

Service Manual



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Product Information

General

Power Supply: 12V DC (10.5-14.4V), negative ground

Fuse: 15A

Suitable Speaker Impedance: 4 -8 Ω

Aux-In level: 500mV

Audio Section

Maximum Power Output: Mosfet 50W x 4 Channels

Continuous Power Output: 20W x 4 RMS

Pre-AMP Output Voltage: 3.0V

Subwoofer Output Voltage: 3.0V

FM tuner section

Frequency Range: 87.5 - 108MHz

Usable Sensitivity: Better than 15dB at S/N 30dB

AM tuner section

Frequency Range: 522 - 1620KHz

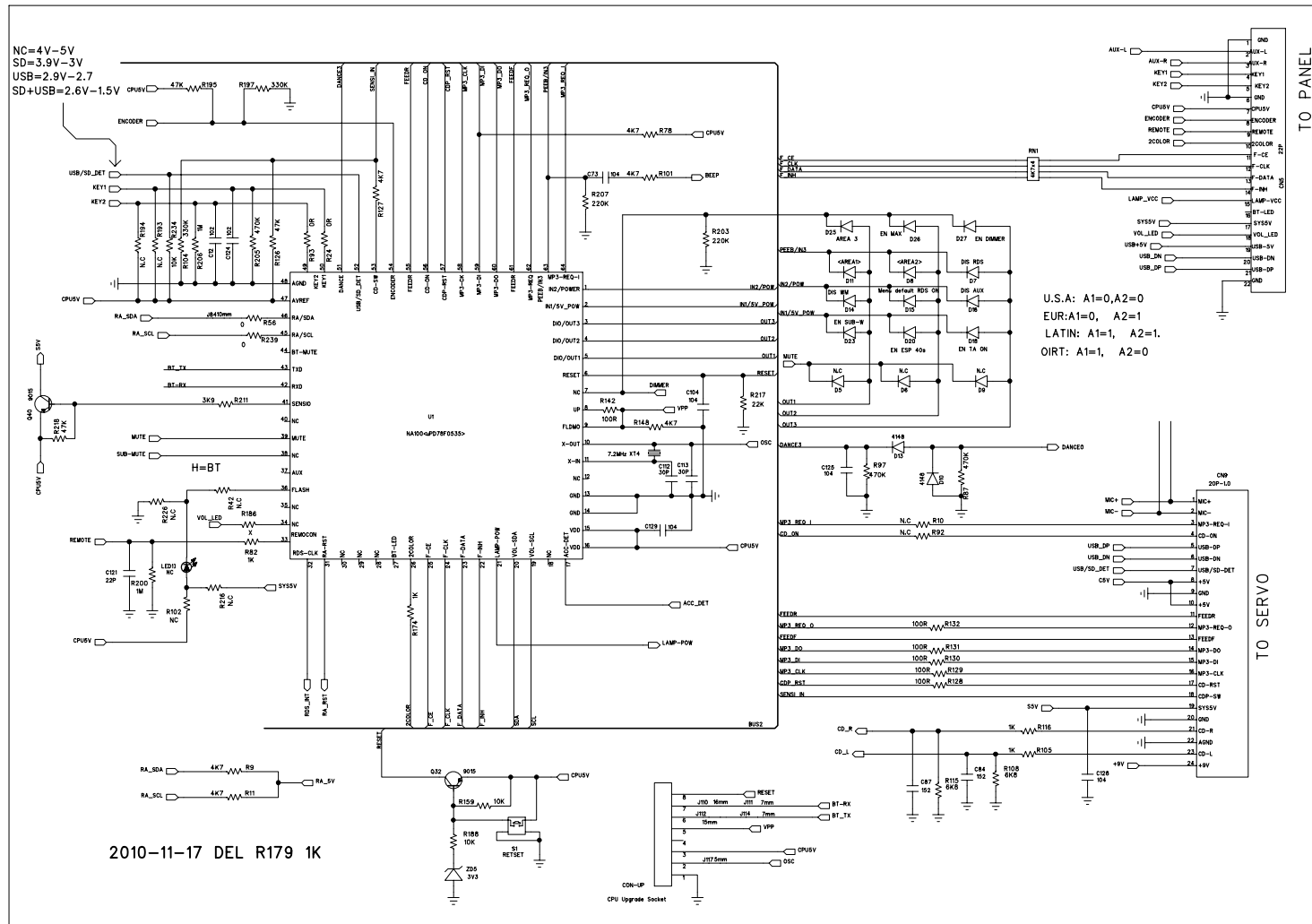
Usable Sensitivity: Better than 45dB at S/N 26dB

