

AV RECEIVER/AV AMPLIFIER RX-V565/HTR-6250/ AX-V565 SERVICE MANUAL

RX-V565/HTR-6250/
AX-V565

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.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product 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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YAMAHA

YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan
animate '09.03

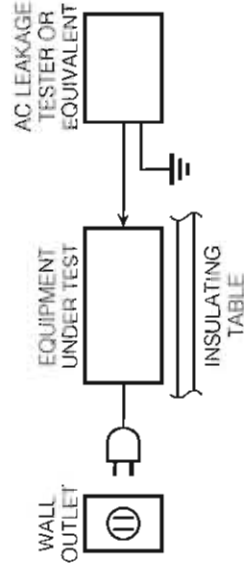
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■ TO SERVICE PERSONNEL

1. Critical Components Information
Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

2. 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 ohms shunted by 0.15 μ F.



- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.



For U model
"CAUTION"

"F3701: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 6A, 125V FUSE."

For C model

CAUTION

F3701: REPLACE WITH SAME TYPE 6A, 125V FUSE.

ATTENTION

F3701: UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE 6A, 125V.

WARNING: CHEMICAL CONTENT NOTICE!

This product contains chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

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

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.

About lead free solder / 無鉛ハンダについて

All of the P.C.B.s installed in this unit and solder joints are soldered using the lead free solder.

Among some types of lead free solder currently available, it is recommended to use one of the following types for the repair work.

- Sn + Ag + Cu (tin + silver + copper)
- Sn + Cu (tin + copper)
- Sn + Zn + Bi (tin + zinc + bismuth)

Caution:

As the melting point temperature of the lead free solder is about 30°C to 40°C (50°F to 70°F) higher than that of the lead solder, be sure to use a soldering iron suitable to each solder.

本機に搭載されているすべての基板およびハンダ付けによる接合部は無鉛ハンダでハンダ付けされています。

無鉛ハンダにはいくつかの種類がありますが、修理時には下記のような無鉛ハンダの使用を推奨します。

- Sn+Ag+Cu (錫 + 銀 + 銅)
- Sn+Cu (錫 + 銅)
- Sn+Zn+Bi (錫 + 亜鉛 + ビスマス)

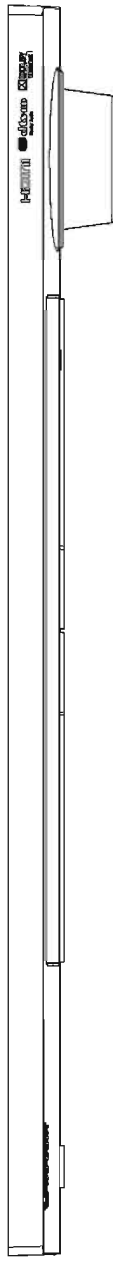
注意：

無鉛ハンダの融点温度は通常の鉛入りハンダに比べ30～40℃程度高くなっていますので、それぞれのハンダに合ったハンダごてをご使用ください。

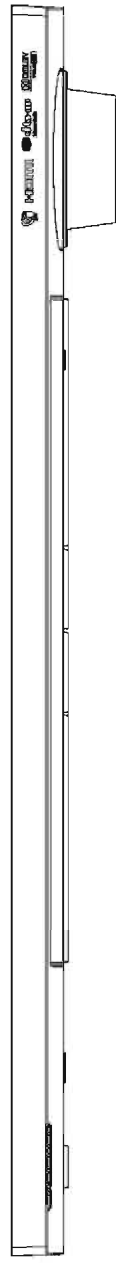
FRONT PANELS

Top view

U, C, R, T, K, A, B, G, E, F, L models



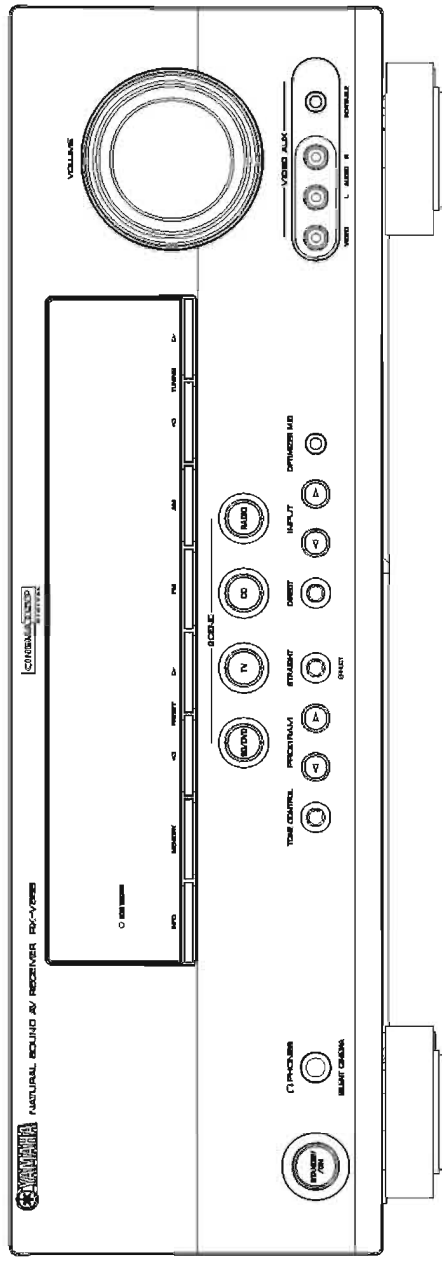
J model



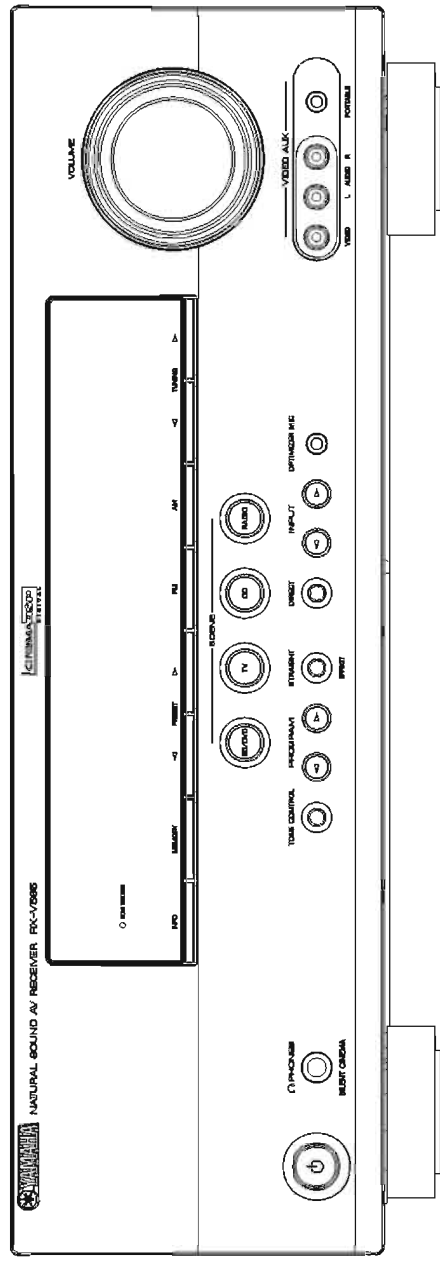
RX-V565/HTR-6250/
AX-V565

Front view

RX-V565 (U, C, R, K, A, B, G, E, F, L models)

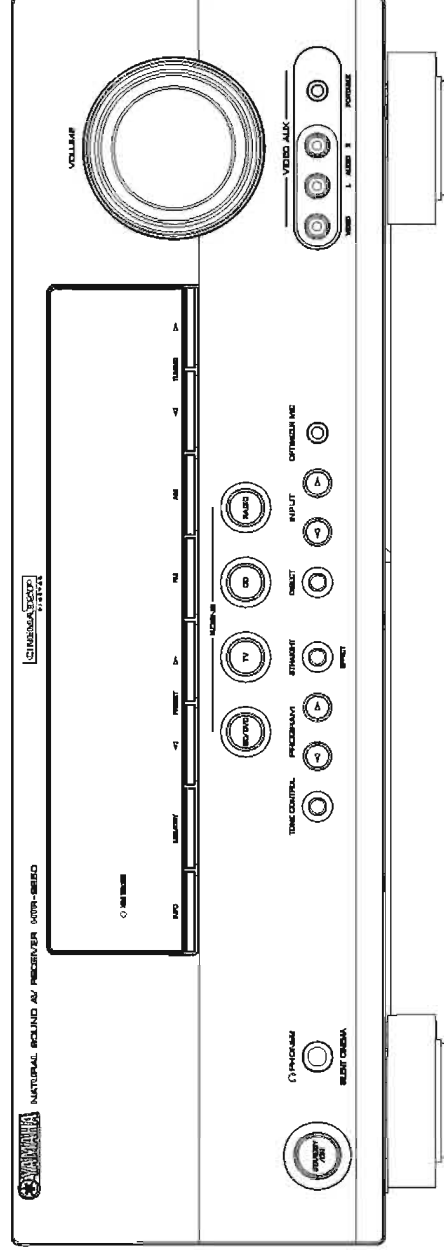


RX-V565 (T model)



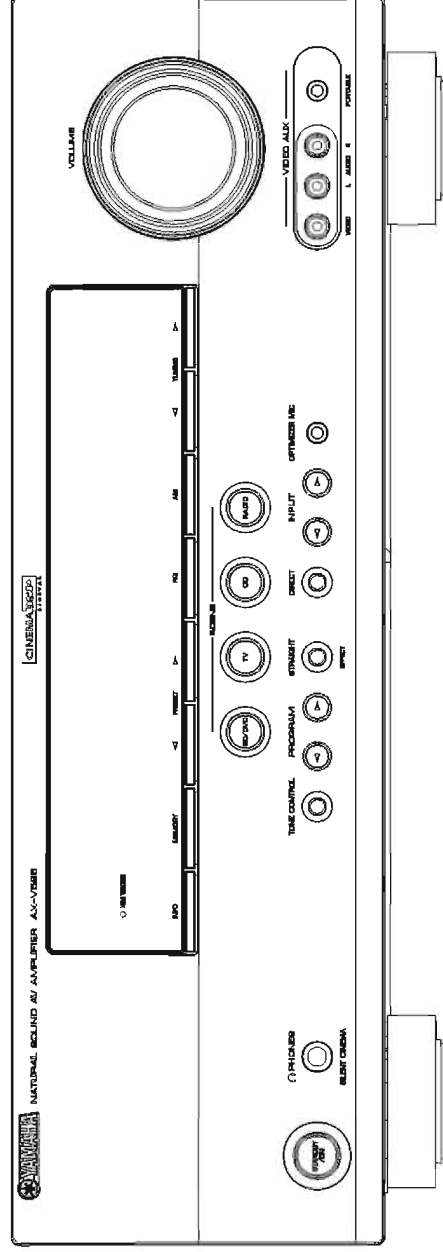
RX-V565/HTR-6250/AX-V565

HTR-6250 (U, C, K, F models)



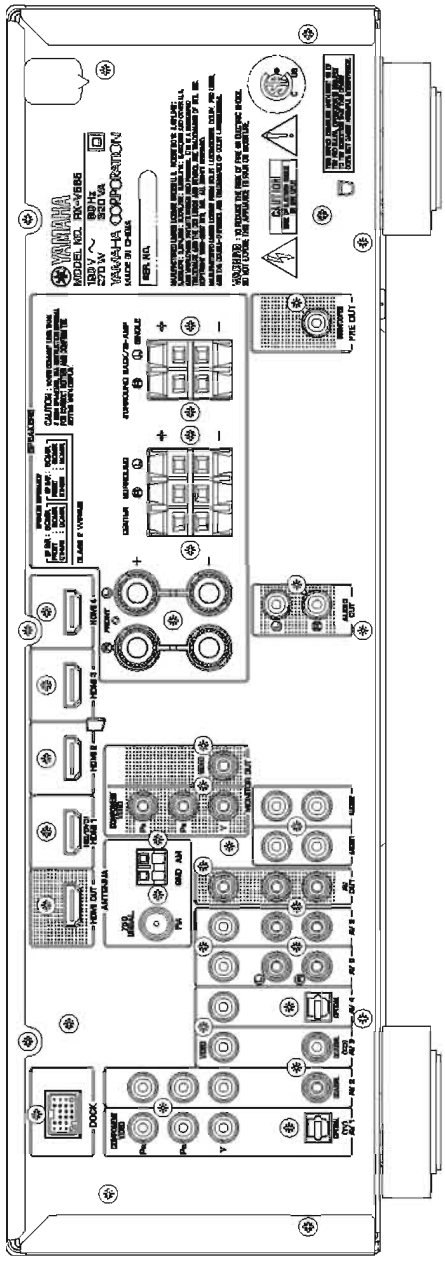
RX-V565/HTR-6250/
AX-V565

AX-V565 (J model)

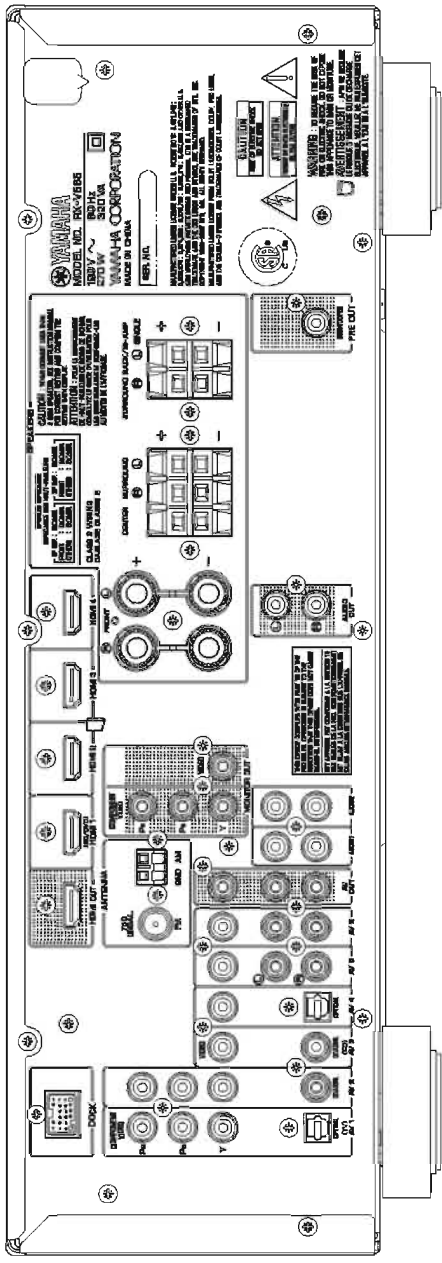


REAR PANELS

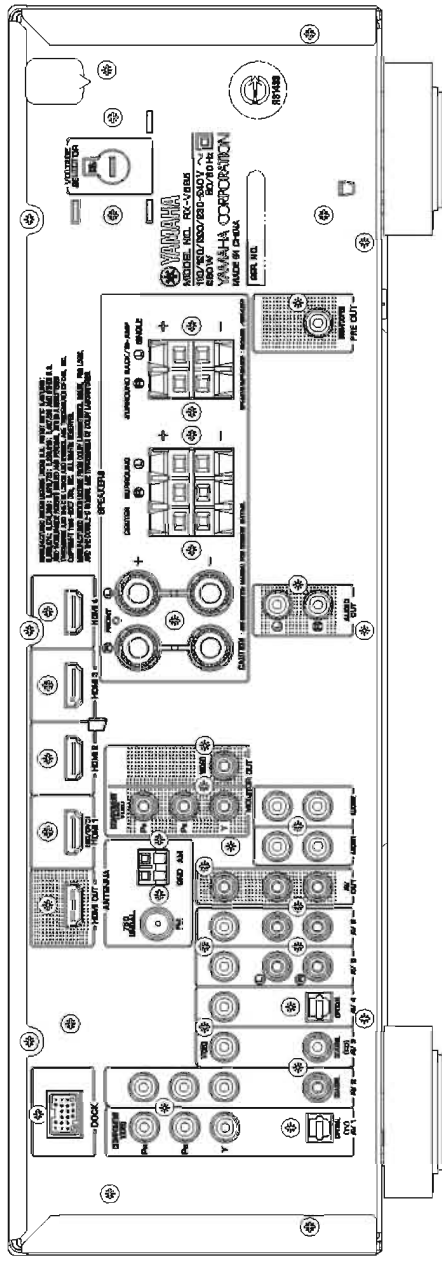
RX-V565 (U model)



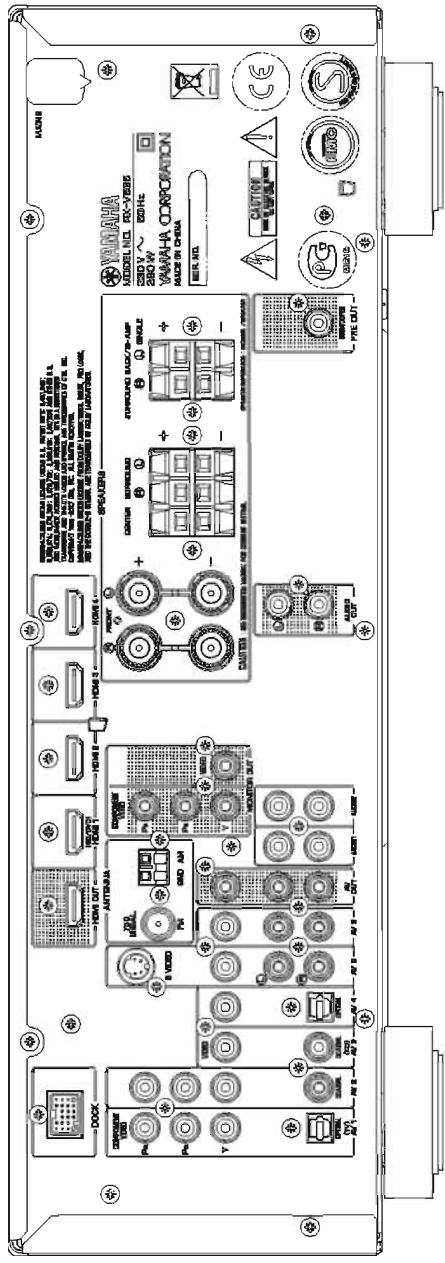
RX-V565 (C model)



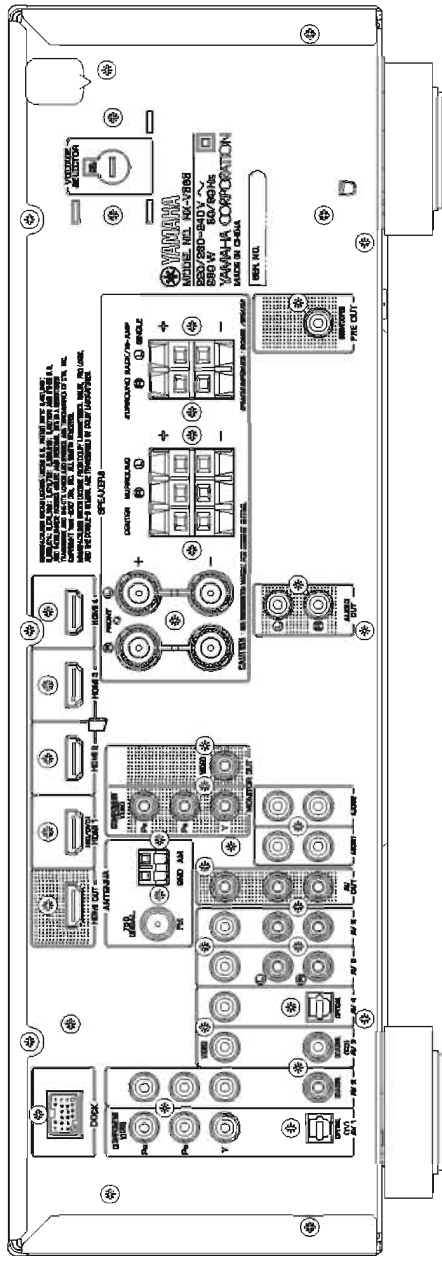
RX-V565 (R model)



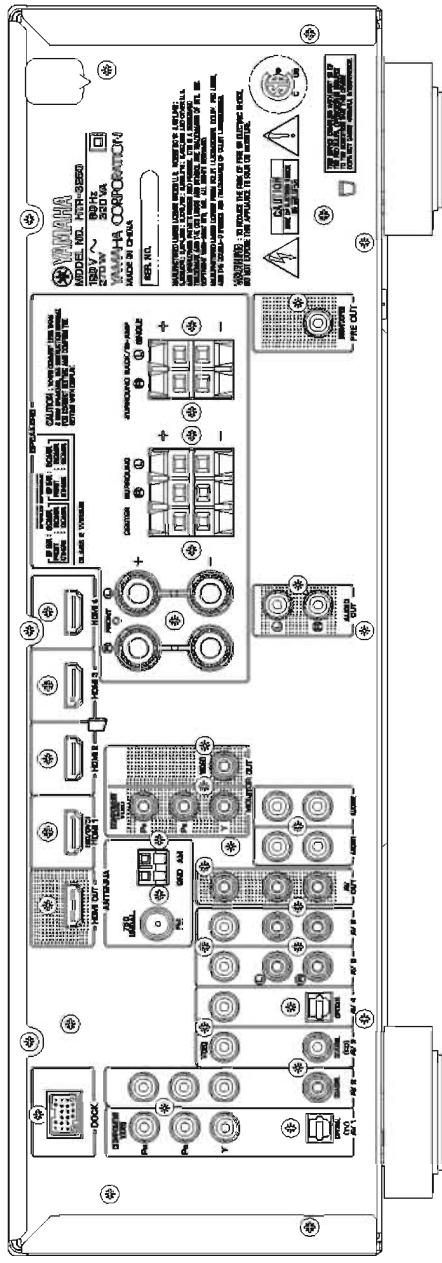
RX-V565 (B, G, E, F models)



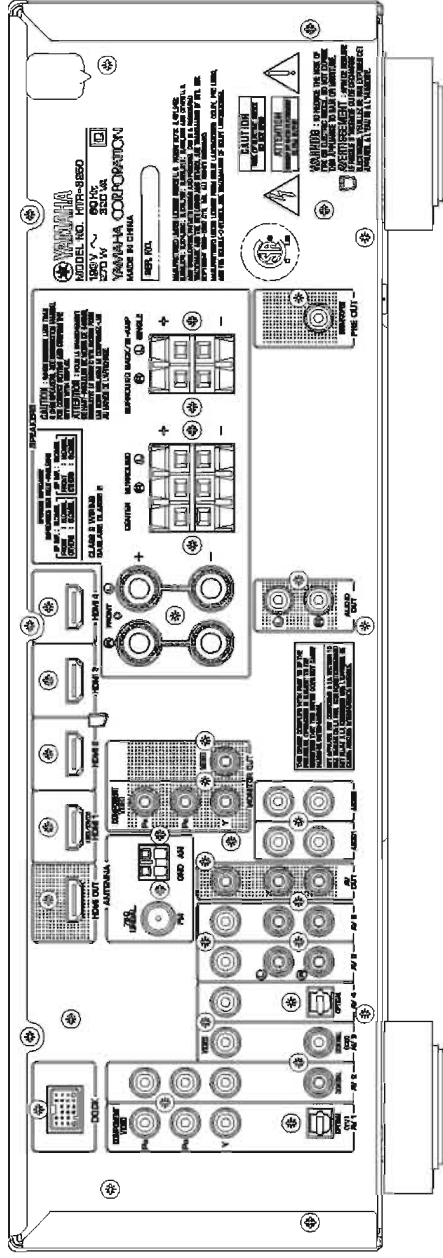
RX-V565 (L model)



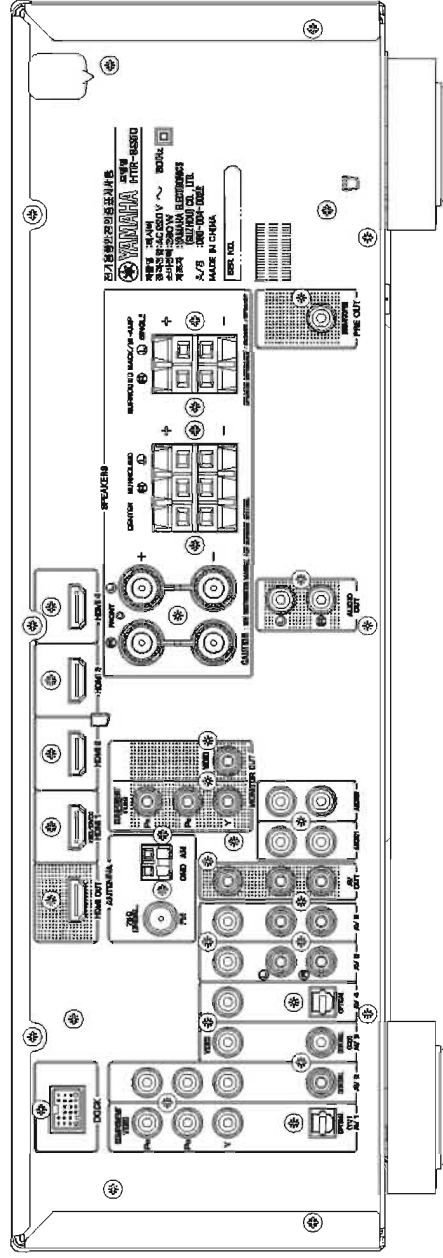
HTR-6250 (U model)



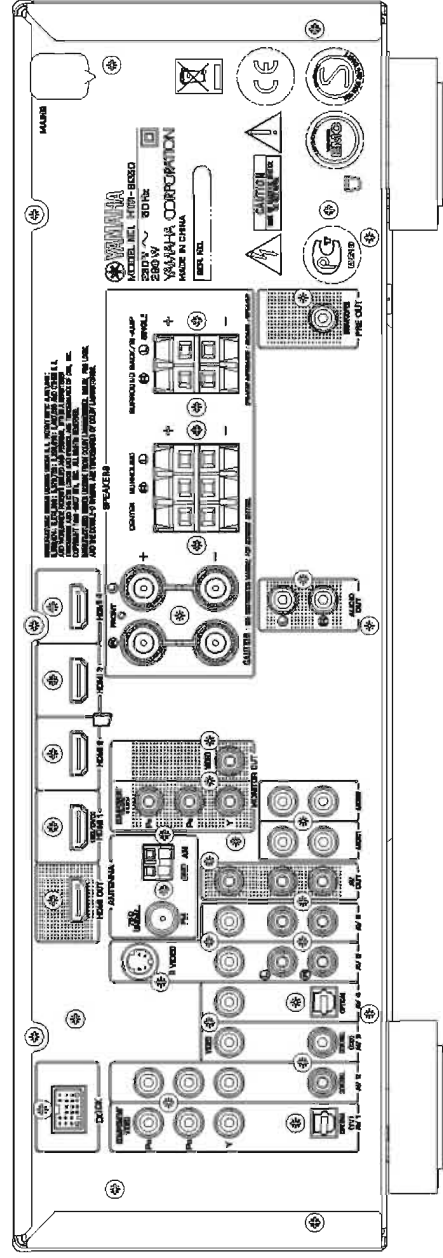
HTR-6250 (C model)



HTR-6250 (K model)



HTR-6250 (F model)



SPECIFICATIONS / 参考仕様

Audio Section / オーディオ部

Minimum RMS Output Power (Power Amp. Section) /

定格出力 (パワーアンプ部)

(1 kHz, 0.9 % THD)	
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R	90 W/ch
U, C models (8 ohms)	90 W/ch
R, T, K, A, B, G, E, F, L, J models (6 ohms)	90 W/ch

Maximum Power / 実用最大出力 (JEITA) (1 kHz, 10 % THD, 6 ohms)

[R, T, K, L, J models]	
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R	115 W/ch

MAX. Power Per Channel (1 kHz, 0.7 % THD, 4 ohms)

[B, G, E, F, L models]	
FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R	105 W/ch

IEC Power (1 kHz, 0.9 % THD, 8 ohms) [B, G, E, F, L models]

FRONT L/R	90 W/ch
-----------	---------

Dynamic Power Per Channel / ダイナミックパワー (IHF)

FRONT L/R drive	
U, C models	90 W/ch

(8/6/4/2 ohms)

R, T, K, A, B, G, E, F, L, J models	95 / 110 / 130 / 150 W
-------------------------------------	------------------------

(6/4/2 ohms)

	100 / 110 / 125 W
--	-------------------

Dynamic Headroom [U, C models]

8 ohms	0.23 dB
--------	---------

Input Sensitivity/Input Impedance / 入力感度 / 入力インピーダンス

(1 kHz, 100 W/6 ohms)	
AV5 etc.	200 mV / 47 k-ohms

Maximum Input Signal / 最大許容入力 (1 kHz, 0.5 % THD)

AV5 etc.	2.0 V or more
----------	---------------

Output Level/Output Impedance / 出力電圧 / 出力インピーダンス

REC OUT	200 mV/1.2 k-ohms
---------	-------------------

SUBWOOFER (2 ch stereo and FRONT SP: small)

	1 V/1.2 k-ohms
--	----------------

Headphone Jack Rated Output/Output Impedance /

ヘッドホン出力 / 出力インピーダンス	
AV5 etc. input (1 kHz, 50 mV, 8 ohms)	100 mV/470 ohms

Frequency Response / 再生周波数帯域

CD etc., FRONT (10 Hz to 100 kHz)	0/-3 dB
-----------------------------------	---------

Total Harmonic Distortion / 全高調波歪率

AV5 etc. (DIRECT) to FRONT SP OUT (1 kHz, 50 W)	
U, C models (8 ohms)	0.05 % or less

R, T, K, A, B, G, E, F, L, J models (6 ohms)

	0.06 % or less
--	----------------

Signal to Noise Ratio / 信号対雑音比 (IHF-A network)

AV5, etc. (DIRECT) to SP OUT (Input shorted 250 mV)	
	100 dB or more

Residual Noise / 残留ノイズ (IHF-A Network)

FRONT L/R to SP OUT	150 µV or less
---------------------	----------------

Channel Separation / チャンネルセパレーション

AV5, etc. (Input 5.1 k-ohms shorted)	
1 kHz / 10 kHz	60 dB or more / 45 dB or more

Volume Control / 可変範囲 / ステップ

	MUTE / -80 dB to +16.5 dB / 0.5 dB step
--	---

Tone Control Characteristics / トーンコントロール特性

FRONT L/R	
Bass	±10 dB/2 dB, step 50 Hz

Boost/Cut

Turnover frequency	350 Hz
--------------------	--------

Treble

Boost/Cut	±10 dB/2 dB, step 20 kHz
-----------	--------------------------

Turnover frequency

	3.5 kHz
--	---------

Filter Characteristics / フィルタ特性

FRONT, CENTER, SURROUND, SURROUND BACK small (H.P.F.)	
	to=40/60/80/90/100/110/120/160/200 Hz, 12 dB/oct.

SUBWOOFER small (L.P.F.)

	to=40/60/80/90/100/110/120/160/200 Hz, 24 dB/oct.
--	---

Video Section / ビデオ部

Video Signal Type / ビデオ信号方式

Gray/back / グレーバック	
U, C, R, K, J models	NTSC

T, A, B, G, E, F, L models	PAL
----------------------------	-----

Video conversion / ビデオコンバージョン

	NTSC/PAL
--	----------

Composite Video Signal Level / コンポジットビデオ信号

	1 Vp-p / 75 ohms
--	------------------

S-Video Signal Level [B, G, E, F models]

Y	1 Vp-p / 75 ohms
---	------------------

C	0.286 Vp-p / 75 ohms
---	----------------------

Component Video Signal Level / コンポーネントビデオ信号

Y	1 Vp-p / 75 ohms
---	------------------

Cb/Cr	0.7 Vp-p / 75 ohms
-------	--------------------

D4 Video Signal / D4 ビデオ信号 [U model]

Y	1 Vp-p / 75 ohms
---	------------------

Cb/Cr	0.7 Vp-p / 75 ohms
-------	--------------------

Video Maximum Input Level / ビデオ最大許容入力

	1.5 Vp-p or more
--	------------------

Video Signal to Noise Ratio / ビデオ信号対雑音比

	50 dB or more
--	---------------

Monitor Out Frequency Response / モニター出力周波数帯域

Component video signal level	5 Hz to 60 MHz, -3 dB
------------------------------	-----------------------

D4 video signal / D4 ビデオ信号 (J model)	5 Hz to 60 MHz, -3 dB
--------------------------------------	-----------------------

FM Section / FM 部

Tuning Range / 受信周波数範囲

U, C models	87.5 to 107.9 MHz
-------------	-------------------

R, L models	87.5 to 108.0 MHz / 87.50 to 108.00 MHz
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T, K, A, B, G, E, F models	87.50 to 108.00 MHz
----------------------------	---------------------

J model	76.0 to 90.0 MHz
---------	------------------

50 dB Quieting Sensitivity (IHF) (1 kHz, 100 % MOD.)

MONO/STEREO	3 µV (20.8 dBf)
-------------	-----------------

Signal to Noise Ratio / S/N 比 (IHF)

Mono	74 dB
------	-------

Stereo	69 dB
--------	-------

Harmonic Distortion / 歪率 (1 kHz)

Mono	0.3 %
------	-------

Stereo	0.3 %
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Antenna Input / アンテナ入力

	75 ohms unbalanced
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AM Section / AM 部

Tuning Range

U, C models	530 to 1,710 kHz
-------------	------------------

R, L models	530 to 1,710 kHz / 531 to 1,611 kHz
-------------	-------------------------------------

T, K, A, B, G, E, F, J models	531 to 1,611 kHz
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Antenna / アンテナ

	Loop antenna
--	--------------

General / 総合

Power Supply / 電源電圧

U, C models	AC 120 V, 60 Hz
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R model	AC 110/120/220/230-240 V, 50/60 Hz
---------	------------------------------------

T model	AC 220 V, 50 Hz
---------	-----------------

K model	AC 220 V, 60 Hz
---------	-----------------

A model	AC 240 V, 50 Hz
---------	-----------------

B, G, E, F models	AC 230 V, 50 Hz
-------------------	-----------------

L model	AC 220/230-240 V, 50/60 Hz
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J model	AC 100 V, 50/60 Hz
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Power Consumption / 消費電力

U, C models	270 W / 320 VA
-------------	----------------

R, T, K, A, B, G, E, F, L models	280 W
----------------------------------	-------

J model	175 W
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Standby Power Consumption (reference data)

HDMI control: OFF / Standby through: OFF0.2 W or less
HDMI control: ON / Standby through: ON / Repeat	.....3 W or less
HDMI control: ON / Standby through: ON	.....1.2 W or less

Maximum Power Consumption [R, L models]

(7 ch drive, 10 % THD)490 W

Dimensions (W x H x D) / 寸法 (幅 x 高さ x 奥行き)

.....435 x 151 x 364 mm (17-1/8" x 5-7/8" x 14-3/8")

Weight / 質量

.....8.5 kg (18.7 lbs.)

Finish / 仕上げ

[RX-V565]

Gold color	.....R, T models
Black color	.....U, C, R, T, K, A, B, G, E, F, L models
Titanium color	.....K, G, E, F, L models
[HTR-6250]	
Black color	.....U, C, K, F models

[AX-V565]

Gold color	.....J model
Black color	.....J model

Accessories / 付属品

Remote control	.....X 1
Battery (R03, AAA, UMI-4)	.....X 2
Indoor FM antenna (1.4 m)	.....X 1
AMI loop antenna (1.0 m)	.....X 1
Optimizer microphone (6.0 m)	.....X 1

- Specifications are subject to change without notice due to product improvements.

※ 参考仕様および外觀は予告なく変更されることがあります。

U	..... U.S.A. model	B	..... British model
C	..... Canadian model	G	..... European model
R	..... General model	E	..... South European model
T Chinese model	F Russian model
K Korean model	L Singapore model
A Australian model	J Japanese model



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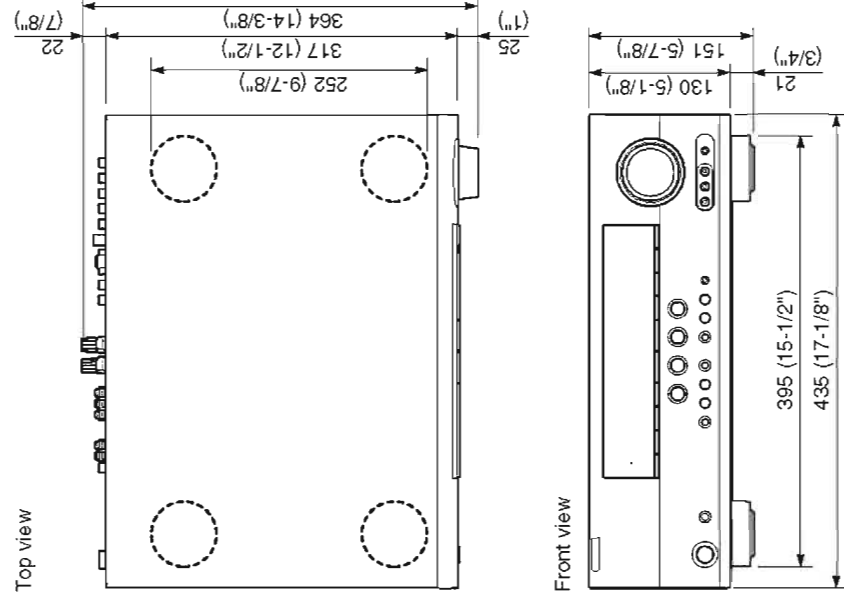
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• DIMENSIONS / 寸法図



Unit: mm (inch)
単位: mm (インチ)

• SCENE TEMPLATE

Name	BD/DVD	TV	CD	RADIO
INPUT	HDMI1	AV-1 (Component / Optical)	AV-3 (Video / Coaxial)	TUNER
Sound field mode	STRAIGHT	STRAIGHT	STRAIGHT	MUSIC ENHANCER 7ch Enhancer

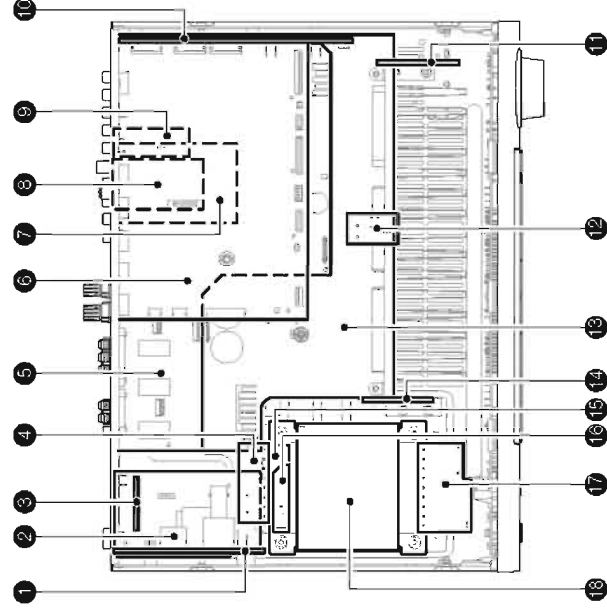
• SET MENU TABLE / セットメニュー

MAIN MENU	SUB MENU	PARAMETER	VALUE [INITIAL VALUE]		
1 • Speaker Setup	1 Auto Setup (YPAO)	Extra SP Assign	[Zone2] / Presence / None		
		EQ Type	[Natural] / Flat / Front		
2 Manual Setup	Start	Start	[ENTER] / Start		
		A) Config	LFE/Bass Out	SWFR / Front / [Both]	
			Front SP	Small / [Large]	
			Center SP	None / [Small] / Large	
			Sur. L/R SP	None / SMLx1 / [SMLx2] / LRgx1 / LRgx2	
			Sur. B L/R SP	40 / 60 / [80] / 90 / 100 / 110 / 120 / 160 / 200 Hz	
		B) Level	Crossover Freq. Freq.	[Normal] / Reverse	
			Subwoofer Phase		
			FR. L	-10.0 to +10.0 dB, [0 dB], 0.5 dB step	
			FR. R		
			CNTR		
		C) Distance	SUR. L		
			SUR. R	-10.0 to +10.0 dB, [-1.0 dB], 0.5 dB step	
			SBL		
			SWFR	-10.0 to +10.0 dB, [0 dB], 0.5 dB step	
Unit	meters (m) / [feet (ft)]				
D) Equalizer	EQ Type Select	Front L	0.30 to 24.00 m, [3.00 m]		
		Front R	0.30 to 24.00 m, [3.00 m]		
		Center	0.30 to 24.00 m, [2.60 m]		
		Sur. L			
		Sur. R	0.30 to 24.00 m, [2.40 m]		
		Sur. B L			
		Sur. B R			
		SWFR	0.30 to 24.00 m, [3.00 m]		
		Front L			
		Front R	1.0 to 80.0 ft, [10.0 ft]		
		Center	1.0 to 80.0 ft, [8.5 ft]		
		Sur. L			
		Sur. R	1.0 to 80.0 ft, [8.0 ft]		
		Sur. B L			
		Sur. B R			
SWFR	1.0 to 80.0 ft, [10.0 ft]				
E) Test Tone	EQ Type Select	GEQ	Auto PEQ / [GEC] / Off		
		Front L	* "GEQ" is available only when "EQ Type Select" is set to "GEC". "GEC" 選択時のみ設定可能		
		Front R			
		Center			
		Sur. L			
		Sur. R			
		SBL			
		SBR			
		63 Hz	.....|..... 0 dB	
		160 Hz	.....|..... 0 dB	
		400 Hz	.....|..... 0 dB	
		1 kHz	.....|..... 0 dB	
		2.5 kHz	.....|..... 0 dB	
		6.3 kHz	.....|..... 0 dB	
		16 kHz	.....|..... 0 dB	
2 • Sound Setup	1 Dynamic Range	EQ Type Select	[Off] / On		
		2 Lipsync	Min/Auto / STD / [Max]		
		HDMI Auto	[Off] / On		
		Auto Delay	0 to 240 ms, [0 ms], 1 ms step		
		Manual Delay			
		3 • Function Setup	1 HDMI	Control	On / [Off]
				Standby Through	On / [Off]
				Audio Output	[* This menu is available only when "Control" is set to "Off". / "Control : Off" 選択時のみ設定可能]
				Resolution	[Amp] / TV / Amp+TV
				Aspect	[* This menu is available only when "Control" is set to "Off". / "Control : Off" 選択時のみ設定可能]
				Dimmer	[*Through] / *480p / *720p / *1080i / *1080p
				FL Scroll	[Through] / 16:9 / Smart
				OSD Shift	-4 to 0, [0]
					[Continue] / Once
					-5 to +5, [0]

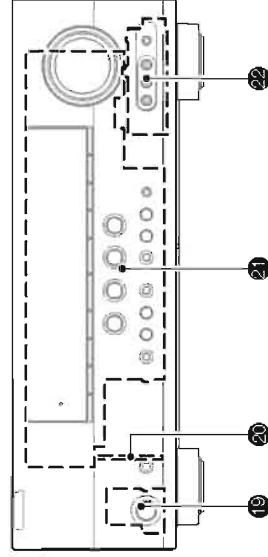
MAIN MENU	SUB MENU	PARAMETER	VALUE [INITIAL VALUE]	
3 Volume	Adaptive DRC		Auto / [Off]	
	Max Volume		-30.0 dB to +15.0 dB / [+16.5 dB], 5.0 dB step	
4 Input Rename	Init. Volume		[Off] / Mute / -80.0 to +16.5 dB, 0.5 dB step Input is possible to 9 characters / 9 文字まで入力可能 Capital / 英大文字 : A to Z Small / 英小文字 : a to z Figure / 数字 : 0 to 9 Space / 空白 : # * + , - . / : < > ? etc.	
4 • DSP Parameter	7ch Stereo	CT Level		
		SL Level	0 to 100 %	
		SR Level		
		SB Level		
MUSIC ENHANCER	Straight Enhancer	Initialize	[High] / Low	
		Effect Level - High		
		Initialize		
		Effect Level - High	[High] / Low	
SUR. DECODE	Sur. Decoder	SUR. Pro Logic	Pro Logic / PL IIX Movie / PL IIX Music / PL IIX Game / Neo:6 Cinema / Neo:6 Music / Neural Sur. (U model)	
MOVIE	Standard	Pro Logic	Initialize	
		PL IIX Movie	Initialize	
	Spectacle	PL IIX Music	Panorama	[Off] / On
			Center Width	0 to 7, [3]
			Dimension	-3 to [STD] to +3
			Initialize	
	Sci-Fi	PL IIX Game	Initialize	
		Neo:6 Cinema	Initialize	
		Neo:6 Music	C. Image	0.0 to 1.0, [0.3]
		Neural Sur.	Initialize	
	Adventure	SUR. PL IIX Movie	Initialize	
		PL IIX Movie	[1], [4], [8], [11], [16]	PL IIX Movie / Neo:6 Cinema
		Neo:6 Cinema	[1], [4], [8], [11], [16]	
		SUR. PL IIX Movie	Initialize	
	Drama	PL IIX Movie	[1], [3], [4], [7], [8], [16]	PL IIX Movie / Neo:6 Cinema
		Neo:6 Cinema	[1], [4], [8], [11], [16]	
		SUR. PL IIX Movie	Initialize	
		PL IIX Movie	[1], [3], [4], [7], [8], [16]	PL IIX Movie / Neo:6 Cinema
	Mono Movie	PL IIX Movie	[1], [3], [4], [7], [8], [16]	
		Neo:6 Cinema	[1], [3], [4], [7], [8], [16]	
SUR. PL IIX Movie		Initialize		
PL IIX Movie		[1], [3], [4], [7], [8], [16]	PL IIX Movie / Neo:6 Cinema	
MUSIC	Sports	[1], [2], [6], [10], [13], [14], [15], [16]		
	Action Game	[1], [3], [4], [7], [8], [16]		
	Roleplaying Game	[1], [3], [4], [7], [8], [16]		
	Hall in Munich	[1], [2], [6], [10], [16]		
STEREO	Hall in Vienna	[1], [2], [6], [10], [16]		
	Chamber	[1], [2], [10], [13], [14], [15], [16]		
	Cellar Club	[1], [2], [6], [10], [16]		
	The Roxy Theatre	[1], [2], [6], [10], [13], [14], [15], [16]		
STEREO	Music Video	[1], [2], [6], [10], [16]		
	2ch Stereo	[1], [3], [4], [7], [8], [16]	[Auto] / Off	
	Direct	Initialize		

MAIN MENU	SUB MENU	PARAMETER	VALUE [INITIAL VALUE]
	[1]	DSP Level	-6 to +3 dB, [0 dB]
	[2]	Init. Delay	1 to 99 ms
	[3]	P. Init. Dly	1 to 49 ms
	[4]	S. Init. Dly	1 to 49 ms
	[6]	Room Size	
	[7]	P. Room Size	0.1 to 2.0
	[8]	S. Room Size	
	[10]	Liveness	0 to 10
	[11]	S. Liveness	
	[13]	Rev. Time	1.0 to 5.0 s
	[14]	Rev. Delay	0 to 250 ms
	[15]	Rev. Level	0 to 100 %
	[16]	Initialize	
5 • Memory Guard			
			[Off] / On

INTERNAL VIEW



- 1 VIDEO (2) P.C.B.
- 2 VIDEO (3) P.C.B.
- 3 MAIN (3) P.C.B. (R, L models)
- 4 MAIN (2) P.C.B.
- 5 VIDEO (1) P.C.B.
- 6 DIGITAL P.C.B.
- 7 VIDEO (8) P.C.B. (J model)
- 8 AM/FM TUNER
- 9 VIDEO (9) P.C.B. (B, G, E, F models)
- 10 OPERATION (2) P.C.B.
- 11 OPERATION (10) P.C.B.
- 12 MAIN (5) P.C.B.
- 13 MAIN (1) P.C.B.
- 14 MAIN (6) P.C.B.
- 15 MAIN (4) P.C.B. (R, L models)
- 16 VIDEO (7) P.C.B. (U, C, T, K, A, B, G, E, F models)
- 17 VIDEO (6) P.C.B.
- 18 POWER TRANSFORMER
- 19 OPERATION (6) P.C.B.
- 20 OPERATION (3) P.C.B.
- 21 OPERATION (1) P.C.B.
- 22 OPERATION (7) P.C.B.



SERVICE PRECAUTIONS / サービス時の注意事項

Safety measures

- Some internal parts in this product contain high voltages and are dangerous.
Be sure to take safety measures during servicing, such as wearing insulating gloves.
- Note that positions indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there.
Before starting any repair work, perform discharge by connecting a discharge resistor (5k-ohms/10W) between terminals at following positions.
The time required for discharging is about 30 seconds.
C3703 on VIDEO (2) P.C.B.
- Refer to "PRINTED CIRCUIT BOARDS: VIDEO (2) P.C.B."

安全対策

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- 下記箇所には電源を OFF にした後も電荷が残り、高電圧が維持されており危険です。
修理作業前に放電用抵抗 (5 k Ω /10 W) を下記箇所の端子間に接続して放電してください。
放電所用時間は約 30 秒間です。
VIDEO (2) P.C.B. の C3703
- "PRINTED CIRCUIT BOARDS : VIDEO (2) P.C.B." を参照してください。

■ DISASSEMBLY PROCEDURES / 分解手順

(Remove parts in the order as numbered.)

Disconnect the power cable from the AC outlet.

(番号順に部品を取り外してください。)
AC電源コンセントから、電源コードを抜いてください。

1. Removal of Top Cover

- Remove 4 screws (①) and 5 screws (②). (Fig. 1)
- Slide the top cover rearward to remove it. (Fig. 1)

1. トップカバーの外し方

- ①のネジ4本、②のネジ5本を外します。(Fig. 1)
- トップカバーを後方へスライドさせ、取り外します。(Fig. 1)

2. Removal of Front Panel Unit

- Remove screw (③), and remove W4001. (Fig. 1)
- Remove 2 screws (④), and remove W4002 and W4403. (Fig. 1)
- Remove 4 screws (⑤). (Fig. 1)
- Remove CB20, CB461 and CB477. (Fig. 1)
- Unlock and remove CB333. (Fig. 1)
- Release 2 hooks, and remove the front panel unit. (Fig. 1)

2. フロントパネルユニットの外し方

- ③のネジ1本を外し、W4001を取り外します。(Fig. 1)
- ④のネジ2本を外し、W4002、W4403を取り外します。(Fig. 1)
- ⑤のネジ4本を外します。(Fig. 1)
- CB20、CB461、CB477を外します。(Fig. 1)
- ロックを外し、CB333を外します。(Fig. 1)
- フック2箇所を外し、フロントパネルユニットを取り外します。(Fig. 1)

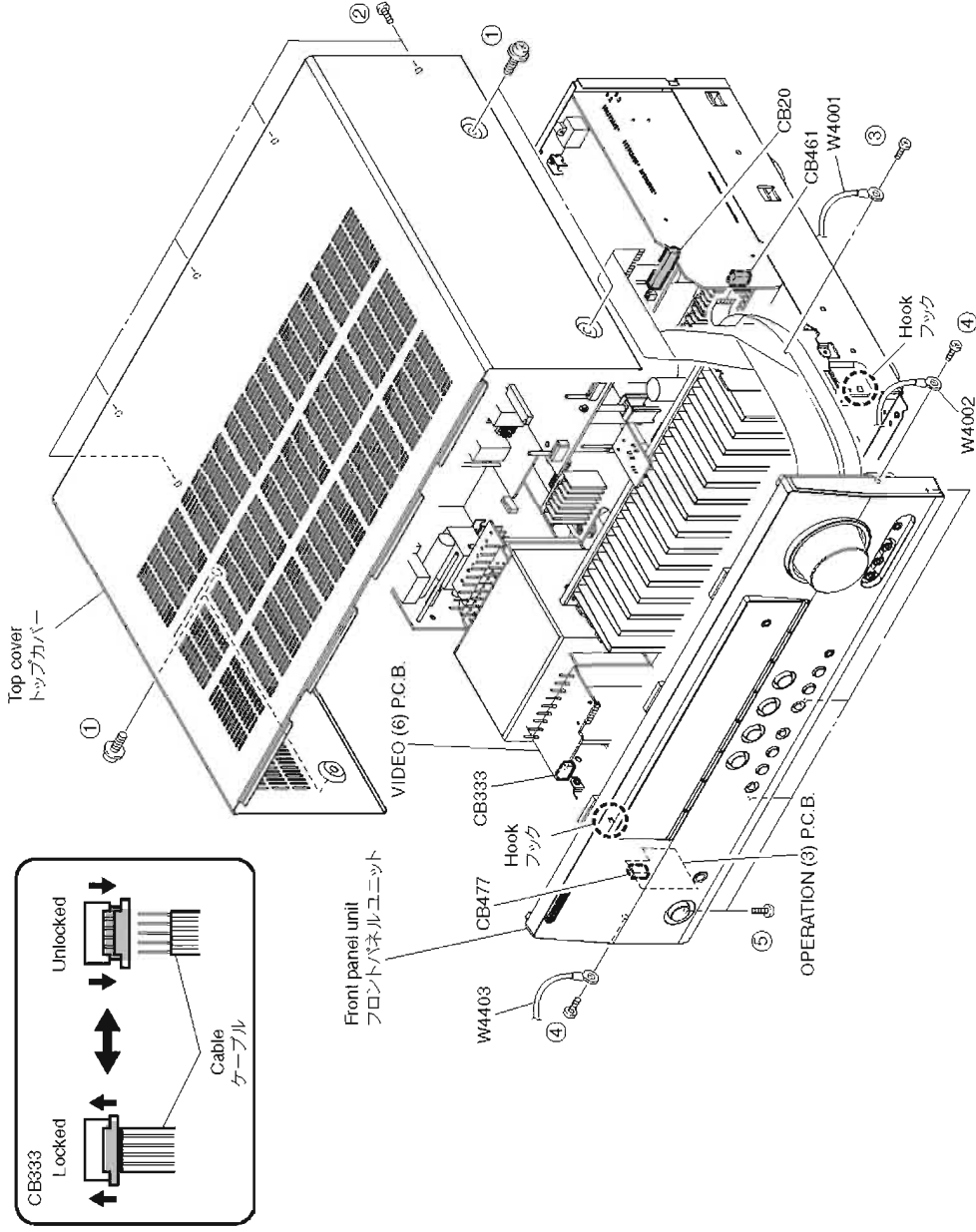


Fig. 1

3. Removal of DIGITAL P.C.B.

- Remove 2 screws (⑥) and 5 screws (⑦). (Fig. 2)
- Remove screw (⑧). (Fig. 2)
- Remove CB7, CB25, CB72 and CB73 (B, G, E, F models). (Fig. 2)
- Unlock and remove CB22-24. (Fig. 2)
- Release hook. (Fig. 2)
- Remove the DIGITAL P.C.B. which is connected directly to the OPERATION (2) P.C.B. with board-to-board connectors. (Fig. 2)

3. DIGITAL P.C.B.の外し方

- ⑥のネジ2本、⑦のネジ5本を外します。(Fig. 2)
- ⑧のネジ1本を外します。(Fig. 2)
- CB7、CB25、CB72を外します。(Fig. 2)
- ロックを外し、CB22～24を外します。(Fig. 2)
- フック1箇所を外します。(Fig. 2)
- DIGITAL P.C.B.を取り外します。ただし、DIGITAL P.C.B.はOPERATION (2) P.C.B.に基板対基板コネクタで直接接続されています。(Fig. 2)

4. Removal of AMP Unit

- Remove 3 screws (⑨) and 4 screws (⑩). (Fig. 2)
- Remove 3 screws (⑪). (Fig. 2)
- Remove the amp unit. (Fig. 2)

4. アンプユニットの外し方

- ⑨のネジ3本、⑩のネジ4本を外します。(Fig. 2)
- ⑪のネジ3本を外します。(Fig. 2)
- アンプユニットを取り外します。(Fig. 2)

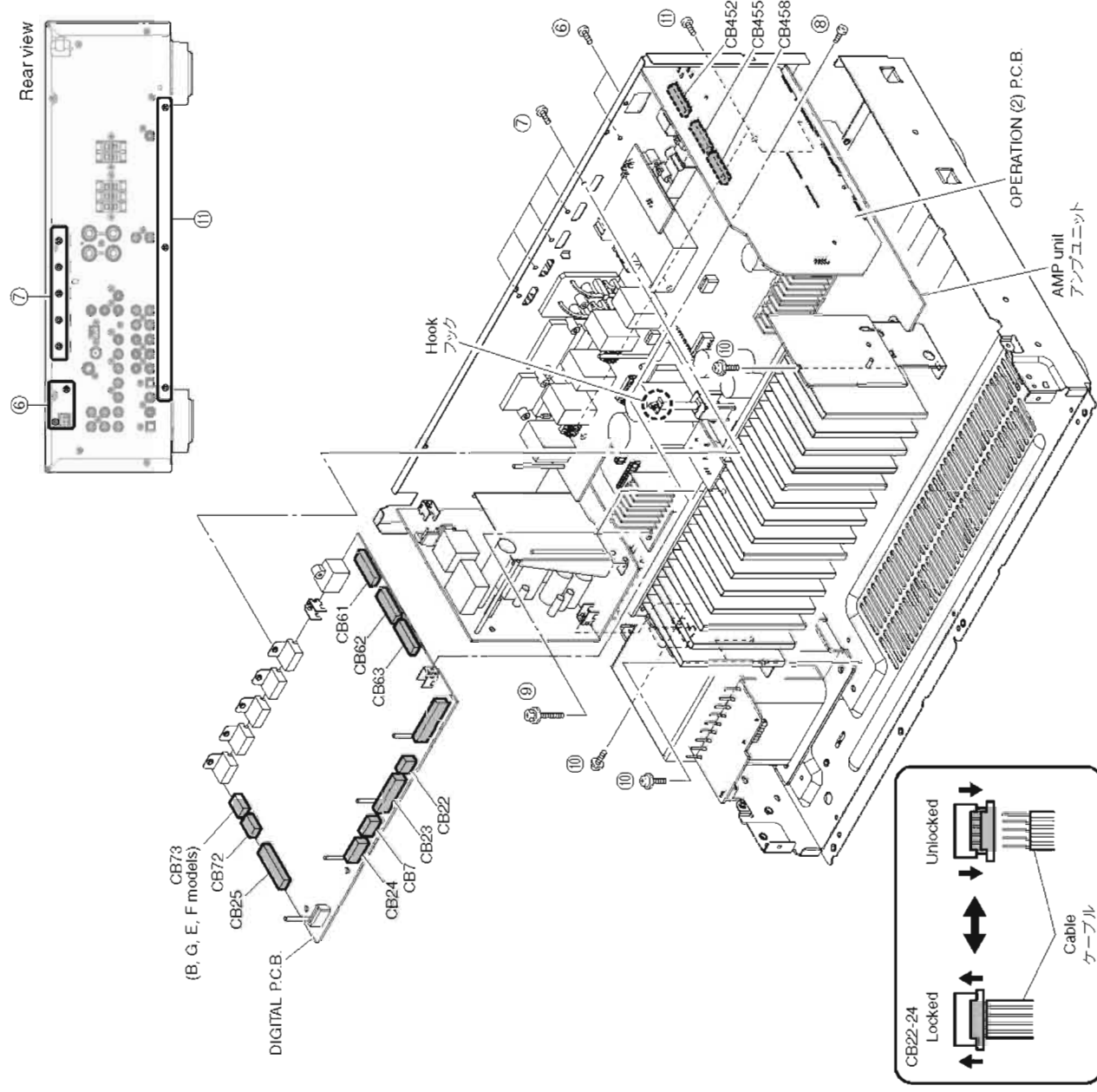


Fig. 2

When checking the P.C.B.s:

- Place the P.C.B.s (with rear panel) upright. (Fig. 3)
- Connect the ground points of the heat sink, rear panel and MAIN (1) P.C.B. (G1000) to the chassis with a ground lead or the like. (Fig. 3)
- When connecting the flexible flat cable, be careful with polarity.
- Reconnect all cables (connectors) that have been disconnected.
- Be sure to use the extension cable for servicing for the following section.

DIGITAL P.C.B. CB20 to OPERATION (1) P.C.B. CB401:
MF125400 (25P, 400mm, P=1.25)

OPERATION (1) P.C.B. CB402 to OPERATION (2) P.C.B.
CB461:

MF109400 (9P, 400mm, P=1.25)

P.C.B. をチェックする場合には:

- リアパネルと一緒にP.C.B.を立ち上げて置きます。(Fig.3)
- ヒートシンク、リアパネル、MAIN (1) P.C.B.のG1000のアースをリード線等でシャーシに接続してください。(Fig.3)
- フラットケーブルを接続する際、極性に注意してください。
- 外したケーブル (コネクタ) をすべて接続します。ただし次の区間は、サービス用延長ケーブルを使用してください。

DIGITAL P.C.B. CB20 ～ OPERATION (1) P.C.B. CB401:
MF125400 (25P、400mm、P=1.25)

OPERATION (1) P.C.B. CB402 ～ OPERATION (2) P.C.B.
CB461:

MF109400 (9P、400mm、P=1.25)

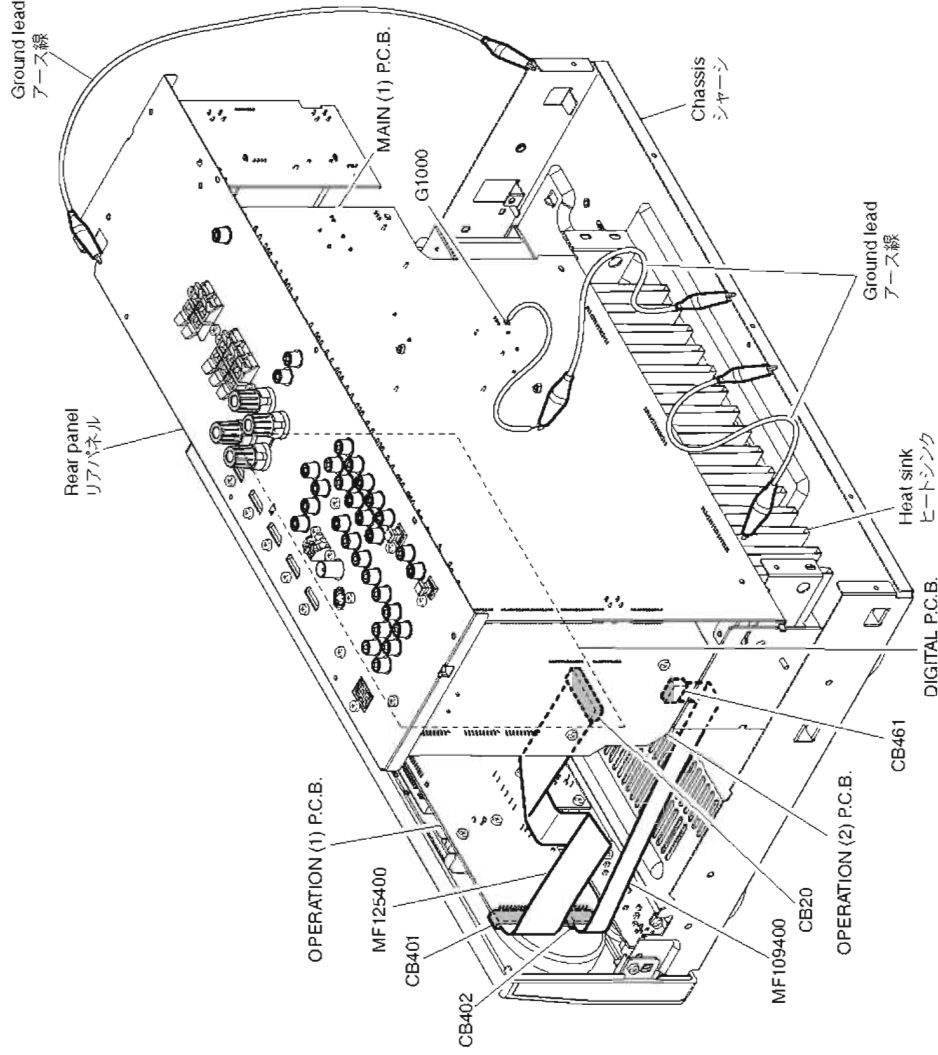


Fig. 3

■ UPDATING FIRMWARE / フォームウェアの書き込み

Note) The user memories (sound field parameters, system memory, tuner presetting, etc.) are kept stored even when you write the firmware.

