

SERVICE MANUAL

Ver. 2

MODEL DRA-CX3

Please refer to the
MODIFICATION NOTICE.

AM-FM STEREO RECEIVER

注 意

サービスをおこなう前に、このサービスマニュアルを必ずお読みください。本機は、火災、感電、けがなどに対する安全性を確保するために、さまざまな配慮をおこなっており、また法的には「電気用品安全法」にもとづき、所定の許可を得て製造されております。従ってサービスをおこなう際は、これらの安全性が維持されるよう、このサービスマニュアルに記載されている注意事項を必ずお守りください。

- For purposes of improvement, specifications and design are subject to change without notice.

- 本機の仕様は性能改良のため、予告なく変更することがあります。
- 補修用性能部品の保有期間は、製造打切後 8年です。

- Please use this service manual with referring to the operating instructions without fail.

- 修理の際は、必ず取扱説明書を参照の上、作業を行ってください。

- Some illustrations using in this service manual are slightly different from the actual set.

- 本文中に使用しているイラストは、説明の都合上現物と多少異なる場合があります。

DENON

TOKYO, JAPAN
Denon Brand Company, D&M Holdings Inc.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

CAUTION Please heed the points listed below during servicing and inspection.

◎ Heed the cautions!

Spots requiring particular attention when servicing, such as the cabinet, parts, chassis, etc., have cautions indicated on labels or seals. Be sure to heed these cautions and the cautions indicated in the handling instructions.

◎ Caution concerning electric shock!

(1) An AC voltage is impressed on this set, so touching internal metal parts when the set is energized could cause electric shock. Take care to avoid electric shock, by for example using an isolating transformer and gloves when servicing while the set is energized, unplugging the power cord when replacing parts, etc.

(2) There are high voltage parts inside. Handle with extra care when the set is energized.

◎ Caution concerning disassembly and assembly!

Though great care is taken when manufacturing parts from sheet metal, there may in some rare cases be burrs on the edges of parts which could cause injury if fingers are moved across them. Use gloves to protect your hands.

◎ Only use designated parts!

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). For replacement parts, be sure to use parts which have the same properties. In particular, for the important safety parts that are marked \triangle on wiring diagrams and parts lists, be sure to use the designated parts.

◎ Be sure to mount parts and arrange the wires as they were originally!

For safety reasons, some parts use tape, tubes or other insulating materials, and some parts are mounted away from the surface of printed circuit boards. Care is also taken with the positions of the wires inside and clamps are used to keep wires away from heating and high voltage parts, so be sure to set everything back as it was originally.

◎ Inspect for safety after servicing!

Check that all screws, parts and wires removed or disconnected for servicing have been put back in their original positions, inspect that no parts around the area that has been serviced have been negatively affected, conduct an insulation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.

(Insulation check procedure)

Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and turn the power switch on. Using a 500V insulation resistance tester, check that the insulation resistance between the terminals of the power plug and the externally exposed metal parts (antenna terminal, headphones terminal, microphone terminal, input terminal, etc.) is 1M Ω or greater. If it is less, the set must be inspected and repaired.

CAUTION Concerning important safety parts

Many of the electric and structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and using replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and parts lists in this service manual. Be sure to replace them with parts with the designated part number.

(1) Schematic diagrams ... Indicated by the \triangle mark.

(2) Parts lists ... Indicated by the \triangle mark.

Using parts other than the designated parts could result in electric shock, fires or other dangerous situations.

注意 サービス、点検時にはつぎのことにご注意願います。

◎ 注意事項をお守りください！

サービスのとき特に注意を必要とする個所についてはキャビネット、部品、シャーシなどにラベルや捺印で注意事項を表示しています。これらの注意書きおよび取扱説明書などの注意事項を必ずお守りください。

◎ 感電に注意！

(1) このセットは、交流電圧が印加されていますので通電時に内部金属部に触れると感電することがあります。従って通電サービス時には、絶縁トランスの使用や手袋の着用、部品交換には、電源プラグを抜くなどして感電にご注意ください。

(2) 内部には高電圧の部分がありますので、通電時の取扱には十分ご注意ください。

◎ 分解、組み立て作業時のご注意！

板金部品の端面の『バリ』は、部品製造時に充分管理をしておりますが、板金端面は鋭利となっている箇所がありますので、部品端面に触れたまま指を動かすとまれに怪我をする場合がありますので十分注意して作業して下さい。手の保護のために手袋を着用して下さい。

◎ 指定部品の使用！

セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は、使用されていたものと同じ特性の部品を使用してください。特に配線図、部品表に \triangle 印で指定されている安全上重要な部品は必ず指定のものをご使用ください。

◎ 部品の取付けや配線の引きまわしは、元どおりに！

安全上、テープやチューブなどの絶縁材料を使用したり、プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランプによって発熱部品や高圧部品に接近しないように配慮されていますので、これらは必ず元どおりにしてください。

◎ サービス後は安全点検を！

サービスのために取り外したねじ、部品、配線などが元どおりになっているか、またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し、外部金属端子部と、電源プラグの刃の間の絶縁チェックをおこなうなど、安全性が確保されていることを確認してください。

(絶縁チェックの方法)

電源コンセントから電源プラグを抜き、アンテナやプラグなどを外し、電源スイッチを入れます。500V 絶縁抵抗計を用いて、電源プラグのそれぞれの端子と外部露出金属部 [アンテナ端子、ヘッドホン端子、マイク端子、入力端子など] との間で、絶縁抵抗値が 1M Ω 以上であることを確認してください。この値以下のときはセットの点検修理が必要です。

注意 安全上重要な部品について

本機に使用している多くの電気部品、および機構部品は安全上、特別な特性を持っています。この特性はほとんどの場合、外観では判別つきにくく、またもとの部品より高い定格（定格電力、耐圧）を持ったものを使用しても安全性が維持されることは、限りません。安全上の特性を持った部品は、このサービスマニュアルの配線図、部品表に同じように表示していますので必ず指定されている部品番号のものを使用願います。

(1) 配線図... \triangle マークで表示しています。

(2) 部品表... \triangle マークで表示しています。

指定された部品と異なるものを使用した場合には、感電、火災などの危険を生じる恐れがあります。

CAUTION IN SERVICING

Initializing AM-FM RECEIVER

AM-FM RECEIVER initialization should be performed when the μ com and peripheral parts of μ com are replaced.

1. Switch off the unit using the Main unit's power operation switch.
2. Hold the following "CD" button and the "PRESET+" button, and turn the Main unit's power operation switch on.
3. Check that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons and the microprocessor will be initialized.

Note: • If step 3 does not work, start over from step 1.

- All user settings will be lost and this factory setting will be recovered when this initialization mode. So make sure to memorize your setting for restoring after the initialization.

サービス時の注意事項

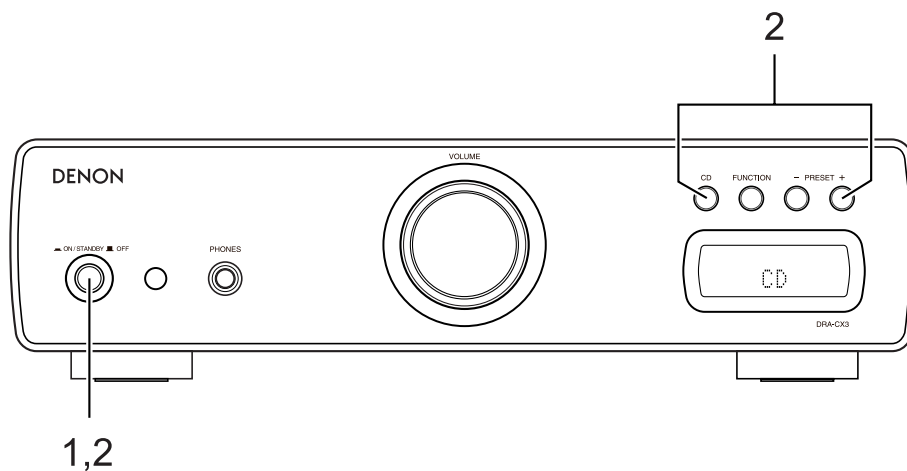
AM-FM レシーバーの初期化について

マイコンやマイコン周辺部品等を交換した場合は、AM-FM レシーバーの初期化を行って下さい。

1. 電源スイッチを OFF にします。
2. "CD" ボタンと "PRESET+" ボタンを同時に押しながら、電源スイッチを ON にします。
3. ディスプレイ表示が約 1 秒間隔で点滅するのを確認後、2つのボタンから指を離します。
*マイコンが初期化されます。

注意: • 上記3の状態にならない場合は、もう一度操作1からやり直してください。

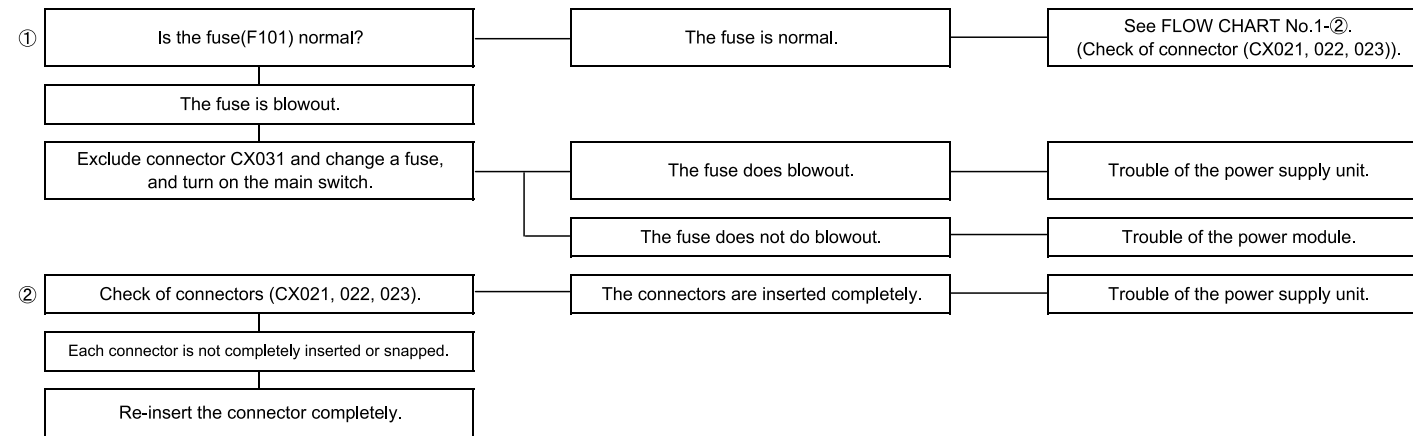
- 初期化を行うとお客様が設定した内容が工場出荷状態に戻りますので、あらかじめ設定内容を控えておき初期化後再設定してください。



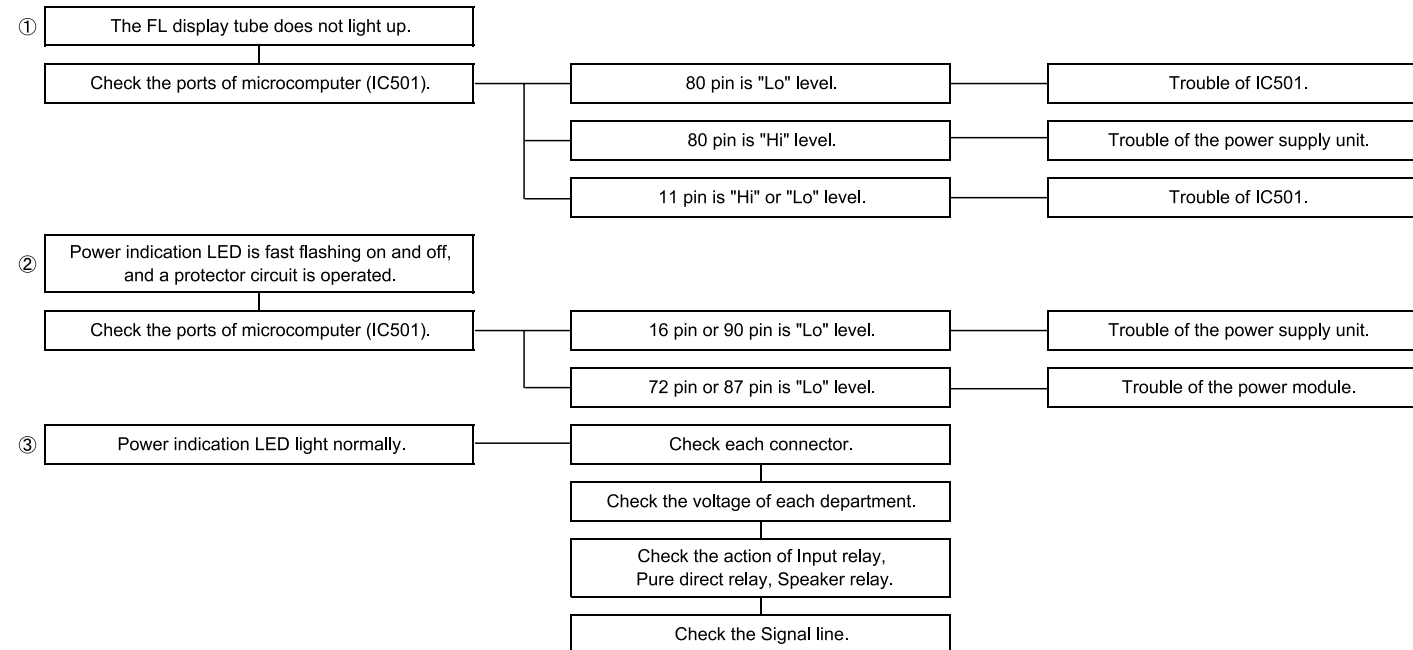
TROUBLESHOOTING

DRA-CX3 TROUBLESHOOTING

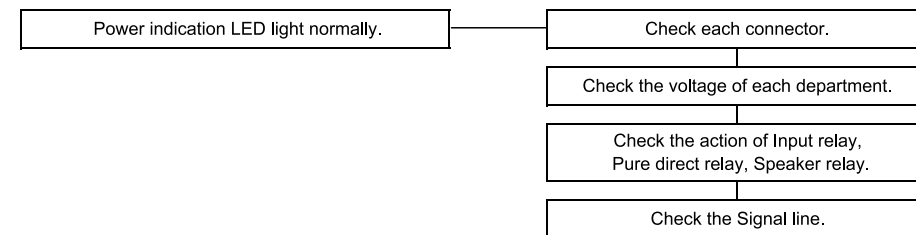
1 The power cannot be turned on. (Power indication LED does not light.)



2 The power turned on, but a sound does not output normally. (Both channels)

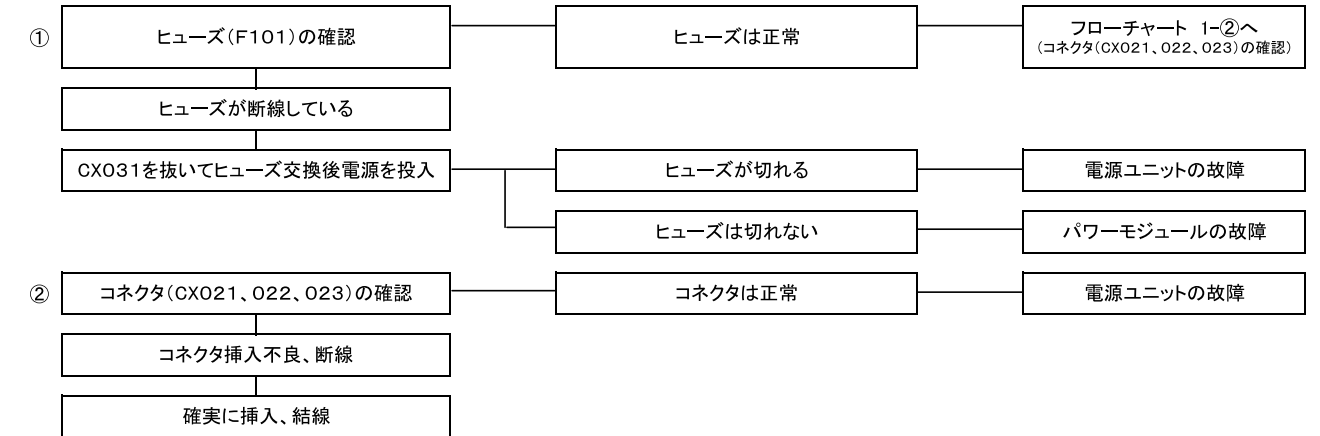


3 The power turned on, but a sound does not output normally. (Single channel)

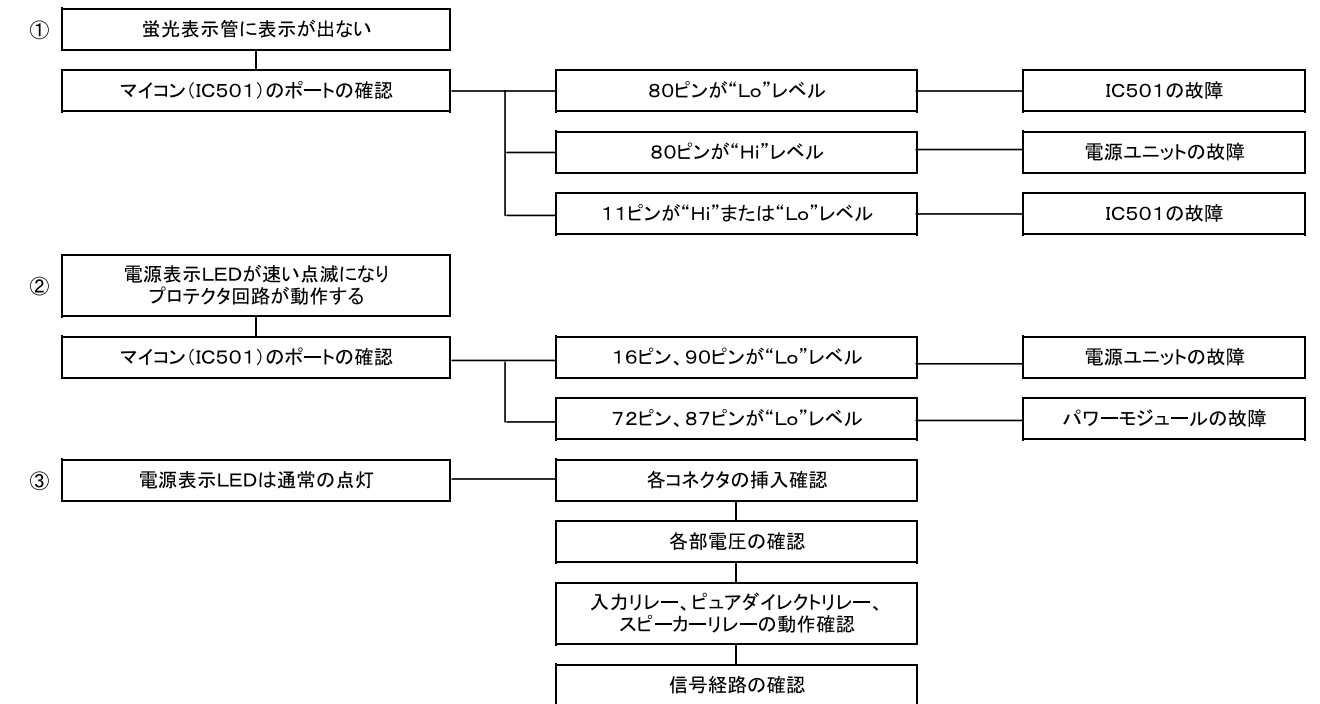


DRA-CX3 トラブルシューティング

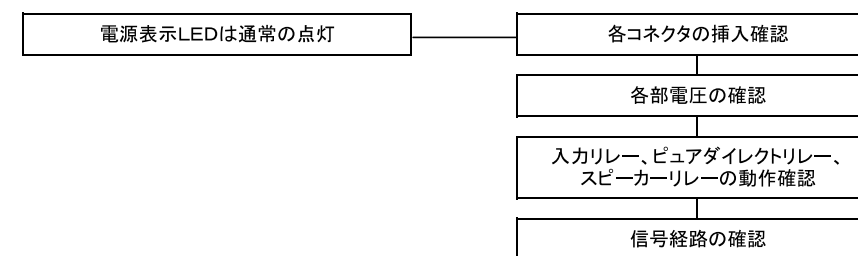
1 電源が入らない(電源表示LEDが点灯しない)

