Service Manual

74 CD7 /02G

CD-7 FN KGL

Compact disc player

COMPACT disc DIGITAL AUDIO

TABLE OF CONTENTS

Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

marantz®

model CD-7

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SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

Audio Characteristics

Channels ..... 2 channels
Sampling frequency (CD mode) ..... 44.1 kHz
Sampling frequency (D/A mode) ..... 32/44.1/48 kHz
Quantization ..... 16-bit linear/channel
Error correction ... Cross-interleave read solomon code (CIRC)
D/A conversion ..... 1-bit linear/channel
Wow & flutter ..... Precision of quartz

Optical Readout System

Laser ..... AlGaAs semiconductor
Wavelength ..... 780 nm

Frequency Characteristics

Frequency range ..... 2 Hz - 20 kHz
Dynamic range ..... > 98 dB
S/N ratio ..... > 102 dB
Channel separation (1 kHz) ..... > 100 dB
THD (1 kHz) ..... 0.002 %
Analog output
Output level (cinch JACKS) ..... 2.2 V RMS
Output impedance ..... 250 ohms
Digital output
Output level (cinch JACK) ..... 0.5 Vp-p/75 ohms
Output level (optical JACK) ..... -19 dBm
Digital input
Input level (cinch JACK) ..... 0.5 Vp-p/75 ohms
Input level (optical JACK) ..... -19 dBm

Power Supply

Power requirement
K version ..... 110 / 220V AC 50/60 Hz
/02 version ..... 230V AC 50 Hz
Power Consumption ..... 19 W

Cabinet, etc.

Dimensions
Width ..... 454 mm
Height ..... 139 mm
Depth ..... 344 mm
Netweight ..... 16.6 kg
Operating temperatures ..... +5 °C ~ +35 °C
Operating humidity ..... 5 % ~ 90 % (without dew)

Accessories

Remote control unit (RC-7CD) 1
AAA (R03) Batteries 2
Stereo audio cable with cinch pins 1
AC power cord 1

Improvement may result in changes in specifications and design without notice.

オーディオ特性

チャンネル 2チャンネル
周波数特性 ..... 2Hz〜20,000Hz, +0 -1.2dB
ダイナミックレンジ 98dB以上
S/N比 102dB
チャンネルセパレーション 100dB (1kHz)
高調波歪率 0.002% (1kHz)
ワウフラッター ..... 水晶精度
誤り訂正方式 ..... クロス・インターリーブ・リードソロモン・コード (CIRC)
音声出力
アンバランス ..... 2.2V RMSステレオ
バランス ..... 3.8V RMSステレオ
デジタル出力
ピンジャック 0.5Vp-p/75Ω
光出力(角型光コネクター) ..... -19dBm
デジタル入力
ピンジャック 0.5Vp-p/75Ω
光出力(角型光コネクター) ..... -19dBm

光学読み取り方式

レーザー ..... AlGaAs 半導体
波長 780nm

信号方式

サンプリング周波数(CD モード) 44.1kHz
(D/A モード) 32/44.1/48kHz
量子化 ..... 16ビットリニア / チャンネル

電源部

電源 ..... AC 100V 50/60Hz
消費電力 (電気用品取締法) 25W

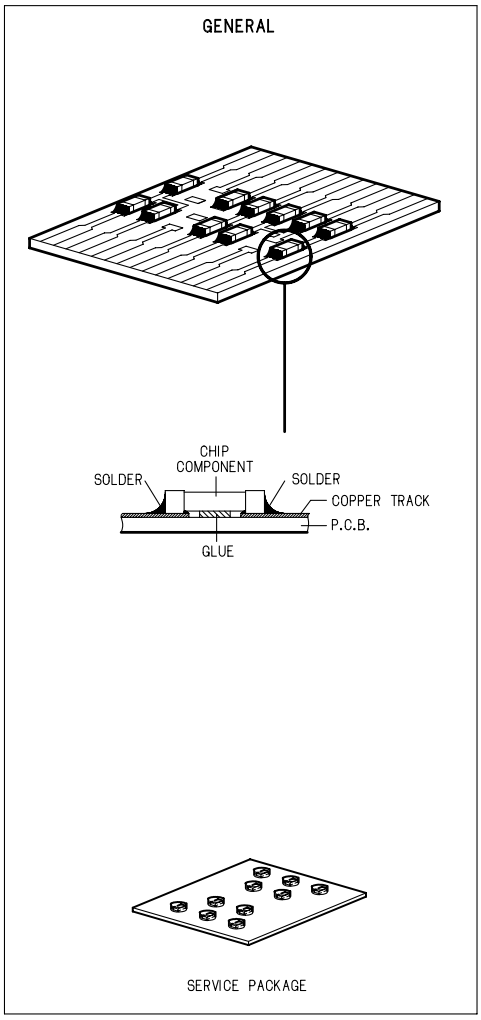
キャビネット・その他

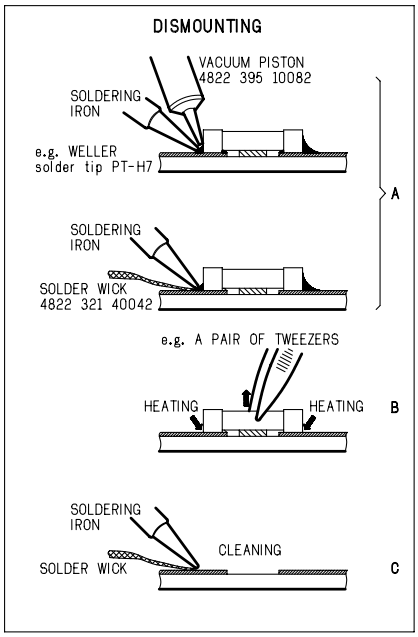
最大外形寸法 (幅×高さ×奥行き) ..... 454×139×344mm
質量 16.6kg
許容動作温度 ..... +5℃ 〜 +35℃
許容動作湿度 ..... 5%〜90% (結露のないこと)

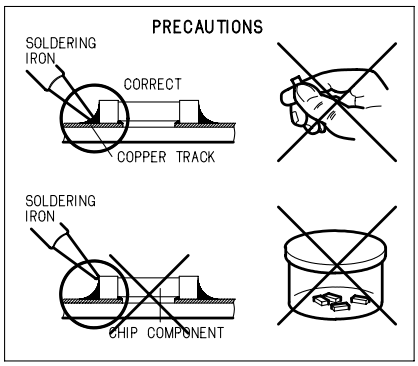
付属品

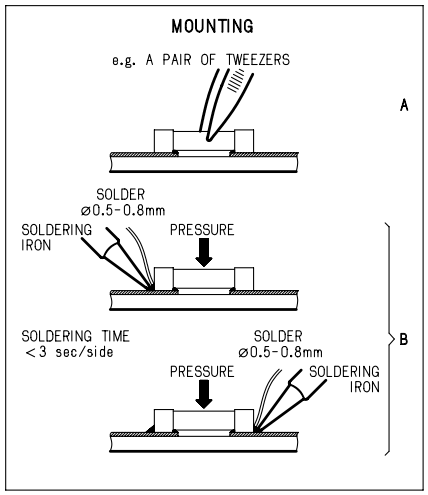
リモートコントロール送信機 (RC-7CD) 1
外形寸法 (幅×高さ×奥行き) ..... 44×17.5×239mm
質量(電池なし) 175g
単四電池(SUM-4) 2個
RCAピンコード 1組
電源コード 1本

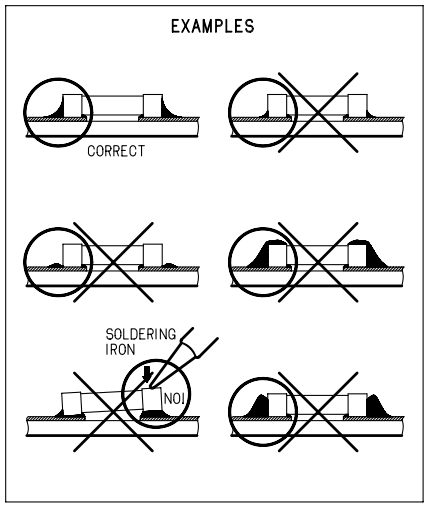
2. SERVICING HINTS











3. SERVICE TOOLS

Audio signals disc	4822 397 30184
Disc without errors (SBC444)+	
Disc with DO errors, black spots and fingerprints (SBC444A)	4822 397 30245
Disc (65 min 1kHz) without no pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
Allen wrench (No. 3)	

4. SERVICE MODE

1. How to enter into the Service Mode
   Turn the power on while pressing [PLAY]+[OPEN/CLOSE] buttons together.
2. Mode 0 (display “P 00”)
   Condition: [FOCUS OFF], [SPINDLE OFF], [RADIAL OFF], [MUTE ON]
   - While pressing [▶▶](Remote Control unit only) button, the sledge moves outside.
     And, release from this button. The sledge return to neutral position.
   - Press [NEXT ▶▶I] button, the function will change to “Mode 1”.
3. Mode 1 (display “P 01”)
   Condition: [FOCUS ON], [SPINDLE OFF], [RADIAL OFF], [MUTE ON]
   - Press [NEXT ▶▶I] button, the function will change to “Mode 2”.
   - Press [PREV I◀◀] button, the function will change to “Mode 0”.
4. Mode 2 (display “P 02”)
   Condition: [FOCUS ON], [SPINDLE ON], [RADIAL OFF], [MUTE ON]
   - Press [NEXT ▶▶I] button, the function will change to “Mode 3”.
   - Press [PREV I◀◀] button, the function will change to “Mode 1”.
5. Mode 3 (display “P 03”)
   Condition: [FOCUS ON], [SPINDLE ON], [RADIAL ON], [MUTE OFF]
   - Press [PREV I◀◀] button, the function will change to “Mode 2”.

✶ The following button operations are available at the Service Mode.
   1) While pressing [STOP] button, FL display shows all segments.
   2) The same as Normal operation is performed by pressing [PLAY] button.
      However if some default is detected, display shows an error code. (For example: “Err 10”) Refer to the “Table 1 **ERROR CODE**”.

6. Canceling the Service Mode
   The Service Mode is canceled by turning the power off.

4. サービスモード

1. サービスモードへの入り方
   [PLAY]と[OPEN/CLOSE] ボタンを押しながら電源を入れます。
2. モード０（表示 P ００）
   状態：[FOCUS OFF] [SPINDLE OFF] [RADIAL OFF] [MUTE ON]
   - リモコンの[▶▶] ボタンを押している間だけスレッドが外周へ移動します。ボタンを放すと原点に戻ります。
   - [NEXT ▶▶I] ボタンを押すとモード１へ移行します。
3. モード１（表示 P ０１）
   状態：[FOCUS ON] [SPINDLE OFF] [RADIAL OFF] [MUTE ON]
   - [NEXT ▶▶I] ボタンを押すとモード２へ移行します。
   - [PREV I◀◀] ボタンを押すとモード０へ移行します。
4. モード２（表示 P ０２）
   状態：[FOCUS ON] [SPINDLE ON] [RADIAL OFF] [MUTE ON]
   - [NEXT ▶▶I] ボタンを押すとモード３へ移行します。
   - [PREV I◀◀]ボタンを押すとモード１へ移行します。
5. モード３（表示 P ０３）
   状態：[FOCUS ON] [SPINDLE ON] [RADIAL ON] [MUTE OFF]
   - [PREV I◀◀] ボタンを押すとモード２へ移行します。

＊ サービスモードの全ての状態で以下のボタンが有効です。
   1) [STOP] ボタンを押している間だけFLが全点灯します。
   2) [PLAY] ボタンを押すと通常と同じ動作となります。ただし、動作中、異常が確認された時にエラー番号が表示されます。（例：Err 10）
      下記の表を参考にしてください。

6. サービスモードの解除
   電源を切るとサービスモードが解除されます。

Table 1 **ERROR CODE**

Error Code	Error
Err 02	FOCUS Error
Err 07	SUB CODE Error
Err 08	T. O. C. Error
Err 09	DECODER Error
Err 10	RADIAL Error
Err 11, 12	SLEDGE Error
Err 13	SPINDLE Error
Err 16 ~ 20	SEARCH Error
Err 30	DOOR Error
Err 31	TRAY Error
Err 32 ~ 47	BUTTON INPUT Error

5. MICROPROCESSOR AND IC DATA

Q102 : SAA7372GP

PIN	SYMBOL	DESCRIPTION
1	VSSA1	*analog ground 1
2	VDDA1	* analog supply voltage 1
3	D1	unipolar current input (central diode signal input)
4	D2	unipolar current input (central diode signal input)
5	D3	unipolar current input (central diode signal input)
6	VRL	reference voltage input for ADC
7	D4	unipolar current input (central diode signal input)
8	R1	unipolar current input (satellite diode signal input)
9	R2	unipolar current input (satellite diode signal input)
10	IrefT	current reference output for ADC calibration
11	VRH	reference voltage output from ADC
12	VSSA2	* analog ground 2
13	SELPLL	selects whether internal clock multiplier PLL is used
14	ISLICE	current feedback output from data slicer
15	HFIN	comparator signal input
16	VSSA3	* analog ground 3
17	HFREF	comparator common mode input
18	Iref	reference current output pin (nominally 0.5VDD)
19	VDDA2	* analog supply voltage 2
20	TEST1	test control input 1; this pin should be tied LOW
21	CRIN	crystal/resonator input
22	CROUT	crystal/resonator output
23	TEST2	test control input 2; this pin should be tied LOW
24	CL16	16.9344 MHz system clock output
25	CL11	11.2896 or 5.6448 MHz clock output (3-state)
26	RA	radial actuator output
27	FO	focus actuator output
28	SL	sledge control output
29	TEST3	test control input 3; this pin should be tied LOW
30	VDDD1(P)	* digital supply voltage 1 for periphery
31	DOBM	bi-phase mark output (externally buffered; 3-state)
32	VSSD1	* digital ground 1
33	MOTO1	motor output 1; versatile (3-state)
34	MOTO2	motor output 2; versatile (3-state)
35	SBSY	subcode block sync output (3-state)
36	SFSY	subcode frame sync output (3-state)
37	RCK	subcode clock input
38	SUB	P-to-W subcode output bits (3-state)
39	VSSD2	* digital ground 2
40	V5	versatile output pin 5
41	V4	versatile output pin 4
42	V3	versatile output pin 3 (open-drain)
43	KILL	kill output (programmable; open-drain)
44	EF	C2 error flag; output only defined in CD ROM modes and 1fs modes (3-state)
45	DATA	serial data output (3-state)
46	WCLK	word clock output (3-state)
47	VDDD2(P)	* digital supply voltage 2 for periphery
48	SCLK	serial bit clock output (3-state)
49	VSSD3	* digital ground 3
50	CL4	4.2336 MHz microcontroller clock output
51	SDA	microcontroller interface data I/O line (open-drain output)
52	SCL	microcontroller interface clock line input
53	RAB	microcontroller interface R/W and load control line input (4-wire bus mode)
54	SILD	microcontroller interface R/W and load control line input (4-wire-bus mode)
55	n.c.	not connected
56	VSSD4	* digital ground 4
57	RESET	power-on reset input (active LOW)
58	STATUS	servo interrupt request line/decoder status register output (open-drain)
59	VDDD3(C)	* digital supply voltage 3 for core
60	C2FAIL	indication of correction failure output (open-drain)
61	CFLG	correction flag output (open-drain)
62	V1	versatile input pin 1
63	V2	versatile input pin 2
64	LDON	laser drive on output (open-drain)

• Note : All supply pins must be connected to the same external power supply voltage.

7000 : TDA1302T

PIN	SYMBOL	DESCRIPTION
1	O4	output of diode current amplifier 4
2	O6	output of diode current amplifier 6
3	O3	output of diode current amplifier 3
4	O1	output of diode current amplifier 1
5	O5	output of diode current amplifier 5
6	O2	output of diode current amplifier 2
7	LDON	control pin for switching the laser ON and OFF
8	VDDL	laser supply voltage
9	RFE	equalized output voltage of sum signal of amplifiers 1 to 4
10	RF	unequalized output
11	HG	control pin for gain switch
12	LS	control pin for speed switch
13	CL	external capacitor
14	ADJ	reference input normally connected to ground via a resistor
15	GND	0 V supply; substrate connection (ground)
16	LO	current output to the laser diode
17	MI	laser monitor diode input
18	VDD	amplifier supply voltage
19	I2	photo detector input 2 (central)
20	I5	photo detector input 5 (satellite)
21	I1	photo detector input 1 (central)
22	I3	photo detector input 3 (central)
23	I6	photo detector input 6 (satellite)
24	I4	photo detector input 4 (central)

Q103/Q104 : TDA7073AT

PIN	SYMBOL	DESCRIPTION
1	IN1-	negative input 1
2	IN1+	positive input 1
3	n.c.	not connected
4	n.c.	not connected
5	VP	positive supply voltage
6	IN2+	positive input 2
7	IN2-	negative input 2
8	n.c.	not connected
9	OUT2+	positive output 2
10	GND2	ground 2
11	n.c.	not connected
12	OUT2-	negative output 2
13	OUT1-	negative output 1
14	GND1	ground 1
15	n.c.	not connected
16	OUT1+	positive output 1

Q304 : TDA1315H

SYMBOL	PIN	PADCELL	DESCRIPTION
RC_{fil}	1	E029	PLL loop filter input
V_{ref}	2	E029	decoupling internal reference voltage output
V_{DDA}	3	E008	analog supply voltage
V_{SSA}	4	E004	analog ground
IECIN1	5	E007	high sensitivity IEC input
IECIN0	6	IPP04	TTL level IEC input
IECSEL	7	IUP04	select IEC input 0 or 1 (0 = IECIN0; 1 = IECIN1); this input has an internal pull-up resistor
IECO	8	OPFH3	digital audio output for optical and transformer link
IECOEN	9	IUP04	digital audio output enable (0 = enabled; 1 = disabled/3-state); this input has an internal pull-up resistor
TESTB	10	IPP04	enable factory test input (0 = normal application; 1 = scan mode)
TESTC	11	IPP04	enable factory test input (0 = normal application; 1 = observation outputs)
UNLOCK	12	OPP41A	PLL out-of-lock (0 = not locked; 1 = locked); this output can drive an LED
$\overline{FS32}$	13	OPP41A	indicates sample frequency = 32 kHz (active LOW); this output can drive an LED
$\overline{FS44}$	14	OPP41A	indicates sample frequency = 44.1 kHz (active LOW); this output can drive an LED
$\overline{FS48}$	15	OPP41A	indicates sample frequency = 48 kHz (active LOW); this output can drive an LED
CHMODE	16	OPP41A	use of channel status block (0 = professional use; 1 = consumer use); this output can drive an LED
V_{DDD2}	17	E008	digital supply voltage 2
V_{SSD2}	18	E009	digital ground 2
RESET	19	IDP09	initialization after power-on, requires only an external capacitor connected to V_{DDD}; this is a Schmitt-trigger input with an internal pull-down resistor
PD	20	IPP04	enable power-down input in the standby mode (0 = normal application; 1 = standby mode)
CTRLMODE	21	IUP04	select microcontroller/stand-alone mode (0 = microcontroller; 1 = stand-alone); this input has an internal pull-up resistor
LADDR	22	IPP04	microcontroller interface address switch input (0 = 000001; 1 = 000010)
LMODE	23	IPP09	microcontroller interface mode line input
LCLK	24	IPP09	microcontroller interface clock line input
LDATA	25	IOF24	microcontroller interface data line input/output
STROBE	26	IDP04	strobe for control register (active HIGH); this input has an internal pull-down resistor
UDAVAIL	27	OPF23	synchronization for output user data (0 = data available; 1 = no data)
TESTA	28	IPP04	enable factory (scan) test input (0 = normal application; 1 = test clock enable)
COPY	29	OPP41A	copyright status bit (0 = copyright asserted; 1 = no copyright asserted); this output can drive an LED
INVALID	30	IOD24	validity of audio sample input/output (0 = valid sample; 1 = invalid sample); this pin has an internal pull-down resistor
DEEM	31	OPF23	pre-emphasis output bit (0 = no pre-emphasis; 1 = pre-emphasis)
MUTE	32	IUP04	audio mute input (0 = permanent mute; 1 = mute on receive error); this pin has an internal pull-up resistor
I^2SSEL	33	IUP04	select auxiliary input or normal input in transmit mode
SDAUX	34	IPP04	auxiliary serial data input; I^2S-bus
SD	35	IOF24	serial audio data input/output; I^2S-bus
WS	36	IOF24	word select input/output; I^2S-bus
SCK	37	IOF29	serial audio clock input/output; I^2S-bus
I^2SOEN	38	IUP04	serial audio output enable (0 = enabled; 1 = disabled/3-state); this input has an internal pull-up resistor
SYSCLKI	39	IPP09	system clock input (transmit mode)
SYSCLKO	40	OPFA3	system clock output (receive mode)
V_{SSD1}	41	E009	digital ground 1
V_{DDD1}	42	E008	digital supply voltage 1
CLKSEL	43	IUP04	select system clock (0 = $384f_s$; 1 = $256f_s$); this input has an internal pull-up resistor
RC_{int}	44	E029	integrating capacitor output

