

Service
Service

Service Manual

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SPECIFICATIONS

■ General

| | |
|-----------------------------|--|
| Power supply: | 12V DC(11V-16V) Test voltage 14.4V, negative ground |
| Maximum power output: | 45Wx4 channels |
| Continuous power output: | 20Wx4 channels (4Ω, 10% T.H.D.) |
| Suitable speaker impedance: | 4-8 ohm |
| Pre-Amp output voltage: | 4.0V (CD play mode: 1KHz, 0 dB, 10 KΩ load) |
| Fuse: | 15A |
| Dimensions(WxHxD) | 178x50x166mm |
| Weight: | 1.7kg |
| Aux-in Level: | ≥300 mV |
| Sub-out: | 4.0V |

■ Components

| | |
|---------------------------|---|
| Mounting collar | 1 |
| Machine screws M5x6mm | 4 |
| Mounting bolt (50mm) | 1 |
| Wire connector | 1 |
| Removable face plate case | 1 |
| Trim plate | 1 |
| L-key | 2 |
| Operating instructions | 1 |
| Rubber cushion | 1 |
| Remote control | 1 |

■ FM Stereo Radio

| | |
|-----------------------|--|
| Frequency range: | 87.5-108.0 MHz (EUROPE MODE) 87.5-107.9MHz (USA MODE) |
| Usable sensitivity: | 10 dBμ |
| Frequency response: | 30Hz-15kHz(-3dB) |
| Stereo separation: | 30dB(1kHz) |
| Image response ratio: | 50dB |
| IF response ratio: | 70dB |
| Signal/noise ratio | >55dB |

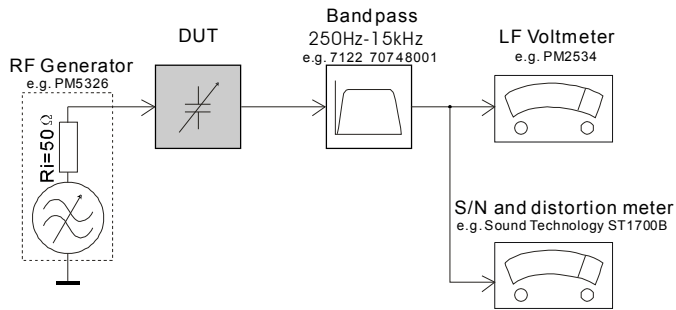
■ Disc Player

| | |
|----------------------------|---------------------------|
| System: | Disc digital audio system |
| Frequency response: | 20Hz - 20kHz |
| Signal/noise ratio: | >80 dB |
| Total harmonic distortion: | Less than 0.20%(1 kHz) |
| Channel separation: | >60 dB |
| Video: | |
| video output: | 1 ±0.2V |
| horizontal nesowtiou: | ≥500 lines |

Note: Specifications and design are subject to change without notice for product improvements.

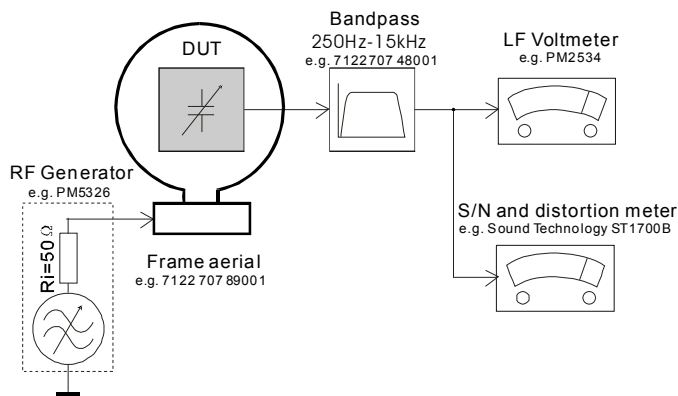
MEASUREMENT SETUP

Tuner FM



Use a bandpass filter to eliminate hum(50Hz,100Hz) and disturbance from the pilotone(19kHz,38kHz).

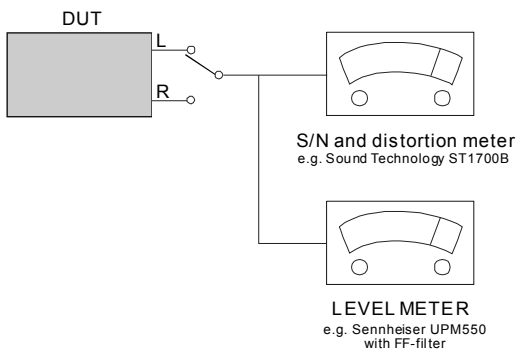
Tuner AM (MW,LW)



To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday's cage.
Use a bandpass filter (or at least a high pass filter with 250Hz) to eliminate hum (50Hz,100Hz).

CD

Use Audio Signal Disc SBC429 4822 397 30184
(replaces test disc 3)



HANDLING CHIP COMPONENTS

GENERAL

Diagram illustrating the general assembly of a chip component on a PCB. The component is mounted on a copper track, secured with glue. Labels include: SOLDER, CHIP COMPONENT, SOLDER, COPPER TRACK, P.C.B., and GLUE. Below this, a 'SERVICE PACKAGE' is shown containing several chip components.

DISMOUNTING

Diagram illustrating the dismantling process in three steps:

- A:** Using a VACUUM PISTON (4822 395 10082) and SOLDERING IRON (e.g. WELDER Solder tip PT-H7).
- B:** Using SOLDERING IRON and SOLDER WICK (4822 321 40042), with tweezers (e.g. A PAIR OF TWEEZERS) and HEATING.
- C:** Using SOLDERING IRON and SOLDER WICK for CLEANING.

PRECAUTIONS

Diagram illustrating correct and incorrect handling methods:

- COPPER TRACK:** Correct method uses SOLDERING IRON. Incorrect method uses tweezers.
- CHIP COMPONENT:** Correct method uses SOLDERING IRON. Incorrect method involves dipping the component into a container.

MOUNTING

Diagram illustrating the mounting process in two steps:

- A:** Using tweezers (e.g. A PAIR OF TWEEZERS).
- B:** Using SOLDERING IRON, SOLDER (φ0.5-0.8mm), and PRESSURE. SOLDERING TIME < 3 seconds / side.

EXAMPLES

Diagram illustrating various examples of correct and incorrect soldering techniques:

- CORRECT:** Shows proper soldering technique.
- INCORRECT:** Shows various incorrect techniques, including excessive solder, incorrect iron placement, and incorrect pressure application.

GB WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

ESD**NL WAARSCHUWING**

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

F ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques(ESD).

Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

D WARNING

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen(ESD).

Unvorsichtige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.

Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.

Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

I AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche(ESD).

La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione.

Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.

Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

GB ATTENTION

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne."

NL

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

**F**

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

GB Warning!

Invisible laser radiation when open. Avoid direct exposure to beam.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

S Varning!

Osynlig laserstrålning när apparaten är öppnad och spärrar är urkopplad. Betrakta ej strålen.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

SF Varoitus!

Avatussa laitteessa ja suojalukituksen ohitettaessa olet alltiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

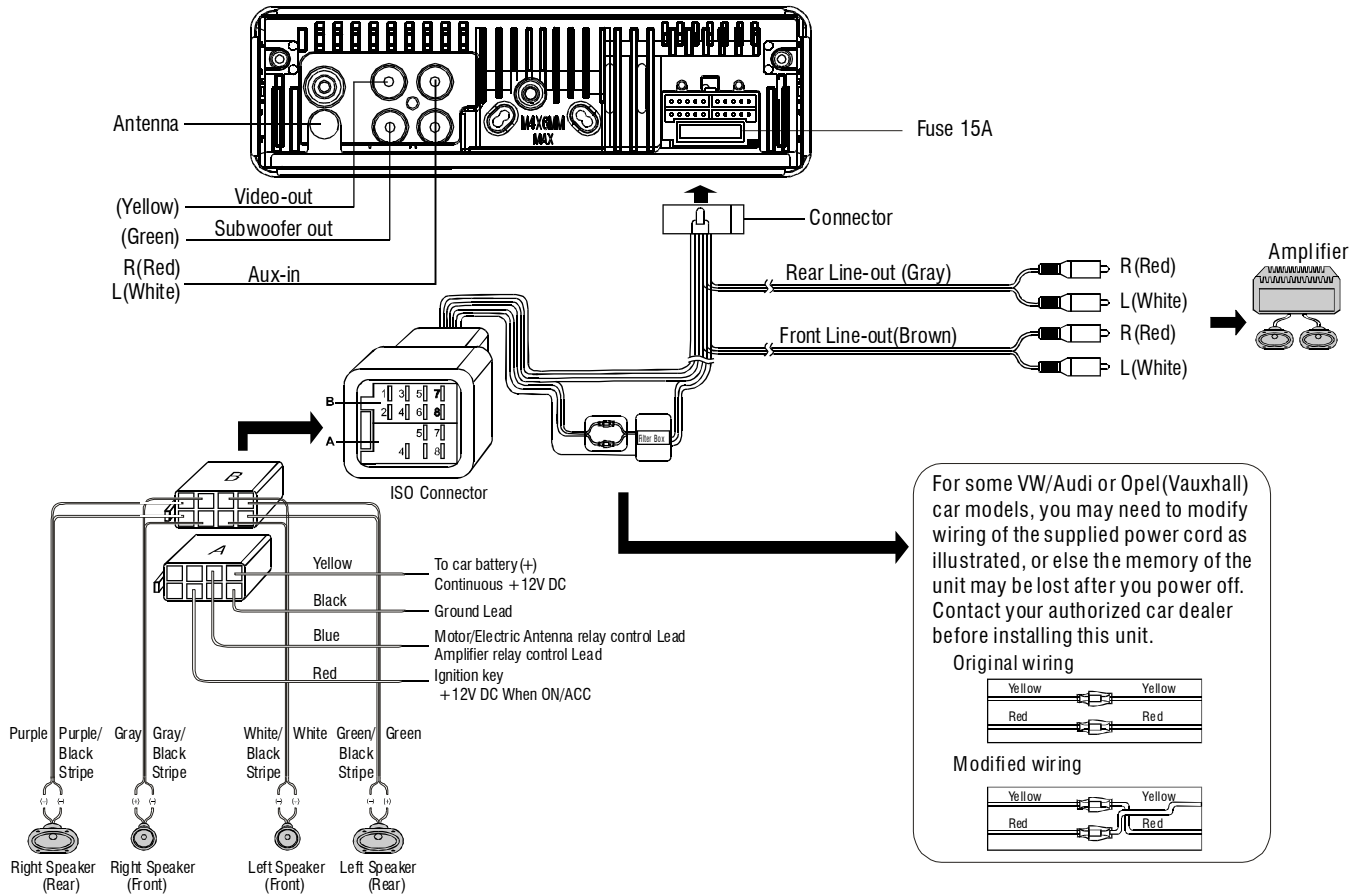
"After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist. The leakage current must not exceed 0.5mA."

DK Advarsel!

Usynlig laserstrålning ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for strålning.

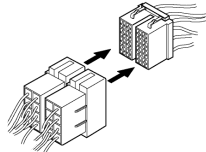
PREPARATIONS

■ Wiring Diagram

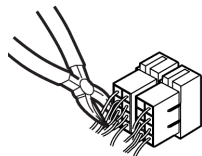


■ Using the ISO Connector

1. If your car is equipped with the ISO connector, then connect the ISO connectors as illustrated.



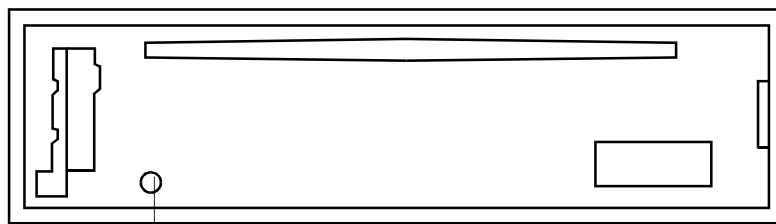
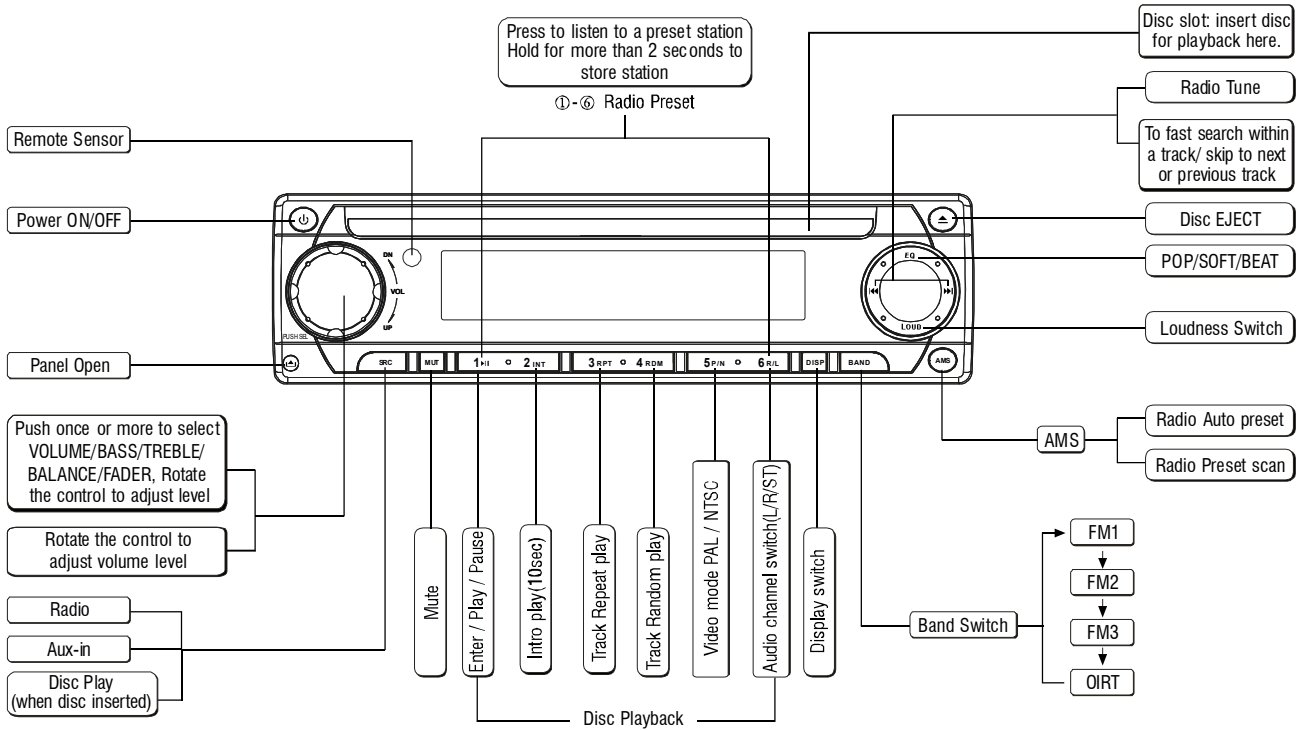
2. For connections without the ISO connectors, check the wiring in the vehicle carefully before connecting, incorrect connection may cause serious damage to this unit. Cut the connector, connect the colored leads of the power cord to the car battery, as shown in the colour code table below for speaker and power cable connections



| LOCATION | FUNCTION | |
|----------|-----------------------|--|
| | Connector A | Connector B |
| 1 | | Rear Right (+) - Purple |
| 2 | | Rear Right (-) - Purple / Black Stripe |
| 3 | | Front Right (+) - Gray |
| 4 | ACC+/red | Front Right (-) - Gray / Black Stripe |
| 5 | Auto Antenna/blue | Front Left (+) - White |
| 6 | | Front Left (-) - White / Black Stripe |
| 7 | Battery 12V(+)/yellow | Rear Left (+) - Green |
| 8 | Ground/black | Rear Left (-) - Green / Black Stripe |

CONTROLS

Power ON/OFF : Press  to turn the unit on . Long press  to turn the unit off.