USB devices

USB Flash Memory: USB 1.1 & 2.0 Compatible

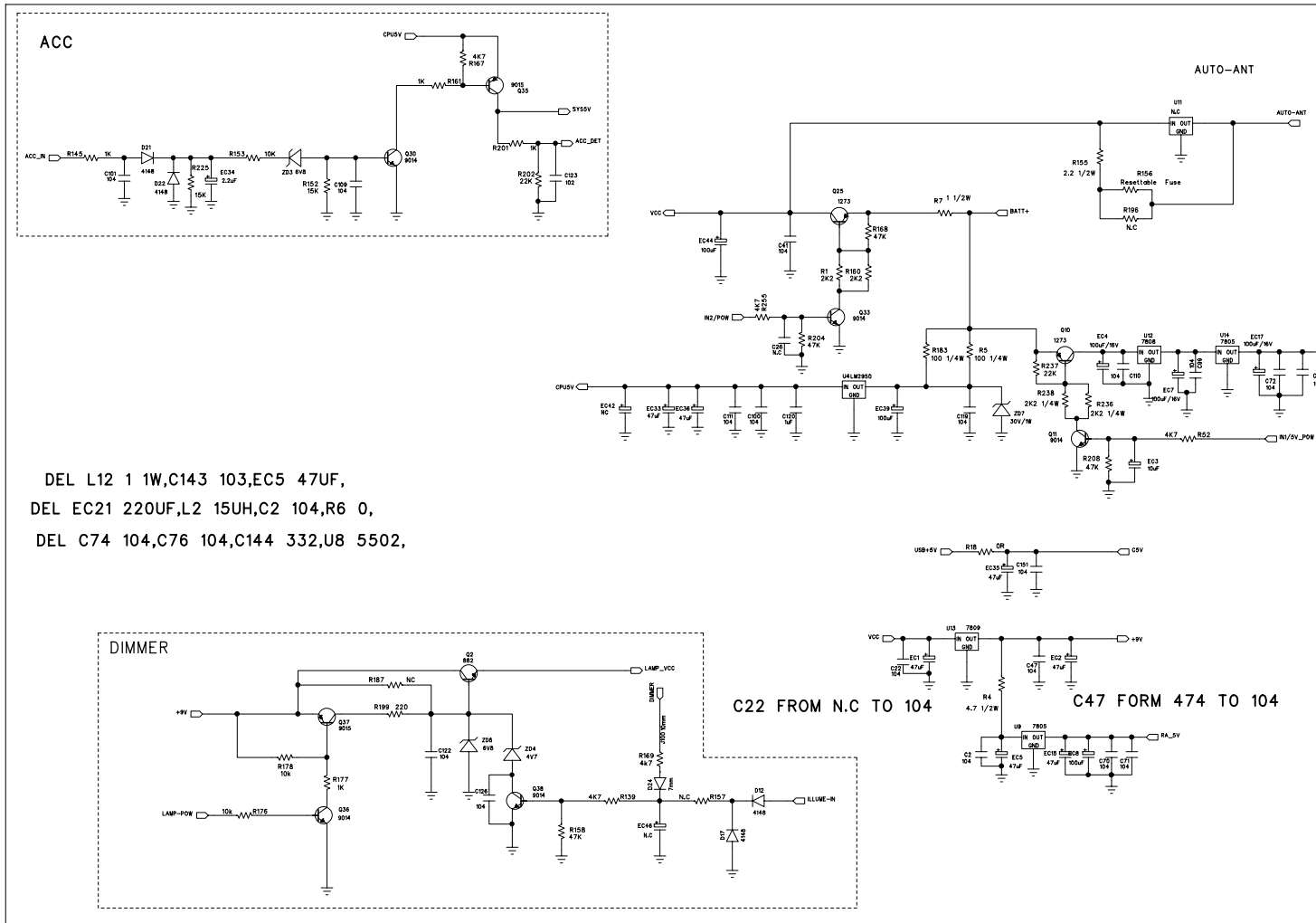
About Audio file

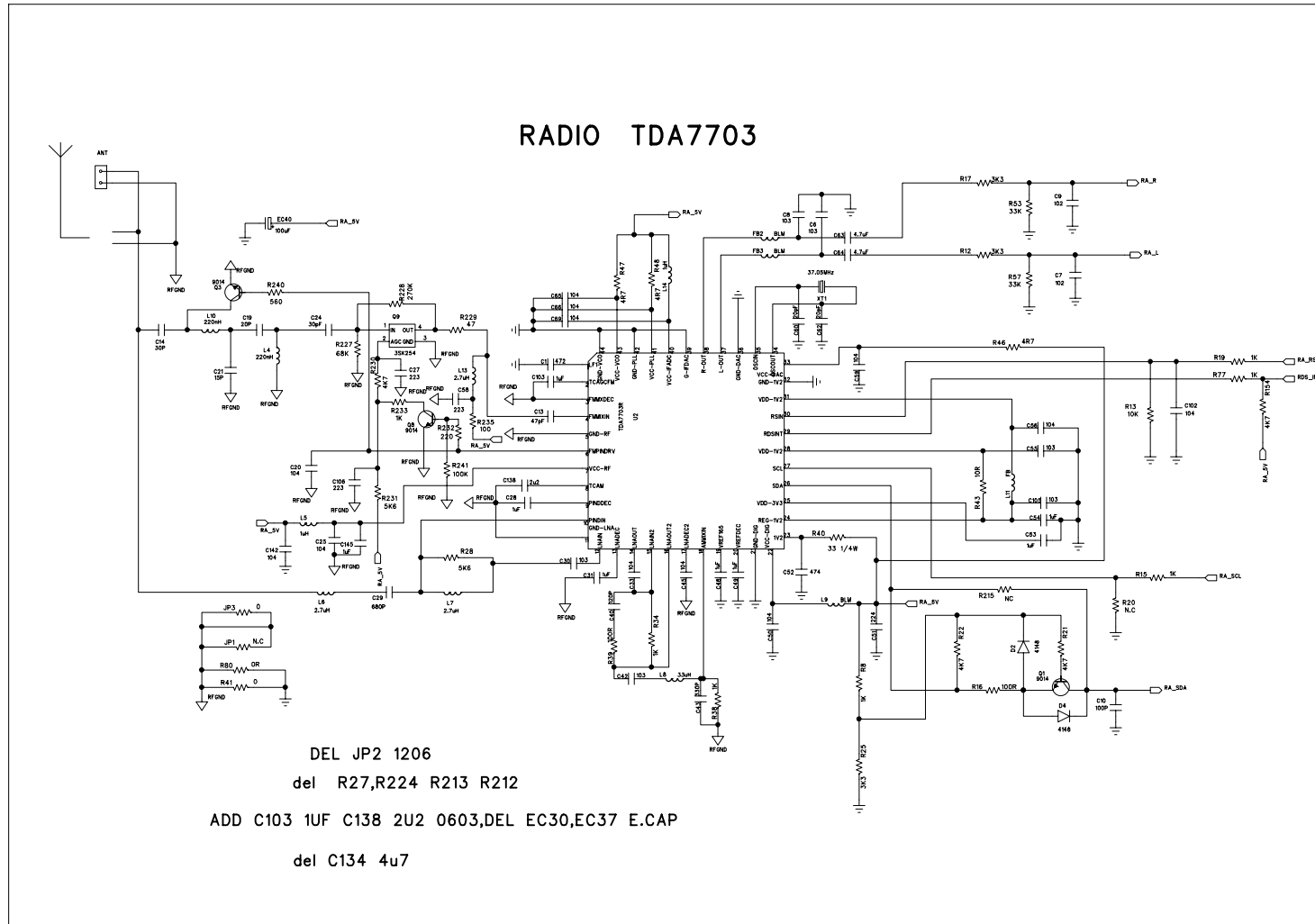
- USB or memory file system: FAT16, FAT32
- MP3/WMA bit rate: 32-320kbps and variable bit rate
- MP3 sampling frequencies: 8-48kHz
- WMA sampling frequencies: 32kHz, 44.1kHz, 48kHz
- ID3 tag v1.0 or later



