TR	2SA1015 Y
2	D601	iF004600		1SS133		Q140	VE198700	TR	2SA1145 0, Y
	D701		DIODE. BRG	RBV-602 LF-A		Q141A		TR	2SA1837 0, Y
Ω2	G101		TERM. GND	D3.5 TP00385			iX632620	TR	2SC4793 0, Y
	G701	VR463400	TERM. GND	D3.5 TP00385		Q142	iC224030	TR	2SC2240 GR, BL
	JK101	VJ726800	JACK.MNI			Q143	iC224030	TR	2SC2240 GR, BL
	JK102	VJ726800	JACK.MNI			Q145	VE198700	TR	2SA1145 0, Y
	L101	VC664100	COIL	0.95uH		Q146	iC224030	TR	2SC2240 GR, BL
	L102	VC664100	COIL	0.95uH		Q147	VE198800	TR	2SC2705 0, Y
	L103	GD900470	COIL	1.5uH		Q148	iA101521	TR	2SA1015 Y
	L104		COIL	1.5uH		Q149	VE198700	TR	2SA1145 0, Y
	L105	GD900470		1.5uH		Q150A	iX632610	TR	2SA1837 0, Y
		VJ696300		4P		Q150C		TR	2SC4793 0, Y
		VJ696300		4P		Q151	iC224030	TR	2SC2240 GR, BL
		VP768000		2P		Q152	iC224030	TR	2SC2240 GR, BL
		VP768000	JACK. PIN	2P		Q154	VE198700	TR	2SA1145 0, Y
	Q101	iC260320	TR	2SC2603 E, F		Q155	iC224030	TR	2SC2240 GR, BL
	Q101	VK165500	TR. DGT	DTC123JS TP		Q156	VE198800	TR	2SC2705 0, Y
	Q103	iC260320	TR	2SC2603 E, F		Q157	iA101521	TR	2SA1015 Y
	Q103		TR	2SB941 P,Q		Q158	VE198700	TR	2SA1145 0, Y
	Q104 Q105	iC1815C0	TR	2SC1815 Y		Q159A		TR	2SA1837 0, Y
		VT254500		DTC143ZS		Q159C		TR	2SC4793 0, Y
	Q107		TR. DGT				iC224030	TR	2SC2240 GR, BL
	Q108			DTC143ZS		Q160			
а. С	Q109		TR. DGT	DTC143ZS		Q161	iC224030	TR	2SC2240 GR, BL
	Q110	iA101521	TR	2SA1015 Y		Q163	VE198700	TR	2SA1145 0, Y
	Q111		TR	2SC2240 GR, BL		Q164	iC224030	TR	2SC2240 GR, BL
	Q112	iA101521	TR	2SA1015 Y	$\mathbb{A}$	Q165	iA097000	TR	2SA970 GR, BL
	Q113	iC224030	TR	2SC2240 GR, BL		‡ Q166	VY705000	TR	2SC5200 R, 0
	Q114	iA101521	TR	2SA1015 Y		Q167	iC224030	TR	2SC2240 GR, BL
	Q115	iC224030	TR	2SC2240 GR, BL	-	‡ Q168	VY705000	TR	2SC5200 R, 0
	Q116	iA101521	TR	2SA1015 Y		Q169	VY705000	TR	2SC5200 R, 0
	Q117	iC224030	TR	2SC2240 GR, BL		Q170	iC224030	TR	2SC2240 GR, BL
	Q118	iA101521	TR	2SA1015 Y		Q171	VY705000	TR	2SC5200 R, 0
	Q119	iC224030	TR	2SC2240 GR, BL	1	‡ Q172	VY705000	TR	2SC5200 R, 0
	Q120	VE198800		2SC2705 0, Y		Q173	iC224030		2SC2240 GR, BL
	Q121	iA101521	TR	2SA1015 Y	-	‡ Q174	VY705000		2SC5200 R, 0
	Q122	VE198700	TR	2SA1145 0,Y	-	‡ Q175	VY705000		2SC5200 R, 0
	Q123A	iX632610	TR	2SA1837 0,Y		Q176	iC224030		2SC2240 GR, BL
	Q123C	iX632620	TR	2SC4793 0, Y		‡ Q177	VY705000	TR	2SC5200 R, 0
•	Q124	iC224030	TR	2SC2240 GR, BL	-	‡ Q178	VY705000	TR	2SC5200 R, 0
	Q125	iC224030	TR	2SC2240 GR, BL		Q179	iC224030	TR	2SC2240 GR, BL
	Q127	VE198700	TR	2SA1145 0, Y		‡ Q180	VY705000	TR	2SC5200 R, 0
	Q128	iC224030		2SC2240 GR, BL		Q181	VC502100	TR	2SD1915 S, T
	Q129	VE198800		2SC2705 0, Y		Q182	VC502100	TR	2SD1915 S, T
	Q130		TR	2SA1015 Y	Δ	R123	VP944500	R. MTL. OXD	390Ω 1W
	Q131	VE198700	1	2SA1145 0, Y	$\overline{\mathbb{A}}$	R124		R. MTL. OXD	390Ω 1W
	Q132A			2SA1837 0, Y		R146		R. MTL. OXD	10Ω 1W
	Q132C	iX632620		2SC4793 0, Y	Δ	R149		R. MTL. OXD	2.2KΩ 1W
	Q133	iC224030		2SC2240 GR, BL		R150		R. MTL. OXD	560 Ω 1W
	Q134	iC224030		2SC2240 GR, BL		R150		R. MTL. OXD	560Ω 1W
	Q134 Q136	VE198700	1	2SA1145 0, Y		R193	VK189100		$1.2K\Omega$ $1/4W$
]	Q130		TR	2SC2240 GR, BL		R193 R194	VK188000		1.2  M 2 $1/4  W150 \Omega 1/4 \text{ W}$
	Q137		TR	2SC2705 0, Y		R214	VK189100		$1.2K\Omega$ $1/4W$
	Q100	1010000	111	4004100 0,1		* New P	I		1.01100 1/ 11

