

9CD8304600

# Service Manual

## Mini Component Sound System

**Model : XG-645/646/647/648  
XG-6483**



**DAEWOO DAT CO., LTD.**

*May. 2006*



# **Mini component sound system**

## **XG-645/646/647/648**

## **XG-6483**

### **Table of Contents**

|                                                      |          |
|------------------------------------------------------|----------|
| <b>SAFETY PRECAUTIONS .....</b>                      | <b>1</b> |
| <b>ADJUSTMENTS .....</b>                             | <b>2</b> |
| <b>EXPLODED VIEW AND MECHANICAL PARTS LIST .....</b> | <b>3</b> |
| <b>WIRING DIAGRAM .....</b>                          | <b>4</b> |
| <b>BLOCK DIAGRAM .....</b>                           | <b>5</b> |
| <b>SCHEMATIC DIAGRAM .....</b>                       | <b>6</b> |
| • FRONT Section(XG-645/ 646/ 647/ 648/ 6483)         |          |
| • FUNCTION Section(XG-645/ 646/ 647/ 648/ 6483)      |          |
| • MP3 CD Section(XG-645/ 646/ 647/ 648/ 6483)        |          |
| • AMP Section(XG-645, 646/647/648, 6483)             |          |
| • POWER Section(XG-645, 646/ 647/ 648/ 6483)         |          |
| <b>PCB PATTERN LAYOUT .....</b>                      | <b>7</b> |
| • FRONT Section(XG-645/ 646/ 647/ 648/ 6483)         |          |
| • FUNCTION Section(XG-645/ 646/ 647/ 648/ 6483)      |          |
| • MP3 CD Section(XG-645/ 646/ 647/ 648/ 6483)        |          |
| • AMP Section(XG-645, 646/647/648, 6483)             |          |
| • POWER Section(XG-645, 648, 647/ 6483)              |          |
| <b>APPENDIX - ELECTRICAL PART LIST .....</b>         | <b>8</b> |

# Safety Precautions

**WARNING:** TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

|                                                                                                                                                                                                                        |                                                                        |                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                                                                                                                       | <b>CAUTION</b><br><b>RISK OF ELECTRIC SHOCKS</b><br><b>DO NOT OPEN</b> |  |
| <p><b>CAUTION :</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>                                         |                                                                        |                                                                                   |
| <p>THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.</p> |                                                                        |                                                                                   |
| <p>THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.</p>                                         |                                                                        |                                                                                   |

## **CAUTION**

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

## **LASER SAFETY**

THIS UNIT EMPLOYS A LASER. ONLY QUALIFIED SERVICE PERSONNEL SHOULD REMOVE THE COVER OR ATTEMPT TO SERVICE THIS DEVICE DUE TO POSSIBLE EYE INJURY.

**CAUTION :** USE OF ANY CONTROLS, ADJUSTMENTS, OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

**CAUTION :** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

**ATTENTION :** POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

## Important Safety Instructions

- All the safety and operating instructions should be read before the appliance is operated.
  - The safety and operating instructions should be retained for future reference.
  - All warnings on the appliance and in the operating instructions should be adhered to.
  - All operating and use instructions should be followed.
1. Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink,

laundry tub, in a wet basement, or near a swimming pool, and the like.

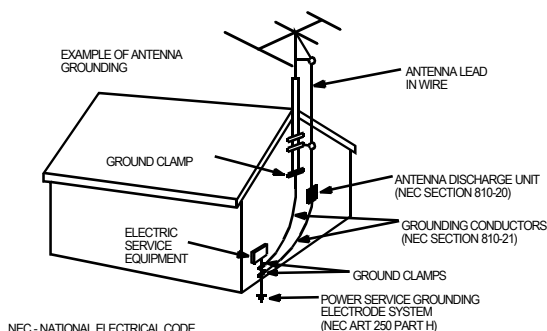
## PORTABLE CART



Figure 2

2. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
3. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
4. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
5. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
6. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
7. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
8. Grounding or Polarization - The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
9. Power - Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
10. Protective Attachment Plug - If the appliance is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
11. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
12. Power Lines - An outdoor antenna should be located away from power lines.

13. Outdoor Antenna Grounding - If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Figure 1.



14. Non-use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

15. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

16. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:

- a) The power-supply cord or the plug has been damaged; or
- b) Objects have fallen, or liquid has been spilled into the appliance; or
- c) The appliance has been exposed to rain; or
- d) The appliance does not appear to operate normally or exhibits a marked change in performance; or
- e) The appliance has been dropped, or the enclosure damaged.

17. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

# APPENDIX - ELECTRICAL PART LIST

| PCB FUNCTION ASS'Y |            | 9CDC082402<br>9CDC082400<br>9CDC082401 | XG-6483<br>XG-646/7/8<br>XG-645 |
|--------------------|------------|----------------------------------------|---------------------------------|
| Locations          | Part Code  | Part Name                              | Description                     |
| B401               | 9CD6502800 | PCB FUNCTION                           | 197 X 122 X 1.6T                |
| HD401 HD402        | DZDS160--- | DIODE SW CHIP                          | KDS160 (KDS511)                 |
| HD403              | DZDS160--- | DIODE SW CHIP(XG-6483)                 | KDS160 (KDS511)                 |
| HQ401 HQ402        | TZTC3875S- | TR CHIP(XG-647/83)                     | KTC3875Y                        |
| HZ401              | DMTZ5R1B-- | DIODE ZENER CHIP                       | UDZ5.1B 17X12                   |
| HZ402 HZ404        | DMTZ3R6B-- | DIODE ZENER CHIP                       | UDZ3.6B 17X12                   |
| IC451              | 1NJM4558M- | IC                                     | NJM4558M                        |
| IC452              | 1NJM4558M- | IC(XG-6483)                            | NJM4558M                        |
| IC601              | 1BD3401KS2 | IC PROCESSOR                           | BD3401KS2                       |
| J401               | 9736329000 | JACK RCA                               | S-436P RED-WHITE                |
| J403               | 9736322900 | JACK RCA                               | RCA-108 YW                      |
| TU001              | 9737652901 | TUNER MODULE                           | KST-ML104MV1-E66                |

| PCB MP3CD ASS'Y |            | 9CDC082500       | XG-645/6/7/8/83          |
|-----------------|------------|------------------|--------------------------|
| Locations       | Part Code  | Part Name        | Description              |
| B501            | 9CD6503700 | PCB CD           | 96X96X1.6T FR-4          |
| HQ501           | TZRC107S-- | TR CHIP          | KRC107S                  |
| HQ502           | TZRA107S-- | TR CHIP          | KRA107S                  |
| HQ503 HQ506     | TZT1304--  | TR CHIP          | KTD1304                  |
| HQ504 HQ505     | TZTA1504S- | TR CHIP          | KTA1504Y                 |
| HZ500 HZ502     | DMTZ5R6B-- | DIODE ZENER CHIP | UDZ5.6B 17X12            |
| HZ501           | DMTZ3R9B-- | DIODE ZENER CHIP | UDZ3.9B 17X12            |
| IC501           | 1LC78691E- | IC CD MP3        | LC78691E                 |
| IC502           | 1BA5927FM- | IC MOTOR DRIVE   | BA5927FM                 |
| IC503           | 1LC87F14C8 | IC USB DECODER   | LC87F14C8A               |
| L501 L502       | HRF8000-CA | R CHIP           | 1/8 0 OHM J 2012         |
| L504            | HLC220J03A | COIL CHIP        | 22uH CHIP COIL 2012      |
| Q502 Q503       | TZSC2331Y- | TR               | KSC2331Y AUTO            |
| XC501           | 5XJ16R934C | X-TAL            | HC-49/U 16.9344MHz 20PPM |
| XC571           | 5XE12M000J | CRYSTAL QUARTZ   | 12.000MHz                |

| PCB USB ASS'Y |             | 9CDC082302<br>9CDC082300 | XG-6483<br>XG-645/6/7/8 |
|---------------|-------------|--------------------------|-------------------------|
| Locations     | Part Code   | Part Name                | Description             |
| B701          | 9CD6503501  | PCB USB JACK             | 247 X 163 X 1.6T        |
| J702          | 9736329100  | JACK                     | RCA-308HG video Jack    |
| J703          | 9736329300  | JACK USB                 | USAF-046N-WP-01         |
| SW718 SW719   | 5S50101Z67A | SW TACT                  | SKQNAED010              |
| SW720         | 5S50101Z67A | SW TACT(XG-6483)         | SKQNAED010              |

| PCB FRONT ASS'Y                                                                                                                                       |             | 9CDC082204<br>9CDC082201 | XG-6483<br>XG-645/6/7/8    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------|----------------------------|
| Locations                                                                                                                                             | Part Code   | Part Name                | Description                |
| B701                                                                                                                                                  | 9CD6503500  | PCB FRONT                | 247 X 197 X 1.6T           |
| FD701                                                                                                                                                 | DHNA15MM38  | VFD                      | HNA-15MM38                 |
| HD354 HD355 HD356 HD701 HD707 HD708 HD712 HD751                                                                                                       | DZDS160---  | DIODE SW CHIP            | KDS160 (KDS511)            |
| HQ354 HQ355 HQ356 HQ713                                                                                                                               | TZTC3875S-  | TR CHIP                  | KTC3875Y                   |
| HQ701 HQ717 HQ719 HQ720 HQ723                                                                                                                         | TZRC107S--  | TR CHIP                  | KRC107S                    |
| HQ711 HQ712 HQ751 HQ752 HQ755                                                                                                                         | TZRC111S--  | TR CHIP                  | KRC111S                    |
| HQ714 HQ715 HQ716 HQ718 HQ724 HQ757                                                                                                                   | TZRA111S--  | TR CHIP                  | KRA111S                    |
| HQ753 HQ754                                                                                                                                           | TZTD1304--  | TR CHIP                  | KTD1304                    |
| IC352                                                                                                                                                 | 1NJM4558M-  | IC                       | NJM4558M                   |
| IC701                                                                                                                                                 | 1876B64V0-  | IC                       | LC876B48C                  |
| IC702                                                                                                                                                 | 1M24C04MN-  | IC                       | M24C04MN S0P               |
| IC703                                                                                                                                                 | 1MSGEQ5A--  | IC                       | MSGEQ5A                    |
| IC704                                                                                                                                                 | 1F4094BM1T  | IC                       | HCF4094M013TR              |
| IC705                                                                                                                                                 | 1BA4560F--  | IC H/P AMP               | BA4560F                    |
| IC706                                                                                                                                                 | 1HK381B-DW  | IC PRE AMP               | HK381BT-DW                 |
| J352 J701                                                                                                                                             | 9736325300  | JACK H/P                 | HTJ-035-18A                |
| SW701 SW702 SW703 SW704<br>SW705 SW706 SW707 SW708 SW709<br>SW710 SW711 SW712 SW713 SW715<br>SW716 SW717 SW721 SW722 SW723<br>SW724 SW725 SW726 SW727 | 5S50101Z67A | SW TACT                  | SKQNAED010                 |
| VR352                                                                                                                                                 | 5V1503730B  | VOL MIC                  | XV09211NPV20F1B50K         |
| VR701, VR702                                                                                                                                          | 5SH1224375  | SW ENCODER               | RE0123PVB25FINB 1-2-24 PCE |
| XC701                                                                                                                                                 | 5PZTT10MT-  | RESONATOR CERA           | ZTT10.00MT(10MHz, 3PIN)    |
| XC702                                                                                                                                                 | 5XA32R768C  | X-TAL                    | C38T 32.768KHz 20PPM       |