MAIN BOARD-CIRCUIT DIAGAM

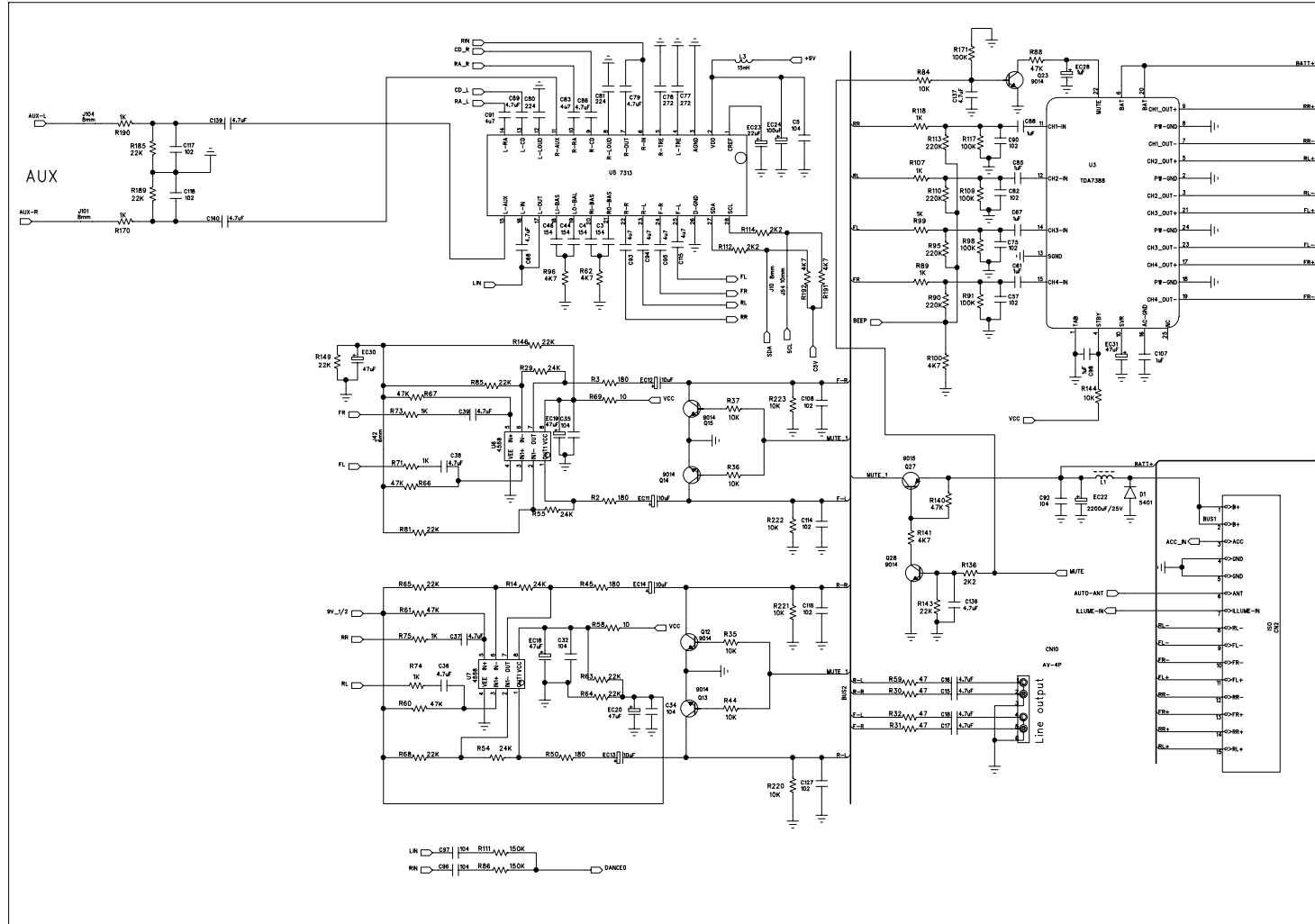
1-2





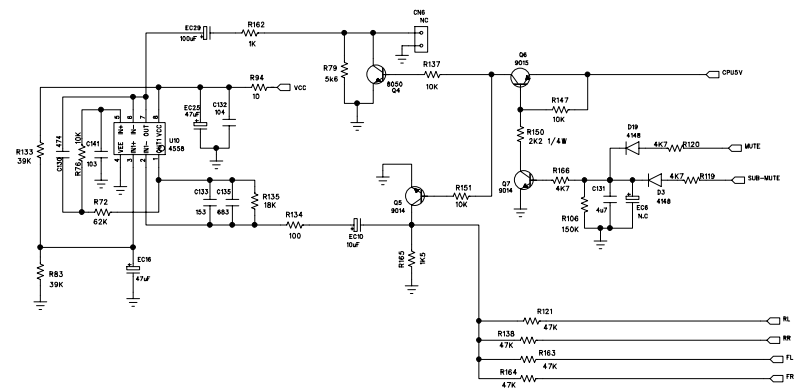
