

# SERVICE MANUAL

**MODEL:CDMIX USB**



## SPECIFICATION

### CD FUNCTION

- PITCH & PITCH BEND----- $\pm 4\%$ ,  $\pm 8\%$ ,  $\pm 16\%$ ,  $\pm 100\%$  Speed Control, PITCH BEND  $\pm 16\%$  Speed Control.
- SEARCH-----Pressing this button to turn on the SEARCH function.
- CUE-----Press the button will return to the cue point. Holding down the button will start playback from this point.
- TIME-----Switches the display between elapsed time/remaining time/total remaining time.
- SINGLE-----Press this button to toggle between Single Play or Continuous Play.
- PROGRAM-----Helps you create a program – a sequence of tracks to play continuously.
- CUE-----Returns and pauses the music at the last set cue point.
- PLAY/PAUSE-----Plays or pauses the track.
- LOOP IN/OUT/RELOOP-----These buttons are used to define your beginning and ending loop points (LOOP IN and LOOP OUT) or to replay or restart your loop (RELOOP).
- TRACK-----Turn this knob to select a track to play.
- TAP-----Press the button once to activate Auto BPM mode. Press the TAP button repeatedly in time with the beats of the music on that deck to enter Manual BPM mode. To go back to AUTO BPM mode, hold the button for 2 seconds.
- SCRATCH-----Activates or deactivates Scratch Mode.
- SEARCH-----Activates or deactivates Search Mode.
- REVERSE-----Press this button to reverse playback of the track.
- BRAKE-----Press this button to activate braking.
- SOURCE-----Press to select USB A, USB B, or CD audio source.
- EJECT-----Press this button to open or close the CD disc tray.

## MIXER FUNCTION

- 1.INPUT-----RCA (LINE/PHONO Unbalance) x 2 pair  
1/4" TRS JACK (MIC) x 1 pair
- 2.OUTPUT-----RCA (MASTER/MASTER1) x 2 pair  
1/4" TRS JACK (MASTER Balance) x 1 pair  
1/4" TRS JACK (PHONE) x 1 pair  
1/8" JACK (PHONE) x 1 pair
- 3.GAIN,LINE FADER,MASTER-----CONTROL VOLUME
- 4.CROSS FADER-----CONTROL CH1 OR CH3 OUTPUT
- 5.CUE,CUE GAIN,CUE MIX-----SELECT CUE FORM CH1.2.3,CUE VOLUME,CONTROL CUE OR MASTER
- 6.TREBLE,MID,BASS-----CONTROL EQ +12~ -28Db
- 7.7 segment meter LED's for each channel and separate 2x7 segment for master

## STANDARD

- OUTPUT LEVEL-----7.0±0.5 Vrms (1KHz 0dB)
- S/N RATIO-----MORE THAN 70dB
- FREQUENCY RESPONSE-----20Hz~20KHz±2 dB
- CHANNEL BALANCE-----±2dB
- HARMONIC DISTORTION-----LESS THAN 0.09%

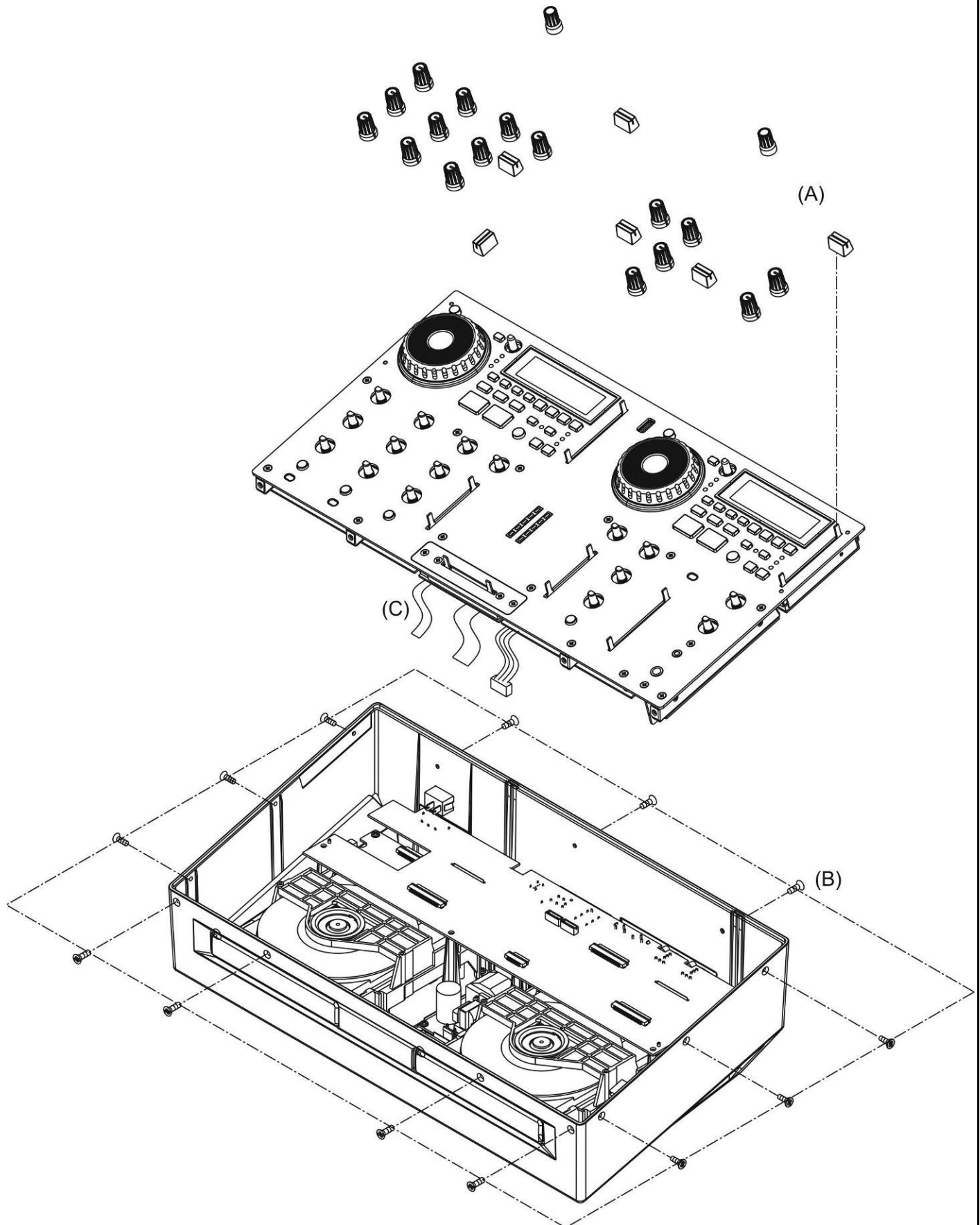
## DISASSEMBLY PROCEDURES

### 1. REMOVAL OF KNOB AND VR CAP AND PANEL ASSEMBLY. (Fig1)

(A) REMOVE THE 18 PCS KNOB AND 6 PCS VR CAP FROM OF PANEL.

(B) REMOVE THE 13 PCS SCREWS FROM OF BOTTOM CHASSIS.

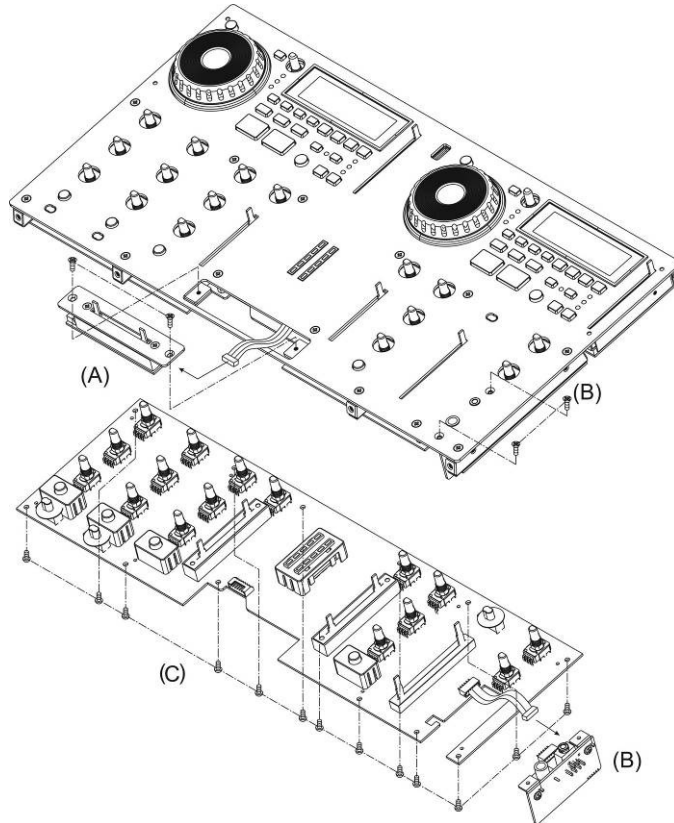
(C) REMOVE THE 3 PCS CONNECTORS BEFORE REMOVAL OF PANEL ASSEMBLY.



**Fig.1**

## **2.REMOVAL OF CROSS FADER PCB AND HEADPHONE PCB AND MIXER PCB ASSEMBLY. (Fig.2)**

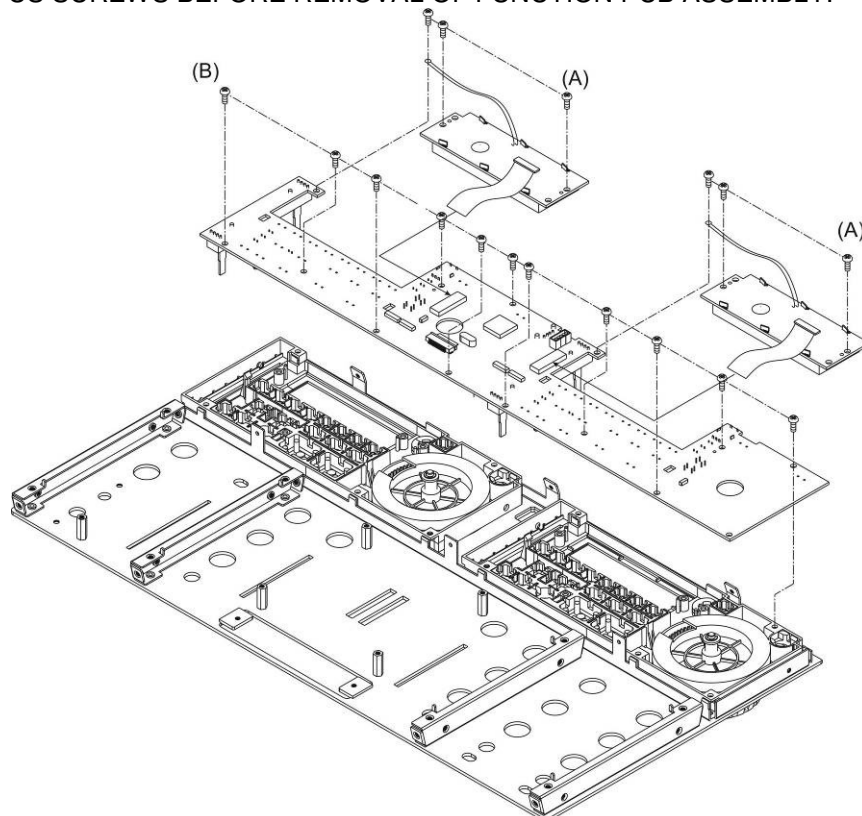
- (A) REMOVE THE 2 PCS SCREWS AND 1 PC CONNECTOR BEFORE REMOVAL OF CROSS FADER PCB ASSEMBLY.
- (B) REMOVE THE 2 PCS SCREWS AND 1 PC CONNECTOR BEFORE REMOVAL OF HEADPHONE PCB ASSEMBLY.
- (C) REMOVE THE 13 PCS SCREWS BEFORE REMOVAL OF MIXER PCB ASSEMBLY.



**Fig.2**

## **3.MOVAL OF LCM PCB AND FUNCTION PCB ASSEMBLY.(Fig.3)**

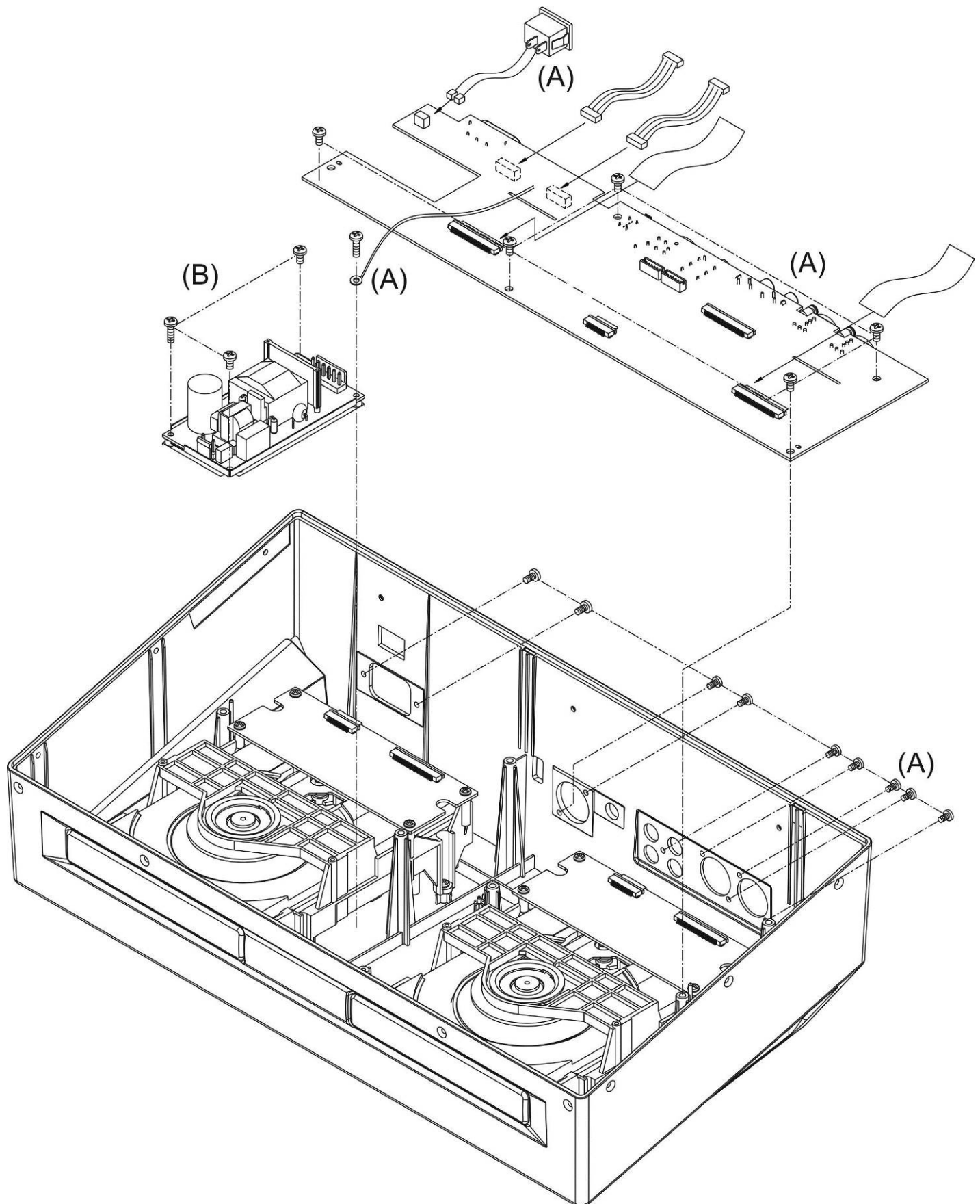
- (A) REMOVE THE 6 PCS SCREWS AND 2 PCS CONNECTORS BEFORE REMOVAL OF LCM ASSEMBLY.
- (B) REMOVE THE 11 PCS SCREWS BEFORE REMOVAL OF FUNCTION PCB ASSEMBLY.



