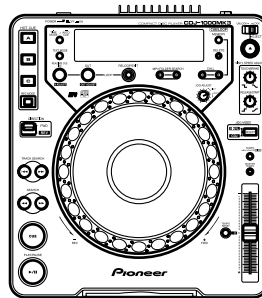


Service Manual



CDJ-1000MK3

ORDER NO.
RRV3353

COMPACT DISC PLAYER

CDJ-1000MK3

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Model | Type | Power Requirement | Remarks |
|-------------|-------|-------------------|---------|
| CDJ-1000MK3 | KUCXJ | AC 120V | |
| CDJ-1000MK3 | WYXJ5 | AC 220-240V | |
| CDJ-1000MK3 | TLFXJ | AC 110-240V | |



For details, refer to "Important Check Points for good servicing".

SAFETY INFORMATION



This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

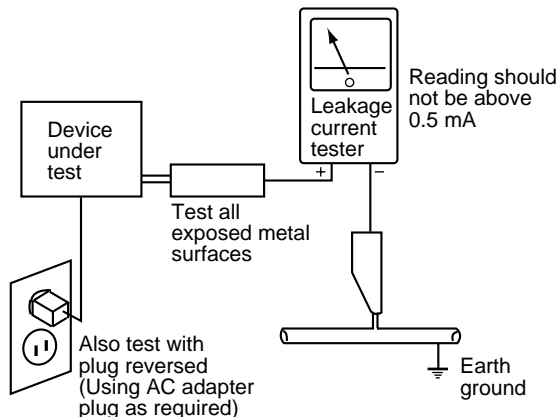
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

IMPORTANT

THIS PIONEER APPARATUS CONTAINS LASER OF CLASS 1. SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUCTED PERSON.

LASER DIODE CHARACTERISTICS

MAXIMUM OUTPUT POWER : 5 mW
WAVELENGTH : 780 – 785 nm

WARNING !

THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN **CLASS 1** BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR **CLASS 1**. A SPECIALLY INSTRUCTED PERSON SHOULD DO SERVICING OPERATION OF THE APPARATUS.

LABEL CHECK

for WYXJ5 and KUCXJ types

| | | | |
|------------------|--|-------------------|--|
| CAUTION | CLASS 3B INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. | VORSICHT | BEI GEÖFFNETER ABDECKUNG IST UNSICHTBARE LASERSTRAHLUNG DER KLASSE 3B IM GERÄTEINNEREN VORHANDEN. NICHT BEIM LASERSTRAHLAUSSETZEN. |
| ATTENTION | RADIATIONS LASER INVISIBLES DE CLASSE 3B QUAND OUVERT. ÉVITEZ TOUTE EXPOSITION AU FASCEAU. | PRECAUCION | CUANDO SE ABRE, HAY RADIACION LASER DE CLASE 3B INVISIBLE. EVITE LA EXPOSICION A LOS RAYOS LASER. |
| ADVARSEL | KLASSE 3B URSYNLIG LASERSTRÅLING VED ÅBNING. | VARD! | VIATTRESSA ILEI ALTHVA INKYMTTÖMALLE LUKNAN 3B LASERSÄTEKILLE. ÄLÄ KATSO SÄTESEEN. |
| VARNING | KLASS 3B ÖSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVÄJ ATT UTSÄTTA DIG FÖR STRÅLEN. | | DRW2308-A |

(DRW2308)

for TLFXJ type

CAUTION : CLASS 3B INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO THE BEAM.

注意：打開時會有CLASS 3B不可見鐳射輻射，請勿受鐳射束輻射。

DRW2248

(DRW2248)

CLASS 1 LASER PRODUCT
1类激光产品

(Printed on the bottom plate)

Pioneer
COMPACT DISC PLAYER
CDJ-1000MK3

Additional Laser Caution

- Laser Interlock Mechanism**
The position of the switch (S2401) for detecting loading completion is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch is not in LPS1 terminal side (when the mechanism is not clamped and LPS1 signal is high level.)
Thus, the interlock will no longer function if the switch is deliberately set to LPS1 terminal side. (if LPS1 signal is low level).
In the test mode* the interlock mechanism will not function. Laser diode oscillation will continue, if pin 5 of AN22022A (IC601) on the MAIN Assy is connected to GND, or else the terminals of Q603 are shorted to each other (fault condition).
- When the cover is opened, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

CDJ-1000MK3

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[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification (addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

1. General

| | |
|-----------------------------|--|
| System | Compact disc digital audio system |
| Power requirements | AC 120 V, 60 Hz (KUCXJ type) AC 220 V to 240V, 50/60 Hz (WYXJ5 type) AC 110 V to 240V, 50/60 Hz (TLFXJ type) |
| Power consumption | 28 W (KUCXJ type) 27 W (WYXJ5 type) 27 W (TLFXJ type) |
| Operating temperature | +5 °C to +35 °C |
| Operating humidity | 5 % to 85 % (There should be no condensation of moisture.) |
| Weight | 4.2 kg (9.26 lb) |
| Dimensions | 320 (W) x 370 (D) x 105 (H) mm 12 - 5/8 (W) x 14 - 9/16 (D) x 4 - 1/8 (H) in |

2. Audio section

| | |
|-----------------------------|------------------------|
| Frequency response | 4 Hz to 20 kHz |
| Signal-to-noise ratio | 115 dB or more (JEITA) |
| Distortion | 0.006 % (JEITA) |

3. Accessories

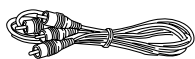
| | |
|--|---|
| ● Operating instructions | 1 |
| ● Power cord (KUCXJ and WYXJ5 types) | 1 |
| ● Power cord (TLFXJ type) | 2 |
| ● Audio cable | 1 |
| ● Control cord | 1 |
| ● Forced eject pin (housed in a groove in the bottom panel) | 1 |
| ● SD memory card | 1 |
| ● Limited warranty (KUCXJ only)..... | 1 |

NOTE:

Specifications and design are subject to possible modification without notice.

Accessories

Audio Cable
(VDE1064) L=1.5m



Control Cord
(XDE3063) L=1 m



Power Cord
(KUCXJ type : ADG7021)
(WYXJ5 : ADG1154)
(TLFXJ type : ADG1154, ADG7097)



Forced Eject Pin
(DEX1013)



SD Memory Card
(DWX2622)



AC power cord for TLFXJ type

The type of cord which can be used depends on the power voltage in each region or country. Please make sure you use the correct cord due to the possibility of fire or other hazard if used incorrectly (see below).

AC power cord and converter plug use

Region

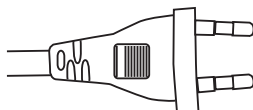
Plug type

ADG1154

For European type region

Caution

Do not use this power cord set in Taiwan.



European two-pin plug

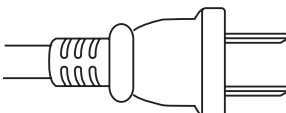
ADG7097

For Taiwan exclusively

Caution

For use in Taiwan only.

In other areas, please do not use.



Taiwanese two-pin flat-bladed plug

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CDJ-1000MK3

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
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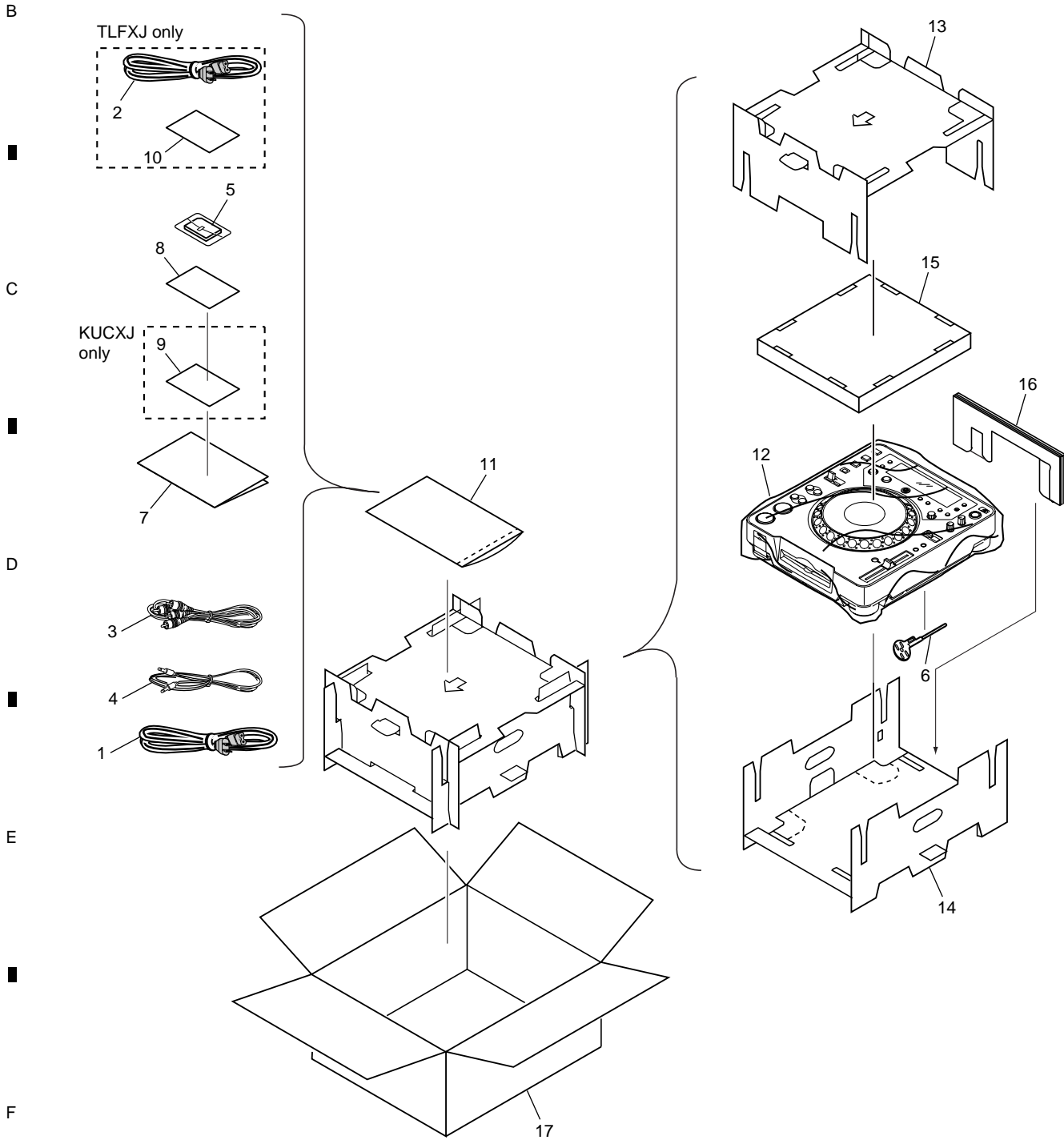
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2. EXPLODED VIEWS AND PARTS LIST

- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Screws adjacent to  mark on product are used for disassembly.
 - For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

| Mark No. | Description | Part No. |
|-----------------|--|------------------------|
| ⚠ 1 | Power Cord | See Contrast table (2) |
| ⚠ 2 | Power Cord | See Contrast table (2) |
| 3 | Audio Cable (L = 1.5 m) | VDE1064 |
| 4 | Control Cord (L = 1 m) | XDE3063 |
| 5 | SD Memory Card | DWX2622 |
| 6 | Forced Eject Pin | DEX1013 |
| 7 | Operating Instructions | See Contrast table (2) |
| NSP 8 | User Seat | DRM1262 |
| NSP 9 | Limited Warranty | See Contrast table (2) |
| 10 | Caution Card SB | See Contrast table (2) |
| NSP 11 | Polyethylene Bag (0.06 x 230 x 340) | AHG7117 |
| 12 | Packing Sheet | AHG7010 |
| 13 | Pad (A) | DHA1533 |
| 14 | Pad (B) | DHA1534 |
| 15 | Pad (C) | DHA1535 |
| 16 | Pad (D) | DHA1536 |
| 17 | Packing Case | See Contrast table (2) |

(2) CONTRAST TABLE

CDJ-1000MK3/KUCXJ, WYXJ5 and TLFXJ are constructed the same except for the following:

| Mark | No. | Symbol and Description | CDJ-1000MK3/KUCXJ | CDJ-1000MK3/WYXJ5 | CDJ-1000MK3/TLFXJ |
|-------------|------------|---|--------------------------|--------------------------|--------------------------|
| ⚠ | 1 | Power Cord | ADG7021 | ADG1154 | ADG1154 |
| ⚠ | 2 | Power Cord | Not used | Not used | ADG7097 |
| | 7 | Operating Instructions (English) | DRB1397 | Not used | Not used |
| | 7 | Operating Instructions (English/French/German/Italian/Dutch/Spanish) | Not used | DRB1396 | Not used |
| | 7 | Operating Instructions (English/ Spanish/ Chinese) | Not used | Not used | DRB1398 |
| NSP | 9 | Limited Warranty | ARY7043 | Not used | Not used |
| | 10 | Caution Card SD | Not used | Not used | ARM7064 |
| | 17 | Packing Case | DHG2576 | DHG2575 | DHG2577 |

2.2 EXTERIOR SECTION

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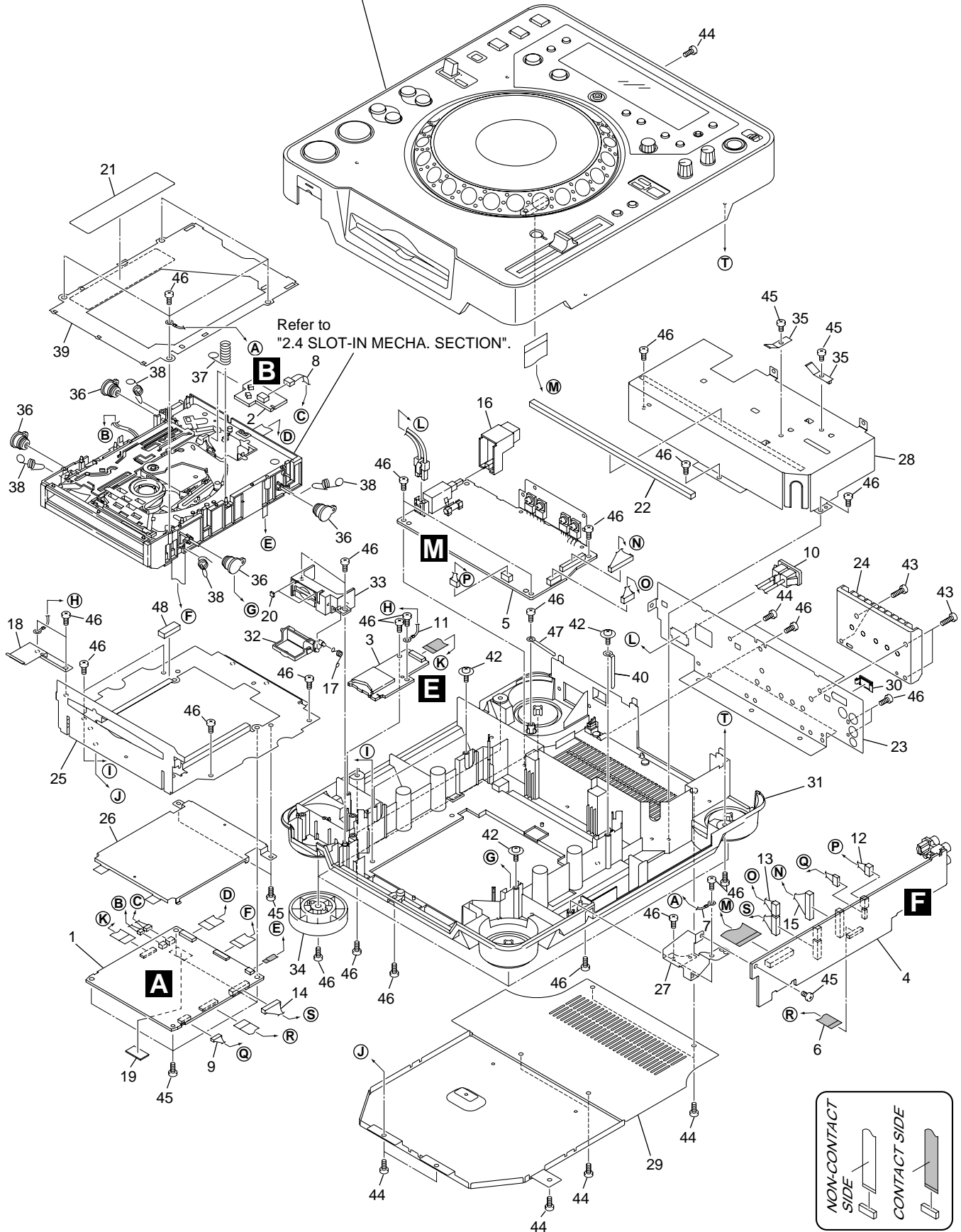
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Refer to
"2.3 CONTROL PANEL SECTION".

Refer to
"2.4 SLOT-IN MECHA. SECTION".



CDJ-1000MK3

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(1) EXTERIOR SECTION PARTS LIST

| Mark No. | Description | Part No. | Mark No. | Description | Part No. |
|----------|------------------------|------------------------|----------|---------------------|------------------------|
| 1 | MAIN Assy | DWG1591 | 27 | Earth Plate C | DNH2715 |
| 2 | SLMB Assy | DWS1366 | 28 | Shield Box | DNH2728 |
| 3 | SDCB Assy | DWX2558 | 29 | Bottom Plate | See Contrast table (2) |
| 4 | MJCB Assy | DWG1605 | 30 | Blind Cap | DNK4218 |
| △ | 5 SW POWER SUPPLY Assy | DWR1409 | 31 | Chassis | DNK4553 |
| 6 | 15P Flexible Cable | DDD1301 | 32 | Card Door | DNK4554 |
| 7 | Earth Lead Unit/300V | DDF1032 | 33 | Card Holder | DNK4555 |
| 8 | Connector Assy 3P | DKP3751 | 34 | Insulator Assy | DXA2092 |
| 9 | Connector Assy 6P | DKP3752 | 35 | Earth Plate | VBK1070 |
| △ | 10 Inlet Assy | See Contrast table (2) | 36 | Damper | CNV6011 |
| 11 | Earth Lead Unit/300V | PDF1104 | 37 | Earth Spring | DBH1398 |
| 12 | Connector Assy | PF04PP-Q12 | 38 | Float Spring G5 | DBH1494 |
| 13 | Connector Assy | PF06PP-Q15 | 39 | Mecha. Plate | DNH2339 |
| 14 | Connector Assy | PF09PP-B12 | 40 | Cord Clamper | RNH-184 |
| 15 | Connector Assy | PF11EE-R15 | 41 | Binder (SKB-90BK) | ZCA-SKB90BK |
| 16 | Power Button | DAC2314 | 42 | DM Screw | DBA1260 |
| 17 | Door Spring | DBH1565 | 43 | Screw | BBT30P100FTB |
| 18 | Card Spring | DBK1295 | 44 | Screw | BBZ30P060FTB |
| NSP | 19 Silicone Sheet D5 L | DEB1456 | 45 | Screw | BBZ30P060FTC |
| 20 | Door Cushion | DEB1780 | 46 | Screw | BPZ30P080FTB |
| 21 | Laser Caution | See Contrast table (2) | NSP 47 | Cord Clamper (069Z) | ZCB-069Z |
| 22 | Dust Guard | DEC2939 | 48 | FFC Guard | DEC2586 |
| NSP | 23 Rear Panel | See Contrast table (2) | | | |
| 24 | Heatsink | DNG1099 | | | |
| 25 | PCB Stay | DNH2711 | | | |
| 26 | Shield Case | DNH2712 | | | |

(2) CONTRAST TABLE

CDJ-1000MK3/KUCXJ, WYXJ5 and TLFXJ are constructed the same except for the following:

| Mark | No. | Symbol and Description | CDJ-1000MK3/KUCXJ | CDJ-1000MK3/WYXJ5 | CDJ-1000MK3/TLFXJ |
|------|-----|------------------------|-------------------|-------------------|-------------------|
| △ | 10 | Inlet Assy | DKP3754 | DKP3753 | DKP3753 |
| | 21 | Laser Caution (7L) | DRW2308 | DRW2308 | Not used |
| | 21 | Laser Caution | Not used | Not used | DRW2248 |
| NSP | 23 | Rear Panel | DNC1765 | DNC1758 | DNC1766 |
| | 29 | Bottom Plate | DNH2710 | DNH2710 | DNH2732 |

2.3 CONTROL PANEL SECTION

A

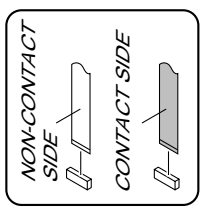
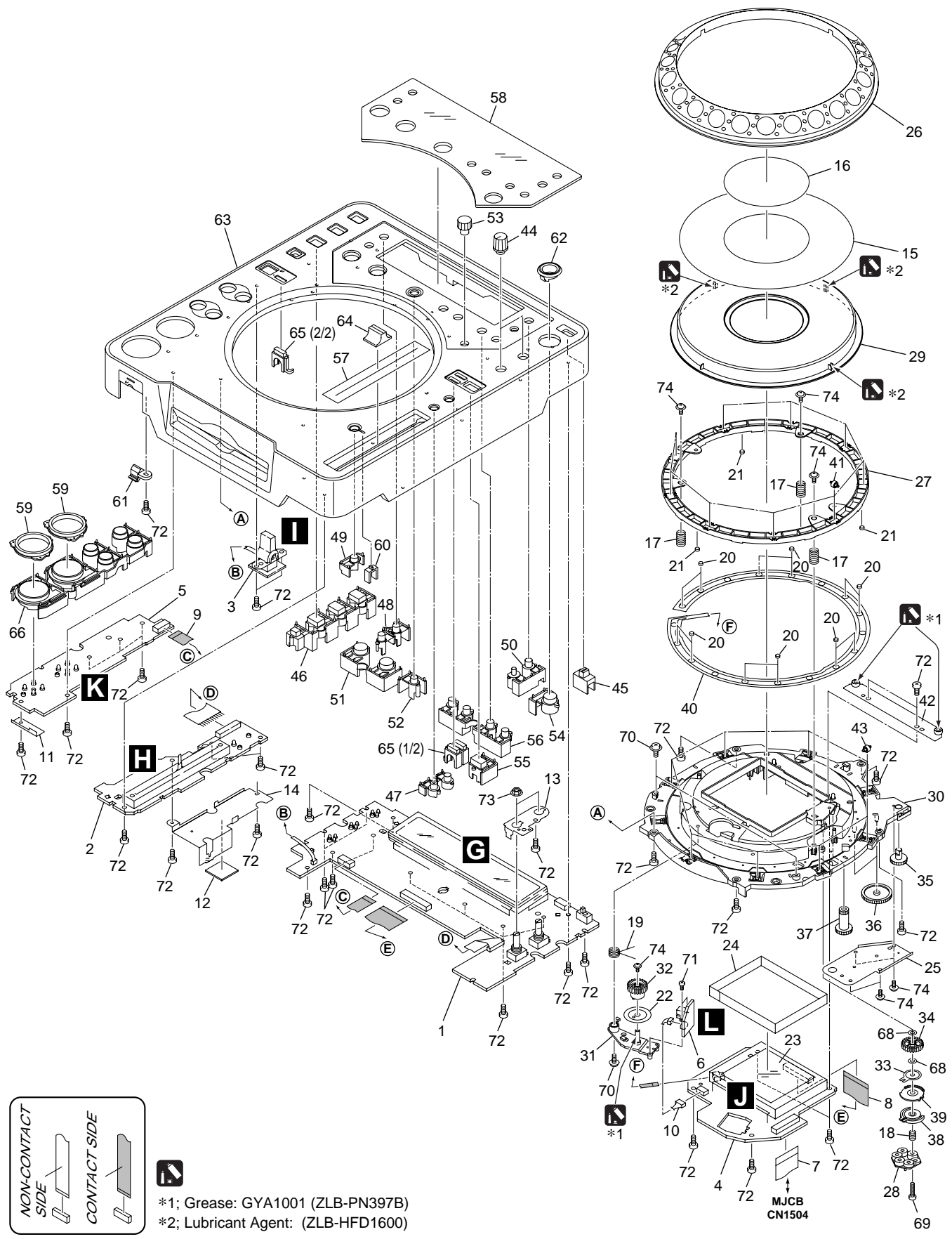
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*1; Grease: GYA1001 (ZLB-PN397B)
 *2; Lubricant Agent: (ZLB-HFD1600)

CDJ-1000MK3

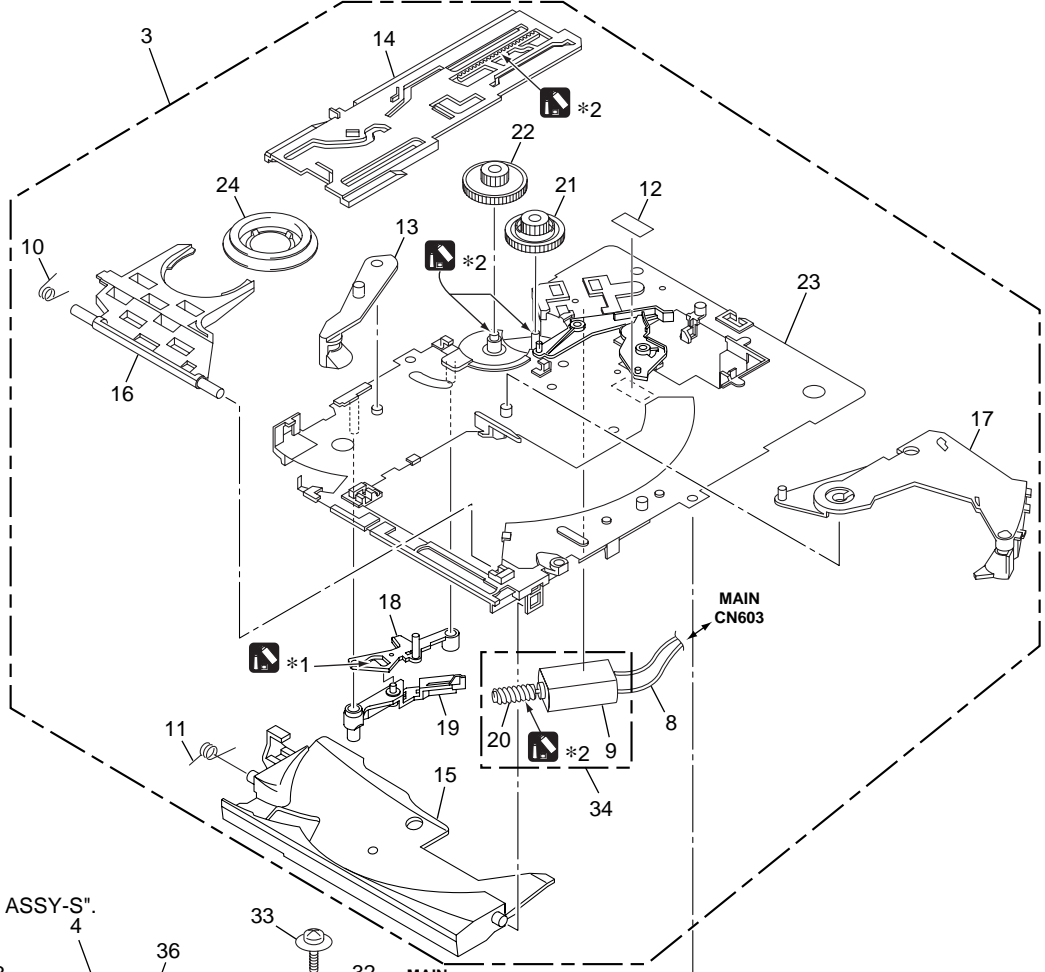
5 6
CONTROL PANEL SECTION PARTS LIST

| <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> | <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> |
|-----------------|----------------------|-----------------|-----------------|----------------------|-----------------|
| 1 | MFLB Assy | DWG1606 | 46 | Set Knob (HS) | DAC1986 |
| 2 | SLDB Assy | DWS1367 | 47 | Set Knob (MT) | DAC1987 |
| 3 | RSWB Assy | DWS1368 | 48 | Set Knob (TIME) | DAC1991 |
| 4 | JFLB Assy | DWG1602 | 49 | Tempo Reset Knob | DAC1993 |
| 5 | KSWB Assy | DWS1365 | 50 | Set Knob (MEMO) | DAC1994 |
| 6 | JOGB Assy | DWG1603 | 51 | Set Knob (LOOP) | DAC1995 |
| 7 | 22P Flexible Cable | DDD1302 | 52 | Re-Loop Button | DAC2347 |
| 8 | 25P Flexible Cable | DDD1303 | 53 | Adjust Knob | DAC2350 |
| 9 | 10P Flexible Cable | DDD1304 | 54 | Eject Knob | DAC2365 |
| 10 | Connector Assy | PF04PP-B07 | 55 | Mode Select Knob | DAC2366 |
| 11 | LED Guard | DEC2932 | 56 | Set Knob (SC) | DAC2368 |
| 12 | Protect Cushion | DEC2938 | 57 | Slide Sheet 1C | DAH2404 |
| 13 | VR Stay | DNF1663 | 58 | Display Panel | DAH2435 |
| 14 | Earth Plate P | DNH2714 | 59 | Ring Lens | DNK3880 |
| 15 | JOG Plate | DAH2052 | 60 | Tempo Lens | DNK3882 |
| 16 | JOG Panel | DAH2182 | 61 | Card Lens | DNK3885 |
| 17 | SW Spring 25 | DBH1514 | 62 | Eject Guard | DNK3958 |
| 18 | Gear Spring 200 | DBH1525 | 63 | Control Panel | DNK4568 |
| 19 | Arm Spring | DBH1566 | 64 | Slide Knob | DNK4656 |
| 20 | SW Cushion HH48/2 | DEC2538 | 65 | Mode Lens | DNK4701 |
| 21 | Ring Cushion L24/2.0 | DEC2958 | 66 | Set Knob (PLAY) Assy | DXB1909 |
| 22 | Encoder Plate | DEC2889 | 67 | ••••• | |
| 23 | Protect Sheet | DEC2945 | 68 | Washer | WA52D120D25 |
| 24 | FL Sheet | DEC2946 | 69 | Screw | BPZ20P100FTC |
| 25 | Gear Plate | DNH2713 | 70 | Screw | IPZ30P100FTC |
| 26 | JOG B | DNK4068 | 71 | Screw | BPZ20P060FTC |
| 27 | SW Ring | DNK4070 | 72 | Screw | BPZ30P080FTB |
| 28 | Adjust Plate | DNK4178 | 73 | Flange Nut M9 | DBN1008 |
| 29 | JOG A | DNK4556 | 74 | Screw | DBA1265 |
| 30 | JOG Holder 1000 | DNK4558 | | | |
| 31 | Gear Arm | DNK4559 | | | |
| 32 | Gear | DNK4560 | | | |
| 33 | Smoother | DNK4561 | | | |
| 34 | Gear A | DNK4562 | | | |
| 35 | Joint Gear 1 | DNK4563 | | | |
| 36 | Joint Gear 2 | DNK4564 | | | |
| 37 | Joint Gear 3 | DNK4565 | | | |
| 38 | Compressor Plate | DNK4566 | | | |
| 39 | Cam Plate | DNK4567 | | | |
| 40 | Sheet SW | DSX1065 | | | |
| 41 | Roller A Assy | DXB1825 | | | |
| 42 | JOG Stay Assy | DXB1876 | | | |
| 43 | Roller B Assy | DXB1877 | | | |
| 44 | Rotary Knob C | DAA1194 | | | |
| 45 | Slide SW Knob | DAC1926 | | | |

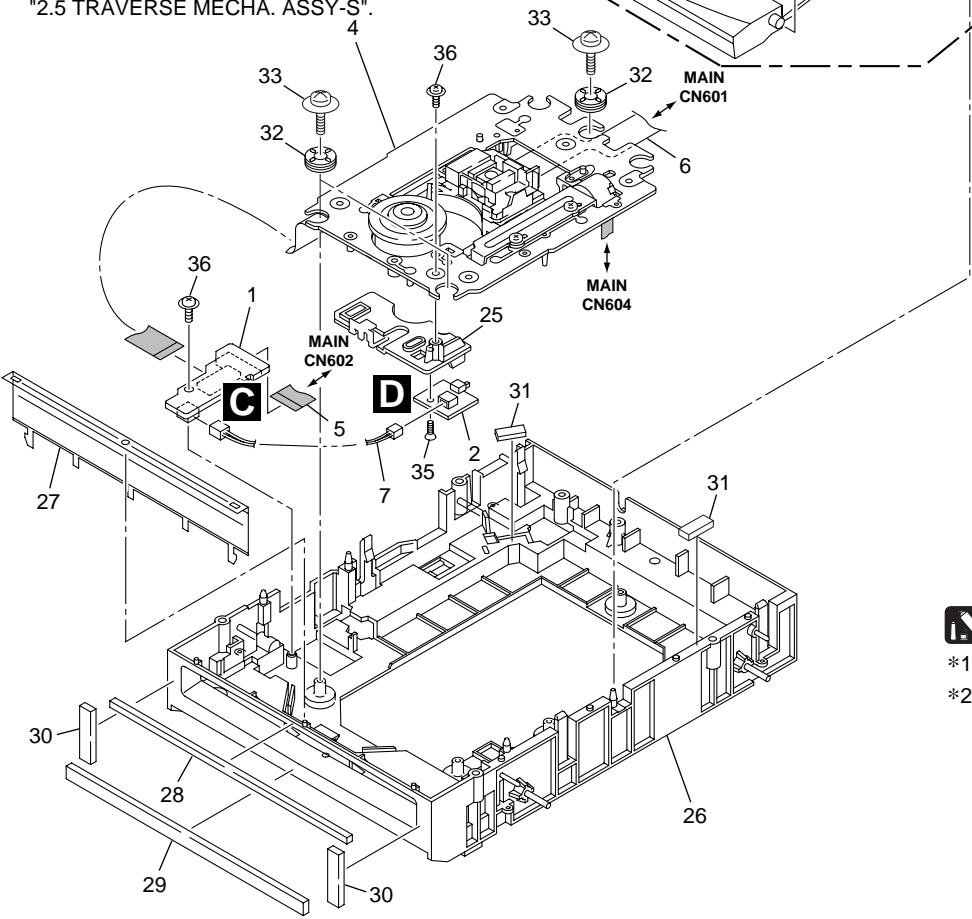
2.4 SLOT-IN MECHA. SECTION


A
B
C
D
E
F

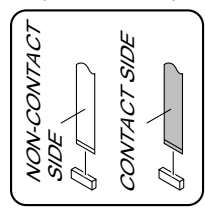
1 2 3 4



Refer to "2.5 TRAVERSE MECHA. ASSY-S".



 *1; Dyefree : GEM1036 (ZLX-ME413A)
 *2; Grease: GYA1001 (ZLB-PN397B)



1 2 3 4

5 6 7 8

SLOT-IN MECHA. SECTION PARTS LIST

| <u>Mark No.</u> | <u>Description</u> | <u>Part No.</u> |
|-----------------|-------------------------|-----------------|
| 1 | SPCN Assy | DWX2559 |
| 2 | INSW Assy | DWS1369 |
| NSP 3 | Slot-in Mecha. G11 Assy | DXA2068 |
| 4 | Traverse Mecha. Assy-S | DXX2566 |
| 5 | 13P Flexible Cable | DDD1299 |
| 6 | 26P Flexible Cable | DDD1300 |
| 7 | Connector Assy 2P | DKP3769 |
| 8 | Connector Assy 2P | DKP3750 |
| NSP 9 | DC Motor S | DXM1230 |
| 10 | Clamp Spring | DBH1374 |
| 11 | Guide Spring | DBH1375 |
| 12 | SW Lever Spacer | DEC2420 |
| 13 | Drive Lever | DNK3406 |
| 14 | Main Cam | DNK3407 |
| 15 | Disc Guide | DNK3478 |
| 16 | Clamp Arm | DNK3576 |
| 17 | Eject Lever | DNK3684 |
| 18 | Lever AP | DNK3835 |
| 19 | Lever BP | DNK3836 |
| NSP 20 | Worm Gear | DNK3910 |
| 21 | Loading Gear | DNK3911 |
| 22 | Drive Gear | DNK3912 |
| 23 | Loading Base Assy-S | DEA1022 |
| 24 | Clamper D4 Assy | DXA2043 |
| 25 | Inside SW Base | DNK4236 |
| 26 | Float Base G11 Assy | DXB1793 |
| 27 | Front Sheet | DED1132 |
| 28 | Vessel Cushion A | DEC2852 |
| 29 | Vessel Cushion B | DEC2853 |
| 30 | Vessel Cushion C | DEC2854 |
| 31 | Spacer POR (T3) | DEB1566 |
| 32 | Float Rubber D3 | DEB1404 |
| 33 | Float Screw | DBA1286 |
| 34 | Loading Motor Assy-S | DEA1008 |
| 35 | Screw 2 x 5 | VBA1062 |
| 36 | Screw | IPZ20P060FTC |

A

B

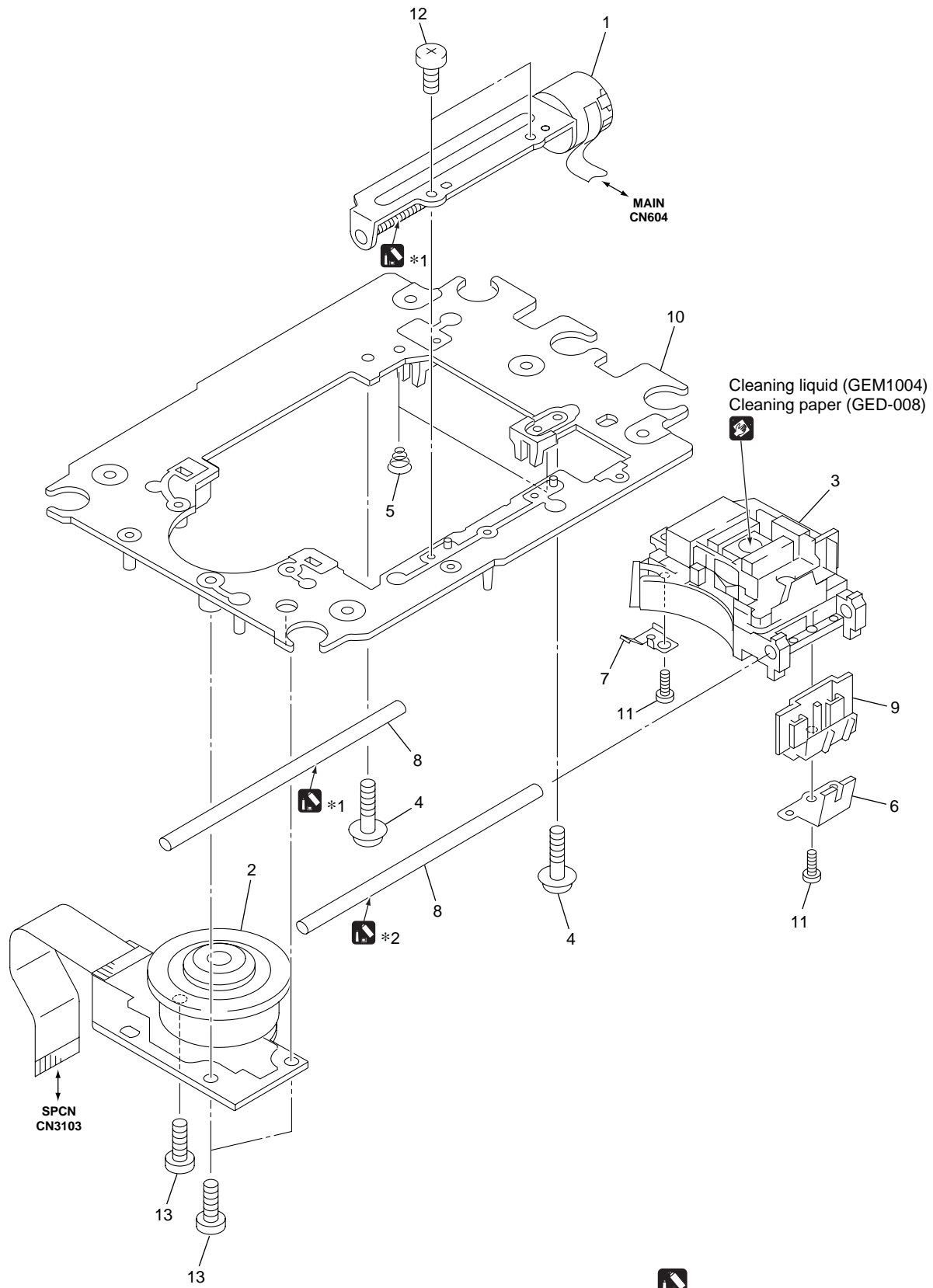
C

D


E

F

2.5 TRAVERSE MECHA. ASSY-S



Cleaning liquid (GEM1004)
Cleaning paper (GED-008)

 *1; Grease: GYA1001 (ZLB-PN397B)
*2; Grease: GEM1007 (ZLB-PN948P)

TRAVERSE MECHA. ASSY-S PARTS LIST

| Mark No. | Description | Part No. |
|-----------------|------------------------|-----------------|
| NSP 1 | Stepping Motor | DXM1227 |
| NSP 2 | Spindle Motor G11 | DXM1231 |
| NSP 3 | 04RM2 Pickup Assy R | OWY8071 |
| NSP 4 | Skew Screw | DBA1263 |
| NSP 5 | Skew Spring | DBH1437 |
| NSP 6 | Joint Spring (J) | DBK1261 |
| NSP 7 | Slider Spring G11 (J) | DBK1262 |
| NSP 8 | Guide Shaft (S) | DLA1918 |
| 9 | Joint | DNK3858 |
| NSP 10 | Mounting Plate G11 (J) | DNK4307 |
| 11 | Screw 04 | VBA1092 |
| 12 | Screw | BPZ20P080FTC |
| 13 | Screw | BPZ26P080FTC |