MAIN BOARD-CIRCUIT DIAGAM

1-4

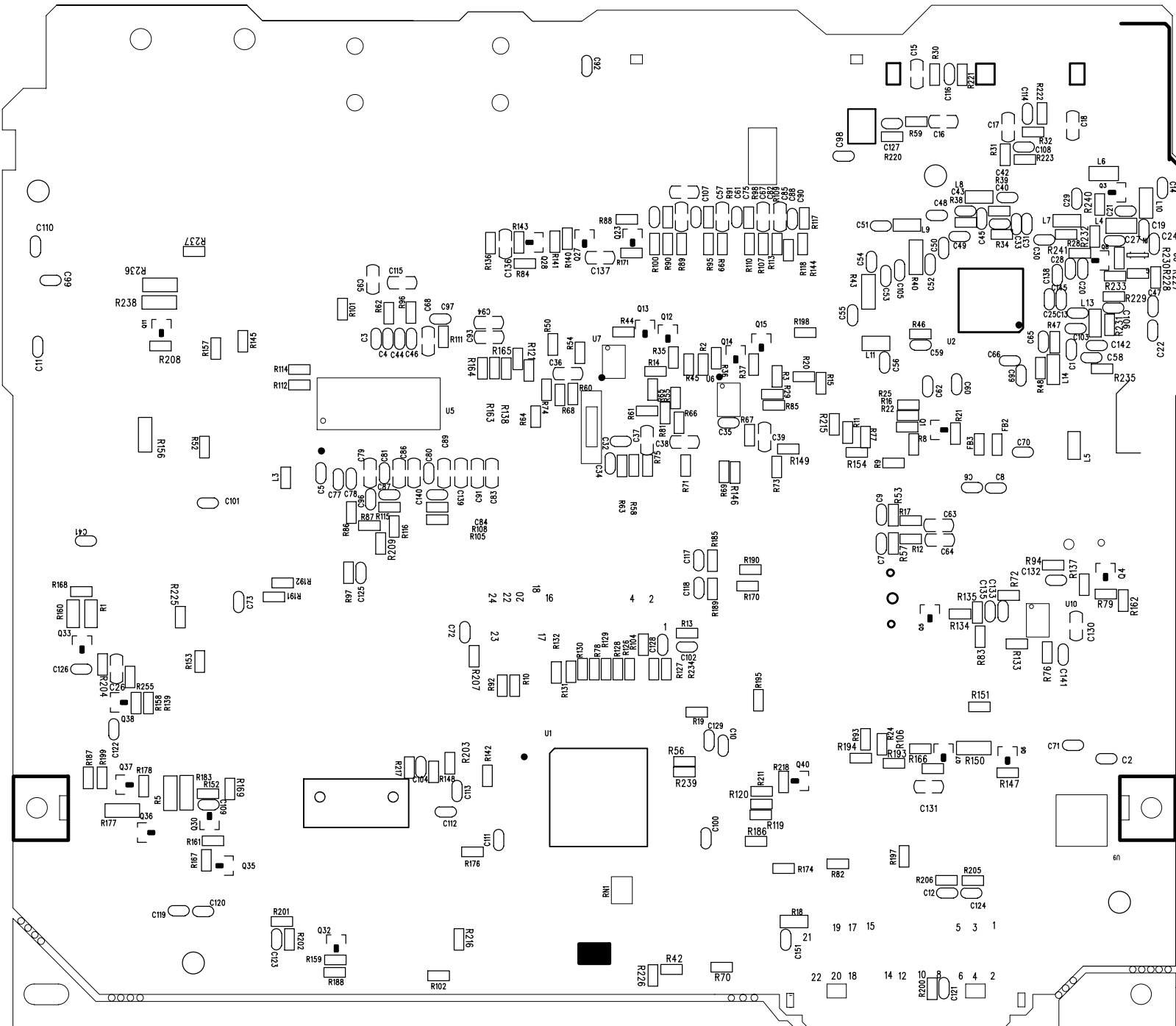


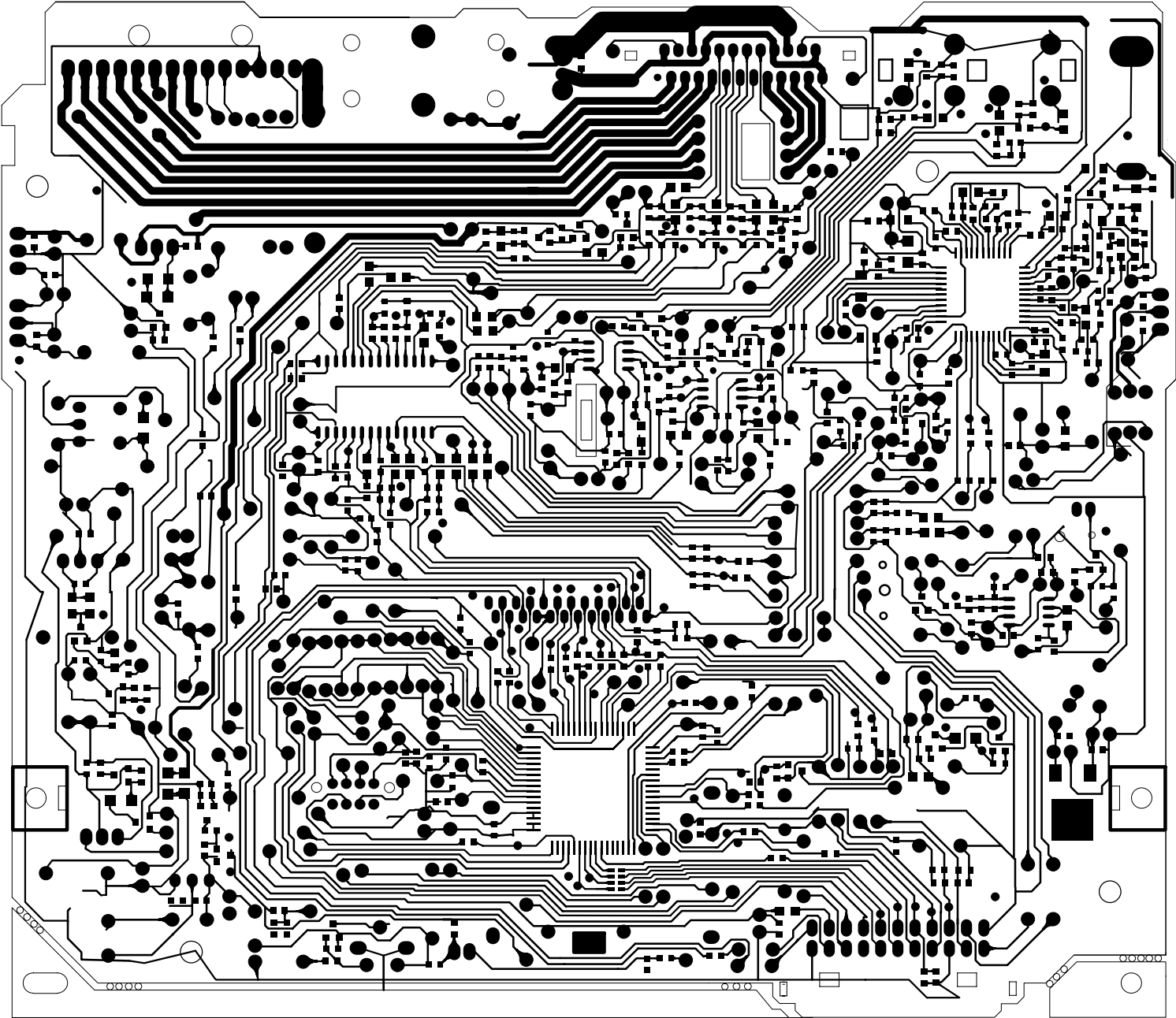
