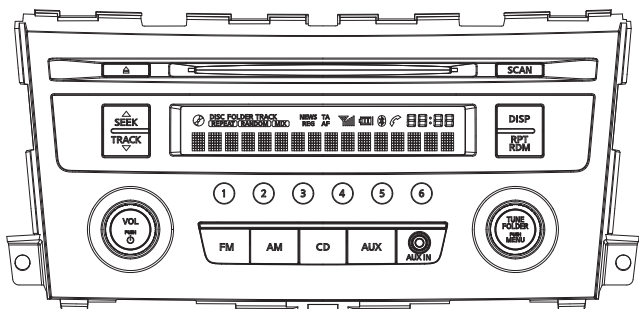


# Service Manual



NISSAN MOTOR GENUINE  
 FM/AM RADIO TUNER  
 1CD PLAYER (FOR U.S.A.)

Model **PN-3378I-E**  
 (Genuine Part Number 28185 9HR0A)

Model	Genuine No.	Escutcheon	Manual No.
PN-3378I-A	28185 3TA0A	Black gloss	E7208-00
PN-3378I-B	28185 3TA0G	Black gloss	E7315-00
PN-3378I-C	28185 3TA0G	Black gloss	E7531-00
PN-3378I-D	28185 3TB0G	Black gloss	E7531-00
PN-3378I-E	28185 9HR0A	Black	E7752-00

LF

- This product is a lead free model.  
 Lead free solder is used in PWB stamped LF mark.  
 Please keep the following conditions when you repair.
- Use lead free solder.
    - \* Koki's lead free solder S3X-55M 0.6mm  
 (CLARION Parts No.642-0231-01)
    - \* Koki's lead free solder S3X-55M 1.0mm  
 (CLARION Parts No.642-0231-02)
  - Use a nitrogen solder system.
  - Do not use "General solder" and "Lead free solder" together.

## REFERENCE SERVICE MANUAL

1CD Mechanism Module : 929-5150-81

Mechanism Module No.	Manual No.
929-5150-81	E7172-00

## NOTES

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- \* Specification and design are subject to change without notice for further improvement.
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## COMPONENTS

PN-3378I-E

- |    |           |       |   |
|----|-----------|-------|---|
| 1. | MAIN UNIT | ----- | 1 |
|----|-----------|-------|---|

## To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

### 1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

### 2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

### 3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons that there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 4. Cautions in removal and making wiring connection to the parts for the automobile

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 5. Cautions in soldering

Please do not spread liquid flux in soldering.

Please do not wash the soldering point after soldering.

### 6. Cautions in soldering of chip capacitors

Please solder the chip capacitors after pre-heating for replacement because they are very weak to heat.

Please do not heat the chip capacitors with a soldering iron directly.

### 7. Cautions in handling of chip parts

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc).

Please make an operation test after replacement.

### 8. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

### 9. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

### 10. Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical

diode lights up, keep your eyes more than 30 cms away from the lens. Prolonged viewing of the laser within 30 cms may damage your eyesight.

### 11. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

#### 11-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

#### 11-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it, its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

#### 11-3. Cleaning the lens

Dust on the optical lens affects performance.


To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

## PRECAUTIONS

### FCC CAUTION


Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NISSAN** 28185 9HROA



\*28185 9HROA\*

MODEL NO. PN-3378I  
12V(-)GROUND  
SERIAL NO. [ ]





MANUFACTURED [ ]

This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.

This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

THIS DEVICE COMPLIES WITH DHS RULES 21 CFR CHAPTER I SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.

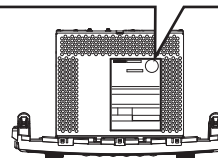
 MOUNT SCREW  M5x8 mm MAX	Bluetooth QD ID : B018901
	Contains FCC ID : NTB-12NBTDCC
	Contains IC : 3043A-12NBTDCC

FREQUENCY RANGE  
AM:530kHz-1710kHz  
FM:87.75MHz-107.9MHz

Contains COFETEL : RCPVNB12-0346  
Módulo WLAN instalado adentro de esta computadora

Electrónica Clarion S.A. de C.V.  
AVENIDA NUEVE ORIENTE NO. 3 ZONA IND.  
VALLE DE ORO SAN JUAN DEL RIO QUERETARO.  
MEXICO CP.76803  
MADE IN MEXICO PART No. [ ]

Setplate



Top view of unit

## SPECIFICATIONS

### FM Tuner

Frequency range:	87.75MHz to 107.9MHz (AUTO 200KHz STEP,MANU 200KHz STEP)
Quieting sens.:	Less than 15dBuV (at 87.9 / 98.1 / 107.9MHz, S/N=30dB)
Stereo separation:	More than 22 +/-5dB (98.1MHz, ANT.IN 65dBuV, 1KHz) More than 10 +/-5dB (98.1MHz, ANT.IN 65dBuV, 7KHz)
SASC sens.	37 +/- 5dBuV (at 98.1M Hz, MOD.7KHz, ANT.IN 65dBuV -1dB POINT)
Auto stop sens.:	DX 32 +/- 6dBuV (at 87.9 / 98.1 / 107.9MHz)
S/N:	More than 47dB (at 87.9 / 98.1 / 107.9MHz, ANT.IN 55dBuV, 0dB=1.0V)
Noise level -20dBuV IN:	-10 +/- 3dB (at 98.1MHz, ANT.IN 55dBuV → -20dBuV)

### AM Tuner

Frequency range:	530KHz to 1710KHz (AUTO 10KHz STEP,MANU 10KHz STEP)
Quieting sens.:	Less than 37dBuV (at 600 / 1000 / 1400KHz, S/N=20dB)
Auto stop sens.:	DX 44 +/- 6dBuV (at 600 / 1000 / 1400KHz)
S/N:	More than 40dB (at 600 / 1000 / 1400KHz, ANT.IN 74dBuV, 0dB=1.0V)

### CD Player

Distortion:	Less than 0.2% (1KHz 5TRACK 20KHz LPF)
S/N:	More than 74dB (1KHz 2TRACK → - ∞ 8TRACK 20KHz LPF, JIS-A)
Separation:	More than 50dB (1KHz 9TRACK/11TRACK 20KHz LPF) * TEST DISC; TCD-782/SCD-5606

### General

Backup current:	Less than 1mA (13.2V, 30 seconds after ACC OFF)
Clock accuracy:	Within 0+/-1 sec. (DAY)
Weight:	1800g

### Test conditions

Power supply voltage:	13.2V DC, negative ground
Load resistance:	2 ohm
Tone, Bass/Treb position:	CENTER
Balance position:	CENTER
Fader position:	CENTER

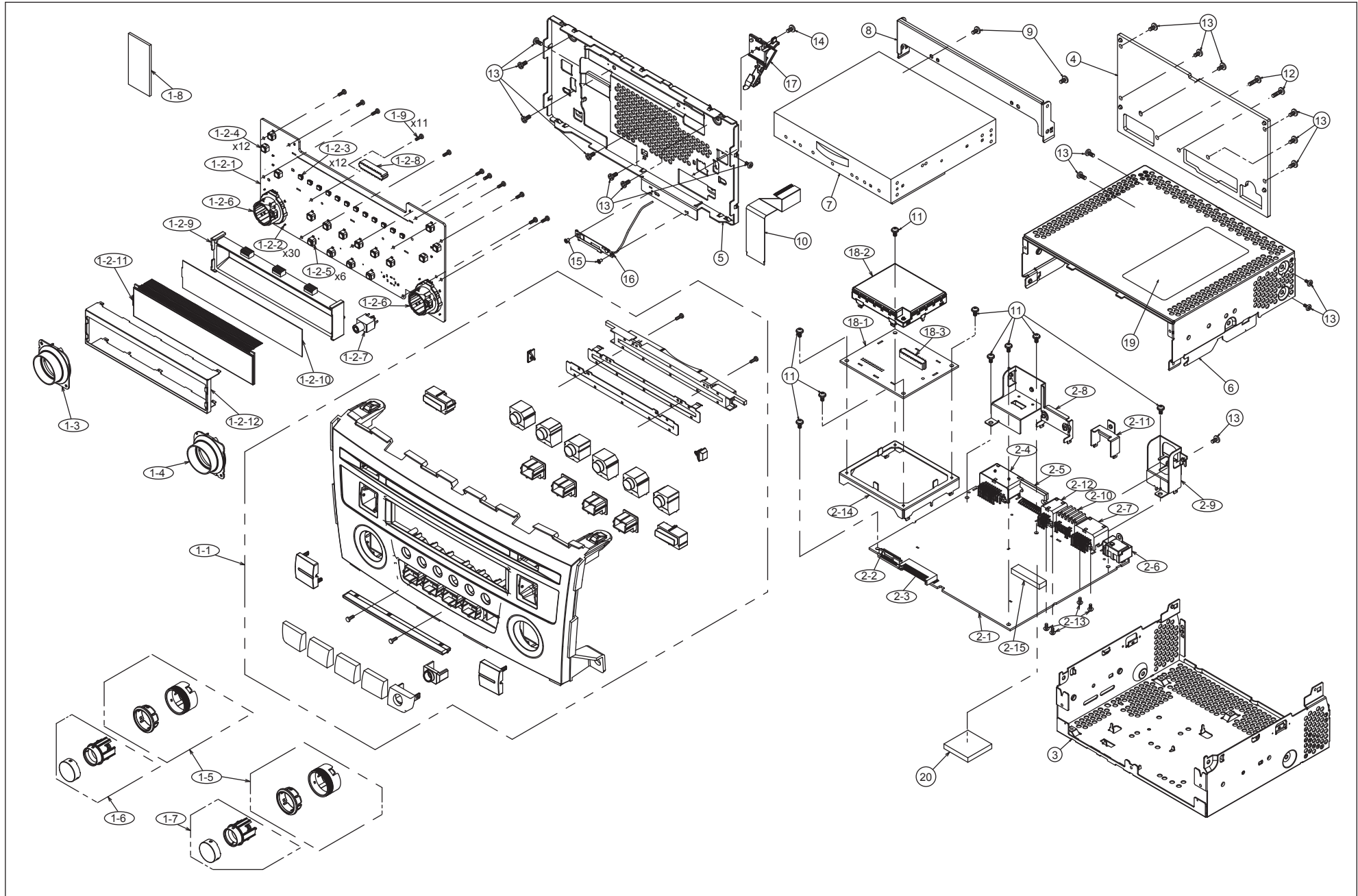
\* For details, please refer to the design specifications.

## EXPLODED VIEW / PARTS LIST

[ Parts list ]

NO.	PART NO.	DESCRIPTION	Q'TY
1	-----	*Unused number	-
1-1	940-8624-03	ESCUTCHEON-ASSY	1
1-2	-----	*Unused number	-
1-2-1	-----	SW PWB(379700-039)	1
1-2-2	001-7109-90	DIODE	30
1-2-3	001-7148-90	LED	12
1-2-4	013-6202-52	TACT SWITCH	12
1-2-5	013-6201-53	SWITCH	6
1-2-6	016-7006-00	ROTARY ENCODER	2
1-2-7	075-0395-01	JACK	1
1-2-8	074-3055-26	OUTLET SOCKET	1
1-2-9	335-9150-00	LCD HOLDER	1
1-2-10	335-9151-00	LCD REFLECTOR	1
1-2-11	379-1462-53	LCD	1
1-2-12	331-5137-00	LCD COVER	1
1-3	335-9147-00	ILLUMI RING(L)	1
1-4	335-9148-00	ILLUMI RING(R)	1
1-5	947-0835-00	KNOB-ASSY	2
1-6	947-0788-02	ASSY-PART(VOL)	1
1-7	947-0789-02	ASSY-PART(TUNE)	1
1-8	345-8090-00	CUSHION RUBBER	1
1-9	716-0778-52	SPECIAL SCREW	11
2	-----	*Unused number	-
2-1	-----	MAIN PWB(386901-039)	1
2-2	074-2260-88	OUTLET SOCKET	1
2-3	076-3011-76	PLUG	1
2-4	074-4009-20	OUTLET SOCKET	1
2-5	051-2067-00	IC	1
2-6	092-2210-01	ANT-RECEPT	1
2-7	074-1302-16	OUTLET SOCKET	1
2-8	331-5153-00	SOCKET HOLDER	1
2-9	331-4676-00	ANT-HOLDER	1
2-10	-----	*Not mounted(OUTLET SOCKET)	-
2-11	-----	*Not mounted(SOCKET HOLDER)	-
2-12	074-1302-08	OUTLET SOCKET	1
2-13	778-3006-00	TAP-SCREW	4
2-14	331-5269-00	BT-BRKT	1
2-15	076-3060-26	PLUG	1
3	311-1993-00	LOWER CASE	1
4	313-2070-20	HEAT SINK	1
5	309-1948-00	ES PLATE	1
6	310-1916-00	UPPER CASE	1
7	929-5150-81	CD-MECH-MODULE	1
8	331-5138-00	CD BRKT	1
9	714-2603-89	MACHINE SCREW	2
10	816-3064-05	FLAT WIRE	1
11	716-0878-50	SPECIAL SCREW	9
12	735-2614-1B	D-SEMS SCREW	2
13	714-2606-8B	MACHINE SCREW	17
14	716-3718-00	SPECIAL SCREW	1
15	716-1468-01	SPECIAL SCREW	2
16	060-8122-10	BLUETOOTH-ANT	1
17	335-9220-00	ANT-GUIDE	1
18	-----	*Unused number	-
18-1	-----	CONNECTOR-PWB(388800-039)	1
18-2	060-8141-01	BT MODULE	1
18-3	074-3055-26	OUTLET SOCKET	1
19	276-1158-03	SETPLATE	1
20	345-6653-00	RUBBER SHEET	1

[ Exploded view ]



# ELECTRICAL PARTS LIST

## MAIN PWB(B1) section

\* Neither the part numbers of parts on which software is written, nor part numbers of parts for which replacement is prohibited in the production process are listed in the parts list.

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
C101	168-2222-55	2200pF K	C348	046-1042-78	0.1uF K B	C536	168-6822-55	6800pF K
C122	166-1201-50	12pF CH	C349	046-1042-78	0.1uF K B	C537	168-6822-55	6800pF K
C128	045-2201-50	22pFJ CH	C350	046-1042-78	0.1uF K B	C538	168-6822-55	6800pF K
C129	046-1022-58	50V 1000pF	C351	046-1042-78	0.1uF K B	C539	168-6822-55	6800pF K
C130	046-1022-58	50V 1000pF	C352	043-0552-90	6.3V 47uF M	C540	168-6822-55	6800pF K
C131	045-3901-50	39pFJ CH	C353	043-0559-90	6.3V 22uF	C541	168-6822-55	6800pF K
C132	045-1211-50	120pFJ CH	C354	168-1052-78	16V 1uF K	C542	168-6822-55	6800pF K
C133	045-4796-50	4.7pFJ CH	C355	046-1042-78	0.1uF K B	C543	168-1042-78	16V 0.1uF K
C134	045-1501-50	15pFJ CH	C356	046-1042-78	0.1uF K B	C544	168-2232-55	0.022uF K
C135	045-2211-50	220pFJ CH	C357	046-1042-78	0.1uF K B	C545	043-0604-90	25V 10uF B
C136	046-3922-58	3900pF K B	C358	045-2201-50	22pFJ CH	C546	046-1022-58	50V 1000pF
C137	046-1022-58	50V 1000pF	C360	046-1042-78	0.1uF K B	C547	043-7503-90	4.7uF
C138	046-1032-78	0.01uF K B	C361	046-1042-78	0.1uF K B	C548	043-6400-90	16V 4.7uF K
C139	046-1032-78	0.01uF K B	C362	046-1042-78	0.1uF K B	C553	043-0603-90	16V 10uF
C141	046-3322-58	3300pF K B	C364	046-1042-78	0.1uF K B	C554	043-0603-90	16V 10uF
C142	046-2232-78	0.022uF K B	C365	045-4711-50	470pFJ CH	C555	046-1042-78	0.1uF K B
C143	046-1022-58	50V 1000pF	C366	046-1022-58	50V 1000pF	C556	043-0552-90	6.3V 47uF M
C144	046-2232-78	0.022uF K B	C367	046-1042-78	0.1uF K B	C557	043-6400-90	16V 4.7uF K
C145	046-2232-78	0.022uF K B	C368	046-3322-58	3300pF K B	C558	043-0570-90	16V 2.2uF K
C146	046-2232-78	0.022uF K B	C369	046-3322-58	3300pF K B	C559	043-0570-90	16V 2.2uF K
C147	046-2232-78	0.022uF K B	C370	042-4033-90	6.3V 220uF	C562	046-1022-58	50V 1000pF
C148	043-0562-90	10V 0.22uF	C371	046-3322-58	3300pF K B	C564	168-4752-98	4.7uF K
C149	046-2232-78	0.022uF K B	C372	046-3322-58	3300pF K B	C565	043-0603-90	16V 10uF
C150	043-0563-90	16V 47uF	C373	046-1042-78	0.1uF K B	C568	046-1022-58	50V 1000pF
C161	043-0604-90	25V 10uF B	C375	046-3322-58	3300pF K B	C569	043-7503-90	4.7uF
C162	046-1042-78	0.1uF K B	C376	046-3322-58	3300pF K B	C570	043-6400-90	16V 4.7uF K
C202	046-2222-58	2200pF K B	C377	046-1522-58	1500pF K B	C571	043-0604-90	25V 10uF B
C203	046-1042-78	0.1uF K B	C378	046-1522-58	1500pF K B	C572	043-7701-90	2.2uF
C204	046-2222-58	2200pF K B	C379	046-1522-58	1500pF K B	C574	045-4701-50	47pF CH
C206	165-3363-25	10V 33uF	C380	046-1522-58	1500pF K B	C575	168-4742-78	0.47uF K
C219	168-4722-55	4700pF K	C381	043-0559-90	6.3V 22uF	C576	168-1042-38	50V 0.1uF K
C220	168-1022-55	1000pF K	C382	178-1052-78	25V 1uF	C577	046-1522-58	1500pF K B
C221	168-1022-55	1000pF K	C383	178-1052-78	25V 1uF	C578	045-2201-50	22pFJ CH
C301	043-0570-90	16V 2.2uF K	C386	178-1052-78	25V 1uF	C579	178-2242-38	0.22uF B
C302	043-0570-90	16V 2.2uF K	C387	178-1052-78	25V 1uF	C580	042-4000-90	16V 470uF
C303	043-0570-90	16V 2.2uF K	C401	046-1042-78	0.1uF K B	C581	165-4763-35	16V 47uF
C304	043-0570-90	16V 2.2uF K	C402	046-1042-78	0.1uF K B	C601	ADZ0184	16V 330uF
C305	045-2201-50	22pFJ CH	C403	166-2201-50	22pF CH	C602	045-2201-50	22pFJ CH
C306	045-2201-50	22pFJ CH	C404	166-2201-50	22pF CH	C606	046-1042-78	0.1uF K B
C309	046-1042-78	0.1uF K B	C405	168-4722-55	4700pF K	C607	043-4306-90	1uF
C310	168-1052-78	16V 1uF K	C406	168-2242-58	0.22uF K	C620	043-6400-90	16V 4.7uF K
C312	046-1042-78	0.1uF K B	C407	168-4752-98	4.7uF K	C621	043-7503-90	4.7uF
C314	045-2201-50	22pFJ CH	C408	004-1580-14	45pF	C622	043-4306-90	1uF
C315	045-2201-50	22pFJ CH	C410	046-1042-78	0.1uF K B	C623	045-2201-50	22pFJ CH
C316	046-1042-78	0.1uF K B	C411	165-4763-15	6.3V 47uF	C626	046-1022-58	50V 1000pF
C317	046-1042-78	0.1uF K B	C412	045-2701-50	27pFJ CH	D104	001-9013-90	BA891
C318	046-1042-78	0.1uF K B	C413	046-1042-78	0.1uF K B	D105	001-0580-90	1SS352
C319	046-1042-78	0.1uF K B	C414	046-1032-78	0.01uF K B	D106	001-9013-90	BA891
C320	043-0570-90	16V 2.2uF K	C415	046-1022-58	50V 1000pF	D401	001-2630-90	1SS420-TPL3,F
C321	043-0570-90	16V 2.2uF K	C416	046-1022-58	50V 1000pF	D501	001-2412-90	RR264M-400
C322	168-4752-98	4.7uF K	C417	046-1022-58	50V 1000pF	D502	001-0580-90	1SS352
C323	168-4752-98	4.7uF K	C418	042-2273-25	10V 220uF M	D503	001-2412-90	RR264M-400
C324	046-1042-78	0.1uF K B	C419	042-2273-25	10V 220uF M	D504	001-2412-90	RR264M-400
C325	046-1042-78	0.1uF K B	C420	045-1011-50	100pFJ CH	D505	001-2639-90	RSX201L-30
C326	046-1042-78	0.1uF K B	C517	168-1542-58	0.15uF K	D506	001-2628-90	RB160M-40
C327	046-1042-78	0.1uF K B	C518	168-1542-58	0.15uF K	IC101	-----	TEF7000
C328	046-1042-78	0.1uF K B	C519	168-1542-58	0.15uF K			(Tuner)
C329	045-1007-50	10 +/-0.5pF CH	C520	168-1542-58	0.15uF K			(Thermal pad)
C330	045-1007-50	10 +/-0.5pF CH	C521	168-1542-58	0.15uF K			(402590-051)
C331	046-1042-78	0.1uF K B	C522	168-1542-58	0.15uF K	IC301	051-3034-90	NJM4558V
C333	168-4752-98	4.7uF K	C523	168-1542-58	0.15uF K	IC302	-----	SAF7741HV/ N125(DSP)
C335	046-1042-78	0.1uF K B	C524	168-1542-58	0.15uF K			(Thermal pad)
C336	046-1042-78	0.1uF K B	C525	168-1052-78	16V 1uF K			(674700-051)
C337	046-1042-78	0.1uF K B	C526	042-1760-90	16V 10uF M	IC303	051-7106-90	CD4052B-PWR
C338	042-4033-90	6.3V 220uF	C527	178-2742-78	0.27uF	IC401	-----	S-24C16CI- T8T5U3
C339	046-1042-78	0.1uF K B	C528	168-1052-78	16V 1uF K			(E2P-ROM)
C340	168-4752-98	4.7uF K	C530	043-0574-90	25V 1.0uF			(Software should be written on production)
C341	045-2201-50	22pFJ CH	C532	168-1832-55	0.018uF K			(942650-051)
C342	046-1042-78	0.1uF K B	C533	043-5600-90	0.10uF			
C345	046-1042-78	0.1uF K B	C534	042-1717-00	16V 3300uF			
C347	168-1052-78	16V 1uF K	C535	168-6822-55	6800pF K			