**Fig.3**

#### 4.REMOVAL OF SWITCHING POWER PCB AND MAIN PCB ASSEMBLY .(Fig4)

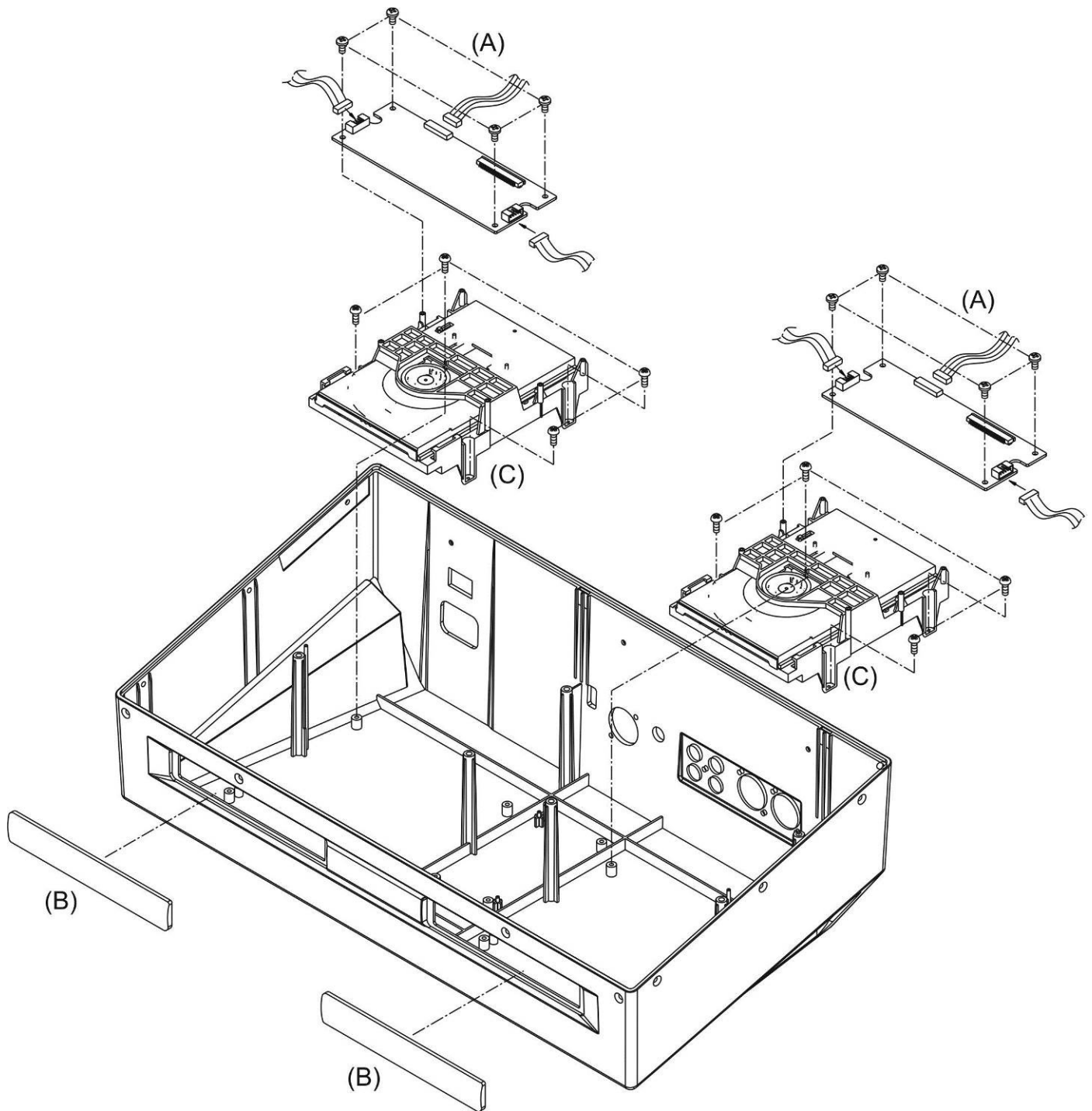
(A) REMOVE THE 15 PCS SCREWS AND 5 PCS CONNECTORS BEFORE REMOVAL OF MAIN PCB ASSEMBLY.  
(B) REMOVE THE 3 PCS SCREWS BEFORE REMOVAL SWITCHING POWER PCB ASSEMBLY.



**Fig.4**

### 5.REMOVAL OF SERVO PCB AND CM-H12 ASSEMBLY.(Fig5)

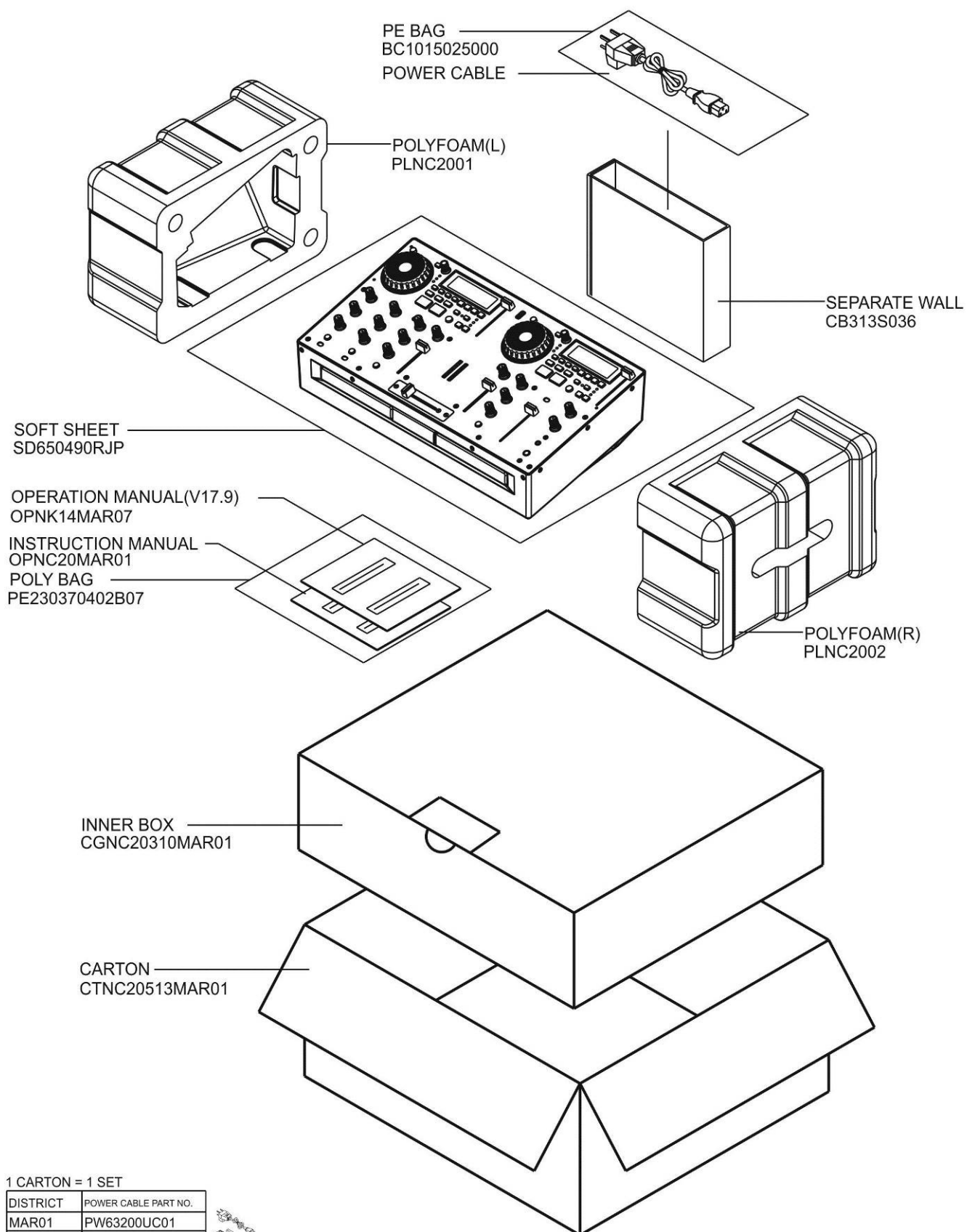
- (A) REMOVE THE 8 PCS SCREWS AND 6 PCS CONNECTORS BEFORE REMOVAL 2 PCS SERVO PCB ASSEMBLY.
- (B) REMOVE THE 2 PCS FRONT PANEL FROM THE BOTTOM CHASSIS.
- (C) REMOVE THE 8 PCS SCREWS BEFORE REMOVAL CM-H12



**Fig.5**

# PACKING DIAGRAM

~NC20MAR01~03/06~09~



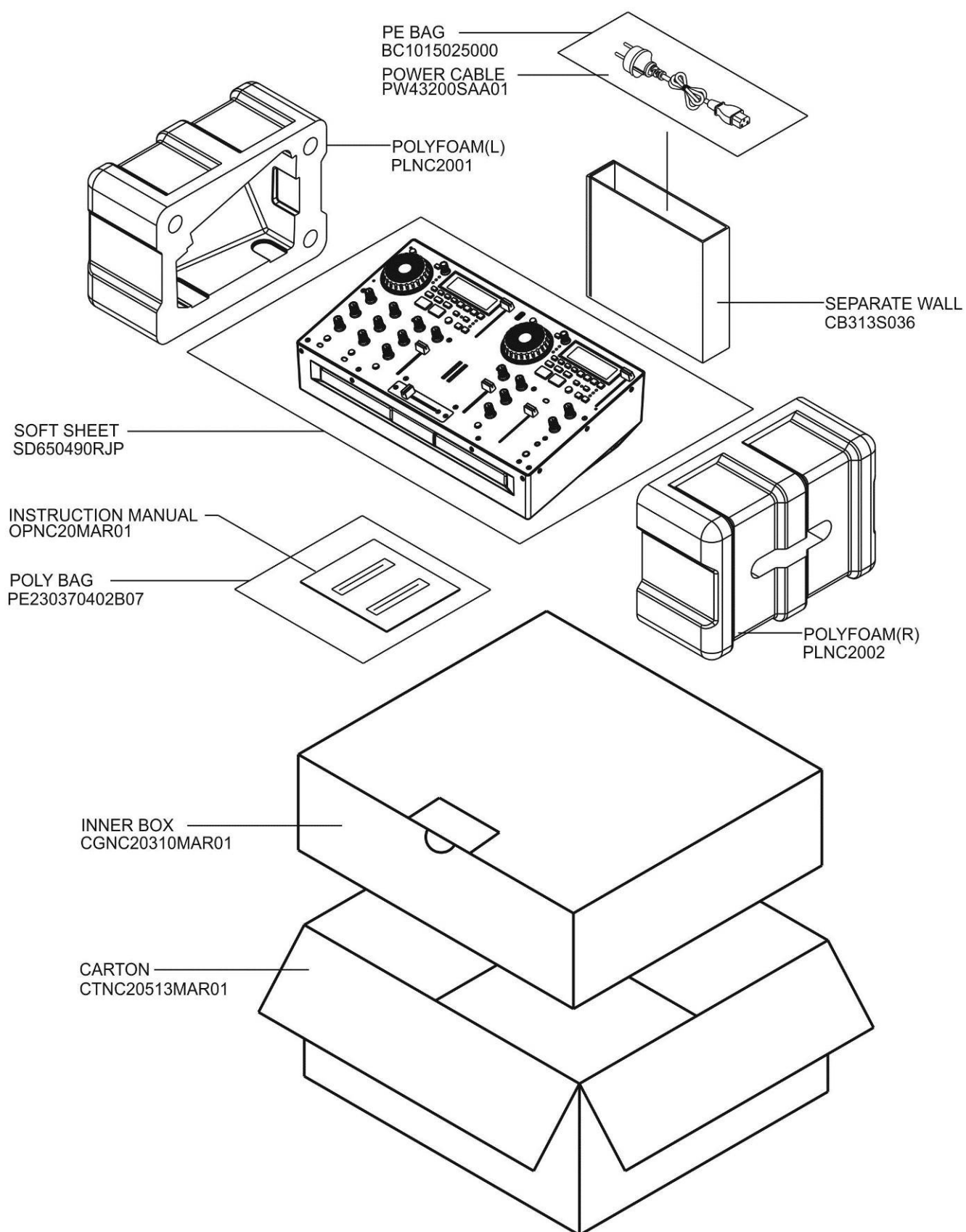
1 CARTON = 1 SET

| DISTRICT | POWER CABLE PART NO. |
|----------|----------------------|
| MAR01    | PW63200UC01          |
| MAR02    | UP301-104            |
| MAR03    | PW53200UK03          |
| MAR06    | PW33200KS01          |
| MAR07    | PW22200JIS02         |
| MAR08    | PW43200SAA01         |
| MAR09    | PW33150BRA01         |