QD03/QD53 : TDA1541A/S2

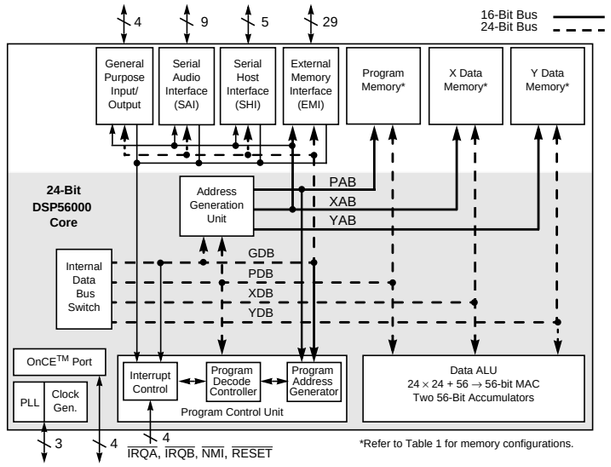
PINNING

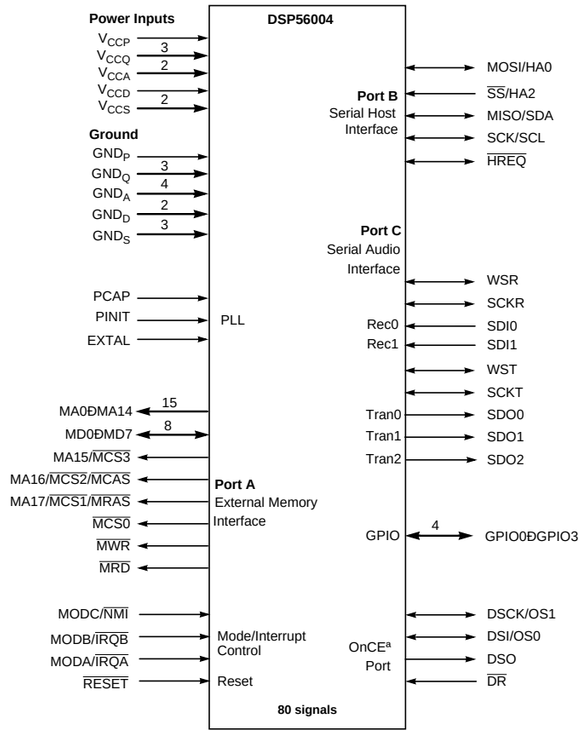
SYMBOL	PIN	DESCRIPTION
LE/WS[1]	1	latch enable input/ word select input
BCK[1]	2	bit clock input
DATA L /DATA[1]	3	data left channel input/ data input (selected format)
DATA R[1]	4	data right channel input
GND(A)	5	analog ground
AOR	6	right channel output
DECOU	7 to 13	decoupling
GND (D)	14	digital ground
V_{DD2}	15	–15 V supply voltage
COSC	16,17	oscillator
DECOU	18 to 24	decoupling
AOL	25	left channel output
V_{DD1}	26	–5 V supply voltage
$\overline{OB}$/TWC[1]	27	mode select input
V_{DD}	28	+5 V supply voltage

Note

1. See Table 1 data selection input.

Q507/Q509 : DSP56004

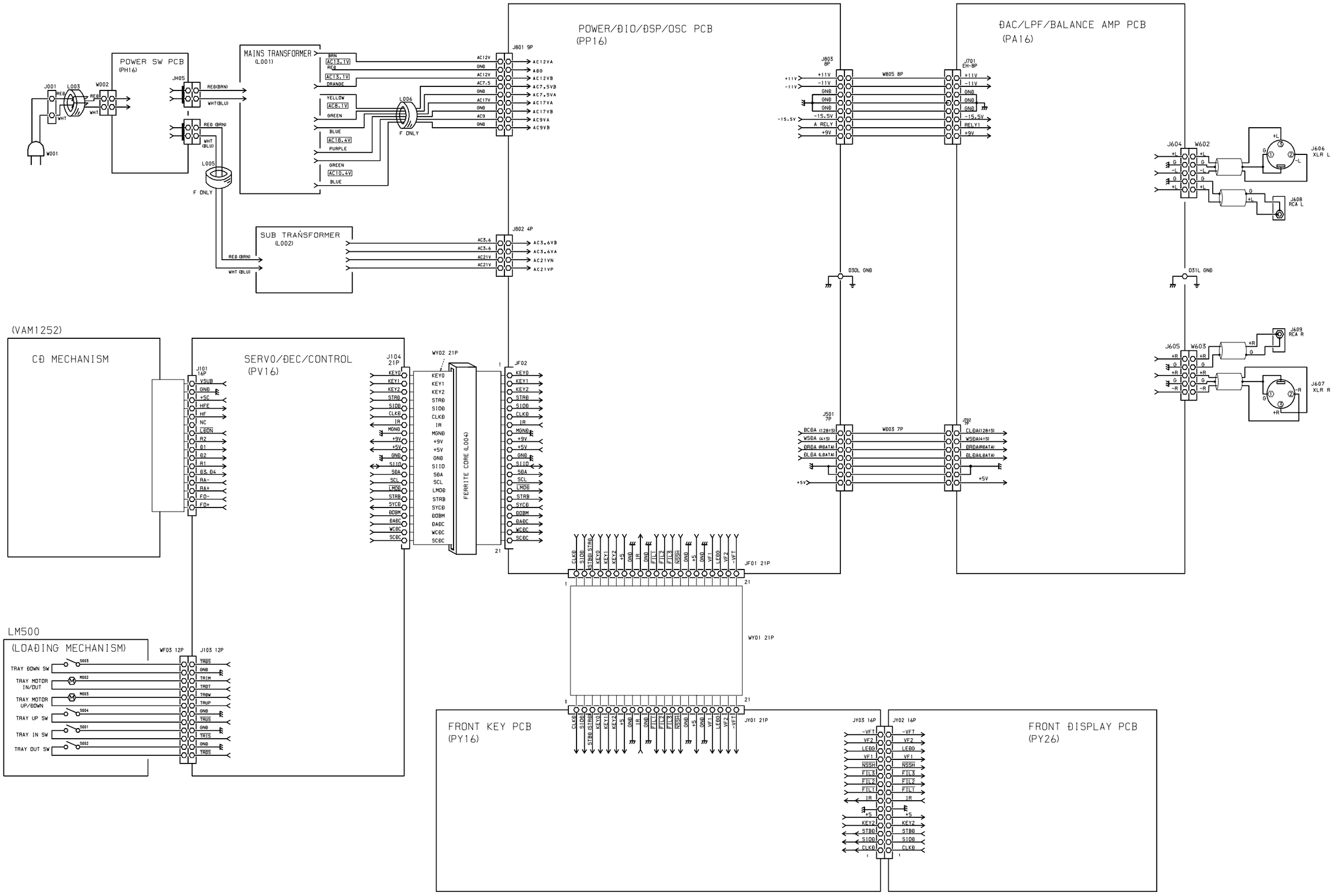




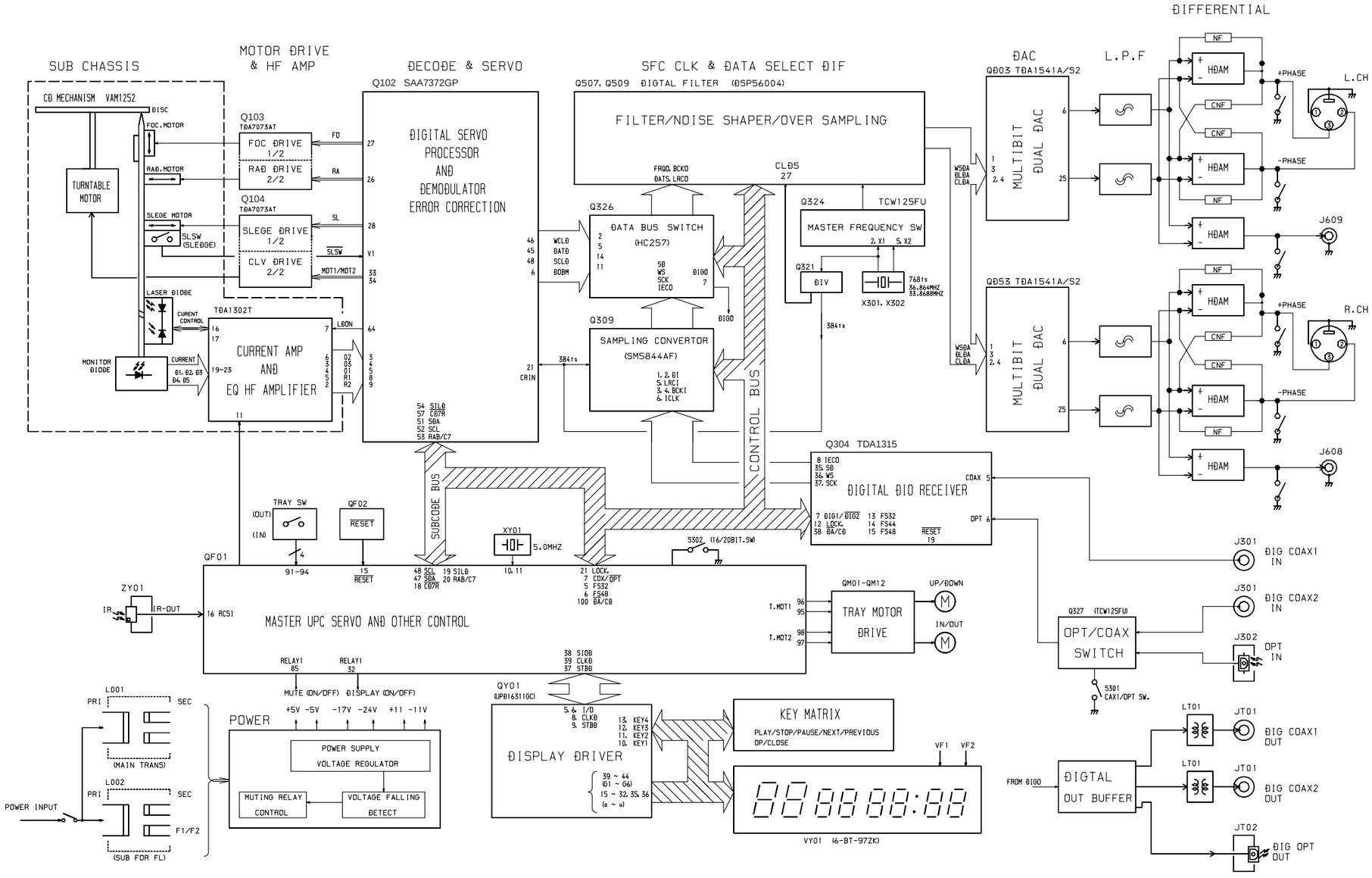
QF01 : µPD78076 MAIN

Pin No.	Port Name	Function	In/Out	Active	To/From	Description
1	STRB	P120	Out	High	Q304	Strobe signal for control resister for Q304(TDA1315H)
2	LMOD	P121	Out	Low	Q304	Interface mode line for Q304(TDA1315H)
3	OPEN	P122				-----
4	GND	P123			GND	GND
5	FS32	P124	In	Low	Q304	Sampling frequency input (L = 32KHz Receiving)
6	FS48	P125	In	Low	Q304	Sampling frequency input (L = 48KHz Receiving)
7	COAX/OPT	P126	Out	Low	Q304	Digital input select signal (L = Optical , H = Coaxal)
8	DMUT	P127	Out	Low	Q304	Digital muting control signal for Q304(TDA1315H)
9	GND	IC			GND	GND
10	5MHzXTAL	X2			XF01	Clock out (5MHz)
11	5MHzXTAL	X1			XF01	Clock in (5MHz)
12	+5V	Vdd			+5V	Power supply +5V
13	OPEN	XT2			---	-----
14	+5V	XT1			+5V	Power supply +5V
15	REST	RESET	In	Low	QF02	Reset signal input for QF02
16	RC5I	INTP0	In	↓ ↑	ZY01	Remote control signal input for ZY01
17	OPEN	INTP1			---	-----
18	CD7R	P02	Out	Low	Q102	CD7 Reset signal for Q102(SAA7372GP)
19	SILD	P03	Out	Low	Q102	Strobe signal for servo part of Q102(SAA7372GP)
20	RAB7	P03	Out	Low	Q102	Strobe signal for digital part of Q102(SAA7372GP)
21	LOCK	INTP5	In	Low	Q304	Unlock signal of Q304(TDA1315H)
22	MSCP	INTP6	In	Low	GND	GND
23	+5V	Avdd			+5V	Power supply +5V
24	+5V	Avref0	In		+5V	Power supply +5V
25	KEY0	ANI0	In	Level	Tact Switch	Key Sensor
26	KEY1	ANI1	In	Level	Tact Switch	Key Sensor
27	KEY2	ANI2	In	Level	Tact Switch	Key Sensor
28	GND	ANI3			GND	GND
29	MUTE	ANI4	Out	High	Q507	Mute signal for DSP Q507(DSP56004)
30	PAUS	ANI5	Out	High	Q507	Mute of pause on time for DSP Q507(DSP56004)
31	OPEN	ANI6			(CD7L)	-----
32	RELY2	ANI7	Out	High	QY51	Display on/off control signal (L = off , H = on)
33	GND	Avss			GND	GND
34	OPEN	P130	In/Out		---	-----
35	OPEN	P131	Out		---	-----
36	+5V	Avref	In		+5V	Power supply +5V
37	STRD	P70	Out	Low	QY01	Strobe signal for QY01
38	SIOD	SO2	Out	↓ ↑	QY01	Serial data for QY01
39	CLKD	SCK2	Out	Low	QY01	Serial clock for QY01
40	GND	Vss			GND	GND
41	OPEN	SI1	In		---	-----
42	OPEN	SO1			---	-----
43	OPEN	SCK1			---	-----
44	OPEN	P23			---	-----
45	OPEN	P24			---	-----
46	OPEN	SB0			---	-----
47	OPEN	SB1	In/Out		---	-----
48	SDA	SCK0	Out		Q102/Q304	Serial data signal for Q102/Q304
49	SCL	A0			Q102/Q304	Serial clock signal for Q102/Q304
50	OPEN	A1			---	-----
51	OPEN	A2			---	-----
52	OPEN	A3			---	-----
53	OPEN	A4			---	-----
54	OPEN	A5			---	-----
55	OPEN	A6			---	-----
56	OPEN	A7			---	-----
57	GND	D0			GND	GND
58	GND	D1			GND	GND
59	GND	D2			GND	GND
60	GND	D3			GND	GND
61	GND	D4			GND	GND
62	GND	D5			GND	GND
63	GND	D6			GND	GND
64	GND	D7			GND	GND
65	OPEN	A8			---	-----
66	OPEN	A9			---	-----
67	OPEN	A10			---	-----
68	OPEN	A11			---	-----
69	OPEN	A12			---	-----
70	OPEN	A13			---	-----
71	GND	Vss			GND	GND
72	OPEN	A14			(RA12)	-----
73	RA11	A15	Out	High	Q506	Audio data select signal output (L = 16Bit)
74	16WD	P60	In	Low	GND	Audio data select signal input (L = 16Bit)
75	FMUT	P61	Out	High	QN05	Mute of switching on time killer
76	RSD2	P62	Out	Low	Q309,Q509	Reset of Q309,Q509
77	RSD1	P63	Out	Low	Q507	Reset of Q507
78	NSSH	RD	Out	Low	Q508,QY10	Noise shaper on/off signal (L = on , H = off)
79	FIL3	WR	Out	High	Q508,QY09	Filter 3 select signal (H = select of filter 3)
80	FIL2	P66	Out	High	Q508,QY08	Filter 2 select signal (H = select of filter 2)
81	FIL1	P67	Out	High	QY07	Filter 1 select signal (H = select of filter 1)
82	OPTI	P100	In	High	Q303	Optical input select (H = OPT , L = COAX1)
83	OPEN	TO6			---	-----
84	OPEN	P102			---	-----
85	RELY1	P103	Out	High	D301	Audio muting control signal of poer on/off(H=mute on)
86	MSL1	P30	In	High	High Level	-----
87	MSL2	P31	In	Low	GND Level	-----
88	OPEN	P32			---	-----
89	CDRW	P33	Out	High	NC	-----
90	SLSW	P34	In	Low	VAM1201	Sledge detect switch (L = in end)
91	TROS	P35	In	Low	TRAY	Tray in/out detect switch (L = out end)
92	TRIS	P36	In	Low	TRAY	Tray in/out detect switch (L = in end)
93	TRUS	P37	In	Low	TRAY	Tray up/down detect switch (L = up end)
94	TRDS	P90	In	Low	TRAY	Tray up/down detect switch (L = down end)
95	TROM	P91	Out	High	QM10	Tray motor control signal (H = tray out)
96	TRIM	P93	Out	High	QM09	Tray motor control signal (H = tray in)
97	TRDM	P94	Out	High	QM12	Tray motor control signal (H = tray down)
98	TRUM	P95	Out	High	QM11	Tray motor control signal (H = tray up)
99	AMUT	P95	Out	Low	NC	-----
100	DA/CD	P96	Out	Low	Q504	Mode select (L = D/A Mode , H = CD Mode)