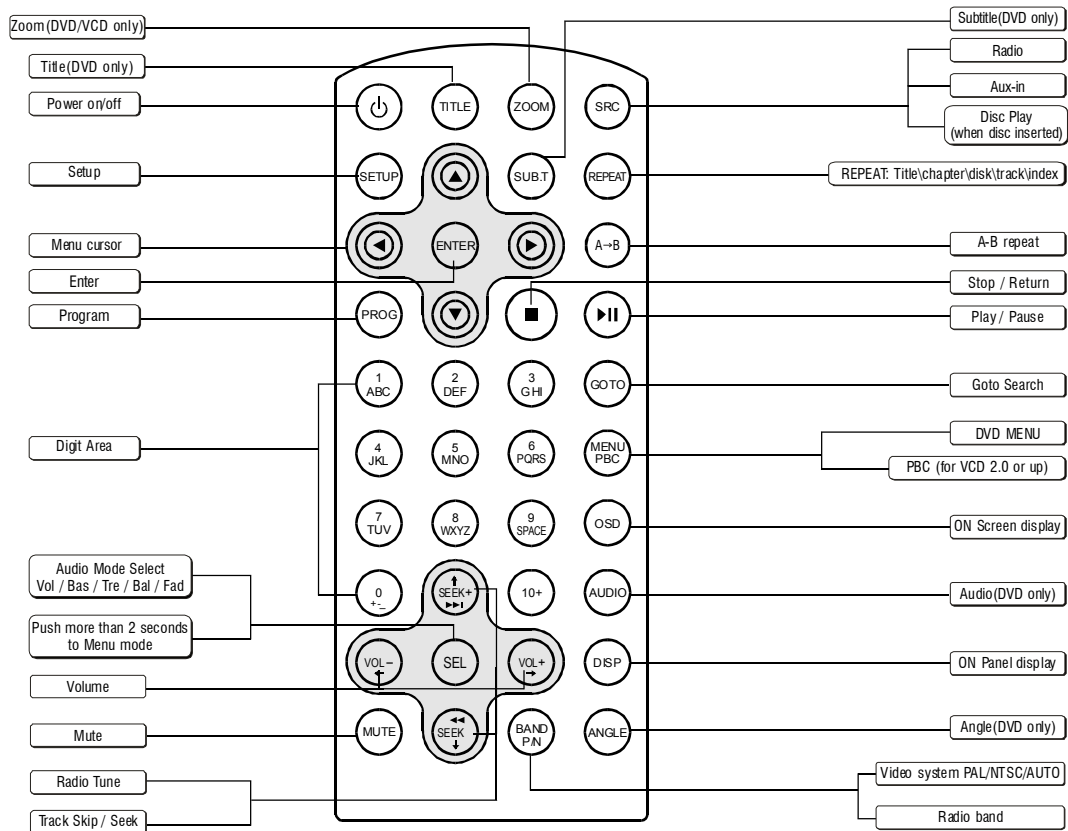


RESET HOLE

Note: Pressing the RESET hole will erase the clock setting and stored stations.

REMOTE CONTROLS

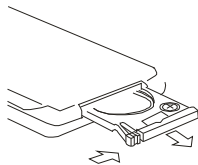
Power On/Off : Press  to turn on/off the unit.



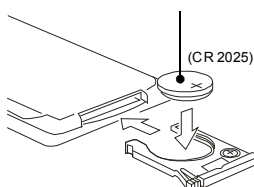
Replacing the lithium battery of remote control unit.

* When the operation range of the card remote control becomes short or no Properly, replace the lithium battery with a new one. Make sure the battery polarity replacement is correct.

1. Pull out the battery holder while pressing the stopper.



2. Insert the button-type lithium battery with the (+) mark facing upward. Insert the battery holder into the remote control.



WARNINGS:

- Store the battery in place where children cannot reach. If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble or heat the battery or dispose it in a fire.
- Doing any of these things may cause the battery to give off heat, crack or start a fire.
- Do not leave the battery with other metallic materials. Doing this may cause the battery to give off heat, crack or start a fire.
- When throwing away or saving the battery, wrap it in tape and insulate; otherwise, the battery may start to give off heat, crack or start a fire.
- Do not poke the battery with tweezers or similar tools. Doing this may cause the battery to give off heat, crack or start a fire.

MAINTENANCE AND TROUBLESHOOTING

Maintenance

Clearing disc

When a disc becomes dirty clean it with a cleaning cloth.
Wipe the disc from the center out.

Cleaning the disc lens

After prolonged use, dirt or dust may accumulate at the lens. To ensure good playback quality, clean the disc with Philips CD lens Cleaner or any commercially available cleaner. Follow the instructions supplied with cleaner.

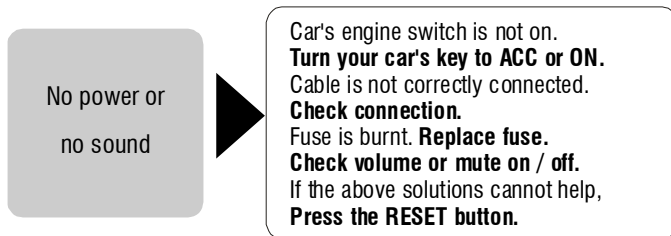
Cleaning the heads and the Tape Parts

To ensure good playback quality, clean the heads (A), the capstan (B), and pressure roller (C) after every 50 hours of tape operation. Use a cotton swab slightly moistened with cleaning fluid or alcohol. You can also clean the heads by playing a cleaning tape once.

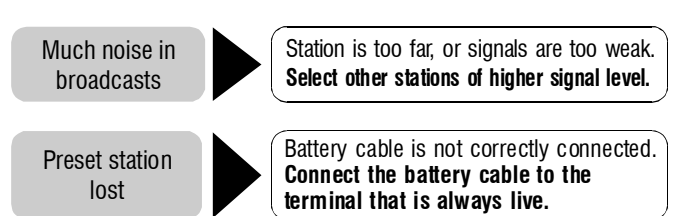
Troubleshooting

If you suspect something is wrong, immediately switch power off. Immediately stop using it and call the store where you purchased it. Never try to repair the unit yourself because it is dangerous to do so.

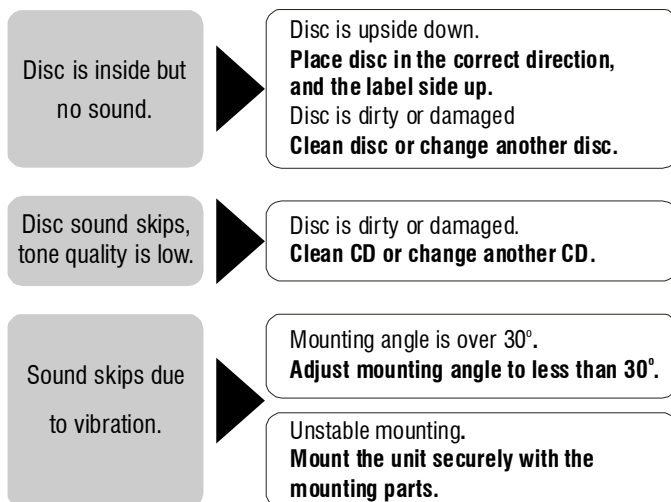
■ General



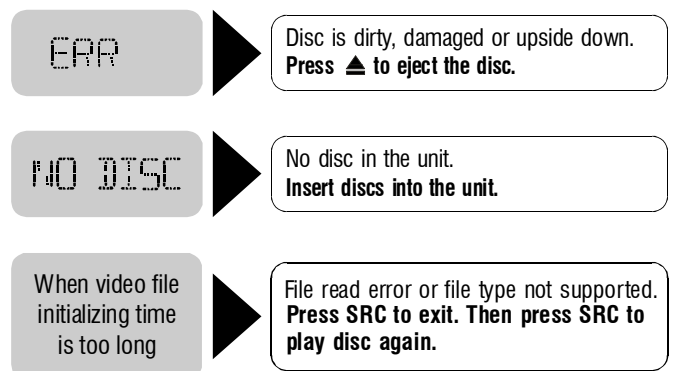
■ Radio



■ Disc



■ Error Display Messages



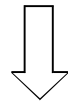
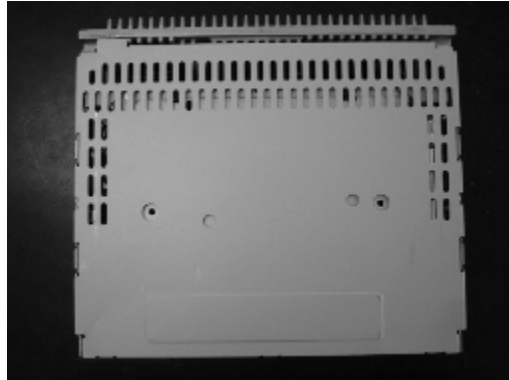
DISMANTLING INSTRUCTIONS

2-1

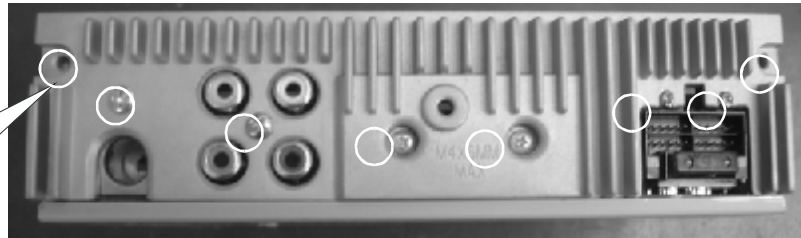
1 Pull out the short sheet from main set.



2 Remove top and bottom covers.



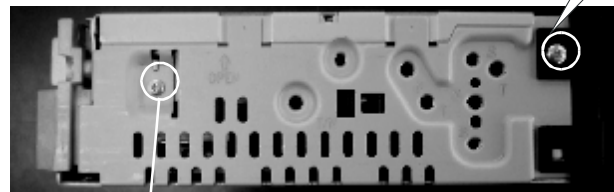
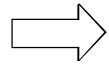
Loosen 8 pcs screw to remove heatsink & Top Cover & Bottom Cover.



3 Loosen 4 pcs screw to remove Front Cabinet.

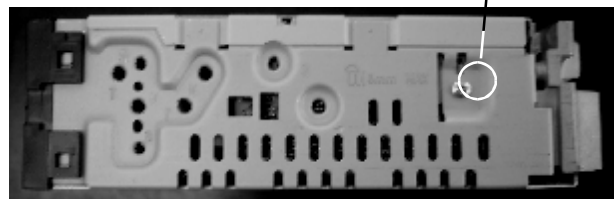


Remove 1 pcs screw from Front Cabinet.



Remove 1 pcs screw on the left side of Front Cabinet.

Remove 2 pcs screw to dismantle the deck.

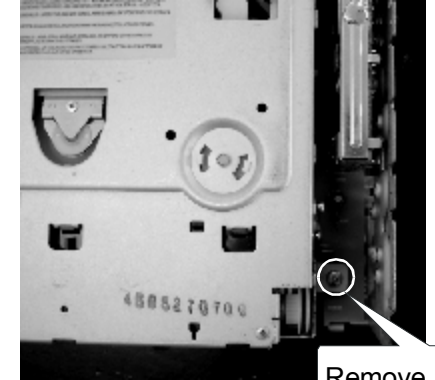
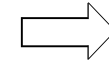


2-1

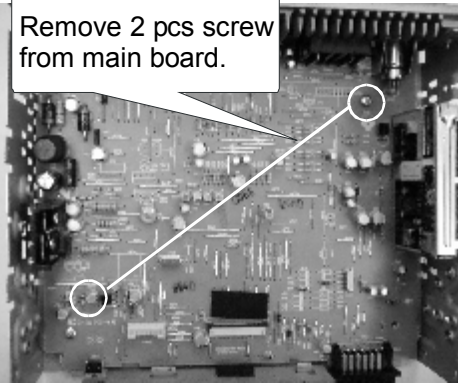
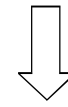
4 Remove CD loader



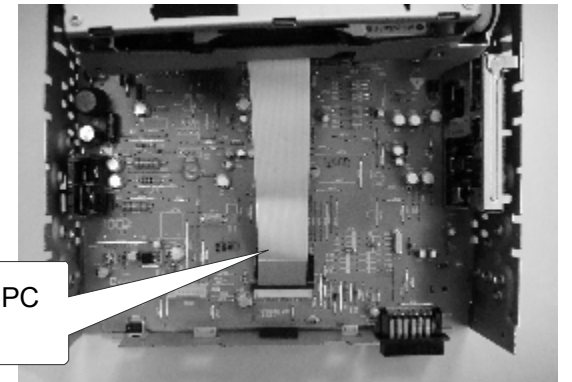
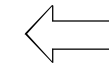
Remove 2 pcs screw from metal side.



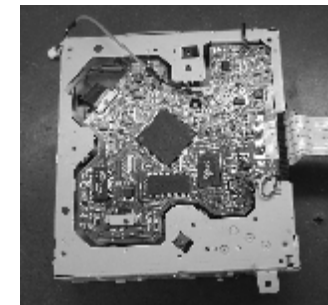
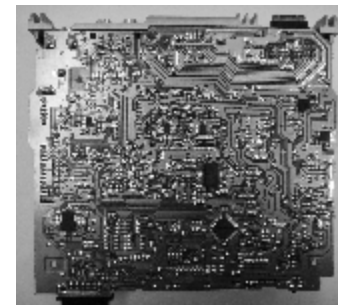
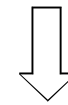
Remove 1 pcs screw from metal side.



Remove 2 pcs screw from main board.



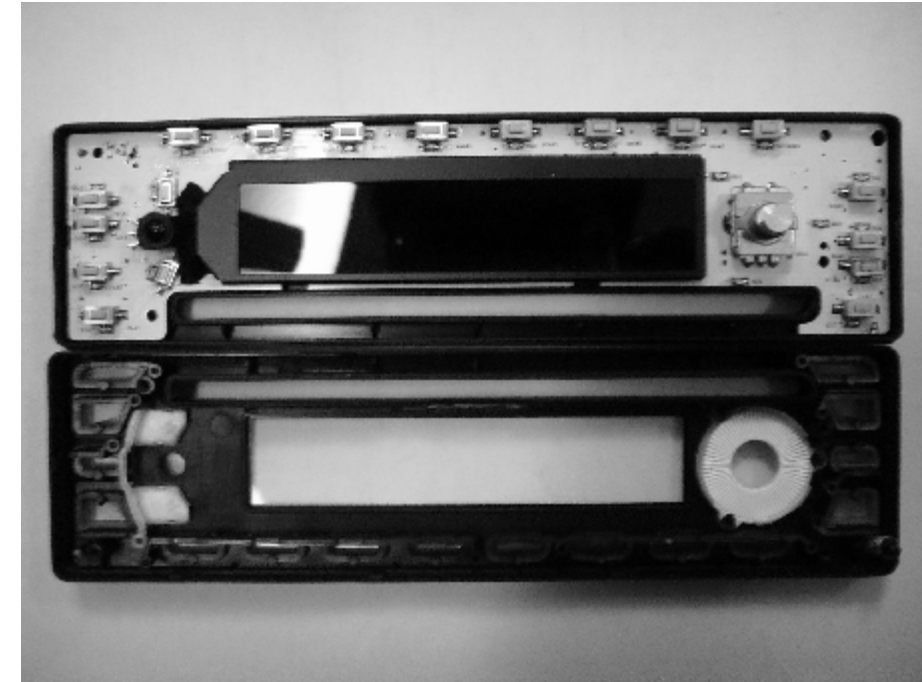
Pull out FPC wire.