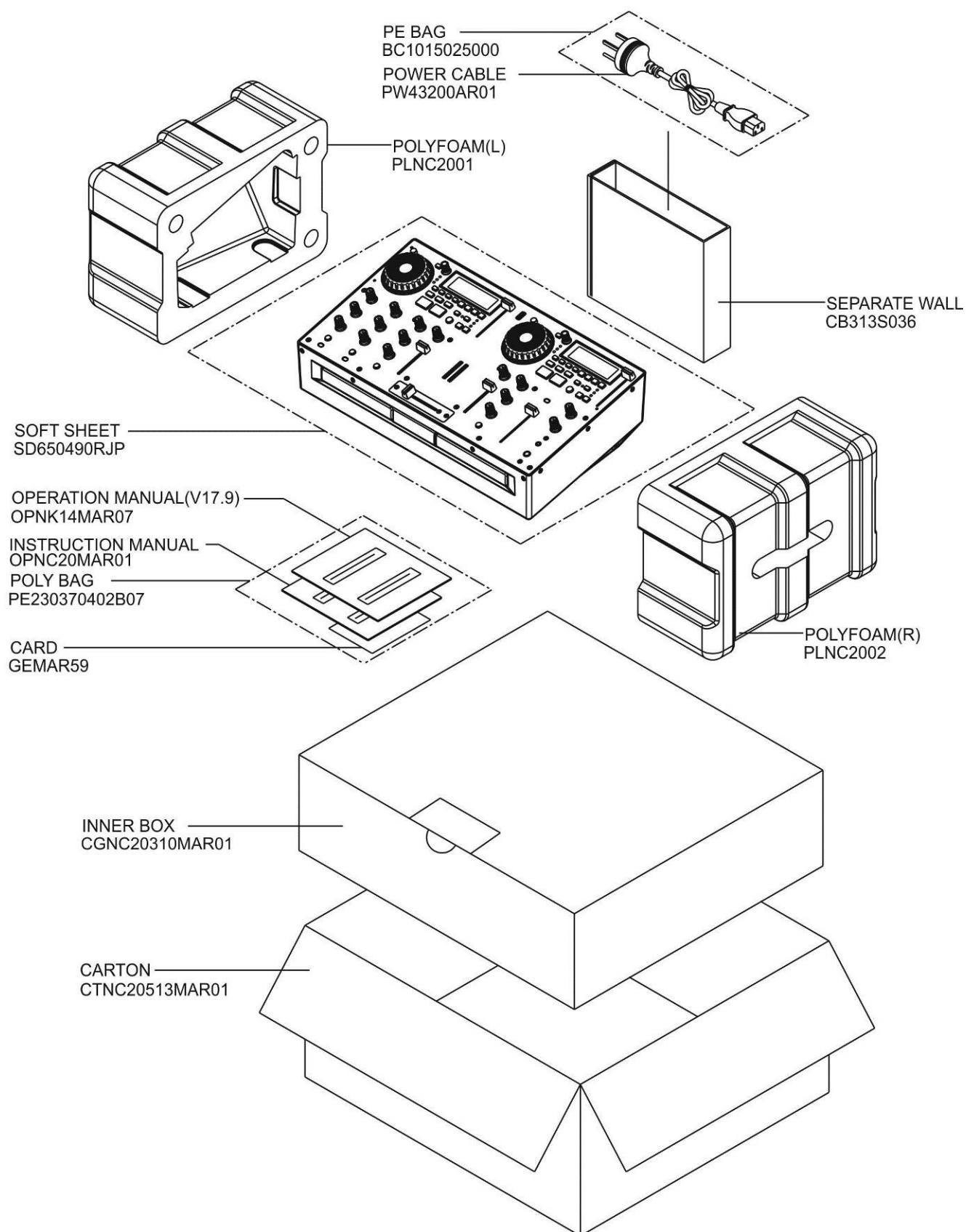


# PACKING DIAGRAM

## NC20MAR04

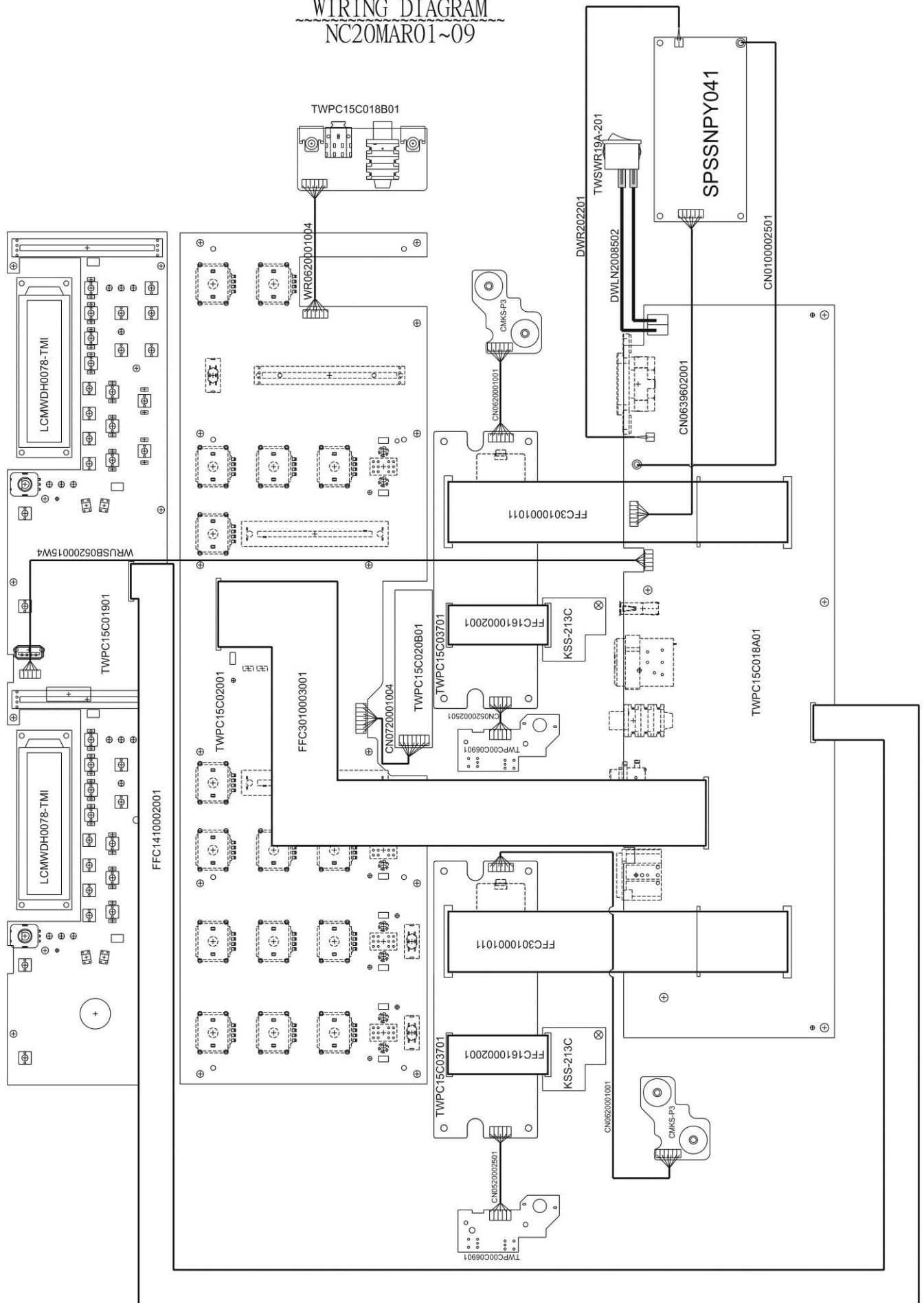


# PACKING DIAGRAM ~~~~~ NC20MAR05



1 CARTON = 1 SET

WIRING DIAGRAM  
NC20MAR01~09





# NC20MAR01~09 BOM

| LEVEL | P/N            | DESCRIPTION                                          | QTY | REF |
|-------|----------------|------------------------------------------------------|-----|-----|
| 0.1   | BAGL-55A       | CABLE CLIP 55L                                       | 3   | 56  |
| 0.1   | BASV-N019      | VR Cap                                               | 6   | 2   |
| 0.1   | BAW-0348       | Washer                                               | 2   | 16  |
| 0.1   | BAW-1065       | WASHER                                               | 2   | 13  |
| 0.1   | CMH12YAH01     | CM-H12                                               | 2   | 33  |
| 0.1   | CN0100001013   | Flat Cable GND Wire Black φ3.                        | 2   |     |
| 0.1   | CN0520002501   | Flat Cable Multicolored 5P Pit                       | 2   | 53  |
| 0.1   | CN0620001001   | Flat Cable 6Pin Pitch 2.0mm Si                       | 2   | 54  |
| 0.1   | CN0639602001   | Flat Cable 6Pin Pitch 3.96mm S                       | 1   | 55  |
| 0.1   | ERE73          | E Ring 3mm                                           | 2   | 17  |
| 0.1   | EVA0104406     | EVA                                                  | 1   | 62  |
| 0.1   | EVA0604404     | EVA                                                  | 2   | 34  |
| 0.1   | FFC1410002001  | FFC 14Pin Pitch:1.0mm Length:2                       | 1   | 50  |
| 0.1   | FFC1610002001  | CONNECTOR                                            | 2   | 51  |
| 0.1   | FFC3010001011  | FFC 30Pin Pitch:1.0mm Length:1                       | 2   | 57  |
| 0.1   | FFC3010003001  | FFC 30Pin Pitch:1.0mm Length:3                       | 1   | 52  |
| 0.1   | K46-1          | Cable Tie                                            | 1   | 60  |
| 0.1   | LAC22MAR1042   | Serial Number Label                                  | 1   | 49  |
| 0.1   | LAC32MAR252    | INDICATEN LABEL(CS) (05)                             | 1   | 65  |
| 0.1   | LAC42MAR350    | LABEL (05)                                           | 1   | 64  |
| 0.1   | LAP62MAR342    | Label (07)                                           | 1   | 64  |
| 0.1   | LAC53MAR1061   | Warning Label                                        | 1   | 48  |
| 0.1   | LAC62MAR1043   | Bar Code Label                                       | 2   |     |
| 0.1   | LAC62MAR1044   | Bar Code Label(CODE 39) (01)                         | 1   |     |
| 0.1   | LAC63MAR1059   | TUV SUD Label (01)                                   | 1   | 63  |
| 0.1   | LAC52MAR254    | WARNING LABEL (05)                                   | 1   | 63  |
| 0.1   | LAC67MAR303    | SAFETY LABEL (06)                                    | 1   | 63  |
| 0.1   | LAC51MAR1065   | PSE Warning Label (07)                               | 1   | 63  |
| 0.1   | LAC67MAR681    | Label(Circle Limpid)                                 | 2   |     |
| 0.1   | LAC67YAH261    | Label φ8mm Green                                     | 1   |     |
| 0.1   | LCMWDH0078-TMI | Liquid Crystal Display Module                        | 2   | 21  |
| 0.1   | MT0605507      | BRASS                                                | 2   | 15  |
| 0.1   | MT11044191     | Fixed Holder                                         | 4   | 30  |
| 0.1   | MT1105555      | Copper                                               | 2   | 39  |
| 0.1   | MT1105584      | Copper                                               | 5   | 24  |
| 0.1   | MT11300147101  | Panel(Printing & Painting)                           | 1   | 9   |
| 0.1   | MT1130015101   | Plate(CROSS FADER)Painting                           | 1   | 6   |
| ..2   | MT11300151     | Plate(CROSS FADER)                                   | 1   |     |
| 0.1   | NM1104412      | VELVET CARPET                                        | 19  | 25  |
| 0.1   | NM1106118      | Velvet Carpet                                        | 3   | 12  |
| 0.1   | NM1106125      | Velvet Carpet                                        | 3   | 61  |
| 0.1   | NP206YAH124    | NAME PLATE                                           | 2   | 4   |
| 0.1   | NP211MAR177    | Isolate Plate                                        | 1   | 38  |
| 0.1   | PNC20MAR01     | Pack Assembly (01)                                   | 1   |     |
|       | PNC20MAR02     | Pack Assembly (02)                                   | 1   |     |
|       | PNC20MAR03     | Pack Assembly (03)                                   | 1   |     |
|       | PNC20MAR04     | Pack Assembly (04)                                   | 1   |     |
|       | PNC20MAR05     | Pack Assembly (05)                                   | 1   |     |
|       | PNC20MAR06     | Pack Assembly (06)                                   | 1   |     |
|       | PNC20MAR07     | Pack Assembly (07)                                   | 1   |     |
|       | PNC20MAR08     | Pack Assembly (08)                                   | 1   |     |
|       | PNC20MAR09     | Pack Assembly (09)                                   | 1   |     |
| ..2   | BC1015025000   | Bubble Pad                                           | 1   |     |
| ..2   | CB313S036      | Separate Wall                                        | 1   |     |
| ..2   | CGNC20310MAR01 | Inner Box                                            | 1   |     |
| ..2   | CTNC20513MAR01 | Carton                                               | 1   |     |
| ..2   | GEMAR59        | CARD (05)                                            | 1   |     |
| ..2   | GEMAR90        | Ouarantee Card (09)                                  | 1   |     |
| ..2   | GEMAR91        | Ouarantee Card (09)                                  | 1   |     |
| ..2   | OPNC20MAR01    | Instruction Book                                     | 1   |     |
| ..2   | OPNK14MAR07    | Operation Manual(V17.9) (01)(02)(03)(05)(06)(07)(08) | 1   |     |

|      |                |                                            |    |                                              |
|------|----------------|--------------------------------------------|----|----------------------------------------------|
|      | OPNK14MAR08    | Operation Manual (09)                      | 1  |                                              |
| ..2  | PE230370402B07 | Poly Bag 230*370mm                         | 1  |                                              |
| ..2  | PLNC2001       | Polyfoam(Left)                             | 1  |                                              |
| ..2  | PLNC2002       | Polyfoam(Right)                            | 1  |                                              |
| ..2  | SD650490RJP    | Soft Sheet                                 | 1  |                                              |
| 0.1  | PT060290216    | Panel-Printing(Painting)                   | 2  | 35                                           |
| ..2  | PT0602902      | DECK FRONT PANEL                           | 2  |                                              |
| 0.1  | PT061074303    | Wheel(Painting)                            | 2  | 11                                           |
| ..2  | PT0610743      | ROTATE KNOB                                | 2  |                                              |
| ...3 | MT0605501      | Jog Axis                                   | 2  |                                              |
| 0.1  | PT11044310     | Fixed Holder(Button)                       | 4  | 28                                           |
| 0.1  | PT11044311     | Fixed Holder(Lid)                          | 1  | 26                                           |
| 0.1  | PT11044312     | Fixed Holder                               | 2  | 14                                           |
| 0.1  | PT1110613701   | KNOB                                       | 2  | 1                                            |
| 0.1  | PT1110631102   | Button(Headphone)Printing                  | 4  | 29                                           |
| ..2  | PT11106311     | Button (CUE)                               | 4  |                                              |
| 0.1  | PT11106555     | Light Pipe(5)                              | 2  | 27                                           |
| 0.1  | PT1130311401   | Bottom Chassis(Printing & Pain             | 1  | 46                                           |
| ..2  | PT11303114     | Bottom Chassis                             | 1  |                                              |
| 0.1  | PW63200UC01    | Ac Power Supply Cord Long 2.0m UL+CSA (01) | 1  |                                              |
|      | UP301-104      | AC Power Supply Cord Long 1.83m EU (02)    |    |                                              |
|      | PW53200UK03    | AC Power Supply Cord Long 2.0m UK (03)     |    |                                              |
|      | PW43200SAA01   | AC Power Supply Cord Long 2.0m SAA (04)    |    |                                              |
|      | PW43200AR01    | AC Power Supply Cord Long 2.0m AR (05)     |    |                                              |
|      | PW33200KS01    | AC Power Supply Cord Long 2.0m KS (06)     |    |                                              |
|      | PW22200JIS02   | AC Power Supply Cord Long 2.0m JIS (07)    |    |                                              |
|      | PW43200SAA01   | AC Power Supply Cord Long 2.0m SAA(08)     |    |                                              |
|      | PW33150BRA01   | AC Power Supply Cord Long 1.5M BRA(09)     |    |                                              |
| 0.1  | RU0610621401   | RUBBER KNOB (EJECT)                        | 2  | 19                                           |
| 0.1  | RU0610622401   | Rubber Button(FUNCTION KEY)                | 2  | 20                                           |
| 0.1  | RU06106227     | Rubber Button                              | 2  | 18                                           |
| 0.1  | RU1130734      | Rubber Foot                                | 4  | 47                                           |
| 0.1  | SC0306FIBI     | SCREW M3X6 PFB                             | 19 | 5                                            |
| 0.1  | SC0308FBBI     | Screw M3X8 PFB Tapping                     | 13 | 7                                            |
| 0.1  | SC0308RBNI     | Screw M3X8 PRN Tapping                     | 36 | 22                                           |
| 0.1  | SC0308RIBI     | Screw M3X8 PPB                             | 2  | 59                                           |
| 0.1  | SC0308RINI     | SCREW M3X8 PPN                             | 13 | 32                                           |
| 0.1  | SC0310PBBI     | SCREW M3X10 PPB TAPPING                    | 7  | 43                                           |
| 0.1  | SC0314PBNI     | Screw M3X14 PPN Tapping                    | 2  | 36                                           |
| 0.1  | SC0408PBBI     | SCREW M4X08 PPB TAPPING                    | 5  | 58                                           |
| 0.1  | SPSSNPY041     | SWITCHING POWER(INTERNAL) 5V/3             | 1  | 37                                           |
| 0.1  | TWPT1110650201 | Knob(STDV)Assembly                         | 16 | 3                                            |
| ..2  | PT11106502     | Knob(STDV)                                 | 16 |                                              |
| ..2  | PT11106503     | Decoretive(STDV)                           | 16 |                                              |
| ..2  | PT1130042      | Knob Deck(STDV)                            | 16 |                                              |
|      |                |                                            |    |                                              |
| 0.1  | TWSWR19A-201   | Power switch ASS'Y                         | 1  | 45                                           |
| ..2  | DWLN2008502    | BROWN WIRE                                 | 1  |                                              |
| ..2  | K46-1          | Cable Tie                                  | 1  |                                              |
| ..2  | SWR19A-2       | Power Switch                               | 1  |                                              |
|      |                |                                            |    |                                              |
| 0.1  | TWPC15C01801   | Main PCB Assembly                          | 1  |                                              |
| ..2  | PC15C018       | Main PCB                                   | 1  |                                              |
| ..2  | TWPC15C018A01  | Main PCB Assembly                          | 1  | 44                                           |
| ...3 | AL4-05-0028    | JACK XLR 3-PIN FEM STEREO-COMB             | 1  | MIC500                                       |
| ...3 | CN0100002501   | Flat Cable GND Wire Y/G φ4.3               | 1  | CN400                                        |
| ...3 | CS100J5003NPO  | CCAP SMD 10pF/50V 5% 0603 NPO              | 2  | C514,554                                     |
| ...3 | CS101J5003NPO  | CCAP SMD 100pF/50V 5% 0603 NPO             | 8  | C500,506,526,530,541,550~552                 |
| ...3 | CS102K5003X7R  | CCAP SMD 1nF/50V 10% 0603 X7R              | 10 | C414A,414B,415A,415B,510,519,524,536,543,555 |
| ...3 | CS103K5003X7R  | CCAP SMD 0.01uF/50V 10% 0603 X7R           | 15 | C226,228,237~242,244,306~311                 |