注意) フォームウェアの書き込みを行っても、ユーザーメモリー（音場プログラムのパラメーターやシステムメモリー、チューナープリセット等）は保持されます。

When replacing the following parts, be sure to write the latest firmware.

下記の部品をサービス部品に交換した場合、最新のフォームウェアの書き込みを行ってください。

Replaced parts	Writing method using the CD / CD を使用して書き込む方法	Writing method using PC (RS232C) / PC (RS232C) を使用して書き込む方法
DIGITAL P.C.B.	yes	yes
IC20 (Main microprocessor) of DIGITAL P.C.B.	no	yes
IC49 (TI (DSP) flash ROM) of DIGITAL P.C.B.	yes	yes

RX-V565/HTR-6250/
AX-V565

● Confirmation of firmware version and checksum

Before and after writing firmware, check the firmware version and checksum by using the self-diagnostic function menu.

● フォームウェアのバージョンとチェックサムの確認

フォームウェアの書き込みの前後に、フォームウェアのバージョンとチェックサムをダイアグメニューで確認します。

Start up the self-diagnostic function and select "25. ROM VER/SUM/PORT" menu. (See "SELF DIAGNOSTIC FUNCTION")

ダイアグを起動し、“25.ROM VER/SUM/PORT”メニューを選択します。(ダイアグ (自己診断機能) 参照)

Using the sub-menu, have the firmware version and checksum displayed, and note down them.

サブメニューでフォームウェアのバージョンとチェックサムを表示し、それらを書きとめます。

25. ROM VER/SUM/PORT

Firmware version

Ver: 0022

The firmware version of microprocessor (IC20 DIGITAL P.C.B.) is displayed. マイコン (IC20 DIGITAL P.C.B.) のフォームウェアバージョンが表示されます。

All checksum

Sum: 162E

The checksum value of microprocessor (IC20 DIGITAL P.C.B.) is displayed. マイコン (IC20 DIGITAL P.C.B.) のチェックサムが表示されます。

TI (DSP) FLASH ROM version

TiVer: 02.041

The firmware version of TI (DSP) FLASH ROM (IC49 DIGITAL P.C.B.) is displayed. TI (DSP) FLASH ROM (IC49 DIGITAL P.C.B.) のフォームウェアバージョンが表示されます。

TI (DSP) FLASH ROM checksum

TISum: 2F3D6D1A

The checksum value of TI (DSP) FLASH ROM (IC49 DIGITAL P.C.B.) is displayed. TI (DSP) FLASH ROM (IC49 DIGITAL P.C.B.) のチェックサムが表示されます。

MODEL/DESTINATION

05 045 U 027

The model name and destination are displayed. モデル名、仕向け先が表示されます。

VERIFY error

Verify Error

Not applied to these models. このモデルには適用されません。

Writing method using the CD

- **Required Tools**
 - DVD or CD player (with DIGITAL OUTPUT (OPTICAL or COAXIAL) jack)
 - Optical cable (when OPTICAL jack is used)
 - Digital audio pin cable (when COAXIAL jack is used)
 - Firmware CD
 - * To make the firmware CD, download the latest firmware from the specified download source.

CD を使用して書き込む方法

- **必要なツール**
 - DVD または CD プレーヤー (DIGITAL OUTPUT (OPTICAL または COAXIAL) 端子付き)
 - 光ファイバーケーブル (OPTICAL 端子使用時)
 - デジタル音声ピンケーブル (COAXIAL 端子使用時)
 - ファームウェア CD
 - * ファームウェア CD は、最新のファームウェアを指定のダウンロード先からダウンロードして製作してください。

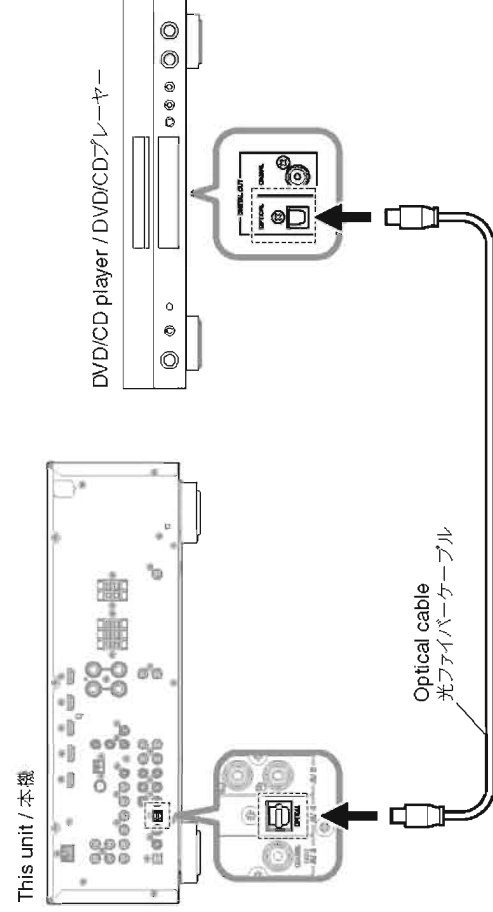
● **Connection**

Connect this unit and DVD/CD player as shown below. (Fig. 1)

● **接続**

本機とDVD/CDプレーヤーを下記のように接続します。(Fig. 1)

Example of OPTICAL jack / OPTICAL 端子使用例



Example of COAXIAL jack / COAXIAL 端子使用例

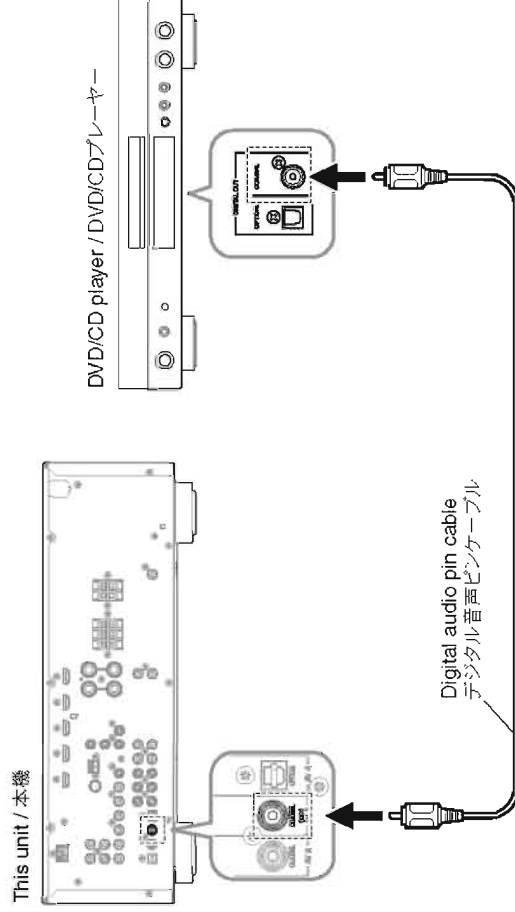


Fig. 1

● Operation Procedures

1. While pressing the "STRAIGHT" key of this unit, connect the power cable of this unit to the AC outlet. (Fig. 2)

The FIRMWARE UPDATE mode is activated and "CDDA Upgrader" is displayed. (Fig. 2)

● 操作手順

1. 本機の "STRAIGHT" キーを押しながら、本機の電源コードを AC コンセントに接続します。 (Fig. 2)
- FIRMWARE UPDATE モードが起動し、"CDDA Upgrader" が表示されます。 (Fig. 2)

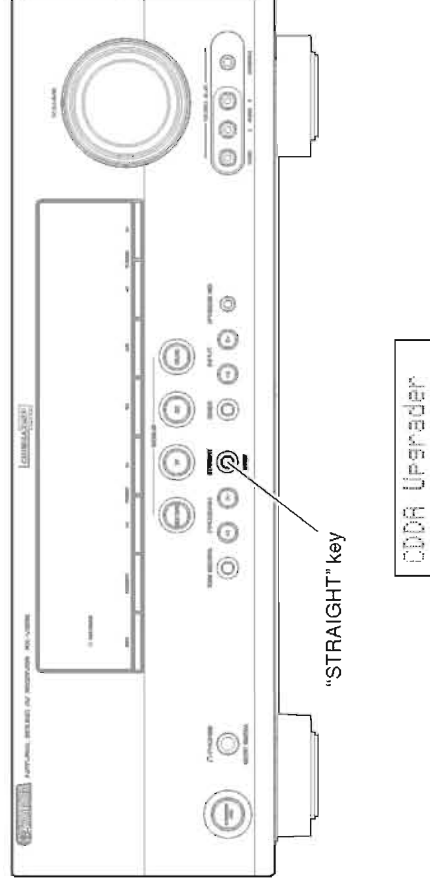


Fig. 2

2. Connect the power cable of DVD/CD player to the AC outlet.
3. Press the "STANDBY/ON" key of the DVD/CD player to turn on the power.
4. Press the "EJECT" key of the DVD/CD player to open the disc tray.
5. Put the firmware CD on the disc tray and close the disc tray.
6. Press the "PLAY" key of the DVD/CD player. Then writing of the firmware is started. (Fig. 3)
7. When writing of the firmware is completed, "Update Success", "Please..." and "Power off!!" are displayed repeatedly. (Fig. 3)

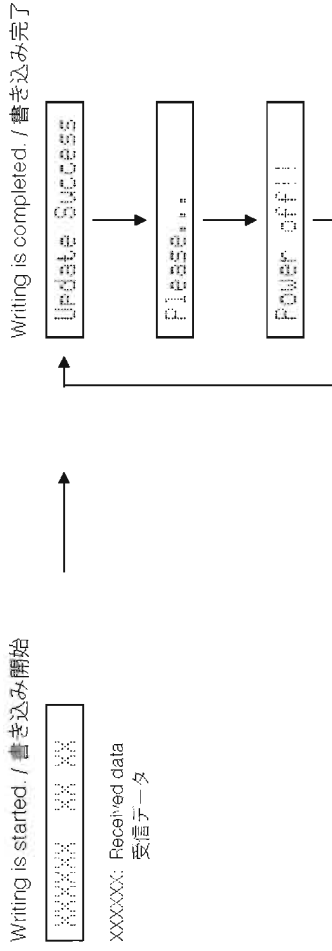


Fig. 3

- * When the version of the firmware to be written is the same as the one existing in this unit, "Same Version", "Please..." and "Power off!!" are displayed repeatedly. (Upgrading is not necessary.)
- If the display remains unchanged for longer than 10 seconds after starting the firmware CD play procedure, perform the firmware CD play procedure again from the beginning.
- If "FILE CORRUPTED" is displayed after "XXXXXX", make sure that the written data is not corrupted and perform Steps 1 to 7 of "Writing method using the CD" again.
- If "Upgrade Failed" is displayed, perform Steps 1 to 7 of "Operation Procedures" again.
8. Press the "STOP" key of the DVD/CD player.
 9. Press the "EJECT" key of the DVD/CD player to open the disc tray.
 10. Remove the firmware CD from the disc tray and close the disc tray.
 11. Press the "STANDBY/ON" key of the DVD/CD player to turn off the power.
 12. Press the "STANDBY/ON" key of this unit to turn off the power.
 13. Start up the self-diagnostic function and select "25. ROM VER/SUM/PORT" menu.
Using the sub-menu, have the firmware version and checksum displayed, and then check that they are the same as written ones.
- * When the displayed firmware version and checksum are different from written ones, perform the "Writing method using the CD" all over again.
14. Press the "STANDBY/ON" key of this unit to turn off the power.

※ 本機に既存のファームウェアと、書き込みもうとしていたファームウェアのバージョンが同じ場合、「Same Version」、「Please...」、「Power off!!」の表示が繰り返されます。(バージョンアップの必要はありません。)

ファームウェア CD の再生開始後、10 秒以上経過してもディスプレイ表示が変わらない場合、ファームウェア CD の再生を最初からやり直してください。

"XXXXXX" の後に、「FILE CORRUPTED」が表示された場合、書き込みデータが破損していないかを確認し、「CD を使用して書き込む方法」の 1 から 7 までをもう一度やり直してください。

"Upgrade Failed" が表示された場合、「操作手順」の 1 から 7 までをもう一度やり直してください。

8. DVD/CD プレーヤーの "STOP" キーを押します。
 9. DVD/CD プレーヤーの "EJECT" キーを押し、ディスクトレイを開きます。
 10. ファームウェア CD をディスクトレイから取り出し、ディスクトレイを閉じます。
 11. DVD/CD プレーヤーの "STANDBY/ON" キーを押して電源を切ります。
 12. 本機の "STANDBY/ON" キーを押して電源を切ります。
 13. ダイアグを起動し、「25. ROM VER/SUM/PORT」メニューを選択します。
サブメニューでファームウェアのバージョンとチェックサムを表示し、それらが書き込んだものと同じであることを確認します。
- ※ 表示されたファームウェアのバージョンとチェックサムが、書き込まれたものと異なる場合、「CD を使用して書き込む方法」をもう一度やり直してください。
14. 本機の "STANDBY/ON" キーを押して電源を切ります。

Writing method using PC (RS232C)

● Required Tools

- Firmware downloader program
For microprocessor: DSP_FLASHER_v3.0.exe
For DSP (TI flash ROM):
 DSP_FLASHER Ver2.7.exe
- Firmware
For microprocessor: VX65xxxx.mot
For DSP (TI flash ROM):
 Vx65_data1_verxxxxxr.hex
- RS232C cross cable "D-sub 9 pin female"
(Specifications)

Pin No.2 RxD	Pin No.2 RxD	Pin No.2 RxD
Pin No.3 TXD	Pin No.3 TXD	Pin No.3 TXD
Pin No.5 GND	Pin No.5 GND	Pin No.5 GND
Pin No.7 RTS	Pin No.7 RTS	Pin No.7 RTS
Pin No.8 CTS	Pin No.8 CTS	Pin No.8 CTS
- RS232C conversion adaptor (Part No.: WR492800)

● Preparation and precautions

- Download the firmware downloader program and the firmware from the specified source to the same folder of the PC.
- Prepare the above specified RS232C cross cable.
- While writing the firmware, keep the other application software on the PC closed.
It is also recommended to keep the software on the task tray closed as well.

PC (RS232C) を使用して書き込む方法

● 必要なツール

- ファームウェア書き込み用プログラム
マイコン用: DSP_FLASHER_v3.0.exe
DSP (TI flash ROM) 用:
 DSP_FLASHER Ver2.7.exe
- ファームウェア
マイコン用: VX65xxxx.mot
DSP (TI flash ROM) 用:
 Vx65_data1_verxxxxxr.hex
- RS232C クロスケーブル "D-sub 9pin メス"
(仕様)

Pin No.2 RxD	Pin No.2 RxD	Pin No.2 RxD
Pin No.3 TXD	Pin No.3 TXD	Pin No.3 TXD
Pin No.5 GND	Pin No.5 GND	Pin No.5 GND
Pin No.7 RTS	Pin No.7 RTS	Pin No.7 RTS
Pin No.8 CTS	Pin No.8 CTS	Pin No.8 CTS
- RS232C 変換アダプター (部品番号: WR492800)

● 準備と注意

- 指定のダウンロード先から、ファームウェア書き込み用プログラムとファームウェアを、PCの同じフォルダへダウンロードしてください。
- RS232C クロスケーブルは必ず上記仕様のもので用意してください。
- 書き込み時は、PC上の他のアプリケーションソフトは閉じてください。
- さらに、タスクトレイ上にあるソフトも閉じておくことを推奨します。

● Connection

1. Remove the top cover. (See "DISASSEMBLY PROCEDURES")
2. Connect the writing port (CB27 of DIGITAL P.C.B.) of this unit to the serial port (RS232C) of the PC with RS232C cross cable, RS232C conversion adaptor and flexible flat cable as shown below. (Fig. 1)
3. Set the switch (SW7) of RS232C conversion adaptor as shown below. (Fig. 1)

● 接続

1. トップカバーを取り外します。(“分解手順”参照)
2. 本機の書き込み用ポート (DIGITAL P.C.B. CB27) とPCのシリアルポート (RS232C) を下記のように接続します。(Fig. 1)
3. RS232C 変換アダプターのスイッチ (SW7) を下記ののように設定します。(Fig.1)

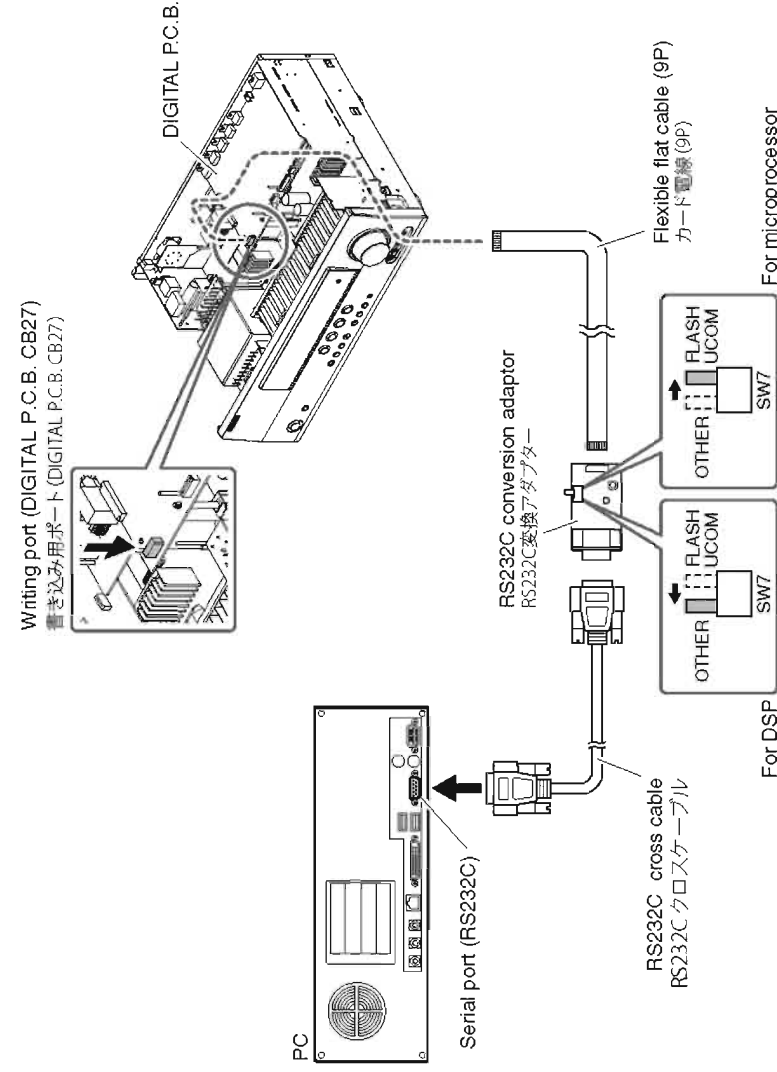


Fig. 1

● Operation Procedures

● 操作手順

Writing to the microprocessor

マイコンへの書き込み

1. With the power cable of this unit unconnected to the AC outlet, start up DSP_FLASHER_v3.0.exe.

1. 本機の電源コードをACコンセントに接続していない状態で、DSP_FLASHER_v3.0.exeを起動します。

The screen appears as shown below. (Fig. 2)

下記の画面が表示されます。(Fig. 2)

2. Click [...] and select the firmware name. (Fig. 2)

2. [...]をクリックし、書き込むファームウェアを選択します。(Fig. 2)

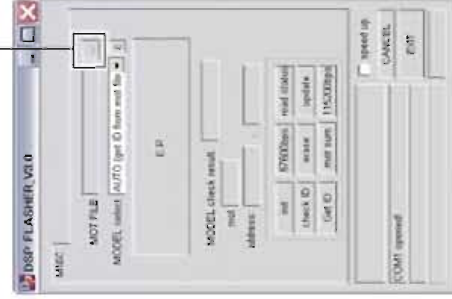
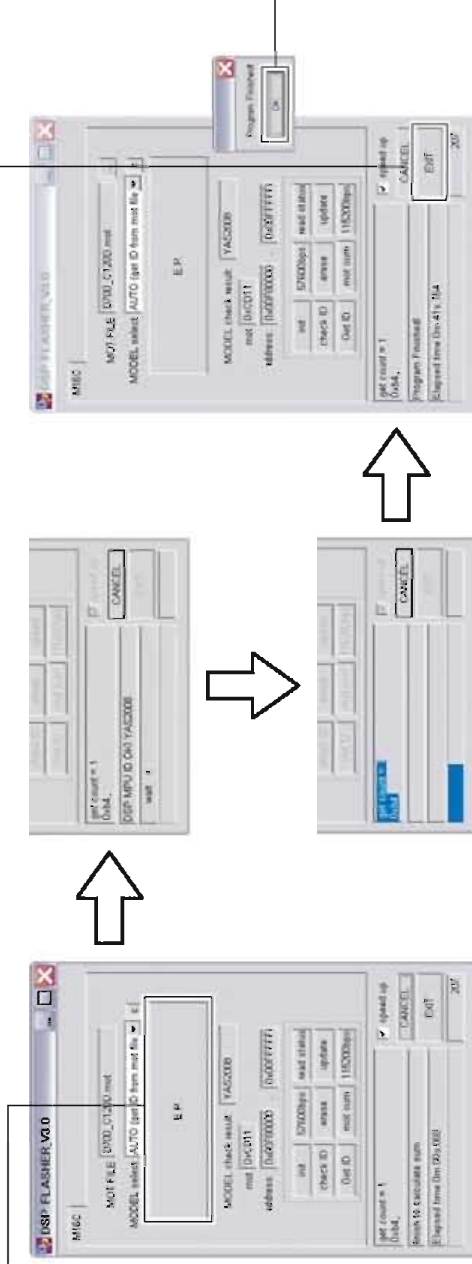


Fig. 2

3. Connect the power cable of this unit to the AC outlet.
4. Click [E.P.] to start writing. (Fig. 3)
5. When writing of the firmware is completed, "Program Finished!" is displayed. (Fig. 3)
Click [OK]. (Fig. 3)
6. Click [EXIT] to end DSP_FLASHER_v3.0.exe. (Fig. 3)



Writing being executed. / 書き込み中

Writing completed. / 書き込み完了

Fig. 3

7. Start up the self-diagnostic function and select "25. ROM VER/SUM/PORT" menu.
Using the sub-menu, have the firmware version and checksum displayed, and then check that they are the same as written ones.
* When the firmware version and checksum are different from written ones, perform the "Writing to the microprocessor" all over again.
 8. Disconnect the power cable of this unit from the AC outlet.
7. ダイアグを起動し、"25. ROM VER/SUM/PORT"メニューを選択します。
サブメニューでファームウェアのバージョンとチェックサムを表示し、それらが書き込んだものと同じであることを確認します。
* ファームウェアのバージョンとチェックサムが、書き込まれたものと異なる場合、"マイコンへの書き込み"をもう一度やり直してください。
 8. 本機の電源コードを AC コンセントから抜きます。

Writing to DSP

DSP への書き込み

1. With the power cable of this unit unconnected to the AC outlet, start up DSP_FLASHER Ver2.7.exe. The screen appears as shown below. (Fig. 4)

1. 本機の電源コードを AC コンセントに接続していない状態で、DSP_FLASHER Ver2.7.exe を起動します。下記の画面が表示されます。(Fig. 4)

2. Click [Vx61 DSP]. (Fig. 4)

2. [Vx61 DSP] をクリックします。(Fig. 4)

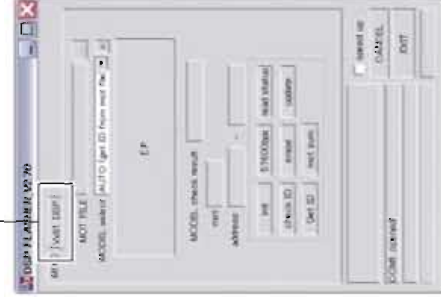


Fig. 4

3. Click [...], and select the firmware name. (Fig. 5)

3. [...] をクリックし、書き込むファームウェアを選択します。(Fig. 5)

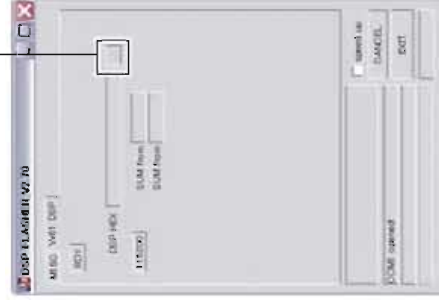


Fig. 5

4. Click [RDY]. (Fig. 6)

4. [RDY] をクリックします。(Fig. 6)



Fig. 6

5. While pressing the "DIRECT" key of this unit, connect the power cable of this unit to the AC outlet. (Fig. 7)
Writing is started automatically. (Fig. 7)

5. 本機の "DIRECT" キーを押しながら、本機の電源コードを AC コンセントに接続します。(Fig. 7)
自動的に書き込みを開始します。(Fig. 7)

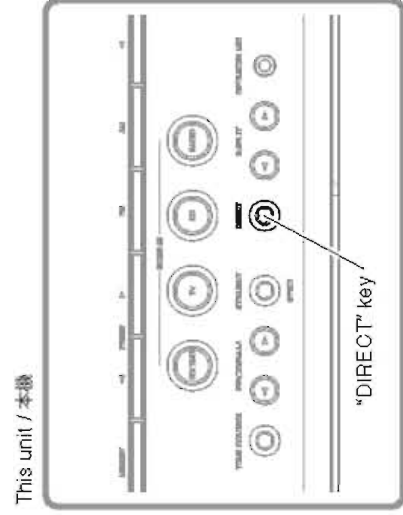


Fig. 7



Writing being executed. /
書き込み中

6. When writing of the firmware is completed, "Vx61 DSP Flash finished!" is displayed. (Fig. 3)
7. Click [EXIT] to end DSP_FLASHER_v2.7.exe. (Fig. 8)



Fig. 8

8. Start up the self-diagnostic function and select "25. ROM VER/SUM/PORT" menu. Using the sub-menu, have the firmware version and checksum displayed, and then check that they are the same as written ones.
 - * When the firmware version and checksum are different from written ones, perform the "Writing to DSP" all over again.
9. Disconnect the power cable of this unit from the AC outlet.
 - * ダイアログを起動し、「25. ROM VER/SUM/PORT」メニューを選択します。
 - サブメニューでファームウェアのバージョンとチェックサムを表示し、それらが書き込んだものと同じであることを確認します。
 - * ファームウェアのバージョンとチェックサムが、書き込まれたものと異なる場合、「DSP への書き込み」をもう一度やり直してください。

■ SELF-DIAGNOSTIC FUNCTION / ダイアグ (自己診断機能)

This unit has self-diagnostic functions that are intended for inspection, measurement and location of faulty point.

本機には、検査、測定、不良個所の発見を目的にしたダイアグ (自己診断機能) があります。

There are 25 main menu items, each of which has sub-menu items.

メインメニューは25個あり、そのそれぞれにサブメニューがあります。

Listed in the table below are main menu items and sub-menu items.

下表はダイアグメニュー一覧です。

Note that not all menu items listed will apply to the models covered in this service manual.

下表の全ダイアグメニュー項目が、このサービスマニュアル記載のモデルに適用されるとは限りません。

No.	Main menu	Sub-menu
1	BYPASS	1 ANALOG BYPASS 2 DSP BYPASS
2	RAM THROUGH	1 RAM MARGIN 2 RAM FULL ALL 3 RAM FULL CENTER 4 RAM FULL SURROUND 5 RAM FULL SURROUND BACK
3	HDMI AUDIO	1 SPDIF 2 Multi 3 DSD
4	SPEAKERS SET	1 FRNT: SML 0dB 2 CENTER: NONE 3 LFE/B: FRNT 4 Zone2 Amp ON (Not applied to these models. / このモデルには適用されません。) 5 Bi-AMP 6 TONE: MAX 7 TONE: MIN 8 SPEAKER 6 ohms
5	MULTI CH-INPUT	1 8ch INPUT 6 ohms (Not applied to these models. / このモデルには適用されません。) 2 8ch INPUT 8 ohms (Not applied to these models. / このモデルには適用されません。) 3 LIM/PLDET/THM
6	MIC CHECK	1 MIC CHECK
7	FL/OSD CHECK	1 VFD CHECK 2 VFD DISP OFF / MONITOR MUTE 3 VFD DISP ALL / COMPONENT MUTE 4 VFD DIMMER / OSD CHARACTER PATTERN 5 CHECK PATTERN / OSD CHARACTER PATTERN
8	MANUAL TEST	1 TEST ALL
9	A/D DATA CHECK	1 PS1/PS2 2 DC/TH 3 IMP/PL 4 DST/DK 5 KQ/K1
10	VIDEO CHECK	1 12C 2 DIGITAL COMPONENT 3 DIGITAL CVBS 4 DIGITAL Y/C (B, G, E, F models) 5 ANALOG BYPASS 6 TEST PATTERN (Not applied to these models. / このモデルには適用されません。) 7 VIDEO INFORMATION
11	XM STATUS (U model) (Not applied to these models. / このモデルには適用されません。)	1 1k - 1dB /44kHz 2 1k - 61dB /44kHz 3 Mute /44kHz

No.	Main menu	Sub-menu
11	XM STATUS (U model) (Not applied to these models. / このモデルには適用されません。)	4 XM Tone /44kHz 5 ISO Tone /44kHz 6 1k - 1dB /32kHz 7 1k -61dB /32kHz 8 Mute /32kHz 9 XM Tone /32 kHz 10 ISO Tone /32 kHz 11 Bus Power: OFF
12	SIRIUS (U model) (Not applied to these models. / このモデルには適用されません。)	1 SIRIUS: OK (NG) 2 SR 3 SSP (SIRIUS #0 VERSION) 4 MAC (SIRIUS #1 VERSION) 5 ADP (SIRIUS #2 VERSION) 6 PRDID 7 SEQID
13	HD RADIO (Not applied to these models. / このモデルには適用されません。)	1 HD CPU VERSION 2 D: xxxxxxxxxxxx
14	DOCK	1 DOCK
15	HDMI INFO	2 BT VERSION 1 HMN 2 HPI 3 HVN
16	HDMI SELECT	1 HDMI NONE 2 HDMI IN 1 3 HDMI IN 2 4 HDMI IN 3 5 HDMI IN 4 6 HDMI UP CONVERSION 7 HDMI UP THROUGH
17	USB (Not applied to these models. / このモデルには適用されません。)	1 USB File 1 2 USB File 2
18	IF STATUS (Not applied to these models. / このモデルには適用されません。)	1 DSP STATUS
19	BUS CHECK	1 TI BUS 2 BF LOOP (Not applied to these models. / このモデルには適用されません。)
20	NO MENU	Invalidity
21	PROTECTION HISTORY	1 HISTORY 1 2 HISTORY 2 3 HISTORY 3 4 HISTORY 4
22	NO MENU	Invalidity
23	UPDATE	1 TI FLASH BOOT (Not applied to these models. / このモデルには適用されません。)
24	FACTORY PRESET	1 PRESET INHI 2 PRESET RSRV
25	ROM VER/SUM/PORT	1 VERSION 2 ALL SUM 3 TI (DSP) FLASH VERSION 4 TI (DSP) FLASH SUM 5 XM VERSION (Not applied to these models. / このモデルには適用されません。) 6 SIRIUS VERSION (Not applied to these models. / このモデルには適用されません。) 7 MODEL/DESTINATION 8 Verify (Not applied to these models. / このモデルには適用されません。)

● Starting Self-Diagnostic Function

While pressing those 2 keys of this unit as shown in the figure below, press the "STANDBY/ON" key to turn on the power.

The self-diagnostic function mode is activated.

● ダイアグの起動

本機の下図に示す 2 つのキーを押しながら "STANDBY/ON" キーを押して電源を入れます。
ダイアグが起動します。

Keys of this unit / 本機キー



While pressing these keys, turn on the power.
これらのキーを押しながら、電源を入れます。

● Starting Self-Diagnostic Function in the protection cancel mode

If the protection function works and causes hindrance to trouble shoot, cancel the protection function as described below, and it will be possible to enter the self-diagnostic function mode.

(The protection functions other than the excess current detect function will be disabled.)

While pressing those 2 keys as shown in the figure above, press the "STANDBY/ON" key to turn on the power and keep pressing those 2 keys and "STANDBY/ON" key for 3 seconds or longer.

The self-diagnostic function mode is activated with the protection functions disabled.

In this mode, the SLEEP segment of the FL display of this unit flashes to indicate that the mode is self-diagnostic function mode with the protection functions disabled.

CAUTION!

Using this product with the protection function disabled may cause damage to itself. Use special care when using this mode.

● プロテクション解除モードでの起動

プロテクションが動作することにより、故障箇所の診断に支障をきたすような場合は、次の方法によりプロテクションを解除した状態でダイアグモードに入ることができます。

(過電流検出以外のプロテクション動作を解除する)

上図に示す 2 つのキーを押しながら "STANDBY/ON" キーを押して電源を入れ、2 つのキーと "STANDBY/ON" キーを 3 秒以上押し続けます。

プロテクション解除モードでダイアグが起動します。

このモードでは本機 FL の "SLEEP" セグメントが点滅し、プロテクションを解除した状態でのダイアグモードであることを知らせます。

注意!

プロテクションを解除した状態でのダイアグモードは、危険な状態でもプロテクションが作動しないため、動作させると、機器を破壊することがあります。このモードを使用する場合は十分注意してください。

● Canceling Self-Diagnostic Function

1. Before canceling self-diagnostic function, execute setting for FACTORY PRESET of main menu No. 24 (Memory initialization inhibited or Memory initialized).

* In order to keep the user memory stored, be sure to select PRESET INHIBITED (Memory initialization inhibited).

2. Press the "STANDBY/ON" key of this unit to turn off the power.

● ダイアグの解除

1. ダイアグを解除する前に、メインメニュー No. 24 の FACTORY PRESET (メモリーの初期化禁止 / またはメモリーの初期化) の設定をします。

※ ユーザーメモリーを保持したい場合は、必ず PRESET INHIBIT (メモリー初期化禁止) を選択してください。

2. 本機の "STANDBY/ON" キーを押して電源を切ります。

● Display provided when Self-Diagnostic Function started

The FL display of this unit displays the protection function history data then the main menu (sub-menu “1. ANALOG BYPAS” of main menu No. 1 BYPASS) a few seconds later.

When there is no history of protection function:

Opening message / オープニング表示

After a few seconds / 数秒後



Main menu display / メインメニュー表示

プロテクション履歴がない場合:

● ダイアグ起動時の表示

本機のFLディスプレイにプロテクション履歴情報が表示されます。数秒後、メインメニューNo.1 BYPASSのサブメニュー“1. ANALOG BYPAS”が表示されます。

When there is a history of protection function:

When there is a history of protection function due to excess current
過電流によるプロテクション履歴がある場合



AD value when the protection function is working/
電圧のAVD交換値

プロテクション履歴がある場合:

Cause: An excessive current flowed through the power amplifier.

Supplementary information: As current of the power amplifier is detected, the abnormal channel can be identified by checking the current detect transistor.

Turning on the power without correcting the abnormality will cause the protection function to work immediately and the power supply will instantly be shut off.

原因: パワーアンプに過電流が流れた。

補足: パワーアンプの電流を検出していますので、電流検出トランジスタをチェックすれば異常チャンネルが特定できます。

異常状態のまま電源を入れると、瞬時にプロテクションが働き、すぐに電源が切れます。

Note)

- Applying the power to this unit without correcting the abnormality can be dangerous and cause additional circuit damage. To avoid this, if protection function has been activated 3 times continuously, the power will not turn on even when the “STANDBY/ON” key is pressed. In order to turn on the power again, disconnect the power cable of this unit from the AC outlet once and then reconnect it again.
- The output transistors in each amplifier channel should be checked for damage before applying power of this unit.
- Amplifier current should be monitored by measuring DC voltage across the emitter resistors for each channel.

注意!

- 異常状態のまま本機の電源を入れると、危険な状態になり、さらに回路が損傷を受ける原因になります。それを避けるために、プロテクションが連続して3回働いた場合、それ以降“STANDBY ON/OFF”キーを押しても電源が入らなくなります。再度電源を入れる場合、一度本機の電源コードをAC電源コンセントから抜いて接続し直してください。
- 本機の電源をいれる前に、各アンプのチャンネル内の出力トランジスタに損傷がないかチェックしてください。
- アンプの電流は、各チャンネルのエミッターの抵抗器間電圧を測定することによりモニターしてください。

When there is a history of protection function due to abnormal DC output
DC出力異常によるプロテクション履歴がある場合

PRD PR1:xxx

AD value when the protection function is working/
電圧の A/D 変換値

Cause: DC output from the power amplifier is abnormal.

Supplementary information: The protection function worked due to a DC voltage appearing at the speaker terminal.

A cause could be a defect in the amplifier.

If the power is turned on with the abnormality unsolved, the protection function works in about 3 seconds to turn off the power.

原因: パワーアンプからの DC 出力が異常。

補足: パワーアンプの不具合により、スピーカー端子に直流電圧が加えられたために、プロテクションが働いたことを示します。

異常状態のまま電源を入れると、3 秒後にプロテクションが働き、電源が切れます。

When there is a history of protection function due to abnormal
voltage in the power supply section
電源部の電圧異常によるプロテクション履歴がある場合

PRV PR1:xxx

AD value when the protection function is working/
電圧の A/D 変換値

Cause: The voltage in the power supply section is abnormal.

Supplementary information: The protection function worked due to a defect or overload in the power supply.

If the power is turned on with the abnormality unsolved, the protection function works in about 1 second to turn off the power.

原因: 電源部の電圧が異常。

補足: 電源部の不具合により、電源電圧が正常な範囲から外れたために、プロテクションが働いたことを示します。

異常状態のまま電源を入れると、1 秒後にプロテクションが働き、電源が切れます。

When there is a history of protection function due to excessive heat sink temperature
ヒートシンクの異常温度によるプロテクション履歴がある場合

THM PRT:xxx

AD value when the protection function is working/
電圧のAVD 変換値

Cause: The temperature on the heat sink is excessive.
Supplementary information: The protection function worked due to the temperature limit being exceeded. Causes could be poor ventilation or a defect related to the thermal sensor.
If the power is turned on with the abnormality unsolved, the protection function works in about 1 second to turn off the power.

原因: ヒートシンクの温度が異常。
補足: ヒートシンクの温度が制限値を超えたために、プロテクションが働いたことを示します。
異常状態のまま電源を入れると、1秒後にプロテクションが働き、電源が切れます。
※ 各プロテクションの検出に関しては、後述のメニューメニューを参照してください。

* For detection of each protection function, refer to main menu described later.

● **History of protection function**

When the protection function has worked, its history is stored in memory with a backup. Even if no abnormality is noted while servicing the unit, an abnormality which has occurred previously can be defined as long as the backup data has been stored. The history of the protection function is cleared when self-diagnostic function is cancelled by selecting PRESET RESERVED (Memory initialized) of main menu No. 24 or when the backup data is erased.

● **プロテクションの履歴**

プロテクションが働いた場合、履歴をバックアップして記憶しています。サービスのときに異常が認められなくても、バックアップが残っていれば、お客様のところでも、異常を区別できます。メインメニュー No. 24 PRESET RESERVED (メモリーの初期化) を選んでダイアグを解除した場合、またはバックアップが消えた場合にプロテクションの履歴はクリアされます。

● Operation procedure of Main menu and Sub-menu

There are 25 main menu items, each of them having sub-menu items.

Main menu selection

Select the main menu using "SCENE TV" (forward) and "SCENE BD/DVD" (reverse) keys.

Sub-menu selection

Select the sub-menu using "SCENE RADIO" (forward) and "SCENE CD" (reverse) keys.

● メインメニューとサブメニューの操作

ダイアグにはNo. 1～25のメインメニューがあり、それぞれにサブメニューがあります。

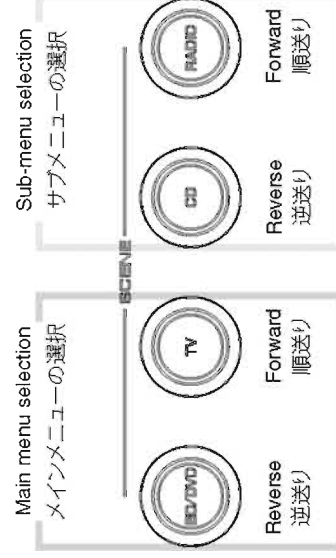
メインメニューの選択

"SCENE TV" (順送り)、"SCENE BD/DVD" (逆送り) キーで選択します。

サブメニューの選択

"SCENE RADIO" (順送り)、"SCENE CD" (逆送り) キーで選択します。

Keys of this unit / 本機キー



● Functions in Self-Diagnostic Function mode

In addition to the self-diagnostic function menu items, functions as listed below are available.

- Power ON/OFF
- Master volume
- Muting
- Input select
- Audio select
- PROGRAM select
- Tone control
- DIRECT ON/OFF

* Functions related to the tuner and the set menu are not available.

● ダイアグ中の機能

ダイアグメニューの他に、以下の機能が動作します。

- 電源 オン/オフ
- マスターボリューム
- ミューティング
- インプットセレクト
- オーディオセレクト
- プログラムセレクト
- トーンコントロール
- DIRECT ON/OFF

※ チューナー関連、セットメニュー関連は機能しません。

● Initial settings used to start Self-Diagnostic Function

The following initial settings are used when starting self-diagnostic function.

When self-diagnostic function is canceled, these settings are restored to those before starting self-diagnostic function.

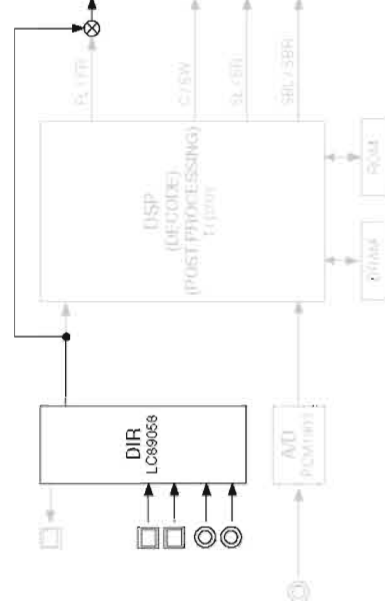
- Master volume : -20 dB
- Input : AV5
- Main menu : 1. ANALOG BYPASS
- Speaker setting : LARGE, Bass out to SWFR (All channels)
- Speaker impedance : 8 ohms position
- OSD : ON

● ダイアグ開始時の初期設定

ダイアグ開始時に以下のような設定になります。ダイアグ解除時にはダイアグ開始前の状態に戻ります。

- マスターボリューム : -20 dB
- インプット : AV5
- メインメニュー : 1. ANALOG BYPASS
- スピーカー設定 : LARGE, Bass out to SWFR (すべてのチャンネル)
- スピーカーインピーダンス : 8 オーム
- OSD : オン

DSP BYPASS



(Shaded items not used in this example)

2. RAM THROUGH

Using the sub-menu, it is possible to select MARGIN output or FULL BIT output.

2. RAM THROUGH

サブメニューにより、MARGIN/FULL BITが選択可能です。

RAM MARGIN

The audio signal is output including the head margin.

RAM MARGIN

音声信号がヘッドマージンを含んで出力されます。

2. RAM MARGIN

INPUT: AV5 ANALOG
SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

Input level	Volume	SPEAKER OUT			SUBWOOFER OUTPUT
		FRONT L/R	CENTER	SURROUND L/R	
Both ch, -20 dBm	+6.5 dB	+15.0 dBm	+15.0 dBm	+15.0 dBm	-6.0 dBm

RAM FULL BIT

The audio signal is output in digital full bit without including the head margin.

The SUBWOOFER signal is output but not in digital full bit.

RAM FULL BIT

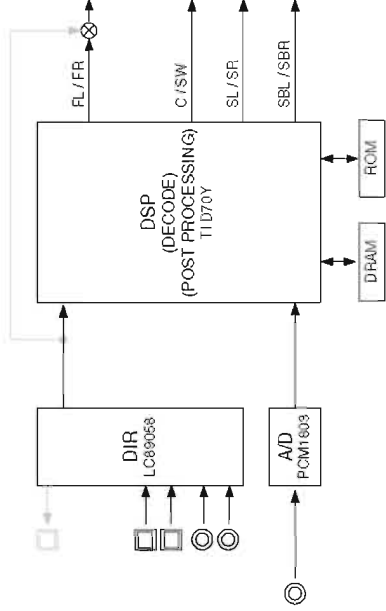
音声信号がヘッドマージンを含まず、デジタルフルビットで出力されます。

SUBWOOFERは出力されますが、デジタルフルビットではありません。

2. RAM FULL ALL

INPUT: AV5 ANALOG
SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

Input level	Volume	SPEAKER OUT				SUBWOOFER OUTPUT
		FRONT L/R	CENTER	SURROUND L/R	SURROUND BACK L/R	
Both ch, -20 dBm	+6.5 dB	+15.0 dBm	+15.0 dBm	+15.0 dBm	+15.0 dBm	-6.0 dBm



(Shaded items not used in this example)

When input source is stereo, signal is assigned as below.

2 ch 信号入力時、以下のように信号が振り分けられて出力されます。

- Front L → Front L / Center / Surround L / Surround Back L, R
- Front R → Front R / Surround R
- Front L +10 dB → SWFR

RAM FULL CENTER

The audio signal is output to only CENTER in digital full bit without including the head margin.

RAM FULL CENTER

音声信号がヘッドマージンを含まず、デジタルフルビットで CENTER のみへ出力されます。

2. RAM FULL C

INPUT: AV5 ANALOG

SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

Input level	Volume	SPEAKER OUT				SUBWOOFER OUTPUT
		FRONT L/R	CENTER	SURROUND L/R	SURROUND BACK L/R	
Both ch, -20 dBm	+6.5 dB	-∞	+15.0 dBm	-∞	-∞	-∞

RAM FULL SURROUND

The audio signal is output to only SURROUND L/R in digital full bit without including the head margin.

RAM FULL SURROUND

音声信号がヘッドマージンを含まず、デジタルフルビットで SURROUND L/R のみへ出力されます。

2. RAM FULL SUR

INPUT: AV5 ANALOG

SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

Input level	Volume	SPEAKER OUT				SUBWOOFER OUTPUT
		FRONT L/R	CENTER	SURROUND L/R	SURROUND BACK L/R	
Both ch, -20 dBm	+6.5 dB	-∞	-∞	+15.0 dBm	-∞	-∞

RAM FULL SURROUND BACK

The audio signal is output to only SURROUND BACK L/R in digital full bit without including the head margin.

RAM FULL SURROUND BACK

音声信号がヘッドマージンを含まず、デジタルフルビットで SURROUND BACK L/R のみへ出力されます。

2. RAM FULL SB

INPUT: AV5 ANALOG

SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

Input level	Volume	SPEAKER OUT				SUBWOOFER OUTPUT
		FRONT L/R	CENTER	SURROUND L/R	SURROUND BACK L/R	
Both ch, -20 dBm	+6.5 dB	-∞	-∞	-∞	+15.0 dBm	-∞

3. HDMI AUDIO

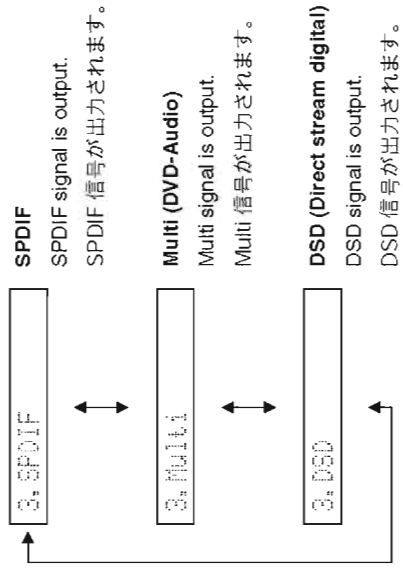
Using the sub-menu, the audio signals input to HDMI IN are selected and output.

- * When selecting "DSD", be sure to connect an HDMI unit equipped with DSD output function to this unit.

3. HDMI AUDIO

サブメニューにより、HDMI IN に入力された音声信号が選択、出力されます。

- ※ "DSD" を選択する場合、必ず DSD 出力が可能な HDMI 機器を接続してください。



4. SPEAKER SET

The analog switch settings for each sub-menu are as shown in the table below.

4. SPEAKER SET

各サブメニューにおけるアナログスイッチの設定は以下の通りです。

	FRONT	CENTER	SURROUND	SURROUND BACK	SUBWOOFER
FRNT : SML 0dB	SMALL	LARGE	LARGE	LARGE	SWFR
CENTER : NONE	LARGE	NONE	LARGE	LARGE	SWFR
LFE/B : FRNT	LARGE	SMALL	SMALL	SMALL	FRONT
Zone2 Amp ON	—	—	—	—	—
Bi-AMP	LARGE	LARGE	LARGE	— (*)	SWFR
ZONE : MAX	LARGE	LARGE	LARGE	LARGE	SWFR
ZONE : MIN	LARGE	LARGE	LARGE	LARGE	SWFR
SPEAKER 6 ohms	LARGE	LARGE	LARGE	LARGE	SWFR

(*) Bi-AMP: LARGE

LARGE: This mode is used for a speaker with high bass reproduction performance (a large unit).

LARGE: 低音再生能力の高い（ユニットの大きい）スピーカーを使用するモードです。全帯域が出力されます。

Full bandwidth signals are output.

SMALL: This mode is used for a speaker with low bass reproduction performance (a small unit).

SMALL: 低音再生能力の低い（ユニットの小さい）スピーカーを使用するモードです。90 Hz以下がLFE/BASSで指定したチャンネルへミックスされます。

NONE: This mode is used for no center speaker. The center content is reduced by 3 dB and distributed to FRONT L/R.

NONE: センタースピーカーを使用しないモードです。

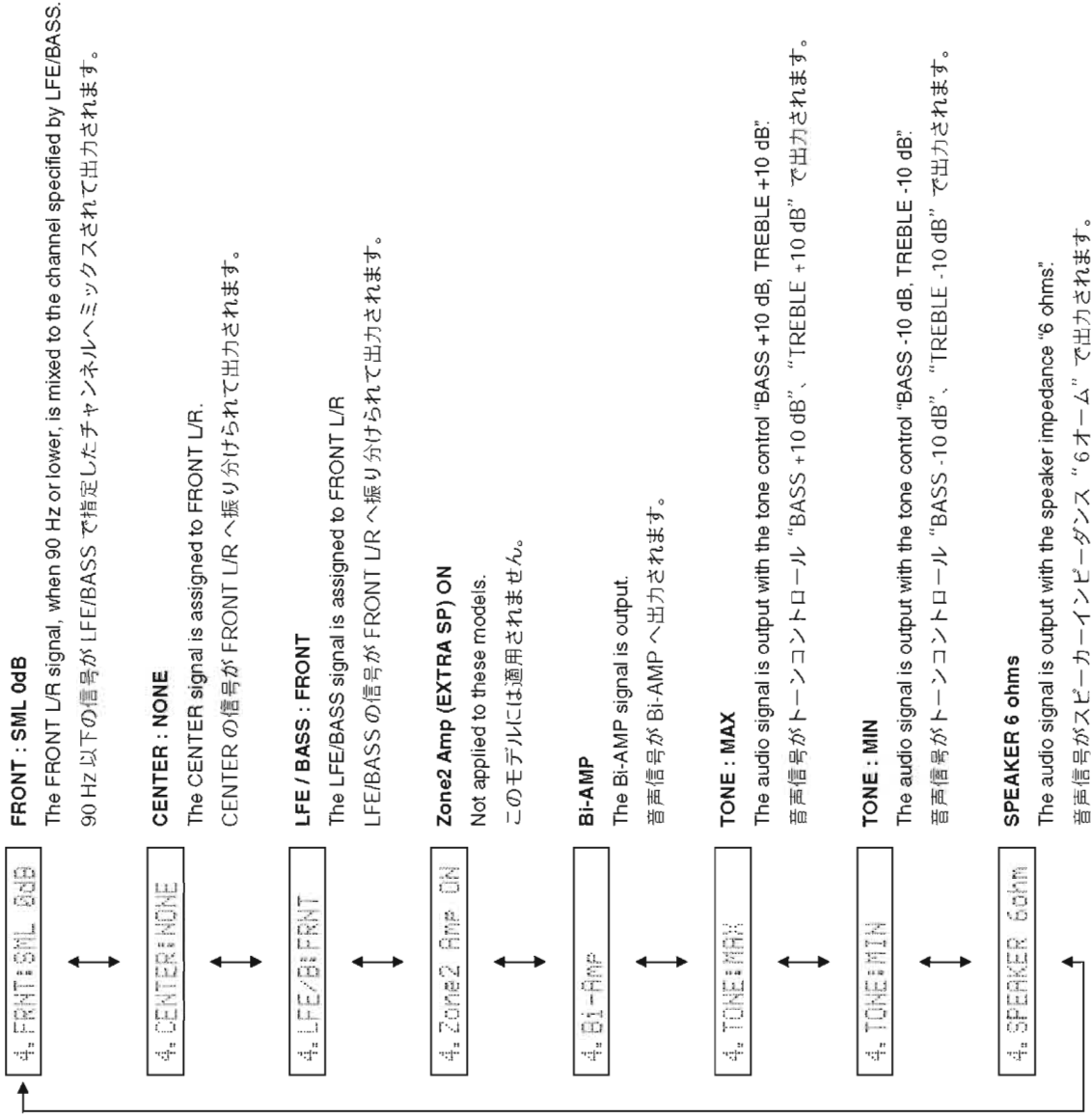
センター成りは-3 dBされて、FRONT L/Rへ振り分けられます。

SWFR: LFE of 5.1 ch signal or LFE/BASS lower than 90 Hz is output through SUBWOOFER OUT.

SWFR: 5.1 ch 信号のLFEまたは90 Hz以下のLFE/BASSがSUBWOOFER OUTへ出力されます。

FRONT: LFE of 5.1 ch signal or LFE/BASS lower than 90 Hz is distributed to FRONT L/R.

FRONT: 5.1 ch 信号のLFEまたは90 Hz以下のLFE/BASSをFRONT L/Rへ振り分けられます。



INPUT: AV5 ANALOG
SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

Sub-menu	Input level	Volume	SPEAKER OUT				
			FRONT L/R	CENTER	SURROUND L/R	SURROUND BACK L/R	SUBWOOFER OUTPUT
FRNT : SML 0dB	Both ch, -20 dBm	+6.5 dB	+15.0 dBm	+15.0 dBm	+15.0 dBm	+15.0 dBm	-4.0 dBm
CENTER : NONE	Both ch, -20 dBm	+6.5 dB	+20.0 dBm	-∞	+15.0 dBm	+15.0 dBm	+15.0 dBm
LFE/B : FRNT (50 Hz)	Both ch, -20 dBm	+6.5 dB	-∞	+15.0 dBm	+15.0 dBm	+15.0 dBm	-∞
Zone2 Amp ON	Both ch, -20 dBm	+6.5 dB	+15.0 dBm	+15.0 dBm	+15.0 dBm	-∞	-7.0 dBm
Bi-AMP	Both ch, -20 dBm	+6.5 dB	+15.0 dBm	+15.0 dBm	+21.0 dBm	+15.0 dBm	-7.0 dBm
TONE : MAX	Both ch, -20 dBm	+6.5 dB	+16.0 dBm	+15.0 dBm	+15.0 dBm	+15.0 dBm	-7.0 dBm
TONE : MIN	Both ch, -20 dBm	+6.5 dB	+14.0 dBm	+15.0 dBm	+15.0 dBm	+15.0 dBm	-7.0 dBm
SPEAKER 6 ohms	Both ch, -20 dBm	+6.5 dB	+15.0 dBm	+15.0 dBm	+15.0 dBm	+15.0 dBm	-7.0 dBm

5. MULTI CH-INPUT

8 ch INPUT 6 ohms

Not applied to these models.

5. MULTI CH-INPUT

8 ch INPUT 6 ohms

このモデルには適用されません。

5.8ch INPUT_6D

INPUT: MULTI CH INPUT

SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

Input level	Volume	SPEAKER OUT				SUBWOOFER OUTPUT
		FRONT L/R	CENTER	SURROUND L/R	SURROUND BACK L/R	
Both ch, -20 dBm	+6.5 dB	—	—	—	—	—

8 ch INPUT 8 ohms

Not applied to these models.

8 ch INPUT 8 ohms

このモデルには適用されません。

5.8ch INPUT_6D

INPUT: MULTI CH INPUT

SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

Input level	Volume	SPEAKER OUT				SUBWOOFER OUTPUT
		FRONT L/R	CENTER	SURROUND L/R	SURROUND BACK L/R	
Both ch, -20 dBm	+6.5 dB	—	—	—	—	—

LIM / PLDET / THM

LIM: Setting value of LIM (Limiter control)

* Do not change the value settings because this menu is only for the use of development staff.

PLDET: Power limiter detection

The A/D conversion value during operation is displayed.

(Reference voltage: 3.3 V=255)

THM: Temperature protection detection

The A/D conversion value during operation is displayed.

(Reference voltage: 3.3 V=255)

LIM / PLDET / THM

LIM: LIM (リミッター制御) の設定値

※ 開発スタッフ専用メニューですので、設定値の変更は行わないでください。

PLDET: パワーリミッターの検出

動作時の A/D 変換値が表示されます。

(基準電圧：3.3 V = 255)

THM: 温度プロテクションの検出

動作時の A/D 変換値が表示されます。

(基準電圧：3.3 V = 255)



6. MIC CHECK

The signals input through the microphone are output to only FRONT L via A/D and D/A.

6. MIC CHECK

マイクから入力された信号が A/D - D/A 経由で FRONT L のみへ出力されます。

6.MIC CHK

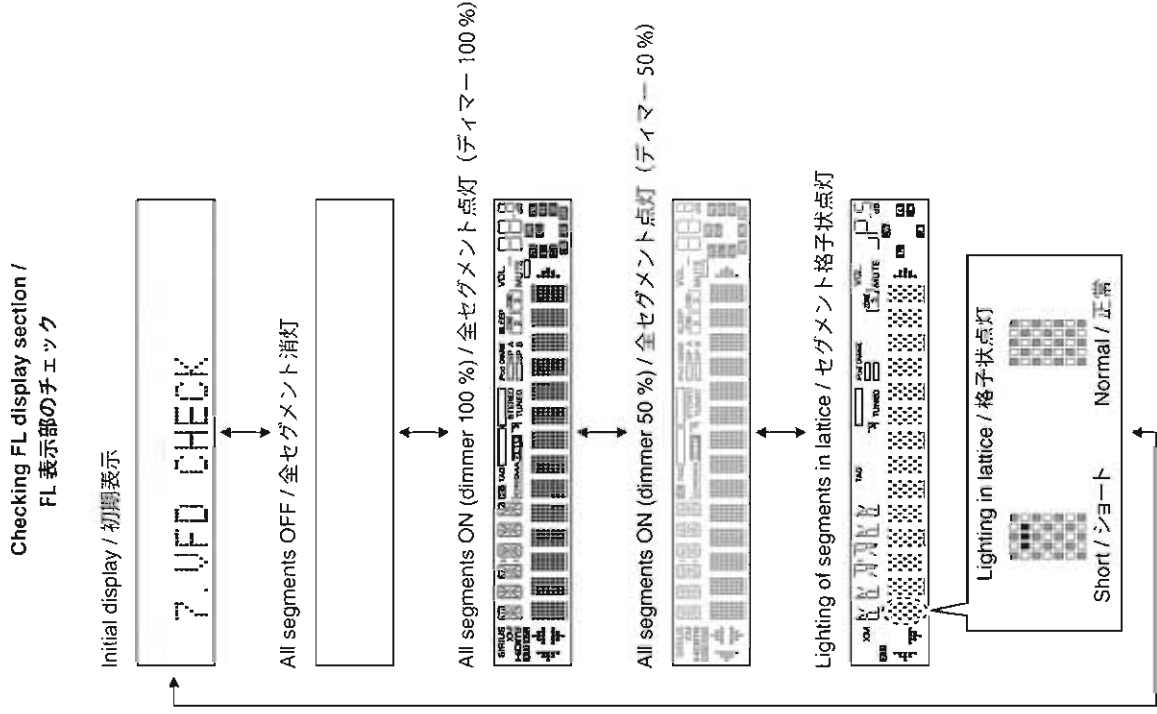
7. FL/OSD CHECK

This menu is used to check the FL display and video control sections. When checking the video control section, connect a TV monitor to this unit with a component video cable, S video cable and video pin cable.

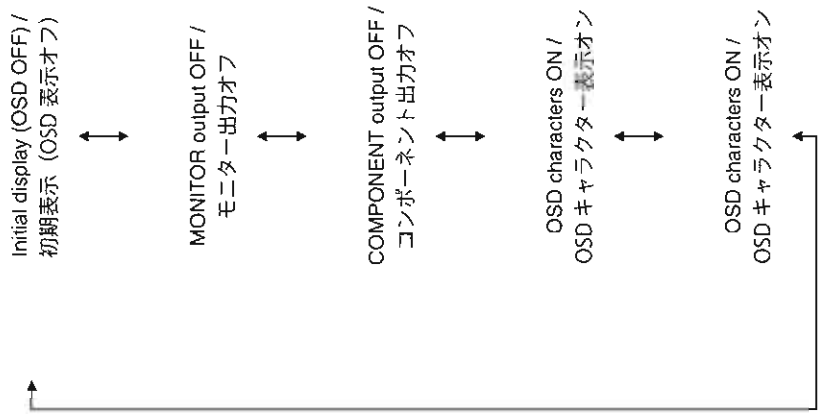
Using the sub-menu, the FL display section or video control section varies as shown below.