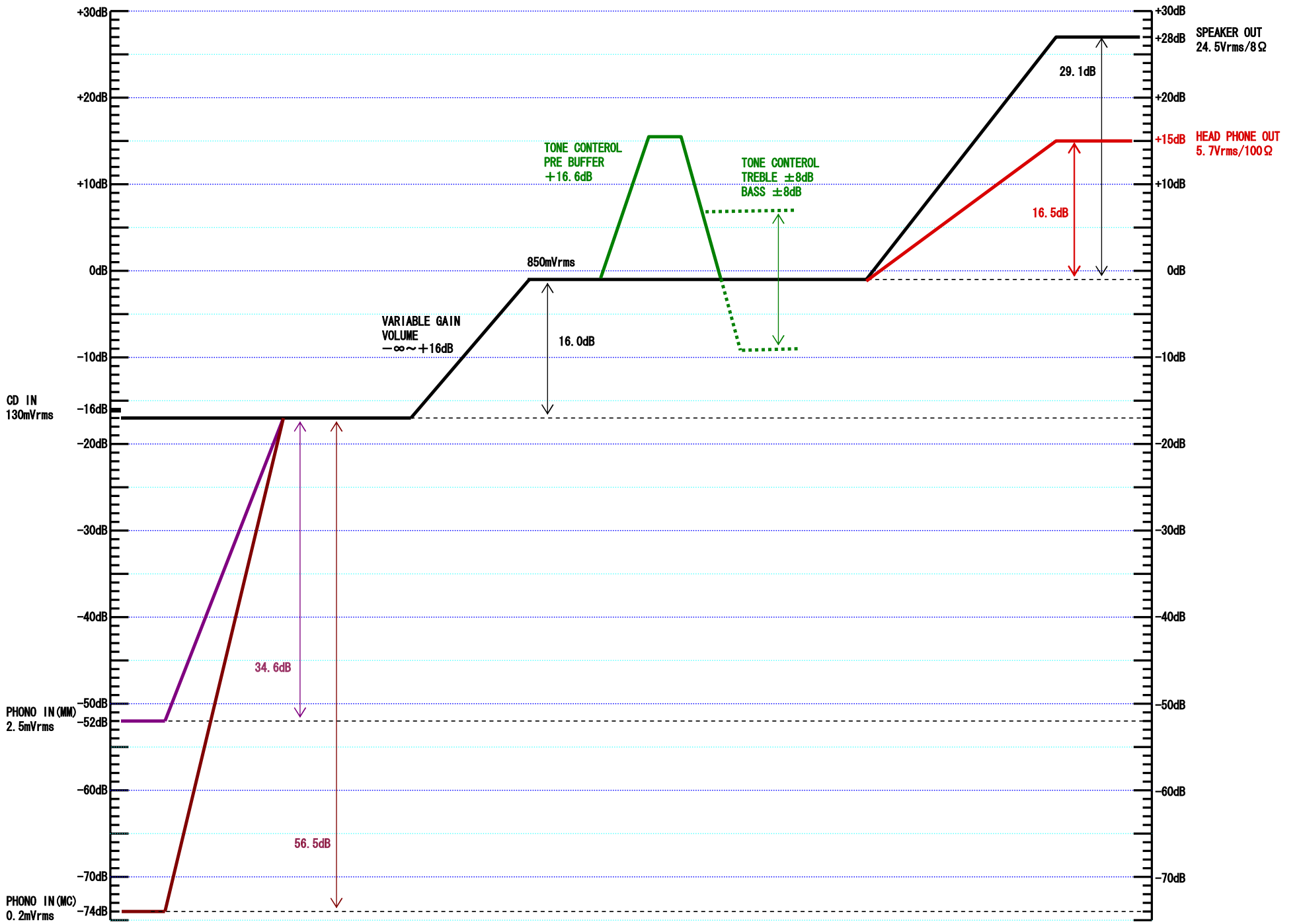
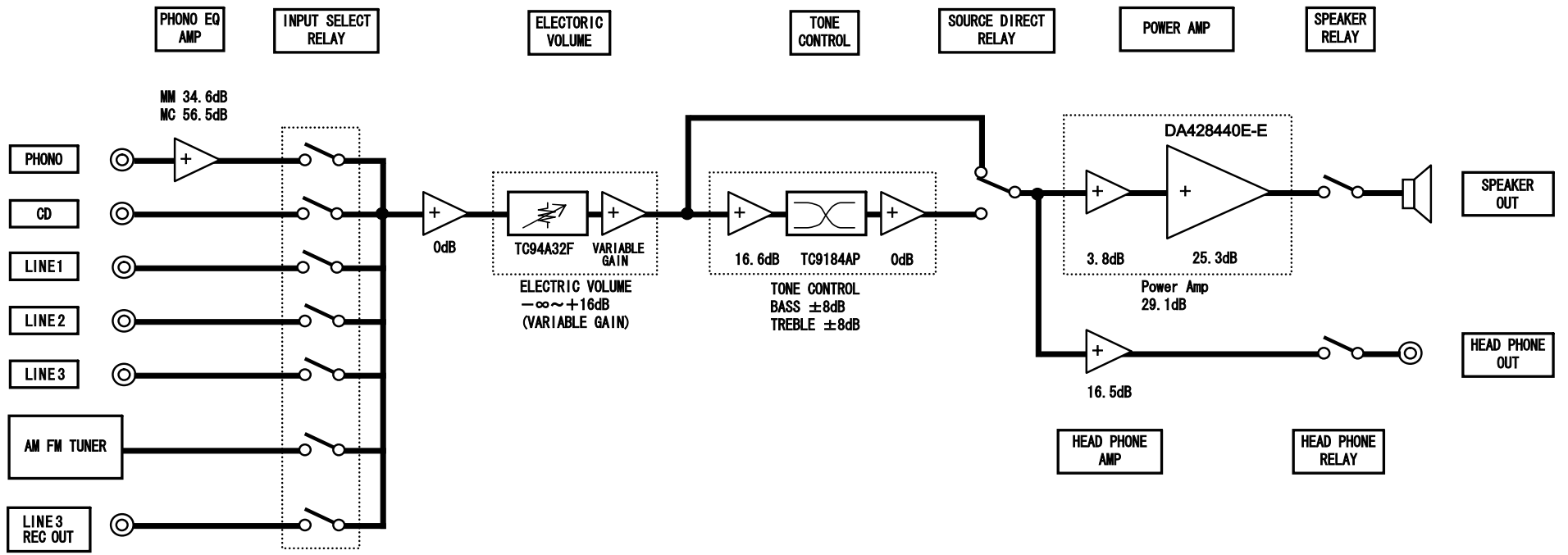


2 電源は入るが音が出ない(両チャンネル)



3 電源は入るが音が出ない(片チャンネル)

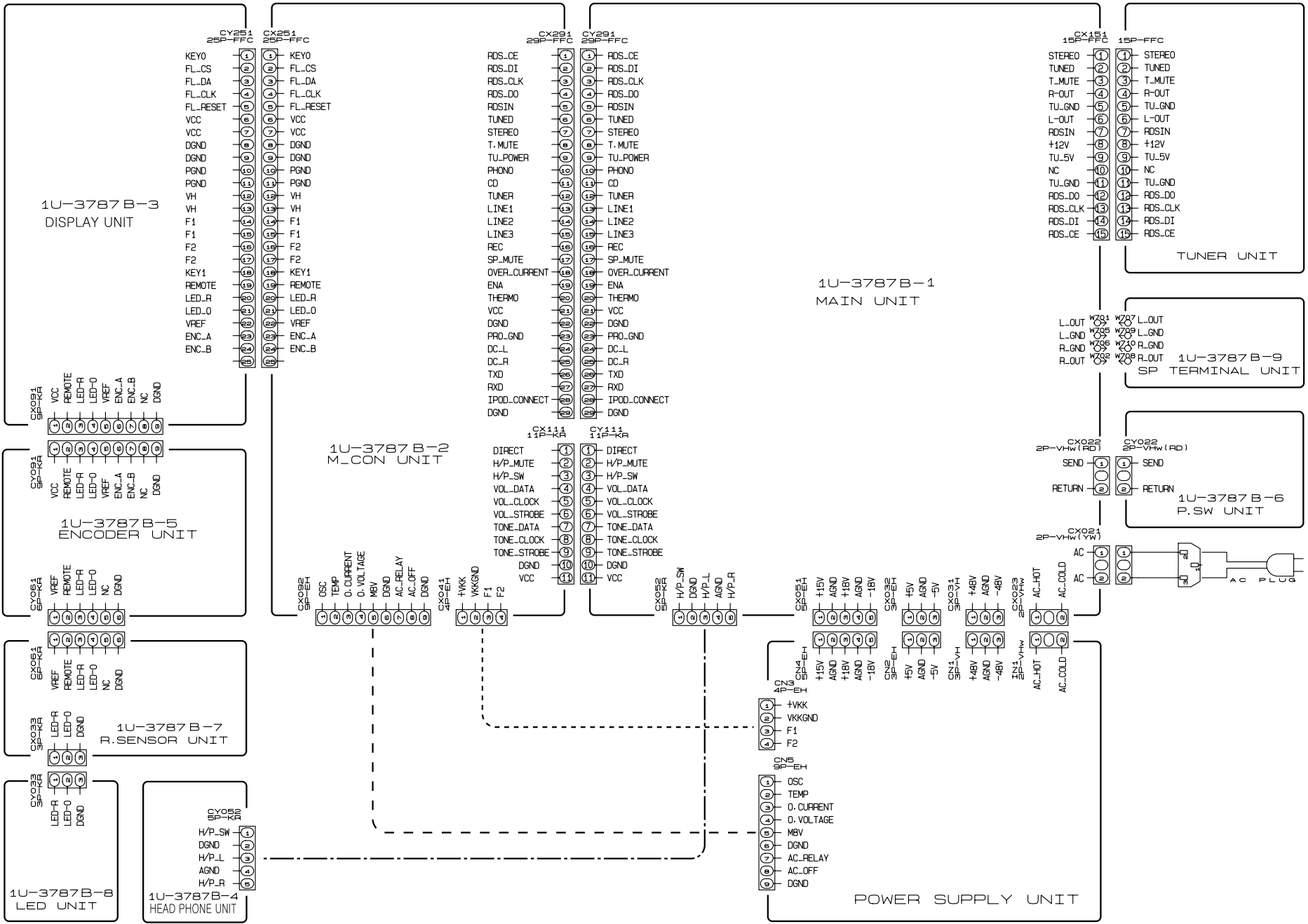




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WIRING DIAGRAM

DRA-CX3

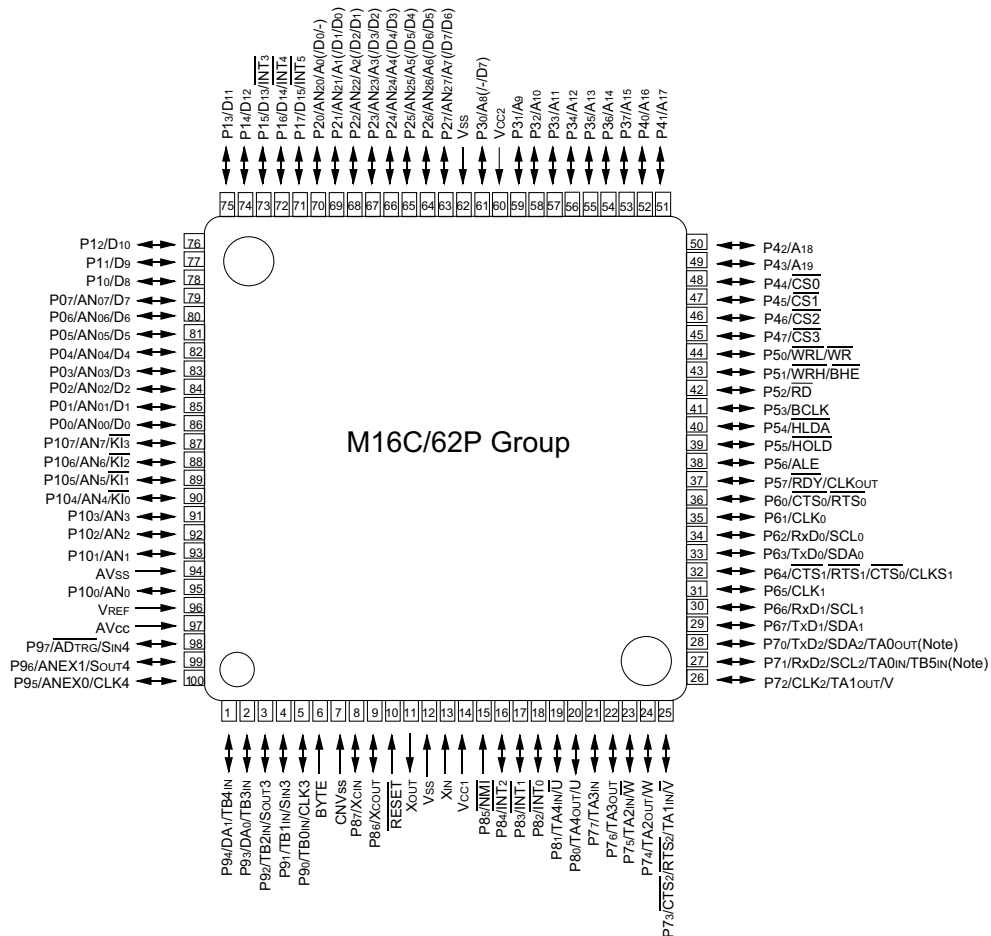


SEMICONDUCTORS / 半導体一覧表

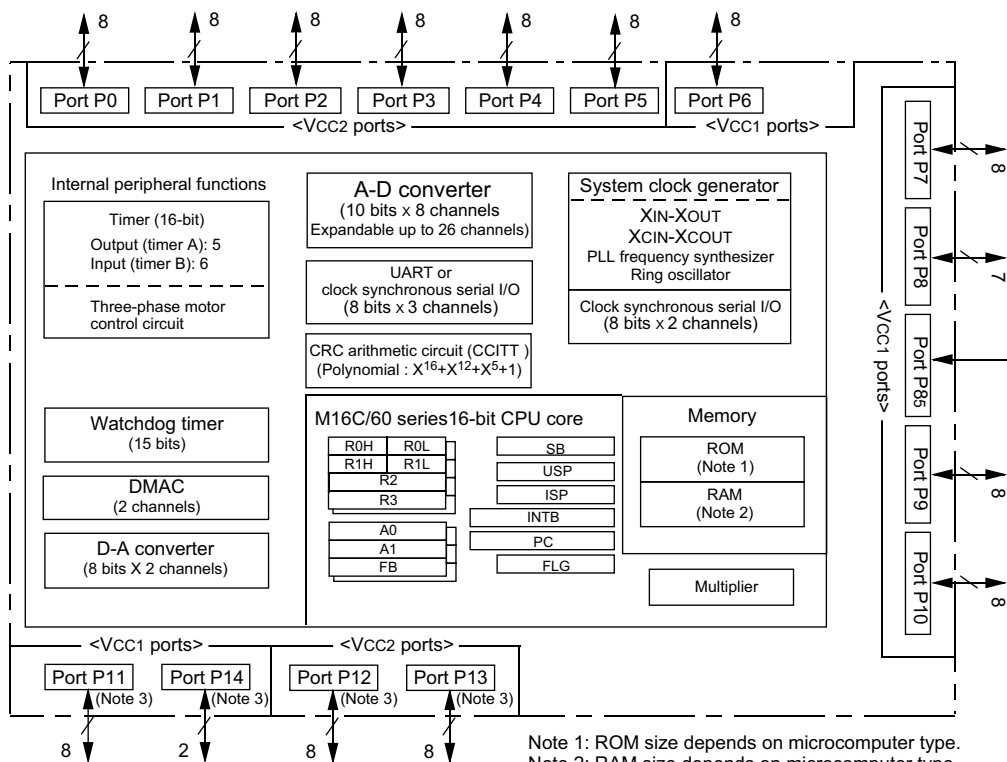
Only major semiconductors are shown, general semiconductors etc. are omitted to list.
 主な半導体を記載しています。汎用の半導体は記載を省略しています。

IC's

M3062LFGPGP (IC501)