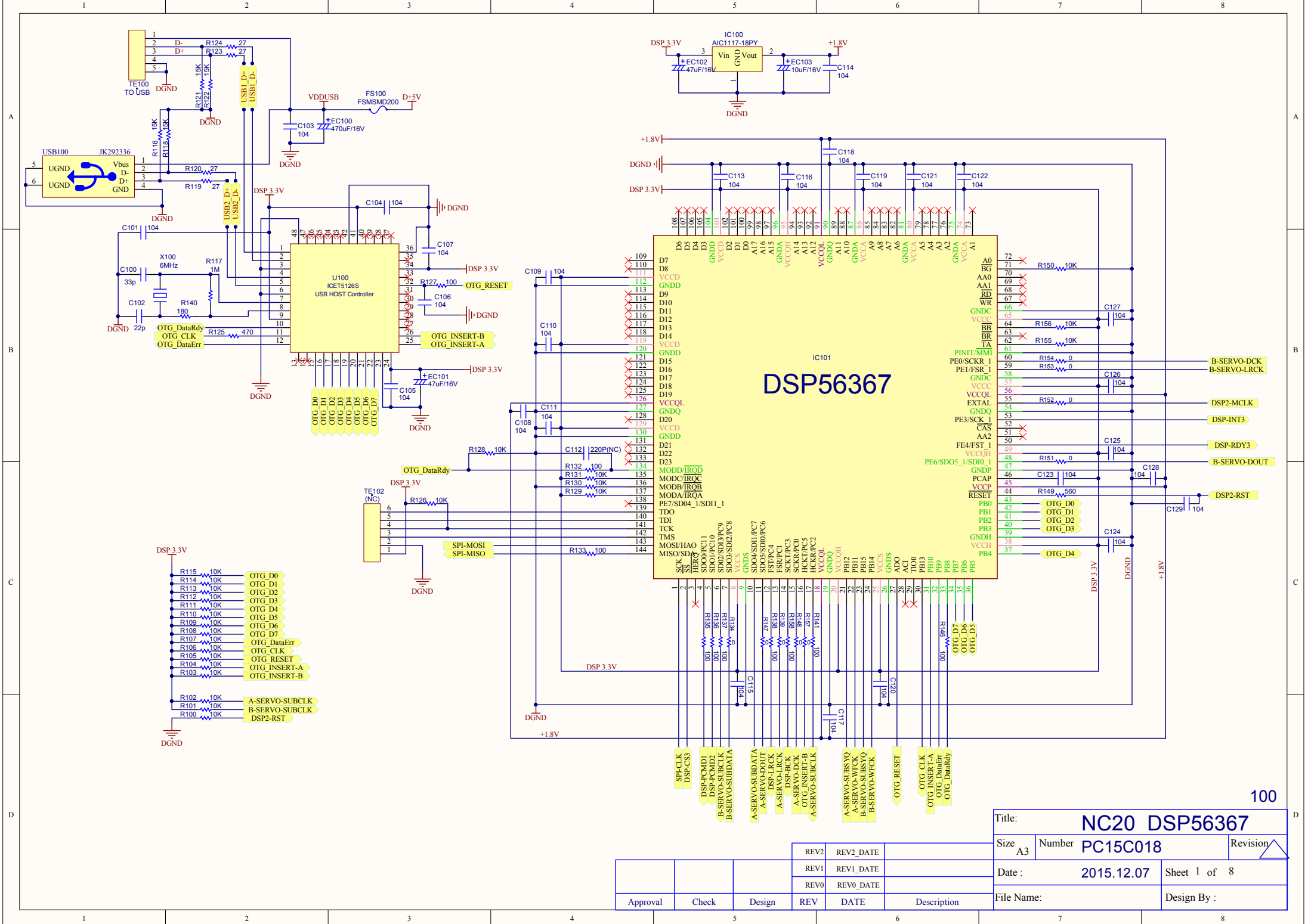
|      |                 |                                             |    |                                                                                                                                               |
|------|-----------------|---------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------|
| ...3 | CS104K5003X7R   | CCAP SMD 0.1uF/50V 10% 0603 X7R             | 83 | C101,103~111,113~129,200~214,217~225,227,229~236,243,245,303~305,401A,401B,402A,402B,420,432,433,509,515,517,518,529,532,537,545,547,553,CC01 |
| ...3 | CS105K1603X7R   | CCAP SMD 1uF/16V 10% 0603 X7R               | 14 | C400~403,403A,403B,407A,407B,408A,408B,409A,409B,413A,413B                                                                                    |
| ...3 | CS106K1003X5R   | CCAP SMD 10uF 10% 10V 0603 X5R              | 1  | C246                                                                                                                                          |
| ...3 | CS150J5003NPO   | CCAP SMD 15pF/50V 5% 0603 NPO               | 9  | C130,405A,405B,406A,406B,410A,410B,411A,411B                                                                                                  |
| ...3 | CS220J5003NPO   | CCAP SMD 22pF/50V 5% 0603 NPO               | 3  | C102,215,216                                                                                                                                  |
| ...3 | CS300J5003NPO   | CCAP SMD 30pF/50V 5% 0603 NPO               | 10 | C301,302,421~428                                                                                                                              |
| ...3 | CS330J5003NPO   | CCAP SMD 33pF/50V 5% 0603 NPO               | 1  | C100                                                                                                                                          |
| ...3 | CS331J5003NPO   | CCAP SMD 330pF/50V 5% 0603 NPO              | 6  | C512,513,504,507,558,559                                                                                                                      |
| ...3 | CS471J5003NPO   | CCAP SMD 470pF/50V 5% 0603 NPO              | 4  | C404A,404B,412A,412B                                                                                                                          |
| ...3 | DIEN1N4148WSM   | Diode SMD                                   | 6  | D404,405,501~504                                                                                                                              |
| ...3 | DIEN1SR154400SM | Rectifier Diode 1SR154-400 SOD              | 4  | D400~403                                                                                                                                      |
| ...3 | DWR202201       | Red Wire 220mm                              | 1  | TE400                                                                                                                                         |
| ...3 | EC10825         | Capacitor Electrolytic 1000uF/25V           | 3  | EC402~404                                                                                                                                     |
| ...3 | EC33725TLE      | Capacitor Electrolytic low ESR 330uF/25V    | 4  | EC400,401,405,406                                                                                                                             |
| ...3 | EC47616T        | Capacitor Electrolytic 47uF/16V             | 4  | EC500~502,504                                                                                                                                 |
| ...3 | EC47716T        | Capacitor Electrolytic 470uF/16V            | 1  | EC100                                                                                                                                         |
| ...3 | ECS10616B       | Capacitor Electrolytic 10uF/16V             | 8  | EC103,200,205,206,403A,403B,516,517                                                                                                           |
| ...3 | ECS10625BLE     | ECAP Low ESR 10UF/25V 4*5.4mm               | 3  | EC514,518,519                                                                                                                                 |
| ...3 | ECS10716D       | Capacitor Electrolytic 100uF/16V            | 4  | EC300,302,420,429                                                                                                                             |
| ...3 | ECS22616C       | Capacitor Electrolytic 22uF/16V             | 4  | EC401A,401B,402A,402B                                                                                                                         |
| ...3 | ECS22725F       | E CAP 220UF/25V 8*10MM SMD                  | 1  | EC515                                                                                                                                         |
| ...3 | ECS47550B       | ECAP 4.7UF/50V 4*5.3MM SMD                  | 1  | EC301                                                                                                                                         |
| ...3 | ECS47616D       | Capacitor Electrolytic 47uF/16V             | 15 | EC101,102,202~204,503,505~513                                                                                                                 |
| ...3 | FCN1T1001402    | FCN DOWN Touch ZIF SMD Pitch=1.0mm          | 1  | FCN400                                                                                                                                        |
| ...3 | FCN1T1003001    | FCN Down Touch ZIF SMD Pitch=1.0mm          | 3  | FCN300,301,500                                                                                                                                |
| ...3 | FSMSMD200       | Fuse PTC MSMD200 8V/2A SMD                  | 1  | FS100                                                                                                                                         |
| ...3 | ICAIC1117-18PY  | IC AIC1117-18PY                             | 1  | IC100                                                                                                                                         |
| ...3 | ICAIC809N46PU   | IC AIC809N46PU                              | 1  | IC302                                                                                                                                         |
| ...3 | ICAP7165SPG     | IC AP7165-SPG-13                            | 1  | IC205                                                                                                                                         |
| ...3 | ICBA033FP       | IC BA033FP                                  | 1  | IC204                                                                                                                                         |
| ...3 | ICBA05FP        | IC BA05FP                                   | 1  | U421                                                                                                                                          |
| ...3 | ICBA4558F       | IC BA4558F                                  | 4  | IC502~505                                                                                                                                     |
| ...3 | ICDA1191F       | IC DA1191F                                  | 2  | IC401A,401B                                                                                                                                   |
| ...3 | ICDRV602        | IC DRV602                                   | 2  | IC402A,402B                                                                                                                                   |
| ...3 | ICDSPB56724AG   | IC DSPB56724AG                              | 1  | IC201                                                                                                                                         |
| ...3 | ICK4S281632I    | IC K4S281632I                               | 1  | IC206                                                                                                                                         |
| ...3 | ICKIA7808API    | IC KIA7808API                               | 2  | IC400,401                                                                                                                                     |
| ...3 | ICSN74LV373APWR | IC SN74LV373APWR                            | 2  | IC202,203                                                                                                                                     |
| ...3 | ICSN74LVC3G14   | IC SN74LVC3G14                              | 4  | IC303~306                                                                                                                                     |
| ...3 | ICTL072CPWR     | IC TL072CPWR                                | 1  | IC500                                                                                                                                         |
| ...3 | ICXCBDSP56367   | IC XCBDSP56367                              | 1  | IC101                                                                                                                                         |
| ...3 | ICYH104C13      | IC YH104C13 (MX25L8006EM2I+Program)         | 1  | IC200                                                                                                                                         |
| ...4 | ICMX25L8006EM2I | IC MX25L8006EM2I-12G                        | 1  | -                                                                                                                                             |
| ...3 | ICYH2K09C01M    | IC YH2K09C01M (MASK ET5126-YA+PROGRAM LQFP) | 1  | U100                                                                                                                                          |
| ...3 | ICYH2K270       | IC YH2K270 (TMP86FS49BFG+Program)           | 1  | IC301                                                                                                                                         |
| ...4 | ICMP86FS49BFG-1 | IC TMP86FS49BFG Blank                       | 1  | -                                                                                                                                             |
| ...3 | JK292336-1      | USB A TYPE Jack 90°                         | 1  | USB100                                                                                                                                        |
| ...3 | JK40861323322   | RCA JACK 4Pin 90°                           | 1  | J501                                                                                                                                          |
| ...3 | JK6L0670CBKA6A  | 6.4φ Phone JACK 7PIN 90° Fem                | 1  | MIC501                                                                                                                                        |
| ...3 | JK7TU-301-AP    | AC JACK 3P 90° PIN                          | 1  | JK400                                                                                                                                         |
| ...3 | JKLX-1601HR-3   | XLR JACK 3PIN 90° MALE                      | 2  | J502,504                                                                                                                                      |
| ...3 | RS000004J06     | RESISTOR 0Ω 5% SMD 1206                     | 1  | R400                                                                                                                                          |
| ...3 | RS000010J03     | RESISTOR 0Ω 5% SMD 0603                     | 13 | R134,139,147,148,151~154,157,502,510,569,576                                                                                                  |
| ...3 | RS001K10F03     | RESISTOR 1K 1% SMD 0603                     | 8  | R252,512,519,530,543,555,564,584                                                                                                              |
| ...3 | RS001M10F03     | RESISTOR 1M 1% SMD 0603                     | 3  | R117,248,320                                                                                                                                  |
| ...3 | RS002710F03     | RESISTOR 27Ω 1% SMD 0603                    | 4  | R119,120,123,124                                                                                                                              |
| ...3 | RS002K10F03     | RESISTOR 2K 1% SMD 0603                     | 1  | R253                                                                                                                                          |

|      |                      |                                   |          |                                                                                                                                                                          |
|------|----------------------|-----------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ...3 | RS010010F03          | RESISTOR 100Ω 1% SMD 0603         | 48       | R127,132,133,135~138,141,146,158,200,213,216~223,225,230,246,321,322,327,329,330,332,344,348,349,402A,402B,412A,412B,413A,413B,501,505,508,515~517,520,522,560,562       |
| ...3 | RS010K10F03          | RESISTOR 10K 1% SMD 0603          | 88       | R100~115,126,128~131,150,155,156,201~212,224,226,233,243~245,247,250,301~306,309,310,313~319,323,325,326,328,331,333~343,345~347,500,507,518,526,532,535,552,556,559,567 |
| ...3 | RS015010F03          | RESISTOR 150Ω 1% SMD 0603         | 16       | R227~229,231,239~242,401A,401B,403A,403B,404A,404B,405A,405B                                                                                                             |
| ...3 | RS015K10F03          | RESISTOR 15K 1% SMD 0603          | 4        | R116,118,121,122                                                                                                                                                         |
| ...3 | RS018010F03          | RESISTOR 180Ω 1% SMD 0603         | 1        | R140                                                                                                                                                                     |
| ...3 | RS022010F03          | RESISTOR 220Ω 1% SMD 0603         | 8        | R214,215,234,235,420~423                                                                                                                                                 |
| ...3 | RS027010F03          | RESISTOR 270Ω 1% SMD 0603         | 1        | R324                                                                                                                                                                     |
| ...3 | RS02K710F03          | RESISTOR 2.7K 1% SMD 0603         | 2        | R557,563                                                                                                                                                                 |
| ...3 | RS036K10F03          | RESISTOR 36K 1% SMD 0603          | 4        | R407A,407B,410A,410B                                                                                                                                                     |
| ...3 | RS047010F03          | RESISTOR 470Ω 1% SMD 0603         | 1        | R125                                                                                                                                                                     |
| ...3 | RS047K10F03          | RESISTOR 47K 1% SMD 0603          | 8        | R504,511,534,545,561,571,577,580                                                                                                                                         |
| ...3 | RS056010F03          | RESISTOR 560Ω 1% SMD 0603         | 2        | R149,300                                                                                                                                                                 |
| ...3 | RS05K110F03          | RESISTOR 5.1K 1% SMD 0603         | 2        | R521,568                                                                                                                                                                 |
| ...3 | RS05K610F03          | RESISTOR 5.6K 1% SMD 0603         | 6        | R513,523,528,548,554,565                                                                                                                                                 |
| ...3 | RS062K10F03          | RESISTOR 62K 1% SMD 0603          | 4        | R406A,406B,411A,411B                                                                                                                                                     |
| ...3 | RS068K10F03          | RESISTOR 68K 1% SMD 0603          | 4        | R408A,408B,409A,409B                                                                                                                                                     |
| ...3 | RS100K10F03          | RESISTOR 100K 1% SMD 0603         | 12       | R251,503,506,509,514,524,533,549,558,566,570,573                                                                                                                         |
| ...3 | RS560K10F03          | RESISTOR 560K 1% SMD 0603         | 1        | R585                                                                                                                                                                     |
| ...3 | TE613960601          | 6P CONNECTOR                      | 1        | (TE402)                                                                                                                                                                  |
| ...3 | TE617920201          | 2P CONNECTOR                      | 1        | (TE401)                                                                                                                                                                  |
| ...3 | TR2SA1037ASM         | TRANSISTOR 2SA1037AKR PNP         | 1        | Q509                                                                                                                                                                     |
| ...3 | TR2SD2114KSM         | TRANSISTOR 2SD2114K NPN           | 6        | Q502~507                                                                                                                                                                 |
| ...3 | WRUSB05200015W4      | Shielding Cable USB2.0 5Pin       | 1        | TE100                                                                                                                                                                    |
| ...3 | XTM06000X6           | Crystal 6MHZ 49US SMD Fundamen    | 1        | X100                                                                                                                                                                     |
| ...3 | XTM11289X6           | Crystal 11.2896MHz 49US SMD Fu    | 1        | X200                                                                                                                                                                     |
| ...3 | XTM16000X8           | CRYSTAL 16MHZ S3225A Fundament    | 1        | X301                                                                                                                                                                     |
|      |                      |                                   |          |                                                                                                                                                                          |
| ..2  | <b>TWPC15C018B01</b> | <b>HeadPhone PCB Assembly</b>     | <b>1</b> | <b>10</b>                                                                                                                                                                |
| ...3 | CS101J5003NPO        | CCAP SMD 100pF/50V 5% 0603 NPO    | 4        | C735,736,738,739                                                                                                                                                         |
| ...3 | JK-3537              | 3.5mm Phone Jack 9P 90° DIP       | 1        | JK710                                                                                                                                                                    |
| ...3 | JK6L0670CBKA6A       | 6.4φ Phone JACK 7PIN 90° Fem      | 1        | JK711                                                                                                                                                                    |
| ...3 | MT1104484            | Fixed Plate                       | 2        | -                                                                                                                                                                        |
| ...3 | SC0308RINI           | SCREW M3X8 PPN                    | 2        | -                                                                                                                                                                        |
| ...3 | TE10200601           | 6P CONNECTOR                      | 1        | (TE710)                                                                                                                                                                  |
|      |                      |                                   |          |                                                                                                                                                                          |
| 0.1  | <b>TWPC15C01901</b>  | <b>Function PCB Assembly</b>      | <b>1</b> |                                                                                                                                                                          |
| ..2  | <b>PC15C019</b>      | <b>Function PCB</b>               | <b>1</b> |                                                                                                                                                                          |
| ..2  | <b>TWPC15C019A01</b> | <b>Function PCB Assembly</b>      | <b>1</b> | <b>23</b>                                                                                                                                                                |
| ...3 | BALE48212-0A         | LED                               | 14       | (LED5~9,18,19,30~34,43,44)                                                                                                                                               |
| ...3 | CS101J5003NPO        | CCAP SMD 100pF/50V 5% 0603 NPO    | 8        | C3,8,11,12,14,15,21,24                                                                                                                                                   |
| ...3 | CS103K5003X7R        | CCAP SMD 0.01uF/50V 10% 0603 X7R  | 2        | C19,20                                                                                                                                                                   |
| ...3 | CS104K5003X7R        | CCAP SMD 0.1uF/50V 10% 0603 X7R   | 14       | C1,4~6,13,16,18,22,25,27~31                                                                                                                                              |
| ...3 | CS220J5003NPO        | CCAP SMD 22pF/50V 5% 0603 NPO     | 1        | C23                                                                                                                                                                      |
| ...3 | CS300J5003NPO        | CCAP SMD 30pF/50V 5% 0603 NPO     | 2        | C7,9                                                                                                                                                                     |
| ...3 | CS475K1605X5R        | CCAP SMD 4.7uF/16V 10% 0805 X5R   | 1        | C17                                                                                                                                                                      |
| ...3 | DIRPI-352            | Diode                             | 4        | S1~4                                                                                                                                                                     |
| ...3 | EC10716TS            | Capacitor Electrolytic 100uF/16V  | 1        | EC26                                                                                                                                                                     |
| ...3 | FCN1R1001605         | FCN UP Touch smd Pitch 1.0mm      | 2        | FCN1,2                                                                                                                                                                   |
| ...3 | FCN1T1001401         | FCN Up Touch ZIF SMD Pitch=1.0mm  | 1        | FCN3                                                                                                                                                                     |
| ...3 | IC74HC595            | IC 74HC595                        | 4        | IC2~4,6                                                                                                                                                                  |
| ...3 | ICAIC809N46PU        | IC AIC809N46PU                    | 1        | IC1                                                                                                                                                                      |
| ...3 | ICSN74LVC3G14        | IC SN74LVC3G14                    | 2        | IC7,8                                                                                                                                                                    |
| ...3 | ICYH2K269            | IC YH2K269 (TMP86FS49BFG+Program) | 1        | IC5                                                                                                                                                                      |
| ...4 | ICMP86FS49BFG-1      | IC TMP86FS49BFG Blank             | 1        | -                                                                                                                                                                        |
| ...3 | JK0CU4P04A           | USB Jack A-TPYE USB 180°          | 1        | USB1                                                                                                                                                                     |

