

Service Manual

74 CD7 /02G

CD-7 F_N K_{GL}

Compact disc player



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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

MARANTZ DESIGN AND SERVICE

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Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

| | | |
|--|--|--|
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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/75 |
| 光出力(角型光コネクタ) | -19dBm |

デジタル入力

| | |
|--------------|------------|
| ピンジャック | 0.5Vp-p/75 |
| 光出力(角型光コネクタ) | -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 |

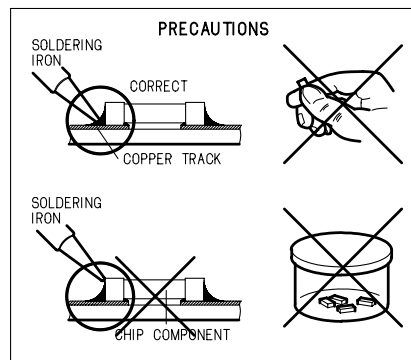
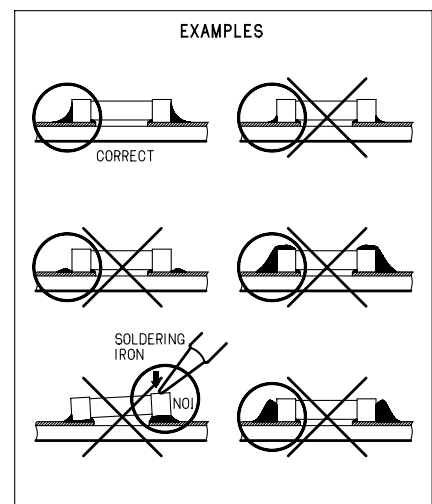
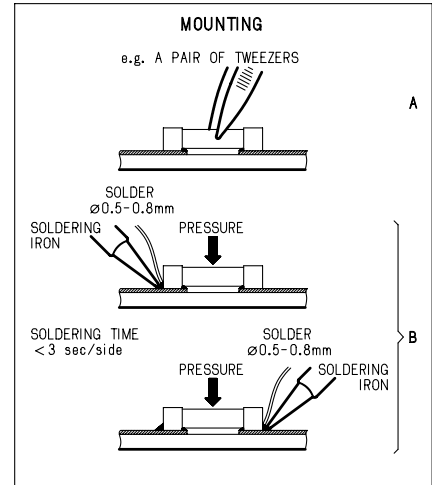
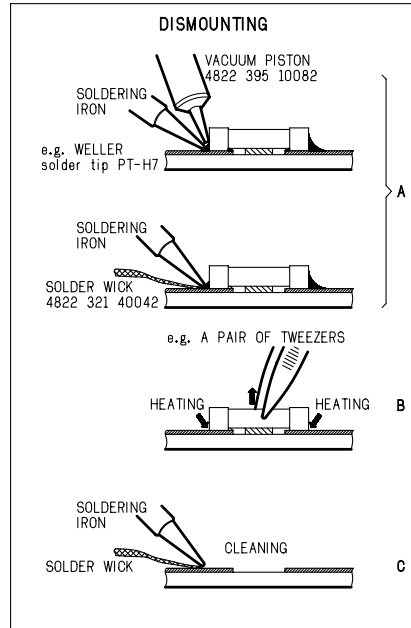
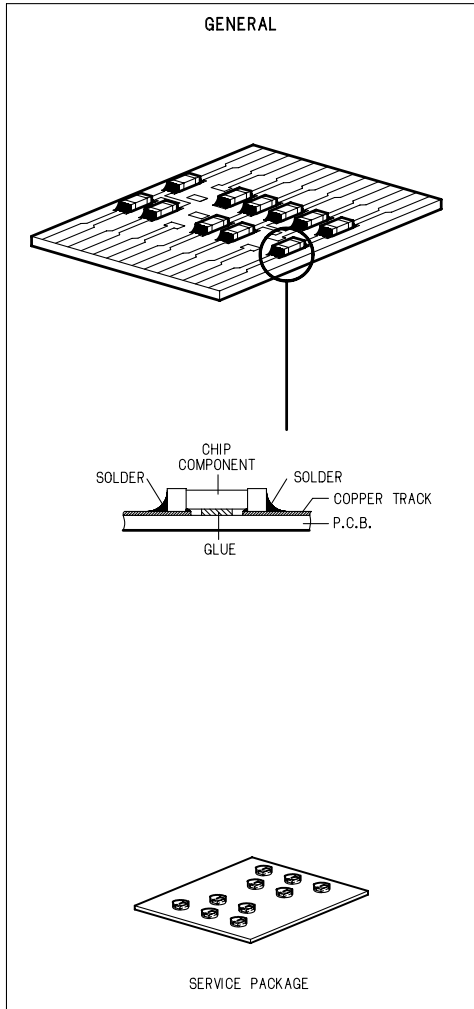
キャビネット・その他

| | |
|------------------|------------------|
| 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 ▶▶] 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 ▶▶] button, the function will change to "Mode 2".

- Press [PREV ◀◀] 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 ▶▶] button, the function will change to "Mode 3".

- Press [PREV ◀◀] 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 ◀◀] 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 0 0)

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 ▶▶] 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 0 1)

状態: [FOCUS ON] [SPINDLE OFF] [RADIAL OFF] [MUTE ON]

- [NEXT ▶▶] ボタンを押すとモード2へ移行します。

- [PREV ◀◀] 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 0 2)

状態: [FOCUS ON] [SPINDLE ON] [RADIAL OFF] [MUTE ON]

- [NEXT ▶▶] ボタンを押すとモード3へ移行します。

- [PREV ◀◀] 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 0 3)

状態: [FOCUS ON] [SPINDLE ON] [RADIAL ON] [MUTE OFF]

- [PREV ◀◀] 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) |

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 |

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

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 | OPF03 | 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 |
| FS32 | 13 | OPP41A | indicates sample frequency = 32 kHz (active LOW); this output can drive an LED |
| FS44 | 14 | OPP41A | indicates sample frequency = 44.1 kHz (active LOW); this output can drive an LED |
| 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 _{DD2} | 17 | E008 | digital supply voltage 2 |
| V _{SS2} | 18 | E009 | digital ground 2 |
| RESET | 19 | IDP09 | initialization after power-on, requires only an external capacitor connected to V _{DD2} ; 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 ² SSEL | 33 | IUP04 | select auxiliary input or normal input in transmit mode |
| SDAUX | 34 | IPP04 | auxiliary serial data input; I ² S-bus |
| SD | 35 | IOF24 | serial audio data input/output; I ² S-bus |
| WS | 36 | IOF24 | word select input/output; I ² S-bus |
| SCK | 37 | IOF29 | serial audio clock input/output; I ² S-bus |
| I ² SOEN | 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 _{SS1} | 41 | E009 | digital ground 1 |
| V _{DD1} | 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

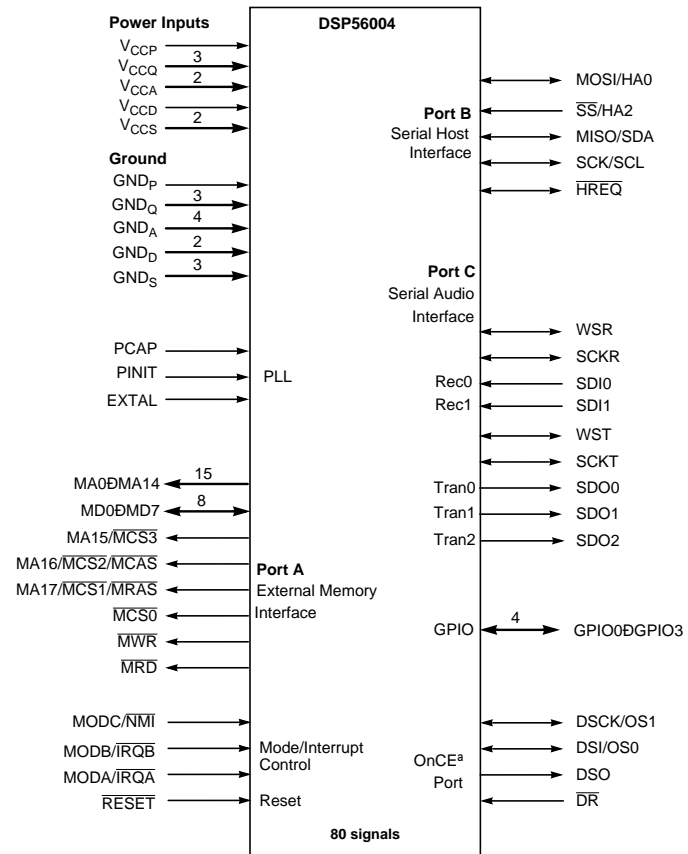
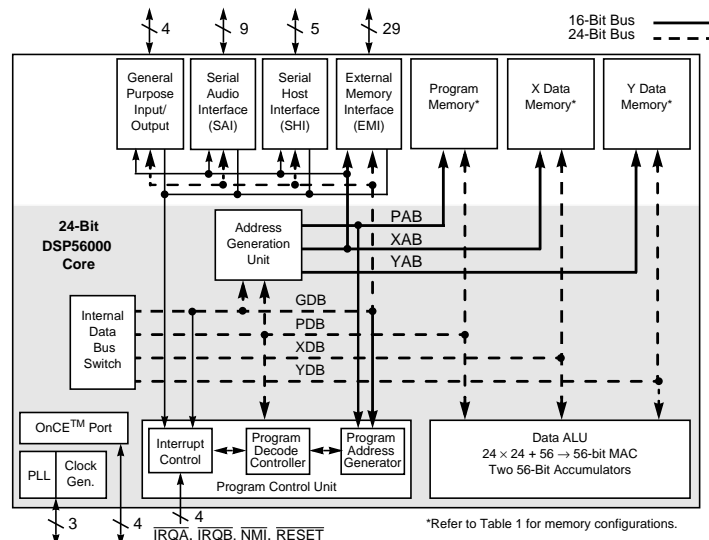
PINNING

| 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 |
| OB/TWC ⁽¹⁾ | 27 | mode select input |
| V _{DD} | 28 | +5 V supply voltage |

Note

1. See Table 1 data selection input.

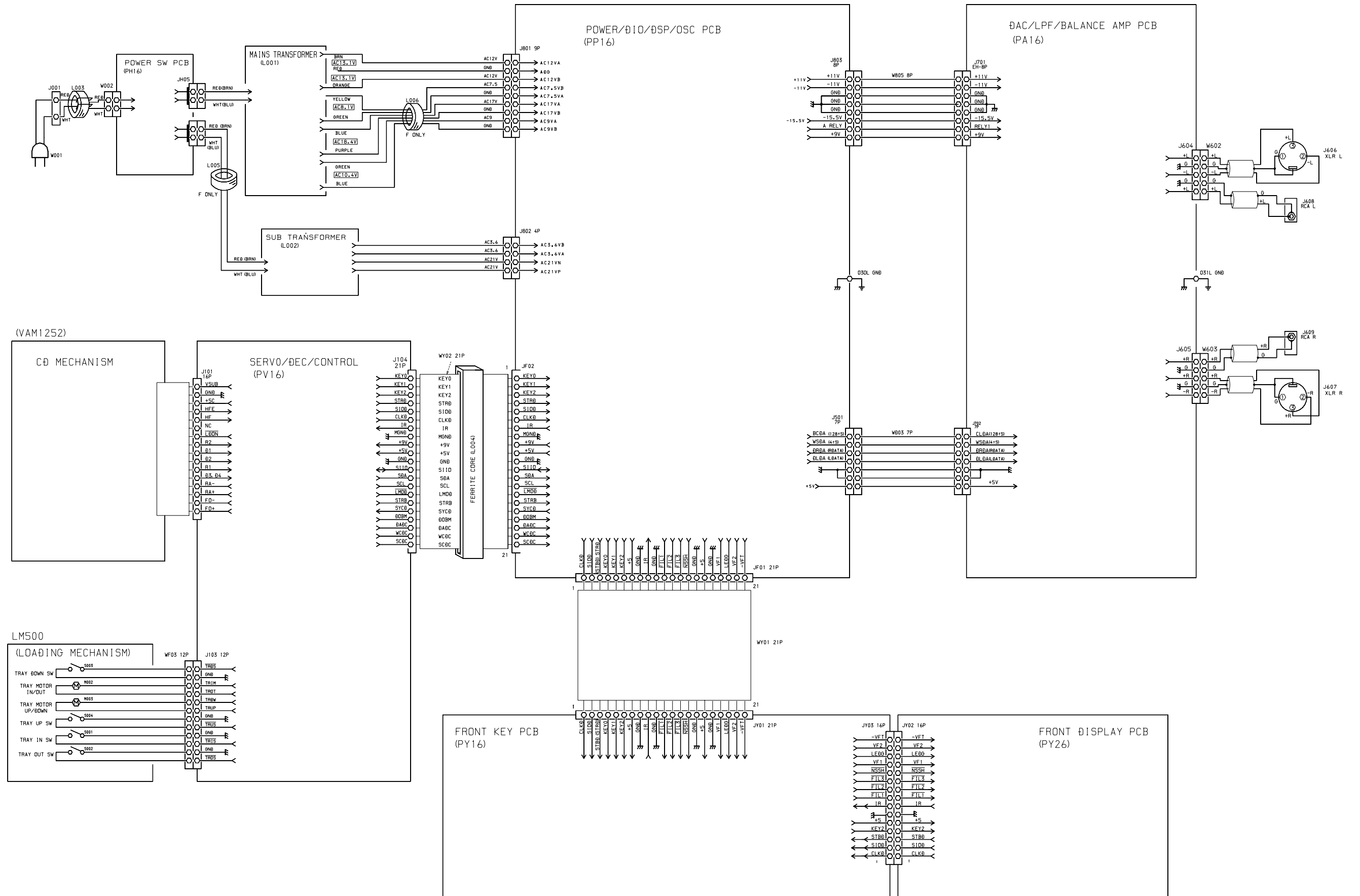
Q507/Q509 : DSP56004



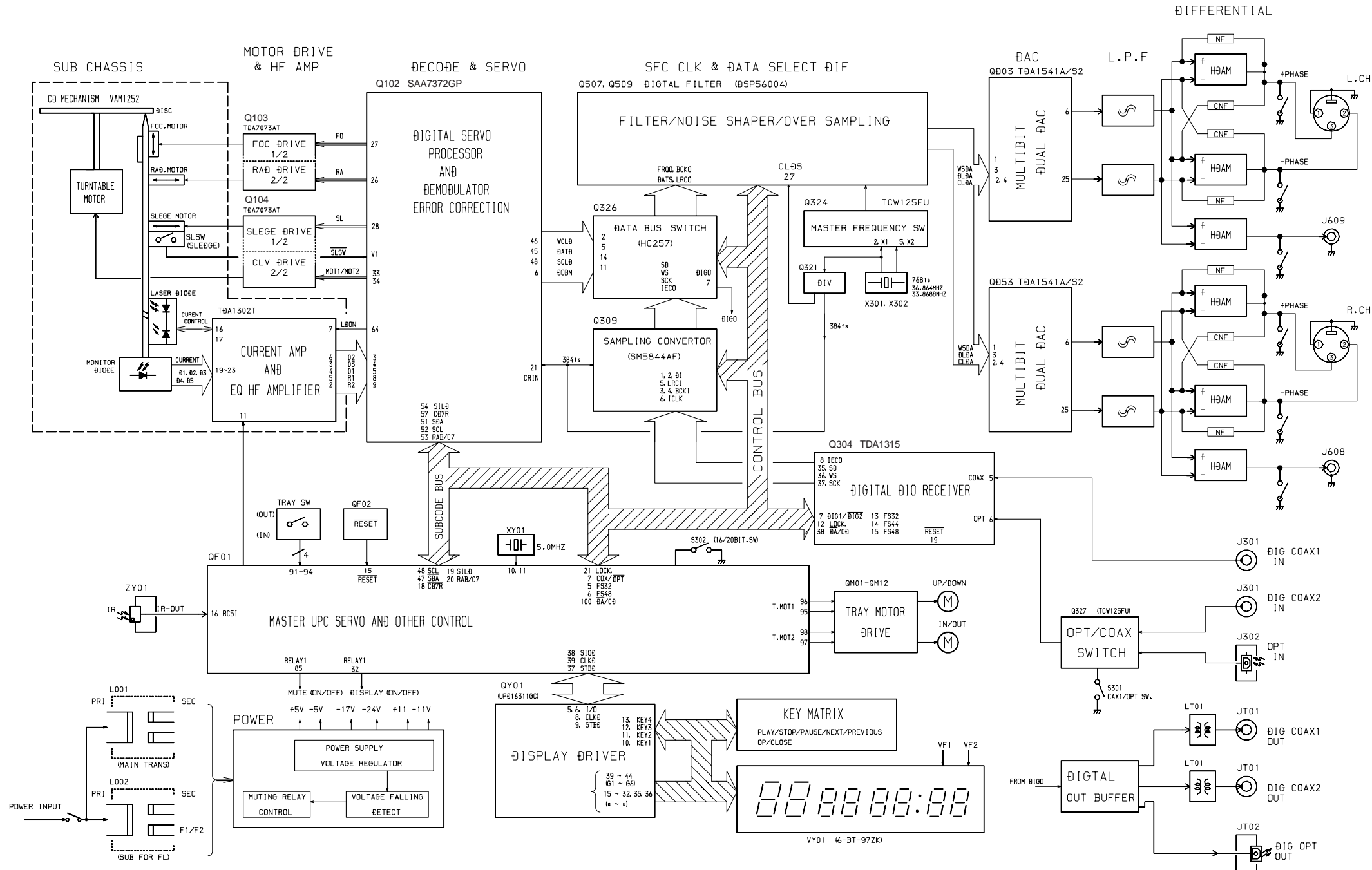
QF01 : μPD78076 MAIN

| Pin No. | Port Name | Function | In/Out | Active | To/From | Description |
|---------|-----------|----------|--------|--------|-------------|---|
| 1 | STRB | P120 | Out | High | Q304 | Strobe signal for control register 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 = Coaxial) |
| 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 | P05 | 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 | Avref1 | 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 | TRDM | 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