BLOCK DIAGRAM

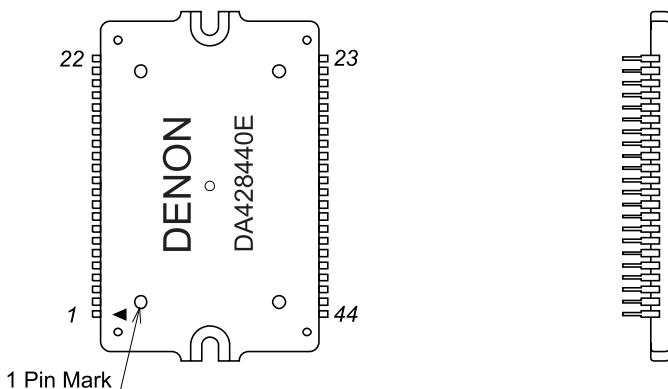


Terminal Function

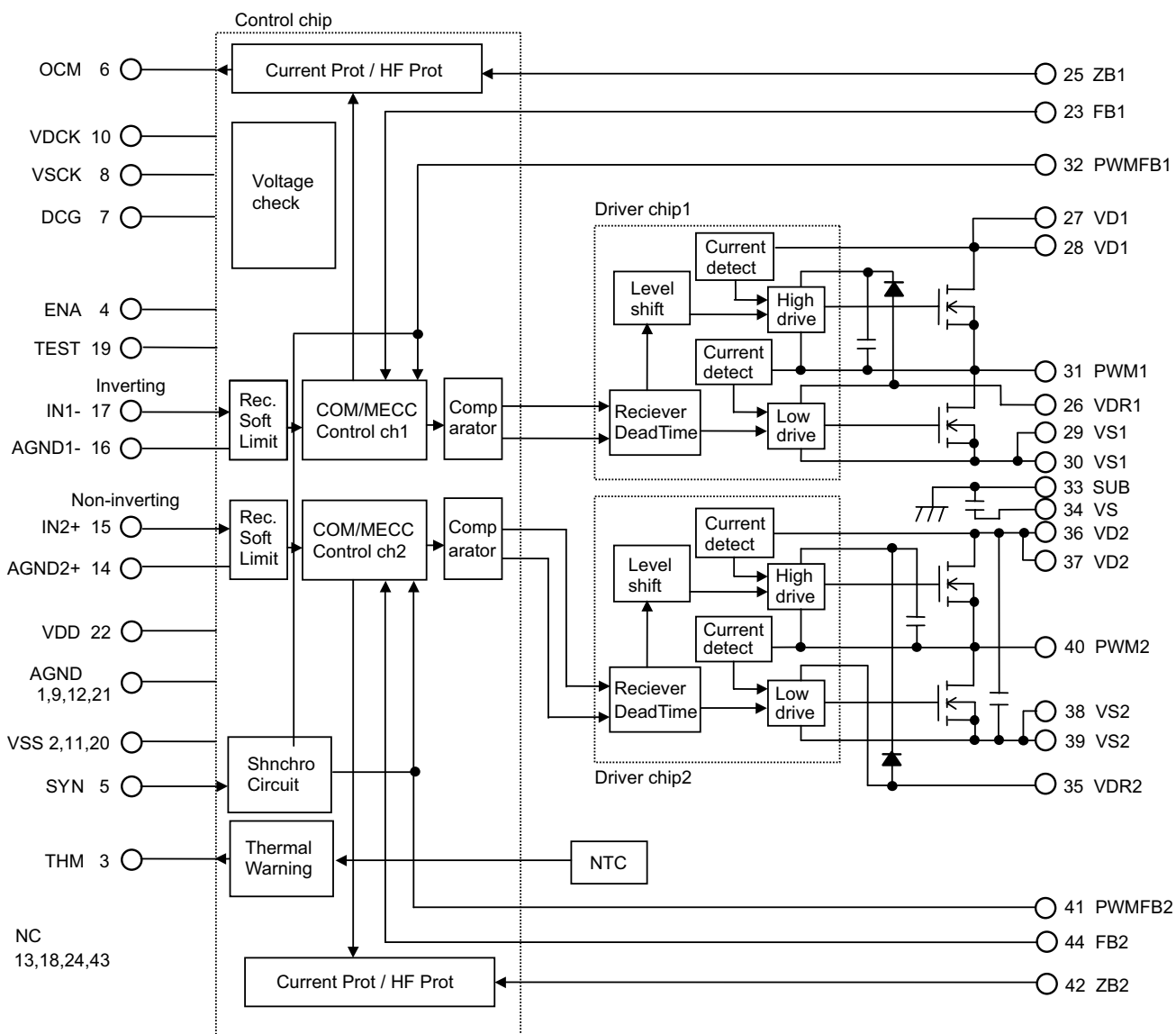
Pin No.	Port Name	I/O	Initial	Function
1	NC	O	-	Not Used.
2	FL_RESET	O	L	Reset output to driver built into FL display tube. (Low pulse of a microsecond or more .)
3	TONE_DATA	O	L	Data output to TC9184AP. (20bit)
4	TONE_STROBE	O	L	Strobe output to TC9184AP.
5	TONE_CLOCK	O	L	Clock output to TC9184AP. (below 500kHz)
6	BYTE	I	-	External data bus width switching input. (GND : Single chip mode)
7	CNVSS	I	-	Processor mode switching input. (GND : Single chip mode, PULL DOWN) (Use for updating program.)
8	NC	O	L	Not Used.
9	NC	O	L	Not Used.
10	RESET	I	-	Reset input.
11	XOUT	O	-	Oscillator output. (16 MHz)
12	VSS	I	-	GND.
13	XIN	I	-	Oscillator output. (16 MHz)
14	VCC1	I	-	Power supply.
15	NC	I	-	Not used. (PULL UP)
16	O.CURRENT/ O.VOLTAGE	I	-	Overcurrent / overvoltage detection input of power supply unit. (Active : Low edge)
17	AC OFF	I	-	Power failure detection input.
18	DBRXD	I	-	Not used. (GND)
19	OSC	O	L	Oscillation frequency control output of power supply unit.
20	H/P_SW	I	-	Headphones connected/disconnected detection input.
21	ENC_B	I	-	Rotary encoder B terminal input.
22	ENC_A	I	-	Rotary encoder A terminal input.
23	FL_CS	O	L	Chip selection output to driver built into FL display tube.
24	LED_O	O	L	Power LED control signal output. (Orange, STANDBY, H:turn on)
25	LED_R	O	L	Power LED control signal output. (Red, POWER ON, H:turn on)
26	DABCLK	O	L	Not used.
27	DABRXD	I	-	Not used. (GND)
28	DABTXD	O	L	Not used.
29	IPOD_TX	O	L	Data output to i-Pod. (Use even when updating program.)
30	IPOD_RX	I	-	Data input from i-Pod. (Use even when updating program.)
31	NC	O	L	Not used.
32	NC	O	L	Not used. (Terminal for RDS test)
33	S1_DIN	I	-	GND. (DAB ready communication input)
34	S1_DOUT	O	L	Not used. (DAB ready communication output)
35	NC	O	L	Not used.
36	NC	O	L	Not used.
37	NC	O	L	Not used.
38	NC	O	L	Not used.
39	EPM	O	L	Use for updating program.
40	E2P_CLK	O	L	Clock output to EEPROM.
41	E2P_DO	I	-	Data input from EEPROM.
42	E2P_DI	O	L	Data output to EEPROM.
43	E2P_CS	O	L	Chip selection output to EEPROM.
44	CE	O	L	Use for updating program.
45	NC	O	L	Not used.
46	NC	O	L	Not used.
47	PWB_CHECK	I	-	PWB checking mode input.
48	PWB_CHECK	I	-	PWB checking mode input.
49	PWB_CHECK	I	-	PWB checking mode input.
50	PWB_CHECK	I	-	PWB checking mode input.
51	NC	O	L	Not used.
52	NC	O	L	Not used.
53	NC	O	L	Not used.
54	PHONO	O	L	Output for input selection relay. (H : select PHONE)
55	CD	O	L	Output for input selection relay. (H : select CD)
56	LINE1	O	L	Output for input selection relay. (H : select LINE1)
57	LINE2	O	L	Output for input selection relay. (H : select LINE2)

Pin No.	Port Name	I/O	Initial	Function
58	LINE3	O	L	Output for input selection relay. (H : select LINE3)
59	TU_POWER	O	L	Tuner power ON/OFF control. (H : Tuner ON)
60	VCC	I	-	Power supply.
61	TUNER	O	L	Output for input selection relay. (H : select TUNER)
62	VSS	I	-	GND.
63	RDS_RST	O	L	Reset output to RDS IC.
64	STEREO	I	-	Tuner stereo signal detection input.
65	TUNED	I	-	Tuner reception detection input.
66	T.MUTE	O	L	Tuner MUTE output.
67	RDS_CE	O	L	Chip enable output to tuner RDS IC.
68	RDS_DATA	O	L	Data output to tuner RDS IC.
69	RDS_CLK	O	L	Clock output to tuner RDS IC.
70	RDS_DO	I	-	Data input from tuner RDS IC.
71	Not used	I	-	GND. (Not used)
72	PROTECT	I	-	Power Amp. Error detection input.
73	REMOTE	I	-	IR remote controller input.
74	IPOD_CONNECT	I	-	i-Pod connected/disconnected detection input. (H : Connected)
75	IPOD_POWER	O	L	i-Pod power supply ON/OFF control output.
76	ENA	O	L	Signal output to stop oscillator of Power Amp.
77	SP_MUTE	O	L	SP MUTE output. (H: MUTE ON)
78	DIRECT	O	L	SOURCE DIRECT RELAY control output.
79	H/P_MUTE	O	L	Headphone MUTE output. (H: MUTE ON)
80	AC_RELAY	O	L	Power ON/OFF control. (H : Tuner ON)
81	NC	O	L	Not used.
82	REC	O	L	REC MUTE output. (H: MUTE ON)
83	VOL_DATA	O	L	Data output to TC94A32FG. (24bit)
84	VOL_CLOCK	O	L	Clock output to TC94A32FG. (below 1MHz)
85	VOL_STROBE	O	L	Strobe output to TC94A32FG.
86	NC	O	L	Not used.
87	THERMO	I	-	Power Amp. Overheating detection input.
88	USA	O	L	Not Used.
89	EURO	I	-	Product destination selection input. (JAPAN : L, EURO : H)
90	TEMP	I	-	Power unit overheating detection input.
91	FREQ	I	-	TUNER's skip frequency switching input.
92	RDS	I	-	RDS YES/NO selection input. (H : YES, L : NO)
93	KEY0	I(AD)	-	Main unit's operating button detection input.
94	AVSS	I	-	GND for AD converter.
95	KEY1	I(AD)	-	Main unit's operating button detection input.
96	VREF	I	-	Reference voltage input for AD converter and DA converter.
97	AVCC	I	-	Power supply of AD converter.
98	NC	O	L	Not used.
99	FL_DA	O	L	Serial data output to driver built into FL display tube.
100	FL_CLK	O	L	Serial clock output to driver built into FL display tube.

DA428440E-E (IC702)



BLOCK DIAGRAM

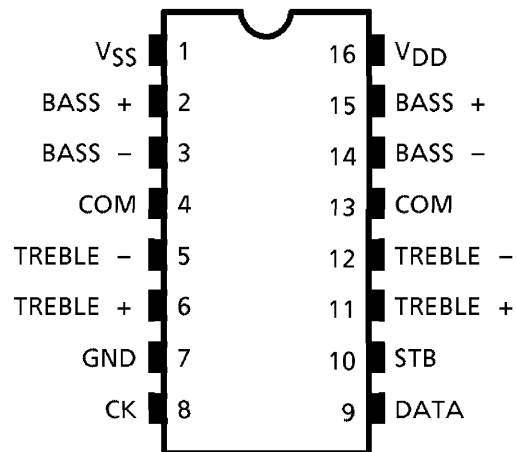


Terminl Function

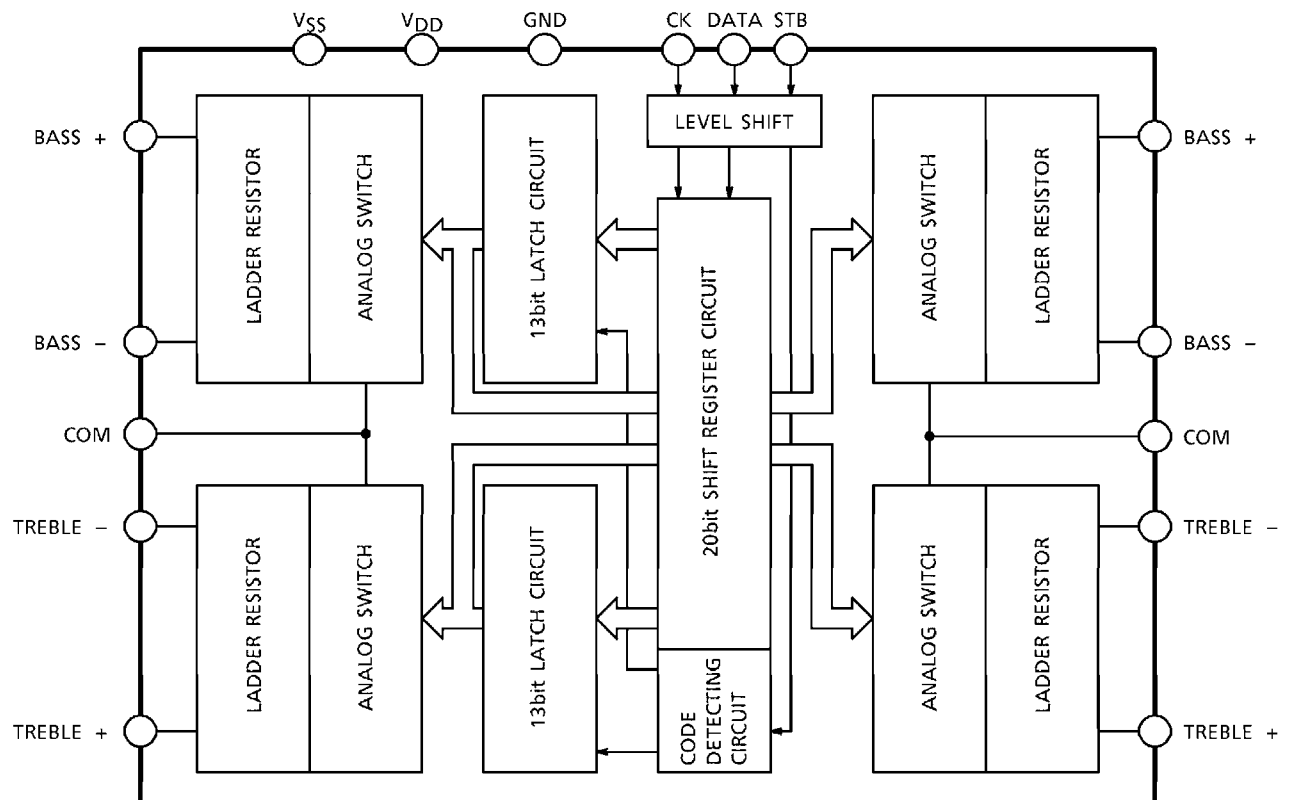
Pin No.	Pin Name	Function
1	AGND	Analog ground for control chip power supply.
2	VSS	Negative power supply for control chip (-5V).
3	THM	Thermal Monitor Error signal of open collector output "L" for two conditions. 1. Over temperature limitation. 2. Over temperature warning. By connecting to the ENA pin, thermal shutdown is set.
4	ENA	Bi-direction input/output. The input "H" enables to start switching and the input "L" disables. Input is including hysteresis for glitch free enable of the system. When the protection circuit detects the over voltage condition, the open collector output turns on.
5	SYN	The switching frequency can be synchronized with frequency of this pin signal to avoid the influence for AM radio tuner. Normal condition is "L".
6	OCM	Over Current Monitor Error signal of open collector output "L" for two conditions. 1. Over current limitation. 2. For monitoring the state of control and average voltage across the zobel resistor in case of of-limit conditions.
7	DCG	This high impedance output generates a current in case of over voltage condition on the power stage voltage (VD/VS). This current is designed to turn-on a set of discharge transistors.
8	VSCK	This high impedance input for monitoring negative power stage. This monitoring controls the soft clipping circuit and the over voltage shutdown.
9	AGND	Analog ground for control chip power supply.
10	VDCK	This high impedance input for monitoring positive power stage. This monitoring controls the soft clipping circuit and the over voltage shutdown.
11	VSS	Negative power supply for control chip (-5V).
12	AGND	Analog ground for control chip power supply.
13	NC	
14	AGND2	Input reference for channel 2. This is true inverting low impedance (1kohm) input for avoiding ground loop noise.
15	IN2+	High impedance audio input for channel 2. This input is non-inverting.
16	AGND1	Input reference for channel 1. This is true non-inverting low impedance (2kohm) input for avoiding ground loop noise.
17	IN1-	High impedance audio input for channel 1. This input is inverting.
18	NC	
19	TEST	Test terminal connect to VSS.
20	VSS	Negative power supply for control chip (-5V).
21	AGND	Analog ground for control chip power supply.
22	VDD	Positive power supply for control chip (+5V).
23	FB1	Feedback for global loop of channel 1.
24	NC	
25	ZB1	For estimating the power dissipation in the zobel resistor, this input is sensing the zobel voltage via a resistive network of channel 1.
26	VDR1	Positive supply for driver chip of channel 1 with respect to VS1; (VS1+10V).
27	VD1	Positive supply for power stage of channel 1.
28	VD1	Positive supply for power stage of channel 1.
29	VS1	Negative supply for power stage of channel 1.
30	VS1	Negative supply for power stage of channel 1.
31	PWM1	PWM output of channel 1.
32	PWMFB1	Feedback for inner loop of channel 1.
33	SUB	Substrate of IMST.
34	VS	Negative supply for power stage.
35	VDR2	Positive supply for driver chip of channel 2 with respect to VS2;(VS2+10V).
36	VD2	Positive supply for power stage of channel 2.
37	VD2	Positive supply for power stage of channel 2.
38	VS2	Negative supply for power stage of channel 2.
39	VS2	Negative supply for power stage of channel 2.
40	PWM2	PWM output of channel 2.
41	PWMFB2	Feedback for inner loop of channel 2.
42	ZB2	For estimating the power dissipation in the zobel resistor, this input is sensing the zobel voltage via a resistive network of channel 2.
43	NC	
44	FB2	Feedback for global loop of channel 2.