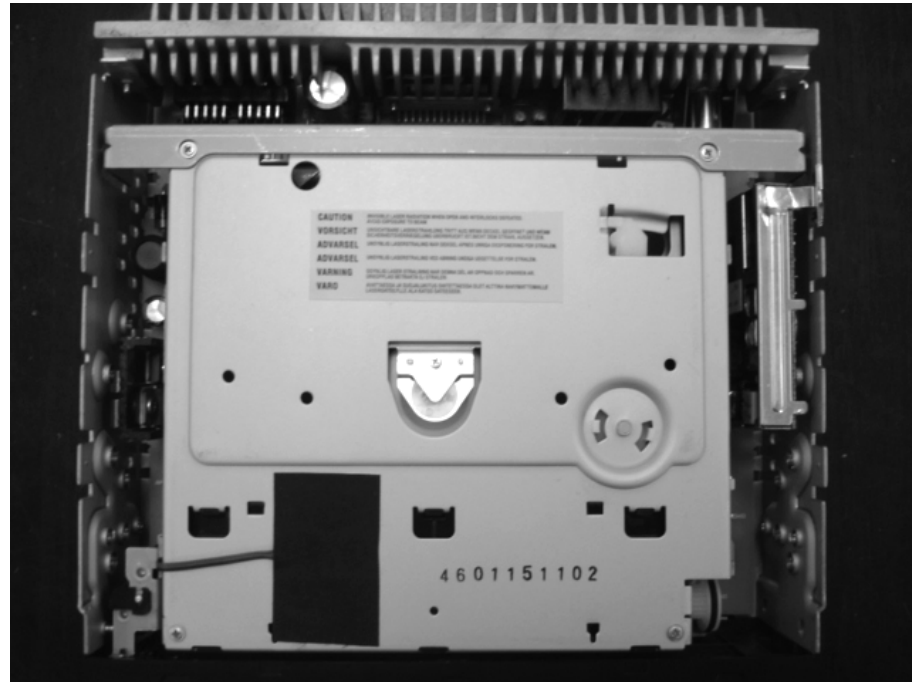
DISMANTLING INSTRUCTIONS



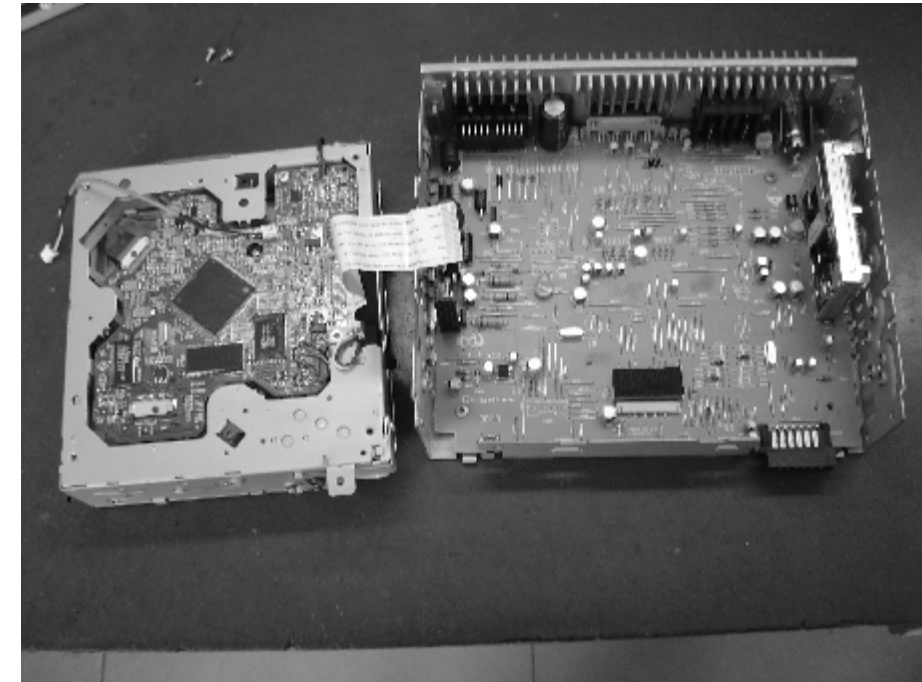
Service Position A



Service Position C



Service Position B

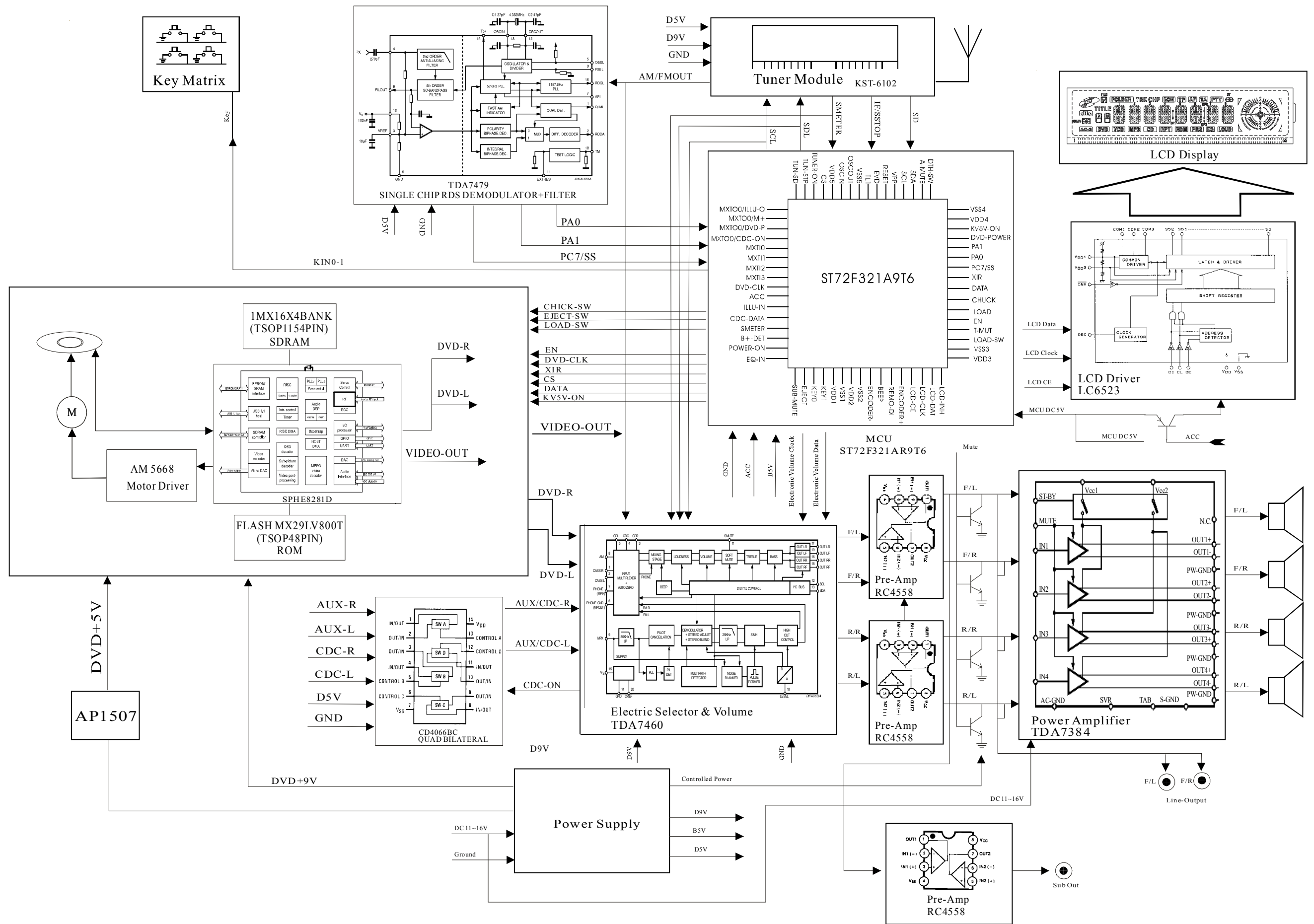


Service Position D

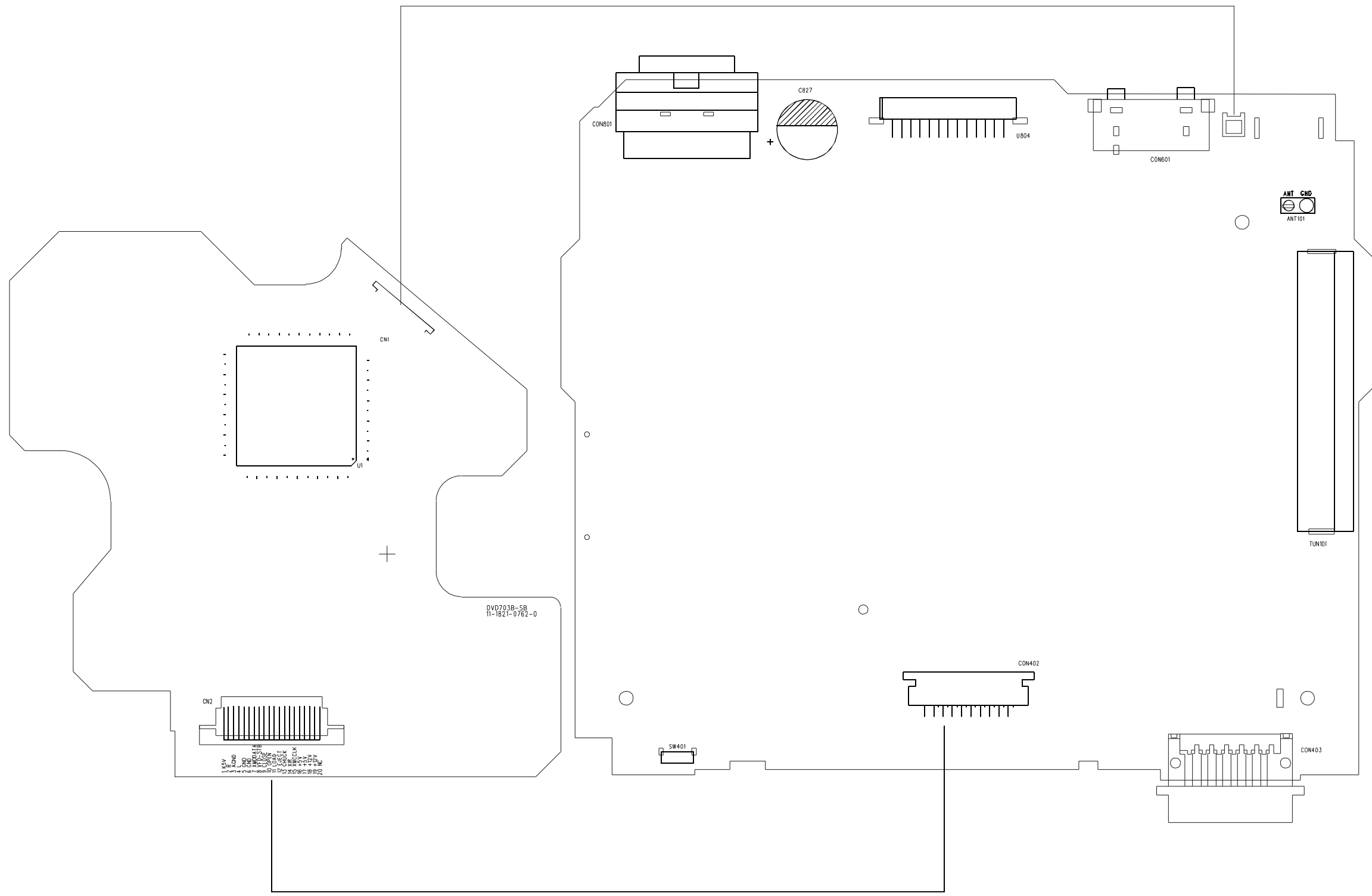
SET BLOCK DIAGRAM

3

3



SET WIRING DIAGRAM

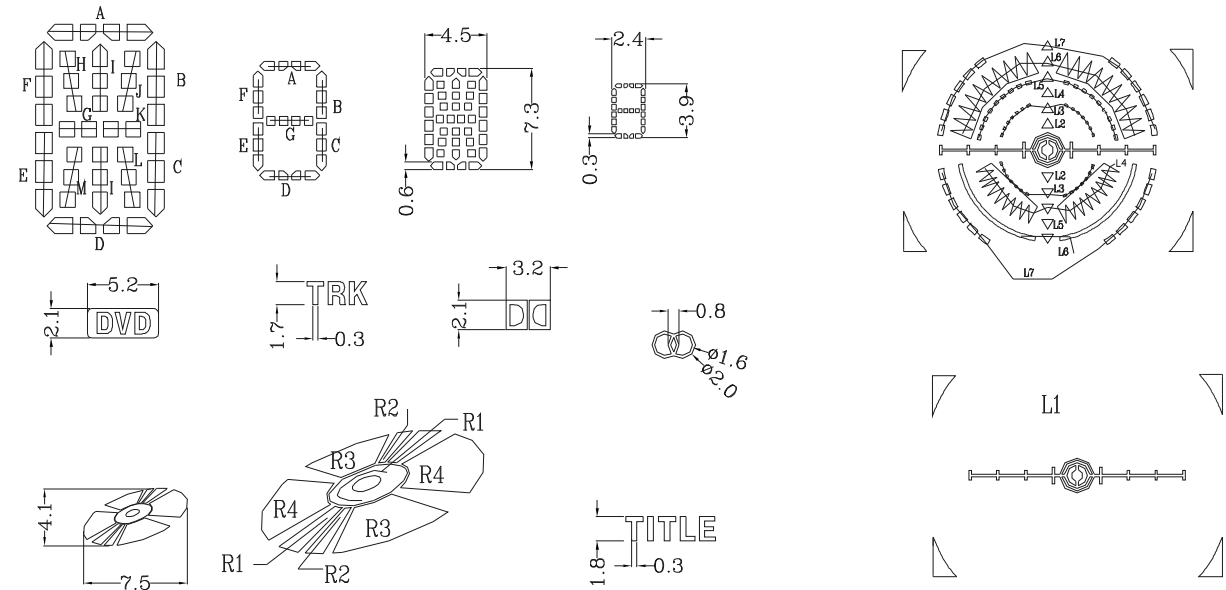
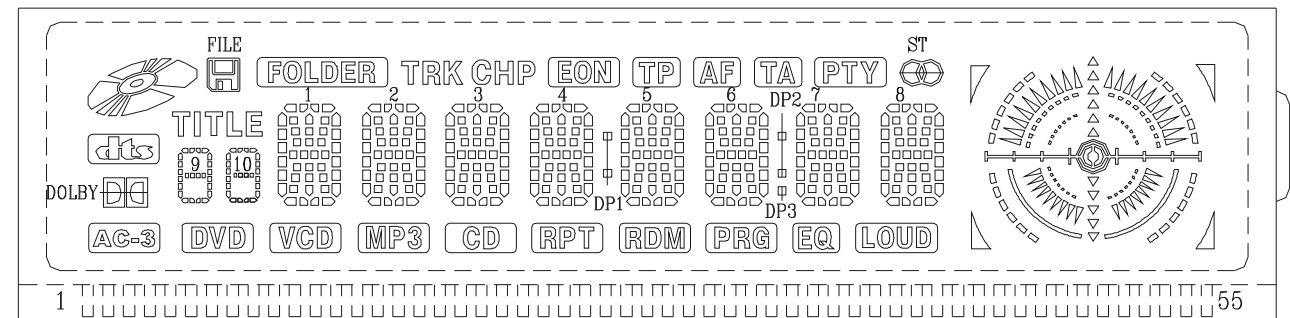