7. FL/OSD CHECK

FL表示部および映像表示部のチェックプログラムです。映像制御部をチェックする場合には、TVモニターと本機をコンポーネント/Dビデオケーブル、Sビデオケーブル、ビデオ用ピンケーブルで接続します。サブメニューにより、FL表示部と映像表示部の選択が以下のように運動して変わります。



Check of the Video control section. (Monitor out) / 映像表示部のチェック (モニター出力)



OSD characters / OSD キャラクター表示

OSD 256 CHAR PATTERN

```

. ! " # $ % & ' ( ) * + , - . /
: ; < = > ? @ A B C D E F G
H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^
_ ` a b c d e f g h i j k l m n o p q r s t u v w
x y z { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ±
² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿ À Á Â Ã Ä Å Æ Ç È É
Ê Ë Ì Í Î Ï Ð Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ à á â ã
ä å æ ç è é ê ë ì í î ï ð ñ ò ó ô õ ö ÷ ø ù ú û ý þ

```

Segment conditions of the FL driver and the FL tube are checked by turning ON and OFF all segments. Next, the operation of the FL driver is checked by using the dimmer control. Then a short between segments next to each other is checked by turning ON and OFF all segments alternately (in lattice).
(In the above example, the segments in the second row from the top are shorted.)

全セグメント消灯・全セグメント点灯により FL ドライバー、FL 管のセグメントの不良を確認します。次に、ディマークントロールによって FL ドライバーの動作チェックを行います。さらに全セグメントを交互（格子状）に点灯／消灯することで、隣り合うセグメントのショートをチェックします。
(前記の例は、上から 2 列目のセグメントがショートしています。)

8. MANUAL TEST

The noise generator with a built-in DSP outputs the test noise through the channels specified by using the sub-menu.

The noise frequency for LFE is 30 to 80 Hz. Other than that, the noise frequency is 500 to 2 kHz.

8. MANUAL TEST

DSP 内蔵のノイズ発生回路によって、サブメニューで指定したチャンネルへテストノイズが出力されます。

LFE 用のノイズ周波数は 30～80Hz、それ以外は、ノイズ周波数 500～2kHz となります。

TEST ALL

The test noise is output from all channels.

TEST ALL

全チャンネルからテストノイズが出力されます。

8. TEST ALL

9. A/D DATA CHECK

This menu is used to display the A/D conversion value of the microprocessor which detects panel keys of this unit and protection functions by using the sub-menu.

When KO/K1 menu is selected, keys become non-operable due to detection of the values of all keys.

In order to turn on the power again, disconnect the power cable of this unit from the AC outlet once and then reconnect it again.

* The figures in the diagram are given as reference only.

9. A/D DATA CHECK

本機パネルキー、プロテクションなどを検出して、マイコンのA/D変換値を、サブメニューで表示します。

K0/K1のメニューにすると、全キーの値を検出するためキー操作はできなくなります。

再度電源を入れる場合、一度本機の電源コードをAC電源コンセントから抜いて接続し直してください。

※ 図中の数値は参考例です。

PS1/PS2

PSx: Power supply voltage protection detection

PS1

Voltage detects: AC_BL, AC_12, AC_5, ±12 and +5V

Normal value: 38 to 128

(Reference voltage: 3.3 V=255)

PS2

Voltage detects: -5 and +5V

Normal value: 31 to 125

(Reference voltage: 3.3 V=255)

* If PS1 and PS2 are out of the normal value range, the protection function works to turn off the power.

PS1/PS2

PSx: 電源電圧プロテクションの検出

PS1

検出電圧: AC_BL, AC_12, AC_5, ±12, +5V

正常値: 38 ~ 128

(基準電圧: 3.3 V = 255)

PS2

検出電圧: -5V, +5V

正常値: 31 ~ 125

(基準電圧: 3.3 V = 255)

※ PS1 および PS2 は正常値を外れるとプロテクションが働き、電源が切れます。

PS1:089 2:078

DC/TH

DC: Power amplifier DC (DC voltage) output is detected.
Normal value: 23 to 70
(Reference voltage: 3.3 V=255)

TH: Temperature on the heat sink is detected.
Normal value: 0 to 124
(Reference voltage: 3.3 V=255)

* If DC and TH are out of the normal value range, the protection function works to turn off the power.

DC/TH

DC: パワーアンプDC (直流電圧) 出力の検出
正常値: 23～70
(基準電圧: 3.3 V = 255)

TH: ヒートシンク温度の検出
正常値: 0～124
(基準電圧: 3.3 V = 255)

※ DCおよびTHは正常値を外れるとプロテクト機能が働きます。

DC:046 TH:111

IMP/PL

IMP: 8 or 6 ohms impedance setup detection

IMP 8: 8 ohms setting

IMP 6: 6 ohms setting

PL: PLDET (Power amplifier output voltage detection)
The power amplifier output voltage is detected and the power amplifier input voltage is controlled according to the detected output voltage.
(Reference voltage: 3.3V=255)

TH/PL

IMP: インピーダンス設定の検出

(このモデルには適用されません。)

PL: PLDET (パワーアンプ出力電圧の検出)
パワーアンプ出力電圧を検出して、パワーアンプ入力電圧を制御します。
(基準電圧: 3.3 V = 255)

IMP:8 PL:255

U, C, T, K, A, B, G, E, F models (Reference voltage: 3.3 V=255)

	During normal operation	Value for starting limiter operation	Value for canceling limiter operation
PLDET (8 ohms/6 ohms)	255 / 255	87 / 146	125 / 171
LIM (Limiter control)	H	L	H

R, L models (Reference voltage: 3.3 V=255)

	During normal operation	Value for starting limiter operation	Value for canceling limiter operation
PLDET (8 ohms/6 ohms)	255 / 255	100 / 100	131 / 131
LIM (Limiter control)	H	L	H

J model (基準電圧: 3.3 V = 255)

	通常値	リミッタ動作開始値	リミッタ動作解除値
PLDET (8 ohms/6 ohms)	255 / 255	100 / 100	131 / 131
LIM (リミッター制御)	H	L	H

DST/DK

DST: Destination detection
(Reference voltage: 3.3 V=255)

DK: DOCK type detection
(Reference voltage: 3.3 V=255)

DST/DK

DST: 仕向け先の検出
(基準電圧：3.3 V = 255)

DK: DOCK タイプの検出
(基準電圧：3.3 V = 255)

DST:027 DK:255

Destination detection for AD port
Pull-up resistance 10 k-ohms

Ohm (R3809 VIDEO PCB)	0.0 k	1.2 k	2.7 k	4.7 k	6.8 k	10.0 k	15.0 k	47.0 k	100.0 k
A/D value (3.3 V=255)	0 - 15	15 - 46	46 - 69	69 - 92	92 - 115	115 - 139	139 - 177	185 - 224	224 - 247
DEST (139 pin)	J	U	C	R	T	K	A	B, G, E, F	L

DOCK detection for AD port (IC20 Microprocessor pin no. 128)

Pull-up resistance 10 k-ohms

DOCK type (DKID 141 pin)	Bluetooth	iPod	No connect
A/D value (3.3 V=255)	5 - 25	120 - 140	255

K0/K1

K0/K1: KEY0/KEY1 (Panel key of this unit)

When the A/D conversion value of the panel key becomes out of the specified range (standard value ± 4), normal operation will not be available. In this case, check the constant of voltage dividing resistor, solder condition, etc. Refer to the table below.

(Reference voltage: 3.3 V=255)

K0:255 K1:255

K0/K1

K0/K1: KEY0/KEY1 (本機パネルキー)

パネルキーの A/D 値が規定範囲（基準値 ± 4 ）から外れると、正常な動きをしません。下表をご覧になり、各キーの分圧抵抗の定数、ハンダ不良等の確認をしてください。

(基準電圧：3.3 V = 255)

Display / 表示	KEY0 (133 pin)
0 - 11	SCENE RADIO
12 - 32	SCENE CD
33 - 54	SCENE TV
55 - 75	SCENE BD/DVD
76 - 95	—
96 - 118	—
119 - 142	PROGRAM \blacktriangleright
143 - 162	PROGRAM \blacktriangleleft
181 - 197	STANDBY/ON
198 - 229	TONE CONTROL
255	KEY OFF

Display / 表示	KEY1 (134 pin)
0 - 11	DIRECT
12 - 32	STRAIGHT
33 - 54	INFO
55 - 77	MEMORY
78 - 98	PRESET \blacktriangleleft
99 - 120	PRESET \blacktriangleright
121 - 143	CATEGORY \blacktriangleleft FM
144 - 165	CATEGORY \blacktriangleright AM
166 - 185	TUNING CH \blacktriangleleft
186 - 205	TUNING CH \blacktriangleright
206 - 225	INPUT \blacktriangleleft
226 - 245	INPUT \blacktriangleright
255	KEY OFF

10. VIDEO CHECK

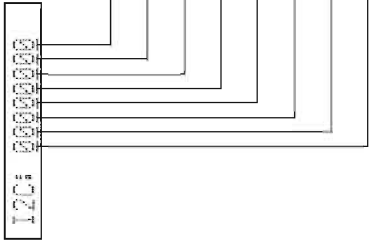
10. VIDEO CHECK

I2C check

The I2C (Inter integrated circuit) bus line connection is checked.

I2C check

I2C (Inter integrated circuit) bus line connection is checked.



0 : No error detected / 不良検出なし

1 : An error is detected / 不良検出あり

0 bit : --

1 bit : --

2 bit : VIDEO DECODER (IC7, DIGITAL P.C.B.)

3 bit : HDMI TRANSMITTER (IC7, DIGITAL P.C.B.)

4 bit : HDMI RECEIVER (IC4, DIGITAL P.C.B.)

5 bit : HDMI CEC (Including IC4, DIGITAL P.C.B.)

6 bit : --

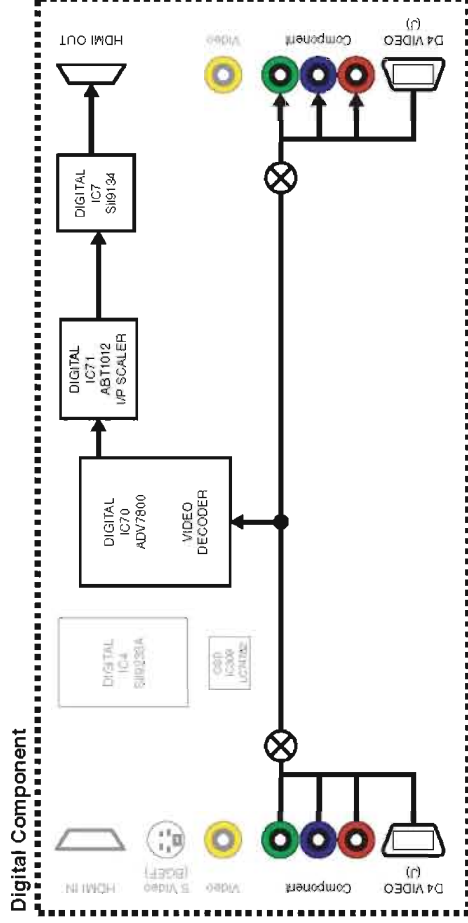
7 bit : --

Digital component

The video signal is converted and output as shown below.

Digital component

映像信号が以下のように変換され、出力されます。



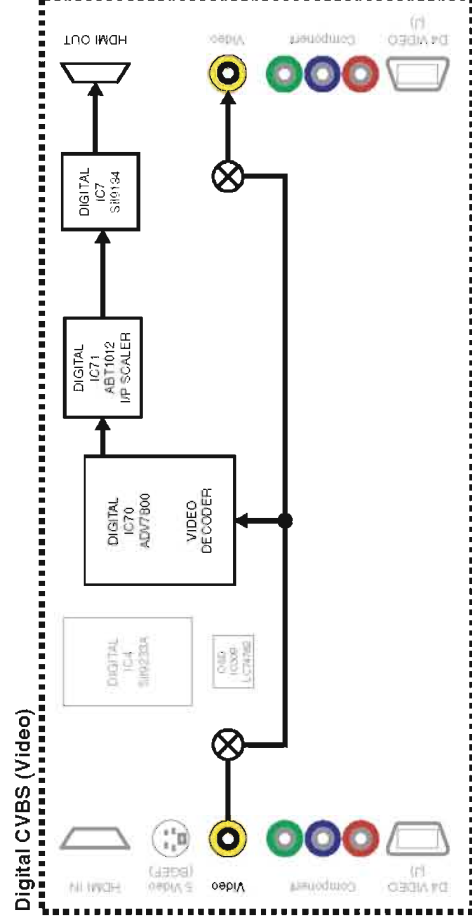
Digital CVBS (Video)

The video signal is converted and output as shown below.

Digital CVBS (Video)

映像信号が以下のように変換され、出力されます。

DIGITAL CVBS



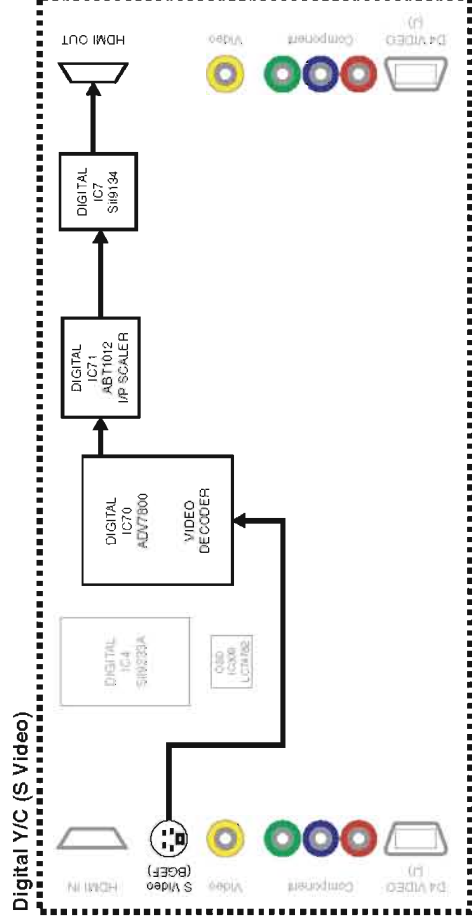
Digital CVBS (Video)

Digital Y/C (S-Video) (B, G, E, F models)

The video signal is converted and output as shown below.

Digital Y/C (S-Video) (B, G, E, F models)

DIGITAL Y/C



Digital Y/C (S-Video)

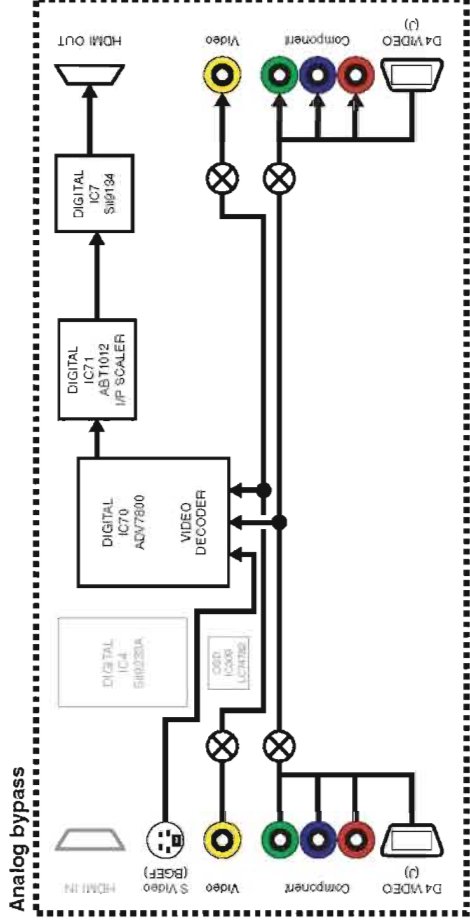
Analog bypass

The video signal is converted and output as shown below.

Analog bypass

映像信号が以下のように変換され、出力されます。

ANALOG BYPASS



Test pattern

Not applied to these models.

Test pattern

このモデルには適用されません。

TEST PATTERN

Video information

The information of input video signal is displayed.

Video information

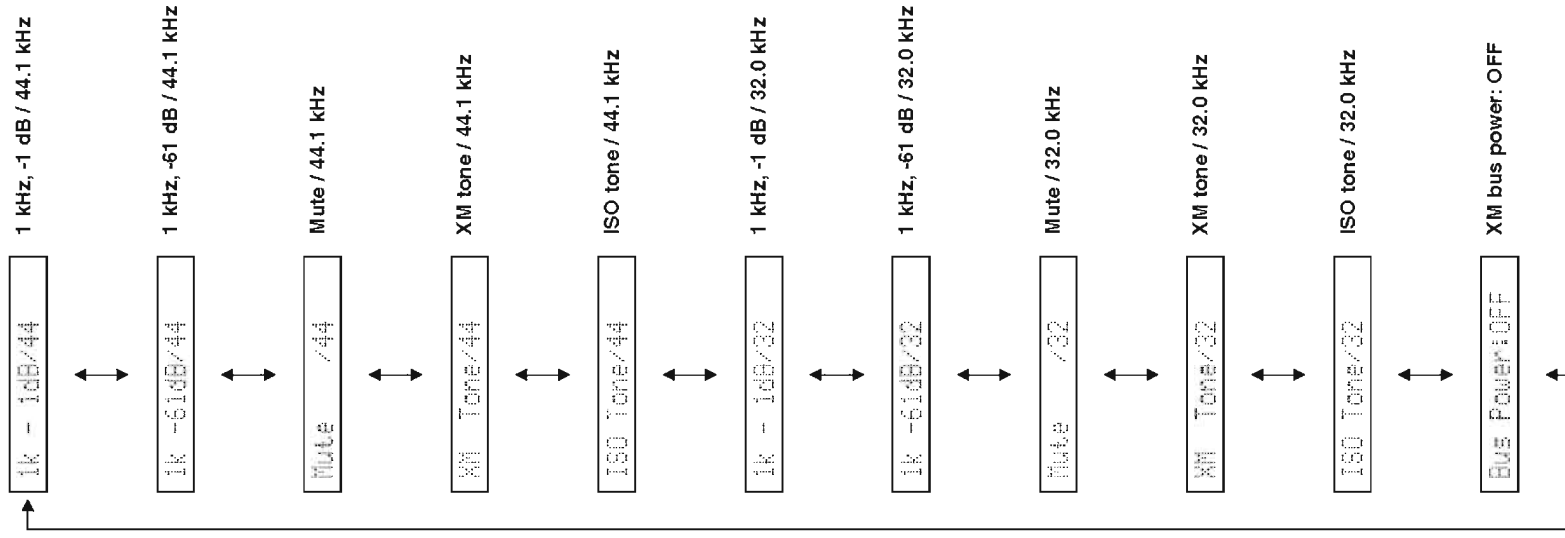
入力されている映像信号の情報が表示されます。

Example / 例

VIDEO IN 480i

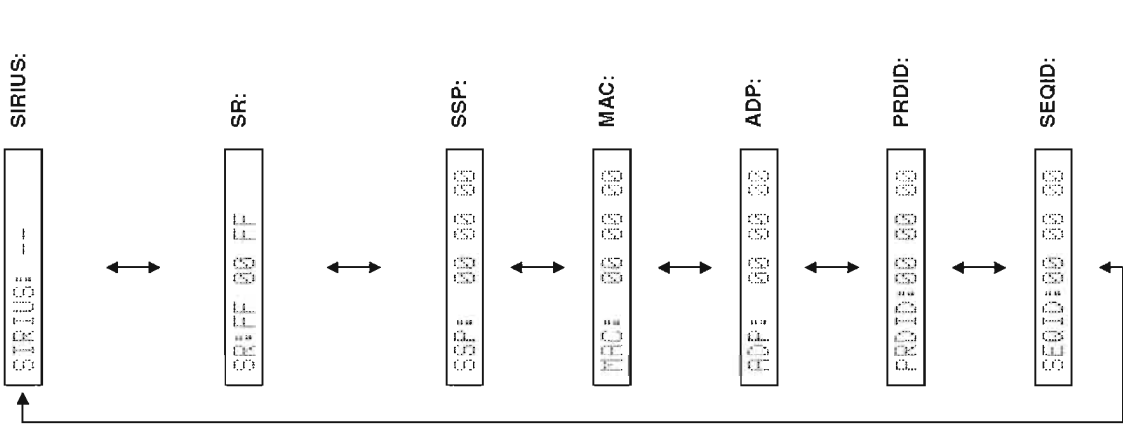
11. XM STATUS (U model)

Not applied to these models:



12. SIRIUS (U model)

Not applied to these models.



13. HD RADIO (U model)

Not applied to these models.

CPU version

HD CPU V:

DSP version

D:

14. DOCK

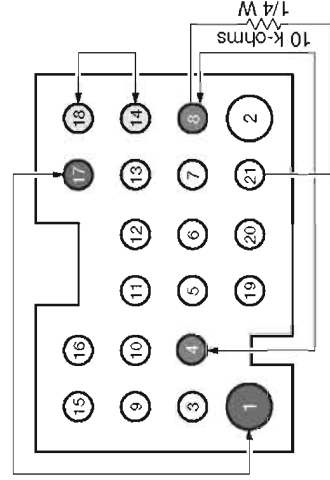
This menu is used to check the DOCK connector without the iPod itself.

With the power to this unit turned off, short between pins No. 14 (TX) and No. 18 (RX), between pins No. 1 (PWR) and No. 17 (ACCPW), between pins No. 4 (iPDET) and No. 8 (DGND). Also, connect a 10 k-ohms, 1/4 W resistor between pins NO. 21 (DKID) and No. 8 (DGND). (Make sure that the power is turned off when shorting pins.)

Start up the self-diagnostic function and select this menu.

The check result is displayed according to the following display specifications.

Note) Be sure to return the shorted pins to their original condition after executing this test.



DOCK CONNECTOR



All Y / すべて Y = "OK"
Others / その他 = "NG"

14. DOCK

iPod 本体無しで、DOCK コネクタの検査を行うメニューです。

本機の電源を切った状態で、DOCK コネクタの 14 ピン (TX) と 18 ピン (RX)、1 ピン (PWR) と 17 ピン (ACCPW)、4 ピン (iPDET) と 8 ピン (DGND) をショートさせます。また、21 ピン (DKID) と 8 ピン (DGND) の間に 10 kΩ、1/4 W 抵抗を接続します。(ショートさせる時は、必ず電源を切ってください。) ダイアグを起動して本メニューを選択します。

下記表示仕様に従って、チェック結果が表示されます。

注意) 検査後、ショートしたピンを必ず元の状態に戻してください。

Check item / チェック項目	Short pins / ショートピン	Result / 結果	Display / 表示
UART loop back test / UART ループバックテスト	Pins No.14 (TX) - No.18 (RX)	OK NG	Y N
iPAP (iPod accessory power) detection / iPAP (iPod accessory power) 検出	Pins No.1 (PWR) - No.17 (ACCPW)	High = YES Low = No	Y N
iPDET (iPod installation to DOCK) detection / iPDET (iPod installation to DOCK) 検出	Pins No.4 (iPDET) - No.8 (DGND)	Low = installed / 装着 High = not installed / 非装着	Y N
DKID (DOCK ID) detection / DKID (DOCK ID) 検出	Pins No.21 (DKID) - No.8 (DGND) * 10 k-ohms, 1/4 W pull down	10 k-ohms, 1/4 W pull down Other	Y N

BT VERSION

The DOCK (Bluetooth module) version is displayed.

BT VERSION

DOCK (Bluetooth module) のバージョンが表示されます。

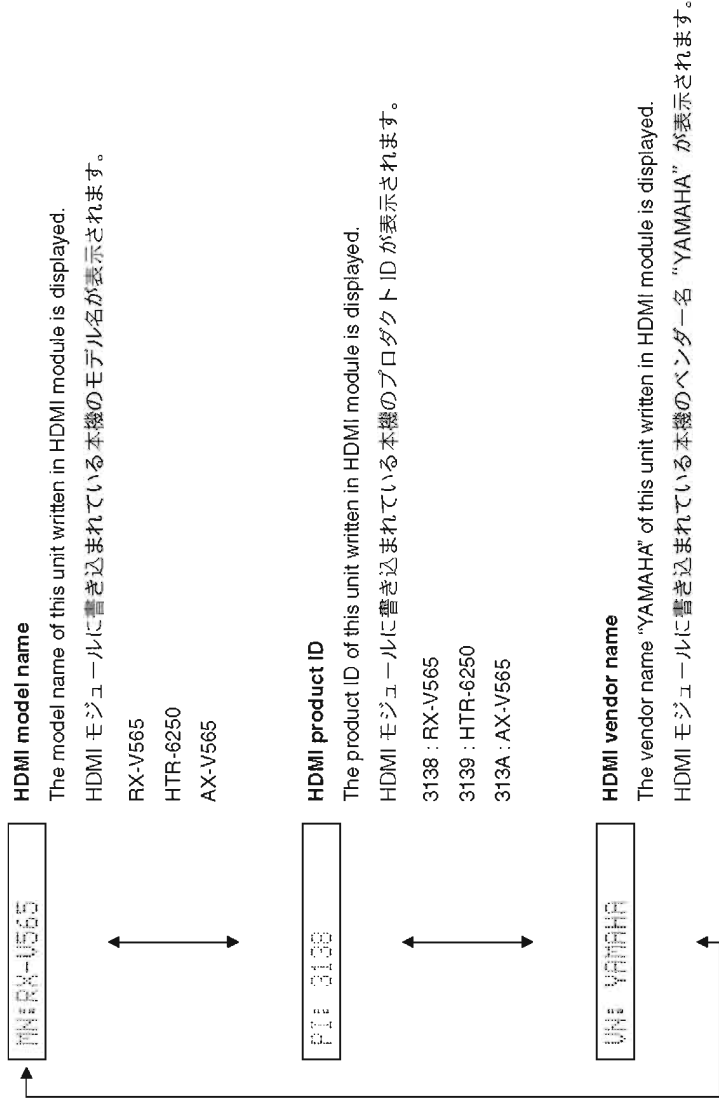
BT V:-----

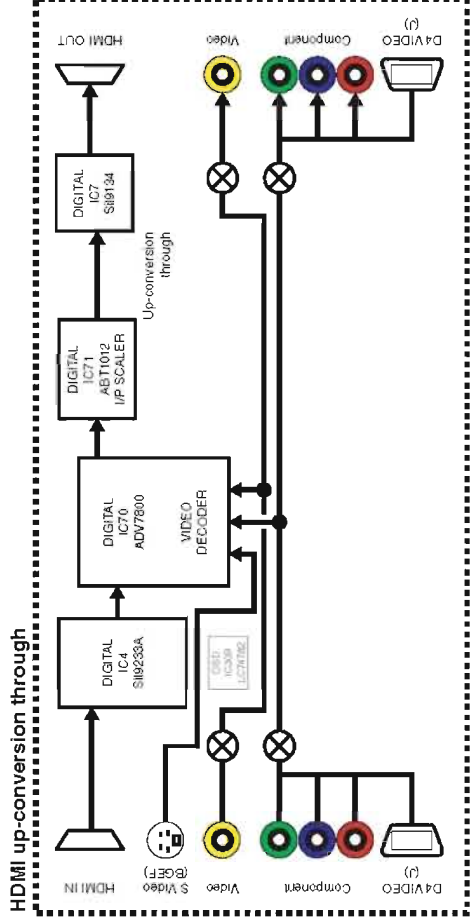
15. HDMI INFORMATION

The HDMI information are displayed.

15. HDMI INFORMATION

HDMI の情報が表示されます。





17. USB

Not applied to these models.

USB file 1

17:USB file 1

USB file 2

17:USB file 2

17. USB

このモデルには適用されません。

USB file 1

17:USB file 1

USB file 2

17:USB file 2

18. IF STATUS (Input function status)

Not applied to these models.

18. IF STATUS (Input function status)

このモデルには適用されません。

DSP status**DSP status**

DST:7700020000

19. BUS CHECK

Communication and bus line connection between devices on the DSP P.C.B. are checked.

19. BUS CHECK

DSP P.C.B.内のデバイス間の通信とバスラインの接続をチェックします。

TI (DSP) BUS check

Communication and bus line connection between microprocessor (IC20) and TI (DSP, IC44) are checked.

TI (DSP) BUS check

マイコン (IC20) と TI (DSP, IC44) の通信・バスラインの接続をチェックします。

TI BUSINER

NoEr : No error detected.

NoEr : 不良検出なし

Boot : When "Boot" is displayed for a few seconds or "Boot" and "NoEr" are displayed alternately, there is possibility that an error occurs.

Boot : "Boot" が数秒間表示されるまたは "Boot" と "NoEr" が交互に表示される場合、異常が発生している可能性があります。

BF LOOP :

Not applied to these models.

BF LOOP :

このモデルには適用されません。

BF LOOP:

BF LOOP:

20. NO MENU (Invalidity)

Invalidity

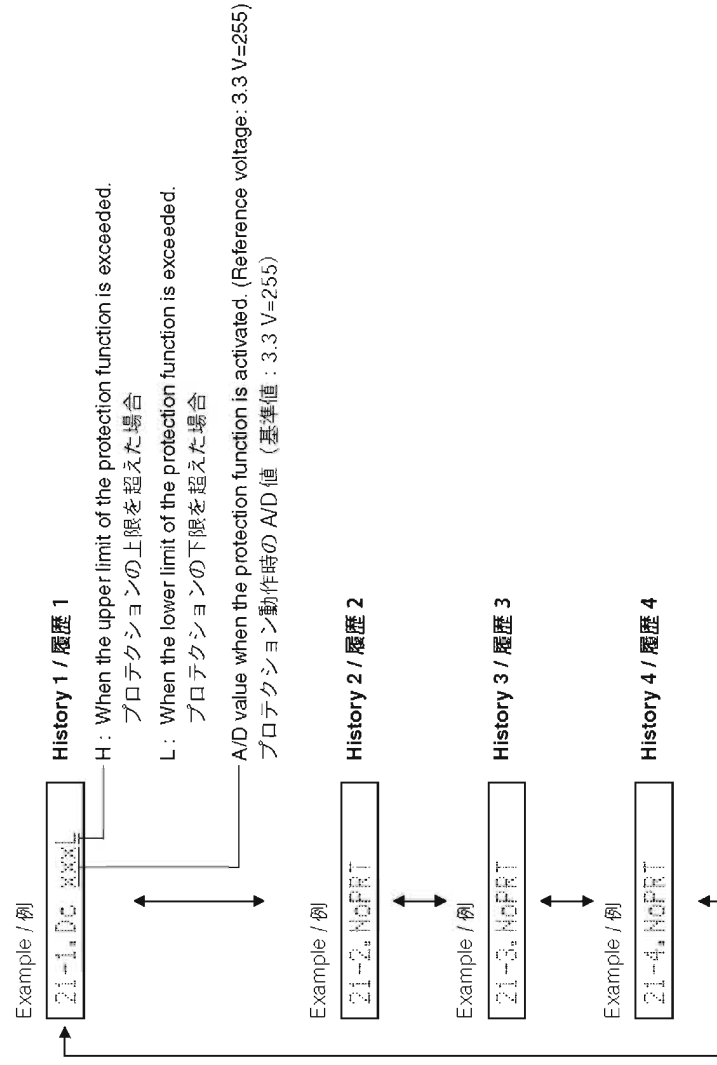
20. NO MENU (Invalidity)**21. PROTECTION HISTORY**

The history of protection function is displayed.

Select this menu and press the "STRAIGHT" key, and the history will be erased.

21. PROTECTION HISTORY

過去のプロテクション履歴が表示されます。
サブメニューを選んで後、“STRAIGHT”キーを押すと履歴は消去されます。

**22. NO MENU (Invalidity)**

Invalidity

22. NO MENU (Invalidity)**23. UPDATE**

Not applied to these models.

23. UPDATE

このモデルには適用されません。

UPDATE TI

UPDATE TI

23.UPDATE TI

24. FACTORY PRESET

This menu is used to reserve and inhibit initialization of the back-up IC.

24. FACTORY PRESET

バックアップ用 IC（音場プログラムのパラメーターやセッティングメニュー内容等）の初期化を予約／禁止します。

24.PRESET INHI



24.PRESET RESV

PRESET INHIBIT (Initialization inhibited) / PRESET INHIBIT (初期化禁止)

Back-up IC initialization is not executed. Select this sub-menu to protect the values set by the user. バックアップ IC の初期化は行われません。ユーザーの設定値を保護するときは、こちらを選択してください。

PRESET RESERVED (Initialization reserved) / PRESET RESERVED (初期化予約)

Initialization of the back-up IC is reserved. (Actually, initialization is executed the next time that the power is turned on.) Select this sub-menu to reset to the original factory settings or to reset the back-up IC. Any protection history will be cleared. バックアップ IC の初期化が予約されます。(実際に初期化されるのは、次回の電源投入時です。) 工場出荷時やバックアップ IC をリセットしたいときは、こちらを選択してください。このとき、プロテクション履歴も初期化されます。

CAUTION: Before setting to the PRESET RESERVED, write down the existing preset memory content of the tuner.

注意： PRESET RESERVED を選んで初期化をする前に、チューナーのユーザーメモリー内容を書き写してください。

(This is because setting to the PRESET RESERVED will cause the user memory content to be erased.)

(初期化をすると、ユーザーメモリーの内容は消えてしまいます。)

25. ROM VER/SUM/PORT

The firmware version, checksum values, model name and destination are displayed.

The checksum is obtained by adding the data at every 8-bit for each program area and expressing the result as a 4-figure hexadecimal data.

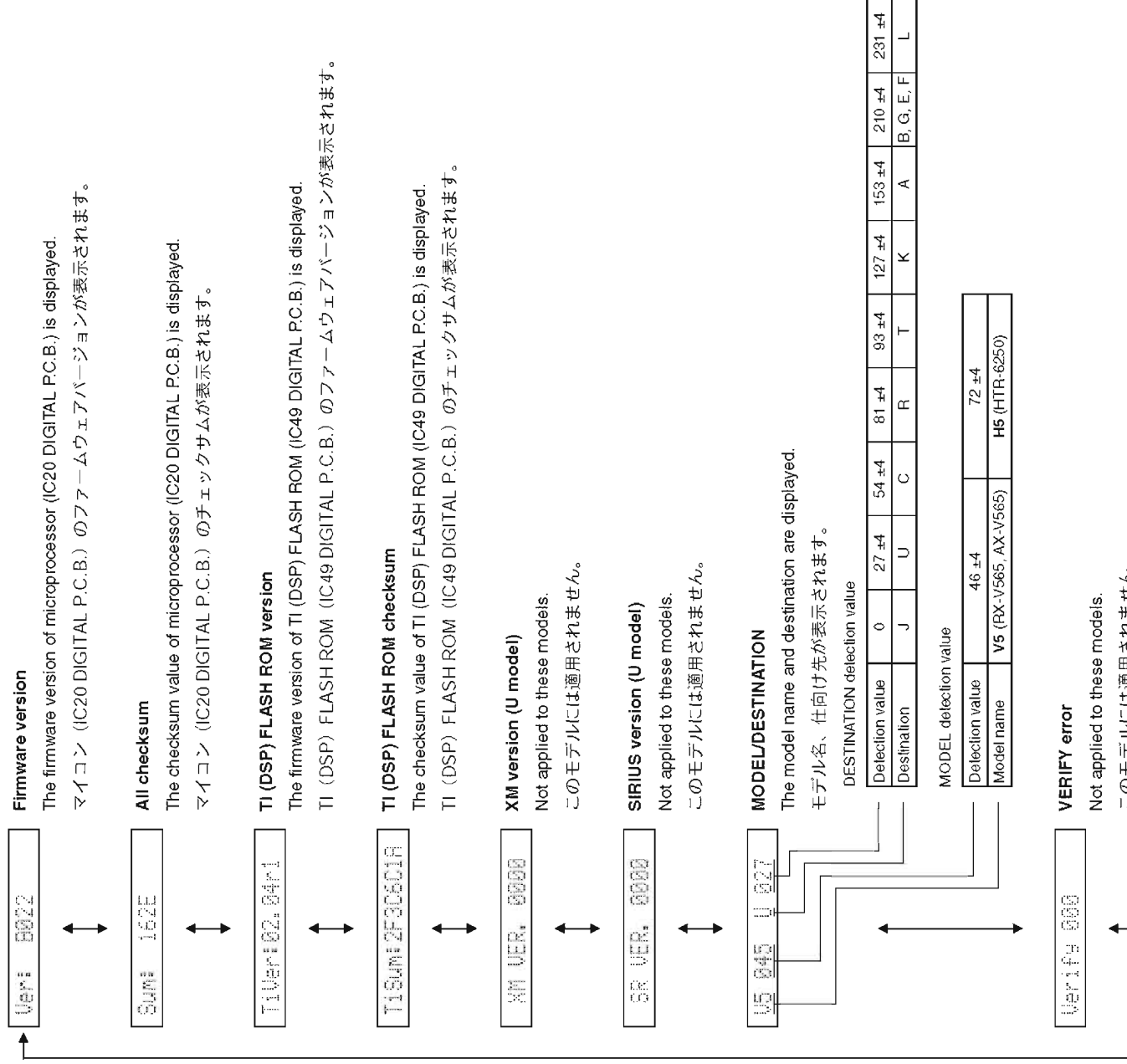
* The figures in the diagram are given as reference only.

25. ROM VER/SUM/PORT

ファームウェアのバージョン、チェックサム、モデル名、仕向け先が表示されます。

チェックサムは、プログラムエリア別にデータを8ビットごとに加算していき、4桁の16進データで現したものです。

※ 図中の数値は参考例です。



● ANODE CONNECTION

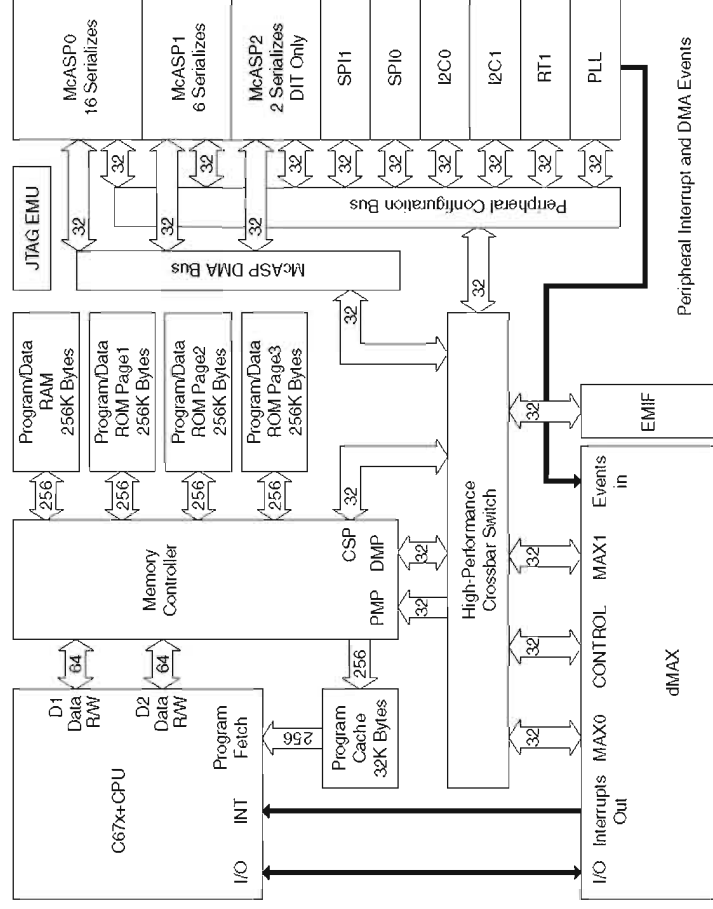
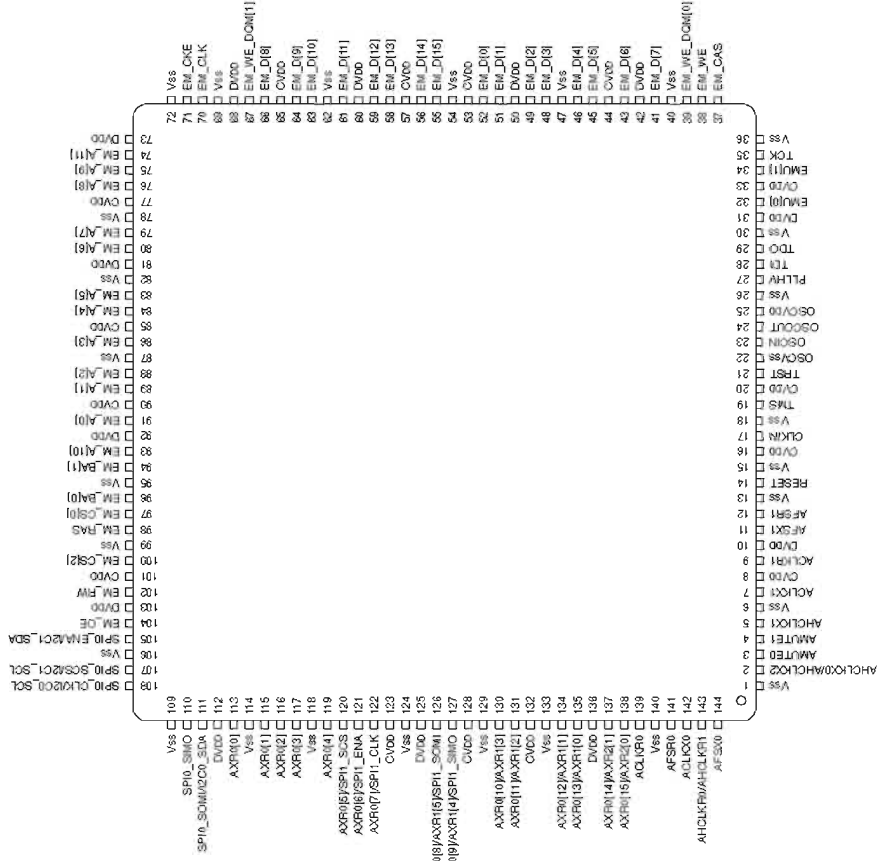
	18G	17G	16G	15G	1G-14G
P1	1a	1a	1a	S5	1-1
P2	1h	1h	1h	S7	2-1
P3	1j	1j	1j	1d	3-1
P4	1k	1k	1k	2d	4-1
P5	1b	1b	1b	S2	5-1
P6	1f	1f	1f	1e	1-2
P7	1m	1m	1m	2e	2-2
P8	1g	1g	1g	S3	3-2
P9	1c	1c	1c	1c	4-2
P10	1e	1e	1e	2c	5-2
P11	1r	1r	1r	S4	1-3
P12	1p	1p	1p	1g	2-3
P13	1n	1n	1n	2g	3-3
P14	1d	1d	1d	1f	4-3
P15	2a	2a	2a	2f	5-3
P16	2h	2h	2h	1b	1-4
P17	2j	2j	2j	2b	2-4
P18	2k	2k	2k	1a	3-4
P19	2b	2b	2b	2a	4-4
P20	2f	2f	2f	PL	5-4
P21	2m	2m	2m	SW	1-5
P22	2g	2g	2g	PR	2-5
P23	2c	2c	2c	L	3-5
P24	2e	2e	2e	C	4-5
P25	2r	2r	2r	R	5-5
P26	2p	2p	2p	SL	1-6
P27	2n	2n	2n	SR	2-6
P28	2d	2d	2d	SFL	3-6
P29	SIRIUS	S8	FD	BB	4-6
P30	XM	S9	TAB	SBR	5-6
P31	HDMI	iPod CHARGE	CINEMA DSP	S6	1-7
P32	LIST	SP B	S	S13	2-7
P33	LIST	S15	STEREO	MUTE	3-7
P34	S12	SP A	TUNED	[ZONE 2]	4-7
P35	S10	S14	S17	[ZONE 3]	5-7
P36	S11	-	S16	SLEEP	S1

■ IC DATA

IC44: D70YE101BRFP266 (DIGITAL P.C.B.)

Decoder/Post processor

* No replacement part available. / サービス部品供給なし

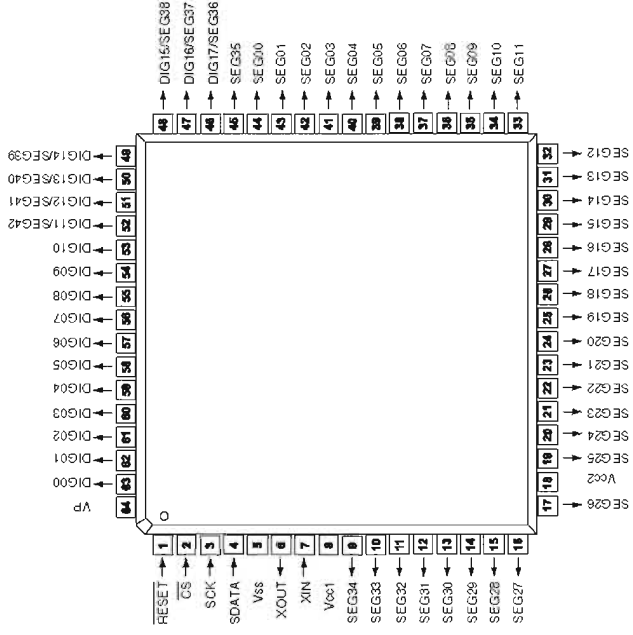
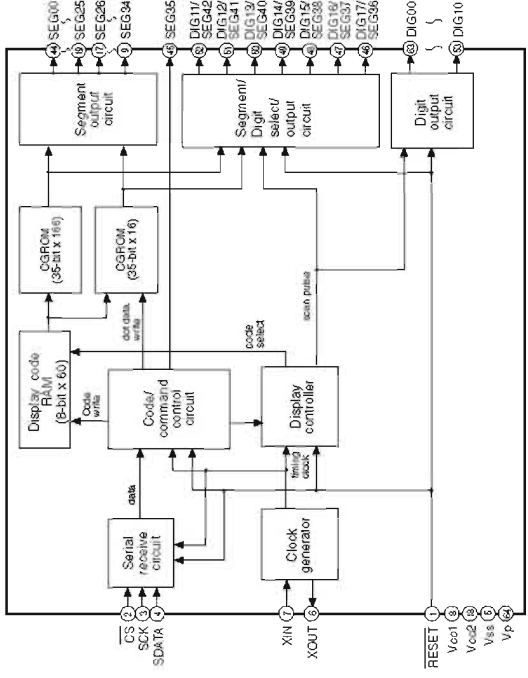


No.	Function Name (P.C.B.)	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	Detail of Function
1	VSS				
2	AHCLKX0/AHCLKX2	IO	-	Y	McASP0 and McASP2 transmit master clock
3	AMUTE0	IO	-	Y	McASP0 mute output
4	AMUTE1	IO	-	Y	McASP1 mute output
5	AHCLKX1	IO	-	Y	McASP1 transmit master clock
6	VSS				
7	ACLKX1	IO	-	Y	McASP1 transmit bit clock
8	CVDD				
9	ACLKR1	IO	-	Y	McASP1 receive bit clock
10	DVDD				
11	AFSX1	IO	-	Y	McASP1 transmit frame Sync (L/R clock)
12	AFSR1	IO	-	Y	McASP1 receive frame Sync (L/R clock)
13	VSS				
14	RESET	IO	-	N	Device reset pin
15	VSS				
16	CVDD				
17	CLKIN	IO	-	N	Alternate clock input (3.3-V LVCMOS input)
18	VSS				
19	TMS	IO	IPU	N	Test mode select
20	CVDD				
21	TRST	IO	IPU	N	Test reset
22	OSCVSS	PWR	-	N	Oscillator Vss tap point (for filter only)
23	OSCIN	IO	-	N	1.2-V oscillator input
24	NC	O	-	N	
25	OSCVDD	PWR	-	N	Oscillator 1.2-V Vpp tap point (for filter only)
26	VSS				
27	PLLHV	PWR	-	N	PLL 3.3-V supply input (requires external filter)
28	TDI	IO	IPU	N	Test data in
29	TDO	OZ	IPU	N	Test data out
30	VSS				
31	DVDD				
32	EMU[0]	IO	IPU	N	Emulation pin 0
33	CVDD				
34	EMU[1]	IO	IPU	N	Emulation pin 1
35	TCK	IO	IPU	N	Test clock
36	Ground(Vss)				
37	EM_CAS	O	-	N	SDRAM column address strobe
38	EM_WE	O	-	N	SDRAM write enable
39	EM_WE_DQM[0]	O	-	N	Write enable or byte enable for EM_D [7:0]
40	VSS				
41	EM_D[7]	IO	-	N	EMIF data bus [lower 16-bits]
42	DVDD				
43	EM_D[6]	IO	-	N	EMIF data bus [lower 16-bits]
44	CVDD				
45	EM_D[5]	IO	-	N	EMIF data bus [lower 16-bits]
46	EM_D[4]	IO	-	N	EMIF data bus [lower 16-bits]
47	VSS				
48	EM_D[3]	IO	-	N	EMIF data bus [lower 16-bits]
49	EM_D[2]	IO	-	N	EMIF data bus [lower 16-bits]
50	DVDD				
51	EM_D[1]	IO	-	N	EMIF data bus [lower 16-bits]
52	EM_D[0]	IO	-	N	EMIF data bus [lower 16-bits]
53	CVDD				
54	VSS				
55	EM_D[15]	IO	-	N	EMIF data bus [lower 16-bits]
56	EM_D[14]	IO	-	N	EMIF data bus [lower 16-Bits]
57	CVDD				
58	EM_D[13]	IO	-	N	EMIF data bus [lower 16-Bits]
59	EM_D[12]	IO	-	N	EMIF data bus [lower 16-Bits]
60	DVDD				
61	EM_D[11]	IO	-	N	EMIF data bus [lower 16-Bits]

No.	Function Name (P.C.B.)	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	Detail of Function
62	VSS				
63	EM_D[10]	IO	-	N	EMIF data bus [lower 16-Bits]
64	EM_D[9]	IO	-	N	EMIF data bus [lower 16-Bits]
65	CVDD				
66	EM_D[8]	IO	-	N	EMIF data bus [lower 16-bits]
67	EM_WE_DQM[1]	O	-	N	Write enable or byte enable for EM_D [15:8]
68	DVDD				
69	VSS				
70	EM_CLK	O	-	N	SDRAM clock
71	EM_CKE	O	-	N	SDRAM clock enable
72	VSS				
73	DVDD				
74	EM_A[11]	O	-	N	EMIF address bus
75	EM_A[9]	O	-	N	EMIF address bus
76	EM_A[8]	O	-	N	EMIF address bus
77	CVDD				
78	VSS				
79	EM_A[7]	O	-	N	EMIF address bus
80	EM_A[6]	O	-	N	EMIF address bus
81	DVDD				
82	VSS				
83	EM_A[5]	O	-	N	EMIF address bus
84	EM_A[4]	O	-	N	EMIF address bus
85	CVDD				
86	EM_A[3]	O	-	N	EMIF address bus
87	VSS				
88	EM_A[2]	O	-	N	EMIF address bus
89	EM_A[1]	O	-	N	EMIF address bus
90	CVDD				
91	EM_A[0]	O	-	N	EMIF address bus
92	DVDD				
93	EM_A[10]	O	-	N	EMIF address bus
94	EM_BA[1]	O	-	N	SDRAM bank address and asynchronous memory Low-Order address
95	VSS				
96	EM_BA[0]	O	-	N	SDRAM bank address and asynchronous memory Low-Order address
97	EM_CS[0]	O	-	N	SDRAM chip select
98	EM_RAS	O	-	N	SDRAM row address strobe
99	VSS				
100	EM_CS[2]	O	-	N	Asynchronous memory chip Select
101	CVDD				
102	NC	O	-	N	Asynchronous memory read/not write
103	DVDD				
104	EM_OE	O	-	N	SDRAM output enable
105	SPI0_ENA/I2C1_SDA	IO	-	Y	SPI0 enable (ready) or I2c1 serial data
106	VSS				
107	SPI0_ENA/I2C1_SCL	IO	-	Y	SPI0 enable (ready) or I2c1 serial clock
108	SPI0_CLK/I2C0_SCL	IO	-	Y	SPI0 serial clock or I2c0 serial clock
109	VSS				
110	SPI0_SIMO	IO	-	Y	SPI0 data pin slave in master out
111	SPI0_SOMI/I2C0_SDA	IO	-	Y	SPI0 data pin slave out master in or I2C0 serial data
112	DVDD				
113	AXR0[0]	IO	-	Y	McASP0 serial data 0
114	VSS				
115	AXR0[1]	IO	-	Y	McASP0 serial data 1
116	AXR0[2]	IO	-	Y	McASP0 serial data 2
117	AXR0[3]	IO	-	Y	McASP0 serial data 3
118	VSS				
119	AXR0[4]	IO	-	Y	McASP0 serial data 4
120	SPI1_SCS	IO	-	Y	McASP0 serial data 5 or SPI1 slave chip select
121	SPI1_ENA	IO	-	Y	McASP0 serial data 6 or SPI1 enable (ready)
122	SPI1_CLK	IO	-	Y	McASP0 serial data 7 or SPI1 serial clock

No.	Function Name (P.C.B.)	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	Detail of Function
123	CVDD				
124	VSS				
125	DVDD				
126	/SPI1_SOMI	IO	–	Y	McASP0 serial data 8 or McASP1 serial data 5 or SPI1 data pin slave out master in
127	/SPI1_SIMO	IO	–	Y	McASP0 serial data 9 or McASP1 serial data 4 or SPI1 data pin slave in master out
128	CVDD				
129	VSS				
130	AXR0[10]	IO	–	Y	McASP0 serial data 10 or McASP1 serial data 3
131	AXR0[11]	IO	–	Y	McASP0 serial data 11 or McASP1 serial data 2
132	CVDD				
133	VSS				
134	AXR0[12]	IO	–	Y	McASP0 serial data 12 or McASP1 serial data 1
135	AXR0[13]	IO	–	Y	McASP0 serial data 13 or McASP1 serial data 0
136	DVDD				
137	AXR0[14]	IO	–	Y	McASP0 serial data 14 or McASP2 serial data 1
138	AXR0[15]	IO	–	Y	McASP0 serial data 15 or McASP2 serial data 0
139	ACLKR0	IO	–	Y	McASP0 receive bit clock
140	VSS				
141	AFSR0	IO	–	Y	McASP0 receive frame Sync (L/R clock)
142	ACLKX0	IO	–	Y	McASP0 transmit bit clock
143	AHCLKR0/AHCLKR1	IO	–	Y	McASP0 and McASP1 receive master clock
144	AFSX0	IO	–	Y	McASP0 transmit frame Sync (L/R clock)

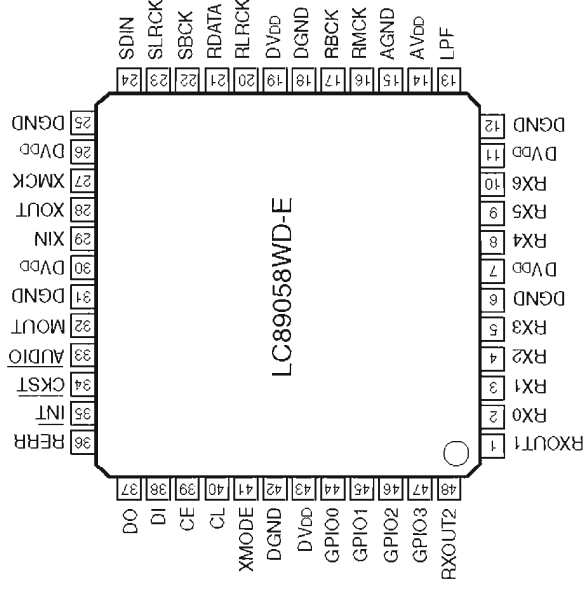
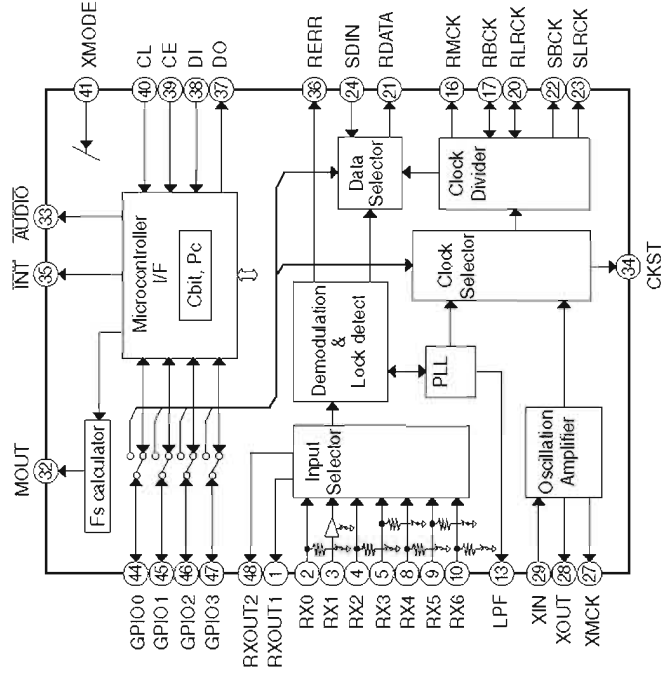
1C402: M66003-0131FP (OPERATION P.C.B.)
FL display driver



P in No.	Port Name	Function Name	I/O	Detail of Function
1	RESET	/RESET	Reset input	When "L" M66003 is initialized.
2	CS	/CEFL	Chip select input	When "L" communication with the MCU is possible.
3	SCK	CKFL	Shift clock input	When "H" any instruction from the MCU is neglected.
4	SDATA	DTFL	Serial data input	Serial input data is taken and shifted by the positive edge of SCK.
5	Vss	VSS	GND (0V)	
6	XOUT	XOUT	Clock out	When use as a CR oscillator, connect external resistor and capacitor.
7	XIN	XIN	Clock in	When use an external clock input external clock to XIN, and XOUT must be opened.

Pin No.	Port Name	Function Name	I/O	Detail of Function
8	Vcc1	VDD		Positive power supply for internal logic.
9	SEG34	P11		
10	SEG33	P2		
11	SEG32	P3		
12	SEG31	P4		
13	SEG30	P5	Segment output	Connect to segment (anode) pins of VFD.
14	SEG29	P6		
15	SEG28	P7		
16	SEG27	P8		
17	SEG26	P9		
18	Vcc2	VDD		Positive power supply for DIG and SEG outputs.
19	SEG25	P10		
20	SEG24	P11		
21	SEG23	P12		
22	SEG22	P13		
23	SEG21	P14		
24	SEG20	P15		
25	SEG19	P16		
26	SEG18	P17		
27	SEG17	P18I		
28	SEG16	P19		
29	SEG15	P20		
30	SEG14	P21		
31	SEG13	P22		
32	SEG12	P23		
33	SEG11	P24	Segment output	Connect to segment (anode) pins of VFD.
34	SEG10	P25		
35	SEG09	P26		
36	SEG08	P27		
37	SEG07	P28		
38	SEG06	P29		
39	SEG05	P30		
40	SEG04	P31		
41	SEG03	P32		
42	SEG02	P33		
43	SEG01	P34		
44	SEG00	P35		
45	SEG35	P36		
46	SEG36	P37		
47	DIG16/SEG37	G17I		
48	DIG15/SEG38	G16I		
49	DIG14/SEG39	G15I		
50	DIG13/SEG40	G14		
51	DIG12/SEG41	G13		
52	DIG11/SEG42	G12		
53	DIG10	G11		
54	DIG09	G10		
55	DIG08	G9		
56	DIG07	G8		
57	DIG06	G7		
58	DIG05	G6		
59	DIG04	G5		
60	DIG03	G4		
61	DIG02	G3		
62	DIG01	G2		
63	DIG00	G1	Digital output	Connect to digit (grid) pins of VFD.
64	VP	VP		Negative power supply to pull down.

IC41: LC89058WD-E (DIGITAL P.C.B.)
Digital audio interface receiver



Pin No.	Function Name	I/O	Detail of Function
1	RXOUT1	O	RX0-6 input S/PDIF through output pin 1
2	RX0	I _s (pd)	5V withstand voltage TIL input level compatible S/PDIF input pin (connected to GND when RX1 is set)
3	RX1	I(pd)	Co-axial compatible S/PDIF input pin (supported demodulation sampling frequency of up to 96 kHz)
4	RX2	I _s (pd)	5V withstand voltage TIL input level compatible S/PDIF input pin (connected to GND when RX1 is set)
5	RX3	I _s (pd)	5V withstand voltage TIL input level compatible S/PDIF input pin
6	DGND		Digital GND
7	DVDD		Digital power supply (3.3V)
8	RX4	I _s (pd)	5V tolerable TIL input level compatible S/PDIF input pin
9	RX5	I _s (pd)	5V tolerable TIL input level compatible S/PDIF input pin
10	RX6	I _s (pd)	5V tolerable TIL input level compatible S/PDIF input pin
11	DVDD		Digital power supply (3.3V)
12	DGND		Digital GND
13	LPF	O	PLL loop filter connection pin
14	AVDD		Analog power supply (3.3V)
15	AGND		Analog GND
16	RMCK	O	R system clock output pin (VCO, 5.12fs, XIN)
17	RBCK	O/I	R system bit clock I/O pin (64fs)
18	DGND		Digital GND
19	DVDD		Digital power supply (3.3V)
20	RLRCK	O/I	R system LR clock I/O pin (fs)
21	RDATA	O	Serial audio data output pin
22	SBCK	O	S system bit clock output pin (16fs, 32fs, 64fs, 128fs)
23	SLRCK	O	S system LR clock output pin (fs/4, fs/2, fs, 2fs)
24	SDIN	I _s	External serial audio data input pin
25	DGND		Digital GND
26	DVDD		Digital power supply (3.3V)
27	XMCK	O	Oscillation amplifier clock output pin
28	XOUT	O	Output pin connected to the resonator
29	XIN	I	External clock input pin, connected to the resonator (12.288 MHz or 24.576 MHz)
30	DVDD		Digital power supply (3.3V)
31	DGND		Digital GND
32	MOUT	I/O	Emphasis information II input fs monitor output II chip address setting input pin
33	AUDIO	I/O	Channel status bit 1 output II chip address setting input pin
34	CKST	I/O	Clock switching transition period signal output II master/slave setting input pin
35	INT	I/O	Microcontroller interrupt signal output II pins 44-48 I/O setting input pin
36	FERR	O	PLL lock error and data error flag output pin
37	DO	O	CCB microcontroller I/F, read data output pin (3-state)
38	DI	I _s	CCB microcontroller I/F, write data input pin
39	CE	I _s	CCB microcontroller I/F, chip enable input pin
40	CL	I _s	CCB microcontroller I/F, clock input pin
41	XMODE	I _s	System reset input pin
42	DGND		Digital GND
43	DVDD		Digital power supply (3.3V)
44	GPIO0	O/I	General-purpose I/O pin II selector input pin (output referred to RMCK pin)
45	GPIO1	O/I	General-purpose I/O pin II selector input pin (output referred to RBCK pin)
46	GPIO2	O/I	General-purpose I/O pin II selector input pin (output referred to RLRCK pin)
47	GPIO3	O/I	General-purpose I/O pin II selector input pin (output referred to RDATA pin)
48	RXOUT2	O	RX0-6 input S/PDIF through output pin 2

* Input voltage: 1 = -0.3 to 3.6V, I_s = -0.3 to 5.5V

* Output voltage: 0 = -0.3 to 3.6V

* Pins 2, 4, 5, 8, 9, 10, 24, 38, 39, 40, and 41 have an internal pull-down resistor (Pc).

Their level is fixed when they are unselected.

* Pins 32 and 33 are input pins for chip address setting when pin 41 is held at the low level.