TC9184AP (IC307)

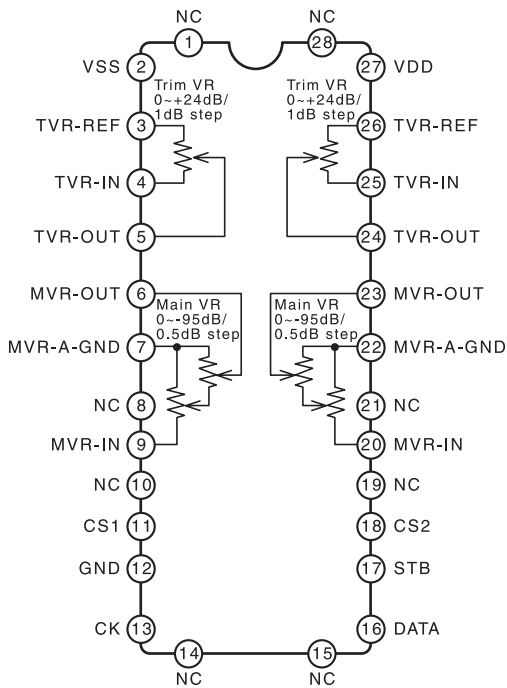
PIN CONNECTION



BLOCK DIAGRAM



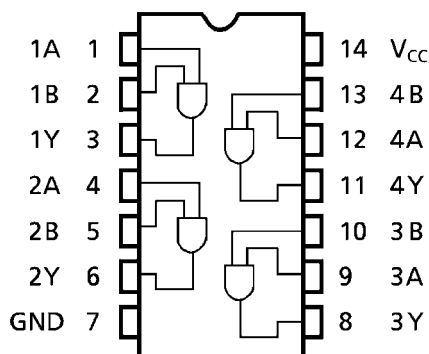
TC94A32F (IC306)



TC94A32FG Terminal Function

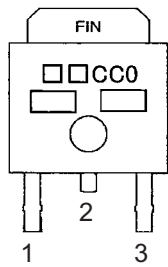
Pin No.	Pin Name	Function																														
2	VSS																															
27	VDD																															
12	GND																															
3	L-TVR-REF	Trim volume circuit 																														
26	R-TVR-REF																															
4	L-TVR-IN																															
25	R-TVR-IN																															
5	L-TVR-OUT																															
24	R-TVR-OUT																															
6	L-MVR-OUT	Main volume circuit 																														
23	R-MVR-OUT																															
7	L-MVR-AGND																															
22	R-MVR-AGND																															
9	L-MVR-IN																															
20	R-MVR-IN																															
11	CS1	Chip select code switching input <table border="1"> <thead> <tr> <th>CS1</th> <th>CS2</th> <th colspan="4">Chip select code</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>L</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>H</td> <td>L</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>L</td> <td>H</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> </tr> <tr> <td>H</td> <td>H</td> <td>1</td> <td>1</td> <td>0</td> <td>1</td> </tr> </tbody> </table>	CS1	CS2	Chip select code				L	L	0	0	0	1	H	L	1	0	0	1	L	H	0	1	0	1	H	H	1	1	0	1
CS1	CS2		Chip select code																													
L	L	0	0	0	1																											
H	L	1	0	0	1																											
L	H	0	1	0	1																											
H	H	1	1	0	1																											
18	CS2																															
13	CK	Clock input pin for data transfer																														
16	DATA	A-SW control data input pin																														
17	STB	Strobe input pin for data writing																														
1, 28, 8, 21, 10, 19, 14, 15	NC																															

**TC74VHCT08AFT (IC504)
TC74LCX08FT (IC602)**

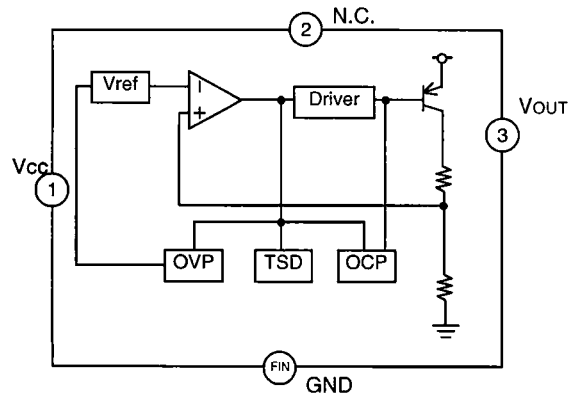


BA05FP (IC502)
BA033FP (IC601)

BLOCK DIAGRAM

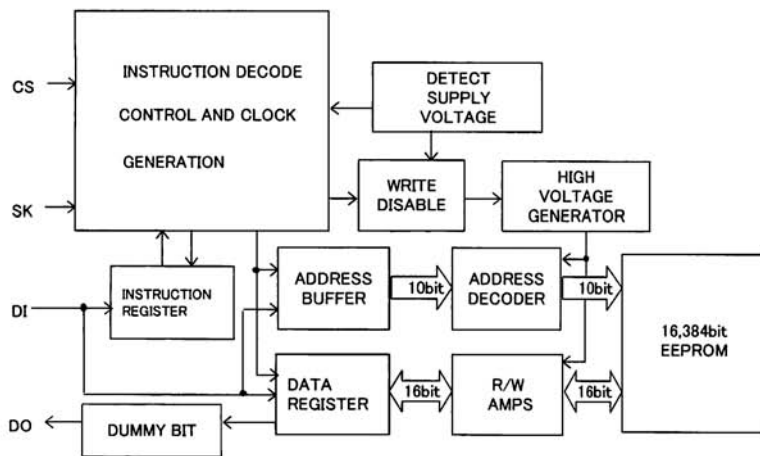


1: Vcc
 2: N.C.
 3: Vout
 FIN: GND



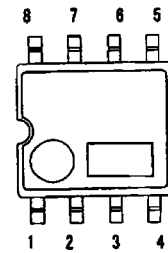
BR93L86RFVM-WTR (IC505)

◇ BLOCK DIAGRAM

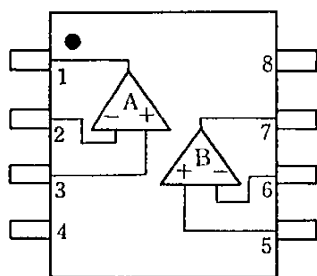


◇ PIN No. / PIN NAME

PIN No.	PIN NAME
1	CS
2	SK
3	DI
4	DO
5	GND
6	N.C.
7	N.C.
8	Vcc



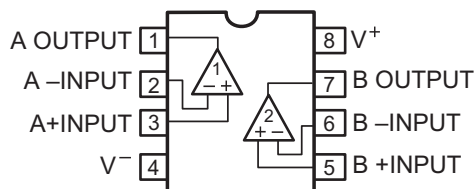
SA5532ADR (IC301)
OP275GSR (IC302)
NJM2068MD-TE1 (IC303)
OPA2134UA (IC304,701)



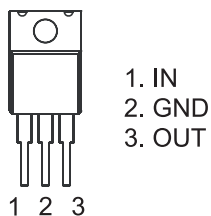
PIN FUNCTION

- 1. A OUTPUT
- 2. A-INPUT
- 3. A+INPUT
- 4. V-
- 5. B+INPUT
- 6. B-INPUT
- 7. B OUTPUT
- 8. V+

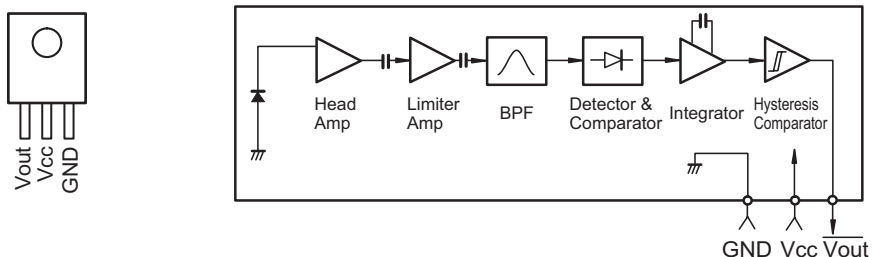
NJM4556AD (IC305)
NJM082D (IC401)



NJM7812FA(SS)-#4MS (IC202)

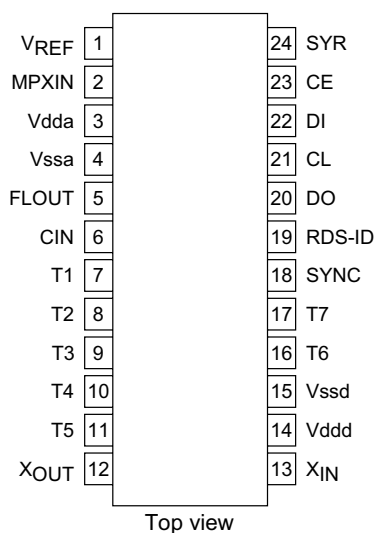


GP1UM271XK (IC503)

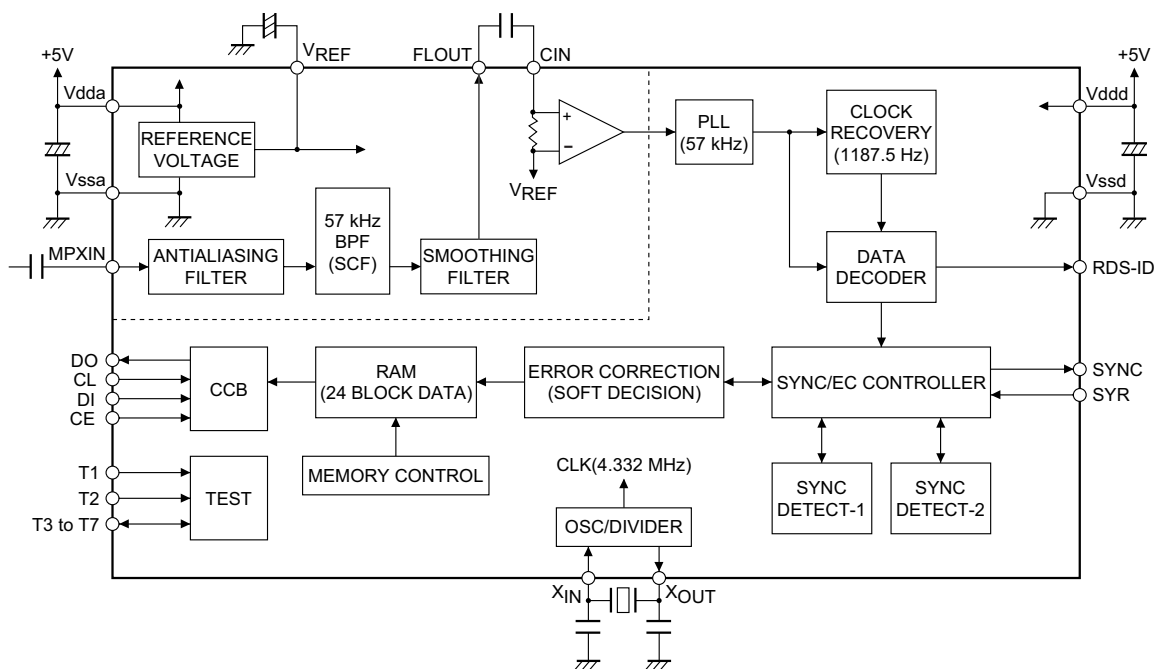


LC72722PM-TLM-E (IC201)

Pin Assignment

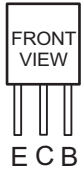


Block Diagram

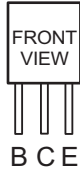


TRANSISTORS

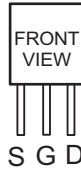
KTA1268BL
KTC3200BL



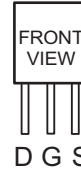
2SA1837 (Y)
2SC4793 (Y)



2SK373 (Y)

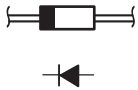


2SK170 (BL)
2SK369 (BL/GR)-C

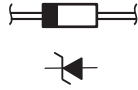


DIODES (LED included)

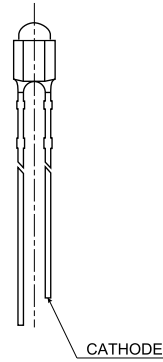
1SS270A
1SR139-400



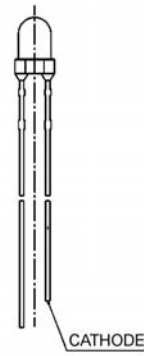
MTZJ3.3A
MTZJ5.6A
MTZJ16A
MTZJ18A
HZS11B-1



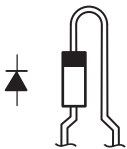
SLI-343DU3F (ORG)



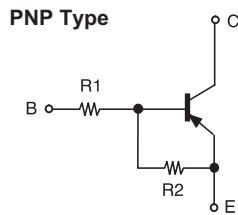
SLA-360LT3F (XE)



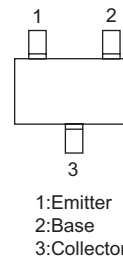
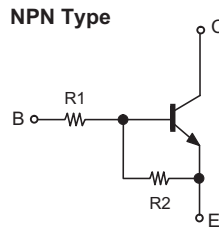
1SR35-400A



DTA114TK
DTA114EK

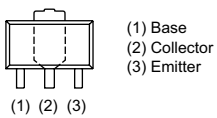


DTC114EK
DTC114TK
DTC114YK
DTC144EK
DTC323TK

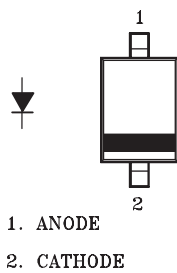


	R1	R2
DTA114EK	10kohm	10kohm
DTC114EK	10kohm	10kohm
DTC144EK	4.7kohm	47kohm
DTC114YK	10kohm	47kohm
DTC323TK	2.2kohm	—
DTA114TK	10kohm	—
DTC114TK	10kohm	—

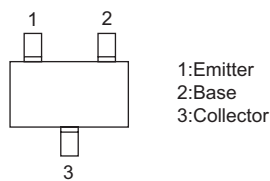
2SC4672



KDS160

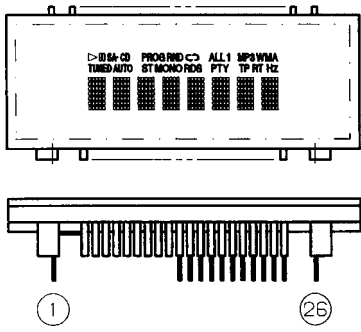


2SA1037K(S/R)
2SC2412K(S)



FL DISPLAY

8BT258GINK (FL 601)

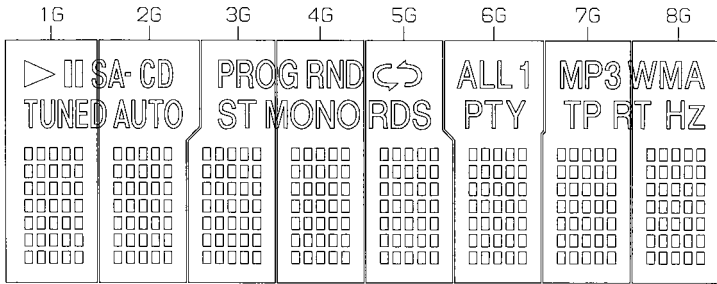


PIN CONNECTION

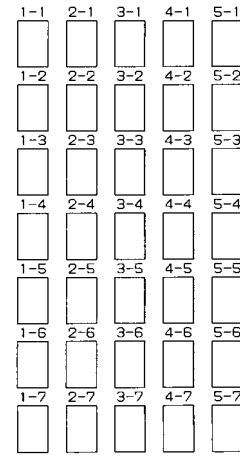
PIN NO.	1	2	3	4	~	23	24	25	26	11	11	11	11	11	11	12	22	22	22	22					
CONNECTION	F	N	N	N	N	T	T	S	D	C	C	S	I	R	M	S	D	V	N	N	N	N	F	F	F
	-	P	P	P	X	B	A	A	A	P	S	S	T	T	C	H	D	D	D	D	P	P	P	P	P

- NOTE
- 1) F-,F+ --- Filament
 - 2) NP ----- No pin
 - 3) NX ----- No extend pin
 - 4) DL ----- Datum Line
 - 5) LGND ---- Logic GND pin
 - 6) PGND ---- Power GND pin
 - 7) VH ----- High Voltage Supply pin
 - 8) VDD ---- Logic Voltage Supply pin
 - 9) CP ----- Shift Register Clock
 - 10) DA ----- Serial Data Input
 - 11) ISA,B --- Test pin
 - 12) CS ----- Chip Select Input pin
 - 13) OSC ----- Pin for self-oscillation
 - 14) RESET --- Reset Input
 - 15) Solder composition is Sn-3Ag-0.5Cu.

GRID ASSIGNMENT



SEGMENT DESIGNATION



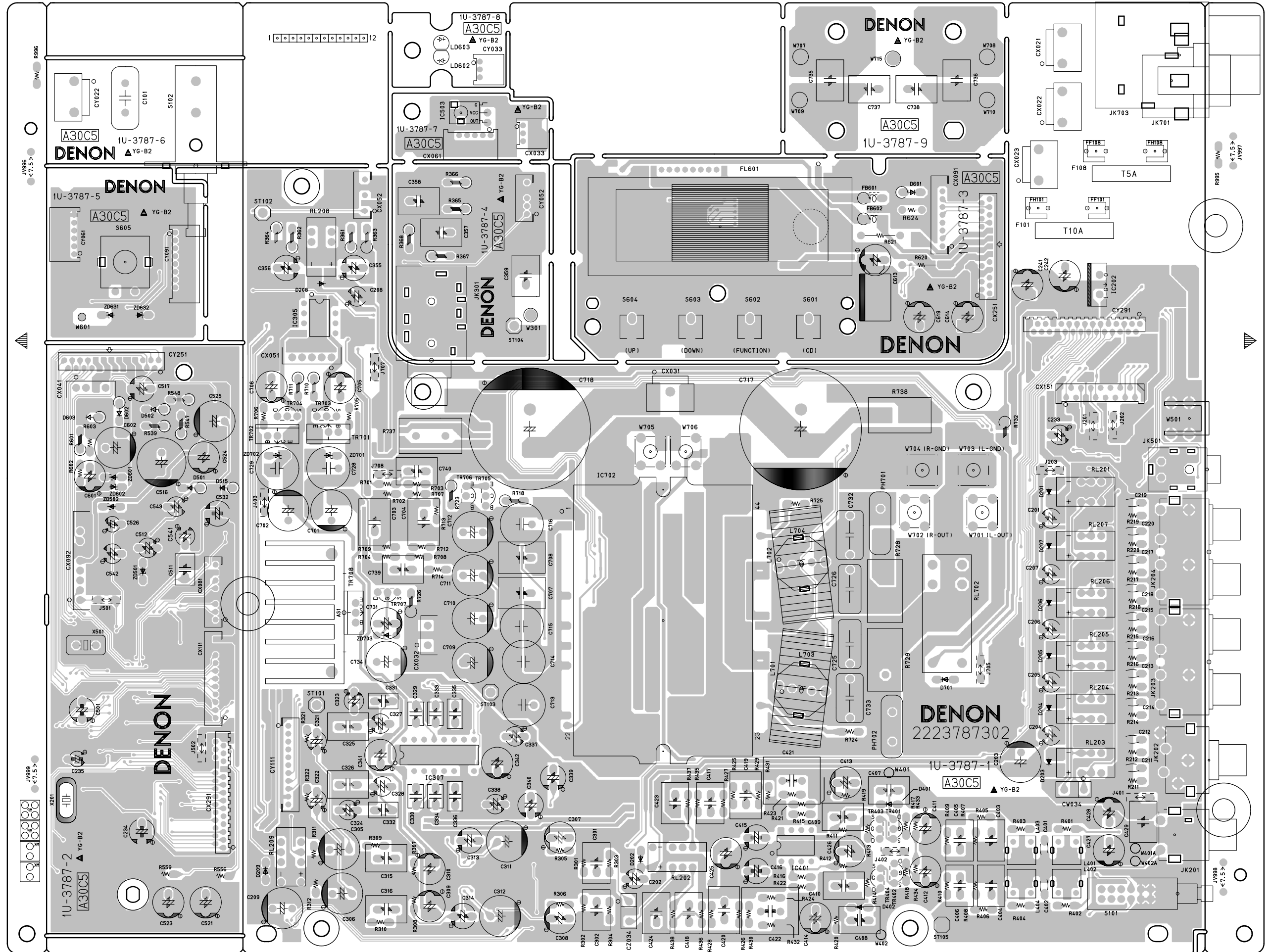
(1G~8G)