MAIN BOARD-CIRCUIT DIAGAM

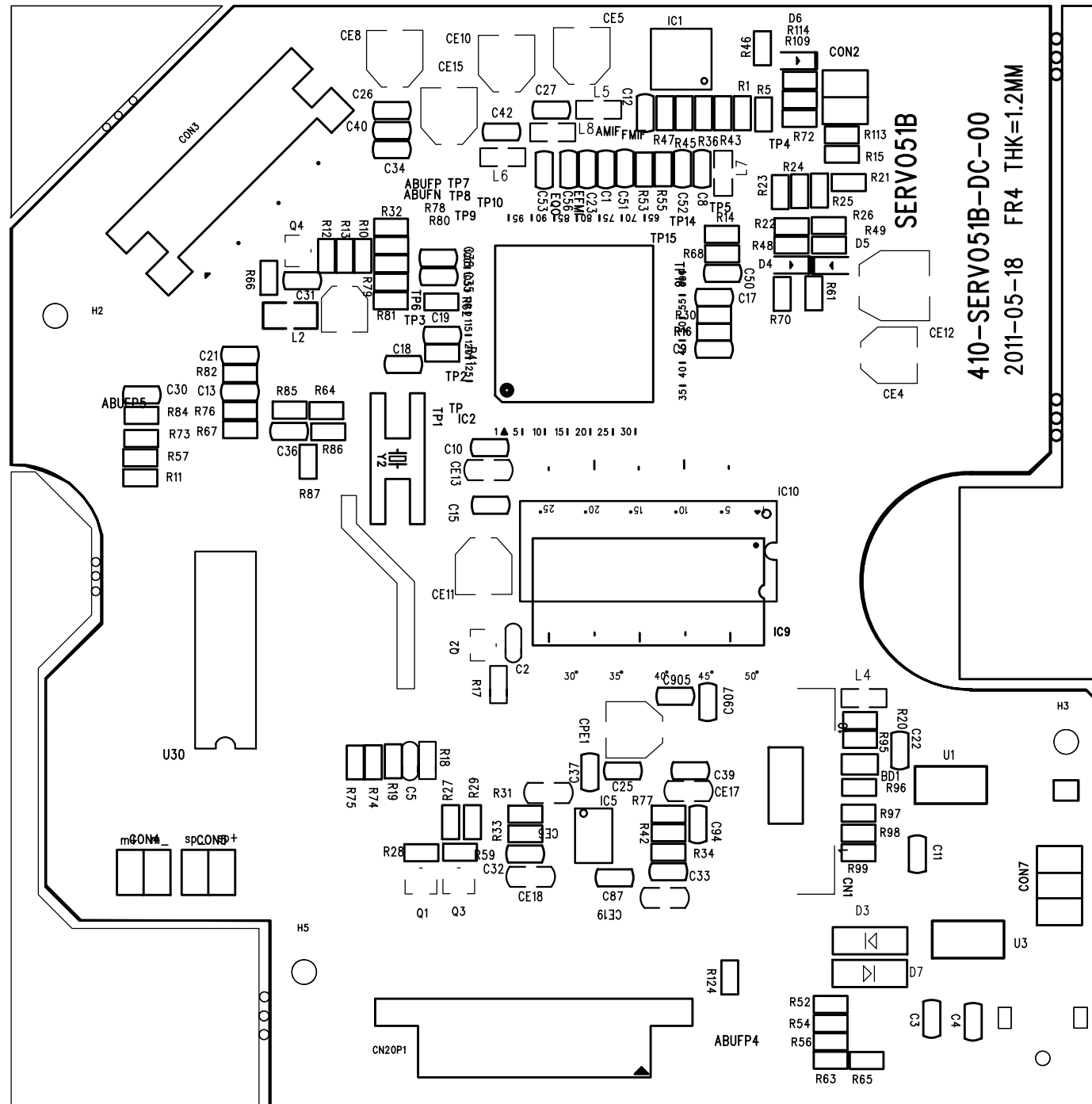
1-5

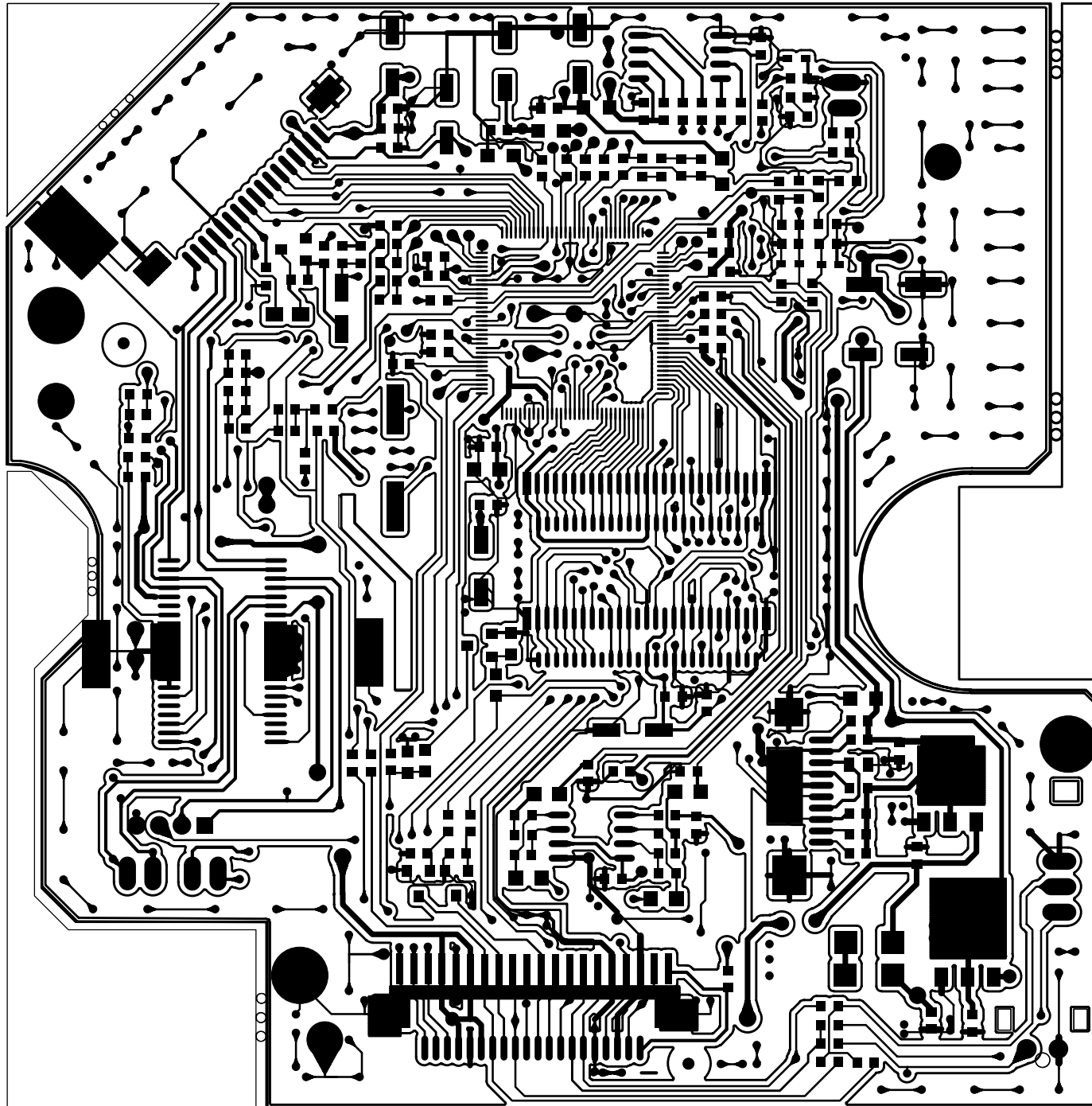