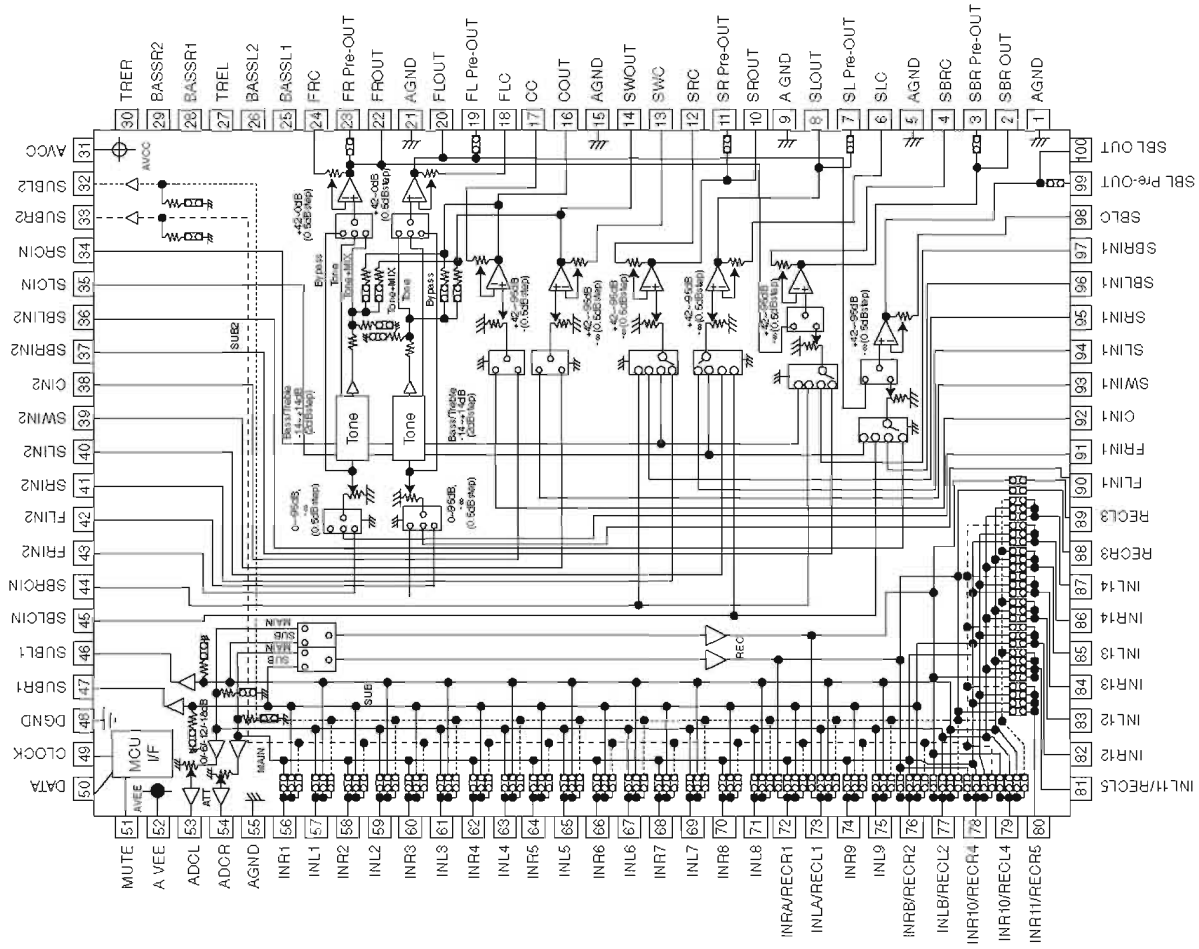
* Pin 34 serves as the input pin for designating as the master or slave when pin 41 is held at the low level.

* Pin 35 serves as the input pin for configuring the I/O of pins 44 to 47 when pin 41 is held at the low level.

* The DVDD and AVDD pins must be held at the same level and turned on and off at the same timing to preclude latch-up conditions.

IC153: R2A15220FP (MAIN P.C.B.)

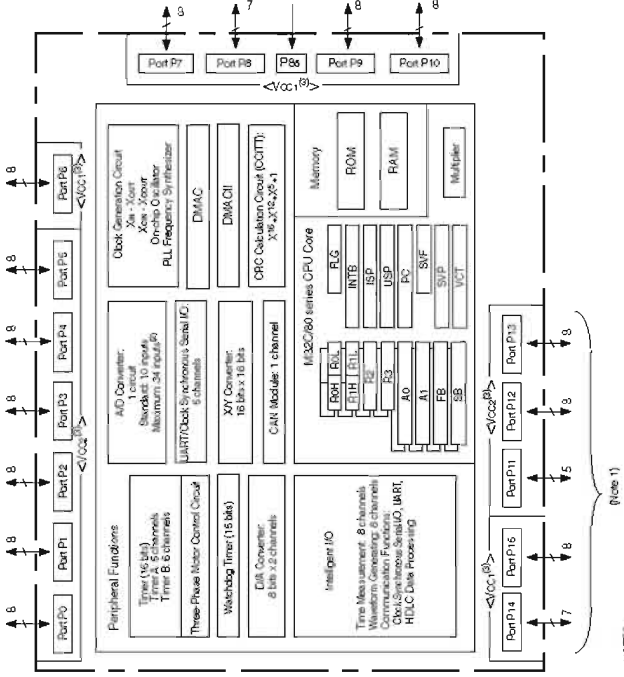
8-channel electronic volume with 11 input selector and tone control



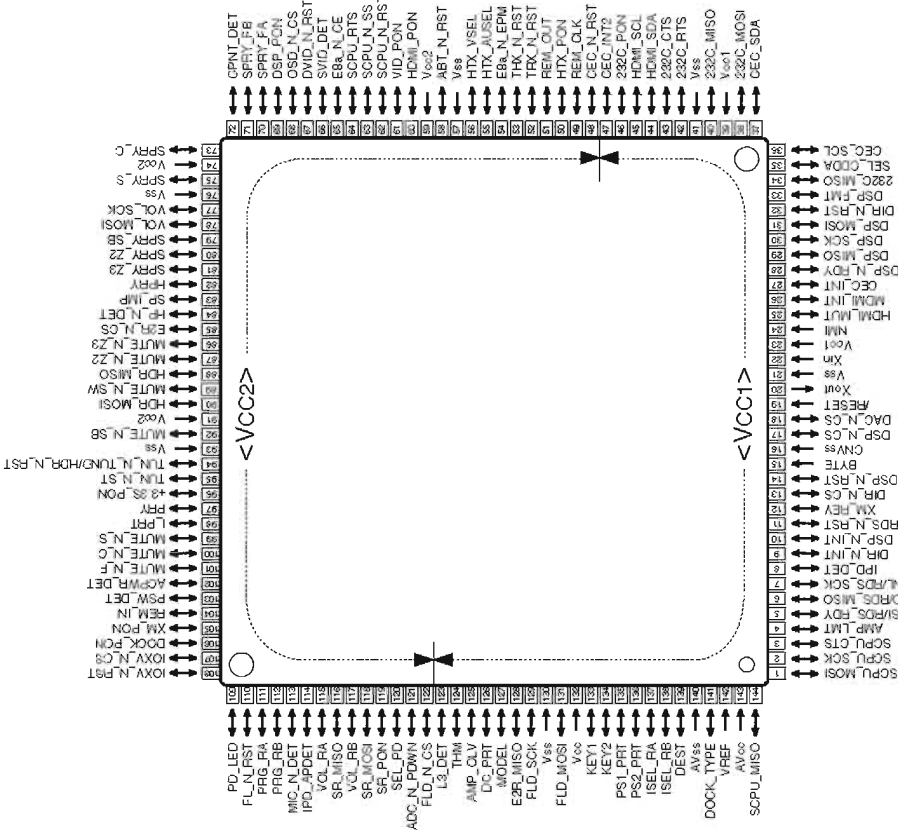
Pin No.	Port name	Function Name	Detail of Function
1	AGND	AE	Analog ground of internal circuit
2	SBR-OUT	VOSBL	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
3	SR Pre-OUT	VOPSL	Pre-output pin of FL/FR/SL/SR/SBL/SBR channel
4	SBRC	AE	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
5	AGND	AE	Analog ground of internal circuit
6	SLC	VOPSR	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
7	SL Pre-OUT	VOSR	Pre-output pin of FL/FR/SL/SR/SBL/SBR channel
8	SLOUT	AE	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
9	AGND	AE	Analog ground of internal circuit
10	SROUT	VOSL	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
11	SR Pre-OUT	VOPSL	Pre-output pin of FL/FR/SL/SR/SBL/SBR channel
12	SRC	AE	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
13	SWC	AE	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
14	SWOUT	VOSW	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
15	AGND	AE	Analog ground of internal circuit
16	COU	VOC	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
17	CC	AE	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
18	FLC	AE	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
19	FL Pre-OUT	VOPFR	Pre-output pin of FL/FR/SL/SR/SBL/SBR channel
20	FLOUT	VOFR	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
21	AGND	POE	Analog ground of internal circuit
22	FROUT	VOFL	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
23	FR Pre-OUT	VOPFL	Pre-output pin of FL/FR/SL/SR/SBL/SBR channel
24	FRC	AE	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
25	BASSL1	AE	Frequency characteristic setting pin of L/R channel tone control (Bass)
26	BASSL2	AE	Frequency characteristic setting pin of L/R channel tone control (Bass)
27	TREL	AE	Frequency characteristic setting pin of L/R channel tone control (Trebble)
28	BASSR1	AE	Frequency characteristic setting pin of L/R channel tone control (Bass)
29	BASSR2	AE	Frequency characteristic setting pin of L/R channel tone control (Bass)
30	TRER	AE	Frequency characteristic setting pin of L/R channel tone control (Trebble)
31	AVCC	VCC	Positive power supply to internal circuit
32	SUBL1	N.C.	Output pin for L/R channel SUB1/SUB2 output
33	SUBL2	N.C.	Output pin for L/R channel SUB1/SUB2 output
34	SRCIN	N.C.	3rd multi input pin for SBL/SBR/SL/SR channel volume that is able to swap SBR/SBL with SR/SL
35	SLCIN	N.C.	3rd multi input pin for SBL/SBR/SL/SR channel volume that is able to swap SBR/SBL with SR/SL
36	SBLIN2	8SBR	Multi input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
37	SBRIN2	8SBL	Multi input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
38	CIN2	8C	Multi input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
39	SWIN2	8SW	Multi input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
40	SLIN2	8SR	Multi input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
41	SRIN2	8SL	Multi input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
42	FLIN2	8FR	Multi input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
43	FRIN2	8FL	Multi input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
44	SBR CIN	Z2L	3rd multi input pin for SBL/SBR/SL/SR channel volume that is able to swap SBR/SBL with SR/SL
45	SBL CIN	Z2R	3rd multi input pin for SBL/SBR/SL/SR channel volume that is able to swap SBR/SBL with SR/SL
46	SUBL1	Z2R	Output pin for L/R channel SUB1/SUB2 output
47	SUBR1	Z2L	Output pin for L/R channel SUB1/SUB2 output
48	DGND	MG	Digital ground of internal circuit
49	DATA	VOL_SCK	Input pin of control data
50	CLOCK	VOL_MOSI	Input pin of control clock
51	MUTE	AE	Outside mute control pin
52	AVEE	-	Negative power supply to internal circuit
53	ADCL	ADR	Output pin for L/R channel ADC
54	ADCR	ADL	Output pin for L/R channel ADC
55	AGND	AE	Analog ground of internal circuit
56	INR1	AU2L	Input pin of L/R channel (Input selector)
57	INL1	AU2R	Input pin of L/R channel (Input selector)
58	INR2	AU1L	Input pin of L/R channel (Input selector)

Pin No.	Port name	Function Name	Detail of Function
59	INL2	AU1R	Input pin of L/R channel (Input selector)
60	INR3	AV-6L	Input pin of L/R channel (Input selector)
61	INL3	AV-6R	Input pin of L/R channel (Input selector)
62	INR4	AV-5L	Input pin of L/R channel (Input selector)
63	INL4	AV-5R	Input pin of L/R channel (Input selector)
64	INR5	PHL	Input pin of L/R channel (Input selector)
65	INL5	PHR	Input pin of L/R channel (Input selector)
66	INR6	SRL	Input pin of L/R channel (Input selector)
67	INL6	SRR	Input pin of L/R channel (Input selector)
68	INR7	IPL	Input pin of L/R channel (Input selector)
69	INL7	IPR	Input pin of L/R channel (Input selector)
70	INR8	XML	Input pin of L/R channel (Input selector)
71	INL8	XMR	Input pin of L/R channel (Input selector)
72	INRA/RECR1	AV-OUT_L	Output pin for L/R channel (input selector)/Output pin for L/R channel REC output
73	INLA/RECL1	AV-OUT_R	Output pin for L/R channel (input selector)/Output pin for L/R channel REC output
74	INR9	USBL	Input pin of L/R channel (Input selector)
75	INL9	USBR	Input pin of L/R channel (Input selector)
76	INRB/RECR2	AOL	Output pin for L/R channel (input selector)/Output pin for L/R channel REC output
77	INLB/RECL2	AOR	Output pin for L/R channel (input selector)/Output pin for L/R channel REC output
78	INR10/RECR4	TUL	Output pin for L/R channel (input selector)/Output pin for L/R channel REC output
79	INL10/RECL4	TUR	Output pin for L/R channel (input selector)/Output pin for L/R channel REC output
80	INR11/RECR5	MIC	Output pin for L/R channel (input selector)/Output pin for L/R channel REC output
81	INL11/RECL5	AE	Output pin for L/R channel (input selector)/Output pin for L/R channel REC output
82	INR12	AUXL	Input pin of L/R channel (Input selector)
83	INL12	AUXR	Input pin of L/R channel (Input selector)
84	INR13	AE	Input pin of L/R channel (Input selector)
85	INL13	AE	Input pin of L/R channel (Input selector)
86	INR14	AE	Input pin of L/R channel (Input selector)
87	INL14	AE	Input pin of L/R channel (Input selector)
88	RECR3	N.C	Output pin for L/R channel REC output
89	RECL3	N.C	Output pin for L/R channel REC output
90	FLIN1	DAFR	Multi input pin of L/R/C/SW/SU/SR/SBL/SBR channel (Multi IN 1/2)
91	FRIN1	DAFL	Multi input pin of L/R/C/SW/SU/SR/SBL/SBR channel (Multi IN 1/2)
92	CIN1	DAC	Multi input pin of L/R/C/SW/SU/SR/SBL/SBR channel (Multi IN 1/2)
93	SWIN1	DASW	Multi input pin of L/R/C/SW/SU/SR/SBL/SBR channel (Multi IN 1/2)
94	SLIN1	DASR	Multi input pin of L/R/C/SW/SU/SR/SBL/SBR channel (Multi IN 1/2)
95	SEIN1	DASL	Multi input pin of L/R/C/SW/SU/SR/SBL/SBR channel (Multi IN 1/2)
96	SBLIN1	DASBR	Multi input pin of L/R/C/SW/SU/SR/SBL/SBR channel (Multi IN 1/2)
97	SBRIN1	DASBL	Multi input pin of L/R/C/SW/SU/SR/SBL/SBR channel (Multi IN 1/2)
98	SBLC	AE	Connects capacitor for reducing click noise of L/R/C/SW/SU/SR/SBL/SBR channel volume
99	SBL Pre-OUT	VOPSBR	Pre-output pin of FL/FR/SU/SR/SBL/SBR channel
100	SBL OUT	VOSBR	Output pin of FL/FR/C/SW/SU/SR/SBL/SBR channel

IC20: M3087BFKBP (DIGITAL P.C.B.)
Microprocessor



NOTES:
1. Ports P1 to P16 are included in the 144-pin package only.
2. Included in the 144-pin package only.
3. The supply voltage of M30260 (high-stability version) must be Vcc=Vcc2.



NOTES:
1. Pin 7 (XOVRT) / SD02 / SPR02 / INPC16 / OUTC16
2. Prg and P16 are pins for the thermometer diode output.
3. The supply voltage of M30260 must be Vcc=Vcc2.

Pin No.	Port Name	Function Name (P.C.B.)	I/O				Detail of Function
			Power On	Stby Thrt	Standby	Stby Sleep	
1	TXD4 P96/ANEX1/TXD4/ SDA4/SRXD4	IPD_MOSI	SO	0	0	0	Asynchronous data output for iPod
2	P95	SCPU_SCK	0	0	0	0	
3	P94 P94/DA1/TB4in/ CTS4/RTS4/SS4	SCPU_CTS	SI	1	1	0	Input for transmission control for SubCPU (clear to send)
4	DA0 P93/DA0/TB3in/ CTS3/RTS3/SS3	AMP_LMT	DA	1	1	1	Limiter control output
5	TB2in P92	RDS_RDY	TRM	0	0	0	RDS RRADY input (U, C, R, T, K, A, B, E, F, L, J models)
6	RXD3 P91	RDS_MISO	SI	0	0	0	Synchronous data input for RDS (U, C, R, T, K, A, B, E, F, L, J models)
7	CLK3 P90	RDS_SCK	SO	0	0	0	Synchronous clock output for RDS IC Requires low level standby (U, C, R, T, K, A, B, E, F, L, J models)
8	INT8 P146/INT8	IPD_DET	IRQ	IRQ	IRQ	0	iPod detection When inserting an iPod into the DOCK H → L Restriction of port: INT is high edge or low edge only
9	P145 P145/INT7	DIR_N_INT	IRQ	0	0	0	DIR interrupt Restriction of port: INT is high edge or low edge only
10	P144 P144/INT6	DSP_N_INT	IRQ	0	0	0	DA70Y interrupt Restriction of port: INT is high edge or low edge only
11	P143 P143	RDS_N_RST	0	0	0	0	RDS reset (U, C, R, T, K, A, B, E, F, L, J models)
12	P142 P141	DIR_SDO	1	0	0	0	DIR data input at CDDA writing mode
13	P141/INPC15/ OUTC15	DIR_N_CS	CS	0	0	0	DIR chip select
14	P140 P140/INPC14/ OUTC14	DSP_N_RST	0	0	0	0	DA70Y reset
15	BYTE BYTE	BYTE	MCU	MCU	MCU	MCU	Switch of width of data bus input When set to single chip mode: L (16 bit)
16	CNV/ss CNV/ss	CNV/ss	MCU	MCU	MCU	MCU	Processor mode select Low: single chip mode High: To Flash included boot mode To boot mode with hardware resetting of P50-H, P55-L, CNVss=H
17	P87 P87/Xain	DSP_N_CS	CS	0	0	0	DA70Y chip select
18	P86 P86/Xcout	DAC_N_CS	CS	0	0	0	DAC chip select
19	/RESET /RESET	/RESET	MCU	MCU	MCU	MCU	Reset
20	Xout Xout	Xout	MCU	MCU	MCU	MCU	20 MHz Ceramic resonator
21	Vss Vss	Vss	MCU	MCU	MCU	MCU	GND
22	Xin Xin	Xin	MCU	MCU	MCU	MCU	20 MHz ceramic resonator
23	Vcc1 Vcc1	Vcc1	MCU	MCU	MCU	MCU	Microprocessor power supply
24	/NMI P85/NMI	/NMI	MCU	MCU	MCU	MCU	Unused, pull up to Vcc
25	INT2 P84/INT2	HDMI_MUT	IRQ	IRQ	0	0	HDMI mute input Act H, Mute
26	INT1 P83/INT1	HDMI_INT	IRQ	IRQ	0	0	Interrupt from HDMI RX
27	INT0 P82/INT0	CEC_N_INT	IRQ	IRQ	0	0	CEC microprocessor interrupt

Pin No.	Port Name	Function Name (P.C.B.)	I/O					Detail of Function
			Power On	Stby Thrh	Standby	Stby Sleep	MCU Sleep	
28	P81	DSP_N_LRDY	I	0	0	0	0	DA70Y RDY
	P81/TA4in/U/INPC15/ OUTC15/CTS5/ RTS5/RTP23	DIR_WCK	I	0	0	0	0	CDDA writing DIR_WCK input
29	RXD5	DSP_MISO	SI	0	0	0	0	Synchronous data input for DIR, DA70Y, DAC
	P80/TA4out/U/ ISRXD0/RXD5	DSP_SCK	SO	0	0	0	0	Synchronous clock output for DIR, DA70Y, DAC
30	CLK5	DSP_SCK	SO	0	0	0	0	Synchronous clock output for DIR, DA70Y, DAC
	P77/TA3in/INPC14/ OUTC14/ISCLK0/ CLK5/RTP22	DSP_MOSI	SO	0	0	0	0	Synchronous data output for DIR, DA70Y, DAC
31	TXD5	DSP_MOSI	SO	0	0	0	0	Synchronous data output for DIR, DA70Y, DAC
	P76/TA3out/INPC13/ OUTC13/ISTXD0/ TXD5	DIR_N_RST	0	0	0	0	0	DIR reset
32	P75	DIR_N_RST	0	0	0	0	0	DIR reset
	P75/TA2in/W/ INPC12/OUTC12/ ISRXD1/RTP21	DSP_FMT	0	0	0	0	0	DA70Y full mute output H: Mute
33	P74	DSP_FMT	0	0	0	0	0	DA70Y full mute output H: Mute
	P74/TA2out/W/ INPC11/OUTC11/ ISCLK1/RTP20	232C_MISO	0	0	0	0	0	CDDA writing route select H: CDDA writing mode, L: Operational mode usually
34	P73	232C_MISO	0	0	0	0	0	CDDA writing route select H: CDDA writing mode, L: Operational mode usually
	P72/TA1out/V/CLK2	SEL_CDDA	0	0	0	0	0	CDDA writing route select H: CDDA writing mode, L: Operational mode usually
35	SCL2	CEC_SCL	SO	SO	0	0	0	CEC microprocessor, Tuner, HDMI_EQ (SI19185A) I2C SCL output (100 kHz device) U-com block then +3.3S, 3.3k then pull up
	P71/TA0in/TB5in/ RXD2/ISCL2/S/TXD2/ INPC17/OUTC17/ OUTC22/ISRXD2/ IEin/RTP03	CEC_SDA	SIO	SIO	0	0	0	CEC microprocessor, Tuner, HDMI_EQ (SI19185A) I2C SDA Input (100 kHz device) U-com block then +3.3S, 3.3k then pull up
36	P71/TA0in/TB5in/ RXD2/ISCL2/S/TXD2/ INPC17/OUTC17/ OUTC22/ISRXD2/ IEin/RTP03	CEC_SDA	SIO	SIO	0	0	0	CEC microprocessor, Tuner, HDMI_EQ (SI19185A) I2C SDA Input (100 kHz device) U-com block then +3.3S, 3.3k then pull up
	SDA2	CEC_SDA	SIO	SIO	0	0	0	CEC microprocessor, Tuner, HDMI_EQ (SI19185A) I2C SDA Input (100 kHz device) U-com block then +3.3S, 3.3k then pull up
37	P70/TA0out/TXD2/ SDA2/SRXD2/ INPC16/OUTC16/ OUTC20/ISTXD2/ IEout/RTP02	232C_MOSI	SO	SO	SO	0	0	RS232C data output Pull up at 100 k-ohms
	TXD1	TXD	SO					E8a, ICP (In-circuit programmer) data output
38	P67/TXD1/SDA1/ SRXD1	Vcc1	MCU	MCU	MCU	MCU	MCU	Microprocessor power supply
	Vcc1	Vcc1	MCU	MCU	MCU	MCU	MCU	Microprocessor power supply
39	Vcc1	Vcc1	MCU	MCU	MCU	MCU	MCU	Microprocessor power supply
	Vcc1	Vcc1	MCU	MCU	MCU	MCU	MCU	Microprocessor power supply
40	RXD1	232C_MISO	SI	SI	SI	I	I	RS232C data input Pull up at 100 k-ohms
	P66/RXD1/SCL1/ STXD1	RXD	SI					E8a, ICP (In-circuit programmer) data input
41	Vss	Vss	MCU	MCU	MCU	MCU	MCU	Microprocessor GND
	Vss	Vss	MCU	MCU	MCU	MCU	MCU	Microprocessor GND
42	P65	232C_RTS	SO	SO	SO	0	0	RS232C RTS output
	P65/CLK1	E8a_SCLK	SI					E8a, ICP (In-circuit programmer) clock input
43	CTS1	232C_CTS	SI	SI	SI	I	I	RS232C CTS input Pull down at 100 k-ohms
	P64/CTS1/RTS1/ SS1/OUTC21/ ISCLK2	E8a_BUSY	SO					E8a, ICP (In-circuit programmer) BUSY output
44	RTS1	E8a_BUSY	SO					HDMI RX/TX, Video Enc/Dec I2C SCL output (400 kHz device) Pull up at HDMI block
	SDA0	HDMI_SDA	SIO	SIO	0	0	0	HDMI RX/TX: 5V tolerant
44	P63/TXD0/SDA0/ SRXD0/IRDAout	HDMI_SDA	SIO	SIO	0	0	0	HDMI RX/TX: 5V tolerant
	SRXD0/IRDAout	HDMI_SDA	SIO	SIO	0	0	0	HDMI RX/TX: 5V tolerant

Pin No.	Port Name	Function Name (P.C.B.)	I/O				Detail of Function
			Power On	Stby Thm	Standby	Stby Sleep	
45	SCL0 P62/RXD0/SCL0/ STXD0/IRDAin	HDMI_SCL	SIO	SIO	0	0	HDMI RX/TX, Video Enc/Dec I2C SDA input/output (400 kHz device) Pull up at HDMI block HDMI RX/TX: 5V tolerant H: ON, L: OFF
46	P61 P60	232C_PON	0	0	0	0	CEC microprocessor interrupt
47	P60/CTS0/RTS0/ SS0/RTPO0	CEC_INT2	1	1	0	0	CEC microprocessor reset
48	P137 P137/OUTC27	CEC_N_RST	0	0	0	0	Clock output for remote control code generation No connection
49	ISCLK2 P136/OUTC21/ ISCLK2	REM_CLK	SO	0	0	0	No use (HDMI_PON common)
50	P135 P135/OUTC22/ ISRXD2/IEin	HTX_PON	0	0	0	0	
51	P134 P134/OUTC20/ ISTXD0/leout	REM_OUT					
52	P57 P57/RDY	HRX_N_RST	0	0	0	0	HDMI TX reset output L: Reset Pull down at HDMI block
53	P56 P56/ALE	HTX_N_RST	0	0	0	0	HDMI TX reset output L: Reset Pull down at HDMI block
54	P55 P55/HOLD	E8a_N_EPM	1	1	1	1	E8a writing mode enable input 10 k-ohms pull down
55	P54 P54/HLDA/ALE	HTX_AUSEL	0	0	0	0	No use (HDMI Rx GPIO use)
56	P133 P133/OUTC23	HTX_VSEL	0	0	0	0	No use (HDMI Rx GPIO use)
57	Vss Vss	Vss	MCU	MCU	MCU	MCU	Microprocessor GND
58	P132 P132/OUTC26	ABT_N_RST	0	0	0	0	Video I/P & Scaler IC reset L: reset VID_PON=L: Low fix
59	Vcc2 Vcc2	Vcc2	MCU	MCU	MCU	MCU	Microprocessor power supply
60	P131 P131/OUTC25	HDMI_PON	0	0	0	0	HDMI power supply ON/OFF control H: ON, L: OFF When V2065 uses CEC microprocessor, HDMI EQ (CXB1442, SJ9185A) reset may be used
61	P130 P130/OUTC24	VID_PON	0	0	0	0	Video power supply ON/OFF control H: ON, L: OFF Configured based on the Pure Direct specification
62	P53	SCPU_N_RST	0	0	0	0	
63	P52	SCPU_N_SS	0	0	0	0	
64	P51	SCPU_RTS	0	0	0	0	
65	P50 P50/WRL/WR	E8a_N_CE	1	1	1	1	E8a enable input 10 k-ohms pull up
66	P127 P127	SVID_DET	1	0	0	0	S video detection VID_PON=L: Low fix
67	P126 P126	DVID_N_RST	0	0	0	0	Video Enc/Dec reset VID_PON=L: Low fix
68	P125 P125	OSD_N_CS	CS	0	0	0	OSD chip select VID_PON=L: Low fix
69	P47/SC0/A23	DSP_PON	0	0	0	0	DSP power supply ON/OFF control H: ON, L: OFF
70	P46 P46/SC1/A22	SPRY_FA	0	0	0	0	Front A speaker relay control H: ON, L: OFF
71	P45 P45/SC2/A21	SPRY_FB	0	0	0	0	Front B speaker relay control H: ON, L: OFF
72	P44 P44/SC3/A20	CPNT_DET	0	0	0	0	No use

Pin No.	Port Name	Function Name (P.C.B.)	I/O				Detail of Function
			Power On	Stby Thrt	Standby	Stby Sleep	
P43 P43/A19	SPRY_C		0	0	0	0	Center speaker relay control
Vcc2 Vcc2	Vcc2		MCU	MCU	MCU	MCU	Microprocessor power supply
P42 P42/A18	SPRY_S		0	0	0	0	Surround speaker relay control
Vss Vss	Vss		MCU	MCU	MCU	MCU	Microprocessor GND
P41 P41/A17	VOL_SCK		0	0	0	0	Electronic volume Flip-flop synchronous clock output
P40 P40/A16	VOL_MOSI		0	0	0	0	Electronic volume Flip-flop synchronous data output
P37 P37/A15/(D15)	SPRY_SB		0	0	0	0	Surround back/Bi-AMP relay control
P36 P36	SPRY_Z2		0	0	0	0	
P35 P35	SPRY_Z3		0	0	0	0	
P34 P34/A12/(D12)	HPRY		0	0	0	0	Head phone relay control
P33 P33/A11/(D11)	SP_IMP		0	0	0	0	Speaker impedance relay control Set to 8 ohms: Low (Relay OFF, B voltage High) Set to 6 ohms plus during rising temperature: High (Relay ON, B voltage Low)
P32 P32/A10/(D10)	HP_N_DET		1	0	0	0	Headphone detection L: Headphone +3.3S pull up
P31 P31/A9/(D9)	E2R_N_CS		CS	CS	CS	1	EEPROM chip select AI 10 k-ohms pull up to EEPROM power
P124 P123	MUTE_N_Z3		0	0	0	0	
P123 P122	MUTE_N_Z2		0	0	0	0	
P122 P121	HDR_MISO		0	0	0	0	
P121 P121/CLK6	MUTE_N_SW		0	0	0	0	Subwoofer mute control L: Mute
P120 P120	HDR_MOSI		0	0	0	0	
Vcc2 Vcc2	Vcc2		MCU	MCU	MCU	MCU	Microprocessor power supply
P30 P30/A8/(D8)	MUTE_N_SB		0	0	0	0	Surround back/Bi-AMP/Zone2 mute control L: Mute
Vss Vss	Vss		MCU	MCU	MCU	MCU	Microprocessor GND
P27 P27/A7/(D7)/AN27	TUN_N_TUND		1	0	0	0	FM/AM tuner TUNED input +3.3S to 47k then pull up
P26 P26/A6/(D6)/AN26	TUN_N_ST		1	0	0	0	FM/AM tuner STEREO detection input +3.3S to 47k then pull up +3.3S power supply ON/OFF control H: ON, L: OFF
P25 P25/A5/(D5)/AN25	+3.3S_PON		0	0	0	1	AI standby sleep, becomes L [to avoid unnecessary power consumption (Mute, pull Up)] input (HiZ) then mechanically +3.3S power switches on (to function Mute, when power down is detected)
P24 P24/A4/(D4)/AN24	PRY		0	0	0	0	Power relay ON/OFF control H: ON, L: OFF
P23 P23/A3/(D3)/AN23	L_PRT		1	1	0	0	Overcurrent protection detection
P22 P22/A2/(D2)/AN22	MUTE_N_S		0	0	0	0	Surround mute control L: Mute
P21 P21/A1/(D1)/AN21	MUTE_N_C		0	0	0	0	Center mute control L: Mute
P20 P20/A0/(D0)/AN20	MUTE_N_F		0	0	0	0	Front (Headphone is contained) mute control L: Mute
INT5 P17/D15/INT5	ACPWR_DET		IRQ	IRQ	IRQ	IRQ	AC power detection L: Power down
INT4 P16/D14/INT4	PSW_DET		IRQ	IRQ	IRQ	IRQ	Main/Zone/Input key interrupt KEY1 port distinguishes the pressed keys

Pin No.	Port Name	Function Name (P.C.B.)	I/O				Detail of Function
			Power On	Stby Thm	Standby	Stby Sleep	
104	INT3 P15/D13/INT3	REM_IN	IRQ	IRQ	IRQ	0	Remote control pulse input
105	P14	XM_PON	0	0	0	0	
106	P13 P13/D11	DOCK_PON	0	0	0	0	DOCK power supply ON/OFF control H: ON, L: OFF
107	P12 P12/D10	IOXV_N_CS	CS	0	0	0	IO extended IC (for video) chip select
108	P11 P11/D9	IOXV_N_RST	0	0	0	0	IO extended IC (for video) reset
109	P10 P10/D8	PD_LED	0	0	0	0	Pure Direct LED ON/OFF control H: ON, L: OFF
110	P07 P07/D7/AN07	FLD_N_RST	0	0	0	0	FL driver reset
111	P06	PRG_RA	0	0	0	0	
112	P05	PRG_RB	0	0	0	0	
113	P04 P04/D4/AN04	MIC_N_DET	1	0	0	0	MIC detection L: MIC
114	P114 P114	IPD_APDET	1	1	1	1	iPod accessory power detection While iPod boots up (about two seconds) it is set at Low after the boot, it identifies To prevent pulling of iPod high output and microprocessor Low Fix output, switch to constant input
115	P113	VOL_RA	1	0	0	0	Volume rotary A
116	P112	SR_MISO	0	0	0	0	
117	P111 P111/INPC11/ OUTC11/ISCLK1	VOL_RB	1	0	0	0	Volume rotary B
118	P110	SR_MOSI	0	0	0	0	
119	P03	SR_PON	0	0	0	0	
120	P02 P02/D2/AN02	SEL_PD	0	0	0	0	DSP Pure Direct route select H: Pure Direct ON ADC power down L: Power down
121	P01 P01/D1/AN01	ADC_N_PDWN	0	0	0	0	FL driver chip select
122	P00 P00/D0/AN00	FLD_N_CS	CS	0	0	0	
123	P157	L3_DET	0	0	0	0	
124	ANI56 P156/ANI156/CLK6	THM	AD	AD	0	0	Temperature detection
125	ANI55 P155/ANI155/RXD6	AMP_OLV	AD	AD	0	0	Power AMP output level detection
126	ANI54 P154/ANI154/TXD6	DC_PRT	AD	AD	0	0	Power AMP DC detection
127	ANI53 P153/ANI153/CTS5/ RTS5	MODEL	AD	AD	0	0	Destination discrimination by AD value When AD is taken in at power on, there is 1m sec waiting time after AD input port setting
128	ISRXD0 P152/ANI152/ ISRXD0/RXD5	E2R_MISO	SI	SI	SI	0	Synchronous data input for EEPROM
129	ISCLK0 P151/ANI151/ISCLK0/ CLK5	FLD_SCK	SO	SO	SO	0	FL driver, OSD, IO extended IC (Video), series 1 k-ohms go into synchronous clock output for EEPROM FL driver
130	VSS VSS	VSS	MCU	MCU	MCU	MCU	Microprocessor GND
131	ISTXD0 P150/ANI150/ISTXD0/ TXD5	FLD_MOSI	SO	SO	SO	0	FL driver, OSD, IO extended IC (Video), series 1 k-ohms go into synchronous data output for EEPROM FL drive
132	VCC1 VCC1	VCC1	MCU	MCU	MCU	MCU	Microprocessor power supply
133	AN7 P107/AN7/K13/RTP33	KEY1	AD	AD	AD	1	KEY1 AD value laken in During PSW_DET interruption, distinguishes the used keys which are switched to AD

Pin No.	Port Name	Function Name (P.C.B.)	I/O				Detail of Function
			Power On	Stby Thrt	Standby	Stby Sleep	
134	AN6 P106/AN6/K12/RTP32	KEY2	AD	AD	AD	O	KEY2 AD value taken in During PSW_DET interruption, distinguishes the used keys which are switched to AD
135	AN5 P105/AN5/K11/RTP31	PS1_PRT	AD	AD	O	O	PS protection detection 1
136	AN4 P104/AN4/K10/RTP30	PS2_PRT	AD	AD	O	O	PS protection detection 2
137	P103	ISEL_RA	O	O	O	O	
138	P102	ISEL_RB	O	O	O	O	
139	AN1 P101/AN1/RTP11	DEST	AD	AD	AD	O	AD destination discrimination Data is taken in when resetting is cancelled
140	AVss AVss	AVss	MCU	MCU	MCU	MCU	Microprocessor GND
141	AN0 P100/AN0/RTP10	DOCK_TYPE	AD	AD	AD	O	DOCK discriminate Identifies the connected DOCK type, then switches the action During IPD_DET interruption, switches to AD, make a distinction based on post-10 ms A/D value Make a distinction from IPD_DET's Low edge through post-10 ms A/D value
142	Vref Vref	VREF	MCU	MCU	MCU	MCU	Microprocessor power supply
143	AVcc AVcc	AVcc	MCU	MCU	MCU	MCU	Microprocessor power supply
144	RXD4 P97/ADTRG/RXD4/ SCL4/STXD4	IPD_MISO	SI	I	I	O	Asynchronous data input for iPod To prevent pulling of iPod High output and microprocessor Low Fix output, input setup

Key deletion for A/D port!

Key input (A/D) pull-up resistance 10 k-ohms

Ohm	0	+ 1.0k	+ 1.0k	+ 1.5k	+ 1.5k	+ 1.5k	+ 2.2k	+ 3.3k	+ 4.7k	+ 22.0k	+ 33.0k
V	0 - 0.15	0.15 - 0.42	0.43 - 0.70	0.71 - 0.97	0.98 - 1.24	1.25 - 1.53	1.54 - 1.84	1.84 - 2.1	2.14 - 2.4	2.44 - 2.65	2.66 - 2.97
A/D value (3.3 V=255)	0 - 11	12 - 32	33 - 54	55 - 75	76 - 95	96 - 118	119 - 142	143 - 162	161 - 197	198 - 229	
KEY1 (133 pin)	SCENE RADIO	SCENE OD	SCENE TV	SCENE BD/DVD	-	-	PROGRAM >	PROGRAM <	STANDBY/ ON	TONE CONTROL	

Ohm	0	+ 1.0k	+ 1.0k	+ 1.5k	+ 1.8k	+ 2.2k	+ 3.3k	+ 4.7k	+ 6.8k	+ 10.0k	+ 22.0k	+ 68.0k
V	0 - 0.15	0.15 - 0.42	0.43 - 0.70	0.71 - 0.99	1.0 - 1.27	1.28 - 1.56	1.57 - 1.86	1.86 - 2.14	2.14 - 2.4	2.4 - 2.65	2.66 - 2.91	2.92 - 3.17
A/D value (3.3 V=255)	0 - 11	12 - 32	33 - 54	55 - 77	78 - 98	99 - 120	121 - 143	144 - 165	166 - 185	186 - 205	206 - 225	226 - 245
KEY2 (134 pin)	DIRECT	STRAIGHT	INFO	MEMORY	PRESET	PRESET	CATEGORY < FM	CATEGORY > AM	TUNING CH	TUNING CH	INPUT	INPUT

Destination deletion for A/D port!

Destination input (A/D) pull-up resistance 10 k-ohms

Ohm	0	1.2k	2.7k	4.7k	8.8k	10.0k	15.0k	4.70k	100.0k
(R3809 VIDEO P.C.B.)									
V	0 - 0.2	0.2 - 0.6	0.6 - 0.9	0.9 - 1.2	1.2 - 1.5	1.5 - 1.8	1.8 - 2.3	2.4 - 2.9	2.9 - 3.2
A/D value (3.3 V=255)	0 - 15	16 - 46	46 - 69	69 - 92	92 - 115	115 - 139	139 - 177	185 - 224	224 - 247
DEST (139 pin)	J	U	C	R	T	K	A	B, G, E, F	L

Model deletion for A/D port


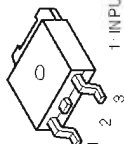
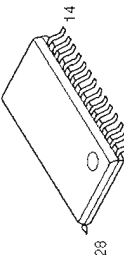
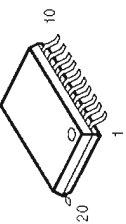
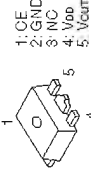
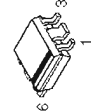
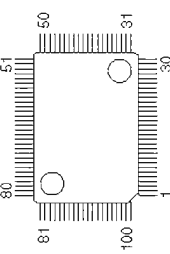
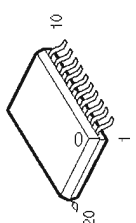
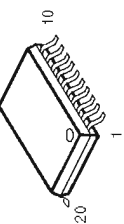
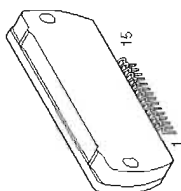
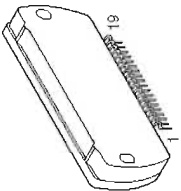
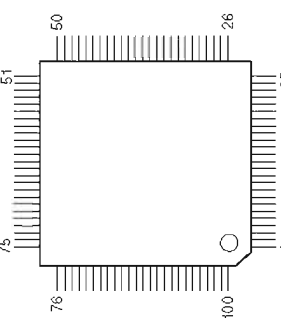
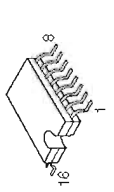
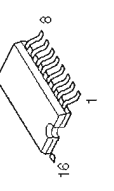
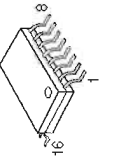
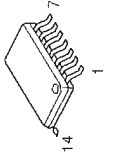
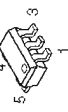

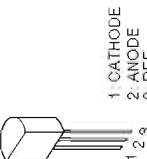
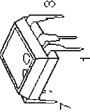
Model input (A/D) pull-up resistance 10 k-ohms

Ohm	2.2k	3.9k
V	0.5 - 0.8	0.8 - 1.1
A/D value (3.3 V=255)	40 - 52	85 - 176
MODEL (127 pin)	RX-V565/ AX-V565	HTR-6250












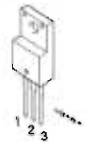

■ PIN CONNECTION DIAGRAMS

• ICs















<p>ABT1012Q100</p>	<p>ADV7800BSTZ-80</p>	<p>BD9323EFJ-E2</p>
<p>D70YE101BRFP266 M30878JBGF SH9233ACTU</p>	<p>FHP3350IM14X</p>	<p>K4S641632N-LC60000</p>
<p>KIAT912PI</p>	<p>LA73050-TLM-E</p>	<p>LC709004A-TLM-E LC74782JM-8A16-TLMC</p>
<p>LC89058WD-E</p>	<p>LE25LA322M-TLM-E</p>	<p>LM19CIZ/LF</p>
<p>LC72725KM-UY-TLM-E</p>	<p>M66003-0131FP-R</p>	<p>MX29LV160DBT1-70G</p>
<p>NJM2388F05</p> <p>1. Vin 2. Vout 3. GND 4. ON/OFF CONTROL</p>	<p>NJM2581M</p>	<p>NJM2396F05</p> <p>1. IN 2. Vout 3. GND 4. ON/OFF CONTROL</p>
<p>NJM4565M NJM4565M (TE1)</p>	<p>NJM2867F3-05</p>	<p>NJM2867F3-05</p>

<p>NJM7812FA</p>  <p>3: IN 1: OUT 2: COM</p>	<p>NJM78M05DL1A (TE1)</p>  <p>1: INPUT 2: GND 3: OUTPUT</p>	<p>PCM1680DBQR</p>  <p>1, 4 20</p>
<p>PCM1803DBR</p>  <p>1, 10 20</p>	<p>R1172H181B-T1-F R1172H331D-T1-F R1172H501D-T1-F</p>  <p>1: OE 2: GND 3: NC 4: Vop 5: Vout</p>	<p>R1172S121D-E2-F</p>  <p>1, 3, 6, 80</p>
<p>R2A15220FP</p>  <p>1, 31, 50, 76, 80, 100</p>	<p>SN74LVC245APWR</p>  <p>1, 10, 20</p>	
<p>SN74LVTH245APW</p>  <p>1, 10, 20</p>	<p>STK433-130-E</p>  <p>1, 15</p>	<p>STK433-330-E</p>  <p>1, 19</p>
<p>SiI9134CTU</p>  <p>1, 25, 26, 50, 51, 75, 76, 100</p>		
<p>TC74HC4051AFEL TC74HC4052AF</p>  <p>1, 8, 10, 16</p>	<p>TC74HC4053AF</p>  <p>1, 8, 10, 16</p>	<p>TC74VHC157FT</p>  <p>1, 4, 7, 8, 16</p>
<p>TC74VHCT08AFT TC74VHCU04FT</p>  <p>1, 4, 7, 14</p>	<p>TC7SH04FU-TE85L TC7SH08FU</p>  <p>1, 3, 4, 5</p>	
<p>TC7WZ32FK (TE85L, F)</p>  <p>1, 4, 8</p>	<p>TL431ACLPR</p>  <p>1: CATHODE 2: ANODE 3: REF</p>	<p>TOP254PN</p>  <p>1, 3, 4, 7, 8</p>

• Diodes

<p>1N4002S 1SS133 1SS176 1SS270A</p> 	<p>1SS355</p> 	<p>DB105</p> 	<p>KDS160-RTK</p> 	
<p>HT18G</p> 	<p>MAZ8033GHL 3.4V MAZ8043GHL 4.4V MAZ8091GML 9.1V</p> 	<p>MTZJ10B MTZJ15B MTZJ22C MTZJ3.3B MTZJ39D MTZJ5.1B MTZJ6.8C</p> 	<p>P6KE200ARL</p> 	
<p>RB051L-40</p> 	<p>RB051V-40 UDZ5.1B</p> 	<p>RS203M-B-C-J80</p> 	<p>SG10SC4M</p> 	<p>TS6P103G 6.0A 200V</p> 

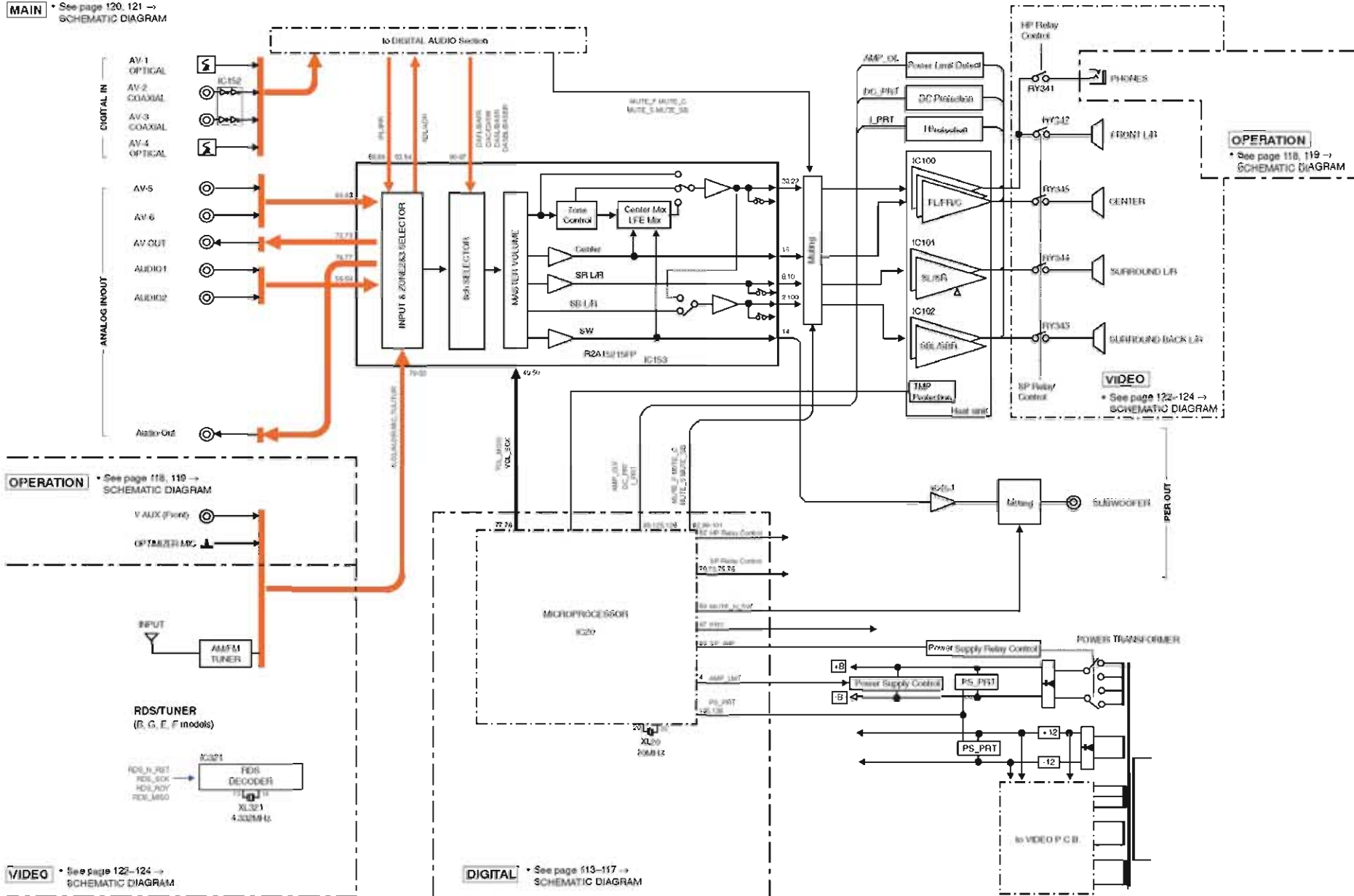
• Transistors

<p>2N5401C-AT/P 2SA1015-Y</p> 	<p>2N5551C-AT</p> 	<p>2SA1576A</p> 	<p>2SB1274</p> 	<p>2SC1740S</p> 	<p>2SC1815 Y 2SC1815 Y TP</p> 
<p>2SC2412K</p> 	<p>2SC4081 T106</p> 	<p>2SD1938F</p> 	<p>DTA114EKA DTA144EKA DTC114EKA DTC144EKA</p> 	<p>KRA104S-RTK KRC102S-RTK</p> 	
<p>KTA1046-Y-U/P</p> 	<p>KTC9875S</p> 	<p>MCH0336-TL-E</p> 			

■ BLOCK DIAGRAMS

ANALOG AUDIO Section Block Diagram

MAIN • See page 120, 121 → SCHEMATIC DIAGRAM



OPERATION • See page 118, 119 → SCHEMATIC DIAGRAM

RDS/TUNER (R, G, E, F models)

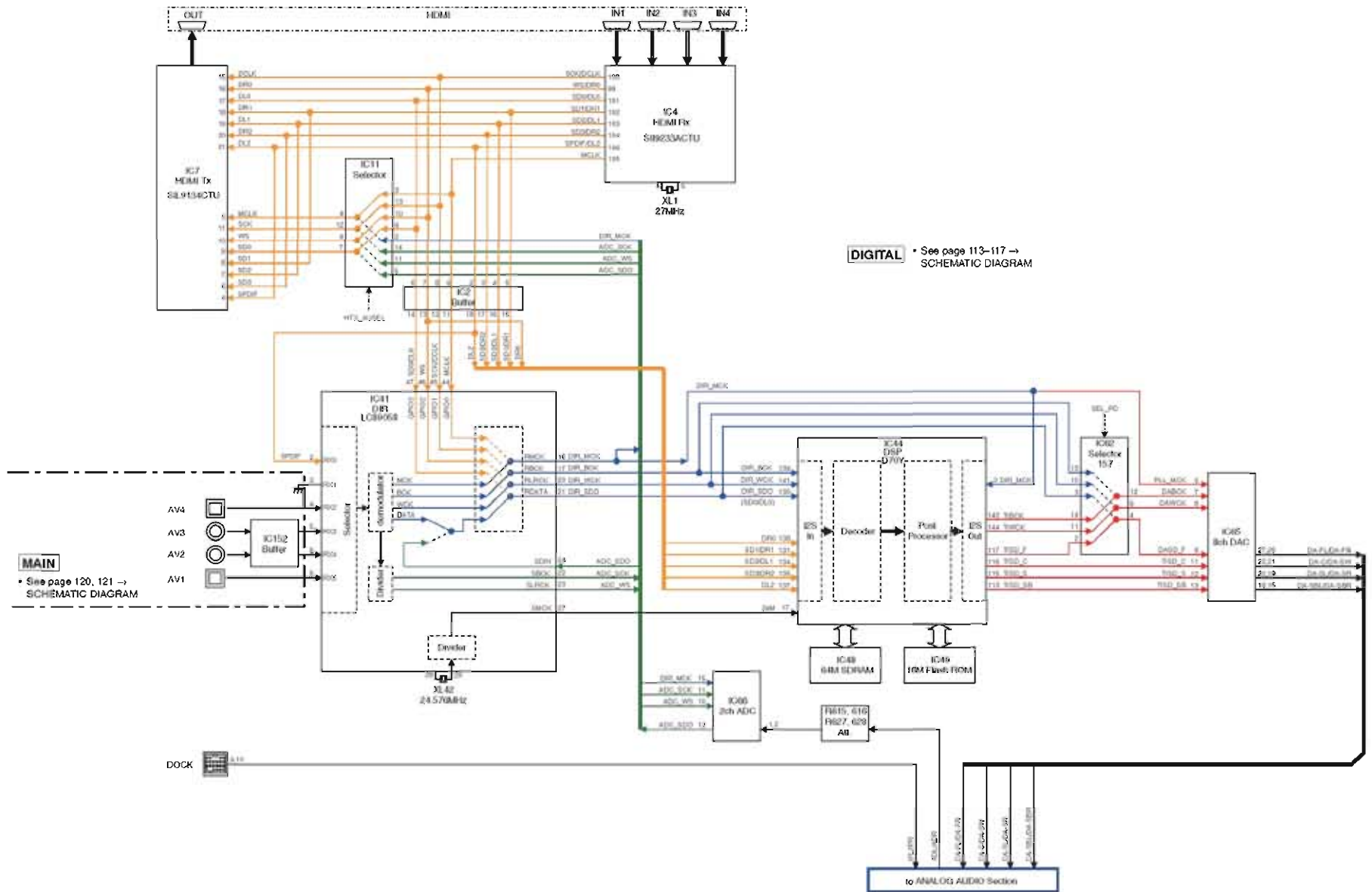
VIDEO • See page 122-124 → SCHEMATIC DIAGRAM

DIGITAL • See page 113-117 → SCHEMATIC DIAGRAM

OPERATION • See page 118, 119 → SCHEMATIC DIAGRAM

VIDEO • See page 122-124 → SCHEMATIC DIAGRAM

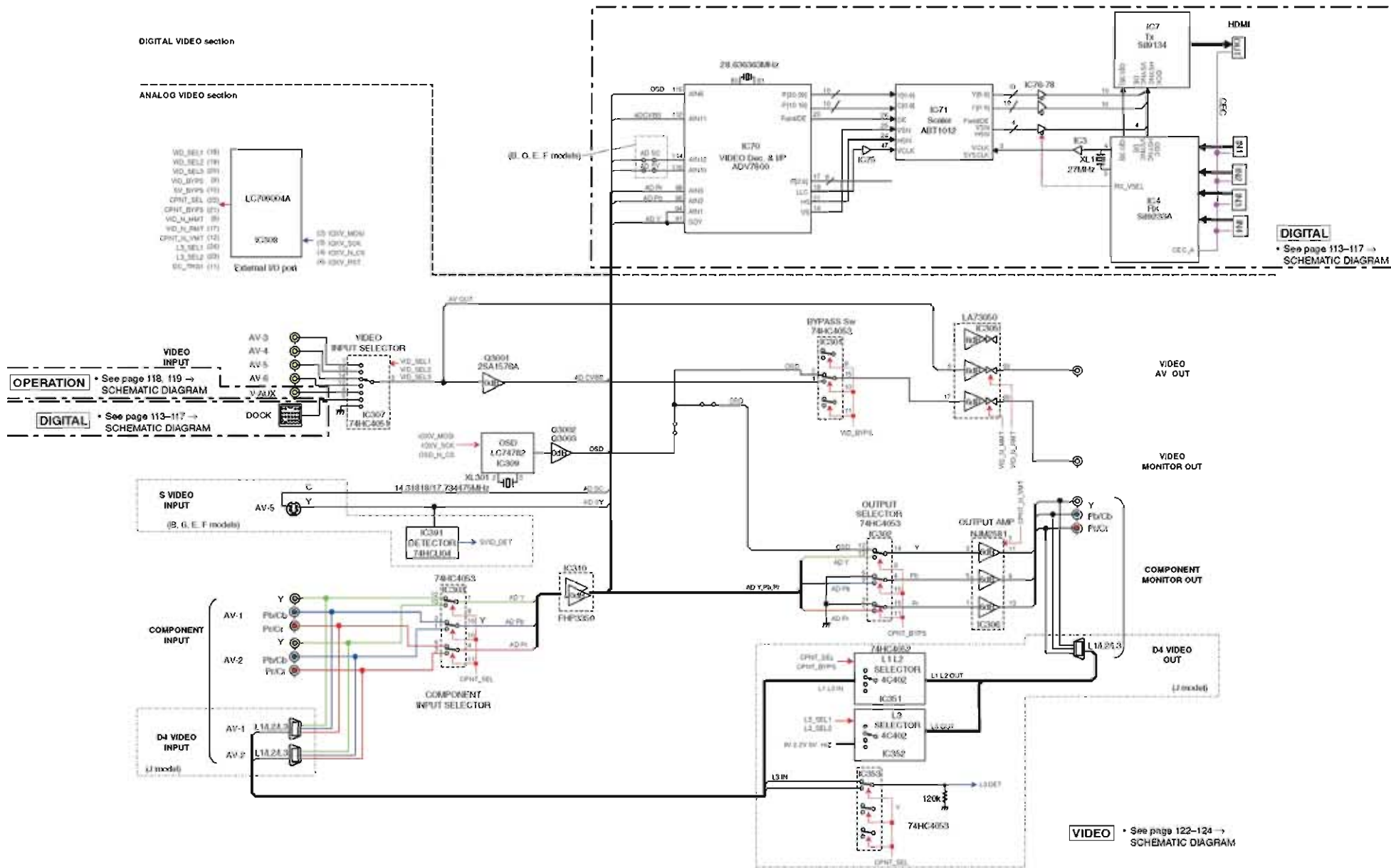
DIGITAL AUDIO Section Block Diagram



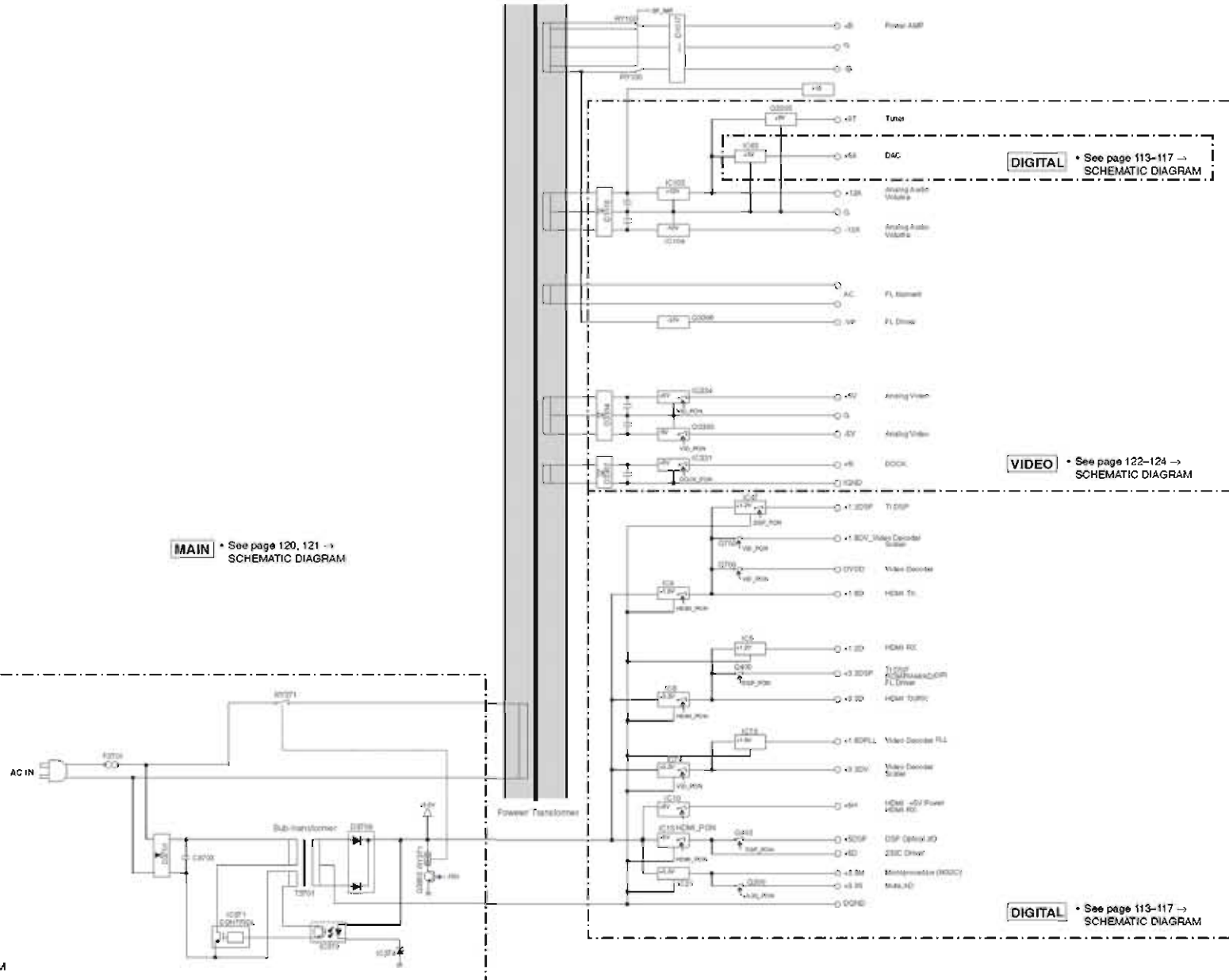
DIGITAL • See page 113-117 → SCHEMATIC DIAGRAM