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
IC402	-----	R5F64177PFB (Micro computer) (Software should be written on production) (033320-052)	L321	010-3104-54	600 ohm/100MHz	R326	033-1031-15	1/16W 10k ohm J
IC403	051-6647-80	TJA1051T,118	L322	010-3104-54	600 ohm/100MHz	R327	032-0221-56	1/16W 22k ohm F
IC404	051-5481-90	S-1009N30I- M5T1U	L323	010-3104-54	600 ohm/100MHz	R329	032-0221-56	1/16W 22k ohm F
IC502	051-2067-00	TB2946HQ	L401	010-3406-54	2.2uH J	R331	032-0221-56	1/16W 22k ohm F
IC504	051-5443-08	BD4850G-TR	L501	010-8049-00	145uH	R332	119-2201-15	1/10W 22 ohm
IC505	-----	BD00C0AWFP (Voltage regulator) (Thermal pad) (358290-051)	L507	010-3104-54	600 ohm/100MHz	R334	033-1041-15	1/16W 100k ohm J
IC507	051-3034-90	NJM4558V	L508	010-3414-93	4.7uH	R335	033-1041-15	1/16W 100k ohm J
IC508	051-3579-90	S1112B15MCL6 ATFG	P101	092-2210-01	ANT-RECEPT	R338	033-4731-15	1/16W 47k ohm J
IC509	051-3708-90	S-1112B33MC- L6STFG	P410	076-3011-76	26P	R344	033-1011-15	1/16W 100 ohm J
IC511	-----	BD00C0AWFP (Voltage regulator) (Thermal pad) (358290-051)	P602	076-3060-26	26P	R348	033-1031-15	1/16W 10k ohm J
IC513	-----	BD00D0AWHFP- TR (Voltage regulator) (Thermal pad) (370990-051)	Q107	190-2060-00	2SA2060	R349	033-1011-15	1/16W 100 ohm J
IC514	-----	LT3481EDD #TRPBF (SW-REGULATOR) (thermal pad) (361280-051)	Q108	125-2046-95	DTC143ZUB	R350	033-1011-15	1/16W 100 ohm J
IC601	051-3716-91	NJM2865F05 (TE1)	Q301	125-2046-95	DTC143ZUB	R352	033-1011-15	1/16W 100 ohm J
IC604	051-3034-90	NJM4558V	Q302	125-7021-90	RQ1A060ZPTR	R354	033-1011-15	1/16W 100 ohm J
IC605	-----	BD00D0AWHFP -TR (Voltage regulator) (Thermal pad) (370990-051)	Q505	191-1197-50	2SB1197K Q,R	R355	033-1031-15	1/16W 10k ohm J
J201	074-2260-88	38P	Q506	192-4116-00	2SC4116	R356	119-0000-05	1/10W 0 ohm JW
J203	074-1302-16	16P	Q507	125-2046-91	DTC114EUBTL	R357	119-0000-05	1/10W 0 ohm JW
J204	074-1302-08	8P	Q509	125-2046-91	DTC114EUBTL	R358	033-1011-15	1/16W 100 ohm J
J501	074-4009-20	20P	Q510	125-2032-93	RN1303	R359	119-2201-15	1/10W 22 ohm
L110	010-3062-54	290nH	Q511	192-4081-00	2SC4081	R360	032-0150-54	1/16W 1k ohm F
L111	010-3406-56	3.3uH J	Q512	191-1197-50	2SB1197K Q,R	R361	032-0150-54	1/16W 1k ohm F
L112	010-3062-56	0.5uH	Q513	125-2046-91	DTC114EUBTL	R362	032-0150-54	1/16W 1k ohm F
L113	010-3062-53	0.215uH	Q514	192-4116-51	2SC4116 G,L	R363	032-0150-54	1/16W 1k ohm F
L114	010-3439-51	1.8uH	Q515	191-1197-50	2SB1197K Q,R	R364	033-3331-15	1/16W 33k ohm J
L115	010-2290-52	330uH	Q516	125-2046-91	DTC114EUBTL	R365	033-3331-15	1/16W 33k ohm J
L116	010-2290-52	330uH	R102	119-0000-05	1/10W 0 ohm JW	R366	032-0150-51	1/16W 15k ohm F
L117	010-3104-54	600 ohm/100MHz	R115	033-0000-05	1/16W 0 ohm	R367	032-0150-51	1/16W 15k ohm F
L301	010-3104-54	600 ohm/100MHz	R124	033-1811-15	1/16W 180 ohm J	R368	032-0150-51	1/16W 15k ohm F
L302	010-3104-54	600 ohm/100MHz	R125	033-3311-15	1/16W 330 ohm J	R369	032-0150-51	1/16W 15k ohm F
L303	010-3104-54	600 ohm/100MHz	R126	033-4741-15	1/16W 470k ohm J	R405	033-0000-05	1/16W 0 ohm
L304	010-3104-54	600 ohm/100MHz	R127	033-1201-15	1/16W 12 ohm	R411	033-1011-15	1/16W 100 ohm J
L305	010-3104-54	600 ohm/100MHz	R128	033-4741-15	1/16W 470k ohm J	R412	033-1011-15	1/16W 100 ohm J
L306	010-3104-54	600 ohm/100MHz	R129	033-5601-15	1/16W 56 ohm J	R413	119-4711-15	1/10W 470 ohm
L307	010-3104-54	600 ohm/100MHz	R134	033-2231-15	1/16W 22k ohm J	R414	119-4711-15	1/10W 470 ohm
L308	010-3104-54	600 ohm/100MHz	R135	033-3921-15	1/16W 3.9k ohm J	R415	119-4711-15	1/10W 470 ohm
L309	010-3104-54	600 ohm/100MHz	R136	033-0000-05	1/16W 0 ohm	R416	119-4711-15	1/10W 470 ohm
L310	010-3104-54	600 ohm/100MHz	R137	033-0000-05	1/16W 0 ohm	R418	033-1041-15	1/16W 100k ohm J
L311	010-3104-54	600 ohm/100MHz	R138	033-0000-05	1/16W 0 ohm	R419	033-3311-15	1/16W 330 ohm J
L312	010-3104-54	600 ohm/100MHz	R139	033-0000-05	1/16W 0 ohm	R420	033-3311-15	1/16W 330 ohm J
L313	010-3104-54	600 ohm/100MHz	R140	033-0000-05	1/16W 0 ohm	R421	033-1041-15	1/16W 100k ohm J
L314	010-3104-54	600 ohm/100MHz	R143	033-0000-05	1/16W 0 ohm	R422	033-2221-15	1/16W 2.2k ohm J
L315	010-3104-54	600 ohm/100MHz	R144	033-0000-05	1/16W 0 ohm	R423	033-2221-15	1/16W 2.2k ohm J
L316	010-3104-54	600 ohm/100MHz	R146	116-1091-15	1/4W 1 ohm	R424	119-1031-15	1/10W 10k ohm
L317	010-3104-54	600 ohm/100MHz	R147	116-1221-15	1/4W 1.2k ohm	R425	119-1031-15	1/10W 10k ohm
L318	010-3104-54	600 ohm/100MHz	R151	033-1031-15	1/16W 10k ohm J	R426	119-1031-15	1/10W 10k ohm
L319	010-3104-54	600 ohm/100MHz	R152	033-0000-05	1/16W 0 ohm	R427	119-1031-15	1/10W 10k ohm
L320	010-3105-70	240ohm/100MHz	R156	119-0000-05	1/10W 0 ohm JW	R428	033-1031-15	1/16W 10k ohm J
			R157	033-1051-15	1/16W 1M ohm J	R429	033-1031-15	1/16W 10k ohm J
			R158	033-1051-15	1/16W 1M ohm J	R430	033-1011-15	1/16W 100 ohm J
			R203	033-1011-15	1/16W 100 ohm J	R431	033-1011-15	1/16W 100 ohm J
			R220	116-6201-15	1/4W 62 ohm	R432	116-6201-15	1/4W 62 ohm
			R221	116-6201-15	1/4W 62 ohm	R433	116-6201-15	1/4W 62 ohm
			R225	119-0000-05	1/10W 0 ohm JW	R434	033-0000-05	1/16W 0 ohm
			R226	119-0000-05	1/10W 0 ohm JW	R435	033-4731-15	1/16W 47k ohm J
			R301	119-1031-15	1/10W 10k ohm	R436	033-4731-15	1/16W 47k ohm J
			R302	119-1031-15	1/10W 10k ohm	R437	033-1031-15	1/16W 10k ohm J
			R303	032-0140-89	1/10W 47k ohm F	R440	033-4731-15	1/16W 47k ohm J
			R304	032-0140-89	1/10W 47k ohm F	R442	119-4791-15	1/10W 4.7 ohm
			R305	032-0140-89	1/10W 47k ohm F	R445	033-0000-05	1/16W 0 ohm
			R306	032-0140-89	1/10W 47k ohm F	R446	033-4721-15	1/16W 4.7k ohm J
			R307	033-1031-15	1/16W 10k ohm J	R447	033-4731-15	1/16W 47k ohm J
			R308	032-0140-89	1/10W 47k ohm F	R448	033-1031-15	1/16W 10k ohm J
			R309	032-0140-89	1/10W 47k ohm F	R449	033-4731-15	1/16W 47k ohm J
			R310	032-0140-89	1/10W 47k ohm F	R450	033-1021-15	1/16W 1k ohm J
			R311	032-0140-89	1/10W 47k ohm F	R451	033-1011-15	1/16W 100 ohm J
			R313	033-1031-15	1/16W 10k ohm J	R454	033-1011-15	1/16W 100 ohm J
			R318	033-1811-15	1/16W 180 ohm J	R456	033-1021-15	1/16W 1k ohm J
			R319	033-1811-15	1/16W 180 ohm J	R457	033-4721-15	1/16W 4.7k ohm J
			R320	033-1031-15	1/16W 10k ohm J	R458	033-1011-15	1/16W 100 ohm J
			R321	033-1031-15	1/16W 10k ohm J	R459	033-1011-15	1/16W 100 ohm J
			R322	033-1031-15	1/16W 10k ohm J	R460	033-4731-15	1/16W 47k ohm J
			R323	033-1011-15	1/16W 10k ohm J	R462	033-3331-15	1/16W 33k ohm J
			R324	033-1031-15	1/16W 10k ohm J	R463	033-3331-15	1/16W 33k ohm J
			R325	032-0221-56	1/16W 22k ohm F	R466	033-2231-15	1/16W 22k ohm J

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
R467	033-4721-15	1/16W 4.7k ohm J	R555	032-0221-51	1/16W 4.7k ohm F	RN401	050-0140-52	1/32W 100 ohm x4J
R468	033-4721-15	1/16W 4.7k ohm J	R556	032-0221-51	1/16W 4.7k ohm F	RN402	050-0140-52	1/32W 100 ohm x4J
R475	033-4731-15	1/16W 47k ohm J	R557	033-5611-15	1/16W 560 ohm J	RN405	050-0140-63	1/32W 47k ohm x4J
R479	033-3321-15	1/16W 3.3k ohm J	R558	033-1031-15	1/16W 10k ohm J	RN406	050-0140-63	1/32W 47k ohm x4J
R480	033-3321-15	1/16W 3.3k ohm J	R560	032-0221-76	1/16W 24k ohm F	RN407	050-0140-54	1/32W 1k ohm x4J
R481	033-2221-15	1/16W 2.2k ohm J	R561	032-0221-61	1/16W 6.8k ohm F	RN408	050-0140-54	1/32W 1k ohm x4J
R488	033-1021-15	1/16W 1k ohm J	R562	033-0000-05	1/16W 0 ohm	RN409	050-0140-54	1/32W 1k ohm x4J
R489	033-1021-15	1/16W 1k ohm J	R563	033-0000-05	1/16W 0 ohm	T101	010-4100-50	0.215uH
R490	033-1021-15	1/16W 1k ohm J	R564	033-0000-05	1/16W 0 ohm	TH101	002-0229-00	PTH8L05BAIR8
R491	033-1021-15	1/16W 1k ohm J	R565	033-0000-05	1/16W 0 ohm			M1B
R492	033-0000-05	1/16W 0 ohm	R567	032-0221-65	1/16W 68k ohm F	VR213	001-9210-50	AVR-M1608C270
R493	033-0000-05	1/16W 0 ohm	R568	032-0221-61	1/16W 6.8k ohm F			MTAAD
R495	033-3321-15	1/16W 3.3k ohm J	R575	033-0000-05	1/16W 0 ohm	VR214	001-9210-50	AVR-M1608C270
R496	033-3321-15	1/16W 3.3k ohm J	R576	032-0148-64	1/10W 390k ohm D			MTAAD
R497	033-1031-15	1/16W 10k ohm J	R577	032-0148-63	1/10W 130k ohm D	VR215	001-9210-50	AVR-M1608C270
R521	033-1031-15	1/16W 10k ohm J	R578	033-1841-15	1/16W 180k ohm J			MTAAD
R522	033-3331-15	1/16W 33k ohm J	R579	033-3341-15	1/16W 330k ohm J	VR216	001-9210-50	AVR-M1608C270
R527	033-1821-15	1/16W 1.8k ohm J	R581	033-1031-15	1/16W 10k ohm J			MTAAD
R528	033-1031-15	1/16W 10k ohm J	R582	032-0150-51	1/16W 15k ohm F	VR217	001-9210-50	AVR-M1608C270
R529	119-5611-15	1/10W 560 ohm	R583	033-5611-15	1/16W 560 ohm J			MTAAD
R530	119-1031-15	1/10W 10k ohm	R584	033-1031-15	1/16W 10k ohm J	VR218	001-9210-50	AVR-M1608C270
R531	032-0208-51	1/4W 15k ohm	R585	119-0000-05	1/10W 0 ohm JW			MTAAD
R533	AQZ0457	1/16W 150k ohm 1%	R588	033-0000-05	1/16W 0 ohm	VR502	001-9210-50	AVR-M1608C270
R534	AQZ0461	1/16W 270k ohm 1%	R589	033-0000-05	1/16W 0 ohm			MTAAD
R535	033-4731-15	1/16W 47k ohm J	R590	033-0000-05	1/16W 0 ohm	VR503	001-9210-50	AVR-M1608C270
R536	033-1031-15	1/16W 10k ohm J	R591	033-0000-05	1/16W 0 ohm			MTAAD
R537	119-4731-15	1/10W 47k ohm	R592	116-3991-15	1/4W 3.9 ohm	VR504	001-9210-50	AVR-M1608C270
R538	119-2731-15	1/10W 27k ohm	R593	116-3991-15	1/4W 3.9 ohm			MTAAD
R539	119-3321-15	1/10W 3.3k ohm	R605	116-6891-15	1/4W 6.8 ohm	X301	061-3589-90	41.6MHz
R540	119-0000-05	1/10W 0 ohm JW	R615	033-2231-15	1/16W 22k ohm J	X401	061-3567-90	8.000MHz AT- 41CD2
R541	119-0000-05	1/10W 0 ohm JW	R616	033-1041-15	1/16W 100k ohm J	ZD101	060-8107-50	SURGE PROTECTOR
R542	119-0000-05	1/10W 0 ohm JW	R618	033-2231-15	1/16W 22k ohm J			
R543	116-4721-15	1/4W 4.7k ohm	R621	032-0221-65	1/16W 68k ohm F	ZD501	001-4312-34	02DZ6.2X TPH3-F
R544	119-2221-15	1/10W 2.2k ohm	R622	032-0221-80	1/16W 6.2k ohm F	ZD503	001-4305-25	UDZSTE-17 9.1B
R546	116-1531-15	1/4W 15k ohm	R623	033-1041-15	1/16W 100k ohm J	ZD507	001-4912-90	SM5S22A-HE3/2D
R547	116-4791-15	1/4W 4.7 ohm	R624	033-2231-15	1/16W 22k ohm J	ZD508	001-4312-47	02DZ9.1Y TPH3-F
R548	116-4791-15	1/4W 4.7 ohm	R625	119-0000-05	1/10W 0 ohm JW	PWB	039-3869-01	PWB(WITHOUT COMPONENTS)
R550	032-0221-65	1/16W 68k ohm F	R635	119-0000-05	1/10W 0 ohm JW			
R551	032-0221-80	1/16W 6.2k ohm F	R636	033-1001-15	1/16W 10 ohm J			
			R637	033-1001-15	1/16W 10 ohm J			
			R638	033-1041-15	1/16W 100k ohm J			

SW PWB(B2) section

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
C601	043-0568-90	25V 2.2uF	D624	001-7109-90	SML-311DTT86	R613	116-3321-15	1/4W 3.3k ohm
C602	043-0568-90	25V 2.2uF			ORG	R614	116-3321-15	1/4W 3.3k ohm
C603	043-0552-90	6.3V 47uF M	D625	001-7109-90	SML-311DTT86	R615	116-3321-15	1/4W 3.3k ohm
C604	045-4711-50	470pFJ CH			ORG	R616	116-1521-15	1/4W 1.5k ohm
C605	043-0568-90	25V 2.2uF	D626	001-7109-90	SML-311DTT86	R617	116-1521-15	1/4W 1.5k ohm
C606	046-1022-58	50V 1000pF			ORG	R618	116-1521-15	1/4W 1.5k ohm
C607	046-1022-58	50V 1000pF	D627	001-7109-90	SML-311DTT86	R619	116-1521-15	1/4W 1.5k ohm
C608	046-1022-58	50V 1000pF			ORG	R620	116-1821-15	1/4W 1.8k ohm
C609	043-0552-90	6.3V 47uF M	D628	001-7109-90	SML-311DTT86	R621	116-1821-15	1/4W 1.8k ohm
C610	043-6400-90	16V 4.7uF K			ORG	R622	116-1511-15	1/4W 150 ohm
D601	001-7109-90	SML-311DTT86	D629	001-7109-90	SML-311DTT86	R623	116-1511-15	1/4W 150 ohm
		ORG			ORG	R624	116-1511-15	1/4W 150 ohm
D602	001-7109-90	SML-311DTT86	D630	001-7109-90	SML-311DTT86	R625	116-1511-15	1/4W 150 ohm
		ORG			ORG	R626	116-1511-15	1/4W 150 ohm
D603	001-7109-90	SML-311DTT86	D631	001-7148-90	NSSB064-EE7-	R627	116-1511-15	1/4W 150 ohm
		ORG			TKMLP4R2	R635	032-0150-55	1/16W 2.7k ohm F
D604	001-7109-90	SML-311DTT86	D632	001-7148-90	NSSB064-EE7-	R636	032-0150-55	1/16W 2.7k ohm F
		ORG			TKMLP4R2	R637	032-0150-55	1/16W 2.7k ohm F
D605	001-7109-90	SML-311DTT86	D633	001-7148-90	NSSB064-EE7-	R638	032-0150-55	1/16W 2.7k ohm F
		ORG			TKMLP4R2	R651	032-0140-72	1/10W 470 ohm F
D606	001-7109-90	SML-311DTT86	D634	001-7148-90	NSSB064-EE7-	SW601	013-6202-52	SKPMBJE010
		ORG			TKMLP4R2	SW602	013-6201-53	SKPMAPE010
D607	001-7109-90	SML-311DTT86	D635	001-7148-90	NSSB064-EE7-	SW603	013-6201-53	SKPMAPE010
		ORG			TKMLP4R2	SW604	016-7006-00	ROTARY SW
D608	001-7109-90	SML-311DTT86	D636	001-7148-90	NSSB064-EE7-	SW605	016-7006-00	ROTARY SW
		ORG			TKMLP4R2	SW606	013-6202-52	SKPMBJE010
D609	001-7109-90	SML-311DTT86	D637	001-7148-90	NSSB064-EE7-	SW607	013-6202-52	SKPMBJE010
		ORG			TKMLP4R2	SW608	013-6202-52	SKPMBJE010
D610	001-7109-90	SML-311DTT86	D638	001-7148-90	NSSB064-EE7-	SW609	013-6202-52	SKPMBJE010
		ORG			TKMLP4R2	SW610	013-6202-52	SKPMBJE010
D611	001-7109-90	SML-311DTT86	D639	001-7148-90	NSSB064-EE7-	SW611	013-6202-52	SKPMBJE010
		ORG			TKMLP4R2	SW612	013-6201-53	SKPMAPE010
D612	001-7109-90	SML-311DTT86	D640	001-7148-90	NSSB064-EE7-	SW613	013-6201-53	SKPMAPE010
		ORG			TKMLP4R2	SW614	013-6201-53	SKPMAPE010
D613	001-7109-90	SML-311DTT86	D641	001-7148-90	NSSB064-EE7-	SW615	013-6201-53	SKPMAPE010
		ORG			TKMLP4R2	SW616	013-6202-52	SKPMBJE010
D614	001-7109-90	SML-311DTT86	D642	001-7148-90	NSSB064-EE7-	SW617	013-6202-52	SKPMBJE010
		ORG			TKMLP4R2	SW618	013-6202-52	SKPMBJE010
D615	001-7109-90	SML-311DTT86	IC601	051-6105-00	LC75818PHT-	SW619	013-6202-52	SKPMBJE010
		ORG			8561-H	SW620	013-6202-52	SKPMBJE010
D616	001-7109-90	SML-311DTT86	J601	075-0395-01	JACK	VR601	001-9210-50	AVR-M1608C270
		ORG	J602	074-3055-26	26P			MTAAD
D617	001-7109-90	SML-311DTT86	LC601	379-1462-53	LCD	VR602	001-9210-50	AVR-M1608C270
		ORG	R601	033-0000-05	1/16W 0 ohm			MTAAD
D618	001-7109-90	SML-311DTT86	R602	032-0225-64	1/16W 9.1k ohm +/-	VR603	001-9210-50	AVR-M1608C270
		ORG			0.5%			MTAAD
D619	001-7109-90	SML-311DTT86	R603	116-1521-15	1/4W 1.5k ohm	VR604	001-9210-50	AVR-M1608C270
		ORG	R604	116-1021-15	1/4W 1k ohm			MTAAD
D620	001-7109-90	SML-311DTT86	R605	116-1521-15	1/4W 1.5k ohm	ZD601	001-4312-32	02DZ5.6Y TPH3-F
		ORG	R606	116-1521-15	1/4W 1.5k ohm	ZD602	001-4312-32	02DZ5.6Y TPH3-F
D621	001-7109-90	SML-311DTT86	R607	116-1021-15	1/4W 1k ohm	ZD606	001-4312-32	02DZ5.6Y TPH3-F
		ORG	R608	116-1021-15	1/4W 1k ohm	ZD608	001-4312-32	02DZ5.6Y TPH3-F
D622	001-7109-90	SML-311DTT86	R609	116-1021-15	1/4W 1k ohm	ZD610	001-4312-32	02DZ5.6Y TPH3-F
		ORG	R610	116-3321-15	1/4W 3.3k ohm	ZD611	001-4312-32	02DZ5.6Y TPH3-F
D623	001-7109-90	SML-311DTT86	R611	116-3321-15	1/4W 3.3k ohm	PWB	039-3797-00	PWB(WITHOUT
		ORG	R612	116-3321-15	1/4W 3.3k ohm			COMPONENTS)