KEY BOARD

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LCD PIN CONNECTION

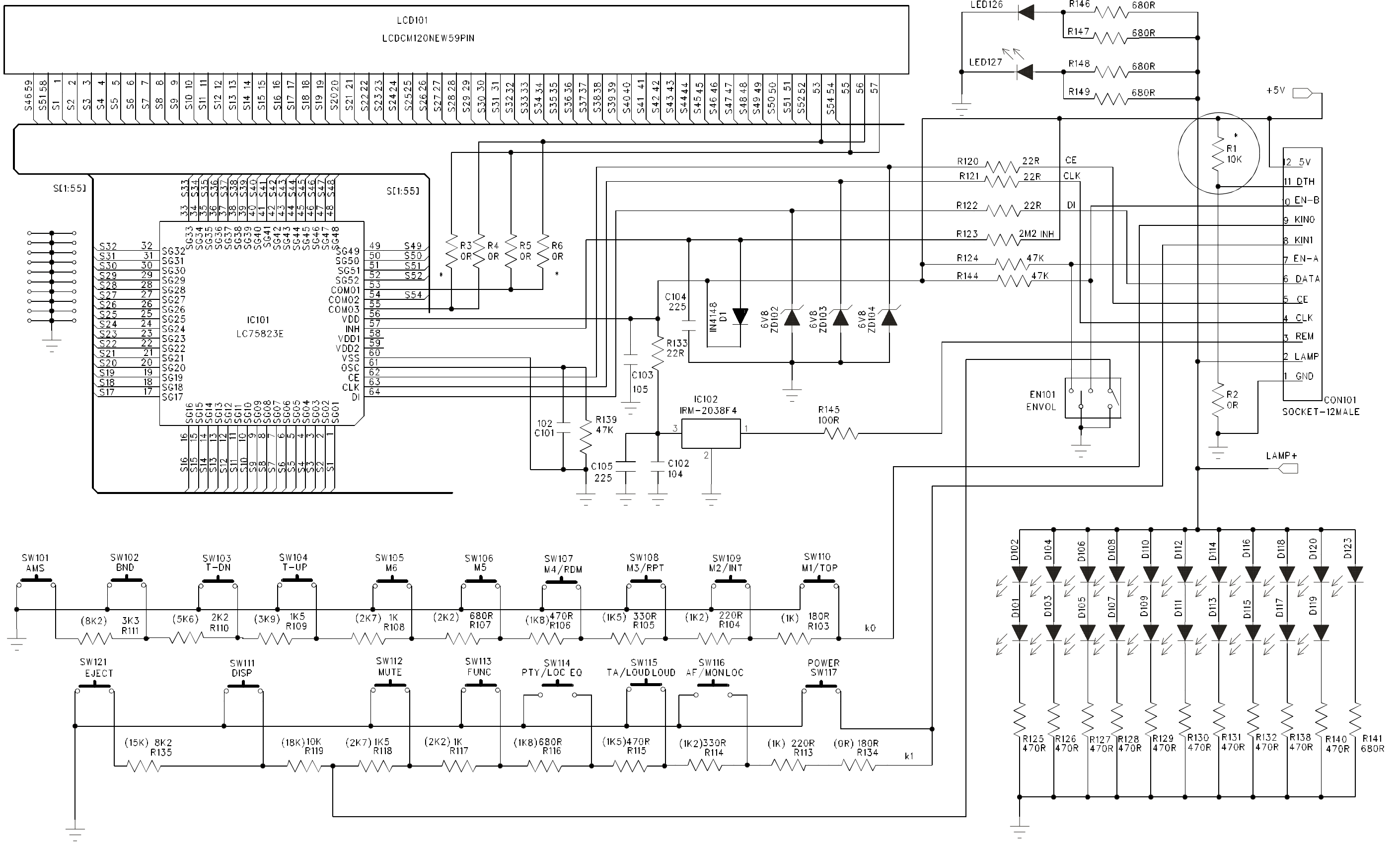


PIN SEGMENT DISPLAY

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|-------|----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|-----|----|----|----|----|-----|----|----|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| COM1 | TITLE | 9A | 9B | 10A | 10B | CD | 1E | 1M | 1D | 1L | R2 | 2E | 2M | 2D | 2L | VCD | 3E | 3M | 3D | 3L | CHP | 4E | 4M | 4D | 4L | DP1 | 5E | 5M |
| COM2 | 9F | 9G | 9C | 10D | 10C | DVD | 1G | 1I | 1K | 1C | R3 | 2G | 2I | 2K | 2C | DP2 | 3G | 3I | 3K | 3C | TRK | 4G | 4I | 4K | 4C | RDM | 5G | 5I |
| COM3 | 9E | 9D | 10G | 10E | 10F | 1F | 1H | 1A | 1J | 1B | 2F | 2H | 2A | 2J | 2B | 3F | 3H | 3A | 3J | 3B | 4F | 4H | 4A | 4J | 4B | 5F | 5H | 5A |

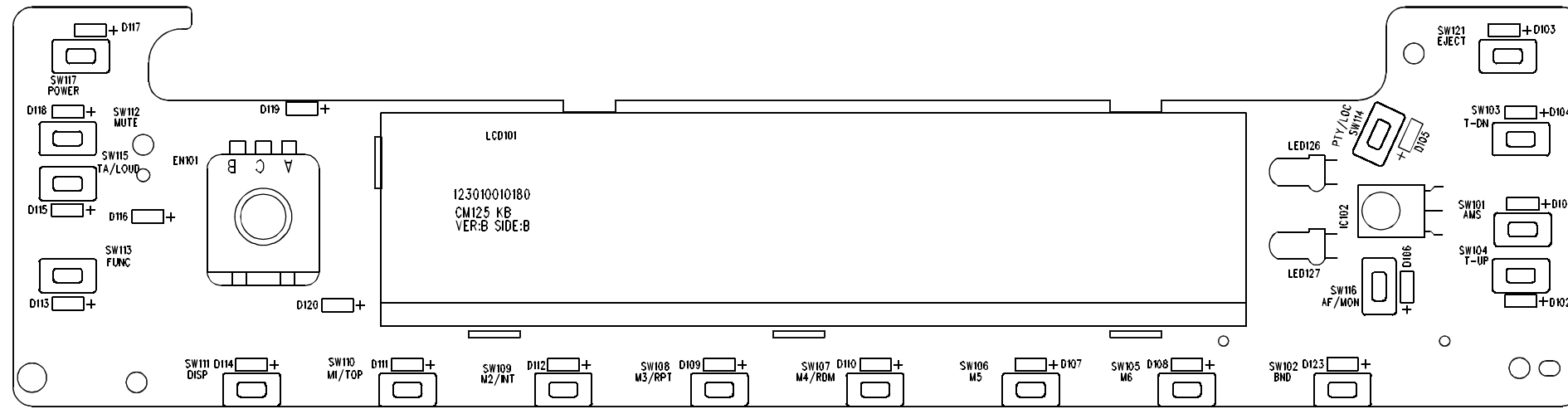
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|----|----|-----|----|----|----|----|--------|----|----|----|----|------|----|----|----|----|----|-----|-----|-----|-------|----|----|------|------|------|
| PIN | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 |
| COM1 | 5D | 5L | RPT | 6E | 6M | 6D | 6L | FOLDER | 7E | 7M | 7D | 7L | LOUD | 8E | 8M | 8D | 8L | R4 | EON | PTY | DTS | DOLBY | L6 | L3 | COM1 | | |
| COM2 | 5K | 5C | MP3 | 6G | 6I | 6K | 6C | FILE | 7G | 7I | 7K | 7C | ST | 8G | 8I | 8K | 8C | R1 | DP3 | AF | PRG | AC-3 | L5 | L2 | | COM2 | |
| COM3 | 5J | 5B | 6F | 6H | 6A | 6J | 6B | 7F | 7H | 7A | 7J | 7B | 8F | 8H | 8A | 8J | 8B | | TA | TP | EQ | L7 | L4 | L1 | | | COM3 |

KEY BOARD - CIRCUIT DIAGRAM

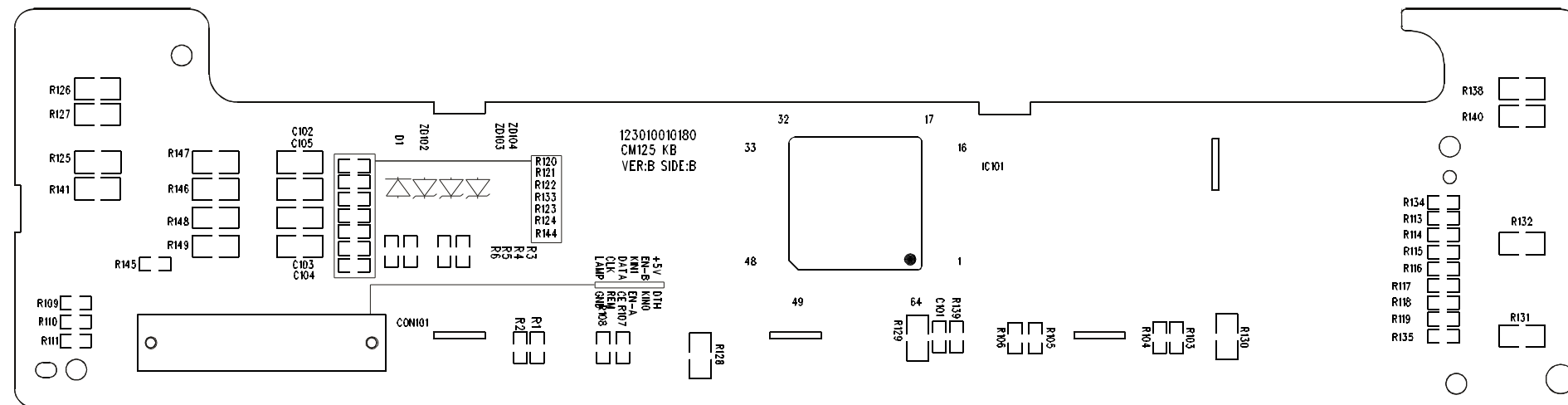


| | R1 | R2 | R3 | R4 | R5 | R6 |
|---------|-----|----|----|----|----|----|
| DVD125S | 10K | / | OR | / | / | OR |

KEY BOARD - LAYOUT DIAGRAM TOP VIEW



KEY BOARD - LAYOUT DIAGRAM BOTTOM VIEW



ELECTRICAL PARTS LIST - KEY BOARD

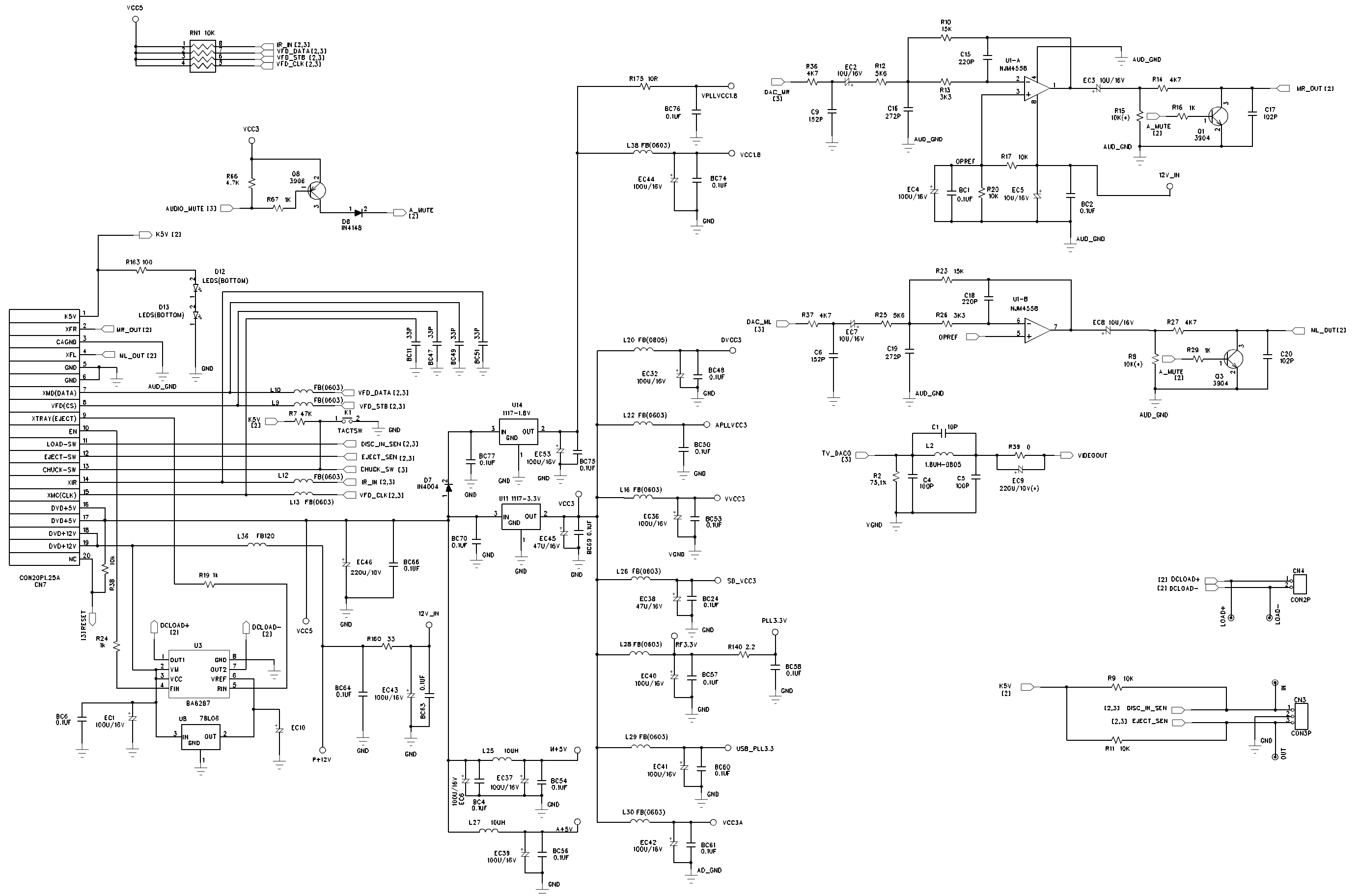
| Part NO. | Description | QTY | Location |
|-------------------|--------------------------------------|-----|-------------------------------|
| 83802DVD125EKB010 | DVD125E GREEN KB SMT Assm | 1 | |
| 143010000180 | PCB,KB,CM125,FR4,1.2mm,165.0X42.0mm | 1 | |
| 142400000338 | IC,SC75823E,QFP-64-14X14-0.8,SL | 1 | IC101 |
| 143210000016 | TACT SW,KPS-1107YB-130 | 16 | SW101~SW113,SW115,SW117,SW121 |
| 143210000039 | TACT SW,TS1107GS-3,160gf | 2 | SW114,SW116 |
| 143405000025 | LED,GREEN,0603,10MA,2.2V | 21 | D101~D120,D123 |
| 121606000471 | RES,470Ω,±5%,1/10W,0805 | 10 | R125~R132,R138,R140 |
| 121606000681 | RES,680Ω,±5%,1/10W,0805 | 5 | R141,R146~R149 |
| 121604000220 | RES,22Ω,±5%,1/16W,0603 | 4 | R120~R122,R133 |
| 121604000473 | RES,47KΩ,±5%,1/16W,0603 | 4 | R123,R124,R144,R139 |
| 121604000000 | RES,0Ω,±5%,1/16W,0603 | 3 | R4,R5,R2 |
| 121604000101 | RES,100Ω,±5%,1/16W,0603 | 1 | R145 |
| 121604000181 | RES,180Ω,±5%,1/16W,0603 | 2 | R103,R134 |
| 121604000221 | RES,220Ω,±5%,1/16W,0603 | 2 | R104,R113 |
| 121604000331 | RES,330Ω,±5%,1/16W,0603 | 2 | R105,R114 |
| 121604000471 | RES,470Ω,±5%,1/16W,0603 | 2 | R106,R115 |
| 121604000681 | RES,680Ω,±5%,1/16W,0603 | 2 | R107,R116 |
| 121604000102 | RES,1KΩ,±5%,1/16W,0603 | 2 | R108,R117 |
| 121604000152 | RES,1K5Ω,±5%,1/16W,0603 | 2 | R109,R118 |
| 121604000222 | RES,2K2Ω,±5%,1/16W,0603 | 1 | R110 |
| 121604000332 | RES,3K3Ω,±5%,1/16W,0603 | 1 | R111 |
| 121604000103 | RES,10KΩ,±5%,1/16W,0603 | 1 | R119 |
| 121604000822 | RES,8K2Ω,±5%,1/16W,0603 | 1 | R135 |
| 121803000102 | CAP,1nF,±10%,16V,X7R,0603 | 1 | C101 |
| 121806000105 | CAP,0805,105,50V,Y5V,+80%-20% | 2 | C103,C104 |
| 121806000225 | CAP,2.2μF,+80%,-20%,16V,X7R,0805 | 1 | C105 |
| 121803000104 | CAP,0.1μF,+80%-20%,16V,Y5V,0603 | 1 | C102 |
| 142212010002 | PHOTO DIODE,IRM2,638AF4,5V/1.1 | 1 | IC102 |
| 143825000189 | CONNECTOR,12PIN,1.6mm,MALE CONNECTOR | 1 | CON101 |
| 121658000107 | ENCODER,EC110201M2D-HA1-012 | 1 | EN101 |
| 143400010004 | DVD120,NEGATIVE COLORED (SA) | 1 | LCD101 |
| 143405000060 | LED,WHITE,φ3,204-15AUWW,20MA,3.5V | 2 | LED126,LED127 |
| 121290000265 | CMV100,CONNECT SHEET,PC | 1 | |