6. WIRING DIAGRAM



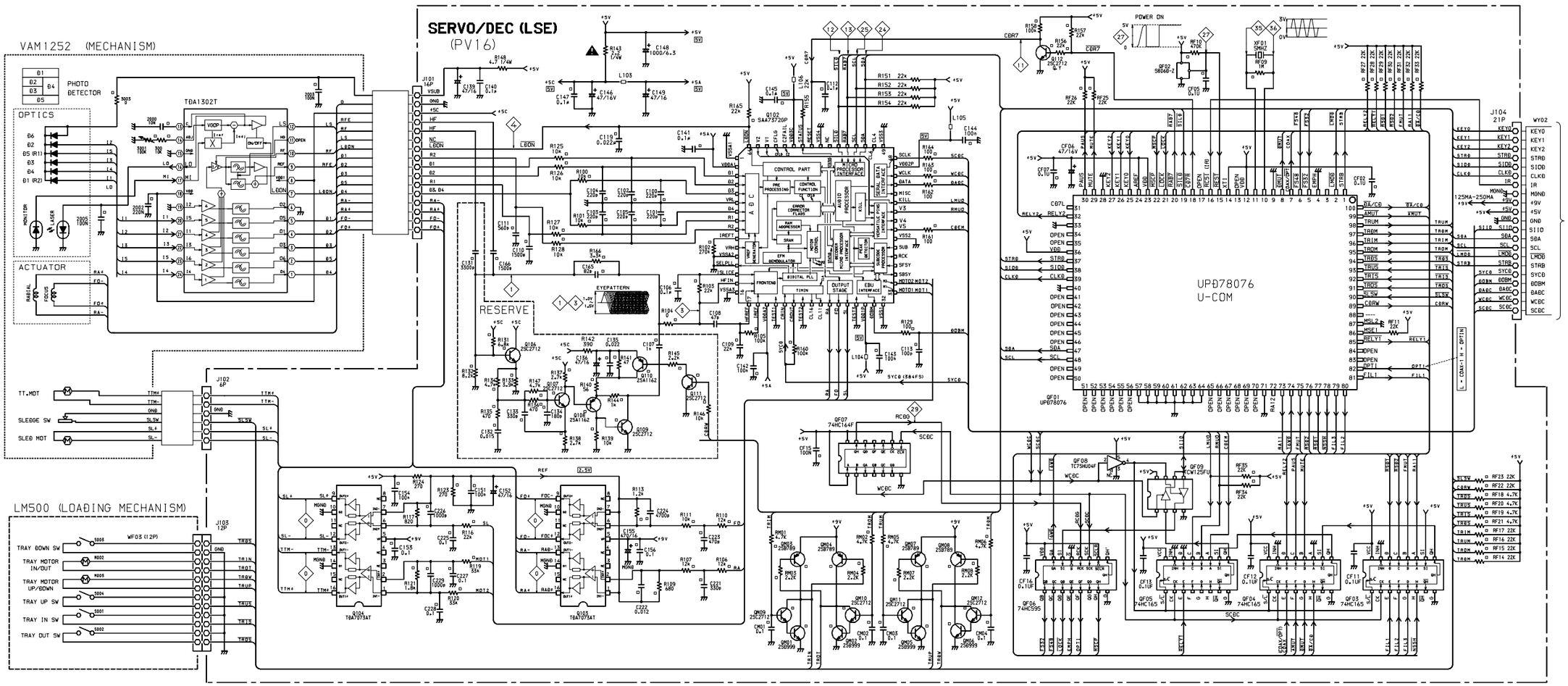
7. BLOCK DIAGRAM

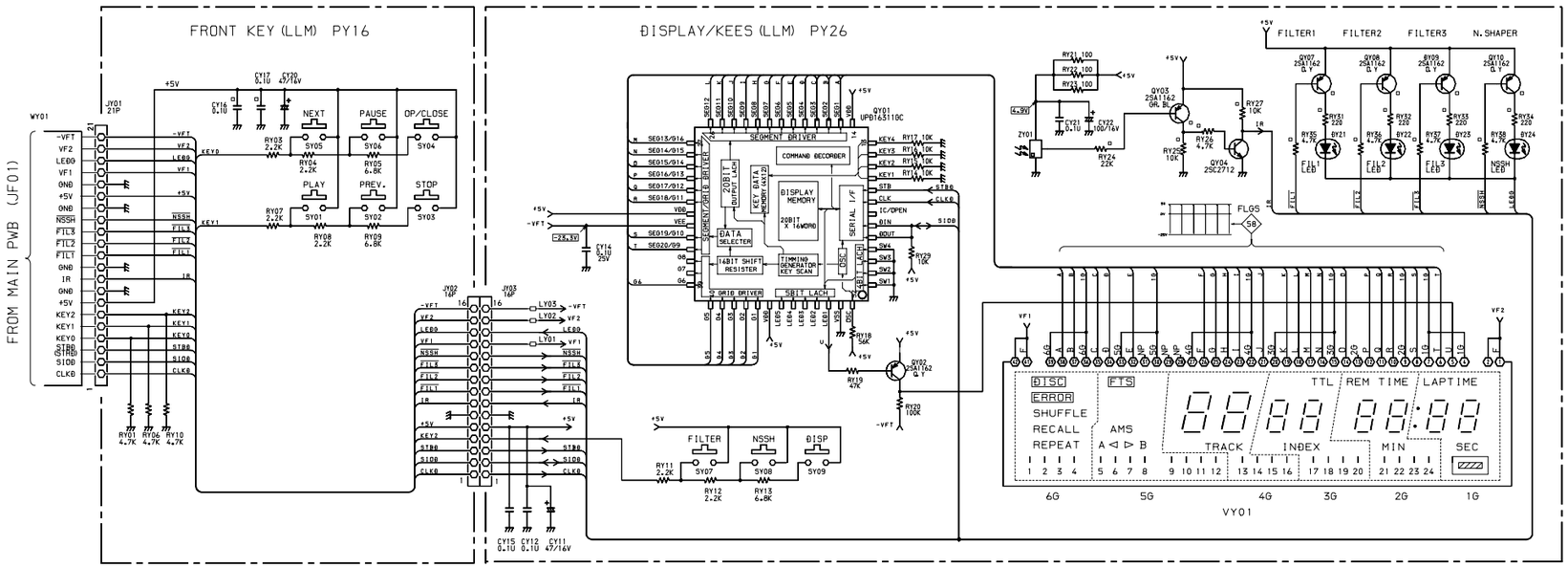


8. FLAG No.

No.	Flag Name	Function
0	MT-OUT	Motor Drive Output
1	HF-OUT	TDA1302T HF signal output
2		
3	HF-HPF	HF Signal HPF Output
4	LDON	Laser Diode Control Signal
5		
6	RA	Radial Motor Control Signal(PDM)
7	FO	Focus Motor Control Signal(PDM)
8	SL	Sleqde Motor Control Signal(PDM)
9		
10	DIGO	Digital Audio Output Signal
11	CDR7	CD7(SAA7372) Reset Pulse
12	SILD	CD7(SAA7372) Servo Parte enable Signal
13	RAB7	CD7(SAA7372) Decorde and DSP parte enable signal
14	SCDC	CD7(SAA7372) data clock out signal
15	WCDC	CD7(SAA7372) data word clock out signal
16	SIIO	Servo pcb and Main pcb comunicateing signal
17		
18	LRCK	SM5844AF(Q309) word clock signal
19		
20		
21	DADC	CD7(SAA7372) data out(16bit) signal
22	36MHz	Sampling frequency 48KHz/32KHz Master clock
23	33MHz	Sampling frequency 44KHz Master clock
24	SDA	From CPU(QF01) TO TDA1315H(Q304) data signal
25	SCL	From CPU(QF01) TO TDA1315H(Q304) clock signal
26		
27	REST	CPU(QF01) Power on reset
28	RCDK	Main pcb SIIO Latch pulse for(Q501,Q502,Q503)
29	RCDG	SERVO PCB SIIO Latch pulse for QF06
30		
31		
32		
33		
34		
35	OSC	CPU(QF01) self clock
36	OSC	CPU(QF01) self clock
37		
38		
39		
40		
41	LOCK	TDA1315H(Q304) unlock delayed output signal
42	EMPA	TDA1315H(Q304) Deemphasis output signal
43	DACD	CD7(SAA7372) data out signal
44		
45		
46		
47		
48	DMUT	from CPU(QF01) to TDA1315H(Q304) muting signal
49		
50	FS32	TDA1315H(Q304) 32k Sampling detected signal
51	FS44	TDA1315H(Q304) 44.1k Sampling detected signal
52	FS48	TDA1315H(Q304) 48k Sampling detected signal
53	SD	TDA1315H(Q304) data output signal
54	WS	TDA1315H(Q304) Word select output signal
55	SCK	TDA1315H(Q304) data clock output signal
56	FRO2	CD7(SAA7372) Operating clock out signal
57	UNLOCK	TDA1315H(Q304) unlock output signal
58		
59	COAX2	Digtal I/O input COAX2 signal
60	OPT0	Digtal I/O input OPTICAL signal
61		
62		
63		
64		
65		
66	OUT+	Correct phase AUDIO SIGNAL
67	OUT-	Inverse phase AUDIO SIGNAL
68		
69	REMU	Relay mute by POWER ON/OFF and selecting FILTER mode
70		
71		
72		
73		
74		
75		
76		
77		
78		
79	768FS	Master clock selecting output
80	256FS	Master clock divided output
81	128FS	Master clock divided output
82	4FS	176.4KHz before Word select signal
83	WSDA	Word select for DSP(Q509) and DAC(QD03,QD53) 176.4KHz
84	FMUT	Filter select switching on time unenable for DAC
85	CLDA	DSP(Q509) data clock signal
86	BCEN	DSP(Q509) data clock enable signal for DAC
87	BCDA	for DAC(QD03,QD53) data clock 5.6448MHz
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		

9. SCHEMATIC DIAGRAM AND PARTS LOCATION



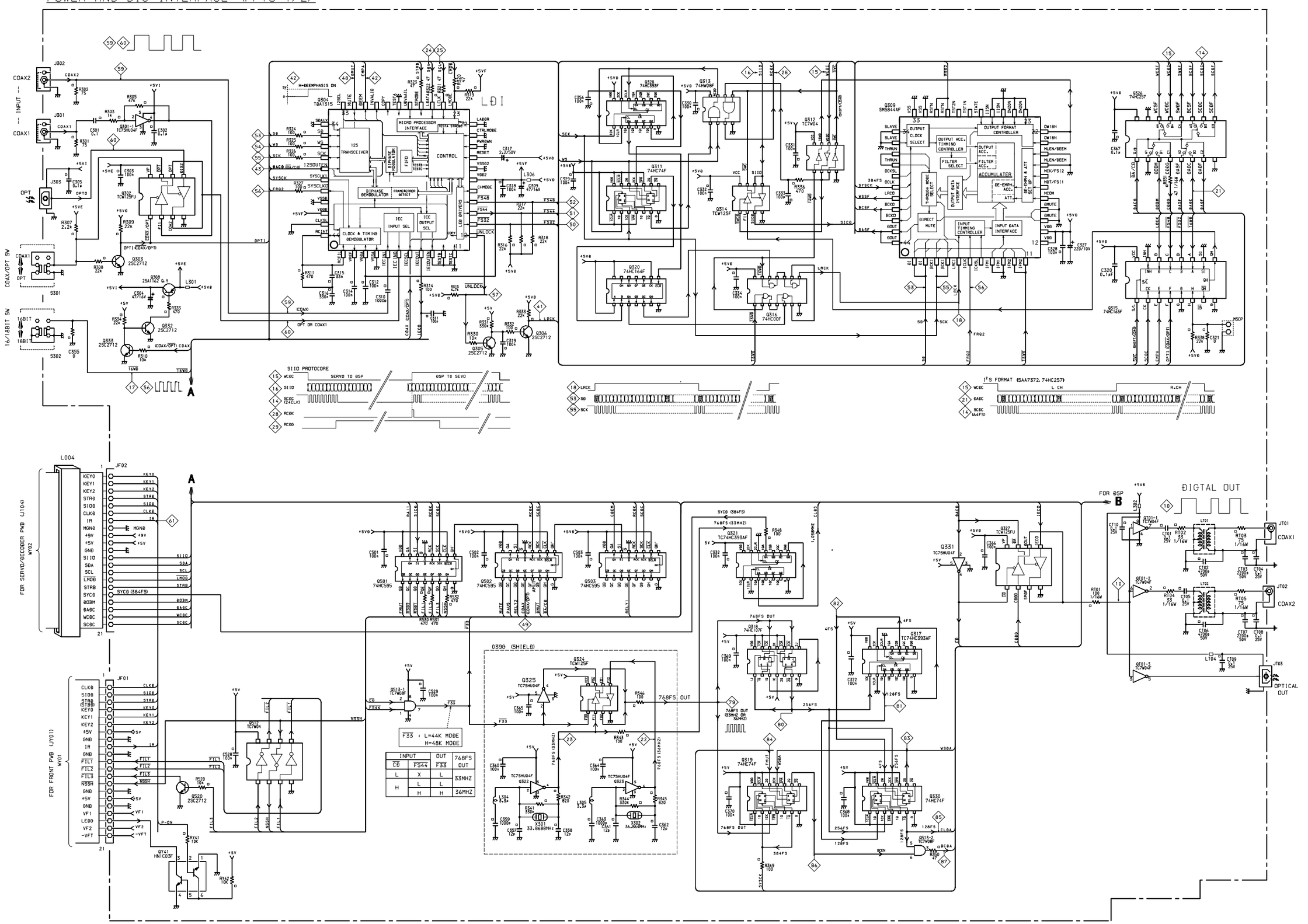


ANODE CONNECTION

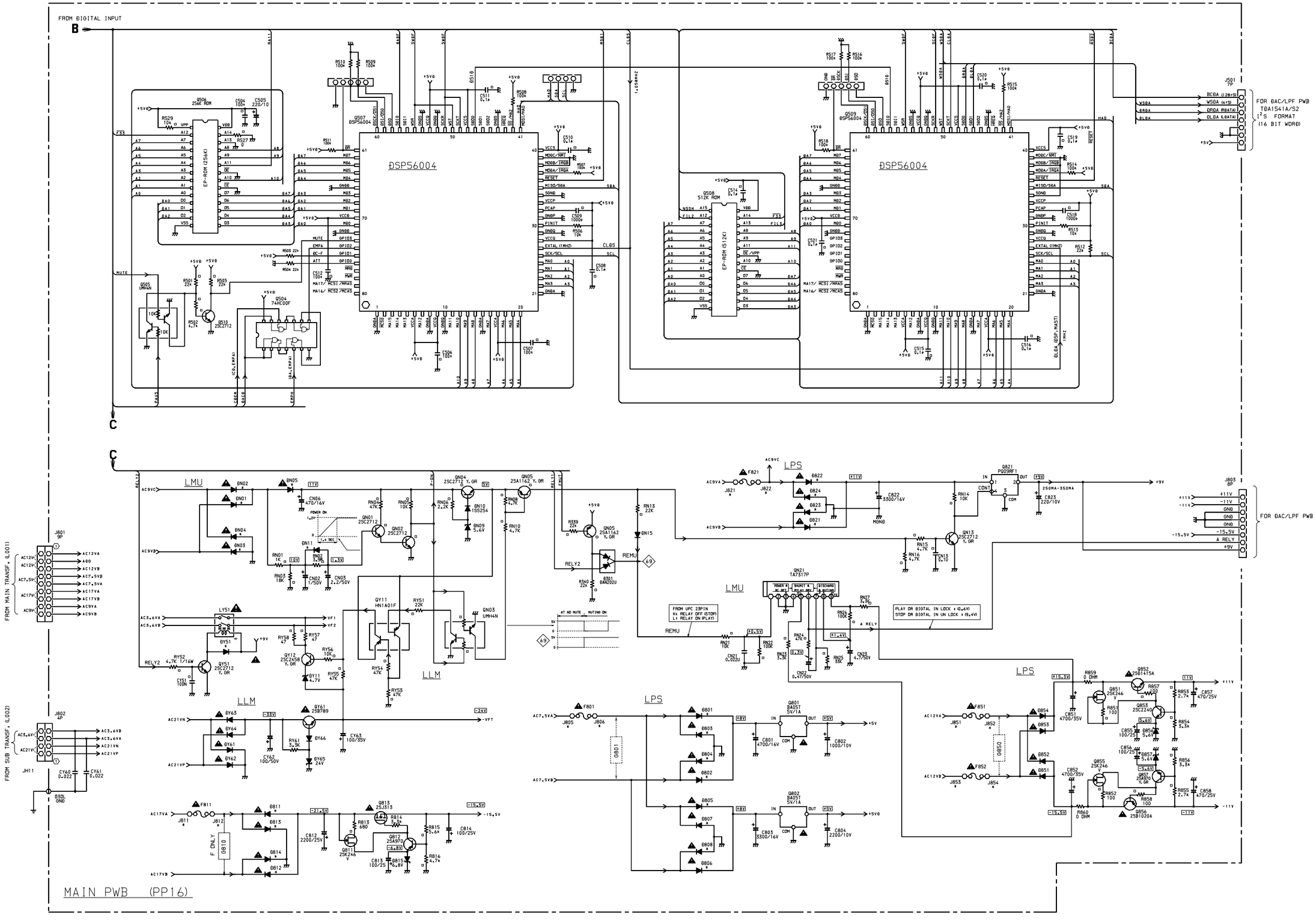
ĐISPLAY 6-BT-97ZK

	6G	5G	4G	3G	2G	1G
A	ERROR	A ◁ ▷ B	13	20	21	-
B	SHUFFLE	-	14	19	22	COLON
C	RECALL	-	15	18	23	▨
Đ	REPEAT	AMS	16	17	24	LAP TIME
E	DISC	-	-	TTL	REM TIME	-
F	-	-	1a	1a	1a	1a
G	-	-	2a	2a	2a	2a
H	-	-	1f	1f	1f	1f
I	-	-	2f	2f	2f	2f
J	-	-	1b	1b	1b	1b
K	-	-	2b	2b	2b	2b
L	4	5	1g	1g	1g	1g
M	3	6	2g	2g	2g	2g
N	2	7	1c	1c	1c	1c
O	1	8	2c	2c	2c	2c
P	-	9	1e	1e	1e	1e
Q	-	10	2e	2e	2e	2e
R	-	11	1d	1d	1d	1d
S	-	12	2d	2d	2d	2d
T	-	FTS	TRACK	INĐEX	MIN	SEC
U	▮▮▮▮▮	▮▮▮▮▮▮▮▮▮▮	▮▮▮▮▮	▮▮▮▮▮	▮▮▮▮▮	▭

POWER AND DIG-INTERFACE (PP16 1/2)



POWER AND DIG-INTERFACE (PP16 2/2)

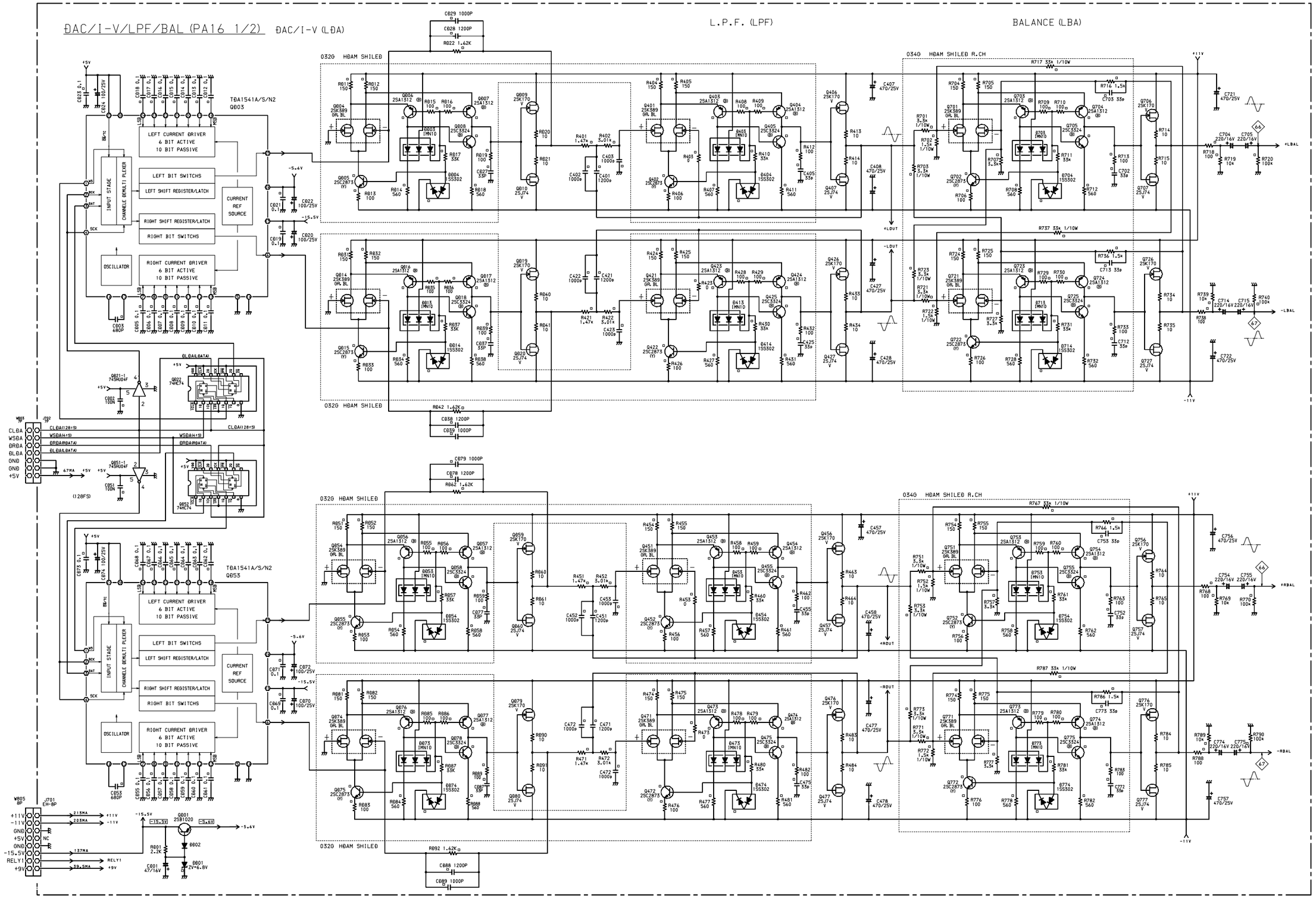


ĐAC/I-V/LPF/BAL (PA16 1/2)

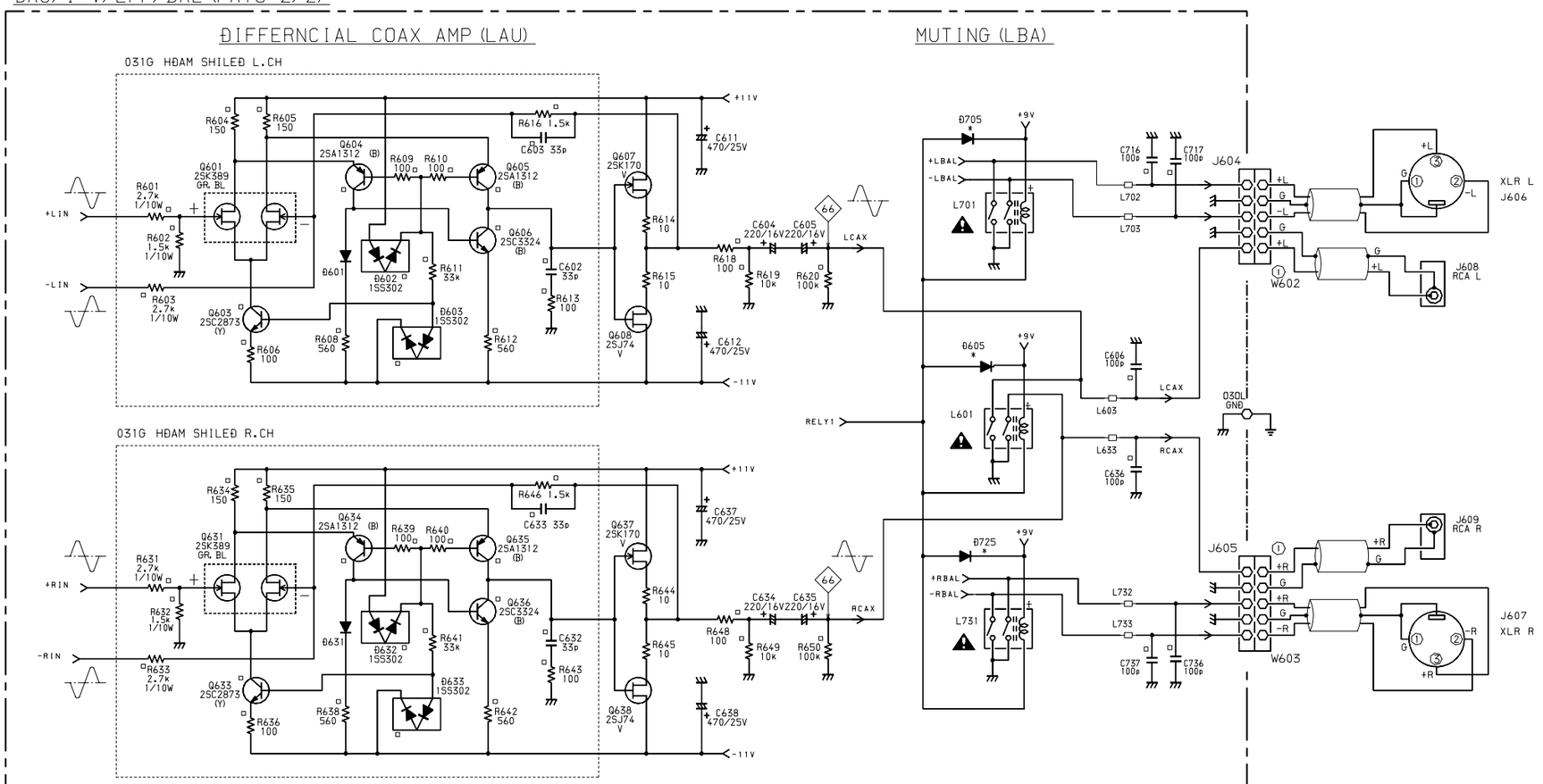
ĐAC/I-V (LĐA)

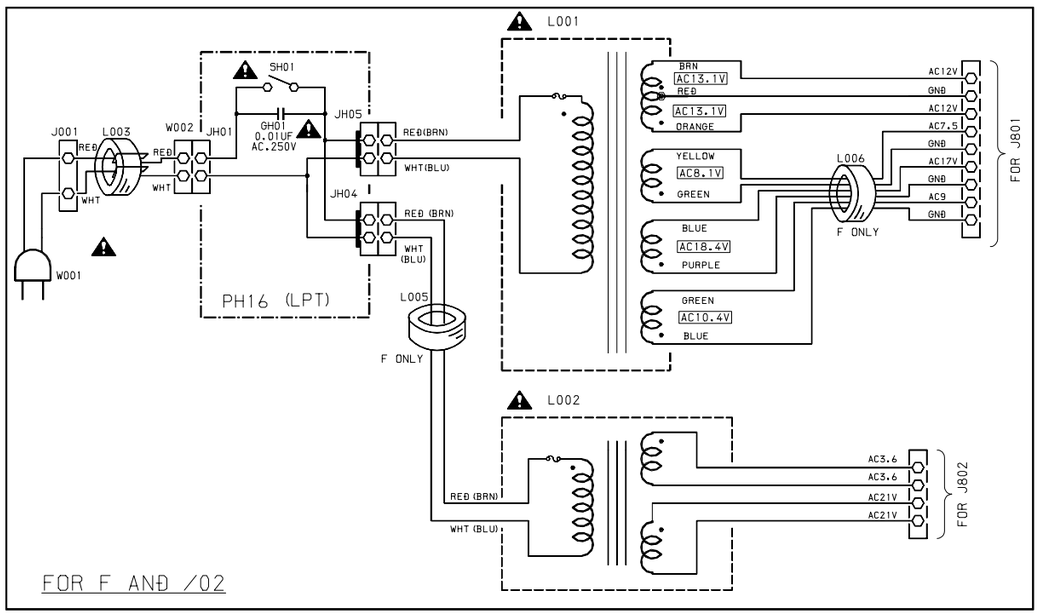
L.P.F. (LPF)