\* New Parts

\* New Parts

#### P.C.B. MAIN & OPERATION

	Schm Ref.	PART NO.	Desci	ription
	R215	VK188000	R. FUS	150Ω 1/4W
	R235	VK189100	R. FUS	1.2KΩ 1/4W
	R236	VK188000	R. FUS	$150 \Omega$ $1/4W$
	R256	VK189100	R. FUS	$1.2K\Omega$ $1/4W$
	R250 R257	VK188000	R. FUS	$150 \Omega$ $1/4W$
	R277	VK189100	R. FUS	$1.2K\Omega$ $1/4W$
	R278	VK188000	R. FUS	$1.2R_{2}$ 1/4
	R300	VR188000	R. MTL. OXD	$0.1\Omega$ 3W
	R310	VR412900	R. MIL. OXD	$0.1\Omega$ 3W
		VR412900 VR412900	R. MIL. OXD	$0.1\Omega$ 3W
	R318 R326	VR412900 VR412900	R. MIL. OXD	$0.1\Omega$ 3W
		VR412900 VR412900	R. MIL. OXD	
	R334			
Δ	R339	HL315220	R. MTL. OXD	220Ω 1₩
Δ	R340	HL315220	R. MTL. OXD	220Ω 1W
	R358	HL314330	R. MTL. OXD	33Ω 1W
Δ	R359	HL315220	R. MTL. OXD	220Ω 1W
⚠	R360	HL315220	R. MTL. OXD	220Ω 1W
	R373	HL315470	R. MTL. OXD	470Ω 1W
	RY101		RELAY	DH24D2-OT/M
	RY102		RELAY	DH24D2-OT/M
	RY104		RELAY	DH24D2-OT/M2
	RY105		RELAY	DH24D2-OT/M2
	RY601		RELAY	DH24D2-OT/M2
	SW101		SW.SLIDE	SSAA22
	SW102		SW.SLIDE	SSAA22(R)
	SW103	VI903900	SW.SLIDE	SSAA22
*	SW603	VV489000	SW. PUSH	PBS-22H01L-F14
$\triangle$	SW801	VV523800	SW.SLIDE	SL13B-022-BMC1
	TE101	VC313700	TERM. SP	8P(UCAR)
	TE101	VK506200	TERM. SP	8P(L)
	TE601	VC313700	TERM. SP	8P(UCAR)
	TE601	VK506200	TERM. SP	8P(L)
	TE603	VC313800	TERM. SP	LTS0410-2002 (UCAR)
*	TE603	VZ234500	TERM. SP	LTS0420-3003(L)
		VJ828000	PIN	IMSA-6024-03E
		BB070700	GND.MTL	
*		VY843300	HEAT. SINK	
		VK697600	SCR. BND. HD	3x10 SP ZMC2-Y
*		VY769700	P.C.B.	OPERATION (UC)
*		VY769800	P.C.B.	OPERATION (RAL)
	CB351	VM688900	CN.BS.PIN	10P
	CB352	VM859700	CN.BS.PIN	16P
	CB353	LB918020	CN.BS.PIN	2P
	CB501	VM688900	CN.BS.PIN	10P
	CB502	VK216500	CN	10P
	CB504	VB858400	CN.BS.PIN	5P
	CB505	VK217300	CN	10P
	CB901	VM929900	CN.BS.PIN	15P
	C351	VJ839200	C.EL	2.2uF 50V
	C352	UA652100	C. MYLAR	100pF 50V
Į				
	*New Pa	ยาเร		

Schm Ref.	PART NO.	Desc	ription	
	1	T		FOU
C353	UA652100	C. MYLAR	100pF	50V
C354	VJ839200	C.EL	2.2uF	50V
C355	VJ839200	C.EL	2.2uF	50V
C356	VF760000	C.EL	100uF	10V-
C357	VF760000	C.EL	100uF	10V
C358	VJ839200	C.EL	2.2uF	50V
C359	VJ839200	C.EL	2.2uF	50V
C360	VF760000	C.EL	100uF	10V
C361	VF760000	C.EL	100uF	10V
C362	VJ839200	C.EL	2.2uF	50V
C363	VJ839200	C.EL	2.2uF	50V
C364	VJ837200	C.EL	47uF	16V
C367	VF760000	C.EL	100uF	10V
C368	VF760000	C.EL	100uF	10V
C369	VJ837200	C.EL	47uF	16V
C372	VJ839200	C.EL	2.2uF	50V
C373	UM417100	C.EL	10uF	50V
C374	UA652100	C. MYLAR	100pF	50V 50V
C375	UA652100	C. MYLAR	100pF	50V
C376	UM417100	C. EL	100p1 10uF	50V
C377	UM417100	C.EL	10uF	50V 50V
	1	C. MYLAR		50V 50V
C378	UA652100	1	100pF	
C379	UA652100	C. MYLAR	100pF	50V
C380	UM417100	C.EL	10uF	50V
C381	UM417100	C.EL	10uF	50V
C382	UA652100	C. MYLAR	100pF	50V
C383	UA652100	C. MYLAR	100pF	50V
C384	UM417100	C.EL	10uF	50V
C385	VH053100	C. CE. TUBLR	0. luF	50V
C386	UM416470	C.EL	4.7uF	50V
C387	UM416470	C.EL	4.7uF	50V
C388	UM417100	C.EL	10uF	50V
C389	UM417100	C.EL	10uF	50V
C501	UM407220	C.EL	22uF	16V
C502	UM407220	C.EL	22uF	16V
C503	UA652100	C. MYLAR	100pF	50V
C504	UA652100	C. MYLAR	100pF	50V
C505	VJ839100	C.EL	luF	50V
C506	VJ837200	C.EL	47uF	16V
C507	UM215100	C.EL	0.1uF	50V
C508	UM215100	C.EL	0.1uF	50V
C509	UA655120	C. MYLAR	0.12uF	50V
C510	UA652100	C. MYLAR	100pF	50V
C511	VJ839200	C.EL	2.2uF	50V
C512	UA654330	C. MYLAR	0.033uF	50V
C513	VJ839200	C.EL	2.2uF	50V
C514	UA652100	C. MYLAR	100pF	50V
C515	UA654330	C. MYLAR	0.033uF	50V
C516	UA655120	C. MYLAR	0.12uF	50V
C517	UM215100	C.EL	0.1uF	50V
C518	UM215100	C.EL	0.1uF	50V
C519	VJ837200	C. EL	47uF	16V
C520	VJ839100	C.EL	luF	50V
			- uu	