A

B

C

D

E

F

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

3.1.1 SIGNAL SECTION

A

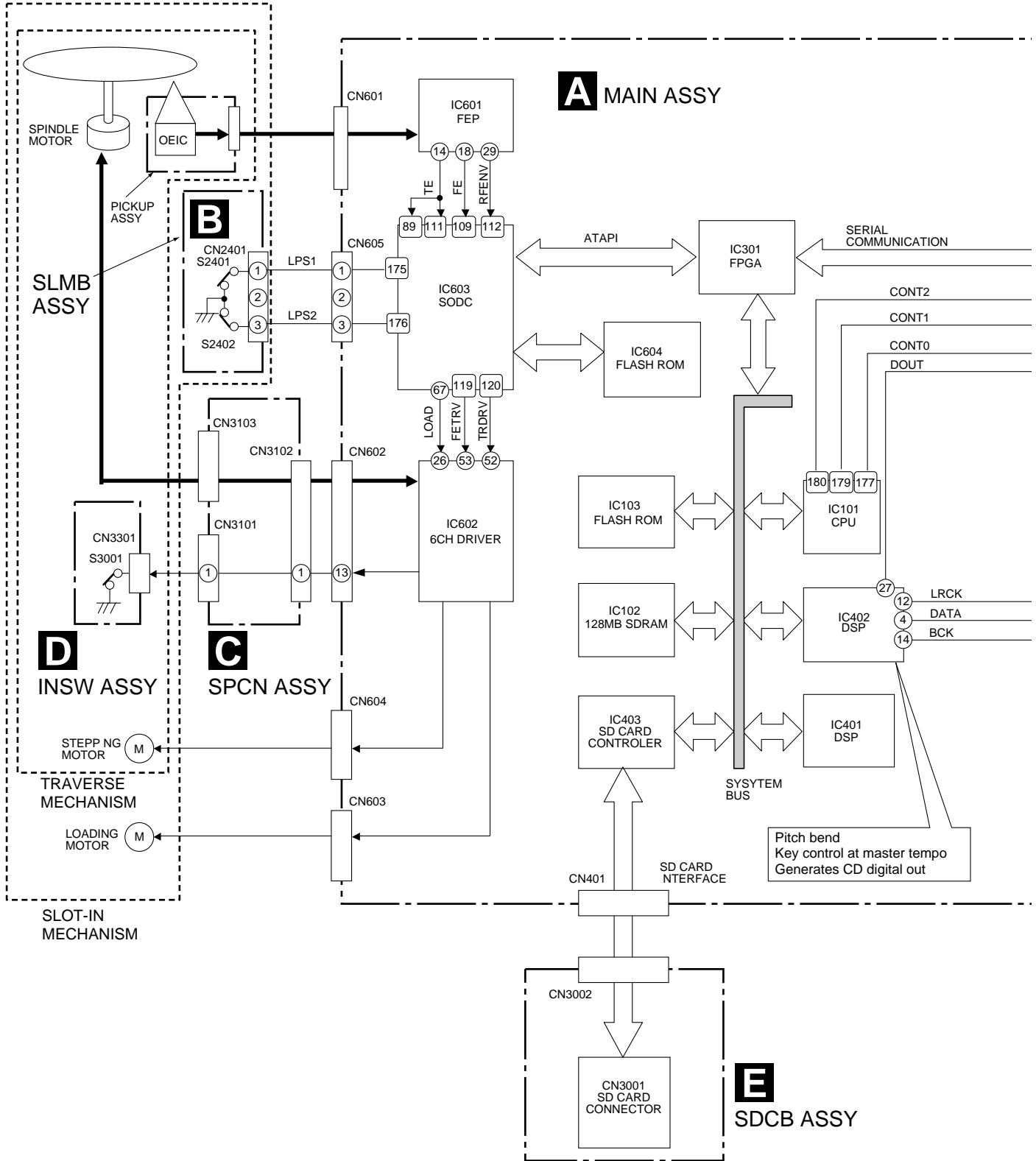
B

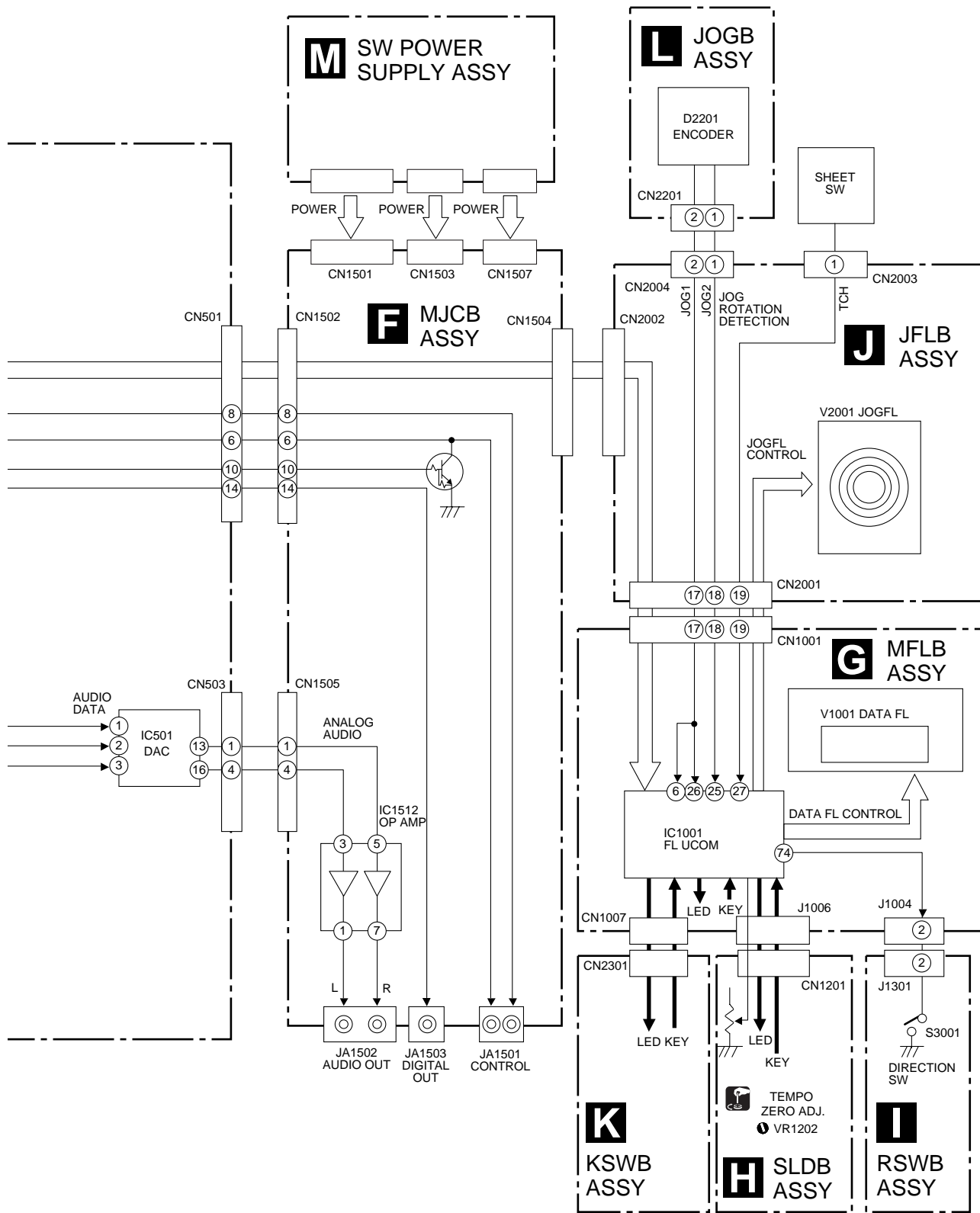
C

D

E

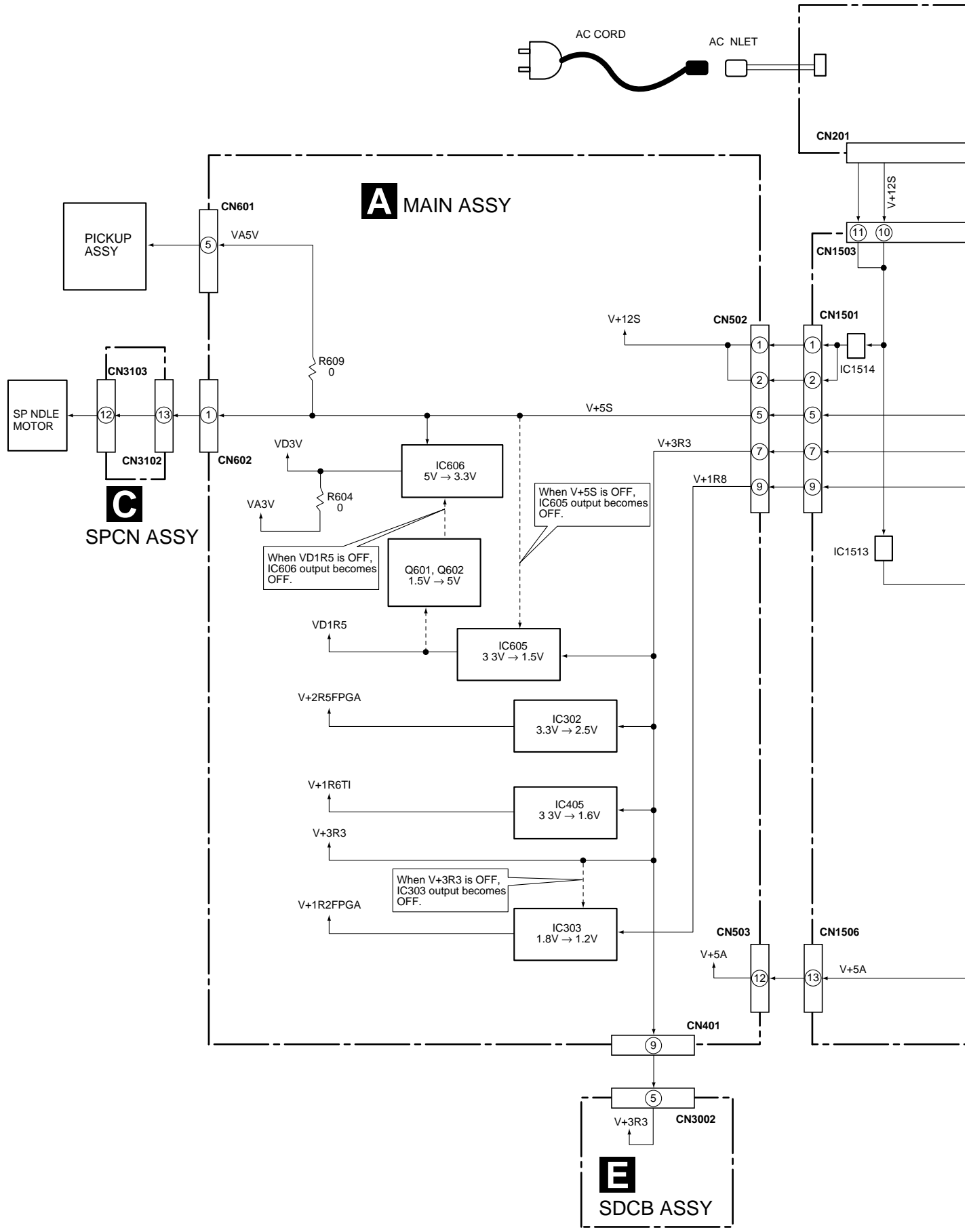
F

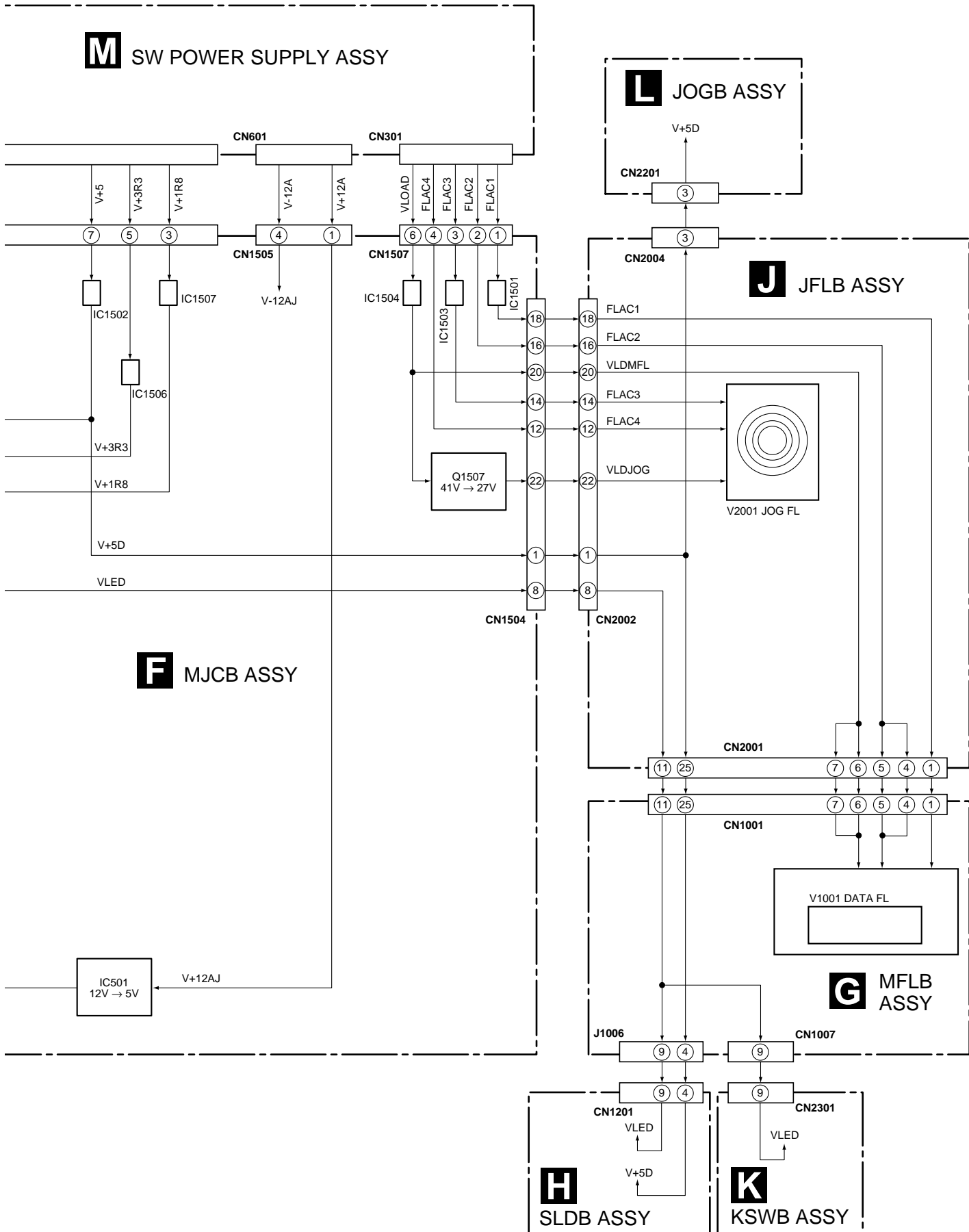




3.1.2 POWER SUPPLY SECTION

A
B
C
D
E
F





3.2 OVERALL WIRING DIAGRAM

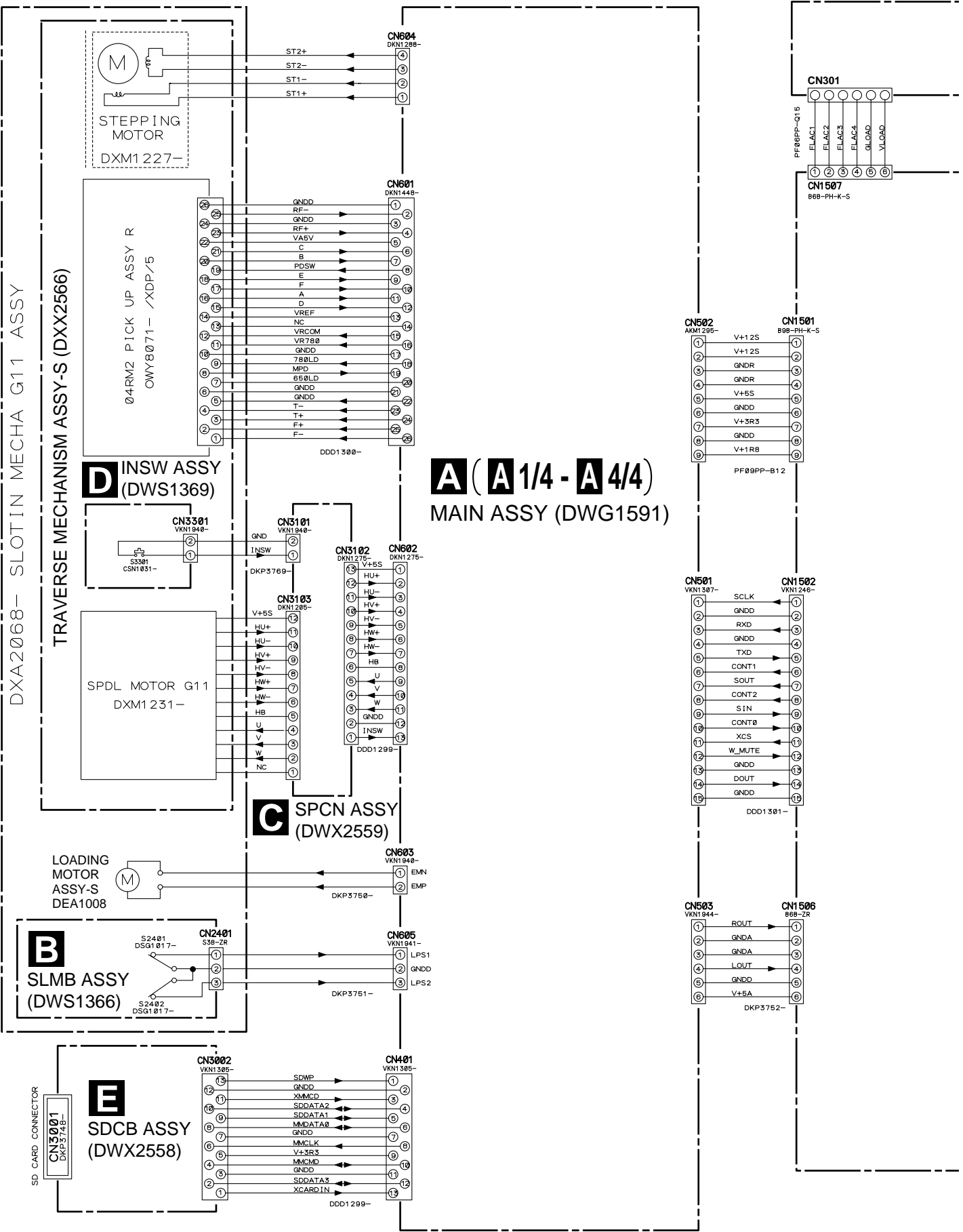
1

2

3

4

A
B
C
D
E
F



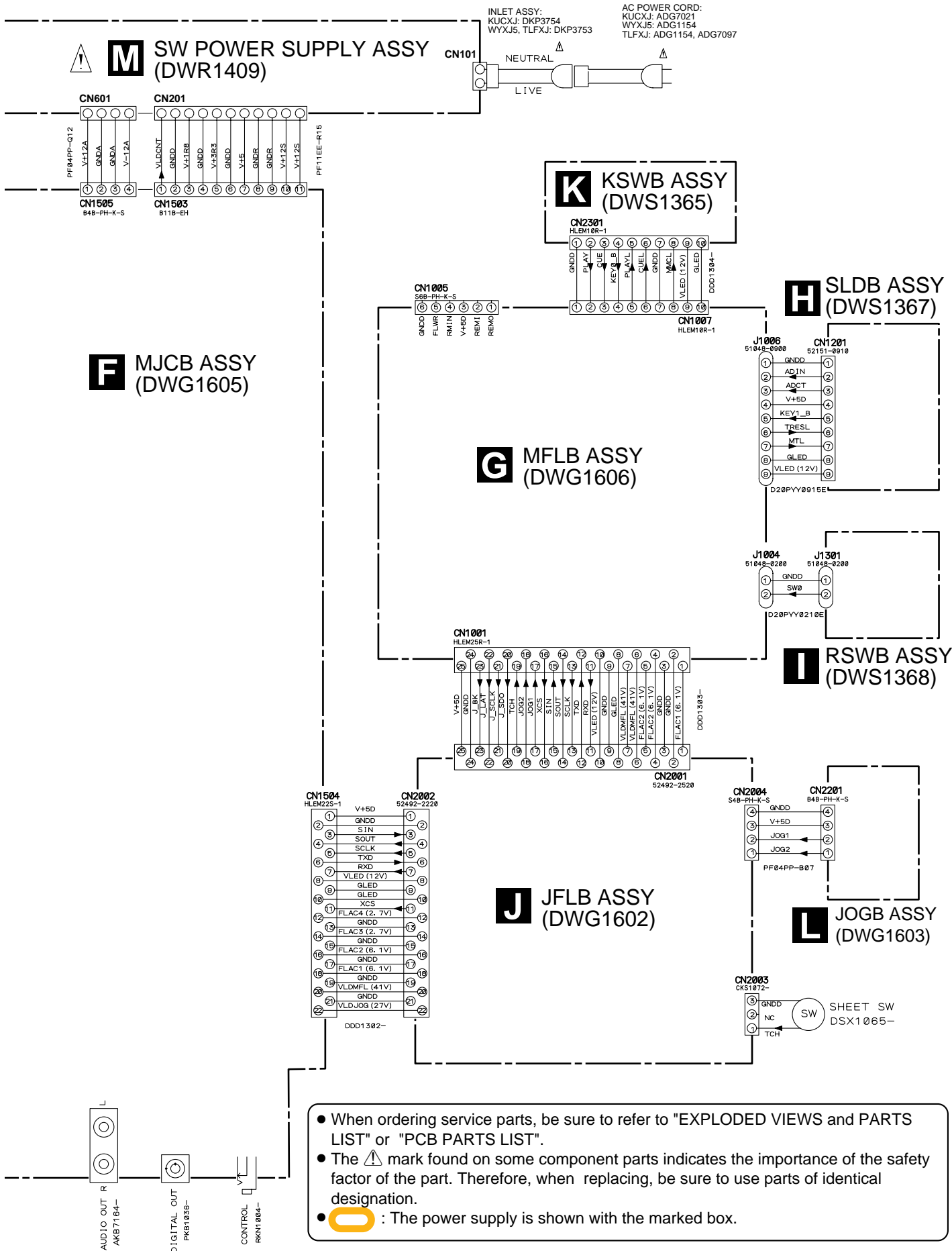
A (A 1/4 - A 4/4)
MAIN ASSY (DWG1591)


1

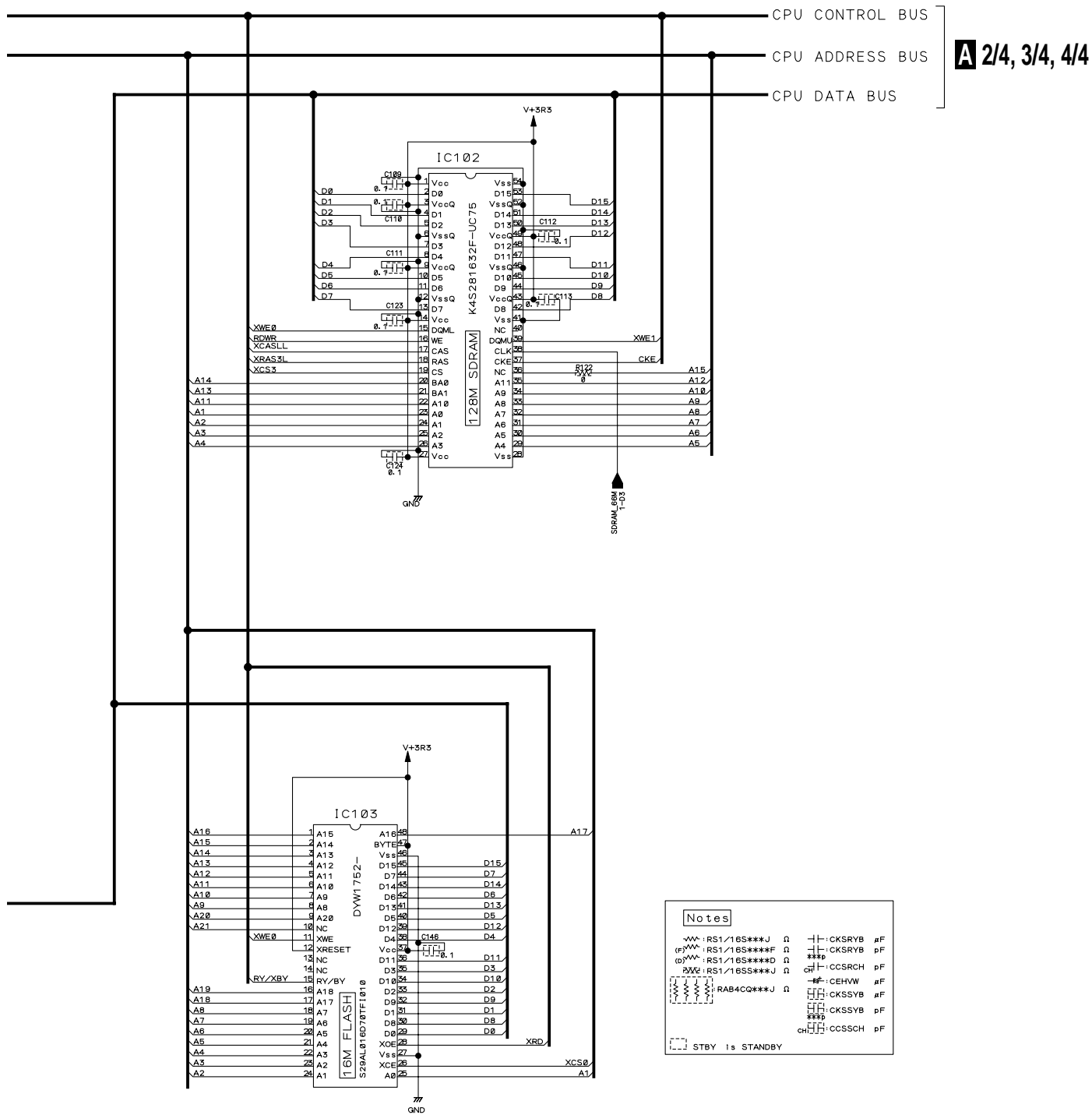
2

3

4

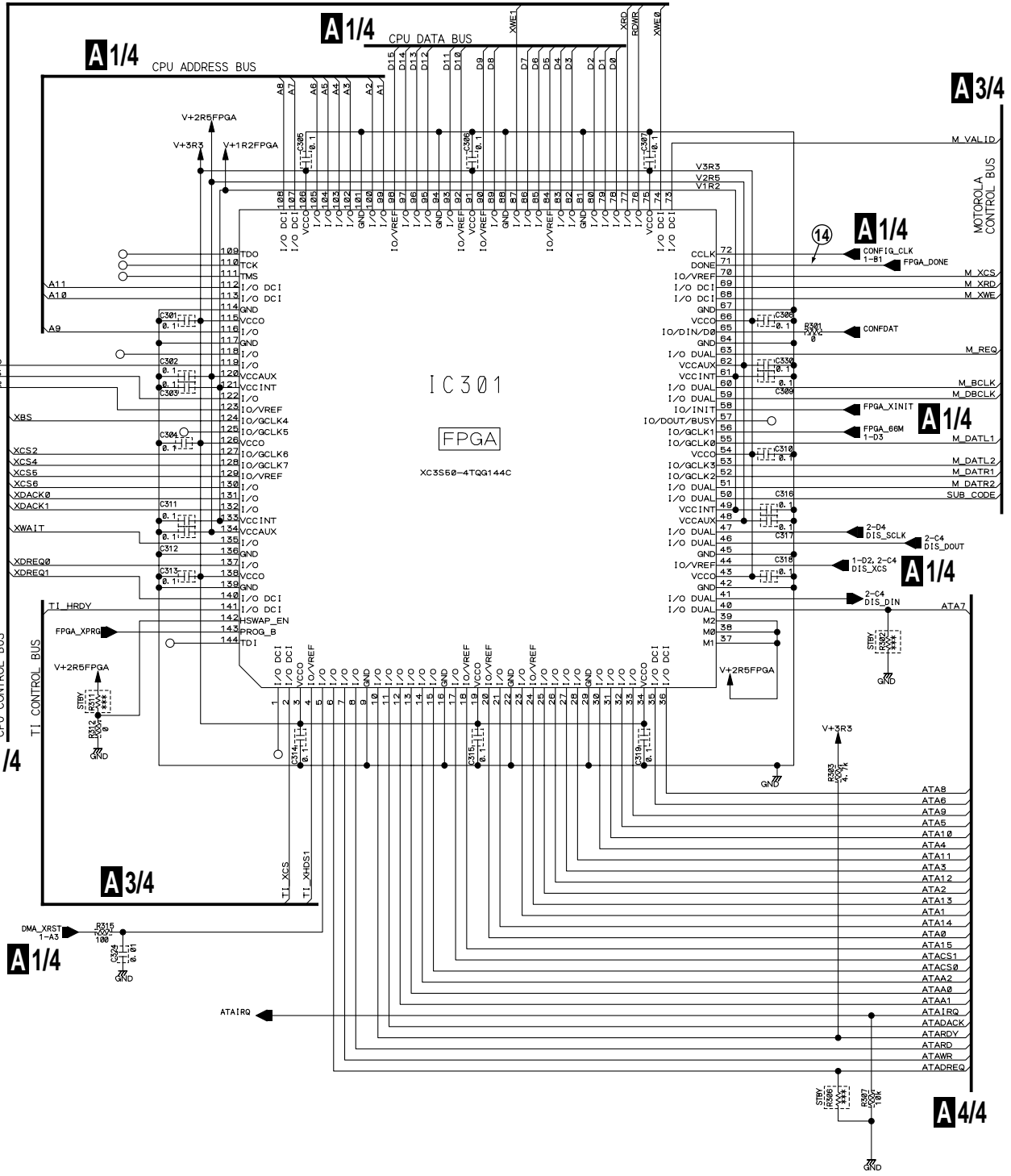
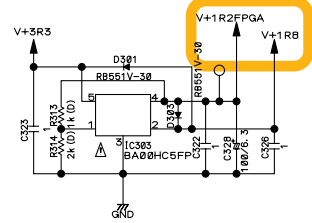
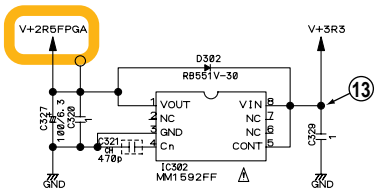


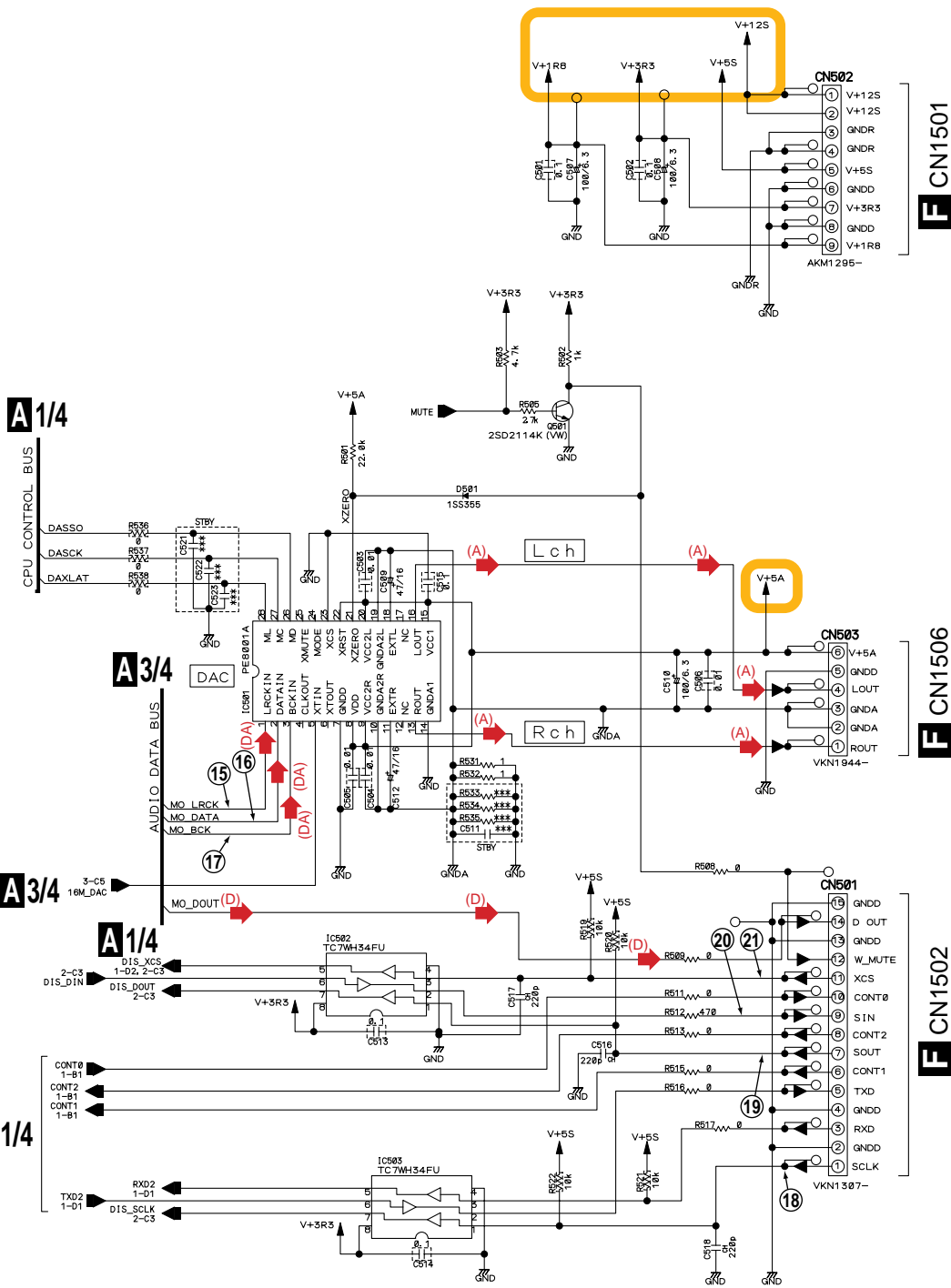
• When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
 • The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 •  : The power supply is shown with the marked box.



3.4 MAIN ASSY (2/4)

A 2/4 MAIN ASSY (DWG1591)





A 1/4

A 3/4

A 3/4

A 1/4

A 1/4

F CN1501

F CN1506

F CN1502

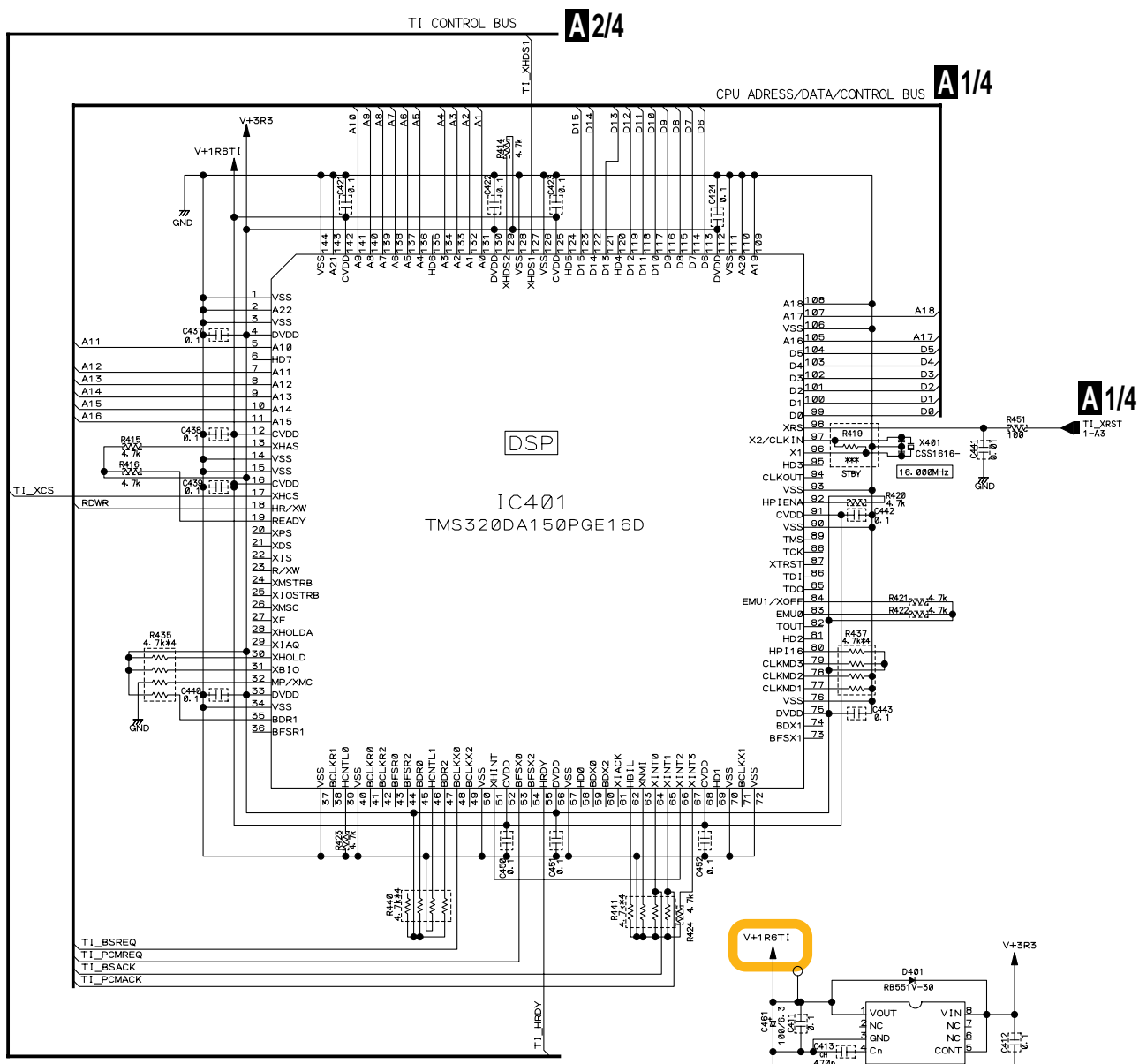
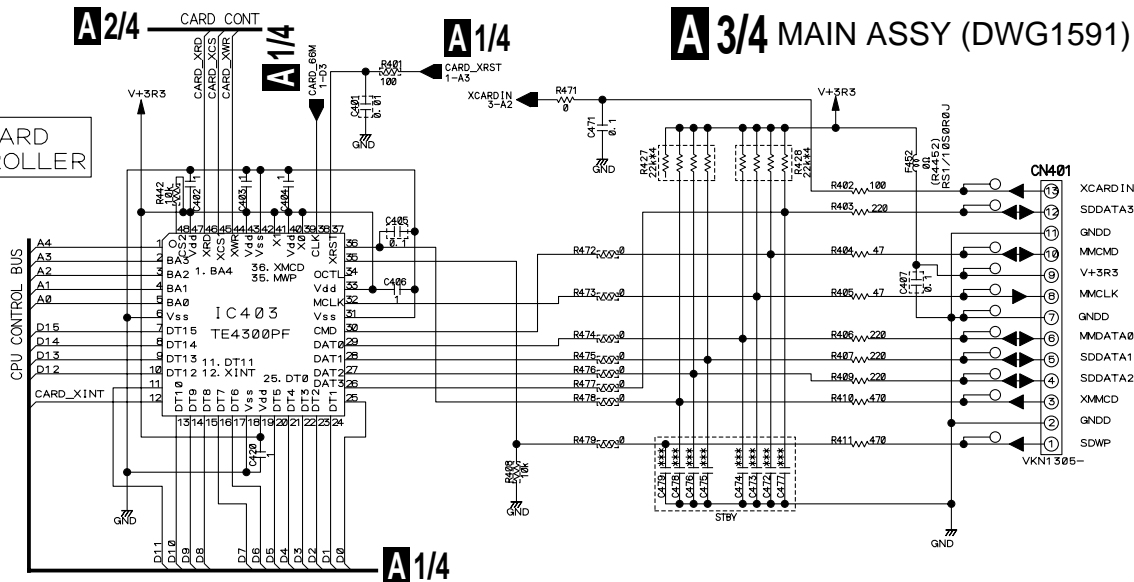
Notes

| | | | | |
|--------------|---|----|--------|----|
| RS1/16S***J | Ω | 1K | CKSRYB | MF |
| RS1/16S****F | Ω | 1K | CKSRYB | PF |
| RS1/16S****D | Ω | 1K | CCSRCH | PF |
| RS1/16S***J | Ω | 1K | CCSRCH | PF |
| RAB4CQ***J | Ω | 1K | CEHW | MF |
| | | 1K | CKSSYB | MF |
| | | 1K | CKSSYB | PF |
| | | 1K | CCSSCH | PF |

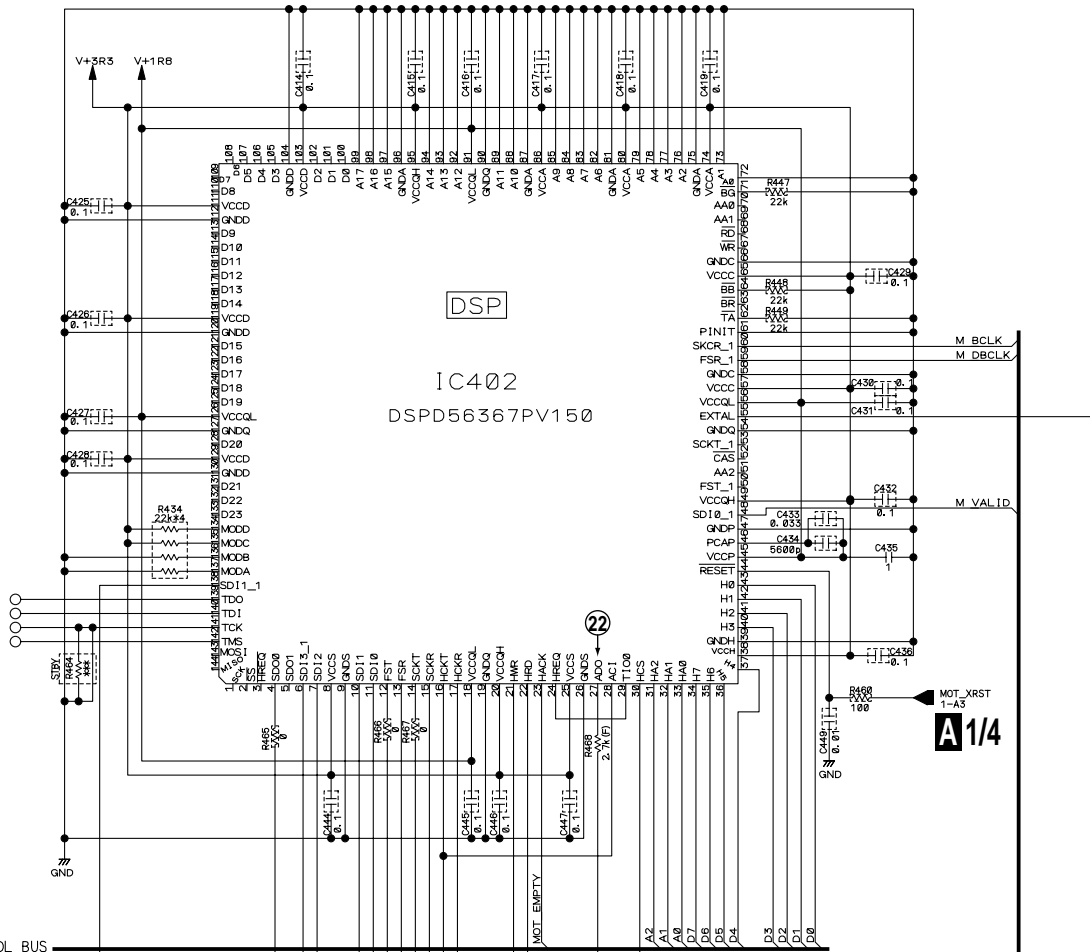
STBY 1s STANDBY

- (DA) : Audio Data Signal Route
- (A) : Analog Audio Signal Route
- (D) : Digital Out Signal Route

3.5 MAIN ASSY (3/4)



A 3/4



A1/4

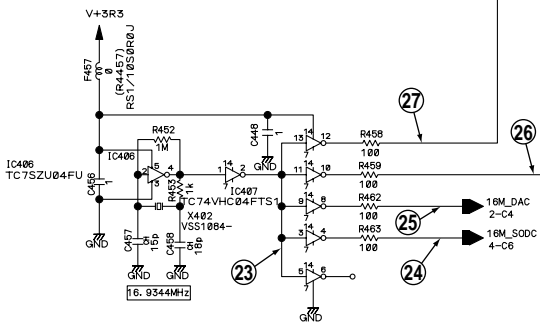
CPU ADDRESS/DATA/CONTROL BUS

A2/4

MOTOROLA CONTROL BUS

A2/4

AUDIO DATA BUS



A2/4

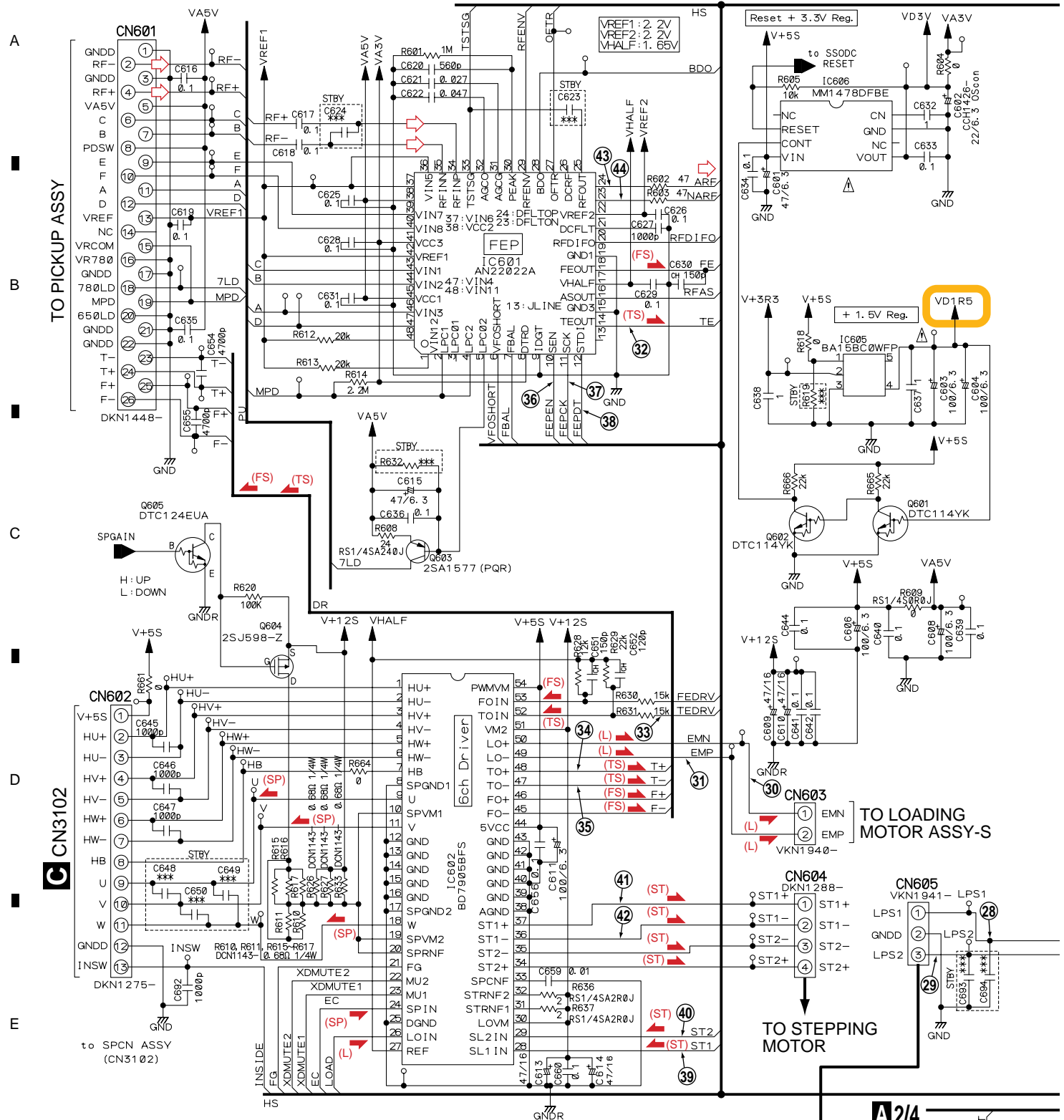
A4/4

| Notes | |
|-------|---------------|
| | RS1/16S***J Ω |
| | RS1/16S***F Ω |
| | RS1/16S***D Ω |
| | RS1/16S***J Ω |
| | RAB4CQ***J Ω |
| | CSRYB #F |
| | CSRYB pF |
| | CCSRCH pF |
| | CEHW #F |
| | CKSSYB #F |
| | CKSSYB pF |
| | CCSSCH pF |
| | 1s STANDBY |

: Audio Data Signal Route
 : Digital Out Signal Route

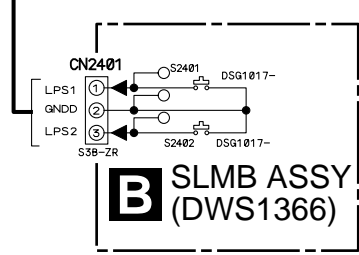
A3/4

3.6 MAIN (4/4) and SLMB ASSYS



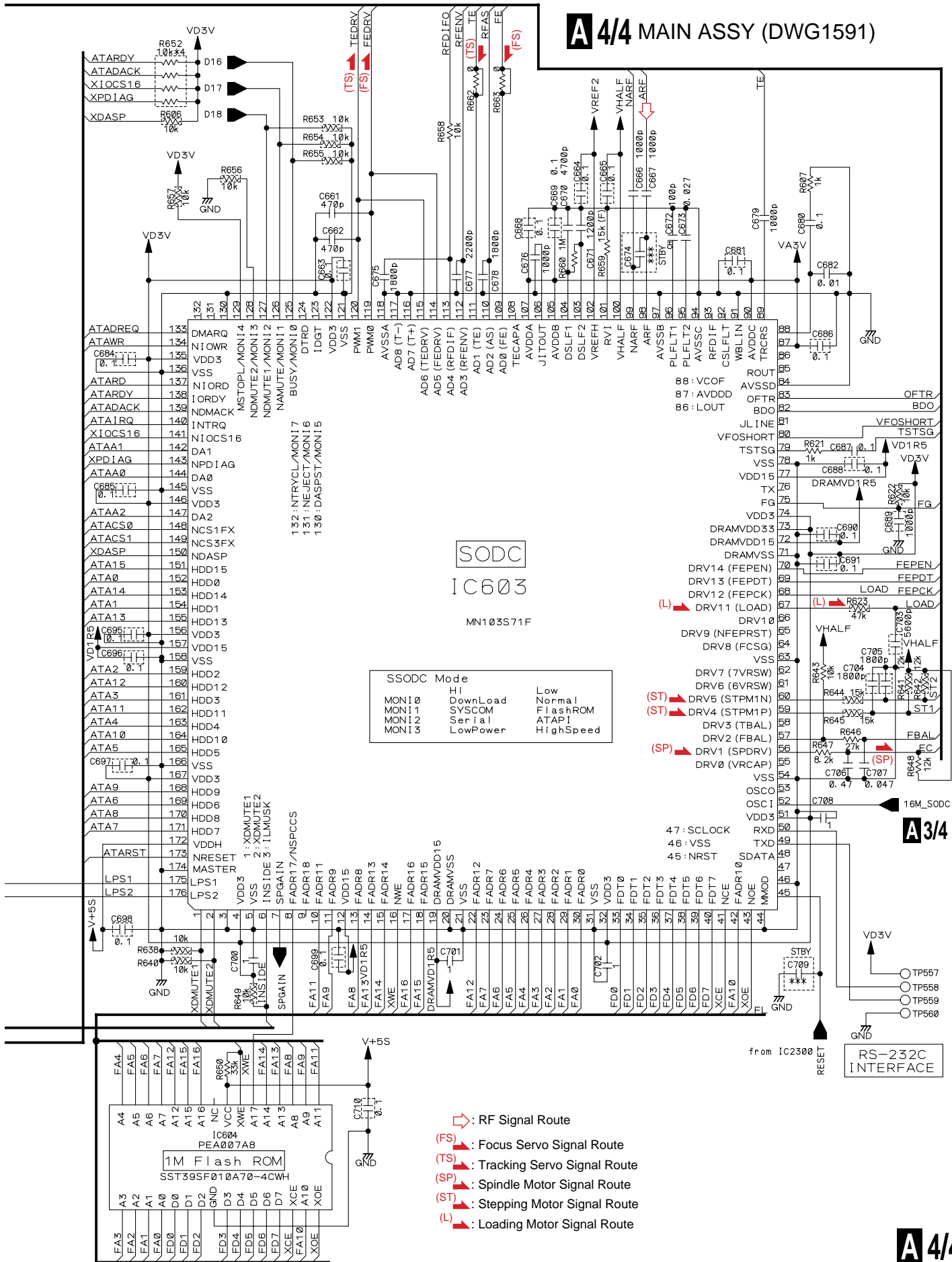
| Notes | | | |
|-------|--------------|----------|----------------|
| | RS1/16S***J | Ω | CKSRYB μ F |
| | RS1/16S***F | Ω | CKSRYB pF |
| | RS1/16S***D | Ω | ***p |
| | RS1/16SS***J | Ω | CCSRCH pF |
| | RAB4CQ***J | Ω | CEHVV μ F |
| | CKSSYB | Ω | CKSSYB μ F |
| | CKSSYB | Ω | CKSSYB pF |
| | CKSSYB | Ω | CKSSYB pF |
| | CKSSCH | Ω | CCSSCH pF |

STBY is STANDBY



A 4/4 B

A 4/4 MAIN ASSY (DWG1591)



A

B

C

D

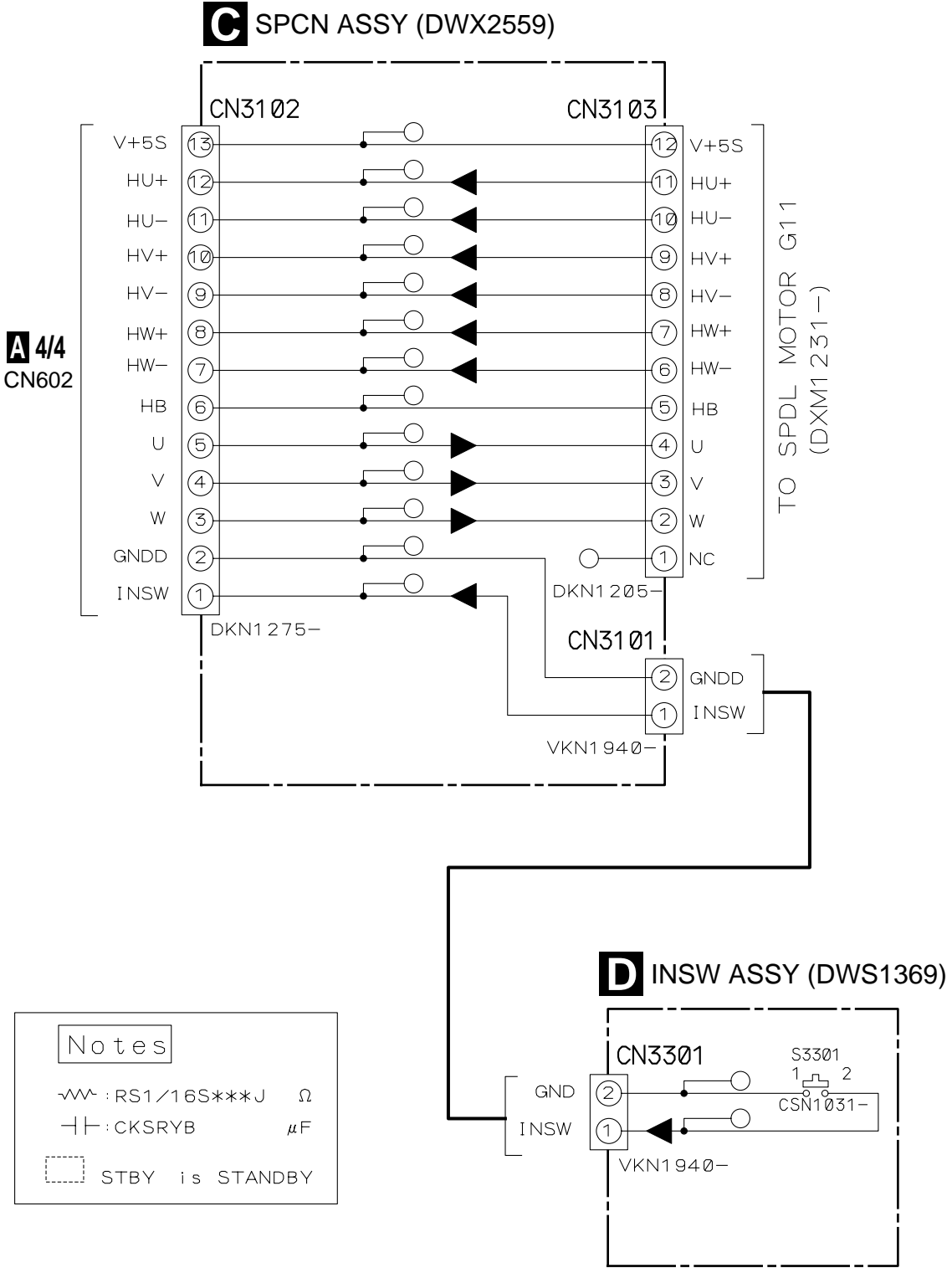
E

F

A 4/4

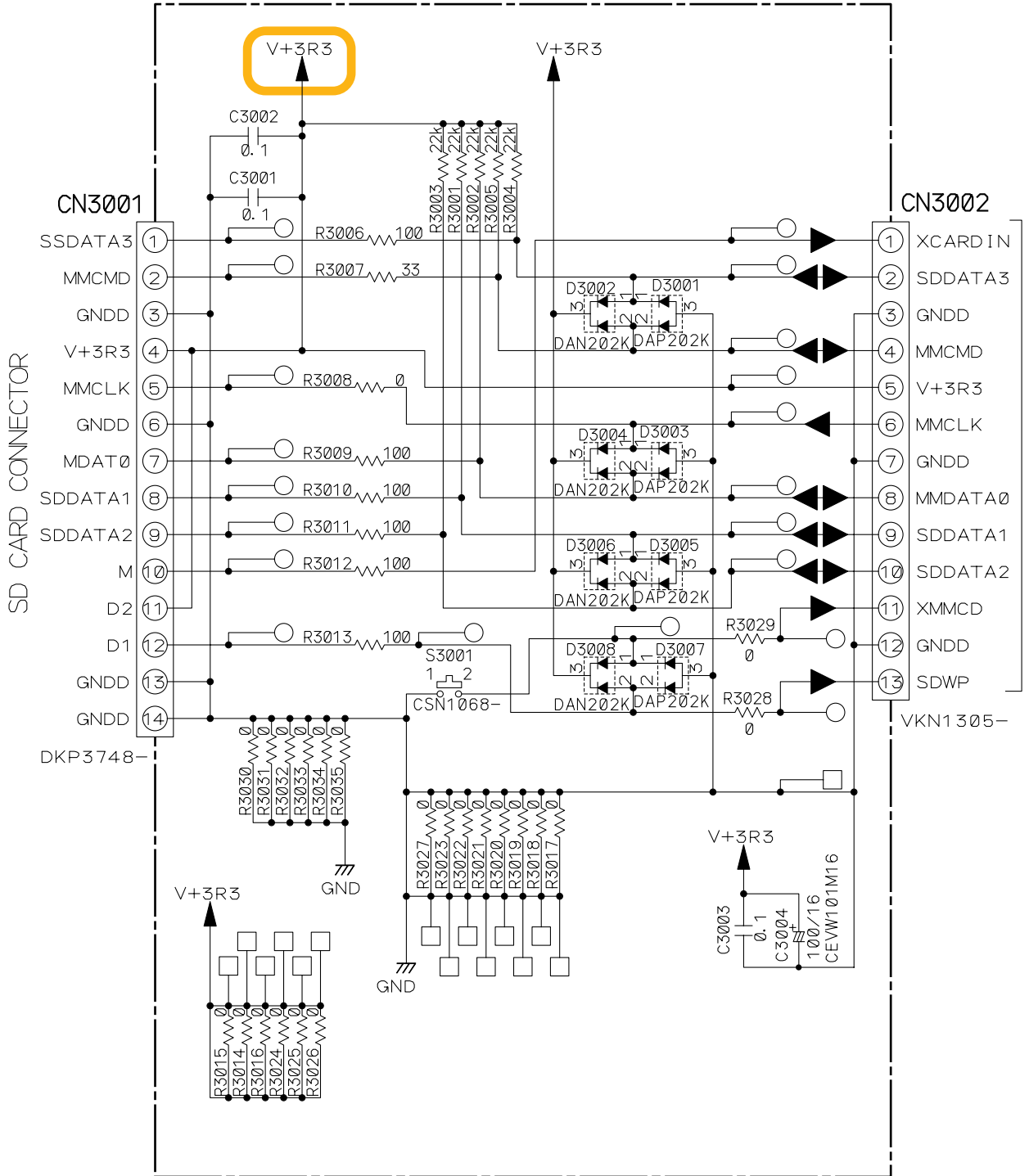
3.7 SPCN, INSW and SDCB ASSYS

A
B
C
D
E
F



C D

SDCB ASSY (DWX2558)



A 3/4 CN401

3.8 MJCB ASSY

1

2

3

4

F MJCB ASSY (DWG1605)

J CN2002

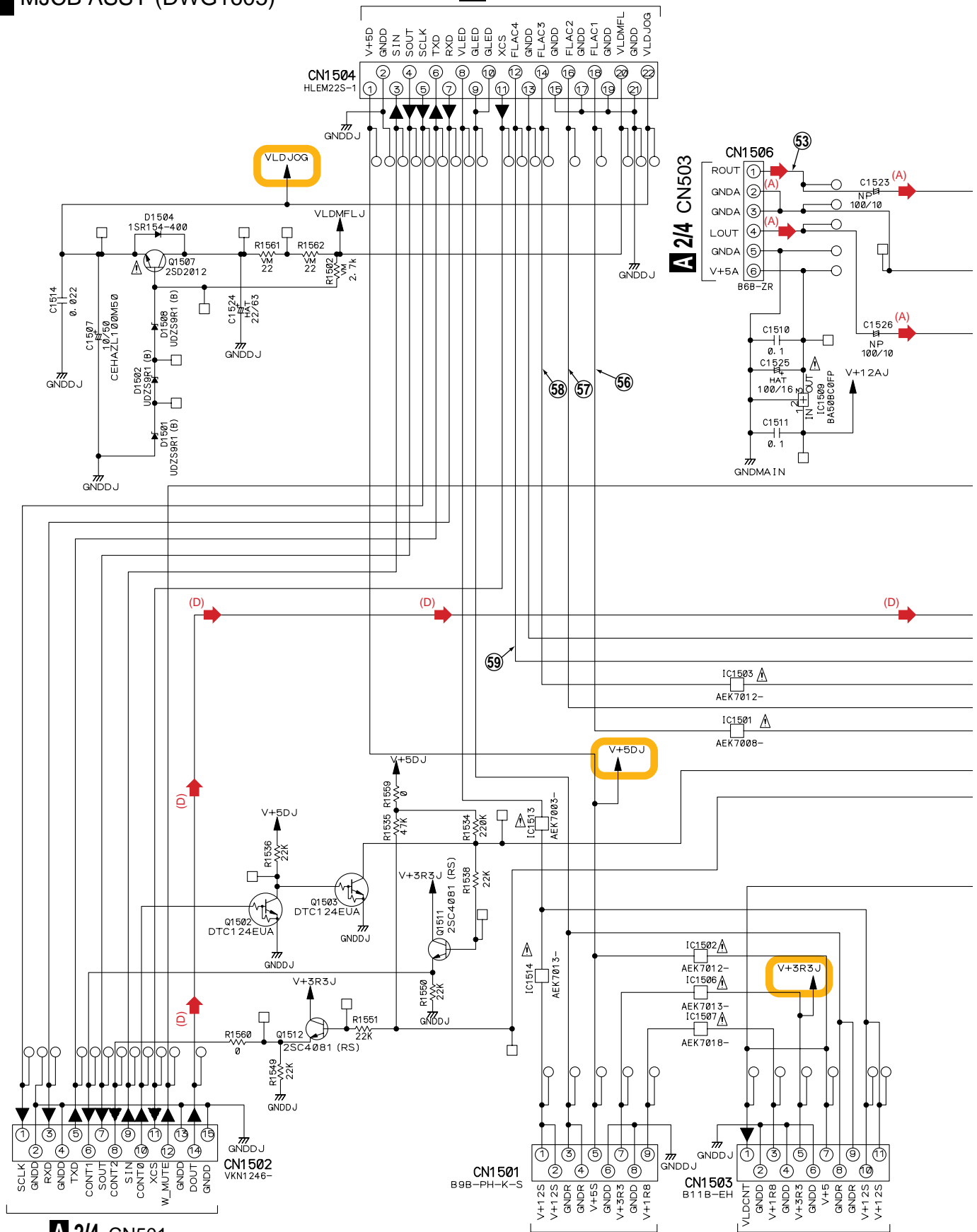
B

C

D

E

F



A 2/4 CN501

A 2/4 CN502

M CN201

F

1

2

3

4

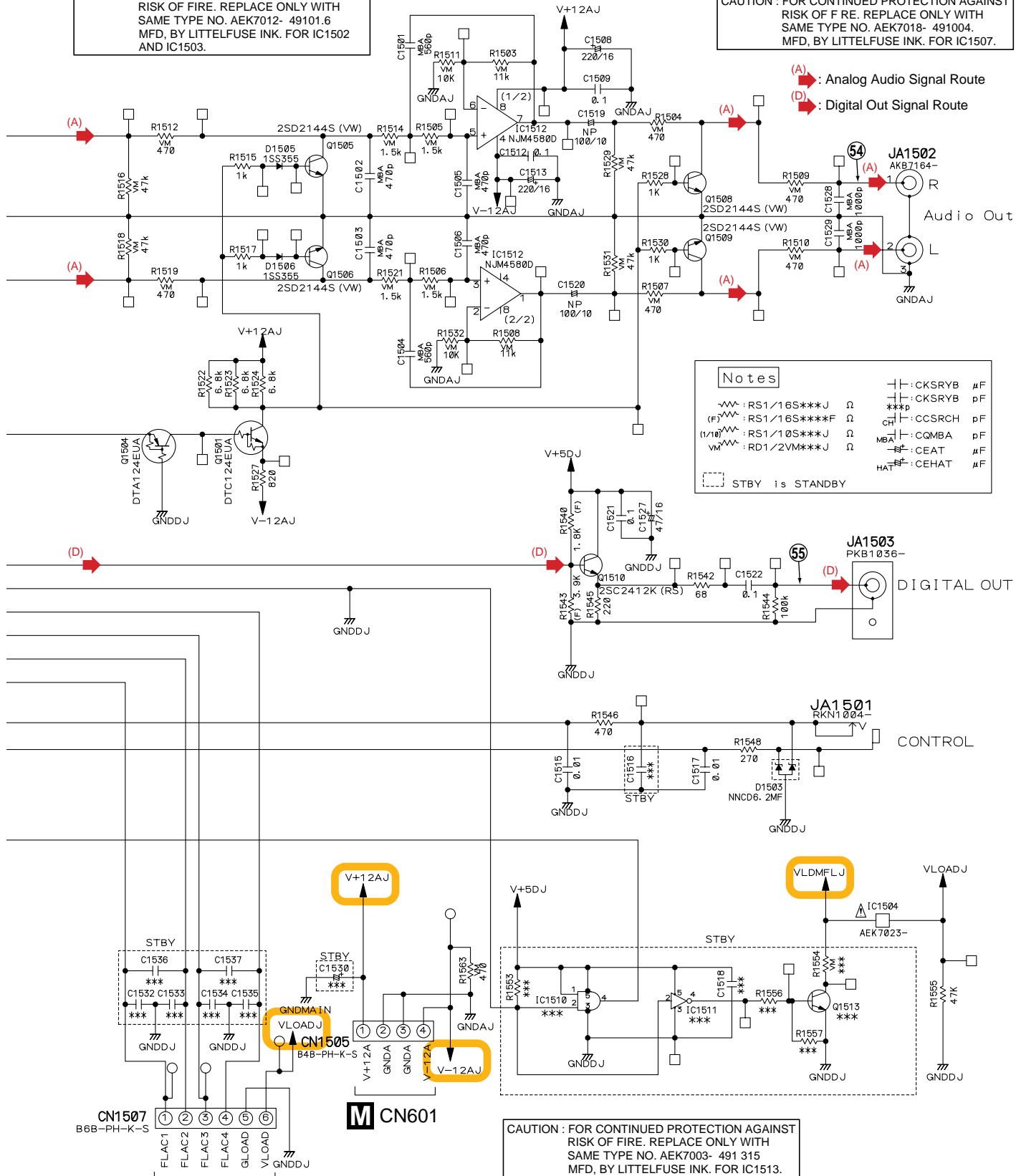
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7008- 491 800 MFD, BY LITTELFUSE INK. FOR IC1501.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7023- 491 200 MFD, BY LITTELFUSE INK. FOR IC1504.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7013- 4910002. MFD, BY LITTELFUSE INK. FOR IC1506 AND IC1514.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7012- 49101.6 MFD, BY LITTELFUSE INK. FOR IC1502 AND IC1503.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7018- 4910004. MFD, BY LITTELFUSE INK. FOR IC1507.