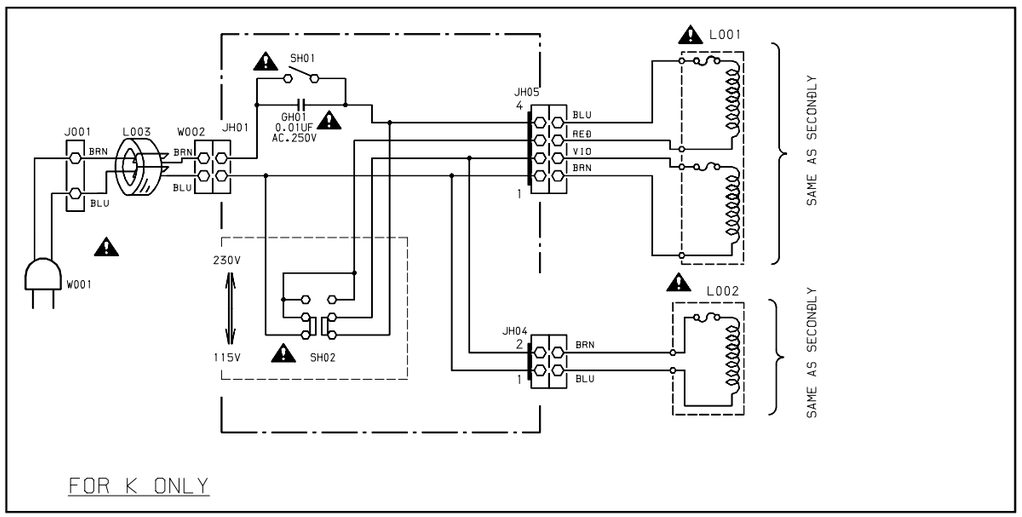
BALANCE (LBA)



ĐAC/I-V/LPF/BAL (PA16 2/2)







PP16

Q332 Q333 Q304
Q308
Q303 Q301 Q327
Q305 Q306 Q315

Q328 Q311
Q320 Q316
Q306

Q503 Q504
Q502 Q505
Q501 Q510
Q329

Q507

Q506

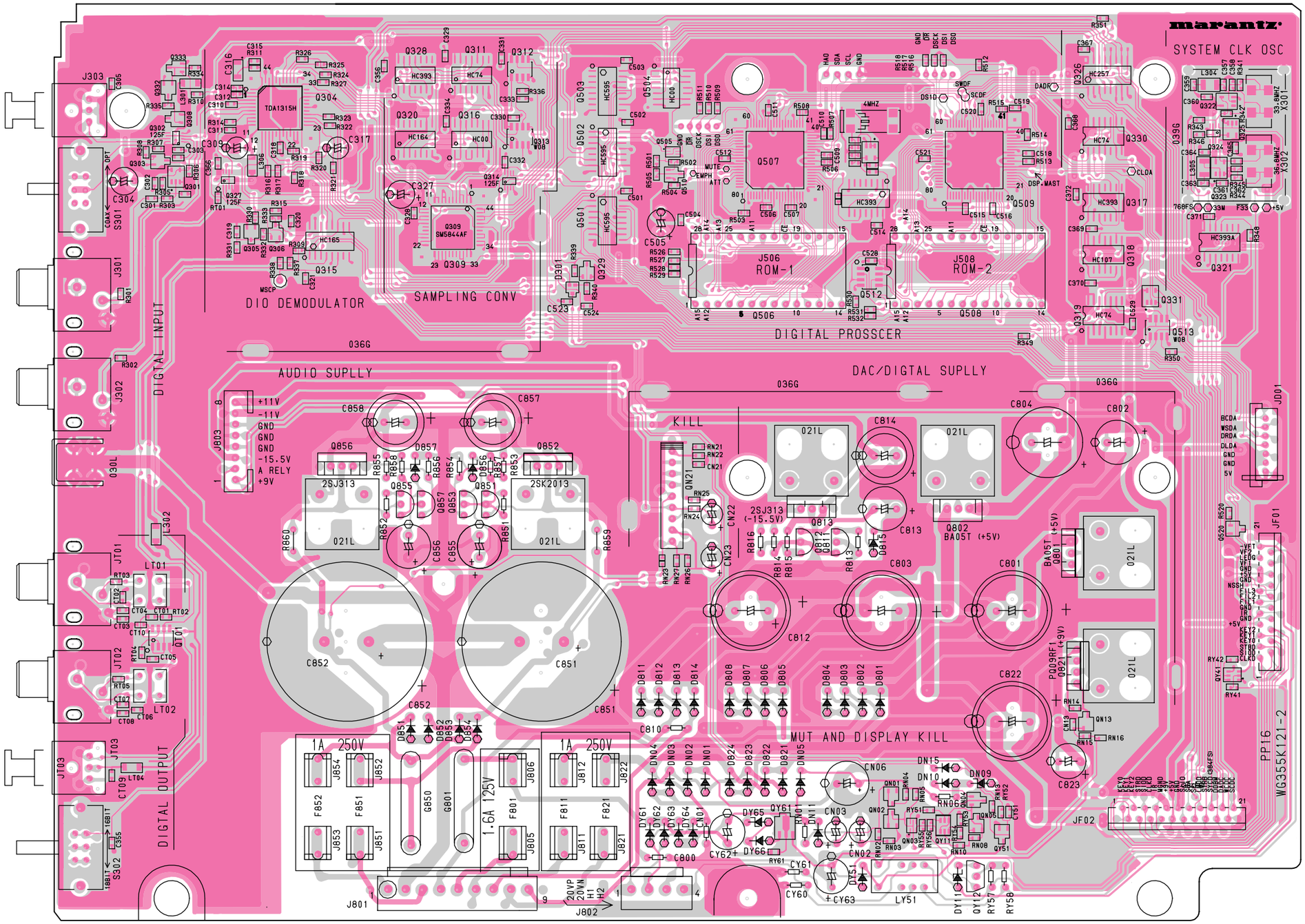
Q512

Q509

Q508

Q326
Q330
Q317
Q318 Q331
Q319 Q513

Q322
Q324 Q325
Q323
Q321



QT01

Q856 Q855 Q857 Q853 Q851 Q852

Q812 Q813 Q811

Q802

Q801
Q802

Q520
QY41

QY61

QN01 QN04
QN02 QN03 QY11 QN05 QY51
QY12

QN13

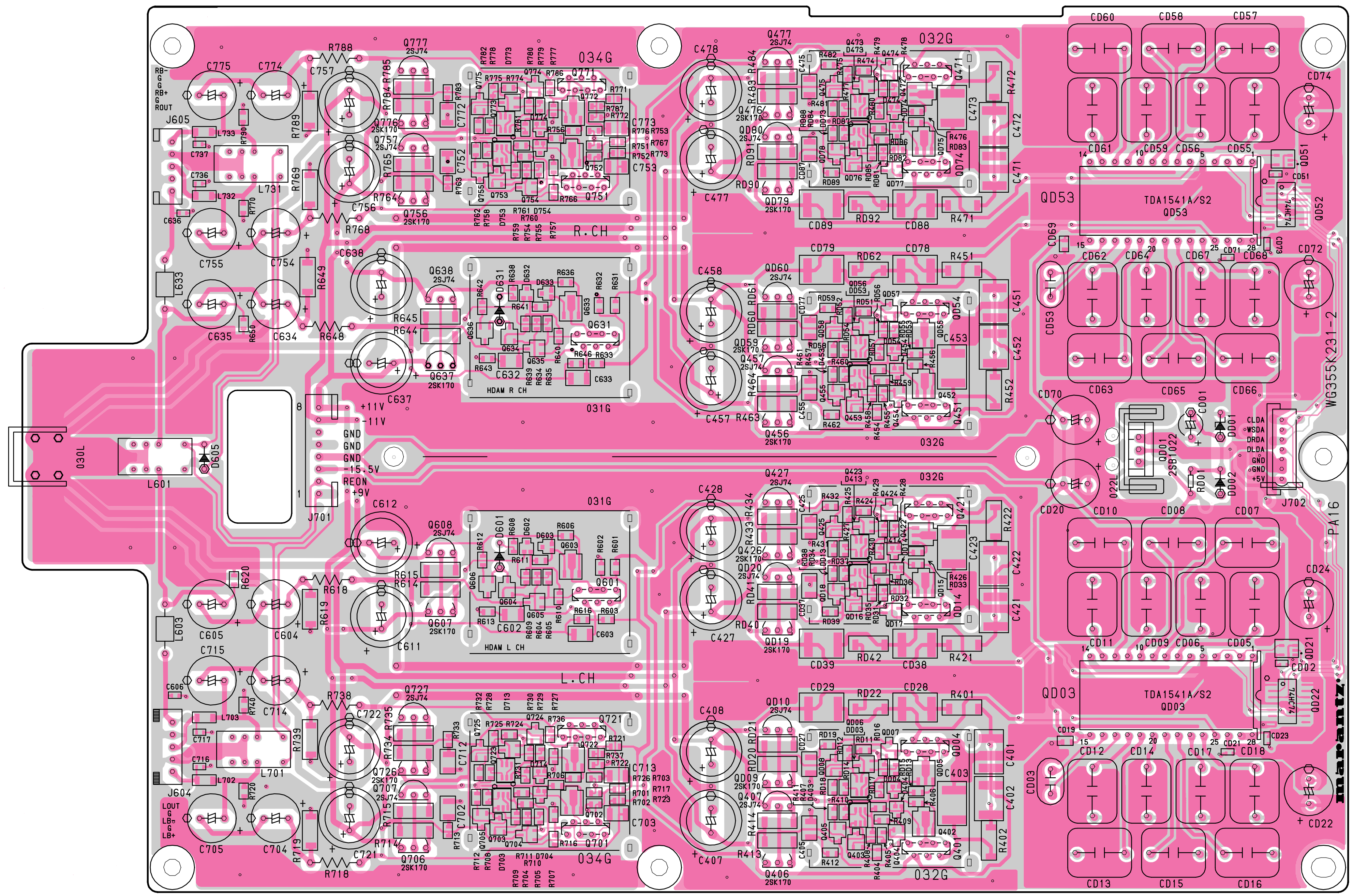
PA16

Q777 Q776 Q775 Q773 Q774 Q772
Q757 Q756 Q755 Q753 Q754 Q752
Q638 Q636 Q634 Q635 Q633 Q631
Q637

Q477 Q476 Q475 Q473 Q474 Q427 Q471
QD80 QD79 QD78 QD76 QD77 QD75 QD74
QD60 QD59 QD58 QD56 QD57 QD55 QD54
Q457 Q456 Q455 Q453Q454 Q452 Q451

QD53
QD01

QD51
QD52



Q608
Q607 Q606 Q604 Q605 Q603 Q601
Q727 Q726 Q725 Q723 Q724 Q722 Q721
Q707 Q706 Q705 Q703 Q704 Q702 Q701

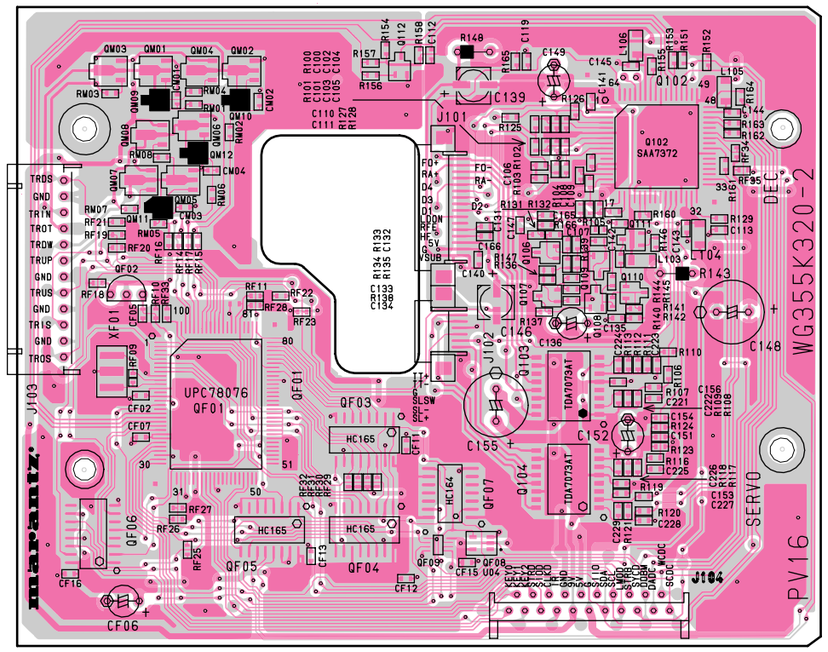
Q427 Q426 Q425 Q423 Q424 Q427 Q421
QD20 QD19 QD18 QD16 QD17 QD15 QD14
QD10 QD09 QD08 QD06 QD07 QD05 QD04
Q407 Q406 Q405 Q403Q404 Q402 Q401

QD03

QD21
QD22

PV16

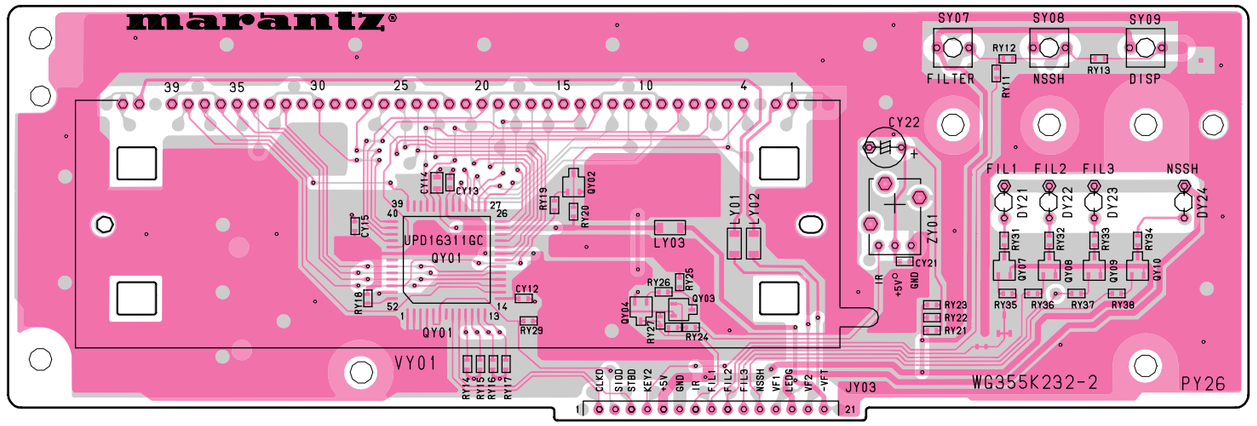
QM01 ~ QM12 Q112 Q106 ~ Q111 Q102
QF02



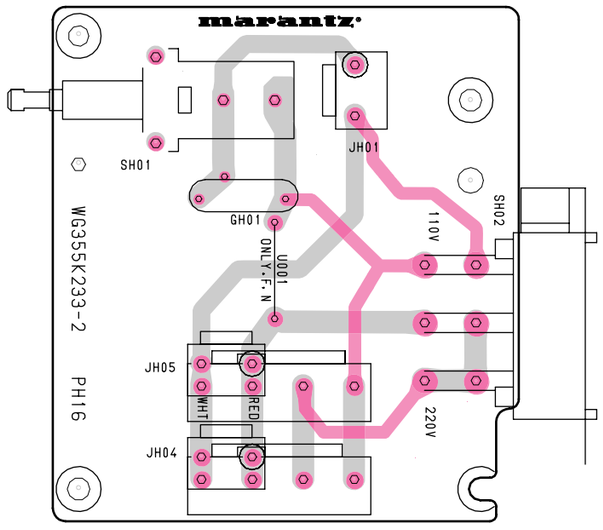
QF01 QF03 Q103 Q104
QF06 QF05 QF04 QF07 QF08

PY16

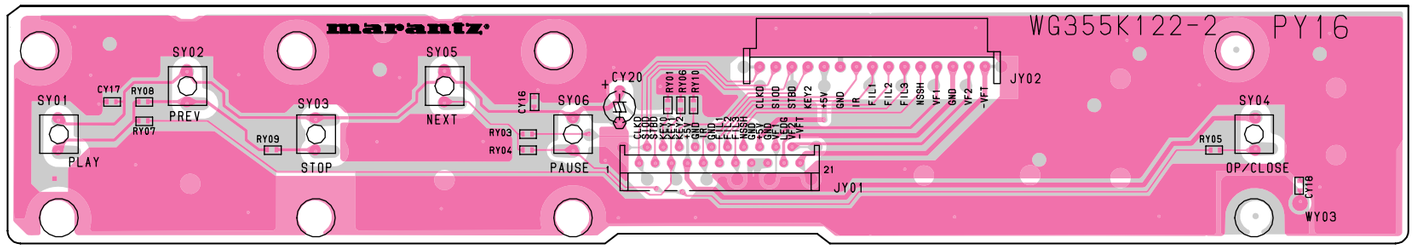
QY01 QY02 QY04 QY03 QY07 ~ QY10



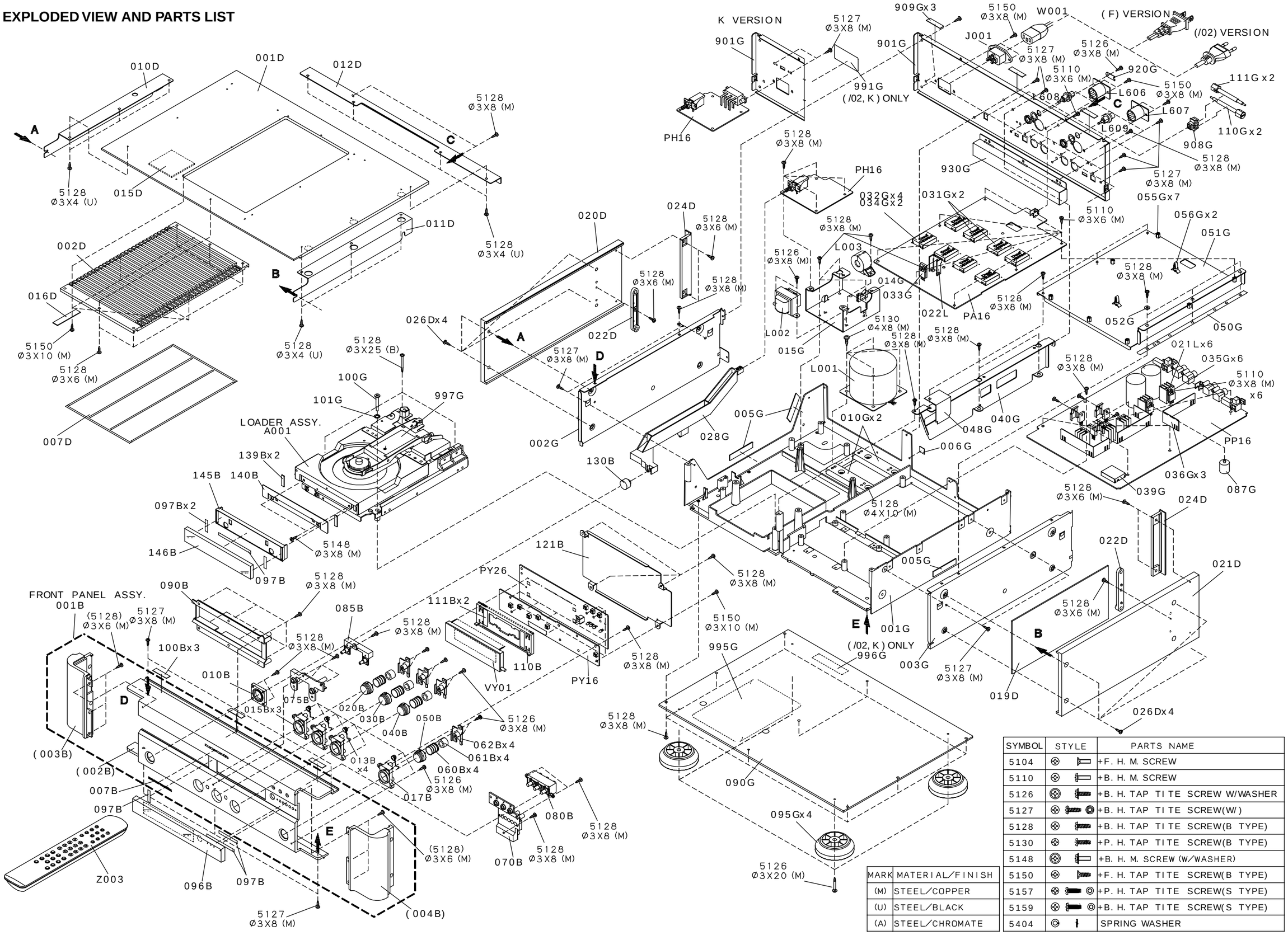
PH16



PY26



10. EXPLODED VIEW AND PARTS LIST



MARK	MATERIAL/FINISH
(M)	STEEL/COPPER
(U)	STEEL/BLACK
(A)	STEEL/CHROMATE

SYMBOL	STYLE	PARTS NAME
5104		+F. H. M. SCREW
5110		+B. H. M. SCREW
5126		+B. H. TAP TITE SCREW W/WASHER
5127		+B. H. TAP TITE SCREW(W/)
5128		+B. H. TAP TITE SCREW(B TYPE)
5130		+P. H. TAP TITE SCREW(B TYPE)
5148		+B. H. M. SCREW (W/WASHER)
5150		+F. H. TAP TITE SCREW(B TYPE)
5157		+P. H. TAP TITE SCREW(S TYPE)
5159		+B. H. TAP TITE SCREW(S TYPE)
5404		SPRING WASHER

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /**:EUROPE)