# APPENDIX - ELECTRICAL PART LIST

| PCB AMP ASS'Y                                                                 | 9CDC082700    | Digital                      | XG-6483                                           |
|-------------------------------------------------------------------------------|---------------|------------------------------|---------------------------------------------------|
|                                                                               | 9CDC082602    | Digital                      | XG-648                                            |
|                                                                               | 9CDC082601    | Digital                      | XG-647                                            |
|                                                                               | 9CDC082600    | Digital                      | XG-646                                            |
| Locations                                                                     | Part Code     | Part Name                    | Description                                       |
| B801                                                                          | 9CD6503100    | PCB AMP DIGITAL(XG-646)      | 132X130.8X1.6T FR-4                               |
|                                                                               | 9CD6503100    | PCB AMP DIGITAL(XG-647)      | 132X130.8X1.6T FR-4                               |
|                                                                               | 9CD6503200    | PCB AMP DIGITAL(XG-6483)     | 132X130.5 FR4                                     |
| HD805 HD811 HD812 HD813 HD815<br>HD816 HD817 HD818                            | DZDS160---    | DIODE SW CHIP                | KDS160 (KDS511)                                   |
| HD819 HD820 HD827 HD828                                                       | DZDS160---    | DIODE SW CHIP(XG-6483)       | KDS160 (KDS511)                                   |
| HQ801 HQ803 HQ807 HQ809 HQ810<br>HQ811 HQ827 HQ829                            | TZTA1504S-    | TR CHIP                      | KTA1504Y                                          |
| HQ831 HQ834 HQ836                                                             | TZTA1504S-    | TR CHIP(XG-6483)             | KTA1504Y                                          |
| HQ802                                                                         | TMMBTA06--    | TR CHIP                      | MMBTA06                                           |
| HQ833                                                                         | TMMBTA06--    | TR CHIP(XG-6483)             | MMBTA06                                           |
| HQ804                                                                         | TMMBTA56--    | TR CHIP                      | MMBTA56                                           |
| HQ835                                                                         | TMMBTA56--    | TR CHIP(XG-6483)             | MMBTA56                                           |
| HQ805 HQ806 HQ808 HQ812<br>HQ813 HQ814 HQ815 HQ817 HQ818<br>HQ819 HQ823 HQ828 | TZTC3875S-    | TR CHIP                      | KTC3875Y                                          |
| HQ816 HQ832                                                                   | TZTC3875S-    | TR CHIP(XG-6483)             | KTC3875Y                                          |
| HQ820                                                                         | TZRA111S--    | TR CHIP                      | KRA111S                                           |
| HQ821 HQ822 HQ830                                                             | TZRC111S--    | TR CHIP(XG-6483)             | KRC111S (THERMAL DETECTION)                       |
| HQ824 HQ825                                                                   | TEMT2-----    | TR CHIP                      | EMT2 2SA1037AK X 2                                |
| HQ826                                                                         | TEMX2-----    | TR CHIP                      | EMX2 2SC2412AK X 2                                |
| HZ801 HZ802 HZ803 HZ804                                                       | DMTZ10B---    | DIODE ZENER CHIP             | UDZ10B 17X12                                      |
| HZ806 HZ807                                                                   | DMTZ10B---    | DIODE ZENER CHIP(XG-6483)    | UDZ10B 17X12                                      |
| HZ805                                                                         | DRLZ2R7B--    | DIODE ZENER CHIP             | RLZ2.7B                                           |
| HZ808                                                                         | DRLZ2R7B--    | DIODE ZENER CHIP(XG-6483)    | RLZ2.7B                                           |
| IC801                                                                         | 1S1A0071--    | IC AUDIO PROCESSOR           | S1A0071_401                                       |
| IC807                                                                         | 1S1A0071--    | IC AUDIO PROCESSOR(XG-6483)  | S1A0071_401                                       |
| IC802                                                                         | 1S1A0051X-    | IC FET DRIVER                | S1A0051X                                          |
| IC808                                                                         | 1S1A0051X-    | IC FET DRIVER(XG-6483)       | S1A0051X                                          |
| IC803                                                                         | 1KIA7905AP    | IC REGULATOR                 | KIA7905AP                                         |
| IC804                                                                         | 1KIA7805AP    | IC REGULATOR                 | KIA7805AP                                         |
| IC806                                                                         | 1NJM4558M-    | IC                           | NJM4558                                           |
| J801                                                                          | 9736320500    | JACK SPEAKER(XG-646/7)       | CJ9007-040                                        |
| J801                                                                          | 9736330400    | JACK SPEAKER(XG-6483)        | PTB-801S1                                         |
| L801 L802                                                                     | 5LF150K855    | COIL FILTER                  | 15uH(TC16B-09)                                    |
| L803                                                                          | 5LF150K855    | COIL FILTER(XG-6483)         | 15uH(TC16B-09)                                    |
| Q801 Q803                                                                     | DFQF15P12-    | FET                          | FQPF15P12                                         |
| Q805                                                                          | DFQF15P12-    | FET(XG-6483)                 | FQPF15P12                                         |
| Q802 Q804                                                                     | DFQF16N15-    | FET                          | FQPF16N15                                         |
| Q806                                                                          | DFQF16N15-    | FET(XG-6483)                 | FQPF16N15                                         |
| R829                                                                          | HRFR047JLCR   | R CHIP(XG-646/7)             | 1W 0.047 OHM 64X32 5%(MCR100JZHJSR047) (64x)      |
| R829                                                                          | HRFR091JLCR   | R CHIP(XG-6483)              | 1W 0.091 OHM 64X32 5%(MCR100JZHJSR091) 6483       |
| R830                                                                          | HRFR091JLCR   | R CHIP(XG-6483)              | 1W 0.091 OHM 64X32 5%(MCR100JZHJSR091) 6483       |
| R832                                                                          | HRFR047JLCR   | R CHIP(XG-6483)              | 1W 0.047 OHM 64X32 5%(MCR100JZHJSR047) (64x)      |
| R853                                                                          | HRFR047JLCR   | R CHIP                       | 1W 0.047 OHM 64X32 5%(MCR100JZHJSR047) (64x)      |
| R816                                                                          | RS03Y100J-    | R METAL OXIDE FILM(XG-646/7) | 3W 10 OHM J                                       |
| R 817 R847 R848                                                               | RS03Y100J-    | R METAL OXIDE FILM           | 3W 10 OHM J                                       |
| TH801                                                                         | DTD5410K--    | THERMISTOR(XG-6483)          | FTD5-410 100K OHM +/- 10% LUG (THERMAL DETECTION) |
| PCB AMP ASS'Y                                                                 | 9CDC076302    | ANALOG                       | XG-645                                            |
| B800                                                                          | 9CD6598300-02 | PCB AMP                      | 197X197X1.6T                                      |
| D801 D802                                                                     | DZN4148---    | DIODE                        | IN4148 AUTO 52MM                                  |
| IC801                                                                         | 1STK433060    | IC                           | STK433-060                                        |
| J801                                                                          | 9736320500    | JACK SPEAKER                 | CJ9007-040                                        |
| Q801 Q802                                                                     | TZTD1302Y-    | TR                           | KTD1302Y AUTO                                     |
| Q803 Q804                                                                     | TZRA111M--    | TR                           | KRA111M(KSR2010) AUTO                             |
| Q805                                                                          | TZTC3198Y-    | TR                           | KTC3198Y (2SC5343) AUTO                           |
| R801 R802 R824                                                                | RD-AZ222J-    | R CARBON FILM                | 1/6 2.2K OHM J                                    |
| R803 R804 R827                                                                | RD-AZ102J-    | R CARBON FILM                | 1/6 1K OHM J                                      |
| R805 R806                                                                     | RD-AZ104J-    | R CARBON FILM                | 1/6 100K OHM J                                    |
| R807 R808                                                                     | RD-AZ471J-    | R CARBON FILM                | 1/6 470 OHM J                                     |
| R809 R810 R833 R834                                                           | RD-AZ563J-    | R CARBON FILM                | 1/6 56K OHM J                                     |
| R811 R812                                                                     | RD-AZ182J-    | R CARBON FILM                | 1/6 1.8K OHM J                                    |
| R817 R818                                                                     | RS-4Z100J-    | R METAL OXIDE FILM           | 1/4 10 OHM J                                      |
| R823 R863                                                                     | RD-AZ472J-    | R CARBON FILM                | 1/6 4.7K OHM J                                    |
| R825                                                                          | RD-AZ333J-    | R CARBON FILM                | 1/6 33K OHM J                                     |
| R826                                                                          | RD-AZ682J-    | R CARBON FILM                | 1/6 6.8K OHM J                                    |
| R828 R829                                                                     | RS-4Z101J-    | R METAL OXIDE FILM           | 1/4 100 OHM J                                     |
| R835 R836                                                                     | RN02B228JS    | R METAL FILM                 | 2W 0.22 OHM J                                     |
| R860                                                                          | RD-AZ223J-    | R CARBON FILM                | 1/6 22K OHM J                                     |
| R861 R862                                                                     | RS-4Z100J-    | R METAL OXIDE FILM           | 1/4 10 OHM J                                      |

# APPENDIX - ELECTRICAL PART LIST

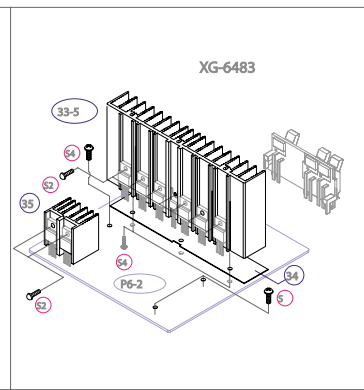
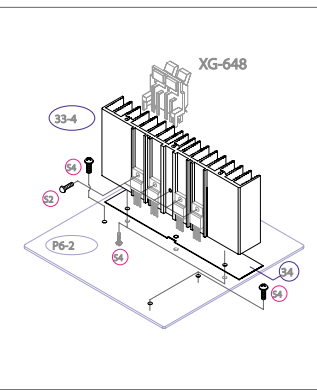
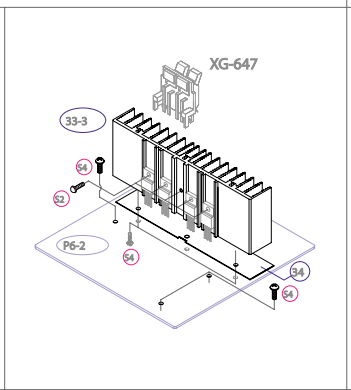
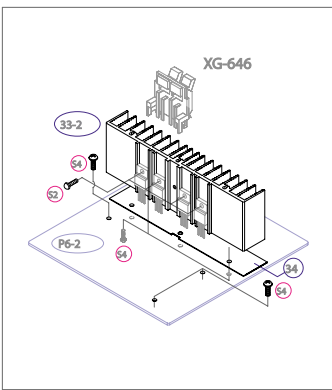
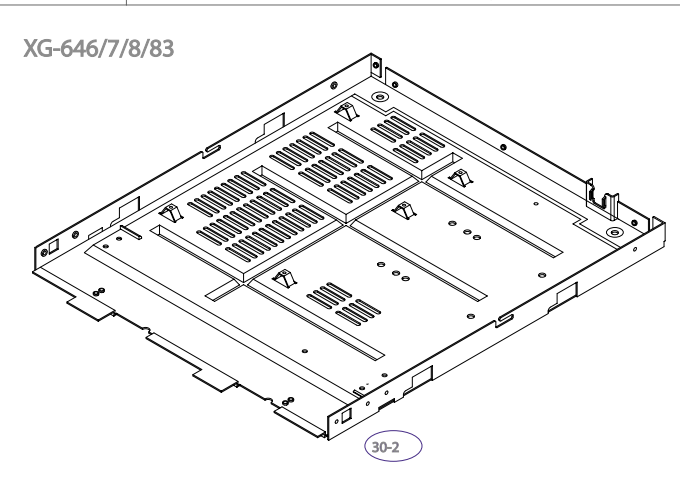
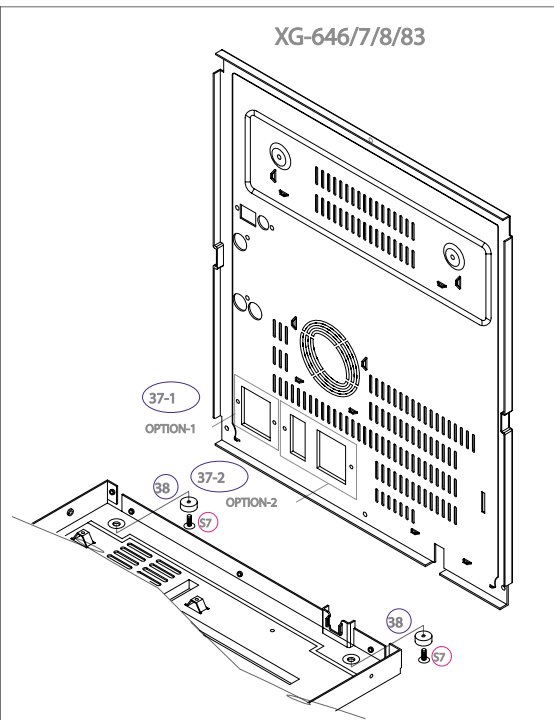
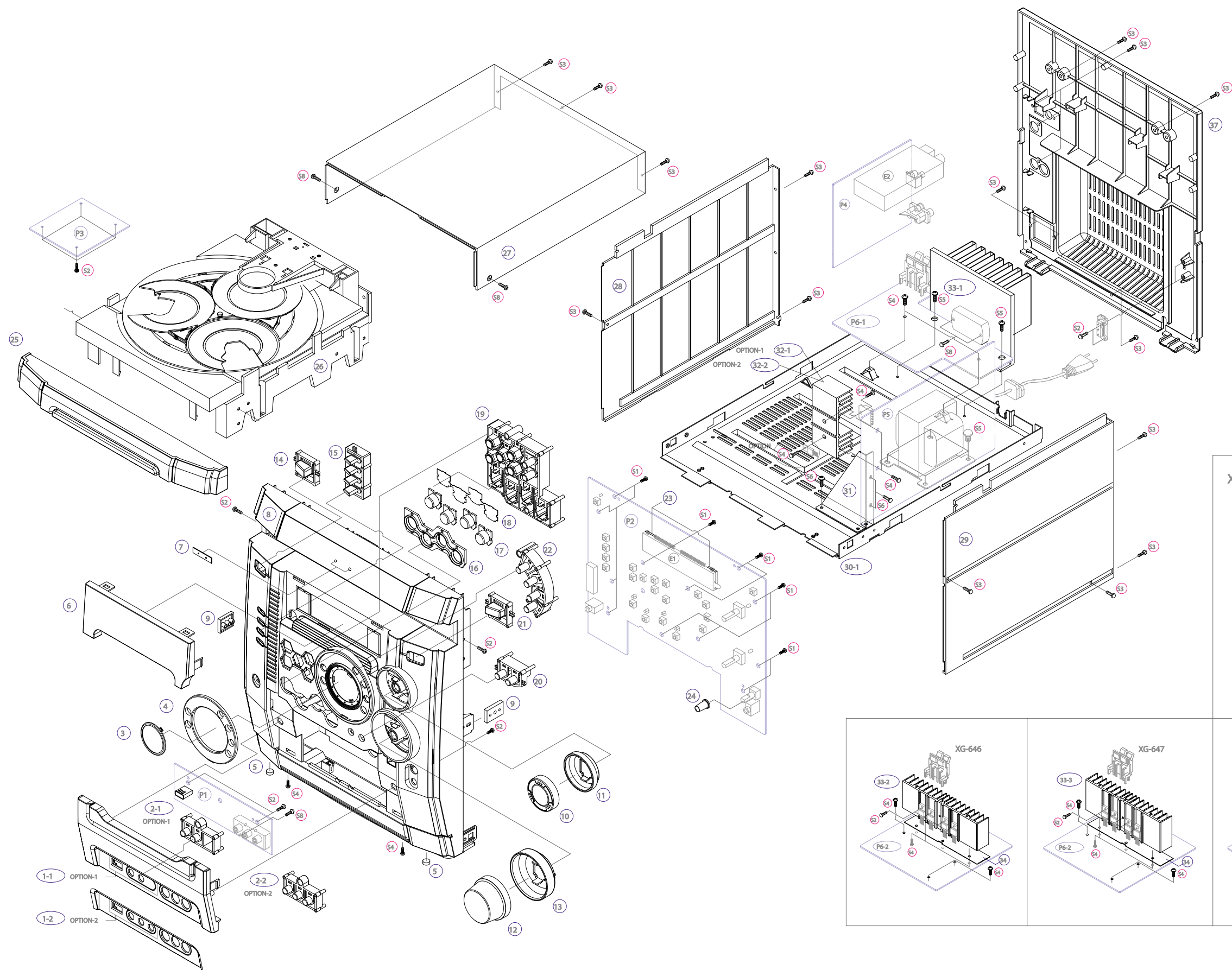
| PCB POWER ASS'Y                              | 9CDC083001    |                          | XG-6483                       |
|----------------------------------------------|---------------|--------------------------|-------------------------------|
|                                              | 9CDC083200    |                          | XG-648                        |
|                                              | 9CDC082901    |                          | XG-647                        |
|                                              | 9CDC082801    |                          | XG-646                        |
| Locations                                    | Part Code     | Part Name                | Description                   |
| B901                                         | 9CD6503000    | PCB POWER                | 197X139X1.6T CEM-1            |
|                                              | 9CD6505900    | PCB POWER                | 197X139X1.6T CEM-1            |
| CC980                                        | CLYL2G472M    | C LINE ACROSS            | DE1307E 472M VA1-KC (FORMING) |
| CD901                                        | 9736909300    | CORD AC                  | KKP 419C KLCE-2F 0.75 SQU     |
| D904 D905                                    | DRL202----    | DIODE                    | RL202                         |
| D917                                         | DKBJ604G--    | DIODE                    | KBJ604G                       |
| F902                                         | 5FSGB1222R    | FUSE GLASS TUBE(XG-645)  | VDE N/T 1.25A 250V            |
|                                              | 5FSGB1622L    | FUSE GLASS TUBE(XG-646)  | VDE TL 1.6A 250V MF51         |
|                                              | 5FSGB2522L    | FUSE GLASS TUBE(XG-647)  | VDE TL 2.5A 250V MF51         |
|                                              | 5FSGB3122L    | FUSE GLASS TUBE(XG-648)  | VDE TL 3.15A 250V MF51        |
|                                              | 5FSGB3122L    | FUSE GLASS TUBE(XG-6483) | VDE TL 3.15A 250V MF51        |
| HD901 HD995                                  | DZDS160---    | DIODE SW CHIP            | KDS160(KDS511)                |
| HD902 HD903 HD906 HD907 HD992<br>HD993 HD994 | D1SR154---    | DIODE RECTIFIER          | 1SR154-400 4526               |
| HD991                                        | D1SR154---    | DIODE RECTIFIER(XG-645)  | 1SR154-400 4526               |
| HD995                                        | DZDS160---    | DIODE SW CHIP            | KDS160(KDS511)                |
| HQ902                                        | TZTC3875S-    | TR CHIP                  | KTC3875Y                      |
| HQ903                                        | TZRA111S--    | TR CHIP                  | KRA111S                       |
| HQ904                                        | TZRC107S--    | TR CHIP                  | KRC107S                       |
| HQ905                                        | T2SA2071--    | TR CHIP                  | 2SA2071                       |
| HQ991                                        | T2SC5824--    | TR CHIP                  | 2SC5824                       |
| HZ902                                        | DMTZ12B---    | DIODE ZENER CHIP         | UDZ12B 17X12                  |
| HZ903                                        | DMTZ30B---    | DIODE ZENER CHIP         | UDZ30B 17X12                  |
| HZ904 HZ905                                  | DMTZ10B---    | DIODE ZENER CHIP         | UDZ10B 17X12                  |
| HZ904 HZ905                                  | DRLZ5R6B--    | DIODE ZENER CHIP(XG-645) | RLZ5.6B                       |
| IC901                                        | 1L4959----    | IC                       | L4959                         |
| IC991                                        | 1AIC1117CY-   | IC REGULATOR             | AIC117-CY                     |
| PT901                                        | 5TP0074951    | TRANS POWER(XG-645)      | EI=74X42 127/220V,60/50Hz     |
|                                              | 5TP8066965    | TRANS POWER(XG-646)      | EI=66X45 230V/50Hz            |
|                                              | 5TP8074967    | TRANS POWER(XG-647)      | EI=74X52 230V/50Hz            |
|                                              | 5TP8074958    | TRANS POWER(XG-648)      | EI=74X62 230V/50Hz            |
|                                              | 5TP8074969    | TRANS POWER(XG-6483)     | EI=74X62 230V/50Hz            |
| PT992                                        | 5TP8028829    | TRANS POWER              | EI=28X12 230V 50HZ            |
| Q901                                         | TZTA1046Y-    | TR                       | KTA1046Y (KTA1366Y) AUTO      |
| R991                                         | RN-2Y475J-    | R METAL FILM             | 1/2W 4.7M OHM J               |
| RF901 RF902                                  | RF01F4780J-32 | R FUSEABLE               | 1W 0.47 OHM (32 times)        |
| RY991                                        | 5SC2001A01    | SW RELAY                 | SDT-S-105LMR                  |