\* New Parts

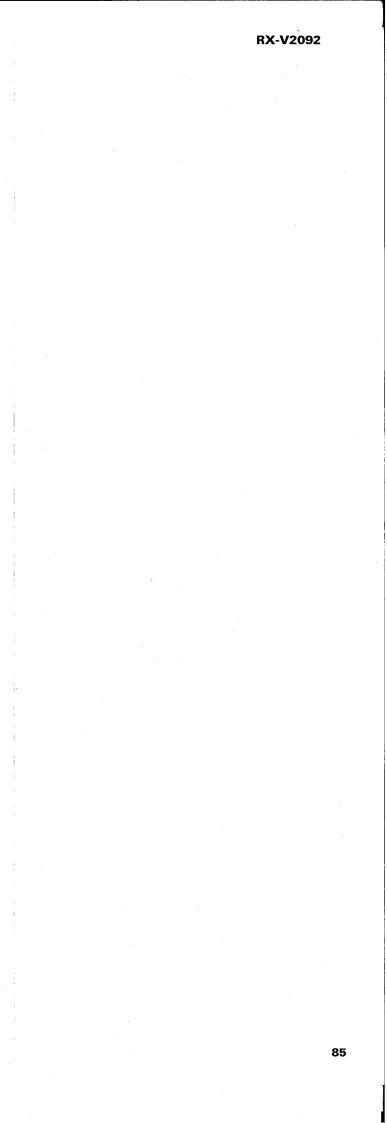
RX-V2092

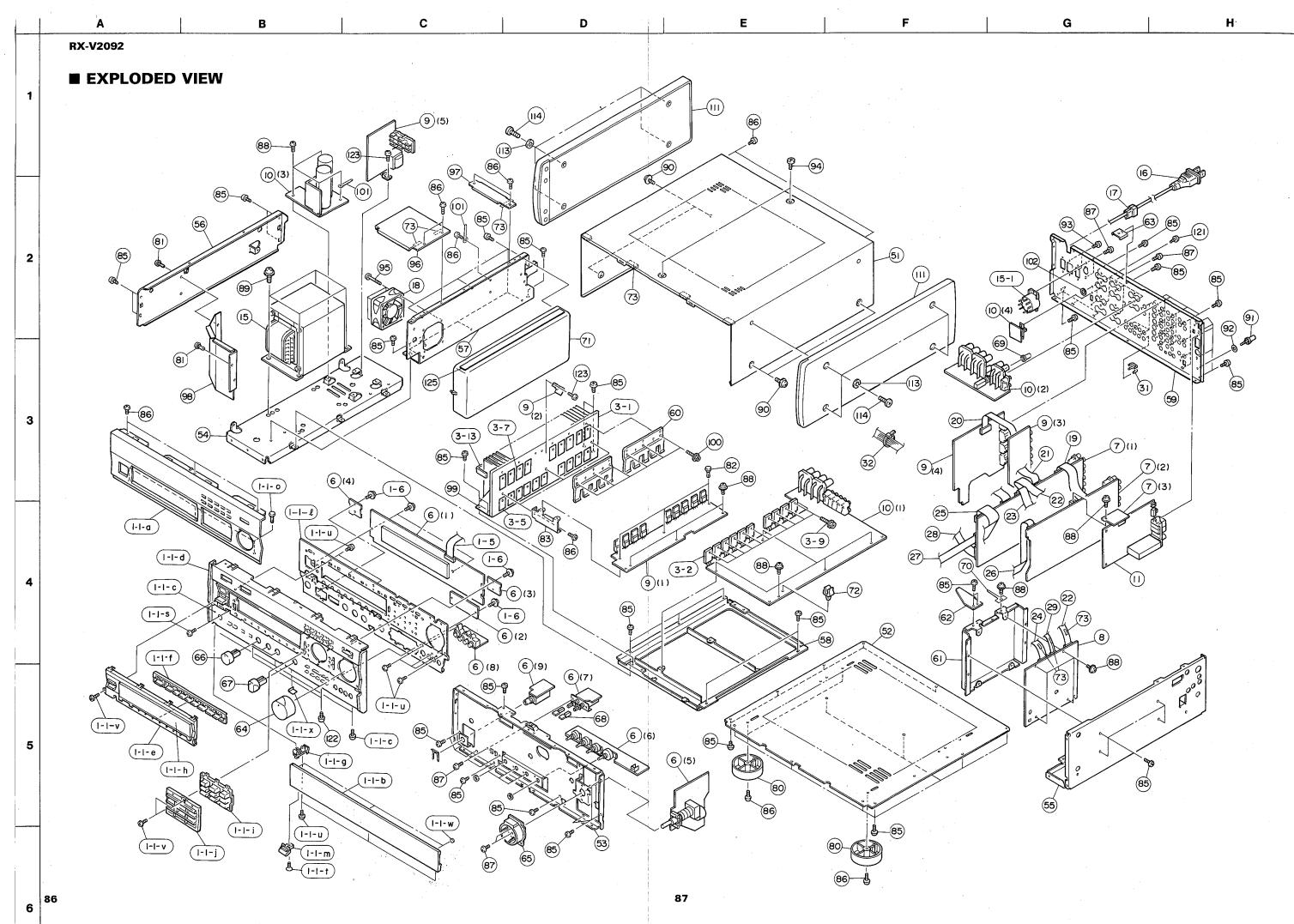
#### P.C.B. OPERATION

Г	Schm				1	ſ	Schm			· · · · · · · · · · · · · · · · · · ·
	Ref.	PART NO.	Descr	iption	ĺ		Ref.	PART NO.	Desc	ription
	C521	UM417100	C.EL	10uF 50V	l	Ī	SW908	VG392900	SW. TACT	SKHVAA
			C.EL	10uF 50V	ĺ		SW909	VG392900	SW. TACT	SKHVAA
		VH053100	C.CE.TUBLR	0. luF 50V	ĺ		SW910	VG392900	SW. TACT	SKHVAA
	C524	VF466800	C.CE.TUBLR	100pF 50V	· ·		SW911	VG392900	SW. TACT	SKHVAA
	C525	VF466800	C.CE.TUBLR	100pF 50V			SW912	VG392900	SW. TACT	SKHVAA
	C526	VH053100	C.CE.TUBLR	0.1uF 50V	ĺ		SW913	VG392900	SW. TACT	SKHVAA
	C527	UM417100	C.EL	10uF 50V	ĺ		SW914	VG392900	SW. TACT	SKHVAA
		UM417100	C.EL	10uF 50V	1			VG392900	SW. TACT	SKHVAA
	C529	VF467000	C.CE.TUBLR	1000pF 50V				VG392900	SW. TACT	SKHVAA
1	C530	VH053100	C.CE.TUBLR	0.1uF 50V				VG392900	SW.TACT	SKHVAA
	C531	VF467000	C.CE.TUBLR	1000pF 50V					SW. TACT	SKHVAA
	C532	VH053100	C.CE.TUBLR	0.1uF 50V				VG392900	SW. TACT	SKHVAA
		VH053100	C.CE.TUBLR	0.1uF 50V				VG392900	SW. TACT	SKHVAA
		VG277000	C.CE.TUBLR	33pF 50V					SW. TACT	SKHVAA
		VH053100	C.CE.TUBLR	0.1uF 50V					SW. TACT	SKHVAA
		VJ837200	C.EL	47uF 16V				VG392900	SW. TACT	SKHVAA
	C908	VH053100	C.CE.TUBLR	0.1uF 50V					SW. TACT	SKHVAA
		UJ667470	C.EL	47uF 50V					SW. TACT	SKHVAA
		UM417100	C.EL	10uF 50V				VG392900		SKHVAA
		UM417100	C.EL	10uF 50V				VG392900		SKHVAA
	C912			0.1uF 50V				VG392900		SKHVAA
	C913	VF467000		1000pF 50V				VG392900		SKHVAA
	C914			0.1uF 50V	l			VG392900		SKHVAA
		FZ005880	C.CE.ML	0.1uF 25V				VG392900		SKHVAA
	C916	UM417100	C.EL	10uF 50V				VG392900		SKHVAA
	D501	iF004600	DIODE (TENT	1SS133				VG392900		SKHVAA SKHVAA
	D901	VG438300		MTZJ6.8B 6.8V				VG392900 VG392900		SKHVAA
	D902		LED(re)	SLR-325VCT31(RAL) MTZJ30D 30V				VG392900 VG392900	SW. TACT	SKHVAA
	D903	VG443500	DIODE. ZENR TERM. GND	MTZJ30D 30V D3.5 TP00385				VG392900 VG392900	SW. TACT	SKHVAA
	G901 IC351	VR463400 XB247301	IC	uPC4570HA					SW. TACT	SKHVAA
		XB247301 XB247301	IC	uPC4570HA						SKHVAA
		XB247301 XB247301	IC	uPC4570HA						SKHVAA
			IC	NJM2068LD				VG392900		SKHVAA
		XB247301		uPC4570HA				VG392900		SKHVAA
	10002	XR188A00		LC75710NE FLD				VU591000		GP1U271X
		VT034300		1P		*		VV261900		15-BT-28GK
			JACK. PHONE	HLJ5307		*		VY689400		Y100KΩ
		VS868400		3P				VP741800		B20KQ
		VP602400		2SC4038 Q, R, S, E				VP741900		G25KΩ
		VP602400		2SC4038 Q, R, S, E				VP742000		MN100K Ω
		VD678700		DTC114ES(RAL)				VJ828000		IMSA-6024-03E
		VP872600		2SA1708 S, T				VS588900		
		VM640200		RY12W-OH-K-DC12V		*		VY830700		FL-T7.5
		VY667600		SPUN22 2				BB071360	SCR. TERM	8.3x13
				SRRM1A	·			· ·		
		VG392900		SKHVAA						
	SW902	VG392900	SW. TACT	SKHVAA						
		VG392900		SKHVAA						
	SW904	VG392900	SW. TACT	SKHVAA			ļ			
· ·		VG392900		SKHVAA					1	
	SMOUC	VG392900	SW. TACT	SKHVAA			l .	l		
							1	1		
		VG392900		SKHVAA	]					