CONNECTOR PWB(B3) section

REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION	REF NO.	PART NO.	DESCRIPTION
C101	168-4752-98	4.7uF K	IC102	-----	BD00D0AWHFP-	R101	032-0221-76	1/16W 24k ohm F
C102	043-0603-90	16V 10uF			TR	R102	032-0221-61	1/16W 6.8k ohm F
C103	046-1022-58	50V 1000pF			(Voltage regulator)	R104	032-0221-65	1/16W 68k ohm F
C104	043-6400-90	16V 4.7uF K			(Thermal pad)	R105	032-0221-62	1/16W 8.2k ohm F
C105	043-0603-90	16V 10uF			(370990-051)	PWB	039-3888-00	PWB(WITHOUT
C106	046-1022-58	50V 1000pF	IC103	-----	BD00D0AWHFP-			COMPONENTS)
IC101	060-8141-01	VPDASF-14F405-GA			TR			
					(Voltage regulator)			
					(Thermal pad)			
					(370990-051)			

# FUNDAMENTAL SPECIFICATION

(Note: "X"=Available, "NA"= Not Available, "(X)"=Support design)

FUNCTION	DESTINATION	RADIO									CD	
		BAND	AUTO-TUNING	FM DIVERSITY	ANT-AMP CONNECT	FM-RBDS	FM RDS AF	FM-TA	FM RDS EON	FM RDS TMC	TYPE	FORMAT
APPLICATION	NAM	AM/FM1/FM2	SEEK/SCAN	NA	X	X PS, PTY	NA	NA	NA	NA	1CD MP3/WMA	CD-DA, CD-R, CD-RW

FUNCTION	CD	AUDIO INPUT					AUDIO CONTROL					EQ SEL
	SHOCK PROOF	CD-CHG CONTROL	iPod CONTROL	AUX CONNECT	BLUETOOTH-AUDIO CONNECT	NAVI-SIGNAL CONNECT	PRE OUTPUT	BASS /TREBLE	LOUDNESS (DYNAMIC)	FIX EQ	SOUND FOCUS	
APPLICATION	NA	NA	NA	X	X	NA	NA	X	X	X	NA	X

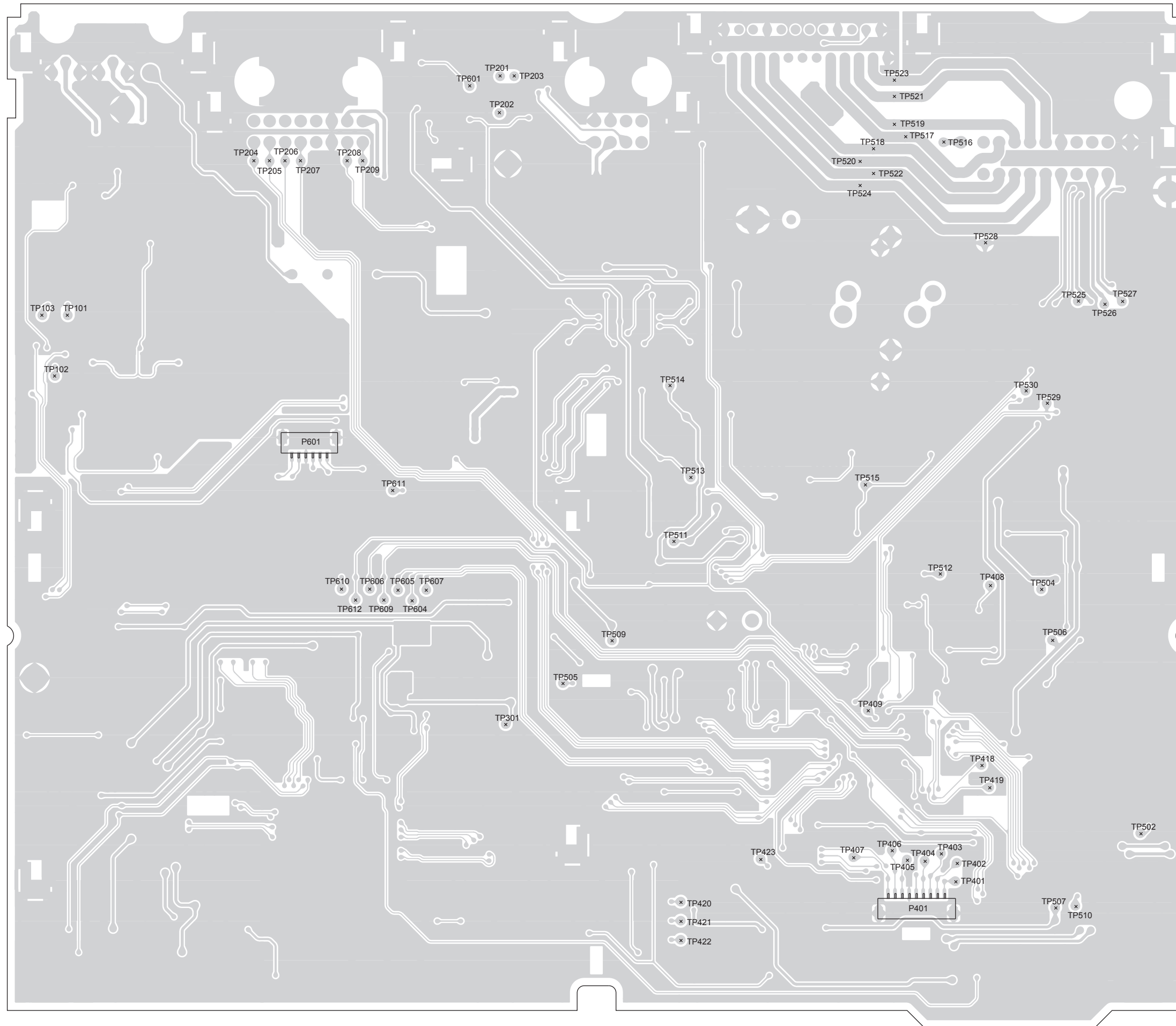
FUNCTION	AUDIO OUTPUT		SSV	STEERING REMOTE CONTROL	CONNECTED ANTENNA	ANTI THEFT	TEL MIC INPUT	BLUETOOTH INTERNAL PHONE SYSTEM	ILLUMI CONTROL	CLOCK	METER M-CAN COMMUNICATION	TEL M-CAN COMMUNICATION
	AUDIO OUTPUT	OUTPUT POWER										
APPLICATION	POWER OUTPUT	45W X 4ch/2ohm	X	X (M-CAN)	ACTIVE	NA	X	X	X	X	X (Including SRC)	NA

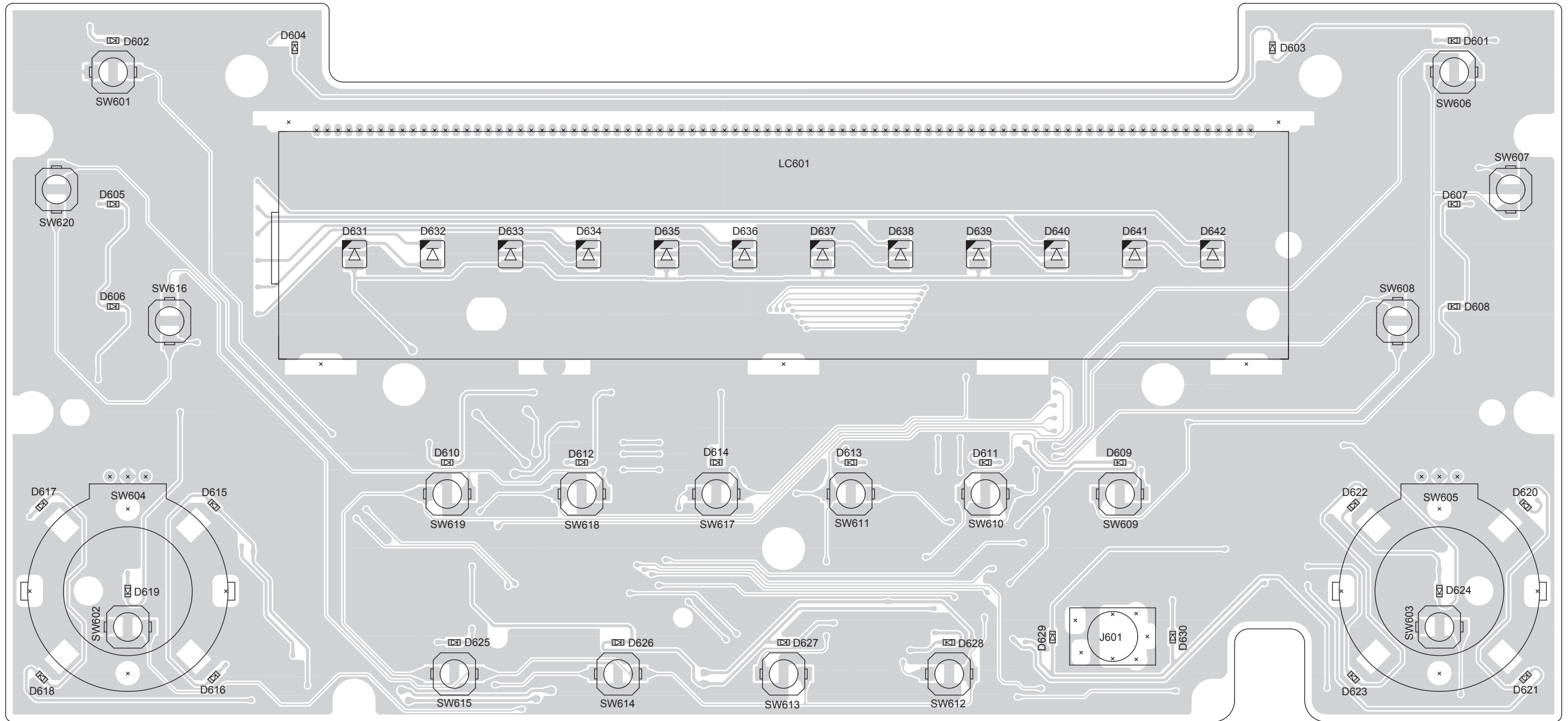
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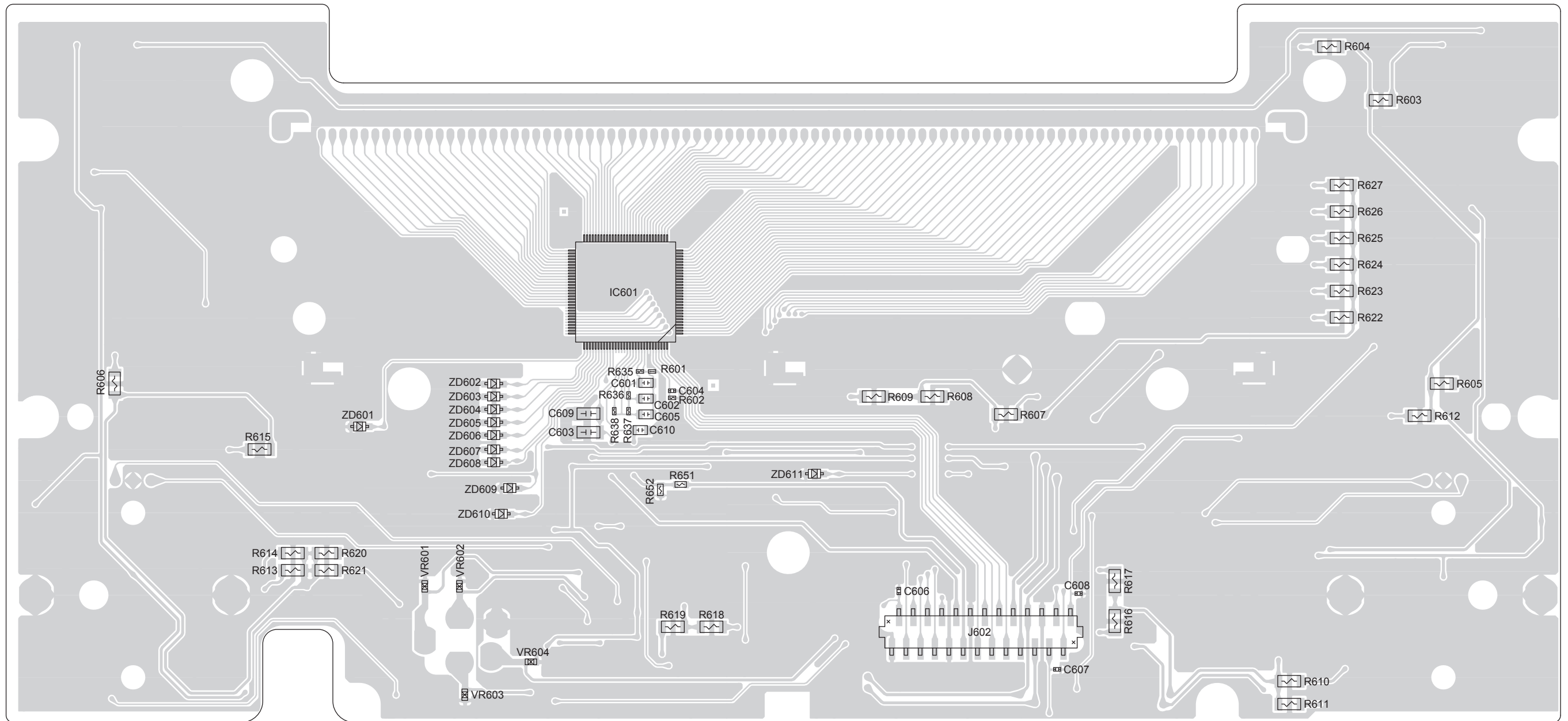