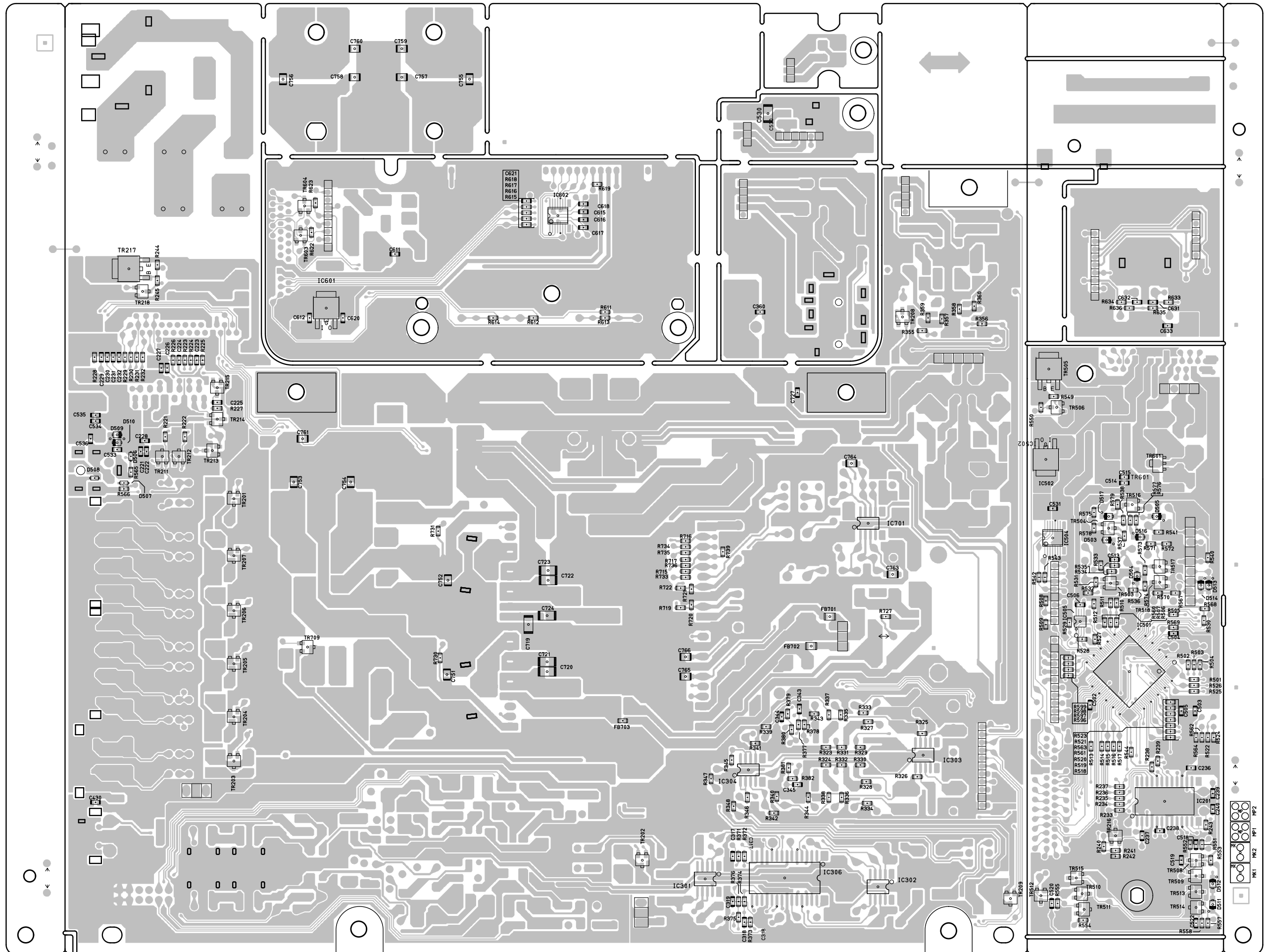
ANODE CONNECTION

	T1~T5	T6	T7~T8	T17	T18	T19
D0	1-1	1-1	1-1	-	-	-
D1	2-1	2-1	2-1	-	-	-
D2	3-1	3-1	3-1	-	-	-
D3	4-1	4-1	4-1	-	-	-
D4	5-1	5-1	5-1	-	-	-
D5	1-2	1-2	1-2	-	-	-
D6	2-2	2-2	2-2	-	-	-
D7	3-2	3-2	3-2	-	-	-
D8	4-2	4-2	4-2	-	-	-
D9	5-2	5-2	5-2	-	-	-
D10	1-3	1-3	1-3	-	-	-
D11	2-3	2-3	2-3	-	-	-
D12	3-3	3-3	3-3	-	-	-
D13	4-3	4-3	4-3	-	-	-
D14	5-3	5-3	5-3	-	-	-
D15	1-4	1-4	1-4	-	-	-
D16	2-4	2-4	2-4	-	-	-
D17	3-4	3-4	3-4	-	-	-
D18	4-4	4-4	4-4	-	-	-
D19	5-4	5-4	5-4	-	-	-
D20	1-5	1-5	1-5	-	-	-
D21	2-5	2-5	2-5	-	-	-
D22	3-5	3-5	3-5	-	-	-
D23	4-5	4-5	4-5	-	-	-
D24	5-5	5-5	5-5	-	-	-
D25	1-6	1-6	1-6	-	-	-
D26	2-6	2-6	2-6	-	-	-
D27	3-6	3-6	3-6	-	-	-
D28	4-6	4-6	4-6	-	-	-
D29	5-6	5-6	5-6	-	-	-
D30	1-7	1-7	1-7	-	-	-
D31	2-7	2-7	2-7	-	-	-
D32	3-7	3-7	3-7	-	-	-
D33	4-7	4-7	4-7	-	-	-
D34	5-7	5-7	5-7	-	-	-
AD1	-	PTY	-	SA	↻	TP
AD2	-	1	-	II	RND	WMA
AD3	-	ALL	-	▶	PROG	MP3
AD4	-	-	-	CD	ST	RT
AD5	-	-	-	TUNED	MONO	HZ
AD6	-	-	-	AUTO	RDS	-

1U-3787 MAIN P.W.B. UNIT

COMPONENT SIDE





NOTE FOR PARTS LIST

- Part indicated with the mark "nsp" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
- Not including General-purpose Carbon Chip Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

Parts marked with this symbol \triangle have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● **Resistors**

Ex.: **RN 14K 2E 182 G FR**

Type	Shape and performance	Power	Resistance	Allowable error	Others
RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming		

* **Resistance**

- $\overset{1}{\uparrow} \overset{8}{\uparrow} \overset{2}{\uparrow} \Rightarrow 1800 \text{ ohm} = 1.8 \text{ kohm}$
Indicates number of zeros after effective number.
2-digit effective number.
- Units: ohm
- $\overset{1}{\uparrow} \overset{R}{\uparrow} \overset{2}{\uparrow} \Rightarrow 1.2 \text{ ohm}$
1-digit effective number.
2-digit effective number, decimal point indicated by R.
- Units: ohm

● **Capacitors**

Ex.: **CE 04W 1H 2R2 M BP**

Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others
CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CO : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% -20% P : +100% -0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For change and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming		

* **Capacity (electrolyte only)**

- $\overset{2}{\uparrow} \overset{2}{\uparrow} \overset{2}{\uparrow} \Rightarrow 2200 \mu\text{F}$
Indicates number of zeros after effective number.
2-digit effective number.
- Units: μF .
- $\overset{2}{\uparrow} \overset{R}{\uparrow} \overset{2}{\uparrow} \Rightarrow 2.2 \mu\text{F}$
1-digit effective number.
2-digit effective number, decimal point indicated by R.
- Units: μF .
- * **Capacity (except electrolyte)**
- $\overset{2}{\uparrow} \overset{2}{\uparrow} \overset{2}{\uparrow} \Rightarrow 2200 \text{pF} = 0.0022 \mu\text{F}$
Indicates number of zeros after effective number.
(More than 2) 2-digit effective number.
- Units: pF.
- $\overset{2}{\uparrow} \overset{2}{\uparrow} \overset{1}{\uparrow} \Rightarrow 220 \text{pF}$
(0 or 1) Indicates number of zeros after effective number.
2-digit effective number.
- Units: pF.

When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

部品表について

- nsp 印の部品は常時在庫していませんので供給に長時間を要することがあります。
場合によっては、供給をお断りすることがあります。
- 部品を発注する際は特に数字の "1" と英字の "I" との区別をはっきり記入してください。
- 部品番号を表示していない部品は供給できません。
- \triangle 印の部品は安全上重要な部品です。交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。
- ★印のついている部品は分解図中には記載していません。
- 汎用カーボン抵抗器は記載していません。定数は回路図を参照願います。
- 汎用カーボンチップ抵抗器は記載していません。定数は回路図を参照願います。
- 部品表の抵抗器、コンデンサの品名記号の読み方は表を参照してください。

● **抵抗器**

例) **RN 14K 2E 182 G FR**

RN	14K	2E	182	G	FR
種類	形状特性	電力	抵抗値	許容差	その他
RD : カーボン RC : 固定体 RS : 金属系皮膜 RW : 巻線 RN : 金属皮膜 RK : 金属混合体	2B : 1/8 W 2E : 1/4 W 2H : 1/2 W 3A : 1 W 3D : 2 W 3F : 3 W 3H : 5 W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : 耐パルス形 NL : 低雑音形 NB : 不燃形 FR : ヒューズ抵抗 F : リード線成形		

- * 抵抗値
- $\overset{18}{\uparrow} \overset{2}{\uparrow} \Rightarrow 1800 \Omega = 1.8 \text{ k}\Omega$
有効数字につづく0の数を表わす。
2桁の有効数字を表わす。
- $\overset{1R}{\uparrow} \overset{2}{\uparrow} \Rightarrow 1.2 \Omega$
1桁の有効数字を表わす。
2桁の有効数字で小数点はRで表わす。
単位は Ω

● **コンデンサ**

例) **CE 04W 1H 2R2 M BP**

CE	04W	1H	2R2	M	BP
種類	形状特性	耐圧	容量	許容差	その他
CE : アルミ箔電解 CA : アルミ固体電解 CS : タンタル電解 CQ : フィルム CK : セラミック CC : セラミック CP : オイル CM : マイカ CF : メタライズド CH : メタライズド	0J : 6.3 V 1A : 10 V 1C : 16 V 1E : 25 V 1V : 35 V 1H : 50 V 2A : 100 V 2B : 125 V 2C : 160 V 2D : 200 V 2E : 250 V 2H : 500 V 2J : 630 V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% -20% P : +100% -0% C : ±0.25pF D : ±0.5pF = : その他	HS : 高安定形 BP : 無極性形 HR : 耐リップル形 DL : 充放電対策用 HF : 高周波保証用 U : UL 部品 C : CSA 部品 W : UL-CSA 部品 F : リード線成形		

* 容量値

● 電解コンデンサの場合

- $\overset{22}{\uparrow} \overset{2}{\uparrow} \Rightarrow 2200 \mu\text{F}$
有効数字につづく0の数を表わす。
2桁の有効数字を表わす。
単位は μF
- $\overset{2R}{\uparrow} \overset{2}{\uparrow} \Rightarrow 2.2 \mu\text{F}$
1桁の有効数字を表わす。
2桁の有効数字で小数点はRで表わす。
単位は μF

● 電解コンデンサ以外の場合

- $\overset{22}{\uparrow} \overset{2}{\uparrow} \Rightarrow 2200 \text{pF} = 0.0022 \mu\text{F}$
有効数字につづく0の数を表わす。
(0の数が2以上の場合)
2桁の有効数字を表わす。
単位はpF
- $\overset{22}{\uparrow} \overset{1}{\uparrow} \Rightarrow 220 \text{pF}$
有効数字につづく0の数を表わす。
(0の数が0または1の場合)
2桁の有効数字を表わす。
単位はpF

● 耐圧を交流で表示する場合は、耐圧表示の次に「AC」を表示します。

PARTS LIST OF P.W.B. UNIT

*本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

* "nsp" 印の部品は常時在庫していませんので供給に長時間を要することがあります。場合によっては、供給をお断りする場合があります。

* Part indicated with the mark "nsp" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.

1U-3787 B MAIN P.W.B. UNIT ASSY

Ref. No.	nsp	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
IC201		00D 262 3657 906	LC72722PM-TLM-E			
IC202		00D 263 1179 049	NJM7812FA(SS)-#4MS			
IC301		00D 262 3555 901	SA5532ADR			
IC302		00D 263 1074 908	OP275GSR +C			
IC303		00D 263 0896 909	NJM2068MD-TE1 +C			
IC304		00D 263 1071 901	OPA2134UA +C			
IC305		00D 263 0995 004	NJM4556AD +T			
IC306		00D 262 3168 903	TC94A32F +C			
IC307		00D 262 2616 003	TC9184AP			
IC401		00D 263 0244 001	NJM082D			
IC501		00D GEN 8527	PROGRAM WRITING SUB	M3062LFGPGP		*
IC502		00D 263 1078 904	BA05FP +C			
IC503		00D 499 0303 004	GP1UM271XK			
IC504		00D 262 3410 907	TC74VHCT08AFT			
IC505		00D 262 3498 903	BR93L86RFVM-WTR			
IC601		00D 263 1079 903	BA033FP +C			
IC602		00D 262 3488 900	TC74LCX08FT			
IC701		00D 263 1071 901	OPA2134UA +C			
IC702		00D 264 0001 001	DA428440E-E			*
TR201-209		00D 269 0144 905	DTC114YK-T146 +C			
TR211,212		00D 269 0066 902	DTC323TKT96 +C			
TR213		00D 269 0086 908	DTA114TKT96 +C			
TR214,215		00D 269 0082 902	DTC114EKT96 +C			
TR216		00D 273 0384 900	2SC2412KT96(S) +C			
TR217		00D 272 0161 900	2SB1412TL(PQR) +C			
TR218		00D 269 0082 902	DTC114EKT96 +C			
TR401-404		00D 275 0038 045	2SK369 (BL)/(GR)-C			
TR503,504		00D 273 0384 900	2SC2412KT96(S) +C			
TR505		00D 272 0161 900	2SB1412TL(PQR) +C			
TR506		00D 269 0082 902	DTC114EKT96 +C			
TR508		00D 269 0083 901	DTA114EKT96 +C			
TR509		00D 269 0082 902	DTC114EKT96 +C			
TR510		00D 273 0384 900	2SC2412KT96(S) +C			
TR511		00D 271 0238 908	2SA1037KT146S +C			
TR512,513		00D 273 0384 900	2SC2412KT96(S) +C			
TR514		00D 271 0238 908	2SA1037KT146S +C			
TR515		00D 273 0384 900	2SC2412KT96(S) +C			
TR516		00D 269 0054 901	DTC144EKT96 +C			
TR517,518		00D 273 0384 900	2SC2412KT96(S) +C			
TR601		00D 273 0463 902	2SC4672T100PQ +C			
TR603,604		00D 269 0088 906	DTC114TKT96 +C			
TR701		00D 273 0423 007	2SC4793-Y			
TR702		00D 271 0272 003	2SA1837-Y			
TR703,704		00D 275 0060 903	2SK-170BL(TPE2)			
TR705		00D 273 0458 904	KTC3200-BL-AT/P			
TR706		00D 271 0301 903	KTA1268-BL-AT/P			
TR707		00D 275 0042 905	2SK373(Y)TPE2			
TR708		00D 273 0423 007	2SC4793-Y			
TR709		00D 269 0144 905	DTC114YK-T146 +C			
D201-209		00D 276 0432 903	1SS270A TE (TAPE)			


Ref. No.	nsp	Part No.	Part Name	Remarks	Q'ty	New
D401,402		00D 276 0432 903	1SS270A TE (TAPE)			
D501,502		00D 276 0704 903	1SR35-400A(T93X)			
D503-505		00D 276 0794 900	KDS160-RTK/P			
D506-508		00D 276 0833 900	ESD PROTECTOR(6802)			
D509-514		00D 276 0794 900	KDS160-RTK/P			
D515		00D 276 0704 903	1SR35-400A(T93X)			
D516,517		00D 276 0794 900	KDS160-RTK/P			
D601-603		00D 276 0796 908	1SR139-400T-31			
D701		00D 276 0432 903	1SS270A TE (TAPE)			
ZD501		00D 276 0634 905	MTZJ3.3AT77			
ZD502		00D 276 0643 996	MTZJ5.6A T77			
ZD601,602		00D 276 0645 907	MTZJ18A T77			
ZD701,702		00D 276 0644 995	MTZJ16A T77			
ZD703		00D 276 0471 906	HZS11B-1TD			
LD602		00D 393 9656 001	SLI343DU3F (ORG)			
LD603		00D 393 9667 003	SLA-360LT3F(XE)			*
PH701,702		00D 279 0052 007	NTPAD8R0LDNB0			*
FL601		00D 393 8093 005	FL TUBE(8BT258GINK)			*
RESISTORS GROUP						
R361,362		00D 244 2051 961	RS14B3A101JNBST(S)			
R363,364		00D 244 2051 974	RS14B3A102JNBST(S)			
R365-368		00D 244 2052 928	RS14B3A470JNBST(S)			
R539		00D 244 2051 961	RS14B3A101JNBST(S)			
R547,548		00D 241 2387 908	RD14B2E010JNBST			
R601		00D 241 2387 908	RD14B2E010JNBST			
R620,621		00D 241 2314 049	RD14B2E100JNBF			
R710,711		00D 241 2315 912	RD14B2E100GFRST			
R718		00D 241 2381 946	RD14B2E472JNBST			
R723		00D 241 2381 946	RD14B2E472JNBST			
R726		00D 241 2376 964	RD14B2E470JNBST			
R728,729		00D 243 2095 018	RW99A4A4R7K			*
R732		00D 244 2051 961	RS14B3A101JNBST(S)			
R737,738		00D 243 2095 021	RW99A4A202K			*
CAPACITORS GROUP						
⚠ C101		00D 253 8022 707	CK45F2EAC103MC			
C201,202		00D 254 4573 994	CE04W1H220MT(RA3)			
C203		00D 254 4703 751	CE04W1H220MC(RFS#A)			
C204-208		00D 254 4573 994	CE04W1H220MT(RA3)			
C209		00D 254 4703 751	CE04W1H220MC(RFS#A)			
C221-225	nsp	00D 257 0509 929	CK73B1H102KT +1608			
C227,228	nsp	00D 257 0509 929	CK73B1H102KT +1608			
C230	nsp	00D 257 0506 951	CC73CH1H101JT +1608			
C233		00D 254 4573 981	CE04W1H100MT(RA3)			
C234		00D 254 4696 981	CE04W1H100MT(R2A)			
C235		00D 254 4696 949	CE04W1H010MT(R2A)			
C236	nsp	00D 257 0516 954	CK73B1E104KT +1608			
C237	nsp	00D 257 0507 976	CC73CH1H331JT +1608			
C238	nsp	00D 257 0508 933	CC73CH1H561JT +1608			
C239,240	nsp	00D 257 0504 908	CC73CH1H220JT +1608			
C241,242		00D 254 4702 956	CE04W1H100MT(RFS#A)			
C301,302		00D 255 4254 915	CQ93P2A102JT(NH2)			
C305,306		00D 254 4703 751	CE04W1H220MC(RFS#A)			
C307-310		00D 254 4702 956	CE04W1H100MT(RFS#A)			