## REMOCON ASS'Y

9CDM062503 (without RDS function) : AM-52M

9CDM062601 (with RDS function) : AM-52MR

# Exploded View and Mechanical Parts List

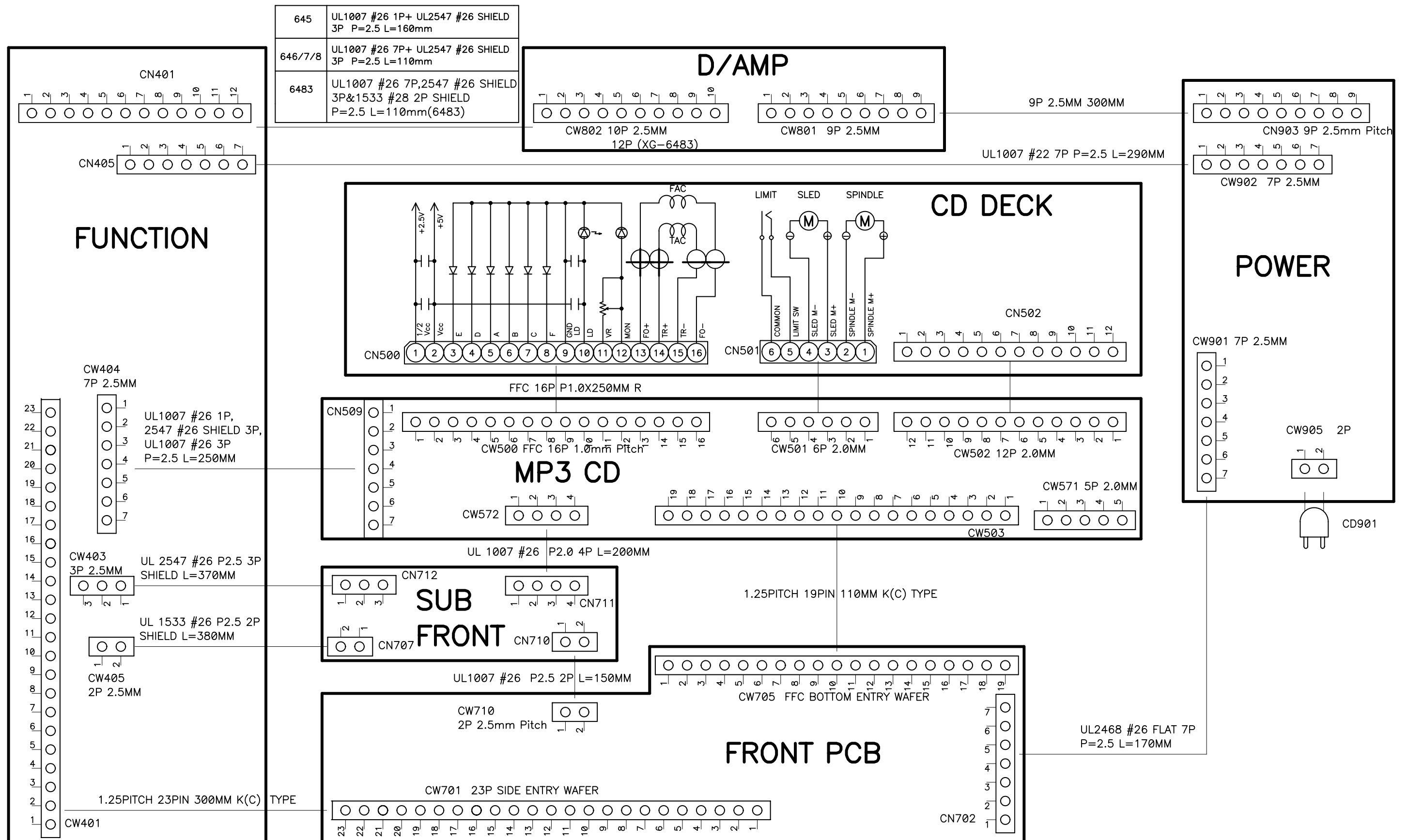


Exploded View and Mechanical Parts List

| NO   | PARTS NAME     | CODE NO.   | DESCRIPTIONS      | Q'TY | REMARKS                   |
|------|----------------|------------|-------------------|------|---------------------------|
| 1-1  | DOOR JACK      | 9CD1816701 |                   | 1    | FOR XG-645/6/7/8, OPTION  |
| 1-2  |                | 9CD1816702 | HIPS, SPRAY, SILK | 1    | FOR XG-6483, OPTION       |
| 2-1  | KNOB GAME      | 9CD1358900 | HIPS, SPRAY       | 1    | FOR XG-645/6/7/8, OPTION  |
| 2-2  |                | 9CD1358901 | HIPS, SPRAY       | 1    | FOR XG-6483, OPTION       |
| 3    | DECO DOOR      | 9CD1006000 | ABS, CrO2 PLATING | 1    |                           |
| 4    | DECO WINDOW    | 9CD1624500 | ACRYL, SILK       | 1    |                           |
| 5    | CUSHION FOOT   | 9CD4207700 | URETHANE D10*4.0T | 2    |                           |
| 6    | WINDOW FLT     | 9CD1623900 | ACRYL, SMOG, SILK | 1    |                           |
| 7    | BADGE BRAND    | 9CD1505300 | AL                | 1    | DAEWOO                    |
| 8    | PANEL FRONT    | 9CD0316100 | HIPS, SPRAY, SILK | 1    |                           |
| 9    | BRACKET SIDE   | 9CD2412900 | ABS               | 2    |                           |
| 10   | KNOB JOG       | 9CD1358700 | HIPS, SPRAY       | 1    |                           |
| 11   | DECO JOG       | 9CD1009800 | ACRYL             | 1    |                           |
| 12   | KNOB VOL.      | 9CD1358200 | ABS, Cr2O PLATING | 1    | ELECTRO FORMING           |
| 13   | DECO VOL.      | 9CD1008600 | ACRYL             | 1    |                           |
| 14   | KNOB POWER     | 9CD1357700 | ABS, SPRAY, SILK  | 1    |                           |
| 15   | KNOB GEQ       | 9CD1357900 | HIPS, SPRAY       | 1    |                           |
| 16   | DECO FUNCTION  | 9CD1009900 | ABS, CrO2 PLATING | 1    |                           |
| 17   | LENS FUNCTION  | 9CD1624600 | ACRYL, SILK       | 1    |                           |
| 18   | PLATE FILTER   | 9CD0915200 | PC T0.15          | 1    |                           |
| 19   | KNOB PRESET    | 9CD1359000 | HIPS, SPRAY, SILK | 1    |                           |
| 20   | KNOB SLEEP     | 9CD1359100 | HIPS, SPRAY, SILK | 1    |                           |
| 21   | KNOB OPEN      | 9CD1357800 | ABS, SPRAY, SILK  | 1    |                           |
| 22   | KNOB DISC      | 9CD1358800 | HIPS, SPRAY, SILK | 1    |                           |
| 23   | CUSHION FLT    | 9CD4210300 | EVA FOAM T3.0     | 2    |                           |
| 24   | KNOB MIC.      | 9CD1354900 | HIPS, SPRAY       | 1    |                           |
| 25   | DOOR CD        | 9CD1816500 | HIPS, SPRAY, SILK | 1    |                           |
| 26   | CD DECK MECHA  | 9CD6012901 | DCC-01DA          | 1    |                           |
| 27   | COVER TOP      | 9CD0409600 | HIPS              | 1    |                           |
| 28   | COVER SIDE "L" | 9CD04177L0 | HIPS              | 1    |                           |
| 29   | COVER SIDE "R" | 9CD04177R0 | HIPS              | 1    |                           |
| 30-1 | CHASSIS BOTTOM | 9CD0611400 | SECC T1.0         | 1    | FOR XG-645, OPTION        |
| 30-2 | CHASSIS BOTTOM | 9CD0612600 | SECC T1.0         | 1    | FOR XG-646/7/8/83, OPTION |
| 31   | BRACKET PCB D  | 9CD2417800 | SECC T1.0         | 1    |                           |

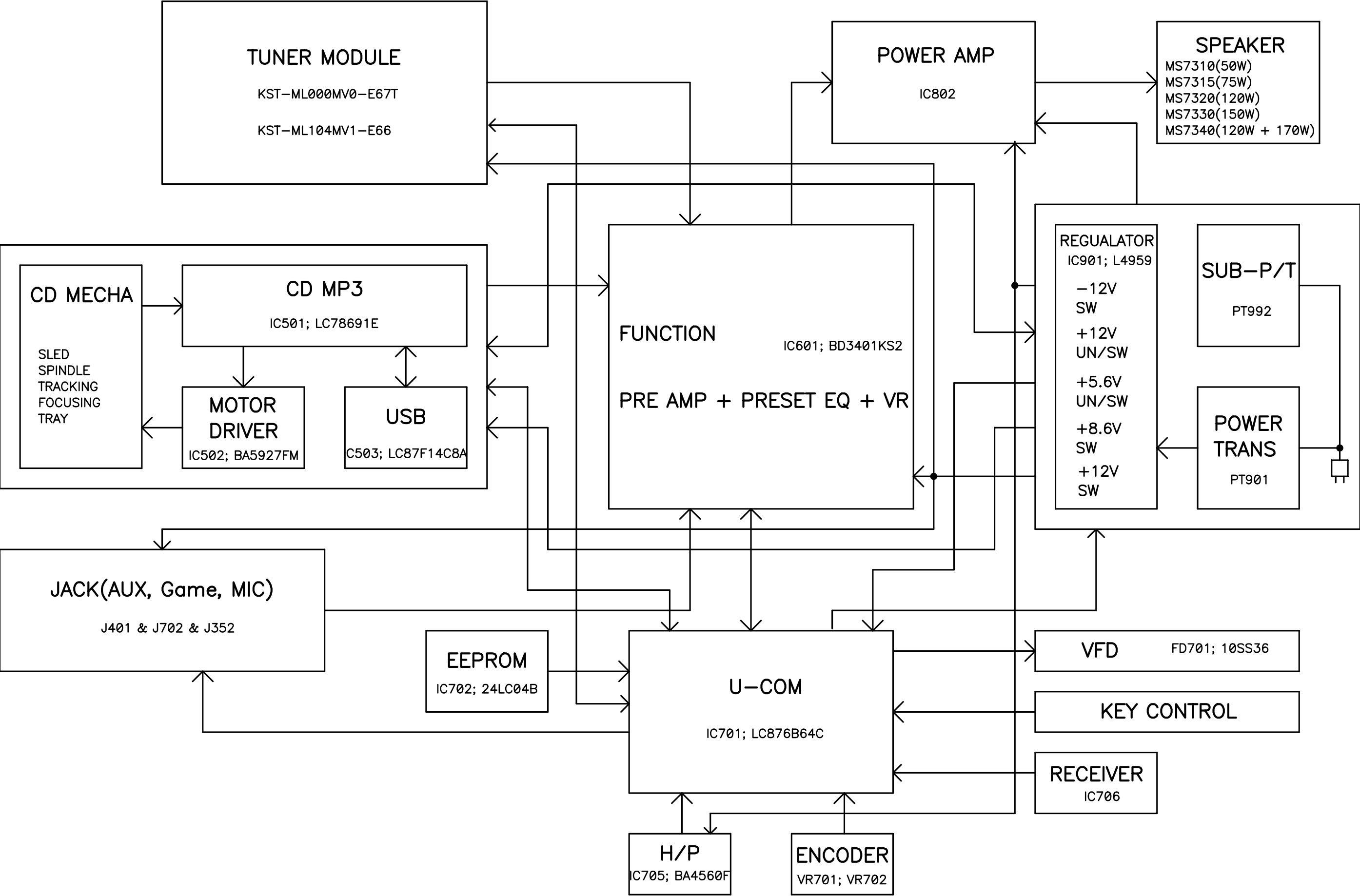
| NO   | PARTS NAME       | CODE NO.   | DESCRIPTIONS         | Q'TY | REMARKS                   |     |     |     |      |
|------|------------------|------------|----------------------|------|---------------------------|-----|-----|-----|------|
| 32-1 | HEATSINK PW      | 9CD4409701 | AL, H=37mm           | 1    | FOR XG-645/6/7, OPTION    |     |     |     |      |
| 32-2 |                  | 9CD4409710 | AL, H=47mm           | 1    | FOR XG-648/83, OPTION     |     |     |     |      |
| 33-1 | HEATSINK 50      | 9CD4409500 | AL                   | 1    | FOR XG-645, OPTION        |     |     |     |      |
| 33-2 | HEATSINK 75W     | 9CD4411800 | AL H=35              | 1    | FOR XG-646, OTPION        |     |     |     |      |
| 33-3 | HEATSINK 120W    | 9CD4411900 | AL H=45              | 1    | FOR XG-647, OPTION        |     |     |     |      |
| 33-4 | HEATSINK AMP 150 | 9CD4410400 | AL H=60              | 1    | FOR XG-648, OPTION        |     |     |     |      |
| 33-5 | HEATSINK 2.1CH   | 9CD4412000 | AL H=65              | 1    | FOR XG-6483, OPTION       |     |     |     |      |
| 34   | PLATE PCB AMP    | 9CD0914600 | PC                   | 1    |                           |     |     |     |      |
| 35   | HEAT SINK IC     | 9CD4408100 | AL                   | 1    | ONLY XG-6483, OPTION      |     |     |     |      |
| 36   | COVER BACK       | 9CD0417605 | HIPS                 | 1    | FOR XG-645, OPTION        |     |     |     |      |
| 37-1 | CHASSIS BACK     | 9CD0612500 | SECC T0.8            | 1    | FOR XG-646/7/8, OPTION    |     |     |     |      |
| 37-2 |                  | 9CD0612501 | SECC T0.8            | 1    | FOR XG-6483, OPTION       |     |     |     |      |
| 38   | RUBBER FOOT      | 9CD0801000 | RUBBER               | 2    | FOR XG-646/7/8/83, OPTION |     |     |     |      |
|      |                  |            |                      |      | 645                       | 646 | 647 | 648 | 6483 |
| S1   | SCREW TAPTITE    | 7173261011 | TT2 BIN 2.6*10 MFZN  |      | 12                        | 12  | 12  | 12  | 12   |
| S2   | SCREW TAPTITE    | 7173301011 | TT2 BIN 3*10 MFZN    |      | 12                        | 16  | 16  | 16  | 21   |
| S3   | SCREW TAPTITE    | 7173301212 | TT2 BIN 3*12 MFZN BK |      | 19                        | 19  | 19  | 19  | 19   |
| S4   | SCREW TAPTITE    | 7173300811 | TT2 BIN 3*8 MFZN     |      | 6                         | 11  | 11  | 11  | 11   |
| S5   | SCREW TAPTITE    | 7173400611 | TT2 BIN 4*6 MFZN     |      | 6                         | 4   | 4   | 4   | 4    |
| S6   | SCREW TAPTITE    | 7173300611 | TT2 BIN 3*6 MFZN     |      | 4                         | 4   | 4   | 4   | 4    |
| S7   | SCREW TAPTITE    | 9CD3102403 | TT2 BIN 3*10 WAS +D8 |      | X                         | 2   | 2   | 2   | 2    |
| S8   | SCREW TAPTITE    | 7173301411 | TT2 BIN 3*14 MFZN    |      | 5                         | 3   | 3   | 3   | 3    |
| P1   | PCB JACK         |            |                      | 1    |                           |     |     |     |      |
| P2   | PCB FRONT        |            |                      | 1    |                           |     |     |     |      |
| P3   | PCB CD           |            |                      | 1    |                           |     |     |     |      |
| P4   | PCB FUNCTION     |            |                      | 1    |                           |     |     |     |      |
| P5   | PCB POWER        |            |                      | 1    |                           |     |     |     |      |
| P6-1 | PCB AMP          |            |                      | 1    | FOR XG-645, OPTION        |     |     |     |      |
| P6-2 | PCB AMP          |            |                      | 1    | FOR XG-646/7/8/83, OPTION |     |     |     |      |
| E1   | VFD              |            |                      | 1    |                           |     |     |     |      |
| E2   | TUNER MODULE     |            |                      | 1    |                           |     |     |     |      |