(A) : Analog Audio Signal Route
 (D) : Digital Out Signal Route

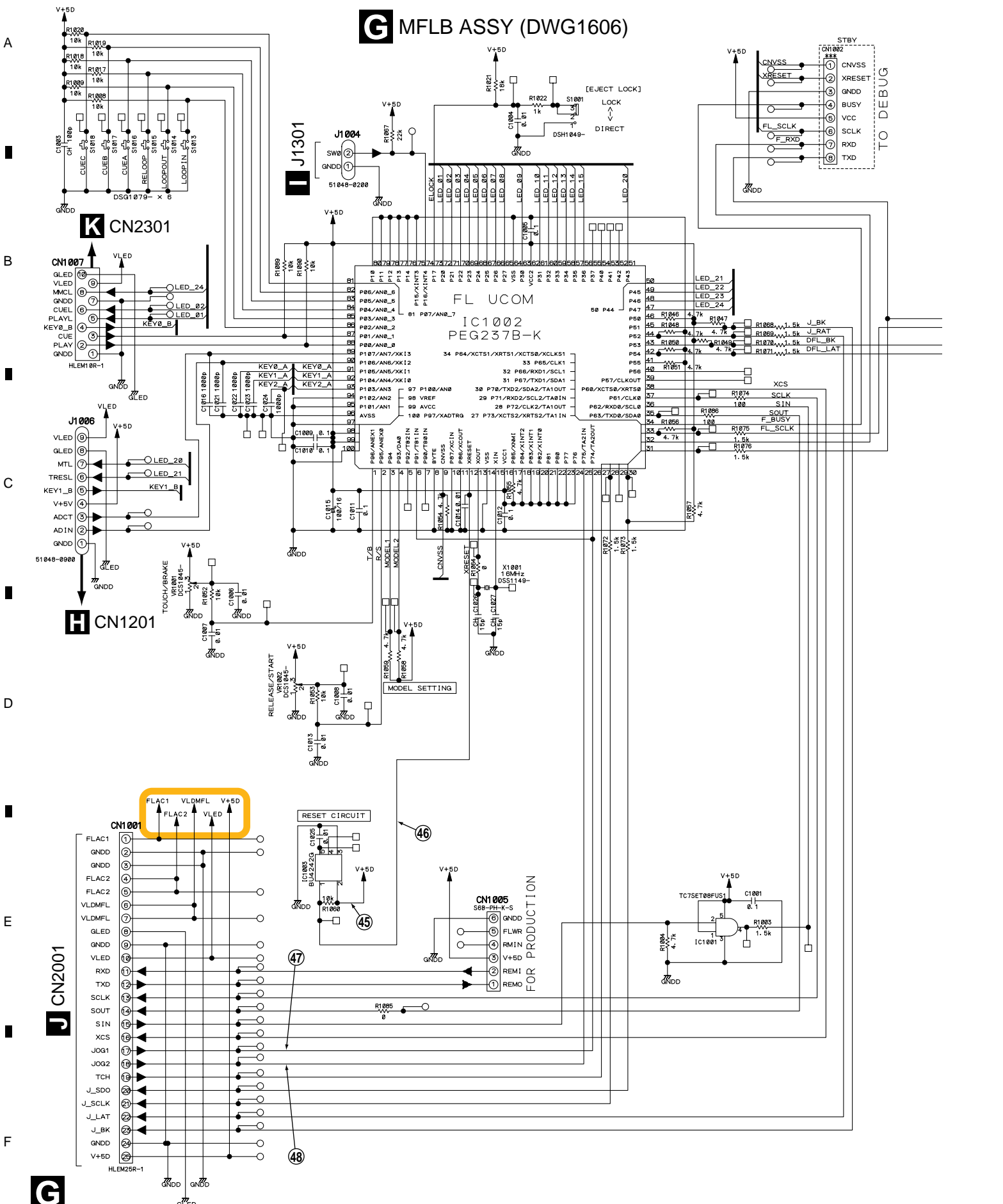
| Notes | |
|-----------------|----|
| | Ω |
| | Ω |
| | Ω |
| | Ω |
| | μF |
| | pF |
| | pF |
| | pF |
| | μF |
| | μF |
| STBY is STANDBY | |

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7003- 491 315 MFD, BY LITTELFUSE INK. FOR IC1513.

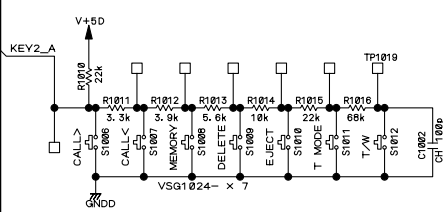
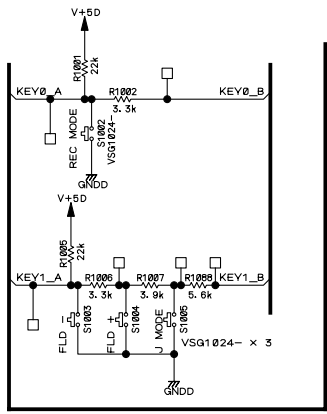
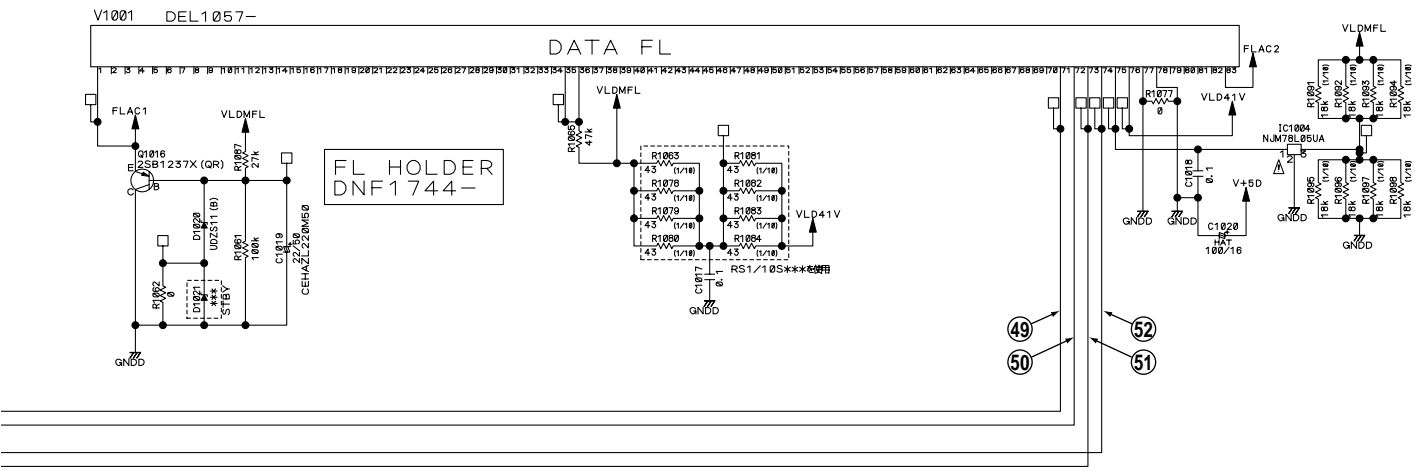
A
B
C
D
E
F

3.9 MFLB ASSY

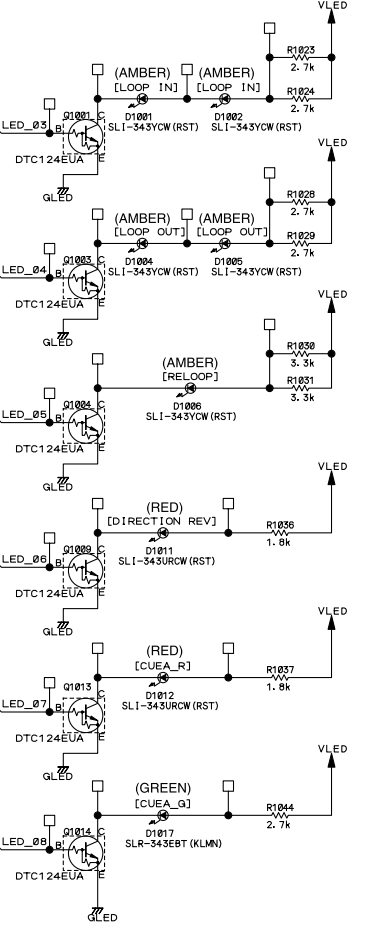
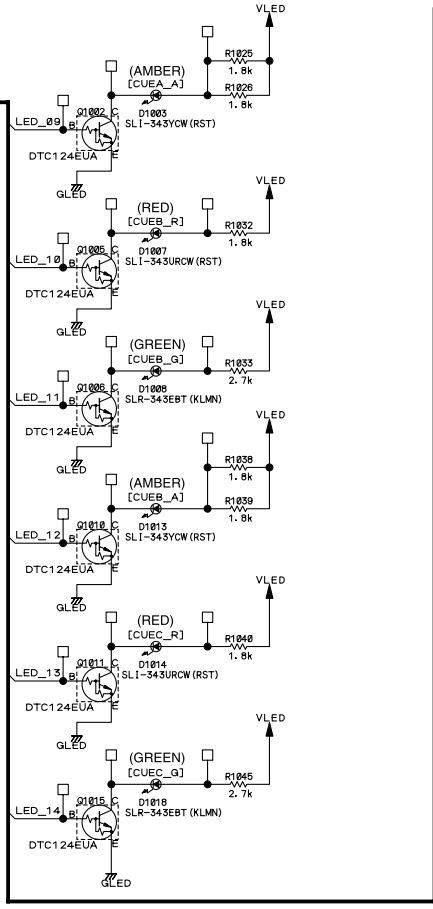
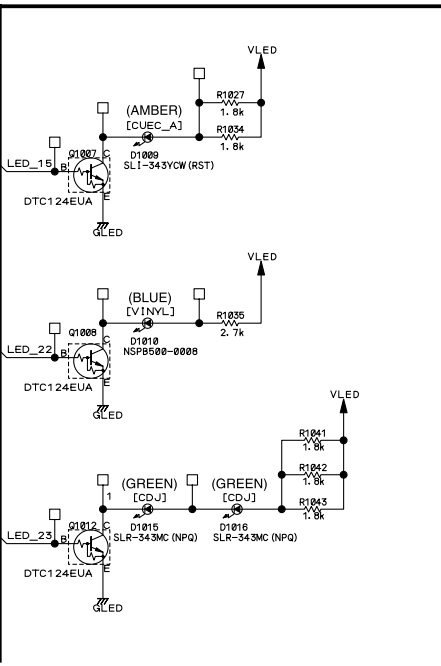
MFLB ASSY (DWG1606)



A
B
C
D
E
F



| Notes | |
|------------------------|--------------------|
| — — CKSRYB #F | — — CKSRYB #F |
| — — RS1/16S***J Ω | — — RS1/16S***F #F |
| (F) — — RS1/16S***F Ω | — — CCSRCH #F |
| (10) — — RS1/10S***J Ω | — — CMBA #F |
| — — RD1/2VM***J Ω | — — CEAT #F |
| — — CEHAT #F | — — CEHAT #F |
| — — STBY 1s STANDBY | |

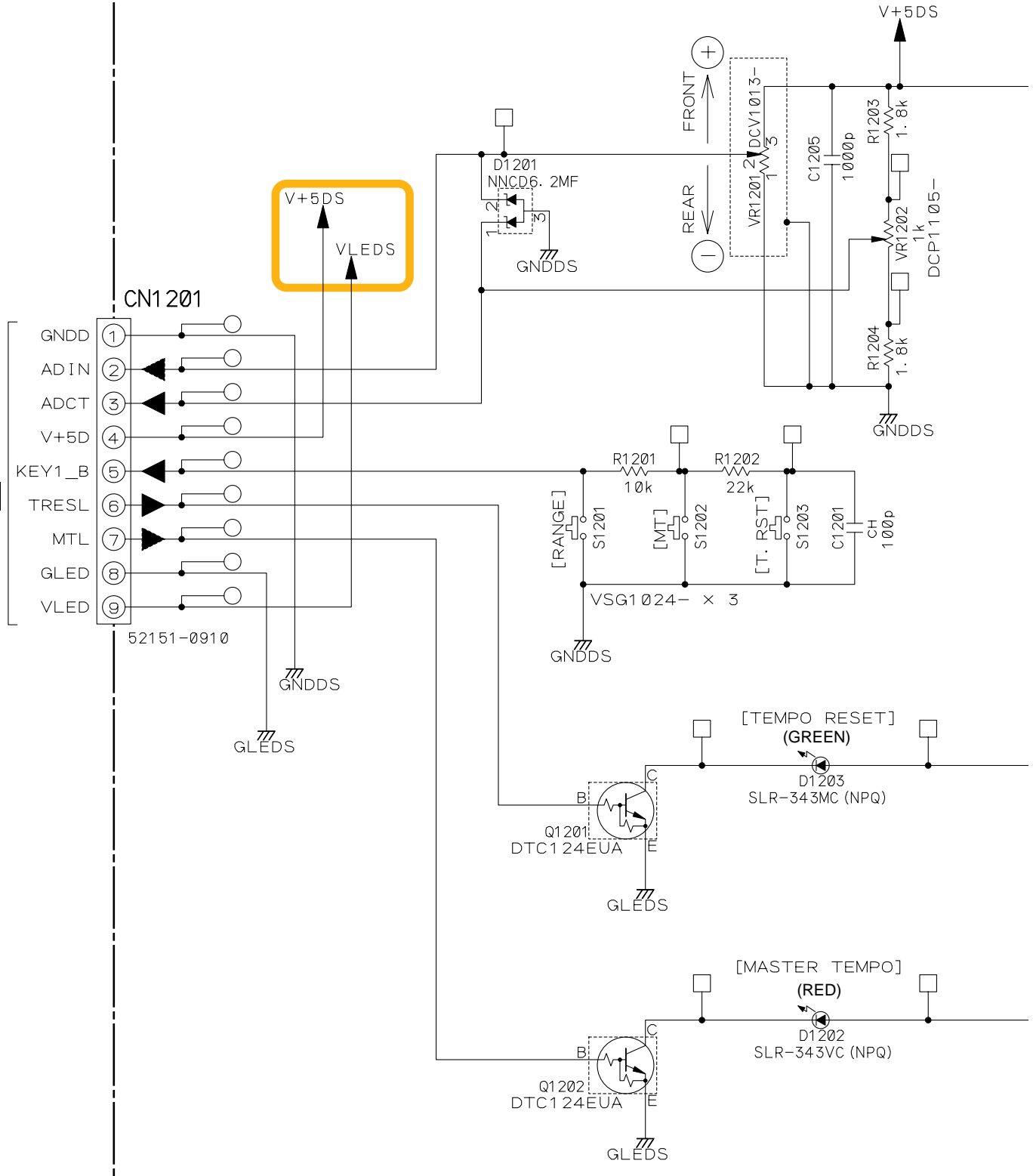


3.10 SLDB and RSWB ASSYS

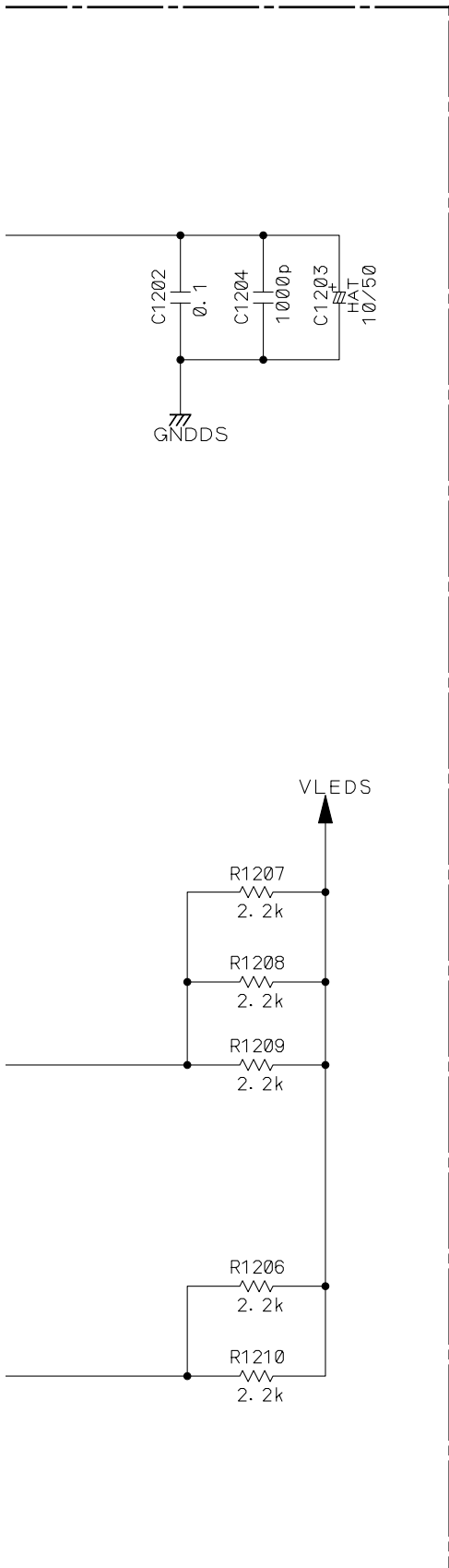
A
B
C
D
E
F

G J1006

H SLDB ASSY (DWS1367)



H

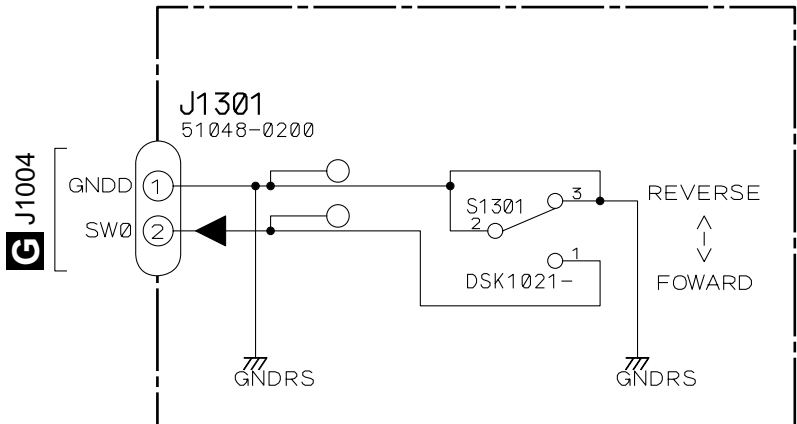


Notes

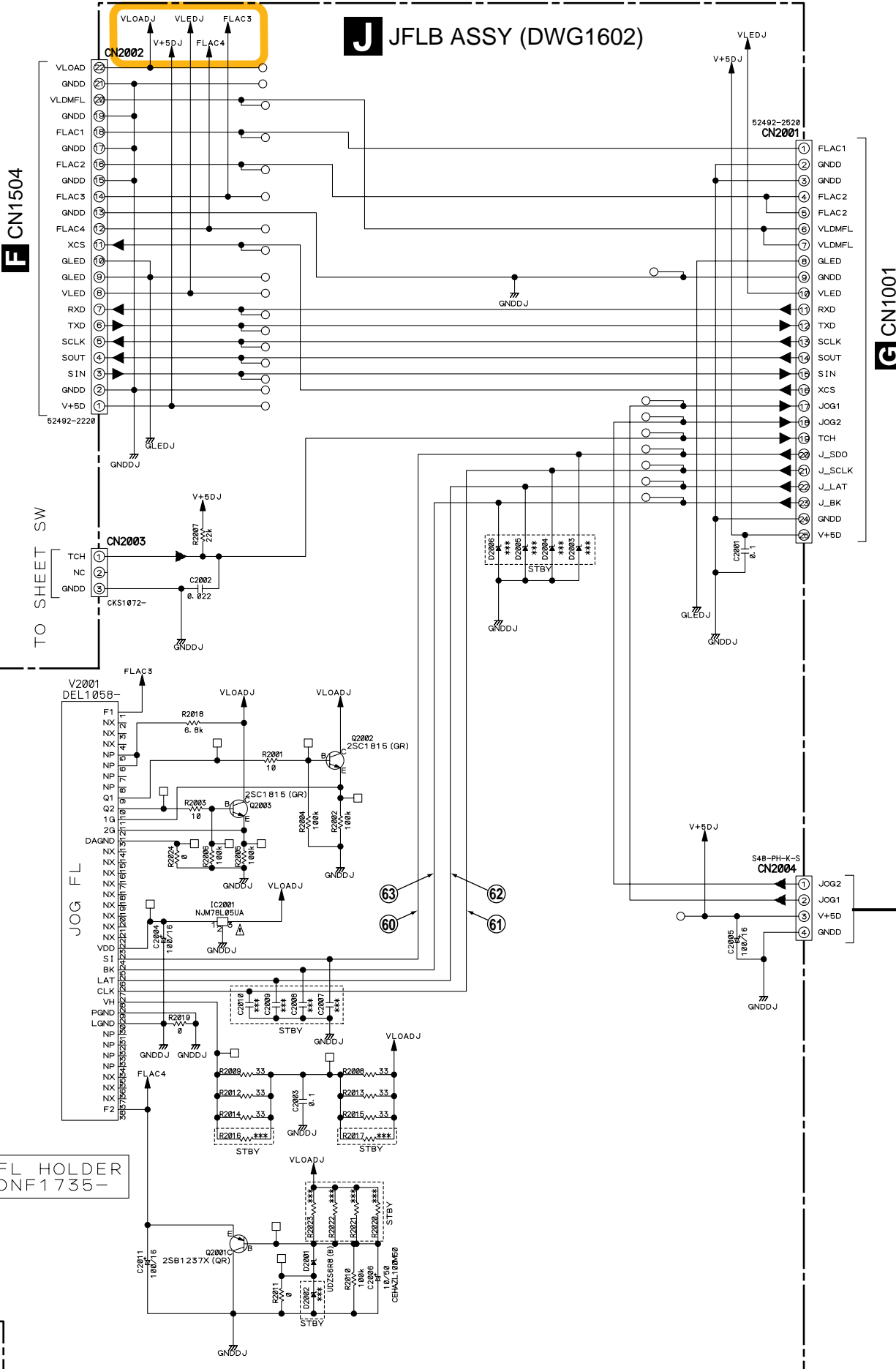
| | | | | | | |
|--------|---------------|---|--|----------|----------|----|
| | : RS1/16S***J | Ω | | : CKSRYB | μF | |
| (F) | : RS1/16S***F | Ω | | : CKSRYB | pF | |
| (1/10) | : RS1/10S***J | Ω | | : ***p | | |
| VM | : RD1/2VM***J | Ω | | : CH | : CCSRCH | pF |
| | | | | : MBA | : CQ MBA | pF |
| | | | | : CEAT | | μF |
| | | | | : HAT | : CEHAT | μF |

STBY is STANDBY

RSWB ASSY (DWS1368)



3.11 JFLB, KSWB and JOGB ASSYS



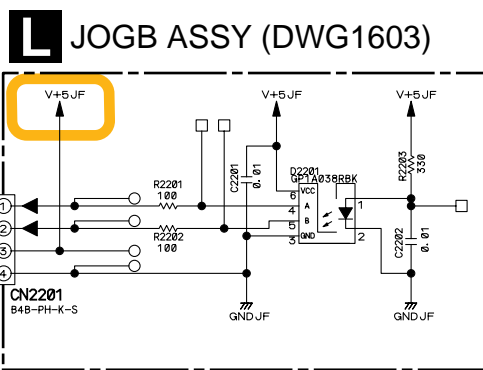
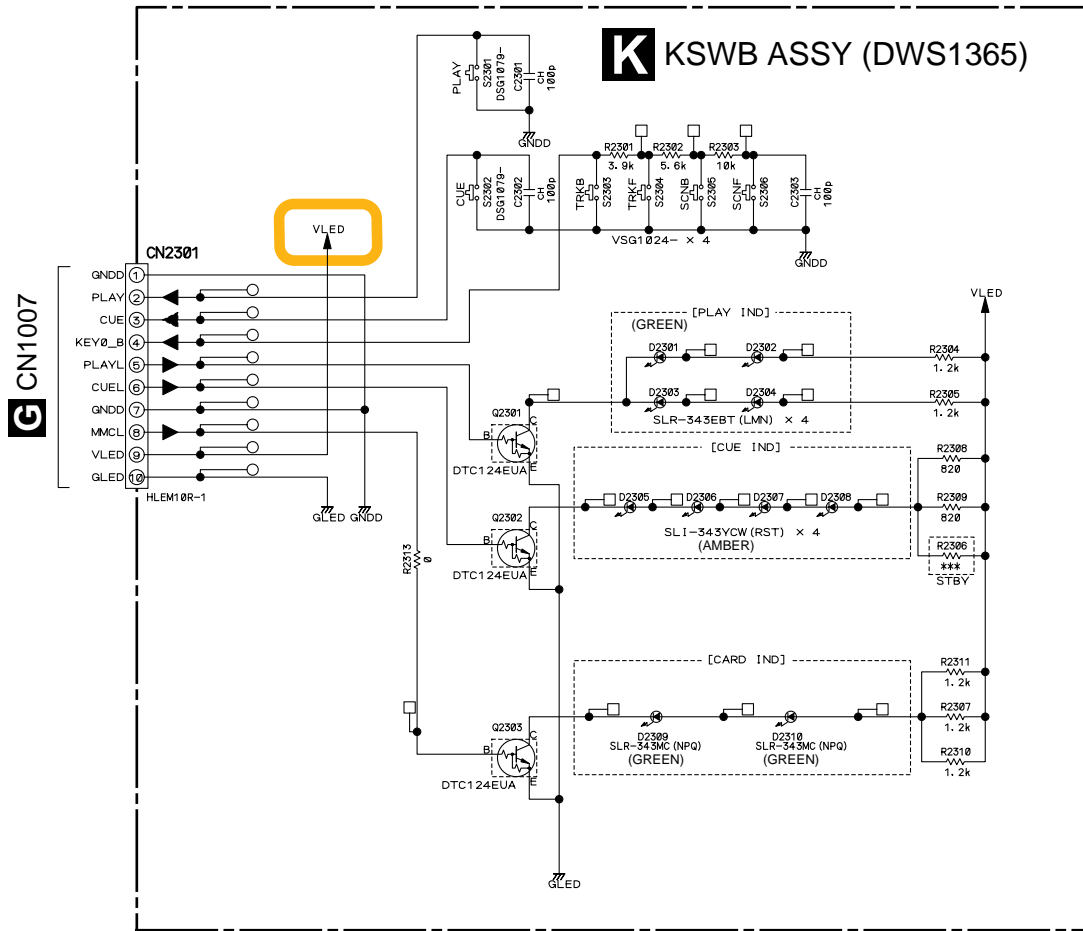
J JFLB ASSY (DWG1602)

F CN1504

G CN1001

FL HOLDER
DNF1735-

CDJ-1000MK3

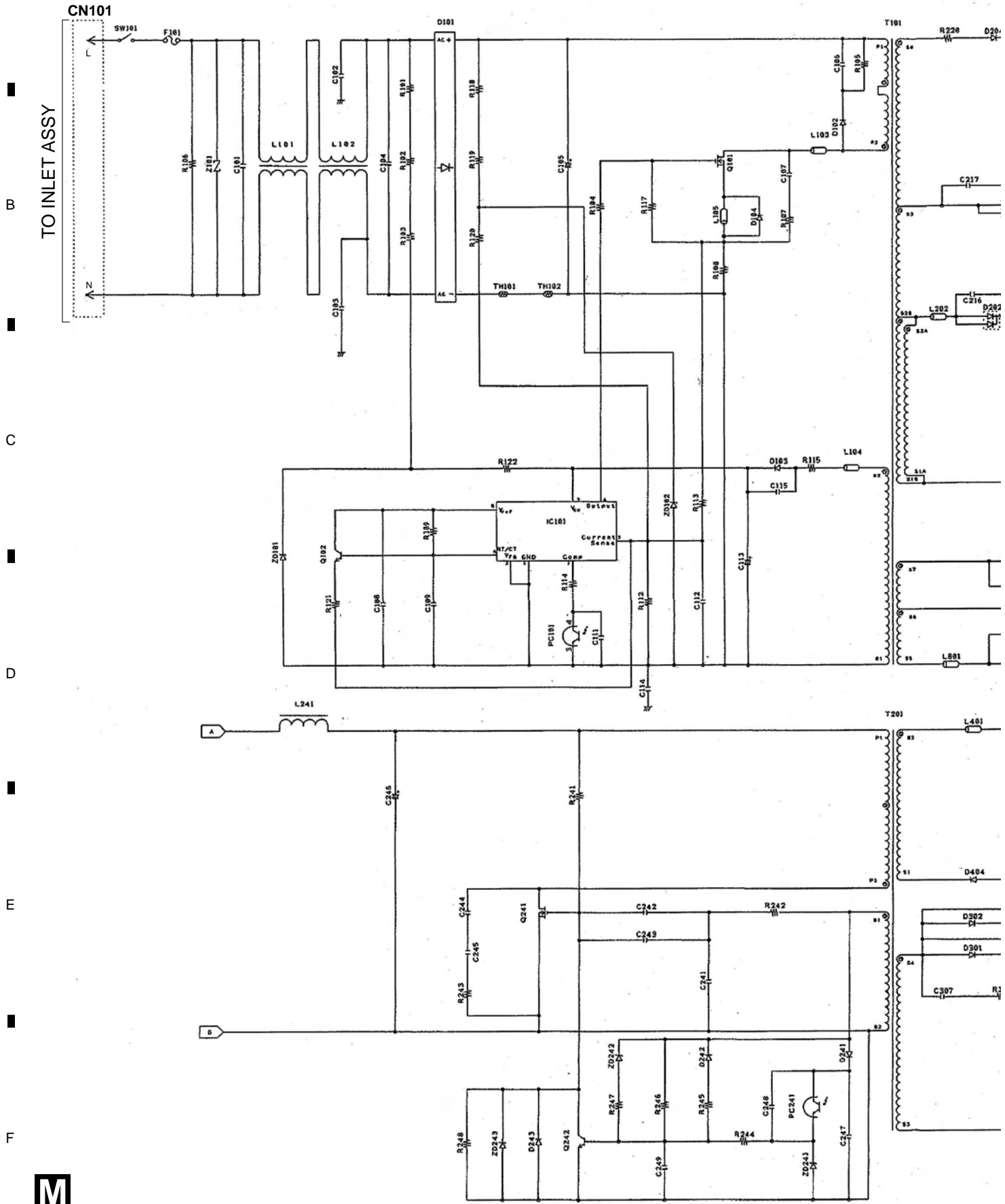


| Notes | |
|-------|-----------------|
| | RS1/16S***J Ω |
| | CKSRYB #F |
| | CCSRCH pF |
| | CEHAT #F |
| | STBY is STANDBY |

3.12 SW POWER SUPPLY ASSY

1 2 3 4

A M SW POWER SUPPLY ASSY (DWR1409)



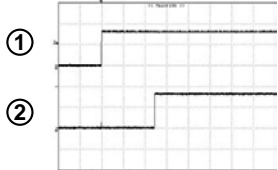
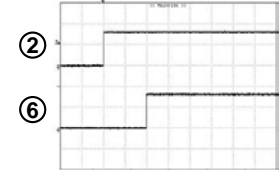
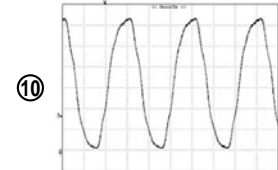
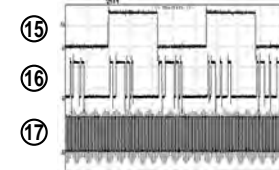
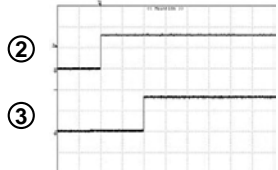
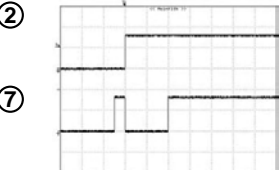
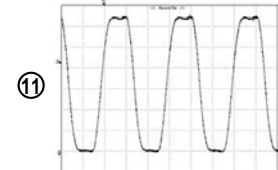

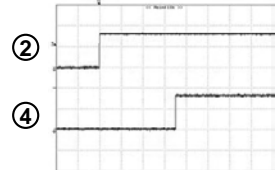
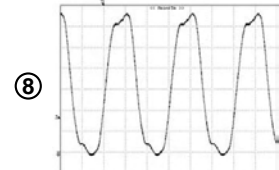
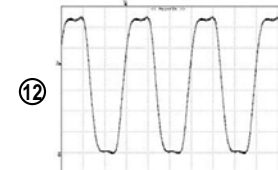
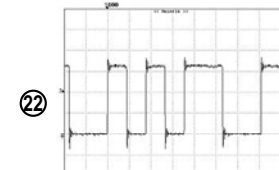
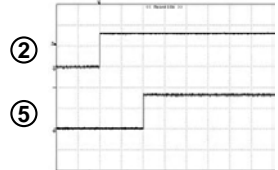
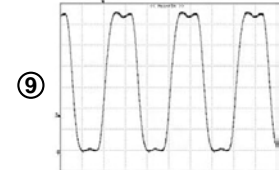
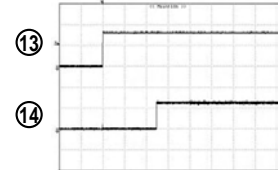

1 2 3 4



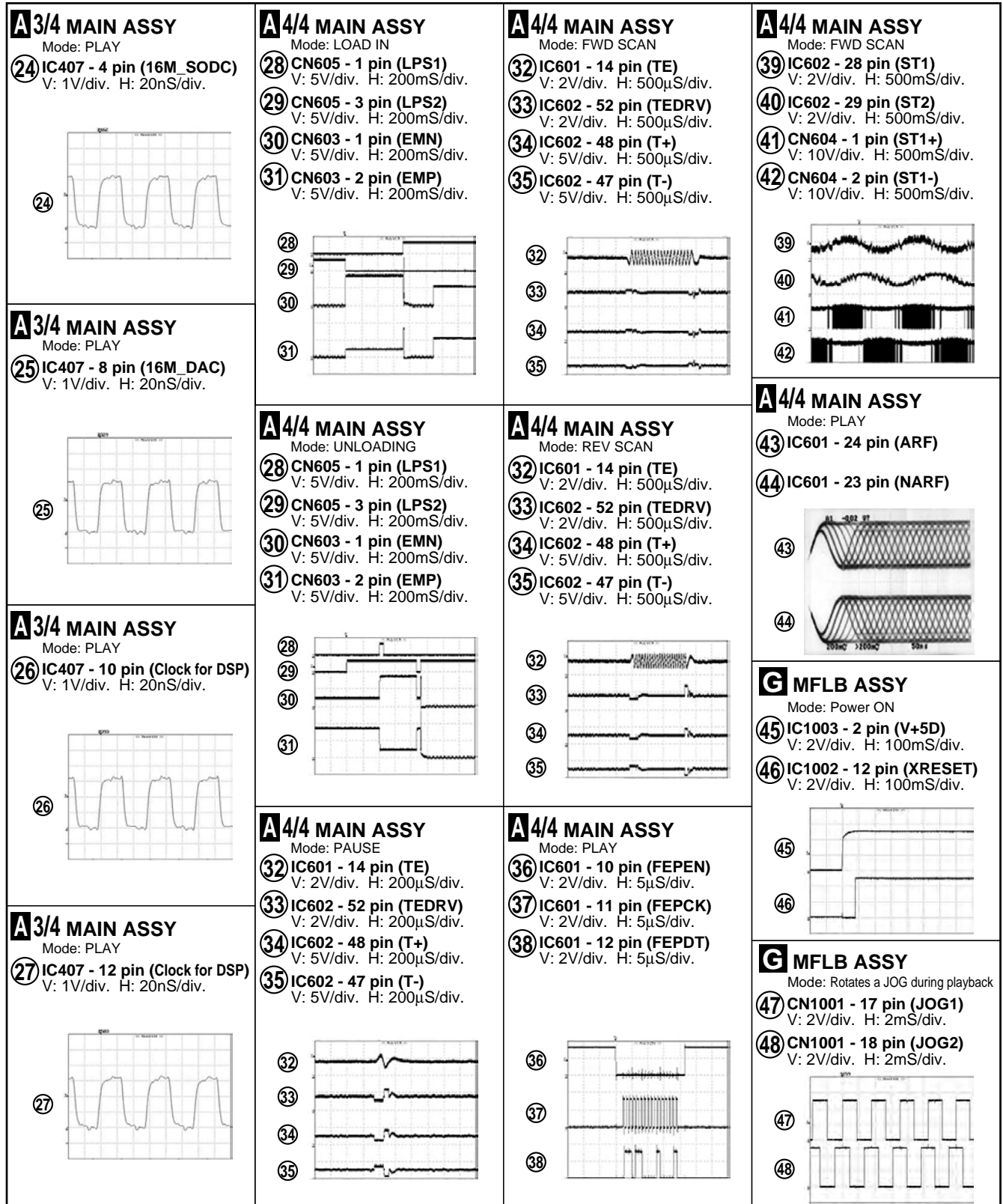
3.13 WAVEFORMS

WAVEFORMS

Note : The encircled numbers denote measuring point in the schematic diagram and pcb diagram.

| | | | |
|---|--|--|--|
| <p>A 1/4 MAIN ASSY Mode: Power ON</p> <p>① IC104 - 2 pin (V+3R3) V: 2V/div. H: 100mS/div.</p> <p>② IC104 - 1 pin (RSTCPU) V: 2V/div. H: 100mS/div.</p>  | <p>A 1/4 MAIN ASSY Mode: Power ON</p> <p>② IC104 - 1 pin (RSTCPU) V: 2V/div. H: 500mS/div.</p> <p>⑥ IC114 - 6 pin (MOT_XRST) V: 2V/div. H: 500mS/div.</p>  | <p>A 1/4 MAIN ASSY Mode: PLAY</p> <p>⑩ IC107 - 6 pin (SH_66M) V: 0.5V/div. H: 5nS/div.</p>  | <p>A 2/4 MAIN ASSY Mode: PLAY (1kHz, 0dB)</p> <p>⑮ IC501 - 1 pin (MO_LRCK) V: 2V/div. H: 5μS/div.</p> <p>⑯ IC501 - 2 pin (MO_DATA) V: 2V/div. H: 5μS/div.</p> <p>⑰ IC501 - 3 pin (MO_BCK) V: 2V/div. H: 5μS/div.</p>  |
| <p>A 1/4 MAIN ASSY Mode: Power ON</p> <p>② IC104 - 1 pin (RSTCPU) V: 2V/div. H: 500mS/div.</p> <p>③ IC114 - 10 pin (DMA_XRST) V: 2V/div. H: 500mS/div.</p>  | <p>A 1/4 MAIN ASSY Mode: Power ON</p> <p>② IC104 - 1 pin (RSTCPU) V: 2V/div. H: 500mS/div.</p> <p>⑦ IC114 - 12 pin (ATARST) V: 2V/div. H: 500mS/div.</p>  | <p>A 1/4 MAIN ASSY Mode: PLAY</p> <p>⑪ IC107 - 8 pin (SDRAM_66M) V: 0.5V/div. H: 5nS/div.</p>  | <p>A 2/4 MAIN ASSY Mode: PLAY</p> <p>⑱ CN501 - 1 pin (SCLK) V: 5V/div. H: 20μS/div.</p> <p>⑲ CN501 - 7 pin (SOUT) V: 5V/div. H: 20μS/div.</p> <p>⑳ CN501 - 9 pin (SIN) V: 5V/div. H: 20μS/div.</p> <p>㉑ CN501 - 11 pin (XCS) V: 5V/div. H: 20μS/div.</p>  |
| <p>A 1/4 MAIN ASSY Mode: Power ON</p> <p>② IC104 - 1 pin (RSTCPU) V: 2V/div. H: 500mS/div.</p> <p>④ IC114 - 8 pin (CARD_XRST) V: 2V/div. H: 500mS/div.</p>  | <p>A 1/4 MAIN ASSY Mode: PLAY</p> <p>⑧ IC107 - 3 pin (66MHz CLOCK) V: 0.5V/div. H: 5nS/div.</p>  | <p>A 1/4 MAIN ASSY Mode: PLAY</p> <p>⑫ IC107 - 10 pin (FPGA_66M) V: 0.5V/div. H: 5nS/div.</p>  | <p>A 3/4 MAIN ASSY Mode: PLAY</p> <p>㉒ IC402 - 27 pin (MO_DOUT) V: 1V/div. H: 200nS/div.</p>  |
| <p>A 1/4 MAIN ASSY Mode: Power ON</p> <p>② IC104 - 1 pin (RSTCPU) V: 2V/div. H: 500mS/div.</p> <p>⑤ IC114 - 4 pin (TI_XRST) V: 2V/div. H: 500mS/div.</p>  | <p>A 1/4 MAIN ASSY Mode: PLAY</p> <p>⑨ IC107 - 4 pin (CARD_66M) V: 0.5V/div. H: 5nS/div.</p>  | <p>A 2/4 MAIN ASSY Mode: Power ON</p> <p>⑬ IC302 - 8 pin (V+3R3) V: 2V/div. H: 500mS/div.</p> <p>⑭ IC301 - 71 pin (FPGA_DONE) V: 2V/div. H: 500mS/div.</p>  | <p>A 3/4 MAIN ASSY Mode: PLAY</p> <p>㉓ IC407 - 5 pin (16MHz CLOCK) V: 1V/div. H: 20nS/div.</p>  |

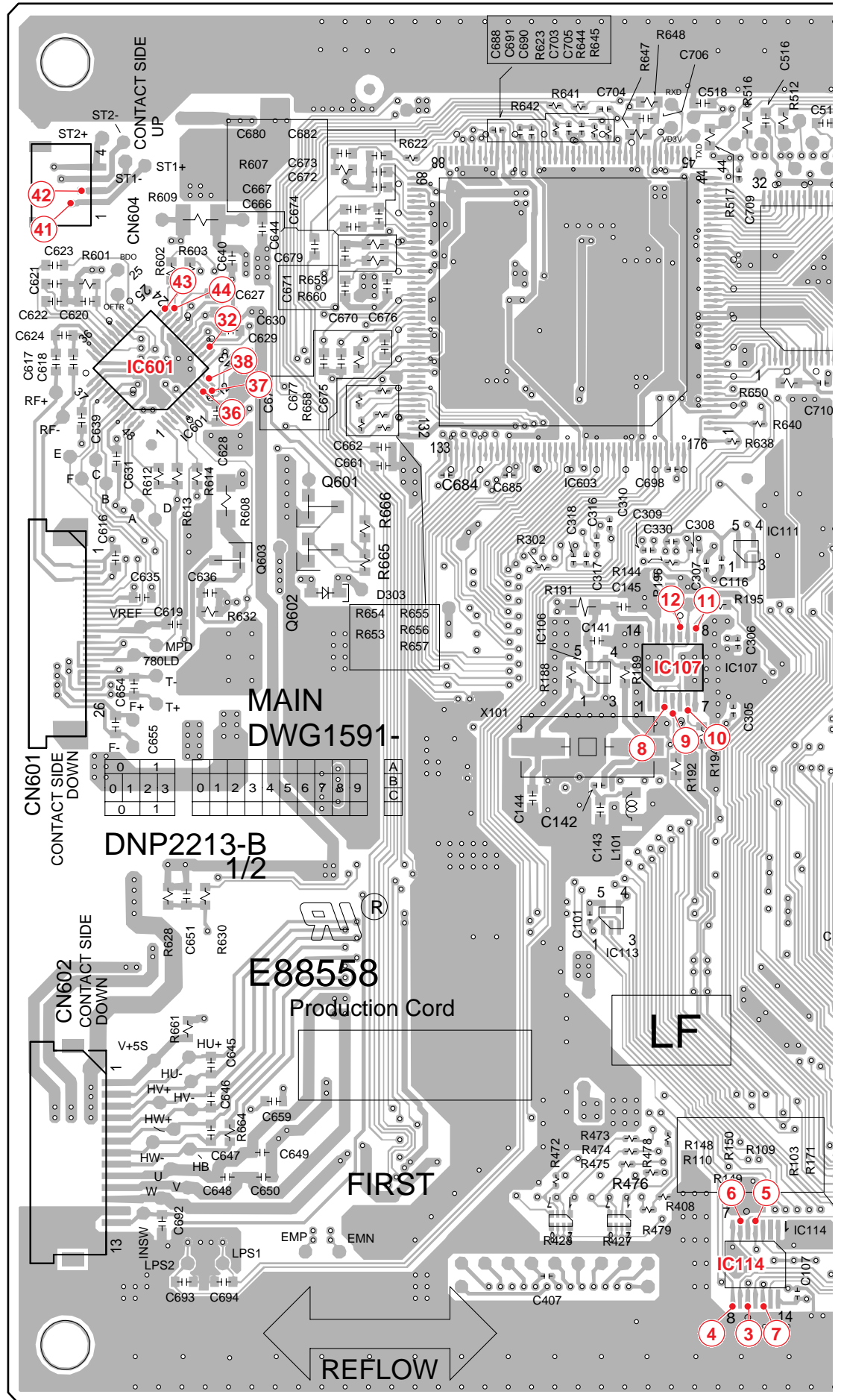
Note : The encircled numbers denote measuring point in the schematic diagram and pcb diagram.



SIDE A

A MAIN ASSY

A
B
C
D
E
F

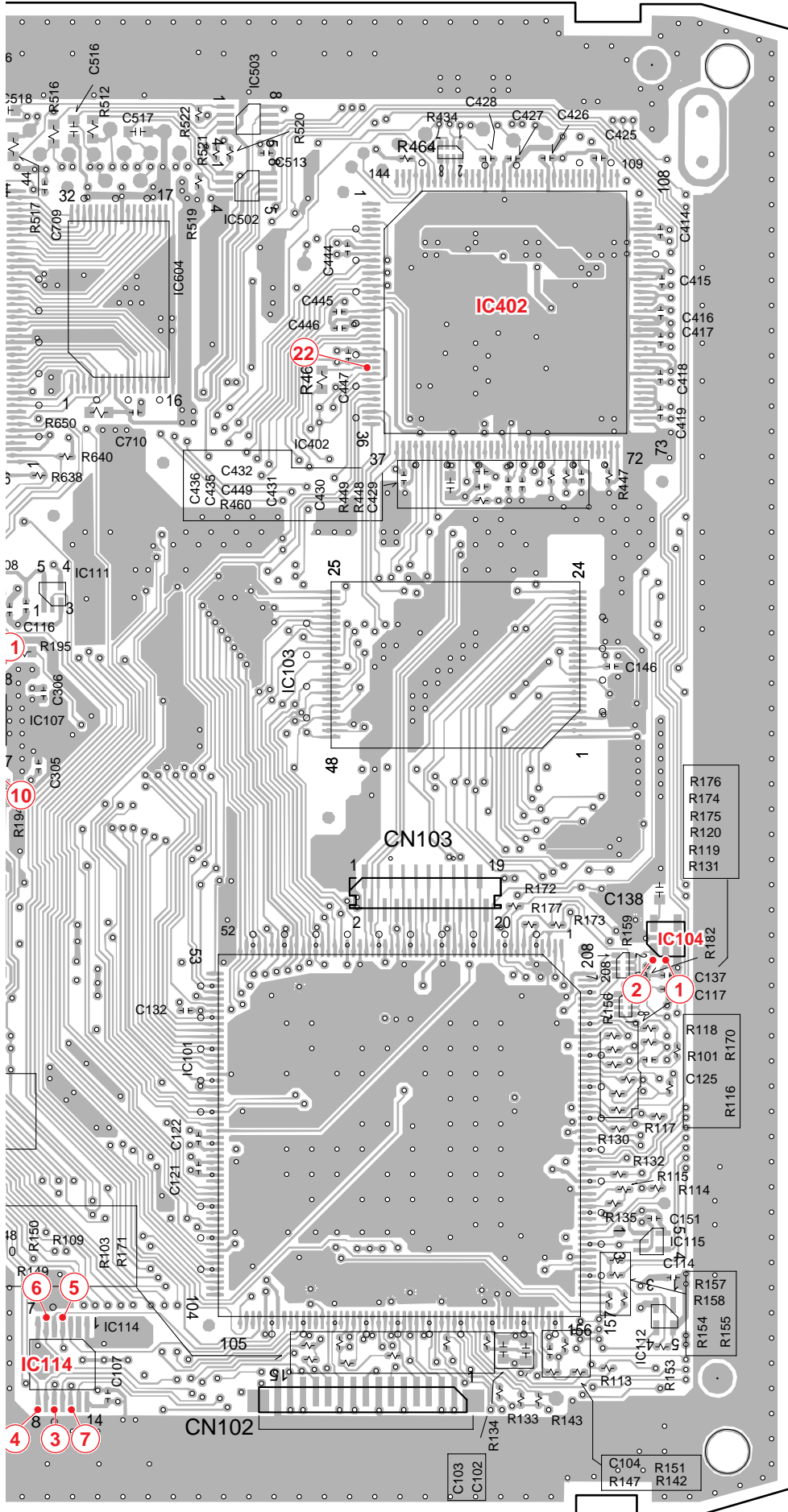


| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

A

SIDE A

A
B
C
D
E
F



Note :
The encircled numbers denote measuring point.