|      |                      |                                         |          |                                                                                                                                              |
|------|----------------------|-----------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------|
| ...3 | LDAPHK1608CGCK       | Liquid-emitting Diode Green SM          | 4        | LED20,21,45,46                                                                                                                               |
| ...3 | LDIFR324HD           | LED Red 3M/M                            | 14       | LED5~9,18,19,30~34,43,44                                                                                                                     |
| ...3 | LDKPT-1608SURCK      | Liquid-emitting Diode Red SMD           | 32       | LED1~4,10~17,22~29,35~42,47~50                                                                                                               |
| ...3 | RS000010J03          | RESISTOR 0Ω 5% SMD 0603                 | 4        | R136~139                                                                                                                                     |
| ...3 | RS001M10F03          | RESISTOR 1M 1% SMD 0603                 | 1        | R18                                                                                                                                          |
| ...3 | RS002210F03          | RESISTOR 22Ω 1% SMD 0603                | 4        | R59,133~135                                                                                                                                  |
| ...3 | RS010010F03          | RESISTOR 100Ω 1% SMD 0603               | 1        | R29                                                                                                                                          |
| ...3 | RS010K10F03          | RESISTOR 10K 1% SMD 0603                | 19       | R11~13,23,25,27,30~38,40,56,57,60                                                                                                            |
| ...3 | RS012K10F03          | RESISTOR 12K 1% SMD 0603                | 4        | R123,125,127,129                                                                                                                             |
| ...3 | RS015K10F03          | RESISTOR 15K 1% SMD 0603                | 4        | R116,119,121,122                                                                                                                             |
| ...3 | RS018010F03          | RESISTOR 180Ω 1% SMD 0603               | 36       | R1,3~5,15~17,19~21,24,26,41~46,48~51,63,64~70,73~78                                                                                          |
| ...3 | RS01K510F03          | RESISTOR 1.5K 1% SMD 0603               | 4        | R85~88                                                                                                                                       |
| ...3 | RS020K10F03          | RESISTOR 20K 1% SMD 0603                | 2        | R109,112                                                                                                                                     |
| ...3 | RS022K10F03          | RESISTOR 22K 1% SMD 0603                | 4        | R83,84,113,114                                                                                                                               |
| ...3 | RS027010F03          | RESISTOR 270Ω 1% SMD 0603               | 1        | R6                                                                                                                                           |
| ...3 | RS033010F03          | RESISTOR 330Ω 1% SMD 0603               | 4        | R97,98,131,132                                                                                                                               |
| ...3 | RS036010F03          | RESISTOR 360Ω 1% SMD 0603               | 14       | R7~10,14,28,39,54,55,58,61,62,71,72                                                                                                          |
| ...3 | RS03K310F03          | RESISTOR 3.3K 1% SMD 0603               | 4        | R89~92                                                                                                                                       |
| ...3 | RS03K910F03          | RESISTOR 3.9K 1% SMD 0603               | 8        | R93~96,99~102                                                                                                                                |
| ...3 | RS047K10F03          | RESISTOR 47K 1% SMD 0603                | 4        | R79~82                                                                                                                                       |
| ...3 | RS056010F03          | RESISTOR 560Ω 1% SMD 0603               | 1        | R22                                                                                                                                          |
| ...3 | RS05K610F03          | RESISTOR 5.6K 1% SMD 0603               | 4        | R103~106                                                                                                                                     |
| ...3 | RS06K810F03          | RESISTOR 6.8K 1% SMD 0603               | 4        | R107,108,110,111                                                                                                                             |
| ...3 | RS07K510F03          | RESISTOR 7.5K 1% SMD 0603               | 4        | R115,117,118,120                                                                                                                             |
| ...3 | RS08K210F03          | RESISTOR 8.2K 1% SMD0603                | 4        | R124,126,128,130                                                                                                                             |
| ...3 | SWDC11G              | Switch Rotational Encode 20Pul          | 2        | ENC1,2                                                                                                                                       |
| ...3 | SWEVQ11L05R          | Switch Tact 5mm 160g Horizonta          | 40       | SW2~10,12,14~43                                                                                                                              |
| ...3 | TE10200502           | 5P CONNECTOR                            | 1        | (TE1)                                                                                                                                        |
| ...3 | VRS10306010          | Potentiometer Slide 10KB2 20X6          | 2        | VR1,2                                                                                                                                        |
| ...3 | XTM16000X6           | Crystal 16MHZ 49US SMD Fundame          | 1        | X1                                                                                                                                           |
| ..2  | <b>TWPC15C019B01</b> | <b>Spare PCB Assembly</b>               | <b>1</b> | <b>42</b>                                                                                                                                    |
| ..2  | <b>TWPC15C019C01</b> | <b>Mixer PCB Assembly</b>               | <b>1</b> | <b>31</b>                                                                                                                                    |
| ...3 | AL2-71-0074          | IC TL074 QUAD OPAMP                     | 7        | IC402,403,502,503,602,603,710                                                                                                                |
| ...3 | AL2-72-0339          | IC LM339 ANALOG COMP                    | 4        | IC802,803,805,806                                                                                                                            |
| ...3 | CN0720001004         | Flat Cable 7Pin Pitch 2.0mm Single Row  | 1        | TE501                                                                                                                                        |
| ...3 | CS100J5003NPO        | CCAP SMD 10pF/50V 5% 0603 NPO           | 8        | C401,402,501,502,601,602,701,702                                                                                                             |
| ...3 | CS101J5003NPO        | CCAP SMD 100pF/50V 5% 0603 NPO          | 14       | C419,420,519,520,619,620,719~722,901,902,907,908                                                                                             |
| ...3 | CS102K5003X7R        | CCAP SMD 1nF/50V 10% 0603 X7R           | 6        | C414,416,514,516,614,616                                                                                                                     |
| ...3 | CS104K5003X7R        | CCAP SMD 0.1uF/50V 10% 0603 X7R         | 59       | C403,404,413,415,421~424,503,504,513,515,521~524,603,604,613,615,621~624,703,704,718,723~727,732,733,801,802,805~810,903,904,909,910,915~927 |
| ...3 | CS123K5003X7R        | CCAP SMD 0.012UF/50V 10% 0603 X7R       | 4        | C417,418,617,618                                                                                                                             |
| ...3 | CS183K5003X7R        | CCAP SMD 0.018UF/50V 10% 0603 X7R       | 6        | C408,410,508,510,608,610                                                                                                                     |
| ...3 | CS184K1603X7R        | CCAP SMD 0.18UF/16V 10% 0603 X7R        | 4        | C407,409,607,609                                                                                                                             |
| ...3 | CS272K5003X7R        | CCAP SMD 2.7nF/50V 10% 0603 X7R         | 1        | C717                                                                                                                                         |
| ...3 | DIEN1N4148WSM        | Diode SMD                               | 8        | D710~713,801~804                                                                                                                             |
| ...3 | EC10550TS            | Capacitor Electrolytic 1uF/50V          | 4        | C803,804,811,812                                                                                                                             |
| ...3 | EC10616TS            | Capacitor Electrolytic 10uF/16V         | 8        | C405,406,505,506,605,606,705,706                                                                                                             |
| ...3 | EC10625TL            | Capacitor Electrolytic low-lea 10uF/25V | 1        | C740                                                                                                                                         |
| ...3 | EC10716TS            | Capacitor Electrolytic 100uF/16V        | 4        | C728~731                                                                                                                                     |
| ...3 | EC22616TS            | Capacitor Electrolytic 22uF/16V         | 14       | C425,426,525,526,625,626,734,737,905,906,911~914                                                                                             |
| ...3 | EC22725T             | Capacitor Electrolytic 220uF/25V        | 1        | C741                                                                                                                                         |
| ...3 | EC33550TS            | Capacitor Electrolytic 3.3uF/50V        | 6        | C411,412,511,512,611,612                                                                                                                     |
| ...3 | FCN1T1003001         | FCN Down Touch ZIF SMD Pitch=1.0mm      | 1        | FCN401                                                                                                                                       |
| ...3 | ICBA4558F            | IC BA4558F                              | 7        | IC401,501,601,701,801,901,902                                                                                                                |
| ...3 | ICNJM4556AM          | IC NJM4556AM                            | 2        | IC711,712                                                                                                                                    |
| ...3 | LD-005HLV            | Red LED                                 | 8        | LED901~908                                                                                                                                   |
| ...3 | LDAPHK1608CGCK       | Liquid-emitting Diode Green SMD         | 6        | LED803~805,810~812                                                                                                                           |
| ...3 | LDKPT-1608SURCK      | Liquid-emitting Diode Red SMD           | 2        | LED801,808                                                                                                                                   |

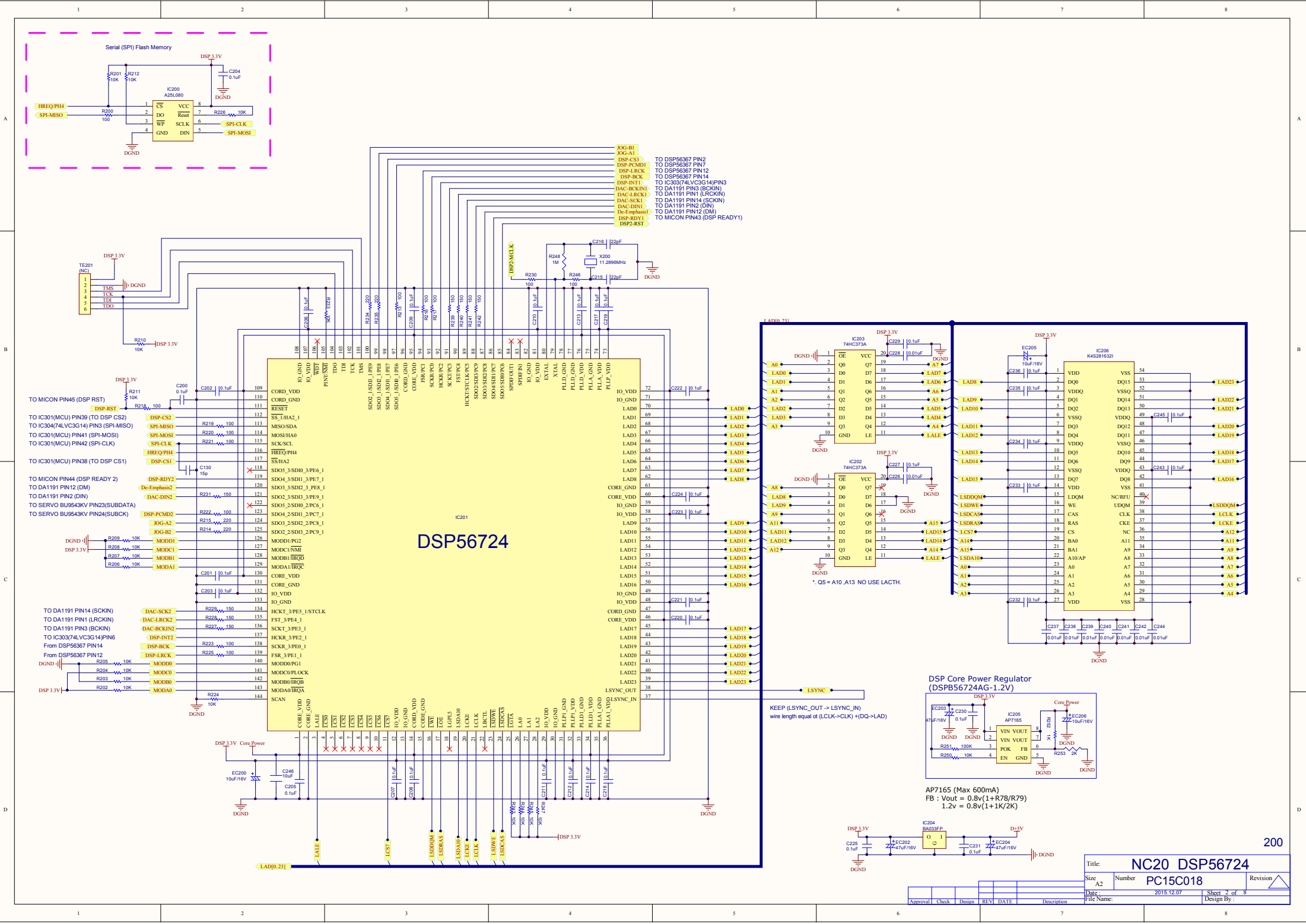
|            |                      |                                  |          |                                                                                  |
|------------|----------------------|----------------------------------|----------|----------------------------------------------------------------------------------|
| ...3       | LDLTST-C190KSKT      | Liquid-emitting Diode Amber SMD  | 2        | LED802,809                                                                       |
| ...3       | PT111048005          | Fixed Base,LED                   | 8        | (LED901~908)                                                                     |
| ...3       | RS001K10F03          | RESISTOR 1K 1% SMD 0603          | 13       | R740,805,806,813,821,901~903,924~926,929,930                                     |
| ...3       | RS001M10F03          | RESISTOR 1M 1% SMD 0603          | 6        | R403,404,503,504,603,604                                                         |
| ...3       | RS002710F03          | RESISTOR 27Ω 1% SMD 0603         | 2        | R817,825                                                                         |
| ...3       | RS006810F03          | RESISTOR 68Ω 1% SMD 0603         | 8        | R727~734                                                                         |
| ...3       | RS010010F03          | RESISTOR 100Ω 1% SMD 0603        | 12       | R437~442,703,704,744,745,810,811                                                 |
| ...3       | RS010K10F03          | RESISTOR 10K 1% SMD 0603         | 22       | R405,406,431,432,435,436,505,506,531,532,535,536,605,606,631,632,635,636,910~913 |
| ...3       | RS015K10F03          | RESISTOR 15K 1% SMD 0603         | 7        | R401,402,501,502,601,602,725                                                     |
| ...3       | RS016K10F03          | RESISTOR 16K 1% SMD 0603         | 2        | R537,538                                                                         |
| ...3       | RS01K310F03          | RESISTOR 1.3K 1% SMD 0603        | 4        | R716~719                                                                         |
| ...3       | RS01K810F03          | RESISTOR 1.8K 1% SMD 0603        | 4        | R814,815,822,823                                                                 |
| ...3       | RS020K10F03          | RESISTOR 20K 1% SMD 0603         | 12       | R701,702,904~909,920,921,927,928                                                 |
| ...3       | RS024010F03          | RESISTOR 240Ω 1% SMD 0603        | 16       | R414,417,420,423,426,429,517,520,526,529,614,617,620,623,626,629                 |
| ...3       | RS024K10F03          | RESISTOR 24K 1% SMD 0603         | 2        | R801,802                                                                         |
| ...3       | RS02K710F03          | RESISTOR 2.7K 1% SMD 0603        | 18       | R413,416,419,422,425,428,513,519,522,528,613,616,619,622,625,628,715,726         |
| ...3       | RS033K10F03          | RESISTOR 33K 1% SMD 0603         | 2        | R742,743                                                                         |
| ...3       | RS03K310F03          | RESISTOR 3.3K 1% SMD 0603        | 1        | R724                                                                             |
| ...3       | RS043K10F03          | RESISTOR 43K 1% SMD 0603         | 4        | R916~919                                                                         |
| ...3       | RS047K10F03          | RESISTOR 47K 1% SMD 0603         | 3        | R739,922,923                                                                     |
| ...3       | RS04K710F03          | RESISTOR 4.7K 1% SMD 0603        | 6        | R433,434,533,534,633,634                                                         |
| ...3       | RS051010F03          | RESISTOR 510Ω 1% SMD 0603        | 2        | R816,824                                                                         |
| ...3       | RS056K10F03          | RESISTOR 56K 1% SMD 0603         | 10       | R415,418,424,427,518,527,615,618,624,627                                         |
| ...3       | RS05K110F03          | RESISTOR 5.1K 1% SMD 0603        | 4        | R720~723                                                                         |
| ...3       | RS05K610F03          | RESISTOR 5.6K 1% SMD 0603        | 4        | R735~738                                                                         |
| ...3       | RS062K10F03          | RESISTOR 62K 1% SMD 0603         | 6        | R421,430,521,530,621,630                                                         |
| ...3       | RS068010F03          | RESISTOR 680Ω 1% SMD 0603        | 2        | R807,809                                                                         |
| ...3       | RS06K810F03          | RESISTOR 6.8K 1% SMD 0603        | 4        | R812,820,914,915                                                                 |
| ...3       | RS100K10F03          | RESISTOR 100K 1% SMD 0603        | 2        | R803,804                                                                         |
| ...3       | RS200K10F03          | RESISTOR 200K 1% SMD 0603        | 12       | R408,409,411,412,508,509,511,512,608,609,611,612                                 |
| ...3       | RS270K10F03          | RESISTOR 270K 1% SMD 0603        | 4        | R407,410,607,610                                                                 |
| ...3       | RS330K10F03          | RESISTOR 330K 1% SMD 0603        | 1        | R808                                                                             |
| ...3       | RS560K10F03          | RESISTOR 560K 1% SMD 0603        | 1        | R741                                                                             |
| ...3       | SWSFPC14MA01         | Switch Push 2P2T Dual Row Lock   | 4        | SW901~904                                                                        |
| ...3       | SWSSFUB22-10K        | Switch Slide Single Row 180°     | 3        | SW501,701,702                                                                    |
| ...3       | TR2SA1037ASM         | TRANSISTOR 2SA1037AKR PNP        | 1        | Q714                                                                             |
| ...3       | TR2SD2114KSM         | TRANSISTOR 2SD2114K NPN          | 4        | Q710~713                                                                         |
| ...3       | TRBC857B             | TRANSISTOR BC857B PNP            | 3        | Q801~803                                                                         |
| ...3       | VRR50301704          | Potentiometer Rotary Volume Sh   | 11       | VR402~404,502,504,602~604,710,711,901                                            |
| ...3       | VRR50301705          | Potentiometer Rotary Volume Sh   | 3        | VR501,712,902                                                                    |
| ...3       | VRR50301706          | Potentiometer Rotary Volume Sh   | 2        | VR401,601                                                                        |
| ...3       | VRS50304527          | Potentiometer Slide 50KA Trave   | 2        | VR405,605                                                                        |
| ...3       | VRS50306001          | Potentiometer Slide 50K15A 600   | 1        | VR701                                                                            |
| ...3       | WR0620001004         | Shielding Cable 6Pin Single Ro   | 1        | CN503                                                                            |
|            |                      |                                  |          |                                                                                  |
| ..2        | <b>TWPC15C019D01</b> | <b>Cross Fader PCB Assembly</b>  | <b>1</b> | <b>8</b>                                                                         |
| ...3       | TE622000701          | 7P CONNECTOR                     | 1        | (TE502)                                                                          |
| ...3       | VRS50304528          | Potentiomeper Slide 50K3BX4 45   | 1        | VR506                                                                            |
|            |                      |                                  |          |                                                                                  |
| <b>0.1</b> | <b>TWPC15C03701</b>  | <b>SERVO PCB 2 Assembly</b>      | <b>1</b> |                                                                                  |
| <b>..2</b> | <b>PC15C037</b>      | <b>SERVO PCB</b>                 | <b>1</b> |                                                                                  |
| <b>..2</b> | <b>TWPC15C037A01</b> | <b>Server PCB Assembly</b>       | <b>2</b> | <b>41</b>                                                                        |
| ...3       | CS103K5003X7R        | CCAP SMD 0.01uF/50V 10% 0603 X7R | 2        | C2,3                                                                             |
| ...3       | CS104K5003X7R        | CCAP SMD 0.1uF/50V 10% 0603 X7R  | 13       | C1,6~10,12~17,20                                                                 |
| ...3       | CS272K5003X7R        | CCAP SMD 2.7nF/50V 10% 0603 X7R  | 1        | C4                                                                               |
| ...3       | CS300J5003NPO        | CCAP SMD 30pF/50V 5% 0603 NPO    | 2        | C18,19                                                                           |
| ...3       | CS681J5003NPO        | CCAP SMD 680pF/50V 5% 0603 NPO   | 1        | C11                                                                              |
| ...3       | CS682K5003X7R        | CCAP SMD 6.8 nF/50V 10% 0603 X7R | 1        | C5                                                                               |
| ...3       | EC10616TS            | Capacitor Electrolytic 10uF/16V  | 1        | EC10                                                                             |
| ...3       | EC10716TS            | Capacitor Electrolytic 100uF/16V | 9        | EC1~3,6~9,11,12                                                                  |