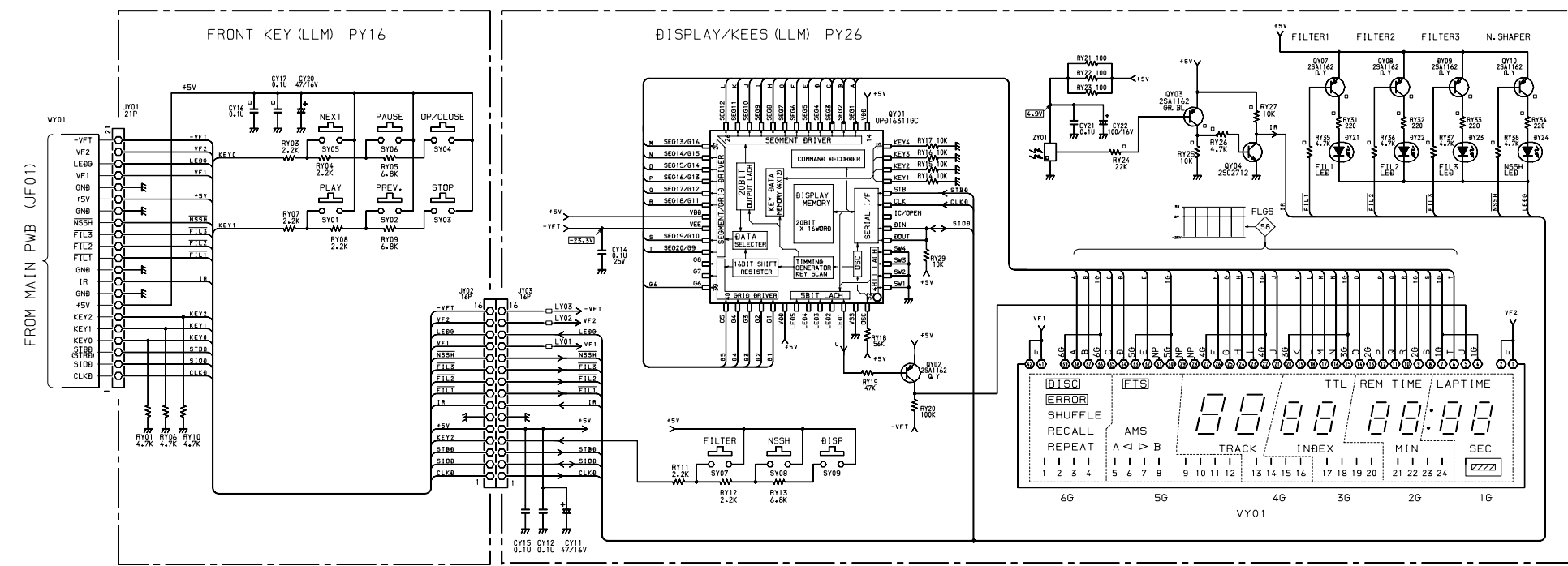
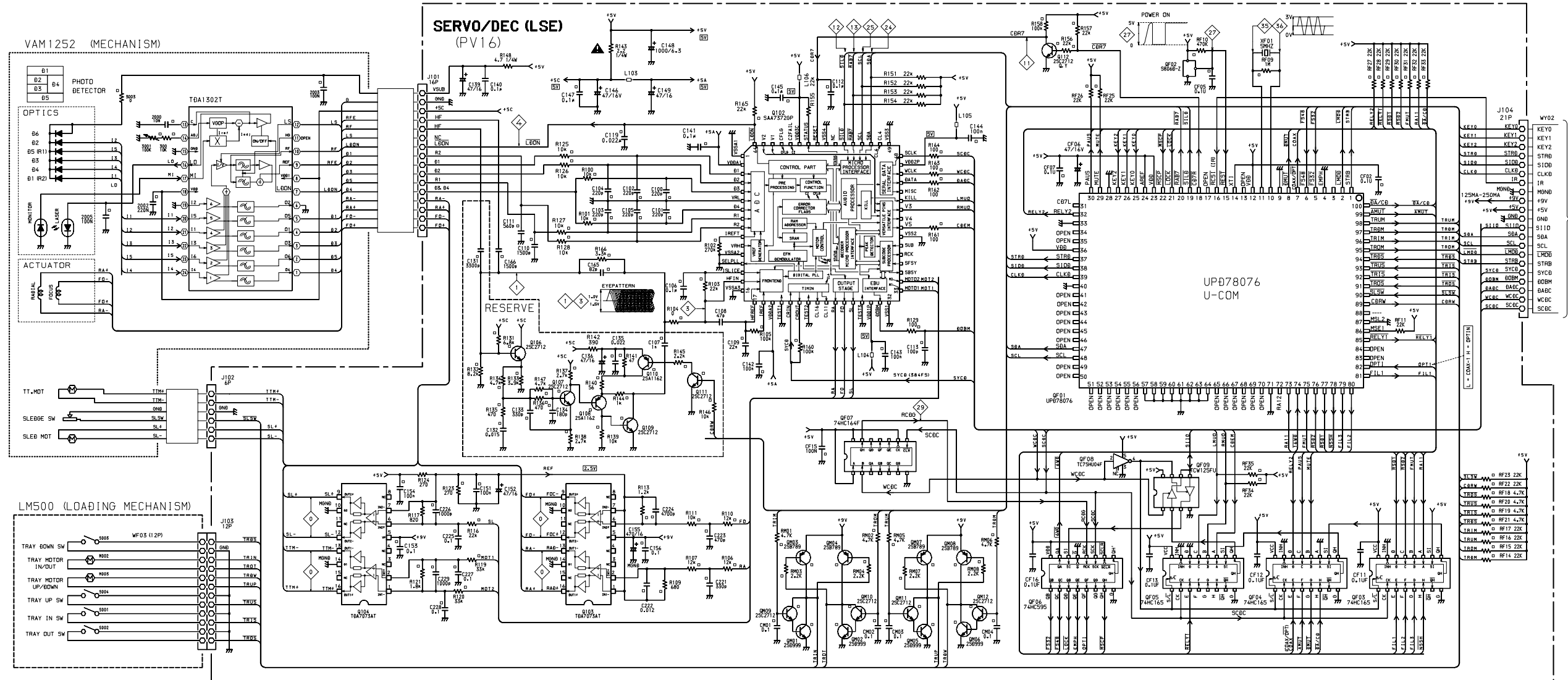
7. BLOCK DIAGRAM



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 | Sledge 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) Decode 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 communicating 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 | DADC | 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 | FRQ2 | CD7(SAA7372) Operating clock out signal |
| 57 | UNLOCK | TDA1315H(Q304) unlock output signal |
| 58 | | |
| 59 | COAX2 | Digital I/O input COAX2 signal |
| 60 | OPT0 | Digital 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

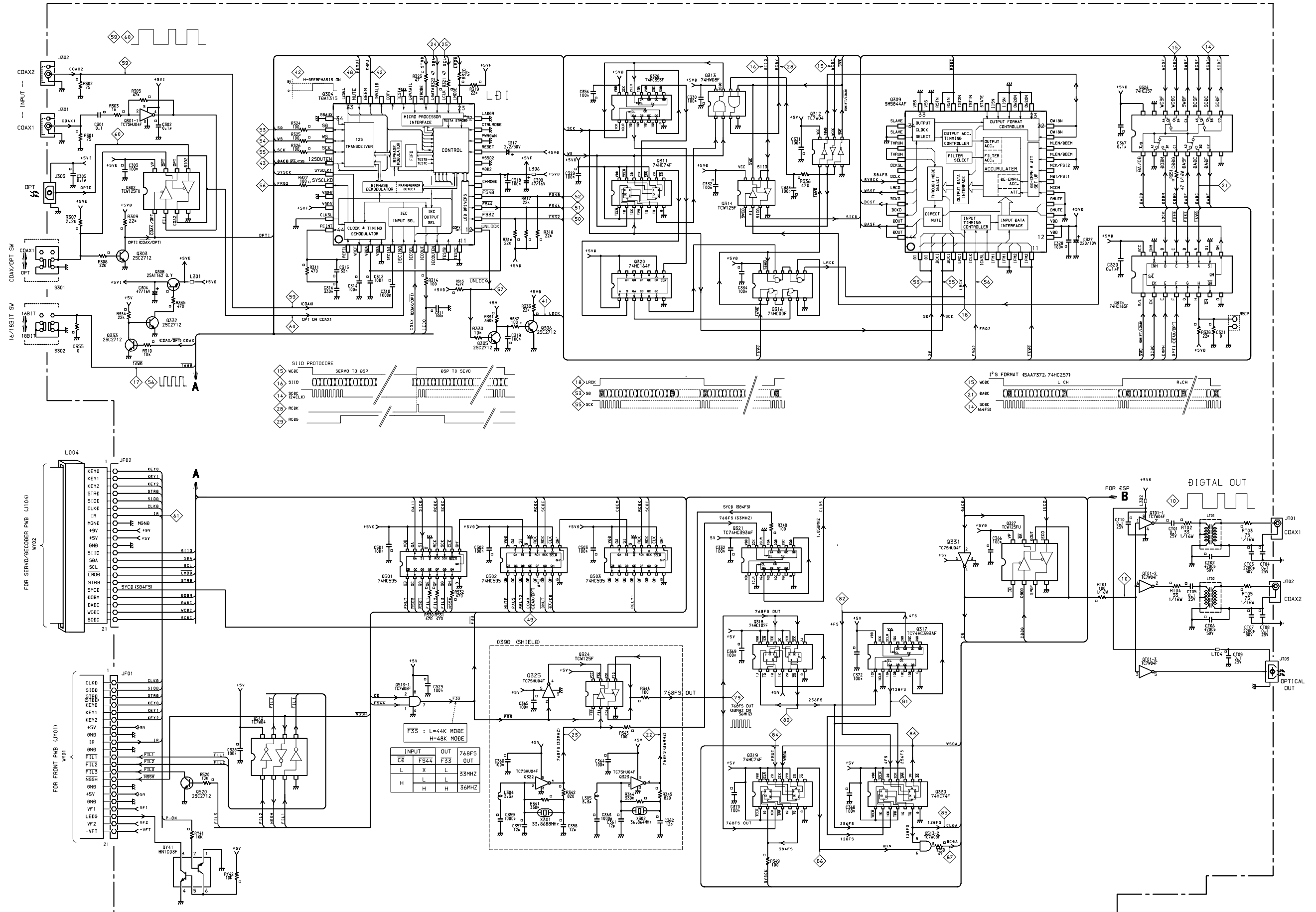


ANODE CONNECTION

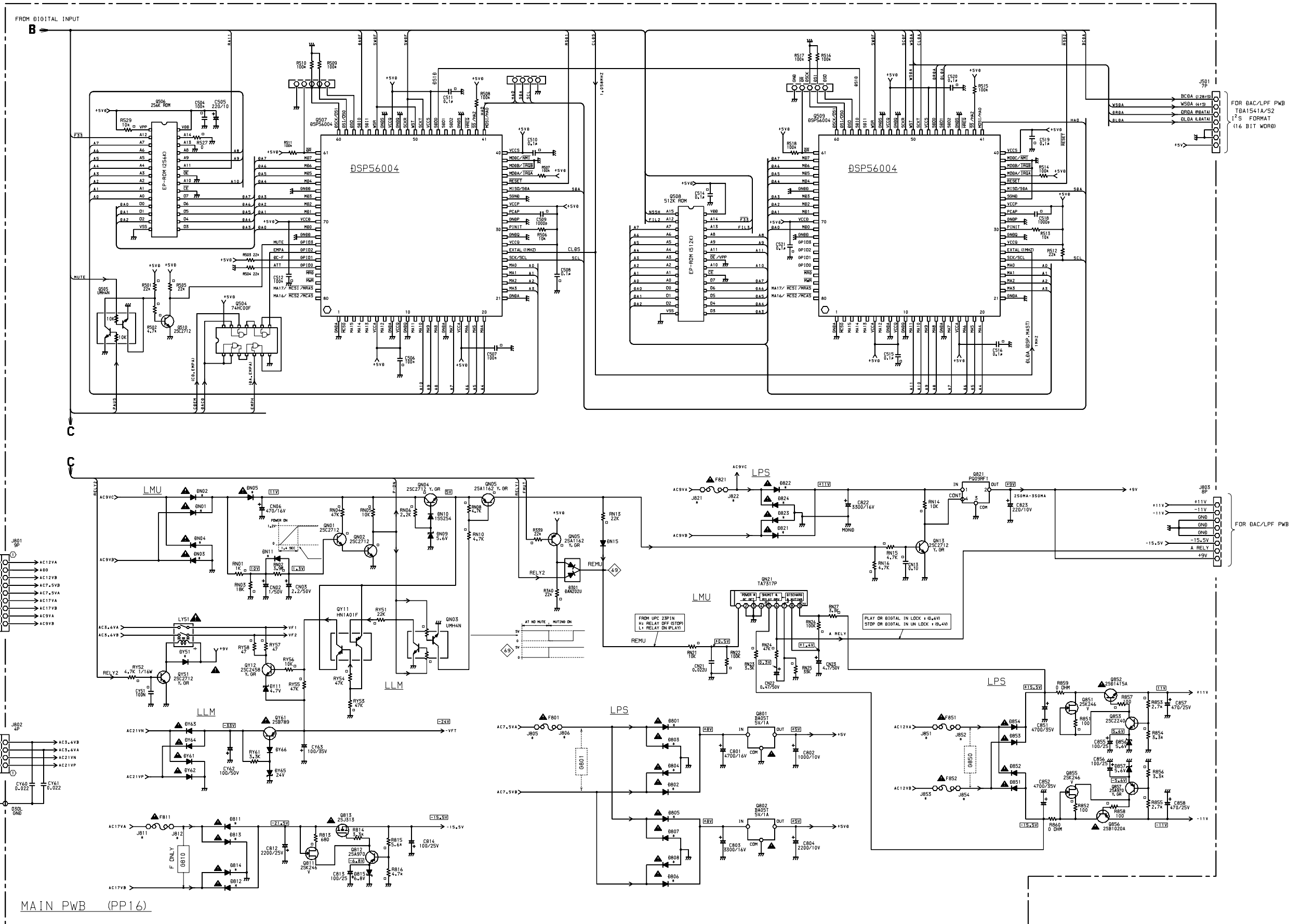
| | 6G | 5G | 4G | 3G | 2G | 1G |
|---|---------|-------|-------|-------|----------|----------|
| A | ERROR | A < B | 13 | 20 | 21 | - |
| B | SHUFFLE | - | 14 | 19 | 22 | COLON |
| C | RECALL | - | 15 | 18 | 23 | REPEAT |
| D | REPEAT | AMS | 16 | 17 | 24 | LAP TIME |
| E | DISC | - | - | TTL | REM 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 | INDEX | MIN | SEC |
| U | | | | | | |