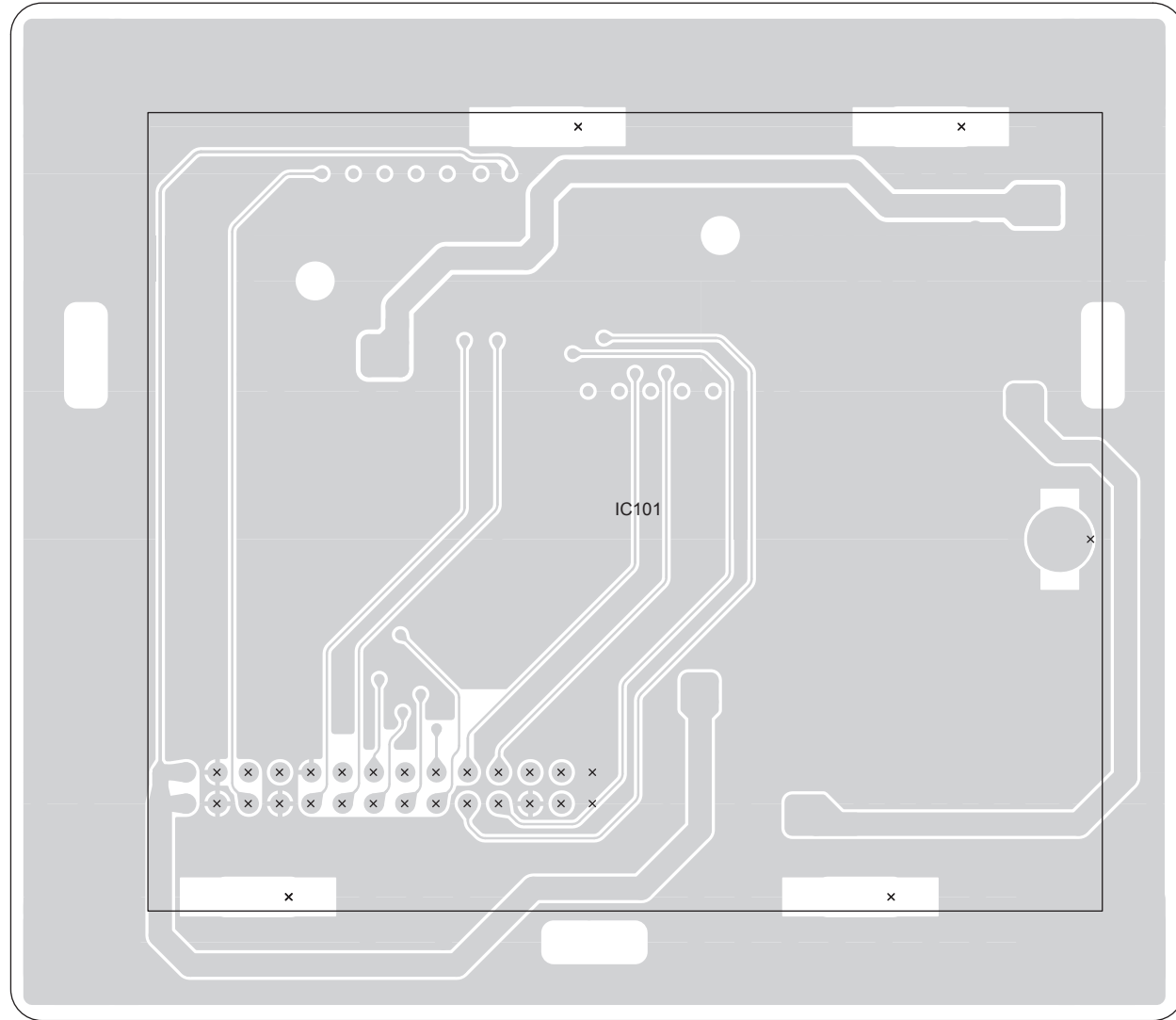




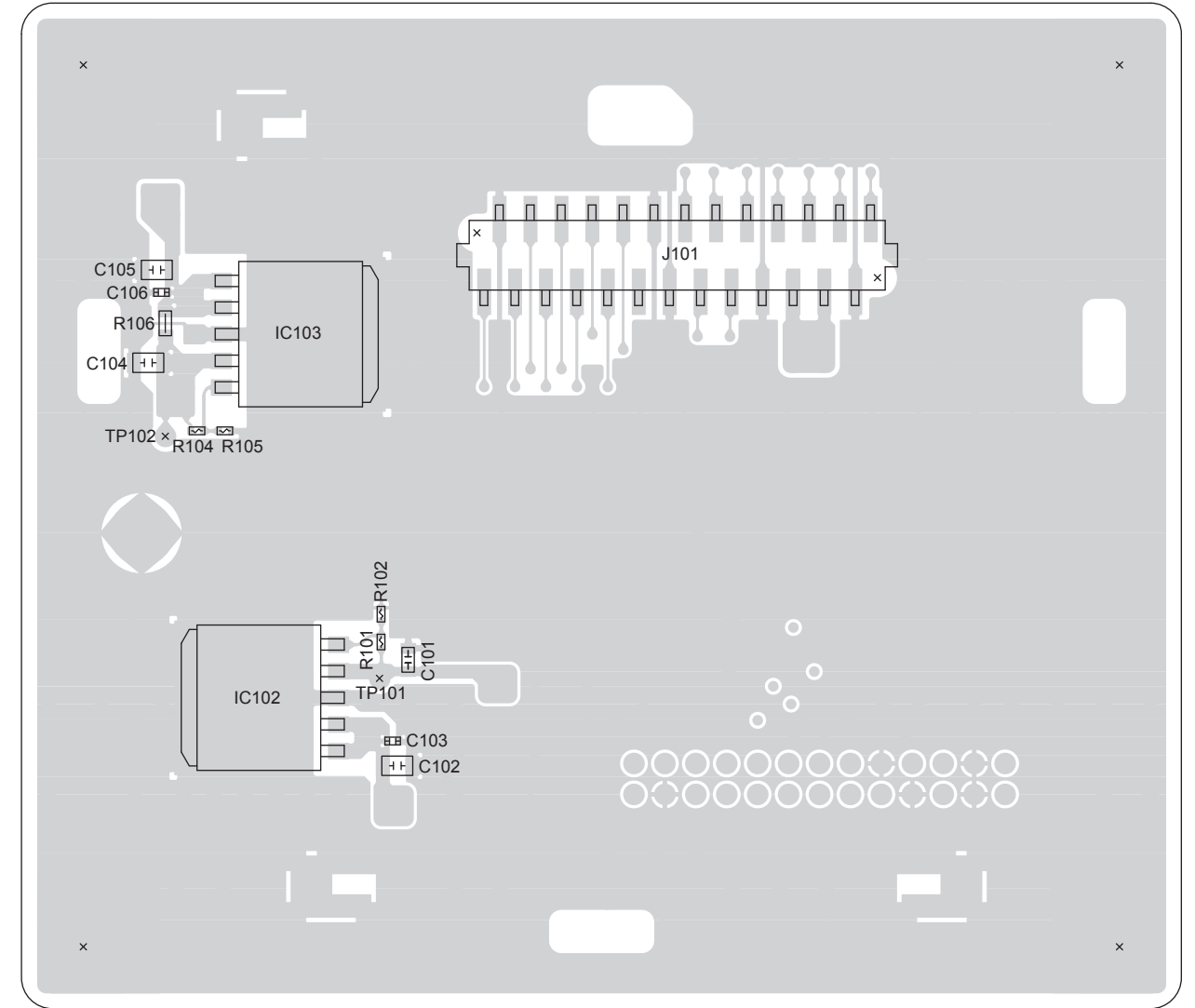




[ Top view ]



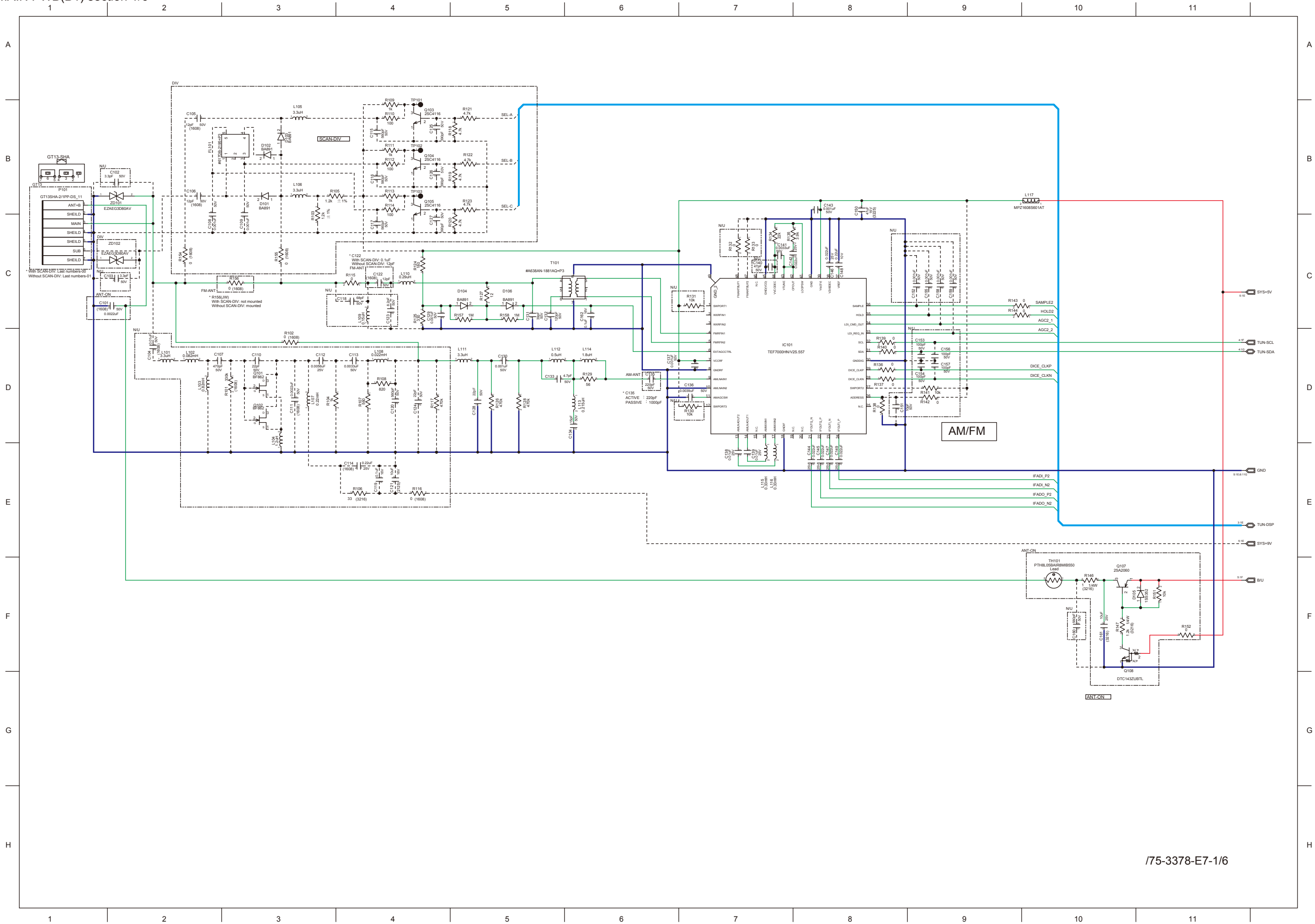
[ Bottom view ]



# CIRCUIT DIAGRAM

## MAIN PWB(B1) section 1/6

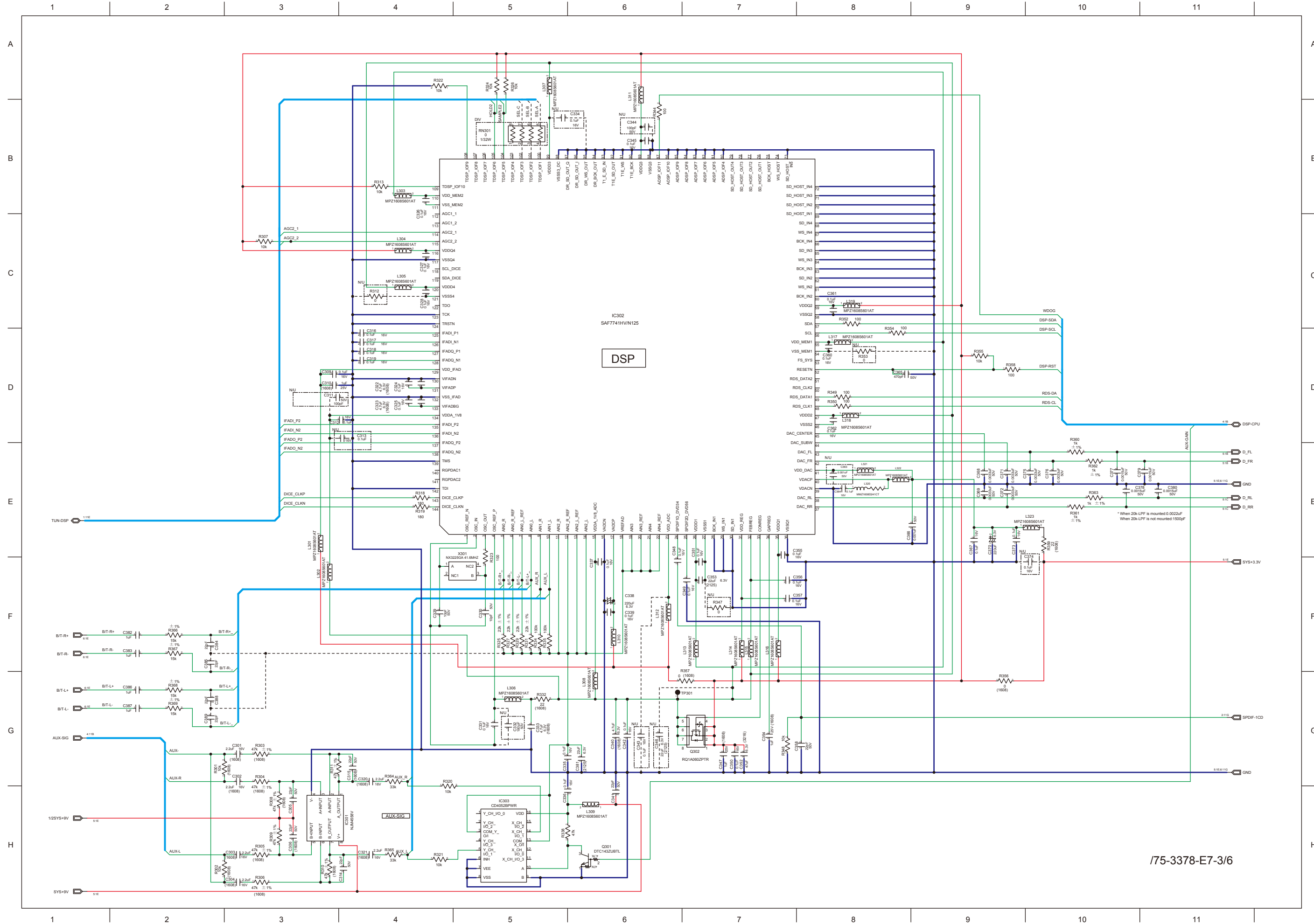
Some parts shown in this illustration may not actually be mounted.  
Refer to the electrical part list regarding parts actually mounted to the PWB.