MAIN • See page 120, 121 → SCHEMATIC DIAGRAM

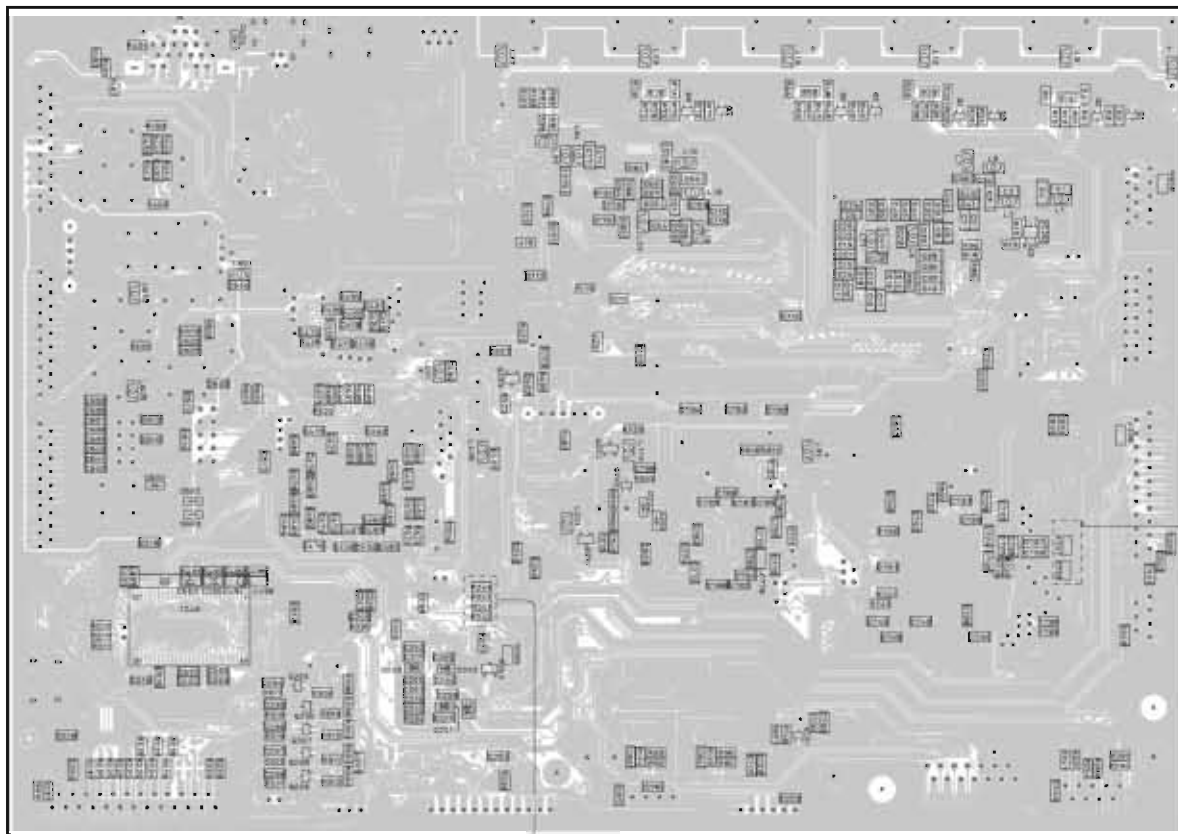
VIDEO Section Block Diagram



Power Supply Section Block Diagram



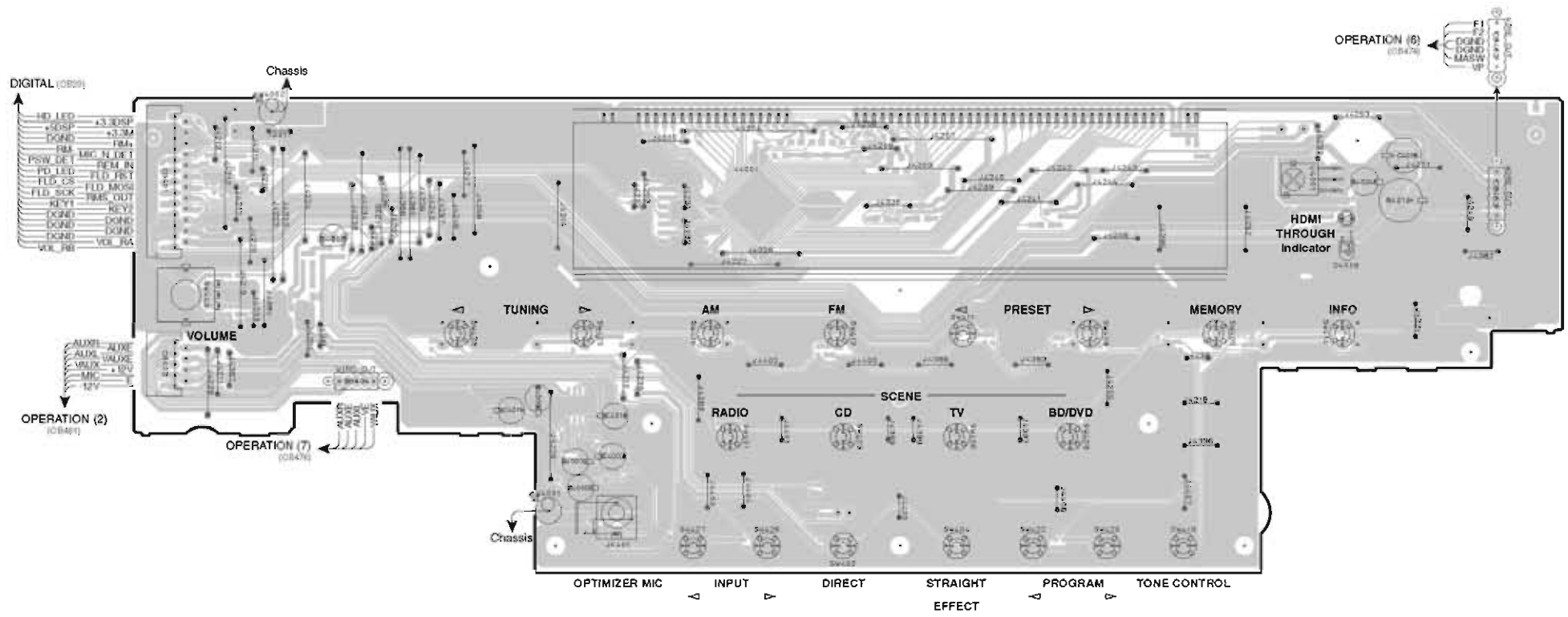
DIGITAL P.C.B. (Side B)



• Semiconductor Location

Ref No.	Location
D201	D6
D202	D6
D203	D6
D204	D6
D404	C3
D600	C5
D602	C5
D603	C5
D702	E5
D703	E5
IC3	G4
IC4B	C5
Q1	G3
Q2	G3
Q3	G3
Q4	F3
Q5	F3
Q6	F3
Q7	E3
Q8	E3
Q201	E5
Q202	D6
Q205	C6
Q206	C6
Q207	C6
Q208	C6
Q209	C6
Q403	D4
Q404	E5
Q701	F6
Q703	E5

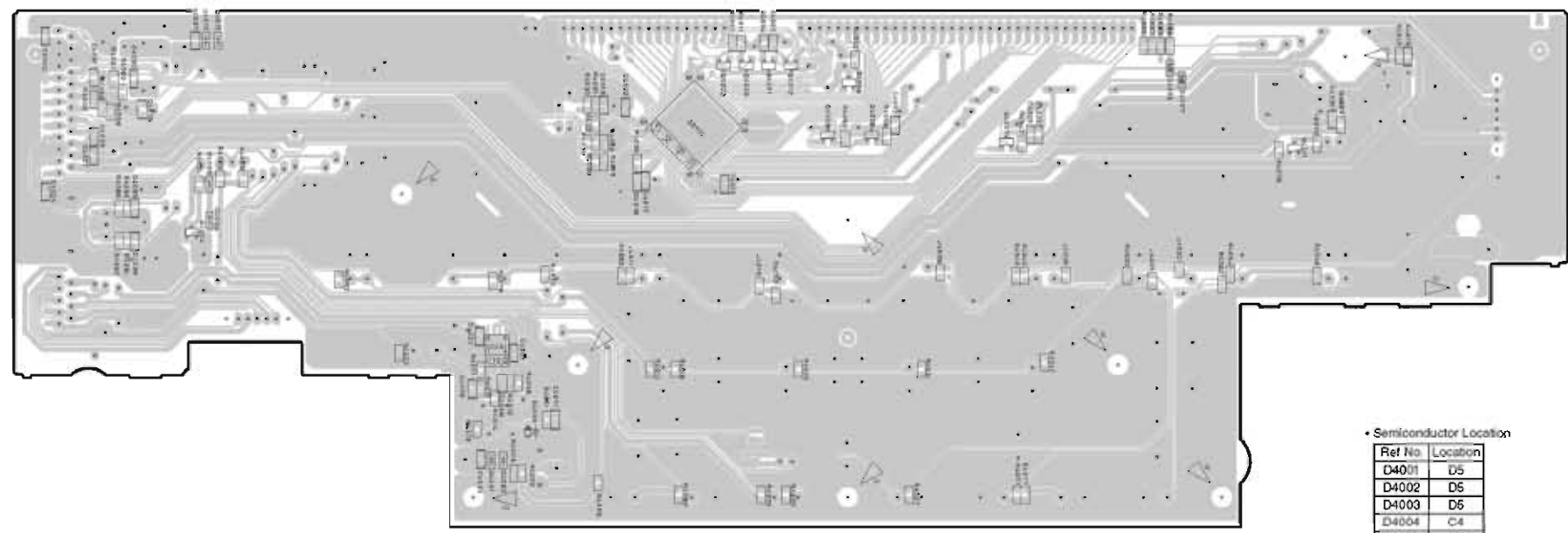
OPERATION (1) P.C.B. (Side A)



• Semiconductor Location

Ref No.	Location
Q4009	I3
Q4005	C3

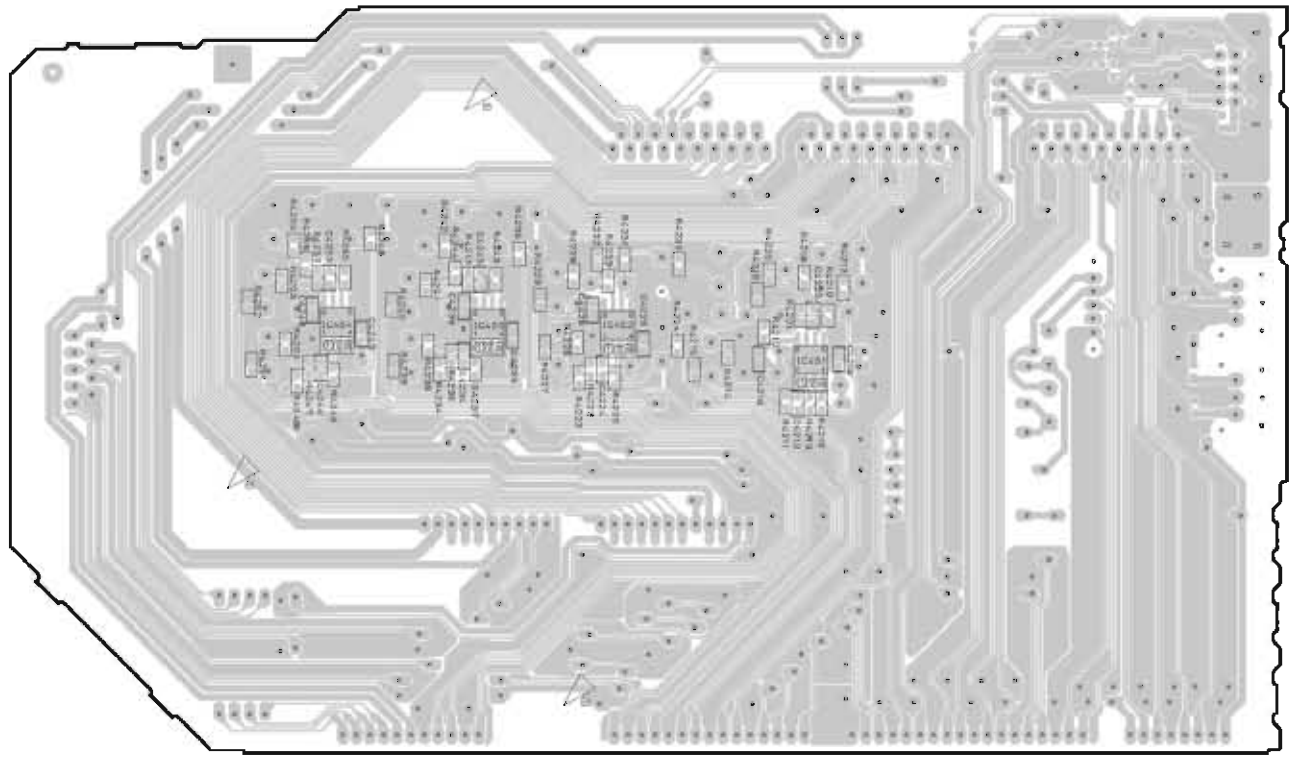
OPERATION (1) P.C.B. (Side B)



• Semiconductor Location

Ref No.	Location
D4001	D5
D4002	D5
D4003	D5
D4004	C4
D4005	C3
D4006	H3
D4007	H3
D4010	C3
D4012	C3
IC401	D4
IC402	E5
Q4001	F3
Q4002	E3
Q4003	F3
Q4004	C4
Q4006	F3
Q4007	G3
Q4008	F3
Q4009	F3
Q4011	I3
Q4012	F3

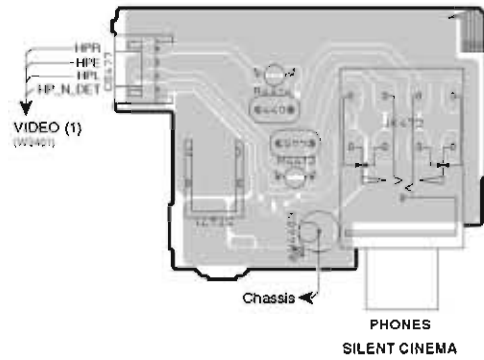
OPERATION (2) P.C.B. (Side B)



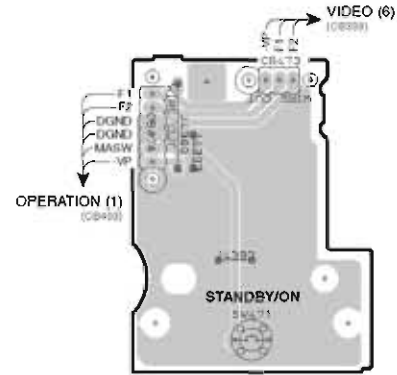
• Semiconductor Location

Ref No	Location
IC451	F4
IC452	E4
IC453	E4
IC454	D4

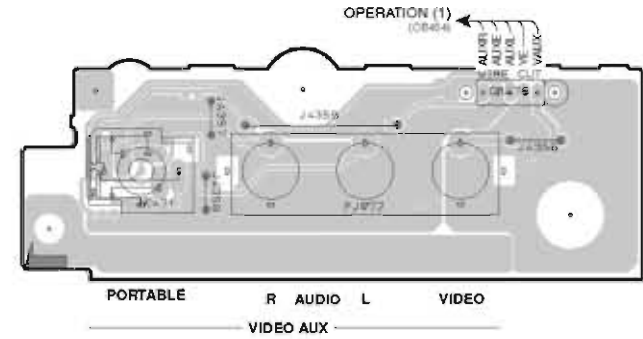
OPERATION (3) P.C.B. (Side A)



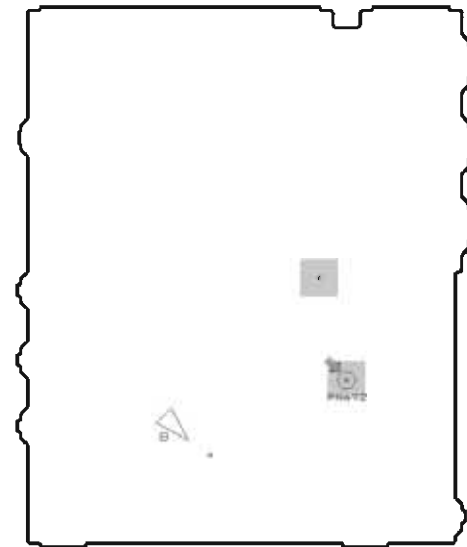
OPERATION (6) P.C.B. (Side A)



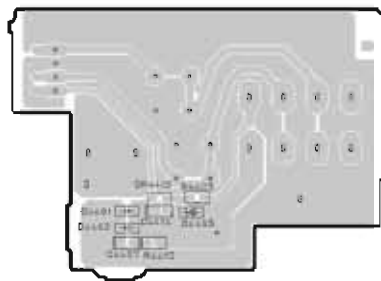
OPERATION (7) P.C.B. (Side A)



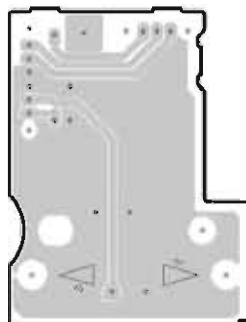
OPERATION (10) P.C.B. (Side A)



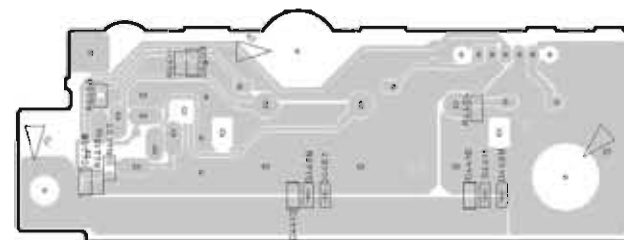
OPERATION (3) P.C.B. (Side B)



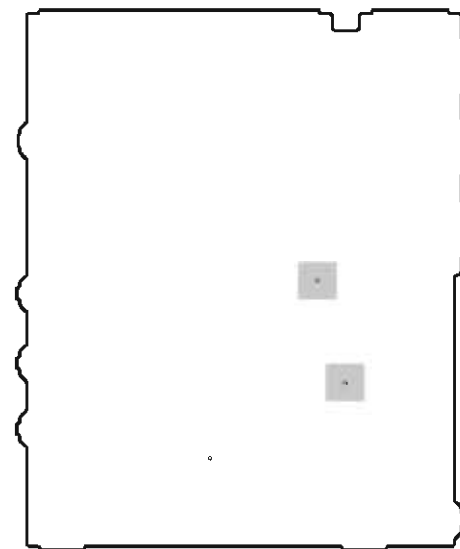
OPERATION (6) P.C.B. (Side B)



OPERATION (7) P.C.B. (Side B)



OPERATION (10) P.C.B. (Side B)



• Semiconductor Location

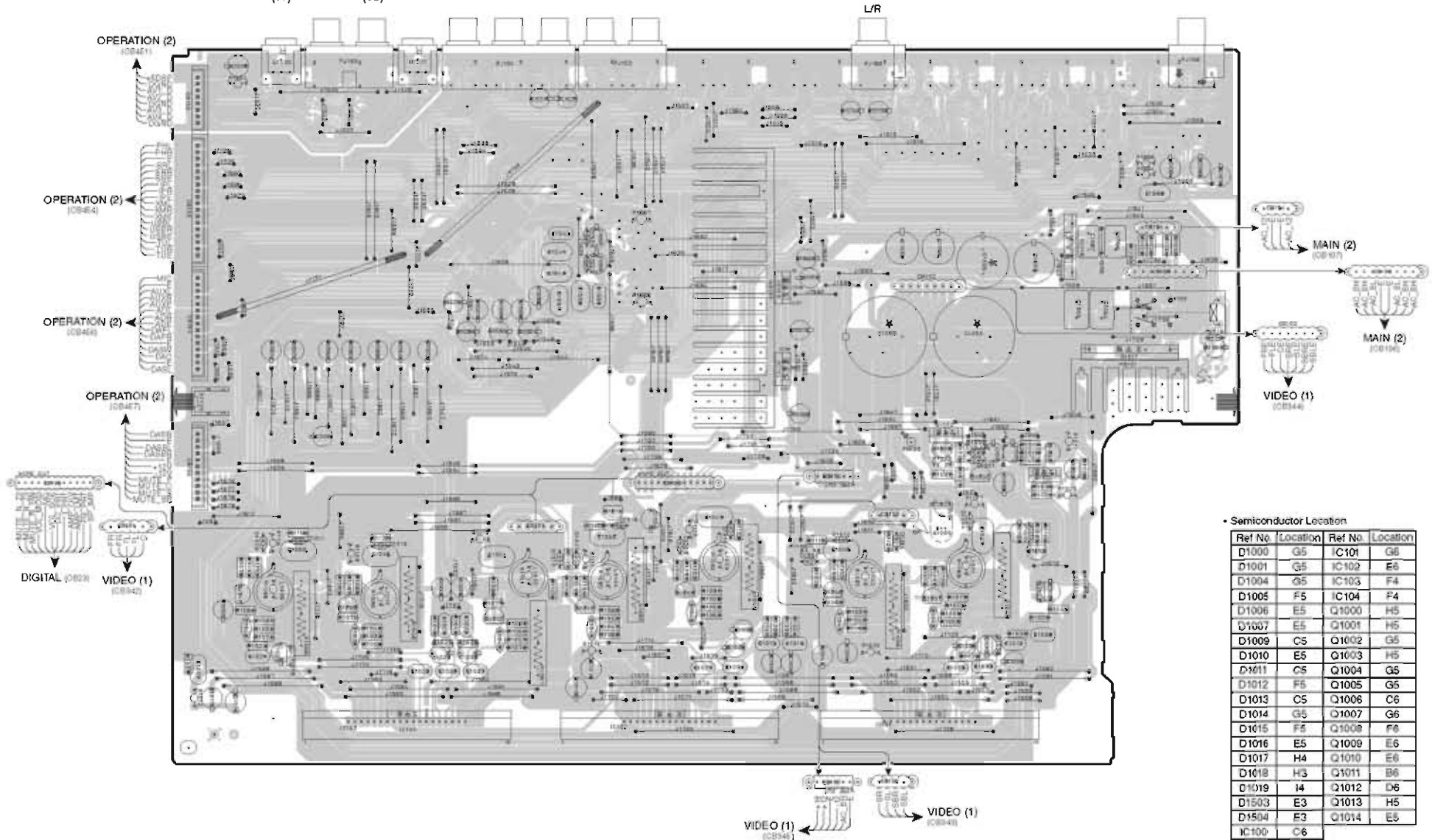
Ref No.	Location
D4401	B3
D4402	B3
D4403	B3
D4406	H3
D4407	H3
D4409	I3
D4411	I3

MAIN (1) P.C.B. (Side A)

— AV1 — AV2 — AV3 — AV4 — AV5 — AV6 — AV OUT — AUDIO1 — AUDIO2 —
 OPTICAL COAXIAL COAXIAL OPTICAL
 (TV) (CD)

— AUDIO —
 OUT

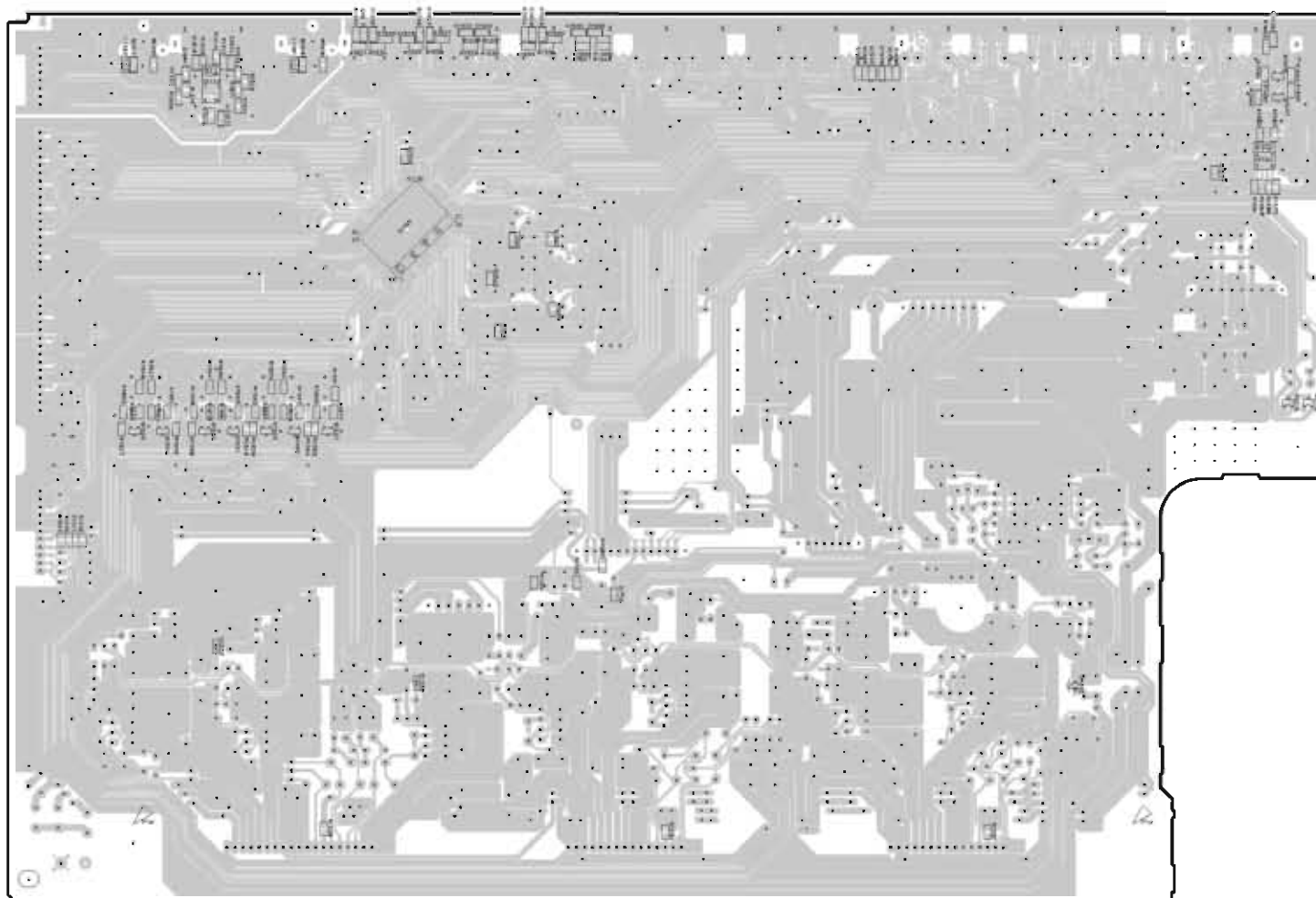
— PRE OUT —
 SUBWOOFER



• Semiconductor Location

Ref No	Location	Ref No	Location
D1000	G5	IC101	G8
D1001	G5	IC102	E6
D1004	G5	IC103	F4
D1005	F5	IC104	F4
D1006	E5	Q1000	H5
D1007	E5	Q1001	H5
D1009	C5	Q1002	G5
D1010	E5	Q1003	H5
D1011	C5	Q1004	G5
D1012	F5	Q1005	G5
D1013	C5	Q1006	C6
D1014	G5	Q1007	G6
D1015	F5	Q1008	F6
D1016	E5	Q1009	E6
D1017	H4	Q1010	E6
D1018	H3	Q1011	B6
D1019	I4	Q1012	D6
D1503	E3	Q1013	H5
D1504	F3	Q1014	E5
IC100	C6		

MAIN (1) P.C.B. (Side B)



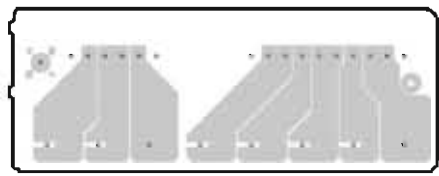
• Semiconductor Location

Ref No	Location
D1002	H6
D1003	C5
D1008	D6
IC152	C2
IC153	D3
IC154	I3
Q1015	I4
Q1016	H4
Q1501	D4
Q1502	C4
Q1504	C4
Q1507	I2
Q1509	I2
Q1520	C4
Q1521	C4
Q1524	C4
Q1525	C4

A B C D E F G H I J

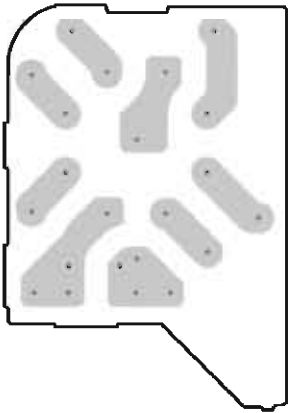
1
2
3
4
5
6
7

MAIN (2) P.C.B. (Side B)



MAIN (3) P.C.B. (Side B)

R, L models

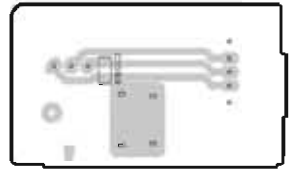


MAIN (4) P.C.B. (Side B)

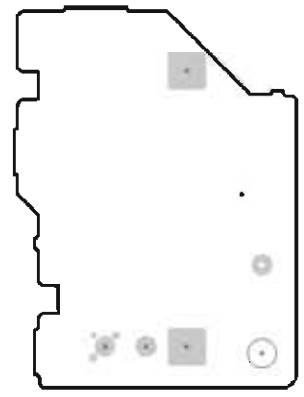
R, L models



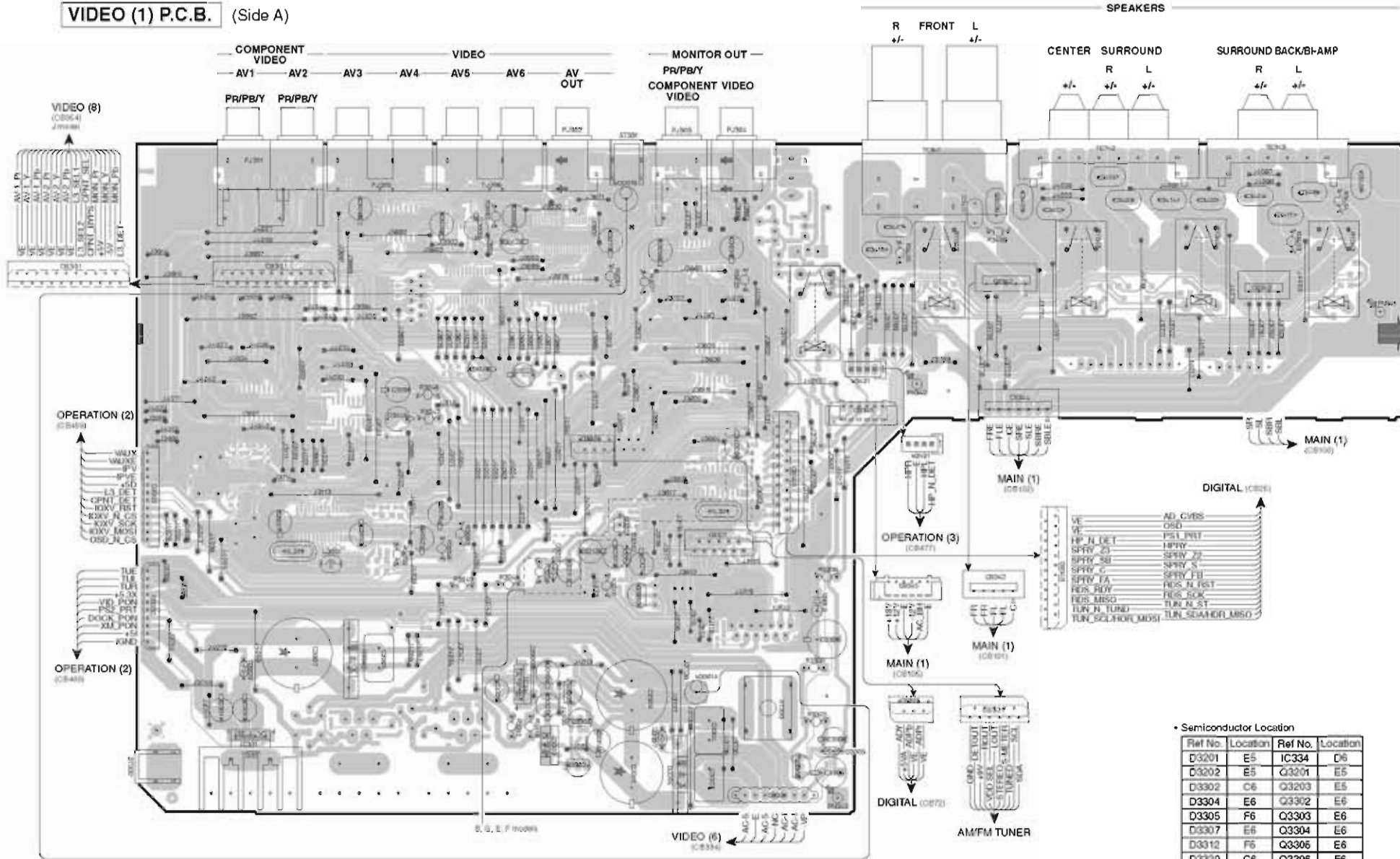
MAIN (5) P.C.B. (Side B)



MAIN (6) P.C.B. (Side B)



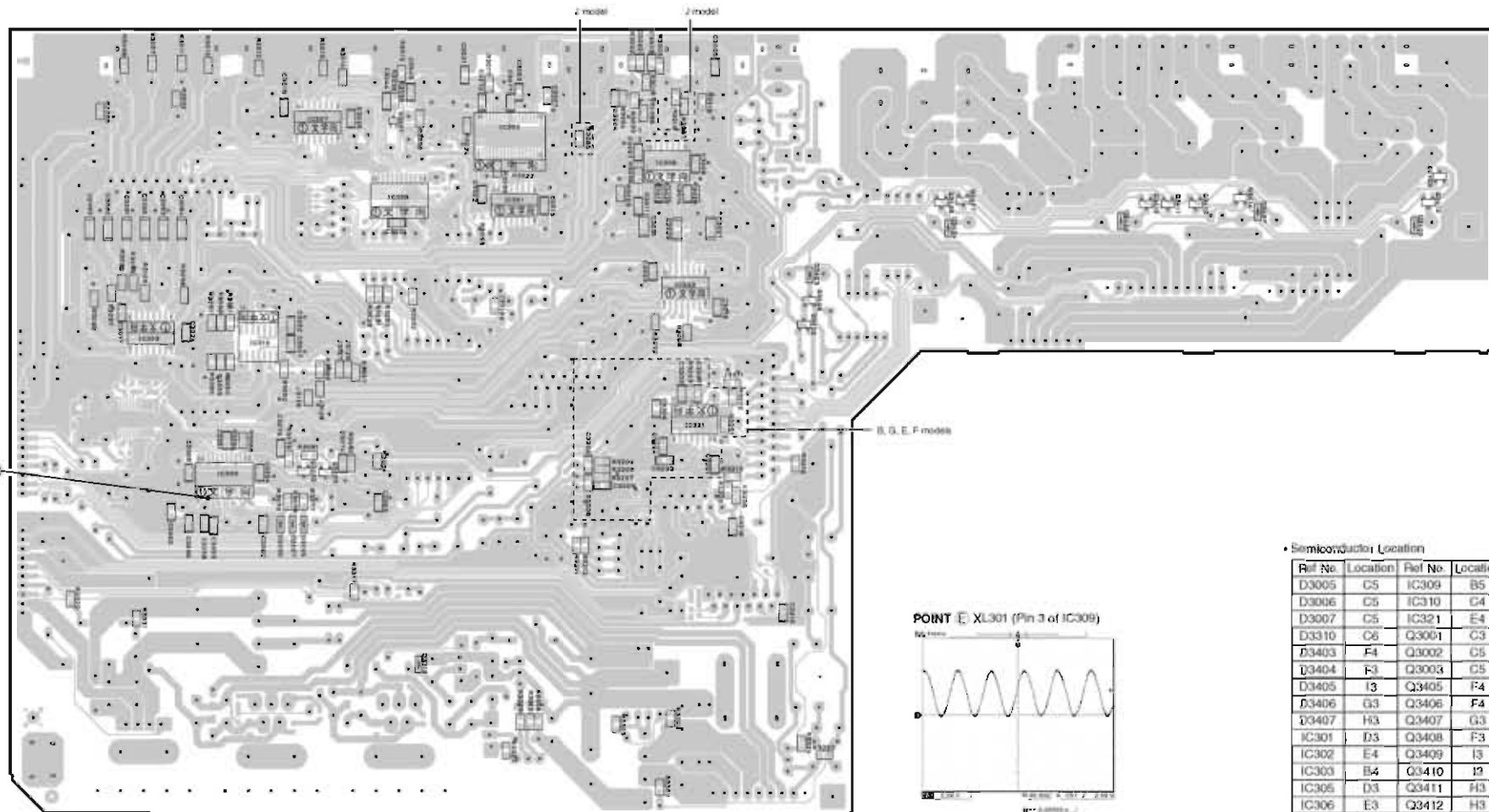
VIDEO (1) P.C.B. (Side A)



• Semiconductor Location

Ref No.	Location	Ref No.	Location
D3201	E5	IC334	D6
D3202	E5	Q3201	E5
D3302	C6	Q3203	E5
D3304	E6	Q3302	E6
D3305	F6	Q3303	E6
D3307	E6	Q3304	E6
D3312	F6	Q3306	E6
D3320	C6	Q3308	F6
IC331	C6		

VIDEO (1) P.C.B. (Side B)



• Semiconductor Location

Ref No.	Location	Ref No.	Location
D3005	C5	IC309	B5
D3006	C5	IC310	C4
D3007	C5	IC321	E4
D3310	C6	Q3001	C3
D3403	F4	Q3002	C5
D3404	F3	Q3003	C5
D3405	I3	Q3405	F4
D3406	G3	Q3406	F4
D3407	H3	Q3407	G3
IC301	D3	Q3408	F3
IC302	E4	Q3409	I3
IC303	B4	Q3410	I2
IC306	D3	Q3411	H3
IC306	E3	Q3412	H3
IC307	C3	Q3413	H3
IC308	C3	Q3414	H3

Notes)

Safety measures

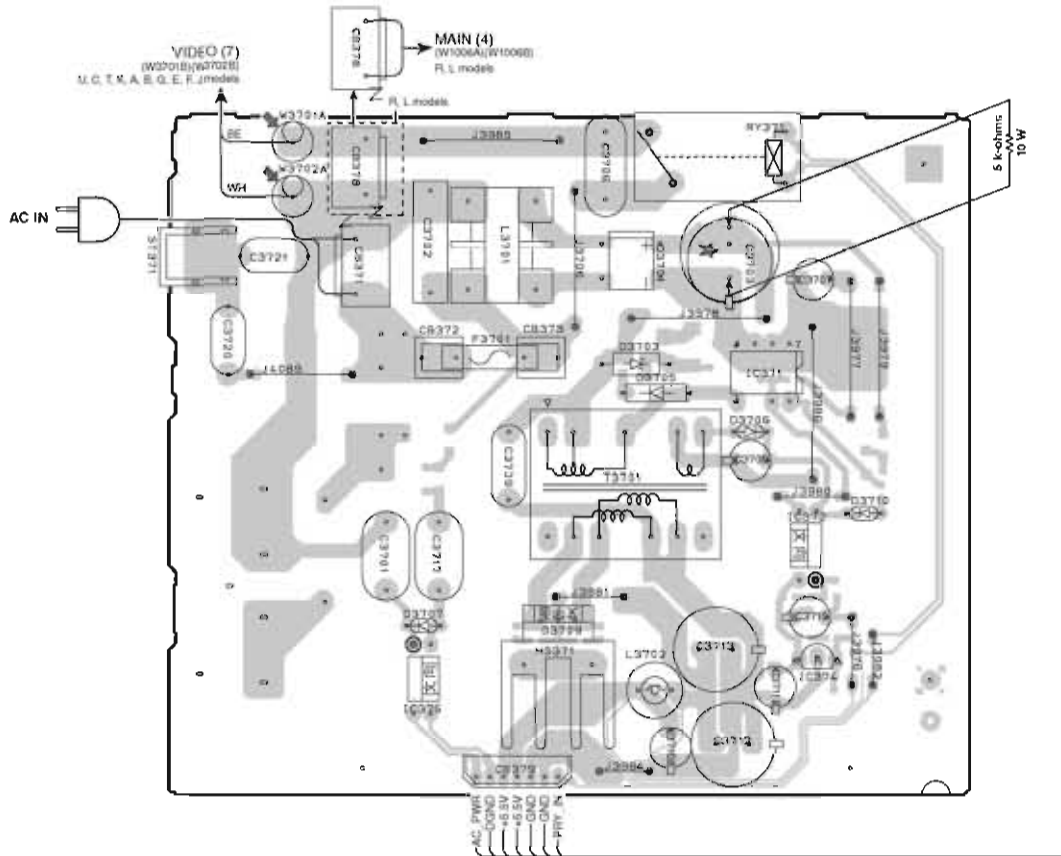
- Since internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- Note that positions indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there. Before starting any repair work, perform discharge by connecting a discharge resistor (2k-ohms/10W) between terminals at following positions. The time required for discharging is about 30 seconds.
C3703 on VIDEO (2) P.C.B.

注意)

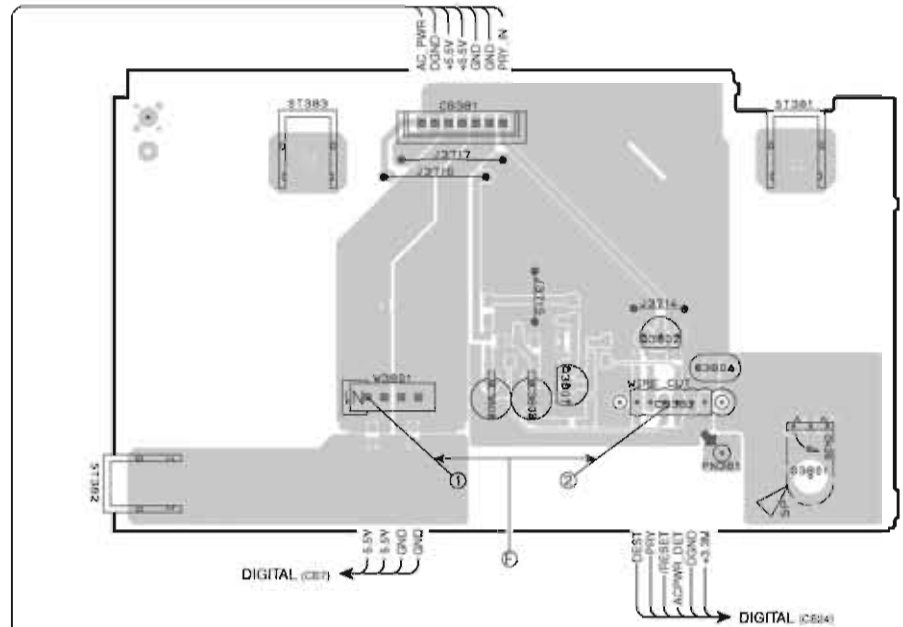
安全対策

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- 下記箇所には電源を OFF にした後も電圧が残り、高電圧が維持されており危険です。修理作業前に放電用抵抗 (5 kΩ/10 W) を下記箇所の端子間に接続して放電してください。放電所要時間は約 30 秒間です。
VIDEO (2) P.C.B. の C3703

VIDEO (2) P.C.B. (Side A)



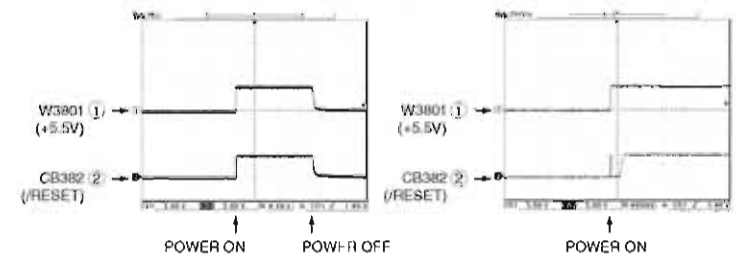
VIDEO (3) P.C.B. (Side A)



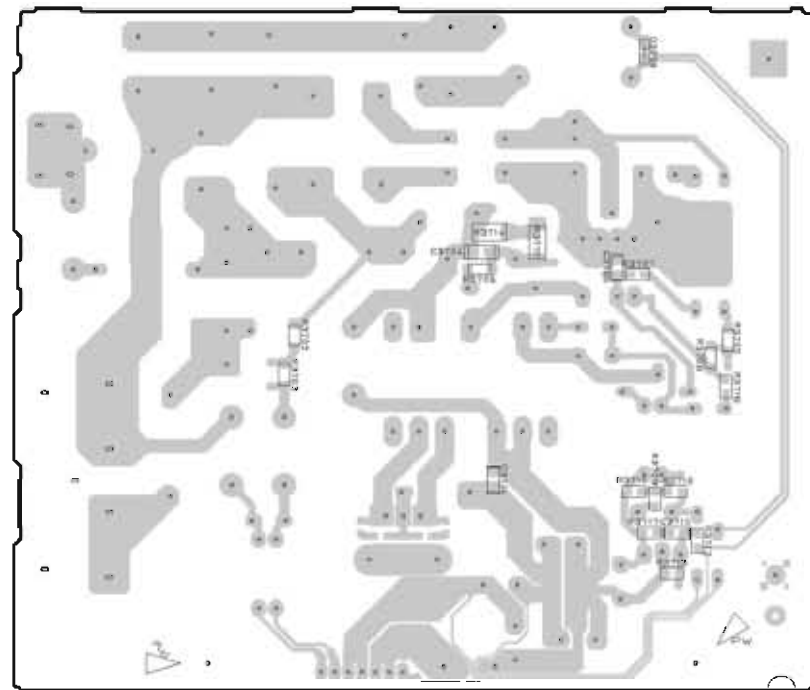
Semiconductor Location

Ref No.	Location	Ref No.	Location
D3701	D3	IC371	E3
D3703	D3	IC372	E4
D3705	D3	IC374	E5
D3706	E4	IC375	C5
D3707	C4	Q3801	H4
D3709	D4	Q3802	H4
D3710	E4		

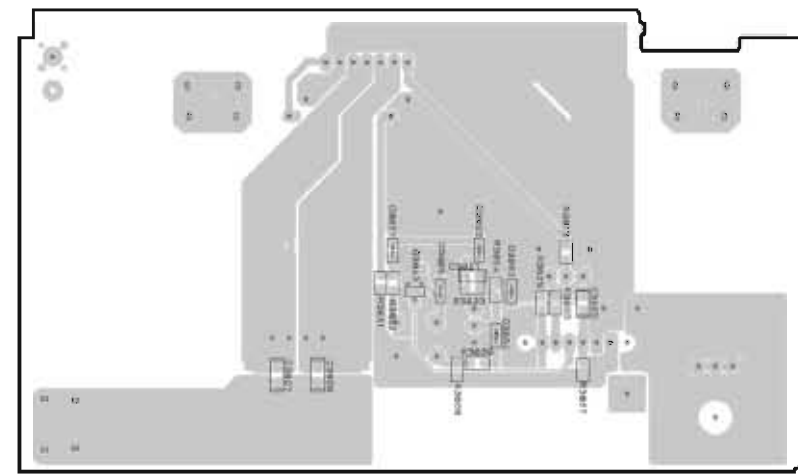
POINT (1) W3801 (+5.5V), (2) CB382 (RESET)



VIDEO (2) P.C.B. (Side B)



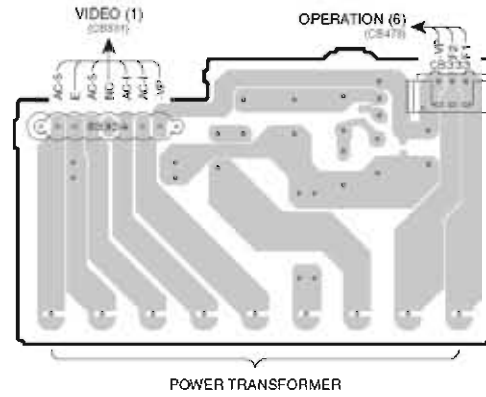
VIDEO (3) P.C.B. (Side B)



• Semiconductor Location

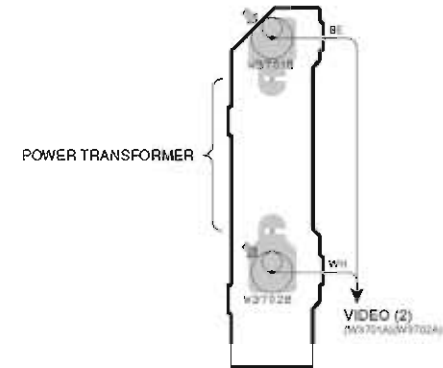
Ref No.	Location
D3708	D2
D3801	H4
D3802	H4
D3803	H4
D3804	H4
D3805	H4
Q3803	H4

VIDEO (6) P.C.B. (Side A)



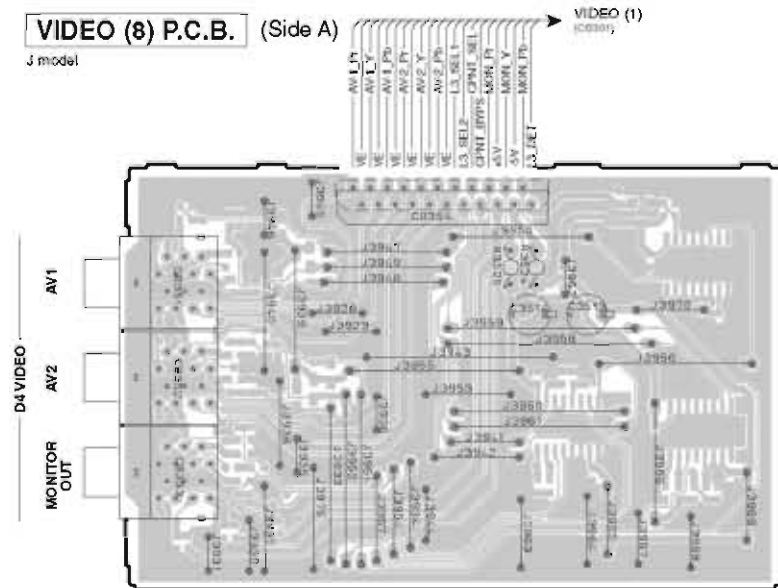
VIDEO (7) P.C.B. (Side A)

U, C, T, K, A, B, G, E, F, J models



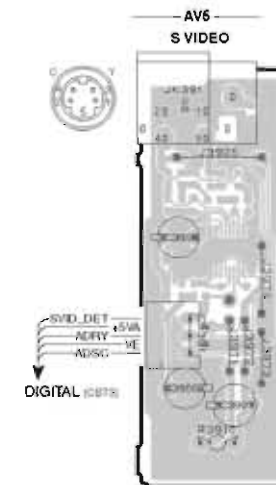
VIDEO (8) P.C.B. (Side A)

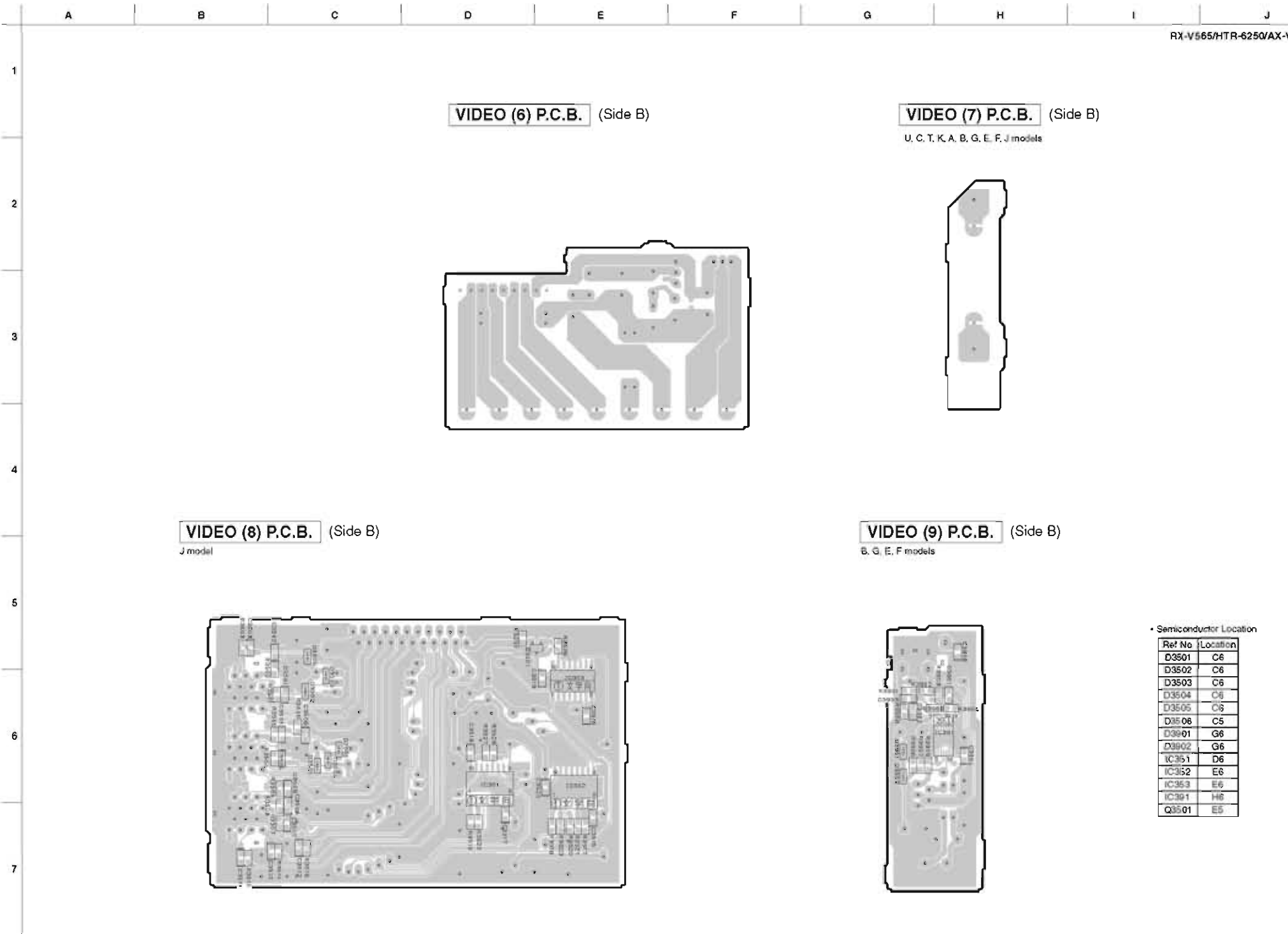
J model



VIDEO (9) P.C.B. (Side A)

B, G, E, F models





VIDEO (6) P.C.B. (Side B)

VIDEO (7) P.C.B. (Side B)

U, C, T, K, A, B, G, E, F, J models

VIDEO (8) P.C.B. (Side B)

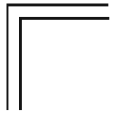
J model

VIDEO (9) P.C.B. (Side B)

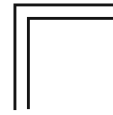
B, G, E, F models

• Semiconductor Location

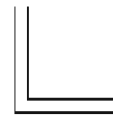
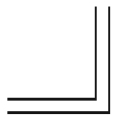
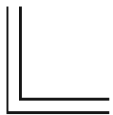
Ref No	Location
D3501	C6
D3502	C6
D3503	C6
D3504	C6
D3505	C6
D3506	C5
D3507	G6
D3508	G6
IC351	D6
IC352	E6
IC353	E6
IC354	H6
Q3501	E5



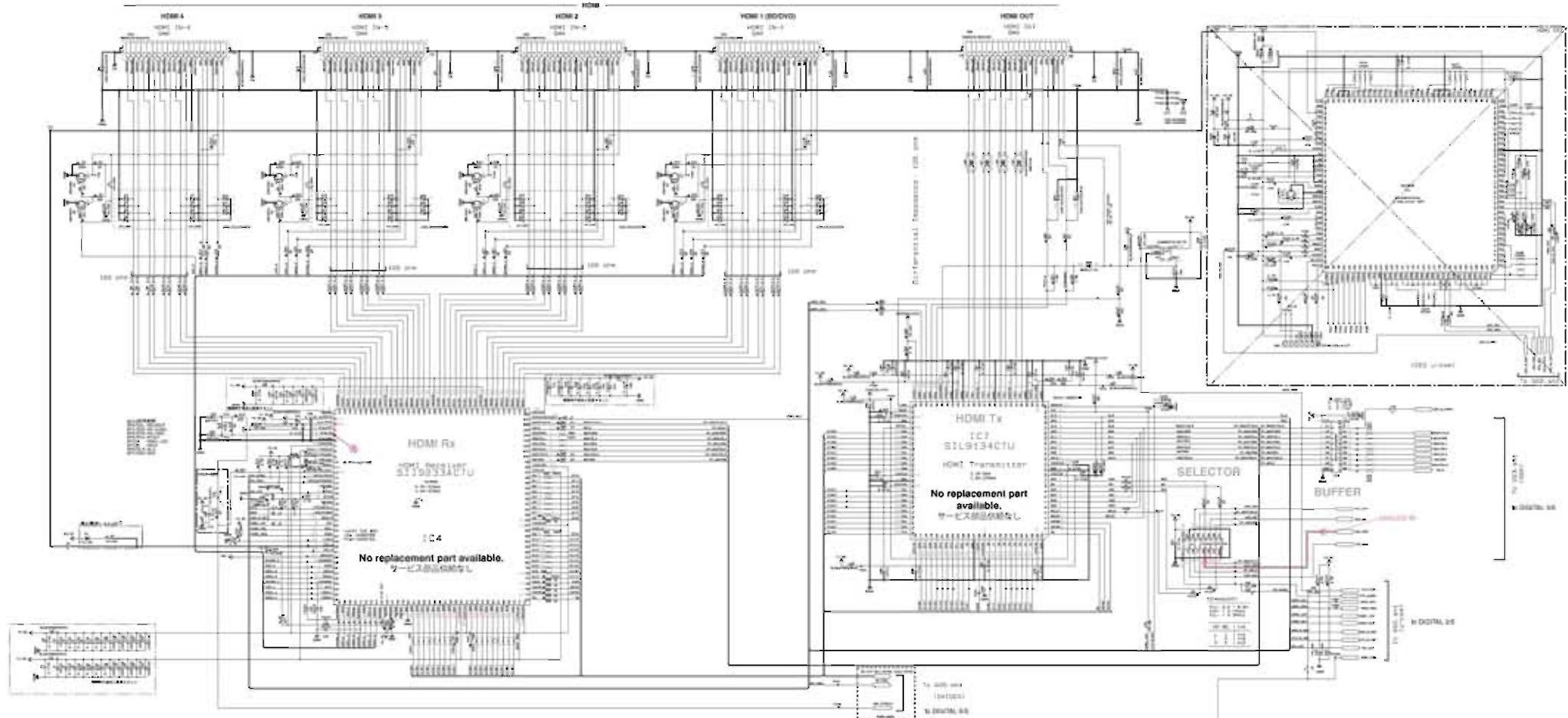
MEMO



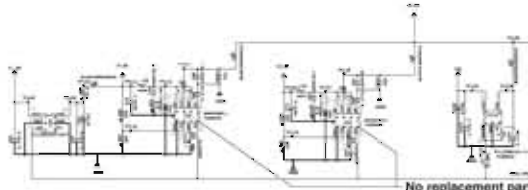
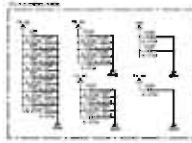
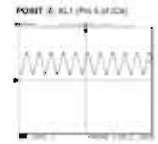
MEMO



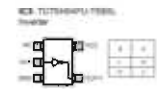
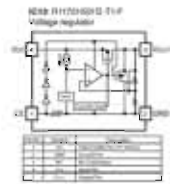
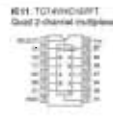
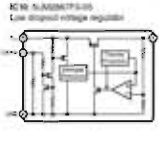
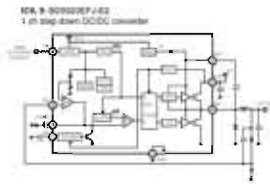
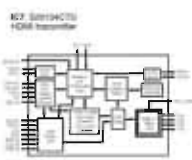
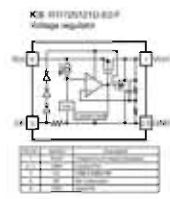
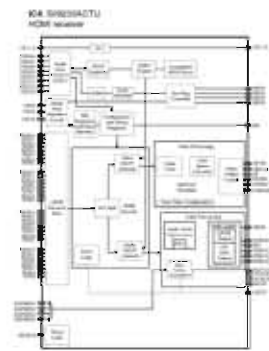
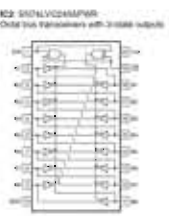
SCHEMATIC DIAGRAMS
DIGITAL 1/5



Part No.	Part Name	Quantity
K2	SH1V22AMPWR	1
K3	TU2840FU	1
K4	SH93ACTU	1
K5	SH1702D25P	1
K6	SH1702D25P	1
K7	SH1702D25P	1
K8	SH1702D25P	1
K9	SH1702D25P	1
K10	SH1702D25P	1
K11	SH1702D25P	1
K12	SH1702D25P	1
K13	SH1702D25P	1
K14	SH1702D25P	1
K15	SH1702D25P	1
K16	SH1702D25P	1
K17	SH1702D25P	1
K18	SH1702D25P	1
K19	SH1702D25P	1
K20	SH1702D25P	1
K21	SH1702D25P	1
K22	SH1702D25P	1
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K93	SH1702D25P	1
K94	SH1702D25P	1
K95	SH1702D25P	1
K96	SH1702D25P	1
K97	SH1702D25P	1
K98	SH1702D25P	1
K99	SH1702D25P	1
K100	SH1702D25P	1



No replacement part available.
代替品なし



- All voltages are measured with a 10MΩ DC electronic voltmeter.
- Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- Schematic diagram is subject to change without notice.
- 修理の際は、必ずしもこの図面に準拠して交換するものではありません。
- 交換する部品は、必ずしもこの図面に記載の部品番号と一致するものではありません。
- 交換する部品は、必ずしもこの図面に記載の部品番号と一致するものではありません。
- 交換する部品は、必ずしもこの図面に記載の部品番号と一致するものではありません。

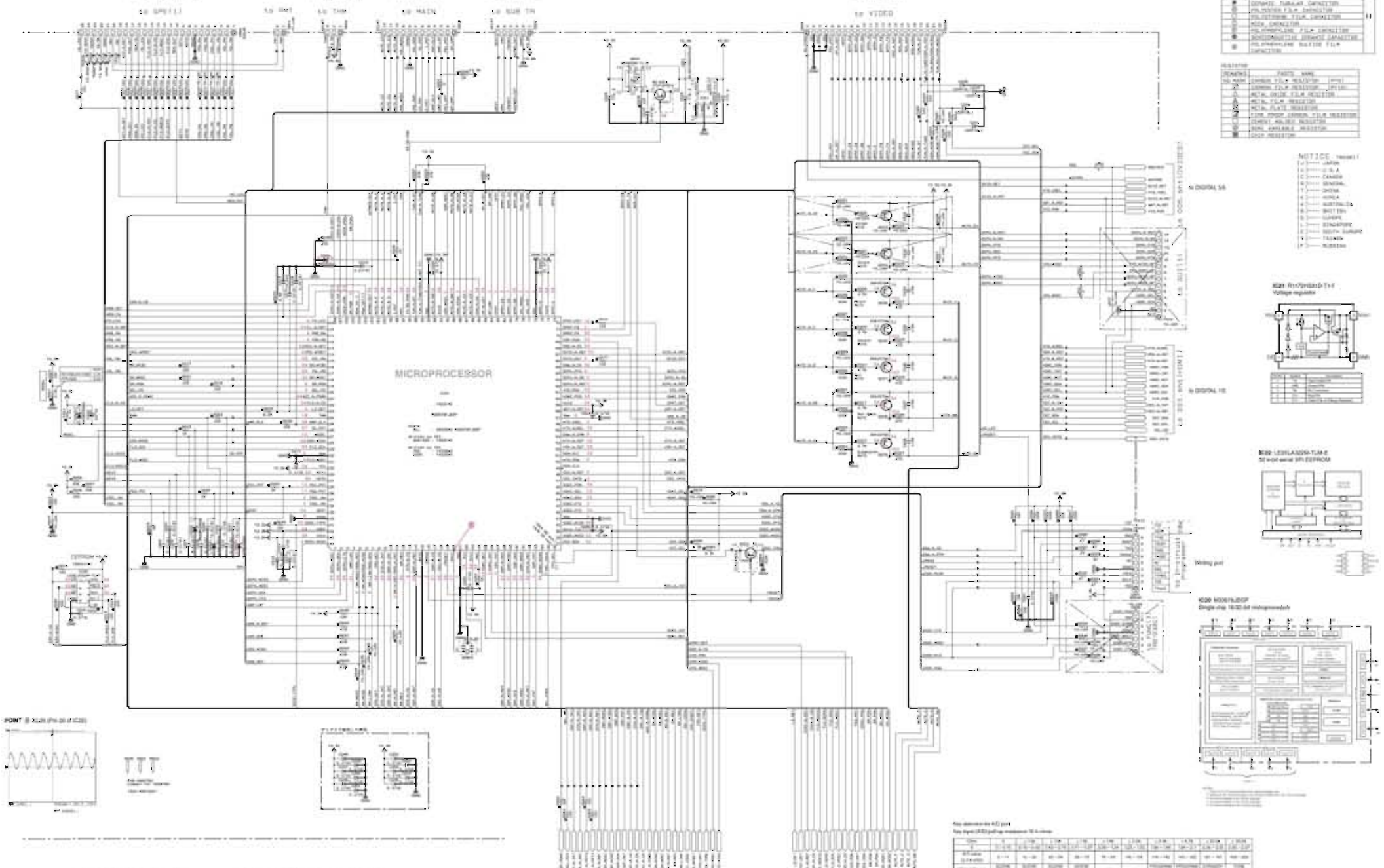
Page 106
OPERATION (1), CONT.