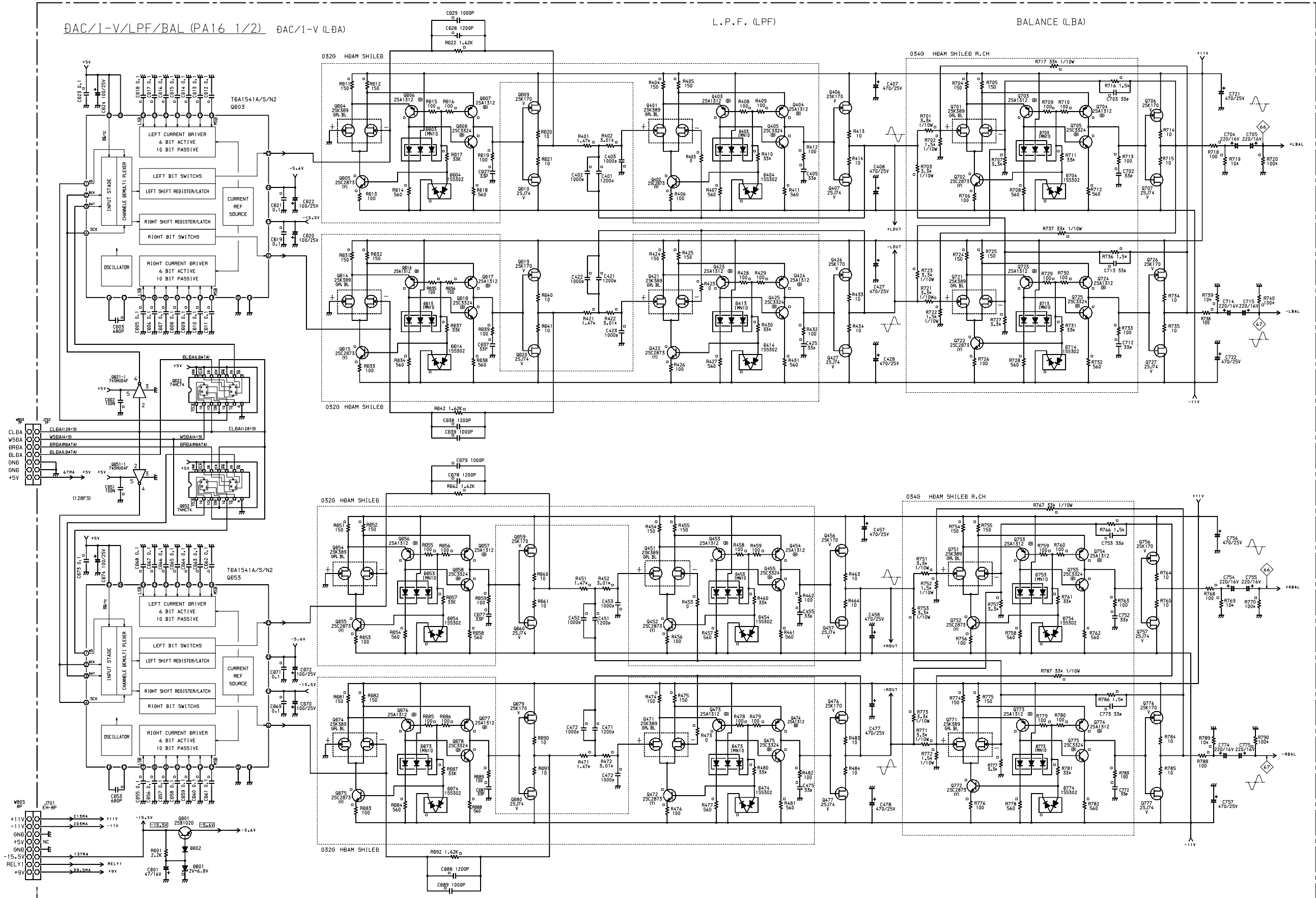
DISPLAY 6-BT-97ZK

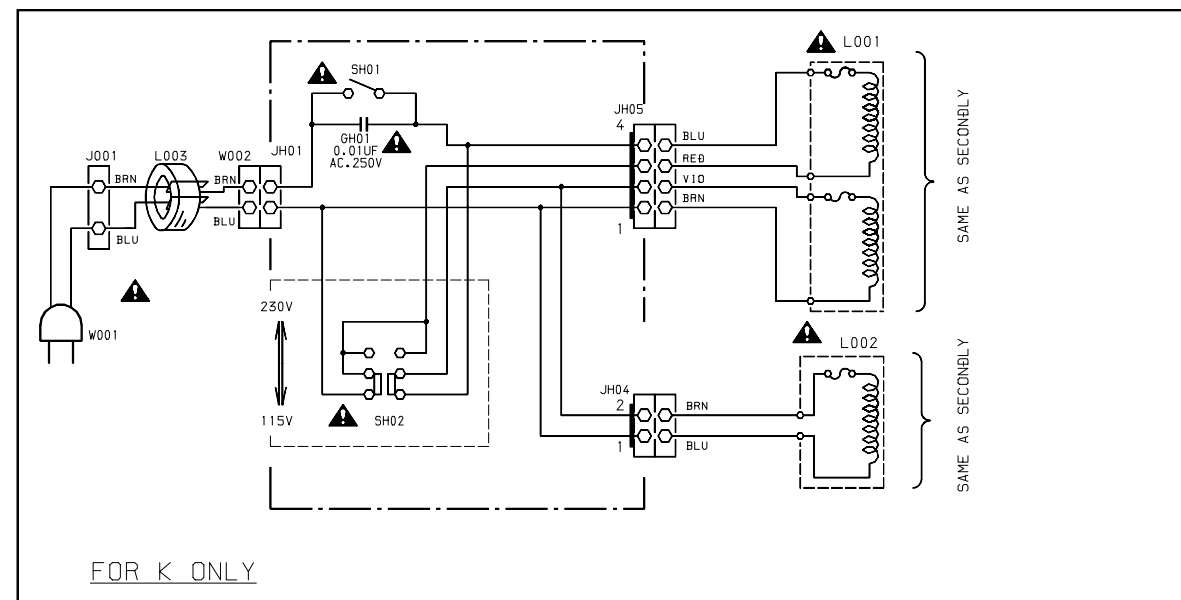
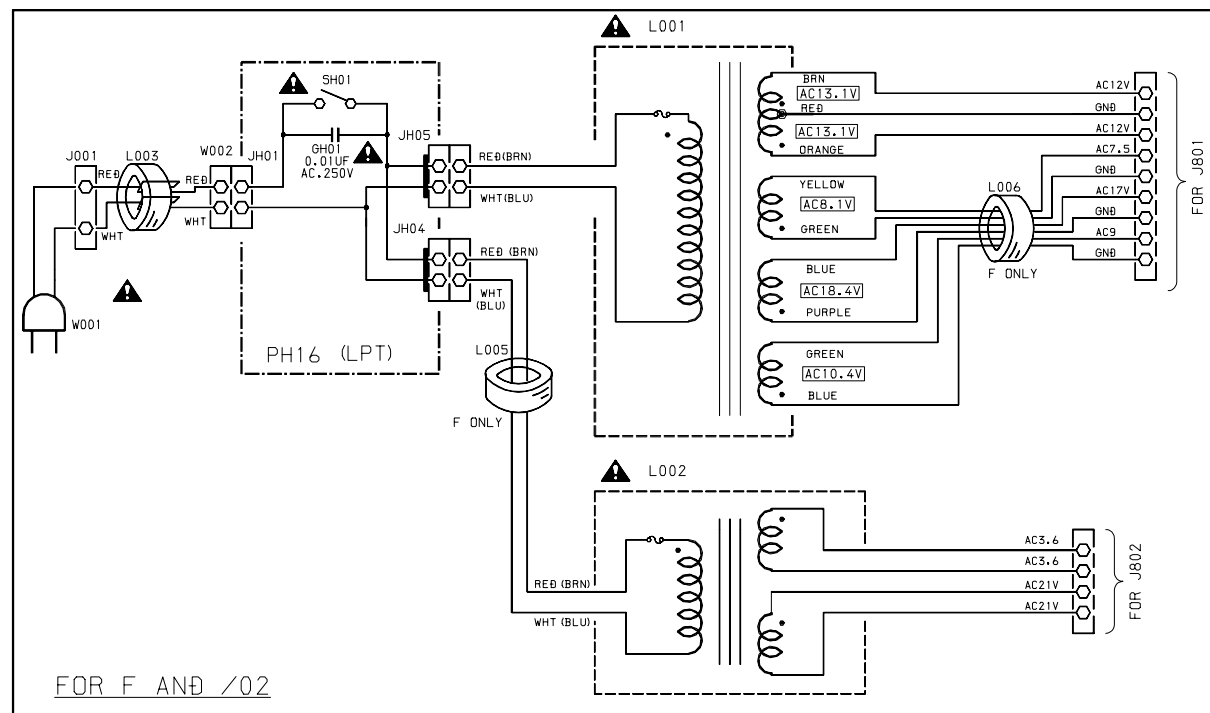
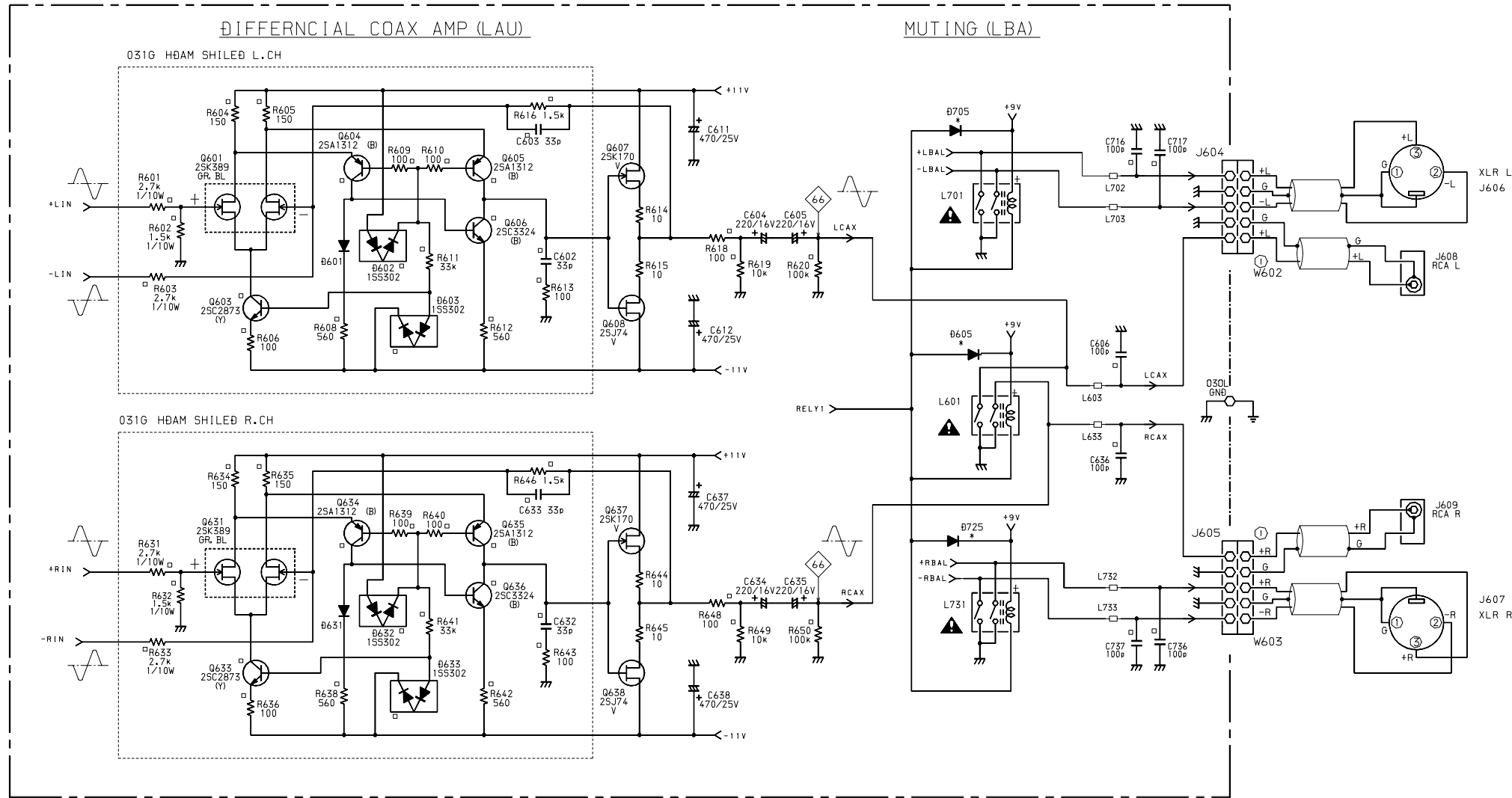
POWER AND DIG-INTERFACE (PP16 1/2)



POWER AND DIG-INTERFACE (PP16 2/2)