/75-3378-E7-1/6

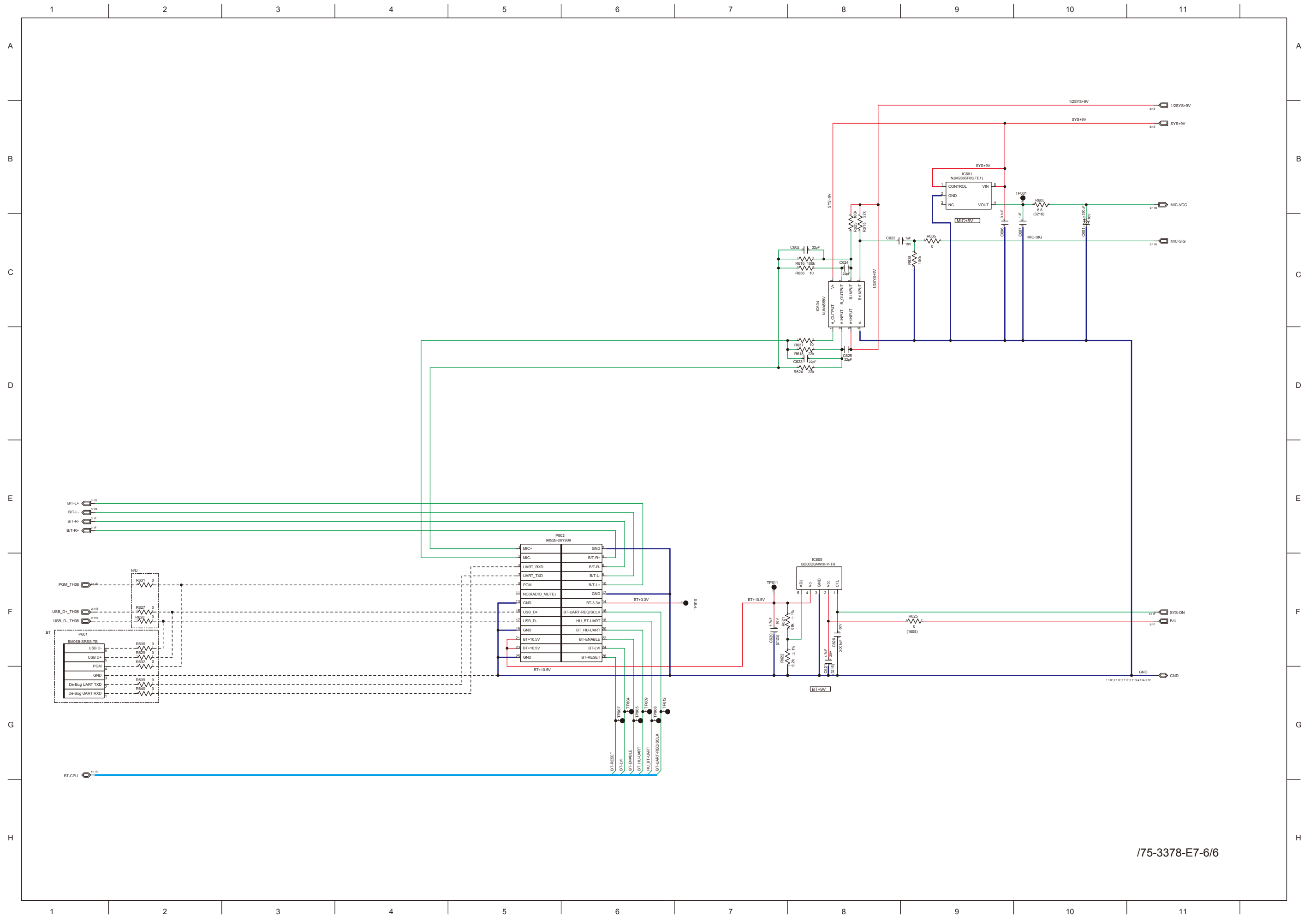


MAIN PWB(B1) section 3/6

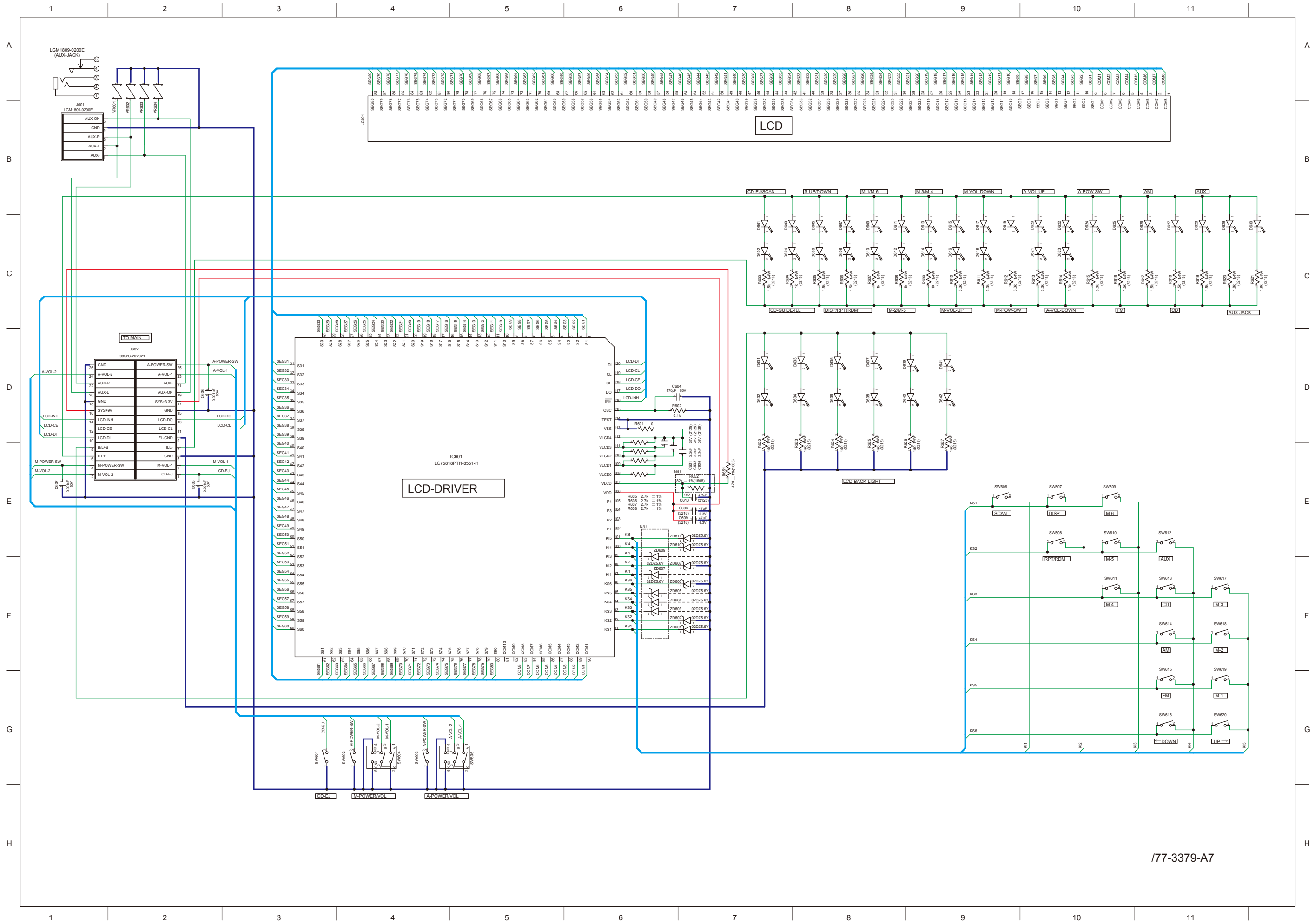






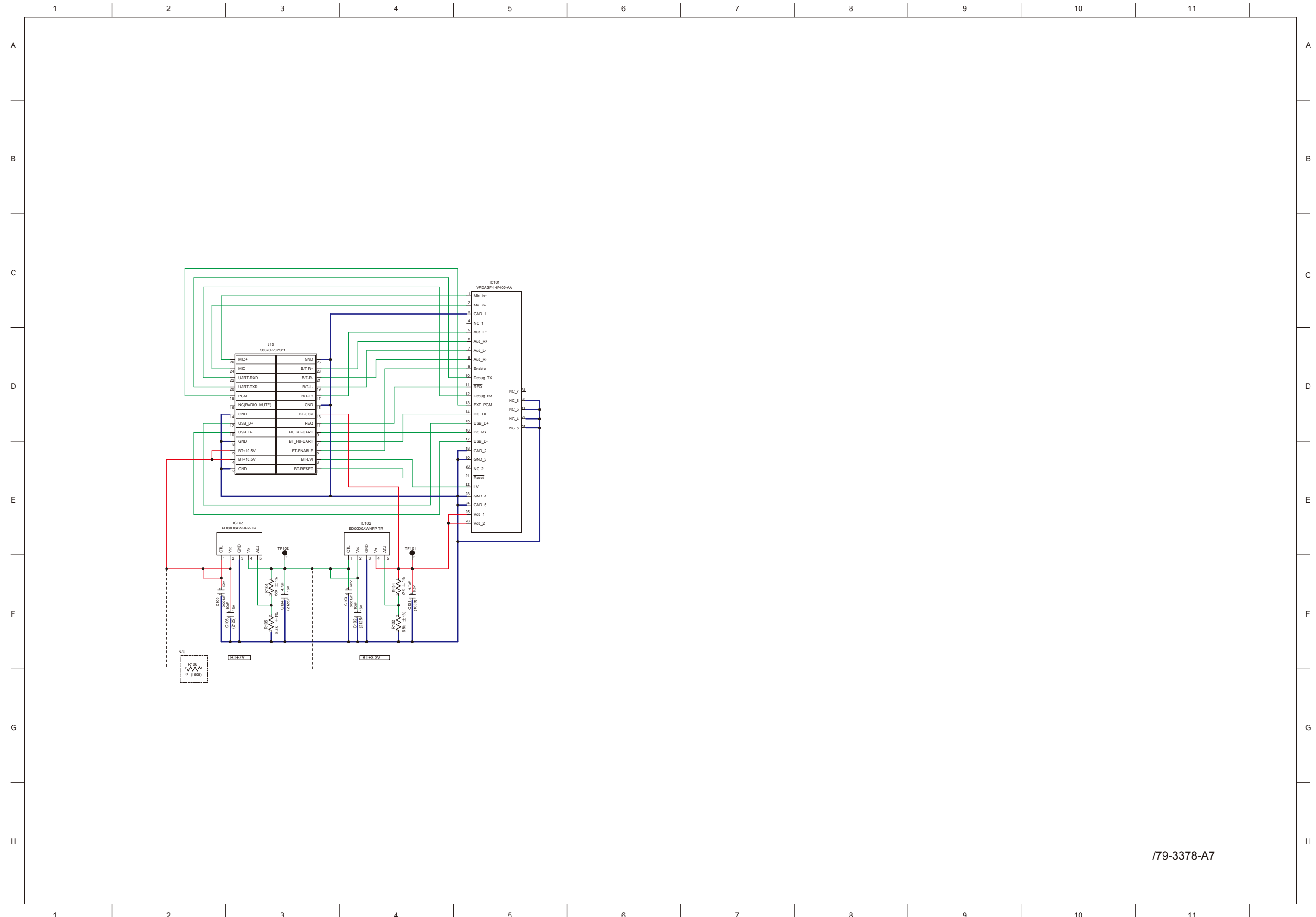


175-3378-E7-6/6



177-3379-A7

CONNECTOR PWB(B3) section 1/1

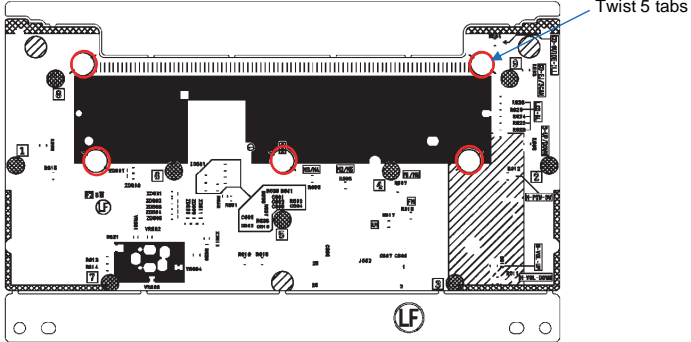


179-3378-A7

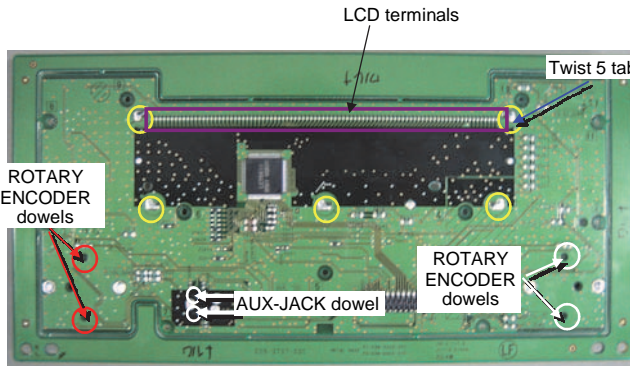
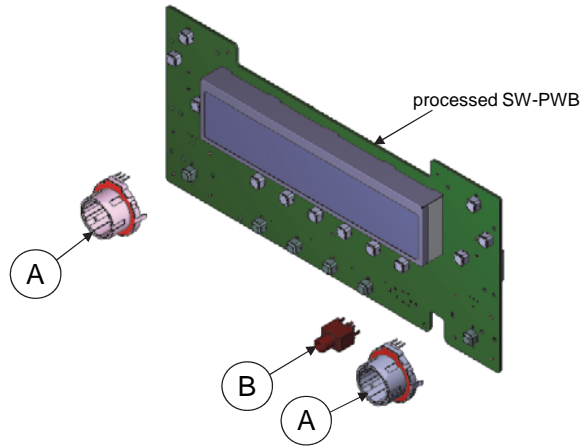
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / SW PWB (1)

Process drawing		Procedure			Control Points
<p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching the parts.</p>		Contents of process			
		No.	Parts Number	Qty	
		A	-----	1	(3378B9-77)
		B	335-9150-00	1	Fit dowels in two places.
		C	335-9151-00	1	Do not forget to peel off protective sheet. There is a mark to identify the protective sheet. (Front: 2 black lines, reverse side: light-blue)
		(C)	-----	(1)	Put the convex portion of LCD-REFLECTOR in the concave portion of LCD-HOLDER. LCD-REFLECTOR direction is specified.
D	379-1462-53	1	Do not forget to peel off protective sheet. There is a mark to identify the protective sheet. (Front: Yellow slash (thin), reverse side: Yellow slash (thick)) Do not touch terminals. Supply the parts in the original package. (Terminal bending prevention.)		
(D)	-----	(1)	There should be no foreign material attached or mixed in.		
E	331-5137-00	1	There should be no loose terminals.		
TOOLS		JIGS			
①	Ionizer	④		①	PWB support
②		⑤		②	
③		⑥		③	
④					
EQUIPMENT					
①	Ionized blower (gun type)	⑥			
Process name					
PWB process (1)					77-3378-B7-01

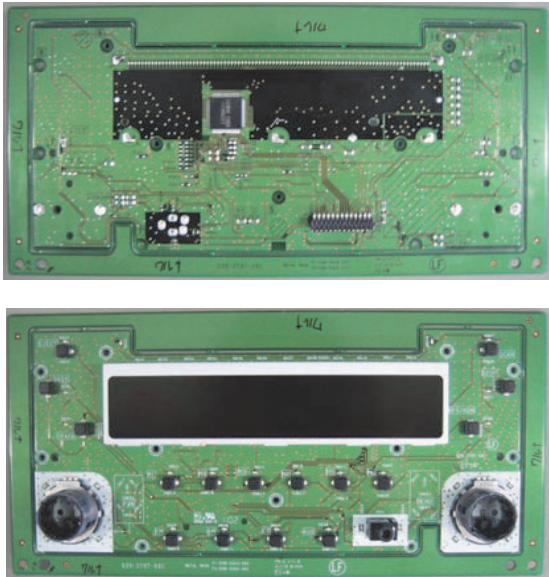
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / SW PWB (2)

Process drawing		Procedure			Control Points																									
 <p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p>		<table border="1"> <thead> <tr> <th>Contents of process</th> <th>No.</th> <th>Parts Number</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> <li>Remove processed SW-A-PWB-ASSY from jig ①. Attach processed SW-A-PWB-ASSY to jig ②.</li> <li>Lock the cover of the tab twisting jig after checking that the LCD holder is not raised.</li> <li>Check that the button is illuminated. Push start button on. ⇒ automatic operation tab twisting starts. → LCD-COVER: 5 tabs</li> <li>After tab twisting, check that the OK-LED button is lit. Open the cover of jig.</li> <li>Remove processed SW-PWB from jig ①.</li> </ul> </td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Contents of process	No.	Parts Number	Qty	<ul style="list-style-type: none"> <li>Remove processed SW-A-PWB-ASSY from jig ①. Attach processed SW-A-PWB-ASSY to jig ②.</li> <li>Lock the cover of the tab twisting jig after checking that the LCD holder is not raised.</li> <li>Check that the button is illuminated. Push start button on. ⇒ automatic operation tab twisting starts. → LCD-COVER: 5 tabs</li> <li>After tab twisting, check that the OK-LED button is lit. Open the cover of jig.</li> <li>Remove processed SW-PWB from jig ①.</li> </ul>				<p>There should be no raised LCD-HOLDER. START button should illuminate.</p>																	
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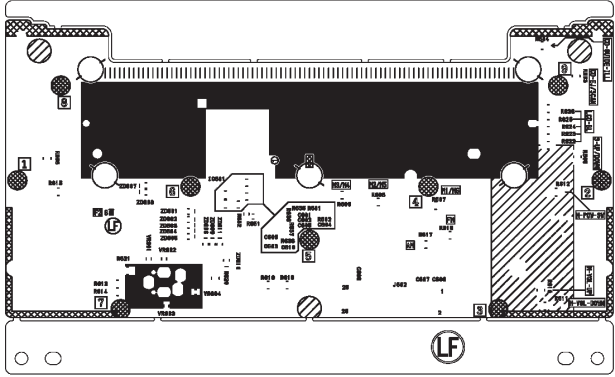
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / SW PWB (3)

Process drawing		Procedure			Control Points																					
 <p>LCD terminals</p> <p>Twist 5 tabs</p> <p>ROTARY ENCODER dowels</p> <p>AUX-JACK dowel</p> <p>ROTARY ENCODER dowels</p>  <p>processed SW-PWB</p> <p>A</p> <p>B</p> <p>A</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Note 1) Use the ionizer.                      Note 2) Handle PWB from the edge to avoid touching parts.</p> </div>		<p>Contents of process</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Parts Number</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>A</td> <td>016-7006-00</td> <td>2</td> </tr> <tr> <td>B</td> <td>075-0395-01</td> <td>1</td> </tr> </tbody> </table>			No.	Parts Number	Qty				A	016-7006-00	2	B	075-0395-01	1	<p>Twist tabs according to the silk print. There should be no loose or bent terminals.</p> <p>LCD-REFLECTOR direction is specified. Fit dowels in 2 places. Supply the parts in the original package. (Terminal bending prevention.)</p> <p>LCD-REFLECTOR direction is specified. Fit dowels in 2 places. Supply the parts in the original package. (Terminal bending prevention.)</p>									
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A	016-7006-00	2																								
B	075-0395-01	1																								
<p>· VISUAL CHECK.                      → Check the tab twisting in 5 places from the solder side.                      (Automatic tab twisting.)                      → Confirm 88 LCD terminals.</p> <p>· Attach SW-PWB to jig ①. (Face the solder side downward.)                      Turn PWB locks (in 6 places) and hold down PWB.</p> <p>· ROTARY ENCODER (A) *Insertion only</p> <p>· AUX-JACK *Insertion only</p>																										
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⑤	⑤																									
⑥	⑥																									
<p>Process name</p> <p>PWB process (3)</p>					77-3378-B7-03																					

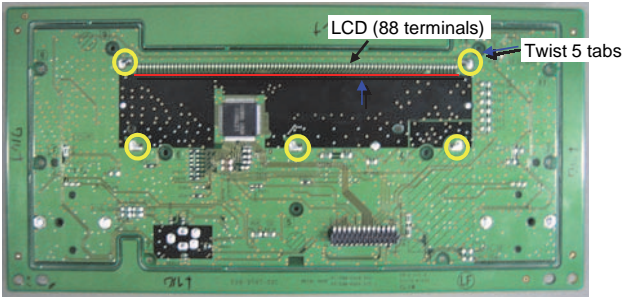
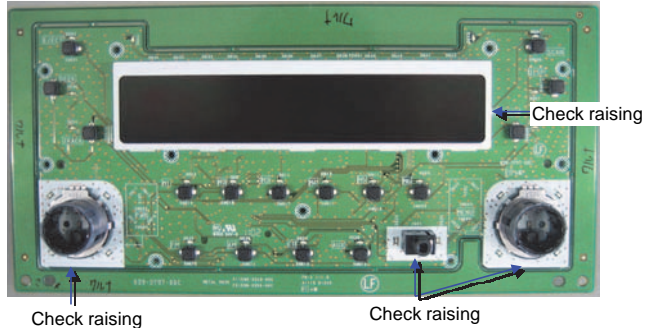
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / SW PWB (4)

Process drawing		Procedure			Control Points																							
		Contents of process	No.	Parts Number	Qty																							
		<p>★While MAIN-PWB is on jig ①.</p> <p>&lt;Dip soldering&gt;</p> <ul style="list-style-type: none"> <li>Place jig ② and jig ③ on component side of processed SW-PWB, and put it in dipping pot.</li> <li>Dip once without auto cutting process and without cleaning.</li> </ul>																										
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	⑤																											
	⑥																											
Process name PWB process (4)					77-3378-B7-04																							

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / SW PWB (5)

Process drawing		Procedure			Control Points																																				
		Contents of process																																							
		No.	Parts Number	Qty																																					
<p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p>		<p>&lt;Check and correction&gt;</p> <ul style="list-style-type: none"> <li>Remove jig ③ and jig ② from processed SW-PWB. Remove processed SW-PWB from jig ①.</li> <li>Place SW-PWB on jig ④ and jig ⑤. (Face the soldering side upward)</li> <li>Check and correction (soldering side) → Check soldering state.</li> </ul>			<p>Use jig ⑥. There should be no soldering bridge, miss-soldering, pin hole or solder projections.</p>																																				
<table border="1"> <thead> <tr> <th colspan="2">Sub material</th> </tr> </thead> <tbody> <tr> <td>①</td> <td>Solder spool (lead free type)</td> </tr> <tr> <td>②</td> <td></td> </tr> <tr> <td>③</td> <td></td> </tr> </tbody> </table>		Sub material		①	Solder spool (lead free type)	②		③		<table border="1"> <thead> <tr> <th colspan="2">TOOLS</th> <th colspan="2">JIGS</th> </tr> </thead> <tbody> <tr> <td>①</td> <td>Soldering iron FM2026 (370 ± 30°C) N2 station FX-791 (2.5L / min) Nitrogen gas generator FX-780 Temperature regulator FX-951</td> <td>④</td> <td>PWB support</td> </tr> <tr> <td>②</td> <td>Ionizer</td> <td>⑤</td> <td>Inclination rotation base</td> </tr> <tr> <td></td> <td></td> <td>⑥</td> <td>For correction masking cover (SW big)</td> </tr> <tr> <td></td> <td></td> <td>①</td> <td>Mask pallet (SW big)</td> </tr> <tr> <td></td> <td></td> <td>②</td> <td>Dip parts holding jig (SW big)</td> </tr> <tr> <td></td> <td></td> <td>③</td> <td>Mask pallet cover (220)</td> </tr> </tbody> </table>			TOOLS		JIGS		①	Soldering iron FM2026 (370 ± 30°C) N2 station FX-791 (2.5L / min) Nitrogen gas generator FX-780 Temperature regulator FX-951	④	PWB support	②	Ionizer	⑤	Inclination rotation base			⑥	For correction masking cover (SW big)			①	Mask pallet (SW big)			②	Dip parts holding jig (SW big)			③	Mask pallet cover (220)	
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Process name PWB process (5)					77-3378-B7-05																																				

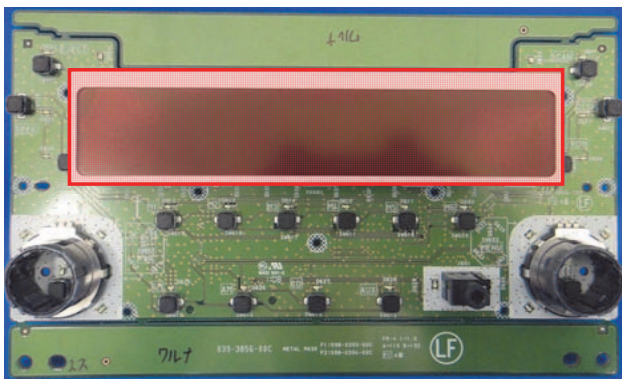
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / SW PWB (6)

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Process name PWB process (6)					77-3378-B7-06																												

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / SW PWB (7)

## Repair prohibited parts

- LCD  
⇒Lead type part and multi terminal through hole.  
Concerning these parts, as the quality after repair cannot be ensured, repair is prohibited.

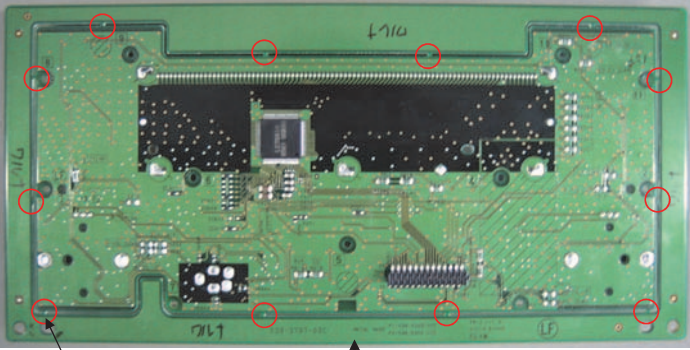


Working name

Repair guide line (SW)

77-3378-B7-80

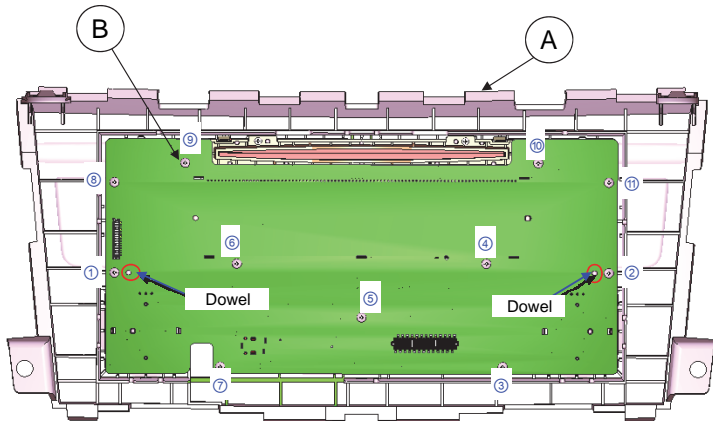
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / PANEL (1)

Process drawing		Procedure			Control Points
 <p>Cut 12 portions</p> <p style="text-align: center;">A</p> <div style="border: 1px solid red; padding: 5px; margin-top: 20px;"> <p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p> </div>		Contents of process			
		<ul style="list-style-type: none"> <li>· Cut SW-A-PWB (A).                             <ol style="list-style-type: none"> <li>1) Set SW-PWB on jig ①.</li> <li>2) Push start button on equipment ① → ON → PWB cutting starts: AUTOMATIC</li> <li>3) After completing the cut, remove SW-PWB from jig ①.</li> </ol> </li> <li>· Apply air-blow to SW-PWB.</li> </ul>	No. A	Parts Number -----	Qty 1
Sub material		TOOLS		JIGS	
①		①	Ionizer	① PWB cutting support (SW big) Work range extension jig of Y-axis for RK Raising and extension table jig of Y-axis	
②		②	Air-gun		
③		③			
		EQUIPMENT			
④		①	Auto PWB cutting machine		
Process name					
ESCUTCHEON process (1)					45-3378-C0-01

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / PANEL (2)

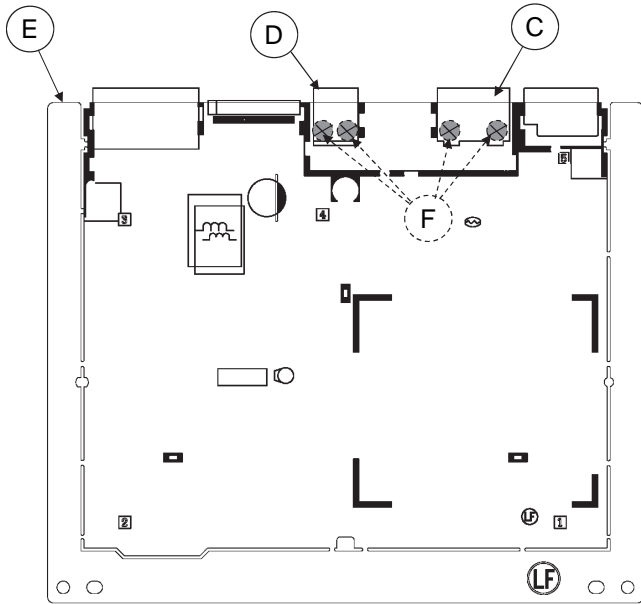
Process drawing		Procedure			Control Points
		Contents of process			
		No.	Parts Number	Qty	
<p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p>		<ul style="list-style-type: none"> <li>Peel off the protection sheet of SW-PWB (A) (LCD portion). Carry out the visual check of the inside of LCD, and then apply air-blow to both sides of SW-PWB. Set to jig ①. (Face soldering side downward.)</li> </ul>			(1) Discard protective sheet. There should be no scratches, stains or dust. Apply air-blow to both sides of SW-PWB. Do not touch the parts of SW-PWB and LCD.
		<ul style="list-style-type: none"> <li>Attach ILLUMI RING [L] (B), KNOB-ASSY (C) and BUTTON-ASSY [L] (D) on ROTARY ENCODER [LEFT SIDE] of SW-PWB.</li> </ul>			(1) Attach according to silk print. "C": Fit tabs in 3 places. "D": Fit tabs in 4 places, and fit a dowel in 1place.
		<ul style="list-style-type: none"> <li>Attach ILLUMI RING [R] (E), KNOB-ASSY (F) and BUTTON-ASSY [R] (G) on ROTARY ENCODER [RIGHT SIDE] of SW-PWB.</li> </ul>			(1) Attach according to silk print. "F": Fit tabs in 3 places. "G": Fit tabs in 4 places, and fit a dowel in 1place.
Sub material		TOOLS		JIGS	
①		①	Ionizer	①	Illumi ring attachment support (SW big)
②		②	Air-gun	②	
③		③		③	
④		④			
⑤		⑤			
⑥		⑥			
Process name				45-3378-C0-02	
ESCUTCHEON process (2)					

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / PANEL (3)