#### ■ CHIP RESISTORS & FLAME PROOF CARBON RESISTOR

Schm Ref.	PART NO.	Desc	ription			Schm Ref.	PART NO.	Des	cription	
	RD250000	R. CAR. CHP	0Ω	1/10W			HV453100	R.CAR.FP	1Ω	1/4W
	RD254220	R. CAR. CHP	$22 \Omega$	1/10W			HV453220	R. CAR. FP	$2.2\Omega$	1/4W
	RD254750	R. CAR. CHP	75Ω	1/10W	$\land$		HV453470	R. CAR. FP	$4.7\Omega$	1/4W
		R. CAR. CHP	82 Ω	1/10W			HV453680	R.CAR.FP	6.8Ω	1/4W
		R. CAR. CHP	100 Ω	1/10W			HV456820	R. CAR. FP	8.2Ω	1/4W
								R. CAR. FP	10 Ω	1/4W
		R. CAR. CHP	150 Ω	1/10W			HV454100			
		R. CAR. CHP	200 Ω	1/10W			HV454120	R.CAR.FP	12Ω	1∕4₩
		R. CAR. CHP	220 Ω	1/10W			HV454330	R. CAR. FP	33 Ω	1/4W
		R. CAR. CHP	330 <b>Ω</b>	1/10W				R.CAR.FP	$47 \Omega$	1/4W
	RD255430	R. CAR. CHP	$430\Omega$	1/10W	≙		HV455100	R.CAR.FP	100 Ω	1/4W
	RD255470	R. CAR. CHP	$470 \Omega$	1/10W			HV455120	R. CAR. FP	120 Ω	1/4W
	RD255620	R. CAR. CHP	620 Ω	1/10W			HV455150	R. CAR. FP	150 Ω	1/4W
		R. CAR. CHP	680 Ω	1/10W			HV455220		$220 \Omega$	1/4W
		R. CAR. CHP	820 Ω	1/10W	$\square$		HV455330		330 Ω	1/4W
		R. CAR. CHP	1KΩ	1/10W			HV455470		470 Ω	1/4W
									560 Ω	
		R. CAR. CHP	1.2KΩ	1/10W			HV455560			1∕4₩
		R. CAR. CHP	1.3KΩ	1/10W			HV455680		680 Ω	1/4W
		R. CAR. CHP	1.5KΩ	1/10W			HV456150		1.5KΩ	1/4W
		R. CAR. CHP	2.2KΩ	1/10W			HV456220		2.2KΩ	1/4W
	RD256240	R. CAR. CHP	2.4KΩ	1/10W			HV456330	R.CAR.FP	3.3KΩ	1/4W
	RD256270	R. CAR. CHP	2.7KΩ	1/10W			HV456470	R.CAR.FP	4.7KΩ	1/4W
	RD256330	R. CAR, CHP	3.3KΩ	1/10W			HV456680	R. CAR. FP	6.8KΩ	1/4W
		R. CAR. CHP	3.6KΩ	1/10W						
		R. CAR. CHP	3.9KΩ	1/10W						
		R. CAR, CHP	4.7KΩ	1/10W						
		R. CAR. CHP	5.6KΩ	1/10W						
		R. CAR. CHP	6.8KΩ	1/10W						
		R. CAR. CHP	8.2KΩ	1/10W						
		R. CAR. CHP	9.1KΩ	1/10W						
		R. CAR. CHP	10KΩ	1/10W						
[	RD257120	R. CAR. CHP	12K Ω	1/10W						
	RD257130	R. CAR. CHP	13KΩ	1/10W						
	RD257150	R. CAR. CHP	15KΩ	1/10W						
		R. CAR, CHP	18KΩ	1/10W						
		R. CAR. CHP	22KΩ	1/10₩						
		R. CAR. CHP	$27K\Omega$	1/10W						
		R. CAR. CHP								
1			33KΩ	1/10W						
		R. CAR. CHP	39KΩ	1/10W						
		R. CAR. CHP	47KΩ	1/10W						
		R. CAR, CHP	56KΩ	1/10W					·	
	RD257680	R. CAR. CHP	68KΩ	1/10W						
	RD257750	R. CAR. CHP	75KΩ	1/10W						
1		R. CAR. CHP	91KΩ	1/10W						
		R. CAR. CHP	100KΩ	1/10₩						
		R. CAR. CHP	150KΩ	1/10W						
		R. CAR. CHP	330KΩ	1/10W	1					
		R. CAR. CHP	470KΩ	1/10W						
		R. CAR. CHP	680KΩ	1/10₩						
	RD259100	R. CAR. CHP	1MΩ	1/10W						
	RD259470	R.CAR.CHP	4.7MΩ	1/10W						
			1		1		1	1	1	
			-							
			-							





#### MECHANICAL PARTS

	Ref. No.	PART NO.	Descriptio	on	Remarks	Markets
*[	1-1-a	VV692600	FRONT PANEL	· · · · · · · · · · · · · · · · · · ·	BL ·	
*			FRONT PANEL	· *	TI	
*			PANEL, LID		BL	
			PANEL, LID		TI	
*		VV693100			BL	
*		VY732700			TI	
*			SUB PANEL CASE		BL	
*			SUB PANEL CASE		TI	
*			SUB PANEL		BL	
*			SUB PANEL		TI	
*		VV849500		Т	BL	
*		VV849000 VV849700		T	TI	
*					BL	
			HINGE, LID			
*			HINGE, LID		TI	(UC)
*		VV695200				
*		VY680600	-		n	(RAL)
*		VV850700		I	BL	
*		VV850800		I	TI	
*		VV851000			BL	
*		VV851200			TI	1
*	1-1-1	VV850600	SUPPORT	FRONT		
	1-1-m	VY980700	POST, LID			
			PLASTIC RIVET	No. 1027		
			BIND HEAD BONDING B-T. SCREW			
			FLAT HEAD SCREW	3x6 MFZN2-BL		
			BIND HEAD B-TITE SCREW	3x8 ZMC2-BL		
		EP600140		3x10 MFZN2-BL		
k		VY822200			BL	
*		VY822400			TI	
		VZ177700		UC-3E0690		
*	1-1-5	VY839000		15P 300mm		
	1-6	EK930010		3x8-8 FCRM3-BL		
*				40BS300-L110		
	3-1	VV693500				
#	3-2	VY705000	TRANSISTOR	2SC5200 R, 0		
	3-5	VK196000		22x29		
	3-7	VK195900	SHEET	19x24		
	3-9	VK173200	SCREW, TRANSISTOR	3x15 SP FCM3		
	3–13	VU195800	DAMPER, FIN			
*	6	VY769700	P.C.B. ASS'Y	OPERATION		(UC)
*	6		P.C.B. ASS'Y	OPERATION		(RAL)
*	7		P.C.B. ASS'Y	FUNCTION		(UC)
*	7		P.C.B. ASS'Y	FUNCTION		(R)
*	7		P.C.B. ASS'Y	FUNCTION		(AL)
*	8		P.C.B. ASS'Y	DSP		(UC)
ľ	8		P.C.B. ASS'Y	DSP		(RAL)
*	9		P.C.B. ASS'Y	VIDEO		(UC)
*	9		P.C.B. ASS'Y	VIDEO		(R)
*	9 9		P.C.B. ASS'Y	VIDEO		(A)
*	9 9		P.C.B. ASS'Y	VIDEO		(L)
*				MAIN		(UCA)
*	10		P.C.B. ASS'Y			(0CA) (R)
*	10		P.C.B. ASS'Y	MAIN		
*	10		P.C.B. ASS'Y	MAIN		(L)
1	11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P.C.B. ASS'Y	TUNER	·	(UC)