### • XG-645/ 646/ 647/ 648/ 6483 Models

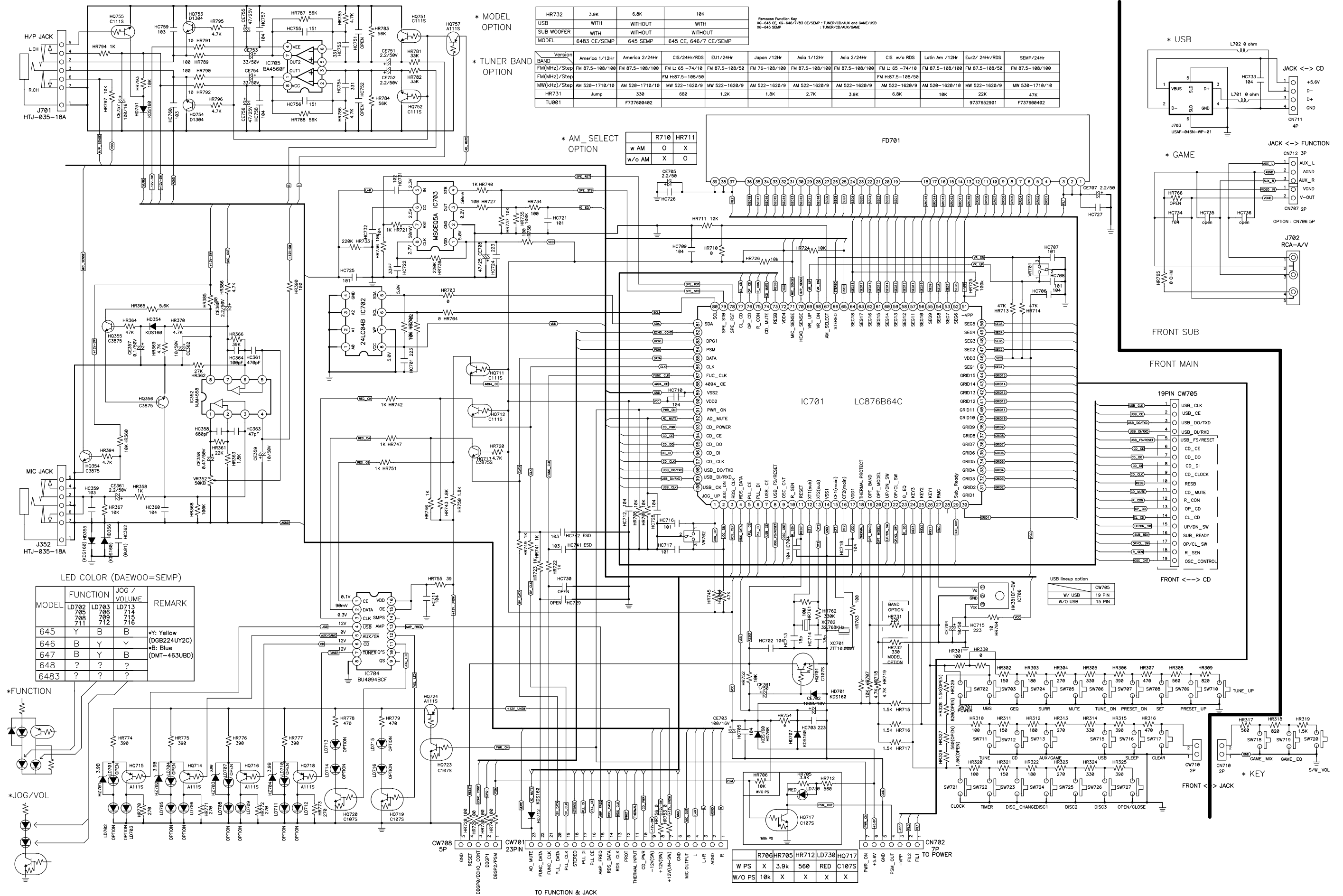


Block Diagram

● XG-645/ 646/ 647/ 648/ 6483 Models



● FRONT : XG-645/ 646/ 647/ 648/ 6483 Models



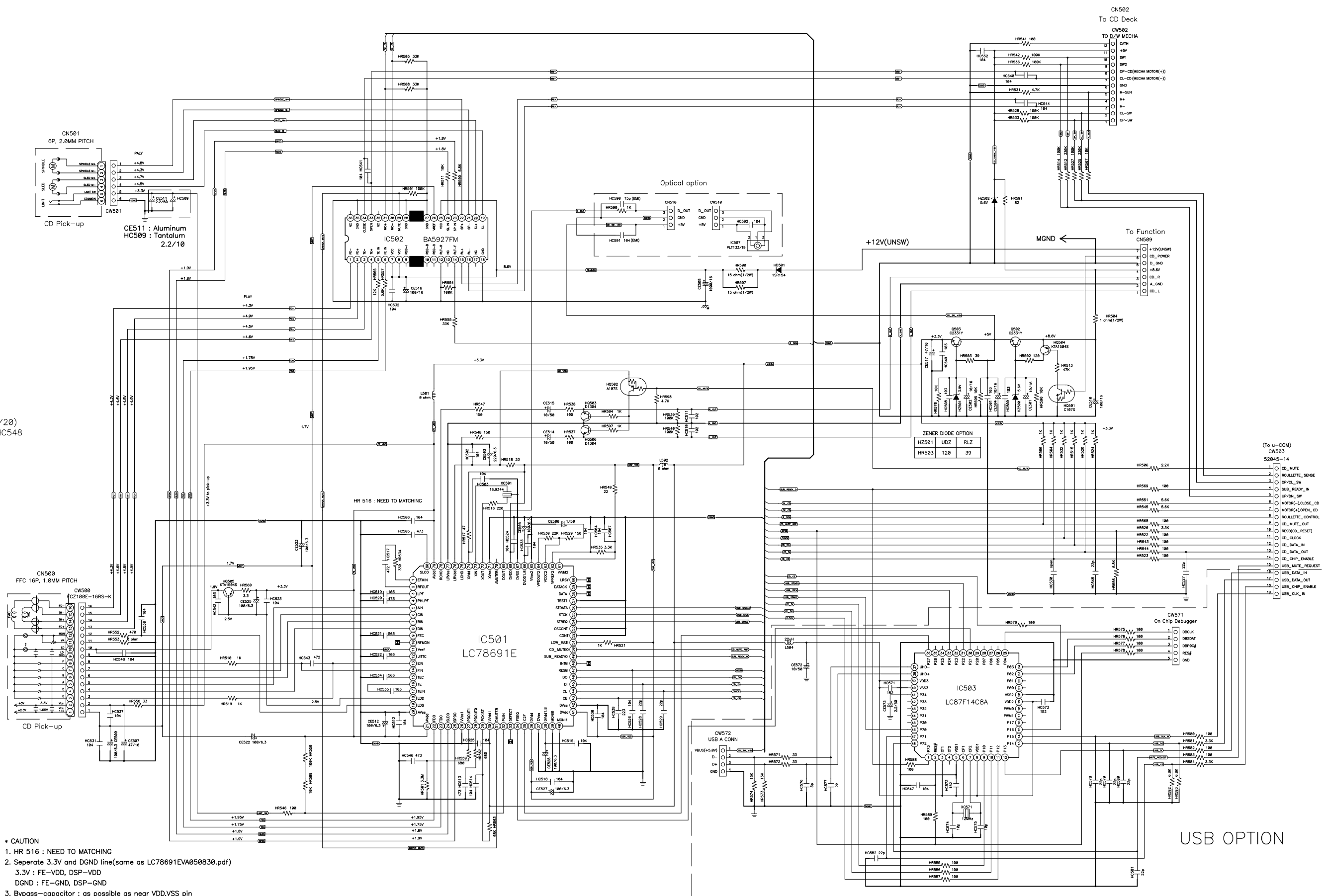
● **FUNCTION : XG-645/ 646/ 647/ 648/ 6483 Models**



|                      |         |       |
|----------------------|---------|-------|
|                      | 645/6/7 | 648   |
| CE453/454            | 4.7/50V | 1/50V |
| CM409/410<br>411/412 | 563     | 123   |
| HR419/420            | 10K     | 39K   |

# Schematic Diagram

## ● MP3 CD Section : XG-645/ 646/ 647/ 648/ 6483 Models

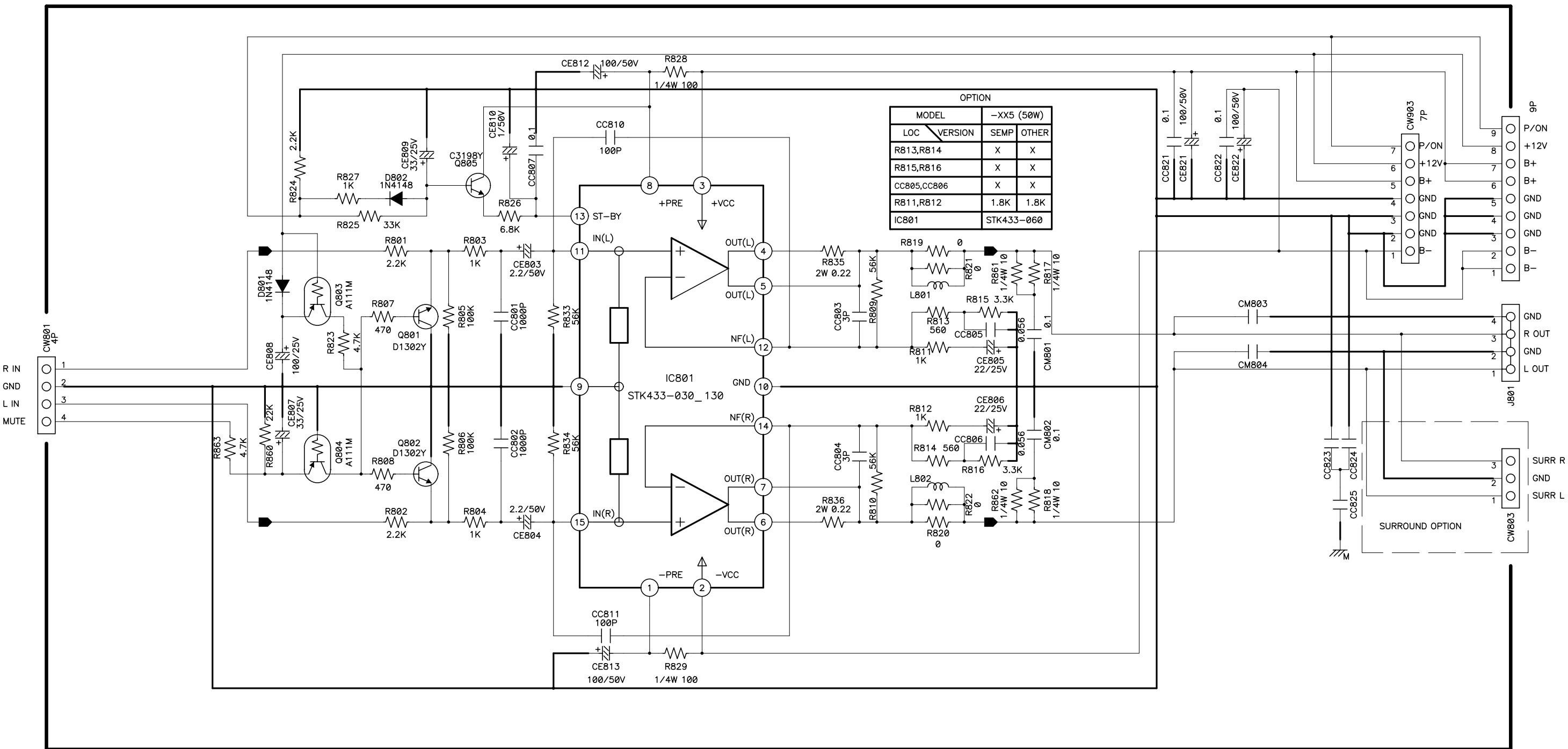


\* Added(6/20)  
CE511, HC548  
HR599

USB OPTION

# Schematic Diagram

● AMP : XG 645 Model Only



● AMP(Class D) : XG 646/ 647 /648 Models

6ohm@75W ->  $V_o = 21.2V$   
6ohm@120W ->  $V_o = 26.8V$   
4ohm@150W ->  $V_o = 24.5V$