Process drawing		Procedure			Control Points									
		Contents of process												
		No.	Parts Number	Qty										
<p>Note 1) Use the ionizer. Note 2) Handle ES from the edge.</p> <table border="1"> <caption>&lt;Difference table&gt;</caption> <thead> <tr> <th>Assy name</th> <th>A: ES-ASSY</th> </tr> </thead> <tbody> <tr> <td>45-3378-B0</td> <td>940-8624-01</td> </tr> <tr> <td>45-3378-C0</td> <td>940-8624-03</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>		Assy name	A: ES-ASSY	45-3378-B0	940-8624-01	45-3378-C0	940-8624-03					<ul style="list-style-type: none"> <li>Take ES-ASSY (A) from poly-bag. After visual check appearance, set ES-ASSY (A) on jig ①. (Face front side of ESCUTCHEON downward) (See difference table.)</li> <li>Remove processed SW-PWB from jig ①. Attach processed SW-PWB (Face component side downward) according to the AUX-JACK and ILLUMI RING of ES-ASSY.</li> <li>Attach jig ② on soldering side of SW-PWB and fix with SPECIAL SCREW (B).</li> <li>Remove jig ② from SW-PWB. Remove processed ES-ASSY from jig ①.</li> </ul>	<ul style="list-style-type: none"> <li>A See different table. 1</li> <li>B 716-0778-52 11</li> </ul>	<p>There should be no scratches, stains or paint failure.</p> <p>Fit dowels in 2 places.</p> <p>Tighten in the order of ①→⑥. Jig ② tightening sequence is specified.</p>
		Assy name	A: ES-ASSY											
45-3378-B0	940-8624-01													
45-3378-C0	940-8624-03													
Sub material	TOOLS	JIGS												
①	① Ionizer	① ES support (ES big)												
②	② Electric screw driver ( 0.33 ± 0.02 N · m )	② For tightening template (ES big)												
③														
④	④													
⑤	⑤													
⑥	⑥													
Process name ESCUTCHEON process (3)			45-3378-C0-03											



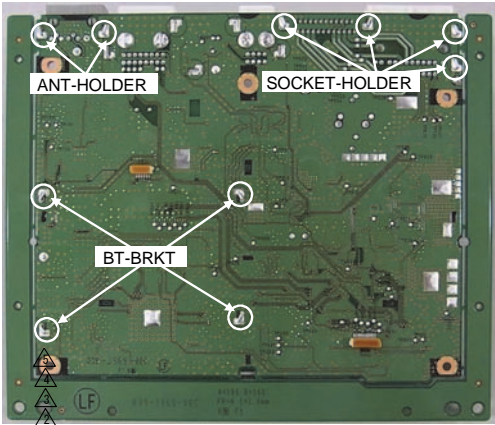
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / MAIN PWB (1)

Process drawing		Procedure			Control Points										
 <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p> </div>		Contents of process													
		No.	Parts Number	Qty											
		<p>&lt;Pre-process&gt;</p> <ul style="list-style-type: none"> <li>Cut leads                             <ol style="list-style-type: none"> <li>1) THERMISTOR</li> <li>2) COIL</li> </ol> </li> </ul> <p>&lt;PRE-ATTACHMENT&gt;</p> <ul style="list-style-type: none"> <li>Cut leads                             <ol style="list-style-type: none"> <li>1) OUTLET SOCKET (TH16)</li> <li>1) OUTLET SOCKET (TH08)</li> </ol> </li> </ul>													
			A	002-0229-00	1	Use jigs ① and ②.									
			B	010-8049-00	1	Use jigs ① and ⑤.									
			C	074-1302-16	1	Use jigs ① and ③. Supply the parts in the original package (terminal bending prevention).									
			D	074-1302-08	1										
			E	See difference table	1										
			F	778-3006-00	4	There should be no bent or loose terminals.									
		<ul style="list-style-type: none"> <li>Attach processed OUTLET SOCKETS (x2) on jig ④, and then attach MAIN-A-PWB-ASSY (E) on jig ④.</li> <li>Check insertion condition of OUTLET SOCKET terminals (x2), and then secure OUTLET SOCKETS with TAP SCREWS (F).</li> <li>Remove processed MAIN-PWB from jig ④.</li> </ul>													
		<Difference table>													
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ASSY NAME</th> <th>E: MAIN-A-PWB</th> </tr> </thead> <tbody> <tr> <td>75-3378-C7</td> <td>75-3378-C9</td> </tr> <tr> <td>75-3378-E7</td> <td>75-3378-E9</td> </tr> <tr> <td>75-3378-F7</td> <td>75-3378-F9</td> </tr> </tbody> </table>			ASSY NAME	E: MAIN-A-PWB	75-3378-C7	75-3378-C9	75-3378-E7	75-3378-E9	75-3378-F7	75-3378-F9			
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75-3378-C7	75-3378-C9														
75-3378-E7	75-3378-E9														
75-3378-F7	75-3378-F9														
Sub material		Jigs													
①		④	TH-connector tightening jig		①	Leads cutting jig									
②		⑤	Template		②	Leads cutting template									
Tools		⑥			③	Leads cutting template									
①	Electric screw driver (0.55 ± 0.05 N·m)														
②	Ionizer														
③															
Process name					75-3378-F7-01										
PWB process (1)															

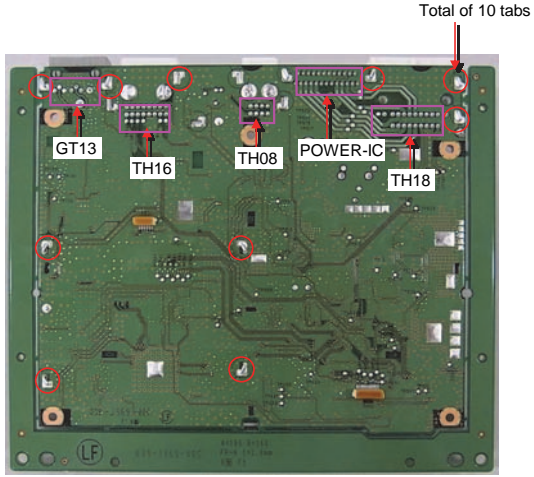
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / MAIN PWB (2)

Process drawing		Procedure			Control Points
<p>Figure is P-3379. This is for reference purposes.</p> <p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p>		Contents of process			
		No.	Parts Number	Qty	
		<p>&lt;PRE-ATTACHMENT&gt;</p> <ul style="list-style-type: none"> <li>Place MAIN-PWB on jig ①.</li> </ul>			
		<ul style="list-style-type: none"> <li>Cut leads</li> </ul>			
		<p>1) OUTLET SOCKET [TH18] (A)</p>			<p>A 074-4009-20 1 Use jigs ② and ③. Supply the parts in the original package (terminal bending prevention). Cut leads while holding parts.</p>
		<ul style="list-style-type: none"> <li>Insert the following parts.</li> </ul>			
		<p>1) Preprocessed OUTLET SOCKET [TH18] (A)</p>			<p>(A) ----- (1)</p>
		<p>2) POWER-IC [TB2946HQ] (B)</p>			<p>B 051-2067-00 1 Supply the parts in the original package (terminal bending prevention).</p>
		<p>3) SOCKET-HOLDER (C)</p>			<p>C 331-5153-00 1 Attach the socket-holder after inserting the outlet socket (TH18) and POWER-IC. Insert tabs in rectangular holes of MAIN-PWB in 4 places. Insert dowel in round hole of MAIN-PWB in 1 place. Fit dowels of OUTLET SOCKET (TH18) in 2 places.</p>
		<p>4) ANT [GT13] (D)</p>			<p>D 092-2210-01 1 Fit dowels in 2 places.</p>
		<p>5) ANT-HOLDER (E)</p>			<p>E 331-4676-00 1 Insert tabs in rectangular holes of MAIN-PWB in 2 places. Insert dowel in round hole of MAIN-PWB in 1 place.</p>
		<p>6) BT-BRKT (F)</p>			<p>F 331-5269-00 1 Insert tabs in rectangular holes of MAIN-PWB in 4 places. Insert dowel in round hole of MAIN-PWB in 1 place.</p>
Sub material		Jigs			
①		①	Tab twisting driver (left 30 degrees)	①	Tab twisting jig (MAIN-PWB)
②					
③		②	Leads cutting jig		Tab twisting jig
Tools					
①	Ionizer	③	Leads cutting template		Tab twisting driver (right 30 degrees)
②					
Process name					
PWB process (2)					75-3378-F7-02

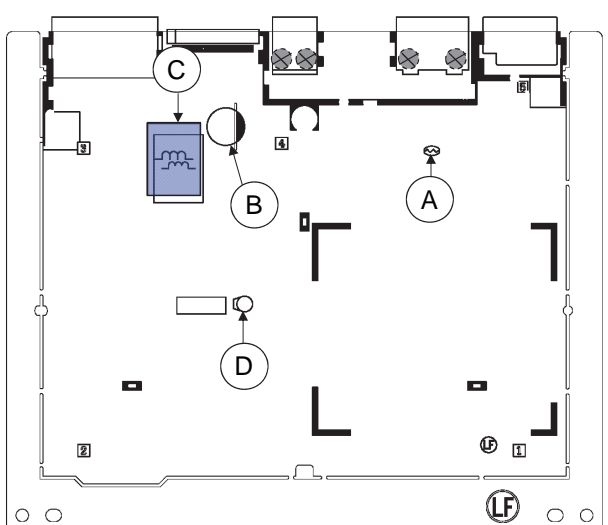
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / MAIN PWB (3)

Process drawing		Procedure			Control Points
 <p>ANT-HOLDER</p> <p>SOCKET-HOLDER</p> <p>BT-BRKT</p>		<p>Contents of process</p> <p>No. Parts Number Qty</p>			
		<p>&lt;PRE-ATTACHMENT&gt;</p> <ul style="list-style-type: none"> <li>Lock cover of auto tab-twisting jig.</li> <li>Check that the START button illuminates and then turn the START button on. → automatic operation tab torsion.                             <ul style="list-style-type: none"> <li>→ SOCKET-HOLDER ※Twist 4 tabs</li> <li>→ Processed ANT-HOLDER ※Twist 2 tabs</li> <li>→ BT-BRKT ※Twist 4 tabs</li> </ul> </li> <li>After tab twisting is complete, check that the OK-LED button illuminates. Open the cover of jig.</li> <li>Remove processed MAIN-PWB from jig ①.</li> </ul>			
<p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p>					
Sub material		Jigs			
①		①	Tab twisting driver (left 30 degrees)	①	Tab twisting jig (MAIN-PWB)
②					Tab twisting jig
③		②			Tab twisting driver (right 30 degrees)
Tools					
①	Ionizer				
②					
Process name					
PWB process (3)					75-3378-F7-03

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / MAIN PWB (4)

Process drawing		Procedure			Control Points																																							
 <p style="text-align: right;">Total of 10 tabs</p> <p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p>		<table border="1"> <thead> <tr> <th colspan="3">Contents of process</th> <th>No.</th> <th>Parts Number</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td colspan="3">                     &lt;PRE-ATTACHMENT&gt;                      · VISUAL CHECK.                       → From the solder side, check the tabs in 10 places (automatic twisting tab).                       · When fixing POWER-IC with jig ①, position IC at upper end of tab of IC-HOLDER.                       · Check for loose leads.                 </td> <td></td> <td></td> <td></td> </tr> <tr> <td>1) OUTLET SOCKET (TH18)</td> <td>20 terminals</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2) OUTLET SOCKET (TH16)</td> <td>16 terminals</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3) OUTLET SOCKET (TH08)</td> <td>8 terminals</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4) ANT (GT13)</td> <td>3 terminals</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5) POWER-IC</td> <td>25 terminals</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Contents of process			No.	Parts Number	Qty	<PRE-ATTACHMENT> · VISUAL CHECK.  → From the solder side, check the tabs in 10 places (automatic twisting tab).  · When fixing POWER-IC with jig ①, position IC at upper end of tab of IC-HOLDER.  · Check for loose leads.						1) OUTLET SOCKET (TH18)	20 terminals				2) OUTLET SOCKET (TH16)	16 terminals				3) OUTLET SOCKET (TH08)	8 terminals				4) ANT (GT13)	3 terminals				5) POWER-IC	25 terminals						Twist tabs according to the silk print.  Do not cover 2 screw holes. Fix IC securely.  There should be no loose or bent leads.
		Contents of process			No.	Parts Number	Qty																																					
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Process name PWB process (4)					75-3378-F7-04																																							

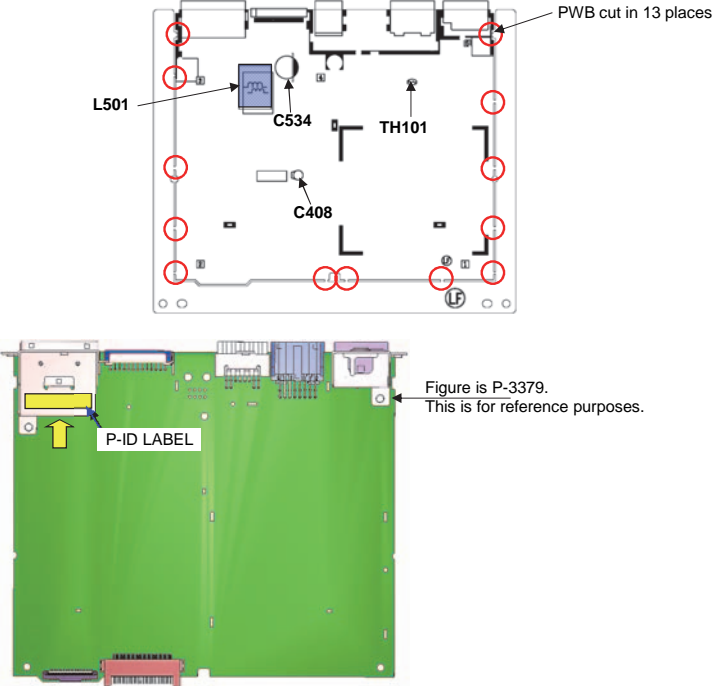
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / MAIN PWB (5)

Process drawing		Procedure			Control Points																																										
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⑤		FACILITIES																																													
⑥		①	Auto soldering machine																																												
Process name																																															
PWB process (5)				75-3378-F7-05																																											

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / MAIN PWB (6)

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		<p>&lt;ADDITIONAL PROCESS&gt;</p> <ul style="list-style-type: none"> <li>Remove jig ③ and jig ② from processed MAIN-PWB. Take processed MAIN-PWB from jig ①.</li> <li>Place MAIN-PWB on jig ④ and jig ⑤. (Face the soldering side upward)</li> <li>Check and correction (soldering side) → Check soldering state.</li> <li>Check leads cutting size → Slide jig ⑦ according to the solder side of MAIN-PWB and check that the leads and soldering protruding part of QFP back side are not touched.</li> <li>VISUAL CHECK.                             <ol style="list-style-type: none"> <li>Check for loose leads. → POWER-IC: 25 terminals</li> <li>Tab untwisted. → SOCKET HOLDER: 4 portions → ANT-HOLDER: 2 portions → BT-BRKT: 4 portions</li> <li>Check for missing screws. → OUTLET fixing screw: 4 screws</li> </ol> </li> <li>After visual check, remove MAIN-PWB from jig ④ and jig ⑤.</li> </ul>		<p>Use jig ⑥. There should be no soldering bridge, miss-solder, pin-hole and icicle.</p> <p>Maximum lead length 2.6 mm Not ok UNITS shall be rejected and sent to repair process. (Do not cut leads during this process.)</p> <p>Use jig ⑧. There should be no loose leads.</p> <p>There should be no untwisted tabs.</p> <p>There should be no missing screws.</p>																																															
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# ASSEMBLY INSTRUCTIONS / PN-3378I-E / MAIN PWB (7)

Process drawing	Procedure	Control Points																													
<div style="text-align: center;">  <p>PWB cut in 13 places</p> <p>Figure is P-3379. This is for reference purposes.</p> <p>P-ID LABEL</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p> </div> <p>&lt;Difference table&gt;</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ASSY NAME</th> <th>(MODEL NAME)</th> <th>MODEL NO.</th> <th>MODEL CODE</th> </tr> </thead> <tbody> <tr> <td>75-3378-C7</td> <td>(PN-3378I-C)</td> <td>PN3378IC</td> <td>A1</td> </tr> <tr> <td>75-3378-E7</td> <td>(PN-3378I-C)</td> <td>PN3378IC</td> <td>A1</td> </tr> <tr> <td>75-3378-F7</td> <td>(PN-3378I-D)</td> <td>PN3378ID</td> <td>B5</td> </tr> </tbody> </table> </div>	ASSY NAME	(MODEL NAME)	MODEL NO.	MODEL CODE	75-3378-C7	(PN-3378I-C)	PN3378IC	A1	75-3378-E7	(PN-3378I-C)	PN3378IC	A1	75-3378-F7	(PN-3378I-D)	PN3378ID	B5	<div style="text-align: center;"> <p>Contents of process</p> <p>&lt;ADDITIONAL PROCESS&gt;</p> <ul style="list-style-type: none"> <li>· Attach MAIN-PWB on jigs ① and ②. (Face the parts side upward.)</li> <li>· Check and correction (parts side)                             <ol style="list-style-type: none"> <li>1) Check polarity.                                     <ul style="list-style-type: none"> <li>→ SPECIAL-C (C534)</li> <li>→ TRIMMER (C408)</li> </ul> </li> <li>2) Check missing parts                                     <ul style="list-style-type: none"> <li>→ THERMISTOR (TH101)</li> </ul> </li> <li>3) Check for raised parts.                                     <ul style="list-style-type: none"> <li>→ COIL (L501)</li> </ul> </li> </ol> </li> <li>· Peel off printed P-ID LABEL from sheet. Apply printed P-ID LABEL on the SOCKET-HOLDER.</li> <li>· Remove MAIN-PWB from jig ① and jig ②.</li> <li>· Cut MAIN-PWB.                             <ol style="list-style-type: none"> <li>1) Set MAIN-PWB onto jig ③.</li> <li>2) Push the start button of equipment → ON → Start PWB cutting: AUTOMATIC</li> <li>3) After completing the cut, remove MAIN-PWB from jig ③.</li> </ol> </li> <li>· Apply air-blow to MAIN-PWB.</li> </ul> </div>	<ul style="list-style-type: none"> <li>Use jigs ① and ②.</li> <li>Pay attention to the polarity.</li> <li>There should be no missing parts.</li> <li>There should be no floating.</li> <li>MODEL NO. → See difference table. MODEL CODE → See difference table. Apply it so that it can be read from the direction of the arrow mark.</li> <li>Only parts that are OK according to the IBT inspection should be cut.</li> <li>Cut 13 portions.</li> <li>Apply air-blow to both sides of MAIN-PWB.</li> </ul>													
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# ASSEMBLY INSTRUCTIONS / PN-3378I-E / MAIN PWB (8)

## Repair-prohibited parts

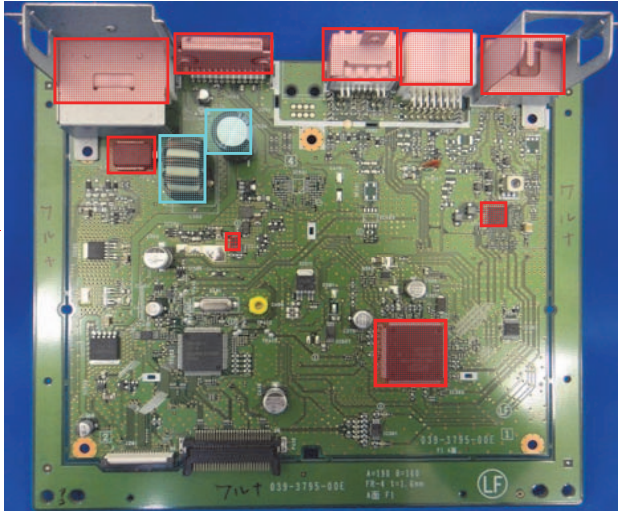
- Outlet socket, ANT
- Power-IC
- ⇒ Lead type part and multi terminal through hole
- QFP/SOP
- ⇒ There is a thermal pad on the lower surface of the part.

Concerning these parts, as the quality after repair cannot be ensured, repair is prohibited.

## Conditional repairable parts

- Electrolytic capacitor
- Coil
- ⇒ After repair, the through hole soldering condition cannot be checked.

Concerning these parts, repair will be approved by carrying out verification by X-ray of the through-hole soldering condition after repair.  
For soldering condition level judgment criteria, refer to the following.