	Ref. No.	PART NO.	Descriptio
	11		P.C.B. ASS'Y
	11		P.C.B. ASS'Y
^*	15	XT312A00	POWER TRANSFORMER
*	15	XT313A00	POWER TRANSFORMER
<u>*</u>	15	XT315A00	POWER TRANSFORMER
*	15	XT316B00	POWER TRANSFORMER
*	15	VY770900	POWER TRANSFORMER ASS'Y
*	15	XT314A00	POWER TRANSFORMER
$\overline{\mathbb{A}}$	15-1	Vi449800	VOLTAGE SELECTOR
	16	VP418300	POWER CORD ASS'Y
⚠	16	VQ458400	POWER CORD ASS'Y
$\triangle$	16	VS759300	POWER CORD ASS'Y
$\land$	16	VU122900	POWER CORD ASS'Y
	17	VN158600	CORD STOPPER
	18	VV272500	DC FAN MOTOR
*	19	VY839400	CONNECTOR, FLAT CABLE
	20	VQ157200	CONNECTOR, FLAT CABLE
*	21	VY838800	CONNECTOR, FLAT CABLE
*	22	VY838900	CONNECTOR, FLAT CABLE
*	23	VY838700	CONNECTOR, FLAT CABLE
*	24	VY839300	CONNECTOR, FLAT CABLE
*	25	VY839100	CONNECTOR, FLAT CABLE
*	26	VY838600	CONNECTOR, FLAT CABLE
*	27	VY838500	CONNECTOR, FLAT CABLE
*	28	VY839200	CONNECTOR, FLAT CABLE
	29	VY952000	CONNECTOR, FLAT CABLE
	31	VQ194100	SHORT PLUG
	32	CB069250	BINDING TIE
*	51	VV690300	TOP COVER
*	51	VV690500	TOP COVER
*	52	VV690600	BOTTOM COVER
*	53	VV690700	1 · · ·
*	54	VV690800	
*	55	VV690900	FRAME
*	56	VV691000	FRAME
*	57	VV691100	FRAME
*	58	VV691200	FRAME
*	59	VV691300	REAR PANEL
*	59	VV691400	REAR PANEL
*	59	VV691500	REAR PANEL
*	59	VV691600	REAR PANEL
*	59	VV691700	REAR PANEL
*	60	VV826100	SUPPORT
*	61	VV306300	SHIELD CASE
*	62	VV850500	SUPPORT
	63	VV306200	SSUPPORT, TOP
	64	VV268600	KNOB, LED
	64	VV268700	KNOB, LED
	65	VV149500	ESCUTCHEON, VOL
	65	W149600	ESCUTCHEON, VOL
	66	VS757200	KNOB, P
	66 67	VS757300	KNOB, P
	67	VT275100	KNOB
	*New Pa	arts	

88

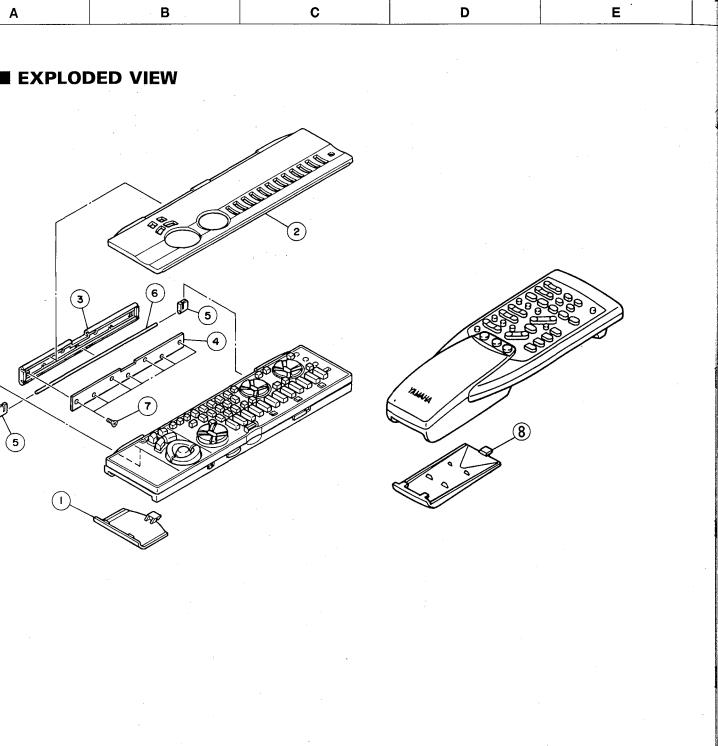
io	h	Remarks	Markets
	TUNER TUNER TUNER ESE-37284-F 2410ML-05W-B20-L00 27P 120mm 16P 60mm 12P 80mm 14P 120mm 11p 160mm 20P 120mm 16P 120mm 10P 220mm 10P 200mm 19P 100mm 5P 180mm CNT31-0 BK-1	BL TI	(R)         (AL)         (U)         (C)         (A)         (L)         (R)         (R)         (IL)         (V)         (V)         (R)         (IL)         (UC)
	L R SL SF C D/PCB D40 D40 D12 D12 D12 D12R	BL TI BL TI BL TI BL	(U) (C) (R) (A) (L)

ef. o.	PART NO.	Descriptio	m	Remarks	Markets	
7	VT275200	KNOB	D12R	TI		
8	W123500	BUTTON, 3/8		BL		
8	W123600	BUTTON, 3/8		TI		
9	VS048300		D7			
0	VN806000		· ·		(UC)	
1	W713600		F		(00)	2
2		PCB HOLDER	A-1 3R48			-
3	VE222600		<u>M-1 00000</u>			
0	VS025000		D60xH21			
1		PLASTIC RIVET	No. 1027			
2		PLASTIC RIVET				
			No. 1781			
3	VV692400		H/PCB			
5		BIND HEAD BONDING B-T. SCREW		V2-BL		
6		BIND HEAD B-TITE SCREW		2-BL		
7		BIND HEAD SCREW		13-BL		3
8		PW HEAD B-TITE SCREW		13-BL		•
9		CUP S-TITE SCREW	5x10-12 ZMC2			
0	EK365090	PW HEAD S-TITE SCREW	4x8-10 FCR	13-BL		
1	AA627310	GROUND TERMINAL				
2		PLAIN WASHER	3.6x10x0.8 FN	13–3G		
3		BIND HEAD B-TITE SCREW	3x10 ZMC2			
4		SPECIAL SCREW S-TITE		13-BL BL		
1		SPECIAL SCREW S-TITE	4x8-10 FNM			
5		BIND HEAD B-TITE SCREW		V2-BL		
5 5		SUPPORT, FAN COVER				4
7	VY980000		R			-
3	1	PLATE, FAN COVER	K			
) )		PLATE, HEATSINK	u			
9 )0		SCREW, TRANSISTOR	H 3x15 SP FCM3	<b>,</b>		
)1		BINDING TIE	S-75B			
)2	VZ180200		DATD			
11		SIDE PANEL	PAIR	(0 D)		
13		SPRING WASHER		13-BL		
14		FLAT FILLISTER HEAD SCREW		13–BR		5
21		BONDING HEAD TAPPING SCREW		1133		
22		BW HEAD TAPPING SCREW	3x10			
23		BIND HEAD B-TITE SCREW	3x10 SP ZMC2	-Y		
25	VZ012900	CUSHION, FAN				
		ACCESSORIES				
	VV627100	REMOTE CONTROL TRANSMITTER	RRC4000-5401R			
	VV627300	REMOTE CONTROL TRANSMITTER				
		LABEL, REMOTE CONTROL				
		LOOP ANTENNA	AM			6
		ANTENNA, FM	1.4m			
		ANTENNA ADAPTER	~ / 100		(UC)	
	VH214900		SUM-3, AA, R06			
	11/2112/00	1/1 11 11/11	50m-0, rvs, 100			
						·····
			· ·			
			• •			
						7