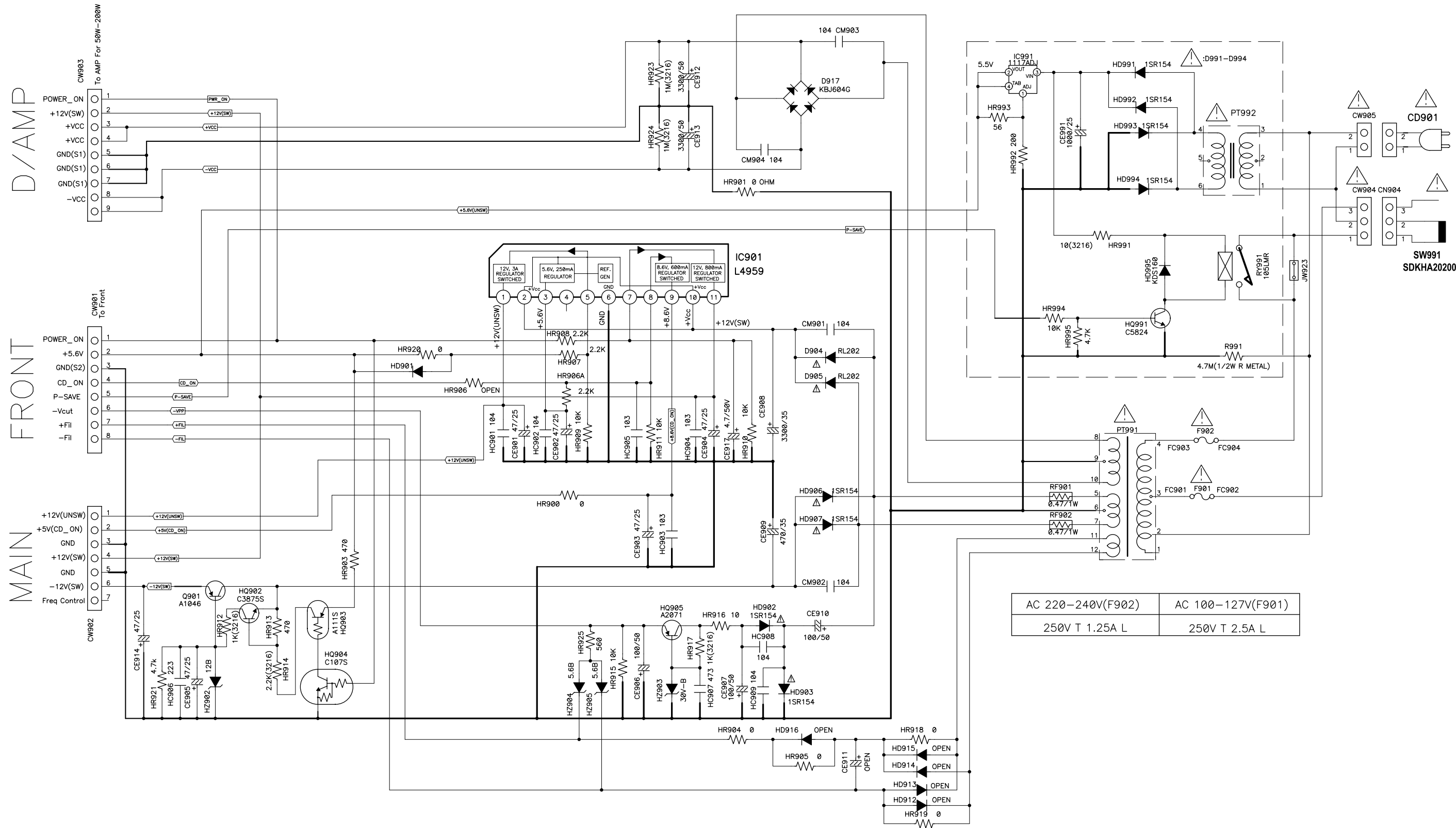
- **AMP(Class D) : XG-6483 Model Only**



3ohm@170W -> Vo= 22.6V  
6ohm@120W -> Vo= 26.8V

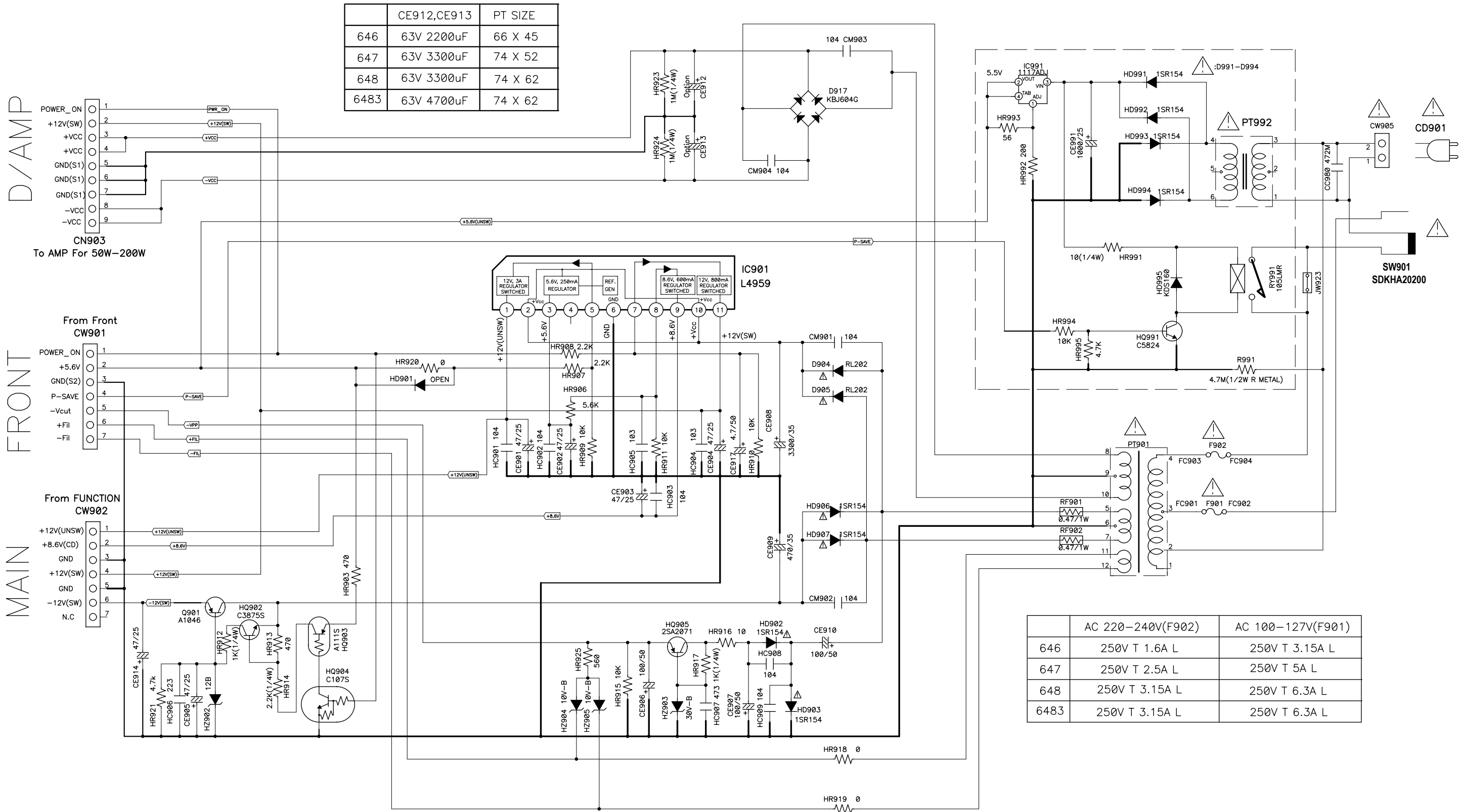
# Schematic Diagram

● POWER : XG-645 Model only

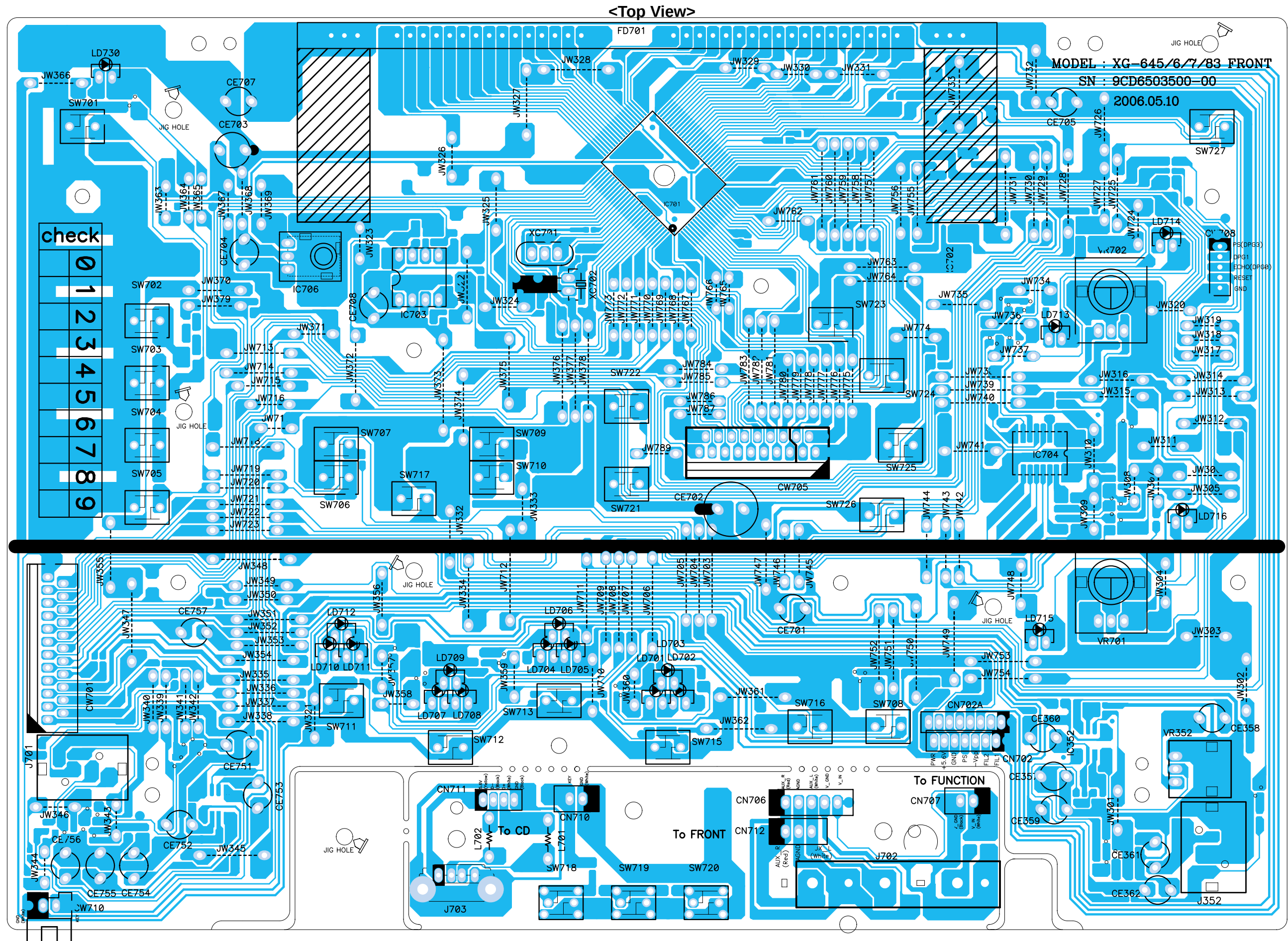


# Schematic Diagram

● POWER : XG-646/ 647/ 648/ 6483 Models

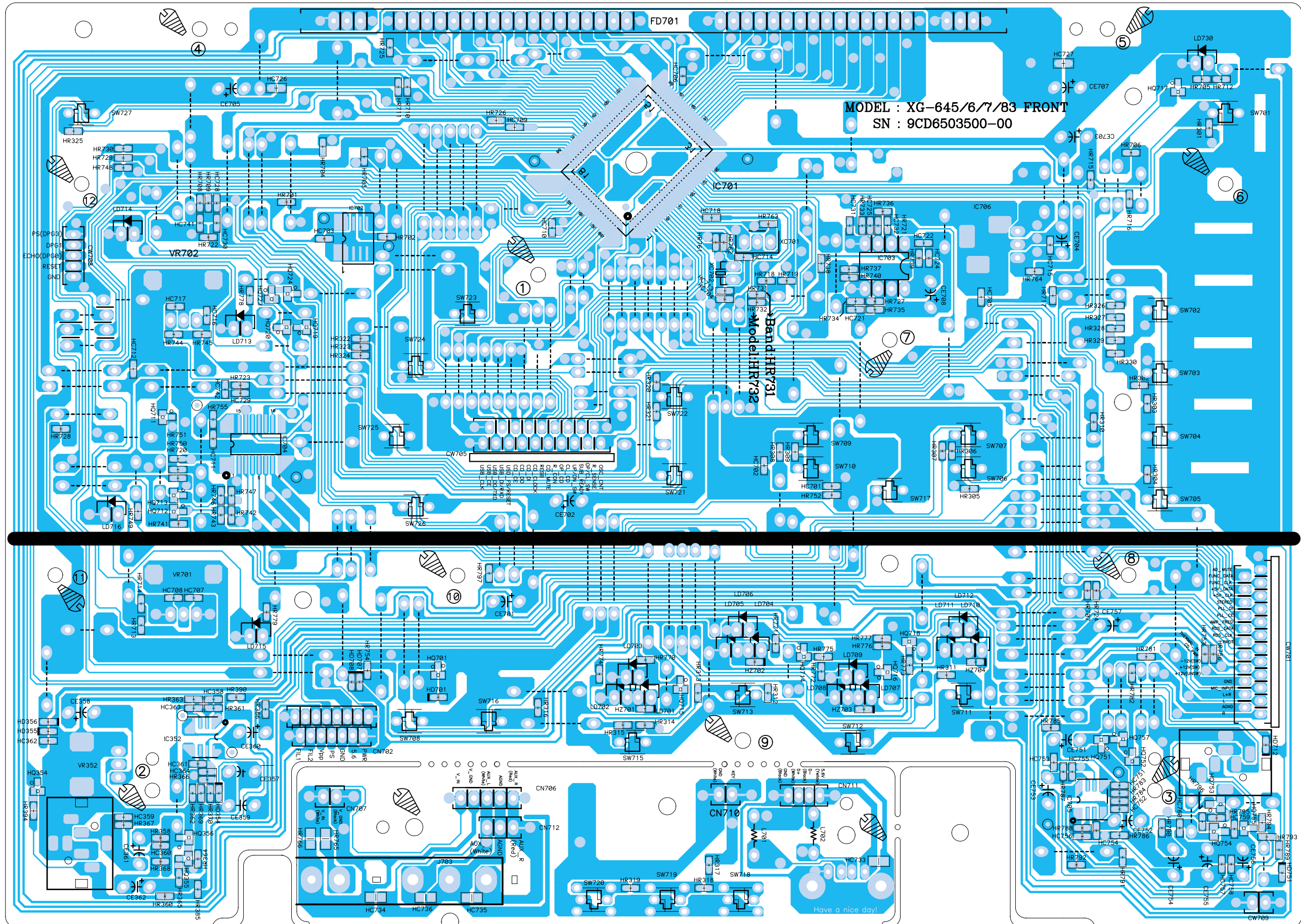


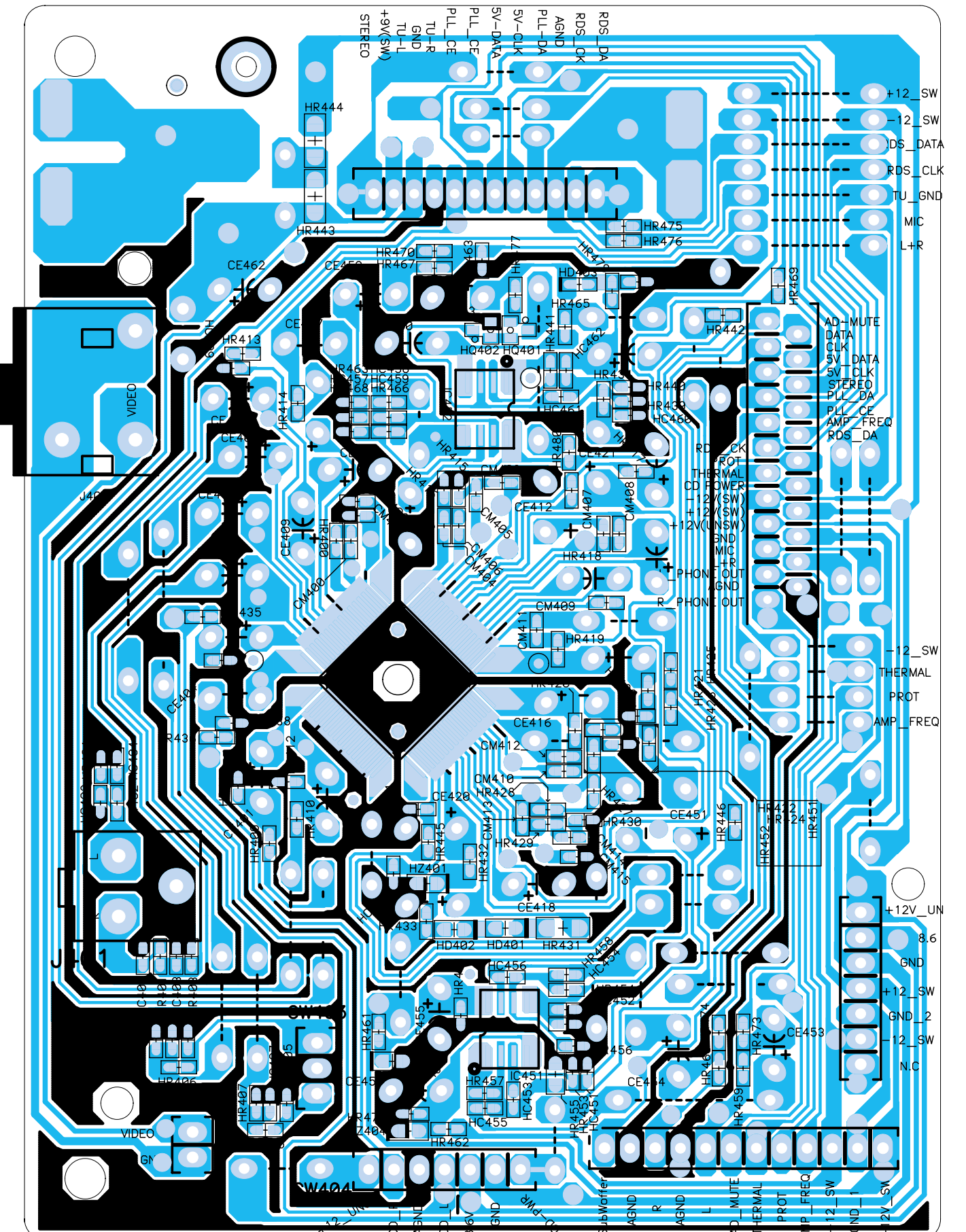