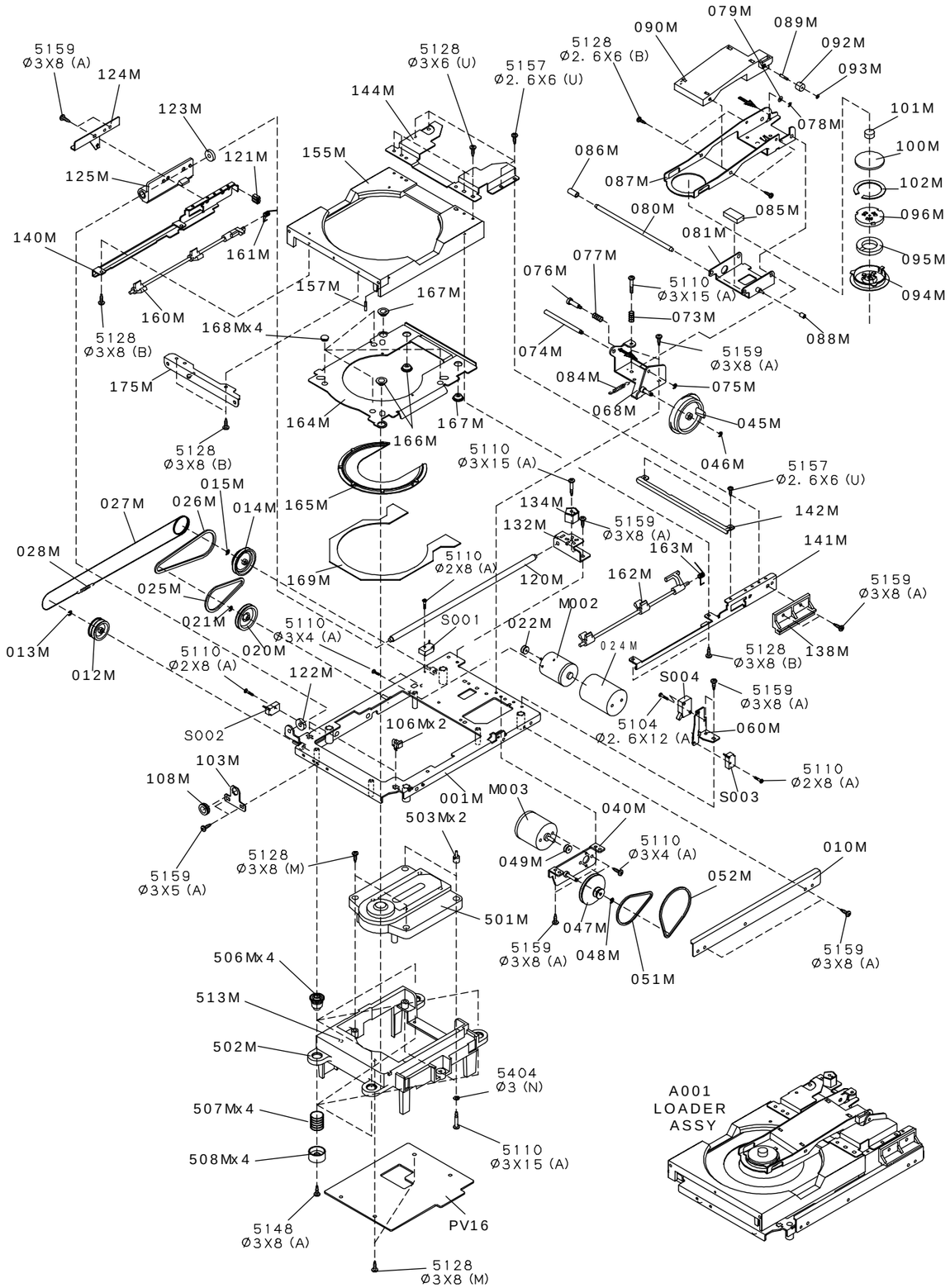
POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
002B		4822 459 05285	FRONT PANEL	355K248110
003B		4822 426 10823	ESCUTCHEON, FRONT SIDE PIECE LEFT GLD	355K063110
004B		4822 426 10824	ESCUTCHEON, FRONT SIDE PIECE RIGHT GLD	355K063120
007B		4822 454 13454	BADGE, META-LETTER MARANTZ SILVER	208J251010
010B		4822 463 11251	BUSHING, POWER BUTTON	355K259040
013B		4822 492 71359	SPRING, RETAINER BUTTON GROUND	270K115030
015B		4822 463 11252	RETAINER, BUSH BUTTON PLAY STOP PAUSE	355K104120
017B		4822 532 40221	RETAINER, BUSH BUTTON OPEN/CLOSE	270K104010
020B		4822 410 12398	BUTTON, ASSY PLAY GLD	355K270520
030B		4822 410 12399	BUTTON, ASSY STOP GLD	355K270530
040B		4822 410 12401	BUTTON, ASSY PAUSE GLD	355K270540
050B		4822 410 12402	BUTTON ASSY, OPEN/CLOSE	355K270550
060B		4822 492 71357	SPRING, BUTTON LARGE	270K115010
061B		4822 462 71931	BUFFER,	270K056010
070B		4822 463 11253	BUSHING, FILTER BUTTON/LED	355K259020
075B		4822 463 11254	BUSHING, TRACK BUTTON	355K259030
080B		4822 410 12403	BUTTON, FILTER	355K270170
085B		4822 410 12404	BUTTON, TRACK	355K270160
096B		4822 450 10643	WINDOW, GLASS,PINK SMOKE	355K158010
130B		4822 410 12405	BUTTON, POWER ASSY GLD	355K270510
146B		4822 442 01801	ESCUTCHEON, TRAY LID GLASS	355K063030
001D			LID, TOP COVER	355K257110
002D			ESCUTCHEON, LOUVER TOP COVER GLD	231J063110
020D			SIDE PANEL, LEFT GLD	355K249110
021D			SIDE PANEL, RIGHT GLD	355K249120
024D		4822 454 30488	ESCUTCHEON, SIDE PANEL	270K063050
028G		4822 402 11299	LINK, POWER SW. LINK	355K121010
095G		4822 462 42132	LEG, U D60	163J057220
100G			SCREW, 001G + A001 PIVOT	355K010010
A001		4822 691 10787	LOADER ASSY VAM1252	355K304520
⚠ J001		4822 265 11399	JACK, 2P AC INLET SOT-16C	YJ04002360
J081	K	4822 265 10092	JACK, AC ADAPTER.SMK S-16116	YJ04001240
⚠ L001	F		MAINS TRANSFORMER 100V	TS46010010
⚠ L001	K		MAINS TRANSFORMER 110/220V	TS46010040
⚠ L001	/02	4822 146 11139	MAINS TRANSFORMER 230V	TS46010020
⚠ L002	F		SUB TRANSFORMER 100V	TS13521010
⚠ L002	K		SUB TRANSFORMER 110/220V	TS13521040
⚠ L002	/02	4822 146 11141	SUB TRANSFORMER 230V	TS13521020
L003			FERRITE CORE, TFCK-23-11-14	FC50230010
L004			FERRITE CORE, HF70SH28X2X10	FC90280010
L005	F		FERRITE CORE, ZCAT1518-0730	FC50150020
L006	F		FERRITE CORE, ZCA1518-0730	FC50150020
W001	F	4822 321 11337	MAINS CORD, 125V	ZC01802080
W001	K		MAINS CORD, 2.5A 250V	ZC01803090
W001	/02	4822 321 11439	MAINS CORD, 10A 250V	ZC01803080

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PACKING	
001T	F		USER GUIDE	355K851110
001T	K		USER GUIDE	355K851350
001T	/02	4822 736 16822	USER GUIDE	355K851310
Z003		4822 219 10702	REMOTE COMMANDER, RC-D7CD	ZK355K0010
			NOT STANDARD SPARE PARTS	
001S			PACKING CASE, HI-FI GL	355K801020
002S			CUSHION, FRONT	270K809010
003S			CUSHION, REAR	270K809020
009S			PROTECTOR, COVER	355K269010
Z001			BATTERY, UM-4NEPH/2S	ZF24302000
Z002			CONNECTIVE CORD,	ZD01000680
			RCA CABLE ASSY	

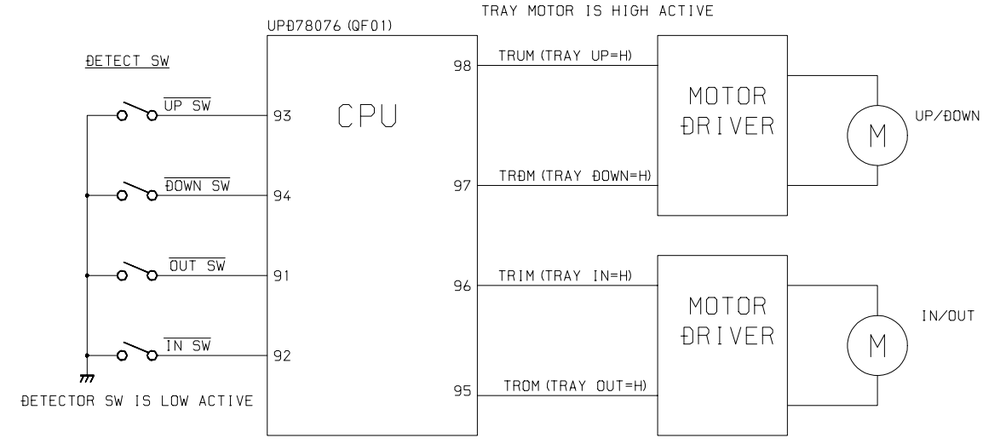
(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /**:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
A001		4822 691 10787	LOADER ASSY VAM1252	355K304520
012M		4822 528 81163	PULLEY, WIRE WHEEL F	167K262010
013M		4822 530 70043	RG RING E, WHEEL	64002500R0
014M		4822 528 81387	PULLEY, WIRE WHEEL R	221K262010
015M		4822 530 70043	RG RING E, WHEEL R	64002500R0
020M		4822 528 81238	PULLEY, MIDDLE TRAY DRIVE	167K262050
021M		4822 530 70043	RG RING E, E MIDDLE PULLEY	64002500R0
022M		4822 528 81166	PULLEY, MOTOR	167K262040
024M			COVER, MOTOR	225K053010
025M		4822 358 30762	BELT, MOTOR	167K264010
026M		4822 358 31065	BELT, TRAY DRIVE	221K264010
027M		4822 321 30374	JOINT, WIRE ROPE	221K125010
028M		4822 492 33161	SPRING, WIRE TENSION	221K115030
045M		4822 528 30392	CAM, CLAMPER DRIVE	221K054010
046M		4822 530 70043	RG RING E, E 045M + 070M	64002500R0
047M		4822 528 81164	PULLEY, CLAMPER MIDDLE	167K262020
048M		4822 530 70043	RG RING E, E MIDDLE PULLEY	64002500R0
049M		4822 528 81166	PULLEY, MOTOR	167K262040
051M		4822 358 30762	BELT, MOTOR	167K264010
052M		4822 358 30763	BELT, CAM DRIVE	167K264020
073M		4822 492 70628	SPRING, DOWN ADJUSTER	167K115060
074M			SHAFT, CLAMPER BEARING	221K112010
075M		4822 530 70043	RG RING E, BEARING SHAFT	64002500R0
076M		4822 535 93105	SHAFT, L/R ADJUSTER	221K112020
077M		4822 492 70631	SPRING, L/R ADJUSTER	221K115050
078M		4822 530 70122	RG RING E, E ADJUSTER END	64000200R0
079M		4822 532 52236	WASHER	221K012010
080M		4822 535 92575	SHAFT, TO DRIVE 160M,162M	167K112040
081M		4822 402 61335	LEVER, CLAMPER DRIVE K	221K354520
084M		4822 492 70629	SPRING, CLAMPER PULL DOWN	221K115020
086M			COLLAR, TO 080M	225K055010
087M			LEVER, CLAMPER	221K354010
088M		4822 528 90837	ROLLER	221K358030
089M		4822 535 93288	SHAFT	221K112150
090M		4822 256 91866	HOLDER, CLAMPER ARM	221K271010
092M		4822 528 90836	ROLLER	221K358020
093M		4822 532 51467	STOPPER	316Y114010
094M		4822 256 10563	CLAMPER, MAGNET CASE	355K005010
095M		4822 526 10726	MAGNET	355K305010
096M		4822 528 90783	COVER, YOKE FOR MAGNET	221K053010
100M		4822 462 71811	BUFFER, CLAMPER	167K056110
101M		4822 462 71809	BUFFER, CLAMPER TOP	158K056140
102M		4822 466 61927	BUFFER, CLAMPER TOP	225K056030
106M		4822 256 91867	HOLDER, TRAY FRONT SUPPORT	221K271020
108M		4822 532 30509	BUSHING, FRONT GUIDE	225K259010
120M			SHAFT, TRAY GUIDE	221K112060
121M			BUFFER, TRAY IN-END	221K056040
122M			BUFFER, TRAY 0UT-END	221K056050
123M			BUFFER, TRAY IN-END	221K056060
125M		4822 256 91196	HOLDER, SLIDE BEARING K	167K271500
134M			STOPPER, TRAY ADJUST	221K114010
138M		4822 256 91195	HOLDER, SLIDE GUIDE RIGHT	167K271010
140M			BRACKET, TRAY LEFT SIDE	
141M			BRACKET, TRAY RIGHT SIDE	
142M			STAY, REINFORCEMENT L/R	
144M			BRACKET, ADDITIONAL	

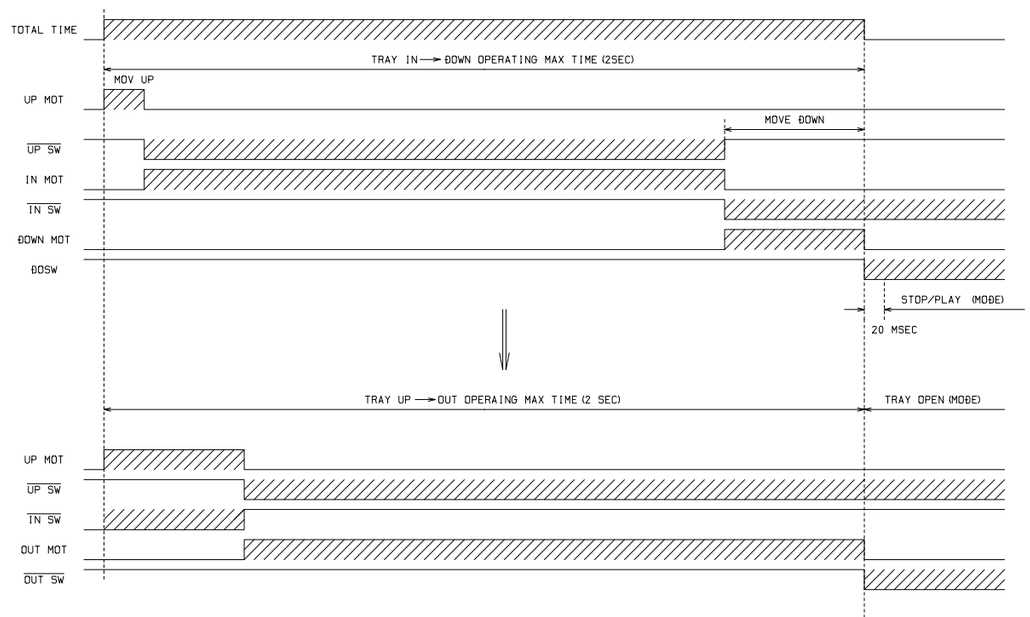
POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
155M		4822 441 12323	CASE, TRAY BLK	167K064140
157M		4822 535 92576	SHAFT, TRAY GUIDE PINS	167K112050
160M		4822 402 61089	LEVER, TRAY LIFT LEFT	167K354500
161M		4822 492 70633	SPRING, TRAY LIFT LEFT	221K115070
162M		4822 402 61091	LEVER, TRAY LIFT RIGHT	167K354510
163M		4822 492 70632	SPRING, TRAY LIFT RIGHT	221K115060
164M		4822 418 10424	TRAY, U/D DISC BLK	355K163010
165M		4822 418 10425	TRAY, SINGLE VAM1252	355K163020
166M		4822 532 11697	BUSHING, TRAY GUIDE	167K259010
167M		4822 532 21323	BUSHING, TRAY GUIDE	167K259020
168M		4822 532 11698	BUSHING, DISC BUFFER	167K259040
169M			BUFFER, SILENCER SHEET	355K056010
501M		4822 691 10788	MECHANISM, VAM 1252	355K304600
502M		4822 691 10789	CASE, MECHA VAM 1252	355K064010
503M			SHAFT, SUB-FIX AND TRAY GUIDE	221K112040
506M		4822 532 21452	BUSHING, SUSPENSION RUBBER	221K259010
507M		4822 492 11745	SPRING, SUSPENSION	355K115010
508M		4822 530 70561	RETAINER, SUSPENSION SPRING STOPPER	221K104020
512M		4822 530 80349	SPRING WASHER, FOR 504M	54040302N0
513M			SPACER, 502M,TO 169M,170M	291K118030
M002		4822 361 60467	D.C MOTOR, TRAY DRIVE	MM00800010
M003		4822 361 60447	D.C MOTOR, CLAMPER DRIVE	MM01200130
S001		4822 277 21132	SLIDE SW., TRAY IN END SMK	SS01020590
S002		4822 277 21132	SLIDE SW., TRAY OUT END SMK	SS01020590
S003		4822 277 21132	SLIDE SW., CLAMPER DOWN END SENSOR	SS01020590
S004		4822 271 30712	MINI SW., CLAMPER UP END SENSOR	SM01020550



TRAY OPERATE IS FOLLOWING



TRAY TIMING

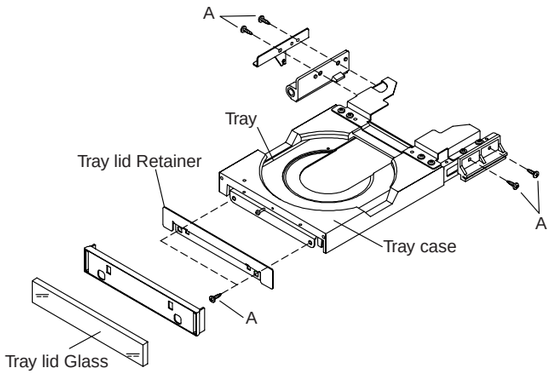


11. TRAY MECHANISM ADJUSTMENTS

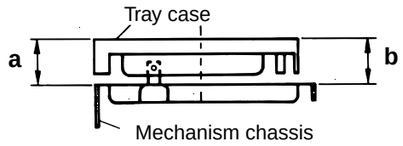
1. When mounting tray and tray case

(when replacing tray case because of damage etc.)

a) When the tray has been positioned improperly with a deviated clearance to the front panel window, re-move the tray lid, loosen screws A and adjust by moving the tray frame within the range of the holes play.



For the tray tilt adjustment. refer to the figure below.

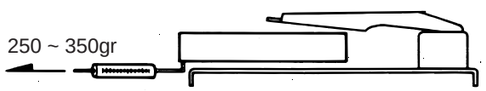


a = **b** = 29.0 ± 0.2
a - **b** ≦ ±0.2

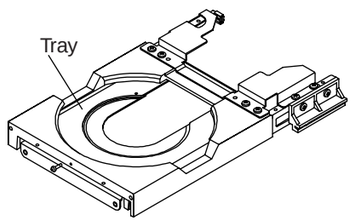
Front side

Adjust the tilt with screws A.

b) The operating power of the tray is set to 250 - 350gr (Power OFF).



2. When the tray Is disengaged to the lower side

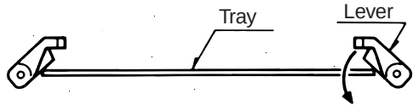


When the tray is pushed downward without the sub-chassis (VAM1252), it will be disengaged. So care will be necessary.

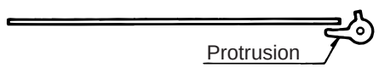
(Closing the tray without the sub-chassis also disengages the tray.)

Mount the tray referring to the figures below.

a) Bring down the lever and put the tray on the protrusion of lever.



b) While holding the tray, bring down the opposite lever and put the tray on the protrusion of the lever.



Note :

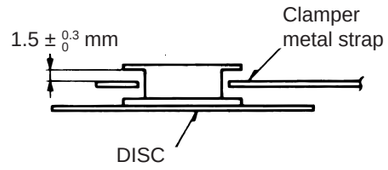
If both the levers are brought down at the same time, the tray cannot be raised. The levers should be brought down one by one.

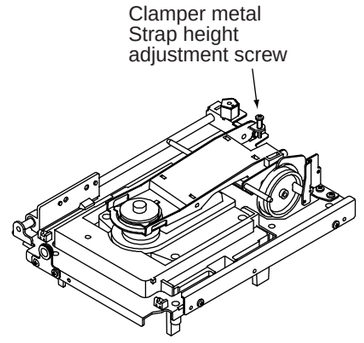
If the tray is forced to move to the original position, the two pins injected into the tray case may be bent.

3. When replacing the sub-chassis (VAM1252)

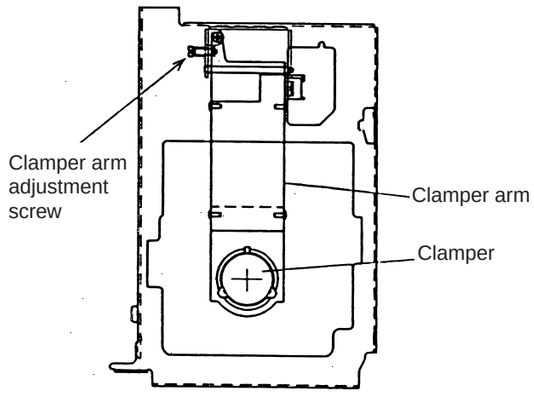
a) The height of the sub-chassis turn table is different one by one. Adjust each turn table height so that the magnet clamper does not touch the clamper metal strap as shown in the figure.

Standard (1.5+0.3 / -0 mm)



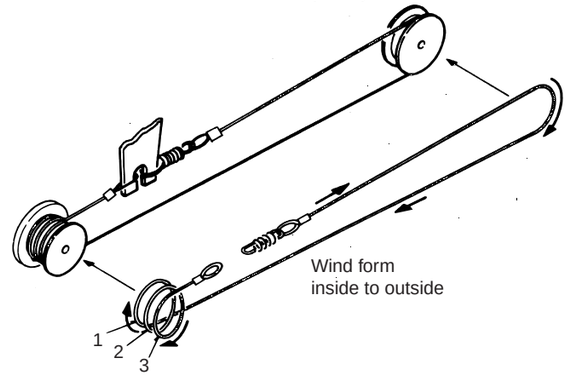


b) After replacing the sub-chassis, readjust so that the magnet clamper does not touch the clamper metal strap at right and left sides. (The clamper metal strap should not be touched to other straps.)