SERVO BOARD

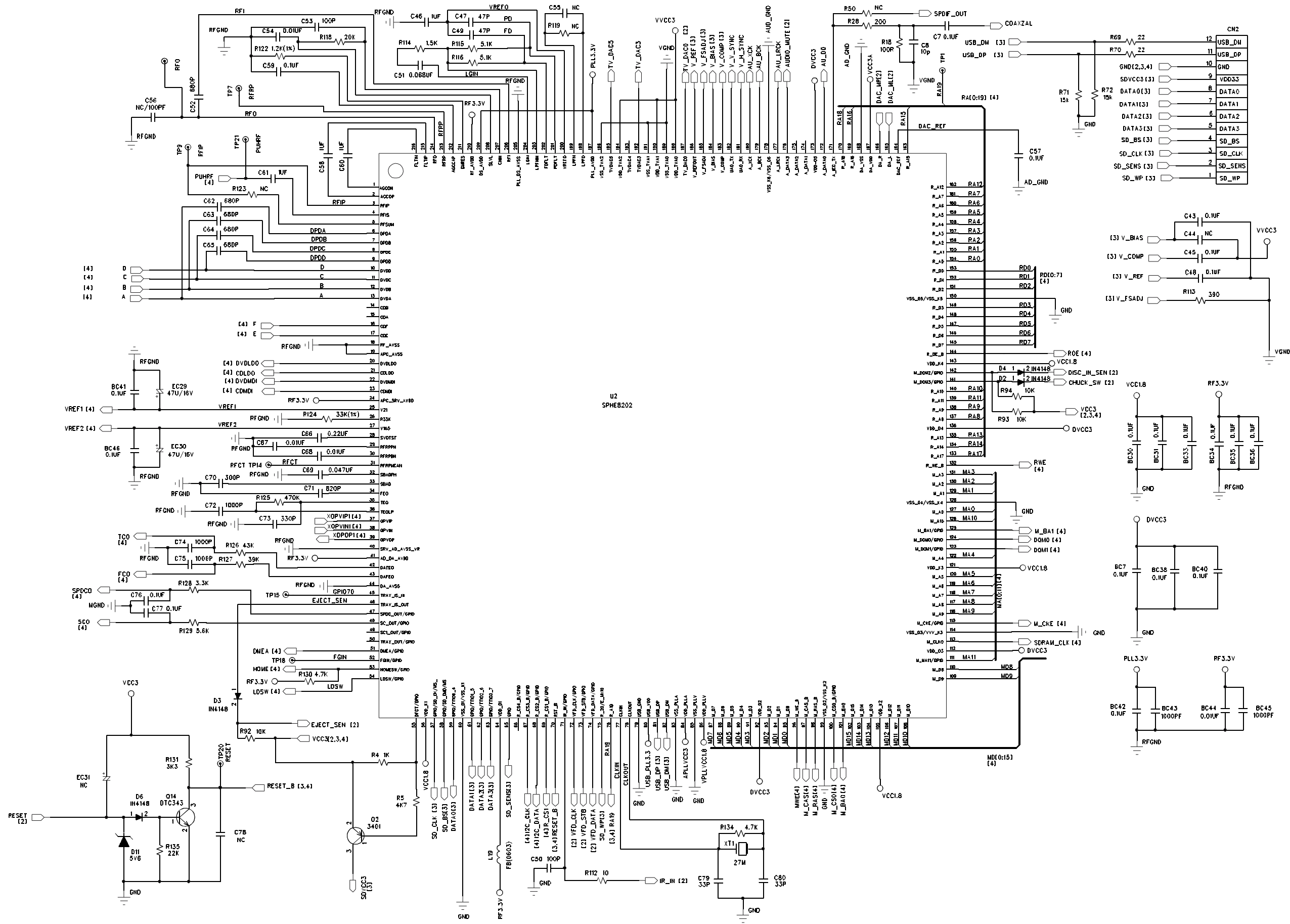
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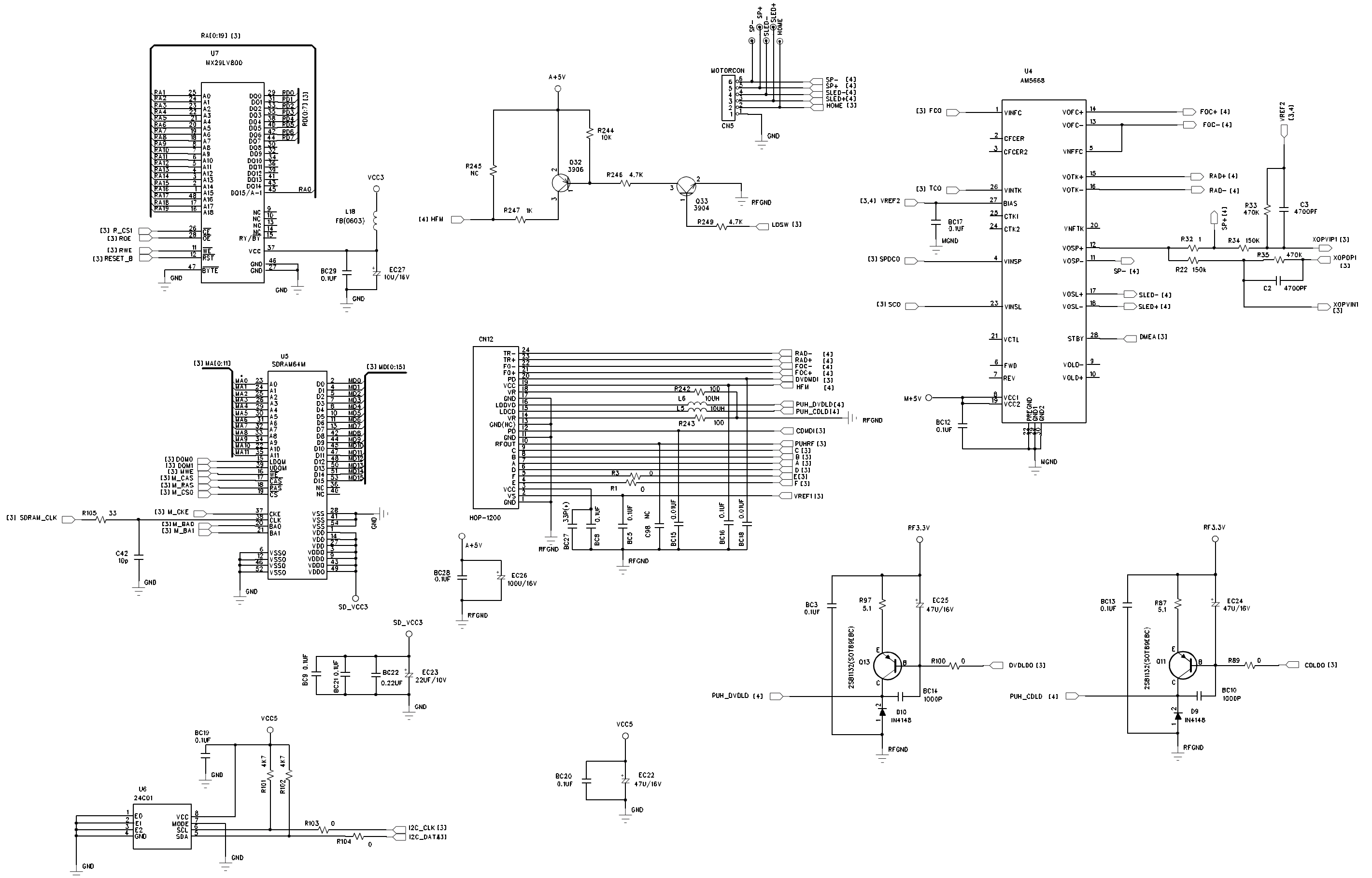
SERVO BOARD - CIRCUIT DIAGRAM