● FRONT : XG-645/ 646/ 647/ 648/ 6483 Models



● FRONT : XG-645/ 646/ 647/ 648/ 6483 Models

**<Bottom View>**

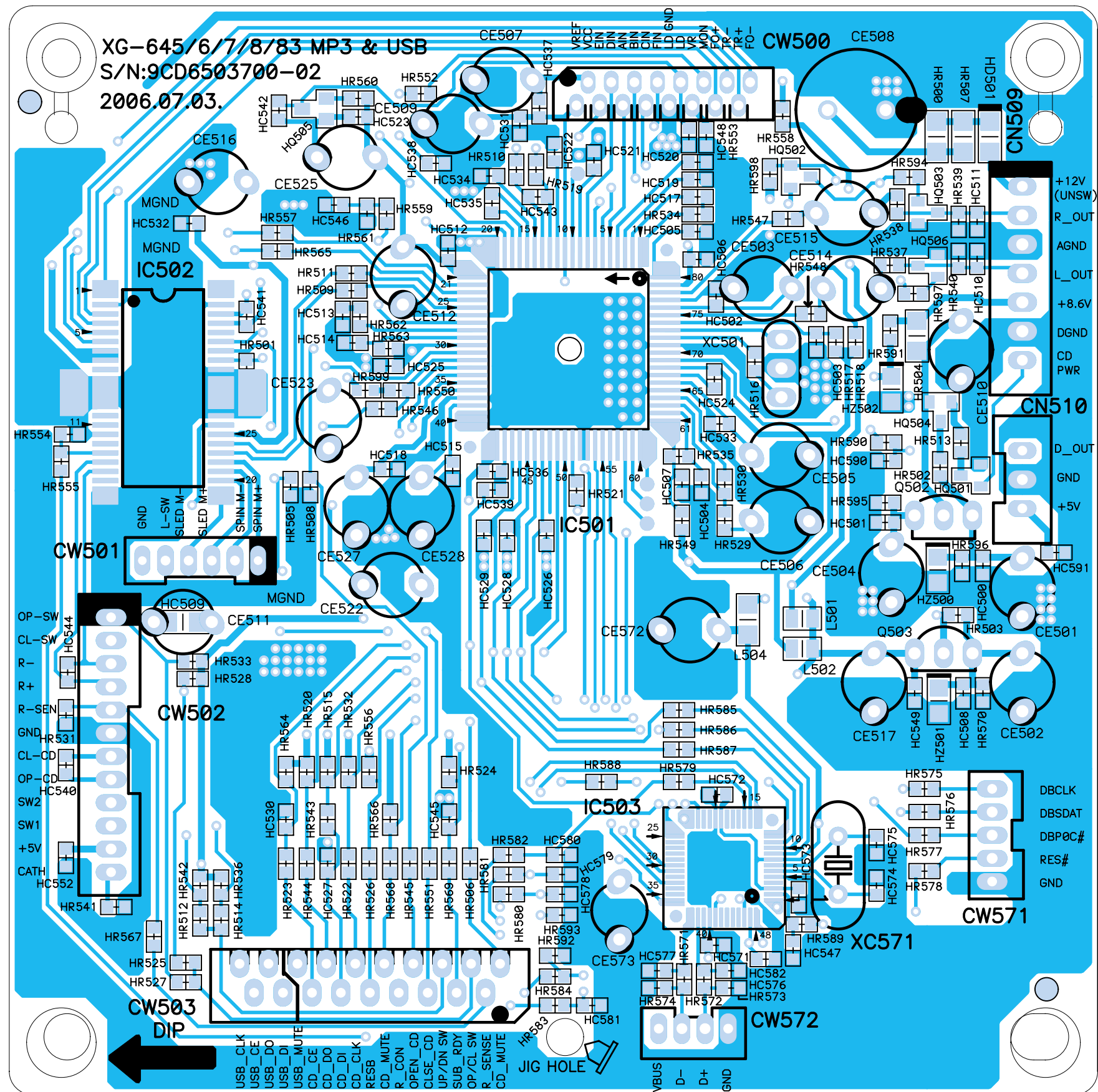




## P.C.B Pattern Layout

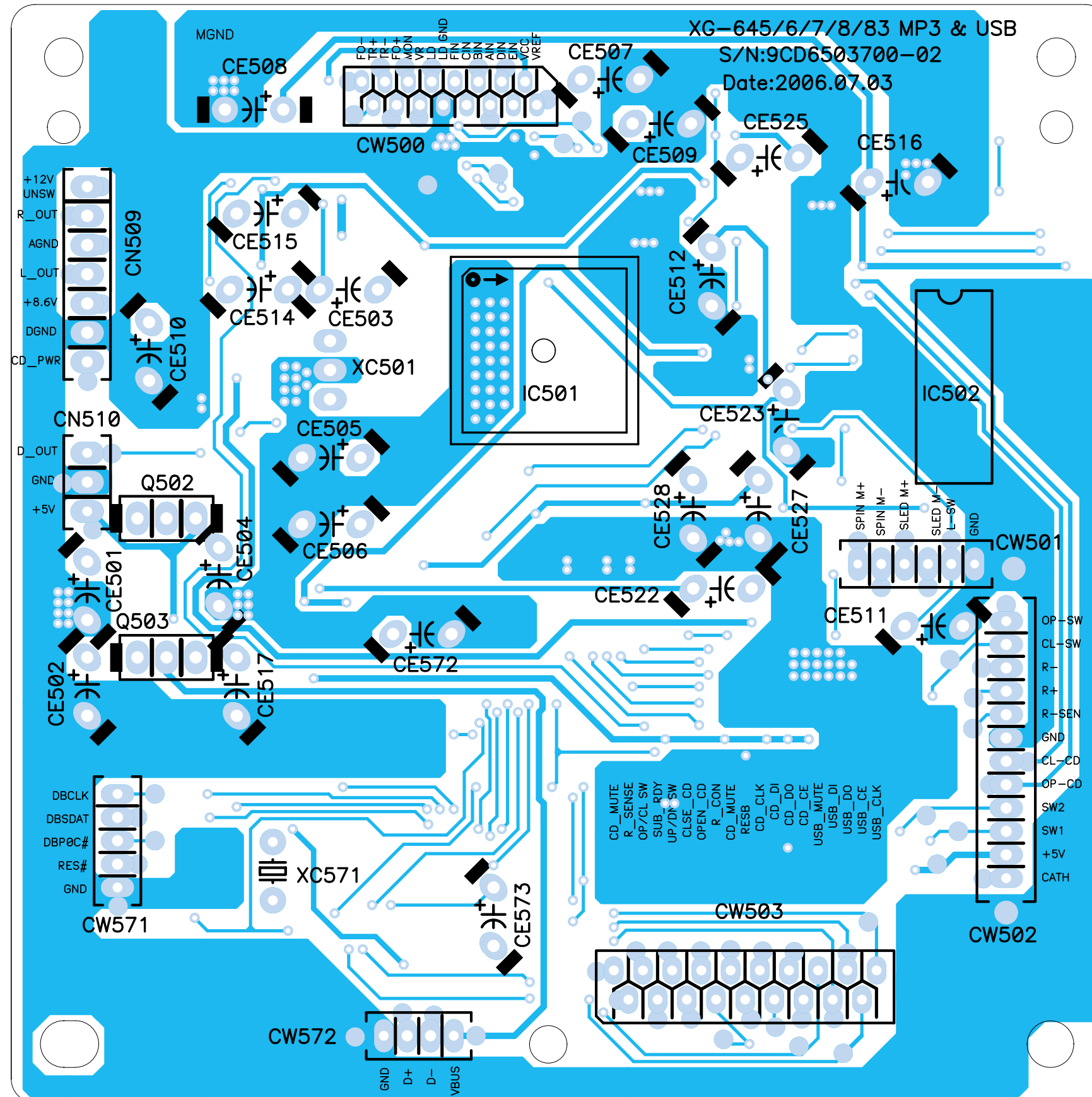
- **MP3 CD : XG-645/ 646/ 647/ 648/ 6483 Models**

**<Top View>**



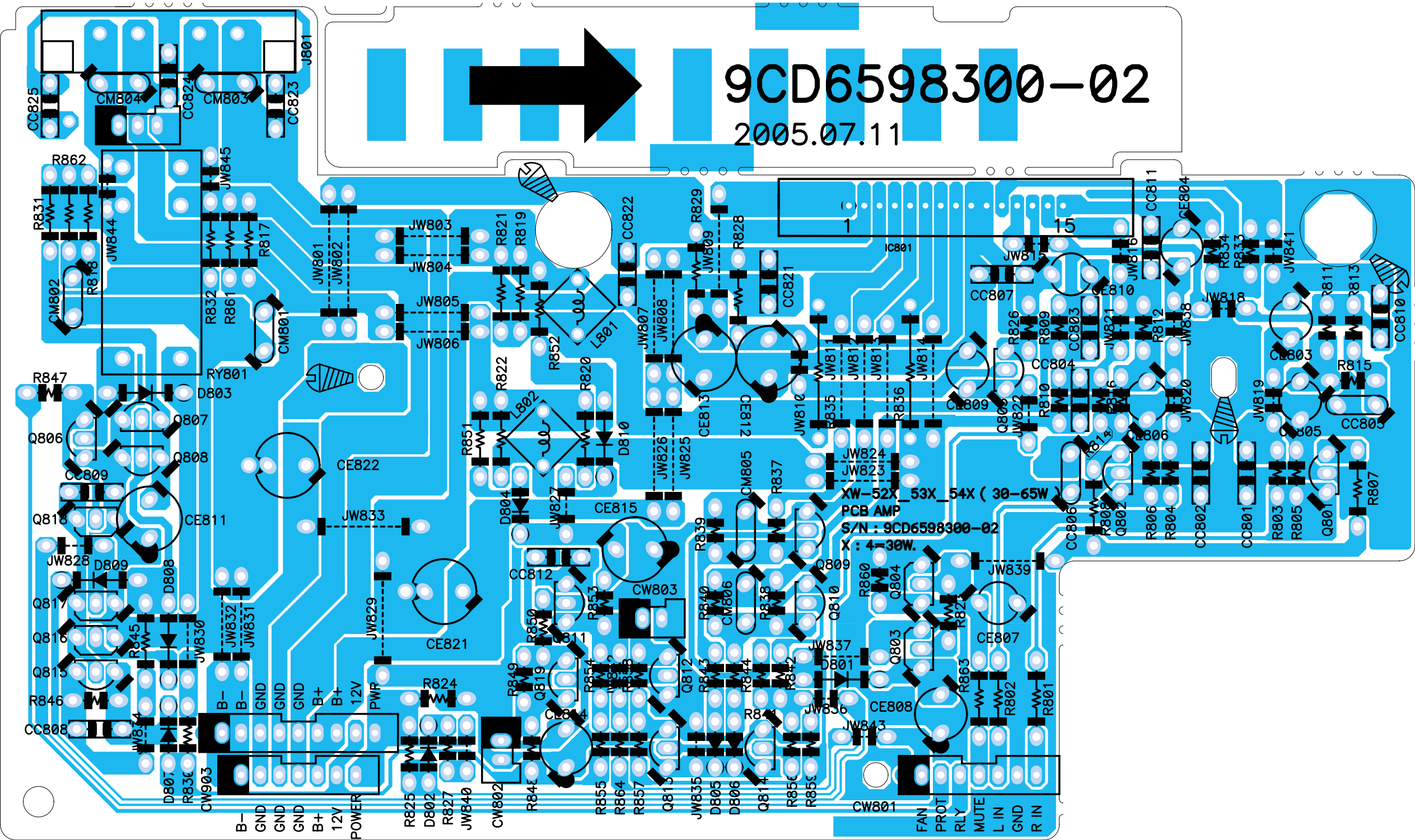
- **MP3 CD : XG-645/ 646/ 647/ 648/ 6483 Models**