4. Others

a) For the loading wire winding, refer to the figure be-low.
Wind from inside to outside (1 2 3).



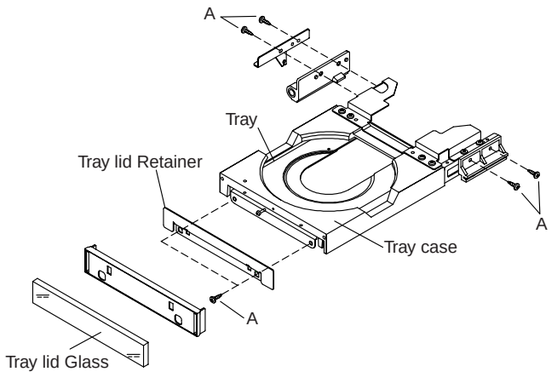
b) When the magnet clamper (094M) is replaced, bent the narrowest tab and remove the clamper.
Bend the narrowest tab.

11. トレーメカニズムの調整

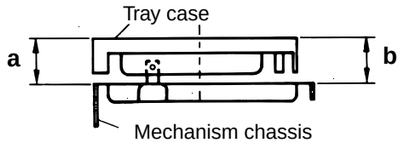
1. トレーおよびトレーケース取り付け時

（破損等でトレーケースを交換した場合等）

a) トレーのフロントパネル窓に対する位置の狂いが発生した時はトレー蓋を外し、 ネジ A をゆるめ穴のガタの範囲でトレー枠を動かし調整して下さい。



トレーの傾きについては下図を参考にしてください。

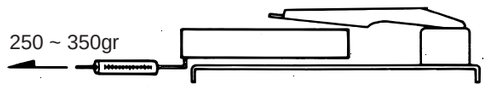


a = **b** = 29.0 ± 0.2
a - **b** ≦ ±0.2

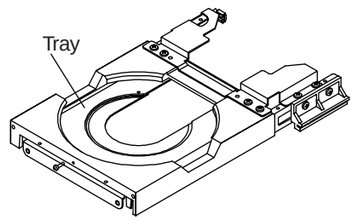
Front side

傾きもネジ A にて調整します。

b) トレーの動作力は、 250～350grの設定です。
（電源OFF時）



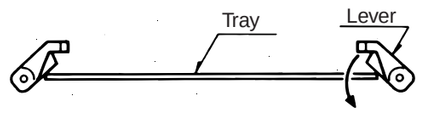
2. トレーが下側に外れた時



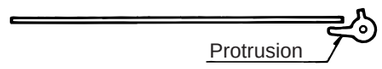
次の条件では、 トレーが下側に外れるので注意願います。サブシャーシ (VAM1252) が無い状態にてトレーを下側に押すと外れます。
（サブシャーシが無い状態にてCLOSEした時も同様です。）

下図の要領にて取り付けてください。

a) レバーを下げて、 レバーの突起にトレーをのせます。



b) のせたら、 トレーを押さえたまま反対側のレバーを下げて、突起にのせます。

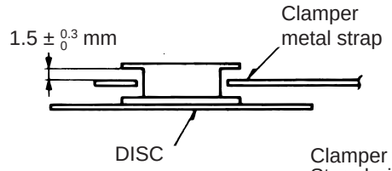


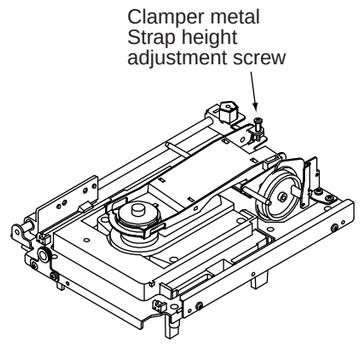
［注意］

左右、 2つのレバーを一度に下げても、トレーは上げられませんので、 必ず片方づつ下げて作業してください。 トレーを無理に元の位置まで戻すと、トレーケースに圧入されている2本のピンが曲がる危険があります。

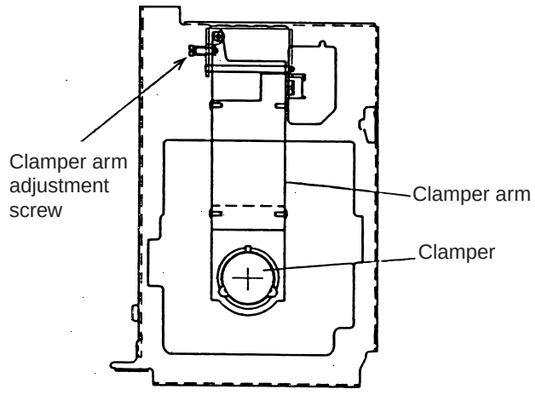
3. サブシャーシ （VAM1252） を交換した時

a) サブシャーシのターンテーブル高さは1台ずつ違いますので、ターンテーブルの高さに合わせて下図のように、マグネットクランパーがクランパー金具に接触しないように、クランパー金具高さ調整ネジを調整して下さい。
規格 （1.5 +0.3 / -0 mm）



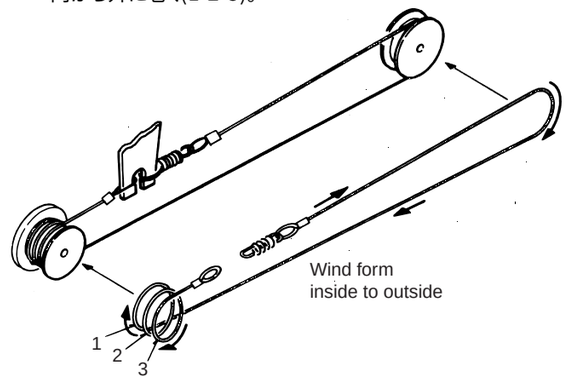


b) サブシャーシ交換後、 マグネットクランパーがクランパー金具に左右接触しないように、クランパーアーム調整ネジ を再調整して下さい。 （その際、クランパー金具と他の金具とが接しない様にする事）

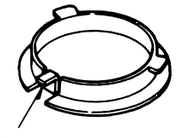


4. その他

a) ローディングワイヤーの巻き付けは下図参照ください。
内から外に巻く(1 2 3)。

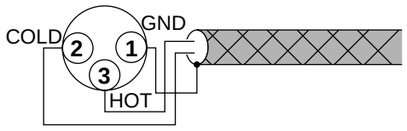


b) マグネットクランパー （094M)の交換は1ケ所曲がる構造の爪となっていますので、 爪を傾けて取り外し、 取り付けてください。一番幅の細い爪が傾きます。

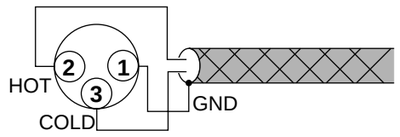


12. BALANCED JACKS

1. The balanced output connector uses a XLR connector.
2. The XLR connector for professional use is internally wired in either of the following two systems.
   1. USA system (PIN 2 = COLD, PIN 3 = HOT)



   2. European system (PIN 2 = HOT, PIN 3 = COLD)



3 The CD-7 uses the USA system of 1.
When a preamp or main amplifier adopting the European system is connected using a cable with XLR balanced connectors, the reproduced signal may be inverted of phase.
In this case, correct the wiring of the one of the XLR connectors on the extremities of the cable to the USA system by exchanging the connections of pins 2 and 3.
This will make it possible to play the signal with the correct phase.

12. BALANCED 端子について

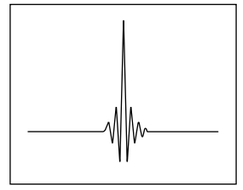
1 BALANCED 端子には XLR コネクターを使用しています。
2 XLR コネクターの接続方法は、プロフェッショナル用としてタイプが二通りあります。
1.USA 方式（2 PIN=COLD 3 PIN=HOT）

2. ヨーロッパ方式（2 PIN=HOT 3 PIN=COLD）

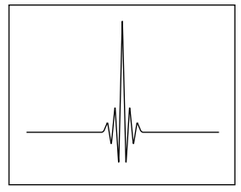
3 CD-7 では、1. の USA 方式を採用しています。
XLR BALANCEDケーブルを使用する場合、ヨーロッパ方式を採用しているプリアンプやメインアンプで再生した場合、信号が逆位相になる場合があります。
その場合は、片側のXLRコネクターの２PINと３PINをUSA方式となるようにつなぎ換えてください。
これで信号は正しい位相で再生されます。

13. DIGITAL FILTER

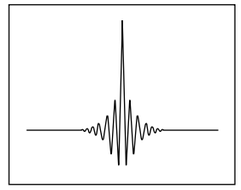
FILTER-1
For playing music with smooth depth, such as analog records.



FILTER-2
A sound between FILTER-1 and FILTER-3.



FILTER-3
A well-balanced, standard sound for all sources.



Changing the Filter Type
FILTER-1 is selected automatically when the power is turned on.
Press the FILTER button to switch to FILTER-2, again to switch to FILTER-3, and a third time to switch back to FILTER-1.

13. デジタルフィルターについて

FILTER-1
インパルス応答では、プリエコーの少ない特性です。アナログレコードのような滑らかな奥行きのある音質傾向です。

FILTER-2
インパルス応答では、プリエコー、アフターエコー共に少ない特性です。フィルター（FILTER-1とFILTER-3）の両方の特性を合せ持ったバランスの音質傾向です。

FILTER-3
インパルス応答では、プリエコー、アフターエコーが均等にある特性です。ソースを選ばないリファレンス的な音質傾向です。

フィルタータイプ変更（FILTER）
電源スイッチ ON 後の状態は、優先的に FILTER-1 がセレクトされています。
FILTER ボタンを一度押す度に、FILTER-2、FILTER-3 と切替わり、三度めに FILTER-1 に戻ります。
選択した FILTER のインジケーターが点燈します。

14. EXPLANATION OF DSP

The digital processing for DSP-1/DSP-2 (DSP56004) is the following compositions.

1. DSP-1 (Q507)
Mute (32-Sample<cosine curve> approx. 0.7mS)
-12dB attenuation (It is not available for CD-7)
De-emphasis (44k / 48k mode)
DC-Filter ON/OFF (It is fixed for CD-7)
Signal format (IIS-IN/OUT)

2. DSP-2 (Q509)
Digital filter (4fs<FIR>, 3Type-mode)
Noise shaper (first order) and Round
Offset of Output-DATA
Signal format (IIS-IN/OUT)

Procedure of DSP
The DSP56004 (Q507/Q509) loads data of ROM (Q506/Q508) at that moment of the product is POWER ON. The all parameters of default setting will be done approx. 0.5 seconds. And then, each DSP device starts digital processing by each parameter.

The product is set in Filter-1 of CD-mode initially when POWER ON.
When the filter and the noise shaper is shifted and the sampling frequency is shifted to other frequency except 44.1kHz, Those parameters are changed to other parameters.
REMARK : The change of the sampling frequency depend on the input of digital signal.

These changes of parameters are based on the function tables of ROM-1 and ROM-2 (Figure 1). Each function of DSP-1 and DSP-2 actuates individually.
If signals are confirmed at the input or output pins of DSP, that is actuated for DSP.
The setting confirmation of each mode after the parameter updated, which will be able to refer to the impulse signals of timing chart (Figure 2).

When mute or de-emphasis is switched, the parameters is not changed.
Because these switches control the pins of DSP devise (Q507) directly.
Then, the following status are confirmed by the pin control status.

Mute Pin 73(Q507) : High = on, Low = off
De-emphasis Pin 74(Q507) : High = on, Low = off

14．DSP の説明

DSP56004によるデジタル処理は以下2ブロック構成になっています。

1.DSP1(Q507)
- ●ミュート機能(コサインカーブによる 32-Sample 約 0.7mS)。
- ● -12dB アッテネーション機能(CD-7 使用せず)。
- ●ディエンファシス機能(44k/48k)。
- ● DC-Filter 機能。ON/OFF 可能(CD-7 では固定)。
- ●信号フォーマット(IIS-IN/OUT)。

2.DSP2(Q509)
- ●デジタルフィルター機能(FIR による 4fs、3Type-mode)。
- ●ノイズシェーパー機能(first order)及びラウンド。
- ● Output-DATA のオフセット機能。
- ●信号フォーマット(IIS-IN/OUT)。

DSP の動作説明
DSP56004(Q507/Q509)は電源 ON にした時、リセット状態から立ち上がる際に ROM(Q506/Q508)のデータをロードします。
この間約0.5secでディフォルトのパラメーターの設定を全て完了します。
完了すると各DSPはそれぞれのパラメーターによるデジタル処理を開始します。

電源 ON にした時はイニシャルで CD- モードの Filter-1 が設定されます。
操作ボタンによるFilterとノイズシェーパーの変更及びサンプリング周波数の切り換えの場合に限り、新たなパラメーターによるデジタル処理に切り変わります。
これらのパラメーターの変更はROM-1とROM-2の真理表(Table 1)によって決定されます。真理表からわかるように、それぞれの機能は DSP-1 と DSP-2 によって、個別に動作します。
また、DSPが動作してるかどうかは、DSPの入出力ピンに信号が出ていることで確認できます。パラメーターの更新がされてそれぞれのモードに設定されたかどうかは、パラメーターの更新シーケンスのタイムチャート(Figure 2)のインパルス信号の特性によって確認をします。

ミュートとディエンファシスのON/OFFではパラメーターの再設定は行いません。これらの切り換えは DSP(Q507)の端子を直接コントロールしています。従って、Pin をコントロールする事により下記の状態を確認できます。

ミュート :Pin 73(Q507)=High でオン、Low でオフ。
ディエンファシス :Pin 74(Q507)=High でオン、Low でオフ。

Table 1

ROM-1

A14	A13	A12	A11	FUNCTIONS
L	L	L	L	44kHz mode
L	L	L	H	---- mode
L	L	H	L	48kHz mode

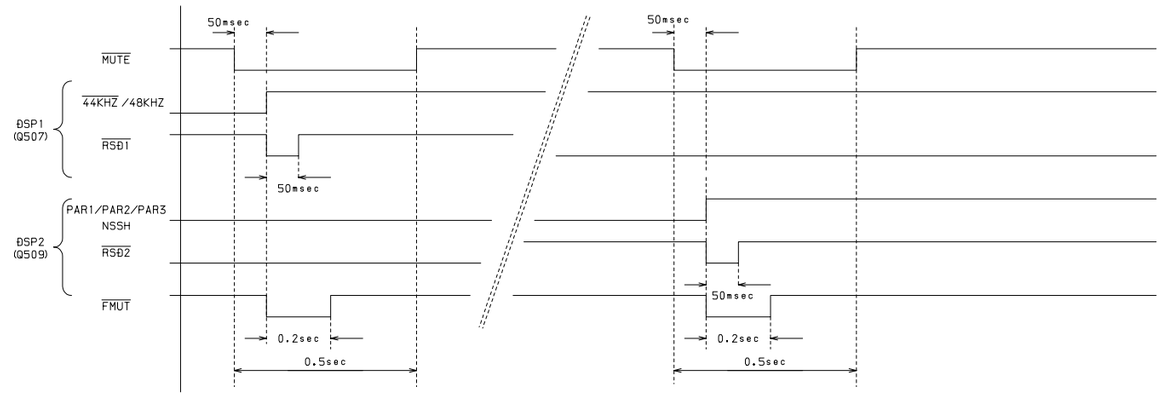
ROM-2

A15	A14	A13	A12	FILTERS (PARAMETER)
X	L	L	L	FIL3 (44.1kHz COEFFICIENT)
X	L	L	H	FIL2 (44.1kHz COEFFICIENT)
X	L	H	L	FIL1 (44.1kHz COEFFICIENT)
X	L	H	H	----
X	H	L	L	FIL3 (48kHz COEFFICIENT)
X	H	L	H	FIL2 (48kHz COEFFICIENT)
X	H	H	L	FIL1 (48kHz COEFFICIENT)
X	H	H	H	----

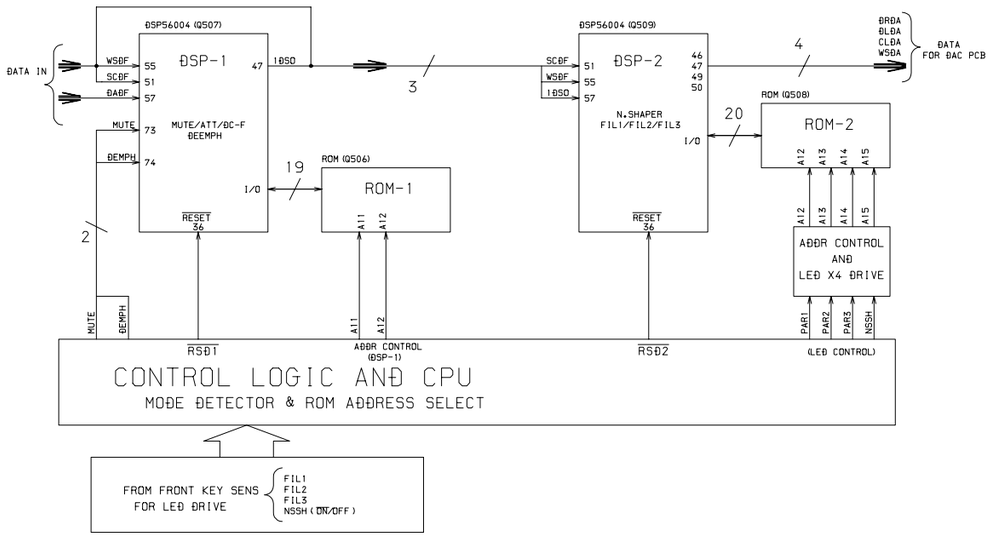
NOTE:A15 IS USED TO SWITCH ON/OFF THE NOISE SHAPER (LOW=OFF)

Figure 1

DSP PARAMETER SETTING TINING



2-DSP CONTROL FLOW AND DATA STREAM



15. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R✻✻✻: 1) GD05 × × × 140, Carbon film fixed resistor, ±5% 1/4W
R✻✻✻: 2) GD05 × × × 160, Carbon film fixed resistor, ±5% 1/6W
① —— Resistance value

Examples ;
① Resistance value

0.1 Ω 001	10 Ω 100	1 kΩ 102	100 kΩ 104
0.5 Ω 005	18 Ω 180	2.7 kΩ 272	680 kΩ 684
1 Ω 010	100 Ω 101	10 kΩ 103	1 MΩ 105
6.8 Ω 068	390 Ω 391	22 kΩ 223	4.7 MΩ 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C✻✻✻: CERAMIC CAP.
3) DD1 × × × × 370, Ceramic capacitor
② ③ Disc type
Temp.coeff.P350 ～N1000, 50V
Capacity value
Tolerance

Examples ;
② Tolerance (Capacity deviation)
±0.25 pF 0
±0.5 pF 1
±5% 5
✻ Tolerance of COMMON PARTS handled here are as follows :
0.5 pF～ 5 pF .... ±0.25 pF
6 pF～ 10 pF .... ±0.5 pF
12 pF～ 560 pF .... ±5%
③ Capacity value

0.5 pF 005	3 pF 030	100 pF 101
1 pF 010	10 pF 100	220 pF 221
1.5 pF 015	47 pF 470	560 pF 561

C✻✻✻ : CERAMIC CAP.
4) DK16 × × × 300, High dielectric constant ceramic capacitor
④ Disc type
Temp.chara. 2B4, 50V
Capacity value

Examples ;
④ Capacity value

100 pF 101	1000 pF 102	10000 pF 103
470 pF 471	2200 pF 222	

C✻✻✻ : 5) ELECTROLY CAP. (⧺), 6) FILM CAP. (⧻)
5) EA × × × × × × 10, Electrolytic capacitor
⑤ ⑥ One-way lead type, Tolerance ±20%
Working voltage
Capacity value

Examples ;
⑤ Capacity value

0.1 µF 104	4.7 µF 475	100 µF 107
0.33 µF 334	10 µF 106	330 µF 337
1 µF 105	22 µF 226	1100 µF 118
		2200 µF 228

⑥ Working voltage

6.3V 006	25V 025
10V 010	35V 035
16V 016	50V 050

6) DF15 × × × 350 → Plastic film capacitor
DF15 × × × 310 → One-way type, Mylar ±5% 50V
DF16 × × × 310 → Plastic film capacitor
⑦ One-way type, Mylar ±10% 50V
Capacity value

Examples ;
⑦ Capacity value

0.001 µF (1000 pF) 102	0.1 µF 104
0.0018 µF 182	0.56 µF 564
0.01 µF 103	1 µF 105
0.015 µF 153	

NOTE : 1) The above CODES (R✻✻✻ , R✻✻✻ , C✻✻✻ , C✻✻✻ and C ✻✻✻) are omitted on the schematic diagram in some case.
2) On the occasion, be confirmed the common parts on the parts list.
3) Refer to “Common Parts List” for the other common parts (**RI05**, **DD4**, **DK4**).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

1. KOA Corporation

Part No. (MJI)	Type No. (KOA)	Description
NH05 × × × 140	RF25S × × × × ΩJ	(±5% 1/4W)
NH05 × × × 120	RF50S × × × × ΩJ	(±5% 1/2W)
NH85 × × × 110	RF73B2A × × × × ΩJ	(±5% 1/10W)
NH95 × × × 140	RF73B2E × × × × ΩJ	(±5% 1/4W)

✻ Resistance value — Resistance value (0.1 Ω – 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No. (MJI)	Type No. (MEC)	Description
NF05 × × × 140	ERD-2FCJ × × ×	(±5% 1/4W)
RF05 × × × 140		
NF02 × × × 140	ERD-2FCG × × ×	(±2% 1/4W)
RF02 × × × 140		

✻Resistance value — ✻Resistance value

Examples ;
✻Resistance value

0.1 Ω 001	10 Ω 100	1 kΩ 102	100 kΩ 104
0.5 Ω 005	18 Ω 180	2.7 kΩ 272	680 kΩ 684
1 Ω 010	100 Ω 101	10 kΩ 103	1 MΩ 105
6.8 Ω 068	390 Ω 391	22 kΩ 223	4.7 MΩ 475