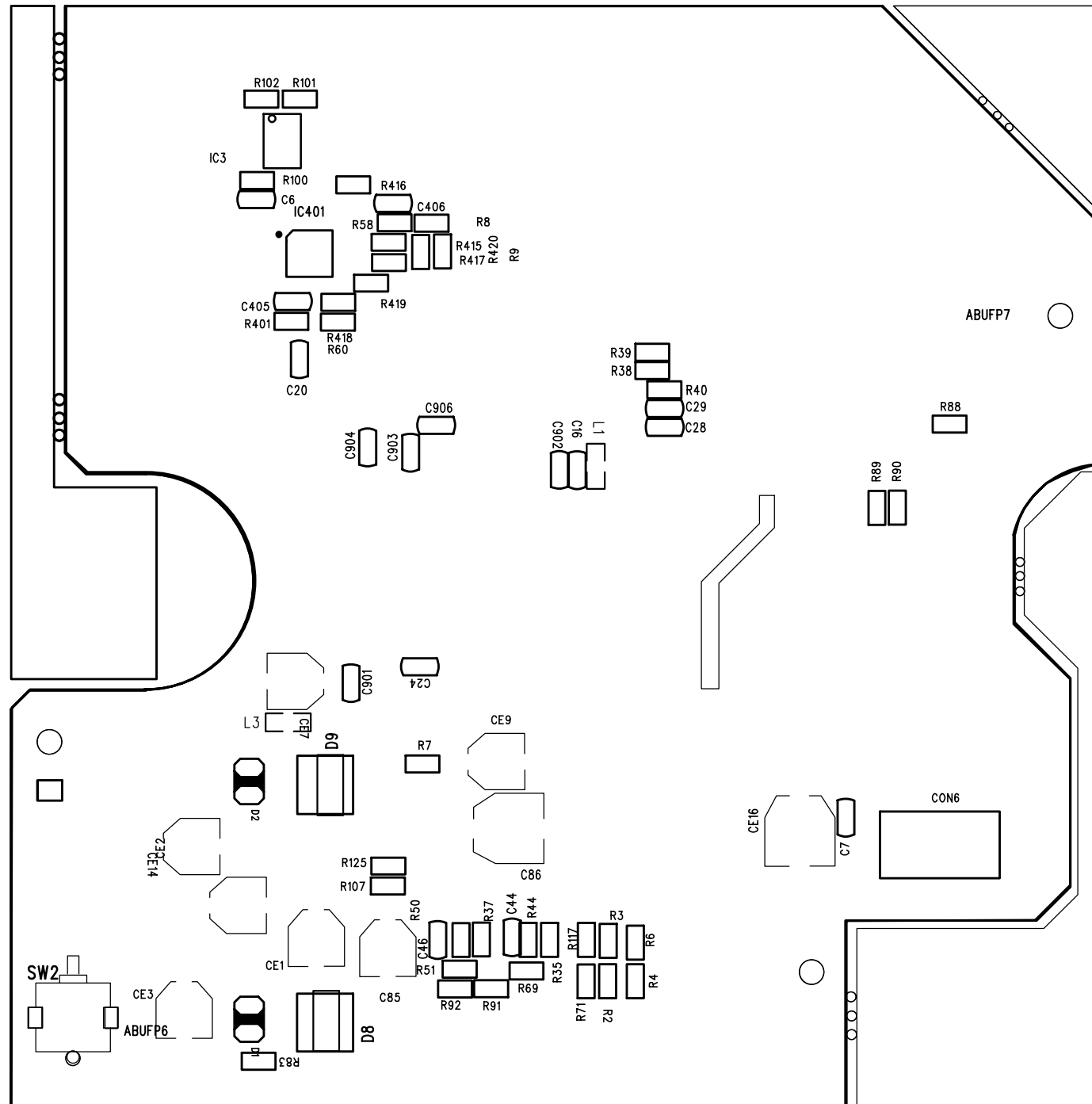
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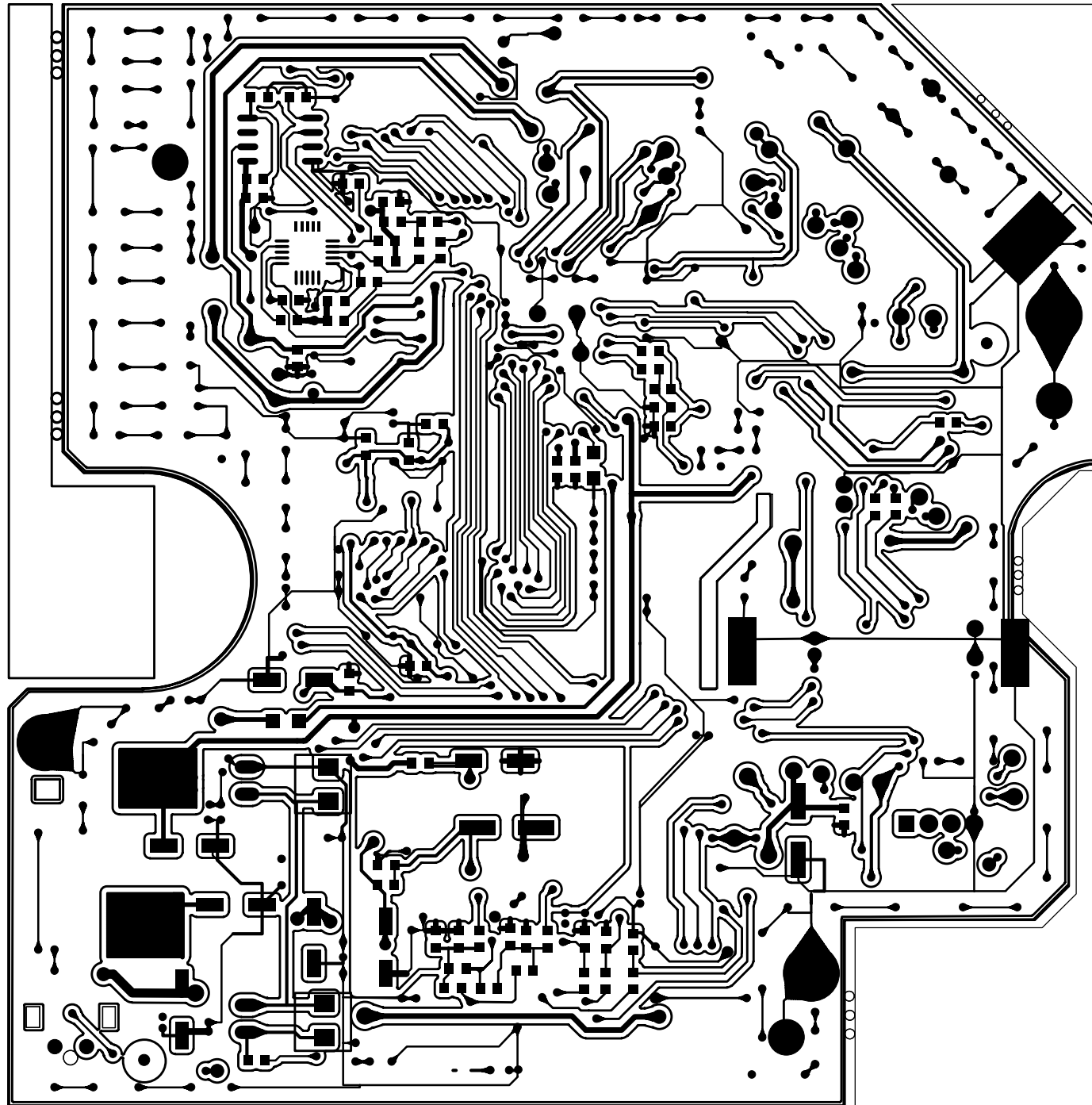