FOR F AND /02

FOR K ONLY

Q332 Q333 Q304
 Q308
 Q303 Q301 Q327
 Q305 Q306 Q315

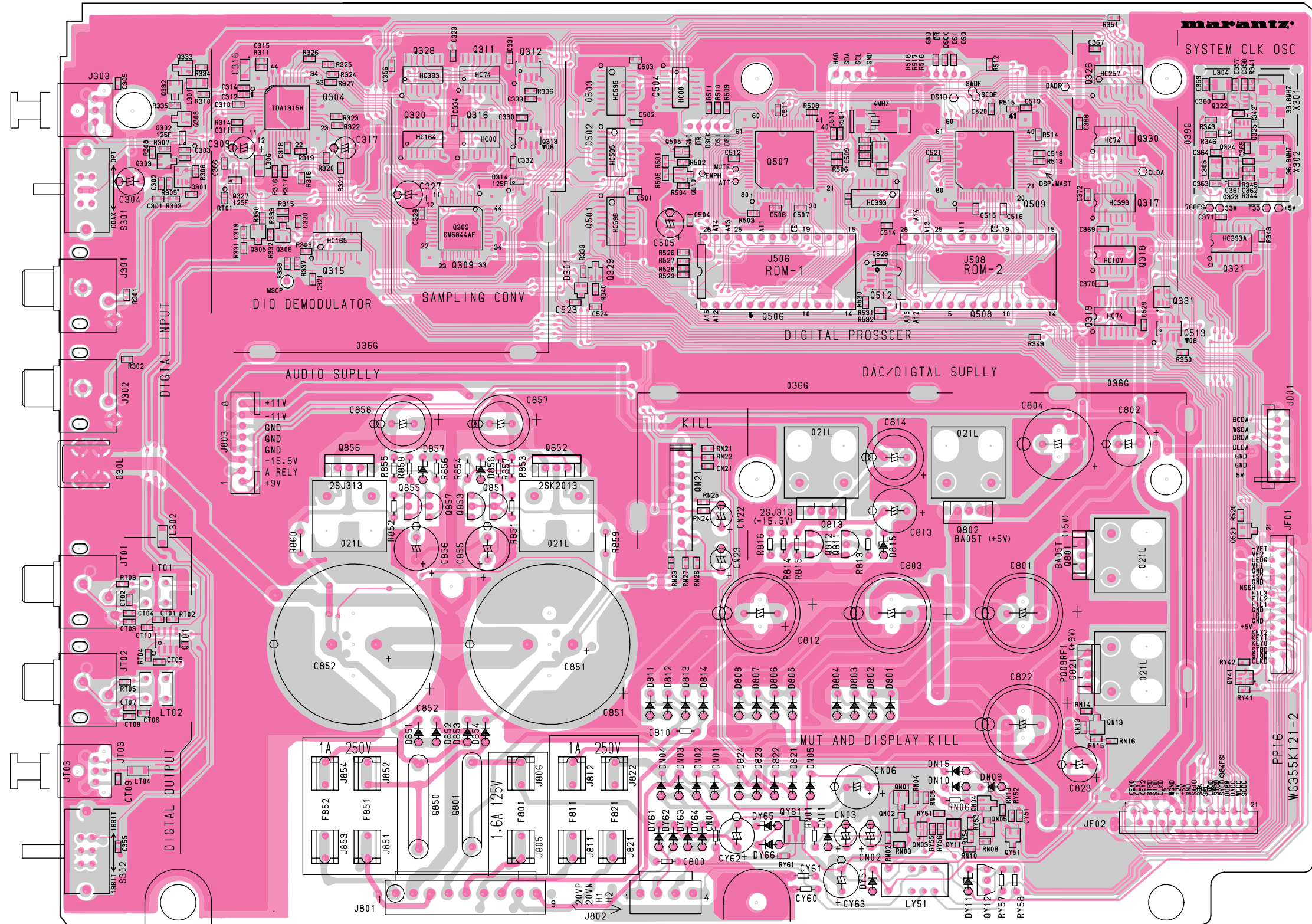
Q328 Q311
 Q320 Q316
 Q306

Q503 Q504
 Q502 Q505
 Q501 Q510
 Q329

Q507
 Q506
 Q512

Q509
 Q508

Q326
 Q330 Q322
 Q317 Q324 Q325
 Q318 Q331 Q323
 Q319 Q513 Q321



QT01

Q856 Q855 Q857 Q853 Q851 Q852

Q812 Q813 Q811

Q802

Q801

Q520

QY61

QN01 QN04
 QN02 QN03 QY11 QN05 QY51
 QY12

Q802

QN13

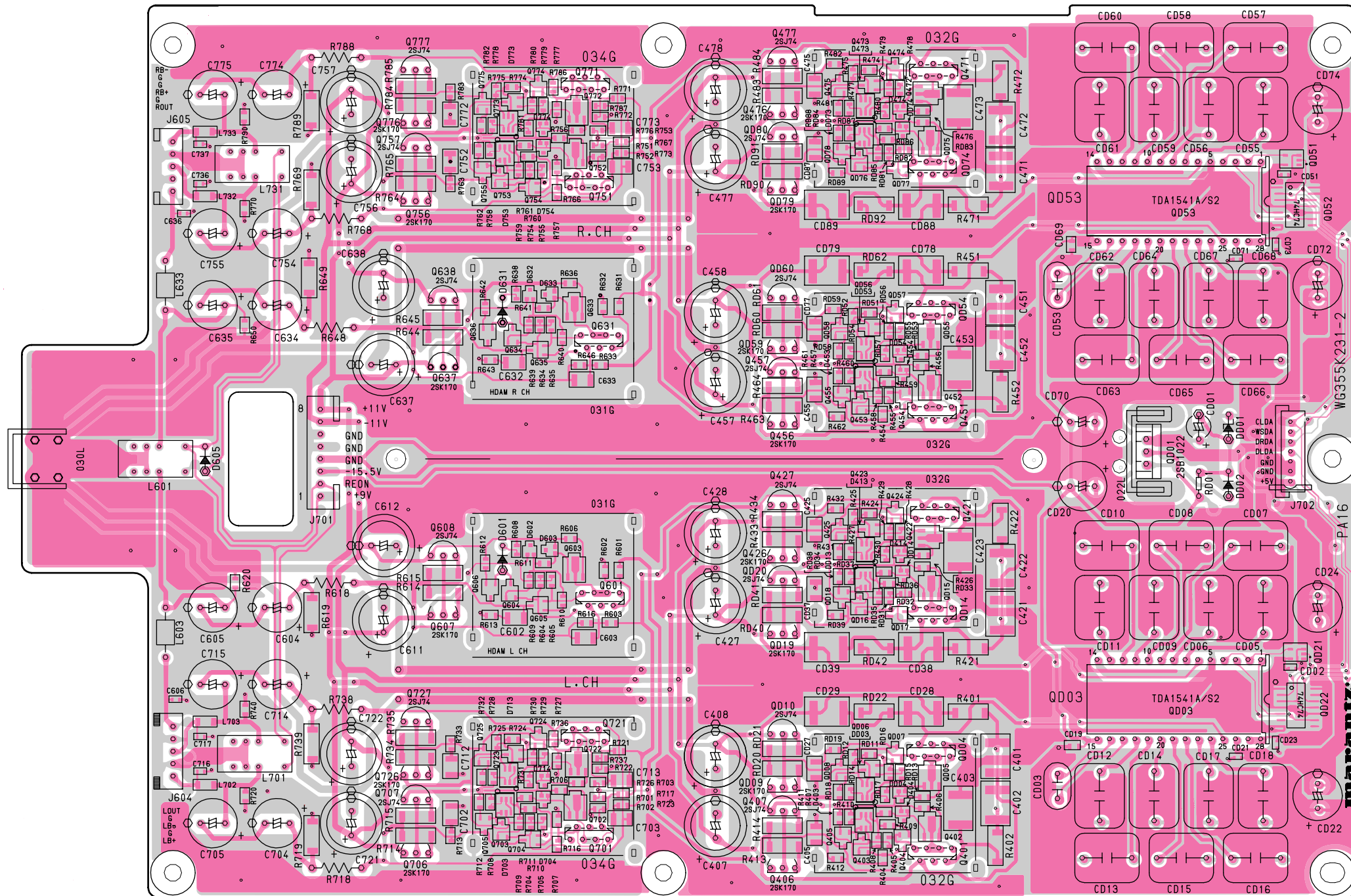
QY41

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

QD51
 QD52
 QD53
 QD01



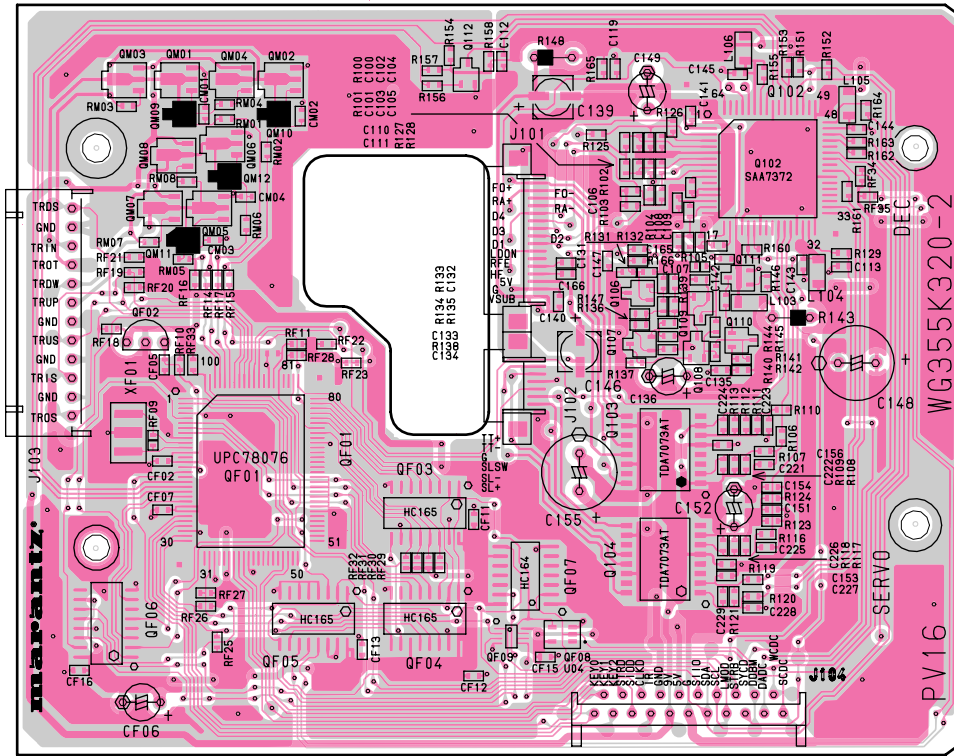
Q608
 Q607 Q606 Q604 Q605 Q603 Q601
 Q727 Q726 Q725 Q723 Q724 Q722 Q721
 Q707 Q706 Q705 Q703 Q704 Q702 Q701

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

QD21
 QD22
 QD03

PV16

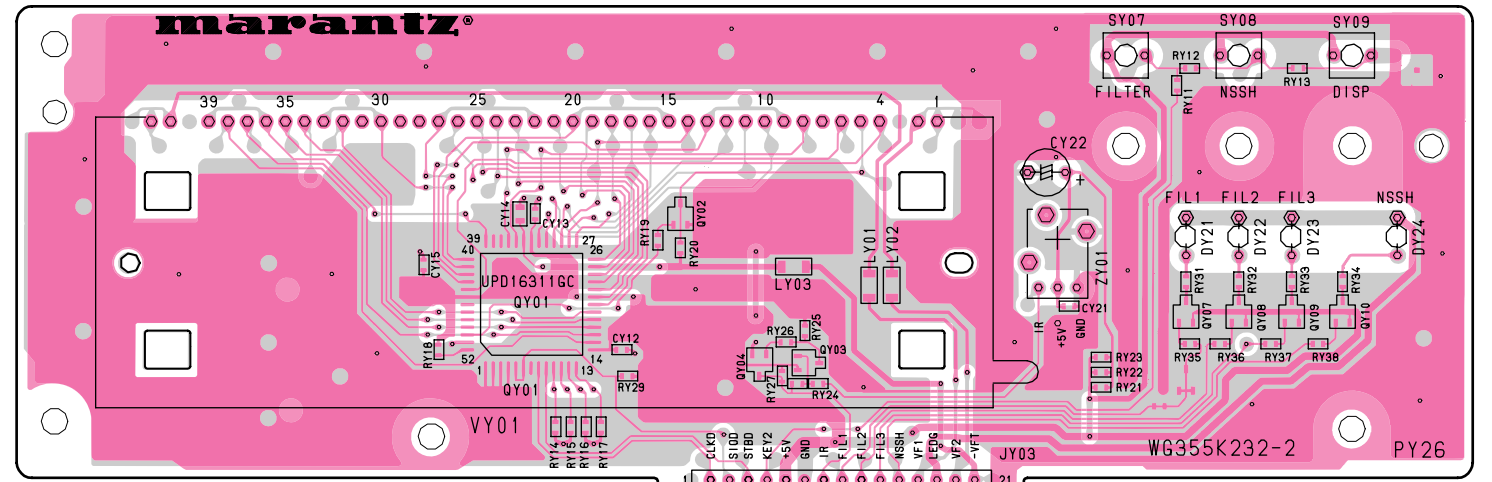
QM01 ~ QM12 Q112 Q106 ~ Q111 Q102
 QF02



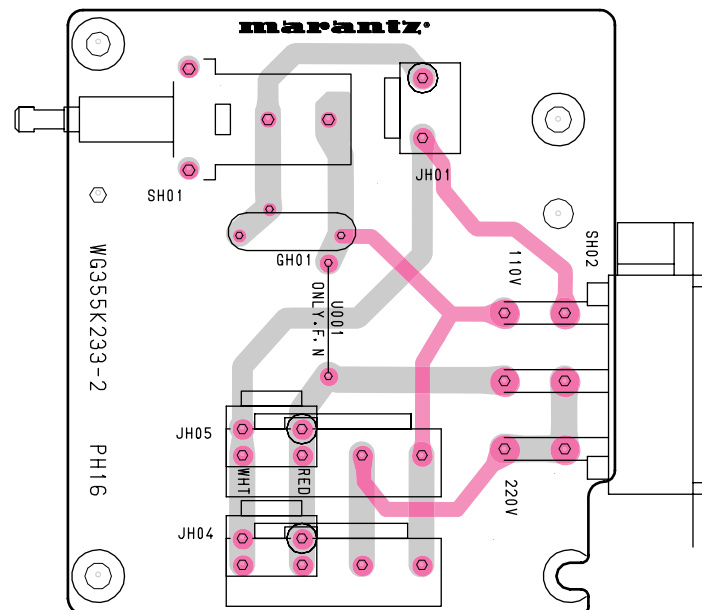
QF01 QF03 Q103 Q104
 QF06 QF05 QF04 QF07 QF08

PY16

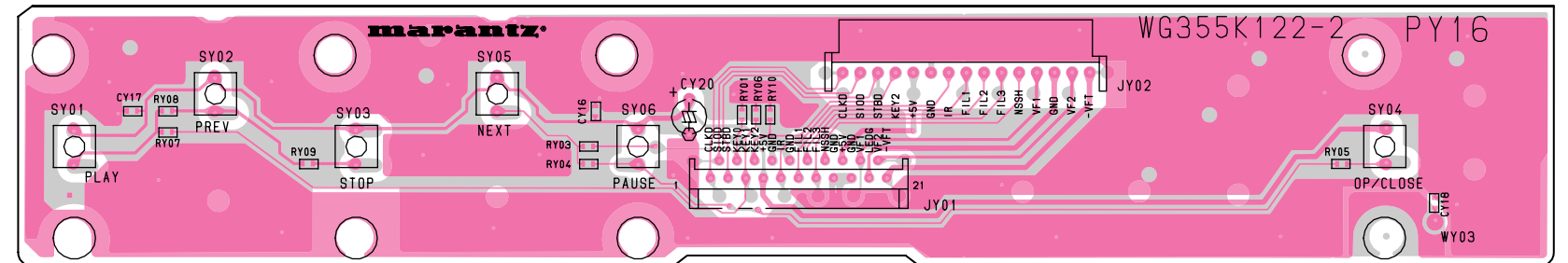
QY01 QY02 QY04 QY03 QY07 ~ QY10



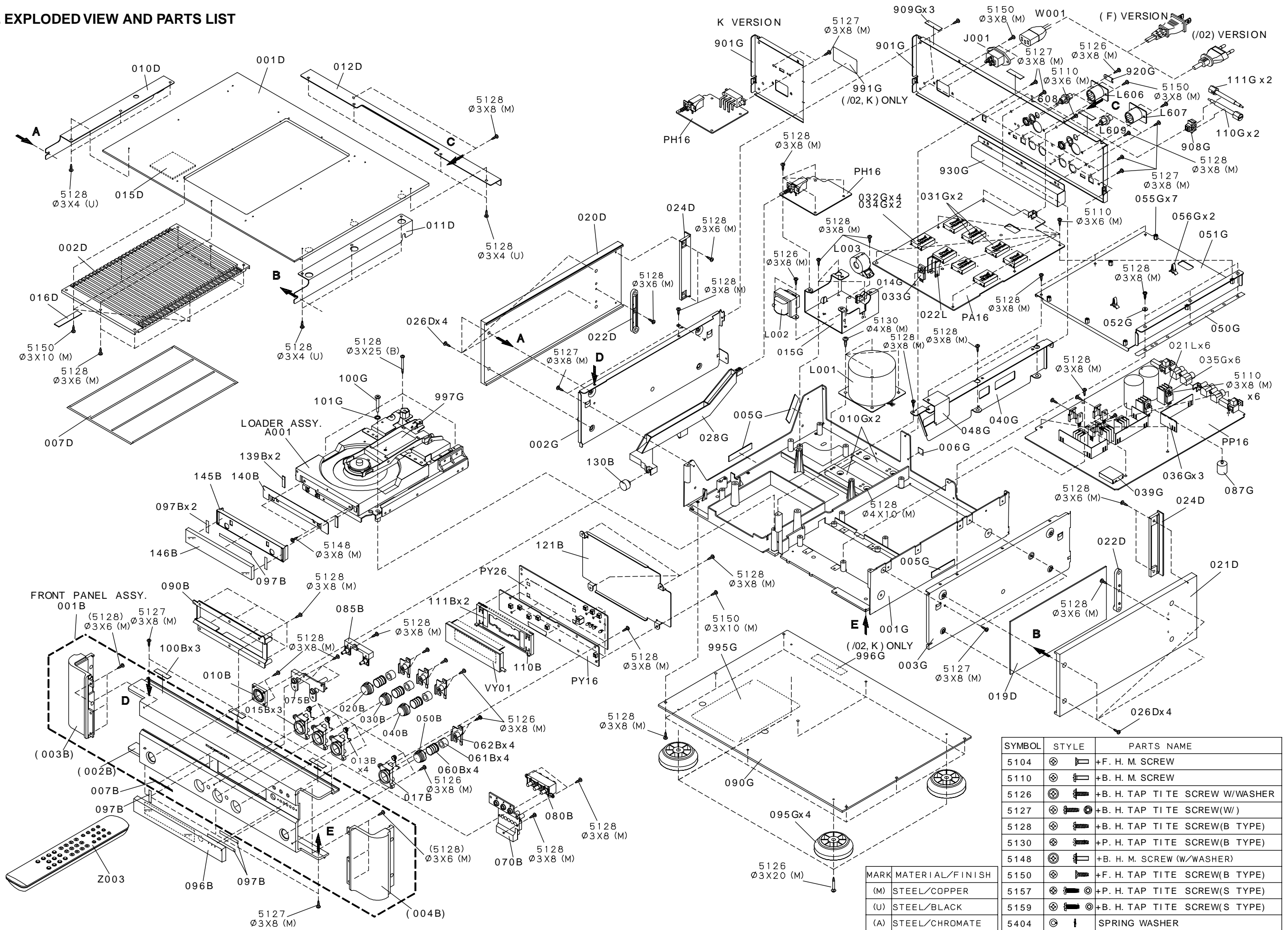
PH16



PY26



10. EXPLODED VIEW AND PARTS LIST



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

| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|--------------------|---------------------------|----------------|---------|-------------|--------------------|---------------------------------|----------------|
| 002B | | 4822 459 05285 | FRONT PANEL | 355K248110 | | | | PACKING | |
| 003B | | 4822 426 10823 | ESCUTCHEON, FRONT SIDE | 355K063110 | 001T | F | | | USER GUIDE |
| 004B | | 4822 426 10824 | PIECE LEFT GLD | | 001T | K | | USER GUIDE | 355K851350 |
| | | | ESCUTCHEON, FRONT SIDE | 355K063120 | 001T | /02 | 4822 736 16822 | USER GUIDE | 355K851310 |
| 007B | | 4822 454 13454 | PIECE RIGHT GLD | | | | | | |
| | | | BADGE, META-LETTER | 208J251010 | Z003 | | 4822 219 10702 | REMOTE COMMANDER, | ZK355K0010 |
| | | | MARANTZ SILVER | | | | | RC-D7CD | |
| 010B | | 4822 463 11251 | BUSHING, POWER BUTTON | 355K259040 | | | | | |
| 013B | | 4822 492 71359 | SPRING, RETAINER BUTTON | 270K115030 | | | | | |
| | | | GROUND | | | | | | |
| 015B | | 4822 463 11252 | RETAINER, BUSH BUTTON | 355K104120 | | | | | |
| | | | PLAY STOP PAUSE | | | | | | |
| 017B | | 4822 532 40221 | RETAINER, BUSH BUTTON | 270K104010 | | | | | |
| | | | OPEN/CLOSE | | | | | | |
| 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 | 355K259020 | | | | | |
| | | | BUTTON/LED | | | | | | |
| 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 | 355K158010 | | | | | |
| | | | SMOKE | | | | | | |
| 130B | | 4822 410 12405 | BUTTON, POWER ASSY GLD | 355K270510 | | | | | |
| 146B | | 4822 442 01801 | ESCUTCHEON, TRAY LID | 355K063030 | | | | | |
| | | | GLASS | | | | | | |
| 001D | | | LID, TOP COVER | 355K257110 | | | | | |
| 002D | | | ESCUTCHEON, LOUVER TOP | 231J063110 | | | | | |
| | | | COVER GLD | | | | | | |
| 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 | YJ04001240 | | | | | |
| | | | S-16116 | | | | | | |
| ▲ L001 | F | | MAINS TRANSFORMER 100V | TS46010010 | | | | | |
| ▲ L001 | K | | MAINS TRANSFORMER | TS46010040 | | | | | |
| | | | 110/220V | | | | | | |
| ▲ L001 | /02 | 4822 146 11139 | MAINS TRANSFORMER 230V | TS46010020 | | | | NOT STANDARD SPARE PARTS | |
| ▲ L002 | F | | SUB TRANSFORMER 100V | TS13521010 | | | | | |
| ▲ L002 | K | | SUB TRANSFORMER | TS13521040 | | | | | |
| | | | 110/220V | | | | | | |
| ▲ L002 | /02 | 4822 146 11141 | SUB TRANSFORMER 230V | TS13521020 | 001S | | | PACKING CASE, HI-FI GL | 355K801020 |
| L003 | | | FERRITE CORE, | FC50230010 | 002S | | | CUSHION, FRONT | 270K809010 |
| | | | TFCK-23-11-14 | | 003S | | | CUSHION, REAR | 270K809020 |
| L004 | | | FERRITE CORE, | FC90280010 | 009S | | | PROTECTOR, COVER | 355K269010 |
| | | | HF70SH28X2X10 | | | | | | |
| L005 | F | | FERRITE CORE, | FC50150020 | Z001 | | | BATTERY, UM-4NEPH/2S | ZF24302000 |
| | | | ZCAT1518-0730 | | Z002 | | | CONNECTIVE CORD, | ZD01000680 |
| L006 | F | | FERRITE CORE, | FC50150020 | | | | RCA CABLE ASSY | |
| | | | ZCA1518-0730 | | | | | | |
| 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 | | | | | |