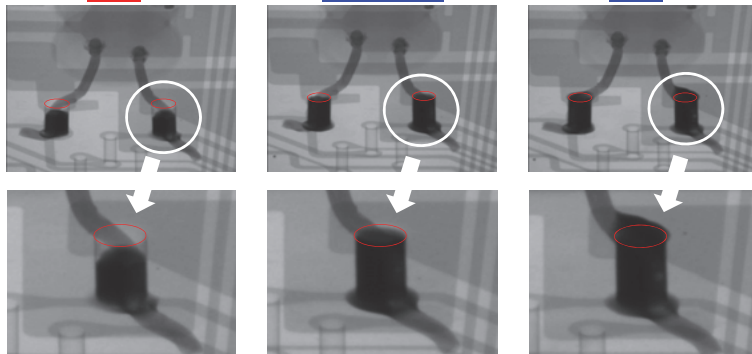


## Through hole soldering condition level judgment criteria by X-ray

Not OK

OK (minimum)

OK



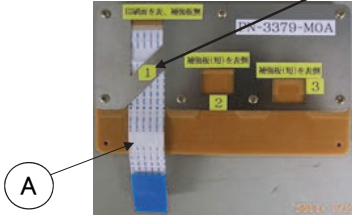
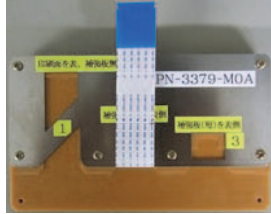
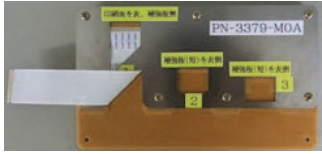
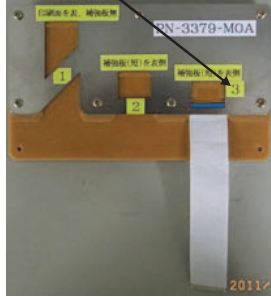
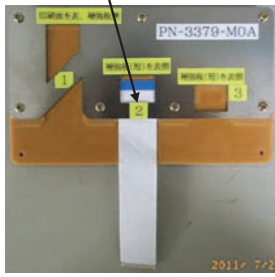
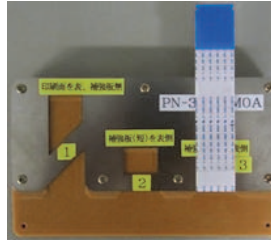
Working name

Repair guidelines (main)

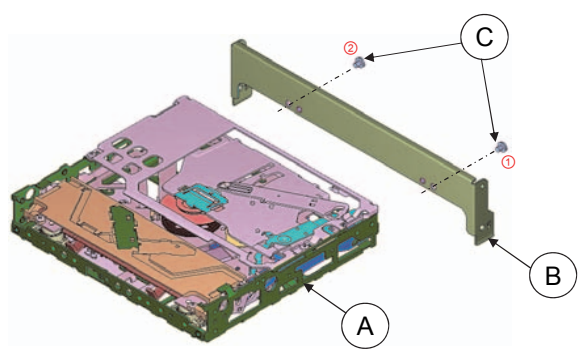
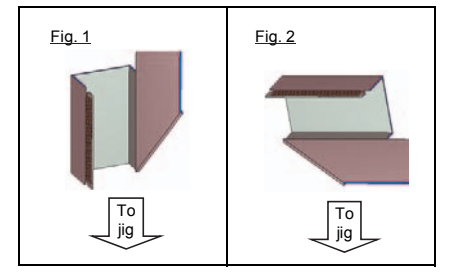
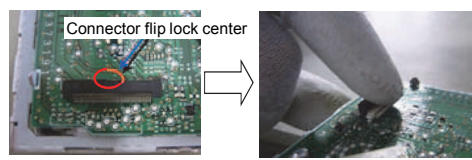
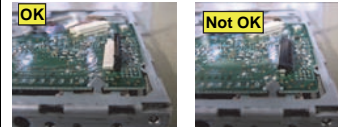
75-3378-F7-80

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (1)

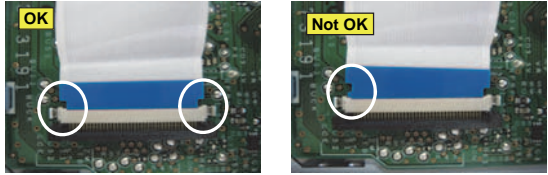
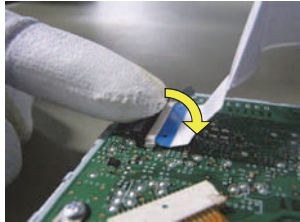
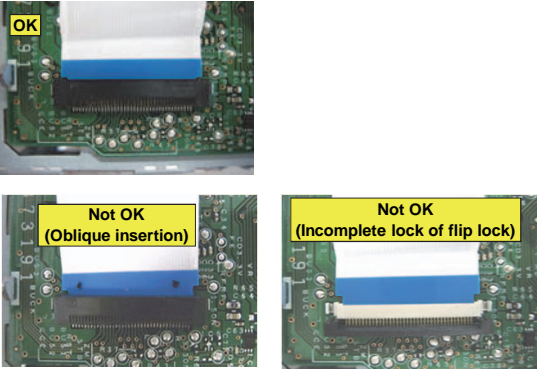
## Process drawing & Procedure

No.	Parts Number	Qty		
A	816-3064-05	1	Use jig ①.	
<p>FLAT WIRE folding</p> <p>1) With the reinforcement plate removed, securely insert the flat wire (A) all the way into ① with the printed surface facing up.</p> 			<p>4) Remove after folding along jig.</p> 	
<p>2) Remove after folding along jig.</p> 			<p>5) Insert the reinforcement plate (short) of flat wire in ② of jig. Insert flat wire all the way into the jig securely.</p> 	
<p>3) Insert the reinforcement plate (short) of flat wire in ② of jig.</p> 			<p>6) Remove after folding along jig.</p> 	
<p>Insert flat wire all the way into the jig securely.</p>			<p>7) Bend FLAT WIRE in the direction specified by hand (3 points).</p>	
Sub material		TOOLS		JIGS
①		①		① FFC folding jig
②		②		②
③		③		③
④		④		
⑤		⑤		
⑥		⑥		
Process name				
FLAT WIRE process				PN-3378I-E-01

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (2)

Process drawing		Procedure			Control Points
 <p>Note 1) Use the ionizer. Note 2) Handle CD-MECH from the edge to avoid touching parts.</p>		<p>Contents of process</p>			
		No.	Parts Number	Qty	
		<ul style="list-style-type: none"> <li>Take CD-MECH (A) from poly-bag.</li> <li>Place CD-MECH on jig ②. (The CD loading slot is facing downward, and MECH-PWB is facing toward you.) Visually check springs of rear and FFC of MECH-PWB.</li> <li>Attach MECH-BRKT (B) on CD-MECH (A) and fix with MACHINE SCREW (C).</li> <li>Unlock connector flip lock of MECH-PWB side.</li> </ul>			
		(A)	-----	(1)	
		B	331-5138-00	1	Fit dowels in 2 places.
		C	714-2603-89	2	Tighten in the order of ①→②.
					<p>Open flip lock completely (90 degrees). After releasing connector clip, do not add any load (stress). Do not touch the parts.</p>
		<ul style="list-style-type: none"> <li>Check the bending state of flat wire.                             <ol style="list-style-type: none"> <li>Place as shown in Fig. 1.</li> <li>Remove flat wire from jig ①.</li> <li>Place on jig ① as shown in Fig. 2.</li> <li>Take flat wire out from jig ①.</li> </ol> </li> </ul>			 <p>Use jig ①. Flat cable should fit in concave shape of the jig (riding is not OK).</p> <p>Flat cable should fit in concave shape of the jig (riding is not OK).</p>
Sub material		TOOLS		JIGS	
①		①	Ionizer	①	FFC folding check jig
②		②	Electric screwdriver (0.4 ± 0.04 N·m)	②	GS-1 MECH processing jig
③		③		③	
④		④			
⑤		⑤			
⑥		⑥			
Process name				PN-3378I-E-02	
CD-MECH process(1)					

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (3)

Process drawing		Procedure			Control Points	
		Contents of process	No.	Parts Number	Qty	
		<ul style="list-style-type: none"> <li>Moisten a dust-free cloth in alcohol and clean the terminal part of processed flat wire.</li> <li>Insert processed FLAT WIRE [CD-MECH side] in the connector of CD-MECH at the same time with both hands.</li> </ul>				<p>There should be no foreign matter in terminal part.</p> <p>Insert it all the way in securely. Check that FFC cutout is aligned with connector edges. Oblique insertion is not OK.</p>
		<ul style="list-style-type: none"> <li>Push center of connector flip lock with finger, and then lock.</li> </ul>				<p>Push to lock until a click sound is heard. Fit connector flip lock with FFC concave portion.</p>
		<ul style="list-style-type: none"> <li>Check inserted condition, and then remove processed CD-MECH.</li> </ul> <p>Note 1) Use the ionizer. Note 2) Handle CD-MECH from the edge to avoid touching parts.</p>				<p>There should be no oblique insertion, incomplete insertion, or incomplete connector lock.</p>
Sub material		TOOLS		JIGS		
①	Alcohol	①	Ionizer	①		
②		②	FFC cleaner	②		
③		③	Cloth	③		
④		④				
⑤		⑤				
⑥		⑥				
Process name						PN-3378I-E-03
CD-MECH process(2)						

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (4)

Process drawing		Procedure			Control Points	
		Contents of process	No.	Parts Number	Qty	
<p>① Insert convex portion of ES-PLATE in notch.</p>	<p>② Oval hole</p>	<ul style="list-style-type: none"> <li>Attach ES attachment side of ES-PLATE (A) to jig ①. (Faces ES attachment side downward.)</li> </ul>	A	309-1948-00	1	Fit tabs in 2 places and a dowel in 1 place.  There should be no raised parts.
<p>③ Installed ANT guide.</p>	<p>④ Tab</p>	<ul style="list-style-type: none"> <li>ANT-GUIDE attachment.                             <ol style="list-style-type: none"> <li>Put ANT-GUIDE (B) through the rectangular hole of ES-PLATE. Insert convex portion of ANT-GUIDE (B) in notch. →See left view ①.</li> <li>Insert dowel of ANT-GUIDE (B) in oval hole of ES-PLATE. →See left view ②.</li> <li>Snap-fit ANT-GUIDE clip. →See left view ③.</li> </ol> </li> </ul>	B	335-9220-00	1	
<p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p>		<ul style="list-style-type: none"> <li>Secure ANT-GUIDE with SPECIAL SCREW (C).</li> <li>Take processed ES-PLATE from jig ①.</li> </ul>	C	716-3718-00	1	
Sub material	TOOLS	JIGS				
①	① Ionizer	① BT-ANT/BT GUIDE attachment jig				
②	② Electric screwdriver (0.2 ± 0.04 N·m) *bit #1	②				
③	③	③				
④	④	④				
⑤	⑤	⑤				
⑥	⑥	⑥				
Process name			PN-3378I-E-04			
ES-PLATE process(1)						

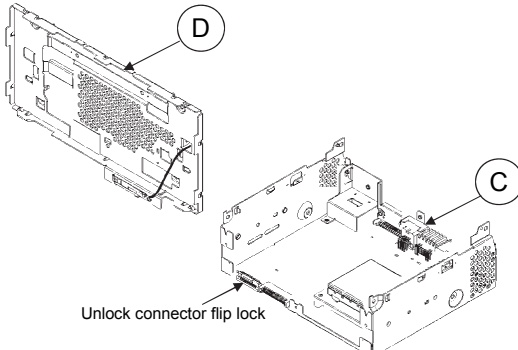


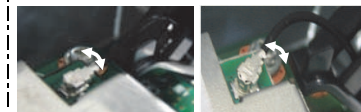
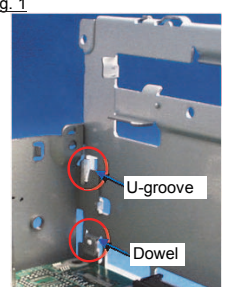
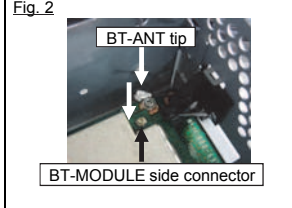
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (5)

Process drawing		Procedure			Control Points																								
<p>① Antenna line    Antenna part</p> <p>Fit tabs in 3 places.</p> <p>③    ④    ⑤</p> <p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p>		<p>Contents of process</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Parts Number</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>-----</td> <td>(1)</td> </tr> <tr> <td>B</td> <td>060-8122-10</td> <td>1</td> </tr> <tr> <td>C</td> <td>716-1468-01</td> <td>2</td> </tr> </tbody> </table>			No.	Parts Number	Qty	A	-----	(1)	B	060-8122-10	1	C	716-1468-01	2	<p>· Attach ES attachment side of processed ES-PLATE (A) on jig ① again. (ES attachment side is top.)</p> <p>· Attach BT-ANT (B) to processed ES-PLATE (B). →See left view ①.</p> <p>· Close the template of jig ①. Secure BT-ANT with SPECIAL SCREW (C). →See left view ②.</p> <p>· Open the template of jig ①. Remove processed ES-PLATE from jig ①.</p> <p>· BT-ANT antenna line processing.</p> <p>1) Run BT-ANT through the ANT groove (R portion). →See left view ③.</p> <p>2) Push it into the clip inside jig ② while running BT-ANT through the groove of the ANT-GUIDE. →See left view ④.</p> <p>3) Run the BT-ANT through the tab of ANT-GUIDE. →See left view ⑤.</p>	<p>Do not touch ANT portion of BT-ANT. Fit tabs in 3 places. Do not bend antenna line 90 degrees or more.</p> <p>Tighten in the order of ①→②.</p>											
No.	Parts Number	Qty																											
A	-----	(1)																											
B	060-8122-10	1																											
C	716-1468-01	2																											
<p>Sub material</p> <table border="1"> <thead> <tr> <th colspan="2">TOOLS</th> <th colspan="2">JIGS</th> </tr> </thead> <tbody> <tr> <td>①</td> <td>Ionizer</td> <td>①</td> <td>BT-ANT/BT GUIDE attachment jig</td> </tr> <tr> <td>②</td> <td>Electric screwdriver (0.2 ± 0.04 N·m) *bit #0</td> <td>②</td> <td>BT-ANT line processing jig</td> </tr> <tr> <td>③</td> <td></td> <td>③</td> <td></td> </tr> <tr> <td>④</td> <td></td> <td></td> <td></td> </tr> <tr> <td>⑤</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		TOOLS		JIGS		①	Ionizer	①	BT-ANT/BT GUIDE attachment jig	②	Electric screwdriver (0.2 ± 0.04 N·m) *bit #0	②	BT-ANT line processing jig	③		③		④				⑤				<p>Process name</p> <p><b>ES-PLATE process(2)</b></p>			<p><b>PN-3378I-E-05</b></p>
TOOLS		JIGS																											
①	Ionizer	①	BT-ANT/BT GUIDE attachment jig																										
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③		③																											
④																													
⑤																													

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (6)

Process drawing	Procedure			Control Points																																					
<p>The figure is P-3379 (reference).</p> <p><b>[Soldering side of MAIN-PWB.]</b></p> <p>P-ID label</p> <p>B</p> <p>C</p> <p>D</p> <p>A</p> <p>Fig. 1</p> <p>Fig. 2</p> <p>Fig. 3</p> <p>Push</p> <p>Push</p> <p>CONN-PWB connector</p> <p>MAIN-PWB connector</p> <p>Push ★ portion of CONN-PWB. Do not push BT-MODULE. *See Fig. 2 &amp; Fig. 3.</p> <p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p>	<p><b>Contents of process</b></p> <p>*Take out LOWER CASE (A), and set LOWER CASE on jig ①.</p> <p>*Check P-ID LABEL of MAIN-PWB. → MODEL NO. + MODEL CODE (See difference table.)</p> <p>*Attach RUBBER PART (C) on soldering side of MAIN-PWB (B) (According to silk print).</p> <p>*Attach MAIN-PWB on LOWER CASE.</p> <p>*Attach CONN-PWB-ASSY (D) to BT-BRKT of MAIN-PWB.</p> <p>*Push BT-MODULE connector and MAIN-PWB connector, to connect.</p> <p>*Attach jig ② on component side of MAIN-PWB and fix with SPECIAL SCREW (E).</p> <p>*Take jig ② from MAIN-UNIT.</p> <p>*Take jig ① from MAIN-UNIT.</p>	<table border="1"> <thead> <tr> <th>No.</th> <th>Parts Number</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>311-1993-00</td> <td>1</td> </tr> <tr> <td>B</td> <td>See difference table.</td> <td>1</td> </tr> <tr> <td>(B) C</td> <td>----- 345-6653-00</td> <td>(1) 1</td> </tr> <tr> <td>(A)</td> <td>-----</td> <td>(1)</td> </tr> <tr> <td>D</td> <td>See difference table.</td> <td>1</td> </tr> <tr> <td>(B) E</td> <td>----- 716-0878-50</td> <td>(1) 9</td> </tr> </tbody> </table>	No.	Parts Number	Qty	A	311-1993-00	1	B	See difference table.	1	(B) C	----- 345-6653-00	(1) 1	(A)	-----	(1)	D	See difference table.	1	(B) E	----- 716-0878-50	(1) 9	<p>Parts should not protrude from silk. RUBBER PART is number managed.</p> <p>Fit tabs of lower case to rectangular holes on MAIN-PWB in 3 places.</p> <p>*See Fig. 1. Insert tabs of BT-BRKT to rectangular holes on CONN-PWB in 3 places.</p> <p>Tightening sequence is specified on jig.</p>																	
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B	See difference table.	1																																							
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<p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge to avoid touching parts.</p>	<p><b>TOOLS</b></p> <table border="1"> <tr><td>①</td><td>Ionizer</td></tr> <tr><td>②</td><td>Electric screwdriver (0.4 ± 0.08 N·m)</td></tr> <tr><td>③</td><td>*Long bit 80 mm or more</td></tr> <tr><td></td><td>Sub material</td></tr> <tr><td>①</td><td></td></tr> <tr><td>②</td><td></td></tr> </table>	①	Ionizer	②	Electric screwdriver (0.4 ± 0.08 N·m)	③	*Long bit 80 mm or more		Sub material	①		②		<p><b>JIGS</b></p> <table border="1"> <tr><td>①</td><td>Set support</td></tr> <tr><td>②</td><td>Tightening template (MAIN)</td></tr> <tr><td>③</td><td></td></tr> </table>	①	Set support	②	Tightening template (MAIN)	③		<p>&lt;Difference table&gt;</p> <table border="1"> <thead> <tr> <th>MODEL NAME</th> <th>MODEL NO.</th> <th>MODEL CODE</th> <th>B: MAIN-PWB</th> <th>D: CONN-PWB</th> </tr> </thead> <tbody> <tr> <td>PN-3378I-C</td> <td>PN3378IC</td> <td>A1</td> <td>75-3378-E7</td> <td>79-3378-B7</td> </tr> <tr> <td>PN-3378I-D</td> <td>PN3378ID</td> <td>B5</td> <td>75-3378-F7</td> <td>79-3378-C7</td> </tr> <tr> <td>PN-3378I-E</td> <td>PN3378IE</td> <td>C6</td> <td>75-3378-F7</td> <td>79-3378-C7</td> </tr> </tbody> </table>	MODEL NAME	MODEL NO.	MODEL CODE	B: MAIN-PWB	D: CONN-PWB	PN-3378I-C	PN3378IC	A1	75-3378-E7	79-3378-B7	PN-3378I-D	PN3378ID	B5	75-3378-F7	79-3378-C7	PN-3378I-E	PN3378IE	C6	75-3378-F7	79-3378-C7
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<p>Process name <b>MAIN-PWB attachment</b></p>	<p style="text-align: right;"><b>PN-3378I-E-06</b></p>																																								

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (7)

Process drawing		Procedure			Control Points	
 <p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge of CD-MECH to avoid touching parts.</p>		<p>Contents of process</p> <ul style="list-style-type: none"> <li>Unlock the lock of connector flip lock (MECH-PWB side) using tweezers.</li> <li>Fit upper and lower tabs of processed ES-PLATE in U-CUT of LOWER-CASE (D), and then fix them at the same time.</li> <li>Hold antenna leader in jig ②. Connect BT-ANT to connector of BT-MODULE side.</li> <li>Allow the slack portion of the antenna line to droop upwards.</li> </ul>			<p>No. C</p> <p>Parts Number -----</p> <p>Qty (1)</p>	<p>(1) Open clip completely (45 degrees). After releasing connector clip, do not add any load (stress).</p> <p>(1) Fit lower tabs (both sides) of ES-PLATE on LOWER-CASE, and then fit upper tabs in U-CUT portion at same time. *See Fig. 1.</p> <p>Do not push excessively when. *See Fig. 2.</p>
		<p>① Allow slack without breaking ANT line at the base of the connector.</p> <p>② Do not allow upper part to protrude above the tab of the ANT guide.</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px dashed black; padding: 5px;"> <p>The state let slack</p>  </div> <div style="border: 1px dashed black; padding: 5px;"> <p>Parts should not protrude above the tab.</p>  </div> </div> <p>The connector joint attachment direction is specified.</p> 				
<p>Fig. 1</p>  <p>U-groove</p> <p>Dowel</p>	<p>Fig. 2</p>  <p>BT-ANT tip</p> <p>BT-MODULE side connector</p>	Sub material	TOOLS	JIGS		
①		①	Ionizer	①	Set support	
②		②	Tweezers	②	BT-ANNTEANA connection jig	
③		③		③		
④		④				
⑤		⑤				
⑥		⑥				
Process name					PN-3378I-E-07	
ES-PLATE attachment						

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (8)