SIDE B

A
MAIN ASSY

A

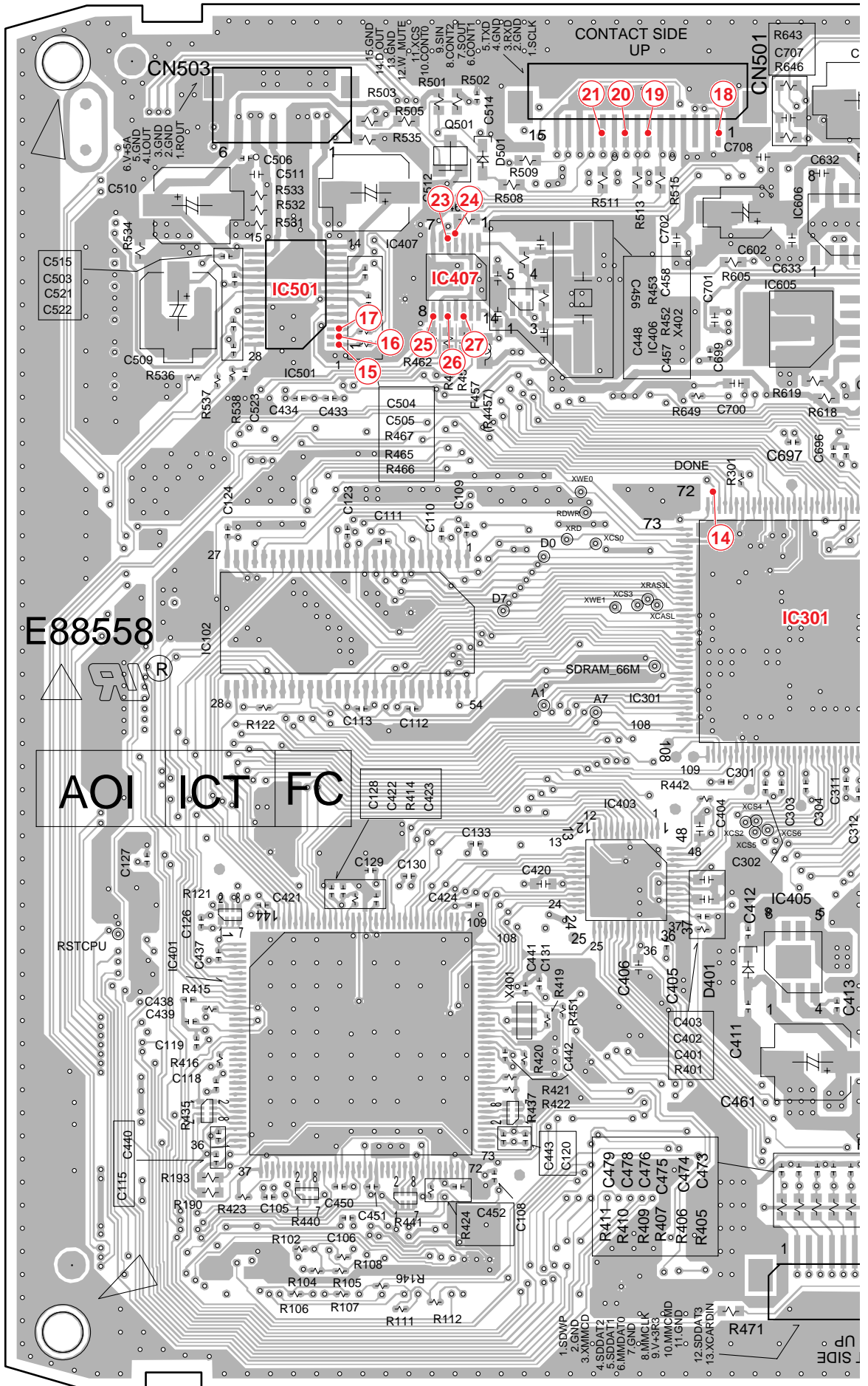
B

C

D

E

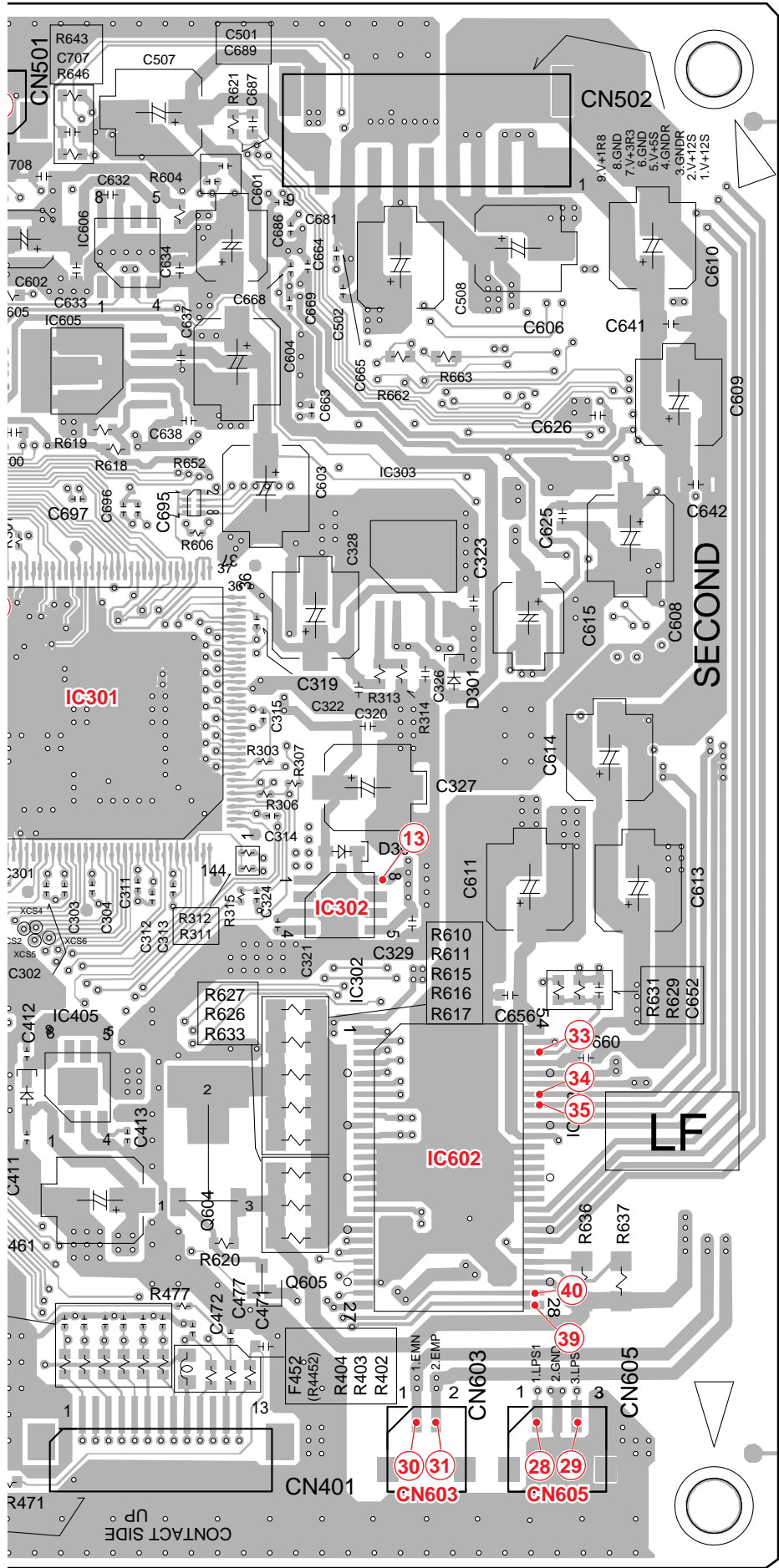
F



A

SIDE B

A
B
C
D
E
F



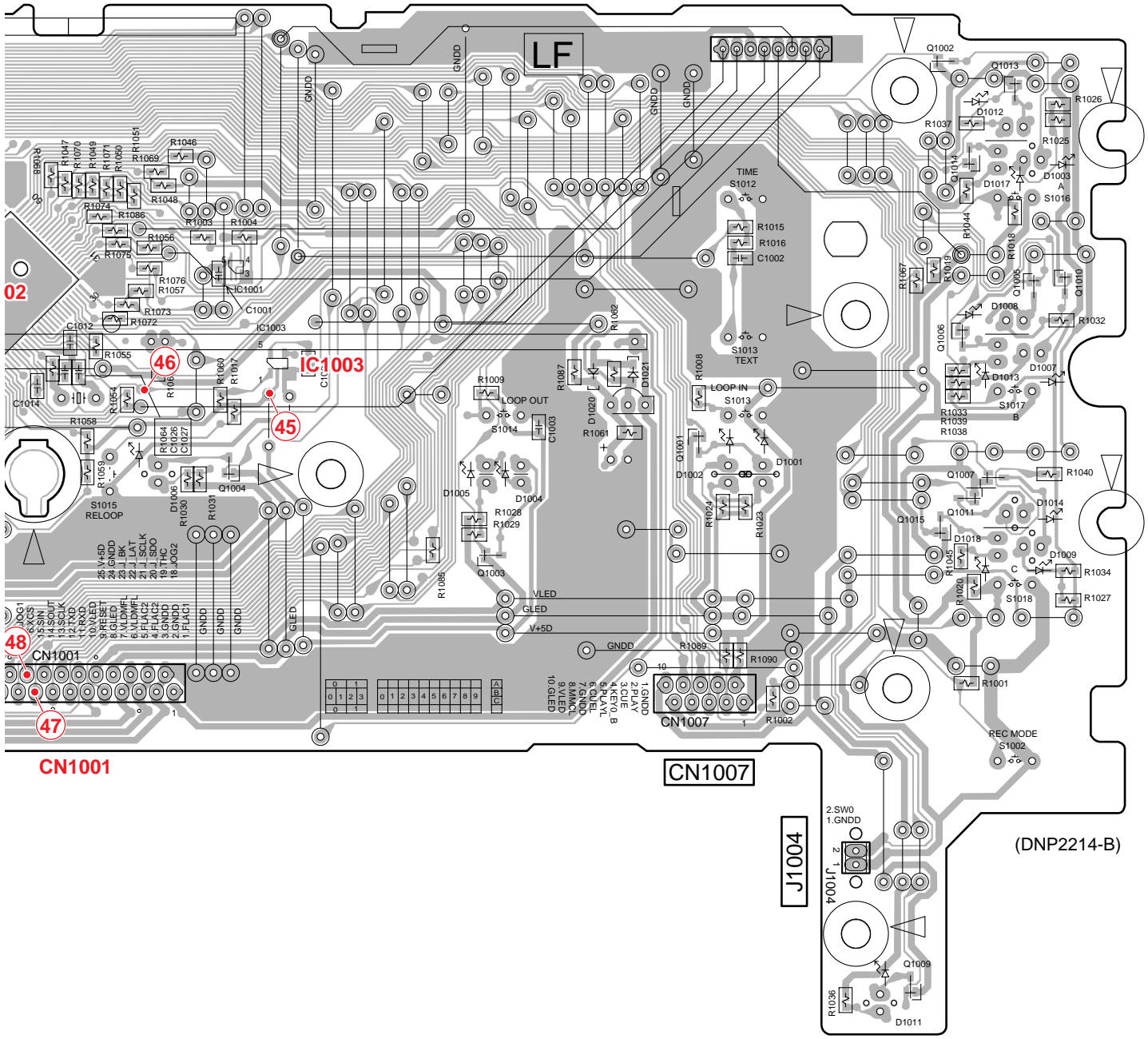
Note :
The encircled numbers denote measuring point.

(DNP2213-B)

A

SIDE B

A
B
C
D
E
F
G



02

48

47

46

45

CN1001

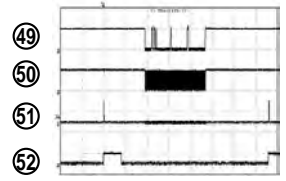
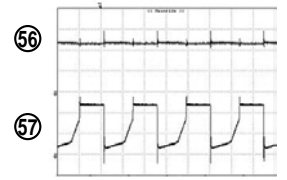
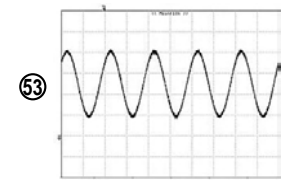
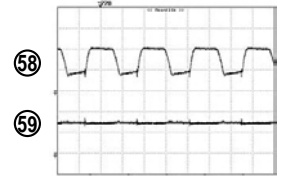
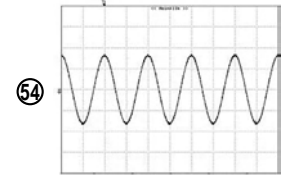
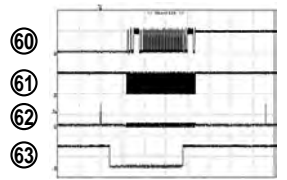
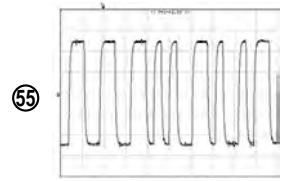
CN1007

J1004

(DNP2214-B)

Note : The encircled numbers denote measuring point in the schematic diagram and pcb diagram.

A

| | |
|--|--|
| <p>G MFLB ASSY Mode: PLAY</p> <p>④9 V1001 - 71 pin (SI) V: 5V/div. H: 50μS/div.</p> <p>⑤0 V1001 - 72 pin (CLK) V: 5V/div. H: 50μS/div.</p> <p>⑤1 V1001 - 73 pin (LAT) V: 10V/div. H: 50μS/div.</p> <p>⑤2 V1001 - 74 pin (BK) V: 10V/div. H: 50μS/div.</p>  | <p>F MJCB ASSY Mode: PLAY</p> <p>⑤6 CN1504 - 18 pin (FLAC1) V: 5V/div. H: 5μS/div.</p> <p>⑤7 CN1504 - 16 pin (FLAC2) V: 5V/div. H: 5μS/div.</p>  |
| <p>F MJCB ASSY Mode: PLAY (1kHz, 0dB)</p> <p>⑤3 CN1506 - 1 pin (ROUT) V: 1V/div. H: 500μS/div.</p>  | <p>F MJCB ASSY Mode: PLAY</p> <p>⑤8 CN1504 - 14 pin (FLAC3) V: 5V/div. H: 5μS/div.</p> <p>⑤9 CN1504 - 12 pin (FLAC4) V: 5V/div. H: 5μS/div.</p>  |
| <p>F MJCB ASSY Mode: PLAY (1kHz, 0dB)</p> <p>⑤4 JA1502 - 1 pin (ROUT) V: 2V/div. H: 500μS/div.</p>  | <p>J JFLB ASSY Mode: PLAY</p> <p>⑥0 V2001 - 24 pin (SI) V: 5V/div. H: 100μS/div.</p> <p>⑥1 V2001 - 27 pin (CLK) V: 5V/div. H: 100μS/div.</p> <p>⑥2 V2001 - 26 pin (LAT) V: 5V/div. H: 100μS/div.</p> <p>⑥3 V2001 - 25 pin (BK) V: 5V/div. H: 100μS/div.</p>  |
| <p>F MJCB ASSY Mode: PLAY Measurement condition: Termination nothing. In case of 75 Ω termination, level becomes half (0.5V).</p> <p>⑤5 JA1503 (DOUT) V: 0.2V/div. H: 500nS/div.</p>  | |

F

3.14 VOLTAGES

VOLTAGES

Voltage measurement condition: CD playback, CDJ, MASTER TEMPO: OFF , SLIDER: 0%

A 1/4 MAIN ASSY

• Remove CN401

IC101 (HD6417709SF133B-D)

| Pin | Voltage (V) | Pin | Voltage (V) | Pin | Voltage (V) |
|-----|--------------|-----|----------------|-----|----------------|
| 1 | 3 31 | 72 | 0.085 to 0.095 | 143 | 0.011 |
| 2 | 3 30 | 73 | 0.34 to 0.37 | 144 | 3 31 |
| 3 | 1.754 | 74 | 0.52 to 0.85 | 145 | 1.751 |
| 4 | 0.010 | 75 | 0.43 to 0.56 | 146 | 0.816 |
| 5 | 1.754 | 76 | 0.9 to 1.4 | 147 | 0.009 |
| 6 | 0.009 | 77 | 0.17 to 0.41 | 148 | 0.008 |
| 7 | 0.008 | 78 | 0.42 to 0.61 | 149 | 0.008 |
| 8 | 3 31 | 79 | 0.008 | 150 | 1.751 |
| 9 | 3 31 | 80 | 0.015 to 0.018 | 151 | 0.011 to 0.035 |
| 10 | 3 31 | 81 | 1.749 | 152 | 0.009 |
| 11 | 3 31 | 82 | 0.02 to 0.08 | 153 | 0.009 |
| 12 | 2.370 | 83 | 0.008 | 154 | 1.751 |
| 13 | 3 31 | 84 | 0.13 to 0.16 | 155 | 0.009 |
| 14 | 3 31 | 85 | 3 31 | 156 | 0.009 |
| 15 | 3 31 | 86 | 0.008 | 157 | 0.009 |
| 16 | 3 31 | 87 | 2.63 to 2.66 | 158 | 0.008 |
| 17 | 3 31 | 88 | 3 31 | 159 | 0.015 |
| 18 | 3 31 | 89 | 1.7 to 2.2 | 160 | 3.26 |
| 19 | 0.008 | 90 | 2.20 to 2.30 | 161 | 0.009 |
| 20 | 3 31 | 91 | 3 31 | 162 | 1.675 |
| 21 | 3 31 | 92 | 0.055 to 0.110 | 163 | 3 31 |
| 22 | 3 31 | 93 | 3.22 to 3.25 | 164 | 0.010 |
| 23 | 3 31 | 94 | 3 31 | 165 | 3 31 |
| 24 | 3 31 | 95 | 0.008 | 166 | 0.15 to 0.26 |
| 25 | 3 31 | 96 | 3 31 | 167 | 0.009 |
| 26 | 3 31 | 97 | 3 31 | 168 | 3 31 |
| 27 | 0.008 | 98 | 3.0 to 3.3 | 169 | 0.008 |
| 28 | 3 31 | 99 | 1.9 to 2.1 | 170 | 0.008 |
| 29 | 1.752 | 100 | 3 31 | 171 | 3 31 |
| 30 | 0.011 | 101 | 0.033 to 0.080 | 172 | 3 31 |
| 31 | 0.011 | 102 | 3 31 | 173 | 0.008 |
| 32 | 0.011 | 103 | 3 30 | 174 | 3 31 |
| 33 | 0.008 | 104 | 3 30 | 175 | 1.751 |
| 34 | 0.63 to 0.84 | 105 | 3 31 | 176 | 3 31 |
| 35 | 3 31 | 106 | 0.11 to 0.15 | 177 | 3 31 |
| 36 | 1.57 to 1.65 | 107 | 3 31 | 178 | 0.009 |
| 37 | 1.53 | 108 | 2.657 | 179 | 3.27 |
| 38 | 0.64 to 1.2 | 109 | 0.009 | 180 | 3 30 |
| 39 | 0.5 to 1.2 | 110 | 0.009 | 181 | 0.008 |
| 40 | 1.27 to 1.31 | 111 | 3 31 | 182 | 0.008 |
| 41 | 1.3 to 1.4 | 112 | 0.010 | 183 | 3 31 |
| 42 | 1.39 to 1.41 | 113 | 3 31 | 184 | 0.008 |
| 43 | 1.39 to 1.43 | 114 | 0.010 | 185 | 3 31 |
| 44 | 1.40 to 1.54 | 115 | 3.28 | 186 | 3 31 |
| 45 | 0.008 | 116 | 3 31 | 187 | 0.011 to 0.017 |
| 46 | 1.50 to 1.52 | 117 | 3 31 | 188 | 3 31 |
| 47 | 3 31 | 118 | 3 31 | 189 | 3 31 |
| 48 | 0.95 to 1.10 | 119 | 3 31 | 190 | 0.008 |
| 49 | 1.1 to 1.3 | 120 | 3 31 | 191 | 3 31 |
| 50 | 1.43 | 121 | 3 31 | 192 | 0.015 to 0.055 |
| 51 | 1.47 to 1.53 | 122 | 3 31 | 193 | 3 31 |
| 52 | 1.38 to 1.40 | 123 | 3 30 | 194 | 3 31 |
| 53 | 0.53 to 0.75 | 124 | 3 31 | 195 | 0.008 |
| 54 | 1.80 to 1.85 | 125 | 2.540 | 196 | 3 31 |
| 55 | 1.69 to 1.74 | 126 | 3 31 | 197 | 0.008 |
| 56 | 1.67 to 1.73 | 127 | 3 31 | 198 | 0.009 |
| 57 | 0.008 | 128 | 3 31 | 199 | 3 31 |
| 58 | 1.42 to 1.63 | 129 | 3 31 | 200 | 0.009 |
| 59 | 3 31 | 130 | 0.008 to 0.030 | 201 | 0.035 to 0.150 |
| 60 | 1.38 to 1.53 | 131 | 0.016 | 202 | 3 31 |
| 61 | 1.33 to 1.42 | 132 | 0.009 | 203 | 3 31 |
| 62 | 0.90 to 0.96 | 133 | 3 31 | 204 | 3 31 |
| 63 | 0.85 to 0.91 | 134 | 1.751 | 205 | 3 31 |
| 64 | 0.85 to 1.16 | 135 | 3 31 | 206 | 3 31 |
| 65 | 1.0 to 1.4 | 136 | 3 31 | 207 | 3 31 |
| 66 | 0.55 to 0.74 | 137 | 3 31 | 208 | 0.008 |
| 67 | 0.82 to 0.93 | 138 | 3 31 | | |
| 68 | 0.10 to 0.45 | 139 | 3 31 | | |
| 69 | 0.008 | 140 | 3 31 | | |
| 70 | 0.22 to 0.86 | 141 | 3 31 | | |
| 71 | 3 31 | 142 | 3 31 | | |

IC102

(K4S281632F-UC75)

| Pin | Voltage (V) |
|-----|----------------|
| 1 | 3 31 |
| 2 | 1.45 to 1.49 |
| 3 | 3 31 |
| 4 | 1.30 to 1.35 |
| 5 | 1.46 to 1.49 |
| 6 | 0.008 |
| 7 | 1.19 to 1.22 |
| 8 | 1.0 to 1.2 |
| 9 | 3 31 |
| 10 | 1.2 to 1.6 |
| 11 | 1.48 to 1.52 |
| 12 | 0.008 |
| 13 | 0.5 to 0.9 |
| 14 | 3 31 |
| 15 | 2.19 to 2.24 |
| 16 | 3.19 to 3.24 |
| 17 | 2.65 to 2.68 |
| 18 | 3.09 to 3.12 |
| 19 | 2.01 to 2.03 |
| 20 | 0.1 to 0.4 |
| 21 | 0.1 to 0.4 |
| 22 | 0.55 to 0.71 |
| 23 | 1.80 to 1.82 |
| 24 | 1.69 to 1.73 |
| 25 | 1.71 to 1.73 |
| 26 | 1.52 to 1.63 |
| 27 | 3 31 |
| 28 | 0.008 |
| 29 | 1.43 to 1.53 |
| 30 | 1.39 to 1.50 |
| 31 | 0.90 to 0.94 |
| 32 | 0.85 to 0.92 |
| 33 | 0.84 to 0.95 |
| 34 | 0.9 to 1.2 |
| 35 | 0.80 to 0.87 |
| 36 | 0.085 to 0.093 |
| 37 | 3 31 |
| 38 | 1.642 |
| 39 | 2.20 to 2.23 |
| 40 | 0.14 to 0.20 |
| 41 | 0.009 |
| 42 | 1.42 to 1.45 |
| 43 | 3 31 |
| 44 | 1.35 to 1.43 |
| 45 | 1.32 to 1.38 |
| 46 | 0.009 |
| 47 | 1.02 to 1.13 |
| 48 | 0.9 to 1.1 |
| 49 | 3 31 |
| 50 | 1.54 to 1.56 |
| 51 | 1.64 to 1.69 |
| 52 | 0.009 |
| 53 | 0.65 to 0.80 |
| 54 | 0.009 |

• Remove CN401

IC103 (DYW1752)

| Pin | Voltage (V) |
|-----|----------------|
| 1 | 0.34 to 0.40 |
| 2 | 0.085 to 0.092 |
| 3 | 0.3 to 0.9 |
| 4 | 0.10 to 0.42 |
| 5 | 0.78 to 0.87 |
| 6 | 0.54 to 0.67 |
| 7 | 1.03 to 1.08 |
| 8 | 0.85 to 0.91 |
| 9 | 0.16 to 0.42 |
| 10 | 0.43 to 0.52 |
| 11 | 2.22 |
| 12 | 3.31 |
| 13 | 0.11 to 0.16 |
| 14 | 0.11 to 0.14 |
| 15 | 3.31 |
| 16 | 0.7 to 1.0 |
| 17 | 0.44 to 0.52 |
| 18 | 0.85 to 0.92 |
| 19 | 0.9 to 1.2 |
| 20 | 1.3 to 1.5 |
| 21 | 1.37 to 1.53 |
| 22 | 1.48 to 1.62 |
| 23 | 1.52 to 1.73 |
| 24 | 1.71 to 1.80 |
| 25 | 1.80 to 1.86 |
| 26 | 3.31 |
| 27 | 0.008 |
| 28 | 3.31 |
| 29 | 1.45 to 1.46 |
| 30 | 1.41 to 1.48 |
| 31 | 1.31 to 1.36 |
| 32 | 1.34 to 1.42 |
| 33 | 1.44 to 1.47 |
| 34 | 0.6 to 1.4 |
| 35 | 1.17 to 1.26 |
| 36 | 1.01 to 1.12 |
| 37 | 3.31 |
| 38 | 0.99 to 1.05 |
| 39 | 0.91 to 1.07 |
| 40 | 1.50 to 1.53 |
| 41 | 1.43 to 1.58 |
| 42 | 1.48 to 1.50 |
| 43 | 1.53 to 1.65 |
| 44 | 0.52 to 0.81 |
| 45 | 0.66 to 0.94 |
| 46 | 0.009 |
| 47 | 3.31 |
| 48 | 0.53 to 0.70 |

A 2/4 MAIN ASSY

IC301 (XC3S50-4TQG144C)

| Pin | Voltage (V) | Pin | Voltage (V) |
|-----|----------------|-----|--------------|
| 1 | 0.009 | 73 | 0.115 |
| 2 | 3 31 | 74 | 2.22 to 2.24 |
| 3 | 3 31 | 75 | 3 31 |
| 4 | 3 31 | 76 | 3.245 |
| 5 | 3 31 | 77 | 3.1 to 3.3 |
| 6 | 0. | 78 | 1.44 to 1.47 |
| 7 | 3 31 | 79 | 1.28 to 1.37 |
| 8 | 3 31 | 80 | 1.43 to 1.46 |
| 9 | 0.009 | 81 | 0.008 |
| 10 | 3 31 | 82 | 1.16 to 1.29 |
| 11 | 3 31 | 83 | 0.97 to 1.20 |
| 12 | 1.74 to 1.79 | 84 | 1.53 to 1.55 |
| 13 | 1.87 to 1.91 | 85 | 1.47 to 1.51 |
| 14 | 1.66 to 1.77 | 86 | 0.5 to 0.8 |
| 15 | 3 31 | 87 | 2.21 to 2.30 |
| 16 | 0.009 | 88 | 0.008 |
| 17 | 3 31 | 89 | 1.39 to 1.41 |
| 18 | 0 to 0.6 | 90 | 1.32 to 1.39 |
| 19 | 3 31 | 91 | 3 31 |
| 20 | 0 to 0.6 | 92 | 1.27 to 1.32 |
| 21 | 0 to 0.5 | 93 | 1.00 to 1.09 |
| 22 | 0.009 | 94 | 0.008 |
| 23 | 0 to 0.6 | 95 | 0.9 to 1.0 |
| 24 | 0 to 0.6 | 96 | 1.52 to 1.53 |
| 25 | 0 to 0.6 | 97 | 1.59 to 1.61 |
| 26 | 0 to 0.6 | 98 | 0.63 to 0.82 |
| 27 | 0 to 0.6 | 99 | 1.80 to 1.85 |
| 28 | 0 to 0.5 | 100 | 1.69 to 1.76 |
| 29 | 0.009 | 101 | 0.008 |
| 30 | 0 to 3.31 | 102 | 1.58 to 1.73 |
| 31 | 0 to 0.6 | 103 | 1.47 to 1.63 |
| 32 | 0 to 0.6 | 104 | 1.37 to 1.53 |
| 33 | 0 to 0.6 | 105 | 1.35 to 1.50 |
| 34 | 3 31 | 106 | 3 31 |
| 35 | 0 to 3.31 | 107 | 0.90 to 0.94 |
| 36 | 0 to 0.6 | 108 | 0.85 to 0.93 |
| 37 | 2.520 | 109 | 2.517 |
| 38 | 2.520 | 110 | 2.517 |
| 39 | 2.520 | 111 | 2.517 |
| 40 | 0 to 0.6 | 112 | 0.55 to 0.72 |
| 41 | 1.2 to 1.6 | 113 | 0.95 to 1.10 |
| 42 | 0.009 | 114 | 0.009 |
| 43 | 3 31 | 115 | 3 31 |
| 44 | 2.368 | 116 | 0.84 to 0.87 |
| 45 | 0.009 | 117 | 0.008 |
| 46 | 2.5 to 2.9 | 118 | 0.009 |
| 47 | 3.166 | 119 | 3 31 |
| 48 | 2.520 | 120 | 2.522 |
| 49 | 1.211 | 121 | 1.211 |
| 50 | 0.009 | 122 | 3 31 |
| 51 | 0.044 to 0.046 | 123 | 3 31 |
| 52 | 0.044 to 0.046 | 124 | 2.63 to 2.67 |
| 53 | 0.044 to 0.046 | 125 | 0.006 |
| 54 | 3 31 | 126 | 3 31 |
| 55 | 0.044 to 0.046 | 127 | 3.1 to 3.3 |
| 56 | 1.651 | 128 | 3 31 |
| 57 | 0.010 | 129 | 3 31 |
| 58 | 3 31 | 130 | 3 31 |
| 59 | 1.663 | 131 | 0 to 0.2 |
| 60 | 1.907 | 132 | 3.28 |
| 61 | 1.211 | 133 | 1.210 |
| 62 | 2.521 | 134 | 2.520 |
| 63 | 3.202 | 135 | 3 30 |
| 64 | 0.009 | 136 | 0.008 |
| 65 | 0.010 | 137 | 2.3 to 3.3 |
| 66 | 3 31 | 138 | 3 31 |
| 67 | 0.009 | 139 | 0.009 |
| 68 | 3 31 | 140 | 0.346 |
| 69 | 3 31 | 141 | 3 31 |
| 70 | 3 31 | 142 | 0.009 |
| 71 | 2.540 | 143 | 2.521 |
| 72 | 2.522 | 144 | 2.518 |

IC501 (PE8001A)

| Pin | Voltage (V) |
|-----|--------------|
| 1 | 1.661 |
| 2 | 0.77 to 0.85 |
| 3 | 1.650 |
| 4 | 2.254 |
| 5 | 1.634 |
| 6 | 2.814 |
| 7 | 0.009 |
| 8 | 5.00 |
| 9 | 5.00 |
| 10 | 0.001 |
| 11 | 2.504 |
| 12 | 0 to 0.08 |
| 13 | 2.517 |
| 14 | 0.009 |
| 15 | 5.00 |
| 16 | 2.514 |
| 17 | 0 to 0.03 |
| 18 | 2.503 |
| 19 | 0 |
| 20 | 5.00 |
| 21 | 4.99 |
| 22 | 5.00 |
| 23 | 0.010 |
| 24 | 4.98 |
| 25 | 4.98 |
| 26 | 0.011 |
| 27 | 3.31 |
| 28 | 3.31 |

A

A 3/4 MAIN ASSY

IC401 (TMS320DA150PGE16D)

| Pin | Voltage (V) | Pin | Voltage (V) |
|-----|--------------|-----|--------------|
| 1 | 0 008 | 73 | 1.43 to 1.51 |
| 2 | 0 008 | 74 | 1.47 to 1.50 |
| 3 | 0 008 | 75 | 3.31 |
| 4 | 3.31 | 76 | 0 009 |
| 5 | 0.55 to 0.65 | 77 | 0 009 |
| 6 | 0 009 | 78 | 0 009 |
| 7 | 0.82 to 1.10 | 79 | 3.31 |
| 8 | 3.30 | 80 | 2 807 |
| 9 | 0 007 | 81 | 3.31 |
| 10 | 0 007 | 82 | 0 011 |
| 11 | 0 008 | 83 | 3.31 |
| 12 | 1 626 | 84 | 3.31 |
| 13 | 3.31 | 85 | 1.23 to 1.25 |
| 14 | 0 008 | 86 | 3.30 |
| 15 | 0 008 | 87 | 0 012 |
| 16 | 1 626 | 88 | 3.30 |
| 17 | 3.31 | 89 | 3.30 |
| 18 | 3.20 to 3.25 | 90 | 0 009 |
| 19 | 3.31 | 91 | 1 625 |
| 20 | 3.31 | 92 | 2 802 |
| 21 | 3.31 | 93 | 0 009 |
| 22 | 3.31 | 94 | 3.31 |
| 23 | 3.31 | 95 | 0 011 |
| 24 | 3.31 | 96 | 0.713 |
| 25 | 3.31 | 97 | 1 042 |
| 26 | 3.31 | 98 | 3.31 |
| 27 | 3.31 | 99 | 1.44 to 1.46 |
| 28 | 3.31 | 100 | 1.28 to 1.33 |
| 29 | 3.31 | 101 | 1.42 to 1.46 |
| 30 | 3.31 | 102 | 1.17 to 1.29 |
| 31 | 3.31 | 103 | 0.98 to 1.14 |
| 32 | 0 008 | 104 | 1.52 to 1.54 |
| 33 | 3.31 | 105 | 0.53 to 0.57 |
| 34 | 0 008 | 106 | 0 009 |
| 35 | 3.31 | 107 | 0.38 to 0.48 |
| 36 | 1.25 to 1.30 | 108 | 0 009 |
| 37 | 0 008 | 109 | 0 009 |
| 38 | 1.24 to 1.27 | 110 | 0 008 |
| 39 | 0 008 | 111 | 0 008 |
| 40 | 0 008 | 112 | 3.31 |
| 41 | 1.32 to 1.38 | 113 | 1.46 to 1.49 |
| 42 | 1.22 to 1.30 | 114 | 0.5 to 0.8 |
| 43 | 1.23 to 1.25 | 115 | 1.40 to 1.45 |
| 44 | 1.23 to 1.25 | 116 | 1.33 |
| 45 | 3.31 | 117 | 1.28 to 1.35 |
| 46 | 0 008 | 118 | 0.99 to 1.15 |
| 47 | 3.31 | 119 | 0.92 to 1.09 |
| 48 | 0 015 | 120 | 0 010 |
| 49 | 1.28 | 121 | 1.50 to 1.54 |
| 50 | 0 008 | 122 | 1.62 to 1.68 |
| 51 | 0 009 | 123 | 0.65 to 0.81 |
| 52 | 1 626 | 124 | 0 010 |
| 53 | 3.31 | 125 | 1 626 |
| 54 | 1.26 to 1.28 | 126 | 0 009 |
| 55 | 3.31 | 127 | 3.31 |
| 56 | 3.31 | 128 | 0 009 |
| 57 | 0 008 | 129 | 3.31 |
| 58 | 3.31 | 130 | 3.31 |
| 59 | 0 009 | 131 | 1.80 to 1.86 |
| 60 | 0 009 | 132 | 1.69 to 1.75 |
| 61 | 3.31 | 133 | 1.34 to 1.73 |
| 62 | 0 008 | 134 | 1.45 to 1.63 |
| 63 | 0 008 | 135 | 0 010 |
| 64 | 0 009 | 136 | 1.42 to 1.53 |
| 65 | 0 009 | 137 | 1 3 to 1.5 |
| 66 | 0 009 | 138 | 0.90 to 0.94 |
| 67 | 0 008 | 139 | 0.85 to 0.87 |
| 68 | 1 626 | 140 | 0.85 to 0.93 |
| 69 | 3.30 | 141 | 0.95 to 1.12 |
| 70 | 0 008 | 142 | 1 628 |
| 71 | 1.25 to 1.27 | 143 | 0 009 |
| 72 | 0 008 | 144 | 0 009 |

• Remove CN401

IC402 (DSPD56367PV150)

| Pin | Voltage (V) | Pin | Voltage (V) |
|-----|----------------|-----|----------------|
| 1 | 2.23 to 2.26 | 73 | 0 008 |
| 2 | 1.17 to 1.22 | 74 | 3.31 |
| 3 | 1.00 to 1.04 | 75 | 0 008 |
| 4 | 0 008 | 76 | 0 008 |
| 5 | 0 008 | 77 | 0 008 |
| 6 | 0.045 to 0.046 | 78 | 0 008 |
| 7 | 0.045 to 0.046 | 79 | 0 008 |
| 8 | 3.31 | 80 | 3.31 |
| 9 | 0 009 | 81 | 0 009 |
| 10 | 0.045 to 0.046 | 82 | 0 009 |
| 11 | 0.044 to 0.046 | 83 | 0 009 |
| 12 | 1 661 | 84 | 0 009 |
| 13 | 1 664 | 85 | 0 009 |
| 14 | 1.65 | 86 | 3.31 |
| 15 | 1 927 | 87 | 0 009 |
| 16 | 1 625 | 88 | 0 009 |
| 17 | 3 204 | 89 | 0 009 |
| 18 | 1.753 | 90 | 0 009 |
| 19 | 0 009 | 91 | 1.757 |
| 20 | 3.31 | 92 | 0 008 |
| 21 | 3.31 | 93 | 0 008 |
| 22 | 3.31 | 94 | 0 008 |
| 23 | 0 012 | 95 | 3.31 |
| 24 | 0 009 | 96 | 0 008 |
| 25 | 3.31 | 97 | 0 008 |
| 26 | 0 009 | 98 | 0 008 |
| 27 | 1 681 | 99 | 0 008 |
| 28 | 0 009 | 100 | 0.013 to 0.015 |
| 29 | 0 009 | 101 | 0 013 |
| 30 | 3.31 | 102 | 0.020 to 0.100 |
| 31 | 1.68 to 1.75 | 103 | 3.31 |
| 32 | 1.81 to 1.84 | 104 | 0 008 |
| 33 | 0.75 | 105 | 0 to 0.07 |
| 34 | 0.39 to 0.78 | 106 | 0 019 |
| 35 | 1.47 to 1.48 | 107 | 0.015 to 0.017 |
| 36 | 1.52 to 1.53 | 108 | 0.015 to 0.017 |
| 37 | 0 6 to 1.4 | 109 | 0 012 |
| 38 | 3.31 | 110 | 0 013 |
| 39 | 0 008 | 111 | 3.31 |
| 40 | 1.19 to 1.30 | 112 | 0 008 |
| 41 | 1.47 to 1.49 | 113 | 0 013 |
| 42 | 1.38 to 1.45 | 114 | 0 012 |
| 43 | 1.47 to 1.49 | 115 | 0 012 |
| 44 | 3.31 | 116 | 0 012 |
| 45 | 1.759 | 117 | 0 012 |
| 46 | 0 383 | 118 | 0 012 |
| 47 | 0 008 | 119 | 3.31 |
| 48 | 0.115 | 120 | 0 008 |
| 49 | 3.31 | 121 | 0 012 |
| 50 | 0 009 | 122 | 0 012 |
| 51 | 0.60 to 0.72 | 123 | 0 012 |
| 52 | 1.1 to 1.2 | 124 | 0 012 |
| 53 | 0 009 | 125 | 0 012 |
| 54 | 0 008 | 126 | 1.756 |
| 55 | 1 629 | 127 | 0 008 |
| 56 | 1.756 | 128 | 0 012 |
| 57 | 3.31 | 129 | 3.31 |
| 58 | 0 008 | 130 | 0 008 |
| 59 | 1 663 | 131 | 0 013 |
| 60 | 1 896 | 132 | 0 019 |
| 61 | 0 008 | 133 | 0 013 |
| 62 | 0 008 | 134 | 3.30 |
| 63 | 3.31 | 135 | 3.30 |
| 64 | 3.30 | 136 | 0 010 |
| 65 | 3.31 | 137 | 0 009 |
| 66 | 0 008 | 138 | 0 009 |
| 67 | 0.46 to 0.52 | 139 | 0.30 to 0.32 |
| 68 | 0.61 to 0.68 | 140 | 0.010 to 0.060 |
| 69 | 0.48 to 0.52 | 141 | 3.25 |
| 70 | 0.43 to 0.52 | 142 | 3.29 |
| 71 | 0 008 | 143 | 0.34 to 0.39 |
| 72 | 0 008 | 144 | 1.54 |

IC403 (TE4300PF)

| Pin | Voltage (V) |
|-----|--------------|
| 1 | 1.51 to 1.63 |
| 2 | 1.53 to 1.72 |
| 3 | 1.69 to 1.75 |
| 4 | 1.80 to 1.81 |
| 5 | 0.5 to 0.8 |
| 6 | 0.009 |
| 7 | 0.66 to 0.85 |
| 8 | 1.62 to 1.69 |
| 9 | 1.52 to 1.56 |
| 10 | 0.9 to 1.1 |
| 11 | 0.9 to 1.2 |
| 12 | 3.31 |
| 13 | 1.29 to 1.34 |
| 14 | 1.33 to 1.41 |
| 15 | 1.41 to 1.46 |
| 16 | 0.1 to 0.6 |
| 17 | 0.44 to 0.52 |
| 18 | 0.009 |
| 19 | 3.31 |
| 20 | 1.52 to 1.55 |
| 21 | 1.00 to 1.17 |
| 22 | 1.18 to 1.23 |
| 23 | 1.45 to 1.48 |
| 24 | 1.31 to 1.35 |
| 25 | 1.45 to 1.47 |
| 26 | 3.31 |
| 27 | 3.31 |
| 28 | 3.31 |
| 29 | 3.31 |
| 30 | 3.31 |
| 31 | 0.009 |
| 32 | 3.31 |
| 33 | 3.31 |
| 34 | 3.31 |
| 35 | 0.010 |
| 36 | 0.079 |
| 37 | 3.31 |
| 38 | 1.660 |
| 39 | 3.31 |
| 40 | 3.31 |
| 41 | 3.31 |
| 42 | 0.008 |
| 43 | 3.31 |
| 44 | 3.31 |
| 45 | 3.31 |
| 46 | 3.31 |
| 47 | 3.31 |
| 48 | 3.31 |

G MFLB ASSY

IC1002 (PEG237A)

| Pin | Voltage (V) | Pin | Voltage (V) |
|-----|----------------|-----|-------------|
| 1 | 1.936 | 51 | 0.008 |
| 2 | 5.02 | 52 | 0.008 |
| 3 | 5.02 | 53 | 0.008 |
| 4 | 5.02 | 54 | 0.008 |
| 5 | 0.007 | 55 | 0.008 |
| 6 | 0.018 | 56 | 0.008 |
| 7 | 0.007 | 57 | 0.007 |
| 8 | 0.004 | 58 | 0.007 |
| 9 | 0.004 | 59 | 0.007 |
| 10 | 0.004 | 60 | 0.007 |
| 11 | 0.004 | 61 | 0.007 |
| 12 | 5.02 | 62 | 5.02 |
| 13 | 2.558 | 63 | 0.005 |
| 14 | 0.004 | 64 | 0.004 |
| 15 | 2.328 | 65 | 0.005 |
| 16 | 5.02 | 66 | 0.005 |
| 17 | 5.02 | 67 | 0.006 |
| 18 | 5.02 | 68 | 0.006 |
| 19 | 5.02 | 69 | 5.01 |
| 20 | 5.02 | 70 | 5.01 |
| 21 | 5.02 | 71 | 0.006 |
| 22 | 5.02 | 72 | 5.01 |
| 23 | 5.02 | 73 | 0.268 |
| 24 | 5.02 | 74 | 5.01 |
| 25 | 0.018 | 75 | 0.004 |
| 26 | 0 to 5 02 | 76 | 0.004 |
| 27 | 0.014 to 0.017 | 77 | 0.004 |
| 28 | 3.96 | 78 | 0.004 |
| 29 | 0.008 | 79 | 0.004 |
| 30 | 1.3 to 1.7 | 80 | 0.004 |
| 31 | 0.64 to 0.65 | 81 | 5.02 |
| 32 | 5.01 | 82 | 5.02 |
| 33 | 4.10 | 83 | 5.02 |
| 34 | 5.01 | 84 | 5.02 |
| 35 | 0.44 to 0.47 | 85 | 5.02 |
| 36 | 1.8 to 2.2 | 86 | 5.02 |
| 37 | 4.78 | 87 | 5.02 |
| 38 | 3.59 | 88 | 5.02 |
| 39 | 5.02 | 89 | 2.215 |
| 40 | 0.009 | 90 | 2.121 |
| 41 | 0.004 | 91 | 5.01 |
| 42 | 0.024 | 92 | 5.01 |
| 43 | 0.608 | 93 | 5.01 |
| 44 | 0.016 | 94 | 0.004 |
| 45 | 2.821 | 95 | 0.004 |
| 46 | 5.02 | 96 | 0.004 |
| 47 | 5.01 | 97 | 0.004 |
| 48 | 5.01 | 98 | 5.03 |
| 49 | 0.009 | 99 | 5.03 |
| 50 | 0.008 | 100 | 0.004 |

B

C

D


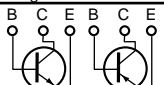

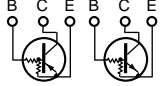

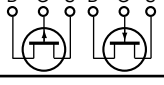

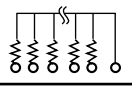


E

F

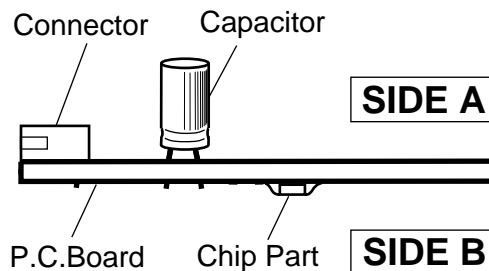
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

| Symbol In PCB Diagrams | Symbol In Schematic Diagrams | Part Name |
|---|---|--------------------------|
|  |  | Transistor |
|  |  | Transistor with resistor |
|  |  | Field effect transistor |
|  |  | Resistor array |
|  |  | 3-terminal regulator |

3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



4.1 MAIN ASSY

SIDE A

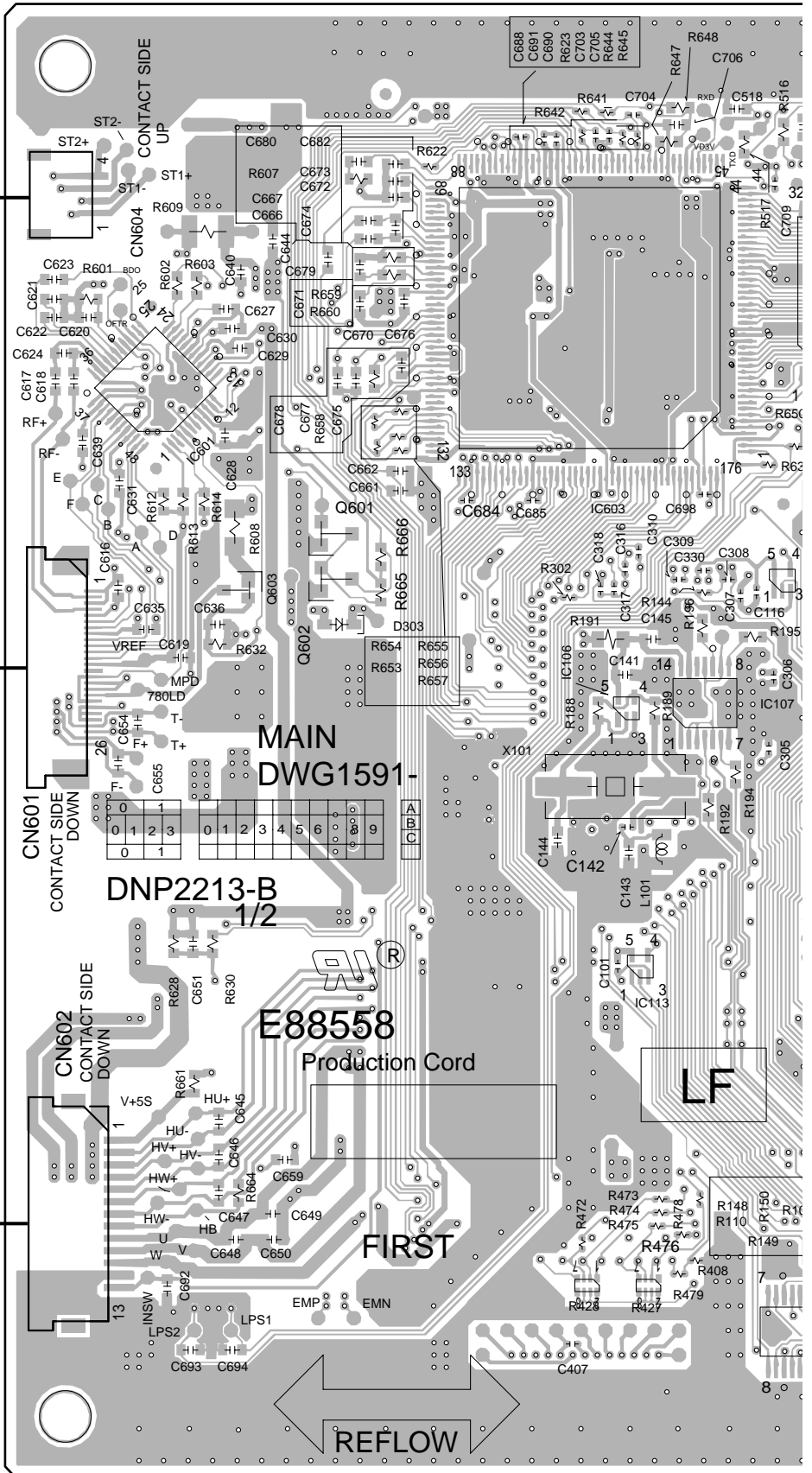
A MAIN ASSY

A
B
C
D
E
F

STEPPING MOTOR

PICKUP ASSY

CN3102



MAIN DWG1591-

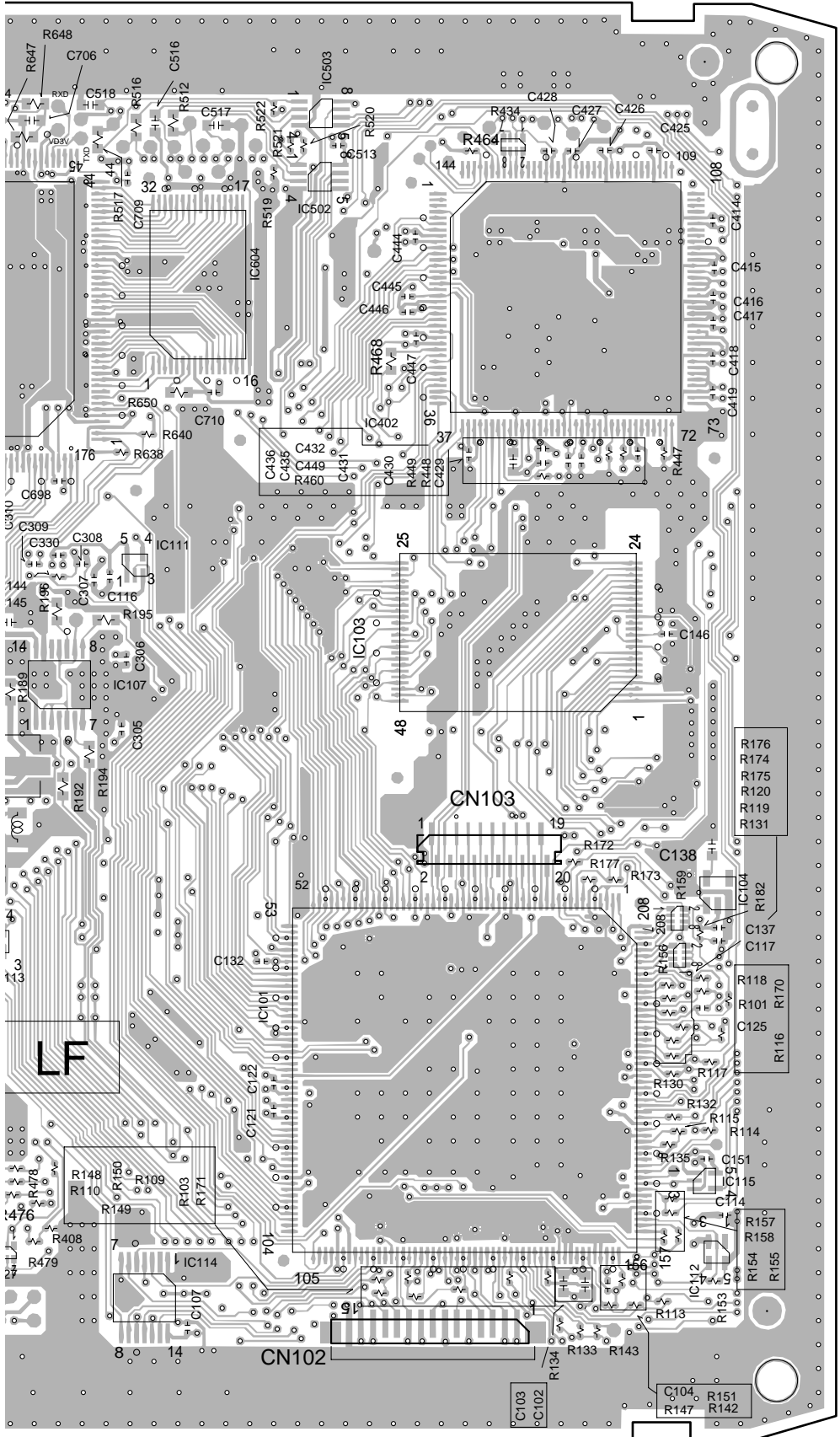
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| A | B | C | | | | | | | |

A

CDJ-1000MK3

SIDE A

A
B
C
D
E
F



- IC503
- IC502
- IC603 IC604 IC402
- IC601
- Q601
- Q602 IC111
- Q603
- IC103
- IC106 IC107
- IC104
- IC113
- IC101
- IC115
- IC112
- IC114

(DNP2213-B)

SIDE B

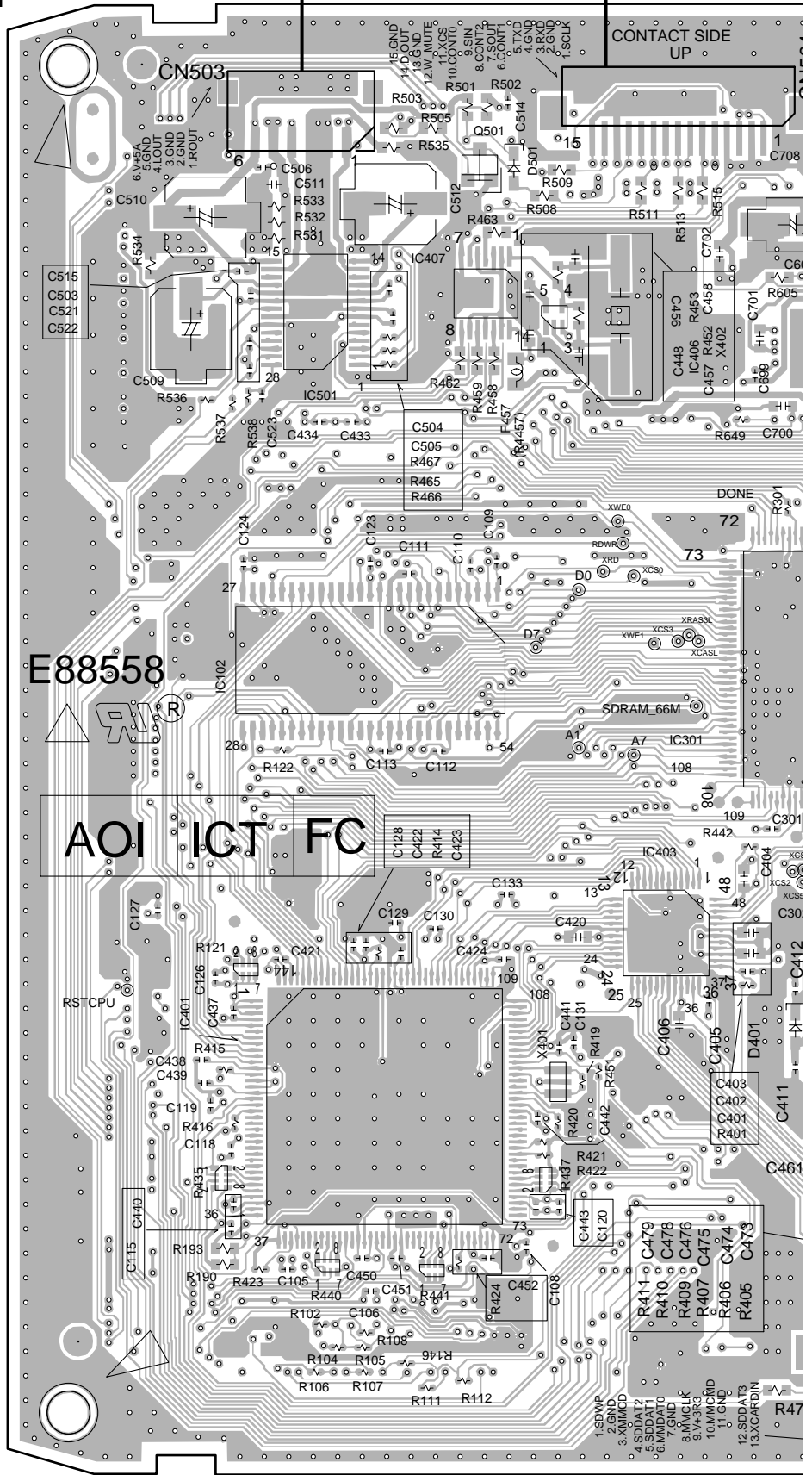
A MAIN ASSY

F CN1506

F CN1502

CN503

CN501



E88558

AOI ICT FC

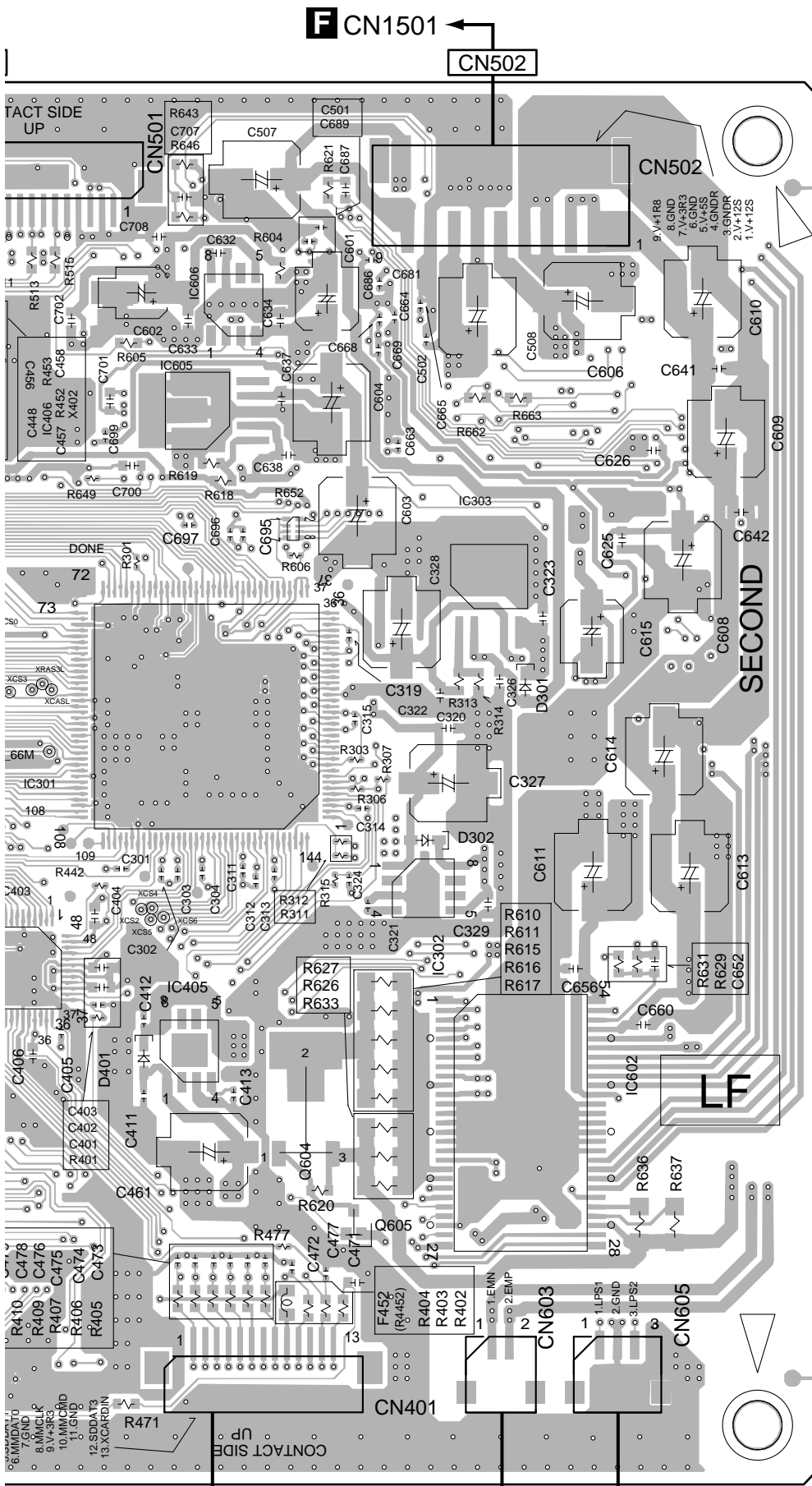
E CN3002

A

CDJ-1000MK3

SIDE B

A
B
C
D
E
F



- Q501
- IC606
- IC407
- IC501
- IC406
- IC605
- IC303
- IC102
- IC301
- IC302
- IC403
- IC405
- IC602
- IC401
- Q604
- Q605