**<Bottom View>**



P.C.B Pattern Layout

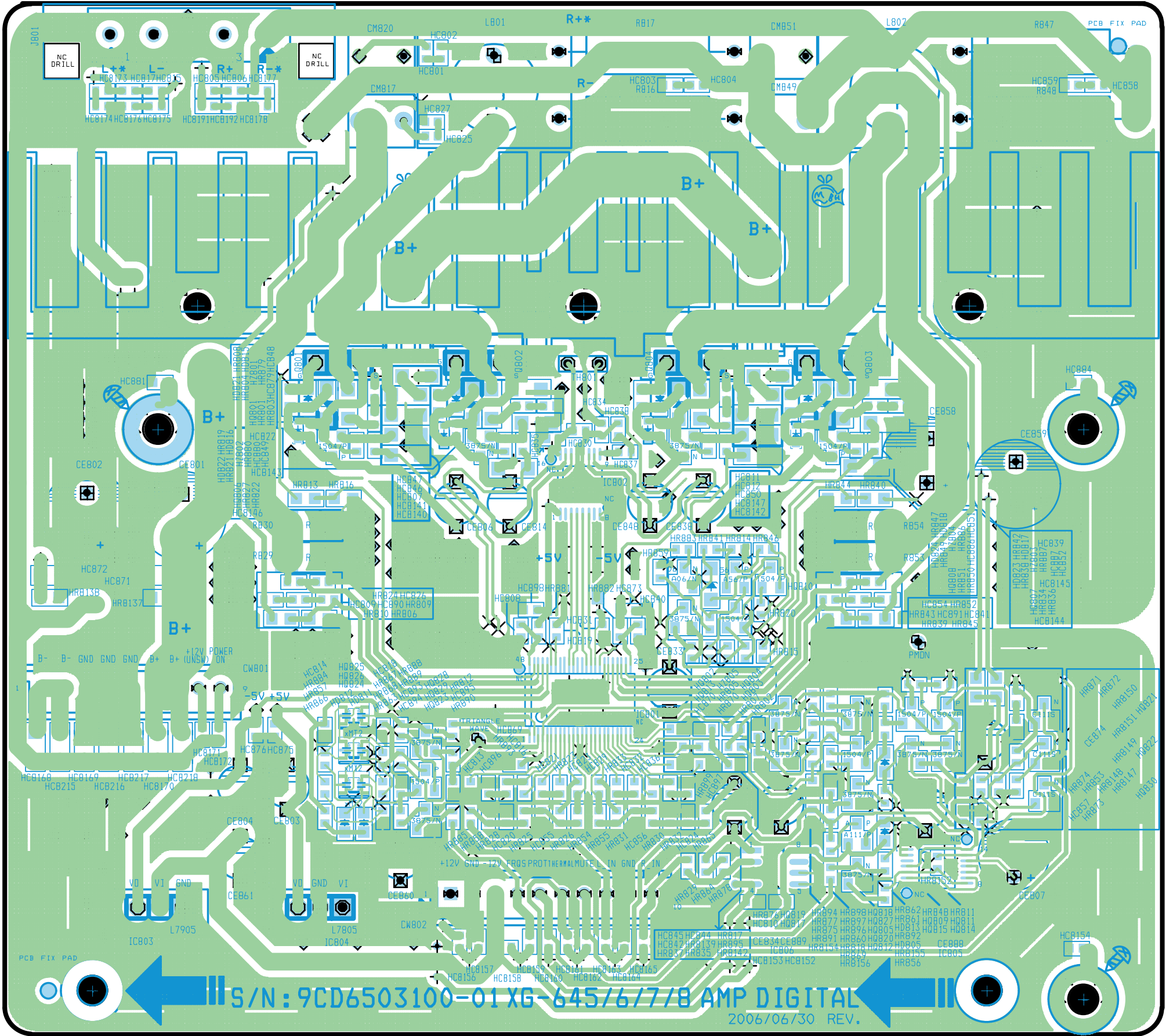
● AMP : XG-645 Model Only



# P.C.B Pattern Layout

● AMP(Class-D) : XG-646/ 647/ 648 Models

<Top View>

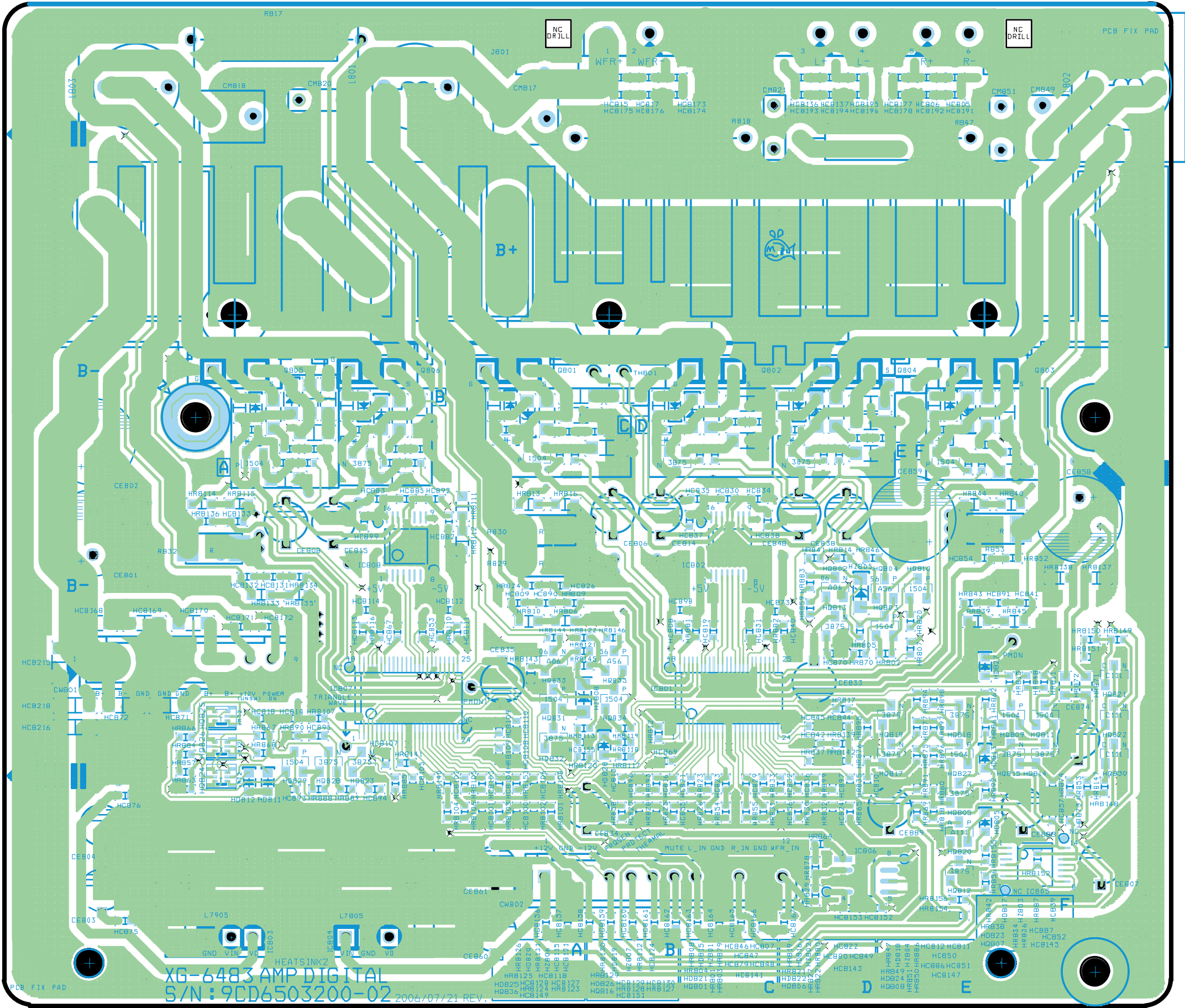


● AMP(Class-D) : XG-646/ 647/ 648 Models

# P.C.B Pattern Layout

● AMP(Class-D) : XG-6483 Model Only

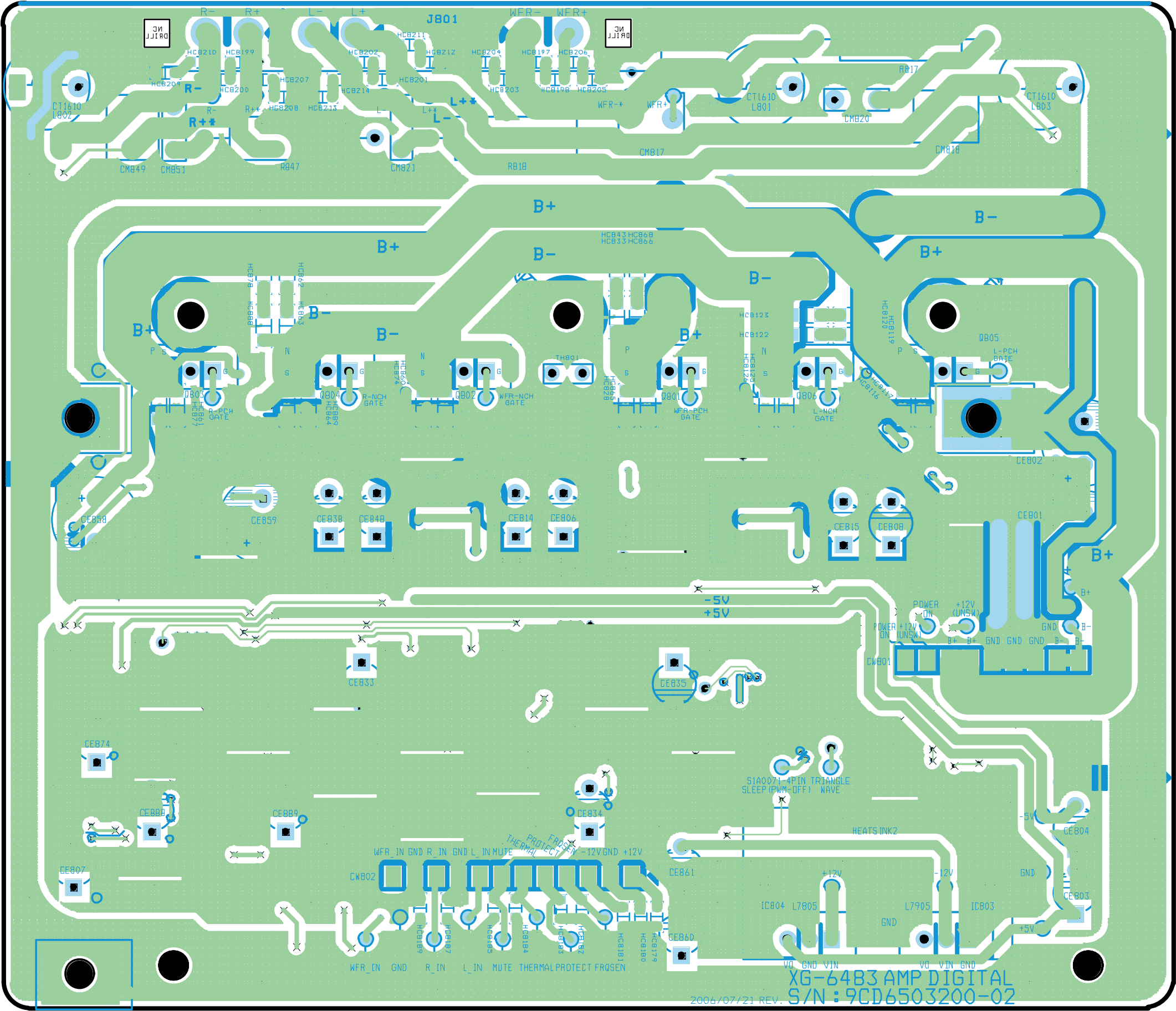
<Top View>



P.C.B Pattern Layout

● AMP(Class-D) : XG-6483 Model Only

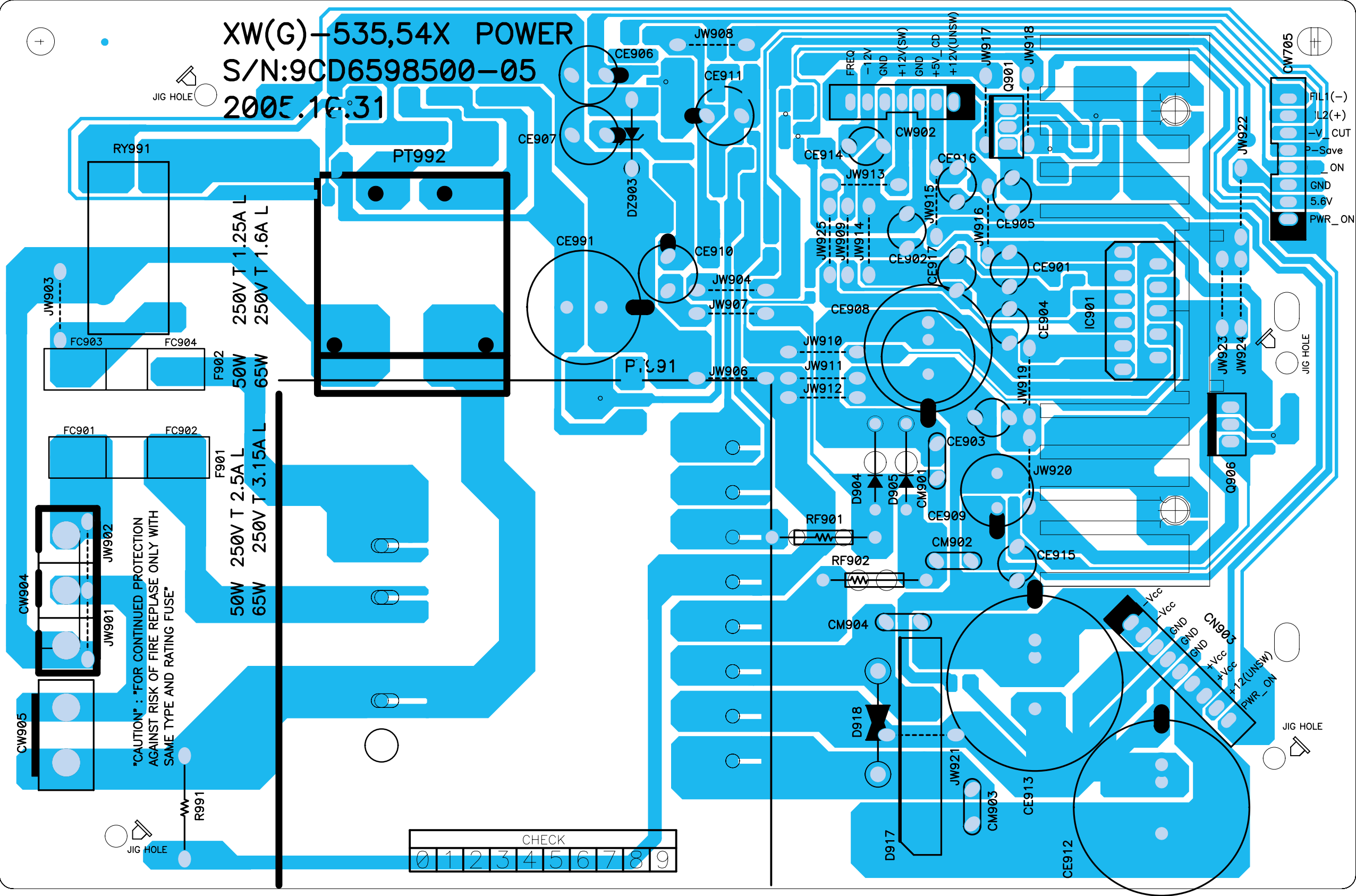
<Bottom View>



P.C.B Pattern Layout