Page 107
V-MAN (L), CONT.

Page 108
V-MAN (L), CONT.

Page 109
VIDEO (L), CONT.

Page 110
VIDEO (L), CONT.



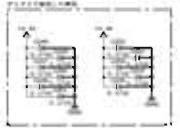
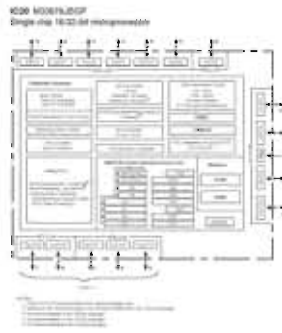
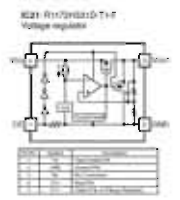
CAPACITOR

ITEM NO.	TYPE	VALUE
C1	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C2	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C3	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C4	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C5	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C6	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C7	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C8	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C9	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C10	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C11	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C12	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C13	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C14	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C15	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C16	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C17	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C18	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C19	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C20	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C21	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C22	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C23	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C24	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C25	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C26	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C27	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C28	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C29	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C30	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C31	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C32	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C33	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C34	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C35	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C36	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C37	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C38	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C39	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C40	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C41	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C42	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C43	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C44	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C45	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C46	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C47	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C48	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C49	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C50	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C51	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C52	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C53	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C54	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C55	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C56	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C57	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C58	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
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C62	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C63	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C64	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
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C96	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C97	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C98	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C99	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V
C100	ALUMINUM ELECTROLYTIC CAPACITOR	100μF/50V

RESISTOR

ITEM NO.	TYPE	VALUE
R1	GENERAL PURPOSE RESISTOR	10K
R2	GENERAL PURPOSE RESISTOR	10K
R3	GENERAL PURPOSE RESISTOR	10K
R4	GENERAL PURPOSE RESISTOR	10K
R5	GENERAL PURPOSE RESISTOR	10K
R6	GENERAL PURPOSE RESISTOR	10K
R7	GENERAL PURPOSE RESISTOR	10K
R8	GENERAL PURPOSE RESISTOR	10K
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R97	GENERAL PURPOSE RESISTOR	10K
R98	GENERAL PURPOSE RESISTOR	10K
R99	GENERAL PURPOSE RESISTOR	10K
R100	GENERAL PURPOSE RESISTOR	10K

- NOTICE
- 1. S.A.
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 - 99. C.A.
 - 100. C.A.



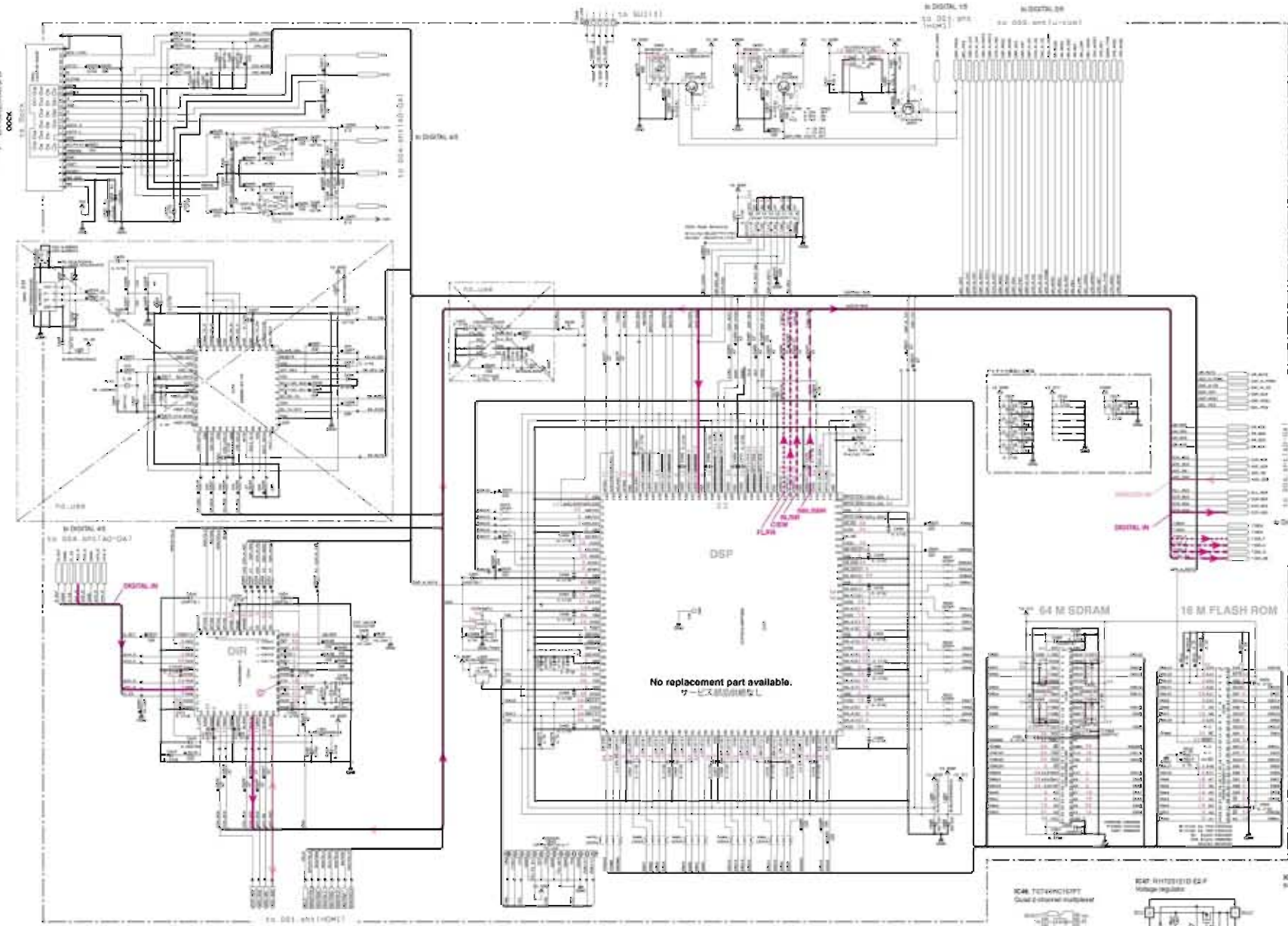
All voltages are measured with a 10MΩ DC electronic voltmeter.
Components having special characteristics are marked with a star and must be replaced with parts having specifications equal to those originally installed.
Schematic diagram is subject to change without notice.

● 電圧は、10MΩ DC 電子電圧計で測定する。
● 特殊な特性を有する部品は星印を付し、元の仕様と同等の部品で交換する。
● 回路図は、変更なしと保証しない。

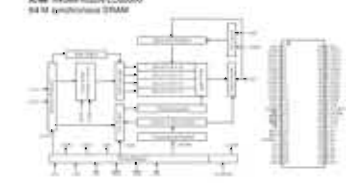
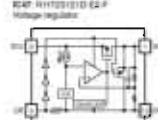
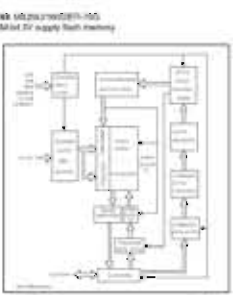
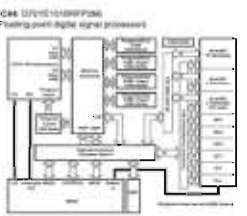
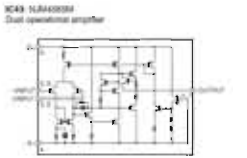
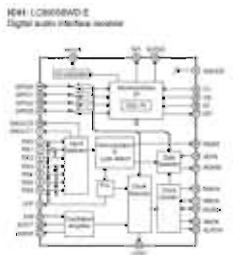
Part numbers and their locations

Part No.	Location
821	IC101
822	IC102
823	IC103
824	IC104
825	IC105
826	IC106
827	IC107
828	IC108
829	IC109
830	IC110
831	IC111
832	IC112
833	IC113
834	IC114
835	IC115
836	IC116
837	IC117
838	IC118
839	IC119
840	IC120
841	IC121
842	IC122
843	IC123
844	IC124
845	IC125
846	IC126
847	IC127
848	IC128
849	IC129
850	IC130
851	IC131
852	IC132
853	IC133
854	IC134
855	IC135
856	IC136
857	IC137
858	IC138
859	IC139
860	IC140
861	IC141
862	IC142
863	IC143
864	IC144
865	IC145
866	IC146
867	IC147
868	IC148
869	IC149
870	IC150
871	IC151
872	IC152
873	IC153
874	IC154
875	IC155
876	IC156
877	IC157
878	IC158
879	IC159
880	IC160
881	IC161
882	IC162
883	IC163
884	IC164
885	IC165
886	IC166
887	IC167
888	IC168
889	IC169
890	IC170
891	IC171
892	IC172
893	IC173
894	IC174
895	IC175
896	IC176
897	IC177
898	IC178
899	IC179
900	IC180

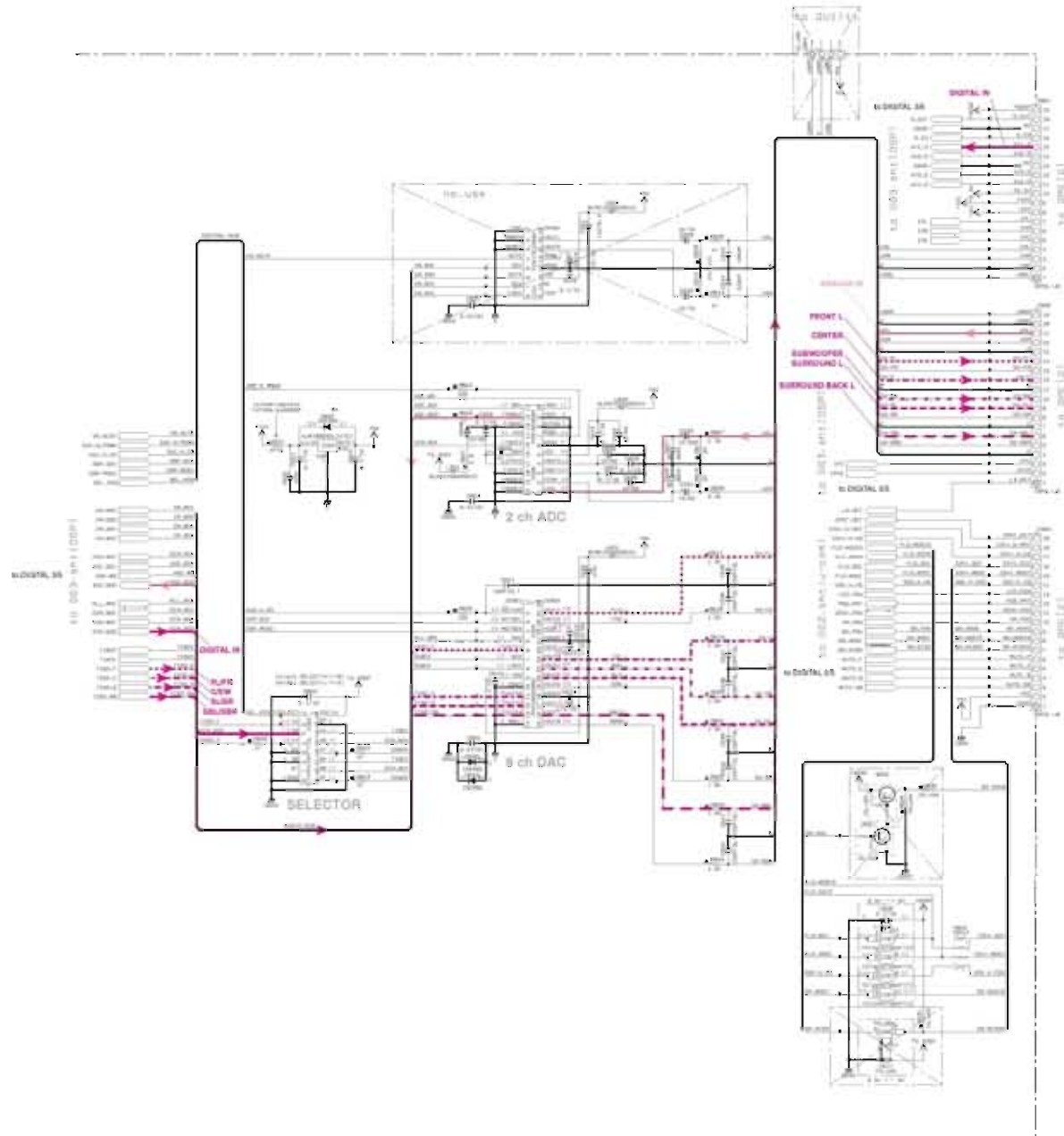
No replacement part available.
サークルマーク付



No replacement part available.
サークルマーク付



IC	Part Number	Description
IC101	16A100000000	64 M synchronous DRAM
IC102	16A100000000	64 M synchronous DRAM
IC103	16A100000000	64 M synchronous DRAM
IC104	16A100000000	64 M synchronous DRAM
IC105	16A100000000	64 M synchronous DRAM
IC106	16A100000000	64 M synchronous DRAM
IC107	16A100000000	64 M synchronous DRAM
IC108	16A100000000	64 M synchronous DRAM
IC109	16A100000000	64 M synchronous DRAM
IC110	16A100000000	64 M synchronous DRAM
IC111	16A100000000	64 M synchronous DRAM
IC112	16A100000000	64 M synchronous DRAM
IC113	16A100000000	64 M synchronous DRAM
IC114	16A100000000	64 M synchronous DRAM
IC115	16A100000000	64 M synchronous DRAM
IC116	16A100000000	64 M synchronous DRAM
IC117	16A100000000	64 M synchronous DRAM
IC118	16A100000000	64 M synchronous DRAM
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IC120	16A100000000	64 M synchronous DRAM
IC121	16A100000000	64 M synchronous DRAM
IC122	16A100000000	64 M synchronous DRAM
IC123	16A100000000	64 M synchronous DRAM
IC124	16A100000000	64 M synchronous DRAM
IC125	16A100000000	64 M synchronous DRAM
IC126	16A100000000	64 M synchronous DRAM
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IC129	16A100000000	64 M synchronous DRAM
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IC131	16A100000000	64 M synchronous DRAM
IC132	16A100000000	64 M synchronous DRAM
IC133	16A100000000	64 M synchronous DRAM
IC134	16A100000000	64 M synchronous DRAM
IC135	16A100000000	64 M synchronous DRAM
IC136	16A100000000	64 M synchronous DRAM
IC137	16A100000000	64 M synchronous DRAM
IC138	16A100000000	64 M synchronous DRAM
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IC142	16A100000000	64 M synchronous DRAM
IC143	16A100000000	64 M synchronous DRAM
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IC146	16A100000000	64 M synchronous DRAM
IC147	16A100000000	64 M synchronous DRAM
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IC149	16A100000000	64 M synchronous DRAM
IC150	16A100000000	64 M synchronous DRAM
IC151	16A100000000	64 M synchronous DRAM
IC152	16A100000000	64 M synchronous DRAM
IC153	16A100000000	64 M synchronous DRAM
IC154	16A100000000	64 M synchronous DRAM
IC155	16A100000000	64 M synchronous DRAM
IC156	16A100000000	64 M synchronous DRAM
IC157	16A100000000	64 M synchronous DRAM
IC158	16A100000000	64 M synchronous DRAM
IC159	16A100000000	64 M synchronous DRAM
IC160	16A100000000	64 M synchronous DRAM
IC161	16A100000000	64 M synchronous DRAM
IC162	16A100000000	64 M synchronous DRAM



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41 - 10-003, 015.1 (0001)
 42 - 04-003, 011.1 (0001)
 43 - 00-004, 012.1 (AD-04)
 44 - 00-008, 011.1 (D1000)

NO.	REF.	DESCRIPTION	TEST
41	10-003	015.1 (0001)	
42	04-003	011.1 (0001)	
43	00-004	012.1 (AD-04)	
44	00-008	011.1 (D1000)	

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to OPERATION (2) 0248

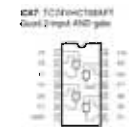
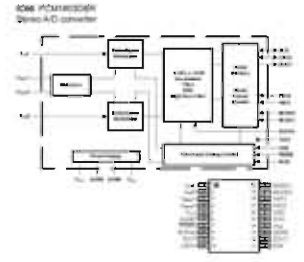
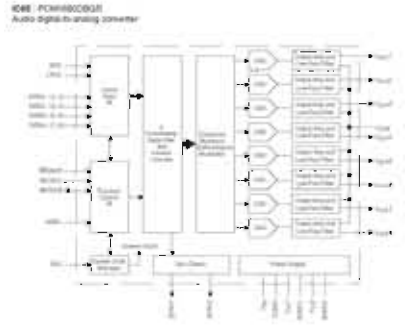
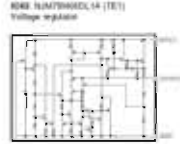
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to OPERATION (2) 0248

NO.	REF.	DESCRIPTION	TEST
45	00-003	011.1 (0001)	
46	00-004	011.1 (0001)	
47	00-005	011.1 (0001)	
48	00-006	011.1 (0001)	
49	00-007	011.1 (0001)	
50	00-008	011.1 (0001)	

NO.	REF.	DESCRIPTION	TEST
51	00-009	011.1 (0001)	
52	00-010	011.1 (0001)	
53	00-011	011.1 (0001)	
54	00-012	011.1 (0001)	
55	00-013	011.1 (0001)	

NOTICE (Note):

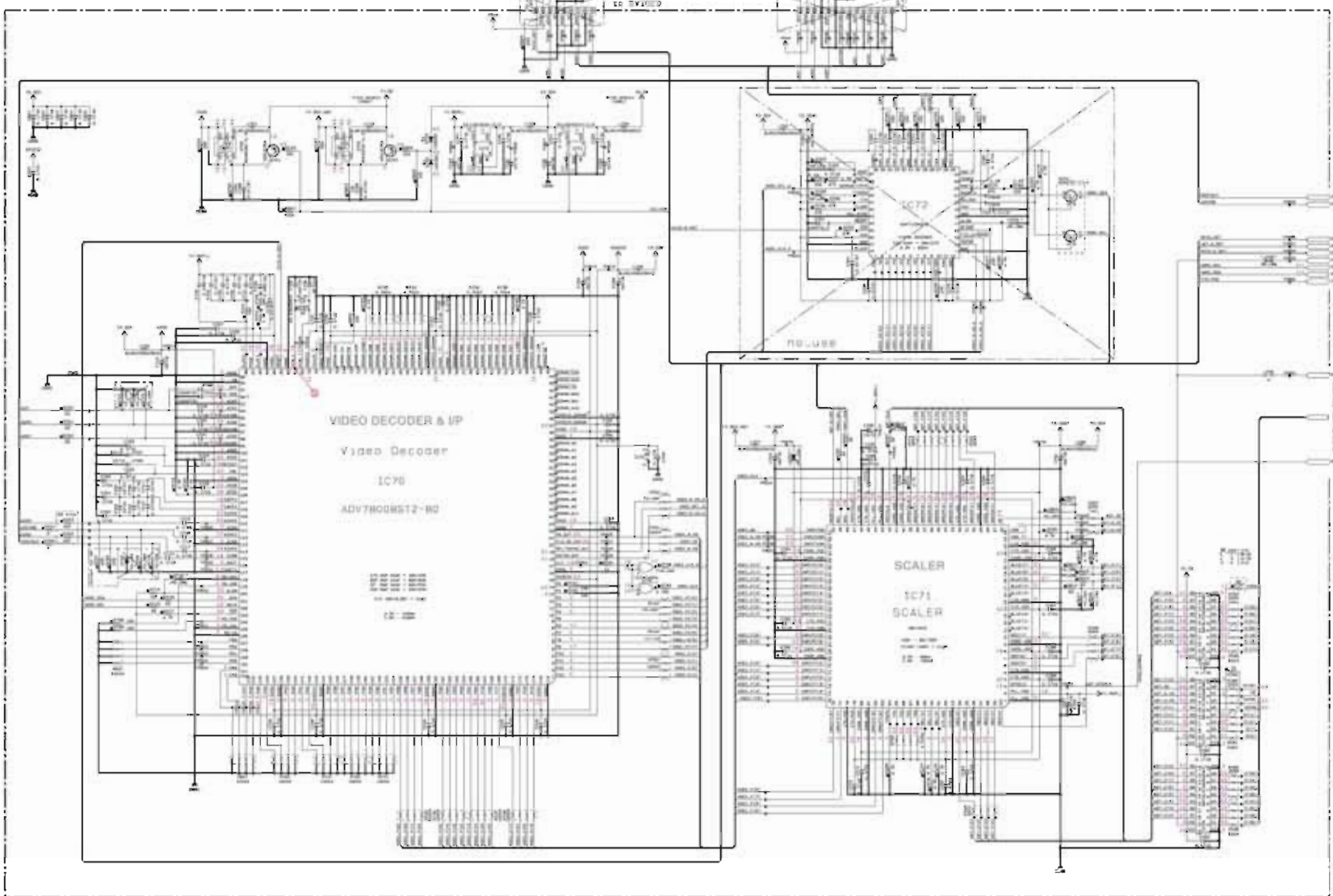
- 1. 10-003
- 2. 04-003
- 3. 00-004
- 4. 00-005
- 5. 00-006
- 6. 00-007
- 7. 00-008
- 8. 00-009
- 9. 00-010
- 10. 00-011
- 11. 00-012
- 12. 00-013



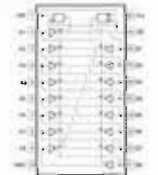
- All voltages are measured with a 100KV DC voltmeter unless otherwise specified.
- Components having special characteristics are marked with a triangle and must be replaced with parts having specifications equal to those originally specified.
- Dimensions and appearance is subject to change without notice.
- 本図は、図面記載の仕様に基づいて作成されています。
- 部品には、特殊な特性を示す記号がつけられており、必ず同等の仕様品で交換してください。
- 寸法や外観は、予告なく変更される場合があります。

Page 124
to VIDEO IN (COM1)
(R, G, B, F, Video)

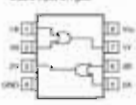
Page 125
to VIDEO IN (COM2)



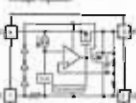
IC76: ADV7808M1P
3.3 V ADT video bus transceiver with 3-state output



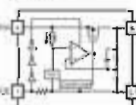
IC75: TC7V09K (MAX. F)
Quad 2-input OR gate



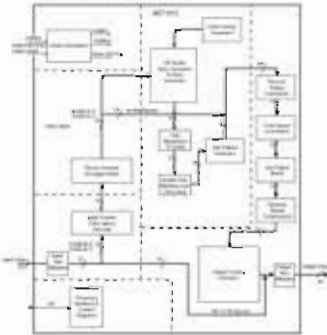
IC78: AD7809D (1.2V)
Voltage regulator



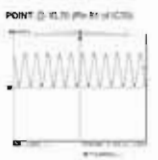
IC79: AD7809D (1.2V)
Voltage regulator



IC76: ADV7808M1P
Advanced video processor device



DIVIDED
DIGITAL (5)



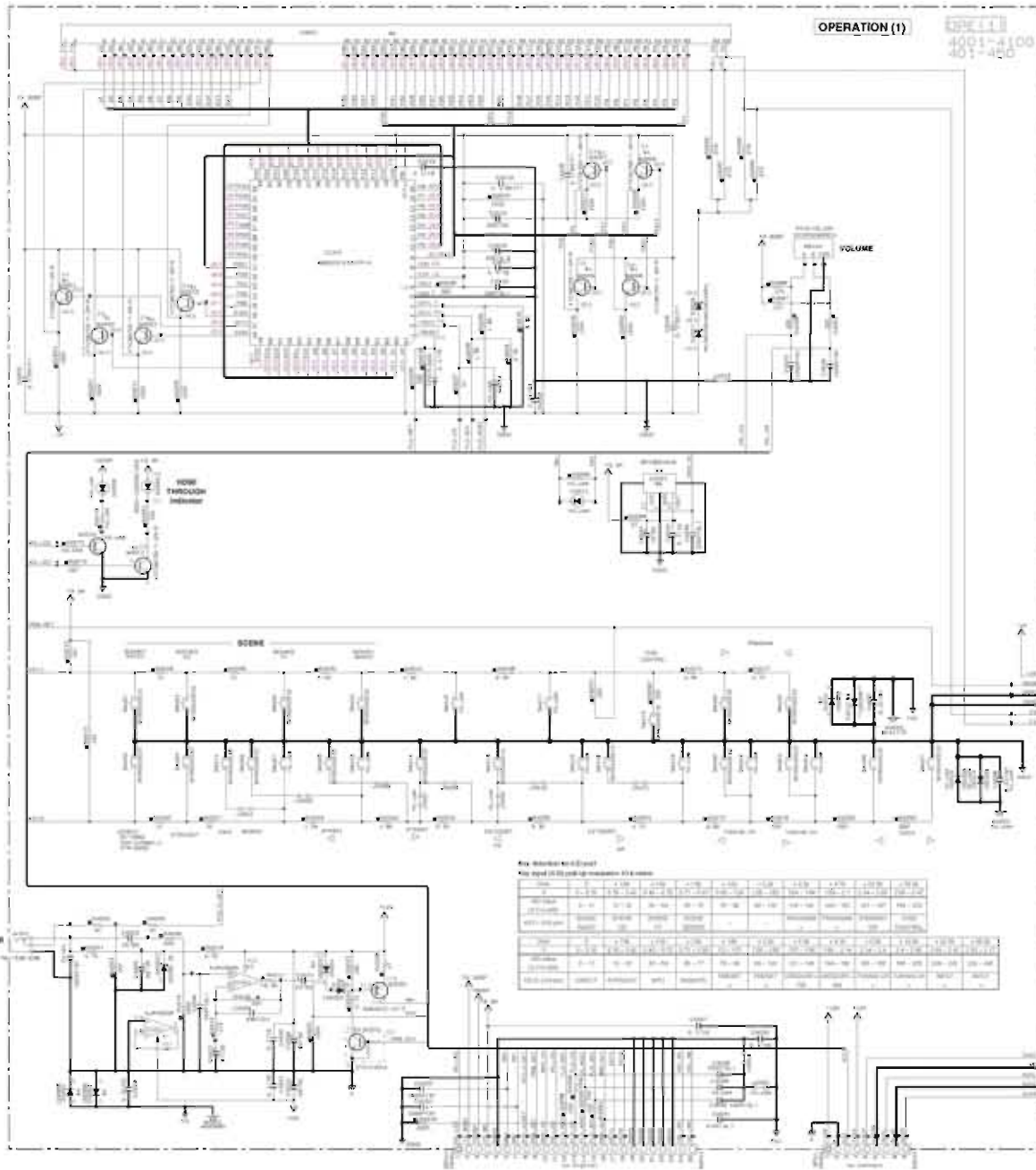
COMPONENT	VALUE	NAME
IC1	100K	PULL-UP RESISTOR
IC2	100K	PULL-UP RESISTOR
IC3	100K	PULL-UP RESISTOR
IC4	100K	PULL-UP RESISTOR
IC5	100K	PULL-UP RESISTOR
IC6	100K	PULL-UP RESISTOR
IC7	100K	PULL-UP RESISTOR
IC8	100K	PULL-UP RESISTOR
IC9	100K	PULL-UP RESISTOR
IC10	100K	PULL-UP RESISTOR
IC11	100K	PULL-UP RESISTOR
IC12	100K	PULL-UP RESISTOR
IC13	100K	PULL-UP RESISTOR
IC14	100K	PULL-UP RESISTOR
IC15	100K	PULL-UP RESISTOR
IC16	100K	PULL-UP RESISTOR
IC17	100K	PULL-UP RESISTOR
IC18	100K	PULL-UP RESISTOR
IC19	100K	PULL-UP RESISTOR
IC20	100K	PULL-UP RESISTOR
IC21	100K	PULL-UP RESISTOR
IC22	100K	PULL-UP RESISTOR
IC23	100K	PULL-UP RESISTOR
IC24	100K	PULL-UP RESISTOR
IC25	100K	PULL-UP RESISTOR
IC26	100K	PULL-UP RESISTOR
IC27	100K	PULL-UP RESISTOR
IC28	100K	PULL-UP RESISTOR
IC29	100K	PULL-UP RESISTOR
IC30	100K	PULL-UP RESISTOR
IC31	100K	PULL-UP RESISTOR
IC32	100K	PULL-UP RESISTOR
IC33	100K	PULL-UP RESISTOR
IC34	100K	PULL-UP RESISTOR
IC35	100K	PULL-UP RESISTOR
IC36	100K	PULL-UP RESISTOR
IC37	100K	PULL-UP RESISTOR
IC38	100K	PULL-UP RESISTOR
IC39	100K	PULL-UP RESISTOR
IC40	100K	PULL-UP RESISTOR
IC41	100K	PULL-UP RESISTOR
IC42	100K	PULL-UP RESISTOR
IC43	100K	PULL-UP RESISTOR
IC44	100K	PULL-UP RESISTOR
IC45	100K	PULL-UP RESISTOR
IC46	100K	PULL-UP RESISTOR
IC47	100K	PULL-UP RESISTOR
IC48	100K	PULL-UP RESISTOR
IC49	100K	PULL-UP RESISTOR
IC50	100K	PULL-UP RESISTOR
IC51	100K	PULL-UP RESISTOR
IC52	100K	PULL-UP RESISTOR
IC53	100K	PULL-UP RESISTOR
IC54	100K	PULL-UP RESISTOR
IC55	100K	PULL-UP RESISTOR
IC56	100K	PULL-UP RESISTOR
IC57	100K	PULL-UP RESISTOR
IC58	100K	PULL-UP RESISTOR
IC59	100K	PULL-UP RESISTOR
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IC64	100K	PULL-UP RESISTOR
IC65	100K	PULL-UP RESISTOR
IC66	100K	PULL-UP RESISTOR
IC67	100K	PULL-UP RESISTOR
IC68	100K	PULL-UP RESISTOR
IC69	100K	PULL-UP RESISTOR
IC70	100K	PULL-UP RESISTOR
IC71	100K	PULL-UP RESISTOR
IC72	100K	PULL-UP RESISTOR
IC73	100K	PULL-UP RESISTOR
IC74	100K	PULL-UP RESISTOR
IC75	100K	PULL-UP RESISTOR
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IC77	100K	PULL-UP RESISTOR
IC78	100K	PULL-UP RESISTOR
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IC81	100K	PULL-UP RESISTOR
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IC89	100K	PULL-UP RESISTOR
IC90	100K	PULL-UP RESISTOR
IC91	100K	PULL-UP RESISTOR
IC92	100K	PULL-UP RESISTOR
IC93	100K	PULL-UP RESISTOR
IC94	100K	PULL-UP RESISTOR
IC95	100K	PULL-UP RESISTOR
IC96	100K	PULL-UP RESISTOR
IC97	100K	PULL-UP RESISTOR
IC98	100K	PULL-UP RESISTOR
IC99	100K	PULL-UP RESISTOR
IC100	100K	PULL-UP RESISTOR

- NOTICE
1. U.S. &
 2. CANADA
 3. MEXICO
 4. SOUTH AMERICA
 5. EUROPE
 6. ASIA
 7. AUSTRALIA
 8. NEW ZEALAND
 9. AFRICA
 10. ISRAEL
 11. INDIA
 12. JAPAN
 13. CHINA
 14. HONG KONG
 15. TAIWAN
 16. SOUTH KOREA
 17. SINGAPORE
 18. MALAYSIA
 19. THAILAND
 20. PHILIPPINES
 21. INDONESIA
 22. VIETNAM
 23. BRAZIL
 24. ARGENTINA
 25. CHILE
 26. COLOMBIA
 27. CUBA
 28. DOMINICAN REPUBLIC
 29. GUATEMALA
 30. HONDURAS
 31. NICARAGUA
 32. PANAMA
 33. PARAGUAY
 34. PERU
 35. PUERTO RICO
 36. VENEZUELA



All voltages are measured with a 1000V DC electronic voltmeter.
Components having special characteristics are marked A, and must be replaced with parts having specifications equal to those originally specified.
Schematic diagram is subject to change without notice.

この図は、本製品の仕様を正確に示すものではありません。
本製品の仕様は、本製品の仕様書に記載されています。
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OPERATION (1)

4401-4500
401-450

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NOTICE: (continued)

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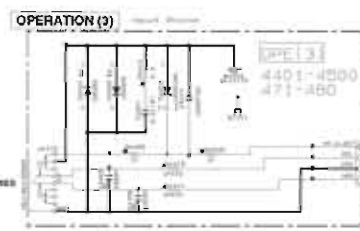
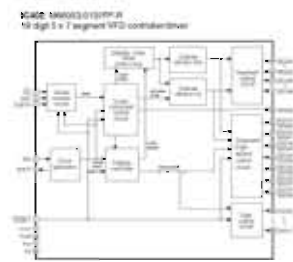
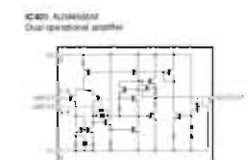
6. ...

7. ...

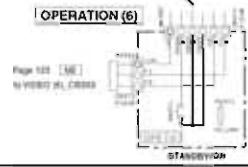
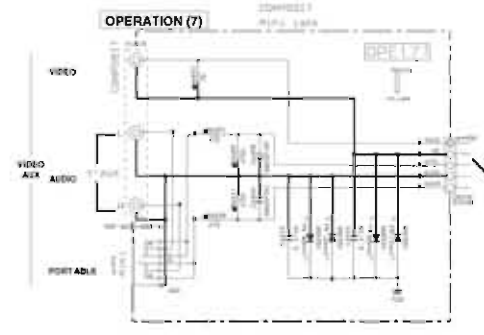
8. ...

9. ...

10. ...



Page 102 [SE]
W-V560 (A), W560



Pin Number and Input

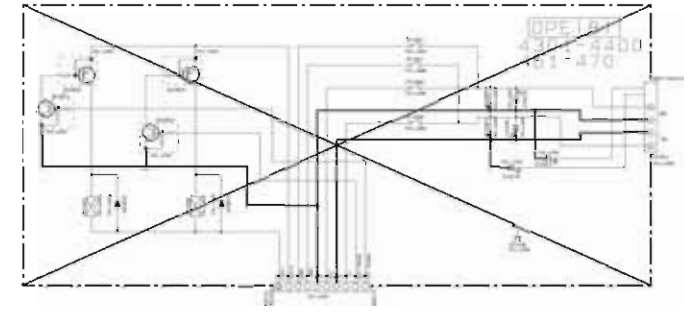
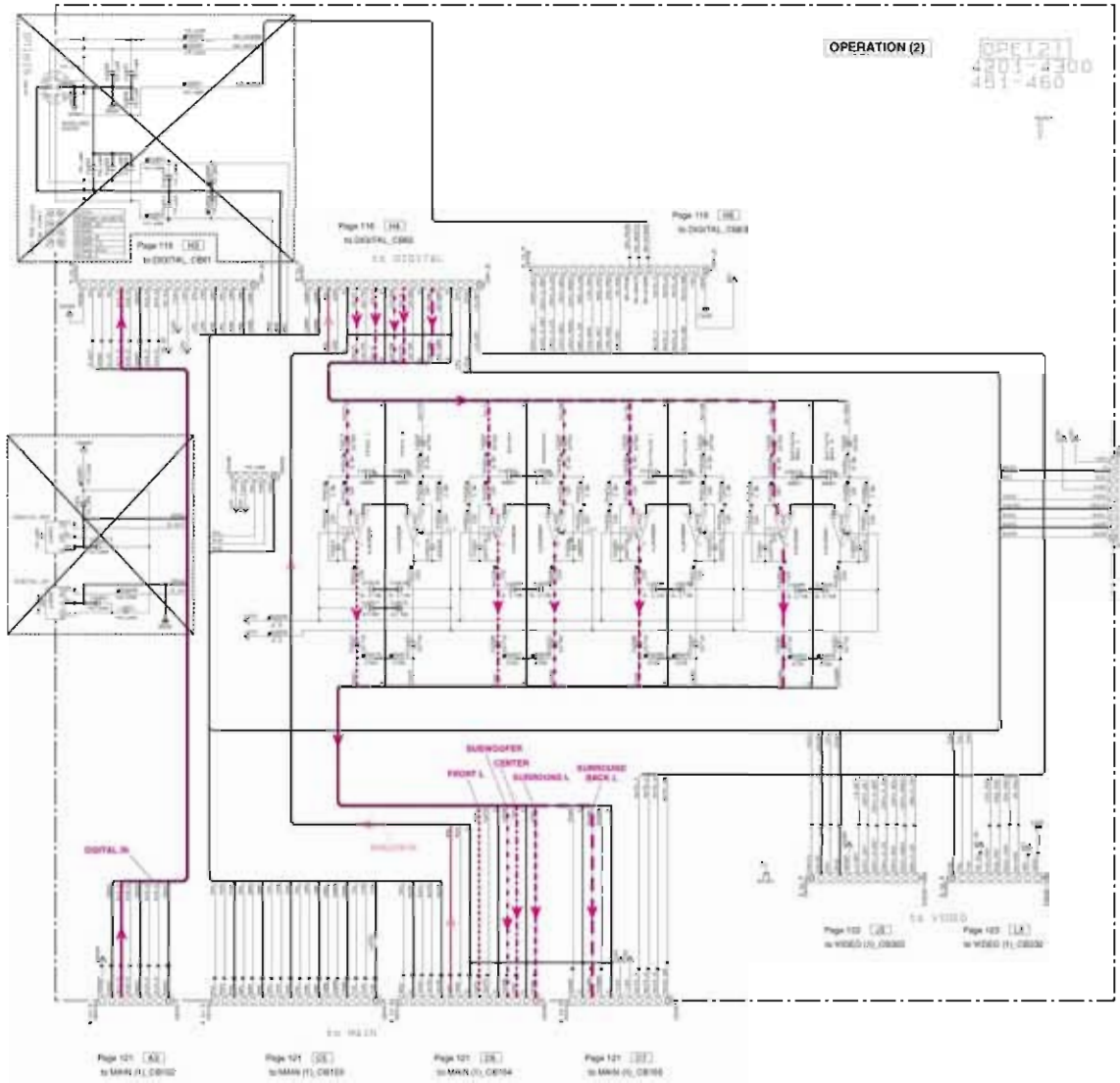
Pin Input (1) to (16) and Output (1) to (16)

Pin	Input	Output
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16

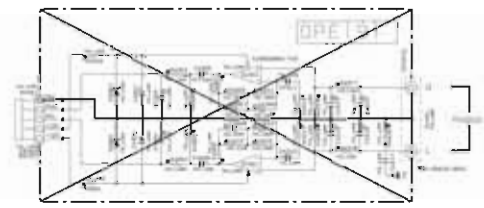
Page 104 [SE]
W-DIGITAL (B)

Page 105 [SE]
W-OPERATION (9), CM90

- All voltages are measured with a 100KV DC isolation voltage
- Components having special characteristics are marked with a triangle and must be replaced with parts having specifications equal to those originally specified
- Electronic diagrams are subject to change without notice
- REPAIR PARTS MANUFACTURED FROM 1-1-1997
- REPAIR PARTS MANUFACTURED FROM 1-1-1997
- REPAIR PARTS MANUFACTURED FROM 1-1-1997



Page 116 [HE] to OPERATION (1) C800



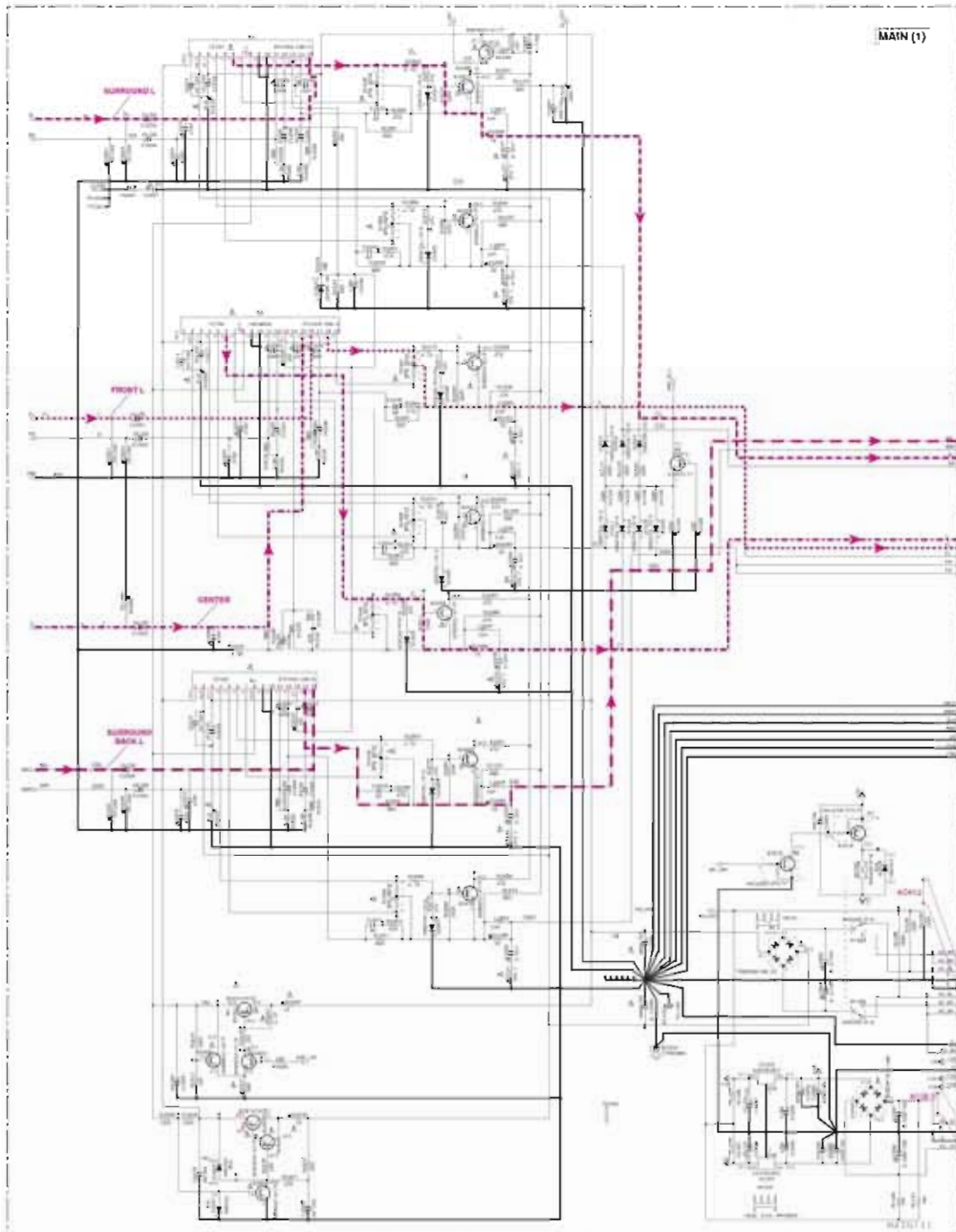
Page 121 [HE] to MAIN (1) C812
Page 121 [HE] to MAIN (1) C813
Page 121 [HE] to MAIN (1) C814
Page 121 [HE] to MAIN (1) C815

IC401-404 ALN40101P Dual operation amplifier



REF ID	DESCRIPTION	VALUE	UNIT
R101	RESISTOR	10K	Ω
R102	RESISTOR	10K	Ω
R103	RESISTOR	10K	Ω
R104	RESISTOR	10K	Ω
R105	RESISTOR	10K	Ω
R106	RESISTOR	10K	Ω
R107	RESISTOR	10K	Ω
R108	RESISTOR	10K	Ω
R109	RESISTOR	10K	Ω
R110	RESISTOR	10K	Ω
R111	RESISTOR	10K	Ω
R112	RESISTOR	10K	Ω
R113	RESISTOR	10K	Ω
R114	RESISTOR	10K	Ω
R115	RESISTOR	10K	Ω
R116	RESISTOR	10K	Ω
R117	RESISTOR	10K	Ω
R118	RESISTOR	10K	Ω
R119	RESISTOR	10K	Ω
R120	RESISTOR	10K	Ω
R121	RESISTOR	10K	Ω
R122	RESISTOR	10K	Ω
R123	RESISTOR	10K	Ω
R124	RESISTOR	10K	Ω
R125	RESISTOR	10K	Ω
R126	RESISTOR	10K	Ω
R127	RESISTOR	10K	Ω
R128	RESISTOR	10K	Ω
R129	RESISTOR	10K	Ω
R130	RESISTOR	10K	Ω
R131	RESISTOR	10K	Ω
R132	RESISTOR	10K	Ω
R133	RESISTOR	10K	Ω
R134	RESISTOR	10K	Ω
R135	RESISTOR	10K	Ω
R136	RESISTOR	10K	Ω
R137	RESISTOR	10K	Ω
R138	RESISTOR	10K	Ω
R139	RESISTOR	10K	Ω
R140	RESISTOR	10K	Ω
R141	RESISTOR	10K	Ω
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R196	RESISTOR	10K	Ω
R197	RESISTOR	10K	Ω
R198	RESISTOR	10K	Ω
R199	RESISTOR	10K	Ω
R200	RESISTOR	10K	Ω

• All voltages are measured with a 100KV DC voltmeter unless noted.
 • Components having special characteristics are marked with a star and must be replaced with parts having specifications equal to those originally specified.
 • Schematic diagrams are subject to change without notice.

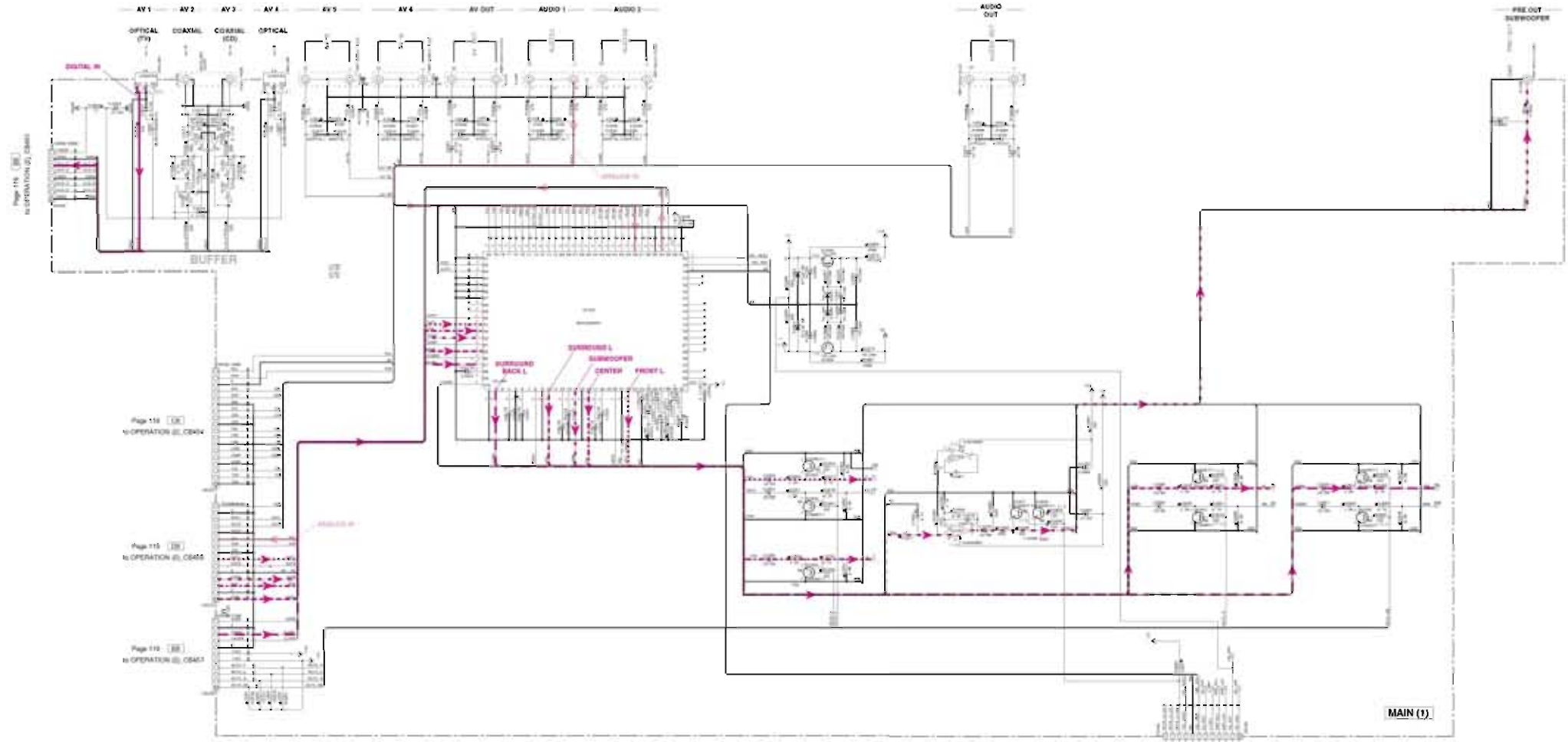


RESISTOR VALUE LIST

RESISTOR VALUE LIST
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435. 1M
436. 10M
437. 100M
438. 1K
439. 10K
440. 100K
441. 1M
442. 10M
443. 100M
444. 1K
445. 10K
446. 100K
447. 1M
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455. 100M
456. 1K
457. 10K
458. 100K
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460. 10M
461. 100M
462. 1K
463. 10K
464. 100K
465. 1M
466. 10M
467. 100M
468. 1K
469. 10K
470. 100K
471. 1M
472. 10M
473. 100M
474. 1K
475. 10K
476. 100K
477. 1M
478. 10M
479. 100M
480. 1K
481. 10K
482. 100K
483. 1M
484. 10M
485. 100M
486. 1K
487. 10K
488. 100K
489. 1M
490. 10M
491. 100M
492. 1K
493. 10K
494. 100K
495. 1M
496. 10M
497. 100M
498. 1K
499. 10K
500. 100K

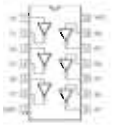
RESISTOR VALUE LIST

RESISTOR VALUE LIST
1. 10K
2. 100K
3. 1M
4. 10M
5. 100M
6. 1K
7. 10K
8. 100K
9. 1M
10. 10M
11. 100M
12. 1K
13. 10K
14. 100K
15. 1M
16. 10M
17. 100M
18. 1K
19. 10K
20. 100K
21. 1M
22. 10M
23. 100M
24. 1K
25. 10K
26. 100K
27. 1M
28. 10M
29. 100M
30. 1K
31. 10K
32. 100K
33. 1M
34. 10M
35. 100M
36. 1K
37. 10K
38. 100K
39. 1M
40. 10M
41. 100M
42. 1K
43. 10K
44. 100K
45. 1M
46. 10M
47. 100M
48. 1K
49. 10K
50. 100K
51. 1M
52. 10M
53. 100M
54. 1K
55. 10K
56. 100K
57. 1M
58. 10M
59. 100M
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61. 10K
62. 100K
63. 1M
64. 10M
65. 100M
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70. 10M
71. 100M
72. 1K
73. 10K
74. 100K
75. 1M
76. 10M
77. 100M
78. 1K
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82. 10M
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103. 10K
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162. 1K
163. 10K
164. 100K
165. 1M
166. 10M
167. 100M
168. 1K
169. 10K
170. 100K
171. 1M
172. 10M
173. 100M
174. 1K
175. 10K
176. 100K
177. 1M
178. 10M
179. 100M



MAIN (1)

IC155 TCM7540MPT
Hex inverter



IC156 R24R2020PP
9 channel electronic volume with 11 input selector and 34th output



IC158 SLM8000
Dual operational amplifier



IC159 SLM8000
Dual operational amplifier



RESISTORS

R1	10k
R2	10k
R3	10k
R4	10k
R5	10k
R6	10k
R7	10k
R8	10k
R9	10k
R10	10k
R11	10k
R12	10k
R13	10k
R14	10k
R15	10k
R16	10k
R17	10k
R18	10k
R19	10k
R20	10k
R21	10k
R22	10k
R23	10k
R24	10k
R25	10k
R26	10k
R27	10k
R28	10k
R29	10k
R30	10k
R31	10k
R32	10k
R33	10k
R34	10k
R35	10k
R36	10k
R37	10k
R38	10k
R39	10k
R40	10k
R41	10k
R42	10k
R43	10k
R44	10k
R45	10k
R46	10k
R47	10k
R48	10k
R49	10k
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R53	10k
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R66	10k
R67	10k
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R69	10k
R70	10k
R71	10k
R72	10k
R73	10k
R74	10k
R75	10k
R76	10k
R77	10k
R78	10k
R79	10k
R80	10k
R81	10k
R82	10k
R83	10k
R84	10k
R85	10k
R86	10k
R87	10k
R88	10k
R89	10k
R90	10k
R91	10k
R92	10k
R93	10k
R94	10k
R95	10k
R96	10k
R97	10k
R98	10k
R99	10k
R100	10k

CAPACITORS

C1	100nF
C2	100nF
C3	100nF
C4	100nF
C5	100nF
C6	100nF
C7	100nF
C8	100nF
C9	100nF
C10	100nF
C11	100nF
C12	100nF
C13	100nF
C14	100nF
C15	100nF
C16	100nF
C17	100nF
C18	100nF
C19	100nF
C20	100nF
C21	100nF
C22	100nF
C23	100nF
C24	100nF
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C26	100nF
C27	100nF
C28	100nF
C29	100nF
C30	100nF
C31	100nF
C32	100nF
C33	100nF
C34	100nF
C35	100nF
C36	100nF
C37	100nF
C38	100nF
C39	100nF
C40	100nF
C41	100nF
C42	100nF
C43	100nF
C44	100nF
C45	100nF
C46	100nF
C47	100nF
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C74	100nF
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C77	100nF
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C82	100nF
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C85	100nF
C86	100nF
C87	100nF
C88	100nF
C89	100nF
C90	100nF
C91	100nF
C92	100nF
C93	100nF
C94	100nF
C95	100nF
C96	100nF
C97	100nF
C98	100nF
C99	100nF
C100	100nF

Page 114 (32)
to DIGITAL, CAS

• All voltages are measured with a 100kV DC voltmeter unless otherwise specified.
 • Components having special characteristics are marked with a star and must be replaced with parts having specifications equal to those originally specified.
 • Diagrams are subject to change without notice.