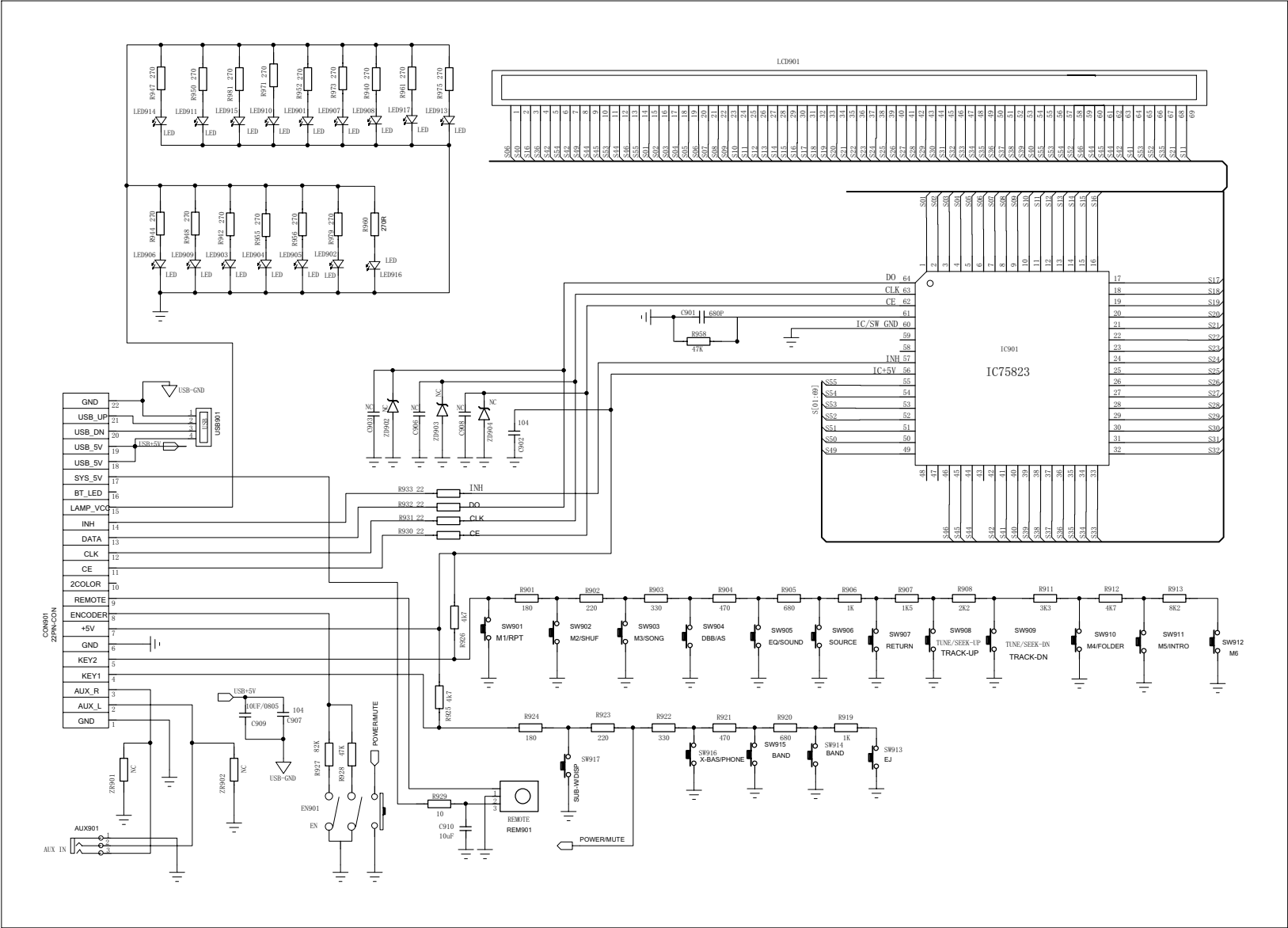






PANEL BOARD-CIRCUIT DIAGAM

3-1

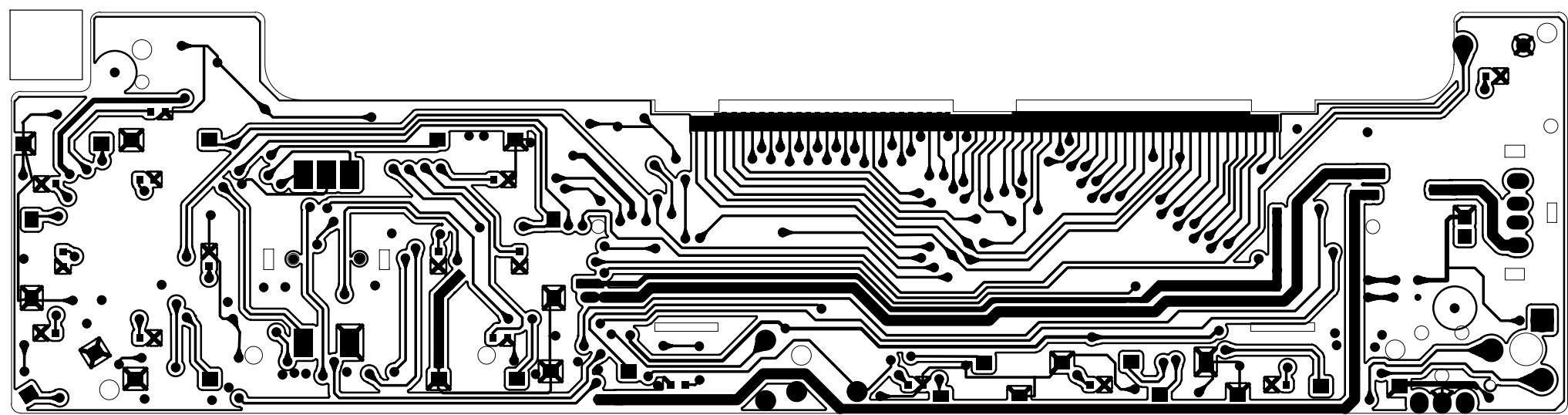


PANEL BOARD-LAYOUT DIAGAM

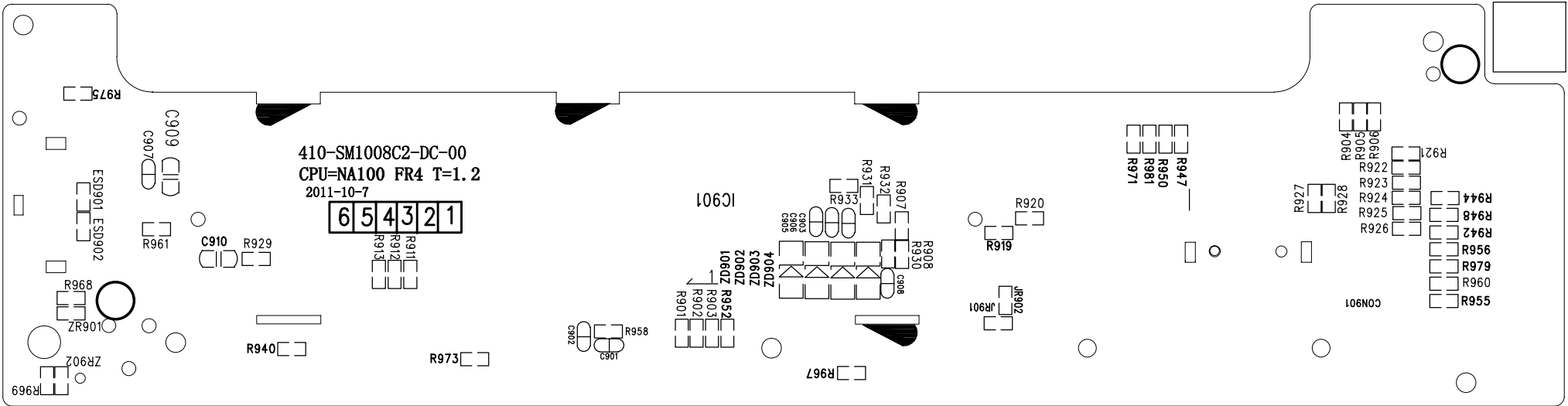
3-2