**EXPLODED VIEW** 

1

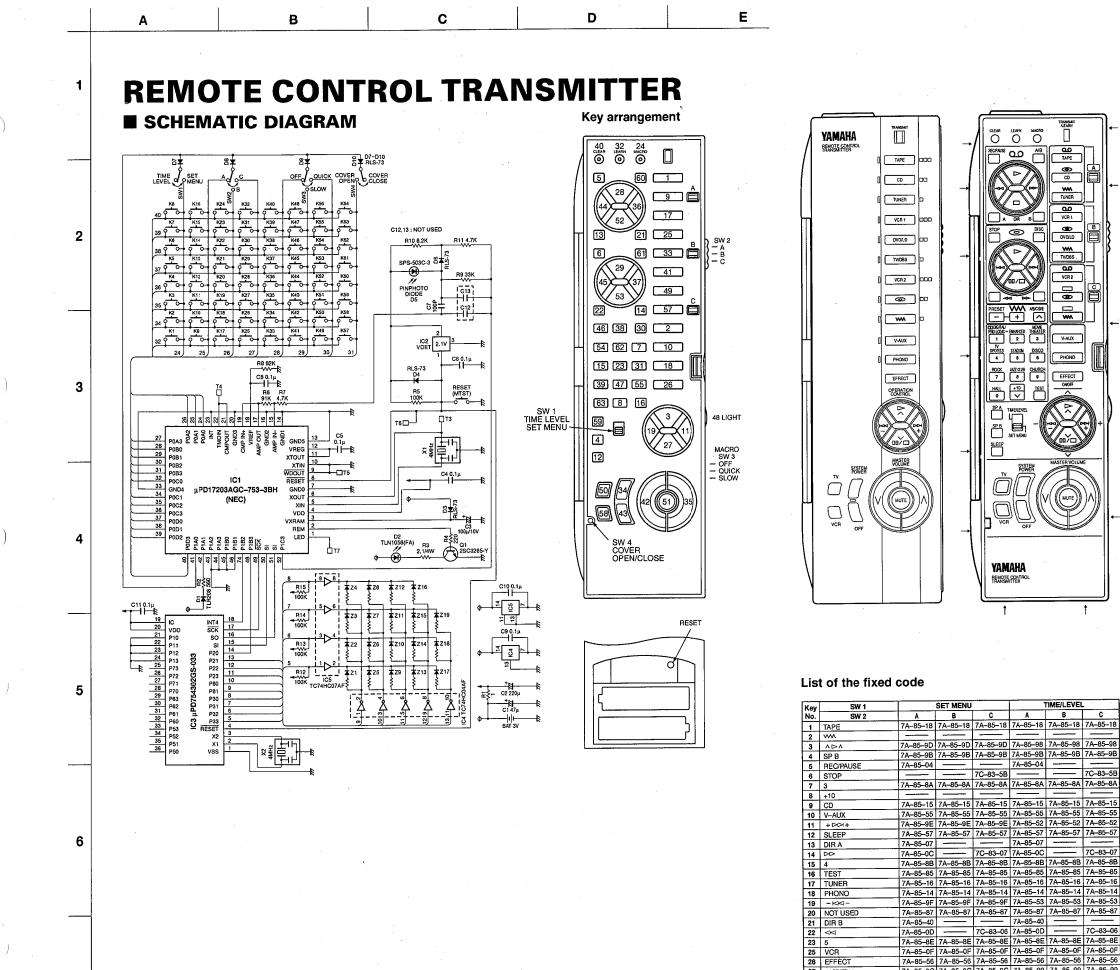
91



	Ref. No.	PART NO.	Descriptio	on	Remarks	Markets			
*		VV627100	REMOTE CONTROL TRANSMITTER	RRC4000-5401R	RRC40005401R				
*	1	CX680040	COVER, BATTERY		103RRC11101R				
*	2	CX680050	LID		103RRC11201R				
*	3	CX680060	BRACKET	А	503RRC00401R				
*	4	CX680070	BRACKET	В	503RRC00501R				
*	5	CX680080	GUIDE PIN		522RRC00101R				
*	6	CX680090	PIN		524RRC00101R				
*	7	EX603910	SCREW	M1.7x13.5	ABB1703321001				
*			REMOTE CONTROL TRANSMITTER						
	8	CX679050	LID						
:	* New Parts								

90

С



7

25 VCH 26 EFFECT 27 V 00/⊂⊐ V 28 ⊳

29 ⊳ 30 A/B/C/D/E

31 6

92

**RX-V2092** 



TAPE

<u>@</u>

TUNER

CCR 1

• TV/DBS ,

CO VCR 2

ww ]

V-AUX

PHONO

MUTE

t

TIME/LEVEL

 TA-85-9C
 TA-85-9C

NACRO O

<sup>₩</sup>B

DISC

#### **MACRO** transmission

Transmission code of initial setting shows under the below. (key No.) Each transmission code is the fixed or learning code.

	COVER				CLOSE					
	SW 1				on't car					
Key	SW 2	Don't care.								
No.	SW 3			QUIC	K or S	LOW				
	MACRO order	1	2	3	4	5	6	7		
1	TAPE	K34	K1	K28-A	-	-		-		
2	~~~	K34	К2	-	-	1	-	-		
9	CD	K34	K9	K29-A	1			-		
10	V-AUX	K34	K10	-	1	-	-	-		
17	TUNER	K34	K17	-	1	-	_	-		
18	PHONO	K34	K18	-	-	-	_	-		
25	VCR	K34	K25	K28-B						
33	DVD/LD	K34	K33	K29-B		_	_	-		
34	SYSTEM POWER	K34	K50	K58	-	_	-	-		
41	TV/DBS	K34	K41	-	-	-	_	-		
43	SYSTEM POWER OFF	K43	-	-		_	-	-		
49	VCR 2	K34	K49	K28-A	-	-				
57	0	K34	K57	K29-B	-	-				