Ref. No.	nsp	Part No.	Part Name	Remarks	Q'ty	New
C311,312		00D 254 4777 716	CE04W1H470MC(RGO#A)			*
C313,314		00D 254 4702 943	CE04W1H4R7MT(RFS#A)			
C315,316		00D 255 4250 964	CQ93P2A330JT(NH2)			
C317-319	nsp	00D 257 0509 929	CK73B1H102KT +1608			
C321,322		00D 254 4573 981	CE04W1H100MT(RA3)			
C323,324		00D 254 4573 965	CE04W1H3R3MT(RA3)			
C325,326		00D 255 4251 976	CQ93P2A101JT(NH2)			
C327,328		00D 254 4573 978	CE04W1H4R7MT(RA3)			
C329,330		00D 255 1265 923	CQ93M1H822JT(B)			
C331,332		00D 256 1058 942	CF93A1H563JT (JL)			
C333,334		00D 255 1264 937	CQ93M1H182JT(B)			
C335,336		00D 255 1265 949	CQ93M1H123JT(B)			
C337,338		00D 254 4573 978	CE04W1H4R7MT(RA3)			
C339,340		00D 254 4573 994	CE04W1H220MT(RA3)			
C341,342		00D 254 4702 956	CE04W1H100MT(RFS#A)			
C343	nsp	00D 257 0509 929	CK73B1H102KT +1608			
C355,356		00D 254 4569 924	CE04W1E101MT(RA3)			
C357,358		00D 255 4252 959	CQ93P2A221JT(NH2)			
C359		00D 255 4254 957	CQ93P2A152JT(NH2)			
C403,404		00D 255 4252 917	CQ93P2A151JT(NH2)			
C405,406		00D 255 4254 915	CQ93P2A102JT(NH2)			
C409,410		00D 255 4255 930	CQ93P2A332JT(NH2)			
C411-414		00D 254 4699 904	CE04W1E101MT(R2A)			
C415,416		00D 254 4696 981	CE04W1H100MT(R2A)			
C417,418		00D 255 4254 931	CQ93P2A122JT(NH2)			
C419,420		00D 255 4257 912	CQ93P2A183JT(NH2)			
C421,422		00D 255 4259 716	CQ93P2A683JFC(NH2)			
C423,424		00D 255 4254 915	CQ93P2A102JT(NH2)			
C425,426		00D 254 4699 904	CE04W1E101MT(R2A)			
C427,428		00D 254 4702 956	CE04W1H100MT(RFS#A)			
C429		00D 255 4256 955	CQ93P2A103JT(NH2)			
C430		00D 257 0505 910	CC73CH1H152JT +1608			
C501		00D 254 4696 981	CE04W1H100MT(R2A)			
C502,503	nsp	00D 257 0509 929	CK73B1H102KT +1608			
C504,505	nsp	00D 257 0506 951	CC73CH1H101JT +1608			
C506	nsp	00D 257 0501 901	CK73B1H103KT (1608) +1608			
C511		00D 255 1279 951	CQ93M1H104JT(B)			
C512		00D 254 4696 978	CE04W1H4R7MT(R2A)			
C513,514	nsp	00D 257 0501 901	CK73B1H103KT (1608) +1608			
C515	nsp	00D 257 0509 929	CK73B1H102KT +1608			
C516		00D 254 4789 704	CE04W1A332MC(RA3)			
C517		00D 254 4577 958	CE04W1C221MT(RA3)			
C518	nsp	00D 257 0509 929	CK73B1H102KT +1608			
C520	nsp	00D 257 0516 954	CK73B1E104KT +1608			
C521		00D 254 4577 961	CE04W1C331MT(RA3)			
C522	nsp	00D 257 0516 954	CK73B1E104KT +1608			
C523		00D 254 4577 961	CE04W1C331MT(RA3)			
C524		00D 254 4699 904	CE04W1E101MT(R2A)			
C525		00D 254 4703 777	CE04W1H470MC(RFS#A)			
C526		00D 254 4696 936	CE04W1HR47MT(R2A)			
C530		00D 257 3012 921	CF73=1H103JT(ECHUB5)+3216			
C531	nsp	00D 257 0509 929	CK73B1H102KT +1608			
C532		00D 254 4696 981	CE04W1H100MT(R2A)			
C533,534	nsp	00D 257 0516 954	CK73B1E104KT +1608			
C535	nsp	00D 257 0509 929	CK73B1H102KT +1608			
C536		00D 257 0505 910	CC73CH1H152JT +1608			
C542		00D 254 4574 919	CE04W1H470MT(RA3)			
C543		00D 254 4573 978	CE04W1H4R7MT(RA3)			
C601		00D 254 4702 956	CE04W1H100MT(RFS#A)			
C602		00D 254 4703 777	CE04W1H470MC(RFS#A)			
C611,612	nsp	00D 257 0516 954	CK73B1E104KT +1608			

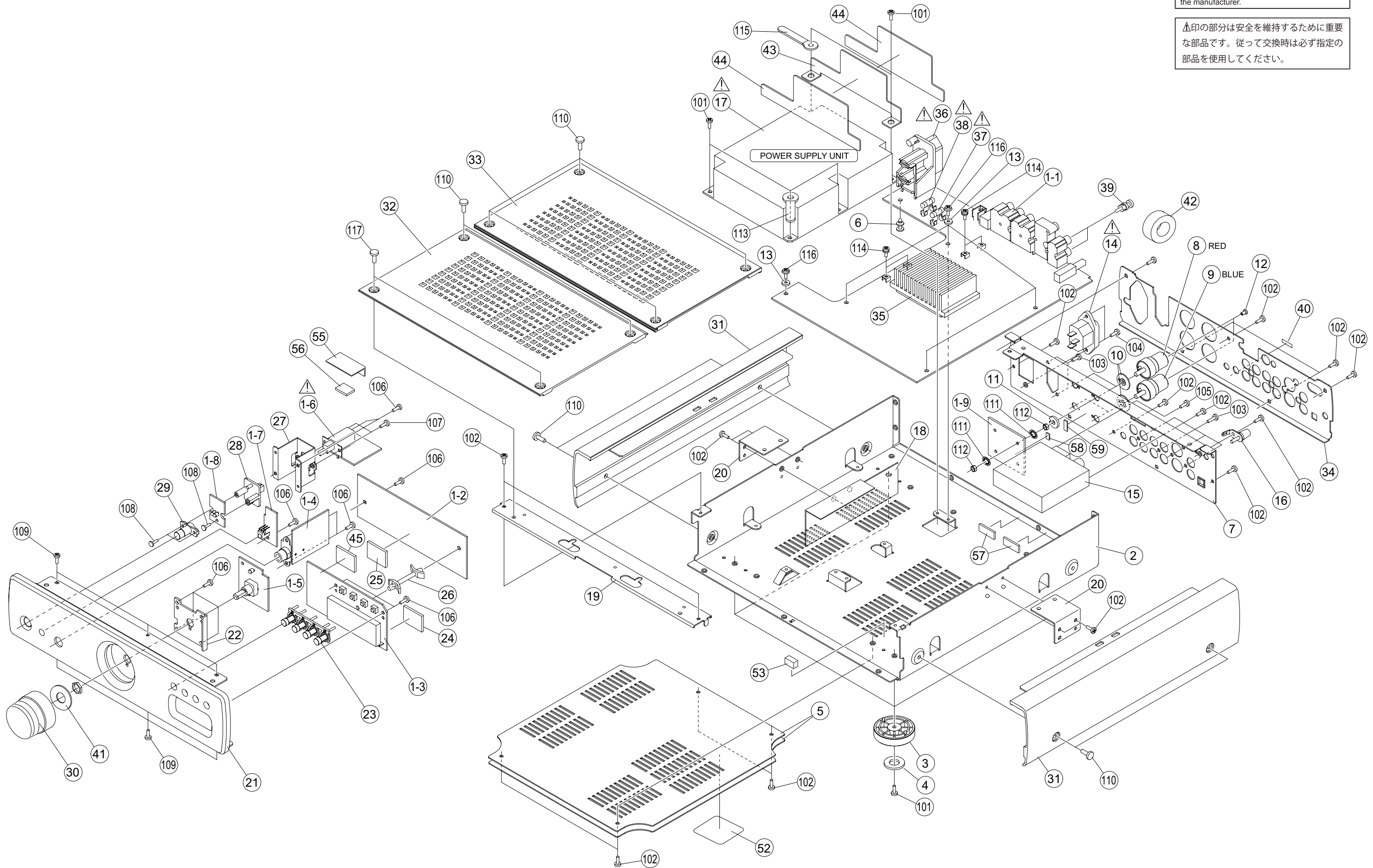
Ref. No.	nsp	Part No.	Part Name	Remarks	Q'ty	New
C613		00D 254 4574 922	CE04W1H101MT(RA3)			
C614		00D 254 4699 904	CE04W1E101MT(R2A)			
C615-618	nsp	00D 257 0506 951	CC73CH1H101JT +1608			
C619		00D 254 4699 904	CE04W1E101MT(R2A)			
C620,621	nsp	00D 257 0516 954	CK73B1E104KT +1608			
C631,632	nsp	00D 257 0516 954	CK73B1E104KT +1608			
C701,702		00D 254 4774 706	CE04W1E101MF(RFS#A)			
C705,706		00D 254 4702 956	CE04W1H100MT(RFS#A)			
C707,708		00D 255 4257 938	CQ93P2A223JT(NH2)			
C709,710		00D 254 4703 777	CE04W1H470MC(RFS#A)			
C711,712		00D 254 4777 716	CE04W1H470MC(RGO#A)			*
C713-716		00D 255 6188 005	CQ09S2B103J(PPSC)			
C717,718		00D 254 6266 005	CE04W1J822M(DL)			*
C719-724		00D 257 1022 900	CK73B2A104KT-3216			*
C725,726		00D 256 1069 012	CF93A2E394K(DTDZ)			*
C727		00D 257 0505 910	CC73CH1H152JT +1608			
C728,729		00D 255 6188 005	CQ09S2B103J(PPSC)			
C731		00D 254 4702 956	CE04W1H100MT(RFS#A)			
C732,733		00D 256 1069 012	CF93A2E394K(DTDZ)			*
C734		00D 254 4703 777	CE04W1H470MC(RFS#A)			
C735,736		00D 255 4254 999	CQ93P2A222JT(NH2)			
C739,740		00D 255 4250 948	CQ93P2A220JT (NH2)			
C751-761		00D 257 0043 919	CK73U2J2E222JT(2125)			
C763,764		00D 255 4252 959	CQ93P2A221JT(NH2)	S.No. 1 ~ 200		
C763,764		00D 257 3010 949	CF73=1H221JT(ECHUB5)	S.No. 201 ~		
C765,766		00D 255 4254 915	CQ93P2A102JT(NH2)	S.No. 1 ~ 200		
C765,766		00D 257 3011 919	CF73=1H102JT(ECHUB5)	S.No. 201 ~		
OTHERS PARTS GROUP						
CW034		00D 203 5399 001	3P SCN-SCN CON.CORD			*
CX021	nsp	00D 205 1093 006	2P VH CONNECTOR BASA			
CX022	nsp	00D 205 0581 069	2P VH CON BASE (Red)			
CX023	nsp	00D 205 0581 001	2P VH CON BASE (White)			
CX031	nsp	00D 205 0653 036	3P VH CON.BASE			
CX032	nsp	00D 205 0233 032	3P EH CONNECTOR BASE			
CX033	nsp	00D 205 0355 033	3P KR CON BASE(L)			
CX041	nsp	00D 205 0233 045	4P EH CONNECTOR BASE			
CX051	nsp	00D 205 0233 058	5P EH CONNECTOR BASE			
CX052	nsp	00D 205 0343 058	5P CONN.BASE(KR-PH)			
CX061	nsp	00D 205 0355 062	6P KR CON BASE(L)			
CX081	nsp	00D 205 0343 087	8P CONN.BASE(KR-PH)			
CX091	nsp	00D 205 0343 090	9P CONN.BASE(KR-PH)			
CX092	nsp	00D 205 0233 090	9P EH CONNECTOR BASE			
CX111	nsp	00D 205 0375 013	11P CON.BASE(KR-PH)			
CX151		00D 205 0736 076	15P FFC CON.BASE			
CX251		00D 205 1316 000	25P FFC BASE(9610S)Y			
CX291		00D 205 1260 046	29P FFC BASE (9610SA)			
CY022	nsp	00D 205 0581 069	2P VH CON BASE (Red)			
CY033	nsp	00D 205 0355 033	3P KR CON BASE(L)			
CY052	nsp	00D 205 0343 058	5P CONN.BASE(KR-PH)			
CY061	nsp	00D 205 0355 062	6P KR CON BASE(L)			
CY091	nsp	00D 205 0355 091	9P KR CON BASE(L)			
CY111	nsp	00D 205 0375 013	11P CON.BASE(KR-PH)			
CY251		00D 205 1316 000	25P FFC BASE(9610S)Y			
CY291		00D 205 1260 046	29P FFC BASE (9610SA)			
F101		00D 206 1100 060	FUSE 4A(HT N5)			
F101	nsp	00D 513 4190 001	FUSE LABEL(T4AH)			

	Ref. No.	nsp	Part No.	Part Name	Remarks	Q'ty	New
!	F108		00D 206 1015 032	FUSE (2.5A)			
	F108	nsp	00D 513 3730 048	FUSE LABEL(T2.5AL)			
	FB701,702	nsp	00D 247 0018 905	RM73B--0R0KT +2125			
	FB703	nsp	00D 247 2018 903	RM73B--0R0KT +1608			
	FF101	nsp	00D 202 0040 909	FUSE CLIP(TAPE)			
	FF108	nsp	00D 202 0040 909	FUSE CLIP(TAPE)			
	FH101	nsp	00D 202 0040 909	FUSE CLIP(TAPE)			
	FH108	nsp	00D 202 0040 909	FUSE CLIP(TAPE)			
	JK201		00D 204 8531 018	2P PIN JACK (C-GND)			
	JK202		00D 204 8549 000	2P PIN JACK(18MM)			
!	JK203,204		00D 204 8530 019	4P PIN JACK			
	JK301		00D 204 8480 004	HEAD PHONE JACK(SW)			*
	JK501		00D 204 8732 008	H/P JACK(D3.5-SW)			
	JK703		00D 203 3961 004	1P AC OUTLET(E2)			
	L701,702		115 010 0024 00S	#C3B-A0376			*
	RL201-209		00M LY2 0120 620	ED2-12NU NEC 12V RELAY			
	RL702		00D 214 0195 006	RELAY FTR-F1			
!	S101		00D 212 4728 004	1P PUSH SWITCH			
	S102		00D 212 1176 002	POWER SWITCH (TV-5)			
	S601-604		00D 212 5611 903	TACT SWITCH(TAPE H5)			
	S605		00D 212 0526 006	ROTARY ENCODER(V)			
	ST101-105	nsp	00D 205 0452 017	STYLE PIN			
	W301	nsp	00D 203 0535 051	1P CONTACT ASSY			
	W401	nsp	00D 001 0070 033	VINYL WIRE			
	W402	nsp	00D 001 0070 020	VINYL WIRE			
	W501	nsp	00D 205 1034 007	M3 SCREW TERMINAL			
	W701,702	nsp	00D 205 0864 003	M3 SCREW TERMINAL			
	W705,706	nsp	00D 205 0864 003	M3 SCREW TERMINAL			
	W707,708	nsp	00D 203 0765 009	1P CON.ASSY			
	W709,710	nsp	00D 203 0765 012	1P CON.ASSY			
	X201		00D 399 0178 007	X-TAL(4.332MHZ)			
	X501		00D 399 0805 914	CSTLS16M0X51-A0			
		nsp	00D 417 0706 007	RADIATOR (PUE36)	TR708		*
		nsp	00D 417 0704 009	RADIATOR	IC702		*
		nsp	ORD 471 3304 028	3X8 CBS-B			
		nsp	00D 461 0862 045	FL SPACER (T=5)			
		nsp	00D 461 0415 007	RUBBER SHEET			
		nsp	00D 415 0299 000	CONDENSER COVER	C101		

EXPLODED VIEW

WARNING:
Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

印の部分は安全を維持するために重要な部品です。従って交換時は必ず指定の部品を使用してください。



PARTS LIST OF EXPLODED VIEW

* 本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

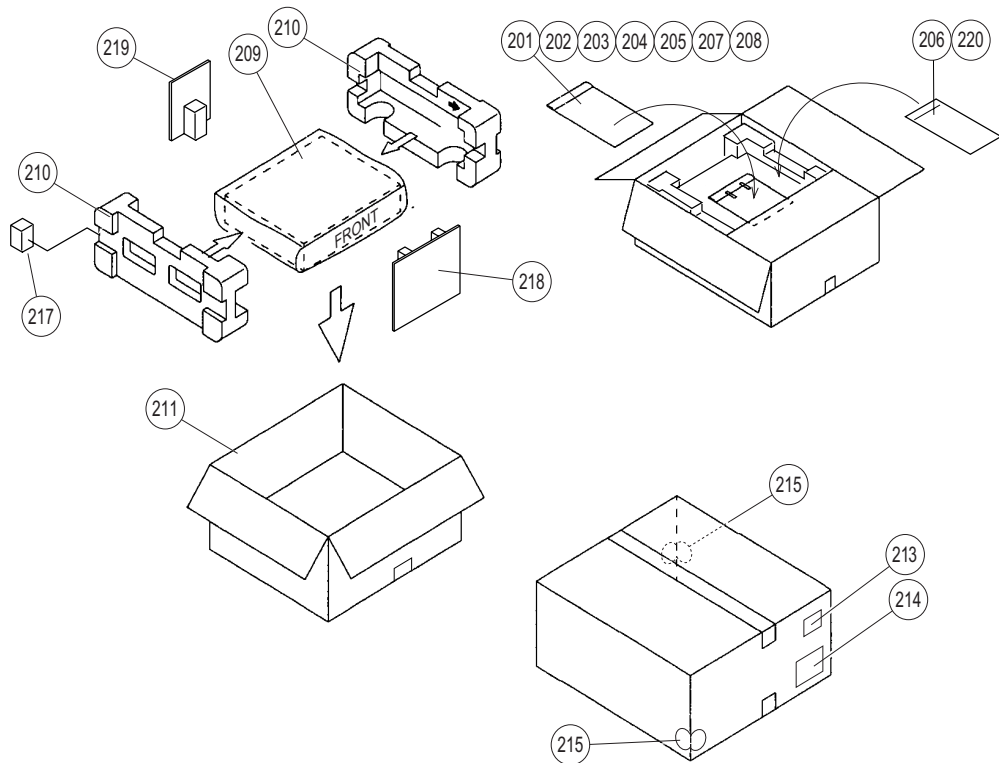
* "nsp" 印の部品は常時在庫していませんので供給に長時間を要することがあります。場合によっては、供給をお断りする場合があります。

* Part indicated with the mark "nsp" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.