ABBREVIATION AND MARKS

ANT.	: ANTENNA	BATT.	: BATTERY
CAP.	: CAPACITOR	CER.	: CERAMIC
CONN.	: CONNECTING	DIG.	: DIGITAL
HP	: HEADPHONE	MIC.	: MICROPHONE
µ-PRO	: MICROPROCESSOR	REC.	: RECORDING
RES.	: RESISTOR	SPK	: SPEAKER
SW	: SWITCH	TRANSF.	: TRANSFORMER
TRIM.	: TRIMMING	TRS.	: TRAMSISTOR
VAR.	: VARIABLE	X'TAL	: CRYSTAL

NOTE ON SAFETY :

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 ：

⚠ がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /✻✻:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PA16-DAC/HDAM CIRCUIT BOARD	
			PA16-CAPACITORS	
CD01		4822 124 41539	ELECT 47µF ±20% 16V	OA47601620
CD02		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CD03	F		FILM 680pF ±5% 100V CHIP	OF55681540
CD03	K /02	4822 121 70319	FILM 470pF ±5% 50V	OF15471030
CD05				
∫		4822 121 10867	FILM 0.1µF ±5% 100V CHIP	OF55104540
CD18				
CD19		4822 126 12061	CER. 0.1µ F ±10% 25V CHIP	DK56104200
CD20	F	4822 124 22238	ELECT 100µF 25V	OA10702550
CD20	K /02	4822 124 80119	ELECT 100µF 25V	OA10702540
CD21		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CD22		4822 124 22238	ELECT 100µF 25V	OA10702550
CD23		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CD24		4822 124 22238	ELECT 100µF 25V	OA10702550
CD27		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
CD28		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510
CD29		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
CD37		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
CD38		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510
CD39		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
CD51		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CD53	F		FILM 680pF ±5% 100V CHIP	OF55681540
CD53	K /02	4822 121 70319	FILM 470pF ±5% 50V	OF15471030
CD55				
∫		4822 121 10867	FILM 0.1µF ±5% 100V CHIP	OF55104540
CD68				
CD69		4822 126 12061	CER. 0.1µF ±10% 25V CHIP	DK56104200
CD70	F	4822 124 22238	ELECT 100µF 25V	OA10702550
CD70	K /02	4822 124 80119	ELECT 100µF 25V	OA10702540
CD71		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CD72		4822 124 22238	ELECT 100µF 25V	OA10702550
CD73		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CD74		4822 124 22238	ELECT 100µF 25V	OA10702550
CD77		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
CD78		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510
CD79		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
CD87		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
CD88		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510
CD89		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
C401		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510
C402		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
C403		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
C405		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
C407	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C407	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C408	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C408	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C421		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510
C422		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
C423		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
C425		4822 123 30361	MICA 0.1µF +-80%-20% CHIP	DF95560500
C427	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C427	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C428	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C428	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C451		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510
C452		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
C453		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
C455		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
C457	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C457	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C458	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C458	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C471		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510
C472		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C473		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
C475		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
C477	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C477	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C478	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C478	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C602		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
C603		4822 123 30422	MICA 33pF 500WV CHIP	DF95330500
C604		4822 124 80123	ELECT 220µF 16V	OA22701640
C605		4822 124 80123	ELECT 220µF 16V	OA22701640
C606		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
C611	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C611	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C612	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C612	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C632		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
C633		4822 123 30422	MICA 33pF 500WV CHIP	DF95330500
C634		4822 124 80123	ELECT 220µF 16V	OA22701640
C635		4822 124 80123	ELECT 220µF 16V	OA22701640
C636		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
C637	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C637	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C638	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C638	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C702		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
C703		4822 123 30422	MICA 33pF 500WV CHIP	DF95330500
C704		4822 124 80123	ELECT 220µF 16V	OA22701640
C705		4822 124 80123	ELECT 220µF 16V	OA22701640
C712		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
C713		4822 123 30422	MICA 33pF 500WV CHIP	DF95330500
C714		4822 124 80123	ELECT 220µF 16V	OA22701640
C715		4822 124 80123	ELECT 220µF 16V	OA22701640
C716		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
C717		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
C721	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C721	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C722	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C722	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C736		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
C737		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
C752		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
C753		4822 123 30422	MICA 33pF 500WV CHIP	DF95330500
C754		4822 124 80123	ELECT 220µF 16V	OA22701640
C755		4822 124 80123	ELECT 220µF 16V	OA22701640
C756	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C756	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C757	F	4822 124 22242	ELECT 470µF 25V	OA47702550
C757	K /02	4822 124 80958	ELECT 470µF 16V	OA47701640
C772		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
C773		4822 123 30422	MICA 3pF 500WV CHIP	DF95330500
C774		4822 124 80123	ELECT 220µF 16V	OA22701640
C775		4822 124 80123	ELECT 220µF 16V	OA22701640
			PA16-RESISTORS	
RD11		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
RD12		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
RD13		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD14		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD15		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD16		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD17		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
RD18		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD19		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD20			10.0Ω ±1% 1/4W	GM114100G0
RD21			10.0Ω ±1% 1/4W	GM114100G0
RD22			1.62kΩ ±1% 1/4W	GM11416210
RD31		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
RD32		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /**:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RD33		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD34		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD35		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD36		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD37		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
RD38		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD39		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD40			10.0Ω ±1% 1/4W	GM114100G0
RD41			10.0Ω ±1% 1/4W	GM114100G0
RD42			1.62kΩ ±1% 1/4W	GM11416210
RD51		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
RD52		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
RD53		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD54		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD55		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD56		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD57		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
RD58		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD59		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD60			10.0Ω ±1% 1/4W	GM114100G0
RD61			10.0Ω ±1% 1/4W	GM114100G0
RD62			1.62kΩ ±1% 1/4W	GM11416210
RD81		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
RD82		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
RD83		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD84		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD85		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD86		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD87		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
RD88		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD89		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD90			10.0Ω ±1% 1/4W	GM114100G0
RD91			10.0Ω ±1% 1/4W	GM114100G0
RD92			1.62kΩ ±1% 1/2W	GM11416210
R401			1.47kΩ ±1% 1/4W	GM11414710
R402			3.01kΩ ±1% 1/4W	GM11430110
R404		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R405		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R406		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R407		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R408		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R409		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R410		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R411		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R412		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R413			10.0Ω ±1% 1/4W	GM114100G0
R414			10.0Ω ±1% 1/4W	GM114100G0
R421			1.47kΩ ±1% 1/4W	GM11414710
R422			3.01kΩ ±1% 1/4W	GM11430110
R424		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R425		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R426		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R427		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R428		4822 111 90893	100Ω +-5% 1/10W CHIP	NI05101110
R429		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R430		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R431		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R432		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R433			10.0Ω ±1% 1/4W	GM114100G0
R434			10.0Ω ±1% 1/4W	GM114100G0
R451			1.47kΩ ±1% 1/4W	GM11414710
R452			3.01kΩ ±1% 1/4W	GM11430110
R454		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R455		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R456		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R457		4822 116 83352	560 Ω ±5% 1/10W CHIP	NI05561110
R458		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R459		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R460		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R461		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R462		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R463			10.0Ω ±1% 1/4W	GM114100G0
R464			10.0Ω ±1% 1/4W	GM114100G0
R471			1.47kΩ ±1% 1/4W	GM11414710
R472			3.01kΩ ±1% 1/4W	GM11430110
R474		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R475		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R476		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R477		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R478		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R479		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R480		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R481		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R482		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R483			10.0Ω ±1% 1/4W	GM114100G0
R484			10.0Ω ±1% 1/4W	GM114100G0
R601		4822 111 90885	2.7kΩ ±1% 1/10W CHIP	NI01272110
R602		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R603		4822 111 90885	2.7kΩ ±1% 1/10W CHIP	NI01272110
R604		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R605		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R606		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R608		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R609		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R610		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R611		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R612		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R613		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R614			10.0Ω ±1% 1/4W	GM114100G0
R615			10.0Ω ±1% 1/4W	GM114100G0
R616		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R618		4822 111 20407	100.0Ω ±1% 1/4W	NR01101140
R619			10kΩ ±1% 1/4W	GM11410020
R620		4822 111 90896	100kΩ ±5% 1/10W CHIP	NI05104110
R631		4822 111 90885	2.7kΩ ±1% 1/10W CHIP	NI01272110
R632		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R633		4822 111 90885	2.7kΩ ±1% 1/10W CHIP	NI01272110
R634		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R635		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R636		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R638		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R639		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R640		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R641		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R642		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R643		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R644			10.0Ω ±1% 1/4W	GM114100G0
R645			10.0Ω ±1% 1/4W	GM114100G0
R646		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R648		4822 111 20407	100.0Ω ±1% 1/4W	NR01101140
R649			10kΩ ±1% 1/4W	GM11410020
R650		4822 111 90896	100kΩ ±5% 1/10W CHIP	NI05104110
R701		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R702		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R703		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R704		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R705		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R706		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R707		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R708		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R709		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R710		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R711		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R712		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /**:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R713		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R714			10.0Ω ±1% 1/4W	GM114100G0
R715			10.0Ω ±1% 1/4W	GM114100G0
R716		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R717		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R718		4822 111 20407	100.0Ω ±1% 1/4W	NR01101140
R719			10kΩ ±1% 1/4W	GM11410020
R720		4822 111 90896	100kΩ ±5% 1/10W CHIP	NI05104110
R721		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R722		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R723		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R724		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R725		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R726		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R727		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R728		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R729		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R730		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R731		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R732		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R733		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R734			10.0Ω ±1% 1/4W	GM114100G0
R735			10.0Ω ±1% 1/4W	GM114100G0
R736		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R737		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R738		4822 111 20407	100.0Ω ±1% 1/4W	NR01101140
R739			10kΩ ±1% 1/4W	GM11410020
R740		4822 111 90896	100kΩ ±5% 1/10W CHIP	NI05104110
R751		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R752		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R753		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R754		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R755		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R756		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R757		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R758		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R759		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R760		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R761		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R762		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R763		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R764			10.0Ω ±1% 1/4W	GM114100G0
R765			10.0Ω ±1% 1/4W	GM114100G0
R766		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R767		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R768		4822 111 20407	100.0Ω ±1% 1/4W	NR01101140
R769			10kΩ ±1% 1/4W	GM11410020
R770		4822 111 90896	100kΩ ±5% 1/10W CHIP	NI05104110
R771		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R772		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R773		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R774		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R775		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R776		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R777		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R778		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R779		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R780		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R781		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R782		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R783		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R784			10.0Ω ±1% 1/4W	GM114100G0
R785			10.0Ω ±1% 1/4W	GM114100G0
R786		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R787		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R788		4822 111 20407	100.0Ω ±1% 1/4W	NR01101140
R789			10kΩ ±1% 1/4W	GM11410020
R790		4822 111 90896	100kΩ ±5% 1/10W CHIP	NI05104110
			PA16-SEMICONDUCTORS	
DD01		4822 130 80318	ZENER DIODE RD6.8JB2 MTZJ6.8C	HD30681000
DD02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DD03		4822 130 81148	CHIP DIODE IMN10	HZ20007210
DD04		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
DD13		4822 130 81148	CHIP DIODE IMN10	HZ20007210
DD14		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
DD53		4822 130 81148	CHIP DIODE IMN10	HZ20007210
DD54		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
DD73		4822 130 81148	CHIP DIODE IMN10	HZ20007210
DD74		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D403		4822 130 81148	CHIP DIODE IMN10	HZ20007210
D404		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D413		4822 130 81148	CHIP DIODE IMN10	HZ20007210
D414		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D453		4822 130 81148	CHIP DIODE IMN10	HZ20007210
D454		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D473		4822 130 81148	CHIP DIODE IMN10	HZ20007210
D474		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D601		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D602		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D603		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D605		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D631		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D632		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D633		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D703		4822 130 81148	CHIP DIODE IMN10	HZ20007210
D704		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D713		4822 130 81148	CHIP DIODE IMN10	HZ20007210
D714		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D753		4822 130 81148	CHIP DIODE IMN10	HZ20007210
D754		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D773		4822 130 81148	CHIP DIODE IMN10	HZ20007210
D774		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
⚠ QD01		4822 130 11604	TRS. 2SB1020A	HT21020100
QD03		4822 209 17426	IC TDA1541A/N2/S2 16BIT	HC10083490
QD04		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
QD05		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
QD06		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
QD07		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
QD08		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
QD09		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
QD10		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
QD14		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
QD15		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
QD16		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
QD17		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
QD18		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
QD19		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
QD20		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
QD21		4822 209 32984	IC TC7SHU04F	HC10427050
QD22		4822 209 61494	IC 74HC74 FLAT	HC707400Z0
QD51		4822 209 32984	IC TC7SHU04F	HC10427050
QD52		4822 209 61494	IC 74HC74 FLAT	HC707400Z0
QD53		4822 209 17426	IC TDA1541A/N2/S2 16BIT	HC10083490
QD54		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
QD55		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
QD56		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /**:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QD57		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
QD58		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
QD59		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
QD60		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
QD74		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
QD75		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
QD76		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
QD77		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
QD78		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
QD79		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
QD80		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
Q401		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
Q402		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
Q403		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q404		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q405		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
Q406		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
Q407		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
Q421		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
Q422		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
Q423		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q424		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q425		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
Q426		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
Q427		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
Q451		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
Q452		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
Q453		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q454		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q455		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
Q456		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
Q457		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
Q471		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
Q472		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
Q473		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q474		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q475		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
Q476		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
Q477		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
Q601		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
Q603		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
Q604		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q605		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q606		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
Q607		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
Q608		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
Q631		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
Q633		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
Q634		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q635		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q636		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
Q637		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
Q638		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
Q701		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
Q702		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
Q703		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q704		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q705		4822 130 63929	CHIP TR. 2SC3324 B	HX333241B0
Q706		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
Q707		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
Q721		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
Q722		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
Q723		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q724		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q725		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
Q726		5322 130 41844	F.E.T. 2SK170 V	HF201701H0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
Q727		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
Q751		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
Q752		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
Q753		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q754		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q755		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
Q756		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
Q757		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
Q771		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
Q772		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
Q773		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q774		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q775		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
Q776		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
Q777		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
			PA16-MISCELLANEOUS	
J608		4822 290 81602	TERMINAL RCA 1P GLD L	YT02010740
J609		4822 290 81602	TERMINAL RCA 1P GLD R	YT02010740
L601		4822 280 10353	RELAY DC9V NA-9-WK	LY20090090
L603		4822 158 60605	FERRITE CORE BEADS	FC90050060
L633		4822 158 60605	FERRITE CORE BEADS	FC90050060
L701		4822 280 10353	RELAY DC9V NA-9-WK	LY20090090
L702		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
L703		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
L731		4822 280 10353	RELAY DC9V NA-9-WK	LY20090090
L732		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
L733		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
			PH16-POWER SW CIRCUIT BOARD	
⚠ GH01		4822 121 43732	FILM CAP. 0.01µF ±20% 250V	DF77103500
⚠ SH01		4822 276 13364	PUSH SW. SDDLD1 TV-3	SP01011990
⚠ SH02	K	4822 277 21825	SLIDE SW. SDKGA4	SS02021510
			PP16-MAIN/HDAM/MUTE CIRCUIT BOARD	
			PP16-CAPACITORS	
CN02		4822 124 41543	ELECT 1µF 50V	OA10505020
CN03		4822 124 90357	ELECT 2.2µF 50V	OA22505020
CN06		4822 124 22277	ELECT 470µF 16V ±20%	OA47701620
CN13		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CN21		4822 126 11567	CER. 0.022µF ±10% CHIP	DK96223200
CN22		4822 124 22273	ELECT 0.47µF ±20% 50V	OA47405020
CN23		4822 124 22274	ELECT 4.7 µF ±20% 50V	OA47505020
CT01		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CT02		4822 126 11685	CER. 4700pF ±10% 50V CHIP	DK96472300
CT03		4822 126 12339	CER. 2200pF ±10% CHIP	DK96222300
CT04		4822 126 13837	CER. 0.1 µF ±10% 10V CHIP	DK96104200
CT05		4822 126 13837	CER. 0.1 µF ±10% 10V CHIP	DK96104200
CT06		4822 126 11685	CER. 4700pF ±10% 50V CHIP	DK96472300
CT07		4822 126 12339	CER. 2200pF ±10% CHIP	DK96222300
CT08		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CT09		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CT10		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CY60		4822 122 40588	CER. 0.022µF ±10% 50V	DA17223110
CY61		4822 122 40588	CER. 0.022µF ±10% 50V	DA17223110
CY62		4822 124 90355	ELECT 100 µF ±20% 50V	OA10705020
CY63		4822 124 41536	ELECT 100 µF ±20% 35V	OA10703520
C301		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C302		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C303		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C304		4822 124 90363	ELECT 220 µF ±20% 10V	OA22701020
C305		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /**:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C309		4822 124 41539	ELECT 47 µF ±20% 16V	OA47601620
C310		5322 126 11578	CER. 1000pF ±10% 50V CHIP	DK96102300
C311		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
C312		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C314		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C315		4822 126 13309	CER. 0.033µF ±10% CHIP	DK96333200
C316		4822 124 81238	TANTL. 0.33µF 35V CHIP	EY33403510
C317		4822 124 90357	ELECT 2.2 µF ±20% 50V	OA22505020
C318		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C319		4822 126 13837	CER. 0.1 µF ±10% 10V CHIP	DK96104200
C320		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C327		4822 124 90363	ELECT 220µF ±20% 10V	OA22701020
C328		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C329		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C330		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C331		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C332		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C333		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
C334		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C356		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C357		4822 126 11663	CER. 12pF ±5% 50V CHIP	DD95120300
C358		4822 126 11663	CER. 12pF ±5% 50V CHIP	DD95120300
C359		5322 126 11578	CER. 1000pF ±10% 50V CHIP	DK96102300
C360		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C361		4822 126 11663	CER. 12pF ±5% 50V CHIP	DD95120300
C362		4822 126 11663	CER. 12pF ±5% 50V CHIP	DD95120300
C363		5322 126 11578	CER. 1000pF ±10% 50V CHIP	DK96102300
C364				
∫		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C372				
C501				
∫		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C504				
C505		4822 124 90363	ELECT 220µF ±20% 10V	OA22701020
C506		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C507		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C509		5322 126 11578	CER. 1000pF ±10% 50V CHIP	DK96102300
C510		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C511		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C512		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C514		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C515		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C516		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C518		5322 126 11578	CER. 1000pF ±10% 50V CHIP	DK96102300
C519		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C520		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C521		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C528		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C529		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C801		4822 124 80582	ELECT 4700µF ±20%16V	OA47801620
C802		4822 124 22694	ELECT 1000µF 6.3V	OA10800620
C803		4822 124 90388	ELECT 3300µF ±20%16V	OA33801620
C804		4822 124 90367	ELECT 2200µF 25V	OA22802520
C812		4822 124 90367	ELECT 2200µF ±20%25V	OA22802520
C813	F	4822 124 22238	ELECT 100µF ±20% 25V	OA10702550
C813	K /02	4822 124 80119	ELECT 100µF ±20% 25V	OA10702540
C814	F	4822 124 22238	ELECT 100µF ±20% 25V	OA10702550
C814	K /02	4822 124 80119	ELECT 100µF ±20% 25V	OA10702540
C822		4822 124 90388	ELECT 3300µF ±20%16V	OA33801620
C823		4822 124 90364	ELECT 220µF ±20% 16V	OA22701620
C851		4822 124 12405	ELECT 4700µF ±20% 35V	OB47803520
C852		4822 124 12405	ELECT 4700µF ±20% 35V	OB47803520
C855	F	4822 124 22238	ELECT 100µF ±20% 25V	OA10702550
C855	K /02	4822 124 80119	ELECT 100µF ±20% 25V	OA10702540
C856	F	4822 124 22238	ELECT 100µF ±20% 25V	OA10702550
C856	K /02	4822 124 80119	ELECT 100µF ±20% 25V	OA10702540
C857		4822 124 22242	ELECT 470µF ±20% 25V	OA47702550
C858		4822 124 22242	ELECT 470µF ±20% 25V	OA47702550

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PP16-RESISTORS CHIP	
C321		4822 116 82487	0Ω ±5% 1/16W	NN05000610
C355		4822 116 82487	0Ω ±5% 1/16W	NN05000610
RN02		4822 117 11977	3.9MΩ ±5% 1/16W	NN05395610
RN03		4822 116 83208	18kΩ ±5% 1/16W	NN05123610
RN04		4822 051 30473	47kΩ ±5% 1/16W	NN05473610
RN05		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RN08		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RN10		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RN13		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
RN14		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RN15		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RN16		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RN21		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RN22		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
RN23		4822 051 30332	3.3kΩ ±5% 1/16W	NN05332610
RN24		4822 051 30473	47kΩ ±5% 1/16W	NN05473610
RN25		4822 051 30333	33kΩ ±5% 1/16W	NN05333610
RN26		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
RN27		4822 051 30332	3.3kΩ ±5% 1/16W	NN05332610
RT01		4822 051 30101	100Ω ±5% 1/16W	NN05101610
RT02		4822 051 30339	33Ω ±5% 1/16W	NN05330610
RT03		4822 051 30759	75Ω ±5% 1/16W	NN05750610
RT04		4822 051 30339	33Ω ±5% 1/16W	NN05330610
RT05		4822 051 30759	75Ω ±5% 1/16W	NN05750610
RY41		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RY42		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RY51		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
RY52		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RY53		4822 051 30473	47kΩ ±5% 1/16W	NN05473610
RY54		4822 051 30473	47kΩ ±5% 1/16W	NN05473610
RY55		4822 051 30473	47kΩ ±5% 1/16W	NN05473610
RY56		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RY61		4822 116 83255	3.3kΩ ±1% 1/10W	NI01332110
R301		4822 051 30759	75Ω ±5% 1/16W	NN05750610
R302		4822 051 30759	75Ω ±5% 1/16W	NN05750610
R303		4822 051 30102	1kΩ ±5% 1/16W	NN05102610
R305		4822 051 30473	47kΩ ±5% 1/16W	NN05473610
R307		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
R308		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R309		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R310		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R311		4822 051 30471	470Ω ±5% 1/16W	NN05471610
R314		4822 051 30101	100Ω ±5% 1/16W	NN05101610
R315		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
R316		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R317		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R318		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R319		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R320		4822 051 30479	47Ω ±5% 1/16W	NN05470610
R321		4822 051 30479	47Ω ±5% 1/16W	NN05470610
R322		4822 051 30479	47Ω ±5% 1/16W	NN05470610
R323		4822 051 30479	47Ω ±5% 1/16W	NN05470610
R324		4822 051 30101	100Ω ±5% 1/16W	NN05101610
R325		4822 051 30101	100Ω ±5% 1/16W	NN05101610
R326		4822 051 30101	100Ω ±5% 1/16W	NN05101610
R327		4822 051 30101	100Ω ±5% 1/16W	NN05101610
R330		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R331		4822 051 30334	330kΩ ±5% 1/16W	NN05334610
R332		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R333		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R334		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R335		4822 051 30471	470Ω ±5% 1/16W	NN05471610
R336		4822 051 30471	470Ω ±5% 1/16W	NN05471610
R338		4822 051 30223	22kΩ ±5% 1/16W	NN05223610