Detail : K × × – 〇 Key No. The position of SW2

Kev	SW 1	·······	SET MENU		1	IME/LEVEL	•
No.	SW 2	A	В	C	A	В	C
33	DVD/LD	7A85-17	7A8517	7A-85-17	7A-85-17	7A8517	7A-85-17
34	SYSTEM POWER	7A-85-1D	7A-85-1D	7A851D	7A-85-1D	7A851D	7A-85-1D
35	MASTER VOL +	7A-85-1A	7A851A	7A-85-1A	7A-85-1A	7A-85-1A	7A851A
36		7A-85-02			7A-85-02		
37	22	7A-85-0A		7C-83-03	7A-85-0A		7C-83-03
38	PRESET +	7A-85-10			7A8510		
39	7	7A-85-8C	7A-85-8C	7A-85-8C	7A-85-8C	7A-85-8C	7A-85-8C
41	TV/DBS	7A8554	7A8554	7A-85-54	7A-85-54	7A-85-54	7A-8554
42	MASTER VOL -	7A851B	7A851B	7A-85-1B	7A-85-1B	7A-85-1B	7A-85-1B
43	SYSTEM POWER OFF	7A-85-1E	7A-85-1E	7A-85-1E	7A-85-1E	7A-85-1E	7A-85-1E
44	A	7A-85-01			7A-85-01		
45	× ×	7A-85-0B		7C-83-02	7A850B		7C8302
46	PRESET	7A-85-11			7A-85-11		
47	8	7A858D	7A-85-8D	7A-85-8D	7A-85-8D	7A-85-8D	
49	VTR2	7A8513	7A-85-13	7A-85-13	7A-85-13	7A-85-13	7A-85-13
50	SYSTEM POWER TV						
51	MUTE	7A-85-1C	7A-85-1C	7A-85-1C		7A-85-1C	7A-85-1C
52		7A-85-03			7A-85-03		
53	00/□	7A-85-09		7C-83-04			7C-83-04
54	1	7A-85-88	7A-85-88	7A-85-88			7A-85-88
55	9	7A-85-90	7A-85-90	7A8590	7A-85-90	7A-85-90	7A-85-90
57	0						
58	SYSTEM POWER VCR						
59	SP A		7A-85-9A	7A-85-9A		7A-85-9A	7A-85-9A
60	A/B	7A-85-06			7A8506		
61	DISC	7A854F			7A-85-4F		
62	2	7A8589	7A-85-89	7A-85-89	7A-85-89	7A-85-89	7A-85-89
63	0	7A-85-91	7A-85-91	7A8591	7A8591	7A-85-91	7A-85-91

1

2

3

4

5

6

7

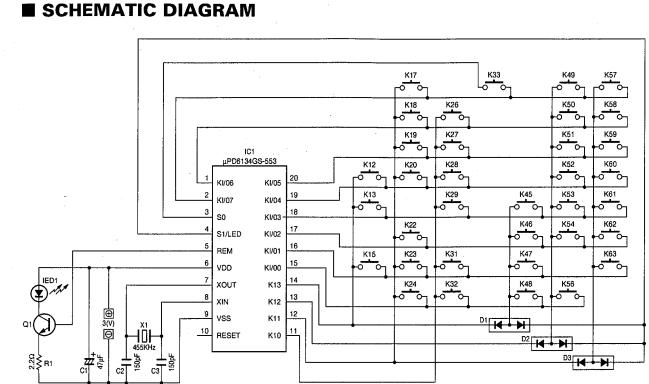
95

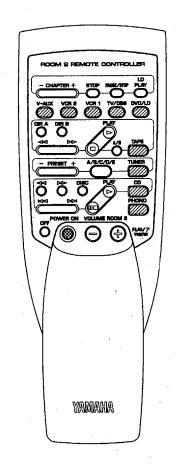
#### С

#### **RX-V2092**

В

# **REMOTE CONTROL TRANSMITTER**





#### Lighting point COVER

SW 1

SW 3

SW 2

Z8

(TAPE) Z1,Z4 Z1,Z7 Z1,Z10

(CD) Z2,Z5 Z2,Z8 Z2,Z11

(TAPE) Z1,Z4 Z1,Z7 Z1,Z10

Z2,Z5 Z2,Z8 Z2,Z11

Z3,Z6 Z3,Z9 Z3,Z12 
 Z10
 Z10
 Z1,Z10

 Z1,Z4
 Z1,Z7
 Z1,Z10

Z2,Z5 Z2,Z8 Z2,Z11

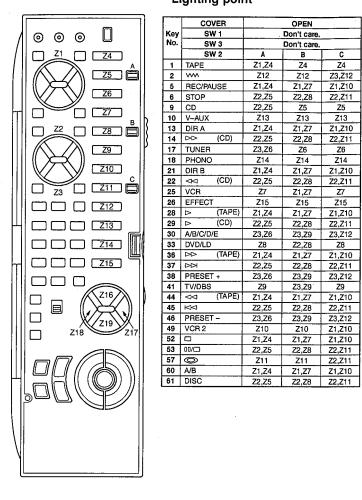
Z11 Z11 Z2,Z11 
 Z1,Z4
 Z1,Z7
 Z1,Z10

 Z2,Z5
 Z2,Z8
 Z2,Z11

(CD) Z2,Z5

(CD) <u>Z2,Z5</u>

Z2,Z8 Z8



		OPEN			COVER	CLOSE
		Don't care.		Key	SW 1	Don't care.
		Don't care.		No.	SW 3	Don't care.
	A	8	C		SW 2	Don't care.
	Z1,Z4	Z4	Z4		TAPE	Z4: (), Z16: (), Z17: (), Z18: (), Z19: ()
	Z12	Z12	Z3,Z12	2	~~~	Z12 : O, Z16 : K22-C, Z17 : K30-C, Z18 : K33-C, Z19 : K8-C
	Z1,Z4	Z1,Z7	Z1,Z10	9	CD	Z5 : (), Z16 : (), Z17 : (), Z18 : (), Z19 : ()
	Z2,Z5	Z2,Z8	Z2,Z11	10	V-AUX	Z13:O
	Z2,Z5	Z5	Z5	17	TUNER	Z6: (), Z16: (), Z17: (), Z18: ()
	Z13	Z13	Z13	18	PHONO	Z14:O
	Z1,Z4	Z1,Z7	Z1,Z10	25	VCR	Z7 : O, Z16 : K28-B, Z17 : K36-B, Z18 : K44-B, Z19 : K52-B
	Z2,Z5	Z2,Z8	Z2,Z11	26	EFFECT	Z15:O
	Z3,Z6	Z6	Z6	33	DVD/LD	Z8 : O, Z16 : K29-B, Z17 : K37-B, Z18 : K45-B, Z19 : K53-B
	Z14	Z14	Z14	41	TV/DBS	Z9 : O, Z16 : K22-B, Z17 : K30-B, Z18 : K38-B, Z19 : K8-B
	Z1,Z4	Z1,Z7	Z1,Z10	49	VCR 2	Z10 : O, Z16 : K28-C, Z17 : K36-C, Z18 : K44-C, Z19 : K52-C
	Z2,Z5	Z2,Z8	Z2,Z11	57	0	Z11 : O, Z16 : O, Z17 : O, Z18 : O, Z19 : O
	Z7	Z1,Z7	Z7	3	$\land \triangleright \land$	Same as the case of pushing the mode key of current mode.
	Z15	Z15	Z15	11	+ 🖂 +	(In case of having set the mode TAPE, the lighting is same
E)	Z1,Z4	Z1,Z7	Z1,Z10	19	- 🗠 -	as the case of pushing TAPE key.)
	Z2,Z5	Z2,Z8	Z2,Z11	27	× 00/□ ×	
	Z3,Z6	Z3,Z9	Z3,Z12	D-4-11	. ^	Liebline On
_	70			Detail	:0	- Lighting On.