● POWER : XG-645 Model only

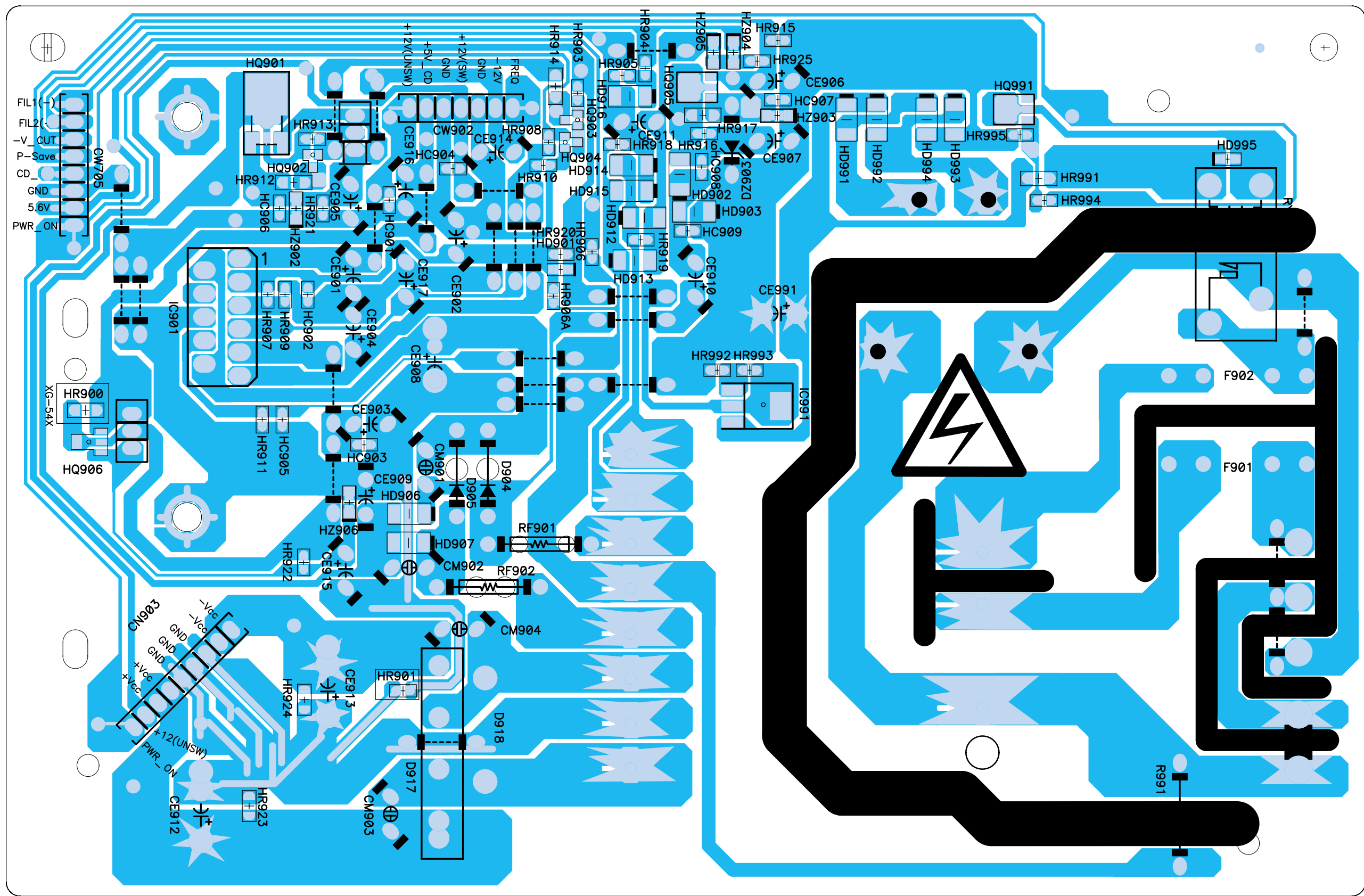
<Top View>



P.C.B Pattern Layout

● POWER : XG-645 Model only

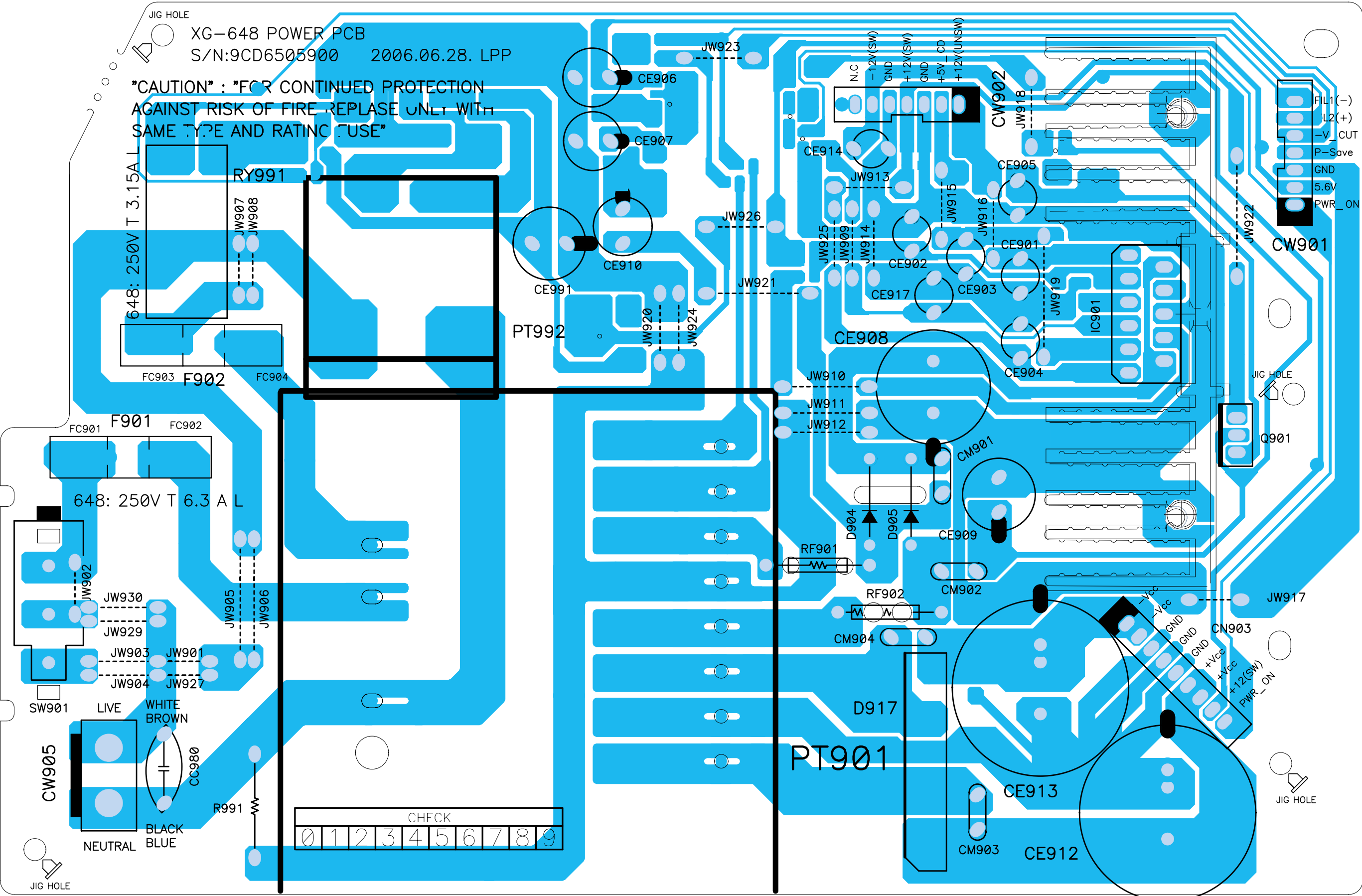
<Bottom View>



P.C.B Pattern Layout

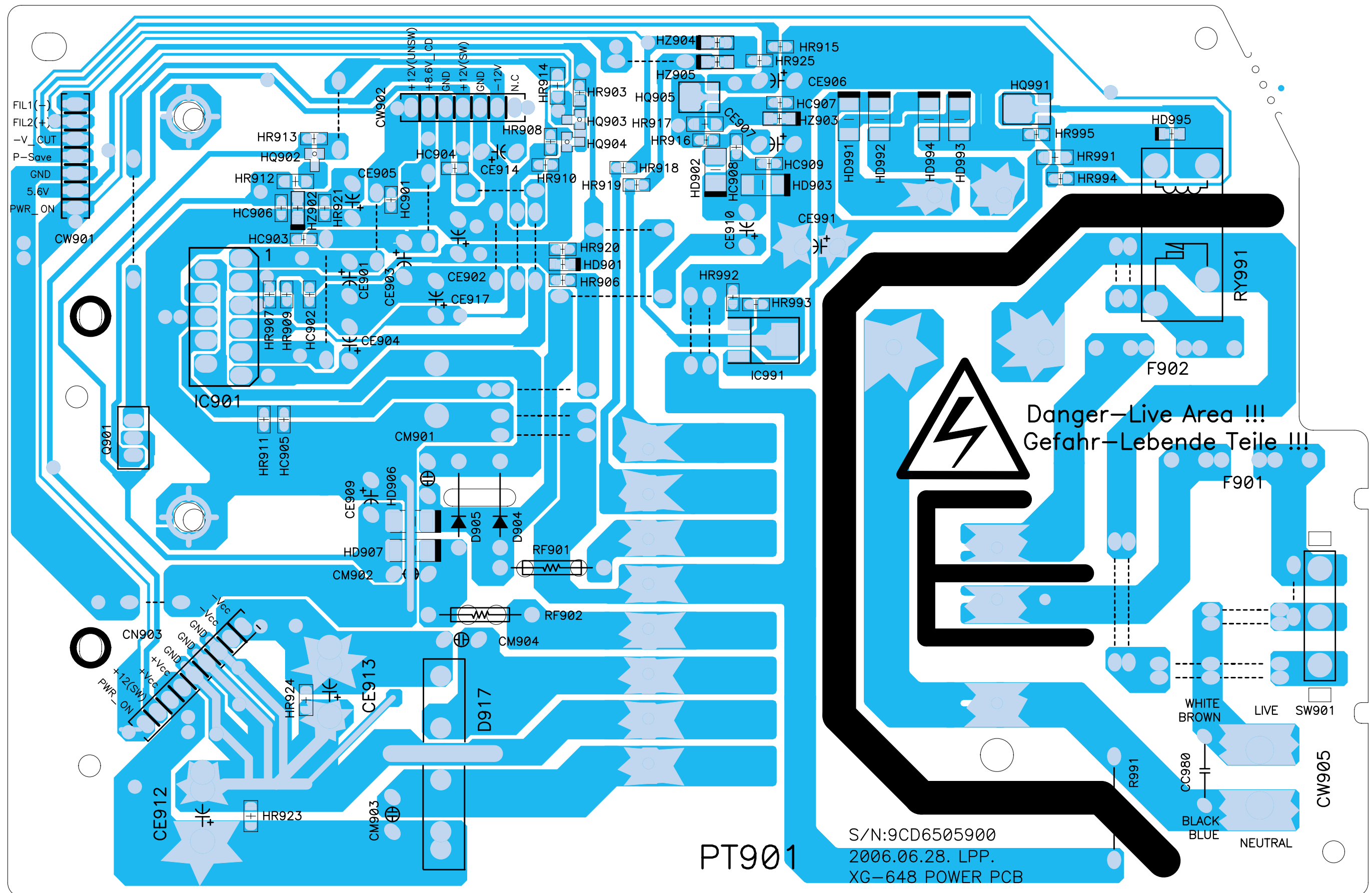
● POWER : XG-648 Model only

<Top View>



● **POWER : XG-648 Model only**

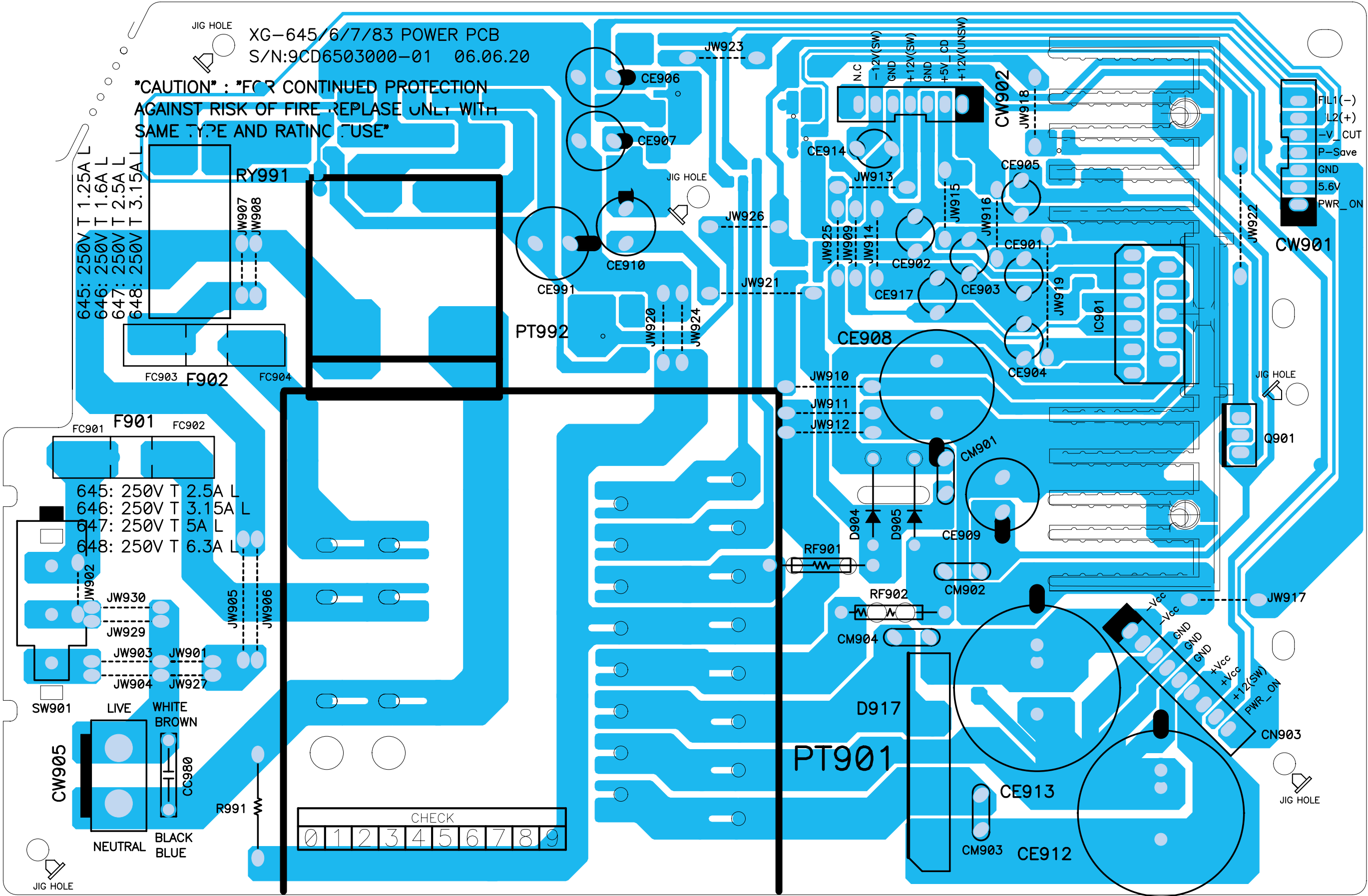
### <Bottom View>



P.C.B Pattern Layout

● POWER : XG-646/ 647/ 6483 Models

<Top View>



● POWER : XG-646/ 647/ 6483 Models

**<Bottom View>**