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COMPONENT VIDEO

AV1 AV1

AV2 AV2

AV3 AV3

AV4 AV4

VIDEO AV5

AV6 AV6

AV OUT AV OUT

COMPONENT VIDEO

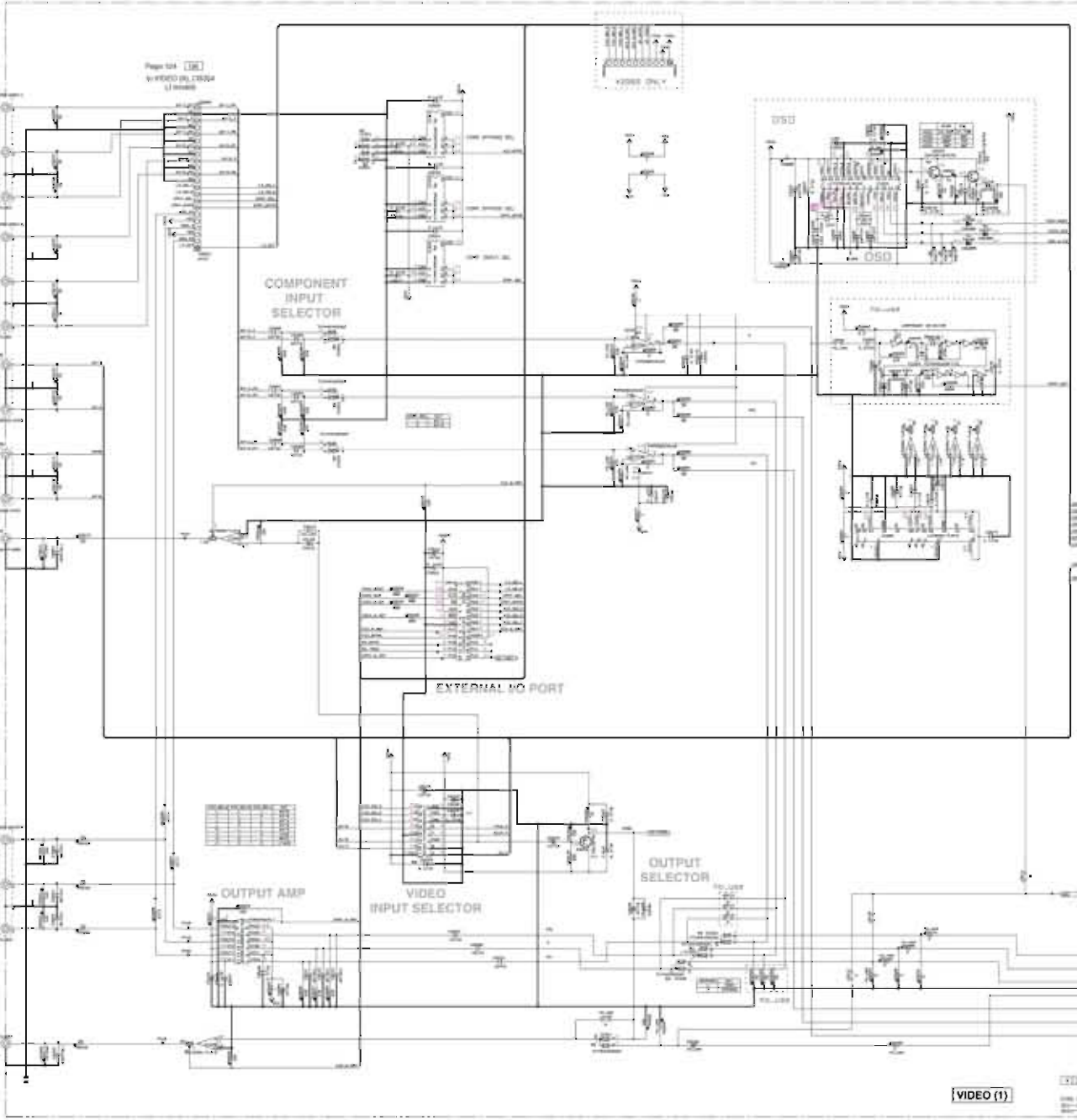
AV1 AV1

AV2 AV2

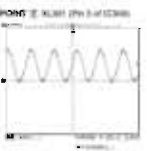
VIDEO AV5

AV6 AV6

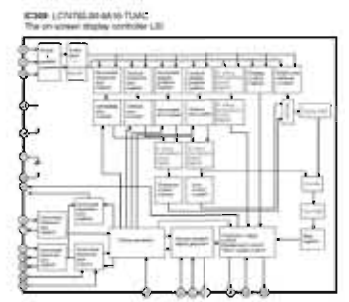
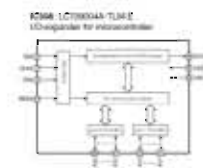
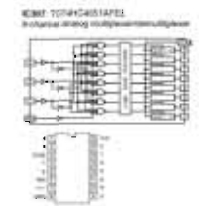
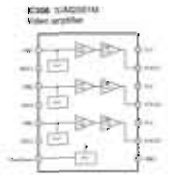
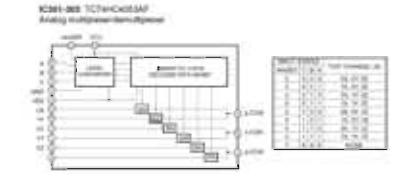
AV OUT AV OUT



REF	DESCRIPTION	QTY	UNIT
1
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50



Page 10 (10)
OPERATION 10, 1000



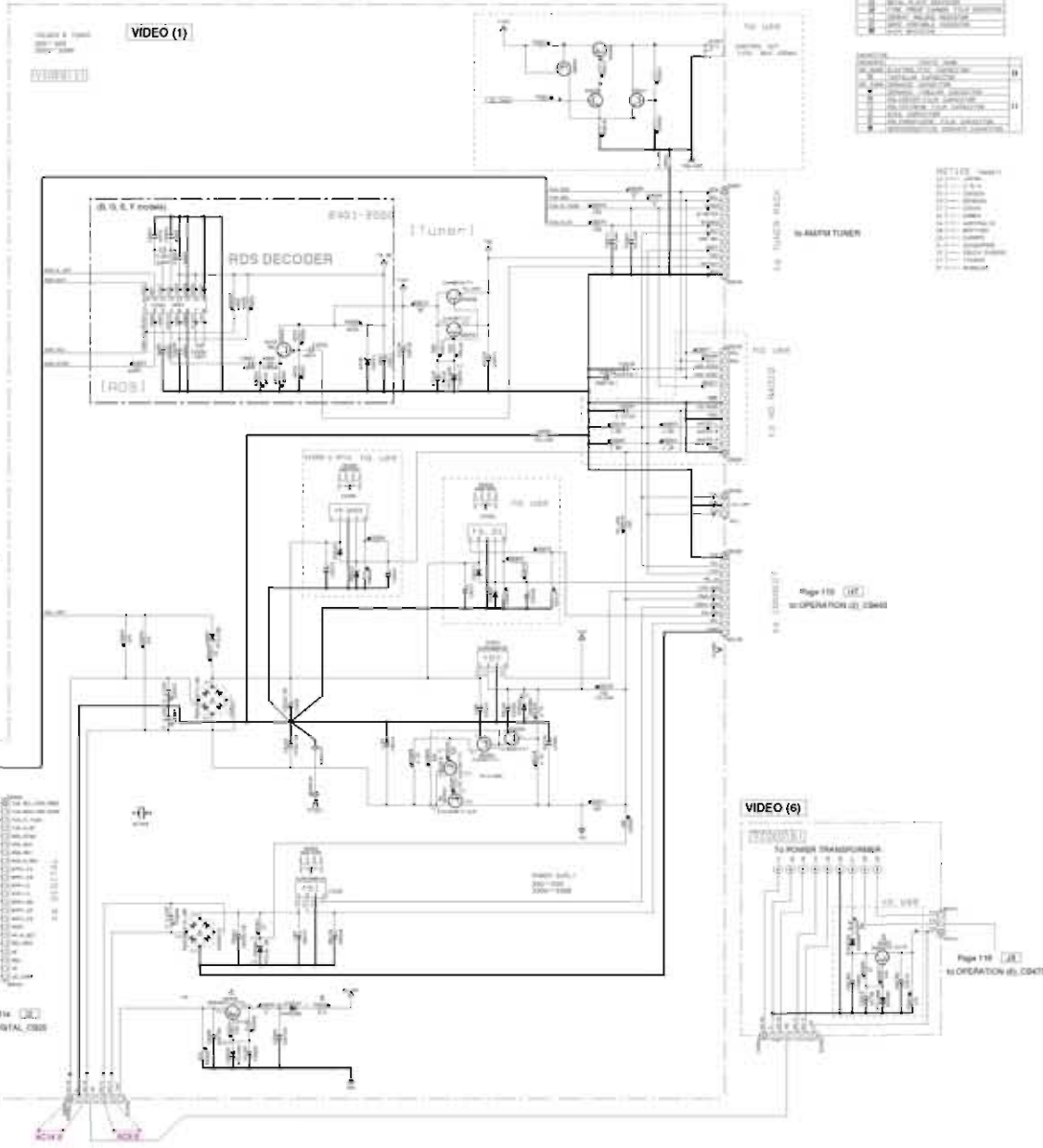
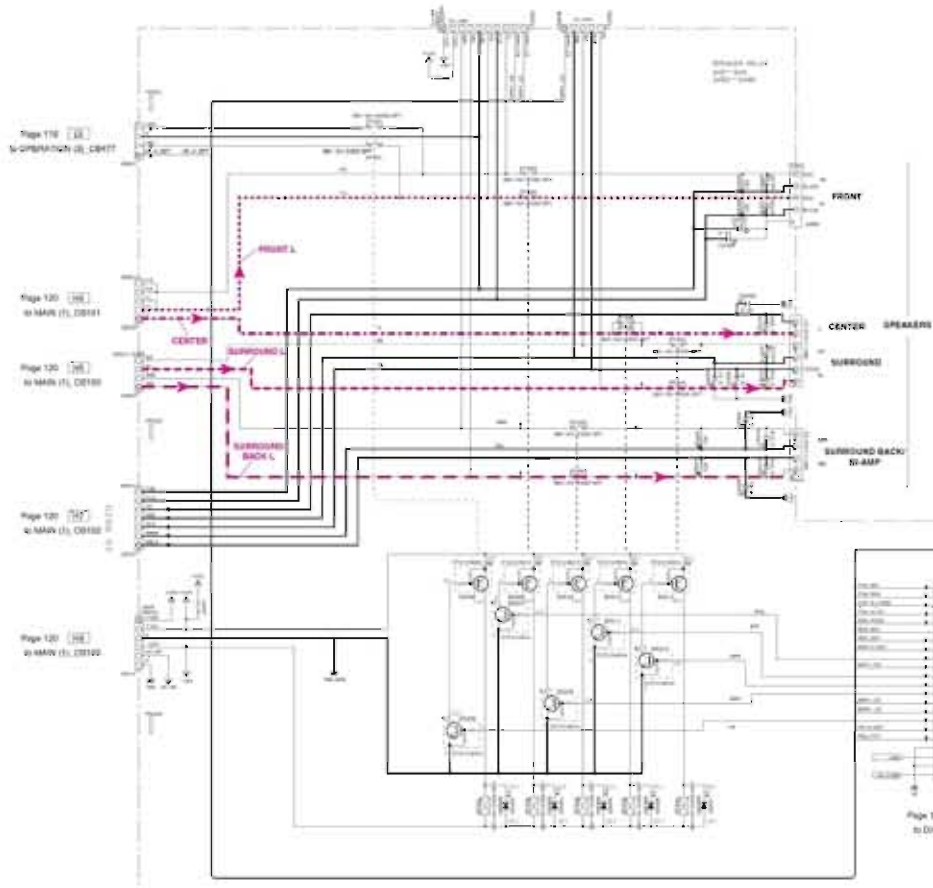
Page 11 (11)
OPERATION 11, 1000



REF	DESCRIPTION	QTY	UNIT
1
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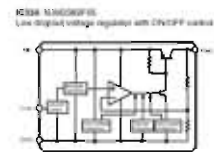
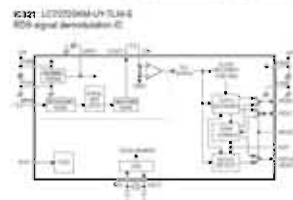
All voltages are measured with a 10MΩ DC electronic voltmeter.
 Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 External diagrams is subject to change without notice.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

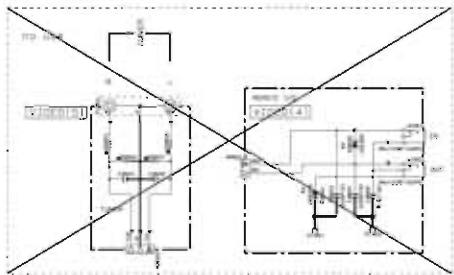


1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

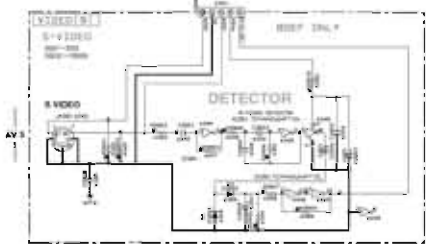
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



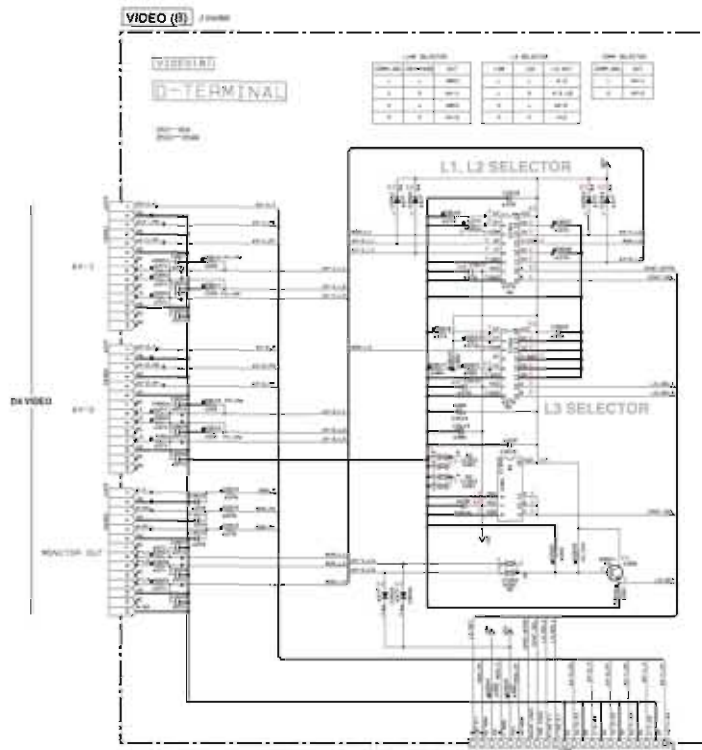
- All voltages are measured with a 10kΩ DC voltmeter unless stated otherwise.
- Components having special characteristics are marked with an asterisk (*).
- Parts having specifications equal to those originally supplied are acceptable.
- Electronic diagrams are subject to change without notice.



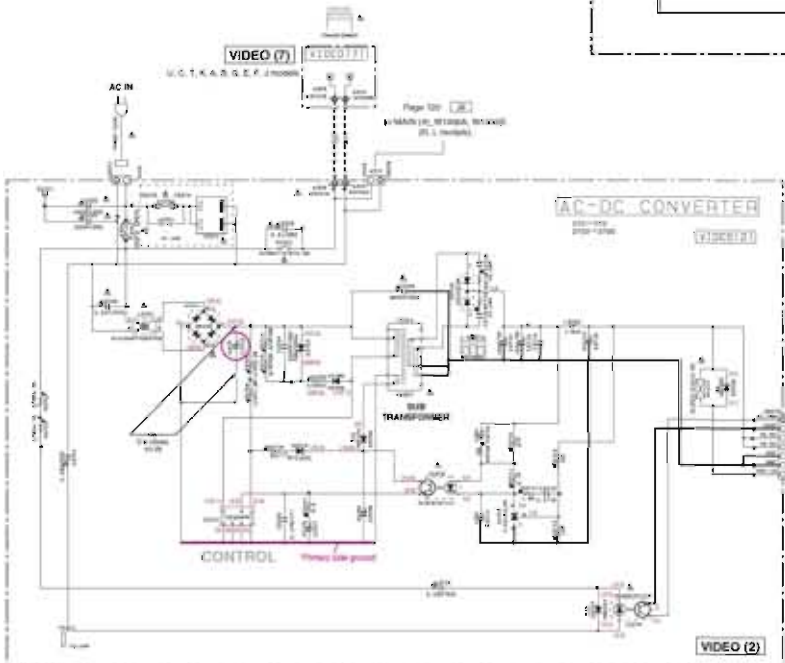
Page 117 (1) to DIGITAL_CBS



VIDEO (9) S.A.S.F. model

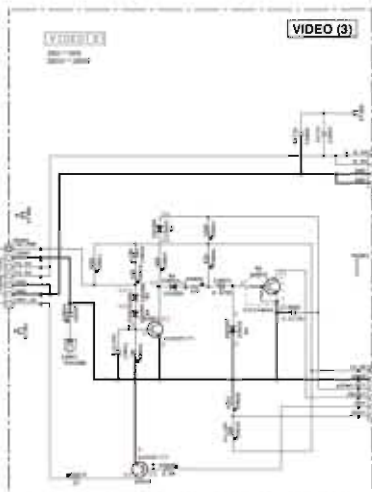


Page 120 (2) to VIDEO (1), S.M.S.



Page 120 (2) to TRANS (1), S.M.S. (S.L. model)

VIDEO (2)



VIDEO (3)

Page 119 (1) to DIGITAL_CBS

Page 114 (2) to DIGITAL_CBS

REF.	DESCRIPTION	VALUE	UNIT	REMARKS
R101	Resistor	10K	Ω	
R102	Resistor	10K	Ω	
R103	Resistor	10K	Ω	
R104	Resistor	10K	Ω	
R105	Resistor	10K	Ω	
R106	Resistor	10K	Ω	
R107	Resistor	10K	Ω	
R108	Resistor	10K	Ω	
R109	Resistor	10K	Ω	
R110	Resistor	10K	Ω	
R111	Resistor	10K	Ω	
R112	Resistor	10K	Ω	
R113	Resistor	10K	Ω	
R114	Resistor	10K	Ω	
R115	Resistor	10K	Ω	
R116	Resistor	10K	Ω	
R117	Resistor	10K	Ω	
R118	Resistor	10K	Ω	
R119	Resistor	10K	Ω	
R120	Resistor	10K	Ω	
R121	Resistor	10K	Ω	
R122	Resistor	10K	Ω	
R123	Resistor	10K	Ω	
R124	Resistor	10K	Ω	
R125	Resistor	10K	Ω	
R126	Resistor	10K	Ω	
R127	Resistor	10K	Ω	
R128	Resistor	10K	Ω	
R129	Resistor	10K	Ω	
R130	Resistor	10K	Ω	
R131	Resistor	10K	Ω	
R132	Resistor	10K	Ω	
R133	Resistor	10K	Ω	
R134	Resistor	10K	Ω	
R135	Resistor	10K	Ω	
R136	Resistor	10K	Ω	
R137	Resistor	10K	Ω	
R138	Resistor	10K	Ω	
R139	Resistor	10K	Ω	
R140	Resistor	10K	Ω	
R141	Resistor	10K	Ω	
R142	Resistor	10K	Ω	
R143	Resistor	10K	Ω	
R144	Resistor	10K	Ω	
R145	Resistor	10K	Ω	
R146	Resistor	10K	Ω	
R147	Resistor	10K	Ω	
R148	Resistor	10K	Ω	
R149	Resistor	10K	Ω	
R150	Resistor	10K	Ω	
R151	Resistor	10K	Ω	
R152	Resistor	10K	Ω	
R153	Resistor	10K	Ω	
R154	Resistor	10K	Ω	
R155	Resistor	10K	Ω	
R156	Resistor	10K	Ω	
R157	Resistor	10K	Ω	
R158	Resistor	10K	Ω	
R159	Resistor	10K	Ω	
R160	Resistor	10K	Ω	
R161	Resistor	10K	Ω	
R162	Resistor	10K	Ω	
R163	Resistor	10K	Ω	
R164	Resistor	10K	Ω	
R165	Resistor	10K	Ω	
R166	Resistor	10K	Ω	
R167	Resistor	10K	Ω	
R168	Resistor	10K	Ω	
R169	Resistor	10K	Ω	
R170	Resistor	10K	Ω	
R171	Resistor	10K	Ω	
R172	Resistor	10K	Ω	
R173	Resistor	10K	Ω	
R174	Resistor	10K	Ω	
R175	Resistor	10K	Ω	
R176	Resistor	10K	Ω	
R177	Resistor	10K	Ω	
R178	Resistor	10K	Ω	
R179	Resistor	10K	Ω	
R180	Resistor	10K	Ω	
R181	Resistor	10K	Ω	
R182	Resistor	10K	Ω	
R183	Resistor	10K	Ω	
R184	Resistor	10K	Ω	
R185	Resistor	10K	Ω	
R186	Resistor	10K	Ω	
R187	Resistor	10K	Ω	
R188	Resistor	10K	Ω	
R189	Resistor	10K	Ω	
R190	Resistor	10K	Ω	
R191	Resistor	10K	Ω	
R192	Resistor	10K	Ω	
R193	Resistor	10K	Ω	
R194	Resistor	10K	Ω	
R195	Resistor	10K	Ω	
R196	Resistor	10K	Ω	
R197	Resistor	10K	Ω	
R198	Resistor	10K	Ω	
R199	Resistor	10K	Ω	
R200	Resistor	10K	Ω	
R201	Resistor	10K	Ω	
R202	Resistor	10K	Ω	
R203	Resistor	10K	Ω	
R204	Resistor	10K	Ω	
R205	Resistor	10K	Ω	
R206	Resistor	10K	Ω	
R207	Resistor	10K	Ω	
R208	Resistor	10K	Ω	
R209	Resistor	10K	Ω	
R210	Resistor	10K	Ω	
R211	Resistor	10K	Ω	
R212	Resistor	10K	Ω	
R213	Resistor	10K	Ω	
R214	Resistor	10K	Ω	
R215	Resistor	10K	Ω	
R216	Resistor	10K	Ω	
R217	Resistor	10K	Ω	
R218	Resistor	10K	Ω	
R219	Resistor	10K	Ω	
R220	Resistor	10K	Ω	
R221	Resistor	10K	Ω	
R222	Resistor	10K	Ω	
R223	Resistor	10K	Ω	
R224	Resistor	10K	Ω	
R225	Resistor	10K	Ω	
R226	Resistor	10K	Ω	
R227	Resistor	10K	Ω	
R228	Resistor	10K	Ω	
R229	Resistor	10K	Ω	
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R236	Resistor	10K	Ω	
R237	Resistor	10K	Ω	
R238	Resistor	10K	Ω	
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R240	Resistor	10K	Ω	
R241	Resistor	10K	Ω	
R242	Resistor	10K	Ω	
R243	Resistor	10K	Ω	
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R247	Resistor	10K	Ω	
R248	Resistor	10K	Ω	
R249	Resistor	10K	Ω	
R250	Resistor	10K	Ω	
R251	Resistor	10K	Ω	
R252	Resistor	10K	Ω	
R253	Resistor	10K	Ω	
R254	Resistor	10K	Ω	
R255	Resistor	10K	Ω	
R256	Resistor	10K	Ω	
R257	Resistor	10K	Ω	
R258	Resistor	10K	Ω	
R259	Resistor	10K	Ω	
R260	Resistor	10K	Ω	
R261	Resistor	10K	Ω	
R262	Resistor	10K	Ω	
R263	Resistor	10K	Ω	
R264	Resistor	10K	Ω	
R265	Resistor	10K	Ω	
R266	Resistor	10K	Ω	
R267	Resistor	10K	Ω	
R268	Resistor	10K	Ω	
R269	Resistor	10K	Ω	
R270	Resistor	10K	Ω	
R271	Resistor	10K	Ω	
R272	Resistor	10K	Ω	
R273	Resistor	10K	Ω	
R274	Resistor	10K	Ω	
R275	Resistor	10K	Ω	
R276	Resistor	10K	Ω	
R277	Resistor	10K	Ω	
R278	Resistor	10K	Ω	
R279	Resistor	10K	Ω	
R280	Resistor	10K	Ω	
R281	Resistor	10K	Ω	
R282	Resistor	10K	Ω	
R283	Resistor	10K	Ω	
R284	Resistor	10K	Ω	
R285	Resistor	10K	Ω	
R286	Resistor	10K	Ω	
R287	Resistor	10K	Ω	
R288	Resistor	10K	Ω	
R289	Resistor	10K	Ω	
R290	Resistor	10K	Ω	
R291	Resistor	10K	Ω	
R292	Resistor	10K	Ω	
R293	Resistor	10K	Ω	
R294	Resistor	10K	Ω	
R295	Resistor	10K	Ω	
R296	Resistor	10K	Ω	
R297	Resistor	10K	Ω	
R298	Resistor	10K	Ω	
R299	Resistor	10K	Ω	
R300	Resistor	10K	Ω	

REF.	DESCRIPTION	VALUE	UNIT	REMARKS
C101	Capacitor	100nF	F	
C102	Capacitor	100nF	F	
C103	Capacitor	100nF	F	
C104	Capacitor	100nF	F	
C105	Capacitor	100nF	F	
C106	Capacitor	100nF	F	
C107	Capacitor	100nF	F	
C108	Capacitor	100nF	F	
C109	Capacitor	100nF	F	
C110	Capacitor	100nF	F	
C111	Capacitor	100nF	F	
C112	Capacitor	100nF	F	
C113	Capacitor	100nF	F	
C114	Capacitor	100nF	F	
C115	Capacitor	100nF	F	
C116	Capacitor	100nF	F	
C117	Capacitor	100nF	F	
C118	Capacitor	100nF	F	
C119	Capacitor	100nF	F	
C120	Capacitor	100nF	F	
C121	Capacitor	100nF	F	
C122	Capacitor	100nF	F	
C123	Capacitor	100nF	F	
C124	Capacitor	100nF	F	
C125	Capacitor	100nF	F	
C126	Capacitor	100nF	F	
C127	Capacitor	100nF	F	
C128	Capacitor	100nF	F	
C129	Capacitor	100nF	F	
C130	Capacitor	100nF	F	
C131	Capacitor	100nF	F	
C132	Capacitor	100nF	F	
C133	Capacitor	100nF	F	
C134	Capacitor	100nF	F	
C135	Capacitor	100nF	F	
C136	Capacitor	100nF	F	
C137	Capacitor	100nF	F	
C138	Capacitor	100nF	F	
C139	Capacitor	100nF	F	
C140	Capacitor	100nF	F	
C141	Capacitor	100nF	F	
C142	Capacitor	100nF	F	
C143	Capacitor	100nF	F	
C144	Capacitor	100nF	F	
C145	Capacitor	100nF	F	
C146	Capacitor	100nF	F	
C147	Capacitor	100nF	F	
C148	Capacitor	100nF	F	
C149	Capacitor	100nF	F	
C150	Capacitor	100nF	F	
C151	Capacitor	100nF	F	
C152	Capacitor	100nF	F	
C15				

■ REPLACEMENT PARTS LIST

- ELECTRICAL COMPONENT PARTS

WARNING

- Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- 印のある部分は、安全確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
- 部品価格ラゲは、予告なく変更することがあります。

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

C.AE.L.CHP : CHIP ALUMI ELECTROLYTIC CAP
 C.CE : CERAMIC CAP
 C.CE.ARRAY : CERAMIC CAP ARRAY
 C.CE.CHP : CHIP CERAMIC CAP
 C.CE.ML : MULTILAYER CERAMIC CAP
 C.CE.M.CHP : CHIP MULTILAYER CERAMIC CAP
 C.CE.SAFETY : RECOGNIZED CERAMIC CAP
 C.CE.TUBLR : CERAMIC TUBULAR CAP
 C.CE.SMI : SEMI CONDUCTIVE CERAMIC CAP
 C.EL : ELECTROLYTIC CAP
 C.MICA : MICA CAP
 C.ML.FLM : MULTILAYER FILM CAP
 C.MP : METALLIZED PAPER CAP
 C.MYLAR : MYLAR FILM CAP
 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 : CONNECTOR, DIN
 CN.FLAT : CONNECTOR, FLAT CABLE
 CN.POST : CONNECTOR, BASE POST
 COIL.MX.AM : COIL, AM MIX
 COIL.AT.FM : COIL, FM ANTENNA
 COIL.DT.FM : COIL, FM DETECT
 COIL.MX.FM : COIL, FM MIX
 COIL.OUTPT : OUTPUT COIL
 DIOD.ARRAY : DIODE ARRAY
 DIODE.BRG : DIODE BRIDGE
 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
 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

L.EMIT : LIGHT EMITTING MODULE
 LED.DSPLY : LED DISPLAY
 LED.INFRD : LED, INFRARED
 MODUL.RF : MODULATOR, RF
 PHOT.CPL : PHOTO COUPLER
 PHOT.INTR : PHOTO INTERRUPTER
 PHOT.REFLT : PHOTO REFLECTOR
 PIN.TEST : PIN, TEST POINT
 PLST.RIVET : PLASTIC RIVET
 R.ARRAY : RESISTOR ARRAY
 R.CAR : CARBON RESISTOR
 R.CAR.CHP : CHIP RESISTOR
 R.CAR.FP : FLAME PROOF CARBON RESISTOR
 R.FUS : FUSIBLE RESISTOR
 R.MTL.CHP : CHIP METAL FILM RESISTOR
 R.MTL.FLM : METAL FILM RESISTOR
 R.MTL.OXD : METAL OXIDE FILM RESISTOR
 R.MTL.PLAT : METAL PLATE RESISTOR
 R.SNR.CE : CERAMIC RESONATOR
 R.SNR.CRY : CRYSTAL RESONATOR
 R.TW.CEM : TWIN CEMENT FIXED RESISTOR
 R.CEMENT : CEMENT RESISTOR
 SCR.BND.HD : BIND HEAD B-TIGHT SCREW
 SCR.BW.HD : BW HEAD TAPPING SCREW
 SCR.CUP : CUP TIGHT SCREW
 SCR.TERM : SCREW TERMINAL
 SCR.TR : SCREW, TRANSISTOR
 SUPRT.PCB : SUPPORT, P.C.B.
 SURG.PRTCT : 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.RT.MTR : ROTARY SWITCH WITH MOTOR
 SW.RT : ROTARY SWITCH
 SW.SLIDE : SLIDE SWITCH
 TERM.SP : SPEAKER TERMINAL
 TERM.WRAP : WRAPPING TERMINAL
 THRMST.CHP : CHIP THERMISTOR
 TR.CHP : CHIP TRANSISTOR
 TR.DGT : DIGITAL TRANSISTOR
 TR.DGT.CHP : CHIP DIGITAL TRANSISTOR
 TRANS : TRANSFORMER
 TRANS.PULS : PULSE TRANSFORMER
 TRANS.PWR : POWER TRANSFORMER ASSY
 TUNER.AM : TUNER PACK, AM
 TUNER.FM : TUNER PACK, FM
 TUNER.PK : FRONT-END TUNER PACK
 VR : ROTARY POTENTIOMETER
 VR.MTR : POTENTIOMETER WITH MOTOR
 VR.SW : POTENTIOMETER WITH ROTARY SW
 VR.SLIDE : SLIDE POTENTIOMETER
 VR.TRIM : TRIMMER POTENTIOMETER

P.C.B. DIGITAL

Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
C85	US063120	C. CE. CHP	50V B		チップセラコン	01
C86	US135100	C. CE. CHP	0.1uF		チップセラコン	01
C87	US063120	C. CE. CHP	1200pF		チップセラコン	01
C88-90	US135100	C. CE. CHP	0.1uF		チップセラコン	01
C91-92	WD758300	C. CE. CHP	10uF		チップセラコン	01
C93	US135100	C. CE. CHP	0.1uF		チップセラコン	01
C94	WD758300	C. CE. CHP	10uF		チップセラコン	01
C97-101	US135100	C. CE. CHP	0.1uF		チップセラコン	01
C102	UR267470	C. EL	47uF		ケミコン	01
C103	WG251600	C. CE. CHP	4.7uF	6.3V	チップセラコン	01
C104	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C105	WH772100	C. EL	1000uF	10V	ケミコン	04
C106-124	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C136	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C137-138	US062470	C. CE. CHP	470pF	50V B	チップセラコン	01
C200	UR837330	C. EL	33uF	16V	ケミコン	01
C201	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C202	US064100	C. CE. CHP	0.01uF	50V B	チップセラコン	01
C204-205	US064100	C. CE. CHP	0.01uF	50V B	チップセラコン	01
C207-211	US064100	C. CE. CHP	0.01uF	50V B	チップセラコン	01
C212	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C214	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C215-216	US064100	C. CE. CHP	0.01uF	50V B	チップセラコン	01
C217	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C218-219	US064100	C. CE. CHP	0.01uF	50V B	チップセラコン	01
C220-225	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C226	WG251600	C. CE. CHP	4.7uF	6.3V	チップセラコン	01
C228-229	WG251600	C. CE. CHP	4.7uF	6.3V	チップセラコン	01
C231	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C234-238	US046100	C. CE. CHP	1uF	25V	チップセラコン	01
C239-242	US062100	C. CE. CHP	100pF	50V B	チップセラコン	01
C243	US064100	C. CE. CHP	0.01uF	50V B	チップセラコン	01
C244-254	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C402-403	US064100	C. CE. CHP	0.01uF	50V B	チップセラコン	01
C410-411	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C412	US035100	C. CE. CHP	0.1uF	16V B	チップセラコン	01
C413-414	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C415	US044220	C. CE. CHP	0.022uF	25V B	チップセラコン	01
C416	US062100	C. CE. CHP	100pF	50V B	チップセラコン	01
C418	US062220	C. CE. CHP	220pF	50V B	チップセラコン	01
C419	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C420	US062220	C. CE. CHP	220pF	50V B	チップセラコン	01
C422	US062220	C. CE. CHP	220pF	50V B	チップセラコン	01
C424-425	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C426	US062220	C. CE. CHP	220pF	50V B	チップセラコン	01
C430	UR067470	C. EL	47uF	50V	ケミコン	01
C431	US062100	C. CE. CHP	100pF	50V B	チップセラコン	01
C432-433	US062220	C. CE. CHP	220pF	50V B	チップセラコン	01
C434-436	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C437-438	US062100	C. CE. CHP	100pF	50V B	チップセラコン	01
C439	US061100	C. CE. CHP	10pF	50V B	チップセラコン	01
C440	US060800	C. CE. CHP	8pF	50V B	チップセラコン	01
C441-442	US062390	C. CE. CHP	390pF	50V B	チップセラコン	01
C445-446	UR837100	C. EL	10uF	16V	ケミコン	01
C447-448	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C449-450	UR237470	C. EL	47uF	16V	ケミコン	01
C451	US062100	C. CE. CHP	100pF	50V B	チップセラコン	01

* New Parts * 新規部品

P.C.B. DIGITAL

Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
C452	UR067100	C. EL			ケミコン	01
C453	US126100	C. CE. CHP	50V		チップセラコン	01
C454-472	US135100	C. CE. CHP	10V		チップセラコン	01
C473	US062680	C. CE. CHP	16V		チップセラコン	01
C474-476	US135100	C. CE. CHP	680pF	50V B	チップセラコン	01
C477	WG251600	C. CE. CHP	0.1uF	16V	チップセラコン	01
C478-484	US135100	C. CE. CHP	4.7uF	6.3V	チップセラコン	01
C485	WG251600	C. CE. CHP	0.1uF	16V	チップセラコン	01
C486	US135100	C. CE. CHP	4.7uF	6.3V	チップセラコン	01
C488-489	UU297220	C. EL	0.1uF	16V	チップセラコン	01
C491-493	US135100	C. CE. CHP	22uF	100V	ケミコン	01
C494-496	US063100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C497-498	US135100	C. CE. CHP	1000pF	50V B	チップセラコン	01
C499-502	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C503-519	US135100	C. CE. CHP	1000pF	50V B	チップセラコン	01
C600	UU267220	C. EL	0.1uF	16V	ケミコン	01
C601-603	US135100	C. CE. CHP	22uF	50V	チップセラコン	01
C604-605	US064100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C606	UR067100	C. EL	0.01uF	50V B	チップセラコン	01
C608-609	US135100	C. CE. CHP	10uF	50V	ケミコン	01
C610	US126100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C611	US062100	C. CE. CHP	1uF	10V	チップセラコン	01
C612	UR067100	C. EL	100pF	50V B	チップセラコン	01
C613-614	US126100	C. CE. CHP	10uF	50V	ケミコン	01
C619	US135100	C. CE. CHP	1uF	10V	チップセラコン	01
C620	UR067470	C. EL	0.1uF	16V	チップセラコン	01
C622	UR067100	C. EL	47uF	50V	ケミコン	01
C623	US135100	C. CE. CHP	10uF	50V	ケミコン	01
C624	UU267100	C. EL	0.1uF	16V	チップセラコン	01
C625	US135100	C. CE. CHP	10uF	50V	ケミコン	01
C626	UR067100	C. EL	0.1uF	16V	チップセラコン	01
C627-628	WJ603600	C. MYLAR	10uF	50V	ケミコン	01
C633-634	UR067100	C. EL	820pF	50V J	マイラーコン	01
C635-642	US062100	C. CE. CHP	10uF	50V	ケミコン	01
C700-702	US135100	C. CE. CHP	100pF	50V B	チップセラコン	01
C703-704	WD758300	C. CE. CHP	0.1uF	16V	チップセラコン	01
C705-706	US135100	C. CE. CHP	10uF	10V	チップセラコン	01
C707-708	WD758300	C. CE. CHP	0.1uF	16V	チップセラコン	01
C709-710	US135100	C. CE. CHP	10uF	10V	チップセラコン	01
C711-712	US064100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C713	UF037220	C. EL. CHP	0.01uF	50V B	チップセラコン	01
C714-717	US135100	C. CE. CHP	22uF	16V	チップセラコン	01
C718	US034390	C. CE. CHP	0.1uF	16V	チップセラコン	01
C719-721	US135100	C. CE. CHP	0.039uF	16V B	チップセラコン	01
C722-723	US063100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C724-725	US135100	C. CE. CHP	1000pF	50V B	チップセラコン	01
C726	US064100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C727	US135100	C. CE. CHP	0.01uF	50V B	チップセラコン	01
C728	US064100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C729	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C730	VZ243400	C. CE. CHP	0.33uF	16V	チップセラコン	01
C731	VZ281900	C. CE. CHP	0.47uF	16V K	チップセラ	01
C732	US034820	C. CE. CHP	0.082uF	16V K	チップセラコン	01
C733	US064100	C. CE. CHP	0.01uF	50V B	チップセラコン	01
C734	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C735	US061100	C. CE. CHP	10pF	50V B	チップセラコン	01
C736	US060800	C. CE. CHP	8pF	50V B	チップセラコン	01

* New Parts * 新規部品

P.C.B. DIGITAL

Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
C737-742	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C743	UF037220	C. EL. CHP	22uF		チップセラコン	01
C744-746	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C747	UF037100	C. EL. CHP	10uF		チップセラコン	01
C748-749	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C750	UF037220	C. EL. CHP	22uF		チップセラコン	01
C751	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C752	UF037220	C. EL. CHP	22uF		チップセラコン	01
C753	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C754	UF037100	C. EL. CHP	10uF		チップセラコン	01
C755-757	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C758	UF037220	C. EL. CHP	22uF		チップセラコン	01
C759	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C763	UF037220	C. EL. CHP	22uF		チップセラコン	01
C764-766	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C772	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C774-776	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C779	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C782-790	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C791	UF037220	C. EL. CHP	22uF		チップセラコン	01
C792-794	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
C795	UF037100	C. EL. CHP	10uF		チップセラコン	01
C796-797	US063100	C. CE. CHP	1000pF		チップセラコン	01
C798-799	US064100	C. CE. CHP	0. 01uF		チップセラコン	01
C800-805	US135100	C. CE. CHP	0. 1uF		チップセラコン	01
D2	WE674800	D10DE	AVRL161A1RINTB		チップバリスタ	01
D11-14	WE674800	D10DE	AVRL161A1RINTB		チップバリスタ	01
D23-26	WE674800	D10DE	AVRL161A1RINTB		チップバリスタ	01
D35-38	WE674800	D10DE	AVRL161A1RINTB		チップバリスタ	01
D47-49	WE674800	D10DE	AVRL161A1RINTB		チップバリスタ	01
D60-61	WE674800	D10DE	AVRL161A1RINTB		チップバリスタ	01
D62	VW220700	D10DE. SHOT	RB501V-40		ショットキーダイオード	01
D63-64	V6267600	D10DE	RB051L-40		ダイオード	01
D65	WE674800	D10DE	AVRL161A1RINTB		チップバリスタ	01
D200-204	VU990900	D10DE. ZENR	MAZ80336HL 3. 4V		ツェナーダイオード	01
D403-404	VT332900	D10DE	1SS355		ダイオード	01
D600	VT332900	D10DE	1SS355		ダイオード	01
D602-603	VT332900	D10DE	1SS355		ダイオード	01
D702-703	VT332900	D10DE	1SS355		ダイオード	01
IC2	XZ287A00	IC	SN74LVC245APWR		ロジック IC	02
IC3	XS775A00	IC	TC7SH04FU		ロジック IC フラット	01
IC5	X7195A00	IC	R1172S121D-E2-F		電源 IC	04
IC10	X7741A00	IC	NJM2867F3-05 (TE1)		電源 IC	02
IC11	X0199B00	IC	TC74VHC157FT (EL. K)		ロジック IC	01
IC13	YA255A00	IC	R1172H501D-T1-F		電源 IC	01
* IC20	X8328A00	IC. CPU	M30878FJBG	unwritten	IC CPU	10
IC21	X8194A00	IC	R1172H331D-T1-F		電源 IC	03
* IC22	YA398A00	IC. MEMORY	LE25LA322M-TLM-E		メモリ IC	
* IC41	YA399A00	IC	LC89058ND-E		IC	
IC43	X7378A00	IC	NJM4565M (TE1)		アンプ IC	01
IC46	X0199B00	IC	TC74VHC157FT (EL. K)		ロジック IC	01
IC47	X7195A00	IC	R1172S121D-E2-F		電源 IC	04
IC48	X9626B00	IC. MEMORY	K4S641632N-LC60000		メモリ IC 64 M	
* IC49	YA540C00	IC. MEMORY	MX29LV160DBT1-70G	written	メモリ IC 16 M	
IC50	XR680A00	IC	TC7SH08FU (TE85L. JF		ロジック IC	01
IC62	X0199B00	IC	TC74VHC157FT (EL. K)		ロジック IC	01
IC63	XS534A00	IC	NJM78M05DL1A		電源 IC	02

* New Parts * 新規部品

P.C.B. DIGITAL and P.C.B. OPERATION

Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
IC65	X7355A00	IC			IC	07
IC66	X7357A00	IC	PCMT1680DBRR		IC	04
IC67	X3586B00	IC	TC74VHC108AFT EL, K		ロジックIC	01
IC70	X9393A00	IC	ADV7800BSTZ-80		ICビデオコーダ	13
IC71	YA215A00	IC	ABT1012		ビデオスケウラ	
IC73	X9460A00	IC	RI172H181B-T1-F		電源IC	03
IC74	X8194A00	IC	RI172H331D-T1-F		電源IC	03
IC75	X8531A00	IC	TC7WZ32FK		ロジックIC	02
IC76-78	XZ283A00	IC	SN74LVTH245APW BUS		ロジックIC	04
PN20-22	V9637500	PIN	L=70 #18		スタイルピン	
Q1-8	VQ986700	TR	2SC4081 T106		トランジスタ	01
Q200	WQ381000	FET	MCH6336-TL-E		MOS FET	
Q201-202	VW655300	TR. DGT	DTA144EKA		デジタルトランジスタ	01
Q205-209	VR936300	TR	2SA1576A T106		トランジスタ	01
Q400	WQ381000	FET	MCH6336-TL-E		MOS FET	
Q401	VW655300	TR. DGT	DTA144EKA		デジタルトランジスタ	01
Q402	WQ381000	FET	MCH6336-TL-E		MOS FET	
Q403	VW655000	TR. DGT	DTA114EKA		デジタルトランジスタ	01
Q404	VW655300	TR. DGT	DTA144EKA		デジタルトランジスタ	01
Q700	WQ381000	FET	MCH6336-TL-E		MOS FET	
Q701	VR936300	TR	2SA1576A T106		トランジスタ	01
Q702	WQ381000	FET	MCH6336-TL-E		MOS FET	
Q703	VR936300	TR	2SA1576A T106		トランジスタ	01
R88	WJ682800	R. MTL. FLH	2.2Ω 1W		金属被膜抵抗	01
R201		R. CHP	2.2KΩ 1/16W J	V565	チップ抵抗	01
R201		R. CHP	3.9KΩ 1/16W J	6250	チップ抵抗	01
R466-467	HV753220	R. CAR. FP	2.2Ω 1/4W		不燃化カーボン抵抗	01
R601	WJ683800	R. MTL. FLH	15Ω 1W		金属被膜抵抗	01
R607	HV753220	R. CAR. FP	2.2Ω 1/4W		不燃化カーボン抵抗	01
* ST1-2	WR364700	SCR. TERM	M3		スクリューターミナル	03
* XL1	WR725300	RSNR. CRY	27MHz		水晶振動子	02
XL20	WF997400	RSNR. CE	20MHz		セラミック振動子	03
XL42	V3625700	RSNR. CRY	24.576MHz		水晶振動子	03
XL70	VZ772700	RSNR. CRY	28.63636MHz		水晶振動子	03
* CB401	WQ923800	P. C. B.	OPERATION		PCB OPERATION	
CB402	VQ045400	CN. BS. PIN	25P		FFCコネクタ	03
CB404	VQ044400	CN. BS. PIN	9P		FFCコネクタ	01
CB451	VQ961100	CN. BS. PIN	8P		ハウジング	01
CB452	V9357000	CN	19P TE		J E コネクタ	03
CB454	VQ962100	CN. BS. PIN	18P		ハウジング	01
CB455	V9357000	CN	19P TE		J E コネクタ	03
CB456	VQ961800	CN. BS. PIN	15P		ハウジング	01
CB457	VQ961400	CN. BS. PIN	11P		ハウジング	03
CB458	V9357000	CN	19P TE		J E コネクタ	01
CB459	VQ963300	CN. BS. PIN	12P		ウエハー	01
CB460	VQ963100	CN. BS. PIN	10P		ウエハー	01
CB461	VQ044400	CN. BS. PIN	9P		FFCコネクタ	01
CB477	VB858300	CN. BS. PIN	4P		コネクタベースポスト	01
C4001	US063100	C. CE. CHP	1000pF 50V B		チップセラコン	01
C4002	US065100	C. CE. CHP	0.1uF 50V B		チップセラコン	01
C4003	UR067100	C. EL	10uF 50V		ケミコン	01
C4004	US064100	C. CE. CHP	0.01uF 50V B		チップセラコン	01
C4005	UR837220	C. EL	22uF 16V		ケミコン	01
C4006	US062100	C. CE. CHP	100pF 50V B		チップセラコン	01

* New Parts * 新規部品

P.C.B. OPERATION

Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
C4007	UR257470	C. EL			ケミコン	01
C4008	US061330	C. CE. CHP	35V		チップセラコン	01
C4009-4010	UR267220	C. EL	50V B		ケミコン	01
C4011	UR067100	C. EL	50V		ケミコン	01
C4012-4013	US135100	C. CE. CHP	10uF		チップセラコン	01
C4015	UR268220	C. EL	0. 1uF 16V		ケミコン	01
C4016	UM388330	C. EL	220uF 50V		ケミコン	01
C4017	US135100	C. CE. CHP	330uF 6. 3V		ケミコン	01
C4018	US061680	C. CE. CHP	0. 1uF 16V		チップセラコン	01
C4019	US065100	C. CE. CHP	68pF 50V B		チップセラコン	01
C4020-4021	US135100	C. CE. CHP	0. 1uF 50V B		チップセラコン	01
C4022	US064100	C. CE. CHP	0. 1uF 16V		チップセラコン	01
C4023-4024	US063100	C. CE. CHP	0. 01uF 50V B		チップセラコン	01
C4025-4026	US065100	C. CE. CHP	1000pF 50V B		チップセラコン	01
C4027	US135100	C. CE. CHP	0. 1uF 50V B		チップセラコン	01
C4028	US062100	C. CE. CHP	0. 1uF 16V		チップセラコン	01
C4030	US062100	C. CE. CHP	100pF 50V B		チップセラコン	01
C4031	US062470	C. CE. CHP	100pF 50V B		チップセラコン	01
C4032	US135100	C. CE. CHP	470pF 50V B		チップセラコン	01
C4033	US063100	C. CE. CHP	0. 1uF 16V		チップセラコン	01
C4034	UM417100	C. EL	1000pF 50V B		チップセラコン	01
C4035	US135100	C. CE. CHP	10uF 50V		ケミコン	01
C4036	US063100	C. CE. CHP	0. 1uF 16V		チップセラコン	01
C4037	US064100	C. CE. CHP	1000pF 50V B		チップセラコン	01
C4212	US062100	C. CE. CHP	0. 01uF 50V B		チップセラコン	01
C4213	UR067100	C. EL	100pF 50V B		チップセラコン	01
C4214	UR037100	C. EL	10uF 16V		ケミコン	01
C4215	WJ603500	C. MYLAR	10uF 50V		ケミコン	01
C4216	US135100	C. CE. CHP	680pF 50V		マイラーコン	01
C4217	UR267470	C. EL	0. 1uF 16V		チップセラコン	01
C4218	US135100	C. CE. CHP	47uF 50V		ケミコン	01
C4219	UR267470	C. EL	0. 1uF 16V		チップセラコン	01
C4220	WJ603500	C. MYLAR	47uF 50V		ケミコン	01
C4221	UR037100	C. EL	680pF 50V		マイラーコン	01
C4222	UR067100	C. EL	10uF 16V		ケミコン	01
C4223-4224	US062100	C. CE. CHP	10uF 50V		チップセラコン	01
C4225	UR067100	C. EL	100pF 50V B		ケミコン	01
C4226	UR037100	C. EL	10uF 50V		ケミコン	01
C4227	WJ603500	C. MYLAR	10uF 16V		ケミコン	01
C4228-4229	US135100	C. CE. CHP	680pF 50V		マイラーコン	01
C4230	WJ605800	C. MYLAR	0. 1uF 16V		チップセラコン	01
C4231-4232	UR067100	C. EL	0. 047uF 50V J		マイラーコン	01
C4233	WJ604700	C. MYLAR	10uF 50V		ケミコン	01
C4234	US062100	C. CE. CHP	6800pF 50V		マイラーコン	01
C4235	UR067100	C. EL	100pF 50V B		チップセラコン	01
C4236	UR037100	C. EL	10uF 50V		ケミコン	01
C4237	WJ603500	C. MYLAR	10uF 16V		ケミコン	01
C4238-4239	US135100	C. CE. CHP	680pF 50V		マイラーコン	01
C4240	WJ603500	C. MYLAR	0. 1uF 16V		チップセラコン	01
C4241	UR037100	C. EL	680pF 50V		マイラーコン	01
C4242	UR067100	C. EL	10uF 16V		ケミコン	01
C4243-4244	US062100	C. CE. CHP	10uF 50V		ケミコン	01
C4245	UR067100	C. EL	100pF 50V B		チップセラコン	01
C4246	UR037100	C. EL	10uF 50V		ケミコン	01
C4247	WJ603500	C. MYLAR	10uF 16V		ケミコン	01
C4248-4249	US135100	C. CE. CHP	680pF 50V		マイラーコン	01
C4250	WJ603500	C. MYLAR	0. 1uF 16V		チップセラコン	01
			680pF 50V		マイラーコン	01

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Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
C4251	UR037100	C. EL	10uF 16V		ケミコン	01
C4252	UR067100	C. EL	10uF 50V		ケミコン	01
C4253	US062100	C. CE. CHP	100pF 50V B		チップセラコン	01
C4403	WJ604300	C. MYLAR	3300pF 50V		マイラーコン	
C4406	WJ604300	C. MYLAR	3300pF 50V		マイラーコン	
C4407	US064100	C. CE. CHP	0. 01uF 50V B		チップセラコン	01
C4408-4409	US063680	C. CE. CHP	6800pF 50V B		チップセラコン	01
C4412	US135100	C. CE. CHP	0. 1uF 16V		チップセラコン	01
C4414	US063100	C. CE. CHP	1000pF 50V B		チップセラコン	01
C4416	US135100	C. CE. CHP	0. 1uF 16V		チップセラコン	01
D4001-4002	VT332900	D10DE	1SS355		ダイオード	01
D4003	VUI171900	D10DE. ZENR	UDZ5. 1B 5. 1V		ツェナーダイオード	01
D4004-4005	VT332900	D10DE	1SS355		ダイオード	01
D4006-4007	VU991900	D10DE. ZENR	MAZ8043GHL 4. 4V		ツェナーダイオード	01
D4009	WR095700	LED	8224-10SDRD/S530A3		LED	01
D4010	VT332900	D10DE	1SS355		ダイオード	01
D4012	VT332900	D10DE	1SS355		ダイオード	01
D4401-4402	VT332900	D10DE	1SS355		ダイオード	01
D4403	VU995000	D10DE. ZENR	MAZ80916ML 9. 1V		ツェナーダイオード	01
D4406-4407	VT332900	D10DE	1SS355		ダイオード	01
D4409	VT332900	D10DE	1SS355		ダイオード	01
D4411	VT332900	D10DE	1SS355		ダイオード	01
IC401	X7378A00	IC	NJM4565M		アンプIC	01
IC402	X6386A00	IC	M66003-0131FP		IC	07
IC451-454	X7378A00	IC	NJM4565M		アンプIC	01
JK401	WC814400	JACK. MNI	JY-3554-01-130		ミニジャック	01
JK471	WJ117400	JACK. MINI	OPTIMIZER MIC		ミニジャック	02
JK472	V9408200	JACK. PHONE	MSJ-064-05B GR		ホンジャック	03
PJ472	WJ117500	JACK. PIN	3P		ホンジャック	03
PN451	V9637500	PIN	L=70 #18		ピン	
PN472	V9637500	PIN	L=70 #18		ピン	
Q4001-4003	WC529400	TR	KTC3875S Y GR RTK		トランジスタ	01
Q4004	VV655400	TR. DGT	DTCT114EKA		デジタルトランジスタ	01
Q4005	WC397700	TR	2N5401C-AT		トランジスタ	01
Q4006-4009	WC529400	TR	KTC3875S Y GR RTK		トランジスタ	01
Q4011-4012	WC529400	TR	KTC3875S Y GR RTK		トランジスタ	01
R4208-4209	HV753220	R. CAR. FP	2. 2Ω 1/4W		不燃化カーボン抵抗	01
R4413-4414	WJ685600	R. MTL. FLM	470Ω 1W J		金属被膜抵抗	01
ST451	WA789600	SCR. TERM	M3		スクリューターミナル	01
ST471	WA789700	SCR. TERM	D3. 5		スクリューターミナル	01
SW401-406	WD483100	SW. TACT	SKRGAA0010		タクト SW	01
SW408-409	WD483100	SW. TACT	SKRGAA0010		タクト SW	01
SW411	WD483100	SW. TACT	SKRGAA0010		タクト SW	01
SW413-414	WD483100	SW. TACT	SKRGAA0010		タクト SW	01
SW416	WD483100	SW. TACT	SKRGAA0010		タクト SW	01
SW419-420	WD483100	SW. TACT	SKRGAA0010		タクト SW	01
SW422-423	WD483100	SW. TACT	SKRGAA0010		タクト SW	01
SW425-427	WD483100	SW. TACT	SKRGAA0010		タクト SW	01
SW443	V9597100	SW. RT. ENG	EC12E2460802		ロータリーエンコーダ	01
SW471	WD483100	SW. TACT	SKRGAA0010		タクト SW	04
U4001	WQ600700	L. DTCT	SM3385VMH6		リモコン受光ユニット	01
V4001	WQ842100	FL. DSPLY	T8-MT-09GNK		蛍光表示管	
	WA790900	SPACER	4. 6/10/32		スペーサ FL	

* New Parts * 新規部品

P.C.B. MAIN

Ref No.	Part No.	Description		Remarks	Markets	部 品 名			ランク
		P. C. B.	MAIN			P. C. B.	MAIN	P. C. B.		MAIN
* CB152	WQ919600	P. C. B.	MAIN		JUCTKABGEF	P. C. B.	MAIN		01
* CB153	WQ919700	P. C. B.	MAIN		R	P. C. B.	MAIN		03
* CB154	WQ919800	P. C. B.	MAIN		L	P. C. B.	MAIN		01
CB155	VQ962900	CN. BS. PIN	8P			ウエハー			03
CB158-159	VQ963900	CN. BS. PIN	18P			ウエハー			01
C1000-1006	VQ963600	CN. BS. PIN	15P			ウエハー			03
C1007	VQ963200	CN. BS. PIN	11P			ウエハー			01
C1008	WN077700	CLIP. FUSE	CLIP PFC5000-0202F		R	ヒューズクリップ			01
C1009	UR067100	C. EL	10uF 50V			ケミコン			01
C1010	WJ605000	C. MYLAR	0.01uF 50V J			マイラーコン			01
C1011	WJ603300	C. MYLAR	470pF 50V J			マイラーコン			01
C1012-1013	UR277220	C. EL	22uF 63V			ケミコン			01
C1014-1015	UR297100	C. EL	10uF 100V			マイラーコン			01
C1016	UR277220	C. EL	22uF 63V			ケミコン			01
C1017-1019	UR297100	C. EL	10uF 100V			ケミコン			01
C1020-1022	WJ603300	C. MYLAR	470pF 50V J			マイラーコン			01
C1023	WJ602900	C. MYLAR	100pF 50V K			マイラーコン			01
C1024	UR067330	C. EL	33uF 50V			ケミコン			01
C1025	WJ602900	C. MYLAR	100pF 50V K			マイラーコン			01
C1026	UR067330	C. EL	33uF 50V			ケミコン			01
C1027	WJ602900	C. MYLAR	100pF 50V K			マイラーコン			01
C1028-1029	UR067330	C. EL	33uF 50V			ケミコン			01
C1030	WJ602900	C. MYLAR	100pF 50V K			マイラーコン			01
C1031	UR067330	C. EL	33uF 50V			ケミコン			01
C1032	WJ602900	C. MYLAR	100pF 50V K			マイラーコン			01
C1033	UR067330	C. EL	33uF 50V			ケミコン			01
C1034	WJ602900	C. MYLAR	100pF 50V K			マイラーコン			01
C1035	UR897100	C. EL	10uF 100V			ケミコン			01
C1036	FG651100	C. CE	10pF 50V			セラコン			01
C1037	WJ602900	C. MYLAR	100pF 50V K			マイラーコン			01
C1038	UR067330	C. EL	33uF 50V			ケミコン			01
C1039	UR866100	C. EL	1uF 50V			ケミコン			01
C1040-1045	FG650500	C. CE	5pF 50V			セラコン			01
C1046-1052	WJ605800	C. MYLAR	0.047uF 50V J			マイラーコン			01
C1053	UR866470	C. EL	4.7uF 50V			ケミコン			01
C1054	UR828220	C. EL	220uF 10V			ケミコン			01
C1055-1056	WN524400	C. EL	6800uF 63V			ケミコン			07
C1057-1058	WK041800	C. EL	10uF 16V			ケミコン			01
C1059-1060	UR266100	C. EL	1uF 50V			ケミコン			01
C1061	UR858100	C. EL	100uF 35V			ケミコン			01
C1062	UR048470	C. EL	470uF 25V			ケミコン			01
C1063-1064	WJ611400	C. MYLAR	0.1uF 100V J			マイラーコン			01
C1065	UR049330	C. EL	3300uF 25V			ケミコン			03
C1066	UR049100	C. EL	1000uF 25V			ケミコン			01
C1067-1068	WN165500	C. PP	0.022uF 100V			PPコン			01
C1069	US135100	C. CE. CHP	0.1uF 16V			チップセラコン			01
C1509	UR067470	C. EL	47uF 50V			ケミコン			01
C1510-1512	US135100	C. CE. CHP	0.1uF 16V			チップセラコン			01
C1513-1514	US061220	C. CE. CHP	22pF 50V B			チップセラコン			01
C1515-1516	US135100	C. CE. CHP	0.1uF 16V			チップセラコン			01
C1517-1520	US062220	C. CE. CHP	220pF 50V B			チップセラコン			01
C1521	UR837100	C. EL	10uF 16V			ケミコン			01
C1522	US061470	C. CE. CHP	47pF 50V B			チップセラコン			01
C1523	UR838100	C. EL	100uF 16V			ケミコン			01

* New Parts * 新規部品

P.C.B. MAIN

Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
C1524	US061470	C. CE. CHP	47pF	50V B	チップセラコン	01
C1525	UR837100	C. EL	10uF	16V	ケミコン	01
C1526-1527	UR838100	C. EL	100uF	16V	ケミコン	01
C1528-1529	US062220	C. CE. CHP	220pF	50V B	チップセラコン	01
C1530	UR838100	C. EL	100uF	16V	ケミコン	01
C1531	UR837330	C. EL	33uF	16V	ケミコン	01
C1532-1533	UR838100	C. EL	100uF	16V	ケミコン	01
C1534-1535	US062220	C. CE. CHP	220pF	50V B	チップセラコン	01
C1536	UR838100	C. EL	100uF	16V	ケミコン	01
C1537	WJ605600	C. MYLAR	0.033uF	50V	マイラーコン	01
C1538	VR169000	C. MYLAR	0.33uF	50V	マイラーコン	01
C1539	WJ604800	C. MYLAR	8200pF	50V	マイラーコン	01
C1540	WJ605600	C. MYLAR	0.033uF	50V	マイラーコン	01
C1541	VR169000	C. MYLAR	0.33uF	50V	マイラーコン	01
C1542	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C1543	WJ604800	C. MYLAR	8200pF	50V	マイラーコン	01
C1545	US135100	C. CE. CHP	0.1uF	16V	チップセラコン	01
C1553-1554	UR267100	C. EL	10uF	50V	ケミコン	01
C1556	UR267100	C. EL	10uF	50V	ケミコン	01
C1558-1559	UR267470	C. EL	47uF	50V	ケミコン	01
C1568	VR169200	C. MYLAR	0.47uF	50V	マイラーコン	01
C1572	US062100	C. CE. CHP	100pF	50V B	チップセラコン	01
C1574	UR837100	C. EL	10uF	16V	ケミコン	01
C1575	US061470	C. CE. CHP	47pF	50V B	チップセラコン	01
C1576	UR267100	C. EL	10uF	50V	ケミコン	01
C1578	US061470	C. CE. CHP	47pF	50V B	チップセラコン	01
C1579	UR837100	C. EL	10uF	16V	ケミコン	01
C1583-1584	UR267470	C. EL	47uF	50V	ケミコン	01
C1589-1590	UR267100	C. EL	10uF	50V	ケミコン	01
C1600-1601	UR267100	C. EL	10uF	50V	ケミコン	01
C1608	US064100	C. CE. CHP	0.01uF	50V B	チップセラコン	01
C1609	UR049220	C. EL	2200uF	25V	ケミコン	01
D1000-1001	VD631600	D10DE	1SS133, 176		ダイオード	01
D1002	VU171900	D10DE. ZENR	UDZ5.1B 5.1V		ツェナーダイオード	01
D1003	WC398800	D10DE	KDS160-RTK		ダイオード	01
D1004-1007	VN008700	D10DE	1SS270A		ダイオード	01
D1008	WC398800	D10DE	KDS160-RTK		ダイオード	01
D1009-1016	VN008700	D10DE	1SS270A		ダイオード	01
D1017	WA653200	D10DE. BRG	TS6P03G 6A 200V		ダイオードブリッジ	04
D1018	WH487300	D10DE. BRG	RS203M 2.0A 200V		ダイオードブリッジ	02
D1019	VD631600	D10DE	1SS133, 176		ダイオード	01
D1503-1504	VG438400	D10DE. ZENR	MTZJ6.8C 6.8V		ツェナーダイオード	01
F1000	WV071700	FUSE	3.15A 250V		ヒューズ	01
IC100	X8190A00	IC	STK433-330-E		パワーIC	12
IC101-102	X7427A00	IC	STK433-130-E		アンプIC	04
IC103	XJ608A00	IC	NJM7812FA		IC	02
IC104	X4154A00	IC	KIA7912P1		電源IC	01
IC105	YA381A00	IC	LM19C1Z/LF THERMAL		電源IC	01
IC152	XZ509A00	IC	TC74VHC104FT INVER		ロジックIC	01
IC153	YA361A00	IC	R2A15220FP		IC	01
IC154	X7378A00	IC	NJM4565M (TE1)		アンプIC	01
PJ150	V5715300	JACK. PIN	2P OR/OR		ピンジャック	02
PJ151	V7046800	JACK. PIN	6P MSP-246V1-01N1		ピンジャック	04
PJ152	V7046700	JACK. PIN	4P MSP-244V1-01N1		ピンジャック	03
PJ159	V7189700	JACK. PIN	1P		ピンジャック	01
PJ160	WC612700	JACK. PIN	2P		ピンジャック	01
PN101-102	V8637500	PIN	L=50 #18		スタイルピン	01

* New Parts * 新規部品

P.C.B. MAIN and P.C.B. VIDEO

Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
△ Q1000	WC398400	TR			トランジスタ	01
△ Q1001-1002	VC614000	TR	2N5551C-AT		トランジスタ	02
△ Q1003	WC398400	TR	2S81274 Q, R, S		トランジスタ	01
△ Q1004-1005	WC397700	TR	2N5551C-AT		トランジスタ	01
△ Q1006-1012	WC398400	TR	2N5401C-AT		トランジスタ	01
△ Q1013	WC397700	TR	2N5551C-AT		トランジスタ	01
△ Q1014	IC181510	TR	2SC1815 Y		トランジスタ	01
△ Q1015	WC435000	TR, DGT	KRC102S-RTK		デュアルトランジスタ	01
△ Q1016	WC434900	TR, DGT	KRA104S-RTK		デュアルトランジスタ	01
△ Q1501-1502	VZ725900	TR	2SD1938F S, T		トランジスタ	01
△ Q1504	VZ725900	TR	2SD1938F S, T		トランジスタ	01
△ Q1507	VZ725900	TR	2SD1938F S, T		トランジスタ	01
△ Q1509	VZ725900	TR	2SD1938F S, T		トランジスタ	01
△ Q1520-1521	VZ725900	TR	2SD1938F S, T		トランジスタ	01
△ Q1524-1525	VZ725900	TR	2SD1938F S, T		トランジスタ	01
△ R1012-1014	HV753220	R, CAR, FP	2.2Ω 1/4W		不燃化カーボン抵抗	01
△ R1017	HV755560	R, CAR, FP	560Ω 1/4W		不燃化カーボン抵抗	01
△ R1029	HV754100	R, CAR, FP	10Ω 1/4W		不燃化カーボン抵抗	01
△ R1032	HV754100	R, CAR, FP	10Ω 1/4W		不燃化カーボン抵抗	01
△ R1046	WP839400	R, WW	0.22+0.22 3W		セメント抵抗	01
△ R1048-1049	WP839400	R, WW	0.22+0.22 3W		セメント抵抗	01
△ R1056	WP839400	R, WW	0.22+0.22 3W		セメント抵抗	01
△ R1060	WP839400	R, WW	0.22+0.22 3W		セメント抵抗	01
△ R1067-1068	WP839400	R, WW	0.22+0.22 3W		セメント抵抗	01
△ R1086	HV754100	R, CAR, FP	10Ω 1/4W		不燃化カーボン抵抗	01
△ R1089-1090	HV754100	R, CAR, FP	10Ω 1/4W		不燃化カーボン抵抗	01
△ R1092	HV754100	R, CAR, FP	10Ω 1/4W		不燃化カーボン抵抗	01
△ R1095	HV754100	R, CAR, FP	10Ω 1/4W		不燃化カーボン抵抗	01
△ R1098	HV754100	R, CAR, FP	10Ω 1/4W		不燃化カーボン抵抗	01
△ R1101	HV754100	R, CAR, FP	10Ω 1/4W		不燃化カーボン抵抗	01
△ R1103	WJ683200	R, MTL, FLM	4.7Ω 1W		金属被膜抵抗	01
△ R1107-1108	WJ683200	R, MTL, FLM	4.7Ω 1W		金属被膜抵抗	01
△ R1110-1111	WJ683200	R, MTL, FLM	4.7Ω 1W		金属被膜抵抗	01
△ R1113-1114	WJ683200	R, MTL, FLM	4.7Ω 1W		金属被膜抵抗	01
△ R1504	HV753100	R, CAR, FP	1Ω 1/4W		不燃化カーボン抵抗	01
△ R1664-1665	HV755100	R, CAR, FP	100Ω 1/4W		不燃化カーボン抵抗	01
△ R1666-1667	WJ684700	R, MTL, FLM	82Ω 1W		金属被膜抵抗	01
△ RY100	WEG48700	RELAY	DC DH24D2-0-Q		リレー 24V	06
△ ST100	WA789600	SCR, TERM	M3		スクリューターミナル	01
△ ST101	WA789700	SCR, TERM	D3.5		スクリューターミナル	01
△ SW101	WB493700	VOLT. SELECT	R8140246	R	電圧切替器	
△ SW101	WD073700	VOLT. SELECT	R8140254	L	電圧切替器	
△ U1500-1501	WN33200	CM, PHOTO, R	1P JSR1165		光ファイバー受信器	
	WE774200	SCR, BND, HD	3x10 MFZ2W3		バイナードBタイプトネジ	01
	WQ921600	P. C. B.	VIDEO	J	PCB VIDEO	
	WQ921700	P. C. B.	VIDEO	UC	PCB VIDEO	
	WQ921900	P. C. B.	VIDEO	R	PCB VIDEO	
	WQ922000	P. C. B.	VIDEO	T	PCB VIDEO	
	WQ922100	P. C. B.	VIDEO	K	PCB VIDEO	
	WQ922100	P. C. B.	VIDEO	A	PCB VIDEO	
	WQ922200	P. C. B.	VIDEO	BGEF	PCB VIDEO	
	WQ922300	P. C. B.	VIDEO	L	PCB VIDEO	
	WQ922400	P. C. B.	VIDEO	L	PCB VIDEO	
	VQ047700	CM, BS, PIN	22P	J	FFCコネクタ	01
	VQ961500	CM, BS, PIN	12P	J	ハウジング	01