(DNP2213-B)

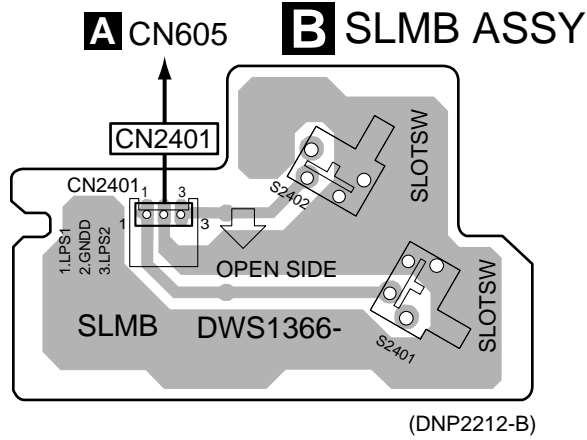
E CN3002 ← CN401 ← CN603 CN605 → **B** CN2401

A

4.2 SLMB, SPCN, INSW and SDCB ASSYS

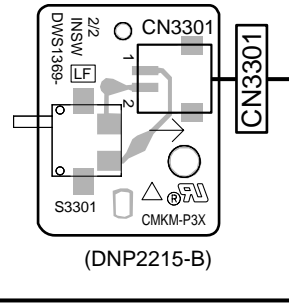
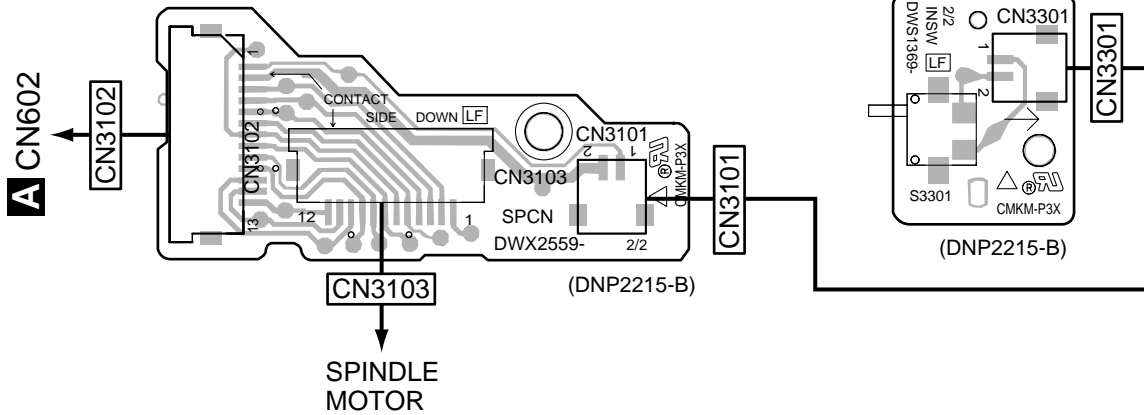
SIDE A

SIDE A

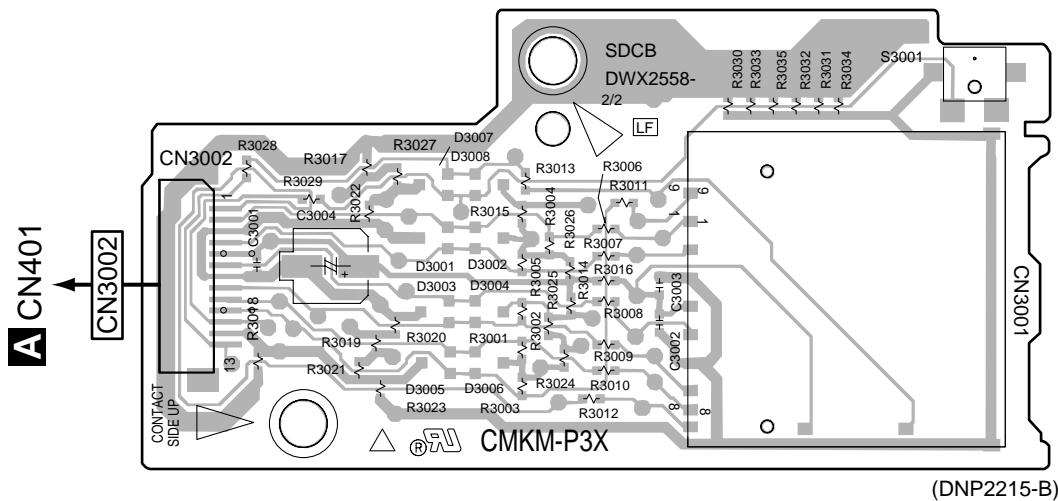


C SPCN ASSY

D INSW ASSY



E SDCB ASSY



B C D E

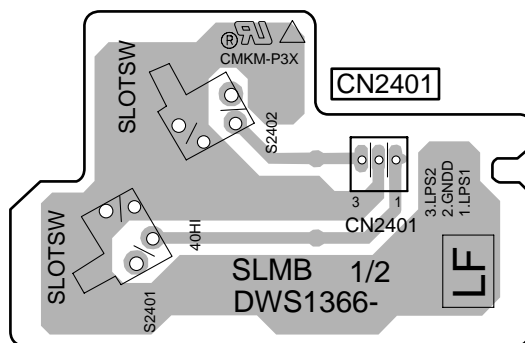
CDJ-1000MK3

SIDE B

SIDE B

A

B SLMB ASSY



(DNP2212-B)

B

C

D

E

F

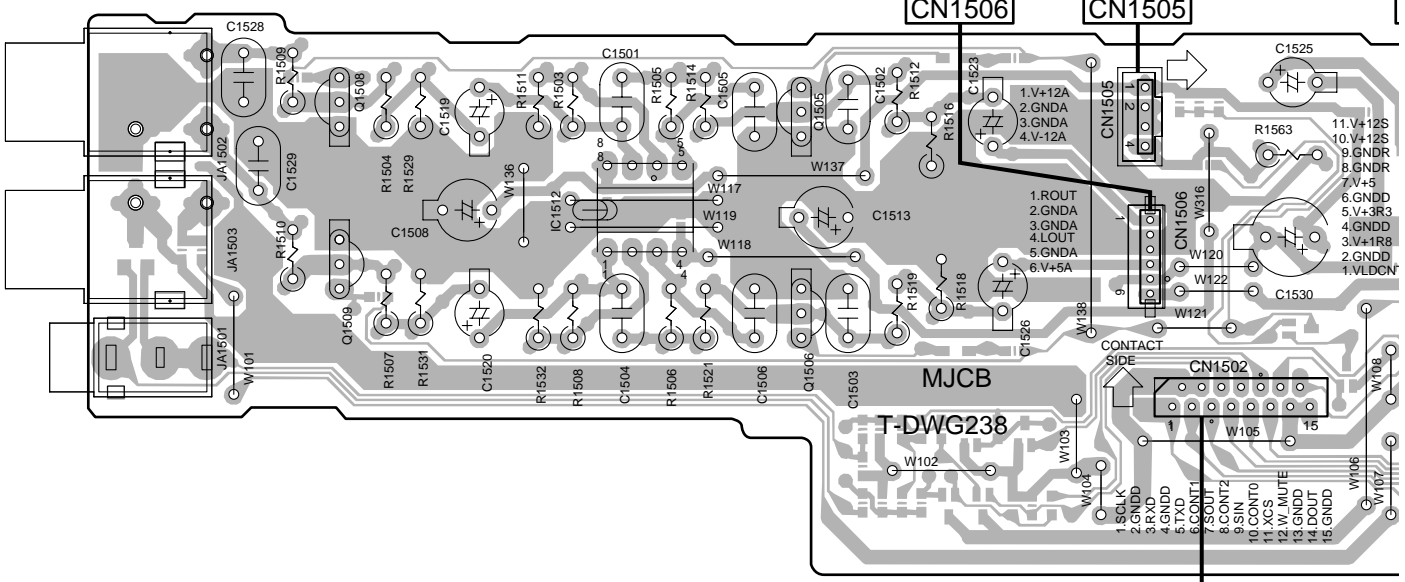
B

4.3 MJCB ASSY

SIDE A

F MJCB ASSY

A CN503 **M** CN601 **M**

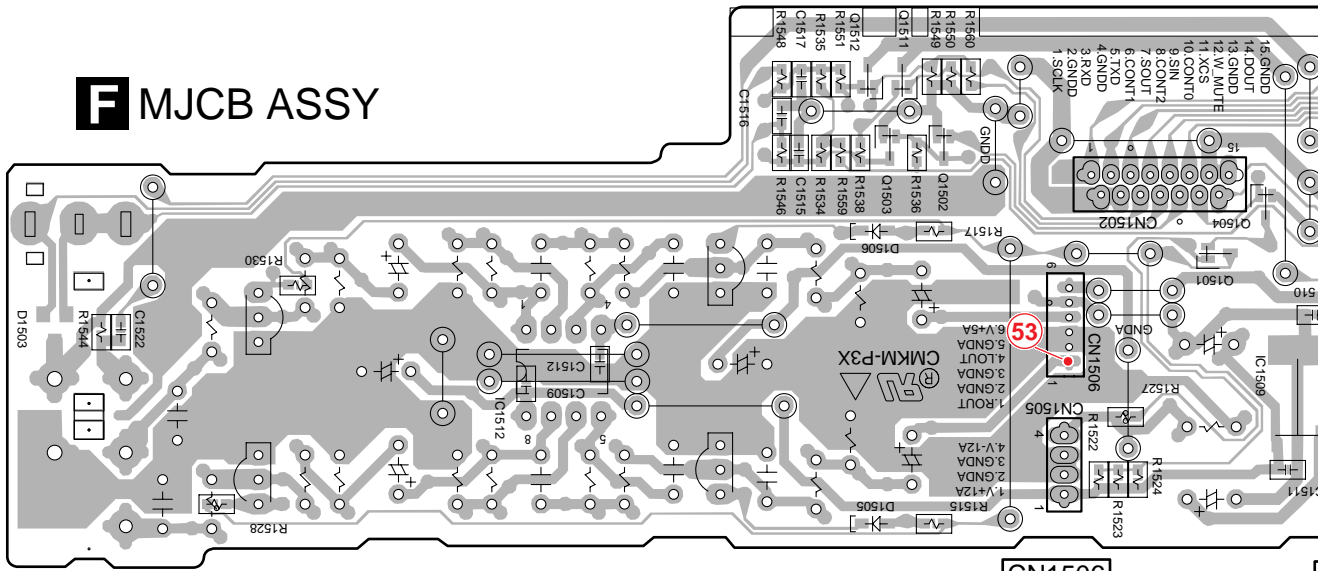


Q1508 IC1512 Q1505
Q1509 Q1506

SIDE B

F MJCB ASSY

CN1502

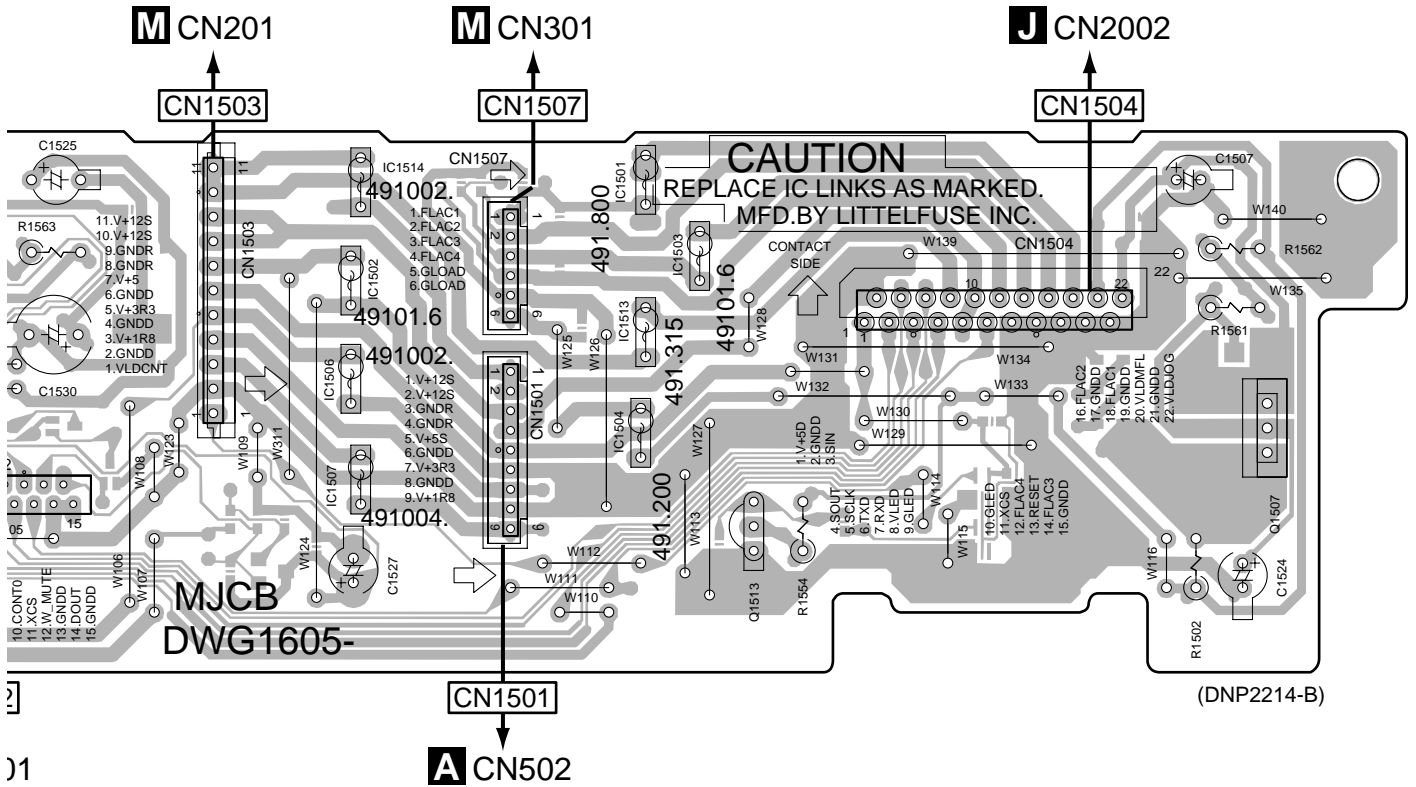


IC101 Q1512 Q1511 Q1504
Q1503 Q1502 Q1501 IC150

F

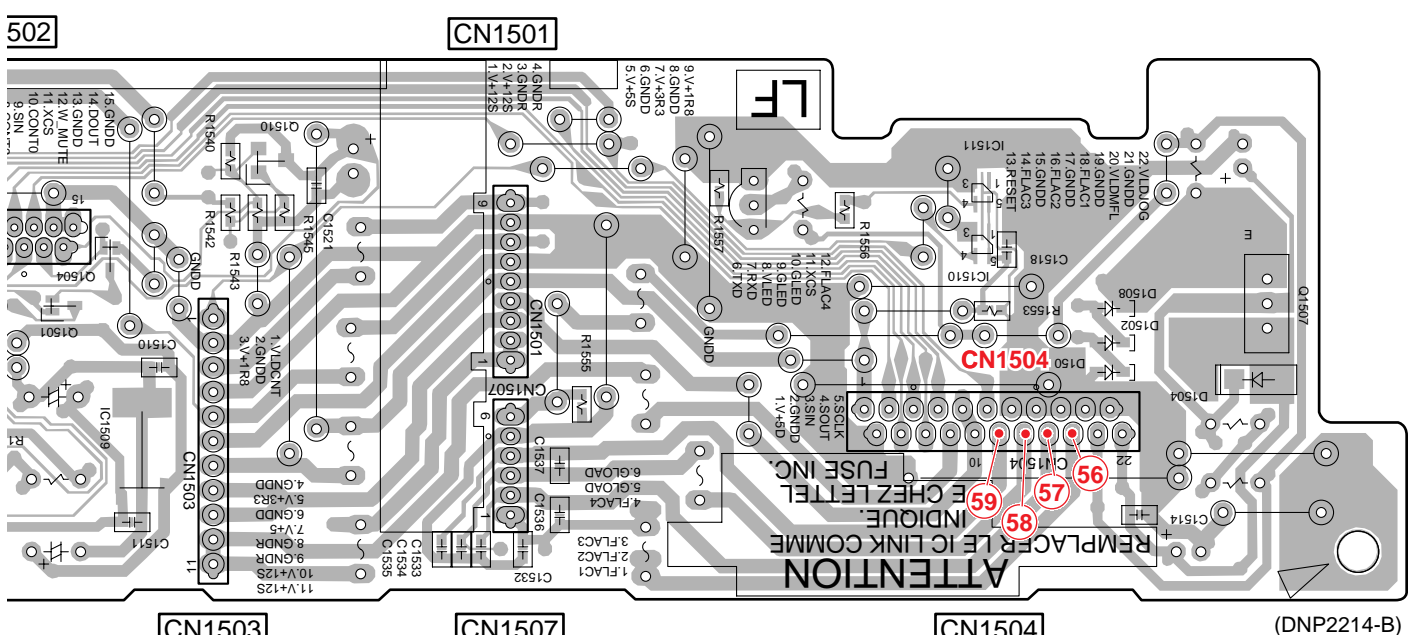
CDJ-1000MK3

SIDE A



IC1502 IC1514 IC1501 IC1503 Q1507
IC1506 IC1507 IC1513 Q1513
IC1504

SIDE B



Note :
The encircled numbers denote measuring point.

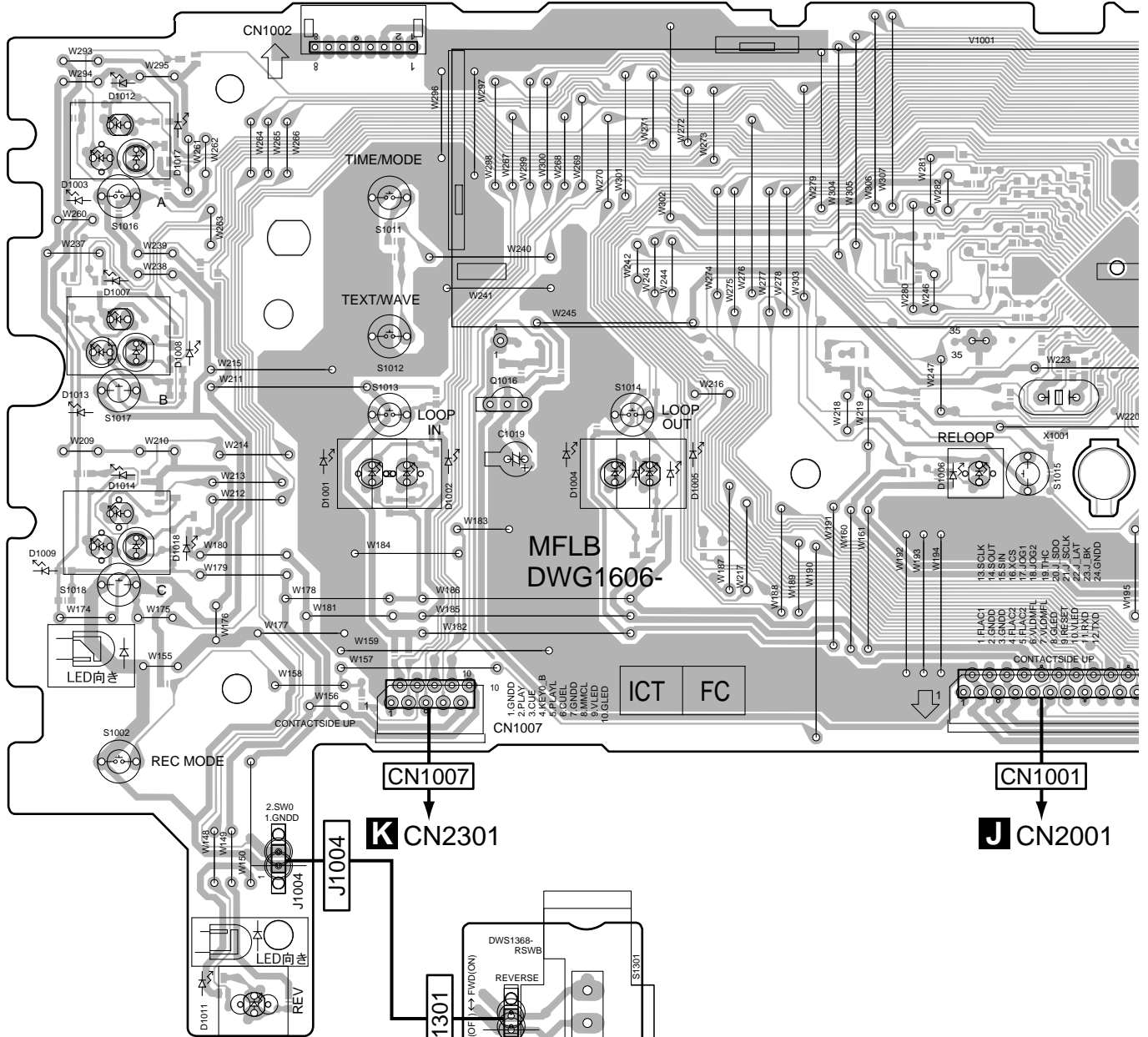
Q1504 Q1510 IC1511 Q1507
Q1501 IC1509 IC1510

4.4 MFLB and RSWB ASSYS

SIDE A

Q1016

G MFLB ASSY



I RSWB ASSY

CDJ-1000MK3

SIDE A

A

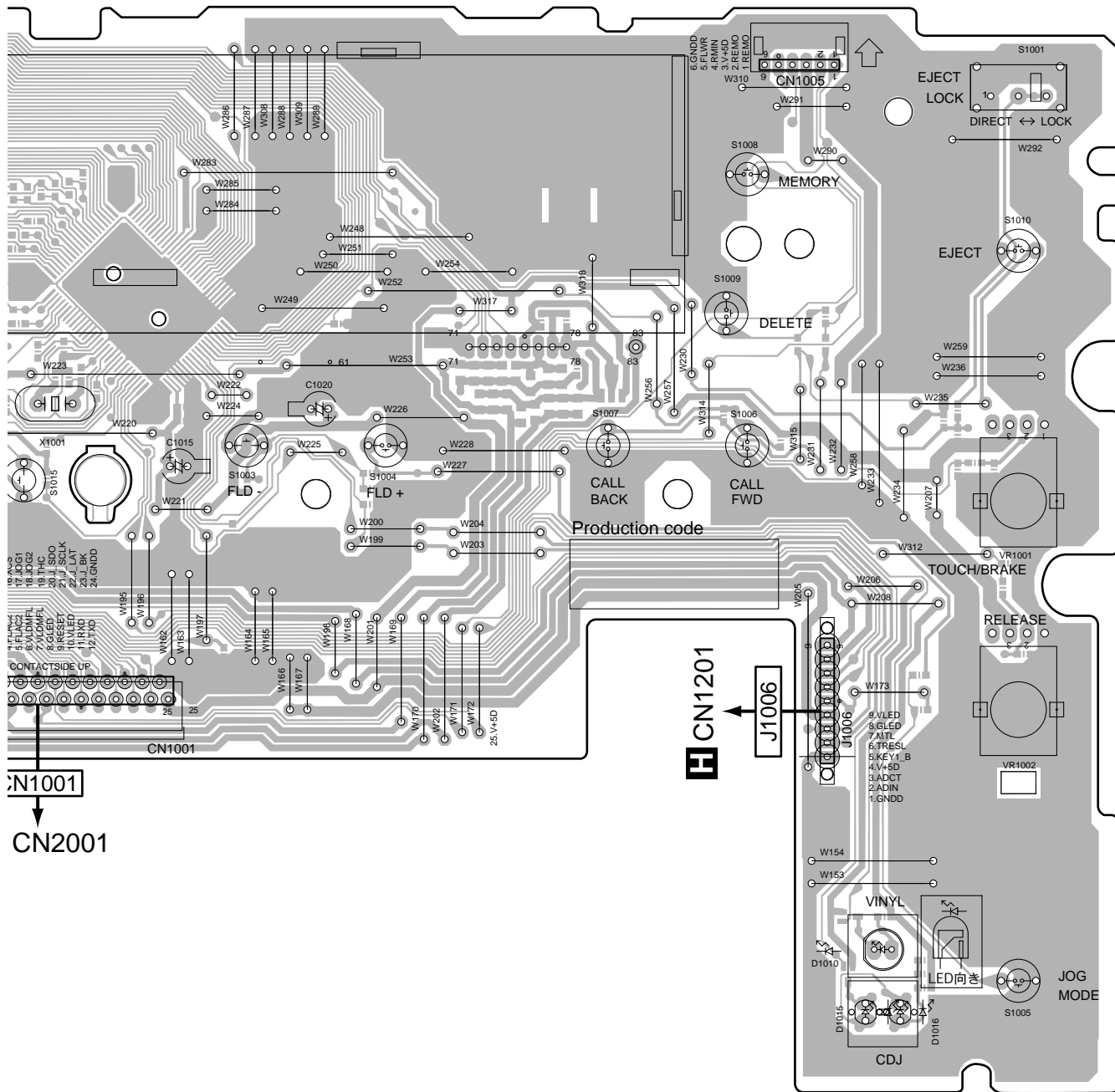
B

C

D

E

F



(DNP2214-B)

SIDE B

A

Q1008
Q1012

IC1004

IC1002

VR1001
VR1002

G MFLB ASSY

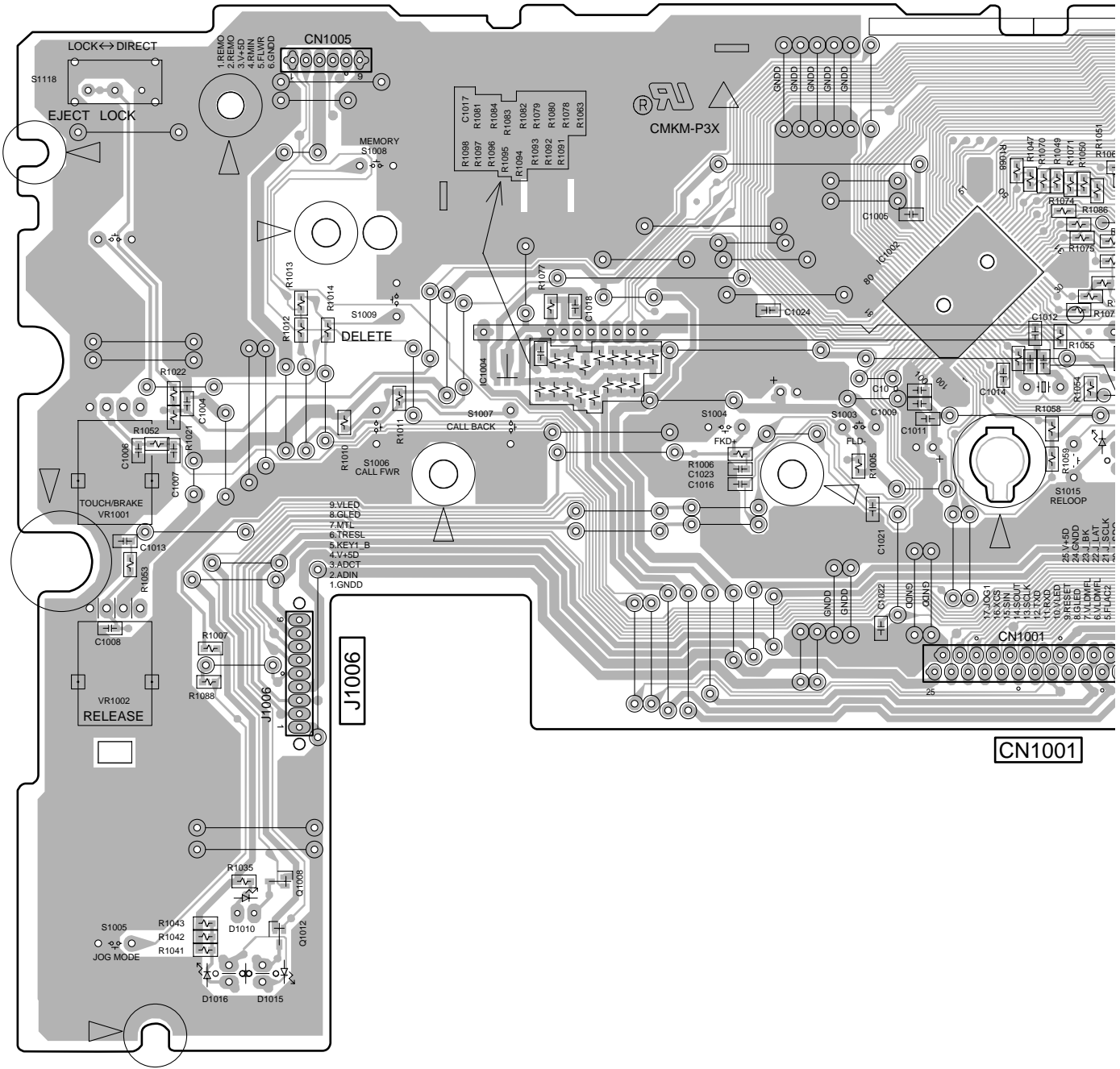
B

C

D

E

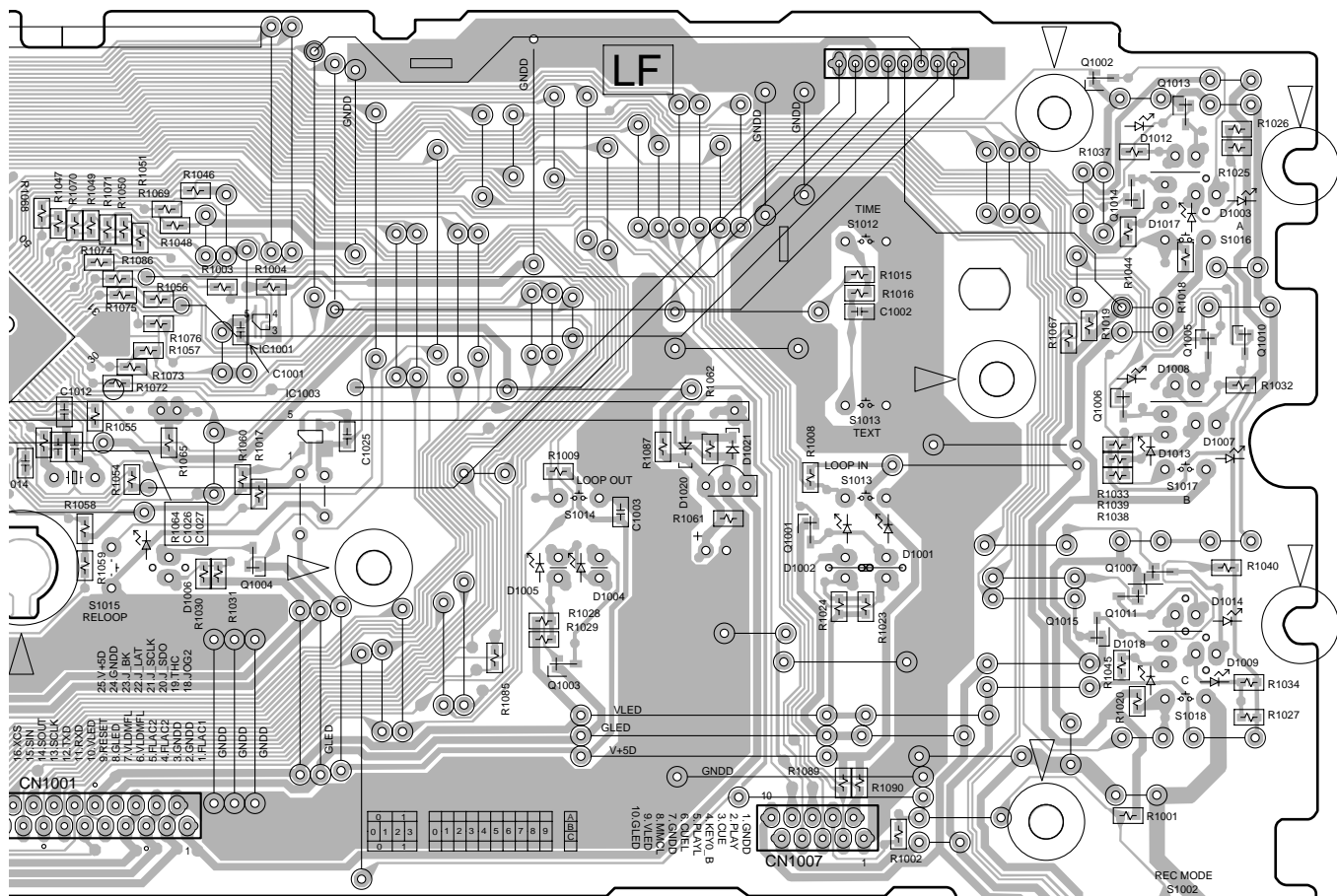
F



G

SIDE B

IC1001 IC1003 Q1004 Q1003 Q1001 Q1002 Q1013 Q1014 Q1006 Q1005 Q1010 Q1007 Q1011 Q1015 Q1009



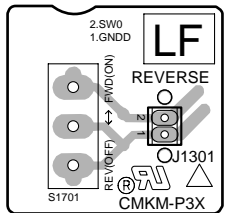
CN1001

CN1007

J1004

(DNP2214-B)

RSWB ASSY



(DNP2214-B)

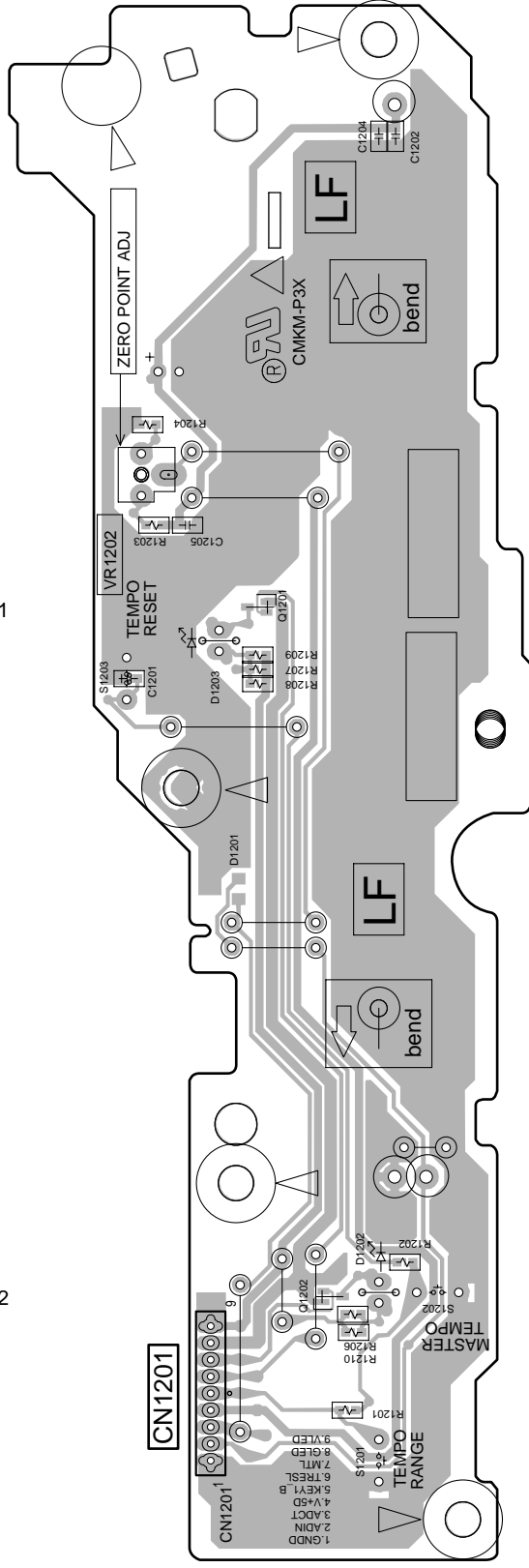
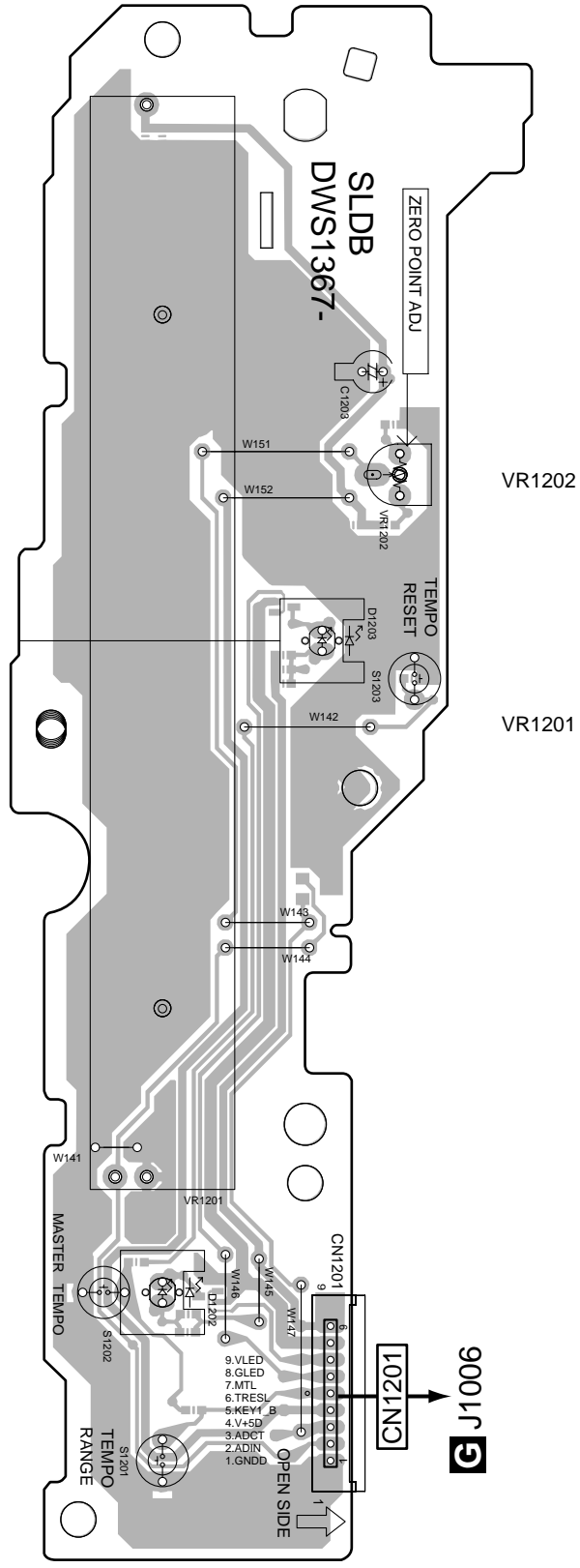
4.5 SLDB ASSY

SIDE A

SIDE B

H SLDB ASSY

H SLDB ASSY



(DNP2214-B)

(DNP2214-B)

CN1201
G J1006

VR1202
 Q1201
 VR1201
 Q1202



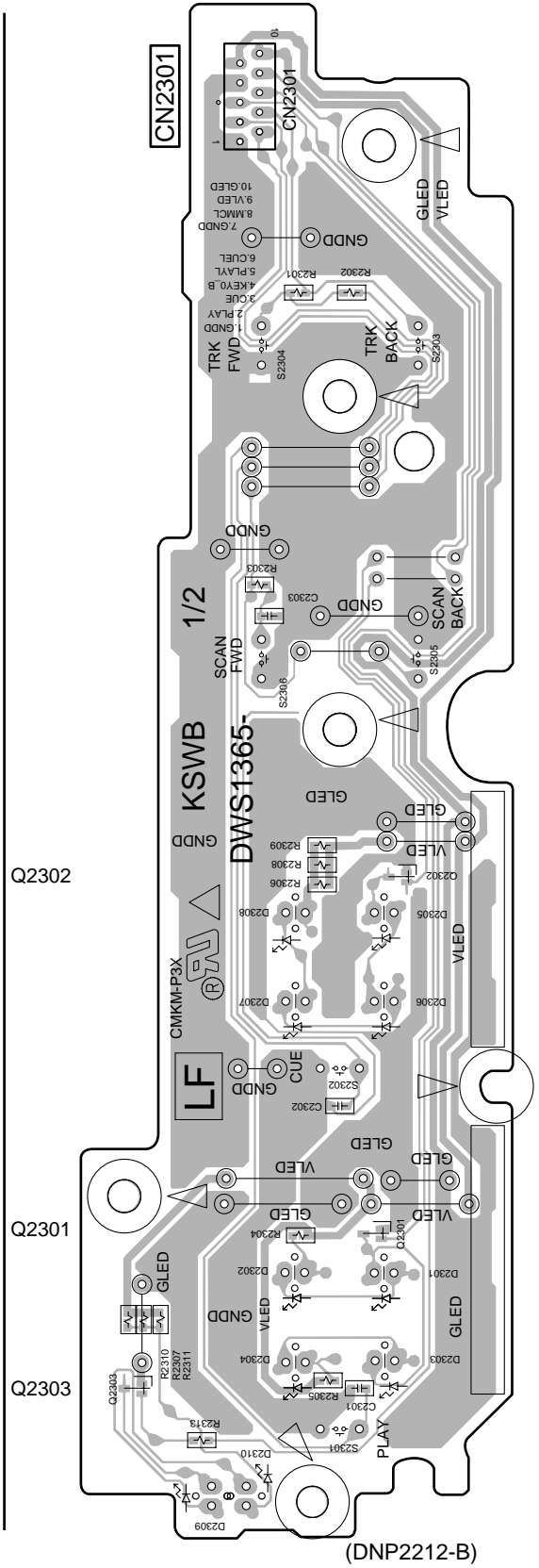
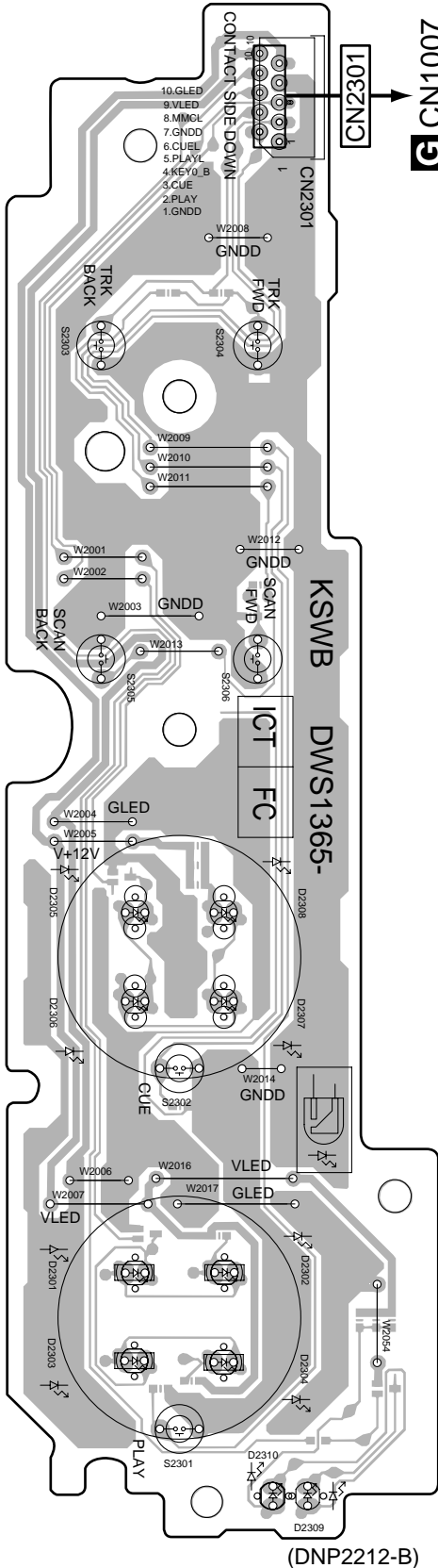
4.6 KSWB ASSY

SIDE A

SIDE B

K KSWB ASSY

K KSWB ASSY



4.7 JFLB and JOGB ASSYS

SIDE A

SIDE A

Q2003
Q2002

Q2001

G CN1001

J JFLB ASSY

CN2001

JFLB

DWG1602-

- 1.FLAC1
- 2.GNDD
- 3.FLAC2
- 5.FLAC2
- 6.VLDMFL
- 7.VLDMFL
- 8.GLED
- 9.RESET
- 10.VLED
- 11.RXD
- 12.TXD
- 13.SCLK

- 16.XCS
- 17.JOG1
- 18.JOG2
- 19.TCH
- 20.J.SDO
- 21.J.SCLK
- 22.J.LAT
- 23.J.BK
- 24.GNDD
- 25.V+5D

GNDD

GNDD

- 1.TCH
- 2.AC
- 3.GNDD

CONTACT SIDE UP

VLOADJ

V+5D

VLOAD

V+5D

FLAC3

GNDD

GNDD

FLAC3

VLOAD

FLAC4

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

VLOAD

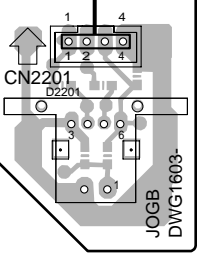
VLOAD

- 1.V+5D
- 2.GNDD
- 3.SIN
- 5.SCLK
- 6.TXD
- 7.RXD
- 8.VLED
- 9.GLED
- 10.GLED
- 11.XCS
- 12.FLAC4
- 13.RESET
- 14.FLAC3
- 15.GNDD
- 16.FLAC2
- 17.GNDD
- 18.FLAC1
- 19.GNDD
- 20.VLDMFL
- 21.GNDD
- 22.VLOAD

(DNP2212-B)

(DNP2212-B)

L JOGB ASSY



JOGB
DWG1603

CN2002

F CN1504

CN2003

CN2004

SHEET SW

CN2201

SIDE B

SIDE B

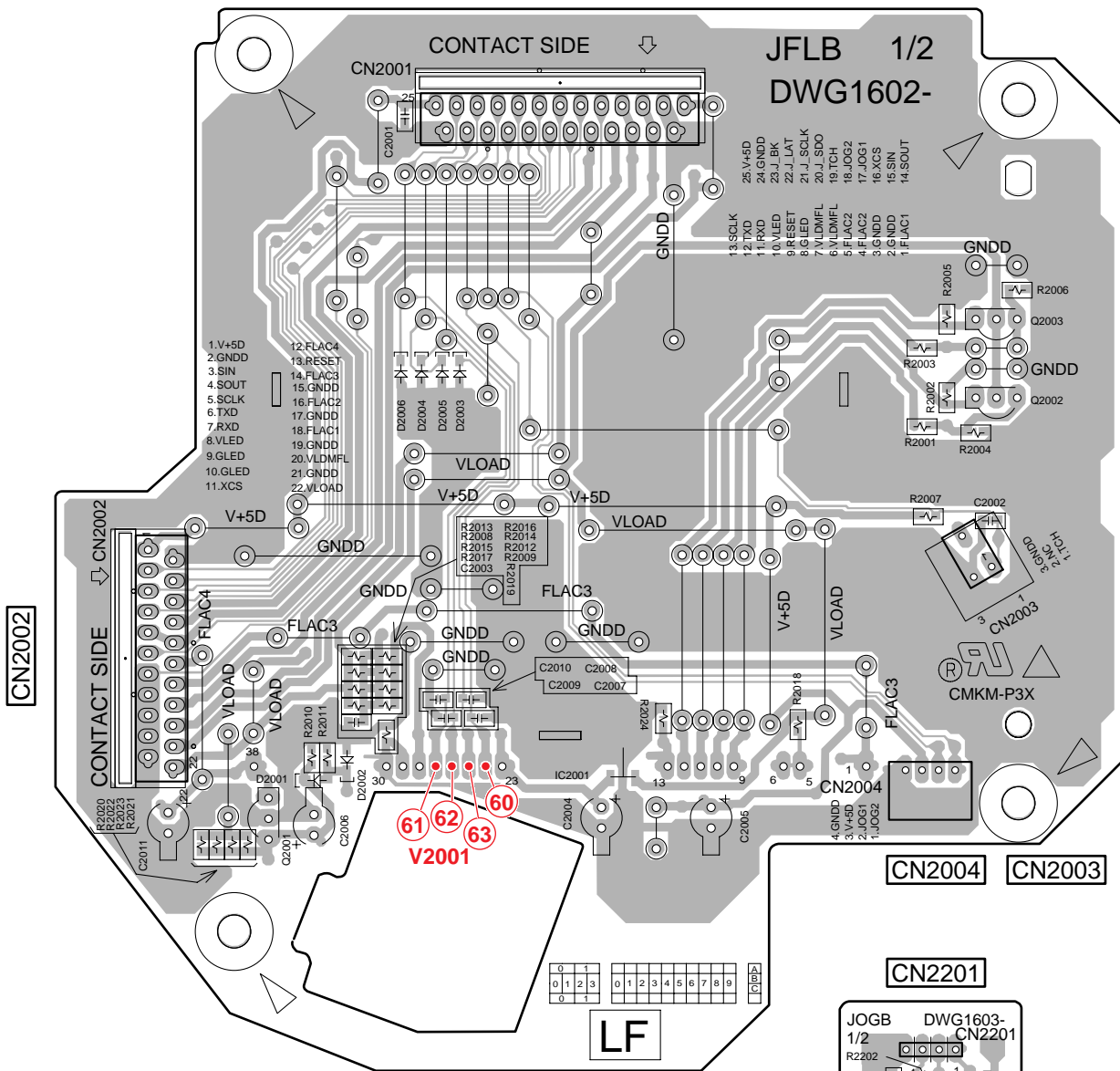
Q2001

IC2001

Q2003
Q2002

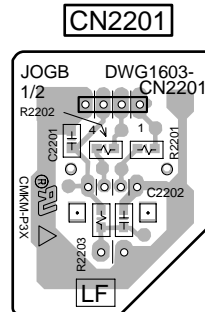
J JFLB ASSY

CN2001



(DNP2212-B)

Note : The encircled numbers denote measuring point.