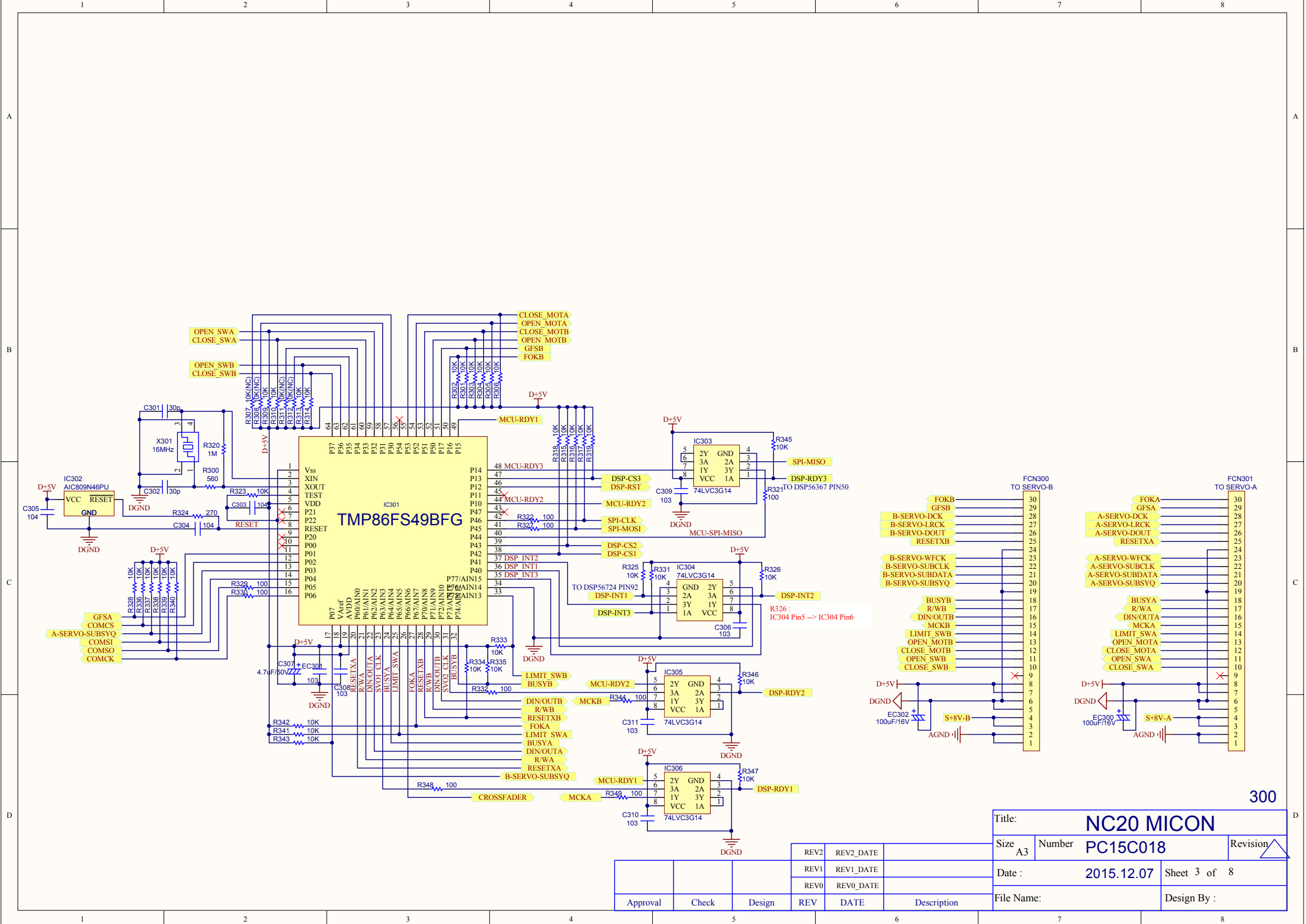
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|------|---------------|------------------------------------|---|--------------|
| ...3 | EC22450TS     | Capacitor Electrolytic 0.22uF/50V  | 1 | EC4          |
| ...3 | EC33550TS     | Capacitor Electrolytic 3.3uF/50V   | 1 | EC5          |
| ...3 | FCN1R1001605  | FCN UP Touch smd Pitch 1.0mm       | 1 | FCN1         |
| ...3 | FCN1T1003001  | FCN Down Touch ZIF SMD Pitch=1.0mm | 1 | FCN2         |
| ...3 | ICBA033FP     | IC BA033FP                         | 1 | IC2          |
| ...3 | ICBA5968FP    | IC BA5968FP                        | 1 | IC1          |
| ...3 | ICBU9543KV    | IC BU9543KV                        | 1 | IC3          |
| ...3 | RS001410F03   | RESISTOR 14Ω 1% SMD 0603           | 1 | R28          |
| ...3 | RS001K10F03   | RESISTOR 1K 1% SMD 0603            | 2 | R15,27       |
| ...3 | RS001M10F03   | RESISTOR 1M 1% SMD 0603            | 1 | R30          |
| ...3 | RS002010F03   | RESISTOR 20Ω 1% SMD 0603           | 1 | R31          |
| ...3 | RS002210F03   | RESISTOR 22Ω 1% SMD 0603           | 1 | R3           |
| ...3 | RS010010F03   | RESISTOR 100Ω 1% SMD 0603          | 1 | R29          |
| ...3 | RS010K10F03   | RESISTOR 10K 1% SMD 0603           | 4 | R2,9,10,11   |
| ...3 | RS015010F03   | RESISTOR 150Ω 1% SMD 0603          | 6 | R23~25,32~34 |
| ...3 | RS022K10F03   | RESISTOR 22K 1% SMD 0603           | 5 | R13,18~21    |
| ...3 | RS02K210F03   | RESISTOR 2.2K 1% SMD 0603          | 1 | R4           |
| ...3 | RS02K710F03   | RESISTOR 2.7K 1% SMD 0603          | 1 | R1           |
| ...3 | RS033K10F03   | RESISTOR 33K 1% SMD 0603           | 2 | R16,17       |
| ...3 | RS03K310F03   | RESISTOR 3.3K 1% SMD 0603          | 1 | R5           |
| ...3 | RS047010F03   | RESISTOR 470Ω 1% SMD 0603          | 2 | R22,156      |
| ...3 | RS04R710F03   | RESISTOR 4.7Ω 1% SMD 0603          | 2 | R6,7         |
| ...3 | RS05K610F03   | RESISTOR 5.6K 1% SMD 0603          | 1 | R14          |
| ...3 | RS100K10F03   | RESISTOR 100K 1% SMD 0603          | 1 | R12          |
| ...3 | TE10200501    | 5P CONNECTOR                       | 1 | (TE2)        |
| ...3 | TE10200602    | 6P CONNECTOR                       | 1 | (TE1)        |
| ...3 | TR2SA1037ASM  | TRANSISTOR 2SA1037AKR PNP          | 1 | Q1           |
| ...3 | XTM16934X8    | CRYSTAL 16.9344MHz S3225A Fund     | 1 | X1           |
|      |               |                                    |   |              |
| ..2  | TWPC15C037B01 | Shielding PCB Assembly             | 1 | 40           |



|                      |                 |              |  |
|----------------------|-----------------|--------------|--|
| Title: NC20 DSP56367 |                 |              |  |
| Size A3              | Number PC15C018 | Revision     |  |
| Date :               | 2015.12.07      | Sheet 1 of 8 |  |
| File Name:           |                 | Design By :  |  |

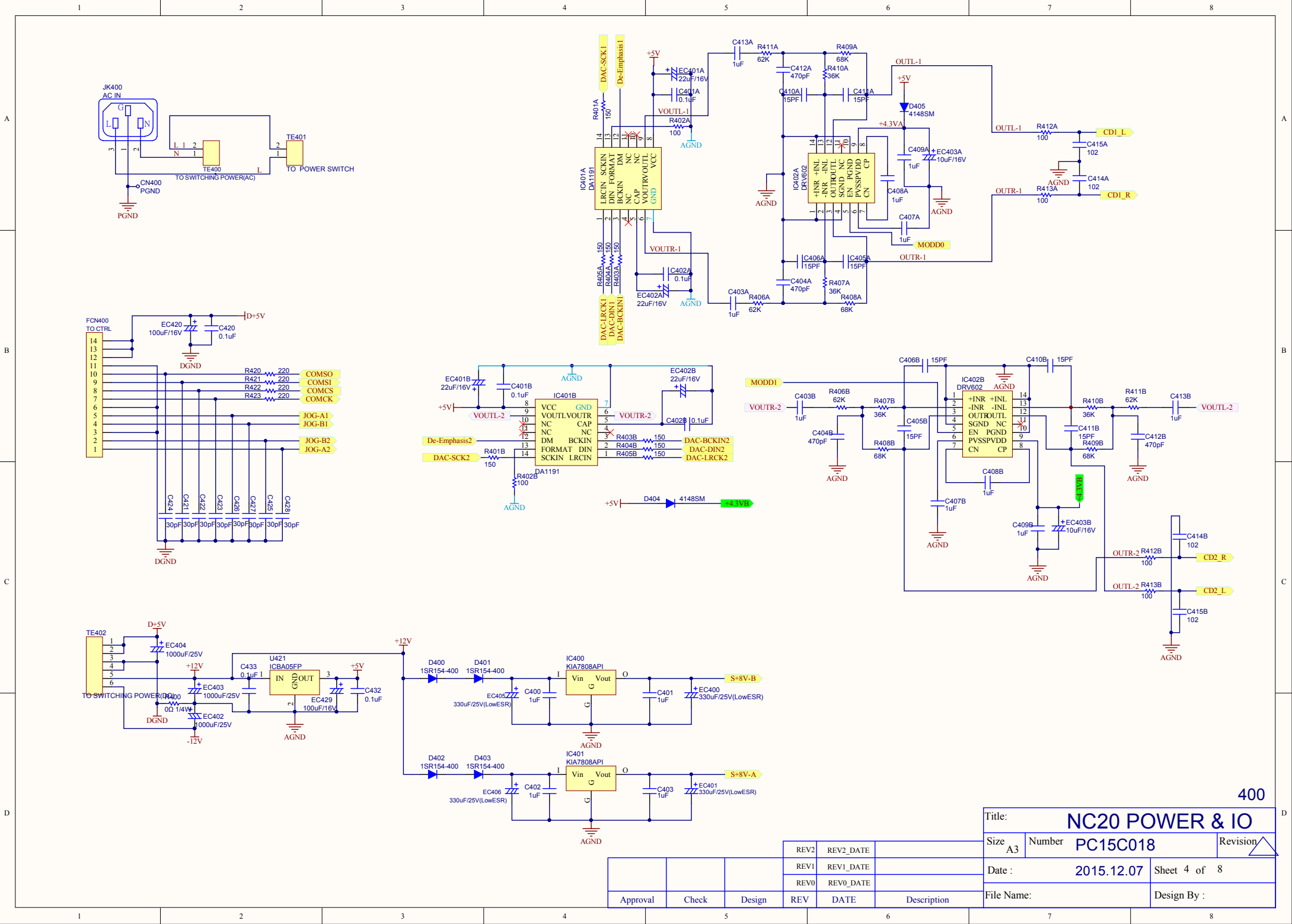
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|          |       |        | REV1 | REV1_DATE |             |
|          |       |        | REV0 | REV0_DATE |             |





|            |            |             |          |
|------------|------------|-------------|----------|
| Title:     |            | NC20 MICON  |          |
| Size       | A3         | Number      | PC15C018 |
| Date :     | 2015.12.07 | Sheet       | 3 of 8   |
| File Name: |            | Design By : |          |

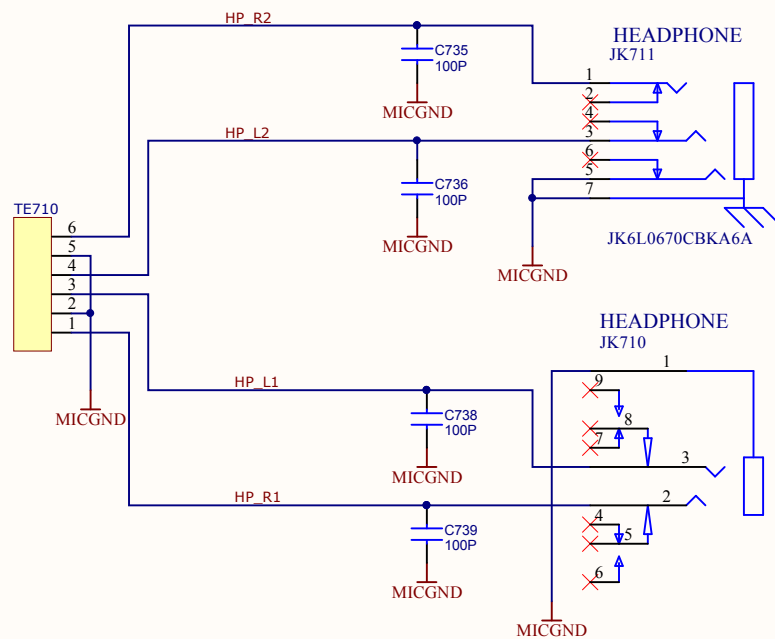
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|          |       |        | REV1 | REV1_DATE |             |
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|                        |            |             |              |
|------------------------|------------|-------------|--------------|
| Title: NC20 POWER & IO |            |             |              |
| Size                   | A3         | Number      | PC15C018     |
| Date :                 | 2015.12.07 |             | Sheet 4 of 8 |
| File Name:             |            | Design By : |              |

|          |       |        |      |           |             |
|----------|-------|--------|------|-----------|-------------|
| Approval | Check | Design | REV2 | REV2_DATE |             |
|          |       |        | REV1 | REV1_DATE |             |
|          |       |        | REV0 | REV0_DATE |             |
|          |       |        | REV  | DATE      | Description |





|                              |                            |                                                                                                |        |
|------------------------------|----------------------------|------------------------------------------------------------------------------------------------|--------|
| Title: <b>NC20 HEADPHONE</b> |                            |                                                                                                |        |
| Size<br>A4                   | Number<br><b>PC15C018B</b> | Revision  |        |
| Date :                       | 2015.12.07                 | Sheet                                                                                          | 1 of 1 |
| File Name:                   |                            | Design By :                                                                                    |        |

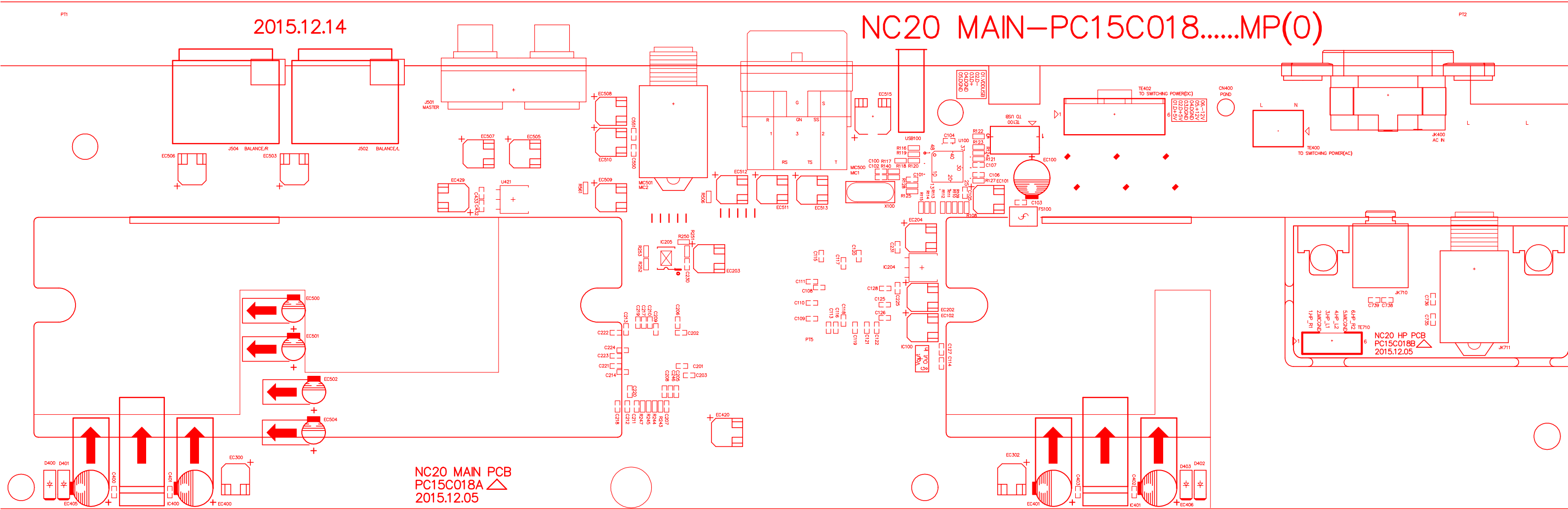
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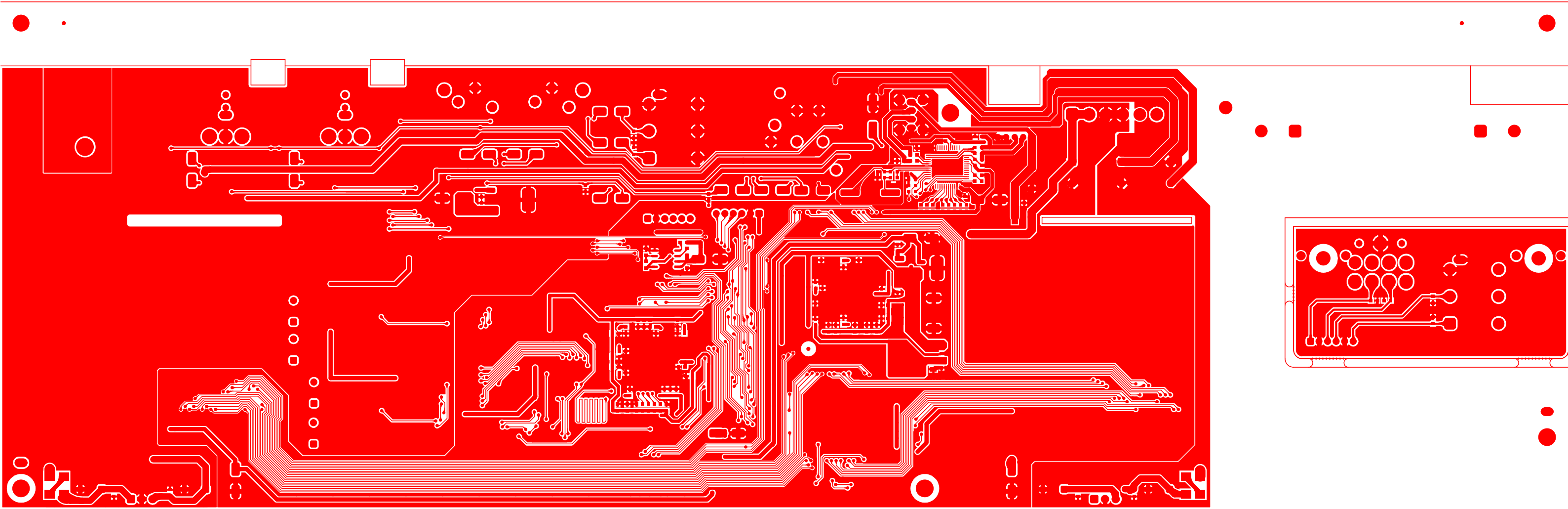
PT1