* New Parts * 新規部品

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Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
C8305	VQ047000	CN. BS. PIN			FCCコネクタ-	01
C8321	VM859500	CN. BS. PIN			FCCコネクタ-	01
C8332	VQ961300	CN. BS. PIN			ハウジング	01
C8333	VK024700	CN. BS. PIN			ワイヤートラップ	01
C8342	VQ585500	CN. JUMPER			ジャンパーコネクタ-	02
C8343	VZ130900	CN. JUMPER			ジャンパーコネクタ-	01
C8344	VQ585700	CN. JUMPER			ジャンパーコネクタ-	03
C8345	VF728300	CN			コネクタ-	01
C8349	VQ047700	CN. BS. PIN			FCCコネクタ-	01
C8351-353	WD398400	CN. DIN	YKF45-3011	J	DINコネクタ	05
C8354	VQ047700	CN. BS. PIN		J	FCCコネクタ-	01
C8371	V6879900	CN. BS. PIN			ベースピン	01
C8372-373	WN103000	CLIP. FUSE	TP00351-31	RL	ヒューズクリップ	01
C8378	V6879900	CN. BS. PIN			ベースピン	01
C8379	VQ961000	CN. BS. PIN			ハウジング	02
C8381	VQ962800	CN. BS. PIN			ウエハー	02
C8391	VQ044100	CN. BS. PIN		BGEF	FCCコネクタ-	01
C3001	US062100	C. CE. CHP	50V B		チップセラコン	01
C3002-3004	US060800	C. CE. CHP	50V B		チップセラコン	01
C3005	US062100	C. CE. CHP	50V B		チップセラコン	01
C3006	UR837470	C. EL	16V		ケミコン	01
C3007-3008	US135100	C. CE. CHP	16V		チップセラコン	01
C3009	UR837470	C. EL	16V		ケミコン	01
C3011	US060300	C. CE. CHP	50V B		チップセラコン	01
C3012	UR837470	C. EL	16V		ケミコン	01
C3013-3014	US060300	C. CE. CHP	50V B		チップセラコン	01
C3015-3017	US135100	C. CE. CHP	16V		チップセラコン	01
C3018	UR837100	C. EL	16V		ケミコン	01
C3019	US135100	C. CE. CHP	16V		チップセラコン	01
C3020	UR837100	C. EL	16V		ケミコン	01
C3021-3025	US135100	C. CE. CHP	16V		チップセラコン	01
C3026	UR837100	C. EL	16V		ケミコン	01
C3027	WD758300	C. CE. CHP	10V		チップセラコン	01
C3029	WD758300	C. CE. CHP	10V		チップセラコン	01
C3031	WD758300	C. CE. CHP	10V		チップセラコン	01
C3033	UR837470	C. EL	16V		ケミコン	01
C3043-3044	US135100	C. CE. CHP	16V		チップセラコン	01
C3045	UR837470	C. EL	16V		ケミコン	01
C3047	US135100	C. CE. CHP	16V		チップセラコン	01
C3048	UR838220	C. EL	16V		チップセラコン	01
C3050	US135100	C. CE. CHP	16V		チップセラコン	01
C3051	UR838220	C. EL	16V		チップセラコン	01
C3052-3053	UR838100	C. EL	16V		ケミコン	01
C3054	US135100	C. CE. CHP	16V		チップセラコン	01
C3055	US061120	C. CE. CHP	50V B	JUCRK	チップセラコン	01
C3055	US060500	C. CE. CHP	50V B	TABGEFL	チップセラコン	01
C3056	US061180	C. CE. CHP	50V B	JUCRK	チップセラコン	01
C3056	US060700	C. CE. CHP	50V B	TABGEFL	チップセラコン	01
C3057	UR866100	C. EL	50V		ケミコン	01
C3058	US060600	C. CE. CHP	50V B	JUCRK	チップセラコン	01
C3058	US060400	C. CE. CHP	50V B	TABGEFL	チップセラコン	01
C3059	US061240	C. CE. CHP	50V B		チップセラコン	01
C3061	US135100	C. CE. CHP	16V		チップセラコン	01
C3062	US061240	C. CE. CHP	50V B		チップセラコン	01
C3063	US135100	C. CE. CHP	16V		チップセラコン	01
C3065	UR837470	C. EL	16V		ケミコン	01
C3067-3069	US135100	C. CE. CHP	16V		チップセラコン	01

* New Parts * 新規部品

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Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
C3072	US135100	C. CE. CHP			チップセラコン	01
C3073	UR838220	C. EL	0. 1uF		ケミコン	01
C3074	US061100	C. CE. CHP	220uF		チップセラコン	01
C3076	UR837100	C. EL	10pF	50V B	ケミコン	01
C3077	US135100	C. CE. CHP	10uF	16V	チップセラコン	01
C3079	US135100	C. CE. CHP	0. 1uF	16V	チップセラコン	01
C3080-3085	US135100	C. CE. CHP	0. 1uF	16V	チップセラコン	01
C3201	WD758300	C. CE. CHP	10uF	10V	チップセラコン	01
C3202	US061270	C. CE. CHP	27pF	50V B	チップセラコン	01
C3202	UR837100	C. EL	10uF	16V	ケミコン	01
C3203	US061270	C. CE. CHP	27pF	50V B	チップセラコン	01
C3204-3205	US135100	C. CE. CHP	0. 1uF	16V	チップセラコン	01
C3206	US062560	C. CE. CHP	560pF	50V B	チップセラコン	01
C3207-3208	US062330	C. CE. CHP	330pF	50V B	チップセラコン	01
C3209	US135100	C. CE. CHP	0. 1uF	16V	チップセラコン	01
C3211	UR837470	C. EL	47uF	16V	ケミコン	01
C3212-3214	UR837470	C. EL	47uF	16V	ケミコン	01
C3215	US062100	C. CE. CHP	100pF	50V B	チップセラコン	01
C3218	US062100	C. CE. CHP	100pF	50V B	チップセラコン	01
C3303-3305	WJ611400	C. MYLAR	0. 1uF	100V J	マイラーコン	01
C3306	UR868100	C. EL	100uF	50V	ケミコン	01
C3307	W6601900	C. EL	10000uF	16V	ケミコン	01
C3309	W6601900	C. EL	10000uF	16V	ケミコン	04
C3310	UR039470	C. EL	4700uF	16V	ケミコン	04
C3311	UR866100	C. EL	1uF	50V	ケミコン	03
C3312	UR837220	C. EL	22uF	16V	ケミコン	01
C3314	UR866100	C. EL	1uF	50V	ケミコン	01
C3319	UR866100	C. EL	1uF	50V	ケミコン	01
C3320-3321	UR837330	C. EL	33uF	16V	ケミコン	01
C3322	UR867100	C. EL	10uF	50V	ケミコン	01
C3323	UR878100	C. EL	100uF	63V	ケミコン	01
C3403-3409	WJ605000	C. MYLAR	0. 01uF	50V J	マイラーコン	01
C3410-3411	WJ604500	C. MYLAR	4700pF	50V	マイラーコン	01
C3412-3416	WJ605200	C. MYLAR	0. 015uF	50V	マイラーコン	01
C3501-3509	US064100	C. CE. CHP	0. 01uF	50V B	チップセラコン	01
C3510-3512	US060800	C. CE. CHP	8pF	50V B	チップセラコン	01
C3513-3514	UR837100	C. EL	10uF	16V	ケミコン	01
C3515-3520	US135100	C. CE. CHP	0. 1uF	16V	チップセラコン	01
C3701	W0852400	C. POL. MTL	0. 022uF	630V	メタライズドポリコン	01
C3702	WK005000	C. CE. SAFETY	0. 047uF	275V	規格認定コンデンサ	01
C3703	WR082000	C. EL	100uF	220V	ケミコン	01
C3703	WR082100	C. EL	100uF	400V	ケミコン	01
C3703	W0852500	C. EL	68uF	400V	ケミコン	01
C3704	WR182800	C. CE. CHP	2200pF	250V	チップセラコン	01
C3705	US065100	C. CE. CHP	0. 1uF	50V B	チップセラコン	01
C3706	W0939400	C. CE. SAFETY	0. 01uF	250V	規格認定コンデンサ	01
C3707	UR837470	C. EL	47uF	16V	ケミコン	01
C3708	UR867100	C. EL	10uF	50V	ケミコン	01
C3709	W0902200	C. CE. SAFETY	2200pF	250V	規格認定コン	01
C3710-3711	UR866100	C. EL	1uF	50V	ケミコン	01
C3712-3713	WH777900	C. EL	1000uF	35V	ケミコン	01
C3714	US046100	C. CE. CHP	1uF	25V	チップセラコン	01
C3715	US135100	C. CE. CHP	0. 1uF	16V	チップセラコン	01
C3716	WH771300	C. EL	100uF	10V	ケミコン	01
C3717	W0852400	C. POL. MTL	0. 022uF	630V	メタライズドポリコン	01
C3720-3721	W0902300	C. CE. SAFETY	1000pF	250V	規格認定コンデンサ	01
C3801	US064100	C. CE. CHP	0. 01uF	50V B	チップセラコン	01
C3802	V7887800	C. EL	1uF	50V	ケミコン	01

* New Parts * 新規部品

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Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
C3803	WJ335500	C. EL			ケミコン	01
C3804	WJ603700	C. MYLAR	2. 2uF 50V		マイラーコン	01
C3805	US064100	C. CE. CHP	1000pF 50V		チップセラコン	01
C3806-3807	WD758300	C. CE. CHP	0. 01uF 50V B		チップセラコン	01
C3901	US064100	C. CE. CHP	10uF 10V	BGEF	チップセラコン	01
C3902	US062120	C. CE. CHP	0. 01uF 50V B	BGEF	チップセラコン	01
C3903	US062220	C. CE. CHP	120pF 50V B	BGEF	チップセラコン	01
C3904	US135100	C. CE. CHP	220pF 50V B	BGEF	チップセラコン	01
C3905	UR837470	C. EL	0. 1uF 16V	BGEF	ケミコン	01
C3906	UR837100	C. EL	47uF 16V	BGEF	ケミコン	01
C3907	UR818470	C. EL	10uF 16V	BGEF	ケミコン	01
C3908	US064100	C. CE. CHP	470uF 6. 3V	BGEF	ケミコン	01
D3005-3007	VT332900	D10DE	0. 01uF 50V B	BGEF	チップセラコン	01
D3201	VG436100	D10DE. ZENR	1SS355	BGEF	ダイオード	01
D3202	VG439500	D10DE. ZENR	MTZJ3. 3B 3. 3V		ツェナーダイオード	01
D3302	WH487300	D10DE. BRG	MTZJ10B 10V		ツェナーダイオード	01
D3304	WH487300	D10DE. BRG	RS203M 2. 0A 200V		ダイオードブリッジ	02
D3305	VG444700	D10DE. ZENR	RS203M 2. 0A 200V		ダイオードブリッジ	02
D3307	VG440800	D10DE. ZENR	MTZ J 39D 39. 0V TP		ツェナーダイオード	01
D3310	VT332900	D10DE	MTZJ15B 15V		ツェナーダイオード	01
D3312	VV307700	D10DE	1SS355		ダイオード	01
D3320	VG437400	D10DE. ZENR	1N4002S		ダイオード	01
D3403-3407	VT332900	D10DE	MTZJ5. 1B 5. 1V		ツェナーダイオード	01
D3501-3506	VT332900	D10DE	1SS355	J	ダイオード	01
D3701	WH471700	D10DE. BRG	1SS355		ダイオード	01
D3703	WNG72400	D10DE. ZENR	DB105 1A 600V		ダイオードブリッジ	02
D3705	WQ647500	D10DE	P6KE200A 200V		ツェナーダイオード	03
D3706-3707	VD631600	D10DE	HT18G		ダイオード	01
D3708	VT332900	D10DE	1SS133. 176		ダイオード	01
D3709	WR007000	D10DE. SCH0	1SS355		ダイオード	01
D3710	VG442200	D10DE. ZENR	10A 40V SG10SC4M		シヨットキーダイオード	01
D3801-3805	VT332900	D10DE	MTZJ22C 22V		ツェナーダイオード	01
D3901-3902	VT332900	D10DE	1SS355		ダイオード	01
F3701	WB221200	FUSE	T6A 125V	BGEF	ダイオード	01
F3701	WB760600	FUSE	T6. 3A 250V	JUC	ダイオード	01
F3701	WV071700	FUSE	3. 15A 250V	R	ヒューズ	01
IC301-303	XY879A00	IC	TC74HC4053AF (EL)	TKABGEFL	ヒューズ	01
IC305	X6742A00	IC	LA73050-TLM-E		ロジック IC	03
IC306	X2904A00	IC	NJM2581M VIDEO AMP		アンプ IC	04
IC307	XY549A00	IC	TC74HC4051AFEL		アンプ IC	06
IC308	X7779A00	IC	LC709004A-TLM-E		ロジック IC	02
IC309	X7818A00	IC	LC74782JM-8A16-TLM		ロジック IC	04
IC310	X8875A00	IC	FHP3350IM14X		IC	07
IC321	X8235A00	IC	LC72725KM		アンプ IC	04
IC331	X8276A00	IC	NJM2396F05	BGEF	IC	04
IC334	X6143A00	IC	NJM2388F05 5. 0V		電源 IC	04
IC351-352	XS790A00	IC	TC74HC4052AF MPX	J	電源 IC	04
IC353	XY879A00	IC	TC74HC4053AF (EL)	J	ロジック IC	02
IC371	YA565A00	IC	TOP254PN SW		ロジック IC	03
IC372	WQ867100	PHOT. CPL	EL816 (M) (C)		電源 IC	
IC374	YA276A00	IC	TL431AC 2. 5-36V		フォトカブラ	
IC375	WQ867100	PHOT. CPL	EL816 (M) (C)		電源 IC	
IC391	XZ509A00	IC	TC74VHC04FT INVER		フォトカブラ	
JK391	V6931000	ON. DIN	IP YKF51-5506	BGEF	ロジック IC	01
PJ301	W6505100	JACK. PIN	6P	BGEF	S端子	02
PJ302	V7189800	JACK. PIN	1P		ピンジャック	04
PJ303	WH381400	JACK. PIN	3P JACK G. B. R		ピンジャック	01

* New Parts * 新規部品

P.C.B. VIDEO

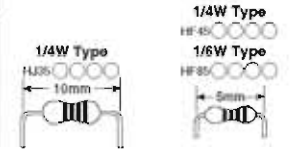
Carbon Resistors

Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ラック
PJ304	V7189800	JACK, PIN	1P		ピンジャック	01
PJ305-306	V7190000	JACK, PIN	2P		ピンジャック	
PN341-343	V9637500	PIN	L=70 #18		スタイルピン	
PN381	V9637500	PIN	L=70 #18		スタイルピン	
Q3001	VR936300	TR	2SA1576A 1106		トランジスタ	01
Q3002-3003	VV56400	TR	2SC2412K Q, R, S	BGEF	トランジスタ	01
Q3201	IC174020	TR	2SC1740S QRS		トランジスタ	01
Q3203	WJ173600	TR	2SC1815Y 1P		トランジスタ	01
Q3302	WJ173500	TR	2SA1015Y Y 1P		トランジスタ	
Q3303	WGS38600	TR	KTA1046-Y-U/P		トランジスタ	02
Q3304	WJ173500	TR	2SA1015Y Y 1P		トランジスタ	
Q3305	WJ173600	TR	2SC1815Y 1P		トランジスタ	01
Q3306	WCS97700	TR	2N5401C-AT		トランジスタ	
Q3405	VV655400	TR, DGT	DTIC114EKA		デジタルトランジスタ	01
Q3406	VV655000	TR, DGT	DTA114EKA		デジタルトランジスタ	01
Q3407	VV655400	TR, DGT	DTIC114EKA		デジタルトランジスタ	01
Q3408	VV655000	TR, DGT	DTA114EKA		デジタルトランジスタ	01
Q3409	VV655400	TR, DGT	DTIC114EKA		デジタルトランジスタ	01
Q3410	VV655000	TR, DGT	DTA114EKA		デジタルトランジスタ	01
Q3411	VV655400	TR, DGT	DTIC114EKA		デジタルトランジスタ	01
Q3412	VV655000	TR, DGT	DTA114EKA		デジタルトランジスタ	01
Q3413	VV655400	TR, DGT	DTIC114EKA		デジタルトランジスタ	01
Q3414	VV655000	TR, DGT	DTA114EKA		デジタルトランジスタ	01
Q3501	VV56400	TR	2SC2412K Q, R, S	J	トランジスタ	01
Q3801-3802	WJ173600	TR	2SC1815Y 1P		トランジスタ	01
Q3803	VV655700	TR, DGT	DTIC114EKA		デジタルトランジスタ	01
R3021	HV753100	R, CAR, FP	1Ω 1/4W		不燃化カーボン抵抗	01
R3025	HV753100	R, CAR, FP	1Ω 1/4W		不燃化カーボン抵抗	01
R3046-3049	HV753100	R, CAR, FP	1Ω 1/4W		不燃化カーボン抵抗	01
R3058-3061	HV753100	R, CAR, FP	1Ω 1/4W		不燃化カーボン抵抗	01
R3083	HV755470	R, CAR, FP	470Ω 1/4W		不燃化カーボン抵抗	01
R3208	HV755680	R, CAR, FP	680Ω 1/4W	BGEF	不燃化カーボン抵抗	01
R3210	HV754190	R, CAR, FP	18Ω 1/4W		不燃化カーボン抵抗	01
R3315-3316	HV756470	R, CAR, FP	4.7kΩ 1/4W		不燃化カーボン抵抗	01
R3325	HV756220	R, CAR, FP	2.2kΩ 1/4W		不燃化カーボン抵抗	01
R3326	HV753220	R, CAR, FP	2.2Ω 1/4W		不燃化カーボン抵抗	01
R3330	HV753100	R, CAR, FP	1Ω 1/4W		不燃化カーボン抵抗	01
R3403-3406	HV757100	R, CAR, FP	10kΩ 1/4W		不燃化カーボン抵抗	01
R3524-3525	HV753100	R, CAR, FP	1Ω 1/4W	J	不燃化カーボン抵抗	01
R3910	HV753220	R, CAR, FP	2.2Ω 1/4W	BGEF	不燃化カーボン抵抗	01
RY341-345	WJ122400	RELAY	981-2A-24DS-SF7		リレー 2.4V	04
RY371	W0804100	RELAY	DC DLS5D1-0(H) 0.25		リレー	
ST331-332	WA789700	SCR, TERM	D3.5		スクリューターミナル	01
ST371	WA789700	SCR, TERM	D3.5		スクリューターミナル	01
ST381-383	WA789700	SCR, TERM	D3.5		スクリューターミナル	01
T3701	YA507A00	TRANS, PWR			サブトランス	
TE341	WKS60800	TERM, SP	4P MST-204V1-01 NC	JUCRTA	スピーカターミナル	04
TE341	WKS60900	TERM, SP	4P MST-204V1-01 NC	KBGEFL	スピーカターミナル	
TE342	WB214000	TERM, SP	6P PUSH MSP-115V2		スピーカターミナル	03
TE343	WB213900	TERM, SP	MSP-113V2-03 PUSH		スピーカターミナル	03
KL301	VV948800	RSNR, CRY	14.31818MHz	JUCRK	水晶振動子	03
KL301	WV196100	RSNR, CRY	17.734475MHz	TABGEFL	水晶振動子	
KL321	V2731100	RSNR, CRY	4.332M HC-40/U	BGEF	水晶振動子	
	WE774200	SCR, BND, HD	3x10 WF2X2W3		バインドBタイトネジ	01

* New Parts * 新規部品

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ35 3100	HF45 3100	11 kΩ	HF45 7110	HF45 7110
1.8 Ω	HJ35 3180	*	12 kΩ	HJ35 7120	HF45 7120
2.2 Ω	HJ35 3220	HF45 3220	13 kΩ	HF45 7130	HF45 7130
3.3 Ω	HJ35 3330	HF45 3330	15 kΩ	HF45 7150	HF45 7150
4.7 Ω	HJ35 3470	HF45 3470	18 kΩ	HF45 7180	HF45 7180
5.6 Ω	HJ35 3560	HF45 3560	22 kΩ	HF45 7220	HF45 7220
10 Ω	HF45 4100	HF45 4100	24 kΩ	HF45 7240	HF45 7240
15 Ω	HJ35 4150	HF45 4150	27 kΩ	HF45 7270	HF45 7270
22 Ω	HF45 4220	HF45 4220	30 kΩ	HF45 7300	HF45 7300
27 Ω	HJ35 4270	HF45 4270	33 kΩ	HF45 7330	HF45 7330
33 Ω	HF45 4330	HF45 4330	36 kΩ	HF45 7360	HF45 7360
39 Ω	HJ35 4470	HF45 4390	39 kΩ	HF45 7390	HF45 7390
47 Ω	HF45 4470	HF45 4470	47 kΩ	HF45 7470	HF45 7470
56 Ω	HF45 4560	HF45 4560	51 kΩ	HF45 7510	HF45 7510
68 Ω	HF45 4680	HF45 4680	56 kΩ	HF45 7560	HF45 7560
75 Ω	HF45 4750	HF45 4750	62 kΩ	HF45 7620	HF45 7620
82 Ω	HF45 4820	HF45 4820	68 kΩ	HF45 7680	HF45 7680
91 Ω	HF45 4910	HF45 4910	82 kΩ	HF45 7820	HF45 7820
100 Ω	HF45 5100	HF45 5100	91 kΩ	HF45 7910	HF45 7910
110 Ω	HJ35 5110	HF45 5110	100 kΩ	HF45 8100	HF45 8100
120 Ω	HF45 5120	HF45 5120	110 kΩ	HF45 8110	HF45 8110
150 Ω	HF45 5150	HF45 5150	120 kΩ	HF45 8120	HF45 8120
160 Ω	HJ35 5160	*	150 kΩ	HF45 8150	HF45 8150
180 Ω	HF45 5180	HF45 5180	180 kΩ	HF45 8180	HF45 8180
200 Ω	HF45 5200	HF45 5200	220 kΩ	HJ35 8220	HF45 8220
220 Ω	HF45 5220	HF45 5220	270 kΩ	HF45 8270	HF45 8270
270 Ω	HF45 5270	HF45 5270	300 kΩ	HF45 8300	HF45 8300
330 Ω	HF45 5330	HF45 5330	330 kΩ	HF45 8330	HF45 8330
390 Ω	HF45 5390	HF45 5390	390 kΩ	HJ35 8390	HF45 8390
430 Ω	HF45 5430	HF45 5430	470 kΩ	HF45 8470	HF45 8470
470 Ω	HF45 5470	HF45 5470	560 kΩ	HJ35 8560	HF45 8560
510 Ω	HF45 5510	HF45 5510	680 kΩ	HJ35 8680	HF45 8680
560 Ω	HF45 5560	HF45 5560	820 kΩ	HJ35 8820	HF45 8820
680 Ω	HF45 5680	HF45 5680	1.0 MΩ	HF45 9100	HF45 9100
820 Ω	HF45 5820	HF45 5820	1.2 MΩ	HJ35 9120	*
910 Ω	HF45 5910	HF45 5910	1.5 MΩ	HJ35 9150	HF45 9150
1.0 kΩ	HF45 6100	HF45 6100	1.8 MΩ	HJ35 9180	HF45 9180
1.2 kΩ	HF45 6120	HF45 6120	2.2 MΩ	HJ35 9220	HF45 9220
1.5 kΩ	HF45 6150	HF45 6150	3.3 MΩ	HJ35 9330	HF45 9330
1.8 kΩ	HF45 6180	HF45 6180	3.9 MΩ	HJ35 9390	*
2.0 kΩ	HJ35 6200	HF45 6200	4.7 MΩ	HJ35 9470	HF45 9470
2.2 kΩ	HF45 6220	HF45 6220			
2.4 kΩ	HJ35 6240	HF45 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	HJ35 6360	HF45 6360			
3.9 kΩ	HF45 6390	HF45 6390			
4.7 kΩ	HF45 6470	HF45 6470			
5.1 kΩ	HF45 6510	HF45 6510			
5.6 kΩ	HF45 6560	HF45 6560			
6.8 kΩ	HF45 6680	HF45 6680			
8.2 kΩ	HF45 6820	HF45 6820			
9.1 kΩ	HF45 6910	HF45 6910			
10 kΩ	HF45 7100	HF45 7100			

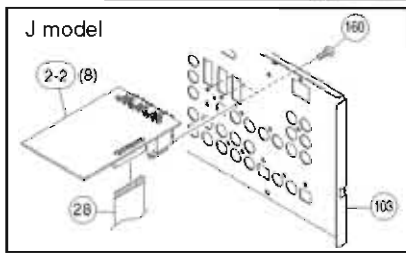
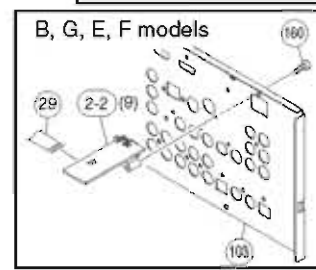
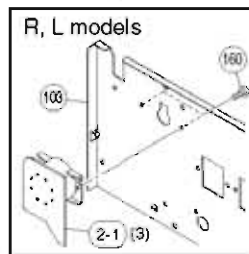
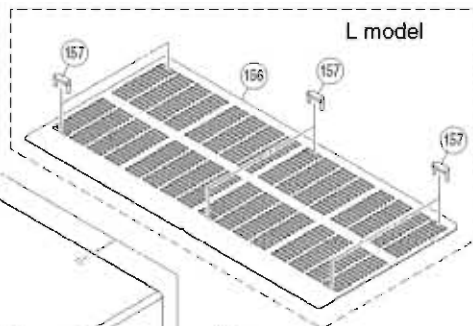
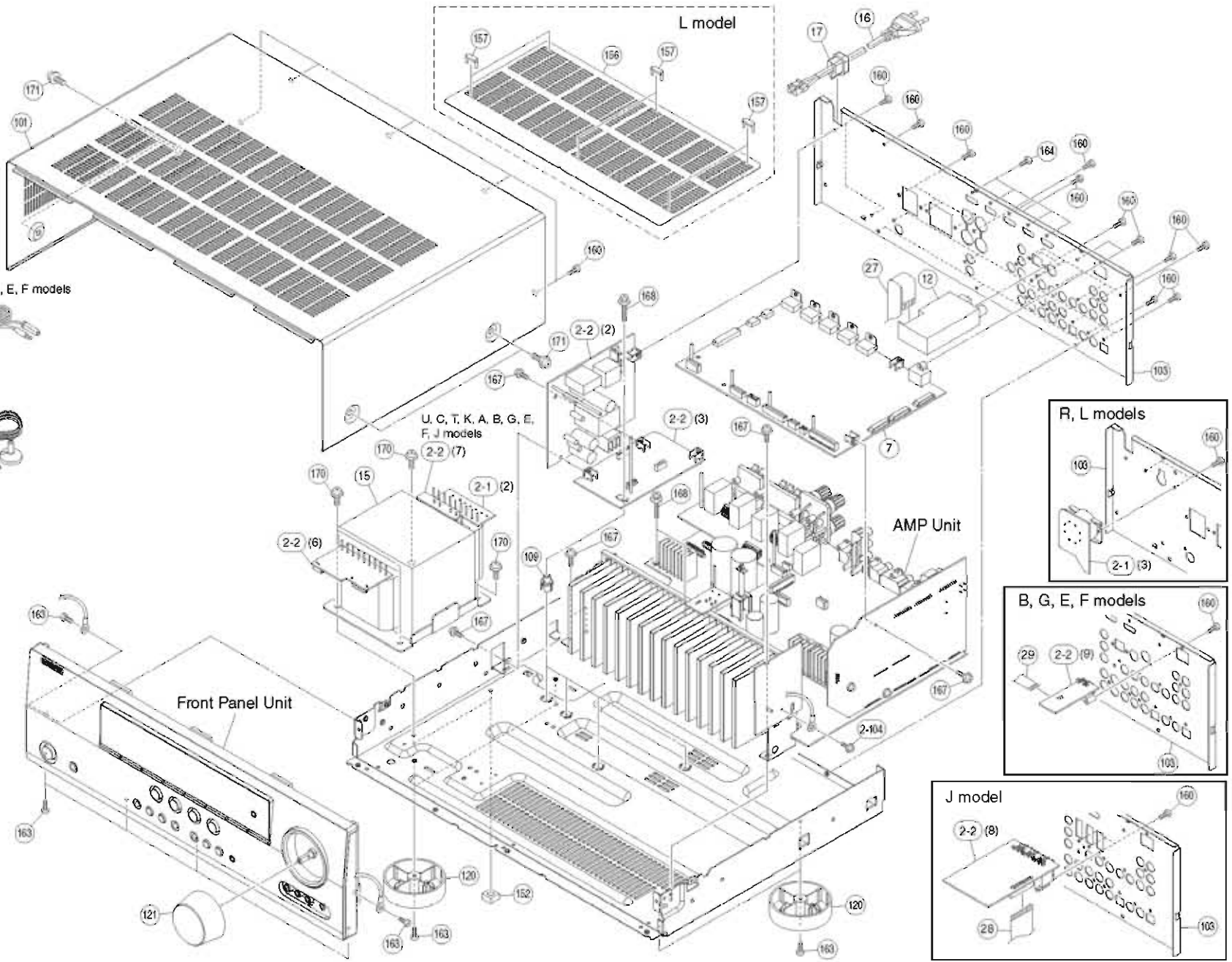
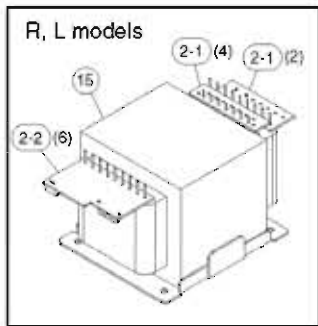
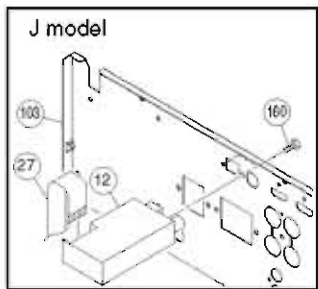
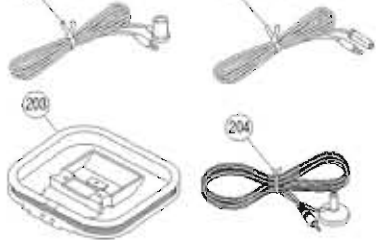
* Not available



• OVERALL ASS'Y



200 U, C, R, T, L, J models 202 K, A, B, G, E, F models



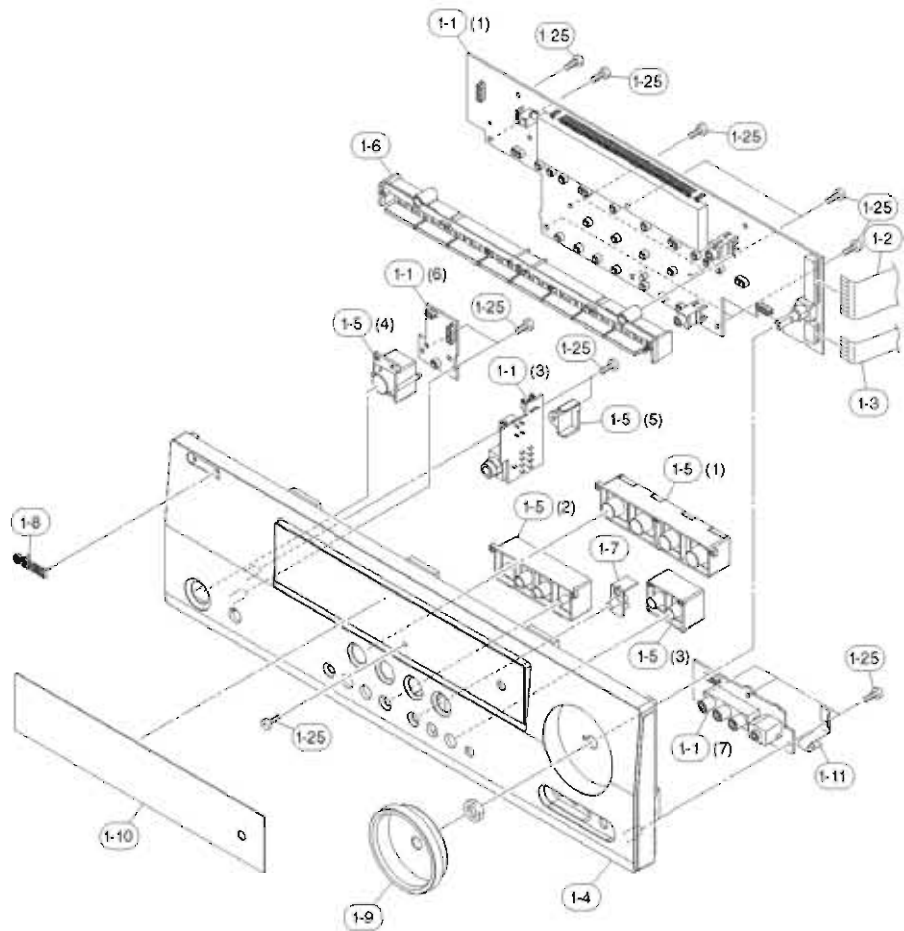
Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
* 2-1	W019600	P. C. B. ASS'Y		JUCIKABEEF	PCB MAIN	
* 2-1	W019700	P. C. B. ASS'Y		R	PCB MAIN	
* 2-1	W019800	P. C. B. ASS'Y		L	PCB MAIN	
* 2-2	W021600	P. C. B. ASS'Y		J	PCB VIDEO	
* 2-2	W021700	P. C. B. ASS'Y		UC	PCB VIDEO	
* 2-2	W021900	P. C. B. ASS'Y		R	PCB VIDEO	
* 2-2	W022000	P. C. B. ASS'Y		T	PCB VIDEO	
* 2-2	W022100	P. C. B. ASS'Y		K	PCB VIDEO	
* 2-2	W022200	P. C. B. ASS'Y		A	PCB VIDEO	
* 2-2	W022300	P. C. B. ASS'Y		BGEF	PCB VIDEO	
* 2-2	W022400	P. C. B. ASS'Y		L	PCB VIDEO	
2-104	W002600	PW HEAD B-TIGHT SCREW	3x3	WFZK2K3	PWヘッドBタイトネジ	01
* 7	W025300	P. C. B. ASS'Y	V565	JUCRTKAL	PCB DIGITAL	
* 7	W025500	P. C. B. ASS'Y	6250	UCK	PCB DIGITAL	
* 7	W025400	P. C. B. ASS'Y	V565	BGEF	PCB DIGITAL	
* 7	W0327800	P. C. B. ASS'Y	6250	F	PCB DIGITAL	
* 12	W0756500	AM/FM TUNER	FAEH06-J	J	AM/FMチューナー	
* 12	W0756600	AM/FM TUNER	FAEH06-A	UCRTL	AM/FMチューナー	
* 12	W0756700	AM/FM TUNER	FAEH06-E	KABGEF	AM/FMチューナー	
△ * 15	YA518400	POWER TRANSFORMER		J	電源トランス	
△ * 15	YA520400	POWER TRANSFORMER		UC	電源トランス	
△ * 15	YA521400	POWER TRANSFORMER		RL	電源トランス	
△ * 15	YA522400	POWER TRANSFORMER		TK	電源トランス	
△ * 15	YA523400	POWER TRANSFORMER		A	電源トランス	
△ * 15	YA524400	POWER TRANSFORMER		BGEF	電源トランス	
△ 16	W0211800	POWER CABLE	1.8m	J	電源コード	07
△ 16	W0120500	POWER CABLE	2m	UC	電源コード	
△ 16	W092700	POWER CABLE	2m	R	電源コード	
△ 16	W0120600	POWER CABLE	2m	T	電源コード	
△ 16	W0753000	POWER CABLE	2m	K	電源コード	
△ 16	W0743700	POWER CABLE	2m	A	電源コード	
△ 16	W0212200	POWER CABLE	2m	B	電源コード	
△ 16	W0212300	POWER CABLE	2m	BGEFL	電源コード	
17	V2438700	CORD STOPPER			コードストッパー	02
* 27	W0385200	FLEXIBLE FLAT CABLE	11P 200mm P=1.25	J	カード電線	
* 27	W0384700	FLEXIBLE FLAT CABLE	11P 100mm P=1.25	UCRTKABGEFL	カード電線	
* 28	W0396800	FLEXIBLE FLAT CABLE	22P 100mm P=1.25	J	カード電線	
* 29	W0378500	FLEXIBLE FLAT CABLE	5P 100mm P=1.25	BGEF	カード電線	
* 101	W0665900	TOP COVER		GD	トップカバー	
* 101	W0665800	TOP COVER		BL	トップカバー	
* 101	W0666000	TOP COVER		TI	トップカバー	
* 103	W0684600	REAR PANEL		J	リアパネル	
* 103	W0683700	REAR PANEL	V565	U	リアパネル	
* 103	W0684700	REAR PANEL	6250	V	リアパネル	
* 103	W0683800	REAR PANEL	V565	C	リアパネル	
* 103	W0684800	REAR PANEL	6250	C	リアパネル	
* 103	W0683900	REAR PANEL		R	リアパネル	
* 103	W0684000	REAR PANEL		T	リアパネル	
* 103	W0684100	REAR PANEL	V565	K	リアパネル	
* 103	W0685000	REAR PANEL	6250	K	リアパネル	
* 103	W0684200	REAR PANEL		A	リアパネル	
* 103	W0684300	REAR PANEL	V565	BGEF	リアパネル	
* 103	W0685200	REAR PANEL	6250	F	リアパネル	

* New Parts * 新規部品

Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
* 103	W0684500	REAR PANEL		L	リアパネル	
109	W042000	SUPPORT HB			サポート HB	01
120	W0790000	LEG	D60/H21 8D	GD	レッグ	
120	W0790500	LEG	D60/H21 HS	GD, TI	レッグ	
* 121	W0822800	KNOB D50		GD	ノブ D50	
* 121	W0822700	KNOB D50		BL	ノブ D50	
* 121	W0823000	KNOB D50		TI	ノブ D50	
152	W0126800	DAMPER	SCREW MASK		ダンパー	
* 166	W0306100	SHEET TOP		L	シートトップ	
157	W0323800	RIVET TOP		L	リベットトップ	
160	W0774100	BIND HEAD BONDING S-T. SCREW	3x8	WFZK2B3	ボンディングBタイトネジ	01
163	W0774300	BIND HEAD B-TIGHT SCREW	3x8	WFZK2K3	バインドBタイトネジ	01
164	W077900	BIND HEAD S-TIGHT SCREW	3x6	WFZK2K3	バインドSタイトネジ	01
167	W002600	PW HEAD B-TIGHT SCREW	3x8	WFZK2K3	PWヘッドBタイトネジ	01
168	W0774600	SCREW IC	3x18	WFZK2K3	スクリュー IC	01
170	W0774700	BIND HEAD S-TIGHT SCREW	4x10	WFZK2K3	バインドSタイトネジ	01
171	V0069600	PW HEAD S-TIGHT SCREW	4x8-10	WFN133	PWヘッドSタイトネジ	01
171	V013200	PW HEAD S-TIGHT SCREW	4x8-10	WFN13BL	PWヘッドSタイトネジ	01
		ACCESSORIES			付属品	
* 200	W0002700	REMOTE CONTROL	RAV293		リモコン	
200-1	AAX82380	BATTERY COVER		CG-2209	電池蓋	03
202	W0212500	INDOOR FM ANTENNA	1.4m 1pc		FM専用アンテナ	03
202	W0212400	INDOOR FM ANTENNA	1.4m 1pc		FM専用アンテナ	
203	W0212600	AN LOOP ANTENNA	1.0m 1pc		AMループアンテナ	04
204	W0649600	OPTIMIZER MICROPHONE	6.0m 1pc	EW6022L-HN1700	オプティマイザーマイク	08
		BATTERY	RO3, AAA, UM-4 2pcs		単4乾電池	
		SERVICE TOOLS			サービス用部品	
W0492800	RS232C CONVERSION ADAPTOR	3.3Vtype with FFD9P			RS232C変換アダプター	13
W0125400	FLEXIBLE FLAT CABLE	25P 400mm P=1.25			カード電線	
W0109400	FLEXIBLE FLAT CABLE	9P 400mm P=1.25			カード電線	

* New Parts * 新規部品

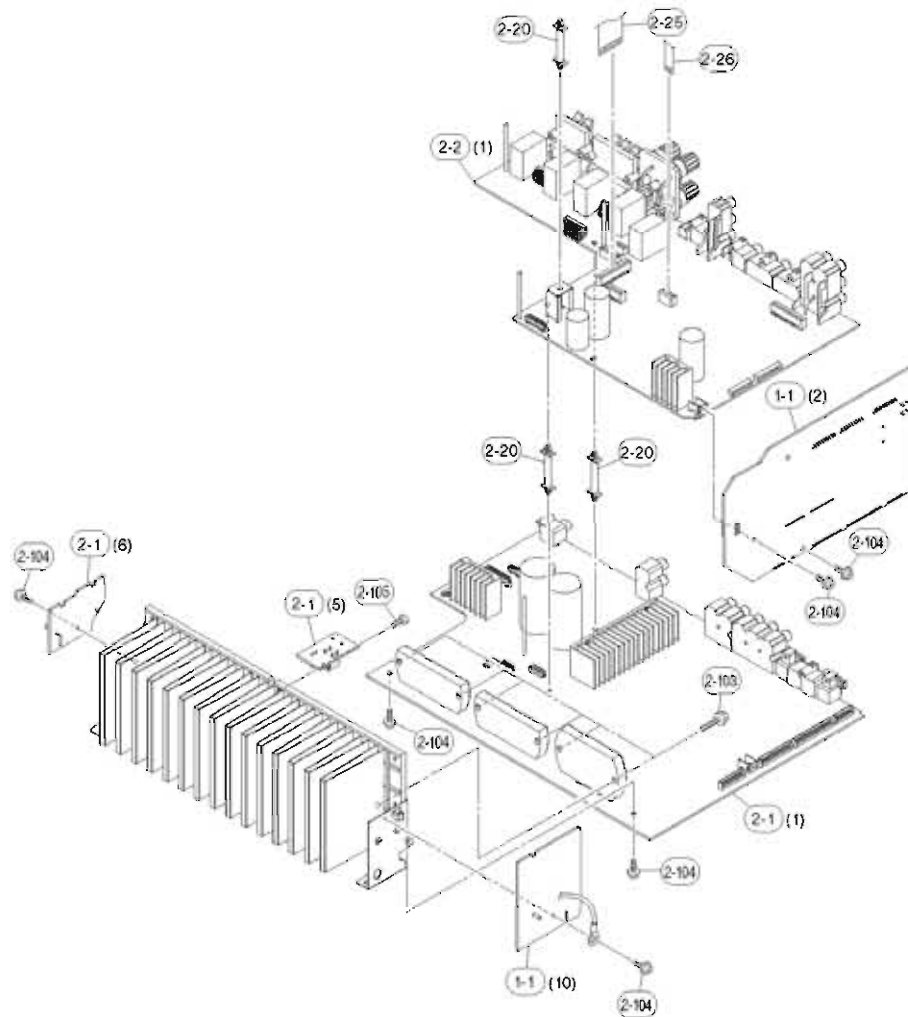
• FRONT PANEL UNIT



Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
* 1-1	WR023800	P.C.B. ASS'Y	OPERATION		PCB OPERATION	
* 1-2	WR400600	FLEXIBLE FLAT CABLE	25P 200mm P=1.25		カード電線	
* 1-3	WR082800	FLEXIBLE FLAT CABLE	9P 160mm P=1.25		カード電線	
* 1-4	WR0881A0	FRONT PANEL ASS'Y		V565BD	J フロントパネルASSY	
* 1-4	WR0880A0	FRONT PANEL ASS'Y		V565GD	RT フロントパネルASSY	
* 1-4	WR0869A0	FRONT PANEL ASS'Y		V565BL	J フロントパネルASSY	
* 1-4	WR0868A0	FRONT PANEL ASS'Y		V565BL	UCRKBSEFL フロントパネルASSY	
* 1-4	WR0900A0	FRONT PANEL ASS'Y		6250BL	フロントパネルASSY	
* 1-4	WR0884A0	FRONT PANEL ASS'Y		V565TI	フロントパネルASSY	
* 1-5	WR031600	BUTTON CASE		ED	JR ボタンケース	
* 1-5	WS073500	BUTTON CASE		ED	T ボタンケース	
* 1-5	WR031500	BUTTON CASE		BL	J, UCRKBSEFL ボタンケース	
* 1-5	WS073400	BUTTON CASE		BL	T ボタンケース	
* 1-5	WR031800	BUTTON CASE		TI	ボタンケース	
* 1-6	WR027800	BUTTON TUNER			ボタンチューナー	
* 1-7	WR032800	BUTTON PD		ED	ボタンPD	
* 1-7	WR032700	BUTTON PD		BL	ボタンPD	
* 1-7	WR033000	BUTTON PD		TI	ボタンPD	
* 1-8	WJ 93400	EMBLEM GD		ED	エンブレムGD	02
* 1-8	WJ 93300	EMBLEM BL		BL, TI	エンブレムBL	02
* 1-9	WR022400	ESCUTCHEON VOL		ED	エスカッションVOL	
* 1-9	WR022300	ESCUTCHEON VOL		BL	エスカッションVOL	
* 1-9	WR022600	ESCUTCHEON VOL		TI	エスカッションVOL	
* 1-10	WR033300	SHEET WINDOW			シートウインドウ	
* 1-11	WR248300	EARTH PLATE			アースプレート	
* 1-25	WR74800	BIND HEAD P-TIGHT SCREW	3x8 WF2K2W3		バインドPタイトネジ	01

* New Parts * 新規部品

• AMP UNIT



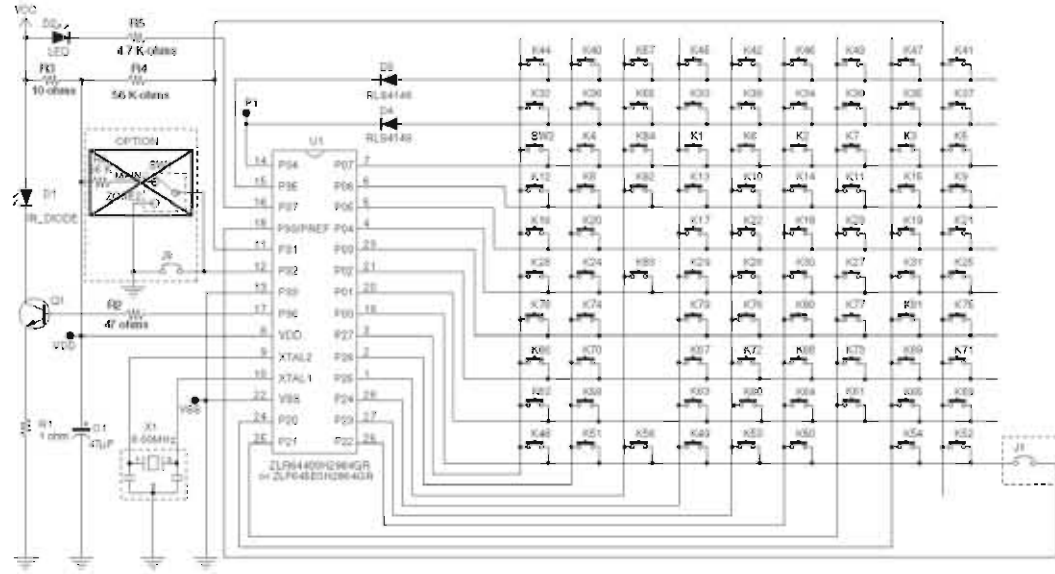
Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
* 1-1	W0923800	P. C. B. ASS'Y	OPERATION		PCB OPERATION	
* 2-1	W0919600	P. C. B. ASS'Y	MAIN		PCB MAIN	
* 2-1	W0919700	P. C. B. ASS'Y	MAIN		PCB MAIN	
* 2-1	W0919800	P. C. B. ASS'Y	MAIN		PCB MAIN	
* 2-2	W0921600	P. C. B. ASS'Y	VIDEO		PCB VIDEO	
* 2-2	W0921700	P. C. B. ASS'Y	VIDEO		PCB VIDEO	
* 2-2	W0921800	P. C. B. ASS'Y	VIDEO		PCB VIDEO	
* 2-2	W0922000	P. C. B. ASS'Y	VIDEO		PCB VIDEO	
* 2-2	W0922100	P. C. B. ASS'Y	VIDEO		PCB VIDEO	
* 2-2	W0922200	P. C. B. ASS'Y	VIDEO		PCB VIDEO	
* 2-2	W0922300	P. C. B. ASS'Y	VIDEO		PCB VIDEO	
* 2-2	W0922400	P. C. B. ASS'Y	VIDEO		PCB VIDEO	
* 2-20	W5000800	SPACER SUPPORT	LCA4-29H		スペーサーサポート	
* 2-25	WR397000	FLEXIBLE FLAT CABLE	22P 140mm P=1.25		カード電線	
* 2-26	WR379700	FLEXIBLE FLAT CABLE	6P 200mm P=1.25		カード電線	
2-103	WE774600	SCREW 1C	3x18 WFNZWD		スクリュー 1C	01
2-104	WF002600	PW HEAD B-TIGHT SCREW	3x8 WFNZWD		PWヘッドBタイトネジ	01
2-105	WE774300	BIND HEAD B-TIGHT SCREW	3x8 WFNZWD		バインドBタイトネジ	01

* New Parts * 新規部品

■ REMOTE CONTROL

- RAV293: U, C, R, T, K, A, B, G, E, F, L, J models

SCHEMATIC DIAGRAM

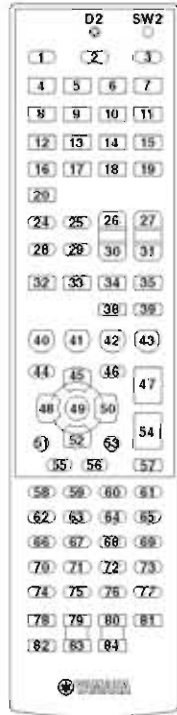


PANEL

RAV293
U, C, R, T, K, A, B, G, E, F, L, J models



KEY NO. LAYOUT



KEY CODE

GROUP	PRE SET	Key No.	FUNCTION	COM	ID1	ID2	
					MAIN	MAIN	
POWER	-	D2	TRANSMIT	-	-	-	
	-	SW2	CODE SET	-	-	-	
	-	K2	SLEEP	O	7A-39	7A-39CE	
INPUT 1	-	K3	POWER	O	7E-2A	7E-2AD4	
	O	K4	HDMI-1	O	7A-4738	7A-4739	
	O	K5	HDMI-2	O	7A-4A35	7A-4A34	
	O	K6	HDMI-3	O	7A-4D32	7A-4D33	
	O	K7	HDMI-4	O	7A-502F	7A-502E	
	O	K8	AV-1	O	7A-532C	7A-532D	
	O	K9	AV-2	O	7A-5629	7A-5628	
	O	K10	AV-3	O	7A-5926	7A-5927	
	O	K11	AV-4	O	7A-5C23	7A-5C22	
	O	K12	AV-5	O	7A-5F20	7A-5F21	
	O	K13	AV-6	O	7A-621D	7A-621C	
	O	K14	AUDIO-1	O	7A-651A	7A-651B	
	O	K15	AUDIO-2	O	7A-6817	7A-6816	
	O	K16	V-AUX	O	7A-65	7A-65AB * enter into V-AUX MODE	
	O	K17	[A]	O	7A-14	7A-14EA	
	INPUT 2	-	K18	[B]	O	7F01-3F	7F01-3FC1
		-	K19	DOCK	O	7F01-4A	7F01-4AB4 * enter into DOCK MODE
-		K20	TUNER	O	7A-16	7A-16EB * enter into TUNER MODE	
RADIO	-	K24	CATEGORY (-) FM	O	7F01-5827	7F01-5826	
	-	K25	CATEGORY (+) AM	O	7F01-552A	7F01-552B	
	-	K26	PRESET (+)	O	7F01-5624	7F01-5625	
	-	K27	TUNING CH (+)	O	7F01-611E	7F01-611F	
	-	K28	INFO	O	7A-2758	7A-2759	
	-	K29	MEMORY	O	7F01-6718	7F01-6719	
	-	K30	PRESET (-)	O	7F01-5E21	7F01-5E20	
	-	K31	TUNING CH (-)	O	7F01-641B	7F01-641A	
DSP	-	K32	MOVIE	O	7A-88	7A-8876	
	-	K33	MUSIC	O	7A-89	7A-8877	
	-	K34	STEREO ENHANCER	O	7A-94	7A-946A	
	-	K35	SURF DECODE	O	7A-8D	7A-8D73	
	-	K38	STRAIGHT	O	7A-56	7A-66A8	
	-	K39	PURE DIRECT	O	7A-DD	7A-DD23	
SCENE	-	K40	DD/DVD	O	7A-007F	7A-007E	
	-	K41	TV	O	7A-037C	7A-037D	
	-	K42	CD	O	7A-0679	7A-0678	
	-	K43	RADIO & GAME	O	7A-0976	7A-0977	
MENU	-	K44	SETUP	O	7A-84	7A-847A	
	-	K46	SUBMENU	O	7A-6B14	7A-6B15	

GROUP	PRE SET	Key No.	FUNCTION	COM	ID1	ID2
					MAIN	MAIN
CURSOR	-	K45	UP	-	7A-0D	7A-0D63
	-	K48	LEFT	-	7A-0F	7A-0F61
	-	K49	ENTER	-	7A-DE	7A-DE20
	-	K50	RIGHT	-	7A-9E	7A-9E60
	-	K51	RETURN	-	7A-AA	7A-AA54
	-	K52	DOWN	-	7A-9C	7A-9C62
VOLUME	-	K53	DISPLAY	-	7F01-60	7F01-606E
	-	K47	VOLUME (+)	O	7A-1A	7A-1AE4
	-	K54	VOLUME (-)	O	7A-1B	7A-1BE5
SOURCE	-	K57	MUTE	O	7A-1C	7A-1CE2
	-	K1	POWER (SOURCE)	-	-	-
	-	K55	TOP MENU	-	-	-
	-	K56	MENU	-	-	-
	-	K58	REC	-	-	-
	-	K59	PLAY	-	-	-
	-	K60	STOP	-	-	-
	-	K61	PAUSE	-	-	-
	-	K62	REW	-	-	-
	-	K63	FF	-	-	-
10 key	-	K64	SKIP (-)	-	-	-
	-	K65	SKIP (+)	-	-	-
	-	K66	1	-	-	-
	-	K67	2	-	-	-
	-	K68	3	-	-	-
	-	K69	4	-	-	-
	-	K70	5	-	-	-
	-	K71	6	-	-	-
	-	K72	7	-	-	-
	-	K73	8	-	-	-
TV	-	K74	9	-	-	-
	-	K75	0	-	-	-
	-	K76	+10	-	-	-
	-	K77	ENT	-	-	-
	-	K78	TV INPUT	-	-	-
	-	K79	TV VOL (+)	-	-	-
	-	K80	TV CH (+)	-	-	-
	-	K81	TV POWER	-	-	-
	-	K82	TV MUTE	-	-	-
	-	K83	TV VOL (-)	-	-	-
-	K84	TV CH (-)	-	-	-	

Advanced setup

In the advanced setup, you can set basic operations of this unit, such as on and off of a bi-amp connection, or initialize user settings. Perform the following steps to change settings.

- 1 **Set this unit to the standby mode.**
- 2 **Press **⏻**STANDBY/ON while pressing and holding **⏻**STRAIGHT on the front panel.**
The advanced setup menu appears on the front panel display.

ADVANCED SETUP

- 3 **Press **⏻**PROGRAM </>/▷ repeatedly to select the parameter you want to change.**

The default setting are marked with “*”.



- Set values are placed in XXX of the following parameters on an actual display screen.

SP IMP. - XXXX

Choices: 60MIN/80MIN*

Selects output impedance of this unit according to connected speakers.

REMOTE ID - XXXX

Choices: ID1*/ID2

Sets a remote control ID. When using multiple Yamaha AV receivers, you can operate them with a single remote control by setting the receiver IDs to the same setting.

BI AMP - XXXX

Choices: ON/OFF*

Switches on and off of bi-amp connection of main speakers.

MON. CHK - XXXX

Choices: YES*/SKIP

Adds upscaling limitation on output signals to a video monitor connected to this unit via the HDMI OUT jack.

INIT - XXXXXXXXXX

Choices: DSP PARAM/VIDEO/ALL/CANCEL

Initializes various settings stored in this unit. You can select an initialization method from the following.

DSP PARAM: All parameters of sound field programs

VIDEO: Video conversion settings (resolution/aspect) in the setup menu and the OSD display position

ALL: Reset this unit to initial factory settings

CANCEL: Cancellation of initialization

- 4 **Press **⏻**STRAIGHT a few times to select the value you want to change.**

The value selected here becomes effective when this unit is turned on the next time. You can change multiple settings by repeating steps 3 and 4.

- 5 **Press **⏻**STANDBY/ON, turns off this system, and press **⏻**STANDBY/ON again.**
The value set in step 3 becomes effective, and this unit turns on. When you select initialization in step 3, the initialization is performed.

Setting a remote control ID

Two IDs are provided for the remote control of this unit. If another Yamaha amplifier is in the same room, setting a different remote control ID to this unit prevents unwanted operation of the other amplifier.

ID1 is set for both remote control and amplifier by default. When you change the remote control ID, display “Advance Setup” (see the previous section) and change the ID for the amplifier too.

- 1 **Press **⏻**CODE SET on the remote control using a pointed object such as the tip of a ballpoint pen.**
⏻TRANSMIT blinks twice.
- 2 **Press **⏻**SETUP on the remote control.**
- 3 **Enter the desired remote control ID code.**

To switch to ID1:

Enter “5019” using **⏻**Numeric keys.

To switch to ID2:

Enter “5020” using **⏻**Numeric keys.

Once the remote control code is registered,

⏻TRANSMIT blinks twice.

If it fails, **⏻**TRANSMIT blinks six times. Repeat from step 1.



- Initializing the remote control code returns it to ID1.

ADVANCED OPERATION

English

本機の基本設定 / 初期化を行う (アドバンスドセットアップメニュー)

アドバンスドセットアップメニューでは、バイアン
プ接続のオン/オフといった本機の基本設定や、ユー
ザー設定の初期化を行うことができます。次の操作
で目的の操作を行ってください。

- 1 本機の電源をスタンバイに切り替えます。
- 2 フロントパネルの①STRAIGHTを押しながら、④STANDBY/ONを押します。
フロントパネルディスプレイにアドバンスド
セットアップメニューが表示されます。

ADVANCED SETUP

- 3 ④PROGRAM ◀/▶ を繰り返し押して、次
の中から設定したい項目を選択します。
「J」は初期設定を表します。

※ 美観のディスプレイ表示は、XXXの部分に設定値が入ります。

REMOTE ID - XXXX

選択項目： ID1* / ID2

リモコンの ID を設定します。ヤマハ製 AV レ
シーバーを複数使用する場合、各シーバーの
ID を同じ設定にすると、1つのリモコンですべ
てのレシーバーを操作できます。ID を分けた場
合は、それぞれのリモコンで、レシーバーごと
に操作が行えます。

BI AMP - XXXX

選択項目： ON / OFF*

メインスピーカーをバイアンプ接続で使用す
るか動作を切り替えます。

MON. CHK - XXXX

選択項目： YES* / SKIP

HDMI OUT 端子に接続したモニターへの出力
信号に、解像度変更 (アプスケーリング) の
制限をかけます。

INIT - XXXXXXXXXXXX

選択項目： DSP PARAM / VIDEO / ALL / CANCEL

本機に記憶された各種設定を初期化します。初
期化方法は、次の中から選択できます。

DSP PARAM : 音場プログラムの設定
VIDEO : セットアップメニューで行っ
たビデオコンバージョン設定
(解像度 / アスペクト比) およ
び OSD の表示位置

ALL : 本機を工場出荷時の状態に戻
します。

CANCEL : 初期化のキャンセル

- 4 ①STRAIGHT を何度か押して、目的の設定
値を選びます。

ここで選択した内容は、次に電源をオンにした
ときに実行されます。手順3と4を繰り返し、
複数の項目を設定することも可能です。

- 5 ④STANDBY/ON を押して電源を切り、も
う一度④STANDBY/ON を押します。
手順4で行なった設定が反映され、本機の電源
がオンになります。手順3で初期化を選択した
場合は初期化が実行されます。

リモコン ID を設定する

本機のリモコンは、2つのID (リモコンID) からい
ずれか1つを選ぶことができます。本機を設置して
いる部屋で別のヤマハ製アンプをお使いの場合、本
機のリモコンIDを切り替えることで、もう1台のア
ンプが動作するのを防止できます。

工場出荷時には、リモコン側、アンプ側ともにID1
に設定されています。

本機のリモコンIDを切り替えた場合、「Advance
Setup」(前項目参照) を表示して必ずアンプ側の
IDも切り替えてください。

- 1 ボールペンなどの先の細いもので、リモコン
の④CODE SET を押す。
④TRANSMIT が2回点滅します。

- 2 リモコンの④SETUP を押す。

- 3 希望するリモコンIDコードを入力する。

リモコンID1に切り替える場合：

④数字キーを押して「5019」と入力します。

リモコンID2に切り替える場合：

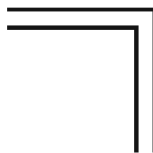
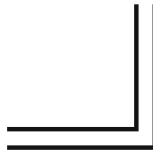
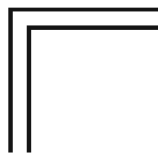
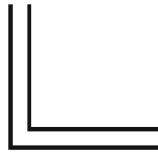
④数字キーを押して「5020」と入力します。

登録が完了すると、コード入力後にリモコンの
④TRANSMIT が2回点滅します。

リモコンの④TRANSMIT が6回点滅した場
合は、リモコンコードの入力に失敗したことを
表します。もう一度手順1からやり直してくだ
さい。

※ リモコンコードを初期化すると、リモコンID1に戻ります。

MEMO



**RX-V565/HTR-6250/
AX-V565**