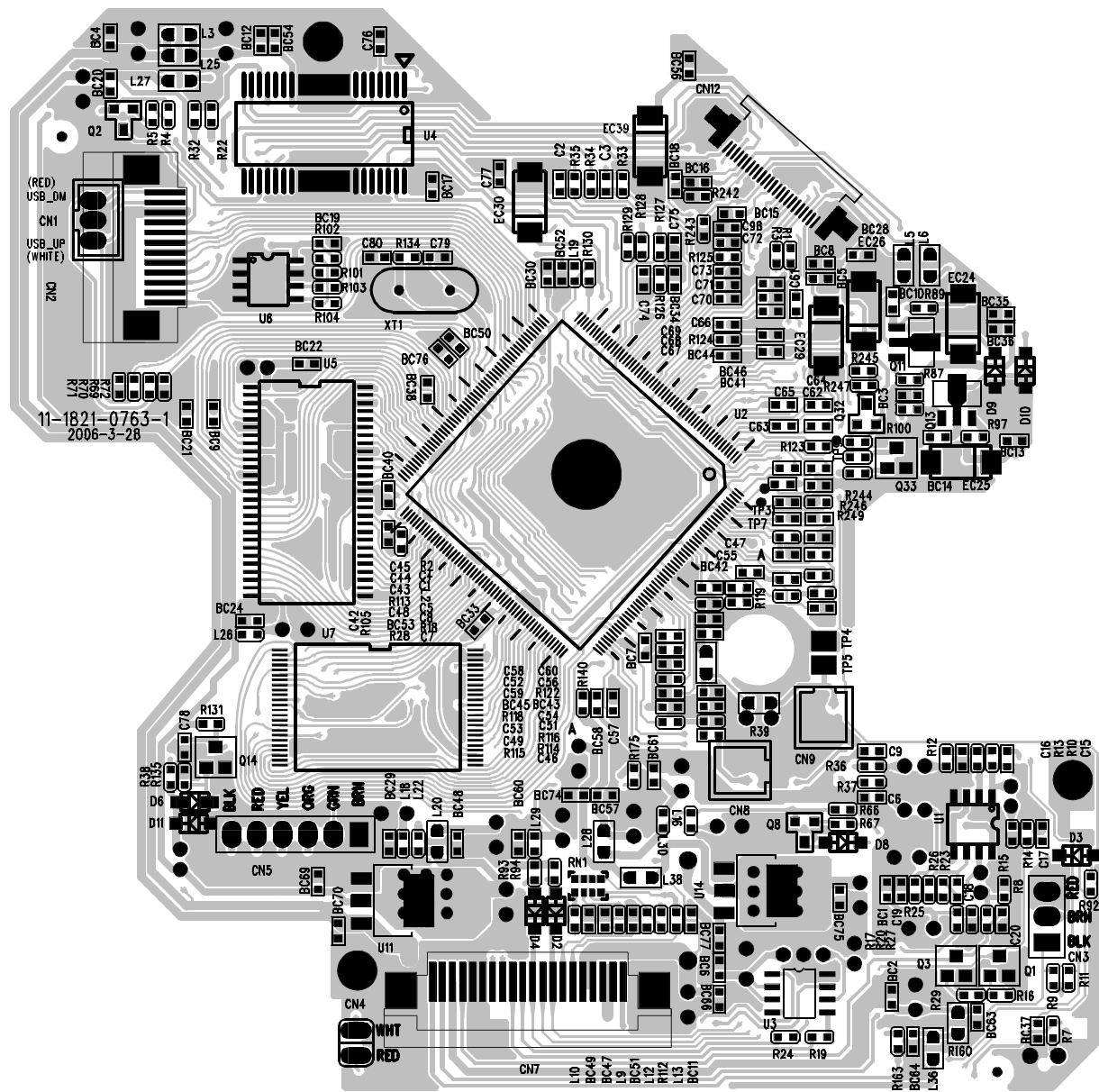
SERVO BOARD - CIRCUIT DIAGRAM



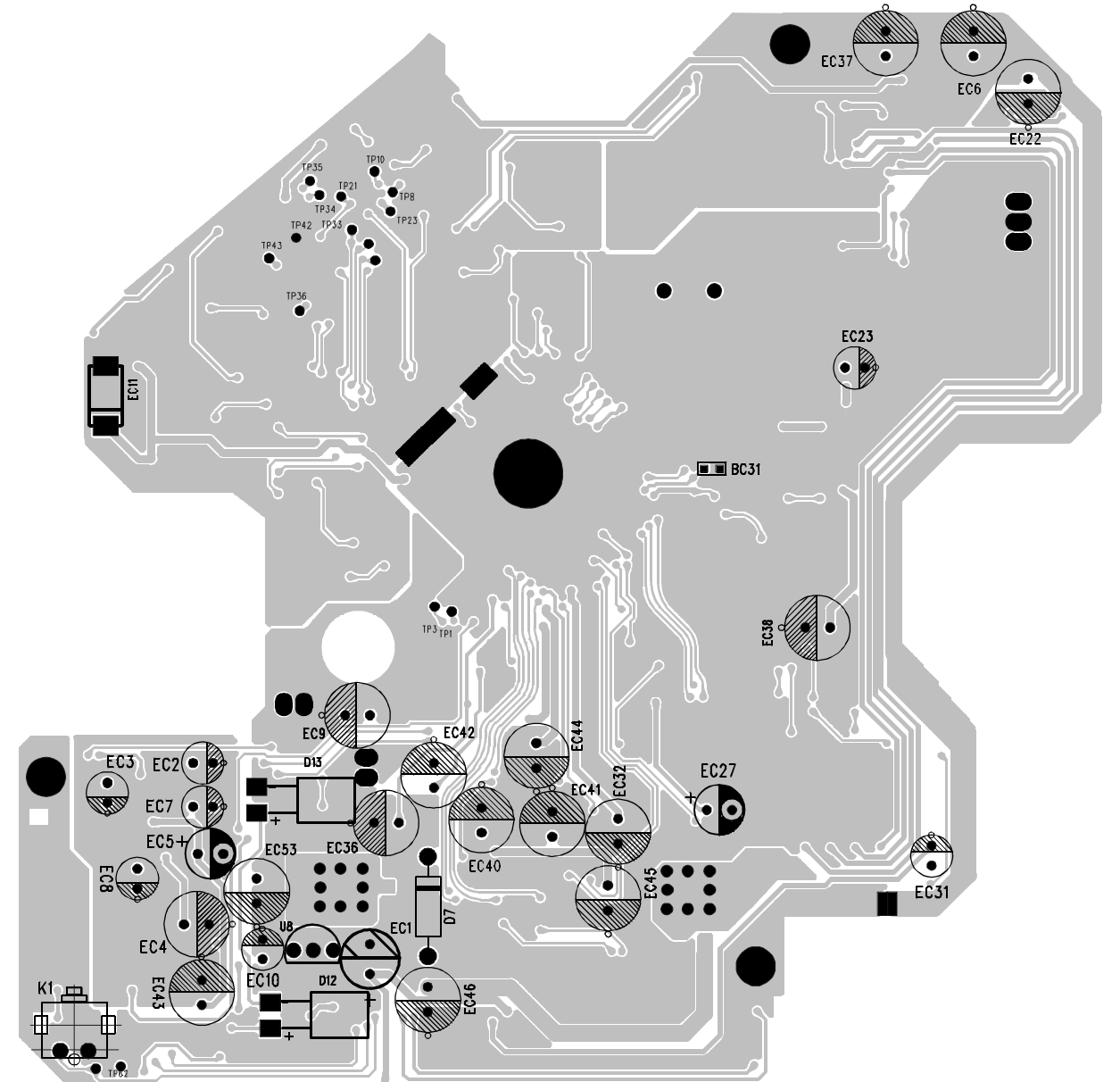
SERVO BOARD - CIRCUIT DIAGRAM



SERVO BOARD - LAYOUT DIAGRAM TOP VIEW



SERVO BOARD - LAYOUT DIAGRAM BOTTOM VIEW



ELECTRICAL PARTS LIST - SERVO BOARD

| Part NO. | Description | QTY | Location | Part NO. | Description | QTY | Location |
|-------------------|---|-----|-------------------------------------|--------------|---|-----|--|
| 83802DVD705ESB051 | DVD705E DIVX (DVD705E-58A) SB SMT Assm | 1 | | 121803000683 | CAP,0.068 μ F, \pm 10%,50V,X7R,0603 | 1 | C51 |
| 121604000000 | RES,0 Ω , \pm 5%,1/16W,0603 | 6 | R1 R3 R89 R100 R103 R104 | 121803000821 | CAP,0603,820pf, \pm 10%,16V,X7R | 1 | C71 |
| 121604000100 | RES,10 Ω , \pm 5%,1/16W,0603 | 2 | R112 R175 | 121845090107 | TAN.CAP,100 μ F, \pm 20%,6.3V,C | 6 | EC26 EC24 EC25 EC29 EC30 EC39 |
| 121604000101 | RES,100 Ω , \pm 5%,1/16W,0603 | 3 | R163 R242 R243 | 122000000179 | INDUCTOR,1.8 μ H, \pm 10%,50MA,0805 | 1 | L2 |
| 121604010102 | RES,1k Ω , \pm 1%,1/16W,0603 | 6 | R19 R24 R29 R16 R67 R247 | 122040000011 | CHIP BEAD,0603,1.6X0.8X0.8,800mA,100MHZ,0.6 | 10 | L9,L10,L12,L13,L18,L19,L22,L26 L29,L16 |
| 121604000103 | RES,10K Ω , \pm 5%,1/16W,0603 | 9 | R17 R20 R92 R93 R94 R244 R38 R9 R11 | 122040000061 | CHIP BEAD,120 Ω ,L2XW1.25XT1.25XA0.5,3A, | 3 | L20,L28,L38 |
| 121604000332 | RES,3K3 Ω , \pm 5%,1/16W,0603 | 4 | R13 R26 R128 R131 | | 100MHZ,DCR17 Ω | | |
| 121604010122 | RES,1K2 Ω , \pm 1%,1/16W,0603 | 1 | R122 | 122040000042 | CHIP BEAD,0805,2.0X1.2X0.9X0.5,200mA, | 5 | L5 L6 L25 L27 L36 |
| 121604000152 | RES,1K5 Ω , \pm 5%,1/16W,0603 | 1 | R114 | | 100MHZ,0.40 Ω | | |
| 121604000153 | RES,15K Ω , \pm 5%,1/16W,0603 | 4 | R71 R72 R10 R23 | 142245000015 | TR, DTC343TK, SOT-23 | 1 | Q14 |
| 121604000154 | RES,150K Ω , \pm 5%,1/16W,0603 | 2 | R22 R34 | 142206000020 | SW DIODE, 1N4148, 25mA,0.9V, 100V, MINI-MELF | 7 | D8 D9 D10 D2 D3 D4 D6 |
| 121604000010 | RES,1 Ω , \pm 5%,1/16W,0603 | 1 | R32 | 142251000001 | TR, 2N3904 (NPN) , SOT-23 | 1 | Q33 |
| 121604000393 | RES,39K Ω , \pm 5%,1/16W,0603 | 1 | R127 | 142245000003 | TR,2N3906(PNP),SOT-23 | 2 | Q8 Q32 |
| 121604000203 | RES,20K Ω , \pm 5%,1/16W,0603 | 1 | R118 | 122290000031 | TR,2SB1132,SOT-89 | 2 | Q11 Q13 |
| 121604000330 | RES,0603,33 Ω , \pm 5%,1/16W | 1 | R105 | 142400000541 | IC,AT24C02,SOP-8 | 1 | U6 |
| 121604000333 | RES,33K Ω , \pm 5%,1/16W,0603 | 1 | R124 | 142400000416 | IC,UTC4558,SOP-8,UTC | 1 | U1 |
| 121604000391 | RES,390 Ω , \pm 5%,1/16W,0603 | 1 | R113 | 142400000108 | IC,BA6287F,SOP-8,ROMH | 1 | U3 |
| 121604000433 | RES,43K Ω , \pm 5%,1/16W,0603 | 1 | R126 | 142400000504 | IC,UTC1117-3.3V,SOT-23,UTC | 1 | U11 |
| 121604000047 | RES,4 Ω 7, \pm 5%,1/16W,0603 | 2 | R87 R97 | 142400000505 | IC,UTC1117-1.8V,SOT-223,UTC | 1 | U14 |
| 121604000472 | RES,4K7 Ω , \pm 5%,1/16W,0603 | 11 | R66 R130 R134 R246 R249 R14 R27 | 142400000179 | IC,IS42S16400A,TSOPII-54,ISSI | 1 | U5 |
| | | | R101~R102 R36 R37 | 142410000024 | IC,AM5668S,HSOP28,AMTEK | 1 | U4 |
| 121604000474 | RES,470K Ω , \pm 5%,1/16W,0603 | 3 | R33 R125 R35 | 142410000087 | IC,SPHE8281D-216PIN,LQFP-216,SUNPLUS | 1 | U2 |
| 121604000512 | RES,5K1 Ω , \pm 5%,1/16W,0603 | 2 | R115 R116 | 123800000018 | 24PIN,0.5mm,FPC SOCKET SMT TYPE TOP | 1 | CN12 |
| 121604000750 | RES,75 Ω , \pm 5%,1/16W,0603 | 1 | R2 | | CONNECT TYPE | | |
| 121604000022 | RES,2 Ω 2, \pm 5%,1/16W,0603 | 2 | R140 L30 | 143010010355 | PCB,SB,DVD705E,1.2mm,107X109mm(SUNPLUS) | 1 | |
| 121606000330 | RES,33 Ω , \pm 5%,1/10W,0805 | 1 | R160 | 121604000223 | RES,22K Ω , \pm 5%,1/16W,0603 | 1 | R135 |
| 121618000103 | RES,10K Ω ,4, \pm 5%,1/16W,0603 | 1 | RN1 | 121604000562 | RES,5K6 Ω , \pm 5%,1/16W,0603 | 3 | R12 R25 R129 |
| 121803000100 | CAP,10pF, \pm 1%,50V,NPO,0603 | 2 | C1 C42 | 121803010272 | CAP,2700PF, \pm 5%,50V,X7R,0603 | 2 | C16 C19 |
| 121803000101 | CAP,100pF, \pm 5%,50V,NPO,0603 | 3 | C4 C5 C53 | 121604000473 | RES,47K Ω , \pm 5%,1/16W,0603 | 1 | R7 |
| 121803000102 | CAP,1nF, \pm 10%,16V,X7R,0603 | 9 | BC43 BC45 C72 C74 C75 C17 C20 | 121606000000 | RES,0 Ω , \pm 5%,1/10W,0805 | 1 | R39 |
| | | | BC14 BC10 | 142224000023 | ZENER DIODE, 5V6, MINI MELF | 1 | D11 |
| 121803000103 | CAP,0.01 μ F, \pm 10%,50V,X7R,0603 | 6 | C54 BC44 BC18 BC15 C67 C68 | 121803000225 | CAP,2.2 μ F,+80%,-20%,16V,X7R,0603 | 2 | BC38 BC22 |
| 121803020104 | CAP,0.1 μ F, \pm 10%,25V,X7R,0603 | 53 | BC1 BC2 BC3 BC4 BC5 BC7 BC8 BC13 | 144840000018 | DECD,DL-C28D1(SHINWA) | 1 | |
| | | | BC52 BC16 BC17 BC19 BC20 BC21 | 143820000147 | FFC,12PIN,1.00mm,160mm, | 1 | EC46 |
| | | | BC6 BC9 BC24 BC28 BC29 BC30 BC34 | 141827050227 | CAP,220 μ F, \pm 20%,6.3X7,10V,-55 $^{\circ}$ C--105 $^{\circ}$ C | 1 | EC46 |
| | | | BC35 BC36 BC37 BC40 BC41 BC42 | 141830020106 | E.CAP,10 μ F, \pm 20%,4X5,16V,85 $^{\circ}$ C | 4 | EC2 EC3 EC7 EC8 |
| | | | BC46 BC48 BC50 BC53 BC54 BC56 | 121830020107 | E.CAP,100 μ F, \pm 20%,6.3X5,16V,105 $^{\circ}$ C | 14 | EC1 EC4 EC6 EC32 EC36 EC37 EC40 |
| | | | BC57 BC58 BC60 BC61 BC63 BC64 | | | | EC41 EC42 EC43 EC44 EC53 EC45 EC22 |
| | | | BC66 BC69 BC70 BC74 BC75 BC76 | 141830040476 | E.CAP,47 μ F, \pm 20%,5X5,10V,105 $^{\circ}$ C | 3 | EC38 EC27 EC5 |
| | | | BC77 C43 C45 C48 C57 C76 C77 C59 | 143405000004 | INFRARED RECEIVER,IR928-6C | 2 | D12 D13 |
| 121800020105 | CAP,1 μ F, \pm 10%,16V,X7R,0603 | 5 | C46 C58 C60 C61 BC33 | 142820000010 | CRYSTAL,27.000MHZ, \pm 20ppm,-30 $^{\circ}$ C~+80 $^{\circ}$ C,CL=18pF, | 1 | XT1 |
| 121803010221 | CAP,220pF, \pm 5%,25V,NPO,0603 | 2 | C15 C18 | | HC-49/US | | |
| 121803000152 | CAP,1500pF, \pm 10%,50V,X7R,0603 | 2 | C6, C9 | 143210000004 | DETECT SW,SW110 | 1 | K1 |
| 121803010224 | CAP,0.22 μ F, \pm 10%,25V,X7R,0603 | 1 | C66 | 142400000133 | IC,CJ78L06,TO-92,CJ(V0=6V IOM=0.1A) | 1 | U8 |
| 121803010301 | CAP,300pF, \pm 5%,50V,NPO,0603 | 1 | C70 | 123830000117 | CMV700,2PIN,PI=2.0mm 135mm(SOCKET PIN) | 1 | CN9 |
| 121803000330 | CAP,33pF, \pm 5%,50V,NPO,0603 | 6 | BC47 BC51 C79 C80 BC49 BC11 | 121830000226 | E.CAP,22 μ F, \pm 20%,4X5,16V,105 $^{\circ}$ C | 2 | EC10 EC23 |
| 121803010331 | CAP,0603,330p,16V, \pm 5%,NPO | 1 | C73 | 143820000149 | FFC,20PIN,1.0mm,120mm,E | 1 | CN7 |
| 121803000470 | CAP,47pF, \pm 5%,16V,NPO,0603 | 2 | C47 C49 | 142206000004 | REC DIODE, 1N4001, 1A, 1V, 50V, DO-41 | 1 | D7 |
| 121803000472 | CAP,4700pF, \pm 10%,50V,X7R,0603 | 2 | C2 C3 | | | | |
| 121803000473 | CAP,0.047 μ F, \pm 10%,50V,X7R,0603 | 1 | C69 | | | | |
| 121803000681 | CAP,680pF, \pm 10%,16V,X7R,0603 | 5 | C62 C63 C64 C65 C52 | | | | |

MAIN BOARD

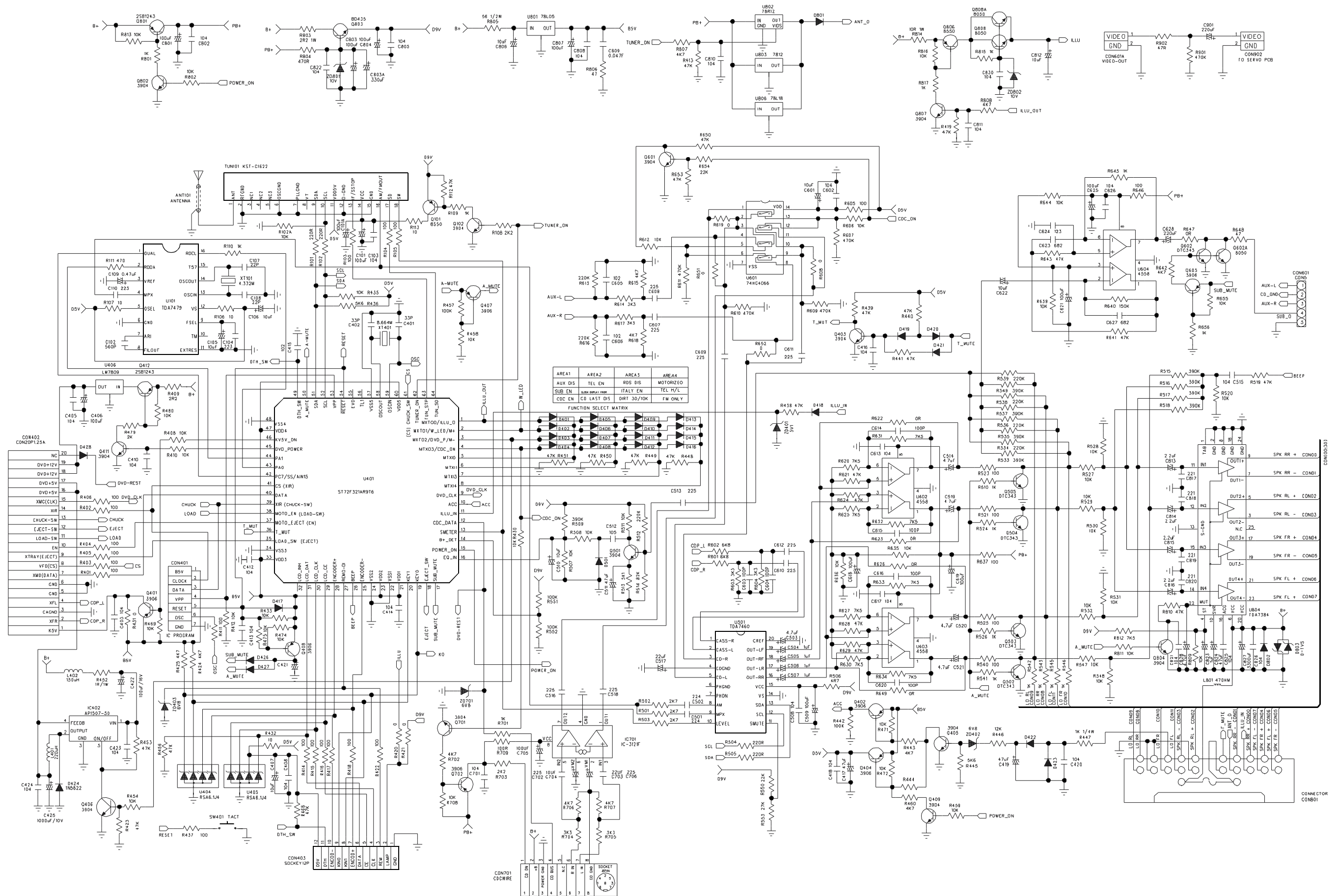
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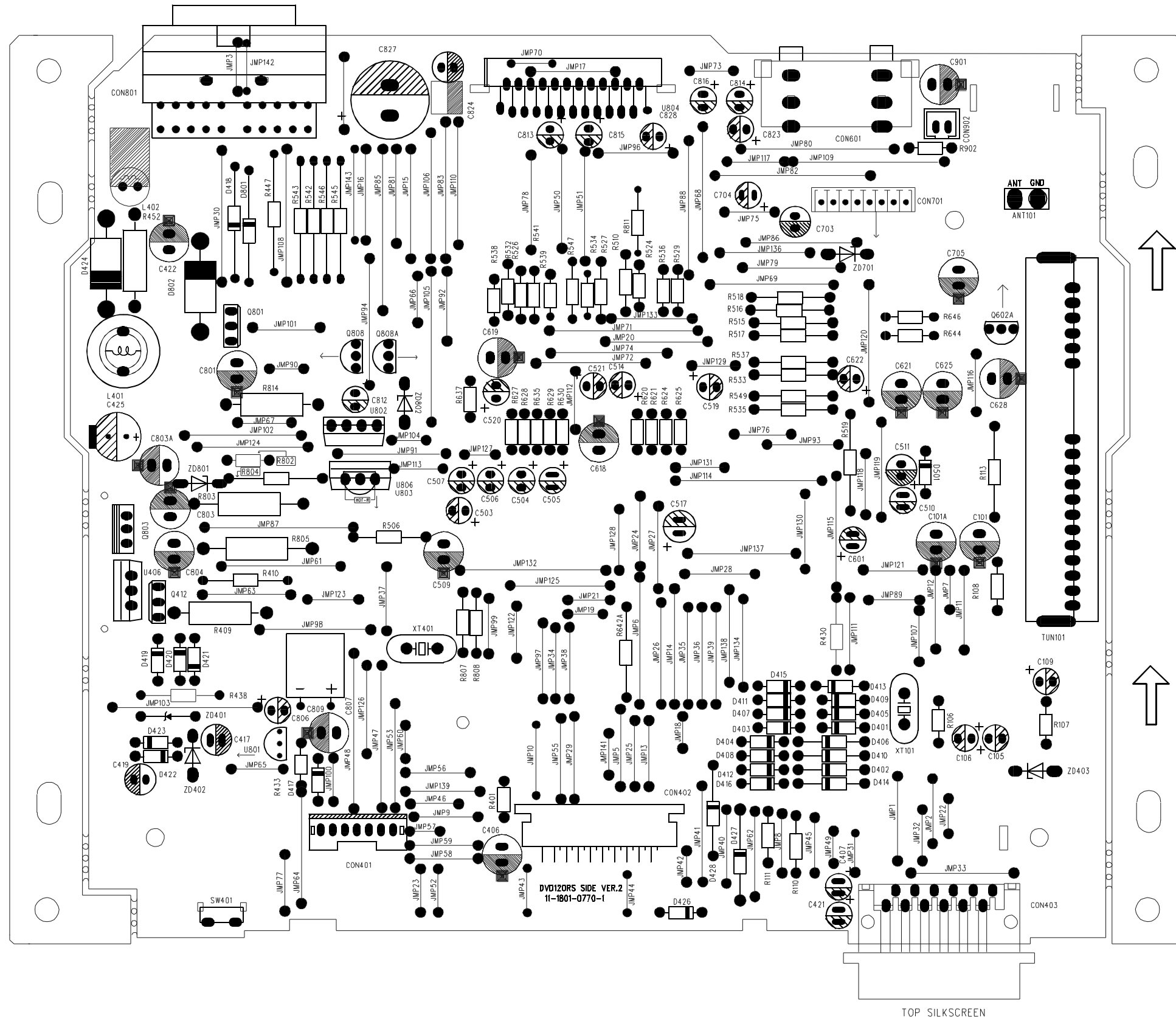
CIRCUIT DIAGRAM