2015.12.14

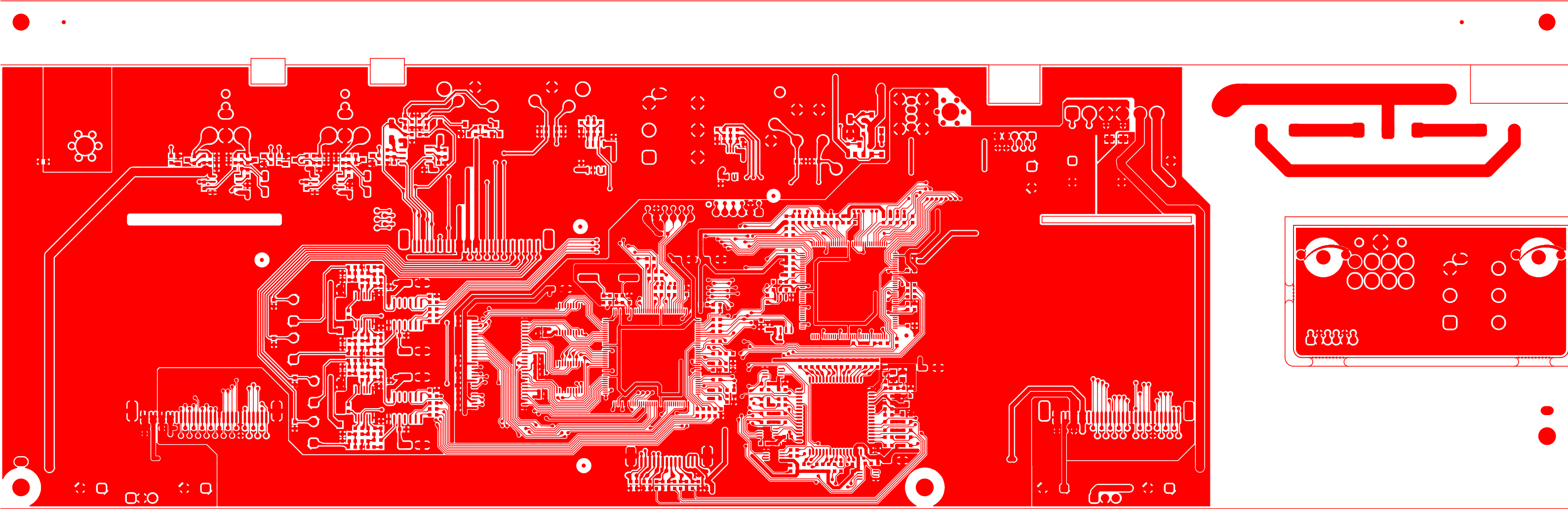
NC20 MAIN-PC15C018.....MP(0)

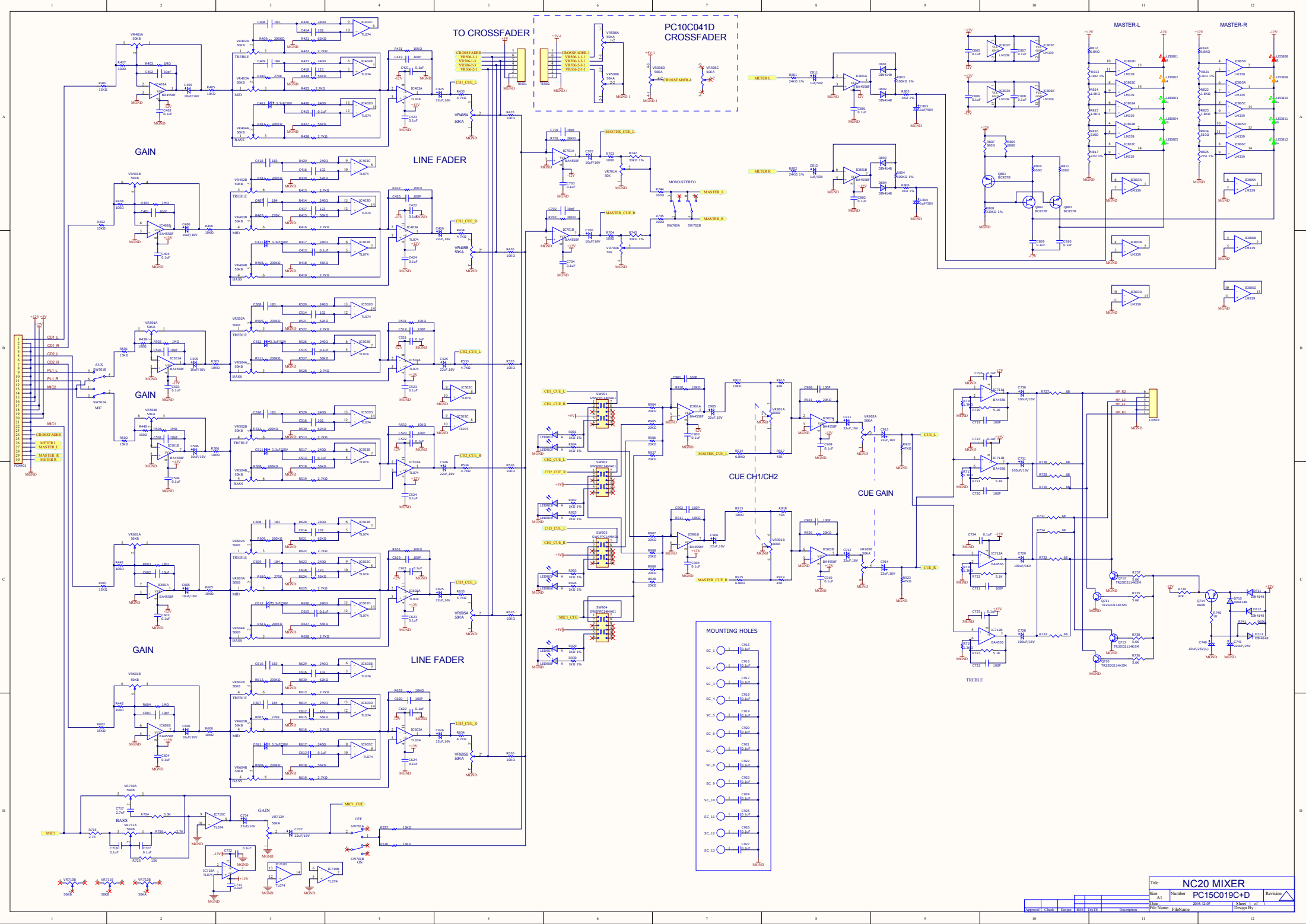
PT2



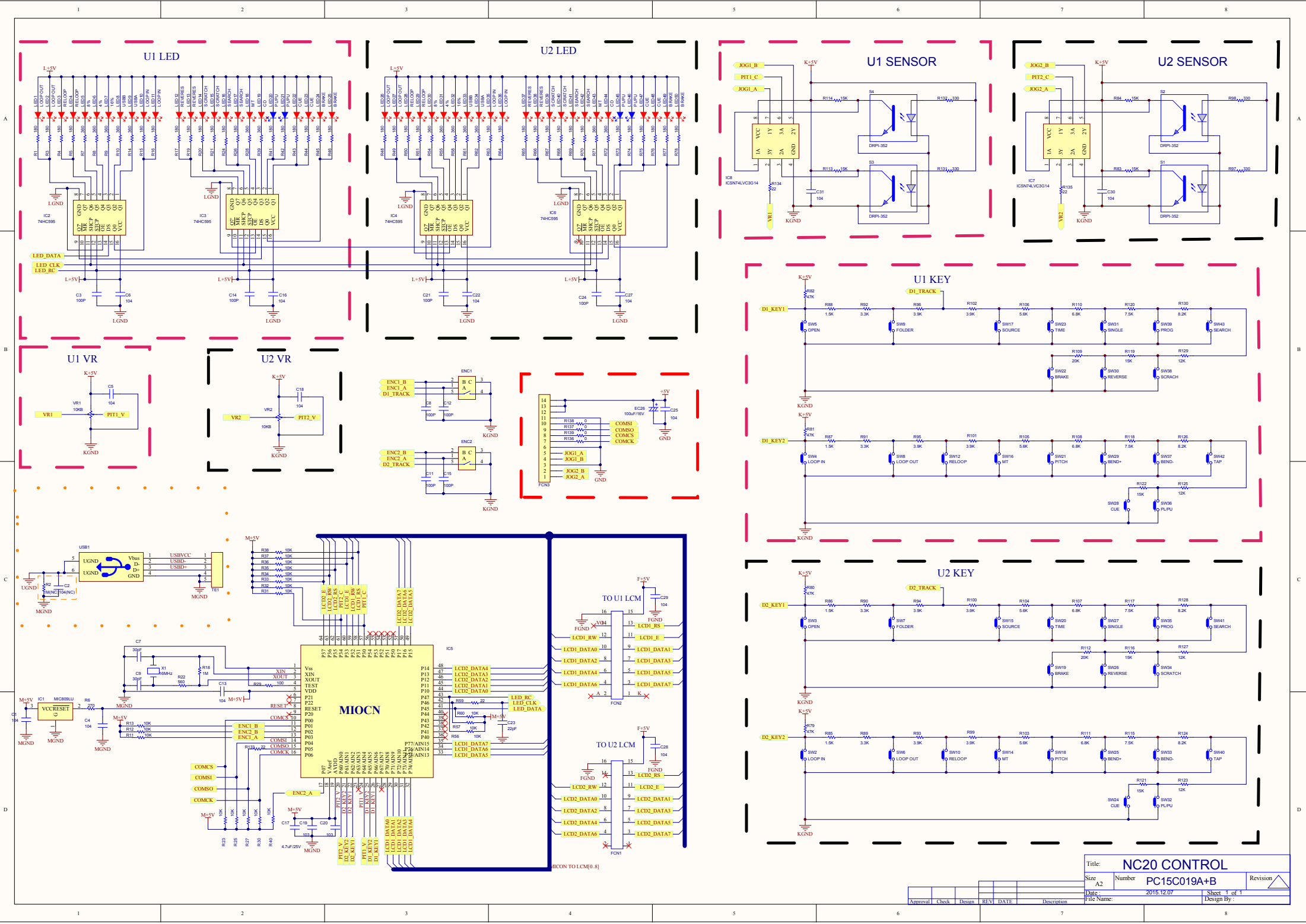


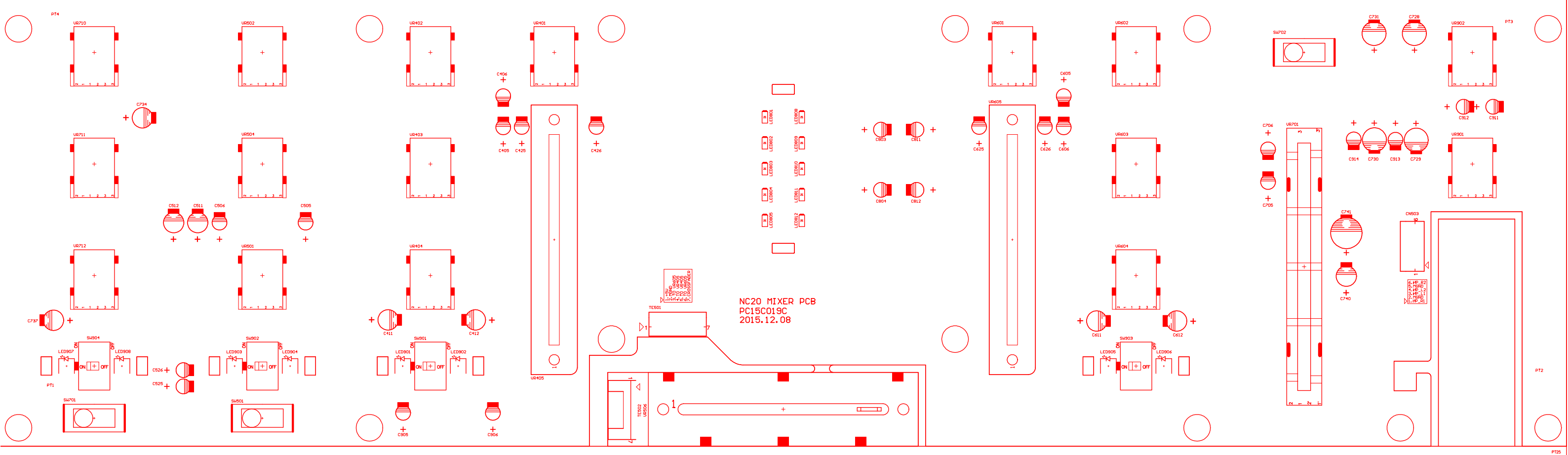
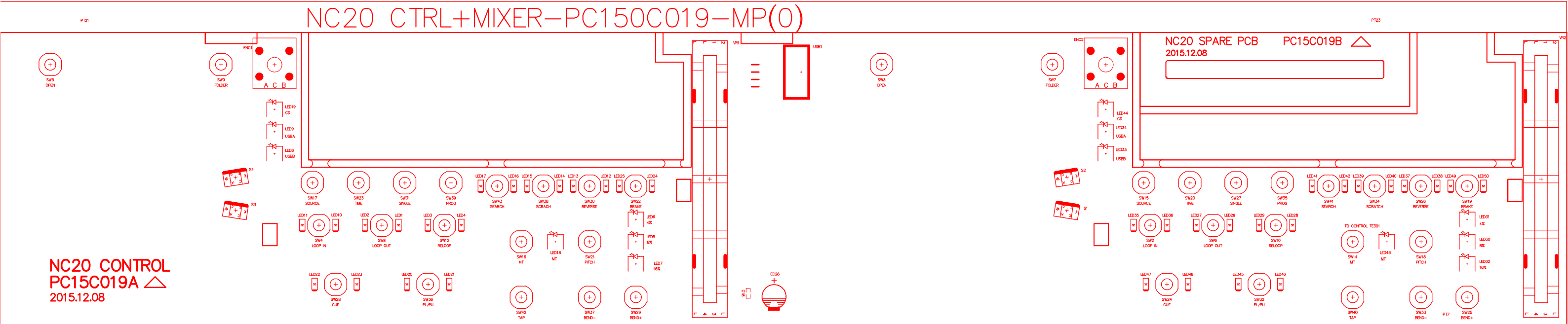