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

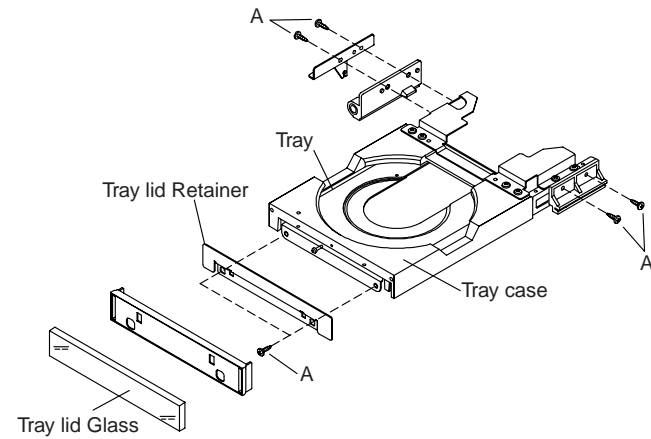
| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|--------------------|----------------------------|----------------|---------|-------------|--------------------|-------------------------------------|----------------|
| A001 | | 4822 691 10787 | LOADER ASSY VAM1252 | 355K304520 | 155M | | 4822 441 12323 | CASE, TRAY BLK | 167K064140 |
| 012M | | 4822 528 81163 | PULLEY, WIRE WHEEL F | 167K262010 | 157M | | 4822 535 92576 | SHAFT, TRAY GUIDE PINS | 167K112050 |
| 013M | | 4822 530 70043 | RG RING E, WHEEL | 64002500R0 | 160M | | 4822 402 61089 | LEVER, TRAY LIFT LEFT | 167K354500 |
| 014M | | 4822 528 81387 | PULLEY, WIRE WHEEL R | 221K262010 | 161M | | 4822 492 70633 | SPRING, TRAY LIFT LEFT | 221K115070 |
| 015M | | 4822 530 70043 | RG RING E, WHEEL R | 64002500R0 | 162M | | 4822 402 61091 | LEVER, TRAY LIFT RIGHT | 167K354510 |
| 020M | | 4822 528 81238 | PULLEY, MIDDLE TRAY DRIVE | 167K262050 | 163M | | 4822 492 70632 | SPRING, TRAY LIFT RIGHT | 221K115060 |
| 021M | | 4822 530 70043 | RG RING E, E MIDDLE PULLEY | 64002500R0 | 164M | | 4822 418 10424 | TRAY, U/D DISC BLK | 355K163010 |
| 022M | | 4822 528 81166 | PULLEY, MOTOR | 167K262040 | 165M | | 4822 418 10425 | TRAY, SINGLE VAM1252 | 355K163020 |
| 024M | | | COVER, MOTOR | 225K053010 | 166M | | 4822 532 11697 | BUSHING, TRAY GUIDE | 167K259010 |
| 025M | | 4822 358 30762 | BELT, MOTOR | 167K264010 | 167M | | 4822 532 21323 | BUSHING, TRAY GUIDE | 167K259020 |
| 026M | | 4822 358 31065 | BELT, TRAY DRIVE | 221K264010 | 168M | | 4822 532 11698 | BUSHING, DISC BUFFER | 167K259040 |
| 027M | | 4822 321 30374 | JOINT, WIRE ROPE | 221K125010 | 169M | | | BUFFER, SILENCER SHEET | 355K056010 |
| 028M | | 4822 492 33161 | SPRING, WIRE TENSION | 221K115030 | 501M | | 4822 691 10788 | MECHANISM, VAM 1252 | 355K304600 |
| 045M | | 4822 528 30392 | CAM, CLAMPER DRIVE | 221K054010 | 502M | | 4822 691 10789 | CASE, MECHA VAM 1252 | 355K064010 |
| 046M | | 4822 530 70043 | RG RING E, E 045M + 070M | 64002500R0 | 503M | | | SHAFT, SUB-FIX AND TRAY GUIDE | 221K112040 |
| 047M | | 4822 528 81164 | PULLEY, CLAMPER MIDDLE | 167K262020 | 506M | | 4822 532 21452 | BUSHING, SUSPENSION RUBBER | 221K259010 |
| 048M | | 4822 530 70043 | RG RING E, E MIDDLE PULLEY | 64002500R0 | 507M | | 4822 492 11745 | SPRING, SUSPENSION | 355K115010 |
| 049M | | 4822 528 81166 | PULLEY, MOTOR | 167K262040 | 508M | | 4822 530 70561 | RETAINER, SUSPENSION SPRING STOPPER | 221K104020 |
| 051M | | 4822 358 30762 | BELT, MOTOR | 167K264010 | 512M | | 4822 530 80349 | SPRING WASHER, FOR 504M | 54040302N0 |
| 052M | | 4822 358 30763 | BELT, CAM DRIVE | 167K264020 | 513M | | | SPACER, 502M, TO 169M, 170M | 291K118030 |
| 073M | | 4822 492 70628 | SPRING, DOWN ADJUSTER | 167K115060 | M002 | | 4822 361 60467 | D.C MOTOR, TRAY DRIVE | MM00800010 |
| 074M | | | SHAFT, CLAMPER BEARING | 221K112010 | M003 | | 4822 361 60447 | D.C MOTOR, CLAMPER DRIVE | MM01200130 |
| 075M | | 4822 530 70043 | RG RING E, BEARING SHAFT | 64002500R0 | S001 | | 4822 277 21132 | SLIDE SW., TRAY IN END SMK | SS01020590 |
| 076M | | 4822 535 93105 | SHAFT, L/R ADJUSTER | 221K112020 | S002 | | 4822 277 21132 | SLIDE SW., TRAY OUT END SMK | SS01020590 |
| 077M | | 4822 492 70631 | SPRING, L/R ADJUSTER | 221K115050 | S003 | | 4822 277 21132 | SLIDE SW., CLAMPER DOWN END SENSOR | SS01020590 |
| 078M | | 4822 530 70122 | RG RING E, E ADJUSTER END | 64000200R0 | S004 | | 4822 271 30712 | MINI SW., CLAMPER UP END SENSOR | SM01020550 |
| 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 OUT-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 | | | | | | |

11. TRAY MECHANISM ADJUSTMENTS

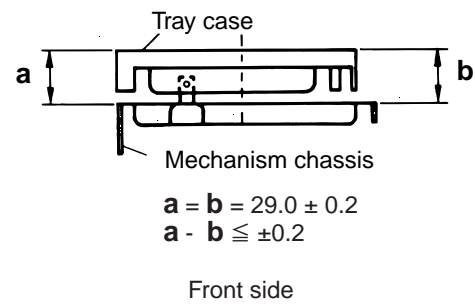
1. When mounting tray and tray case

(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.

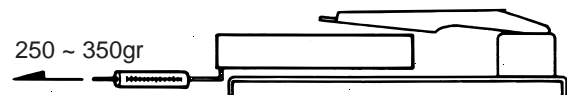


For the tray tilt adjustment, refer to the figure below.

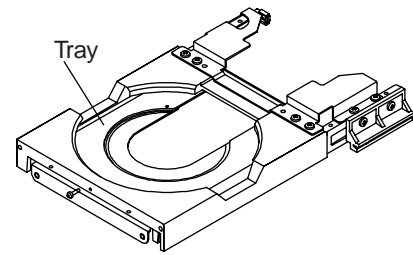


Adjust the tilt with screws A.

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



2. When the tray is disengaged to the lower side

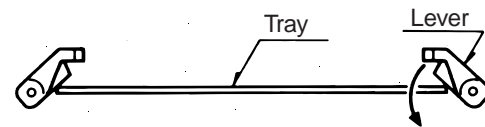


When the tray is pushed downward without the sub-chassis (VAM1252), it will be disengaged. So care will be necessary.

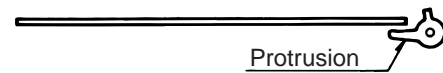
(Closing the tray without the sub-chassis also disengages the tray.)

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 :

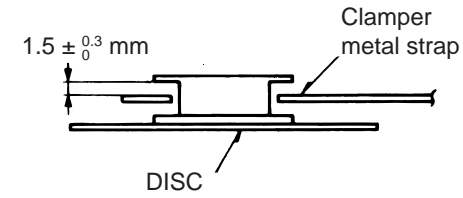
If both the levers are brought down at the same time, the tray cannot be raised. The levers should be brought down one by one.

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

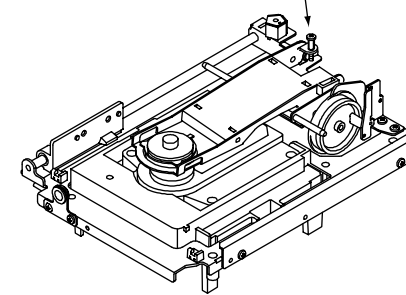
3. When replacing the sub-chassis (VAM1252)

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

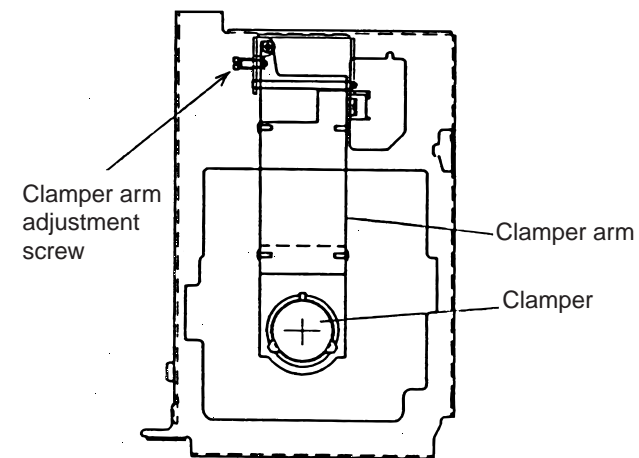
Standard ($1.5 \pm 0.3 / -0$ mm)



Clamber metal Strap height adjustment screw

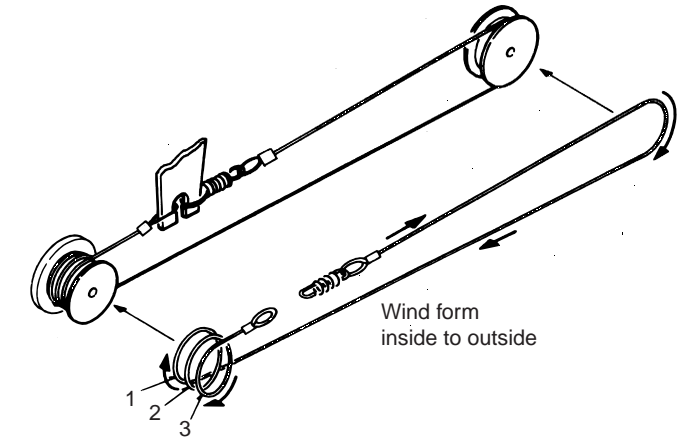


- b) After replacing the sub-chassis, readjust so that the magnet clamber does not touch the clamber metal strap at right and left sides. (The clamber metal strap should not be touched to other straps.)



4. Others

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



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

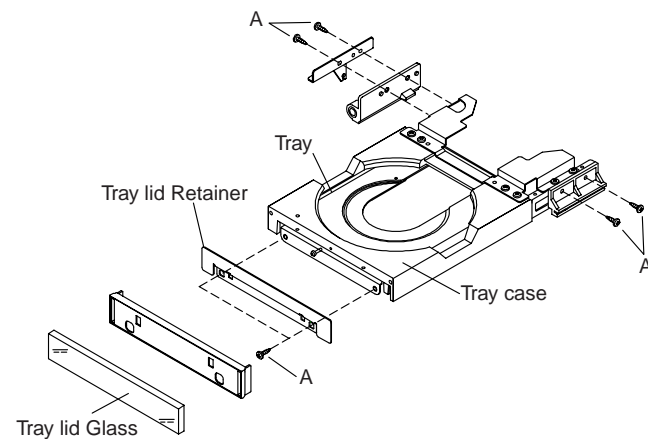


11. トレーメカニズムの調整

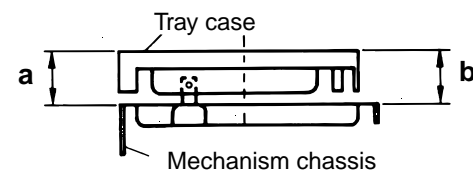
1. トレーおよびトレーケース取り付け時

(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。



$$a = b = 29.0 \pm 0.2$$

$$a - b \leq \pm 0.2$$

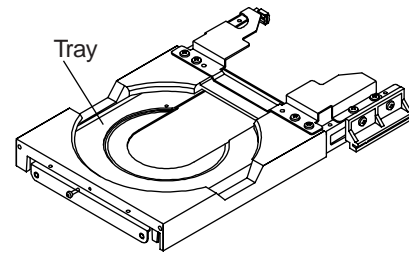
Front side

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

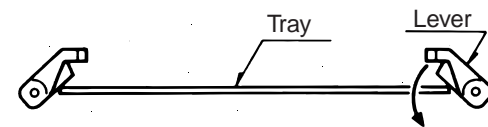


次の条件では、トレーが下側に外れるので注意願います。サブシャーシ (VAM1252) が無い状態にてトレーを下側に押すと外れます。

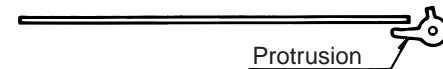
(サブシャーシが無い状態にてCLOSEした時も同様です。)

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。

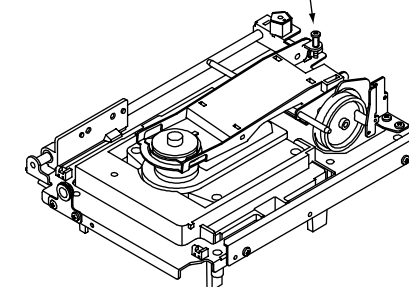
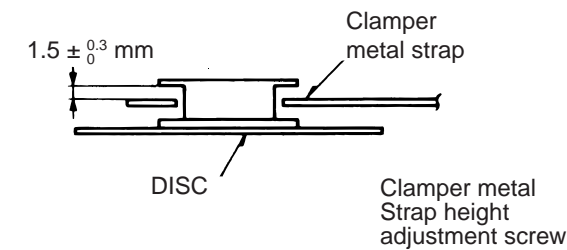


【注意】

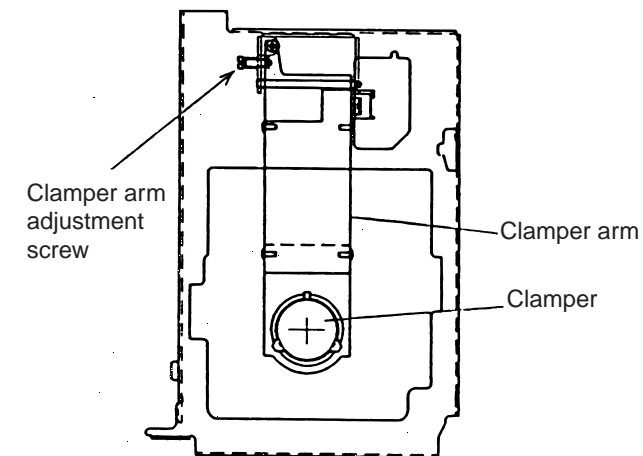
左右、2つのレバーを一度に下げても、トレーは上げられませんので、必ず片方ずつ下げて作業してください。トレーを無理に元の位置まで戻すと、トレーケースに圧入されている2本のピンが曲がる危険があります。

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)

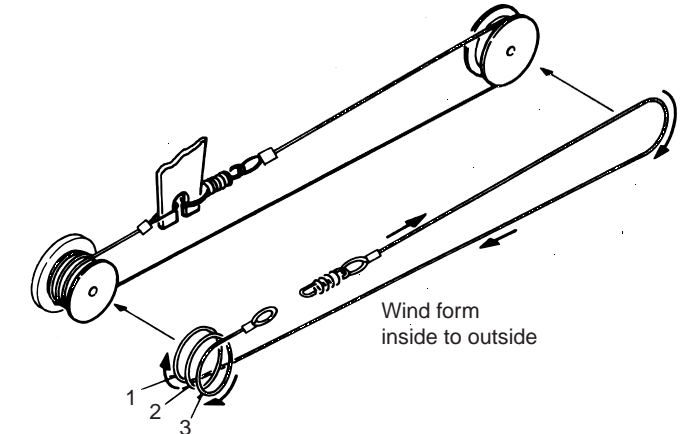


- b) サブシャーシ交換後、マグネットクランパーがクランパー金具に左右接触しないように、クランパーアーム調整ネジを再調整して下さい。(その際、クランパー金具と他の金具とが接しない様にする事)

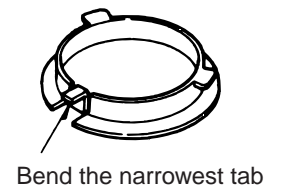


4. その他

- 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)。

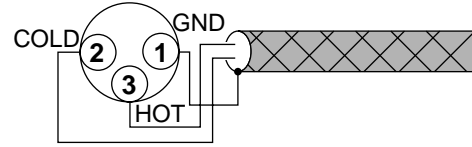


- b) マグネットクランパー (094M) の交換は1ヶ所曲がる構造の爪となっていますので、爪を傾けて取り外し、取り付けてください。一番幅の細い爪が傾きます。



12. BALANCED JACKS

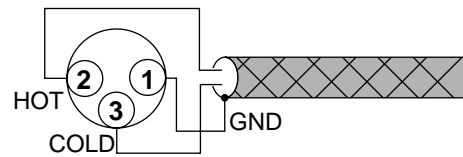
- The balanced output connector uses a XLR connector.
- The XLR connector for professional use is internally wired in either of the following two systems.
 - USA system (PIN 2 = COLD, PIN 3 = HOT)



12. BALANCED 端子について

- BALANCED 端子には XLR コネクターを使用しています。
- 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。
 - USA 方式 (2 PIN=COLD 3 PIN=HOT)

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



- ヨーロッパ方式 (2 PIN=HOT 3 PIN=COLD)

- 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.