Process drawing		Procedure			Control Points																																			
		<p>Contents of process</p> <p>No.    Parts Number    Qty</p> <ul style="list-style-type: none"> <li>MAIN-UNIT is on jig ①.</li> <li>Check the screw quantity.                             <ol style="list-style-type: none"> <li>MAIN-PWB fixing screws → 9 portions</li> <li>CD-MECH BRKT fixing screws (rear side) → 2 portions</li> </ol> </li> <li>Check insertion condition of processed CD-MECH and then mark the flat cable (two places of flat cable).</li> <li>Look into the square hole of the lower case from the A part. Check for missing rubber parts. (Shining a light from the bottom of lower case improves visibility while checking.)</li> </ul>			<p>Check the screw quantity by pointing with a finger. (There should be no missing screws.) Tightening and checking process must be separated.</p> <p>There should be no oblique insertion, incomplete insertion, or incomplete connector lock. Inserting and checking process must be separated.</p> <p>See Fig. 1. There should be no missing RUBBER PART.</p>																																			
		<p>Note 1) Use the ionizer. Note 2) Handle PWB from the edge of CD-MECH to avoid touching parts.</p>																																						
		<p>Sub material</p> <table border="1"> <tr><td>①</td><td>Oily magic (black)</td></tr> <tr><td>②</td><td></td></tr> <tr><td>③</td><td></td></tr> <tr><td>④</td><td></td></tr> <tr><td>⑤</td><td></td></tr> <tr><td>⑥</td><td></td></tr> </table>			①	Oily magic (black)	②		③		④		⑤		⑥		<p>TOOLS</p> <table border="1"> <tr><td>①</td><td>Ionizer</td></tr> <tr><td>②</td><td></td></tr> <tr><td>③</td><td></td></tr> <tr><td>④</td><td></td></tr> <tr><td>⑤</td><td></td></tr> <tr><td>⑥</td><td></td></tr> </table>			①	Ionizer	②		③		④		⑤		⑥		<p>JIGS</p> <table border="1"> <tr><td>①</td><td>Set support</td></tr> <tr><td>②</td><td></td></tr> <tr><td>③</td><td></td></tr> </table>			①	Set support	②		③	
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<p>Process name</p> <p>VISUAL CHECK</p>					<p>PN-3378I-E-08</p>																																			

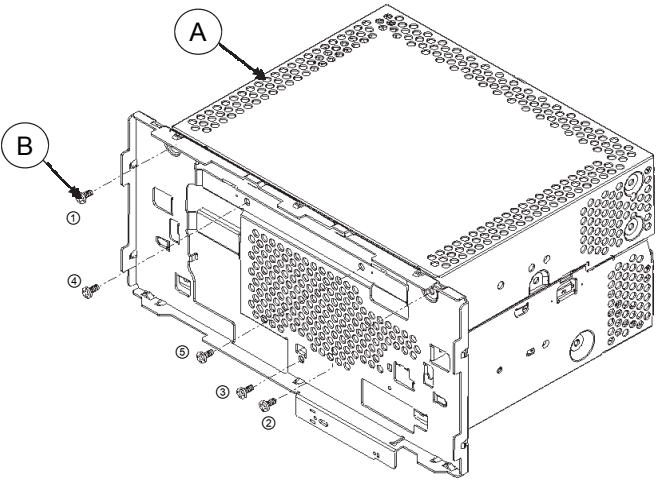
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (9)

Process drawing		Procedure			Control Points																					
		<table border="1"> <thead> <tr> <th>Contents of process</th> <th>No.</th> <th>Parts Number</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>· MAIN-UNIT is on jig ①.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>· Take processed CD-MECH and then run the flat-wire through the hole of ES plate.</td> <td>A B</td> <td>----- -----</td> <td>(1) (1)</td> </tr> <tr> <td>· Fit the CD Mechanism part while aligning the front surface with the positioning guide inside the main unit body ES plate.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>· Attach BRKT portion of CD-MECH to LOWER CASE.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Contents of process	No.	Parts Number	Qty	· MAIN-UNIT is on jig ①.				· Take processed CD-MECH and then run the flat-wire through the hole of ES plate.	A B	----- -----	(1) (1)	· Fit the CD Mechanism part while aligning the front surface with the positioning guide inside the main unit body ES plate.				· Attach BRKT portion of CD-MECH to LOWER CASE.				<p>Fit dowels in 2 places.</p> <p>Fit dowels in 2 places.</p>	
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⑤	⑤																									
⑥	⑥																									
Process name <b>CD-MECH attachment</b>					<b>PN-3378I-E-09</b>																					

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (10)

Process drawing		Procedure			Control Points									
		<p>Contents of process</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Parts Number</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>-----</td> <td>(1)</td> </tr> <tr> <td>B</td> <td>310-1916-00</td> <td>1</td> </tr> </tbody> </table>			No.	Parts Number	Qty	A	-----	(1)	B	310-1916-00	1	<p>Fit tabs in 4 places and dowels in 2 places. *See Fig. 1.</p> <p>The flip lock should be open to the specified position (45 degrees). If not open, open it with a jig.</p> <p>Do not touch the terminal portion. Insert part all the way securely. (The notch of FFC is aligned with the terminal of connector.) *See Fig. 2.</p>
No.	Parts Number	Qty												
A	-----	(1)												
B	310-1916-00	1												
<p>Fig. 1</p>		<p>Fig. 2</p>			<p>Take MAIN-UNIT from jig ①.</p>									
		<p>Note 1) Use the ionizer. Note 2) Handle SET from the edge to avoid touching parts.</p>												
Sub material		TOOLS		JIGS										
①		①	Ionizer	①	Set support									
②		②		②										
③		③		③										
④		④												
⑤		⑤												
⑥		⑥												
Process name				PN-3378I-E-10										
UPPER CASE attachment														

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (11)

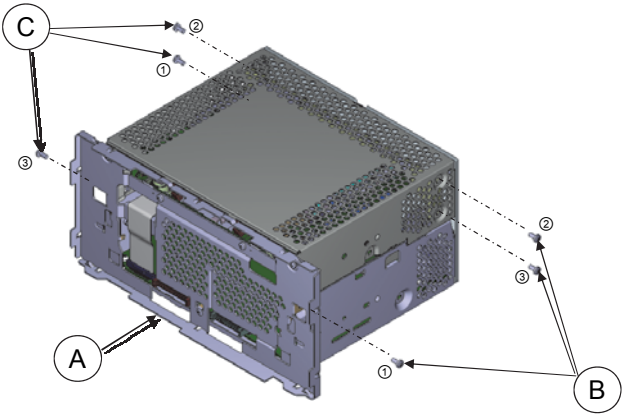
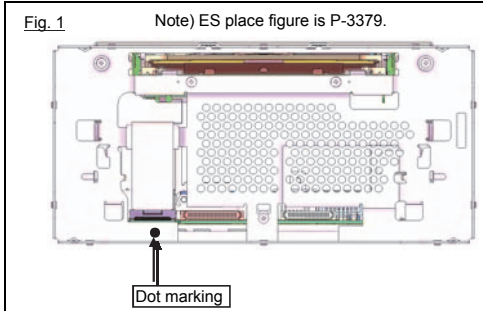
Process drawing		Procedure			Control Points																					
 <p>Note 1) Use the ionizer. Note 2) Handle SET from the edge to avoid touching parts.</p>		<p>Contents of process</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Parts Number</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>-----</td> <td>(1)</td> </tr> <tr> <td>B</td> <td>714-2606-8B</td> <td>5</td> </tr> </tbody> </table>			No.	Parts Number	Qty	A	-----	(1)	B	714-2606-8B	5	<p>Tighten in the order of ①→⑥. (Tightening sequence is specified for jig ③.)</p>												
		No.	Parts Number	Qty																						
A	-----	(1)																								
B	714-2606-8B	5																								
<p>Attach MAIN-UNIT (A) to jig ①. (Rear side of MAIN-UNIT is facing downward. LOWER CASE is facing toward you.) Attach jig ② on both sides of MAIN-UNIT.</p> <p>Attach jig ③ on front side of MAIN-UNIT and fix with MACHINE SCREW (B).</p> <p>Remove jig ③ and jig ② from MAIN-UNIT.</p>																										
<table border="1"> <thead> <tr> <th>Sub material</th> <th>TOOLS</th> <th>JIGS</th> </tr> </thead> <tbody> <tr> <td>①</td> <td>① Ionizer</td> <td>① Set rear support</td> </tr> <tr> <td>②</td> <td>② Electric screwdriver (0.4 ± 0.08 N·m)</td> <td>② Bracket hole position jig</td> </tr> <tr> <td>③</td> <td>③</td> <td>③ Screw drop prevention cover (FRONT)</td> </tr> <tr> <td>④</td> <td>④</td> <td></td> </tr> <tr> <td>⑤</td> <td>⑤</td> <td></td> </tr> <tr> <td>⑥</td> <td>⑥</td> <td></td> </tr> </tbody> </table>		Sub material	TOOLS	JIGS	①	① Ionizer	① Set rear support	②	② Electric screwdriver (0.4 ± 0.08 N·m)	② Bracket hole position jig	③	③	③ Screw drop prevention cover (FRONT)	④	④		⑤	⑤		⑥	⑥		<p>Process name</p> <p><b>Screwing-1</b></p>			<p><b>PN-3378I-E-11</b></p>
Sub material	TOOLS	JIGS																								
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⑤	⑤																									
⑥	⑥																									

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (12)

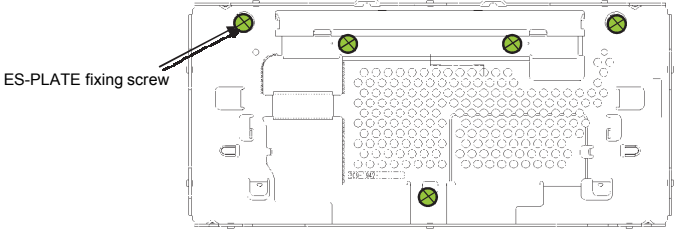
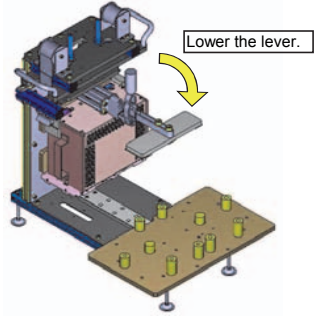
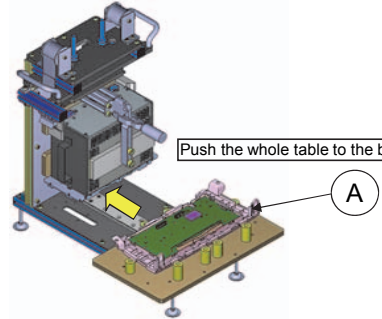
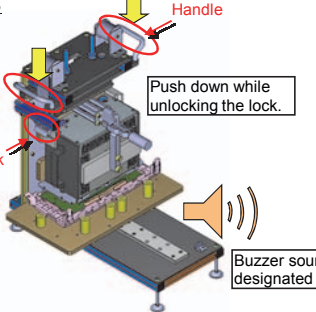
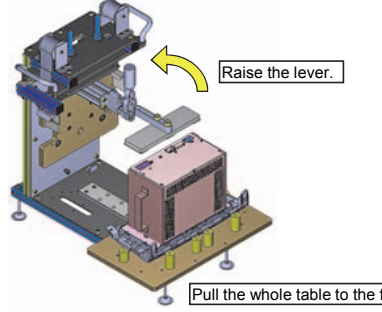
Process drawing		Procedure			Control Points	
<p>① Tilt lever toward you.</p> <p>② A buzzer sounds.</p> <p>③ Return the lever to the back position.</p>		<p>Contents of process</p> <ul style="list-style-type: none"> <li>Remove MAIN-UNIT (A) from jig ①. Set MAIN-UNIT (A) on jig ②.</li> <li>Push lever of jig ② to the front until a buzzer sounds.</li> <li>If a buzzer sounds, return the lever to the back position and remove MAIN-UNIT.</li> </ul>	No.	Parts Number	Qty	<p>When starting operation, check the push tension. Tension = 50 +/- 10 N.</p>
<p>OK: FFC lock locked condition</p> <p>Not OK: Incomplete lock of FFC lock</p> <p>Note 1) Use the ionizer. Note 2) Handle SET from the edge to avoid touching parts.</p>		<ul style="list-style-type: none"> <li>Check the insertion condition.</li> </ul>				
Sub material		TOOLS		JIGS		
①		①	Ionizer	①	Set rear support	
②		②		②	FFC lock jig	
③		③		③		
④		④				
⑤		⑤				
⑥		⑥				
Process name						PN-3378I-E-12
FFC lock						



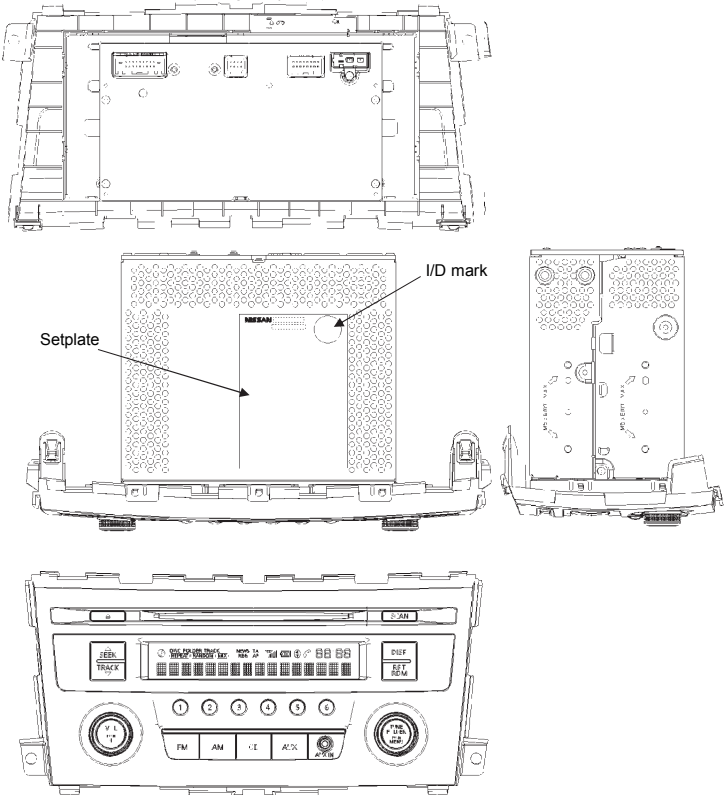
# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (14)

Process drawing		Procedure			Control Points	
 <p>Note 1) Use the ionizer. Note 2) Handle SET from the edge to avoid touching parts.</p> <p>Fig. 1 Note) ES place figure is P-3379.</p> 		Contents of process				
		No.	Parts Number	Qty		
		• Place MAIN-UNIT (A) on jig ① and place jig ② on both sides of MAIN-UNIT. (Face rear side of MAIN-UNIT downward, and face LOWER CASE toward you.)	A	-----	(1)	
		• Turn over jig ②, and place jig ② on jig ① again. Secure left side of MAIN-UNIT with MACHINE SCREW (B).	B	714-2606-8B	3	Tighten in the order of ①→③.
		• Turn over jig ②, and attach jig ② on jig ① again. Secure right side of MAIN-UNIT with MACHINE SCREW (C).	C	714-2606-8B	3	Tighten in the order of ①→③.
		• Turn over with jig ② place on MAIN-UNIT. Place MAIN-UNIT on jig ① again. (Face rear side of MAIN-UNIT downward, and face LOWER CASE toward you) Take jig ② from MAIN-UNIT.				
		• Check insertion condition. When it is OK, apply magic marking.				There should be no oblique insertion, incomplete insertion, or incomplete connector lock. *See Fig. 1.
Sub material		TOOLS		Jigs		
①	Oily magic (black)	①	Ionizer	①	Set rear support	
②		②	Electric screwdriver (0.4 ± 0.08 N·m)	②	Bracket hole position jig (1 CD)	
③		③		③		
④		④				
⑤		⑤				
⑥						
Process name				PN-3378I-E-14		
Screwing-2						

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (15)

Process drawing	Procedure	Control Points												
 <p>ES-PLATE fixing screw</p> <p>Note) The figure is for reference purposes.</p>	<ul style="list-style-type: none"> <li>Check the screw quantity.                             <ol style="list-style-type: none"> <li>ES-PLATE fixing screws: 5 screws</li> </ol> </li> </ul>	<p>Check the screw quantity by pointing with a finger. (There should be no missing screws.)</p>												
<p>Fig. 1</p>  <p>Lower the lever.</p>	<p>Fig. 2</p>  <p>Push the whole table to the back.</p> <p>A</p>	<p>ES installation</p> <ol style="list-style-type: none"> <li>Attach jig ① on MAIN-UNIT. Lower a lever toward you. And lock the MAIN-UNIT. → See Fig. 1.</li> </ol>												
<p>Fig. 3</p>  <p>Handle</p> <p>Lock</p> <p>Push down while unlocking the lock.</p> <p>Buzzer sounds at the designated position.</p>	<p>Fig. 4</p>  <p>Raise the lever.</p> <p>Pull the whole table to the front.</p>	<ol style="list-style-type: none"> <li>Take ES-ASSY (A) from the POLY-BAG. Check the appearance.</li> </ol> <table border="1" data-bbox="1400 391 1601 454"> <thead> <tr> <th>No.</th> <th>Parts No.</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>See difference table.</td> <td>1</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>Attach ES-ASSY (A) on slide table of jig.</li> <li>Push the whole table to the back. → See Fig. 2.</li> <li>Grab handles with both hands, unlock jig and push down. → See Fig. 3.</li> <li>When buzzer sounds, release handle.</li> <li>Pull table and MAIN-UNIT toward you. Take MAIN-UNIT from jig. → See Fig. 4.</li> </ol>	No.	Parts No.	Unit	A	See difference table.	1						
No.	Parts No.	Unit												
A	See difference table.	1												
<p>Note 1) Use the ionizer. Note 2) Handle SET from the edge to avoid touching parts.</p>	<p>&lt;Difference table&gt;</p> <table border="1"> <thead> <tr> <th>MODEL NAME</th> <th>A: ES-ASSY</th> </tr> </thead> <tbody> <tr> <td>PN-IC, PN-ID</td> <td>45-3378-B0</td> </tr> <tr> <td>PN-IE</td> <td>45-3378-C0</td> </tr> </tbody> </table>	MODEL NAME	A: ES-ASSY	PN-IC, PN-ID	45-3378-B0	PN-IE	45-3378-C0	<p>JIGS</p> <table border="1"> <tbody> <tr> <td>①</td> <td>ES pressing jig</td> </tr> <tr> <td>②</td> <td></td> </tr> </tbody> </table> <p>TOOLS</p> <table border="1"> <tbody> <tr> <td>①</td> <td>Ionizer</td> </tr> </tbody> </table>	①	ES pressing jig	②		①	Ionizer
MODEL NAME	A: ES-ASSY													
PN-IC, PN-ID	45-3378-B0													
PN-IE	45-3378-C0													
①	ES pressing jig													
②														
①	Ionizer													
<p>Process name</p> <p>ES-ASSY attachment</p>		<p>PN-3378I-E-15</p>												

# ASSEMBLY INSTRUCTIONS / PN-3378I-E / UNIT (16)

Process drawing	Procedure	Control Points																																											
 <p data-bbox="159 1061 293 1078">&lt;Difference table&gt;</p> <table border="1" data-bbox="159 1078 407 1201"> <thead> <tr> <th>MODEL NAME</th> <th>I/D MARK</th> </tr> </thead> <tbody> <tr> <td>PN-3378I-C</td> <td>A0</td> </tr> <tr> <td>PN-3378I-D</td> <td>BG</td> </tr> <tr> <td>PN-3378I-E</td> <td>RA</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table> <div data-bbox="566 1093 1039 1161" style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Note 1) Use the ionizer. Note 2) Handle SET from the edge to avoid touching parts.</p> </div>	MODEL NAME	I/D MARK	PN-3378I-C	A0	PN-3378I-D	BG	PN-3378I-E	RA					<ul style="list-style-type: none"> <li>• Move pallet to the specified position.</li> <li>• Check the appearance.             <ul style="list-style-type: none"> <li>1) There should be no scratches, stains, or paint failure.</li> <li>2) Fit ES-ASSY with tabs in 10 places.</li> <li>3) There should be no missing screws, oblique insertion, or incorrect parts.                 <ul style="list-style-type: none"> <li>Left side: 3 screws</li> <li>Right side: 3 screws</li> <li>Rear side: 8 screws</li> </ul> </li> </ul> </li> <li>• Check the position of holes for BRKT.             <ul style="list-style-type: none"> <li>→ Fit jig ① on both sides.</li> </ul> </li> <li>• After the main unit (escutcheon) is turned to the front, lock the whole pallet.</li> <li>• Peel off setplate [setplate that has been printed] from sheet. Attach setplate on the specified top position of MAIN-UNIT.</li> <li>• Remove the lock of pallet. Move the pallet to the next process.</li> </ul>	<p>Check by pointing with a finger. (There should be no missing parts.) Turn pallet.</p> <p>On both sides, 4 pins of jig ① should fit smoothly.</p> <p>Apply SETPLATE only to the units that pass the appearance check. To avoid S/NO. skipping and to control sequence number in the later process, apply serial numbers in ascending numerical order. I/D mark = See difference table.</p>																															
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<p>Process name</p> <p style="text-align: center; font-size: 1.2em;">Finishing</p>			PN-3378I-E-38																																										