(DNP2212-B)

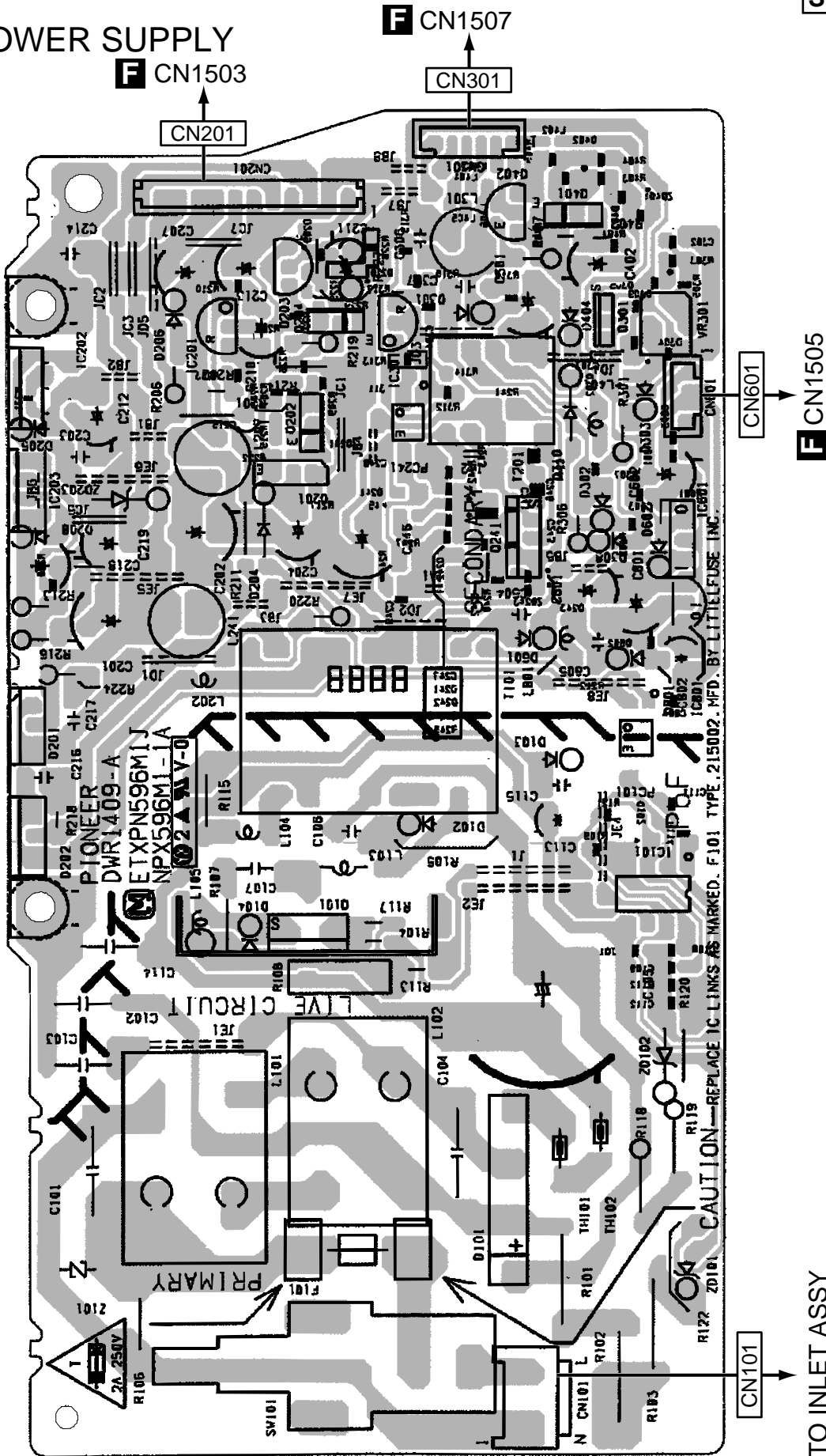
L JOGB ASSY

4.8 SW POWER SUPPLY ASSY

SIDE A

SIDE A

M SW POWER SUPPLY ASSY



F CN1507

F CN1503

CN301

CN201

CN601

F CN1505

CN101

TO INLET ASSY

M

M

5. PCB PARTS LIST

NOTES: ●Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

●The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

●When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω \rightarrow 56 x 10¹ \rightarrow 561 RD1/4PU 561J
 47k Ω \rightarrow 47 x 10³ \rightarrow 473 RD1/4PU 473J
 0.5 Ω \rightarrow R50 RN2H R50K
 1 Ω \rightarrow 1R0 RSIP 1R0K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω \rightarrow 562 x 10¹ \rightarrow 5621 RN1/4PC 5621F

Mark No. Description Part No.

LIST OF ASSEMBLIES

| | | |
|----------|-------------------------|---------|
| | 1..MAIN ASSY | DWG1591 |
| NSP | 1..MFLA ASSY | DWM2223 |
| | 2..MJCB ASSY | DWG1605 |
| | 2..MFLB ASSY | DWG1606 |
| | 2..SLDB ASSY | DWS1367 |
| | 3..RSWB ASSY | DWS1368 |
| NSP | 1..JFLA ASSY | DWM2224 |
| | 2..JFLB ASSY | DWG1602 |
| | 2..JOGB ASSY | DWG1603 |
| | 2..KSWB ASSY | DWS1365 |
| | 3..SLMB ASSY | DWS1366 |
| NSP | 1..SUBA ASSY | DWM2225 |
| | 2..INSW ASSY | DWS1369 |
| | 2..SDCB ASSY | DWX2558 |
| | 2..SPCN ASSY | DWX2559 |
| Δ | 1..SW POWER SUPPLY ASSY | DWR1409 |

Mark No. Description Part No.

A MAIN ASSY SEMICONDUCTORS

| | | |
|----------|-------------------|-------------------|
| | IC601 | AN22022A |
| Δ | IC303 | BA00HC5FP |
| Δ | IC605 | BA15BC0WFP |
| | IC602 | BD7905BFS |
| | IC104 | BU4230G |
| | IC402 | DSPD56367PV150 |
| | IC103 | DYW1752 |
| | IC101 | HD6417709SF133B-D |
| | IC102 | K4S281632F-UC75 |
| Δ | IC606 | MM1478DFBE |
| Δ | IC302 | MM1592FF |
| Δ | IC405 | MM1661GH |
| | IC603 | MN103S71F |
| | IC501 | PE8001A |
| | IC604 | PEA007A8 |
| | IC107,IC114,IC407 | TC74VHC04FTS1 |
| | IC112 | TC7SH04FUS1 |
| | IC111,IC113,IC115 | TC7SH08FUS1 |
| | IC106,IC406 | TC7SZU04FU |
| | IC502,IC503 | TC7WH34FU |

| | | |
|--|----------------|-------------------|
| | IC403 | TE4300PF |
| | IC401 | TMS320DA150PGE16D |
| | IC301 | XC3S50-4TQG144C |
| | Q603 | 2SA1577 |
| | Q501 | 2SD2114K |
| | Q604 | 2SJ598-Z |
| | Q601,Q602 | DTC114YK |
| | Q605 | DTC124EUA |
| | D501 | 1SS355 |
| | D301-D303,D401 | RB551V-30 |

COILS AND FILTERS

| | |
|------|--------------|
| L101 | LCYA1R5J2520 |
|------|--------------|

CAPACITORS

| | |
|--------------------------|---------------|
| C602 (22/6.3 V) | CCH1426 |
| C672 | CCSRCH101J50 |
| C652 | CCSRCH121J50 |
| C457 | CCSRCH150J50 |
| C630,C651 | CCSRCH151J50 |
| C458 | CCSRCH180J50 |
| C516-C518 | CCSRCH221J50 |
| C143,C144 | CCSRCH7R0D50 |
| C105,C321,C413 | CCSSCH471J16 |
| C327,C328,C461,C507,C508 | CEHVW101M6R3 |
| C510,C603,C604,C606,C608 | CEHVW101M6R3 |
| C611 | CEHVW101M6R3 |
| C509,C512,C609,C610 | CEHVW470M16 |
| C613,C614 | CEHVW470M16 |
| C601,C615 | CEHVW470M6R3 |
| C627,C645-C647,C666,C667 | CKSRYB102K50 |
| C676,C679,C692 | CKSRYB102K50 |
| C659,C682 | CKSRYB103K50 |
| C471,C616-C619,C625,C626 | CKSRYB104K16 |
| C628,C629,C631,C633-C636 | CKSRYB104K16 |
| C639-C642,C644,C656,C660 | CKSRYB104K16 |
| C680,C687 | CKSRYB104K16 |
| C102,C103,C141,C145,C320 | CKSRYB105K6R3 |
| C322,C323,C326,C329 | CKSRYB105K6R3 |
| C402-C404,C406,C420,C435 | CKSRYB105K6R3 |
| C448,C456,C632,C637,C638 | CKSRYB105K6R3 |
| C700-C702,C708 | CKSRYB105K6R3 |
| C671 | CKSRYB122K50 |
| C675,C678 | CKSRYB182K50 |
| C677 | CKSRYB222K50 |

Mark No. Description**Part No.**

C621,C673
C138
C661,C662
C654,C655,C670
C622,C707

CKSRYB273K16
CKSRYB333K16
CKSRYB471K50
CKSRYB472K50
CKSRYB473K25

C706
C620
C142,C689
C125,C324,C401,C441,C449
C503-C506

CKSRYB474K10
CKSRYB561K50
CKSSYB102K50
CKSSYB103K16
CKSSYB103K16

C101,C104,C106-C116
C118-C124,C126-C133,C137
C146,C151,C301-C319,C330
C405,C407,C411,C412
C414-C419,C421-C432

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C436-C440,C442-C447
C450-C452,C501,C502
C513-C515,C663-C665
C668,C669,C681,C684-C686
C688,C690,C691,C695-C699

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C710
C704,C705
C433
C434,C703

CKSSYB104K10
CKSSYB182K50
CKSSYB333K10
CKSSYB562K25

C RESISTORS

R610,R611,R615-R617 (0.68,1/4 W)
R626,R627,R633 (0.68,1/4 W)
R121,R156,R159,R652
R427,R428,R434
R435,R437,R440,R441

DCN1143
DCN1143
RAB4CQ103J
RAB4CQ223J
RAB4CQ472J

R191,R4452,R4457
R313
R659
R314
R468

RS1/10S0R0J
RS1/16S1001D
RS1/16S1502F
RS1/16S2001D
RS1/16S2701F

R609
R608
R636,R637
Other Resistors

RS1/4S0R0J
RS1/4SA240J
RS1/4SA2R0J
RS1/16S###J

OTHERS

X101 CRYSTAL RESONATOR
(65.975 MHz)
X401 CERAMIC OSCILLATOR
(16.000 MHz)
X402 CRYSTAL RESONATOR
(16.9344 MHz)

DSS1144
CSS1616
VSS1084

CN502 CONNECTOR 9P
CN602 13P FFC CONNECTOR
CN604 4P FFC CONNECTOR
CN601 26P FFC CONNECTOR
CN401 13P FFC CONNECTOR

AKM1295
DKN1275
DKN1288
DKN1448
VKN1305

CN501 15P FFC CONNECTOR
CN603 CONNECTOR 2P
CN605 CONNECTOR 3P
CN503 CONNECTOR 6P

VKN1307
VKN1940
VKN1941
VKN1944

Mark No. Description**Part No.****B SLMB ASSY
SWITCHES AND RELAYS**

S2401,S2402

DSG1017

OTHERS

CN2401 CONNECTOR 3P

S3B-ZR

C SPCN ASSY**OTHERS**

CN3103 12P FFC CONNECTOR
CN3102 13P FFC CONNECTOR
CN3101 CONNECTOR 2P

DKN1205
DKN1275
VKN1940

**D INSW ASSY
SWITCHES AND RELAYS**

S3301

CSN1031

OTHERS

CN3301 CONNECTOR 2P

VKN1940

**E SDCB ASSY
SEMICONDUCTORS**

D3002,D3004,D3006,D3008
D3001,D3003,D3005,D3007

DAN202K
DAP202K

SWITCHES AND RELAYS

S3001

CSN1068

CAPACITORS

C3004
C3001-C3003

CEVW101M16
CKSRYB104K16

RESISTORS

All Resistors

RS1/16S####J

OTHERS

CN3001 SD CARD SLOT CONNECTOR
CN3002 13P CONNECTOR

DKP3748
VKN1305

**F MJCB ASSY
SEMICONDUCTORS**

△IC1513 (315 mA)
△IC1501 (800 mA)
△IC1502,IC1503 (1.6 A)
△IC1506,IC1514 (2 A)
△IC1507 (4 A)

AEK7003
AEK7008
AEK7012
AEK7013
AEK7018

△IC1504 (200 mA)
△IC1509
IC1512
Q1510
Q1511,Q1512

AEK7023
BA50BC0FP
NJM4580D
2SC2412K
2SC4081

| Mark No. | Description | Part No. |
|-------------------------|-------------|------------|
| △ Q1507 | | 2SD2012 |
| Q1505,Q1506,Q1508,Q1509 | | 2SD2144S |
| Q1504 | | DTA124EUA |
| Q1501-Q1503 | | DTC124EUA |
| D1504 | | 1SR154-400 |
| D1505,D1506 | | 1SS355 |
| D1503 | | NNCD6.2MF |
| D1501,D1502,D1508 | | UDZS9R1(B) |

CAPACITORS

| | |
|-------------------------|--------------|
| C1519,C1520,C1523,C1526 | CEANP101M10 |
| C1508,C1513 | CEAT221M16 |
| C1527 | CEAT470M16 |
| C1525 | CEHAT101M16 |
| C1524 | CEHAT220M63 |
| C1507 | CEHAZL100M50 |
| C1515,C1517 | CKSRYB103K50 |
| C1509-C1512,C1521 | CKSRYB104K16 |
| C1522 | CKSRYB104K25 |
| C1514 | CKSRYB223K50 |

| | |
|-------------------------|-------------|
| C1528,C1529 | CQMBA102J50 |
| C1502,C1503,C1505,C1506 | CQMBA471J50 |
| C1501,C1504 | CQMBA561J50 |

RESISTORS

| | |
|-------------------------|-------------|
| R1511,R1532 | RD1/2VM103J |
| R1503,R1508 | RD1/2VM113J |
| R1505,R1506,R1514,R1521 | RD1/2VM152J |
| R1561,R1562 | RD1/2VM220J |
| R1502 | RD1/2VM272J |

| | |
|-------------------------------|--------------|
| R1504,R1507,R1509,R1510,R1512 | RD1/2VM471J |
| R1519,R1563 | RD1/2VM471J |
| R1516,R1518,R1529,R1531 | RD1/2VM473J |
| R1540 | RS1/16S1801F |
| R1543 | RS1/16S3901F |

| | |
|-----------------|-------------|
| Other Resistors | RS1/16S###J |
|-----------------|-------------|

OTHERS

| | |
|----------------------------|-----------|
| JA1502 2P PIN JACK (AU) | AKB7164 |
| CN1503 CONNECTOR 11P | B11B-EH |
| CN1505 CONNECTOR 4P | B4B-PH-K |
| CN1507 CONNECTOR 6P | B6B-PH-K |
| CN1506 CONNECTOR 6P | B6B-ZR |
| CN1501 CONNECTOR 9P | B9B-PH-K |
| CN1504 22P FFC CONNECTOR | HLEM22S-1 |
| JA1503 1P PIN JACK | PKB1036 |
| JA1501 REMOTE CONTROL JACK | RKN1004 |
| CN1502 15P FFC CONNECTOR | VKN1246 |

MFLB ASSY SEMICONDUCTORS

| | |
|----------|--------------|
| IC1003 | BU4242G |
| △ IC1004 | NJM78L05UA |
| IC1002 | PEG237B-K |
| IC1001 | TC7SET08FUS1 |
| Q1016 | 2SB1237X |

| | |
|-------------------------|--------------|
| Q1001-Q1015 | DTC124EUA |
| D1010 | NSPB500-0008 |
| D1007,D1011,D1012,D1014 | SLI-343URCW |
| D1001-D1006,D1009,D1013 | SLI-343YCW |
| D1008,D1017,D1018 | SLR-343EBT |

| Mark No. | Description | Part No. |
|-------------|-------------|-----------|
| D1015,D1016 | | SLR-343MC |
| D1020 | | UDZS11(B) |

SWITCHES AND RELAYS

| | |
|-------------|---------|
| S1013-S1018 | DSG1079 |
| S1001 | DSH1049 |
| S1002-S1012 | VSG1024 |

CAPACITORS

| | |
|-------------|--------------|
| C1002,C1003 | CCSRCH101J50 |
| C1026,C1027 | CCSRCH150J50 |
| C1015 | CEAT101M16 |
| C1020 | CEHAT101M16 |
| C1019 | CEHAZL220M50 |

| | |
|-------------------------------|--------------|
| C1016,C1021-C1024 | CKSRYB102K50 |
| C1004,C1006-C1008,C1013,C1014 | CKSRYB103K50 |
| C1025 | CKSRYB103K50 |
| C1001,C1005,C1009-C1012,C1018 | CKSRYB104K16 |
| C1017 | CKSRYB104K50 |

RESISTORS

| | |
|-----------------------|-------------|
| R1091-R1098 | RS1/10S183J |
| R1063,R1078-R1084 | RS1/10S430J |
| VR1001,VR1002 (10k-B) | DCS1045 |
| Other Resistors | RS1/16S###J |

OTHERS

| | |
|------------------------------------|-------------|
| X1001 CRYSTAL RESONATOR (16.0 MHZ) | DSS1149 |
| 1004 2P CABLE HOLDER | 51048-0200 |
| J1006 9P CABLE HOLDER | 51048-0900 |
| J1 JUMPER WIRE 9P | D20PYY0915E |

| | |
|--------------------------|-----------|
| V1001 FL INDICATOR TUBE | DEL1057 |
| FL HOLDER | DNF1744 |
| CN1007 10P FFC CONNECTOR | HLEM10R-1 |
| CN1001 25P FFC CONNECTOR | HLEM25R-1 |
| CN1005 CONNECTOR 6P | S6B-PH-K |

SLDB ASSY SEMICONDUCTORS

| | |
|-------------|-----------|
| Q1201,Q1202 | DTC124EUA |
| D1201 | NNCD6.2MF |
| D1203 | SLR-343MC |
| D1202 | SLR-343VC |

SWITCHES AND RELAYS

| | |
|-------------|---------|
| S1201-S1203 | VSG1024 |
|-------------|---------|

CAPACITORS

| | |
|-------------|--------------|
| C1201 | CCSRCH101J50 |
| C1203 | CEHAT100M50 |
| C1204,C1205 | CKSRYB102K50 |
| C1202 | CKSRYB104K16 |

RESISTORS

| | |
|-----------------|-------------|
| VR1202 (1 k) | DCP1105 |
| VR1201 | DCV1013 |
| Other Resistors | RS1/16S###J |

OTHERS

| | |
|---------------------------|------------|
| CN1201 9PJUMPER CONNECTOR | 52151-0910 |
|---------------------------|------------|

Mark No. Description**Part No.****Mark No. Description****Part No.****I RSWB ASSY
SWITCHES AND RELAYS**

S1301

DSK1021

**L JOGB ASSY
SEMICONDUCTORS**

D2201

GP1A038RBK

OTHERSJ1301 2P CABLE HOLDER
J0 JUMPER WIRE 2P51048-0200
D20PYY0210E**CAPACITORS**

C2201,C2202

CKSRYB103K50

RESISTORS

All Resistors

RS1/16S###J

OTHERS

CN2201 CONNECTOR 4P

B4B-PH-K

J JFLB ASSY**SEMICONDUCTORS**△IC2001
Q2001
Q2002,Q2003
D2001NJM78L05UA
2SB1237X
2SC1815
UDZS6R8(B)**M SW POWER SUPPLY ASSY**

There is no service parts.

CAPACITORSC2004,C2005,C2011
C2006
C2001
C2003
C2002CEHAT101M16
CEHAZL100M50
CKSRYB104K16
CKSRYB104K50
CKSRYB223K25**RESISTORS**

All Resistors

RS1/16S###J

OTHERSCN2002 FFC CONNECTOR 22P
CN2001 FFC CONNECTOR 25P
CN2003 CONNECTOR
V2001 FL INDICATOR TUBE
FL HOLDER52492-2220
52492-2520
CKS1072
DEL1058
DNF1735

CN2004 CONNECTOR 4P

S4B-PH-K

**K KSWB ASSY
SEMICONDUCTORS**Q2301-Q2303
D2305-D2308
D2301-D2304
D2309,D2310DTC124EUA
SLI-343YCW
SLR-343EBT
SLR-343MC**SWITCHES AND RELAYS**S2301,S2302
S2303-S2306DSG1079
VSG1024**CAPACITORS**

C2301-C2303

CCSRCH101J50

RESISTORS

All Resistors

RS1/16S###J

OTHERS

CN2301 FFC CONNECTOR 10P

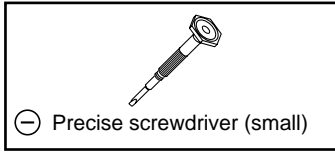
HLEM10R-1

6. ADJUSTMENT

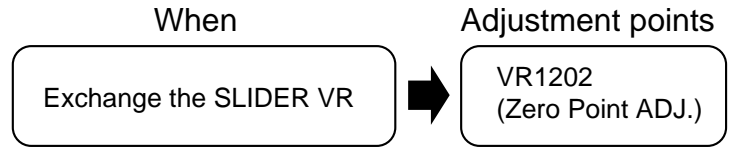
6.1 TEMPO ZERO POINT ADJUSTMENT



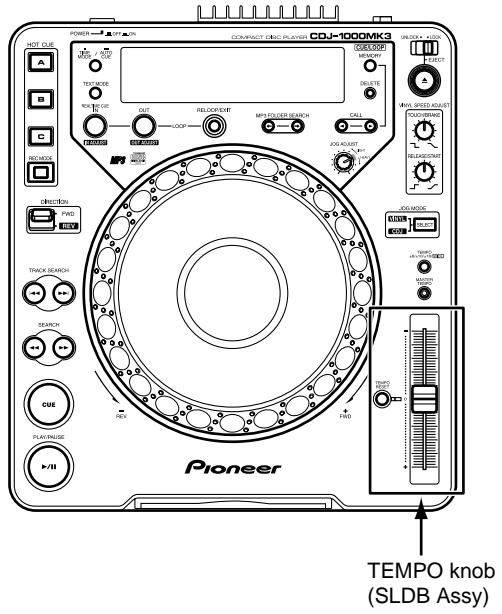
■ Jig



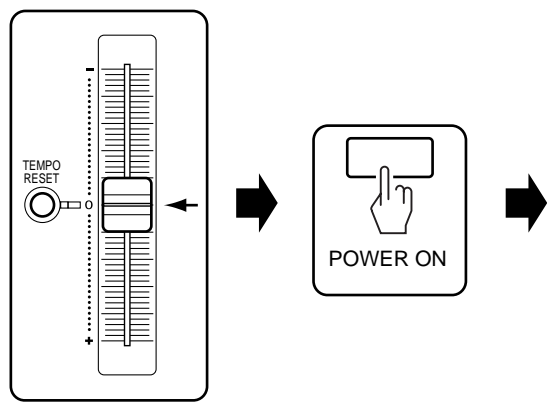
■ Necessary Adjustment Points



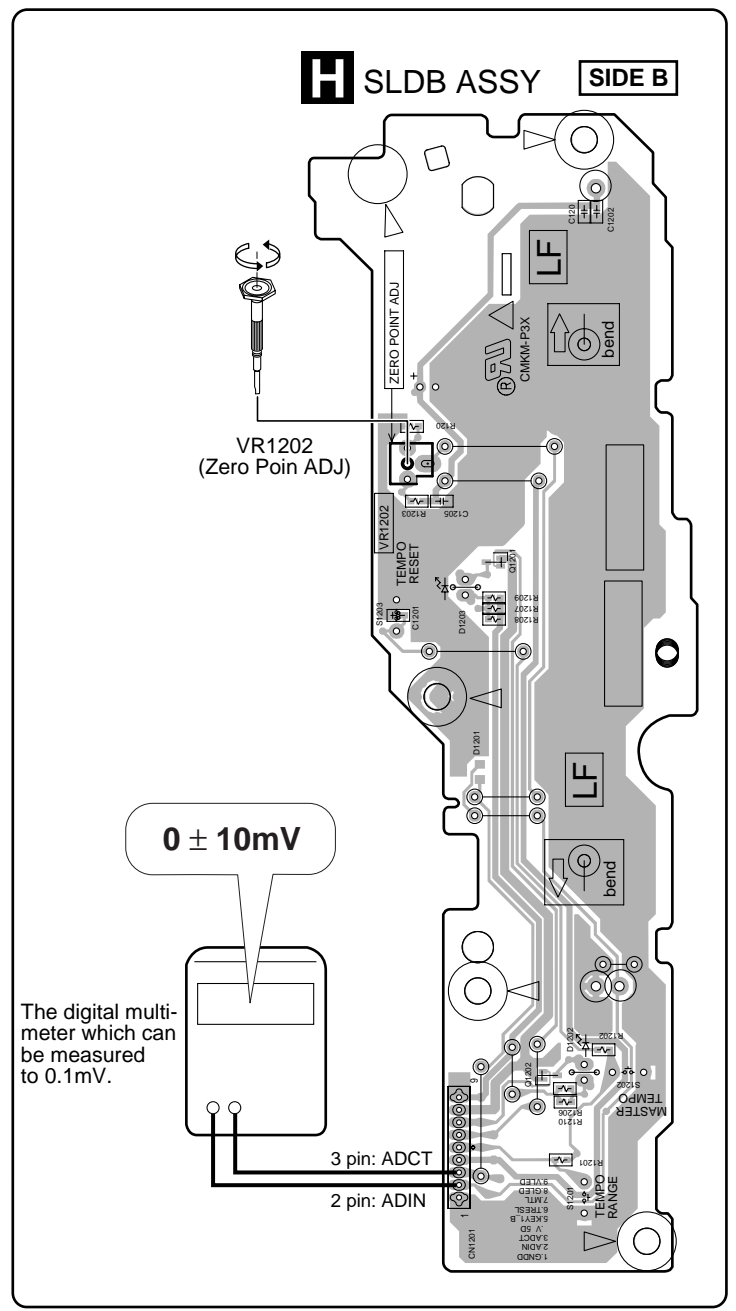
■ Adjustment and Check Points



Zero Point ADJ.



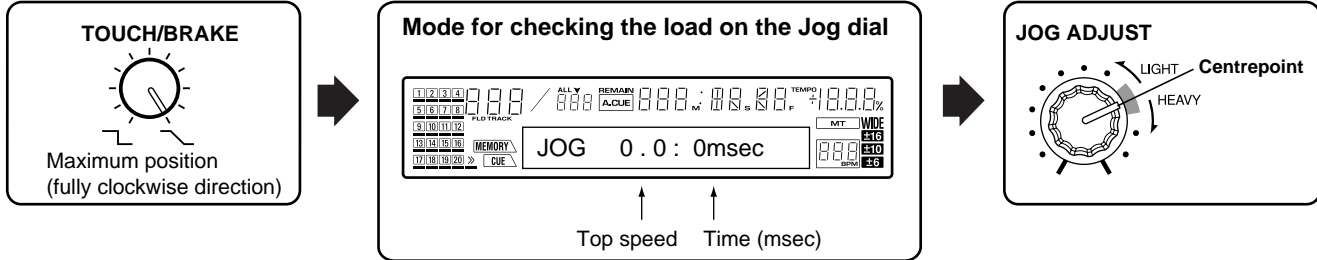
Set the TEMPO knob to the center "0" point.



6.2 MODE FOR CHECKING THE LOAD ON THE JOG DIAL

- It is the mode which judges the load (light/-- heavy) numerically when rotating JOG dial.

JOG Check Mode : ON



Measuring method

Enter this mode, and a number will be displayed if JOG dial is turned with sufficient vigor. The rotation direction -- clockwise direction and counterclockwise direction -- either is O.K.

For example, when displayed as "JOG 8.6: 115msec", the following contents are shown, respectively.

8.6 = What time speed came out by the highest. (The time of turning one rotation in 1.8 seconds is made into 1 time.)

115 = Time taken for rotation to fall by 1.5 times from 3 times (msec)

It is necessary to make it rotate top speed to 7.0 or more times to measure the rotation fall time required.

When it carries out continuously several times, the time which took the average with a part for greatest ever 4 time is displayed 2nd henceforth.

Measurement which absorbed variation can be performed by performing this.

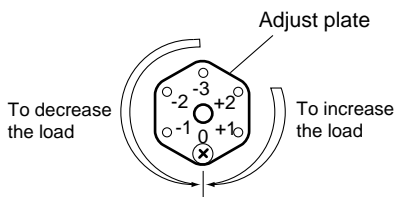
Jog Management Value : 150 ± 25 (msec) ← It judges by the 3rd measured value.

Load adjustment method

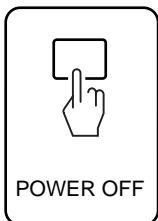
Remove the screw fixing the adjust plate, then screw it into the hole corresponding to the value (-1, -2, -3, +1, or +2) for a load to be added:

-1, -2, -3 : To decrease the load

+1, +2 : To increase the load



JOG Check Mode : CANCEL



7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 SERVICE MODE

1. Outline in Service Mode

The unit is provided with three microcomputers: a display microcomputer that controls key input and FL/LED display (operating section), a player microcomputer that drives the player, and a system control microcomputer that controls the whole system. The following test modes are provided for diagnosis of each microcomputer.

① **Mode for checking the version of the software program and error history**

In this mode, the version of the software program for each microcomputer can be checked. And up to 16 error logs can be checked.

② **Mode for checking the buttons in the display section and display functions**

In this mode, buttons and the display function associated with such input can be checked.

③ **Mode for checking the load on the Jog dial**

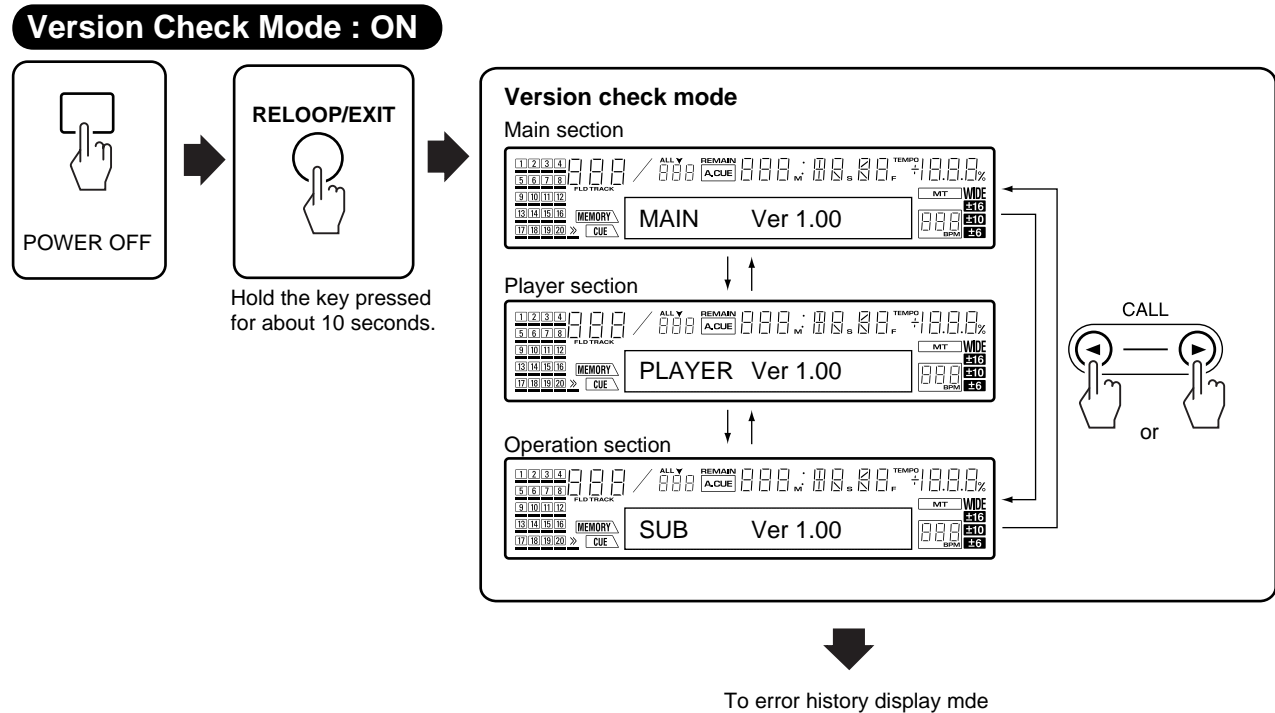
In this mode, the load on the Jog dial while it is rotated is measured.

④ **Mode for checking the operation of the player simple substance**

In this mode, operation check of the mechanism and servo of the Player section. This mode consists of "Player operation mode" and "Test operation mode."

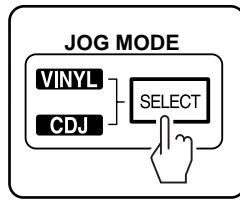
2. Mode for checking the version of the software program and error history

In this mode, the version of the software program for each microcomputer and the error history can be checked.

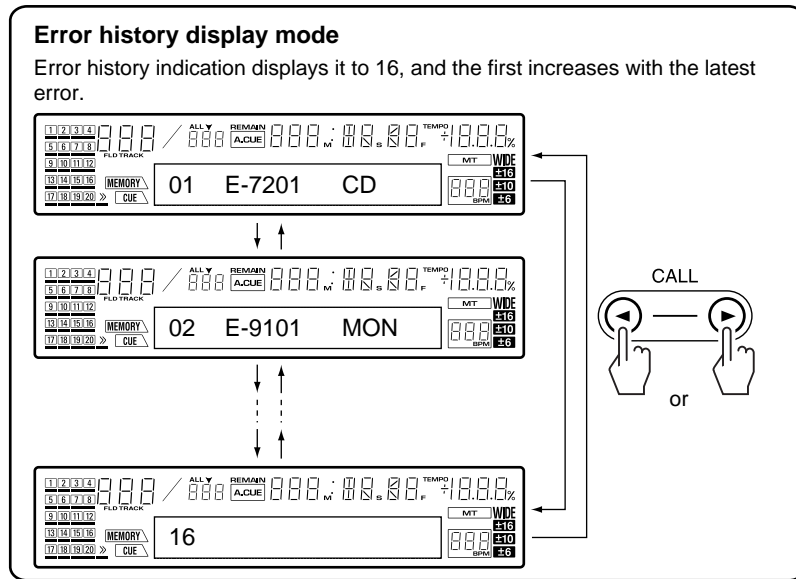


A

From version check mode



B



C

Version Check Mode : CANCEL

RELOOP/EXIT



D

List of error codes

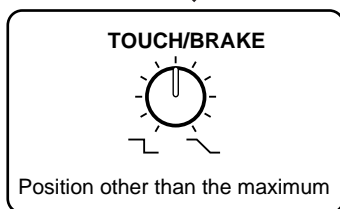
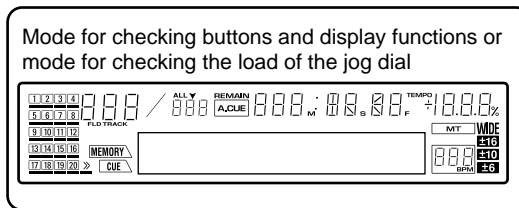
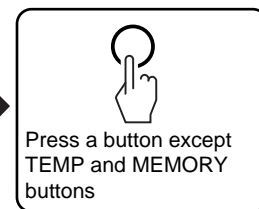
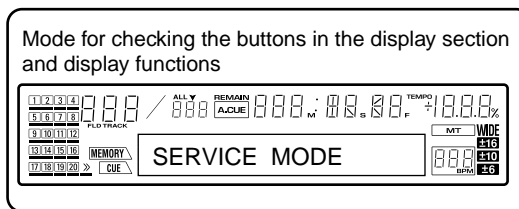
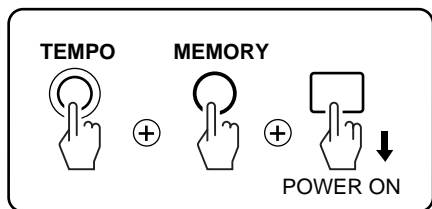
| Error Code | Error Description | Remarks |
|------------|---|--|
| E-7001 | ATAPI system (drive) error | Unrecoverable: Turn the power off. The error indication will be cleared. |
| E-7002 | DMA FPGA device error | Unrecoverable: Turn the power off. The error indication will be cleared. |
| E-7010 | TI DSP device error | Unrecoverable: Turn the power off. The error indication will be cleared. |
| E-7011 | MOT DSP device error | Unrecoverable: Turn the power off. The error indication will be cleared. |
| E-7012 | TE4300 device error | Unrecoverable: Turn the power off. The error indication will be cleared. |
| E-7015 | FPGA download error | Unrecoverable: Turn the power off. The error indication will be cleared. |
| E-7101 | Exception interrupt outbreak error | Unrecoverable: Turn the power off. The error indication will be cleared. |
| E-7201 | TOC not readable | The error indication is cleared when the EJECT process is finished. |
| E-8301 | Error during startup | The error indication is cleared when the EJECT process is finished or startup is completed successfully. |
| E-8302 | Error during playback | The error indication is cleared when the EJECT process is finished or startup is completed successfully. |
| E-8303 | Other error of the player section | The error indication is cleared when the EJECT process is finished or startup is completed successfully. |
| E-8304 | MP3 decode error | Display it in search for two seconds. Reproduction is con inued by possible data. |
| E-8305 | MP3 data format error | The error indication is cleared when the EJECT process is finished or startup is completed successfully. |
| E-8709 | Communica ion error between opera in sec ion and main section | The error indication is cleared when the communication is finished . |
| E-8709 | Error in mechanical operations | Unrecoverable: Turn the power off. The error indication will be cleared. |

F

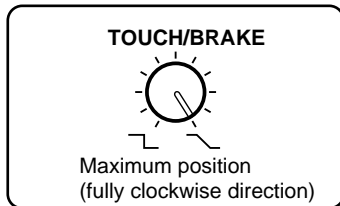
Notes: E-8304, E-8305 and E-8709 are not stored into the internal memory.

3. Mode for checking the buttons in the display section and display functions

Display Check Mode : ON

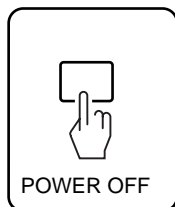


It will become the check mode of buttons and display functions, and if each button is pressed, FL display and LED which correspond light up.



It will become JOG load check mode, and top speed and time will be displayed on a FL dot-matrix part.

Display Check Mode : CANCEL



Display Check

| Button and Switch | FL Dot-matrix Display | FL Other Display | Light up LED |
|-----------------------|-----------------------|------------------|--------------------------------|
| ① PLAY/PAUSE | PLAY | | ① PLAY/PAUSE |
| ② CUE | CUE | | ② CUE |
| ③ IN/REALTIME CUE | IN | | ③ IN/REALTIME CUE |
| ④ OUT/OUT ADJUST | OUT | | ④ OUT/OUT ADJUST |
| ⑤ RELOOP/EXIT | RELOOP | | ⑤ RELOOP |
| ⑥ FOLDER ← | FOLDER ← | ⑥ 15G lights up | |
| ⑦ FOLDER → | FOLDER → | ⑦ 16G lights up | |
| ⑧ TRACK (←←) | TRACK ←← | ⑧ 14G lights up | |
| ⑨ TRACK (→→) | TRACK →→ | ⑨ | |
| ⑩ REV (←←) | REV ←← | ⑩ | |
| ⑪ FWD (→→) | FWD →→ | ⑪ | |
| ⑫ HOT CUE (A) | HOT CUE A | | ⑫ HOT CUE (A), (B), (C) Red |
| ⑬ HOT CUE (B) | HOT CUE B | | ⑬ HOT CUE (A), (B), (C) Green |
| ⑭ HOT CUE (C) | HOT CUE C | | ⑭ HOT CUE (A), (B), (C) Orange |
| ⑮ REC MODE | REC MODE | | |
| ⑯ JOG MODE | JOG MODE | ⑯ | ⑯ VINYL |
| ⑰ TEMPO | TEMPO | | ⑰ CDJ |
| ⑱ MASTER TEMPO | MASTER TEMPO | | ⑱ MASTER TEMPO |
| ⑲ TEMPO RESET | TEMPO RESET | | ⑲ TEMPO RESET |
| ⑳ TIME MODE/AUTO CUE | TIME/ACUE | | |
| ㉑ TEXT MODE | TEXT/WAVE | | |
| ㉒ DELETE | All FL lights up | All FL lights up | All LED lights up *Note |
| ㉓ MEMORY | MEMORY | | ㉓ CARD |
| ㉔ EJECT | EJECT | | |
| ㉕ CUE/LOOP CALL ◀ | CALL ◀ | | |
| ㉖ CUE/LOOP CALL ▶ | CALL ▶ | | |
| | | | |
| ㉗ TOUCH SENSOR | TOUCH SW | ㉗ | |
| | | | |
| ㉘ JOG rotating to FWD | JOG > | | |
| ㉘ JOG rotating to REV | < JOG | | |
| | | | |
| ㉙ DIRECTION Reverse | | | ㉙ REV |
| ㉚ EJECT LOCK | lock | | |

* **Notes:** As for HOT CUE button LED, as for HOT CUE(A), red, HOT CUE(B) are green, and LED of an orange turns on HOT CUE(C).

• **A display of TOUCH/BRAKE, RELEASE/START and TEMPO slider reading value**

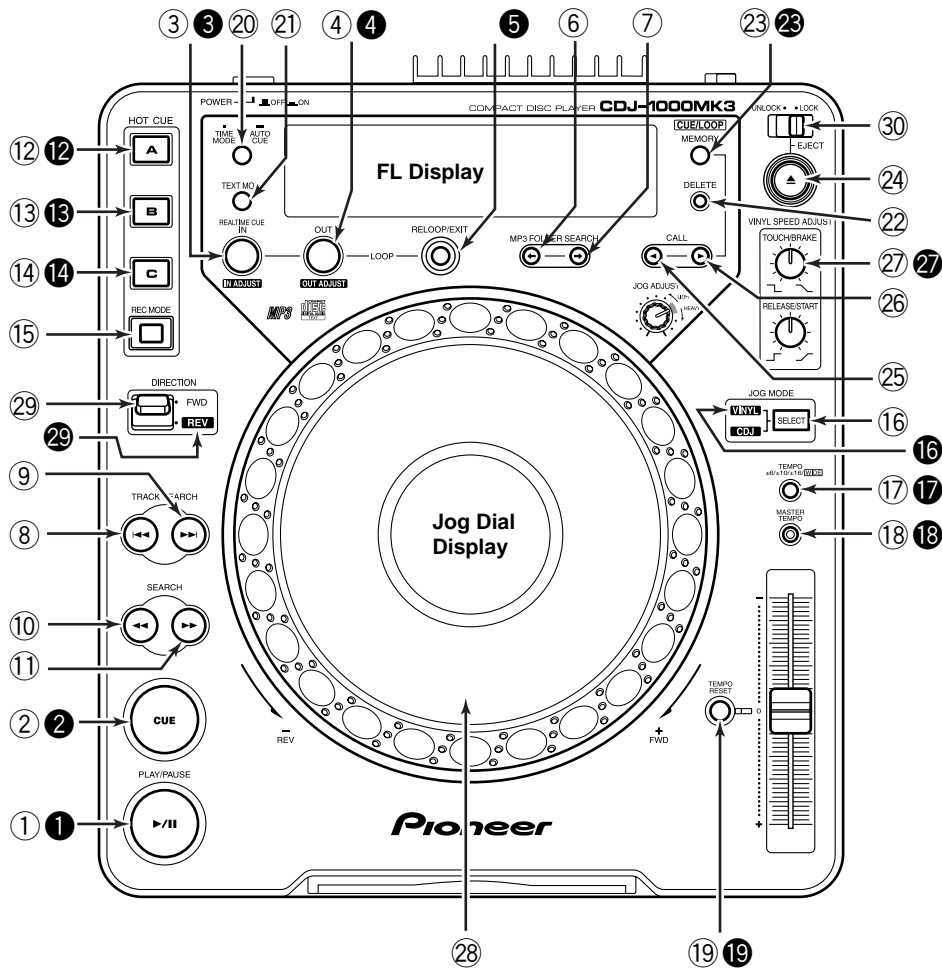
In the following area of FL indication department, a bar displays TOUCH/BRAKE, RELEASE/START, a TEMPO slider reading value.

MEMORY Area : If a TOUCH/BRAKE knob is turned to the clockwise direction, the number of display dots will increase.

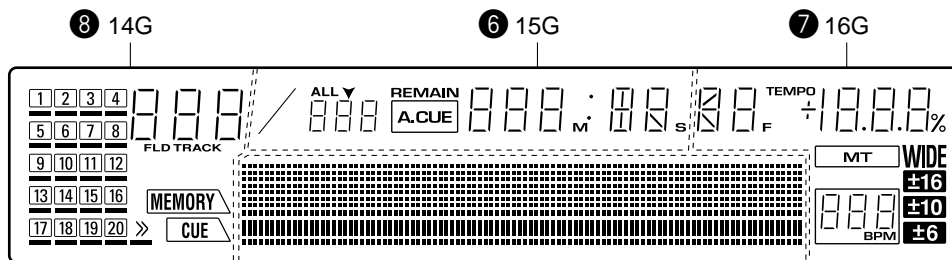
CUE Area : If a RELEASE/START knob is turned to the clockwise direction, the number of display dots will increase.

Playing Address : If a TEMPO slider knob is moved to + side, the number of display dots will increase.

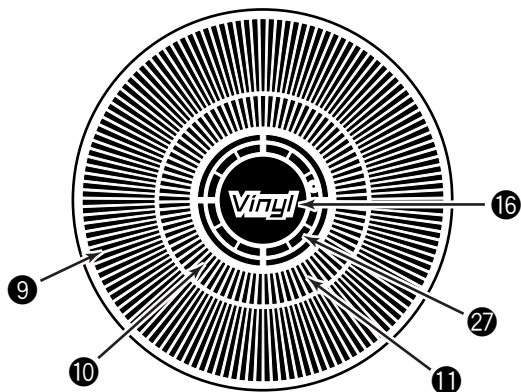
• Upper Panel



• FL Display



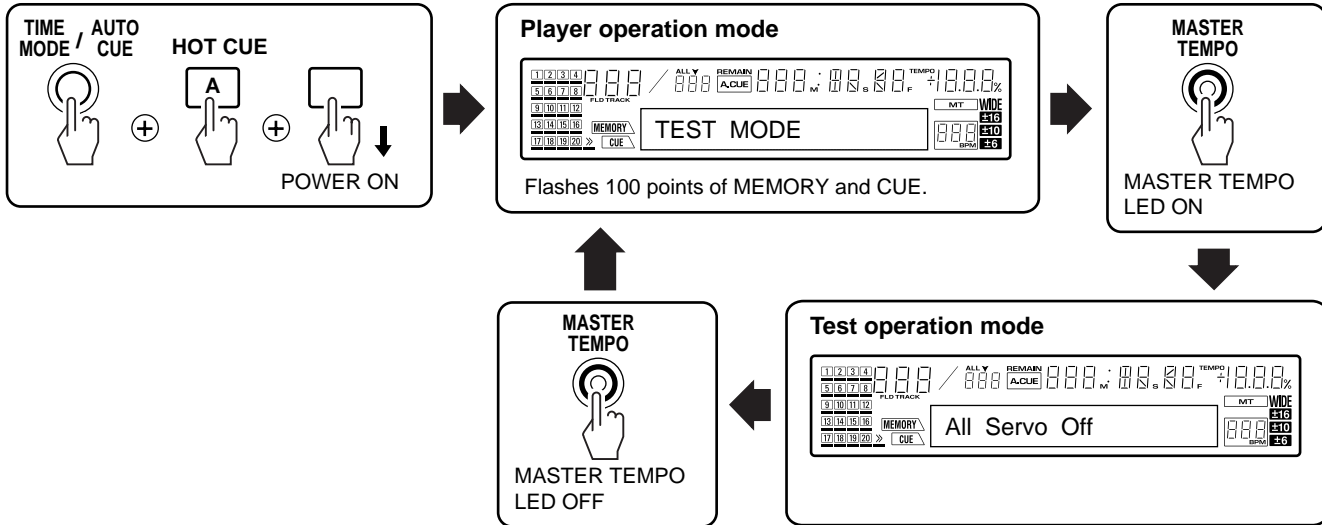
• Jog Dial Display



4. Mode for checking the operation of the player simple substance

This mode consists of "Player operation mode" and "Test operation mode."

Player operation mode: ON



Player operation mode: CANCEL



<Player operation mode>

Basic operation of the servo, such as setup, play, pause, and track search, is carried out. Moreover, measurement of an error rate can also be performed.

<Test operation mode>

Servo operation is finely controllable gradually.

* It becomes player operation mode and shifts to test operation mode by the key input in the beginning.

* The command treated here is for mainly testing a mechanism and a servo system, and is not for DJ functions, such as scan and tempo.

• Player operation mode

| Function | Button of the Main Unit |
|---------------------|-------------------------|
| Play(trace) / Pause | PLAY/PAUSE |
| Track Search F/R | TRACK SEARCH ►►/◄◄ |
| Error Rate Count | CUE |
| Eject | EJECT |
| Mode Change | MASTER TEMPO |

• Test operation mode

| Function | Button of the Main Unit |
|-----------------|-------------------------|
| Servo All Off | TIME |
| Slider Move Fwd | SEARCH ►► |
| Slider Move Rev | SEARCH ◄◄ |
| Step Command | FOLDER SEARCH ◄/► |
| Mode Change | MASTER TEMPO |

• Commands in Player Operation mode

Play (trace)/Pause

If the unit is in Stop mode when this command is issued, the unit is set up, the PLAY/PAUSE button lights, then playback starts. If the unit is in Playback mode, it enters Pause mode. If in Pause mode, it releases Pause mode then restarts playback. When a CD is played, the progress of signal trace and track number are indicated on the FL display.

Note: In this mode, auto setup will not be performed even if a disc is loaded. Playback does not mean audio playback but tracing of the signal surface of a disc. In playback, tracing is performed at 4000 rpm CAV.

Track Search F/R

For a CD, the displayed track is searched in the forward or reverse direction, then the unit will pause.

Note: When a CD-ROM (MP3) is used, track search cannot be performed.

Error Rate Count

For a CD, the error rate is measured for about 20 seconds from the current playback/pause position, then the result is displayed on the FL display. Normally, you would search the track for which you wish to measure the error rate, pause the unit, then press the CUE button. The result of measurement will be displayed, for example, as "3.56E-4 OK."

If the error rate is 3.00E-3 or less, that CD is judged okay. If it is greater than 3.00E-3, the CD is considered defective.

The parameter is derived from the results of measurements with control discs at the factory.

This function must not be used for judgment of failure of a product during servicing.

Eject

To eject a disc.

Mode Change (to shift to Test Operation mode)

When the MASTER TEMPO button is pressed during normal player operation, the MASTER TEMPO LED lights. Playback is stopped, and the unit shifts to Test Operation mode, described below. "All Servo Off" is displayed on the FL display.

• Commands in Test Operation mode

Servo operations can be controlled step by step. Care must be taken when using a command in Test Operation mode, because a wrong command may damage the player.

Servo All Off

When the TIME button is pressed during Servo ON, all the servos are shut off.

"All Servo Off" is displayed on the FL display while the TIME button is held pressed. If it is held pressed for less than 1 second, the indication will remain displayed for 1 second.

Slider Move Fwd

Each time the SEARCH FWD button is pressed, the slider moves about 1.8 mm outward.

"Slider Move Fwd" is displayed on the FL display while the SEARCH FWD button is held pressed. If it is held pressed for less than 1 second, the indication will remain displayed for 1 second.

Slider Move Rev

Each time the SEARCH REV button is pressed, the slider moves about 1.8 mm inward.

"Slider Move Rev" is displayed on the FL display while the SEARCH REV button is held pressed. If it is held pressed for less than 1 second, the indication will remain displayed for 1 second.

Step command

A series of operations for startup will be performed step by step.

Each time the FOLDER SEARCH FWD button is pressed, the step is advanced. Each time the FOLDER SEARCH REV button is pressed, the step is reversed. Each step and its operation is shown in the table below:

A

| Step | Operation | FL Display |
|---------|----------------------------------|---------------|
| STEP0: | Servo All Off | All Servo Off |
| STEP1: | Laser diode on | STEP1 LD |
| STEP2: | Disc presence judgment | STEP2 D.SENSE |
| STEP3: | Spindle on (2000rpm) | STEP3 SPDL |
| STEP4: | Disc search | STEP4 D.SRCH |
| STEP5: | Focus serve on | STEP5 FCS |
| STEP6: | Focus position coarse adjustment | STEP6 F.POS |
| STEP7: | Tracking balance adjustment | STEP7 T.BAL |
| STEP8: | Tracking servo on | STEP8 TRK |
| STEP9: | Focus position adjustment | STEP9 F.POS |
| STEP10: | Focus gain adjustment | STEP10 F.GAIN |
| STEP11: | Tracking gain adjustment | STEP11 T.GAIN |
| STEP12: | Address lead start | STEP12 READ |

FOLDER SEARCH FWD button : step up
 FOLDER SEARCH REV button : step down

"All Servo Off" is displayed for about 1 second. The indications for steps 1 to 12 are displayed on the FL display until the next step is entered.

Mode Change (termination of Test Operation mode)

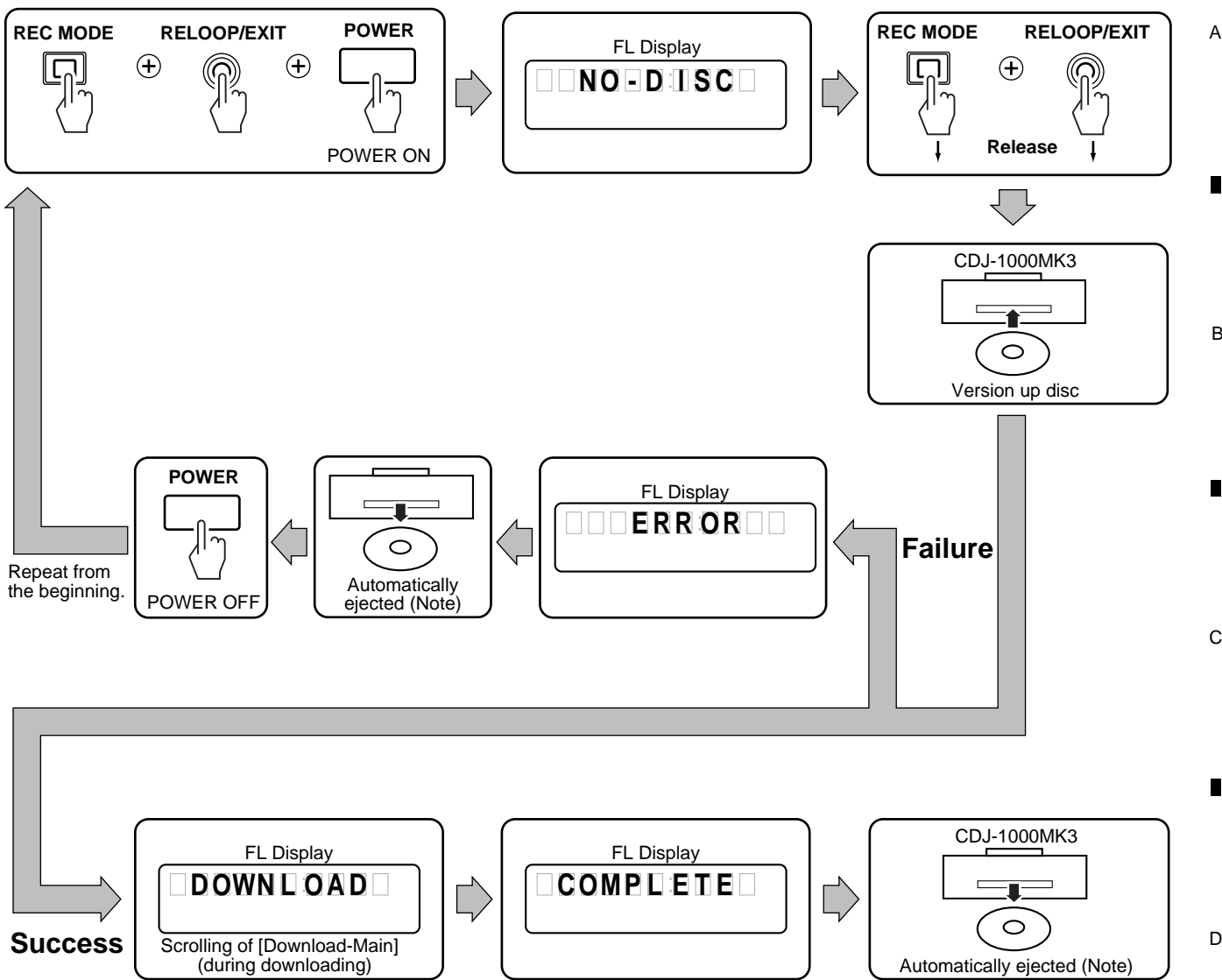
When the MASTER TEMPO button is pressed during Test Operation mode, the MASTER TEMPO LED goes dark, the servo is stopped, then the unit shifts to Player Operation mode, described above.