7-2

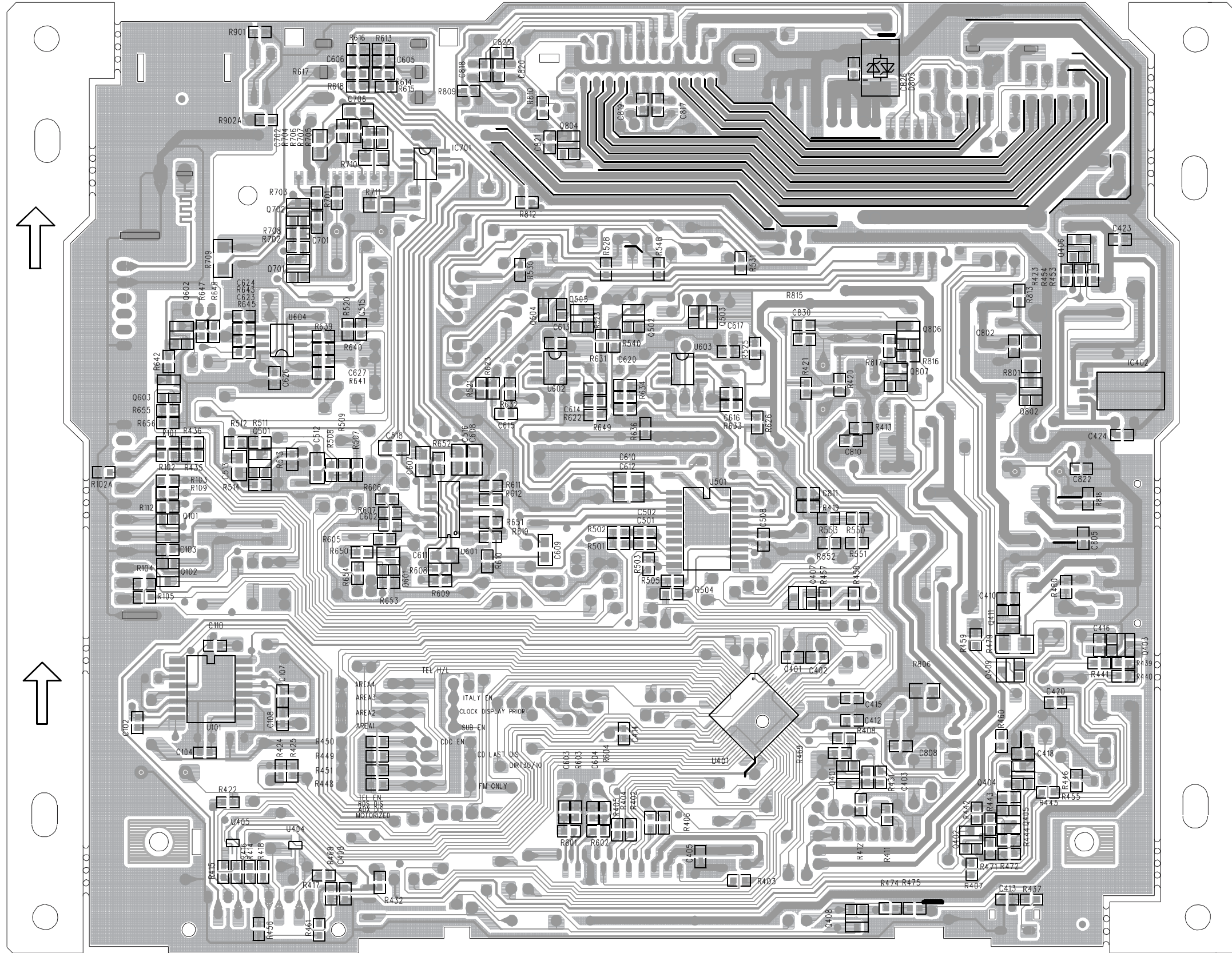
7-2



PCB LAYOUT TOP VIEW



PCB LAYOUT BOTTOM VIEW



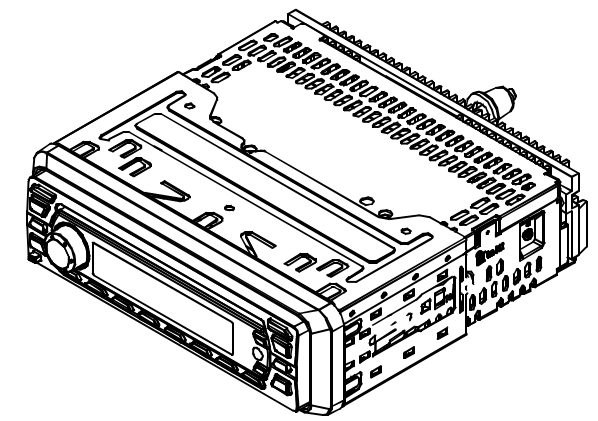
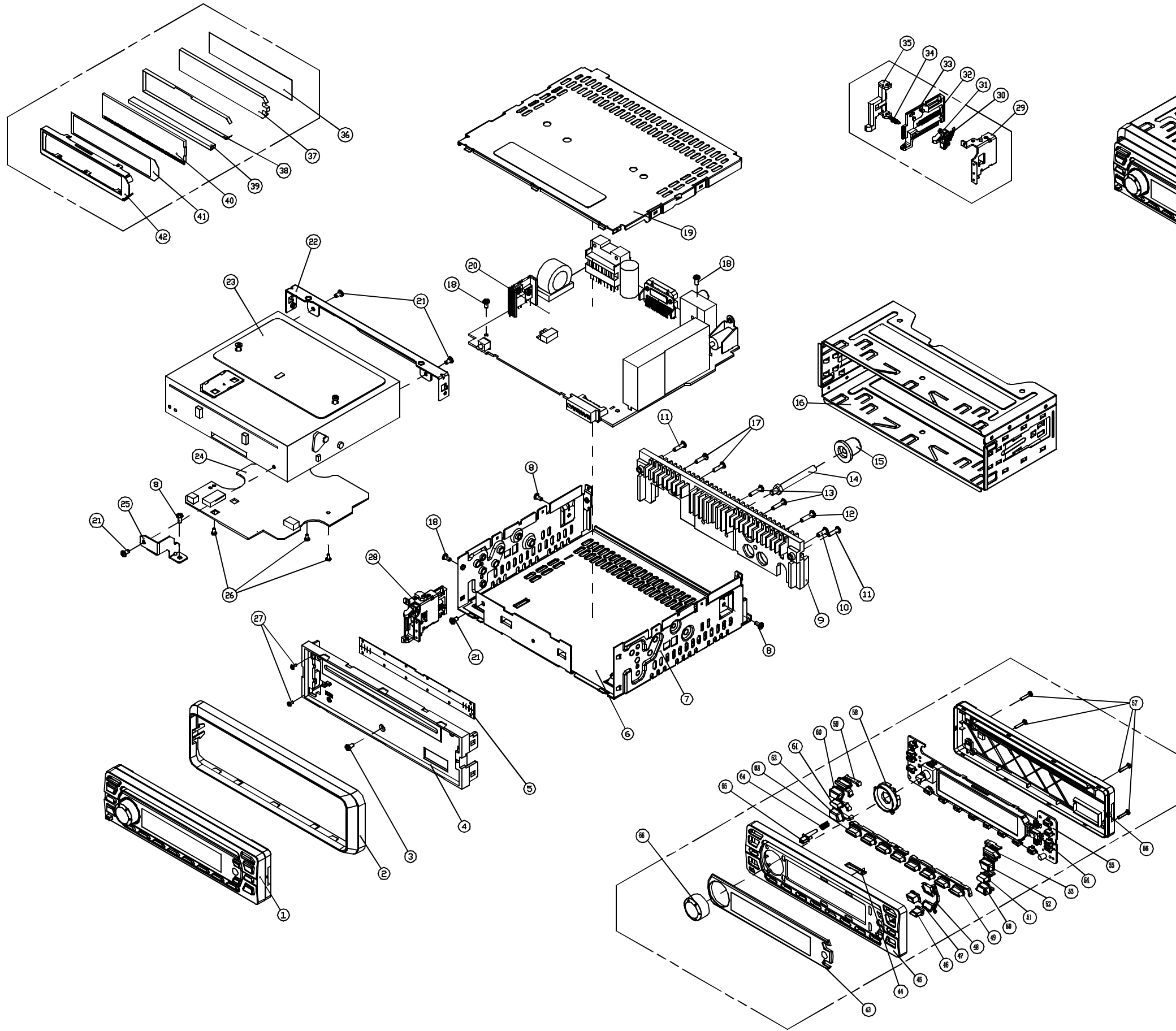
ELECTRICAL PARTS LIST - MAIN BOARD

| Part NO. | Description | QTY | Location | Part NO. | Description | QTY | Location |
|-------------------|---|-----|--|-------------------|--|-----|---|
| 83802DVD122EMB021 | 4X4V ESP FM/OIRT 4VCUBAUXIN MB SMT Assm | 1 | | 121803010201 | CAP,200pF,±5%,25V,NPO,0603 | 4 | C817,C818,C819,C820 |
| 142400000386 | IC,TDA7460N,SO 20,ST | 1 | U501 | 142290000003 | ESD DIODE. PG05GBUSV, 24A. 200W, 5G | 2 | U404,U405 |
| 121604000102 | RES,1KΩ,±5%,1/16W,0603 | 2 | R109,R645 | 121604000154 | RES,150KΩ,±5%,1/16W,0603 | 1 | R640 |
| 121604000101 | RES,100Ω,±5%,1/16W,0603 | 21 | R103,R104,R105,R411,R402,R403,R404, R405,R406,R437,R414,R415,R416,R417, R418,R422,R521,R523,R525,R540,R647 | 121604000332 | RES,3K3Ω,±5%,1/16W,0603 | 2 | R614,R617 |
| 121604000473 | RES,47KΩ,±5%,1/16W,0603 | 16 | R112,R453,R423,R448,R449,R450,R451, R810,R643,R641,R468,R631,R633,R634, R632,R456 | 83801DVD122EMB021 | 4X4V ESP FM/OIRT 4VCUBAUXIN MB A/I Assm | 1 | |
| 121803000104 | CAP,0.1μF,+80%,-20%,50V,Y5V,0603 | 25 | C103,C412,C413,C414,C415,C410,C405, C403,C423,C424,C408,C802,C822,C805, C808,C508,C420,C418,C617,C613,C821, C825,C826,C515,C626 | 143000010085 | PCB,MB,DVD120RS,94V0,1.6mm,194.3X150.1mm | 1 | |
| 142245000024 | TR, KTC8550S (PNP) , SOT-23 | 1 | Q101 | 142203000003 | SW DIODE, 1N4148, DO-35 | 11 | D417,D426,D427,D501,D422,D423,D403, D405,D428,D416,D410 |
| 142251000001 | TR, 2N3904 (NPN) , SOT-23 | 8 | Q102,Q411,Q406,Q802,Q501,Q405,Q804, Q409 | 121640000222 | RCF,2K2Ω,±5%,1/8W | 1 | R108 |
| 121803000330 | CAP,33pF,±5%,50V,NPO,0603 | 2 | C401,C402 | 121640000100 | RCF,10Ω,±5%,1/8W | 1 | R113 |
| 142245000003 | TR,2N3906(PNP),SOT-23 | 6 | Q408,Q401,Q404,Q402,Q407,Q603 | 121640000102 | RCF,1KΩ,±5%,1/8W | 9 | R447,R510,R524,R526,R541,R542,R543, R545,R546 |
| 121604000103 | RES,10KΩ,±5%,1/16W,0603 | 25 | R412,R475,R480,R408,R469,R454,R813, R507,R508,R511,R471,R472,R636,R528, R530,R531,R548,R809,R520,R639,R458, R656,R459,R435,R436 | 121640000103 | RCF,10KΩ,±5%,1/8W | 6 | R433,R410,R802 R635,R811,R644 |
| 121608000102 | RES,1KΩ,±5%,1/4W,1206 | 2 | R479,R801 | 121650000022 | RCF,2Ω2,±5%,2W | 3 | R409,R803,JMP91 |
| 142400000080 | IC,AP1507-5V,TO252-5L,ANACHIP | 1 | IC402 | 121648000010 | RCF,1Ω,±5%,1W | 1 | R452 |
| 121604000100 | RES,10Ω,±5%,1/16W,0603 | 1 | R432 | 121646000560 | RCF,56Ω,±5%,1/2W | 1 | R805 |
| 121604000000 | RES,0Ω,±5%,1/16W,0603 | 5 | R421,R651,R652,R455,R407 | 121640000471 | RCF,470Ω,±5%,1/8W | 1 | R804 |
| 121604000474 | RES,470KΩ,±5%,1/16W,0603 | 1 | R901 | 121640000047 | RCF,4Ω7,±5%,1/8W | 1 | R506 |
| 121604000472 | RES,4K7Ω,±5%,1/16W,0603 | 5 | R443,R424,R425,R642,R460 | 121640000752 | RCF,7.5KΩ,±5%,1/8W | 4 | R620,R625,R627,R630 |
| 121803000101 | CAP,100pF,±5%,50V,NPO,0603 | 6 | C603,C604,C614,C615,C616,C620 | 121640000473 | RCF,47KΩ,±5%,1/8W | 10 | R621,R624,R628,R629,R519 R527,R529, R532,R547,ZD401 |
| 121806000225 | CAP,2.2μF,+80%,-20%,16V,X7R,0805 | 5 | C610,C612,C607,C608,C513 | 121640000101 | RCF,100Ω,±5%,1/8W | 3 | R637,R646,R401 |
| 121604000224 | RES,220KΩ,±5%,1/16W,0603 | 3 | R613,R616,R512 | 121640000224 | RCF,220KΩ,±5%,1/8W | 4 | R534,R536,R538,R539 |
| 121803000102 | CAP,1nF,±10%,16V,X7R,0603 | 2 | C605,C606 | 121640000394 | RCF,390KΩ,±5%,1/8W | 8 | R515,R516,R517,R518,R533,R535,R537, R549 |
| 141604000682 | RES,6.8KΩ,±5%,1/16W,0603 | 4 | R615,R618,R601,R602 | 142206000004 | REC DIODE, 1N4001, 1A, 1V, 50V, DO-41 | 1 | D801 |
| 121606000000 | RES,0Ω,±5%,1/10W,0805 | 1 | C609 | 142224000088 | ZENER DIODE,6.8V,1/2W | 2 | ZD402,ZD403 |
| 121604000223 | RES,22KΩ,±5%,1/16W,0603 | 1 | R550 | 142224000001 | ZENER DIODE, 10V, 1/2W, DO-35 | 1 | ZD801 |
| 121604000273 | RES,27KΩ,±5%,1/16W,0603 | 1 | R553 | 113850000036 | φ 0.5mm,5.0mm | 5 | JMP42,JMP57,JMP60, JMP127, JMP49 |
| 121604000272 | RES,2K7Ω,±5%,1/16W,0603 | 3 | R501,R502,R503 | 113850000037 | φ 0.5mm,5.5mm | 4 | JMP 18, JMP22, JMP87, JMP90 |
| 121806000224 | CAP,0.22μF,+80%,-20%,16v,Y5V,0805 | 2 | C501,C502 | 113850000039 | φ 0.5mm,6mm | 2 | JMP97, JMP104 |
| 121604000394 | RES,390KΩ,±5%,1/16W,0603 | 1 | R509 | 113850000038 | φ 0.5mm,6.5mm | 4 | JMP7, JMP31, JMP43, JMP44 |
| 121806000105 | CAP,0805,105,50V,Y5V,+80%-20% | 1 | C512 | 113850000041 | φ 0.5mm,7mm | 10 | JMP 21, JMP23, JMP37, JMP52, JMP70, JMP73, JMP 100, JMP129, JMP141, R902 |
| 121604000512 | RES,5K1Ω,±5%,1/16W,0603 | 1 | R513 | 113850000040 | φ 0.5mm,7.5mm | 3 | JMP3, JMP9, JMP142 |
| 121604000823 | RES,82KΩ,±5%,1/16W,0603 | 1 | R514 | 113850000043 | φ 0.5mm,8mm | 4 | JMP66, JMP75, JMP113, JMP131 |
| 121604000123 | RES,12KΩ,±5%,1/16W,0603 | 1 | R446 | 113850000042 | φ 0.5mm,8.5mm | 3 | JMP65, JMP122, JMP123 |
| 121604000562 | RES,5K6Ω,±5%,1/16W,0603 | 3 | R445,R603,R604 | 113850000045 | φ 0.5mm,9mm | 9 | JMP28, JMP32, JMP45, JMP56, JMP67, JMP76, JMP77, JMP99, JMP118 |
| 121604000104 | RES,100KΩ,±5%,1/16W,0603 | 6 | R442,R551,R552,R474,R457,R655 | 113850000044 | φ 0.5mm,9.5mm | 3 | JMP 112, JMP116, JMP117 |
| 142400000416 | IC,UTC4558,SOP-8,UTC | 3 | U602,U603,U604 | 113850000002 | φ 0.5mm,10mm | 1 | JMP 128 |
| 121604000752 | RES,7K5Ω,±5%,1/16W,0603 | 1 | R812 | 113850000004 | φ 0.5mm,11mm | 6 | JMP 2, JMP 13, JMP25, JMP46, JMP101, JMP40 |
| 142245000015 | TR, DTC343TK, SOT-23 | 4 | Q502,Q503,Q504,Q505 | 113850000003 | φ 0.5mm,11.5mm | 9 | JMP 10, JMP24, JMP34, JMP38, JMP58, JMP59, JMP92, JMP96, JMP130 |
| 121604000470 | RES,47Ω,±5%,1/16W,0603 | 1 | R648 | 113850000006 | φ 0.5mm,12mm | 1 | JMP93 |
| 121803000682 | CAP,6800pF,±10%,50V,X7R,0603 | 2 | C623,C627 | 113850000008 | φ 0.5mm,13mm | 5 | JMP4, JMP12, JMP29, JMP55, JMP5 |
| 121803000123 | CAP,0.012μF,±20%,50V,X7R,0603 | 1 | C624 | 113850000007 | φ 0.5mm,13.5mm | 1 | JMP27 |
| | | | | 113850000010 | φ 0.5mm,14mm | 6 | JMP 1, JMP 16, JMP17, JMP62, JMP63, JMP143 |
| | | | | 113850000009 | φ 0.5mm,14.5mm | 3 | JMP33, JMP126, JMP134 |
| | | | | 113850000012 | φ 0.5mm,15mm | 5 | JMP41, JMP133, JMP136, JMP138, R642A |
| | | | | 113850000014 | φ 0.5mm,16mm | 6 | JMP35, JMP36, JMP53, JMP72, JMP79, JMP125 |