	Ref. No.	nsp	Part No.	Part Name	Remarks	Q'ty	New
	1	nsp	00D 1U- 3787 B	MAIN P.W.B. UNIT ASSY		1	*
	1-1			MAIN UNIT			
	1-2			M-CON UNIT			
	1-3			DISPLAY UNIT			
	1-4			HEAD PHONE UNIT			
	1-5			ENCODER UNIT			
	1-6			P. SW UNIT			
	1-7			R.SENSOR UNIT			
	1-8			LED UNIT			
	1-9			SP TERMINAL UNIT			
	2	nsp	00D 411 2101 000	MAIN CHASSIS		1	*
	3	nsp	00D 104 0352 005	FOOT		4	*
	4	nsp	00D 461 0385 001	RUBBER PAD		4	
	5	nsp	00D 105 1670 103	BOTTOM COVER		2	*
	6	nsp	00D 412 2814 028	CARD SPACER(L=10)		1	
	7	nsp	00D 105 1668 115	BACK PANEL		1	*
	8		00D 205 1409 001	1P SP TERMINAL RED		2	*
	9		00D 205 1410 003	1P SP TERMINAL BLUE		2	*
	10	nsp	00D 462 0185 000	SP WASHER (A)		4	*
	11	nsp	00D 462 0186 009	SP WASHER (B)		4	*
	12	nsp	00D 477 0331 005	PUSH RIVET		4	*
	13	nsp	00D 415 0947 006	BUSH		5	
⚠	14		00D 203 3996 008	AC INLET(2P)		1	
	15		00D 216 0125 001	AM FM TUNER(E2)		1	
⚠	16	nsp	00D 205 1116 006	TERMINAL ASS		1	
	17		00D 399 1081 012	POWER SUPPLY UNIT		1	*
	18	nsp	00D 415 1006 001	INSULATING SHEET		1	*
	19	nsp	00D 412 5336 008	FRONT ANGLE		1	*
	20	nsp	00D 412 5335 009	TOP PANEL BRACKET		2	*
	21		00D 144 2999 215	FRONT PANEL ASSY		1	*
	22	nsp	00D 412 5340 007	VOLUME PLATE		1	*
	23		00D 113 2056 002	FUNCTION KNOB ASSY		1	*
	24	nsp	00D 461 1140 012	PAD		1	
	25	nsp	00D 461 0957 057	RUBBER FOAM		1	
	26	nsp	00D 412 2404 030	PWB HOLDER (WLS-16)		1	
	27	nsp	00D 412 5334 000	POWER KNOB BRACKET		1	*
	28	nsp	00D 113 2053 005	POWER KNOB HOLDER		1	*
	29		00D 113 2054 004	POWER KNOB ASSY		1	*
	30		00D 112 0983 006	KNOB (V) ASSY		1	*
	31		00D 144 2993 101	SIDE PANEL		2	*
	32		00D 144 2994 016	TOP PANEL(F)		1	*
	33		00D 144 2995 015	TOP PANEL(R)		1	*
	34	nsp	00D 105 1669 237	BACK PLATE		1	*
⚠	35	nsp	00D 417 0704 009	RADIATOR	IC702	1	*
⚠	36		00D 203 3961 004	AC OUTLET (E2)		1	
⚠	37		00D 206 1100 060	FUSE 4A(HT N5)	F101	1	
⚠	38		00D 206 1015 032	FUSE (2.5A)	F108	1	
	39	nsp	00D 209 0325 007	SHORT PIN		2	
	40	nsp	00D 513 1581 008	SERIAL NO. SHEET		1	
	41	nsp	00D 461 1288 000	VOLUME SHEET		1	*
	42	nsp	00D 342 0044 009	LOW CUT CORE(TRM25)		1	
	43	nsp	00D 414 1050 009	SHIELD PLATE		1	*
	44	nsp	00D 415 1008 009	INSULATING SHEET		2	*
	45	nsp	00D 461 1182 083	RUBBER SHEET		1	
	★ 46	nsp	00D 125 0097 008	BUTYL TAPE (W50 T2)		-	
	★ 47	nsp	00D 125 0092 016	BUTYL TAPE (W25 T1)		-	
	★ 48	nsp	00D 125 0096 009	NITFLON TAPE (W50)		-	

Ref. No.	nsp	Part No.	Part Name	Remarks	Q'ty	New
★ 49	nsp	00D 125 0096 012	NITFLON TAPE (W25)		-	
★ 50	nsp	00D 125 0075 020	CHUKOH TAPE		-	
★ 51	nsp	00D GEN 6863 -4	RATING SUB ASSY		1	*
52	nsp	00D 513 3286 000	CAUTION LABEL		1	
53	nsp	00D 461 0573 091	RUBBER SHEET		1	
55	nsp	00D 415 1011 009	INSULATING SHEET		2	*
56	nsp	00D 461 0415 007	RUBBER SHEET		1	
57	nsp	00D 461 1209 005	EMI GASKET RFSG050100	30mm	2	
58	nsp	00D 461 1293 008	EMI GASKET RFSG070100	10mm	1	
59	nsp	00D 461 1233 000	EMI GASKET RFSG010100	20mm	1	
★ 61	nsp	00D 203 0765 009	1P CON. ASSY	W701-W707	1	*
★ 62	nsp	00D 203 0765 009	1P CON. ASSY	W702-W708	1	*
★ 63	nsp	00D 203 0765 012	1P CON. ASSY	W703-W709	1	*
★ 64	nsp	00D 203 0765 012	1P CON. ASSY	W704-W710	1	*
★ 65	nsp	00D 203 5177 061	3P VH CON. CORD	CN021	1	
★ 66	nsp	00D 009 0257 025	15P FFC (1.25)	CN151	1	*
★ 67	nsp	00D 204 0378 046	6P KR-KR RIBBON 125	CN061	1	
★ 68	nsp	00D 204 2549 006	9P KR-KR RIBBON 70	CN091	1	
★ 69	nsp	00D 009 0273 025	25P FFC (1.0)	CN251	1	*
★ 70	nsp	00D 203 6639 003	4P EH-EH CON. CORD	CN041	1	*
★ 71	nsp	00D 204 3014 006	9P EH-EH CON.CORD	CN092	1	*
★ 72	nsp	00D 203 4871 025	3P KR-KR RIBBON 90	CN033	1	
★ 73	nsp	00D 203 5294 083	3P VH-VH CON. CORD	CN022	1	*
★ 74	nsp	00D 203 5294 070	3P VH-VH CON. CORD	CN023	1	*
★ 75	nsp	00D 203 5397 003	3P VH-VH CON. CORD	CN031	1	*
★ 76	nsp	00D 203 5398 002	3P EH-EH CON. CORD	CN032	1	*
★ 77	nsp	00D 203 8579 006	5P EH-EH CON. CORD	CN051	1	*
★ 78	nsp	00D 203 8341 001	5P KR-KR RIBBON 70	CN052	1	
★ 79	nsp	00D 204 6811 002	11P PH-PH CON. CORD	CN111	1	*
★ 80	nsp	00D 009 0287 008	29P FFC CABLE(1.0)	CN291	1	*
★ 81	nsp	00D 415 0553 034	UL TUBE D=5.3		2	*
★ 82	nsp	00D 415 0546 096	UL TUBE D=8.3		1	
★ 83	nsp	00D 414 1010 010	ALUMINUM TAPE	100mm	-	
★ 84	nsp	00D 414 1046 000	CUPPER TAPE(W=15)	10mm	-	
★ 85	nsp	00D 414 1010 007	ALUMINUM TAPE	400mm	-	
★ 86	nsp	00D 414 1010 049	ALUMINUM TAPE	120mm	-	
★ 87	nsp	00D 253 8029 739	CK45F2EAC 472MC(KX)	P. SUPPLY UNIT	4	
★ 88	nsp	00D 205 0003 107	3T LUG	P. SUPPLY UNIT	4	
SCREWS						
101	nsp	ORD 473 7002 018	3X8 CBTS (S)-Z		9	
102	nsp	ORD 473 7015 018	3X8 CBTS (S)-B		20	
103	nsp	00D 477 0064 107	FIXING SCREW		7	
104	nsp	ORD 473 7003 017	3X8 CFTS (S)-B		2	
105	nsp	ORD 473 7500 044	3X8 CBTS (P)-B		1	
106	nsp	ORD 473 7531 000	3X8 CPTS(P)-Z		13	
107	nsp	ORD 473 7003 004	3X8 CFTS (S)-Z		2	
108	nsp	ORD 473 7505 007	2.6X8 CBTS (P)-Z		3	
109	nsp	ORD 473 7015 005	3X6 CBTS(S)-B		6	
110	nsp	ORD 471 9058 006	SPECIAL SCREW		10	
111	nsp	ORD 475 3202 009	4 TWB ZN		8	
112	nsp	ORD 475 6008 006	4N		8	
113	nsp	ORD 445 0048 016	CORD HOLDER (L50)		1	
114	nsp	ORD 470 0009 022	3X6 CPS (SW.W) ZNP		4	
115	nsp	ORD 445 0048 003	CORD HOLDER (L76)		1	
116	nsp	ORD 473 8007 083	3X8 CUP SCREW		5	
117	nsp	ORD 471 9058 022	SPECIAL SCREW		2	

PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

* 本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

* "nsp" 印の部品は常時在庫していませんので供給に長時間を要することがあります。場合によっては、供給をお断りする場合があります。


* Part indicated with the mark "nsp" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.

	Ref. No.	nsp	Part No.	Part Name	Remarks	Q'ty	New
	201	nsp	00D 505 0038 030	POLY COVER		1	
	202		00D 511 4597 006	INST. MANUAL (E2)		1	*
	203	nsp	00D 515 0921 801	S.S LIST(EX)		1	
	204		00D 399 1080 000	RC-1060		1	*
	205		-	BATTERY(R03X2)		1	
!	206		00D 206 2215 006	AC CORD-E1/10A/INLET.		1	
	207		00D 231 1152 001	AM LOOP ANTENNA(S)		1	
	208		00D 395 0026 005	FM ANT WIRE		1	
	209	nsp	00D 505 0102 089	STYLEN PAPER		1	
	210	nsp	00D 503 1532 102	CUSHION		2	*
	211	nsp	00D 501 2349 013	CARTON CASE		1	*
	213		-	E2 POS LABEL		1	
	214		-	CONT.CARD(L)SUB ASSY		1	
	215	nsp	00D 513 9111 030	COLOR LABEL		2	
	217	nsp	00D 503 1538 009	CUSHION SPACER (REAR)		1	*
	218	nsp	00D 502 1137 009	PAD (FRONT)		1	*
	219	nsp	00D 502 1141 008	PAD (REAR)		1	*
	220	nsp	00D 505 0038 072	POLY COVER		1	

NOTE FOR SCHEMATIC DIAGRAM

配線図について

1. WARNING:

Parts marked with this symbol  have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

2. CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

3. WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

4. NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM


M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD.

p=MICRO-MICRO FARAD

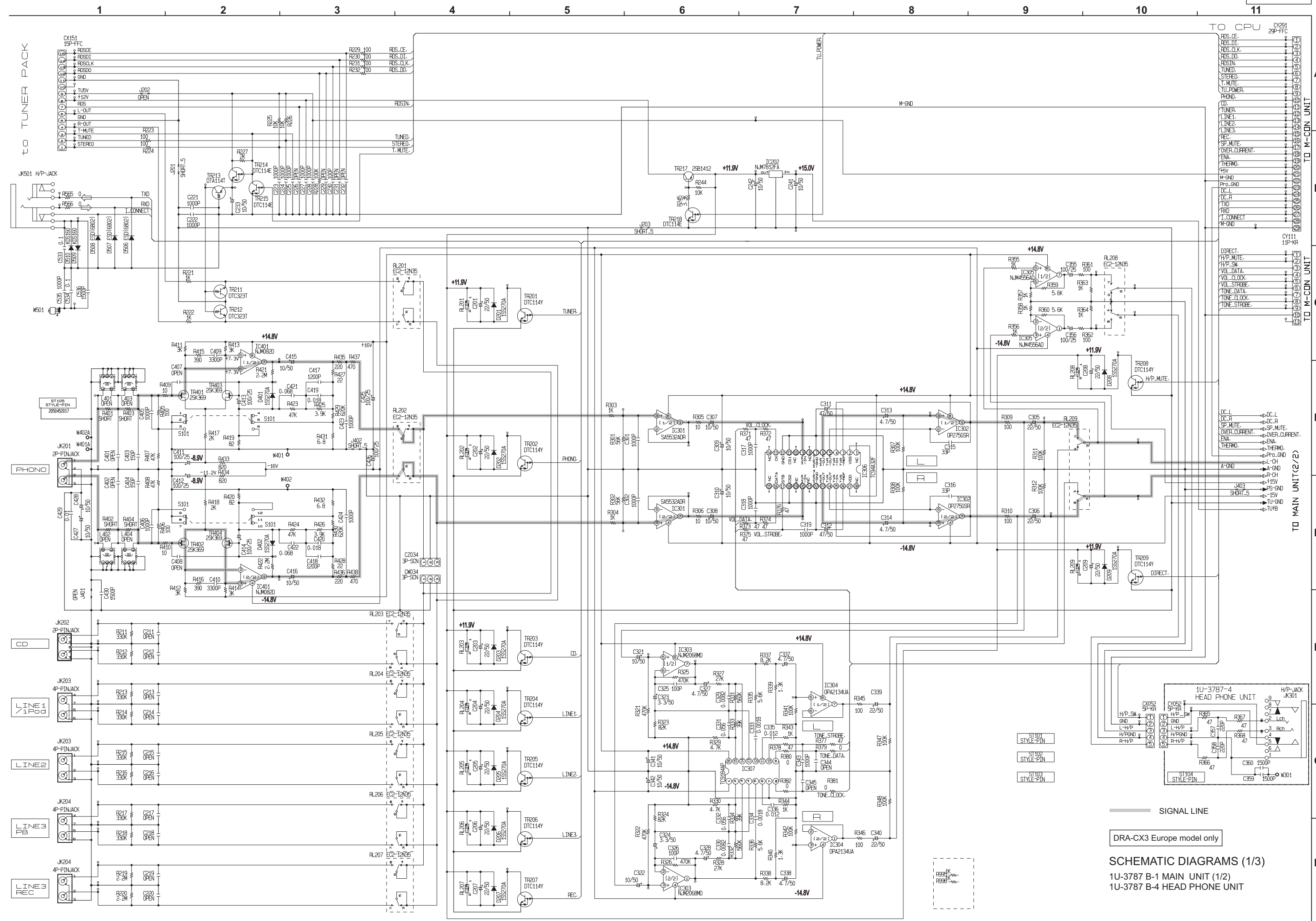
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

 印の部品は安全を維持するために重要な部品です。従って交換時は必ず指定の部品を使用してください。

注)

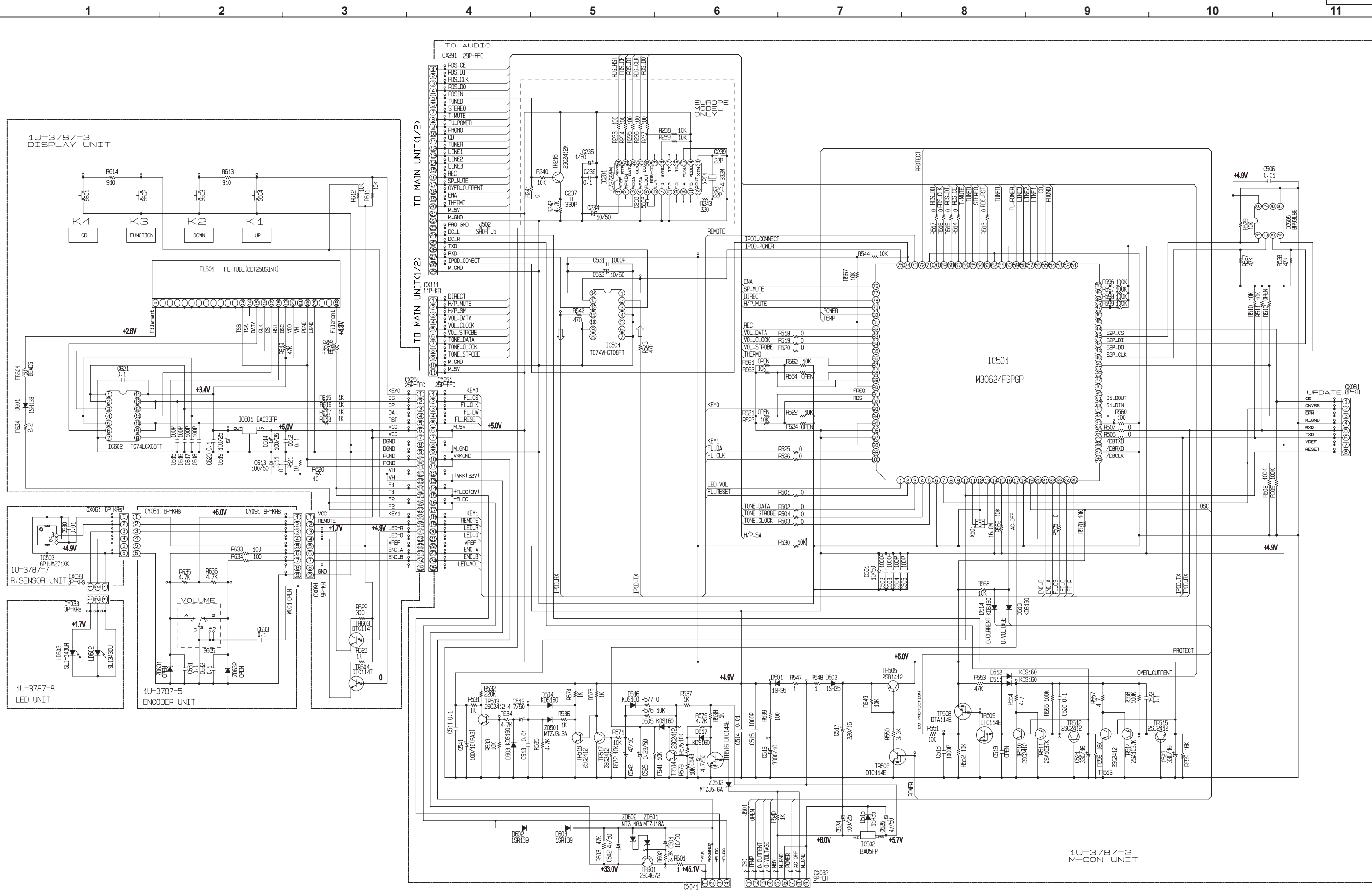
1. 指定なき抵抗値は Ω 、k は $k\Omega$ 、M は $M\Omega$ を示す。
2. 指定なきコンデンサーの値は μF 、p は pF を示す。
3. 各部の電圧は無信号の値を示す。
4. この配線図は基本配線図です。改良等のため変更することがありますのでご了承ください。