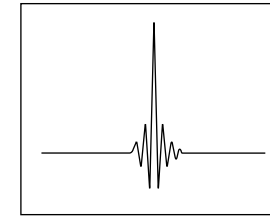
- CD-7 では、1. の USA 方式を採用しています。

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 2 PIN と 3 PIN 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

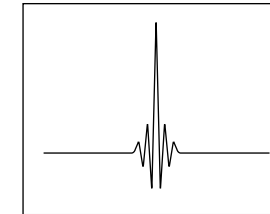
FILTER-1

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



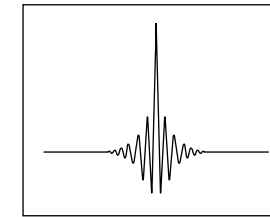
FILTER-2

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興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灯します。

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

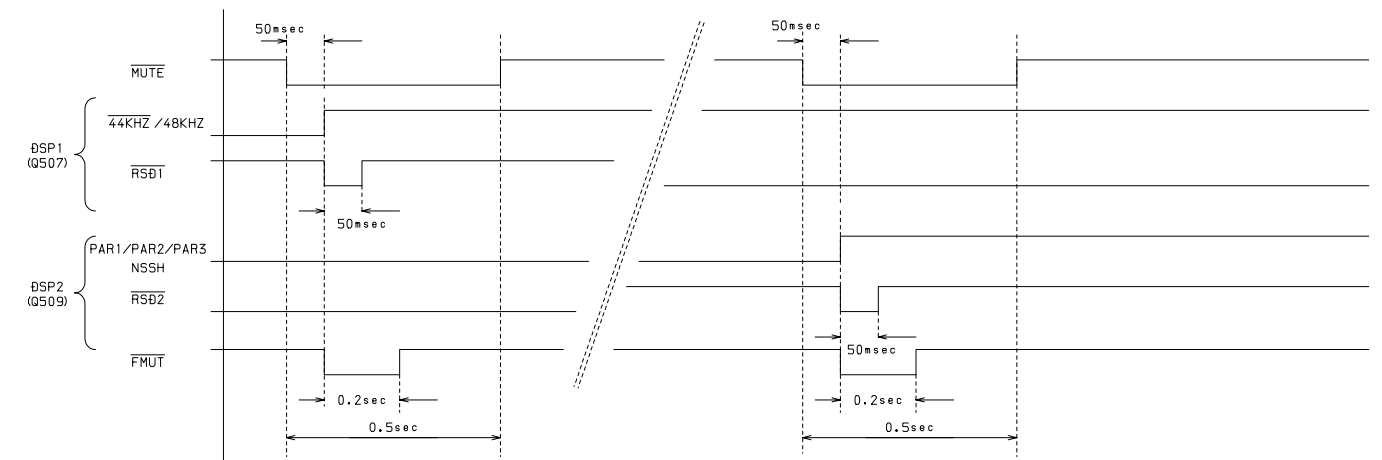
| ROM-1 | | | | |
|-------|-----|-----|-----|------------|
| A14 | A13 | A12 | A11 | FUNCTIONS |
| L | L | L | L | 44kHz mode |
| L | L | L | H | ---- mode |
| L | L | H | L | 48kHz mode |

| 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 | ---- |

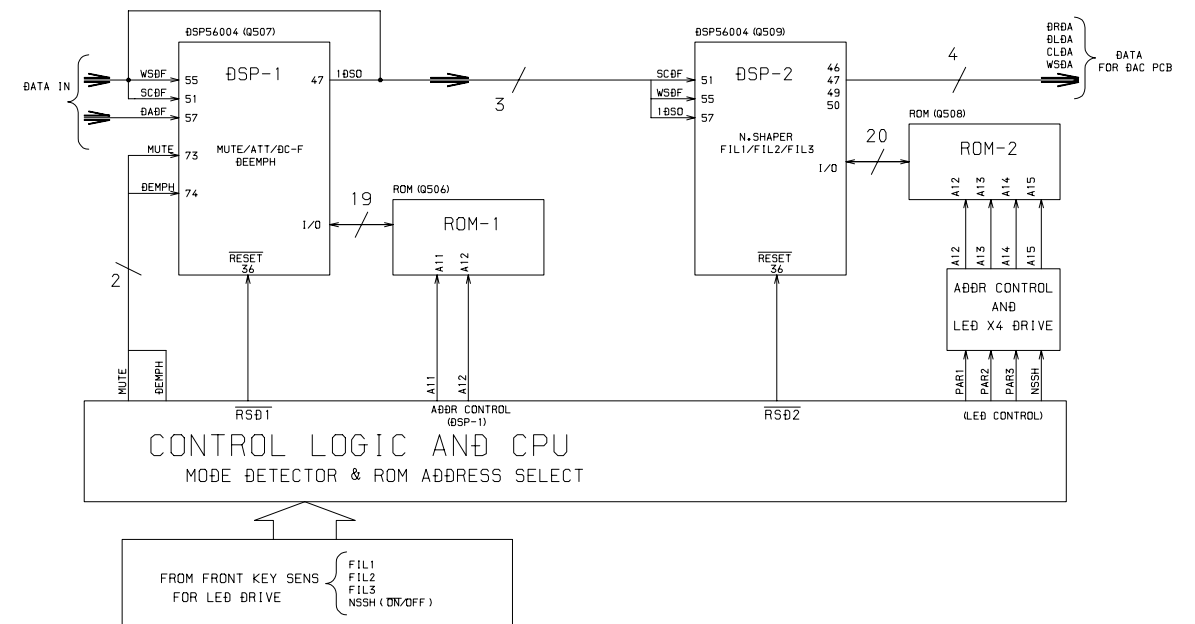
NOTE:A15 IS USED TO SWITCH ON/OFF THE NOISE SHAPER (LOW=OFF)

Figure 1

DSP PARAMETER SETTING TIMING



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
 Disc type
 Temp.coeff.P350 ~N1000, 50V
 ② Capacity value
 ③ 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
 Disc type
 Temp.chara. 2B4, 50V
 ④ 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
 One-way lead type, Tolerance ±20%
 ⑤ Working voltage
 ⑥ 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
 One-way type, Mylar ±10% 50V
 ⑦ 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 (R105, 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 → ERD-2FCG××× (±2% 1/4W)
 NF02×××140 → ERD-2FCG××× (±2% 1/4W)
 RF02×××140 → ERD-2FCG××× (±2% 1/4W)

* 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) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|------------------------------------|-------------|--------------------|--------------------------|----------------|---------|-------------|--------------------|-------------------------|----------------|
| PA16-DAC/HDAM CIRCUIT BOARD | | | | | C473 | | 4822 126 14579 | MICA 1000pF 100WV CHIP | DF95102510 |
| PA16-CAPACITORS | | | | | C475 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 |
| CD01 | | 4822 124 41539 | ELECT 47μF ±20% 16V | OA47601620 | C477 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 |
| CD02 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 | C478 | F | 4822 124 22242 | ELECT 470μF 16V | OA47701640 |
| CD03 | F | 4822 121 70319 | FILM 680pF ±5% 100V CHIP | OF55681540 | C478 | K/02 | 4822 124 80958 | ELECT 470μF 25V | OA47702550 |
| CD03 | K/02 | 4822 121 70319 | FILM 470pF ±5% 50V | OF15471030 | C602 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 |
| CD05 | | 4822 121 10867 | FILM 0.1μF ±5% 100V CHIP | OF55104540 | C603 | | 4822 123 30422 | MICA 33pF 500WV CHIP | DF95330500 |
| CD18 | | 4822 126 12061 | CER. 0.1μF ±10% 25V CHIP | DK56104200 | C604 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| CD19 | | 4822 124 22238 | ELECT 100μF 25V | OA10702550 | C605 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| CD20 | F | 4822 124 80119 | ELECT 100μF 25V | OA10702540 | C606 | | 4822 126 11759 | CER. 100pF ±5% 50V CHIP | DD95101300 |
| CD21 | K/02 | 4822 124 80119 | CER. 0.1μF +80%-20% CHIP | DK98104200 | C611 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 |
| CD22 | | 4822 124 22238 | ELECT 100μF 25V | OA10702550 | C611 | K/02 | 4822 124 80958 | ELECT 470μF 16V | OA47701640 |
| CD23 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 | C612 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 |
| CD24 | | 4822 124 22238 | ELECT 100μF 25V | OA10702550 | C612 | K/02 | 4822 124 80958 | ELECT 470μF 16V | OA47701640 |
| CD27 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 | C632 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 |
| CD28 | | 4822 126 14578 | MICA 1200pF 100WV CHIP | DF95122510 | C633 | | 4822 123 30422 | MICA 33pF 500WV CHIP | DF95330500 |
| CD29 | | 4822 126 14579 | MICA 1000pF 100WV CHIP | DF95102510 | C634 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| CD37 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 | C635 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| CD38 | | 4822 126 14578 | MICA 1200pF 100WV CHIP | DF95122510 | C636 | | 4822 126 11759 | CER. 100pF ±5% 50V CHIP | DD95101300 |
| CD39 | | 4822 126 14579 | MICA 1000pF 100WV CHIP | DF95102510 | C637 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 |
| CD51 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 | C637 | K/02 | 4822 124 80958 | ELECT 470μF 16V | OA47701640 |
| CD53 | F | 4822 121 70319 | FILM 680pF ±5% 100V CHIP | OF55681540 | C638 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 |
| CD53 | K/02 | 4822 121 70319 | FILM 470pF ±5% 50V | OF15471030 | C638 | K/02 | 4822 124 80958 | ELECT 470μF 16V | OA47701640 |
| CD55 | | 4822 121 10867 | FILM 0.1μF ±5% 100V CHIP | OF55104540 | C702 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 |
| CD68 | | 4822 126 12061 | CER. 0.1μF ±10% 25V CHIP | DK56104200 | C703 | | 4822 123 30422 | MICA 33pF 500WV CHIP | DF95330500 |
| CD69 | | 4822 124 22238 | ELECT 100μF 25V | OA10702550 | C704 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| CD70 | F | 4822 124 80119 | ELECT 100μF 25V | OA10702540 | C705 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| CD71 | K/02 | 4822 124 80119 | CER. 0.1μF +80%-20% CHIP | DK98104200 | C712 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 |
| CD72 | | 4822 124 22238 | ELECT 100μF 25V | OA10702550 | C713 | | 4822 123 30422 | MICA 33pF 500WV CHIP | DF95330500 |
| CD73 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 | C714 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| CD74 | | 4822 124 22238 | ELECT 100μF 25V | OA10702550 | C715 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| CD77 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 | C716 | | 4822 126 11759 | CER. 100pF ±5% 50V CHIP | DD95101300 |
| CD78 | | 4822 126 14578 | MICA 1200pF 100WV CHIP | DF95122510 | C717 | | 4822 126 11759 | CER. 100pF ±5% 50V CHIP | DD95101300 |
| CD79 | | 4822 126 14579 | MICA 1000pF 100WV CHIP | DF95102510 | C721 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 |
| CD87 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 | C721 | K/02 | 4822 124 80958 | ELECT 470μF 16V | OA47701640 |
| CD88 | | 4822 126 14578 | MICA 1200pF 100WV CHIP | DF95122510 | C722 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 |
| CD89 | | 4822 126 14579 | MICA 1000pF 100WV CHIP | DF95102510 | C722 | K/02 | 4822 124 80958 | ELECT 470μF 16V | OA47701640 |
| C401 | | 4822 126 14578 | MICA 1200pF 100WV CHIP | DF95122510 | C736 | | 4822 126 11759 | CER. 100pF ±5% 50V CHIP | DD95101300 |
| C402 | | 4822 126 14579 | MICA 1000pF 100WV CHIP | DF95102510 | C737 | | 4822 126 11759 | CER. 100pF ±5% 50V CHIP | DD95101300 |
| C403 | | 4822 126 14579 | MICA 1000pF 100WV CHIP | DF95102510 | C752 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 |
| C405 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 | C753 | | 4822 123 30422 | MICA 33pF 500WV CHIP | DF95330500 |
| C407 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 | C754 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| C407 | K/02 | 4822 124 80958 | ELECT 470μF 16V | OA47701640 | C755 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| C408 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 | C756 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 |
| C408 | K/02 | 4822 124 80958 | ELECT 470μF 16V | OA47701640 | C756 | K/02 | 4822 124 80958 | ELECT 470μF 16V | OA47701640 |
| C421 | | 4822 126 14578 | MICA 1200pF 100WV CHIP | DF95122510 | C757 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 |
| C422 | | 4822 126 14579 | MICA 1000pF 100WV CHIP | DF95102510 | C757 | K/02 | 4822 124 22242 | ELECT 470μF 25V | OA47702550 |
| C423 | | 4822 126 14579 | MICA 1000pF 100WV CHIP | DF95102510 | C772 | | 4822 123 30361 | MICA 56pF 500WV CHIP | DF95560500 |
| C425 | | 4822 123 30361 | MICA 0.1μF +80%-20% CHIP | DF95560500 | C773 | | 4822 123 30422 | MICA 3pF 500WV CHIP | DF95330500 |
| C427 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 | C774 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| C427 | K/02 | 4822 124 80958 | ELECT 470μF 16V | OA47701640 | C775 | | 4822 124 80123 | ELECT 220μF 16V | OA22701640 |
| C428 | F | 4822 124 22242 | ELECT 470μF 25V | OA47702550 | RD11 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 |
| C428 | K/02 | 4822 124 80958 | ELECT 470μF 16V | OA47701640 | RD12 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 |
| C451 | | 4822 126 14578 | MICA 1200pF 100WV CHIP | DF95122510 | RD13 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| C452 | | 4822 126 14579 | MICA 1000pF 100WV CHIP | DF95102510 | RD14 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 |
| C453 | | 4822 126 14579 | MICA 1000pF 100WV CHIP | DF95102510 | RD15 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| C455 | | | | | | | | | |

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

| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|--------------------|---------------------|----------------|---------|-------------|--------------------|----------------------|----------------|
| RD33 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R459 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| RD34 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 | R460 | | 4822 116 83229 | 33kΩ ±1% 1/10W CHIP | NI01333110 |
| RD35 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R461 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 |
| RD36 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R462 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| RD37 | | 4822 116 83229 | 33kΩ ±1% 1/10W CHIP | NI01333110 | R463 | | | 10.0Ω ±1% 1/4W | GM114100G0 |
| RD38 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 | R464 | | | 10.0Ω ±1% 1/4W | GM114100G0 |
| RD39 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R471 | | | 1.47kΩ ±1% 1/4W | GM11414710 |
| RD40 | | | 10.0Ω ±1% 1/4W | GM114100G0 | R472 | | | 3.01kΩ ±1% 1/4W | GM11430110 |
| RD41 | | | 10.0Ω ±1% 1/4W | GM114100G0 | R474 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 |
| RD42 | | | 1.62kΩ ±1% 1/4W | GM11416210 | R475 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 |
| RD51 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 | R476 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| RD52 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 | R477 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 |
| RD53 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R478 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| RD54 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 | R479 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| RD55 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R480 | | 4822 116 83229 | 33kΩ ±1% 1/10W CHIP | NI01333110 |
| RD56 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R481 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 |
| RD57 | | 4822 116 83229 | 33kΩ ±1% 1/10W CHIP | NI01333110 | R482 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| RD58 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 | R483 | | | 10.0Ω ±1% 1/4W | GM114100G0 |
| RD59 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R484 | | | 10.0Ω ±1% 1/4W | GM114100G0 |
| RD60 | | | 10.0Ω ±1% 1/4W | GM114100G0 | | | | | |
| RD61 | | | 10.0Ω ±1% 1/4W | GM114100G0 | R601 | | 4822 111 90885 | 2.7kΩ ±1% 1/10W CHIP | NI01272110 |
| RD62 | | | 1.62kΩ ±1% 1/4W | GM11416210 | R602 | | 4822 116 83253 | 1.5kΩ ±1% 1/10W CHIP | NI01152110 |
| RD81 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 | R603 | | 4822 111 90885 | 2.7kΩ ±1% 1/10W CHIP | NI01272110 |
| RD82 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 | R604 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 |
| RD83 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R605 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 |
| RD84 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 | R606 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| RD85 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R608 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 |
| RD86 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R609 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| RD87 | | 4822 116 83229 | 33kΩ ±1% 1/10W CHIP | NI01333110 | R610 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| RD88 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 | R611 | | 4822 116 83229 | 33kΩ ±1% 1/10W CHIP | NI01333110 |
| RD89 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R612 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 |
| RD90 | | | 10.0Ω ±1% 1/4W | GM114100G0 | R613 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| RD91 | | | 10.0Ω ±1% 1/4W | GM114100G0 | R614 | | | 10.0Ω ±1% 1/4W | GM114100G0 |
| RD92 | | | 1.62kΩ ±1% 1/2W | GM11416210 | R615 | | | 10.0Ω ±1% 1/4W | GM114100G0 |
| R401 | | | 1.47kΩ ±1% 1/4W | GM11414710 | R616 | | 4822 116 83253 | 1.5kΩ ±1% 1/10W CHIP | NI01152110 |
| R402 | | | 3.01kΩ ±1% 1/4W | GM11430110 | R618 | | 4822 111 20407 | 100.0Ω ±1% 1/4W | NR01101140 |
| R404 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 | R619 | | | 10kΩ ±1% 1/4W | GM11410020 |
| R405 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 | R620 | | 4822 111 90896 | 100kΩ ±5% 1/10W CHIP | NI05104110 |
| R406 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R631 | | 4822 111 90885 | 2.7kΩ ±1% 1/10W CHIP | NI01272110 |
| R407 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 | R632 | | 4822 116 83253 | 1.5kΩ ±1% 1/10W CHIP | NI01152110 |
| R408 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R633 | | 4822 111 90885 | 2.7kΩ ±1% 1/10W CHIP | NI01272110 |
| R409 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R634 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 |
| R410 | | 4822 116 83229 | 33kΩ ±1% 1/10W CHIP | NI01333110 | R635 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 |
| R411 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 | R636 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| R412 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R638 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 |
| R413 | | | 10.0Ω ±1% 1/4W | GM114100G0 | R639 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| R414 | | | 10.0Ω ±1% 1/4W | GM114100G0 | R640 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| R421 | | | 1.47kΩ ±1% 1/4W | GM11414710 | R641 | | 4822 116 83229 | 33kΩ ±1% 1/10W CHIP | NI01333110 |
| R422 | | | 3.01kΩ ±1% 1/4W | GM11430110 | R642 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 |
| R424 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 | R643 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| R425 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 | R644 | | | 10.0Ω ±1% 1/4W | GM114100G0 |
| R426 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R645 | | | 10.0Ω ±1% 1/4W | GM114100G0 |
| R427 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 | R646 | | 4822 116 83253 | 1.5kΩ ±1% 1/10W CHIP | NI01152110 |
| R428 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R648 | | 4822 111 20407 | 100.0Ω ±1% 1/4W | NR01101140 |
| R429 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R649 | | | 10kΩ ±1% 1/4W | GM11410020 |
| R430 | | 4822 116 83229 | 33kΩ ±1% 1/10W CHIP | NI01333110 | R650 | | 4822 111 90896 | 100kΩ ±5% 1/10W CHIP | NI05104110 |
| R431 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 | R701 | | 4822 116 83255 | 3.3kΩ ±1% 1/10W CHIP | NI01332110 |
| R432 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R702 | | 4822 116 83253 | 1.5kΩ ±1% 1/10W CHIP | NI01152110 |
| R433 | | | 10.0Ω ±1% 1/4W | GM114100G0 | R703 | | 4822 116 83255 | 3.3kΩ ±1% 1/10W CHIP | NI01332110 |
| R434 | | | 10.0Ω ±1% 1/4W | GM114100G0 | R704 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 |
| R451 | | | 1.47kΩ ±1% 1/4W | GM11414710 | R705 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 |
| R452 | | | 3.01kΩ ±1% 1/4W | GM11430110 | R706 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| R454 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 | R707 | | 4822 116 83255 | 3.3kΩ ±1% 1/10W CHIP | NI01332110 |
| R455 | | 4822 116 90503 | 150Ω ±5% 1/10W CHIP | NI05151110 | R708 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 |
| R456 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 | R709 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| R457 | | 4822 116 83352 | 560Ω ±5% 1/10W CHIP | NI05561110 | R710 | | 4822 111 90893 | 100Ω ±5% 1/10W CHIP | NI05101110 |
| R458 | | 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 |