ELECTRICAL PARTS LIST - MAIN BOARD

| Part NO. | Description | QTY | Location | Part NO. | Description | QTY | Location |
|--------------|---|-----|--|--------------|----------------------------------|-----|--------------------------|
| 113850000013 | φ 0.5mm,16.5mm | 2 | JMP50,JMP78 | 121830000225 | E.CAP,2.2μ F,±20%,4X5,50V,105℃ | 4 | C813,C814,C815,C816 |
| 113850000016 | φ 0.5mm,17mm | 3 | JMP15,JMP20,JMP26 | 141830000105 | E.CAP,1μ F,±20%,4X5,50V,105℃ | 5 | C504,C505,C506,C507,C823 |
| 113850000018 | φ 0.5mm,18mm | 2 | JMP51,JMP98 | 121842020108 | E.CAP,1000μ F,±20%,8X16,10V,105℃ | 1 | C425 |
| 113850000017 | φ 0.5mm,18.5mm | 1 | JMP64 | 142248000007 | TR, S8050 (NPN) , TO-92 | 1 | Q602A |
| 113850000020 | φ 0.5mm,19mm | 2 | JMP14,JMP74 | | | | |
| 113850000022 | φ 0.5mm,20mm | 2 | JMP106,JMP110 | | | | |
| 113850000021 | φ 0.5mm,20.5mm | 1 | JMP69 | | | | |
| 113850000023 | φ 0.5mm,21mm | 3 | JMP6,JMP71,JMP94 | | | | |
| 113850000025 | φ 0.5mm,22mm | 7 | JMP47,JMP68,JMP88,JMP103,JMP124, JMP132,JMP108 | | | | |
| 113850000026 | φ 0.5mm,23mm | 1 | JMP61 | | | | |
| 113850000028 | φ 0.5mm,24mm | 3 | JMP48,JMP102,JMP114 | | | | |
| 113850000029 | φ 0.5mm,25mm | 2 | JMP105,JMP109 | | | | |
| 113850000030 | φ 0.5mm,26mm | 1 | JMP85 | | | | |
| 121604000221 | RES,220Ω,±5%,1/16W,0603 | 4 | R101,R102,R504,R505 | | | | |
| 121830020107 | E.CAP,100μ F,±20%,6.3X5,16V,105℃ | 14 | C101,C101A,C406,C422,C801,C803,C804, C807,C509,C618,C619,C621,C625,C628 | | | | |
| 142820000026 | CRYSTAL,8.664MHz,±30ppm,-20℃~+70℃, CL=30pF,HC-49/US | 1 | XT401 | | | | |
| 141090000043 | ANTTENA JACK | 1 | ANT101 | | | | |
| 144815000022 | TUNER,KST-C6102LVD-100,FM/OIRT/AM | 1 | TUN101 | | | | |
| 141830020106 | E.CAP,10μ F,±20%,4X5,16V,85℃ | 4 | C407,C806,C510,C622 | | | | |
| 123000010010 | PCB,CB,CM206,94-V0,36×30×1.6mm | 1 | | | | | |
| 122015000014 | CHOKO COIL,470UH,1A,±30%,26mm(D)X 10mm(L)X14mm(H)(CM206) | 1 | | | | | |
| 141670000109 | GBX050,PTC(RILAIDA) | 1 | U806 (connected to IN and OUT ports of IC, nondirectional) | | | | |
| 142257000001 | TR,2SB1243TV2Q(PNP),ATV | 2 | Q412,Q801 | | | | |
| 143210000037 | TACT SW,TS-40-BS-2 | 1 | SW401 | | | | |
| 143810000048 | 4PIN,P=15MM,AV OUTLET ASS"Y,DVD120RS | 1 | CON601 | | | | |
| 143800000005 | 12PIN,1.6mm,CONNECTOR FEMALE DOUBLE TOUCH TYPE | 1 | CON403 | | | | |
| 123800000023 | 2PIN,SOCKET 2.0mm DIP 180° | 1 | CON902 | | | | |
| 123830010086 | CM700,20PIN,PWR/SPK EST-KNT-20-04 | 1 | CON801 | | | | |
| 143825000190 | CONNECTOR,20PIN,1.0mm, CONNECTOR FZC6A-020 | 1 | CON402 | | | | |
| 142400000196 | IC,L7809,TO-220,ST/KEC | 1 | U406 | | | | |
| 124800000025 | FUSE,ZH270,15A,SLOW FUSE TYPE | 1 | | | | | |
| 122005000019 | STAND INDUCTOR,150μ H,±10%,Φ0.3 | 1 | L402 | | | | |
| 122005000012 | STAND INDUCTOR DR8×10,220UH,±10%, 500mA,13X10mm(H×D) | 1 | L401 | | | | |
| 121836010227 | E.CAP,220μ F,±20%,5X12,10V,105℃ | 2 | C901,C803A | | | | |
| 142400000218 | IC,LM2950-5V,TO-92,HTC | 1 | U801 | | | | |
| 142400010379 | IC,TDA7384,FLEXIWATT25,ST | 1 | U804 | | | | |
| 142206000008 | REC DIODE, 1N5822, 3A, 0.9V, 40V, DO-27 | 1 | D424 | | | | |
| 142206000006 | REC DIODE, 1N5401, 3A, 1V, 100V, DO-27 | 1 | D802 | | | | |
| 142254000018 | TR,BD435,TO-126C(CJ) | 1 | Q803 | | | | |
| 121830000226 | E.CAP,22μ F,±20%,4X5,16V,105℃ | 1 | C517 | | | | |
| 121842030338 | E.CAP,3300μ F,±20%,12.5X25,16V,85° | 1 | C827 | | | | |
| 141830040476 | E.CAP,47μ F,±20%,5X5,10V,105℃ | 4 | C511,C419,C417,C824 | | | | |
| 141830000475 | E.CAP,4.7μ F,±20%,4X5,16V,105℃ | 6 | C503,C514,C519,C520,C521,C828 | | | | |

EXPLODED VIEW - MAIN UNIT



MECHANICAL PARTS LIST

| Item | Assembly Part NO | Description | QTY |
|------|-------------------|--|-----|
| 1 | 83803DVD125EKB010 | PANELASSEMBLY | 1 |
| 2 | 141298000034 | CMV100,RIM,ABS(BLACK) | 1 |
| 3 | 121040000054 | SCREW,BM,BLACK Zinc,M2.6X5 | 1 |
| 4 | 141240060061 | CMV100,CABINET,ABS | 1 |
| 5 | 121450030026 | CM110,DUST PROOF,CLOTH | 1 |
| 6 | 121460000172 | CM110/CMV100,INSULATOR,PC,0.25mm | 1 |
| 7 | 141000020368 | CMV100,FRAME(01)NEW,SECC,T1.0 | 1 |
| 8 | 121040000084 | SCREW,BTS,White Ni,M2.6X6 | 3 |
| 9 | 141010000070 | DVD120RS,MAIN HEATSINK,ADC12 | 1 |
| 10 | 121040000088 | SCREW,BTS,White Ni,M3.0X8 | 1 |
| 11 | 121040000075 | SCREW,BTS,White Ni,M2.6X10 | 2 |
| 12 | 121040000066 | SCREW,BTP,White Ni,M3.0X12 | 1 |
| 13 | 121040000068 | SCREW,BTS,White Zinc,M2.6X12 | 2 |
| 14 | 121050000003 | CMV100,POLE | 1 |
| 15 | 121410000026 | CMV100,RUBBER | 1 |
| 16 | 141000040316 | CM216,SHORTSHEET,SECC,T0.5 | 1 |
| 17 | 121040000159 | SCREW,PBT,White Ni,M2.6X10 | 2 |
| 18 | 121040000083 | SCREW,BTS,White Ni,M2.6X5 | 3 |
| 19 | 141000000375 | CMV100, TOP COVER,SECC,T0.6 | 1 |
| 20 | 83803DVD122EMB021 | PCB MAIN BOARD ASSEMBLY | 1 |
| 21 | 121040000060 | SCREW,BTB,White Ni,M2.6X5 | 4 |
| 22 | 121000010366 | CMV100,DECK-BRACKET-BACK(01),SECC,T1.0 | 1 |
| 23 | 144840000018 | DECD,DL-C28D1(SHINWA) | 1 |
| 24 | 83803DVD705ESB05 | DVD705E SBASSEMBLY | 1 |
| 25 | 1141000010362 | CMV100,CMV100,BRACKETDECKFRONTOFCLC01(CLC01),SECC,T1.0 | 1 |
| 26 | 121040000186 | SCREW,PTS,Color Zinc,M2.0X4 | 3 |
| 27 | 121040000211 | SCREW,TTS, BLACK Zinc,M1.6X4 | 2 |
| 28 | 84803CMV100LOC001 | KEY LOCK | 1 |
| 29 | 121000010364 | CMV100,BRACKETLOCK,SECC,T1.0 | 1 |
| 30 | 121035010146 | CMV100,SPRINGLOCKTOP,Φ0.35 | 1 |
| 31 | 141290020202 | CM110,LOCKTOP,POM | 1 |
| 32 | 121035000143 | CMV100,SPRING LOCK,Φ0.30 | 1 |
| 33 | 141290020201 | CM110,LOCKBOTTOM,POM | 1 |
| 34 | 121035010145 | CMV100,SPRING LOCK BOTTOM,Φ0.3mm | 1 |
| 35 | 141290030200 | CM110,LOCK,POM | 1 |
| 36 | 121290000608 | DVD125,REFLECTOR SHEET,MYLAR(0.25mm SHITE) | 1 |
| 37 | 141290000607 | DVD125,REFLECTOR-LCD,PMMA | 1 |
| 38 | 121490000136 | DVD125,TIN FOIL,POLYESTER FILM,0.5mm | 1 |
| 39 | 121490000137 | DVD125,ZEBRA STRIP,(SILICON RUBBER) | 1 |
| 40 | 143400010004 | DVD120,NEGATIVE COLOR(SA) | 1 |
| 41 | 121228000736 | DVD120E-58A,LENS,PMMA,BLACK(PROLOGY) | 1 |
| 42 | 121290000610 | DVD125,FILTER SHEET,PC(SEMITRANSPARENT) | 1 |
| 43 | 141228000635 | LENS,DVD125,LENS,Pmma(W/ORDSPROLOGY) | 1 |
| 44 | 141290000603 | DVD125,LIGHT GUIDE,PC | 1 |
| 45 | 141218010130 | DVD125,PANELFRONTBLACK,ABS777D(W/ORDSPROLOGY) | 1 |
| 46 | 141230000569 | CM125,KNOB-MON,PC | 1 |
| 47 | 141230000568 | CM125,KNOB-LOC,PC | 1 |
| 48 | 141292000001 | DVD125,KNOB BRACKET,PC | 1 |
| 49 | 141238000490 | DVD125,KNOB-BAND-4-5-6,PC,BLACK | 1 |
| 50 | 141238000497 | DVD125,KNOB-REV,PC,BLACK | 1 |

| Item | Assembly Part NO | Description | QTY |
|------|-------------------|------------------------------------|-----|
| 51 | 141238000489 | DVD125,KNOB-AMS,PC,BLACK | 1 |
| 52 | 141238000493 | DVD125,KNOB-FF,PC,BLACK | 1 |
| 53 | 141238000492 | DVD125,KNOB-EJ,PC,BLACK | 1 |
| 54 | 84803DVD125LCD001 | LCD ASSEMBLY | 1 |
| 55 | 83802DVD125EKB010 | DVD125E GREEN KB SMT Assm | 1 |
| 56 | 141218000116 | DVD125,PANEL BACK,ABS777D | 1 |
| 57 | 121040000184 | SCREW,PTP,BLACK Zinc,M2X10 | 4 |
| 58 | 141290000604 | DVD125,LIGHT GUIDE VOL,PC | 1 |
| 59 | 141238000496 | DVD125,KNOB-PWR,PC,BLACK | 1 |
| 60 | 141238000494 | DVD125,KNOB-MUTE,PC,BLACK | 1 |
| 61 | 141238000396 | KNOB-LOUD PC FOR CM125 BLACK | 1 |
| 62 | 141238000498 | DVD125,KNOB-SRC,PC,BLACK | 1 |
| 63 | 141238000491 | DVD125,KNOB-DISP-1-2-3,PC,BLACK | 1 |
| 64 | 121035000133 | CM123,SPRING OF OPEN BUTTON,0.3mm | 1 |
| 65 | 141238000495 | DVD125,KNOB-OPEN,ABS,BLACK | 1 |
| 66 | 141235030077 | DH-500,KNOB ENCODER,PC,WATER PLUTE | 1 |