— SIGNAL LINE

DRA-CX3 Europe model only

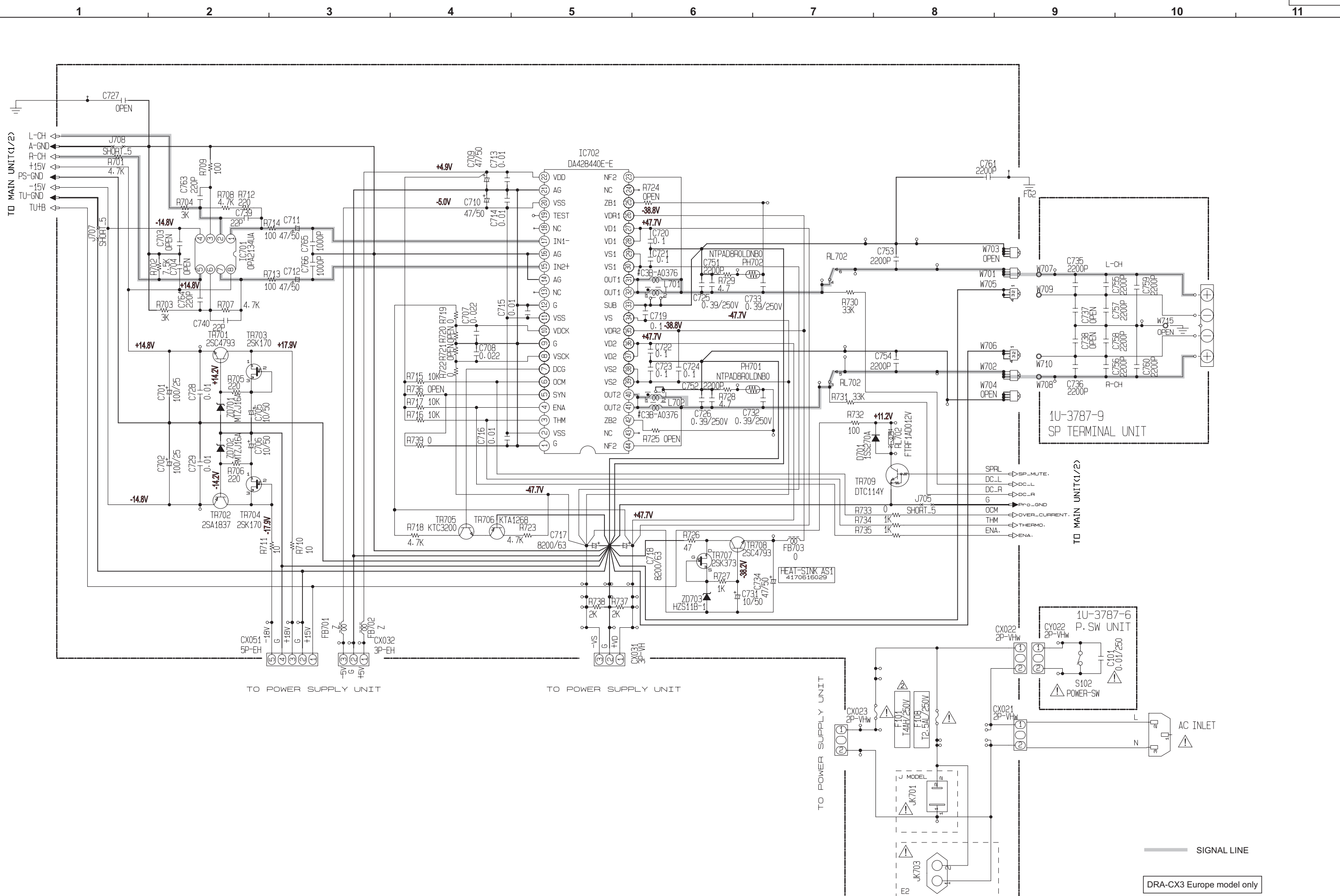
SCHEMATIC DIAGRAMS (1/3)
1U-3787 B-1 MAIN UNIT (1/2)
1U-3787 B-4 HEAD PHONE UNIT



DRA-CX3 Europe model only

SCHEMATIC DIAGRAMS (2/3)

- 1U-3787 B-2 M_CON UNIT
- 1U-3787 B-3 DISPLAY UNIT
- 1U-3787 B-5 ENCODER UNIT
- 1U-3787 B-7 R. SENSOR UNIT
- 1U-3787 B-8 LED UNIT



— SIGNAL LINE

DRA-CX3 Europe model only

SCHEMATIC DIAGRAMS (3/3)

1U-3787 B-1 MAIN UNIT (2/2)
 1U-3787 B-6 P. SW UNIT
 1U-3787 B-9 SP TERMINAL UNIT

DOCUMENTS FOR WEEE

Details of Recycle Parts

* You have to remove the parts that marked "WEEE Mark ◆" when the recycling processing. (Europe model only)

* Part indicated with the mark "★" is not illustrated in the exploded view.

Ref. No.	WEEE Mark	Part Name	Material	Q'ty
1-1	◆	MAIN UNIT	COMPLEX	1
1-2	◆	M-CON UNIT	COMPLEX	1
1-3	◆	DISPLAY UNIT	COMPLEX	1
1-4	◆	HEAD PHONE UNIT	COMPLEX	1
1-5	◆	ENCODER UNIT	COMPLEX	1
1-6	◆	P. SW UNIT	COMPLEX	1
1-7	◆	R. SENSOR UNIT	COMPLEX	1
1-8	◆	LED UNIT	COMPLEX	1
1-9	◆	SP. TERMINAL UNIT	COMPLEX	1
2		MAIN CHASSIS	Steel	1
3		FOOT	ABS	4
4		RUBBER PAD	PUR	4
5		BOTTOM COVER	Steel	2
6		CARD SPACER(L=10)	PA	1
7		BACK PANEL	Steel	1
8		1P SP. TERMINAL RED	COMPLEX	2
9		1P SP. TERMINAL BLUE (This part refers to detailed drawing and disassembles.)	COMPLEX	2
8-1,9-1		TERMINAL BASE B	PC	4
8-2,9-2		TERMINAL BASE A	PC	4
8-3,9-3		SHAFT	Brass	4
8-4,9-4	◆	TERMINAL CAP	COMPLEX	4
10		SP WASHER (A)	ABS	4
11		SP WASHER (B)	POM	4
13		BUSH	PTFE	5
14	◆	AC INLET	COMPLEX	1
15	◆	AM FM TUNER(E2)	COMPLEX	1
16	◆	TERMINAL ASSY	COMPLEX	1
17		POWER SUPPLY UNIT (This part refers to detailed drawing and disassembles.)	COMPLEX	1
17-1	◆	POWER SUPPLY UNIT	COMPLEX	1
17-2		TRANSFORMER (Refer to detailed drawing)	COMPLEX	1
17-3		TRANSFORMER (Refer to detailed drawing)	COMPLEX	1
17-4		RADIATOR	Aluminum	1
17-5		RADIATOR	Aluminum	1
18		INSULATING SHEET	PC	1
19		FRONT ANGLE	Steel	1
20		TOP PANEL BRACKET	Steel	2
21		FRONT PANEL	Aluminum	1
22		VOLUME PLATE	Steel	1
23	◆	FUNCTION KNOB ASSY	COMPLEX	1
24		PAD	CR	1
25		RUBBER FOAM	CR	1
26		PWB HOLDER (WLS-16)	PA	1
27		POWER KNOB BRACKET	Steel	1
28		POWER KNOB HOLDER	ABS	1
29	◆	POWER KNOB ASSY	COMPLEX	1
30	◆	KNOB (V) ASSY	COMPLEX	1
31		SIDE PANEL	Aluminum	2
32		TOP PANEL(F)	Aluminum	1
33		TOP PANEL(R)	Aluminum	1
34		BACK PLATE	Steel	1
35		RADIATOR	Aluminum	1
39	◆	SHORT PIN	COMPLEX	2
40	◆	LOW CUT CORE	COMPLEX	1
41		INNER PANEL (L)	ABS	1
42		INNER PANEL (R)	ABS	1
43		KNOB GUIDE	ABS	1

Ref. No.	WEEE Mark	Part Name	Material	Q'ty
44		WINDOW	PMMA	1
45		LENS(POWER)	PMMA	1
46		REMOCON WINDOW	PMMA	1
47		REMOCON FILTER	PC	1
48	◆	CAPACITOR(CE04W1J822M(DL))	COMPLEX	2
49		NUT	Steel	1
50		SHIELD PLATE	Silicon steel	1
51		INSULATING SHEET	PC	2
52		RUBBER SHEET	CR	1
53	◆	IC702(DA428440E-E)	COMPLEX	1
54		RUBBER SHEET	CR	1
55		INSULATING SHEET	PC	2
56		RUBBER SHEET	CR	1
57	◆	EMI GASKET	COMPLEX	2
58	◆	EMI GASKET	COMPLEX	1
59	◆	EMI GASKET	COMPLEX	1
★ 61		1P CON. ASSY	COMPLEX	1
★ 62		1P CON. ASSY	COMPLEX	1
★ 63		1P CON. ASSY	COMPLEX	1
★ 64		1P CON. ASSY	COMPLEX	1
★ 65		3P VH CON. CORD	COMPLEX	1
★ 66		15P FFC (1.25)	COMPLEX	1
★ 67		6P KR-KR RIBBON 125	COMPLEX	1
★ 68		9P KR-KR RIBBON 70	COMPLEX	1
★ 69		25P FFC (1.0)	COMPLEX	1
★ 70		4P EH-EH CON. CORD	COMPLEX	1
★ 71		9P EH-EH CON.CORD	COMPLEX	1
★ 72		3P KR-KR RIBBON 90	COMPLEX	1
★ 73		3P VH-VH CON. CORD	COMPLEX	1
★ 74		3P VH-VH CON. CORD	COMPLEX	1
★ 75		3P VH-VH CON. CORD	COMPLEX	1
★ 76		3P EH-EH CON. CORD	COMPLEX	1
★ 77		5P EH-EH CON. CORD	COMPLEX	1
★ 78		5P KR-KR RIBBON 70	COMPLEX	1
★ 79		11P PH-PH CON. CORD	COMPLEX	1
★ 80		29P FFC CABLE(1.0)	COMPLEX	1
★ 81		UL TUBE D=5.3	PVC	2
★ 82		UL TUBE D=8.3	PVC	1
★ 83		ALUMINUM TAPE	Alminum	-
★ 84		CUPPER TAPE	Cupper	-
★ 85		ALUMINUM TAPE	Alminum	-
★ 86		ALUMINUM TAPE	Alminum	-
SCREW				
101		3X8 CBTS (S)-Z	Steel	9
102		3X8 CBTS (S)-B	Steel	20
103		FIXING SCREW	Steel	7
104		3X8 CFTS (S)-B	Steel	2
105		3X8 CBTS (P)-B	Steel	1
106		3X8 CPTS(P)-Z	Steel	13
107		3X8 CFTS (S)-Z	Steel	2
108		2.6X8 CBTS (P)-Z	Steel	3
109		3X6 CBTS(S)-B	Steel	6
110		SPECIAL SCREW	Steel	10
111		4 WASHER	Steel	8
112		4 NUT	Steel	8
113	◆	CORD HOLDER (L50)	COMPLEX	1
114		3X6 CPS (SW.W) ZNP	Steel	4
115	◆	CORD HOLDER (L76)	COMPLEX	1
116		3X8 CUP SCREW	Steel	5
117		3X8 CBS-B	Steel	7
118		3 NUT	Steel	2
119		SPECIAL SCREW	Steel	2

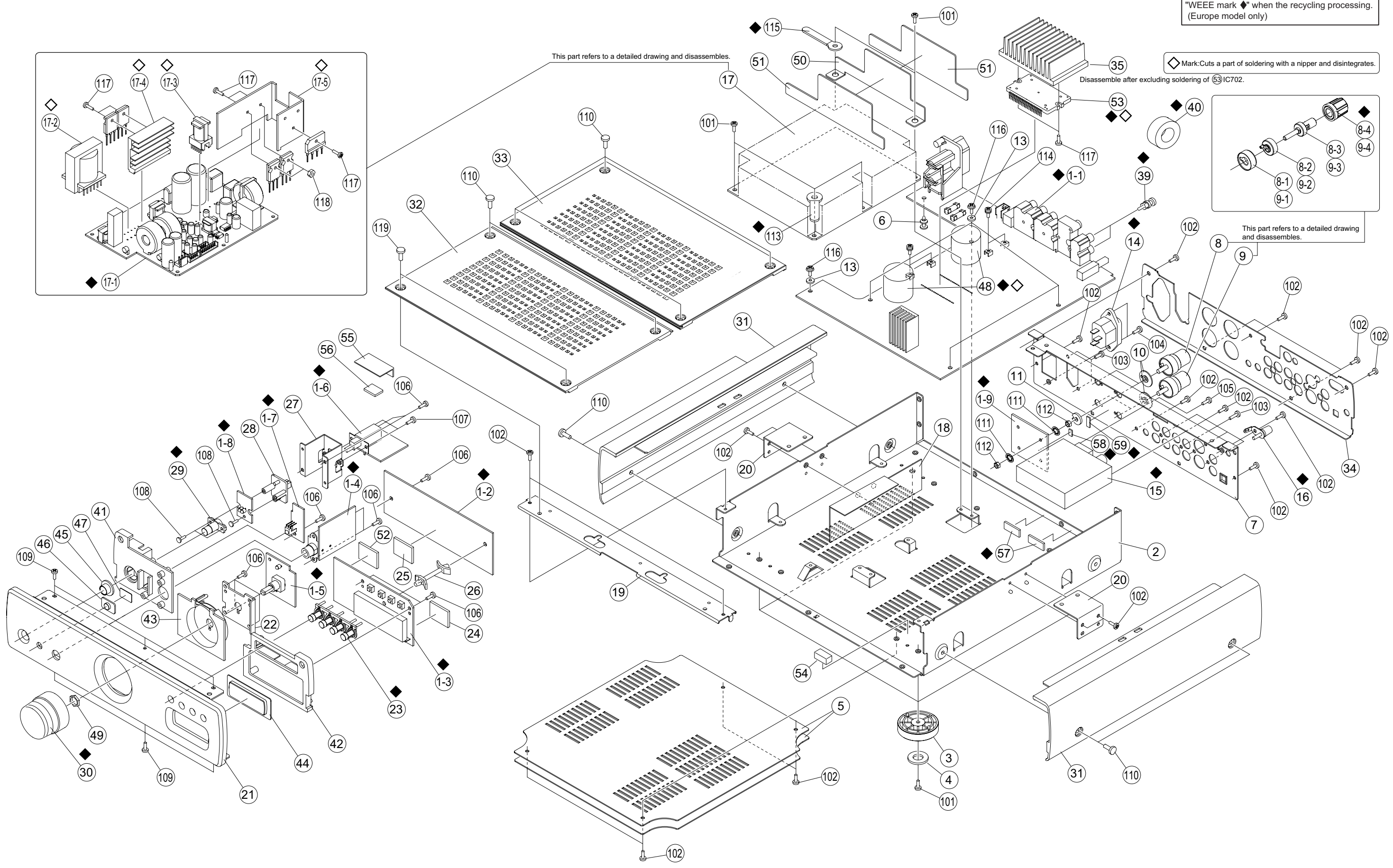
Exploded view for WEEE

You have to remove the parts that marked "WEEE mark ◆" when the recycling processing. (Europe model only)

◆ Mark: Cuts a part of soldering with a nipper and disintegrates. Disassemble after excluding soldering of ⑤ IC702.

This part refers to a detailed drawing and disassembles.

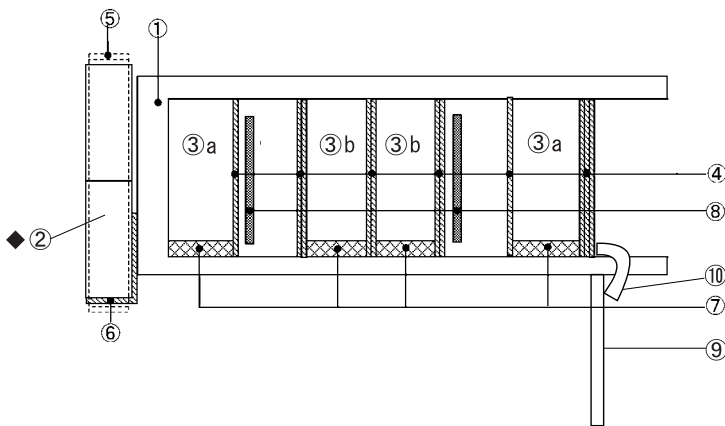
This part refers to a detailed drawing and disassembles.



Details of Recycle parts for Transformer

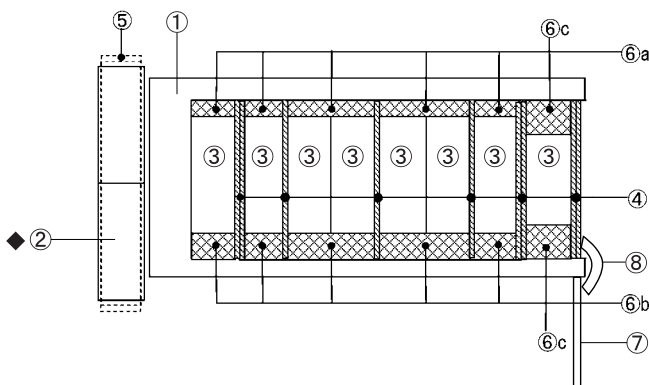
Part No.17-2 : Transformer

You have to remove the parts that marked "WEEE mark ◆" when the recycling processing. (Europe model only)



No.	WEEE Mark	Parts Name	Material
1		BOBBIN	PHENOL(PF)
2	◆	CORE	FERRITE
3a		WIRE	POLYURETHANE COPPER
3b		TRIPLE INSULATION WIRE	POLYESTER AND POLYAMIDE COPPER
4		INSULATING TAPE	POLYESTER(PET)
5		TAPE(CORE HOLD)	POLYESTER(PET)
6		CORE INSULATING TAPE	POLYESTER(PET)
7		BARRIER TAPE	POLYESTER(PET)
8		COPPER TAPE	COPPER
9		PIN	COPPER WIRE
10		TUBE	TEFLON(FEP)

Part No.17-3 : Transformer



No.	WEEE Mark	Parts Name	Material
1		BOBBIN	PHENOL(PF)
2	◆	CORE	FERRITE
3		WIRE	POLYURETHANE COPPER
4		INSULATING TAPE	POLYESTER(PET)
5		TAPE(CORE HOLD)	POLYESTER(PET)
6a		BARRIER TAPE	POLYESTER(PET)
6b		BARRIER TAPE	POLYESTER(PET)
6c		BARRIER TAPE	POLYESTER(PET)
7		PIN	COPPER WIRE
8		TUBE	SILICONE(Si)