: O------ Lighting On. ××-Y ------ Lighting on if the key, that is key No.××and SW2-Y, has been learned.

#### 94

Key No.	E	HE	HEX	
	Function	CUSTOM	DATA	
12	DIR A	7A	07	
13	DIR B	7A	40	
14				
15	PLAY ⊳ (TAPE	) 7A	00	
17	⊲⊲ (TAPE	) 7A	01	
18	⊳⊳ (TAPE	) 7A	02	
19	🗆 (TAPE	) 7A	03	
20	A/B	7A	06	
22	PRESET -	7A	11	
23	PRESET +	7A	10	
24	A/B/C/D/E	7A	12	
26		7A	0D	
27	⊳⊳ (CD)	7A	0C	
28	DISC	7A	4F	
29	PLAY ⊳ (CD)	7A	08	
31	× ₽	7A	0B	
32	<b>⊳</b> ⊳	7A	0A	
33	00/==	7A	09	
34	·			
45	CHAPTER -	7C	02	
46	CHAPTER +	70	03	
47	STOP	7C	5B	
48	PAUSE/STOP	7C	04	
49	LD PLAY	7C	05	
50	V–AUX	7A	D8	
51	VCR 2	7A	D7	
52	VCR 1	7A	D6	
53	TV/DBS	7A	D9	
54	DVD/LD	7A	D5	
55			—	
56	TAPE	7A	D3	
57	TUNER	7A	D2	
58	CD	7A	D1	
59	PHONO	7A	D0	
60	POWER OFF	7A	1E	
61	POWER ON	7A	1D	
62	VOLUME ROOM2 -	7A	DB	
63	VOLUME ROOM2 +	7A	DA	
64				

E

D

## **Parts List for Carbon Resistors**

Value	1/4W Type Part No.		Value		1/6W Type Part No
1.0 Ω	нјз5 3100	HF85 3100	10 kΩ	HF45 7100	HF45 7100
1.8 Ω	нјз5 3180	*	11 kΩ	HF45 7110	HF45 7110
2.2 Ω	нјз5 3220	HF85 3220	12 kΩ	нј35 7120	HF85 7120
3.3 Ω	нјз5 3330	HF85 3330	13 kΩ	HF45 7130	HF45 7130
4.7 Ω	нјз5 3470	HF85 3470	15 kΩ	HF45 7150	HF45 7150
5.6 Ω	нјз5 3560	HF85 3560	18 kΩ	HF45 7180	HF45 7180
10 Ω	HF45 4100	HF45 4100	22 kΩ	HF45 7220	HF45 7220
15 Ω	нјз5 4150	HF85 4150	24 kΩ	HF45 7240	HF45 7240
22 Ω	HF45 4220	HF45 4220	27 kΩ	нј35 7270	HF85 7270
27 Ω	нјз5 4270	HF85 4270	30 kΩ	HF45 7300	HF45 7300
33 Ω	HF45 4330	HF45 4330	33 kΩ	HF45 7330	HF45 7330
39 Ω	нјз5 4470	HF85 4390	36 kΩ	HF45 7360	HF45 7360
47 Ω	HF45 4470	HF45 4470	39 kΩ	HF45 7390	HF45 7390
56 Ω	HF45 4560	HF45 4560	47 kΩ	HF45 7470	HF45 7470
68 Ω	HF45 4680	HF45 4680	51 kΩ	HF45 7510	HF45 7510
75 Ω	HF45 4750	HF45 4750	56 kΩ	HF45 7560	HF45 7560
82 Ω	HF45 4820	HF45 4820	62 kΩ	HF45 7620	HF45 7620
91 Ω	HF45 4910	HF45 4910	68 kΩ	HF45 7680	HF45 7680
100 Ω	HF45 5100	HF45 5100	82 kΩ	HF45 7820	HF45 7820
110 Ω	нјз5 5110	HF85 5110	91 kΩ	HF45 7910	HF45 7910
120 Ω	HF45 5120	HF45 5120	100 kΩ	HF45 8100	HF45 8100
150 Ω	HF45 5150	HF45 5150	110 kΩ	HF45 8110	HF45 8110
160 Ω	нјз5 5160	*	120 kΩ	HF45 8120	HF45 8120
180 Ω	HF45 5180	HF45 5180	150 kΩ	HF45 8150	HF45 8150
200 Ω	HF45 5200	HF45 5200	180 kΩ	HF45 8180	HF45 8180
220 Ω	HF45 5220	HF45 5220	220 kΩ	нјз5 8220	HF85 8220
270 Ω	HF45 5270	HF45 5270	270 kΩ	HF45 8270	HF45 8270
330 Ω	HF45 5330	HF45 5330	300 kΩ	HF45 8300	HF45 8300
390 Ω	HF45 5390	HF45 5390	330 kΩ	HF45 8330	HF45 8330
430 Ω	HF45 5430	HF45 5430	390 kΩ	нјз5 8390	HF85 8390
470 Ω	HF45 5470	HF45 5470	470 kΩ	HF45 8470	HF45 8470
510 Ω	HF45 5510	HF45 5510	560 kΩ	нјз5 8560	HF85 8560
560 Ω	HF45 5560	HF45 5560	680 kΩ	нјз5 8680	HF85 8680
680 Ω	HF45 5680	HF45 5680	820 kΩ	нјз5 8820	HF85 8820
820 Ω	HF45 5820	HF45 5820	1.0 MΩ	HF45 9100	HF45 9100
910 Ω	HF45 5910	HF45 5910	1.2 MΩ	нјз5 9120	*
1.0 kΩ	HF45 6100	HF45 6100	1.5 MΩ	нјз5 9150	HF85 9150
1.2 kΩ	HF45 6120	HF45 6120	1.8 MΩ	нјз5 9180	HF85 9180
1.5 kΩ	HF45 6150	HF45 6150	2.2 MΩ	нјз5 9220	HF85 9220
1.8 kΩ	HF45 6180	HF45 6180	3.3 MΩ	нјз5 9330	HF85 9330
2.0 kΩ	нј35 6200	HF85 6200	3.9 MΩ	нјз5 9390	*
2.2 kΩ	HF45 6220	HF45 6220	4.7 MΩ	нј35 9470	HF85 9470
2.4 kΩ	НЈ35 6240	HF85 6240			
2.7 kΩ	HF45 6270	HF45 6270			
3.0 kΩ	HF45 6300	HF45 6300			
3.3 kΩ	HF45 6330	HF45 6330			
3.6 kΩ	НЈ35 6360	HF85 6360		1/4W Type	
3.9 kΩ	HF45 6390	HF45 6390		н, 35 0000	<b>1/6W Type</b> HF85 〇〇〇〇
4.7 kΩ	HF45 6470	HF45 6470		10mm →	
5.1 kΩ	HF45 6510	HF45 6510			$\leftarrow$ 5mm $\rightarrow$
5.6 kΩ	HF45 6560	HF45 6560			je men j
6.8 kΩ	HF45 6680	HF45 6680			U U
8.2 kΩ	HF45 6820	HF45 6820			
9.1 kΩ	HF45 6910	HF45 6910			······································

**RX-V2092** 

# YAMAHA