D

E

F

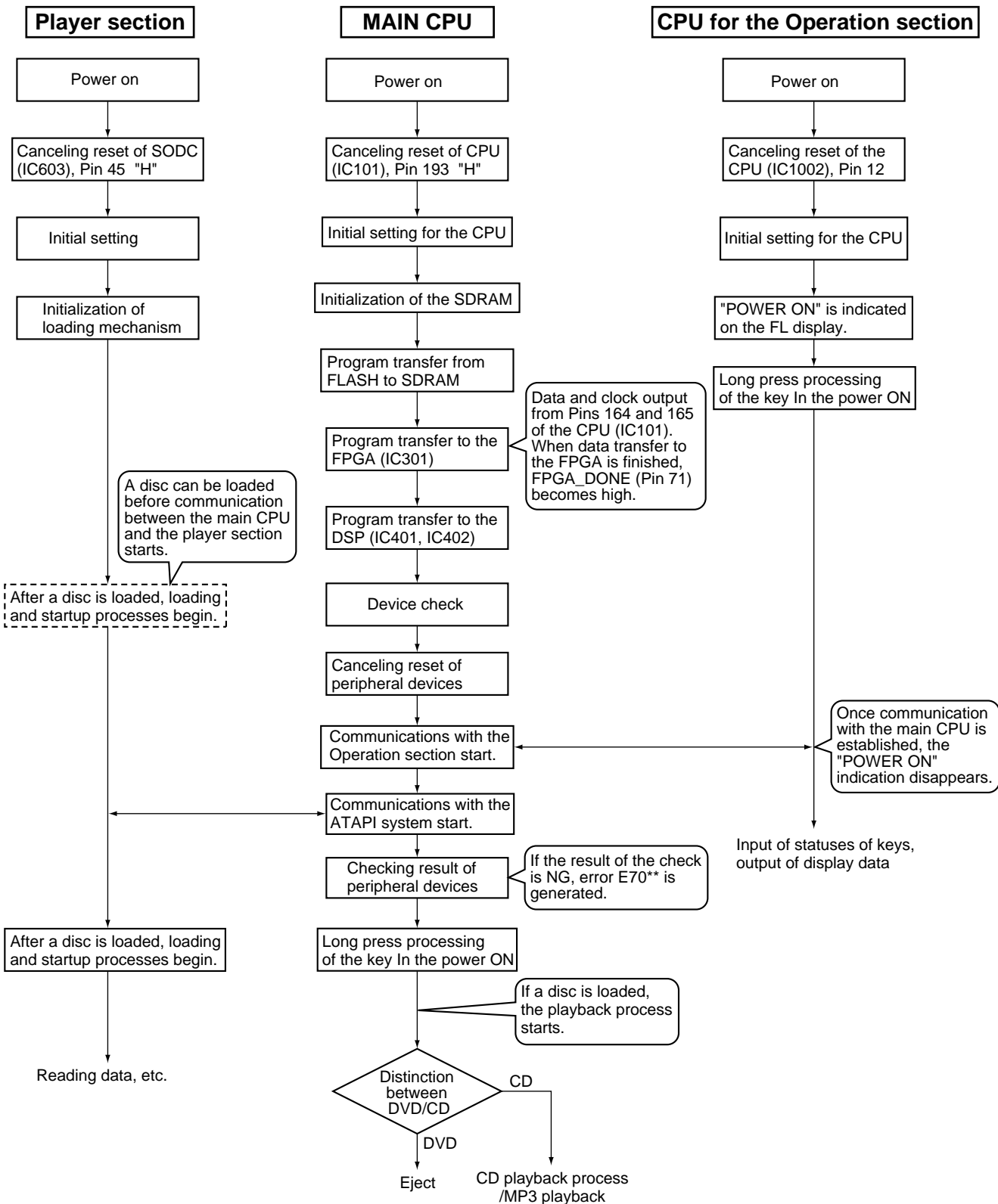
7.1.2 HOW TO UPGRADE THE SOFTWARE OF THE MICROCOMPUTER



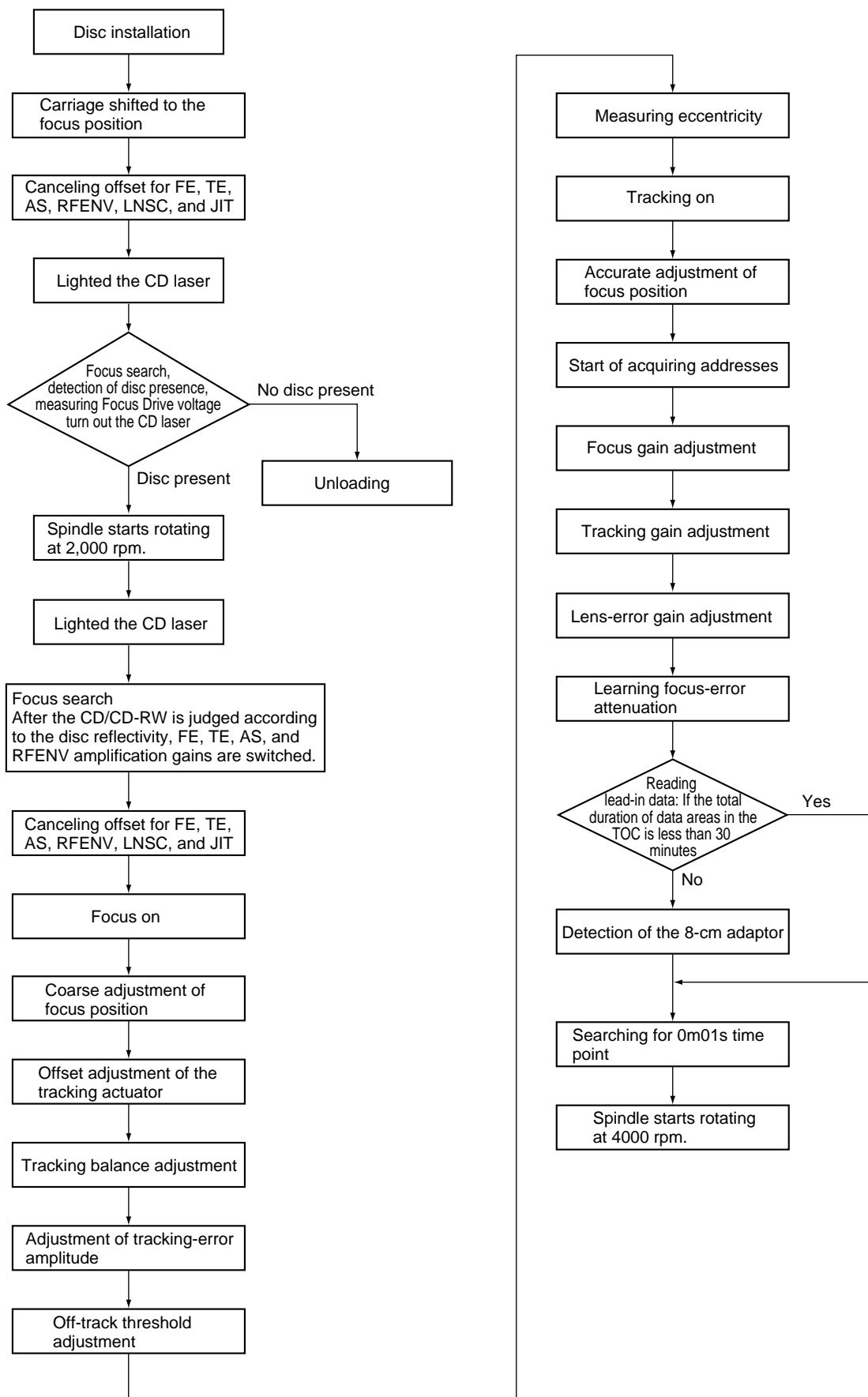
Note:

- Do NOT turn off the power after the upgrade disc is loaded till it is automatically ejected. If you do, the unit may not operate properly afterward.
- Eject a disc automatically even if updating fails.

● Power On Sequence



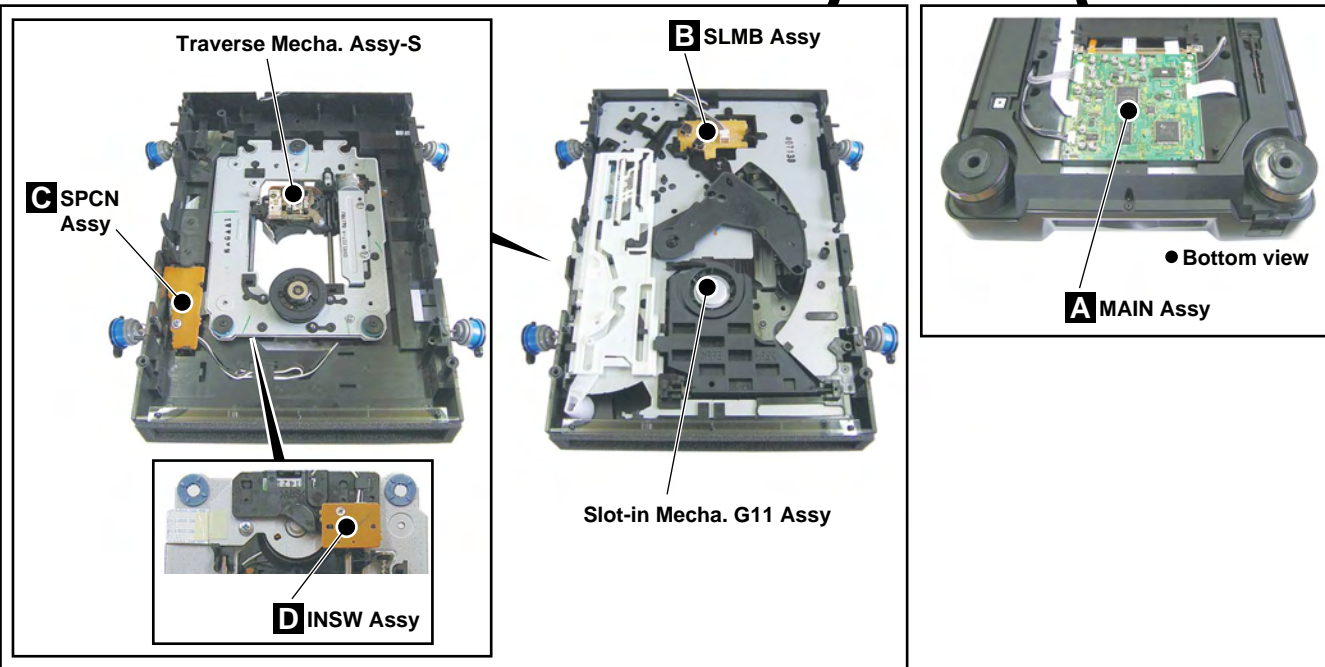
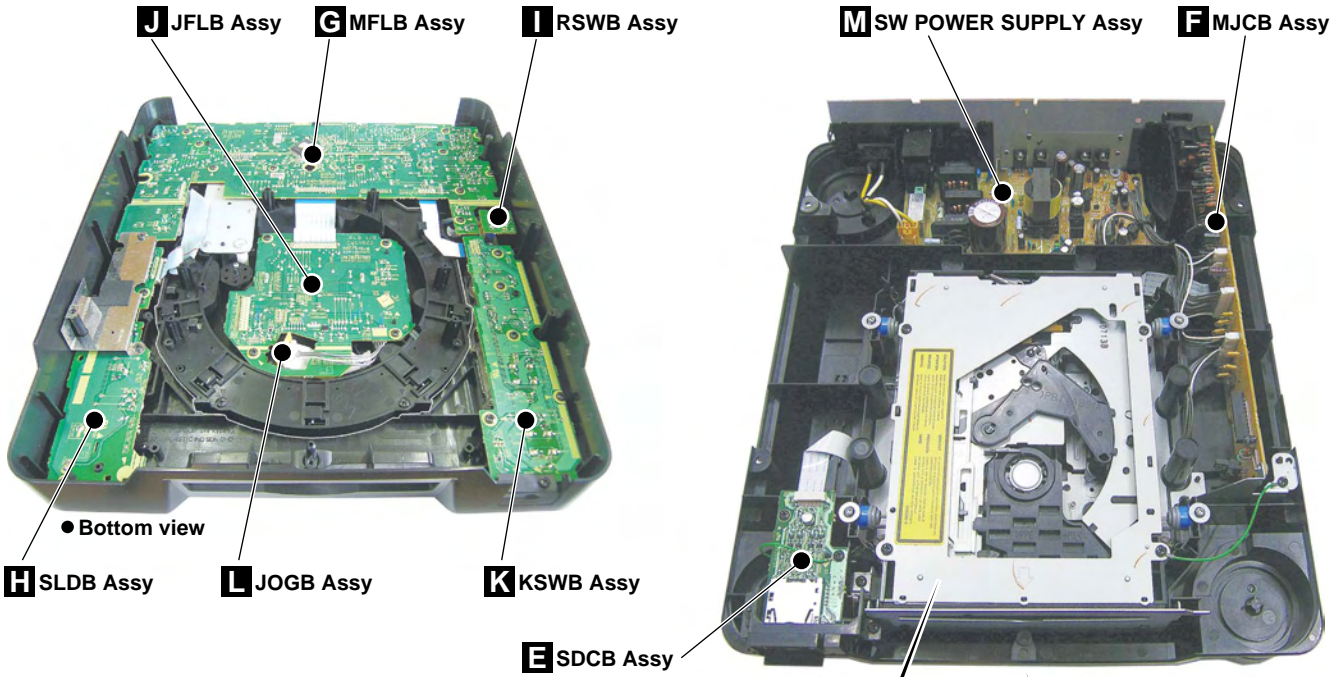
● Sequence of Starting Up the Drive



7.1.4 DISASSEMBLY

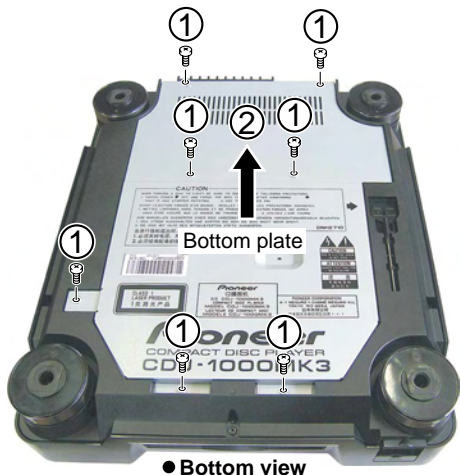
Note 1: Do NOT look directly into the pickup lens. The laser beam may cause eye injury.
Note 2: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

PCB Location

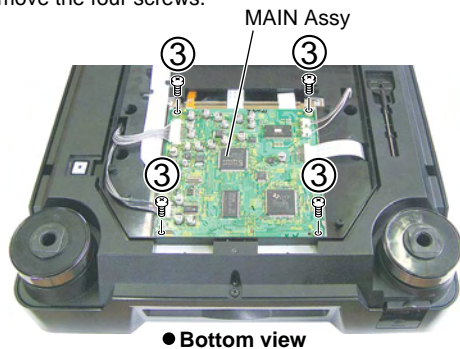


Diagnosis of MAIN Assy

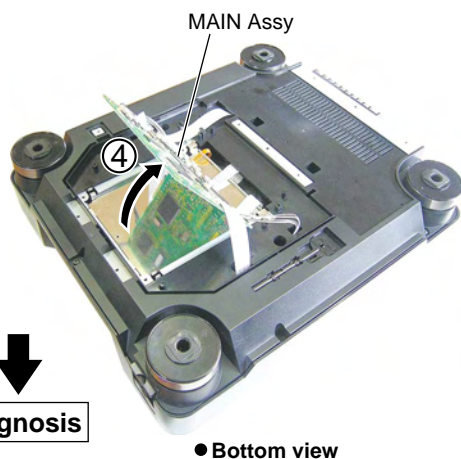
- ① Remove the seven screws.
- ② Remove the bottom plate.



- ③ Remove the four screws.

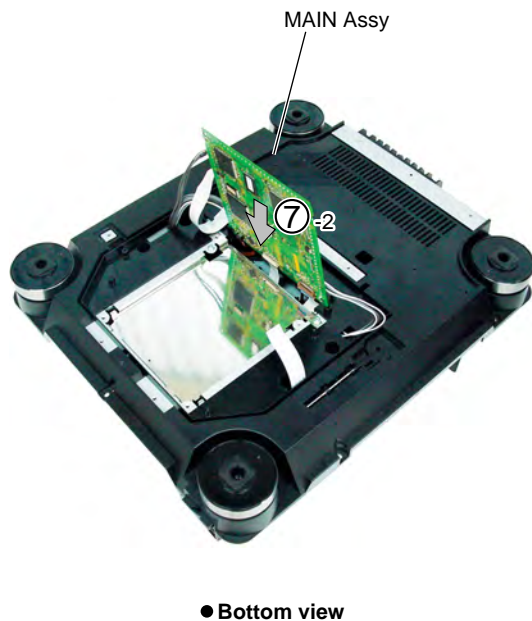
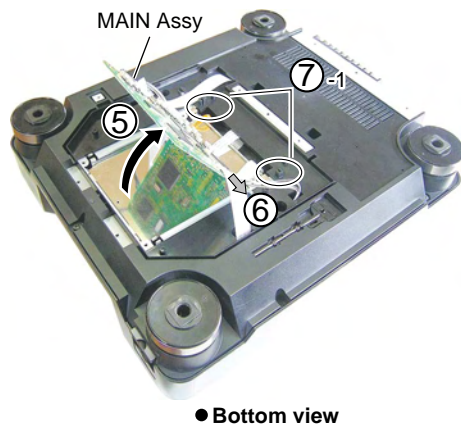


- ④ Stand the MAIN Assy.



Note:
If diagnosis of the SD card block is not required, the diagnostic procedures can be performed with the MAIN Assy kept in the upright position. Continue to Steps 5 through 7.

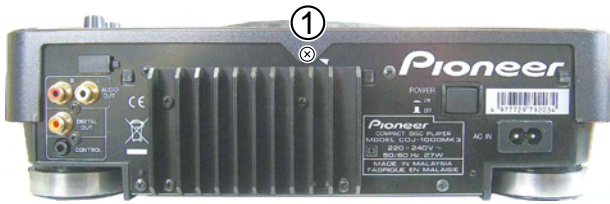
- ⑤ Stand the MAIN Assy.
- ⑥ Disconnect the flex ble cable: (CN401).
- ⑦ Set the MAIN Assy in the upright position, by engaging it at the two hooks.



A Disassembly

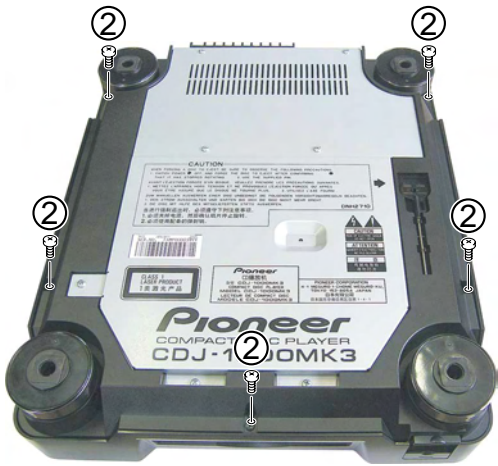
1 Control Panel Section

① Remove the one screw.



● Rear view

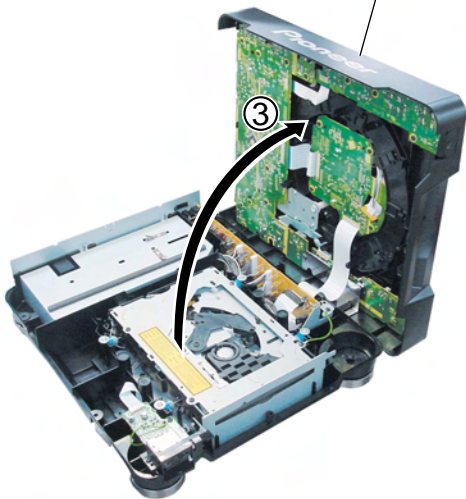
② Remove the five screws.



● Bottom view

③ Remove the control panel section.

Control panel section

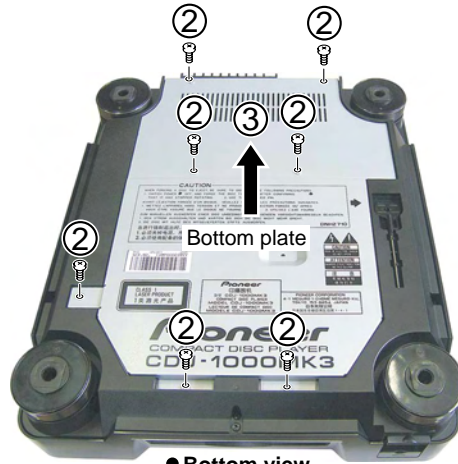


2 Slot-in Mecha. Section

① Remove the control panel section.
(Refet to "Control panel section".)

② Remove the seven screws.

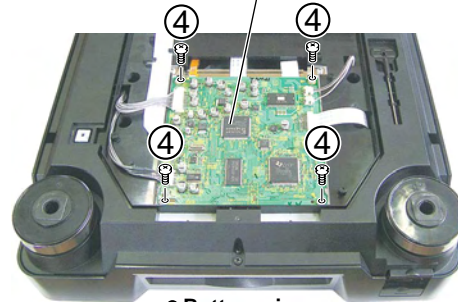
③ Remove the bottom plate.



● Bottom view

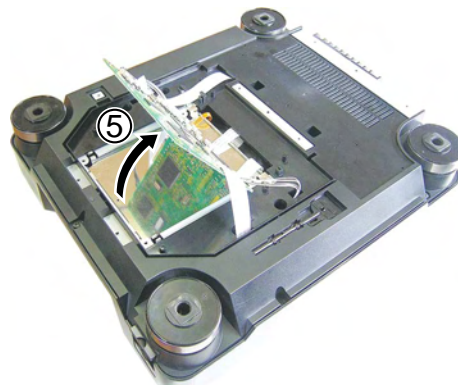
④ Remove the four screws.

MAIN Assy



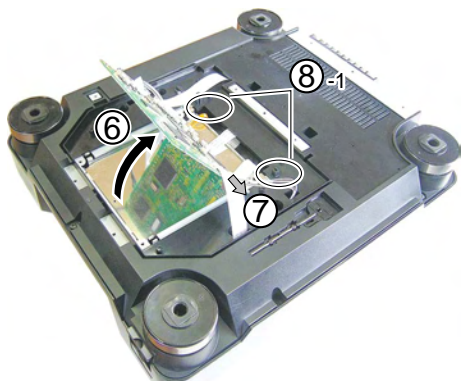
● Bottom view

⑤ Stand the MAIN Assy.

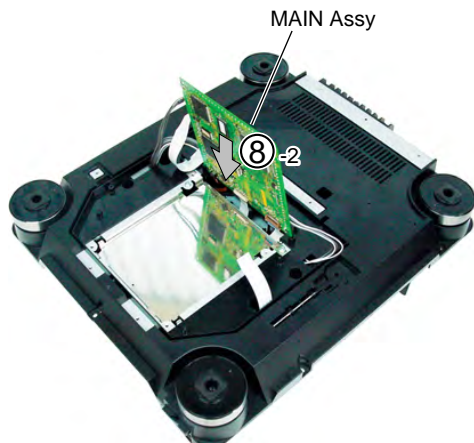


● Bottom view

- ⑥ Stand the MAIN Assy.
- ⑦ Disconnect the flexible cable (CN401).
- ⑧ Set the MAIN Assy in the upright position, by engaging it at the two hooks.

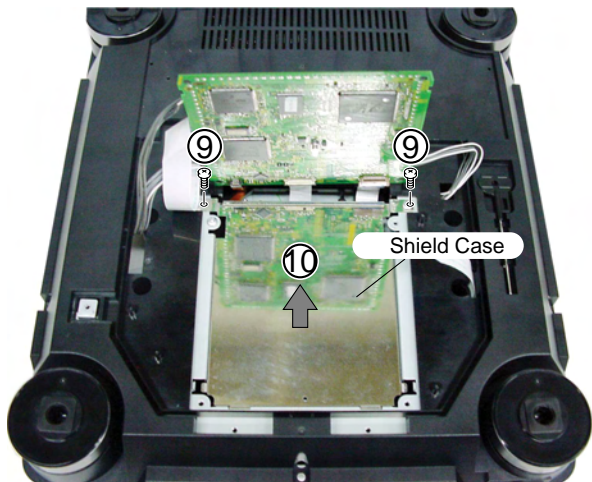


● Bottom view



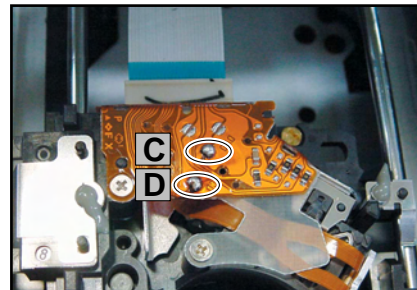
● Bottom view

- ⑨ Remove the two screws.
- ⑩ Remove the shield case.

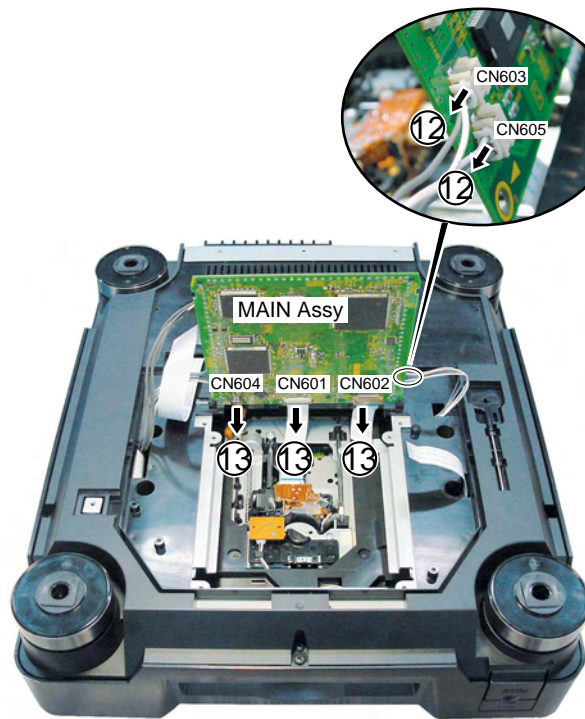


- ⑪ Short-circuit two points of C and D soldering.

Note: After replacement, connect the flexible cable, then remove the soldered joint (open).



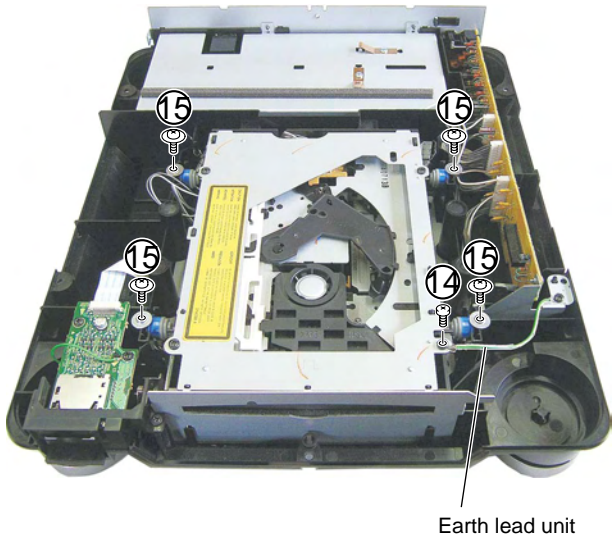
- ⑫ Disconnect the two connectors.
- ⑬ Disconnect the three flex ble cables.



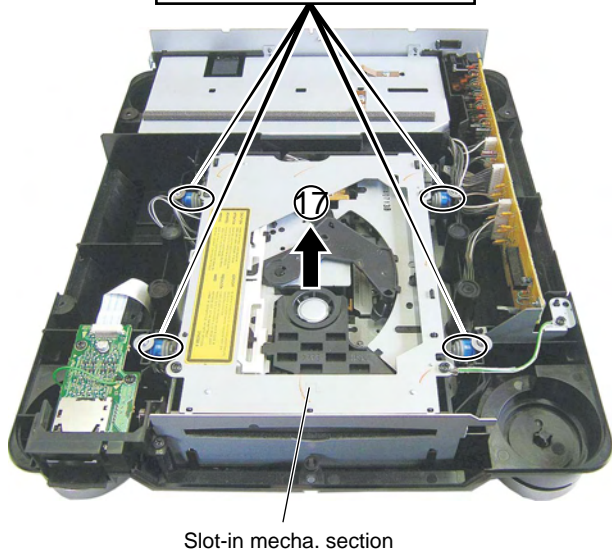
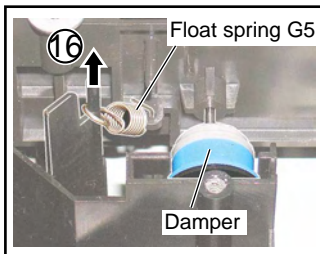
● Bottom view

A

- ⑭ Remove the earth lead unit by removing the one screw.
- ⑮ Remove the four DM screws.

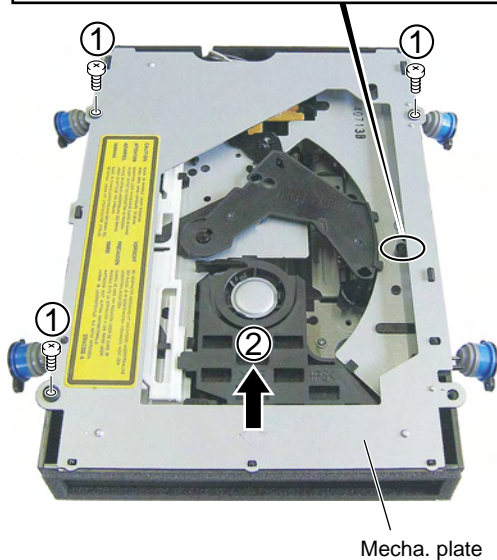
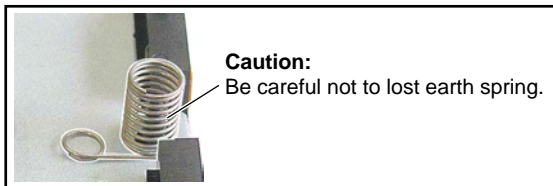


- ⑯ Remove the four float spring G5s.
- ⑰ Remove the slot-in mecha. section.

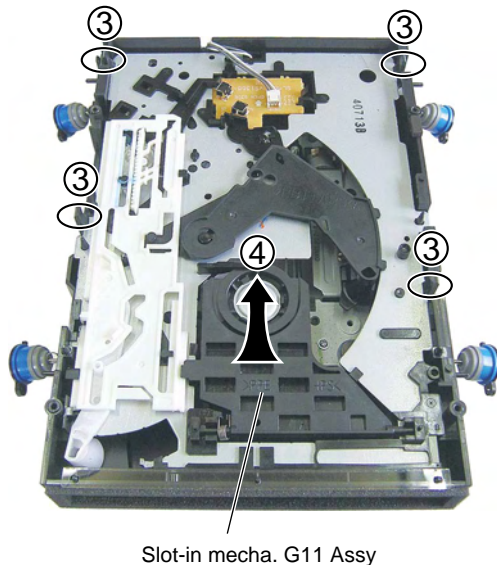


3 Traverse Mecha. Assy-S

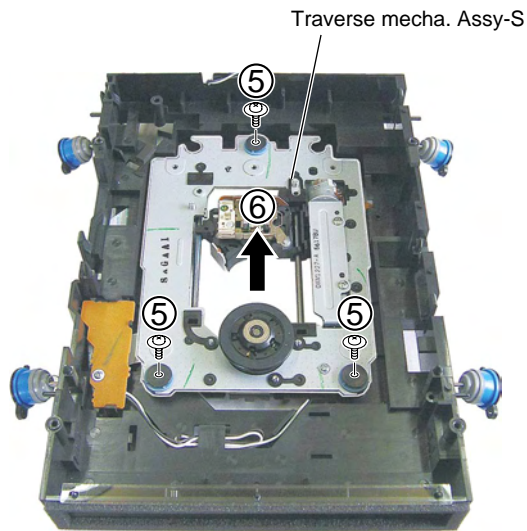
- ① Remove the three screws.
- ② Remove the mecha. plate.



- ③ Unhook the four hooks.
- ④ Remove the slot-in mecha. G11 Assy.

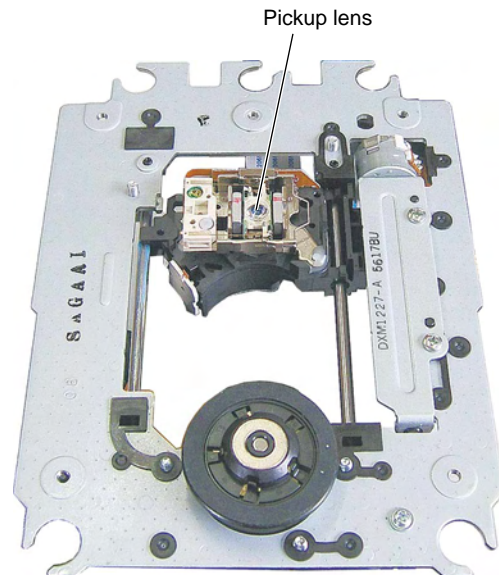


- ⑤ Remove the three float screws.
- ⑥ Remove the traverse mecha. Assy-S.



Before shipment, be sure to clean the pickup lens, using the following cleaning materials:

- Cleaning liquid : GEM1004
- Cleaning paper : GED-008



4 JOG Section

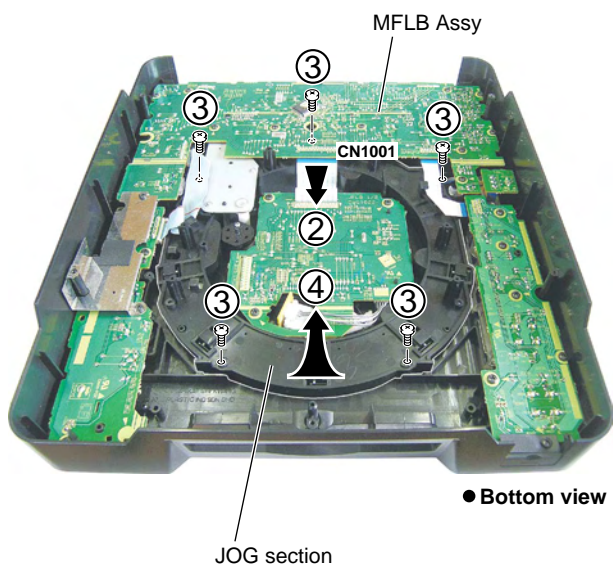
① Remove the adjust knob.



② Disconnect the flex ble cable.

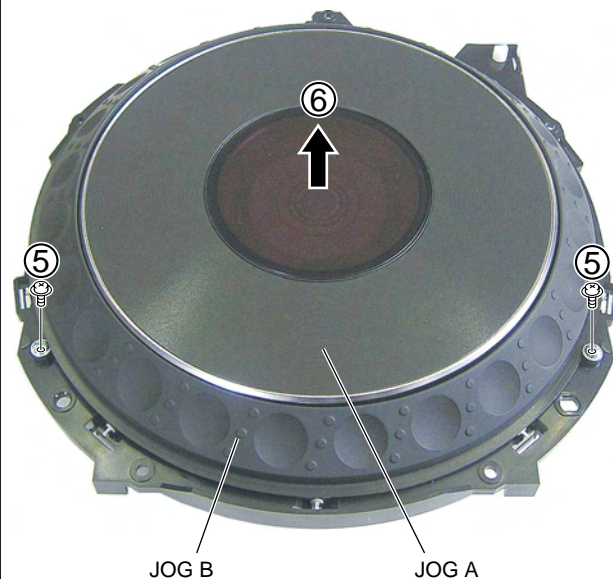
③ Remove the five screws.

④ Remove the JOG section.



⑤ Remove the two screws.

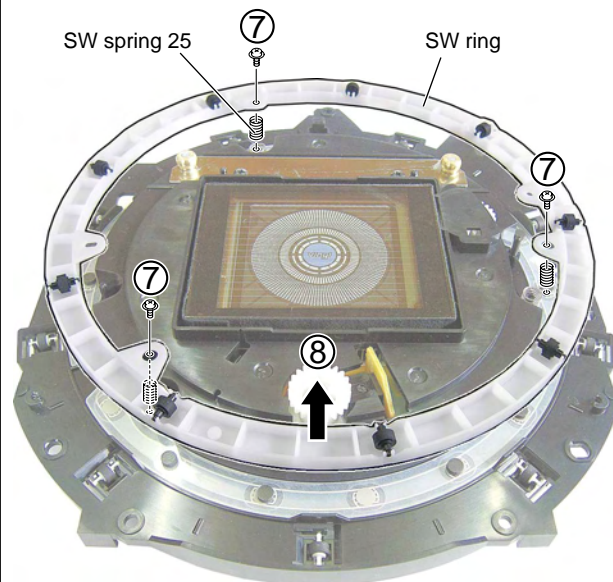
⑥ Remove the JOG A and JOG Bs.



⑦ Remove the three screws.

⑧ Remove the SW ring.

Caution:
Be careful not to lost SW spring 25.

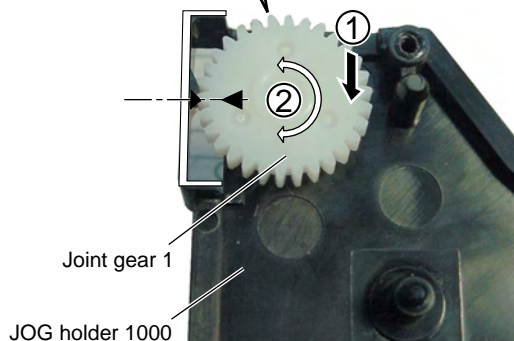
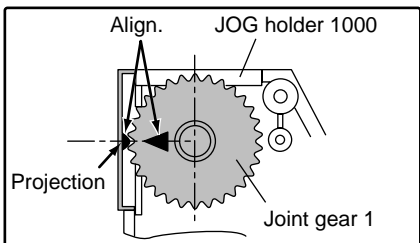


Notes on Replacement

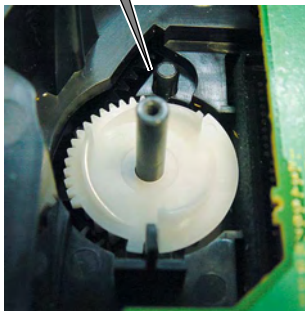
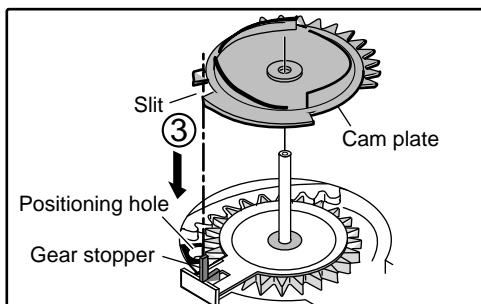
Positioning of the JOG ADJ. mechanism

Note: When reassembling the JOG ADJ. mechanism, be sure to perform positioning, as shown below:

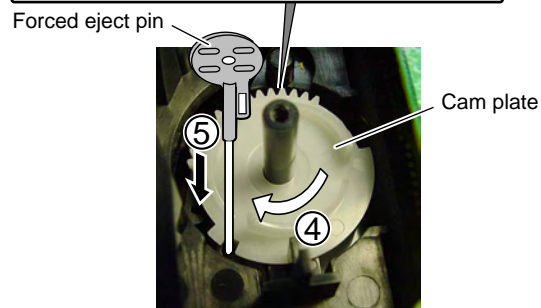
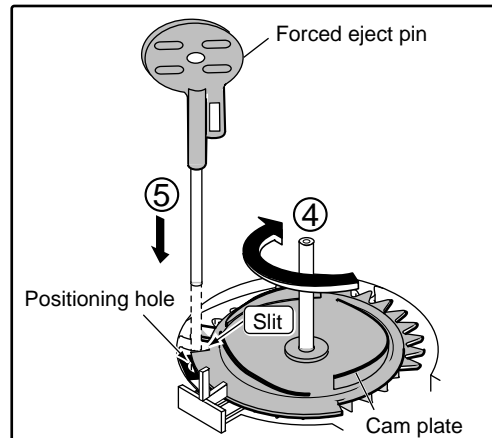
- ① Mount the joint gear 1.
- ② Align the projection of JOG holder 1000 (▶) with the arrow head (◀) on joint gear 1.



- ③ Mount the cam plate on place it so that the slit of the cam plate aligns with the gear stopper.

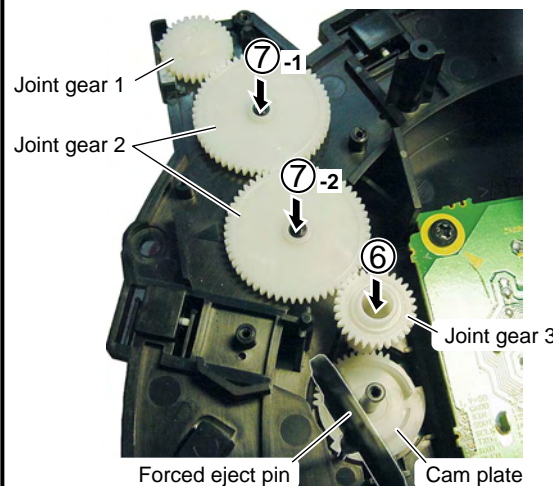


- ④ Turn the cam plate clockwise until the slit aligns with the positioning hole.
- ⑤ Insert the forced eject pin through the positioning hole to immobilize the cam plate.



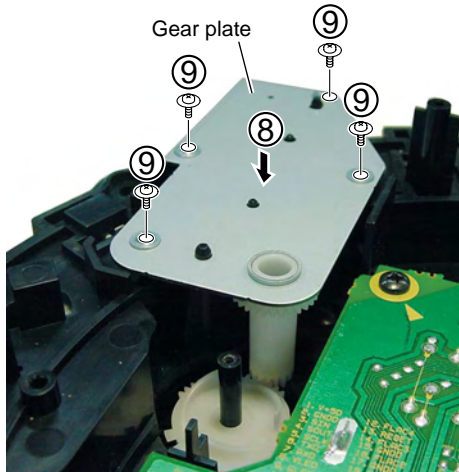
- ⑥ Mount the joint gear 3.
- ⑦ Mount the two joint gears 2.

Note: When mounting joint gears 2, engage the gears, being careful not to move joint gear 1.

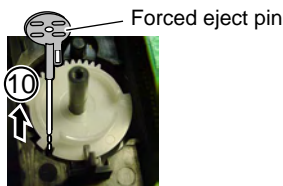


Notes on Replacement

- ⑧ Mount the gear plate.
- ⑨ Secure the gear plate, using the four screws.



- ⑩ Remove the forced eject pin.



- ⑪ Mount the cam plate.
- ⑫ Install the gear spring 200.
- ⑬ Mount the adjust plate.
- ⑭ Secure the adjust plate, using one screw.

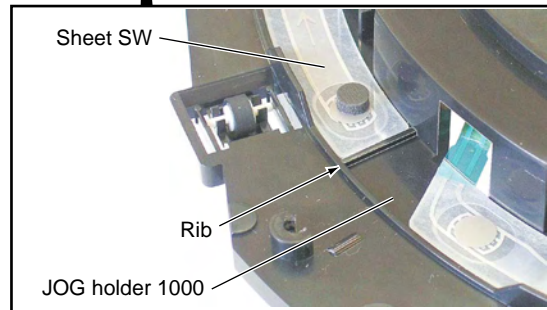
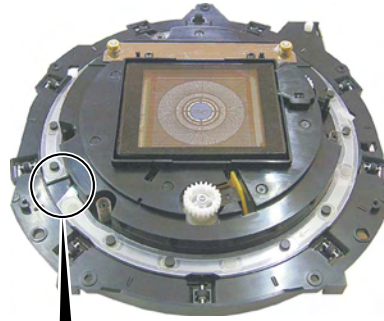
Note:
For details on adjustment, see "Load Check mode for the JOG Dial."

Notes on replacing the Sheet SW

● Place to adhere the Sheet SW

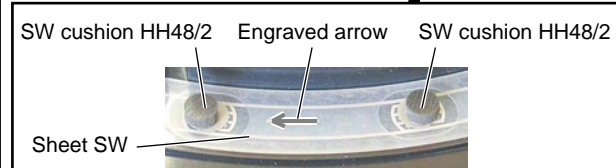
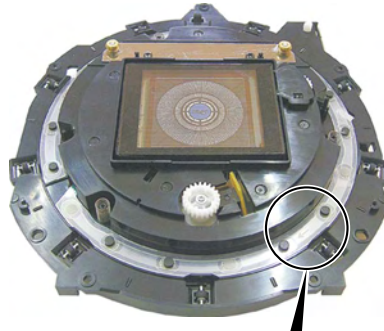
Notes:

1. Be careful not to warp the sheet SW.
2. Remove any dirt on the JOG holder to which the sheet SW is to be adhered. If some adhesive for the old sheet SW remains on the JOG holder, completely remove it with a cloth moistened with alcohol.
3. Do NOT place the sheet SW so that it is mounted on the r b of JOG holder 1000.
4. When adhering the sheet SW, be careful not to trap air bubbles in it. If air bubbles are formed, remove the sheet SW and adhere a new sheet SW. Do NOT reuse the removed sheet SW.
5. When making a connection, be sure to first release the lock of the connector then securely relock the connector after making the connection.



● Place to adhere the SW cushions HH48/2

Adhere the cushions to the right and left of the engraved arrows (←) (12 positions in total) on the sheet SW.



7.2 PARTS

7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

• List of IC

HD6417709SF133B-D, XC3S50-4TQG144C, MN103S71F, PEG237B-K

■ HD6417709SF133B-D (MAIN ASSY : IC101)

• CPU

• Pin Function

| No. | Pin Name | Signal Name | I/O | Pin Function |
|-----|----------|-------------|-----|--|
| 1 | MD1 | SHMD1 | I | Clock mode setting (pullup with 3.3V) |
| 2 | MD2 | SHMD2 | I | Clock mode setting (pullup with 3.3V) |
| 3 | Vcc-RTC | V+1R8 | - | Power supply for RTC |
| 4 | XTAL2 | N.C. | - | Not used |
| 5 | EXTAL2 | - | - | Not used (connect to 1.8V power) |
| 6 | Vss-RTC | GND | - | Ground for RTC |
| 7 | NMI | - | - | Not used |
| 8 | IREQ0 | TI BSREQ | I | TI DSP Input data request (↓ edge) |
| 9 | IREQ1 | TI PCMQREQ | I | TI DSP Output data request (↓ edge) |
| 10 | IREQ2 | - | - | Not used |
| 11 | IREQ3 | - | - | Not used |
| 12 | IREQ4 | DIS_XCS | I | Receiving completion interrupt of FL microcomputer data (↑ edge) |
| 13 | D31 | D31 | - | For debugging |
| 14 | D30 | D30 | - | For debugging |
| 15 | D29 | D29 | - | For debugging |
| 16 | D28 | D28 | - | For debugging |
| 17 | D27 | D27 | - | For debugging |
| 18 | D26 | D26 | - | For debugging |
| 19 | VssQ | GND | - | Ground |
| 20 | D25 | D25 | - | For debugging |
| 21 | VccQ | V+3R3 | - | Power supply for I/O (3.3V) |
| 22 | D24 | D24 | - | For debugging |
| 23 | D23 | D23 | - | For debugging |
| 24 | D22 | D22 | - | For debugging |
| 25 | D21 | D21 | - | For debugging |
| 26 | D20 | D20 | - | For debugging |
| 27 | Vss | GND | - | Ground |
| 28 | D19 | D19 | - | For debugging |
| 29 | Vcc | V+1R8 | - | Power supply for core (1.8V) |
| 30 | D18 | D18 | - | Connect with the servo DSP (Not used, pull down) |
| 31 | D17 | D17 | - | Connect with the servo DSP (Not used, pull down) |
| 32 | D16 | D16 | - | Connect with the servo DSP (Not used, pull down) |
| 33 | VssQ | GND | - | Ground |
| 34 | D15 | D15 | I/O | Data bus |
| 35 | VccQ | V+3R3 | - | Power supply for I/O (3.3V) |
| 36 | D14 | D14 | I/O | Data bus |
| 37 | D13 | D13 | I/O | Data bus |
| 38 | D12 | D12 | I/O | Data bus |
| 39 | D11 | D11 | I/O | Data bus |
| 40 | D10 | D10 | I/O | Data bus |
| 41 | D9 | D9 | I/O | Data bus |
| 42 | D8 | D8 | I/O | Data bus |
| 43 | D7 | D7 | I/O | Data bus |
| 44 | D6 | D6 | I/O | Data bus |
| 45 | VssQ | GND | - | Ground |

A

| No. | Pin Name | Signal Name | I/O | Pin Function |
|-----|----------|-------------|-----|------------------------------|
| 46 | D5 | D5 | I/O | Data bus |
| 47 | VccQ | V+3R3 | – | Power supply for I/O (3.3V) |
| 48 | D4 | D4 | I/O | Data bus |
| 49 | D3 | D3 | I/O | Data bus |
| 50 | D2 | D2 | I/O | Data bus |
| 51 | D1 | D1 | I/O | Data bus |
| 52 | D0 | D0 | I/O | Data bus |
| 53 | A0 | A0 | O | Address bus |
| 54 | A1 | A1 | O | Address bus |
| 55 | A2 | A2 | O | Address bus |
| 56 | A3 | A3 | O | Address bus |
| 57 | VssQ | GND | – | Ground |
| 58 | A4 | A4 | O | Address bus |
| 59 | VccQ | V+3R3 | – | Power supply for I/O (3.3V) |
| 60 | A5 | A5 | O | Address bus |
| 61 | A6 | A6 | O | Address bus |
| 62 | A7 | A7 | O | Address bus |
| 63 | A8 | A8 | O | Address bus |
| 64 | A9 | A9 | O | Address bus |
| 65 | A10 | A10 | O | Address bus |
| 66 | A11 | A11 | O | Address bus |
| 67 | A12 | A12 | O | Address bus |
| 68 | A13 | A13 | O | Address bus |
| 69 | VssQ | GND | – | Ground |
| 70 | A14 | A14 | O | Address bus |
| 71 | VccQ | V+3R3 | – | Power supply for I/O (3.3V) |
| 72 | A15 | A15 | O | Address bus |
| 73 | A16 | A16 | O | Address bus |
| 74 | A17 | A17 | O | Address bus |
| 75 | A18 | A18 | O | Address bus |
| 76 | A19 | A19 | O | Address bus |
| 77 | A20 | A20 | O | Address bus |
| 78 | A21 | A21 | O | Address bus |
| 79 | Vss | GND | – | Ground |
| 80 | A22 | N.C. | – | Not used |
| 81 | Vcc | V+1R8 | – | Power supply for core (1.8V) |
| 82 | A23 | N.C. | – | Not used |
| 83 | VssQ | GND | – | Ground |
| 84 | A24 | N.C. | – | Not used |
| 85 | VccQ | V+3R3 | – | Power supply for I/O (3.3V) |
| 86 | A25 | N.C. | – | Not used |
| 87 | BS | XBS | O | Bus cycle start signal |
| 88 | RD | XRD | O | Read strobe |
| 89 | WE0 | XWE0 | O | Write strobe |
| 90 | WE1 | XWE1 | O | Write strobe |
| 91 | WE2 | N.C. | – | Not used |
| 92 | WE3 | N.C. | – | Not used |
| 93 | RD/WR | RDWR | O | Read/write |
| 94 | AUDSYNC | XAUSYC | – | For development |
| 95 | VssQ | GND | – | Ground |

F

| No. | Pin Name | Signal Name | I/O | Pin Function |
|-----|----------|-------------|-----|--|
| 96 | CS0 | XCS0 | O | Area 0 chip select |
| 97 | VccQ | V+3R3 | – | Power supply for I/O (3.3V) |
| 98 | CS2 | XCS2 | O | Area 2 chip select |
| 99 | CS3 | XCS3 | O | Area 3 chip select |
| 100 | CS4 | XCS4 | O | Area 4 chip select |
| 101 | CS5 | XCS5 | O | Area 5 chip select |
| 102 | CS6 | XCS6 | O | Area 6 chip select |
| 103 | CE2A | N.C. | – | Not used |
| 104 | CE2B | N.C. | – | Not used |
| 105 | CKE | CKE | O | CK enable (SDRAM) |
| 106 | RAS3L | XRAS3L | O | RAS3L (SDRAM) |
| 107 | RAS2L | N.C. | – | Not used |
| 108 | CASLL | XCASLL | O | CASL (SDRAM) |
| 109 | VssQ | GND | – | GND |
| 110 | CASLH | MOT_RST | O | Reset output of Motorola DSP (reset with H) |
| 111 | VccQ | V+3R3 | – | Power supply for I/O (3.3V) |
| 112 | CASHL | TI_RST | O | Reset output for TI DSP (reset with H) |
| 113 | CASHH | N.C. | – | Not used |
| 114 | DACK0 | XDACK0 | – | Not used (connect to FPGA) |
| 115 | DACK1 | XDACK1 | – | Not used (connect to FPGA) |
| 116 | CAS2L | N.C. | – | Not used |
| 117 | CAS2H | N.C. | – | Not used |
| 118 | RAS3U | DAXLAT | O | DAC latch signal |
| 119 | RAS2U | MUTE | O | Audio output stage mute (H: Mute on) |
| 120 | TDO | TDO | – | For development |
| 121 | BACK | N.C. | – | Not used |
| 122 | BREQ | – | I | Bus request (Not used, pullup with 3.3V) |
| 123 | WAIT | XWAIT | I | Hardware wait request (FPGA) |
| 124 | RESETM | – | I | Manual reset (Not used, pullup with 3.3V) |
| 125 | PTH | FPGA_DONE | I | DONE signal for FPGA configuration |
| 126 | IOIS | RY/XBY | I | Connect to flash ROM |
| 127 | ASEMD0 | ASEMD0 | – | For development |
| 128 | ASEBRKAK | XASKAK | – | For development |
| 129 | PTG | FPGA_XINIT | I | INIT signal for FPGA configuration |
| 130 | AUDATA3 | AUDATA3 | – | For development |
| 131 | AUDATA2 | AUDATA2 | – | For development |
| 132 | Vss | GND | – | GND |
| 133 | AUDATA1 | AUDATA1 | – | For development |
| 134 | Vcc | V+1R8 | – | Power supply for core (1.8V) |
| 135 | AUDATA0 | AUDATA0 | – | For development |
| 136 | TRST | XTRST | – | For development |
| 137 | TMS | TMS | – | For development |
| 138 | TDI | TDI | – | For development |
| 139 | TCK | TCK | – | For development |
| 140 | PINT11 | – | – | Not used |
| 141 | PINT10 | – | – | Not used |
| 142 | PINT9 | UPDATE | – | For development |
| 143 | PINT8 | MOT_EMPTY | I | Motorola FIFO empty signal input (High with EMPTY) |
| 144 | MDO | SHMD0 | I | Clock mode setting (pull up with 3.3V) |
| 145 | Vcc-PLL1 | V+1R8 | – | Power supply for PLL1 |