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /**:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R339		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R340		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R341		4822 051 30334	330kΩ ±5% 1/16W	NN05334610
R342		4822 117 12968	820Ω ±5% 1/16W	NN05821610
R343		4822 051 30101	100Ω ±5% 1/16W	NN05101610
R344		4822 051 30334	330kΩ ±5% 1/16W	NN05334610
R345		4822 117 12968	820Ω ±5% 1/16W	NN05821610
R346		4822 051 30101	100Ω ±5% 1/16W	NN05101610
R348		4822 051 30101	100Ω ±5% 1/16W	NN05101610
R349		4822 051 30101	100Ω ±5% 1/16W	NN05101610
R350		4822 051 30479	47Ω ±5% 1/16W	NN05470610
R351		4822 051 30479	47Ω ±5% 1/16W	NN05470610
R501		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R502		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R503		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R504		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R505		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R506		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R507		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R508		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R509		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R510		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R511		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R512		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R513		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R514		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R515		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R516		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R517		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R518		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R520		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R527		4822 116 82487	0Ω ±5% 1/16W	NN05000610
R529		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R530		4822 051 30471	470Ω ±5% 1/16W	NN05471610
R531		4822 051 30471	470Ω ±5% 1/16W	NN05471610
R532		4822 051 30471	470Ω ±5% 1/16W	NN05471610
R861	/02		390Ω ±5% 2W NON CHIP	GA05391020
R862	/02		390Ω ±5% 2W NON CHIP	GA05391020
			PP16-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RD01 RN01 RN06 RY57 RY58 R813-R816 R851-R858	
			PP16-SEMICONDUCTORS	
⚠ DN01				
∫		4822 130 80839	DIODE S5688G 1A VRM=400V	HD20029050
⚠ DN05				
DN09		4822 130 33948	ZENER DIODE RD5.6JB2 MTZJ5.6B	HD30561000
DN10		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DN11		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DN15		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DY11		4822 130 10667	ZENER DIODE RD4.7JB2 MTZJ4.7B	HD30471000
DY51		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
⚠ DY61				
∫		4822 130 80839	DIODE S5688G 1A VRM=400V	HD20029050
⚠ DY64				
DY65		4822 130 80116	ZENER DIODE RD24JB2 MTZJ24D	HD32401000
DY66		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000

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D301		4822 130 83715	CHIP DIODE DAN202U	HZ21005000
⚠ D801				
∫		4822 130 80839	DIODE S5688G 1A VRM=400V	HD20029050
⚠ D808				
⚠ D811				
∫		4822 130 80839	DIODE S5688G 1A VRM=400V	HD20029050
⚠ D814				
D815		4822 130 80318	ZENER DIODE RD6.8JB2 MTZJ6.8C	HD30681000
⚠ D821				
∫		4822 130 80839	DIODE S5688G 1A VRM=400V	HD20029050
⚠ D824				
⚠ D851				
∫		4822 130 82422	DIODE EK16LF VRM60V	HD20041080
⚠ D854				
D856		4822 130 33948	ZENER DIODE RD5.6JB2 MTZJ5.6B	HD30561000
D857		4822 130 33948	ZENER DIODE RD5.6JB2 MTZJ5.6B	HD30561000
QN01		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
QN02		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
QN03		4822 130 11507	DIG.TRS. UMH4N	BA20070210
QN04		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
QN05		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
QN13		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
QN21		4822 209 83312	IC TA7317P	HC10042050
QT01		4822 209 31423	IC TC7W04F	HC700405W0
QY11		4822 111 92195	DIG.TRS. HN1A01F Y GR	BA10011050
QY12		4822 130 60839	TRS. 2SC2458 Y GR	HT324582B0
QY41		4822 130 63844	DIG.TRS. HN1C03FPNx2	BA20016050
QY51		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
⚠ QY61		4822 130 42734	CHIP TRS. 2SB798 DL DK	HX207982A0
Q301		4822 209 32984	IC TC7SHU04F	HC10427050
Q302		4822 209 90597	IC TCW125FU	HC10409050
Q303		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
Q304		4822 209 33578	IC TDA1315	HC10117490
Q305		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
Q306		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
Q308		4822 130 61311	CHIP TRS. 2SA1162 0 Y	HX111622A0
Q309		4822 209 17427	IC SM5844AF	HC10013350
Q311		4822 209 61494	IC 74HC74 FLAT	HC707400Z0
Q312		4822 209 31423	IC TC7W04F	HC700405W0
Q313		4822 209 33581	IC TC7W08F	HC10392050
Q314		4822 209 90597	IC TCW125FU	HC10409050
Q315		4822 209 17428	IC 74HC165 FLAT	HC716500R0
Q316		4822 209 30426	IC 74HC00 FLAT	HC700000Z0
Q317		4822 209 15997	IC TC74HC393AF	HC739305R0
Q318		4822 209 17429	IC 74HC107 FLAT	HC710700R0
Q319		4822 209 61494	IC 74HC74 FLAT	HC707400Z0
Q320		4822 209 62764	IC 74HC164 FLAT	HC716400Z0
Q321		4822 209 15997	IC TC74HC393AF COUNTER	HC739305R0
Q322		4822 209 32984	IC TC7SHU04F	HC10427050
Q323		4822 209 32984	IC TC7SHU04F	HC10427050
Q324		4822 209 90597	IC TCW125FU	HC10409050
Q325		4822 209 32984	IC TC7SHU04F	HC10427050
Q326		4822 209 91176	IC 74HC257AF	HC725705R0
Q327		4822 209 90597	IC TCW125FU	HC10409050
Q328		4822 209 17431	IC 74HC393 FLAT	HC739300R0
Q329		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
Q330		4822 209 61494	IC 74HC74 FLAT	HC707400Z0
Q331		4822 209 32984	IC TC7SHU04F	HC10427050
Q332		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
Q333		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
Q501		4822 209 17432	IC 74HC595	HC759500R0
Q502		4822 209 17432	IC 74HC595	HC759500R0

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
Q503		4822 209 17432	IC 74HC595	HC759500R0
Q504		4822 209 30426	IC CMOS 74HC00	HC700000Z0
Q505		4822 130 11507	DIG.TRS. UMH4N	BA20070210
Q506	F	4822 209 17433	EPROM/EEPROM 256K BYT PKG.355K506N1	HJ355KZ200
Q507		4822 209 17434	IC DSP56004	HC10103170
Q508	F		EPROM/EEPROM 512 BYT PRG.355K508-1	HJ355KZ100
Q508	K /02	4822 209 17435	EPROM/EEPROM 512K BYT PRG.355K508N1	HJ355KZ300
Q509		4822 209 17434	IC DSP56004	HC10103170
Q510		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
Q512		4822 209 31423	IC TC7W04F	HC700405W0
Q513		4822 209 33581	IC TC7W08F	HC10392050
Q520		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
⚠ Q801		4822 209 17436	IC BA05T 5V/1A TO220	HC36905210
⚠ Q802		4822 209 17436	IC BA05T 5V/1A TO220	HC36905210
Q811		4822 130 42836	F.E.T. 2SK246 GR	HF202461C0
Q812		4822 130 42949	TRS. 2SA970 GR BL	HT109702A0
⚠ Q813		4822 130 10176	F.E.T. 2SJ313 O Y	HF10313100
⚠ Q821		4822 209 17437	IC PQ09RF1	HC31909320
Q851		4822 130 42836	F.E.T. 2SK246 GR	HF202461C0
⚠ Q852		4822 130 11605	TRS. 2SD1415A	HT41415100
Q853		4822 130 43233	TRS. 2SC2240 GR BL	HT322402A0
Q855		4822 130 42836	F.E.T. 2SK246 GR	HF202461C0
⚠ Q856		4822 130 11604	TRS. 2SB1020A	HT21020100
Q857		4822 130 42949	TRS. 2SA970 GR BL	HT109702A0
			PP16-MISCELLANEOUS	
⚠ F801	F		FUSE 1.6A 250V UL	FS10160350
⚠ F801	K /02	4822 070 31002	FUSE 1A 250V BS LISTED	FS10100850
⚠ F811	F		FUSE 1A 250V UL	FS10100350
⚠ F811	K /02	4822 070 38001	FUSE 800MA 250V BS LISTED	FS10080850
⚠ F821	F		FUSE 1A 250V UL	FS10100350
⚠ F821	K /02	4822 070 38001	FUSE 800MA 250V BS LISTED	FS10080850
⚠ F851	F		FUSE 1A 250V UL	FS10100350
⚠ F851	K /02	4822 070 38001	FUSE 800MA 250V BS LISTED	FS10080850
⚠ F852	F		FUSE 1A 250V UL	FS10100350
⚠ F852	K /02	4822 070 38001	FUSE 800MA 250V BS LISTED	FS10080850
⚠ G801		4822 121 20263	NOISE KILLER 0.47µF+6.8Ω	BF47400010
G810	F	4822 121 20263	NOISE KILLER 0.47µF+6.8Ω	BF47400010
⚠ G850		4822 121 20263	NOISE KILLER 0.47µF+6.8Ω	BF47400010
JT01		4822 265 11582	TERMINAL 1P RCA PIN JACK	YT02011000
JT02		4822 265 11582	TERMINAL 1P RCA PIN JACK	YT02011000
JT03		4822 267 31369	OPT. CONNECTOR GP1F32T OPTICAL OUT	YJ15000090
J301		4822 265 11582	TERMINAL 1P RCA PIN JACK	YT02011000
J302		4822 265 11582	TERMINAL 1P RCA PIN JACK	YT02011000
J303		4822 218 11487	OPT. CONNECTOR GP1F32R OPTICAL RECEIVER	YJ15000150
LT01		4822 142 60422	PULSE TRANSF. TPS247MN-0386AN	TP41042030
LT02		4822 142 60422	PULSE TRANSF. TPS247MN-0386AN	TP41042030
LT04		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
LY51		4822 280 10353	RELAY DC9V NA-9-WK	LY20090090
L301		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
L302		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
L304		4822 157 11192	CHIP INDUCTANCE 3.3 UH NL322522	LU12332010
L305		4822 157 11192	CHIP INDUCTANCE 3.3 UH NL322522	LU12332010
L306		4822 158 60654	FERRITE CORE BLM31A02 CHIP INDUCTOR	FC90030070

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S301		4822 277 21559	SLIDE SW. COAX OPT SEL	SS02021150
S302		4822 277 21559	SLIDE SW. INPUT FORMAT	SS02021150
X301		4822 242 10818	CRYSTAL 33.8688MHz	JX33001380
X302		4822 242 11032	CRYSTAL 36.864MHz	JX36001380
			PV16-SERVO/DEC/MOTOR CIRCUIT BOARD	
			PV16-CAPACITORS	
CF02		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CF05		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CF06		4822 124 41539	ELECT 47µF ±20% 16V	OA47601620
CF07		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CF11		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CF12		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CF13		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CF15		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CF16		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CM01				
⟆		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CM04				
C100				
⟆		4822 126 11682	CER. 220pF ±10% CHIP	DK96221300
C105				
C106		4822 126 13837	CER. 0.1 µF ±10% 10V CHIP	DK96104200
C108		4822 122 33777	CER. 47pF ±5% 50V CHIP	DD95470300
C109		4822 126 11567	CER. 0.022µF ±10% 16V CHIP	DK96223200
C110		4822 126 12495	CER. 1500pF ±10% CHIP	DK96152300
C111		4822 126 14249	CER. 560pF ±10% CHIP	DK96561300
C112		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C113		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
C119		4822 126 11567	CER. 0.022µF ±10% 16V CHIP	DK96223200
C132		4822 126 14581	CER. 0.015µF ±10% 16V CHIP	DK96153200
C133		4822 126 11695	CER. 330pF ±5% 50V CHIP	DD95331300
C134		4822 126 11563	CER. 180pF ±5% CHIP	DD95181300
C135		4822 126 11567	CER. 0.022µF ±10% 16V CHIP	DK96223200
C136		4822 124 41539	ELECT 47µF ±20% 16V	OA47601620
C139		4822 124 11131	ELECT 47µF 6.3V CHIP	EY47600620
C140				
⟆		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C145				
C146		4822 124 11131	ELECT 47µF 6.3V CHIP	EY47600620
C147		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C148		4822 124 22694	ELECT 1000µF ±20% 6.3V	OA10800620
C149		4822 124 41539	ELECT 47 µF ±20% 16V	OA47601620
C151		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C152		4822 124 41539	ELECT 47 µF ±20% 16V	OA47601620
C153		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C154		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C155		4822 124 22277	ELECT 470µF ±20% 16V	OA47701620
C156		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
C165		4822 122 33788	CER. 82pF±5% CHIP	DD95820300
C166		4822 126 12495	CER. 1500pF ±10% CHIP	DK96152300
C221		4822 126 13267	CER. 330pF ±10% CHIP	DK96331300
C222		4822 126 12846	CER. 0.012µF ±10% CHIP	DK96123200
C223		4822 126 11568	CER. 470pF ±10% CHIP	DK96471300
C224		4822 126 11685	CER. 4700pF ±10% 50V CHIP	DK96472300
C225		4822 126 13837	CER. 0.1µF ±10% 10V CHIP	DK96104200
C226		5322 126 11578	CER. 1000pF ±10% 50V CHIP	DK96102300
C227		4822 126 13837	CER. 0.1 µF ±10% 10V CHIP	DK96104200
C228		4822 126 13837	CER. 0.1 µF ±10% 10V CHIP	DK96104200
C229		5322 126 11578	CER. 1000pF ±10% 50V CHIP	DK96102300
			PV16-RESISTORS CHIP	
RF09		4822 051 30105	1MΩ ±5% 1/16W	NN05105610
RF10		4822 051 30474	470kΩ ±5% 1/16W	NN05474610
RF11		4822 051 30223	22kΩ ±5% 1/16W	NN05223610

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RF14				
∫		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
RF17				
RF18				
∫		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RF21				
RF22		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
RF23		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
RF25				
∫		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
RF35				
RM01		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RM02		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RM03		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
RM04		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
RM05		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RM06		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RM07		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
RM08		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
R100		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R101		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R102		4822 051 30274	270kΩ ±5% 1/16W	NN05274610
R103		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R104		4822 116 82487	0Ω ±5% 1/16W	NN05000610
R105		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R106		4822 116 83208	12kΩ ±5% 1/16W	NN05123610
R107		4822 116 83208	12kΩ ±5% 1/16W	NN05123610
R109		4822 051 30681	680Ω ±5% 1/16W	NN05681610
R110		4822 116 83208	12kΩ ±5% 1/16W	NN05123610
R111		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R113		4822 116 83207	1.2kΩ ±5% 1/16W	NN05122610
R116		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R117		4822 117 12968	820Ω ±5% 1/16W	NN05821610
R119		4822 051 30333	33kΩ ±5% 1/16W	NN05333610
R120		4822 051 30333	33kΩ ±5% 1/16W	NN05333610
R121		4822 116 83211	1.8kΩ ±5% 1/16W	NN05182610
R123		4822 116 83213	270Ω ±5% 1/16W	NN05271610
R124		4822 116 83213	270Ω ±5% 1/16W	NN05271610
R125				
∫		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R128				
R129		4822 051 30101	100Ω ±5% 1/16W	NN05101610
R133		4822 051 30392	3.9kΩ ±5% 1/16W	NN05392610
R134		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
R135		4822 051 30471	470Ω ±5% 1/16W	NN05471610
R136		4822 051 30471	470Ω ±5% 1/16W	NN05471610
R137		4822 051 30272	2.7kΩ ±5% 1/16W	NN05272610
R138		4822 051 30272	2.7kΩ ±5% 1/16W	NN05272610
R139		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R140		4822 116 83339	56Ω ±5% 1/16W	NN05560610
R141		4822 051 30479	47Ω ±5% 1/16W	NN05470610
R142		4822 051 30391	390Ω ±5% 1/16W	NN05391610
⚠ R143		4822 116 60309	2.2Ω ±5% 1/4W FUSIBLE	NH05022140
R144		4822 051 30102	1kΩ ±5% 1/16W	NN05102610
R145		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
R146		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
R147		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
⚠ R148		4822 116 60309	2.2Ω ±5% 1/4W FUSIBLE	NH05022140
R151				
∫		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R157				
R158		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R160		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
R161				
∫		4822 051 30101	100Ω ±5% 1/16W	NN05101610
R164				
R165		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
R166		4822 051 30332	3.3kΩ ±5% 1/16W	NN05332610
			PV16-SEMICONDUCTORS	
QF01		4822 209 17438	ONE TIME PROM	HS355KN000
			μPD78P078 1-TIME μ-COM	
QF02		4822 209 15921	IC ET S-806D-Z	HC10077530
QF03		4822 209 17428	IC 74HC165 FLAT	HC716500R0
QF04		4822 209 17428	IC 74HC165 FLAT	HC716500R0
QF05		4822 209 17428	IC 74HC165 FLAT	HC716500R0
QF06		4822 209 17432	IC 74HC595	HC759500R0
QF07		4822 209 62764	IC 74HC164F	HC716400Z0
QF08		4822 209 32984	IC TC7SHU04F	HC10427050
QF09		4822 209 90597	IC TCW125FU	HC10409050
QM01		4822 130 43954	CHIP TRS. 2SD999 DL DK	HX409992A0
QM02		4822 130 43954	CHIP TRS. 2SD999 DL DK	HX409992A0
QM03		4822 130 42734	CHIP TRS. 2SB798 DL DK	HX207982A0
QM04		4822 130 42734	CHIP TRS. 2SB798 DL DK	HX207982A0
QM05		4822 130 43954	CHIP TRS. 2SD999 DL DK	HX409992A0
QM06		4822 130 43954	CHIP TRS. 2SD999 DL DK	HX409992A0
QM07		4822 130 42734	CHIP TRS. 2SB798 DL DK	HX207982A0
QM08		4822 130 42734	CHIP TRS. 2SB798 DL DK	HX207982A0
QM09				
∫		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
QM12				
Q102		4822 209 91174	IC SAA7372GP	HC10132490
Q103		4822 209 16372	IC TDA7073AT	HC10165490
Q104		4822 209 16372	IC TDA7073AT	HC10165490
Q107		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
Q108		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
Q109		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
Q110		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
Q111		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
Q112		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
			PV16-MISCELLANEOUS	
L103				
∫		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
L106				
XF01		4822 242 10992	CERAMIC RESONATOR	FQ05004040
			CSTCC5.00MG-TC 5MHz	
			PY16-FRONT FL/IR/KEY CIRCUIT BOARD	
			PY16-CAPACITORS	
CY16		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CY17		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CY20		4822 124 21901	ELECT 47μF 6.3V	EJ47600610
CY51		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
			PY16-RESISTORS CHIP	
RY01		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RY03		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
RY04		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
RY05		4822 051 30682	6.8kΩ ±5% 1/16W	NN05682610
RY06		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RY07		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
RY08		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
RY09		4822 051 30682	6.8kΩ ±5% 1/16W	NN05682610
RY10		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
			PY16-MISCELLANEOUS	
SY01				
∫		4822 276 13537	PUSH SW. SKHVBF 260GF	SP01012030
SY06				

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /**:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PY26-FRONT TACT SW CIRCUIT BOARD	
			PY26-CAPACITORS	
CY12		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CY13		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CY14		4822 126 12061	CER. 0.1µF±10% 25V CHIP	DK56104200
CY15		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CY21		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CY22		4822 126 10935	ELECT 100µF 6.3V	EJ10700610
			RESISTORS CHIP	
RY11		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
RY12		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
RY13		4822 051 30682	6.8kΩ ±5% 1/16W	NN05682610
RY14				
∫		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RY17				
RY18		4822 051 30563	56kΩ ±5% 1/16W	NN05563610
RY19		4822 051 30473	47kΩ ±5% 1/16W	NN05473610
RY20		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
RY21		4822 051 30101	100Ω ±5% 1/16W	NN05101610
RY22		4822 051 30101	100Ω ±5% 1/16W	NN05101610
RY23		4822 051 30101	100Ω ±5% 1/16W	NN05101610
RY24		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
RY25		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RY26		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RY27		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RY29		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RY31				
∫		4822 051 30221	220Ω ±5% 1/16W	NN05221610
RY34				
RY35				
∫		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RY38				
			PY26-SEMICONDUCTORS	
DY21				
∫		4822 130 80326	L.E.D LT3D8B RED	HI10062320
DY24				
QY01		4822 209 90244	IC µPD16311GC-AB6	HC10283060
QY02		4822 130 61311	CHIP TRS. 2SA1162 0 Y	HX111622A0
QY03		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
QY04		4822 130 61355	CHIP TRS. 2SC2712 0 Y	HX327122A0
QY07				
∫		4822 130 61311	CHIP TRS. 2SA1162 0 Y	HX111622A0
QY10				
			PY26-MISCELLANEOUS	
LY01		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
LY02		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
LY03		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
SY07				
∫		4822 276 13537	PUSH SW. SKHVBF 260GF	SP01012030
SY09			RED NSSH	
VY01		4822 130 90441	DISPLAY UNIT FLT FUTABA 6-BT-97ZK	HQ30801410
ZY01		4822 209 16735	PHOTO UNIT PNA4655M00HB IR SENSOR	HW10006020