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

| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|--------------------|---------------------|----------------|---------|-------------|--------------------|----------------------------|----------------|
| QD57 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | Q727 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 |
| QD58 | | 4822 130 63929 | CHIP TRS. 2SC3324 B | HX333241B0 | Q751 | | 4822 130 42843 | F.E.T. 2SK389 GR BL | HF203892A0 |
| QD59 | | 5322 130 41844 | F.E.T. 2SK170 V | HF201701H0 | Q752 | | 4822 130 61425 | CHIP TRS. 2SC2873 Y | HX328731B0 |
| QD60 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 | Q753 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 |
| QD74 | | 4822 130 42843 | F.E.T. 2SK389 GR BL | HF203892A0 | Q754 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 |
| QD75 | | 4822 130 61425 | CHIP TRS. 2SC2873 Y | HX328731B0 | Q755 | | 4822 130 63929 | CHIP TRS. 2SC3324 B | HX333241B0 |
| QD76 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | Q756 | | 5322 130 41844 | F.E.T. 2SK170 V | HF201701H0 |
| QD77 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | Q757 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 |
| QD78 | | 4822 130 63929 | CHIP TRS. 2SC3324 B | HX333241B0 | Q771 | | 4822 130 42843 | F.E.T. 2SK389 GR BL | HF203892A0 |
| QD79 | | 5322 130 41844 | F.E.T. 2SK170 V | HF201701H0 | Q772 | | 4822 130 61425 | CHIP TRS. 2SC2873 Y | HX328731B0 |
| QD80 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 | Q773 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 |
| Q401 | | 4822 130 42843 | F.E.T. 2SK389 GR BL | HF203892A0 | Q774 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 |
| Q402 | | 4822 130 61425 | CHIP TRS. 2SC2873 Y | HX328731B0 | Q775 | | 4822 130 63929 | CHIP TRS. 2SC3324 B | HX333241B0 |
| Q403 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | Q776 | | 5322 130 41844 | F.E.T. 2SK170 V | HF201701H0 |
| Q404 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | Q777 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 |
| Q405 | | 4822 130 63929 | CHIP TRS. 2SC3324 B | HX333241B0 | | | | PA16-MISCELLANEOUS | |
| Q406 | | 5322 130 41844 | F.E.T. 2SK170 V | HF201701H0 | J608 | | 4822 290 81602 | TERMINAL RCA 1P GLD L | YT02010740 |
| Q407 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 | J609 | | 4822 290 81602 | TERMINAL RCA 1P GLD R | YT02010740 |
| Q421 | | 4822 130 42843 | F.E.T. 2SK389 GR BL | HF203892A0 | L601 | | 4822 280 10353 | RELAY DC9V NA-9-WK | LY20090090 |
| Q422 | | 4822 130 61425 | CHIP TRS. 2SC2873 Y | HX328731B0 | L603 | | 4822 158 60605 | FERRITE CORE BEADS | FC90050060 |
| Q423 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | L633 | | 4822 158 60605 | FERRITE CORE BEADS | FC90050060 |
| Q424 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | L701 | | 4822 280 10353 | RELAY DC9V NA-9-WK | LY20090090 |
| Q425 | | 4822 130 63929 | CHIP TRS. 2SC3324 B | HX333241B0 | L702 | | 4822 158 60654 | CHIP INDUCTOR BLM31A02 | FC90030070 |
| Q426 | | 5322 130 41844 | F.E.T. 2SK170 V | HF201701H0 | L703 | | 4822 158 60654 | CHIP INDUCTOR BLM31A02 | FC90030070 |
| Q427 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 | L731 | | 4822 280 10353 | RELAY DC9V NA-9-WK | LY20090090 |
| Q451 | | 4822 130 42843 | F.E.T. 2SK389 GR BL | HF203892A0 | L732 | | 4822 158 60654 | CHIP INDUCTOR BLM31A02 | FC90030070 |
| Q452 | | 4822 130 61425 | CHIP TRS. 2SC2873 Y | HX328731B0 | L733 | | 4822 158 60654 | CHIP INDUCTOR BLM31A02 | FC90030070 |
| Q453 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | | | | PH16-POWER SW | |
| Q454 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | | | | CIRCUIT BOARD | |
| Q455 | | 4822 130 63929 | CHIP TRS. 2SC3324 B | HX333241B0 | ▲ GH01 | | 4822 121 43732 | FILM CAP. 0.01μF ±20% 250V | DF77103500 |
| Q456 | | 5322 130 41844 | F.E.T. 2SK170 V | HF201701H0 | ▲ SH01 | | 4822 276 13364 | PUSH SW. SDDL1 TV-3 | SP01011990 |
| Q457 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 | ▲ SH02 | K | 4822 277 21825 | SLIDE SW. SDKGA4 | SS02021510 |
| Q471 | | 4822 130 42843 | F.E.T. 2SK389 GR BL | HF203892A0 | | | | PP16-MAIN/HDAM/MUTE | |
| Q472 | | 4822 130 61425 | CHIP TRS. 2SC2873 Y | HX328731B0 | | | | CIRCUIT BOARD | |
| Q473 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | | | | PP16-CAPACITORS | |
| Q474 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | CN02 | | 4822 124 41543 | ELECT 1μF 50V | OA10505020 |
| Q475 | | 4822 130 63929 | CHIP TRS. 2SC3324 B | HX333241B0 | CN03 | | 4822 124 90357 | ELECT 2.2μF 50V | OA22505020 |
| Q476 | | 5322 130 41844 | F.E.T. 2SK170 V | HF201701H0 | CN06 | | 4822 124 22277 | ELECT 470μF 16V ±20% | OA47701620 |
| Q477 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 | CN13 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| Q601 | | 4822 130 42843 | F.E.T. 2SK389 GR BL | HF203892A0 | CN21 | | 4822 126 11567 | CER. 0.022μF ±10% CHIP | DK96223200 |
| Q603 | | 4822 130 61425 | CHIP TRS. 2SC2873 Y | HX328731B0 | CN22 | | 4822 124 22273 | ELECT 0.47μF ±20% 50V | OA47405020 |
| Q604 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | CN23 | | 4822 124 22274 | ELECT 4.7 μF ±20% 50V | OA47505020 |
| Q605 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | CT01 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| Q606 | | 4822 130 63929 | CHIP TRS. 2SC3324 B | HX333241B0 | CT02 | | 4822 126 11685 | CER. 4700pF ±10% 50V CHIP | DK96472300 |
| Q607 | | 5322 130 41844 | F.E.T. 2SK170 V | HF201701H0 | CT03 | | 4822 126 12339 | CER. 2200pF ±10% CHIP | DK96222300 |
| Q608 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 | CT04 | | 4822 126 13837 | CER. 0.1 μF ±10% 10V CHIP | DK96104200 |
| Q631 | | 4822 130 42843 | F.E.T. 2SK389 GR BL | HF203892A0 | CT05 | | 4822 126 13837 | CER. 0.1 μF ±10% 10V CHIP | DK96104200 |
| Q633 | | 4822 130 61425 | CHIP TRS. 2SC2873 Y | HX328731B0 | CT06 | | 4822 126 11685 | CER. 4700pF ±10% 50V CHIP | DK96472300 |
| Q634 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | CT07 | | 4822 126 12339 | CER. 2200pF ±10% CHIP | DK96222300 |
| Q635 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | CT08 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| Q636 | | 4822 130 63929 | CHIP TRS. 2SC3324 B | HX333241B0 | CT09 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| Q637 | | 5322 130 41844 | F.E.T. 2SK170 V | HF201701H0 | CT10 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| Q638 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 | CY60 | | 4822 122 40588 | CER. 0.022μF ±10% 50V | DA17223110 |
| Q701 | | 4822 130 42843 | F.E.T. 2SK389 GR BL | HF203892A0 | CY61 | | 4822 122 40588 | CER. 0.022μF ±10% 50V | DA17223110 |
| Q702 | | 4822 130 61425 | CHIP TRS. 2SC2873 Y | HX328731B0 | CY62 | | 4822 124 90355 | ELECT 100 μF ±20% 50V | OA10705020 |
| Q703 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | CY63 | | 4822 124 41536 | ELECT 100 μF ±20% 35V | OA10703520 |
| Q704 | | 4822 130 63928 | CHIP TRS. 2SA1312 B | HX113121B0 | C301 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| Q705 | | 4822 130 63929 | CHIP TR. 2SC3324 B | HX333241B0 | C302 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| Q706 | | 5322 130 41844 | F.E.T. 2SK170 V | HF201701H0 | C303 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| Q707 | | 4822 130 62649 | F.E.T. 2SJ74 V | HF100741H0 | C304 | | 4822 124 90363 | ELECT 220 μF ±20% 10V | OA22701020 |
| Q721 | | 4822 130 42843 | F.E.T. 2SK389 GR BL | HF203892A0 | C305 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| 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) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|--------------------|-------------------------------------|----------------|---------|-------------|--------------------|------------------------------|---------------------------|
| C309 | | 4822 124 41539 | ELECT 47 μ F \pm 20% 16V | OA47601620 | | | | PP16-RESISTORS CHIP | |
| C310 | | 5322 126 11578 | CER. 1000pF \pm 10% 50V CHIP | DK96102300 | C321 | | 4822 116 82487 | | 0 Ω \pm 5% 1/16W |
| C311 | | 4822 126 11759 | CER. 100pF \pm 5% 50V CHIP | DD95101300 | C355 | | 4822 116 82487 | 0 Ω \pm 5% 1/16W | NN05000610 |
| C312 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | | | | | |
| C314 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RN02 | | 4822 117 11977 | 3.9M Ω \pm 5% 1/16W | NN05395610 |
| C315 | | 4822 126 13309 | CER. 0.033 μ F \pm 10% CHIP | DK96333200 | RN03 | | 4822 116 83208 | 18k Ω \pm 5% 1/16W | NN05123610 |
| C316 | | 4822 124 81238 | TANTL. 0.33 μ F 35V CHIP | EY33403510 | RN04 | | 4822 051 30473 | 47k Ω \pm 5% 1/16W | NN05473610 |
| C317 | | 4822 124 90357 | ELECT 2.2 μ F \pm 20% 50V | OA22505020 | RN05 | | 4822 051 30103 | 10k Ω \pm 5% 1/16W | NN05103610 |
| C318 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RN08 | | 4822 051 30472 | 4.7k Ω \pm 5% 1/16W | NN05472610 |
| C319 | | 4822 126 13837 | CER. 0.1 μ F \pm 10% 10V CHIP | DK96104200 | RN10 | | 4822 051 30472 | 4.7k Ω \pm 5% 1/16W | NN05472610 |
| C320 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RN13 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |
| C327 | | 4822 124 90363 | ELECT 220 μ F \pm 20% 10V | OA22701020 | RN14 | | 4822 051 30103 | 10k Ω \pm 5% 1/16W | NN05103610 |
| C328 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RN15 | | 4822 051 30472 | 4.7k Ω \pm 5% 1/16W | NN05472610 |
| C329 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RN16 | | 4822 051 30472 | 4.7k Ω \pm 5% 1/16W | NN05472610 |
| C330 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RN21 | | 4822 051 30103 | 10k Ω \pm 5% 1/16W | NN05103610 |
| C331 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RN22 | | 4822 051 30104 | 100k Ω \pm 5% 1/16W | NN05104610 |
| C332 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RN23 | | 4822 051 30332 | 3.3k Ω \pm 5% 1/16W | NN05332610 |
| C333 | | 4822 126 11759 | CER. 100pF \pm 5% 50V CHIP | DD95101300 | RN24 | | 4822 051 30473 | 47k Ω \pm 5% 1/16W | NN05473610 |
| C334 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RN25 | | 4822 051 30333 | 33k Ω \pm 5% 1/16W | NN05333610 |
| C356 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RN26 | | 4822 051 30104 | 100k Ω \pm 5% 1/16W | NN05104610 |
| C357 | | 4822 126 11663 | CER. 12pF \pm 5% 50V CHIP | DD95120300 | RN27 | | 4822 051 30332 | 3.3k Ω \pm 5% 1/16W | NN05332610 |
| C358 | | 4822 126 11663 | CER. 12pF \pm 5% 50V CHIP | DD95120300 | | | | | |
| C359 | | 5322 126 11578 | CER. 1000pF \pm 10% 50V CHIP | DK96102300 | RT01 | | 4822 051 30101 | 100 Ω \pm 5% 1/16W | NN05101610 |
| C360 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RT02 | | 4822 051 30339 | 33 Ω \pm 5% 1/16W | NN05330610 |
| C361 | | 4822 126 11663 | CER. 12pF \pm 5% 50V CHIP | DD95120300 | RT03 | | 4822 051 30759 | 75 Ω \pm 5% 1/16W | NN05750610 |
| C362 | | 4822 126 11663 | CER. 12pF \pm 5% 50V CHIP | DD95120300 | RT04 | | 4822 051 30339 | 33 Ω \pm 5% 1/16W | NN05330610 |
| C363 | | 5322 126 11578 | CER. 1000pF \pm 10% 50V CHIP | DK96102300 | RT05 | | 4822 051 30759 | 75 Ω \pm 5% 1/16W | NN05750610 |
| C364 | | | | | RY41 | | 4822 051 30103 | 10k Ω \pm 5% 1/16W | NN05103610 |
| { | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RY42 | | 4822 051 30103 | 10k Ω \pm 5% 1/16W | NN05103610 |
| C372 | | | | | RY51 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |
| C501 | | | | | RY52 | | 4822 051 30472 | 4.7k Ω \pm 5% 1/16W | NN05472610 |
| { | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RY53 | | 4822 051 30473 | 47k Ω \pm 5% 1/16W | NN05473610 |
| C504 | | | | | RY54 | | 4822 051 30473 | 47k Ω \pm 5% 1/16W | NN05473610 |
| C505 | | 4822 124 90363 | ELECT 220 μ F \pm 20% 10V | OA22701020 | RY55 | | 4822 051 30473 | 47k Ω \pm 5% 1/16W | NN05473610 |
| C506 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RY56 | | 4822 051 30103 | 10k Ω \pm 5% 1/16W | NN05103610 |
| C507 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | RY61 | | 4822 116 83255 | 3.3k Ω \pm 1% 1/10W | NI01332110 |
| C509 | | 5322 126 11578 | CER. 1000pF \pm 10% 50V CHIP | DK96102300 | | | | | |
| C510 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | R301 | | 4822 051 30759 | 75 Ω \pm 5% 1/16W | NN05750610 |
| C511 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | R302 | | 4822 051 30759 | 75 Ω \pm 5% 1/16W | NN05750610 |
| C512 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | R303 | | 4822 051 30102 | 1k Ω \pm 5% 1/16W | NN05102610 |
| C514 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | R305 | | 4822 051 30473 | 47k Ω \pm 5% 1/16W | NN05473610 |
| C515 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | R307 | | 4822 051 30222 | 2.2k Ω \pm 5% 1/16W | NN05222610 |
| C516 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | R308 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |
| C518 | | 5322 126 11578 | CER. 1000pF \pm 10% 50V CHIP | DK96102300 | R309 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |
| C519 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | R310 | | 4822 051 30103 | 10k Ω \pm 5% 1/16W | NN05103610 |
| C520 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | R311 | | 4822 051 30471 | 470 Ω \pm 5% 1/16W | NN05471610 |
| C521 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | R314 | | 4822 051 30101 | 100 Ω \pm 5% 1/16W | NN05101610 |
| C528 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | R315 | | 4822 051 30472 | 4.7k Ω \pm 5% 1/16W | NN05472610 |
| C529 | | 4822 126 11687 | CER. 0.1 μ F +80%-20% CHIP | DK98104200 | R316 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |
| | | | | | R317 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |
| C801 | | 4822 124 80582 | ELECT 4700 μ F \pm 20% 16V | OA47801620 | R318 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |
| C802 | | 4822 124 22694 | ELECT 1000 μ F 6.3V | OA10800620 | R319 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |
| C803 | | 4822 124 90388 | ELECT 3300 μ F \pm 20% 16V | OA33801620 | R320 | | 4822 051 30479 | 47 Ω \pm 5% 1/16W | NN05470610 |
| C804 | | 4822 124 90367 | ELECT 2200 μ F 25V | OA22802520 | | | | | |
| C812 | | 4822 124 90367 | ELECT 2200 μ F \pm 20% 25V | OA22802520 | R321 | | 4822 051 30479 | 47 Ω \pm 5% 1/16W | NN05470610 |
| C813 | F | 4822 124 22238 | ELECT 100 μ F \pm 20% 25V | OA10702550 | R322 | | 4822 051 30479 | 47 Ω \pm 5% 1/16W | NN05470610 |
| C813 | K /02 | 4822 124 80119 | ELECT 100 μ F \pm 20% 25V | OA10702540 | R323 | | 4822 051 30479 | 47 Ω \pm 5% 1/16W | NN05470610 |
| C814 | F | 4822 124 22238 | ELECT 100 μ F \pm 20% 25V | OA10702550 | R324 | | 4822 051 30101 | 100 Ω \pm 5% 1/16W | NN05101610 |
| C814 | K /02 | 4822 124 80119 | ELECT 100 μ F \pm 20% 25V | OA10702540 | R325 | | 4822 051 30101 | 100 Ω \pm 5% 1/16W | NN05101610 |
| C822 | | 4822 124 90388 | ELECT 3300 μ F \pm 20% 16V | OA33801620 | R326 | | 4822 051 30101 | 100 Ω \pm 5% 1/16W | NN05101610 |
| C823 | | 4822 124 90364 | ELECT 220 μ F \pm 20% 16V | OA22701620 | R327 | | 4822 051 30101 | 100 Ω \pm 5% 1/16W | NN05101610 |
| C851 | | 4822 124 12405 | ELECT 4700 μ F \pm 20% 35V | OB47803520 | R330 | | 4822 051 30103 | 10k Ω \pm 5% 1/16W | NN05103610 |
| C852 | | 4822 124 12405 | ELECT 4700 μ F \pm 20% 35V | OB47803520 | R331 | | 4822 051 30334 | 330k Ω \pm 5% 1/16W | NN05334610 |
| C855 | F | 4822 124 22238 | ELECT 100 μ F \pm 20% 25V | OA10702550 | R332 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |
| C855 | K /02 | 4822 124 80119 | ELECT 100 μ F \pm 20% 25V | OA10702540 | R333 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |
| C856 | F | 4822 124 22238 | ELECT 100 μ F \pm 20% 25V | OA10702550 | R334 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |
| C856 | K /02 | 4822 124 80119 | ELECT 100 μ F \pm 20% 25V | OA10702540 | R335 | | 4822 051 30471 | 470 Ω \pm 5% 1/16W | NN05471610 |
| C857 | | 4822 124 22242 | ELECT 470 μ F \pm 20% 25V | OA47702550 | R336 | | 4822 051 30471 | 470 Ω \pm 5% 1/16W | NN05471610 |
| C858 | | 4822 124 22242 | ELECT 470 μ F \pm 20% 25V | OA47702550 | R338 | | 4822 051 30223 | 22k Ω \pm 5% 1/16W | NN05223610 |

| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|--------------------|---------------------------------------|----------------|---------|-------------|--------------------|----------------------------------|----------------|
| R339 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | D301 | | 4822 130 83715 | CHIP DIODE DAN202U | HZ21005000 |
| R340 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | ▲ D801 | | | | |
| R341 | | 4822 051 30334 | 330kΩ ±5% 1/16W | NN05334610 | ∫ | | 4822 130 80839 | DIODE S5688G 1A VRM=400V | HD20029050 |
| R342 | | 4822 117 12968 | 820Ω ±5% 1/16W | NN05821610 | ▲ D808 | | | | |
| R343 | | 4822 051 30101 | 100Ω ±5% 1/16W | NN05101610 | ▲ D811 | | | | |
| R344 | | 4822 051 30334 | 330kΩ ±5% 1/16W | NN05334610 | ∫ | | 4822 130 80839 | DIODE S5688G 1A VRM=400V | HD20029050 |
| R345 | | 4822 117 12968 | 820Ω ±5% 1/16W | NN05821610 | ▲ D814 | | | | |
| R346 | | 4822 051 30101 | 100Ω ±5% 1/16W | NN05101610 | D815 | | 4822 130 80318 | ZENER DIODE RD6.8JB2 MTZJ6.8C | HD30681000 |
| R348 | | 4822 051 30101 | 100Ω ±5% 1/16W | NN05101610 | | | | | |
| R349 | | 4822 051 30101 | 100Ω ±5% 1/16W | NN05101610 | ▲ D821 | | | | |
| R350 | | 4822 051 30479 | 47Ω ±5% 1/16W | NN05470610 | ∫ | | 4822 130 80839 | DIODE S5688G 1A VRM=400V | HD20029050 |
| R351 | | 4822 051 30479 | 47Ω ±5% 1/16W | NN05470610 | ▲ D824 | | | | |
| | | | | | ▲ D851 | | | | |
| R501 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | ∫ | | 4822 130 82422 | DIODE EK16LF VRM60V | HD20041080 |
| R502 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | ▲ D854 | | | | |
| R503 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | D856 | | 4822 130 33948 | ZENER DIODE RD5.6JB2 MTZJ5.6B | HD30561000 |
| R504 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | | | | | |
| R505 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | D857 | | 4822 130 33948 | ZENER DIODE RD5.6JB2 MTZJ5.6B | HD30561000 |
| 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 | QN01 | | 4822 130 61355 | CHIP TRS. 2SC2712 O Y | HX327122A0 |
| R509 | | 4822 051 30104 | 100kΩ ±5% 1/16W | NN05104610 | QN02 | | 4822 130 61355 | CHIP TRS. 2SC2712 O Y | HX327122A0 |
| R510 | | 4822 051 30104 | 100kΩ ±5% 1/16W | NN05104610 | QN03 | | 4822 130 11507 | DIG.TRS. UMH4N | BA20070210 |
| R511 | | 4822 051 30104 | 100kΩ ±5% 1/16W | NN05104610 | QN04 | | 4822 130 61355 | CHIP TRS. 2SC2712 O Y | HX327122A0 |
| R512 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | QN05 | | 4822 130 61311 | CHIP TRS. 2SA1162 O Y | HX111622A0 |
| R513 | | 4822 051 30103 | 10kΩ ±5% 1/16W | NN05103610 | QN13 | | 4822 130 61355 | CHIP TRS. 2SC2712 O Y | HX327122A0 |
| R514 | | 4822 051 30104 | 100kΩ ±5% 1/16W | NN05104610 | QN21 | | 4822 209 83312 | IC TA7317P | HC10042050 |
| R515 | | 4822 051 30104 | 100kΩ ±5% 1/16W | NN05104610 | | | | | |
| R516 | | 4822 051 30104 | 100kΩ ±5% 1/16W | NN05104610 | QT01 | | 4822 209 31423 | IC TC7W04F | HC700405W0 |
| R517 | | 4822 051 30104 | 100kΩ ±5% 1/16W | NN05104610 | QY11 | | 4822 111 92195 | DIG.TRS. HN1A01F Y GR | BA10011050 |
| R518 | | 4822 051 30104 | 100kΩ ±5% 1/16W | NN05104610 | QY12 | | 4822 130 60839 | TRS. 2SC2458 Y GR | HT324582B0 |
| R520 | | 4822 051 30103 | 10kΩ ±5% 1/16W | NN05103610 | QY41 | | 4822 130 63844 | DIG.TRS. HN1C03FPN×2 | BA20016050 |
| R527 | | 4822 116 82487 | 0Ω ±5% 1/16W | NN05000610 | QY51 | | 4822 130 61355 | CHIP TRS. 2SC2712 O Y | HX327122A0 |
| R529 | | 4822 051 30103 | 10kΩ ±5% 1/16W | NN05103610 | ▲ QY61 | | 4822 130 42734 | CHIP TRS. 2SB798 DL DK | HX207982A0 |
| R530 | | 4822 051 30471 | 470Ω ±5% 1/16W | NN05471610 | | | | | |
| R531 | | 4822 051 30471 | 470Ω ±5% 1/16W | NN05471610 | Q301 | | 4822 209 32984 | IC TC7SHU04F | HC10427050 |
| R532 | | 4822 051 30471 | 470Ω ±5% 1/16W | NN05471610 | Q302 | | 4822 209 90597 | IC TCW125FU | HC10409050 |
| R861 | /02 | | 390Ω ±5% 2W NON CHIP | GA05391020 | Q303 | | 4822 130 61355 | CHIP TRS. 2SC2712 O Y | HX327122A0 |
| R862 | /02 | | 390Ω ±5% 2W NON CHIP | GA05391020 | Q304 | | 4822 209 33578 | IC TDA1315 | HC10117490 |
| | | | | | Q305 | | 4822 130 61355 | CHIP TRS. 2SC2712 O Y | HX327122A0 |
| | | | | | Q306 | | 4822 130 61355 | CHIP TRS. 2SC2712 O Y | HX327122A0 |
| | | | | | Q308 | | 4822 130 61311 | CHIP TRS. 2SA1162 O 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 |
| ▲ 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 | | | | | |

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

| POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | PART NO. (FOR PCS) | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|--------------------|-----------------------|----------------|---------|-------------|--------------------|---|----------------|
| RF14 | | | | | R166 | | 4822 051 30332 | 3.3kΩ ±5% 1/16W | NN05332610 |
| RF17 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | | | | PV16-SEMICONDUCTORS | |
| RF18 | | | | | QF01 | | 4822 209 17438 | ONE TIME PROM μPD78P078 1-TIME μ-COM | HS355KN000 |
| RF21 | | 4822 051 30472 | 4.7kΩ ±5% 1/16W | NN05472610 | QF02 | | 4822 209 15921 | IC ET S-806D-Z | HC10077530 |
| RF22 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | QF03 | | 4822 209 17428 | IC 74HC165 FLAT | HC716500R0 |
| RF23 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | QF04 | | 4822 209 17428 | IC 74HC165 FLAT | HC716500R0 |
| RF25 | | | | | QF05 | | 4822 209 17428 | IC 74HC165 FLAT | HC716500R0 |
| RF35 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | QF06 | | 4822 209 17432 | IC 74HC595 | HC759500R0 |
| RM01 | | 4822 051 30472 | 4.7kΩ ±5% 1/16W | NN05472610 | QF07 | | 4822 209 62764 | IC 74HC164F | HC716400Z0 |
| RM02 | | 4822 051 30472 | 4.7kΩ ±5% 1/16W | NN05472610 | QF08 | | 4822 209 32984 | IC TC7SHU04F | HC10427050 |
| RM03 | | 4822 051 30222 | 2.2kΩ ±5% 1/16W | NN05222610 | QF09 | | 4822 209 90597 | IC TCW125FU | HC10409050 |
| RM04 | | 4822 051 30222 | 2.2kΩ ±5% 1/16W | NN05222610 | QM01 | | 4822 130 43954 | CHIP TRS. 2SD999 DL DK | HX409992A0 |
| RM05 | | 4822 051 30472 | 4.7kΩ ±5% 1/16W | NN05472610 | QM02 | | 4822 130 43954 | CHIP TRS. 2SD999 DL DK | HX409992A0 |
| RM06 | | 4822 051 30472 | 4.7kΩ ±5% 1/16W | NN05472610 | QM03 | | 4822 130 42734 | CHIP TRS. 2SB798 DL DK | HX207982A0 |
| RM07 | | 4822 051 30222 | 2.2kΩ ±5% 1/16W | NN05222610 | QM04 | | 4822 130 42734 | CHIP TRS. 2SB798 DL DK | HX207982A0 |
| RM08 | | 4822 051 30222 | 2.2kΩ ±5% 1/16W | NN05222610 | QM05 | | 4822 130 43954 | CHIP TRS. 2SD999 DL DK | HX409992A0 |
| R100 | | 4822 051 30103 | 10kΩ ±5% 1/16W | NN05103610 | QM06 | | 4822 130 43954 | CHIP TRS. 2SD999 DL DK | HX409992A0 |
| R101 | | 4822 051 30103 | 10kΩ ±5% 1/16W | NN05103610 | QM07 | | 4822 130 42734 | CHIP TRS. 2SB798 DL DK | HX207982A0 |
| R102 | | 4822 051 30274 | 270kΩ ±5% 1/16W | NN05274610 | QM08 | | 4822 130 42734 | CHIP TRS. 2SB798 DL DK | HX207982A0 |
| R103 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | QM09 | | | | |
| R104 | | 4822 116 82487 | 0Ω ±5% 1/16W | NN05000610 | QM12 | | 4822 130 61355 | CHIP TRS. 2SC2712 0 Y | HX327122A0 |
| R105 | | 4822 051 30104 | 100kΩ ±5% 1/16W | NN05104610 | | | | | |
| R106 | | 4822 116 83208 | 12kΩ ±5% 1/16W | NN05123610 | Q102 | | 4822 209 91174 | IC SAA7372GP | HC10132490 |
| R107 | | 4822 116 83208 | 12kΩ ±5% 1/16W | NN05123610 | Q103 | | 4822 209 16372 | IC TDA7073AT | HC10165490 |
| R109 | | 4822 051 30681 | 680Ω ±5% 1/16W | NN05681610 | Q104 | | 4822 209 16372 | IC TDA7073AT | HC10165490 |
| R110 | | 4822 116 83208 | 12kΩ ±5% 1/16W | NN05123610 | Q107 | | 4822 130 61355 | CHIP TRS. 2SC2712 0 Y | HX327122A0 |
| R111 | | 4822 051 30103 | 10kΩ ±5% 1/16W | NN05103610 | Q108 | | 4822 130 61311 | CHIP TRS. 2SA1162 0 Y | HX111622A0 |
| R113 | | 4822 116 83207 | 1.2kΩ ±5% 1/16W | NN05122610 | Q109 | | 4822 130 61355 | CHIP TRS. 2SC2712 0 Y | HX327122A0 |
| R116 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | Q110 | | 4822 130 61311 | CHIP TRS. 2SA1162 0 Y | HX111622A0 |
| R117 | | 4822 117 12968 | 820Ω ±5% 1/16W | NN05821610 | Q111 | | 4822 130 61355 | CHIP TRS. 2SC2712 0 Y | HX327122A0 |
| R119 | | 4822 051 30333 | 33kΩ ±5% 1/16W | NN05333610 | Q112 | | 4822 130 61355 | CHIP TRS. 2SC2712 0 Y | HX327122A0 |
| R120 | | 4822 051 30333 | 33kΩ ±5% 1/16W | NN05333610 | | | | PV16-MISCELLANEOUS | |
| R121 | | 4822 116 83211 | 1.8kΩ ±5% 1/16W | NN05182610 | L103 | | | | |
| R123 | | 4822 116 83213 | 270Ω ±5% 1/16W | NN05271610 | L106 | | 4822 158 60654 | CHIP INDUCTOR BLM31A02 | FC90030070 |
| R124 | | 4822 116 83213 | 270Ω ±5% 1/16W | NN05271610 | | | | | |
| R125 | | | | | XF01 | | 4822 242 10992 | CERAMIC RESONATOR CSTCC5.00MG-TC 5MHz | FQ05004040 |
| R128 | | 4822 051 30103 | 10kΩ ±5% 1/16W | NN05103610 | | | | PY16-FRONT FL/IR/KEY CIRCUIT BOARD | |
| R129 | | 4822 051 30101 | 100Ω ±5% 1/16W | NN05101610 | | | | PY16-CAPACITORS | |
| R133 | | 4822 051 30392 | 3.9kΩ ±5% 1/16W | NN05392610 | CY16 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| R134 | | 4822 051 30472 | 4.7kΩ ±5% 1/16W | NN05472610 | CY17 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| R135 | | 4822 051 30471 | 470Ω ±5% 1/16W | NN05471610 | CY20 | | 4822 124 21901 | ELECT 47μF 6.3V | EJ47600610 |
| R136 | | 4822 051 30471 | 470Ω ±5% 1/16W | NN05471610 | CY51 | | 4822 126 11687 | CER. 0.1μF +80%-20% CHIP | DK98104200 |
| R137 | | 4822 051 30272 | 2.7kΩ ±5% 1/16W | NN05272610 | | | | PY16-RESISTORS CHIP | |
| R138 | | 4822 051 30272 | 2.7kΩ ±5% 1/16W | NN05272610 | RY01 | | 4822 051 30472 | 4.7kΩ ±5% 1/16W | NN05472610 |
| R139 | | 4822 051 30103 | 10kΩ ±5% 1/16W | NN05103610 | RY03 | | 4822 051 30222 | 2.2kΩ ±5% 1/16W | NN05222610 |
| R140 | | 4822 116 83339 | 56Ω ±5% 1/16W | NN05560610 | RY04 | | 4822 051 30222 | 2.2kΩ ±5% 1/16W | NN05222610 |
| R141 | | 4822 051 30479 | 47Ω ±5% 1/16W | NN05470610 | RY05 | | 4822 051 30682 | 6.8kΩ ±5% 1/16W | NN05682610 |
| R142 | | 4822 051 30391 | 390Ω ±5% 1/16W | NN05391610 | RY06 | | 4822 051 30472 | 4.7kΩ ±5% 1/16W | NN05472610 |
| ▲ R143 | | 4822 116 60309 | 2.2Ω ±5% 1/4W FUSIBLE | NH05022140 | RY07 | | 4822 051 30222 | 2.2kΩ ±5% 1/16W | NN05222610 |
| R144 | | 4822 051 30102 | 1kΩ ±5% 1/16W | NN05102610 | RY08 | | 4822 051 30222 | 2.2kΩ ±5% 1/16W | NN05222610 |
| R145 | | 4822 051 30222 | 2.2kΩ ±5% 1/16W | NN05222610 | RY09 | | 4822 051 30682 | 6.8kΩ ±5% 1/16W | NN05682610 |
| R146 | | 4822 051 30103 | 10kΩ ±5% 1/16W | NN05103610 | RY10 | | 4822 051 30472 | 4.7kΩ ±5% 1/16W | NN05472610 |
| R147 | | 4822 051 30472 | 4.7kΩ ±5% 1/16W | NN05472610 | | | | PY16-MISCELLANEOUS | |
| ▲ R148 | | 4822 116 60309 | 2.2Ω ±5% 1/4W FUSIBLE | NH05022140 | SY01 | | | | |
| R151 | | | | | SY06 | | 4822 276 13537 | PUSH SW. SKHVBF 260GF | SP01012030 |
| R157 | | 4822 051 30223 | 22kΩ ±5% 1/16W | NN05223610 | | | | | |
| R158 | | 4822 051 30104 | 100kΩ ±5% 1/16W | NN05104610 | | | | | |
| R160 | | 4822 051 30104 | 100kΩ ±5% 1/16W | NN05104610 | | | | | |
| R161 | | | | | | | | | |
| R164 | | 4822 051 30101 | 100Ω ±5% 1/16W | NN05101610 | | | | | |
| R165 | | 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) |
|---------|-------------|--------------------|---|----------------|
| | | | 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 0 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 RED NSSH | SP01012030 |
| SY09 | | | | |
| VY01 | | 4822 130 90441 | DISPLAY UNIT FLT FUTABA 6-BT-97ZK | HQ30801410 |
| ZY01 | | 4822 209 16735 | PHOTO UNIT PNA4655M00HB IR SENSOR | HW10006020 |