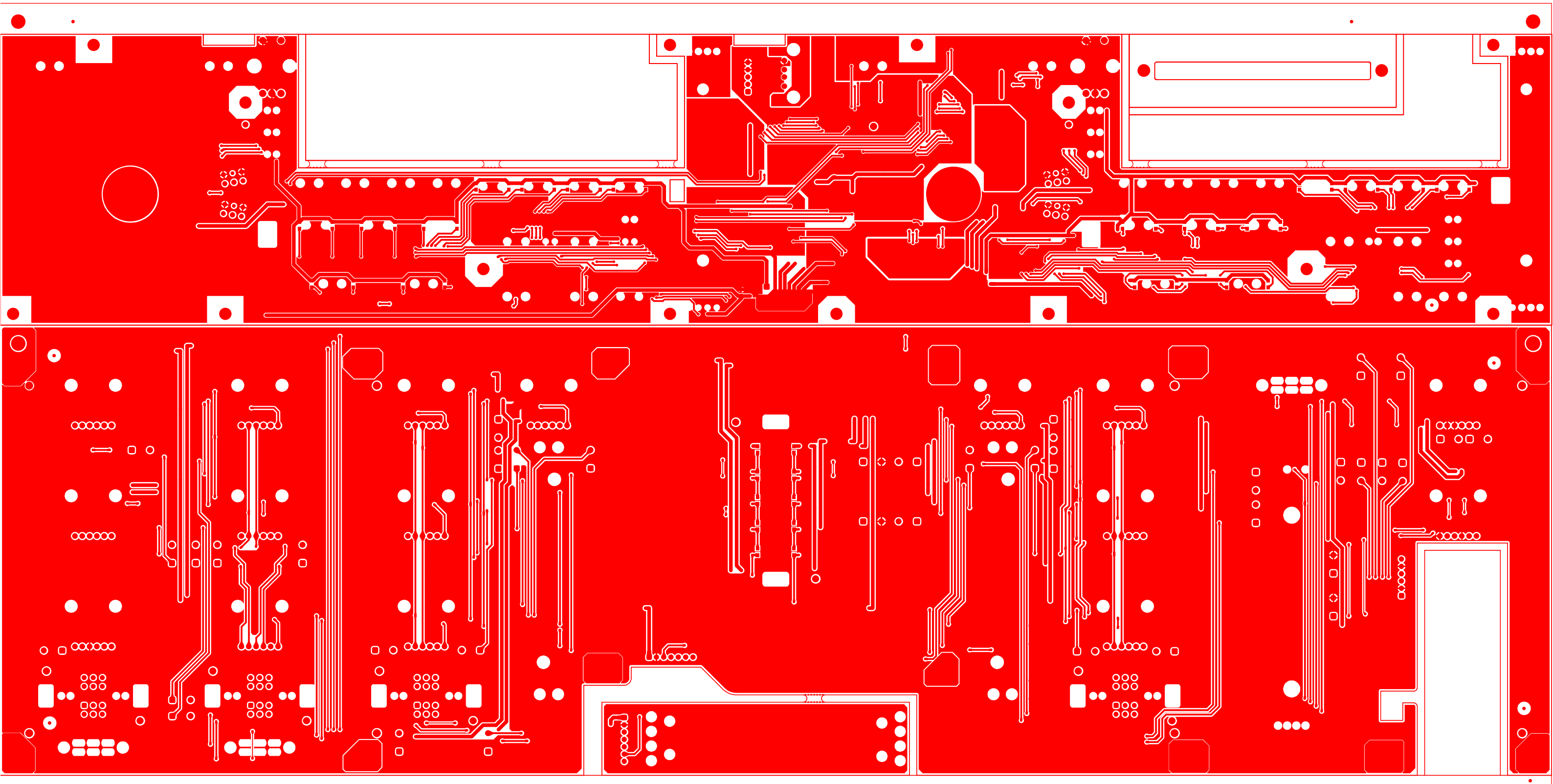


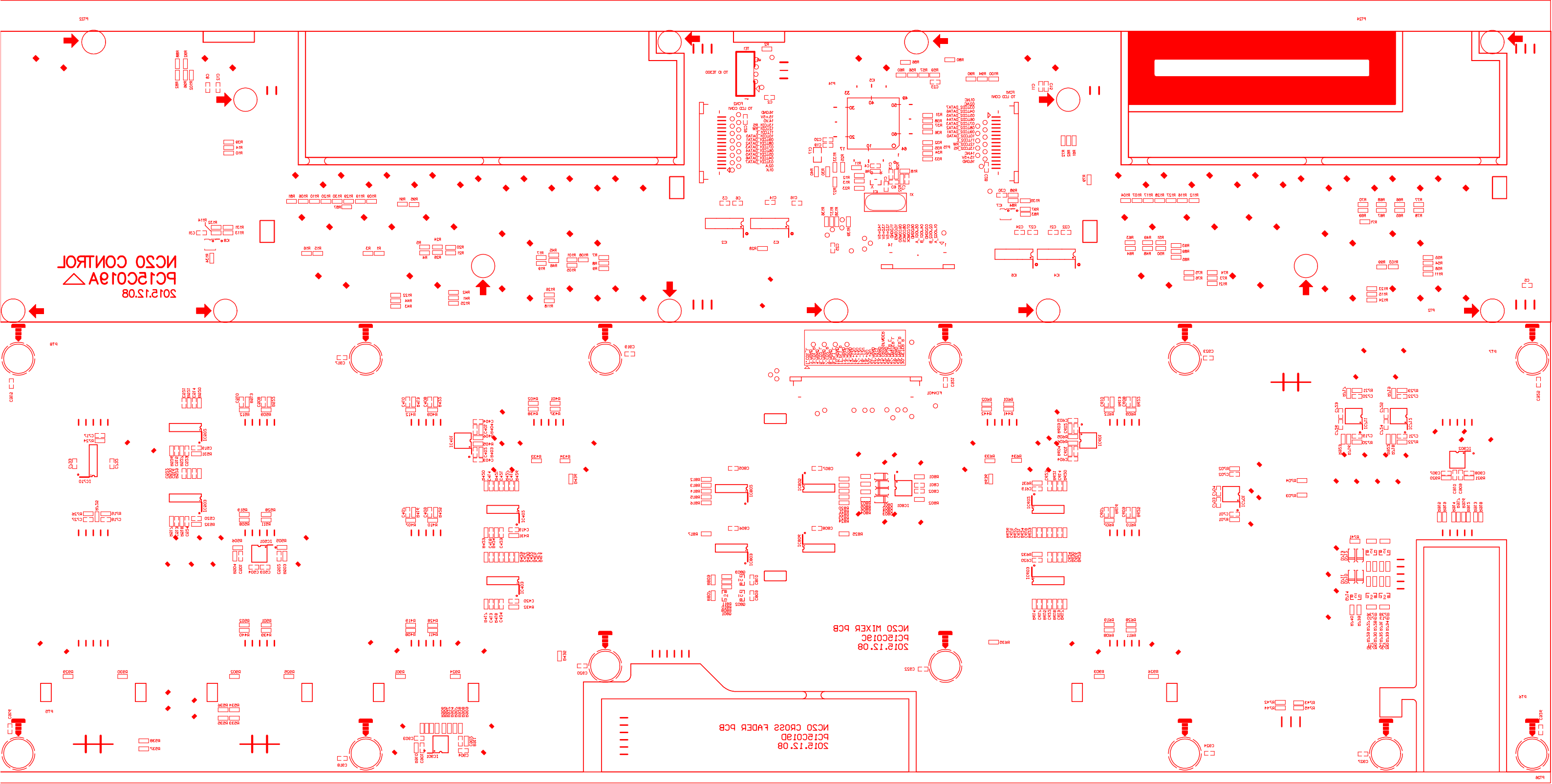


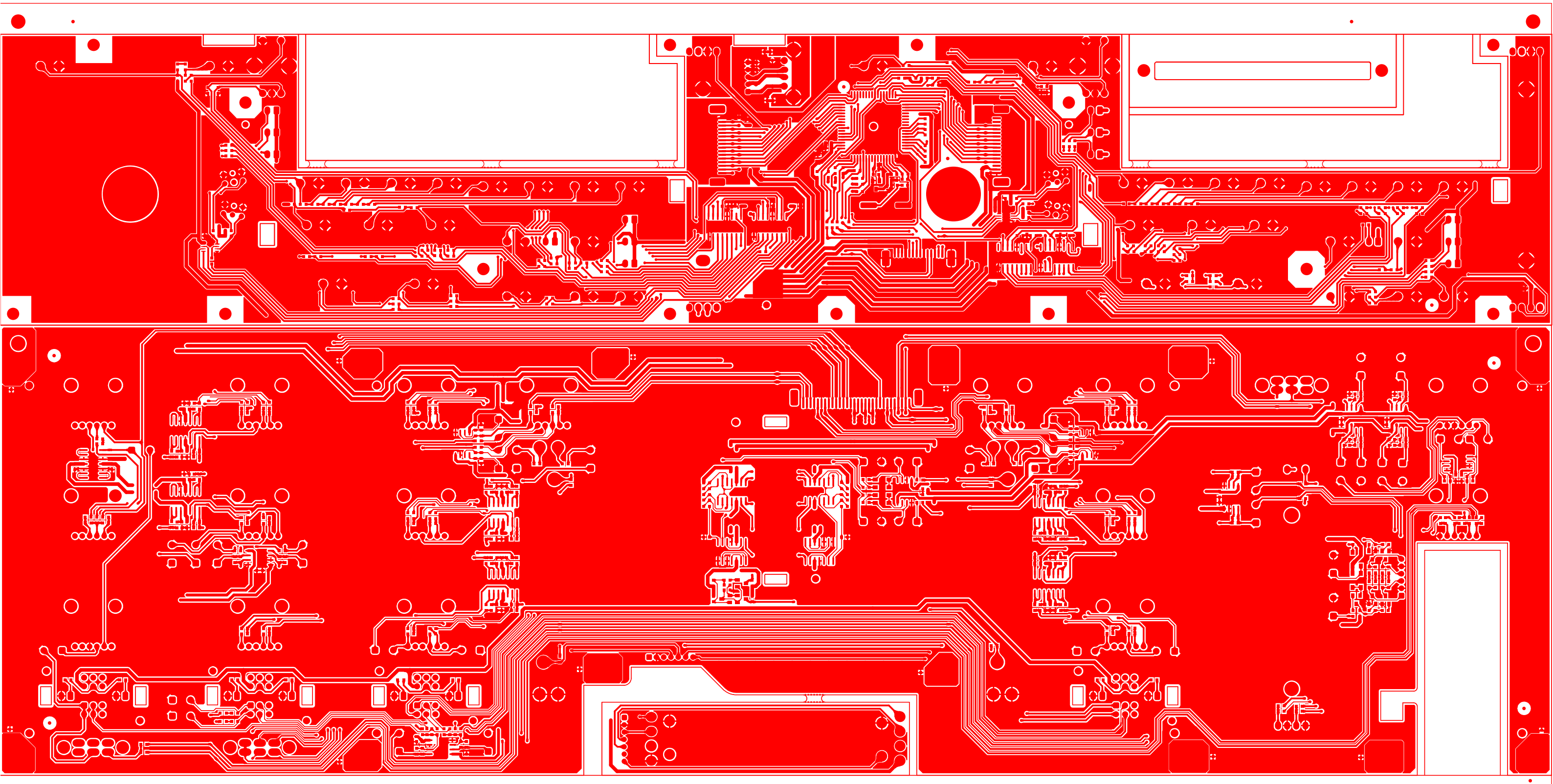
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| Rev:       | 2015.05.01 | Revision:  |             |
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| Author:    | Check      | Design:    | Rev         |
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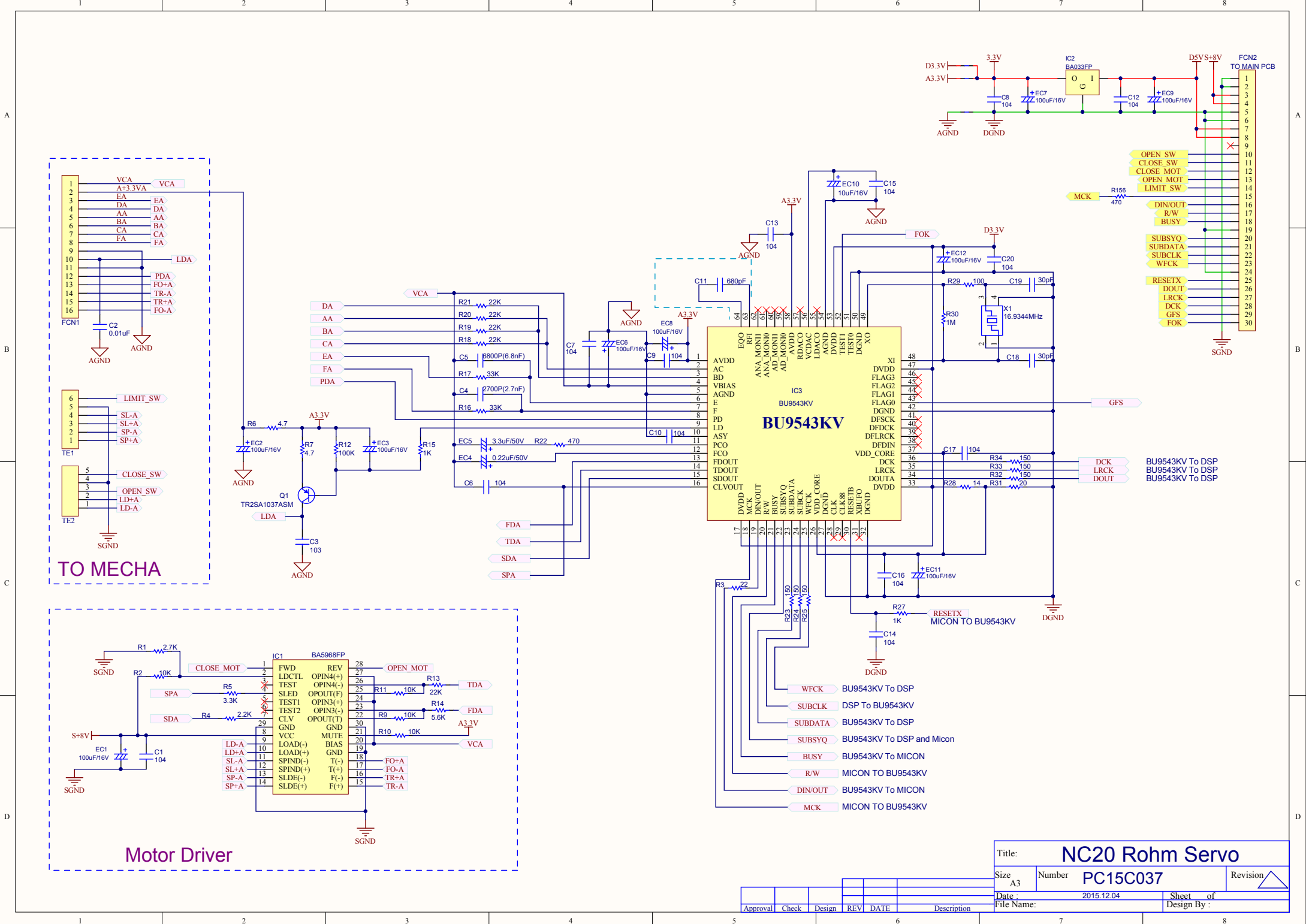








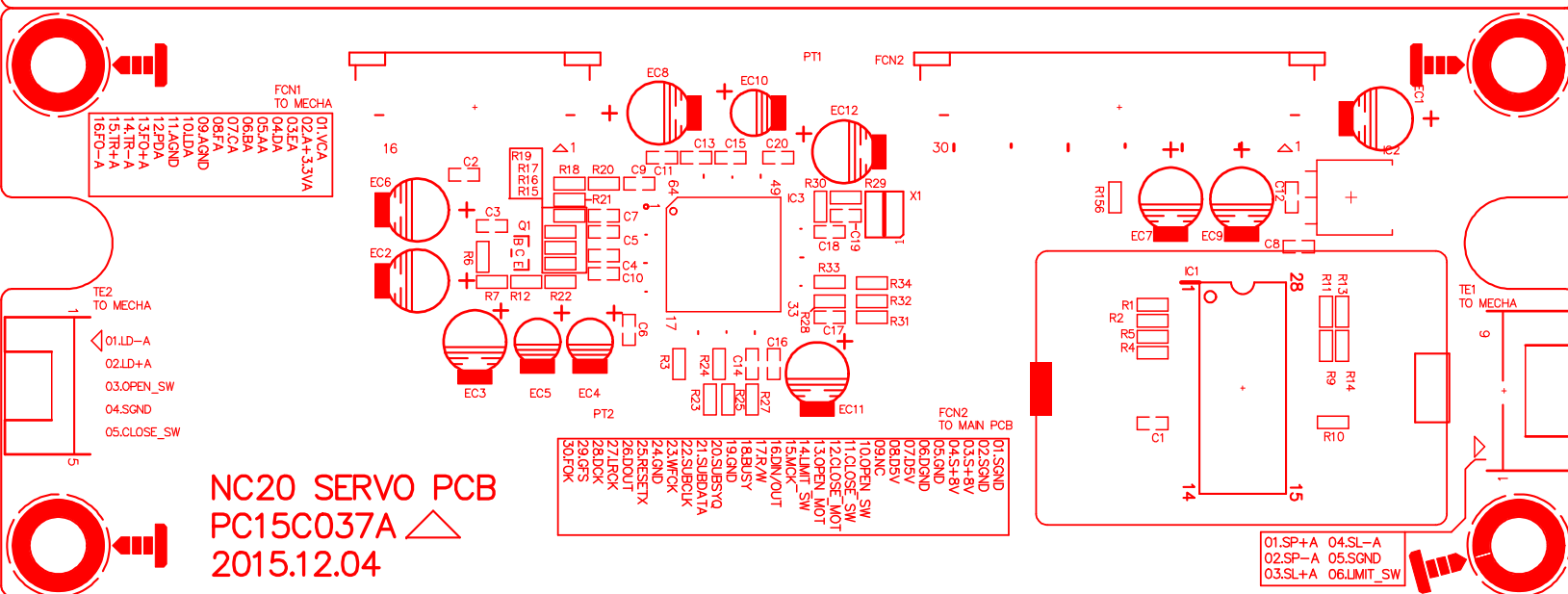




PT3

## NC20 SERVO-PC15C037...MP

PT4



NC20 Shielding PCB  
PC15C037B  
2015.12.04