A

| No. | Pin Name | Signal Name | I/O | Pin Function |
|-----|----------|------------------|-----|--|
| 146 | CAP1 | – | – | External capacitor pin for PLL1 |
| 147 | Vss-PLL1 | GND | – | Ground for PLL1 |
| 148 | Vss-PLL2 | GND | – | Ground for PLL2 |
| 149 | CAP2 | N.C. | – | External capacitor pin for PLL2 (Not used) |
| 150 | Vcc-PLL2 | V+1R8 | – | Power supply for PLL2 |
| 151 | AUDCK | AUDCK | – | For development |
| 152 | Vss | GND | – | Ground |
| 153 | Vss | GND | – | Ground |
| 154 | Vcc | V+1R8 | – | Power supply for core (1.8V) |
| 155 | XTAL | N.C. | – | Not used |
| 156 | EXTAL | GND | – | Connect to ground |
| 157 | STATUS0 | TI PCMAACK | O | TI DSP output data acknowledge |
| 158 | STATUS1 | TI BSACK | O | TI DSP input data acknowledge |
| 159 | TCLK | FPGA_XPRG | O | PRG signal for FPGA configuration |
| 160 | IREQOUT | N.C. | – | Not used |
| 161 | VssQ | GND | – | Ground |
| 162 | CKIO | SH_66M | I | Clock input (65.975MHz) |
| 163 | VccQ | V+3R3 | – | Power supply for I/O (3.3V) |
| 164 | TxD0 | CONFDAT/DASSO | O | FPGA configuration/serial data output for DAC |
| 165 | SCKO | CONFIG_CLK/DASCK | O | FPGA configuration/serial clock output for DAC |
| 166 | TxD1 | N.C. | – | Not used |
| 167 | SCK1 | N.C. | – | Not used |
| 168 | TxD2 | TXD2 | O | TXD signal for production |
| 169 | SCK2 | N.C. | – | Not used |
| 170 | RTS2 | N.C. | – | Not used |
| 171 | RxD0 | – | – | Not used |
| 172 | RxD1 | – | – | Not used |
| 173 | Vss | GND | – | Ground |
| 174 | RxD2 | RxD2 | I | RXD signal for production |
| 175 | Vcc | V+1R8 | – | Power supply for core (1.8V) |
| 176 | CTS2 | CTS2 | I | Not used |
| 177 | MCS7 | CONT0 | O | Control signal output |
| 178 | MCS6 | DMA RST | O | FPGA reset output (reset with H) |
| 179 | MCS5 | CONT1 | I | Control signal input |
| 180 | MCS4 | CONT2 | I | Control signal input |
| 181 | VssQ | GND | – | Ground |
| 182 | WACKUP | CARD RST | O | TE4300 reset output (reset with H) |
| 183 | VccQ | V+3R3 | – | Power supply for I/O (3.3V) |
| 184 | RESETOUT | GSL RST | O | ATA reset output (reset with H) |
| 185 | MCS3 | MCS3 | – | Not used |
| 186 | MCS2 | CARD XINT | I | TE4300 interrupt input |
| 187 | MCS1 | ATAIRQ | I | FPGA interrupt input |
| 188 | MCS0 | MCS0 | – | Not used |
| 189 | DRAK0 | N.C. | – | Not used |
| 190 | DRAK1 | N.C. | – | Not used |
| 191 | DREQ0 | XDREQ0 | I | DMA request 0 (FPGA) |
| 192 | DREQ1 | XDREQ1 | – | Not used (connect to FPGA) |
| 193 | RESETTP | RSTCPU | I | Reset input |
| 194 | CA | CA | I | Chip active (pull up with 3.3V) |
| 195 | MD3 | SHMD3 | I | Clock mode setting (pull down) |

F

| No. | Pin Name | Signal Name | I/O | Pin Function |
|-----|----------|-------------|-----|--|
| 196 | MD4 | SHMD4 | I | Clock mode setting (pull up with 3.3V) |
| 197 | MD5 | SHMD5 | I | Clock mode setting (pull down) |
| 198 | AVss | GND | – | Ground |
| 199 | AN0 | – | – | Not used |
| 200 | AN1 | – | – | Not used |
| 201 | AN2 | – | – | Not used |
| 202 | AN3 | – | – | Not used |
| 203 | AN4 | – | – | Not used |
| 204 | AN5 | – | – | Not used |
| 205 | AVcc | V+3R3 | – | Analog power supply (3.3V) |
| 206 | AN6 | – | – | Not used |
| 207 | AN7 | – | – | Not used |
| 208 | AVss | GND | – | Ground |

A

■ XC3S50-4TQG144C (MAIN ASSY : IC301)

- FPGA (Field Programmable Gate Array)

● Pin Function

| No. | Pin Name | Signal Name | I/O | Pin Function |
|-----|----------|-------------|-----|--|
| 1 | I/O DCI | N.C. | – | Not used |
| 2 | I/O DCI | TI_XCS | O | DSP (IC401) chip select signal |
| 3 | VCCO | V+3R3 | – | Power supply for I/O |
| 4 | IO/VREF | TI_XHDS1 | O | DSP (IC401) data strobe signal |
| 5 | I/O | DMA_XRST | I | FPGA reset input |
| 6 | I/O | ATADREQ | I | ATADMA request signal |
| 7 | I/O | ATAWR | O | ATA write signal |
| 8 | I/O | ATARD | O | ATA read signal |
| 9 | GND | GND | – | Ground |
| 10 | I/O | ATARDY | I | ATA ready signal |
| 11 | I/O | ATADACK | O | ATADMA acknowledge signal |
| 12 | I/O | ATAA1 | O | ATA address bus |
| 13 | I/O | ATAA0 | O | ATA address bus |
| 14 | I/O | ATAA2 | O | ATA address bus |
| 15 | I/O | ATACS0 | O | ATA chip select 0 |
| 16 | GND | GND | – | Ground |
| 17 | I/O | ATACS1 | O | ATA chip select 1 |
| 18 | IO/VREF | ATA15 | I/O | ATA data bus |
| 19 | VCCO | V+3R3 | – | Power supply for I/O |
| 20 | IO/VREF | ATA0 | I/O | ATA data bus |
| 21 | I/O | ATA14 | I/O | ATA data bus |
| 22 | GND | GND | – | Ground |
| 23 | I/O | ATA1 | I/O | ATA data bus |
| 24 | IO/VREF | ATA13 | I/O | ATA data bus |
| 25 | I/O | ATA2 | I/O | ATA data bus |
| 26 | I/O | ATA12 | I/O | ATA data bus |
| 27 | I/O | ATA3 | I/O | ATA data bus |
| 28 | I/O | ATA11 | I/O | ATA data bus |
| 29 | GND | GND | – | Ground |
| 30 | I/O | ATA4 | I/O | ATA data bus |
| 31 | I/O | ATA10 | I/O | ATA data bus |
| 32 | I/O | ATA5 | I/O | ATA data bus |
| 33 | I/O | ATA9 | I/O | ATA data bus |
| 34 | VCCO | V+3R3 | – | Power supply for I/O |
| 35 | I/O DCI | ATA6 | I/O | ATA data bus |
| 36 | I/O DCI | ATA8 | I/O | ATA data bus |
| 37 | M1 | V+2R5FPGA | I | Configuration mode setting (connect to 2.5V) |
| 38 | M0 | V+2R5FPGA | I | Configuration mode setting (connect to 2.5V) |
| 39 | M2 | V+2R5FPGA | I | Configuration mode setting (connect to 2.5V) |
| 40 | I/O DUAL | ATA7 | I/O | ATA data bus |
| 41 | I/O DUAL | DIS_DIN | O | FL microcomputer (IC1002) data output |
| 42 | GND | GND | – | Ground |
| 43 | VCCO | V+3R3 | – | Power supply for I/O |
| 44 | IO/VREF | DIS_XCS | I | FL microcomputer (IC1002) chip select input |

F

| No. | Pin Name | Signal Name | I/O | Pin Function |
|-----|--------------|-------------|-----|---------------------------------------|
| 45 | GND | GND | – | Ground |
| 46 | I/O DUAL | DIS_DOUT | I | FL microcomputer (IC1002) data input |
| 47 | I/O DUAL | DIS_SCLK | I | FL microcomputer (IC1002) clock input |
| 48 | VCCAUX | V+2R5FPGA | – | Auxiliary power |
| 49 | VCCINT | V+1R2FPGA | – | Internal core power supply |
| 50 | I/O DUAL | SUB_CODE | I | Subcode input |
| 51 | I/O DUAL | M_DATR2 | O | DSP (IC402) audio data R2 output |
| 52 | IO/GCLK2 | M_DATR1 | O | DSP (IC402) audio data R1 output |
| 53 | IO/GCLK3 | M_DATL2 | O | DSP (IC402) audio data L2 output |
| 54 | VCCO | V+3R3 | – | Power supply for I/O |
| 55 | IO/GCLK0 | M_DATL1 | O | DSP (IC402) audio data L1 output |
| 56 | IO/GCLK1 | FPGA_66M | I | System clock input |
| 57 | IO/DOUT/BUSY | N.C. | – | Not used |
| 58 | IO/INIT | FPGA_XINIT | I/O | INIT signal for FPGA configuration |
| 59 | I/O DUAL | M_DBCLK | O | DSP (IC402) audio data clock output |
| 60 | I/O DUAL | M_BCLK | O | DSP (IC402) audio data clock output |
| 61 | VCCINT | V+1R2FPGA | – | Internal core power supply |
| 62 | VCCAUX | V+2R5FPGA | – | Auxiliary power |
| 63 | I/O DUAL | M_REQ | I | DSP (IC402) request signal |
| 64 | GND | GND | – | Ground |
| 65 | IO/DIN/D0 | CONFDAT | I | Data input for FPGA configuration |
| 66 | VCCO | V+3R3 | – | Power supply for I/O |
| 67 | GND | GND | – | Ground |
| 68 | I/O DCI | M_XWE | O | DSP (IC402) write signal |
| 69 | I/O DCI | M_XRD | O | DSP (IC402) read signal |
| 70 | IO/VREF | M_XCS | O | DSP (IC402) chip select signal |
| 71 | DONE | FPGA_DONE | O | DONE signal for FPGA configuration |
| 72 | CCLK | CONFIG_CLK | I | Clock input for FPGA configuration |
| 73 | I/O DCI | M_VALID | O | DSP (IC402) audio data valid signal |
| 74 | I/O DCI | XWE0 | I | CPU write signal |
| 75 | VCCO | V+3R3 | – | Power supply for I/O |
| 76 | I/O | RDWR | I | CPU read/write signal |
| 77 | I/O | XRD | I/O | CPU data bus |
| 78 | I/O | D0 | I/O | CPU data bus |
| 79 | I/O | D1 | I/O | CPU data bus |
| 80 | I/O | D2 | I/O | CPU data bus |
| 81 | GND | GND | – | Ground |
| 82 | I/O | D3 | I/O | CPU data bus |
| 83 | I/O | D4 | I/O | CPU data bus |
| 84 | IO/VREF | D5 | I/O | CPU data bus |
| 85 | I/O | D6 | I/O | CPU data bus |
| 86 | I/O | D7 | I/O | CPU data bus |
| 87 | I/O | XWE1 | I | CPU write signal |
| 88 | GND | GND | – | Ground |
| 89 | I/O | D8 | I/O | CPU data bus |
| 90 | IO/VREF | D9 | I/O | CPU data bus |
| 91 | VCCO | V+3R3 | – | Power supply for I/O |
| 92 | IO/VREF | D10 | I/O | CPU data bus |
| 93 | I/O | D11 | I/O | CPU data bus |
| 94 | GND | GND | – | Ground |

A

B

C

D

E

F

| No. | Pin Name | Signal Name | I/O | Pin Function |
|-----|----------|-------------|-----|--|
| 95 | I/O | D12 | I/O | CPU data bus |
| 96 | I/O | D13 | I/O | CPU data bus |
| 97 | I/O | D14 | I/O | CPU data bus |
| 98 | IO/VREF | D15 | I/O | CPU data bus |
| 99 | I/O | A1 | I | CPU address bus |
| 100 | I/O | A2 | I | CPU address bus |
| 101 | GND | GND | – | Ground |
| 102 | I/O | A3 | I | CPU address bus |
| 103 | I/O | A4 | I | CPU address bus |
| 104 | I/O | A5 | I | CPU address bus |
| 105 | I/O | A6 | I | CPU address bus |
| 106 | VCCO | V+3R3 | – | Power supply for I/O |
| 107 | I/O DCI | A7 | I | CPU address bus |
| 108 | I/O DCI | A8 | I | CPU address bus |
| 109 | TDO | N.C. | – | Not used |
| 110 | TCK | N.C. | – | Not used |
| 111 | TMS | N.C. | – | Not used |
| 112 | I/O | A11 | I | CPU address bus |
| 113 | I/O | A10 | I | CPU address bus |
| 114 | GND | GND | – | Ground |
| 115 | VCCO | V+3R3 | – | Power supply for I/O |
| 116 | I/O | A9 | I | CPU address bus |
| 117 | GND | GND | – | Ground |
| 118 | I/O | N.C. | – | Not used |
| 119 | I/O | CARD_XRD | O | TE4300 (IC403) read signal |
| 120 | VCCAUX | V+2R5FPGA | – | Auxiliary power |
| 121 | VCCINT | V+1R2FPGA | – | Internal core power supply |
| 122 | I/O | CARD_XCS | O | TE4300 (IC403) chip select signal |
| 123 | IO/VREF | CARD_XWR | O | TE4300 (IC403) write signal |
| 124 | IO/GCLK4 | XBS | I | CPU bus cycle signal |
| 125 | IO/GCLK5 | N.C. | – | Not used |
| 126 | VCCO | V+3R3 | – | Power supply for I/O |
| 127 | IO/GCLK6 | XCS2 | I | CPU area 2 chip select signal |
| 128 | IO/GCLK7 | XCS4 | I | CPU area 4 chip select signal |
| 129 | IO/VREF | XCS5 | I | CPU area 5 chip select signal |
| 130 | I/O | XCS6 | I | CPU area 6 chip select signal |
| 131 | I/O | XDACK0 | – | Not used (connect to CPU) |
| 132 | I/O | XDACK1 | – | Not used (connect to CPU) |
| 133 | VCCINT | V+1R2FPGA | – | Internal core power supply |
| 134 | VCCAUX | V+2R5FPGA | – | Auxiliary power |
| 135 | I/O | XWAIT | O | CPU wait signal |
| 136 | GND | GND | – | Ground |
| 137 | I/O | XDREQ0 | O | CPUDMA request output 0 |
| 138 | VCCO | V+3R3 | – | Power supply for I/O |
| 139 | GND | GND | – | Ground |
| 140 | I/O DCI | XDREQ1 | – | Not used (connect to CPU) |
| 141 | I/O DCI | TI_HRDY | I | DSP (IC401) data ready signal |
| 142 | HSWAP_EN | V+2R5FPGA | I | Bus state setting in configuration (pull down) |
| 143 | PROG_B | FPGA_XPRG | I | PRG signal for FPGA configuration |
| 144 | TDI | N.C. | I | Not used |

■ MN103S71F (MAIN ASSY : IC603)

• SODC

● Pin Function

| No. | Mark | Pin Name | I/O | Pin Function |
|-----|-----------|---------------|-----|---|
| 1 | P2 | XDMUTE1 | O | Mute control of driver IC |
| 2 | P3 | XDMUTE2 | O | Mute control of driver IC |
| 3 | P4/EXCNT0 | ILMUSK | I | Connect to VSS |
| 4 | VDD3 | VDD3 | – | Power supply (VD3V) |
| 5 | VSS | VSS | – | GNDD |
| 6 | P5/EXCNT1 | INSIDE | I | Servo mecha inside SW input (L: ON) |
| 7 | P6/NSPCCS | SPGAIN | O | SPDL motor current switching control (at inversion brakes: H) |
| 8 | P7/FADR17 | FADR17/NSPCCS | O | Address output to FLASH ROM |
| 9 | P8/FADR18 | FADR18 | O | NC |
| 10 | FADR11 | FADR11 | O | Address output to FLASH ROM |
| 11 | FADR9 | FADR9 | O | Address output to FLASH ROM |
| 12 | VDD15 | VDD15 | – | Power supply (VD1R5) |
| 13 | FADR8 | FADR8 | O | Address output to FLASH ROM |
| 14 | FADR13 | FADR13 | O | Address output to FLASH ROM |
| 15 | FADR14 | FADR14 | O | Address output to FLASH ROM |
| 16 | NWE | NWE | O | Write enable output to FLASH ROM |
| 17 | FADR16 | FADR16 | O | Address output to FLASH ROM |
| 18 | FADR15 | FADR15 | O | Address output to FLASH ROM |
| 19 | DRAMVDD15 | DRAMVDD15 | – | DRAM power supply (DRAMD1R5) |
| 20 | DRAMVSS | DRAMVSS | – | GND for DRAM |
| 21 | VSS | VSS | – | GNDD |
| 22 | FADR12 | FADR12 | O | Address output to FLASH ROM |
| 23 | FADR7 | FADR7 | O | Address output to FLASH ROM |
| 24 | FADR6 | FADR6 | O | Address output to FLASH ROM |
| 25 | FADR5 | FADR5 | O | Address output to FLASH ROM |
| 26 | FADR4 | FADR4 | O | Address output to FLASH ROM |
| 27 | FADR3 | FADR3 | O | Address output to FLASH ROM |
| 28 | FADR2 | FADR2 | O | Address output to FLASH ROM |
| 29 | FADR1 | FADR1 | O | Address output to FLASH ROM |
| 30 | FADR0 | FADR0 | O | Address output to FLASH ROM |
| 31 | VSS | VSS | – | GNDD |
| 32 | VDD3 | VDD3 | – | Power supply (VD3V) |
| 33 | FDT0 | FDT0 | I/O | Data input/output to FLASH ROM |
| 34 | FDT1 | FDT1 | I/O | Data input/output to FLASH ROM |
| 35 | FDT2 | FDT2 | I/O | Data input/output to FLASH ROM |
| 36 | FDT3 | FDT3 | I/O | Data input/output to FLASH ROM |
| 37 | FDT4 | FDT4 | I/O | Data input/output to FLASH ROM |
| 38 | FDT5 | FDT5 | I/O | Data input/output to FLASH ROM |
| 39 | FDT6 | FDT6 | I/O | Data input/output to FLASH ROM |
| 40 | FDT7 | FDT7 | I/O | Data input/output to FLASH ROM |
| 41 | NCE | NCE | O | Chip enable output to FLASH ROM |
| 42 | FADR10 | FADR10 | O | Address output to FLASH ROM |
| 43 | NOE | NOE | O | Output enable output to FLASH ROM |
| 44 | MMOD | MMOD | I | Connect to VSS |

A

| No. | Mark | Pin Name | I/O | Pin Function |
|-----|-------------------|---------------|-----|--|
| 45 | NRST | NRST | I | Hardware reset input |
| 46 | VSS | VSS | – | GNDD |
| 47 | SCLOCK | SCLOCK | I/O | NC |
| 48 | SDATA | SDATA | I/O | NC |
| 49 | TxD/EXTRG0/MDATA | TXD | I/O | NC |
| 50 | RxD/EXTRG1/MCLOCK | RXD | I/O | NC |
| 51 | VDD3 | VDD3 | – | Power supply (VD3V) |
| 52 | OSCI | OSCI | I | Oscillation input |
| 53 | OSCO | OSCO | O | Oscillation output (16.93MHz) |
| 54 | VSS | VSS | – | GNDD |
| 55 | DRV0 | DRV0(VRCAP) | O | NC |
| 56 | DRV1 | DRV1(SPDRV) | O | Spindle motor control |
| 57 | DRV2 | DRV2(FBAL) | O | Focus balance control |
| 58 | DRV3 | DRV3(TBAL) | O | NC |
| 59 | DRV4 | DRV4(STPM1P) | O | Stepping motor control |
| 60 | DRV5 | DRV5(STPM1N) | O | Stepping motor control |
| 61 | DRV6 | DRV6(6VRSW) | O | NC |
| 62 | DRV7 | DRV7(7VRSW) | O | NC |
| 63 | VSS | VSS | – | GNDD |
| 64 | DRV8 | DRV8(FCSG) | O | NC |
| 65 | DRV9 | DRV9(NFEPRST) | O | NC |
| 66 | DRV10 | DRV10 | O | NC |
| 67 | DRV11 | DRV11(LOAD) | O | Loading motor control |
| 68 | DRV12 | DRV12(FEPCK) | O | Clock output to FEP |
| 69 | DRV13 | DRV13(FEPDT) | I/O | Data input/output to FEP |
| 70 | DRV14 | DRV14(FEPEN) | O | Enable output to FEP |
| 71 | DRAMVSS | DRAMVSS | – | GND for DRAM |
| 72 | DRAMVDD15 | DRAMVDD15 | – | DRAM power supply (DRAMD1R5) |
| 73 | DRAMVDD33 | DRAMVDD33 | – | Power supply (VD3V) |
| 74 | VDD3 | VDD3 | – | Power supply (VD3V) |
| 75 | FG | FG | I | Spindle motor FG input |
| 76 | TX | TX | O | NC |
| 77 | VDD15 | VDD15 | – | Power supply (VD1R5) |
| 78 | VSS | VSS | – | GNDD |
| 79 | TSTSG | TSTSG | O | EQ calibration signal to FEP |
| 80 | VFOSHORT | VFOSHORT | O | VFO short control |
| 81 | JLINE | JLINE | O | NC |
| 82 | BDO | BDO | I | BDO (Black Dog Out) input |
| 83 | OFTR | OFTR | I | OFTR (Off Track) input |
| 84 | AVSSD | AVSSD | – | GNDA |
| 85 | ROUT | ROUT | O | NC |
| 86 | LOUT | LOUT | O | NC |
| 87 | AVDDD | AVDDD | – | Power supply (VA3V) |
| 88 | VCOF | VCOF | I | VCO control voltage |
| 89 | TRCRS | TRCRS | I | Input for TRCRS (Track Cross) generation |
| 90 | AVDDC | AVDDC | – | Power supply (VA3V) |
| 91 | WBLIN | WBLIN | I | Connect to VSS |
| 92 | CSLFLT | CSLFLT | I | NC |
| 93 | RFDIF | RFDIF | I | NC |
| 94 | AVSSC | AVSSC | – | GNDA |

F

| No. | Mark | Pin Name | I/O | Pin Function |
|-----|--------------|---------------|-----|---|
| 95 | PLFLT2 | PLFLT2 | I | Connect a capacitor for PLL |
| 96 | PLFLT1 | PLFLT1 | I | Connect a capacitor for PLL |
| 97 | AVSSB | AVSSB | - | GNDA |
| 98 | ARF | ARF | I | RF+ input |
| 99 | NARF | NARF | I | RF- input |
| 100 | VHALF | VHALF | I | Reference voltage (1.65V) input |
| 101 | RVI | RVI | I | VREFH reference current control |
| 102 | VREFH | VREFH | I | Reference voltage (2.2V) input |
| 103 | DSLF2 | DSLF2 | I | Connect a capacitor for DSL (Data SLicer) |
| 104 | DSLF1 | DSLF1 | I | Connect a capacitor for DSL (Data SLicer) |
| 105 | AVDDB | AVDDB | - | Power supply (VA3V) |
| 106 | JITOUT | JITOUT | O | Jitter monitor output |
| 107 | AVDDA | AVDDA | - | Power supply (VA3V) |
| 108 | TECAPA | TECAPA | I | NC |
| 109 | AD0 | AD0(FE) | I | Focus error input |
| 110 | AD2 | AD2(AS) | I | RFAS input |
| 111 | AD1 | AD(TE) | I | Tracking error input |
| 112 | AD3 | AD3(RFENV) | I | RF envelope input |
| 113 | AD4 | AD4(RFDIF) | I | Radial differential input |
| 114 | AD5 | AD5(FEDRV) | I | Focus drive input |
| 115 | AD6 | AD6(TEDRV) | I | Tracking drive input |
| 116 | AD7 | AD7(T+) | I | Connect to VSS |
| 117 | AD8 | AD8(T-) | I | Connect to VSS |
| 118 | AVSSA | AVSSA | - | GNDA |
| 119 | PWM0 | PWM0 | O | Focus drive control |
| 120 | PWM1 | PWM1 | O | Tracking drive control |
| 121 | VSS | VSS | - | GNDD |
| 122 | VDD3 | VDD3 | - | Power supply (VD3V) |
| 123 | IDGT | IDGT | O | NC |
| 124 | DTR | DTR | O | NC |
| 125 | MONI0/P9 | BUSY/MONI0 | I/O | Monitor output |
| 126 | MONI1/P10 | NAMUTE/MONI1 | I/O | Monitor output |
| 127 | MONI2/P11 | NDMUTE1/MONI2 | I/O | Monitor output |
| 128 | MONI3/P12 | NDMUTE2/MONI3 | I/O | Monitor output |
| 129 | MSTPOL/MONI4 | MSTPOL/MONI4 | I | |
| 130 | DASPST/MONI5 | DASPST/MONI5 | I | Connect to VSS |
| 131 | NEJECT/MONI6 | NEJECT/MONI6 | O | NC |
| 132 | NTRYCL/MONI7 | NTRYCL/MONI7 | O | NC |
| 133 | DMARQ | DMARQ | O | DMA request output to the host |
| 134 | NIOWR | NIOWR | I | Host write input |
| 135 | VDD3 | VDD3 | - | Power supply (VD3V) |
| 136 | VSS | VSS | - | GNDD |
| 137 | NIORD | NIORD | I | Host read input |
| 138 | IODRY | IODRY | O | Ready output to the host |
| 139 | NDMACK | NDMACK | I | Host DMA acknowledge input |
| 140 | INTRQ | INTRQ | O | Interrupt output to the host |
| 141 | NIOCS16 | NIOCS16 | O | Data bus width select |
| 142 | DA1 | DA1 | I | Assress input |
| 143 | NPDIAG | NPDIAG | I/O | |
| 144 | DA0 | DA0 | I | Assress input |

A

| No. | Mark | Pin Name | I/O | Pin Function |
|-----|-----------|----------|-----|---------------------------|
| 145 | VSS | VSS | – | GNDD |
| 146 | VDD3 | VDD3 | – | Power supply (VD3V) |
| 147 | DA2 | DA2 | I | Address input |
| 148 | NCS1FX | NCS1FX | I | Chip select input |
| 149 | NCS3FX | NCS3FX | I | Chip select input |
| 150 | NDASP | NDASP | I/O | |
| 151 | HDD15 | HDD15 | I/O | Data input/output |
| 152 | HDD0 | HDD0 | I/O | Data input/output |
| 153 | HDD14 | HDD14 | I/O | Data input/output |
| 154 | HDD1 | HDD1 | I/O | Data input/output |
| 155 | HDD13 | HDD13 | I/O | Data input/output |
| 156 | VDD3 | VDD3 | – | Power supply (VD3V) |
| 157 | VDD15 | VDD15 | – | Power supply (VD1R5) |
| 158 | VSS | VSS | – | GNDD |
| 159 | HDD2 | HDD2 | I/O | Data input/output |
| 160 | HDD12 | HDD12 | I/O | Data input/output |
| 161 | HDD3 | HDD3 | I/O | Data input/output |
| 162 | HDD11 | HDD11 | I/O | Data input/output |
| 163 | HDD4 | HDD4 | I/O | Data input/output |
| 164 | HDD10 | HDD10 | I/O | Data input/output |
| 165 | HDD5 | HDD5 | I/O | Data input/output |
| 166 | VSS | VSS | – | GNDD |
| 167 | VDD3 | VDD3 | – | Power supply (VD3V) |
| 168 | HDD9 | HDD9 | I/O | Data input/output |
| 169 | HDD6 | HDD6 | I/O | Data input/output |
| 170 | HDD8 | HDD8 | I/O | Data input/output |
| 171 | HDD7 | HDD7 | I/O | Data input/output |
| 172 | VDDH | VDDH | – | Power supply (VD5V) |
| 173 | NRESET | NRESET | I | Reset input from the host |
| 174 | MASTER | MASTER | I | Connect to VSS |
| 175 | P0/SERIAL | LPS1 | I | Loading mecha SW input |
| 176 | P1/SERIAL | LPS2 | I | Loading mecha SW input |

E

F

■ PEG237B-K (MFLB ASSY : IC1002)

• FL Microcomputer

● Pin Function

| No. | Pin Name | Signal Name | I/O | Pin Function |
|-----|------------------------------|-------------|-----|---|
| 1 | P96/ANEX1 | T/B | I | VINYL SPEED ADJUST input Clockwise direction: Vcc side |
| 2 | P95/ANEX0 | R/S | I | VINYL SPEED ADJUST input Clockwise direction: Vcc side |
| 3 | P94 | MODEL1 | I | Model setting 1 (pull up with 5V) Distinguish between CDJ-800MK2 and CDJ-1000MK3. |
| 4 | P93/DA0 | MODEL2 | I | Model setting 2 (pull up with 5V) Distinguish between CDJ-800MK2 and CDJ-1000MK3. |
| 5 | P92/TB2IN | N.C. | - | Not used |
| 6 | P91/TB1IN | JOG1 | I | Pulse period measurement processing (connect to JOG1) |
| 7 | P90/TB0IN | N.C. | - | Not used |
| 8 | BYTE | - | - | Not used (Connect to GND) |
| 9 | CNVss | CNVSS | - | Not used (GND pull down) |
| 10 | P87/XCIN | - | - | Not used (Connect to GND) |
| 11 | P86/XCOUT | - | - | Not used (Connect to GND) |
| 12 | XRESET | XRESET | I | Reset input |
| 13 | Xout | XOUT | O | Oscillator (16MHz) |
| 14 | Vss | GNDD | - | GND |
| 15 | Xin | XIN | I | Oscillator (16MHz) |
| 16 | Vcc1 | V+5D | - | Power supply |
| 17 | P85/XNMI | XNMI | I | Not used (pull up with 5V) |
| 18 | P84/XINT2 | - | - | Not used (connect to 5V) |
| 19 | P83/XINT1 | - | - | Not used (connect to 5V) |
| 20 | P82/XINT0 | - | - | Not used (connect to 5V) |
| 21 | P81 | - | - | Not used (connect to 5V) |
| 22 | P80 | - | - | Not used (connect to 5V) |
| 23 | P77 | - | - | Not used (connect to 5V) |
| 24 | P76 | - | - | Not used (connect to 5V) |
| 25 | P75/TA2IN | JOG2 | I | Two-phase pulse signal input When input signal of TA2OUT pin is period of "H", up count (clockwise) at rising edge of TA2IN pin, down count (counterclockwise) at falling edge. |
| 26 | P74/TA2OUT | JOG1 | I | |
| 27 | P73/XCTS2/XRTS2/TA1IN | TCH | I | JOG touch sensor ON with L |
| 28 | P72/CLK2/TA1OUT | J_SCLK | O | Serial clock signal for JOG FL |
| 29 | P71/RxD2/SCL2/TA0IN | N.C. | - | Not used |
| 30 | P70/TXD2/SDA2/TA1OUT | J_SDO | O | Serial data signal for JOG FL |
| 31 | P67/TXD1/SDA1 | FL_SDO | O | Serial data signal for data FL |
| 32 | P66/RxD1/SCL1 | RXD | I | For development |
| 33 | P65/CLK1 | FL_SCLK | O | Serial clock signal for data FL |
| 34 | P64/XCTS1/XRTS1/XCTS0/XCLKS1 | F_BUSY | I | For development |
| 35 | P63/TXD0/SDA0 | SDO | O | Data output of main communication |
| 36 | P62/RxD0/SCL0 | SIN | I | Data input of main communication |
| 37 | P61/CLK0 | SCLK | O | Clock output of main communication |
| 38 | P60/XCTS0/XRTS0 | XCS | O | Chip select output of main communication |
| 39 | P57/CLKOUT | N.C. | - | Not used |
| 40 | P56 | N.C. | - | Not used |
| 41 | P55 | - | I | Not used (pull down) |
| 42 | P54 | DFL_LAT | O | Latch signal for data FL |
| 43 | P53 | DFL_BK | O | Blank signal for data FL |
| 44 | P52 | J_LAT | O | Latch signal for JOG FL |
| 45 | P51 | J_BK | O | Blank signal for JOG FL |
| 46 | P50 | - | - | Not used (pull up with 5V) |
| 47 | P47 | LED_24 | O | LED (CARD_IND • yellow/green) Turn off the light with L. |
| 48 | P46 | LED_23 | O | LED (CDJ • yellow/green) Turn off the light with L. |
| 49 | P45 | LED_22 | O | LED (VINYL • blue) Turn off the light with L. |
| 50 | P44 | LED_21 | O | LED (TEMPO_RESET • yellow/green) Turn off the light with L. |

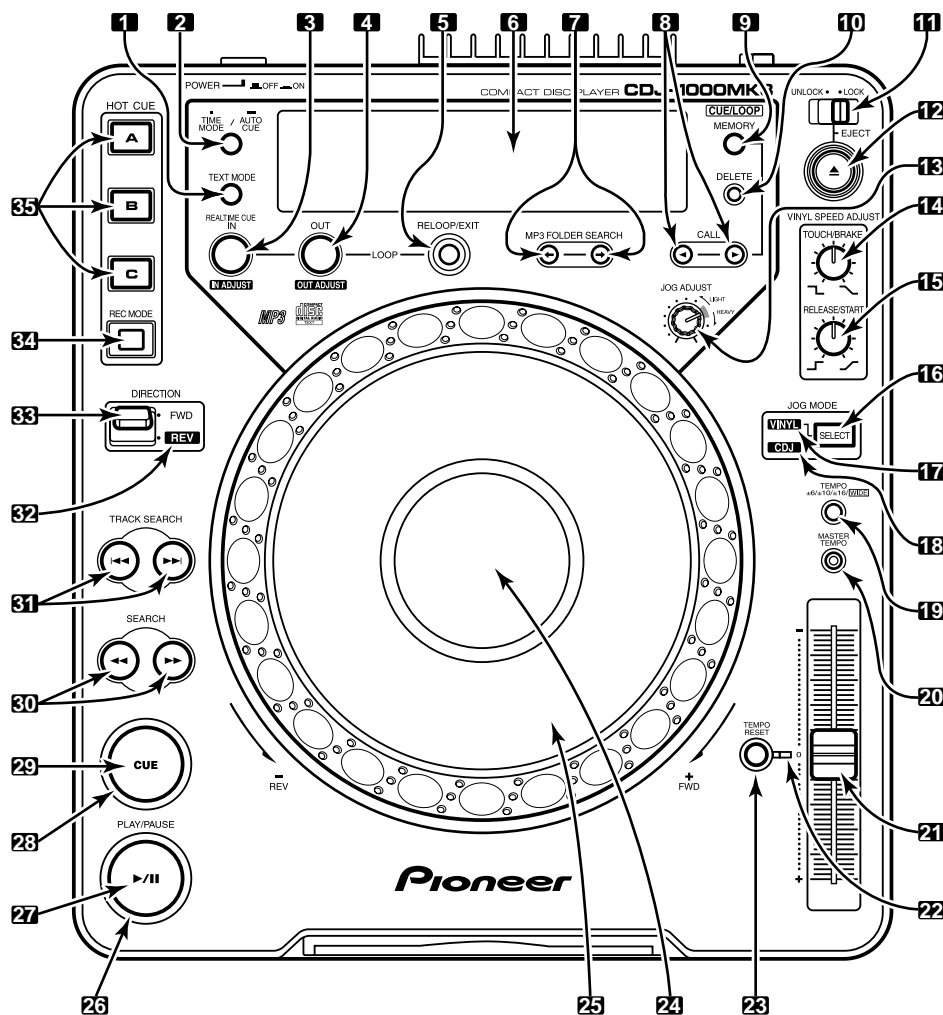
A

| No. | Pin Name | Signal Name | I/O | Pin Function |
|-----|---------------|-------------|-----|---|
| 51 | P43 | LED_20 | O | LED (MASTER_TEMPO • Red) Turn off the light with L. |
| 52 | P42 | N.C. | – | Not used |
| 53 | P41 | N.C. | – | Not used |
| 54 | P40 | N.C. | – | Not used |
| 55 | P37 | N.C. | – | Not used |
| 56 | P36 | LED_15 | O | LED (CUEC • Amber) Turn off the light with L. |
| 57 | P35 | LED_14 | O | LED (CUEC • Green) Turn off the light with L. |
| 58 | P34 | LED_13 | O | LED (CUEC • Red) Turn off the light with L. |
| 59 | P33 | LED_12 | O | LED (CUEB • Amber) Turn off the light with L. |
| 60 | P32 | LED_11 | O | LED (CUEB • Green) Turn off the light with L. |
| 61 | P31 | LED_10 | O | LED (CUEB • Red) Turn off the light with L. |
| 62 | Vcc2 | +V5 | – | Power supply |
| 63 | P30 | LED_09 | O | LED (CUEA • Amber) Turn off the light with L. |
| 64 | Vss | GNDD | – | GND |
| 65 | P27 | LED_08 | O | LED (CUEA • Green) Turn off the light with L. |
| 66 | P26 | LED_07 | O | LED (CUEA • Red) Turn off the light with L. |
| 67 | P25 | LED_06 | O | LED (DIRECTION_REV • Red) Turn off the light with L. |
| 68 | P24 | LED_05 | O | LED (RELOOP • Amber) Turn off the light with L. |
| 69 | P23 | LED_04 | O | LED (LOOP_OUT • Amber) Turn off the light with L. |
| 70 | P22 | LED_03 | O | LED (LOOP_IN • Amber) Turn off the light with L. |
| 71 | P21 | LED_02 | O | LED (CUE • Amber) Turn off the light with L. |
| 72 | P20 | LED_01 | O | LED (PLAY/PAUSE • Green) Turn off the light with L. |
| 73 | P17 | ELOCK | I | EJECT LOCK SW |
| 74 | P16/XINT4 | SW0 | I | DIRECTION SW |
| 75 | P15/XINT3 | – | – | Not used (Connect to GND) |
| 76 | P14 | – | – | Not used (Connect to GND) |
| 77 | P13 | – | – | Not used (Connect to GND) |
| 78 | P12 | – | – | Not used (Connect to GND) |
| 79 | P11 | – | – | Not used (Connect to GND) |
| 80 | P10 | – | – | Not used (Connect to GND) |
| 81 | P07/AN0_7 | CUEC | I | Key input (CUEC) L: ON |
| 82 | P06/AN0_6 | CUEB | I | Key input (CUEB) L: ON |
| 83 | P05/AN0_5 | CUEA | I | Key input (CUEA) L: ON |
| 84 | P04/AN0_4 | RELP | I | Key input (RELOOP) L: ON |
| 85 | P03/AN0_3 | LOOPOUT | I | Key input (LOOP_OUT) L: ON |
| 86 | P02/AN0_2 | LOOPIN | I | Key input (LOOP_IN) L: ON |
| 87 | P01/AN0_1 | CUE | I | Key input (CUE) L: ON |
| 88 | P00/AN0_0 | PLAY | I | Key input (PLAY/PAUSE) L: ON |
| 89 | P107/AN7/XKI3 | ADCT | I | Slider center value adjustment |
| 90 | P106/AN6/XKI2 | ADIN | I | Tempo slider input + direction: Vcc side, – direction: GND side |
| 91 | P105/AN5/XKI1 | KEY0 | I | Key input 0 (AD input) |
| 92 | P104/AN4/XKI0 | KEY1 | I | Key input 1 (AD input) |
| 93 | P103/AN3 | KEY2 | I | Key input 2 (AD input) |
| 94 | P102/AN2 | – | – | Not used (Connect to GND) |
| 95 | P101/AN1 | – | – | Not used (Connect to GND) |
| 96 | AVSS | GNDD | – | GND |
| 97 | P100/AN0 | – | – | Not used (Connect to GND) |
| 98 | VREF | V+5D | – | Reference voltage input of A/D converter |
| 99 | AVcc | V+5D | – | Reference voltage input of A/D converter |
| 100 | P97/XADTRG | – | – | Not used (Connect to GND) |

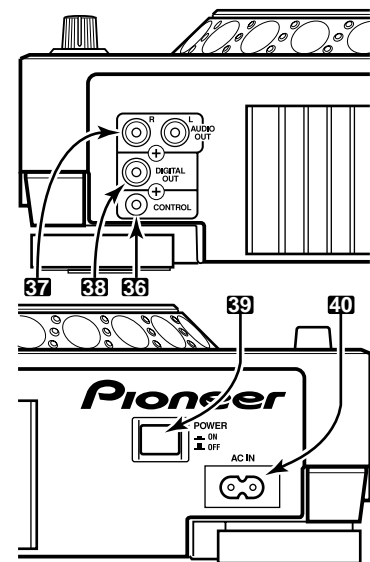
8. PANEL FACILITIES

8.1 PANEL SECTION

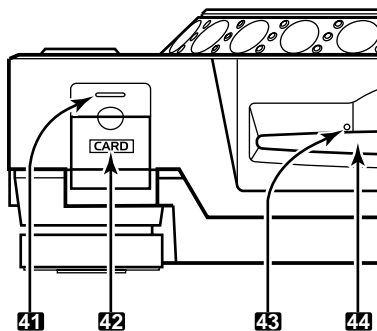
Upper Panel



Rear Panel



Front Panel



1. Display selector button (TEXT MODE)

Each time this button is pressed, the display alternates between WAVE and TEXT (track name/album name/artist name). When playing MP3, WAVE display may not be possible, depending on the track.

2. TIME MODE/AUTO CUE button

TIME MODE:

Each time the button is pressed, the display's time display alternates between the current elapsed play time and the remaining play time (REMAIN).

When playing MP3, the REMAIN time may not display immediately, depending on the track.

- The current TIME MODE setting is retained in memory even when the power is turned off.

AUTO CUE:

When the button is held depressed for 1 second or more, the AUTO CUE mode is alternately enabled and disabled.

When the button is held depressed for 5 seconds or more, the AUTO CUE level is toggled.

- The current AUTO CUE on/off and AUTO CUE level settings are retained in memory even when power is turned off.

3. LOOP IN/REALTIME CUE (IN ADJUST) button/indicator

Realtime cue

Loop-in point input

Loop-in point adjust

4. LOOP OUT (OUT ADJUST) button/indicator

Loop-out point input

Loop-out point adjust

5. RELOOP/EXIT button

6. Display

7. FOLDER SEARCH buttons (←, →)

During MP3 playback, layered CD-ROM folder search will be performed in the designated direction.

8. CUE/LOOP CALL buttons (◀, ▶)

Use to call cue points and loop points recorded in external memory (when memory card is loaded).

9. CUE/LOOP MEMORY button

Use to record cue points and loop points to external memory (when memory card is loaded).

10. CUE/LOOP DELETE button

Use to delete cue points and loop points from external memory (when memory card is loaded).

11. EJECT UNLOCK/LOCK switch

UNLOCK: Disc is ejected when button is pressed, even if pressed during play.

LOCK: Disc cannot be ejected if button is pressed during play. Set unit to pause mode and then press button to eject disc.

12. EJECT button (▲)

When button is pressed, disc rotation stops and disc is ejected from port.

If the **EJECT UNLOCK/LOCK** switch is set to the [LOCK] position, the disc will not be ejected unless the unit is set to the pause mode before pressing the **EJECT** button.

13. JOG ADJUST dial

Use to adjust the felt resistance (light/heavy) of the jog dial when it is rotated.

A 14. **VINYL SPEED ADJUST TOUCH/BRAKE dial**

When the **JOG MODE SELECT** button is set to [VINYL], this dial determines the deceleration speed until play stops when the surface of the jog dial is pressed or the **PLAY/PAUSE** button is pressed.

When the **VINYL SPEED ADJUST TOUCH/BRAKE** dial is rotated counterclockwise, play stops quickly; when the dial is rotated clockwise, play decelerates more slowly before coming to a stop.

15. VINYL SPEED ADJUST RELEASE/START dial

When the **JOG MODE SELECT** button is set to [VINYL], this dial determines the acceleration speed until full playback speed is reached when the jog dial is released or the **PLAY/PAUSE** button is pressed.

When the **VINYL SPEED ADJUST RELEASE/START** dial is rotated counterclockwise, play accelerates to full speed quickly; when the dial is rotated clockwise, play accelerates more slowly before reaching full speed.

16. JOG MODE SELECT button

VINYL mode: When the surface of the jog dial is pressed during playback, play stops, and if the jog dial is then rotated, sound is produced in accordance with the degree of rotation.

- The currently set jog mode is stored in memory even when power is turned off.

CDJ mode: The above action does not occur when the jog dial is pressed.

17. VINYL indicator

Lights when jog mode is set to VINYL mode.

18. CDJ indicator

Lights when jog mode is set to CDJ mode.

19. TEMPO control range selector button

(TEMPO $\pm 6/\pm 10/\pm 16$ /WIDE)

Each time this button is pressed, the tempo adjust slider's variable range alternates between $\pm 6\%$, $\pm 10\%$, $\pm 16\%$ and WIDE.

20. MASTER TEMPO button/indicator

When pressed, the master tempo function alternates ON/OFF.

21. Tempo adjust slider

When moved toward the user (+ front), the track tempo increases, and when moved away from the user (- rear), the tempo decreases.

22. Tempo reset indicator

Regardless of the position of the tempo adjust slider, this indicator lights when the tempo adjustment is at "0" (normal tempo).

23. TEMPO RESET button

Regardless of the position of the tempo adjust slider, pressing this button causes the tempo to be reset instantly to "0" (normal tempo). Pressing the button once again releases the reset.

24. Jog dial display**25. Jog dial (+FWD/-REV)****26. Play/pause indicator**

Lights during playback, and flashes during pause mode.

27. PLAY/PAUSE button (▶/⏸)**28. Cue indicator**

When a cue point has been set, lights except during search.

Flashes in the pause mode to show that a new cue point can be input.

29. CUE button

Cue point setting

Back cue

Cue point sampler

30. SEARCH buttons (◀◀, ▶▶)**31. TRACK SEARCH buttons (◀◀◀, ▶▶▶)****32. Reverse indicator (REV)**

Lights when **DIRECTION** selector switch is set to reverse [REV].

33. DIRECTION selector switch (FWD/REV)

When set to [REV] (near side), reverse play is enabled.

34. HOT CUE REC MODE button

Switches the function of the **HOT CUE** button (record/call)

- Defaults to call mode when power is first turned on.

35. HOT CUE button/indicator (A, B, C)

When the indicators A, B, C light red, the hot cue point recording mode is enabled for that point. When any of the indicators A, B, C light green (HOT CUE point) or orange (HOT LOOP point), the respective call-up mode is enabled, and if the corresponding button is pressed, playback starts from the set hot cue (loop) point. When an indicator is not lighted, no hot cue (loop) point has been recorded.

Rear Panel**36. CONTROL connector**

When the accessory control cord is used to connect this connector to the corresponding CONTROL connector on a Pioneer DJ mixer, the DJ mixer can be used to control the CD player for fader start play and back cue.

Also, by connecting this connector to the CONTROL connector on another Pioneer DJ CD player, automatic relay play can be performed.

37. AUDIO OUT L, R connectors

RCA-type analog audio output jacks.

38. DIGITAL OUT connector

RCA type coaxial digital output connectors used to connect a DJ mixer or AV amplifier, CD player, etc., equipped with digital input connectors. The digital outputs here support all DJ and other functions, but only audio data is output (without subcodes; CD graphics are not supported).

39. POWER ■ OFF/■ ON switch**40. AC inlet (AC IN)**

Use the accessory power cord to connect this inlet to a standard AC power outlet.

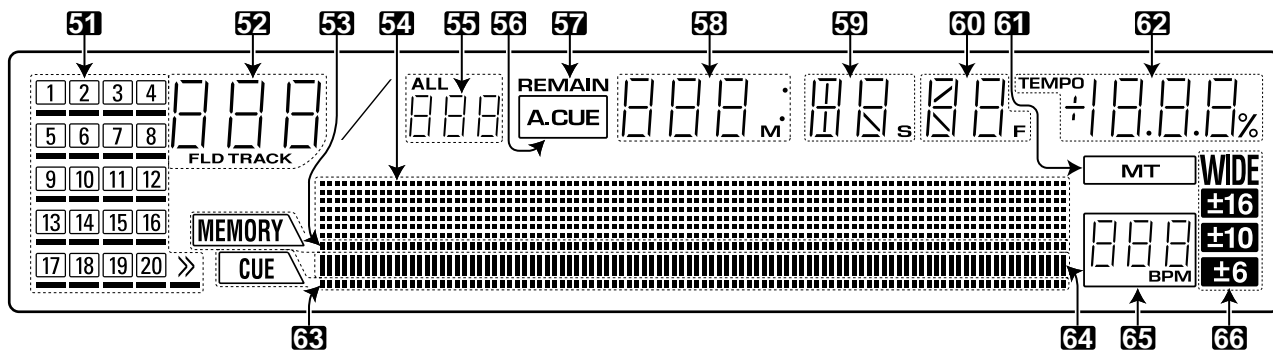
Front Panel**41. Memory card indicator**

This indicator lights with a memory card is loaded and the door is closed, and flashes during memory card access.

- Do not open the door or turn off power while the indicator is flashing.

42. Memory card door and slot**43. Forced eject hole****44. Disc loading slot**

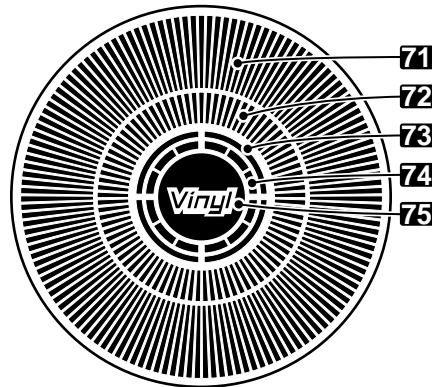
Display Section



- 51. Calendar display (1 to 20, >>)**
The tracks following the currently playing track are lighted. If more than 21 following tracks are set, the >> indicator will light. An underline appears underneath track numbers for which cue points or loops have been set.
- 52. Track number/folder number display (TRACK/FLD)**
When playing an audio CD, the [TRACK] indicator lights, and the two-digit track number appears (01 to 99).
When playing MP3, [TRACK] lights and the track number is displayed (01 to 999). During folder search, the [FLD] indicator lights, and a two-digit folder number is displayed (00 to 99).
- 53. MEMORY display**
If the currently selected track includes cue memory or loop memory, the [MEMORY] indicator lights and the MEMORY display indicates the relative starting position of the cue or loop. Two dots are used to display 1 point, and even if multiple starting positions are included within a single point, only one point is displayed.
- 54. Dot matrix display (100x7 dots)**
The dot matrix is used to display TEXT, WAVE, guides and other information. Text up to 48 characters can be displayed (text longer than 16 characters is scrolled).
When WAVE display is used, the entire track is scaled so as to fit into the width of the display (100 dots width), with playback level shown across the display.
- 55. ALL track number display**
When playing an audio CD, this display shows the total number of tracks on the disc. During MP3 playback, the number of tracks inside the folder is shown.
- 56. Auto cue indicator (A.CUE)**
Lights when auto cue is ON.
- 57. REMAIN indicator**
This indicator lights to indicate that track's remaining time is being displayed.
- 58. Time (minutes) display (M)**
- 59. Time (seconds) display (S)**
- 60. Frame display (F)**
Seventy-five frames equal one second.
- 61. Master tempo indicator (MT)**
Lights when the master tempo function is ON.
- 62. TEMPO display**
Displays change in playing speed (tempo) caused by movement of the tempo adjust slider.
- 63. CUE point indicator**
When a point is recorded in the CUE button or LOOP IN button for the currently selected track, the [CUE] indicator lights and the point's relative starting position is shown in the display (2 lighted dots).
- 64. Playing address display**
To provided a quick grasp of the current track's elapsed time and remaining playing time, the entire track is shown as a bar graph scaled over the entire width of the display.
 - During elapsed time display, the bar graph's indicator segments turn on from left to right.

- During remaining time display, the bar graph indicator segments turn off from left to right.
 - When a track has less than 30 seconds of remaining play time, the graph flashes slowly; when less than 15 seconds remain, the flashing becomes quicker.
- 65. BPM display (0 to 360 BPM)**
This display shows the Beats-Per-Minute (BPM) of the currently playing track (detection range 70 to 180 BPM). The automatic BPM counter may be unable to compute the correct BPM for some tracks.
 - 66. Tempo control range display (±6, ±10, ±16, WIDE)**
Displays the variable range of the tempo adjust slider as selected with the tempo control range selector button.

Jog dial display



- 71. Operation display**
This display shows the relative playing position, with one revolution equivalent to 135 frames. During playback, the display rotates, and it stops during pause mode.
- 72. Cue point position indicator**
Indicates position of cue points.
- 73. Audio memory status indicator**
This indicator flashes during audio memory write, and lights when writing has been sufficiently completed. When the indicator is flashing, it may not be possible to record real time cue points, or hot cue points. The indicator also flashes when memory insufficiency occurs due to scratch operation.
- 74. Jog touch detection indicator**
In VINYL mode, this indicator lights to indicate that the jog dial surface has been touched.
- 75. VINYL mode indicator**
Lights during VINYL mode.

A



■ Lubricants List

| Name | Part No. | Remarks |
|---------|----------------------|---|
| Grease | GYA1001 (ZLB-PN397B) | Refer to "2.3 CONTROL PANEL SECTION", "2.4 SLOT-IN MECHA. SECTION", "2.5 TRAVERSE MECHA. Assy-S". |
| Grease | GEM1007 (ZLB-PN948P) | Refer to "2.5 TRAVERSE MECHA. Assy-S". |
| Dyefree | GEM1036 (ZLX-ME413A) | Refer to "2.4 SLOT-IN MECHA. SECTION". |
| Grease | (ZLB-HFD1600) | Refer to "2.3 CONTROL PANEL SECTION". |

B



■ Cleaning

| Name | Part No. | Remarks |
|-----------------|----------|---|
| Cleaning liquid | GEM1004 | Used to pickup lens cleaning. |
| Cleaning paper | GED-008 | Refer to "2.5 TRAVERSE MECHA. Assy-S", "7.1.3 DISASSEMBLY". |

C

D

E

F