PANEL BOARD-LAYOUT DIAGAM

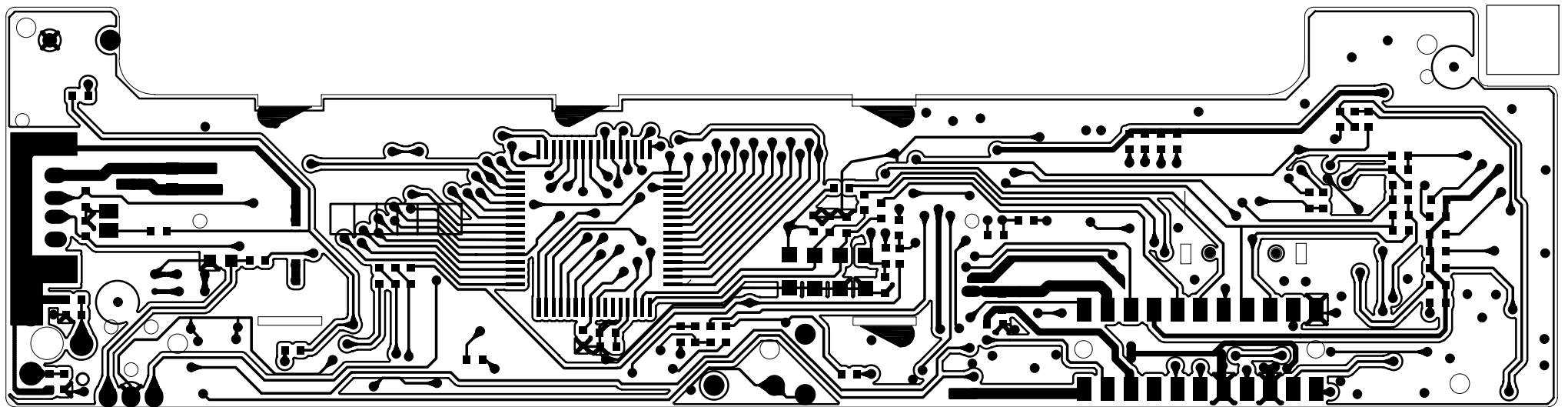


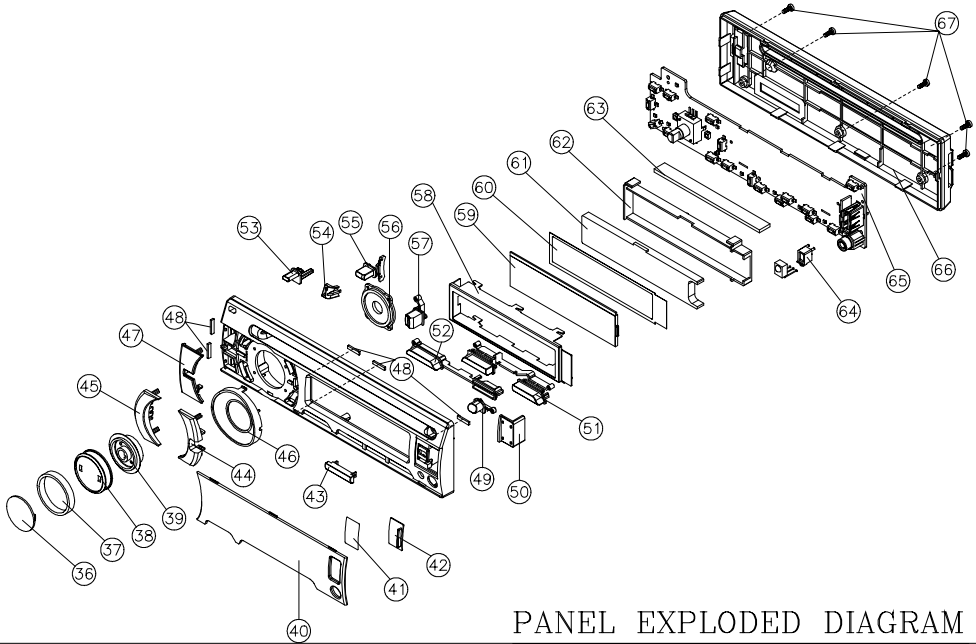
PANEL BOARD-LAYOUT DIAGAM



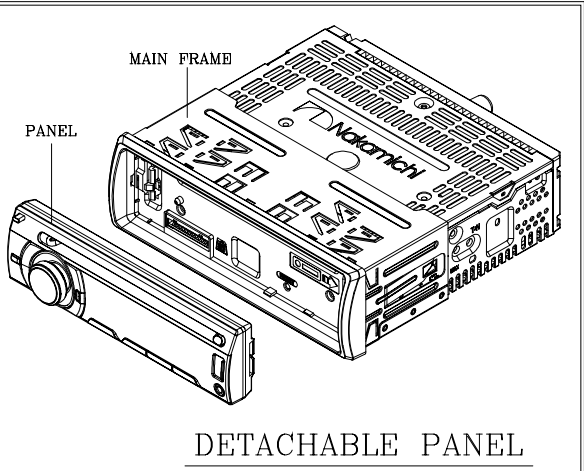
PANEL BOARD-LAYOUT DIAGAM

3-5

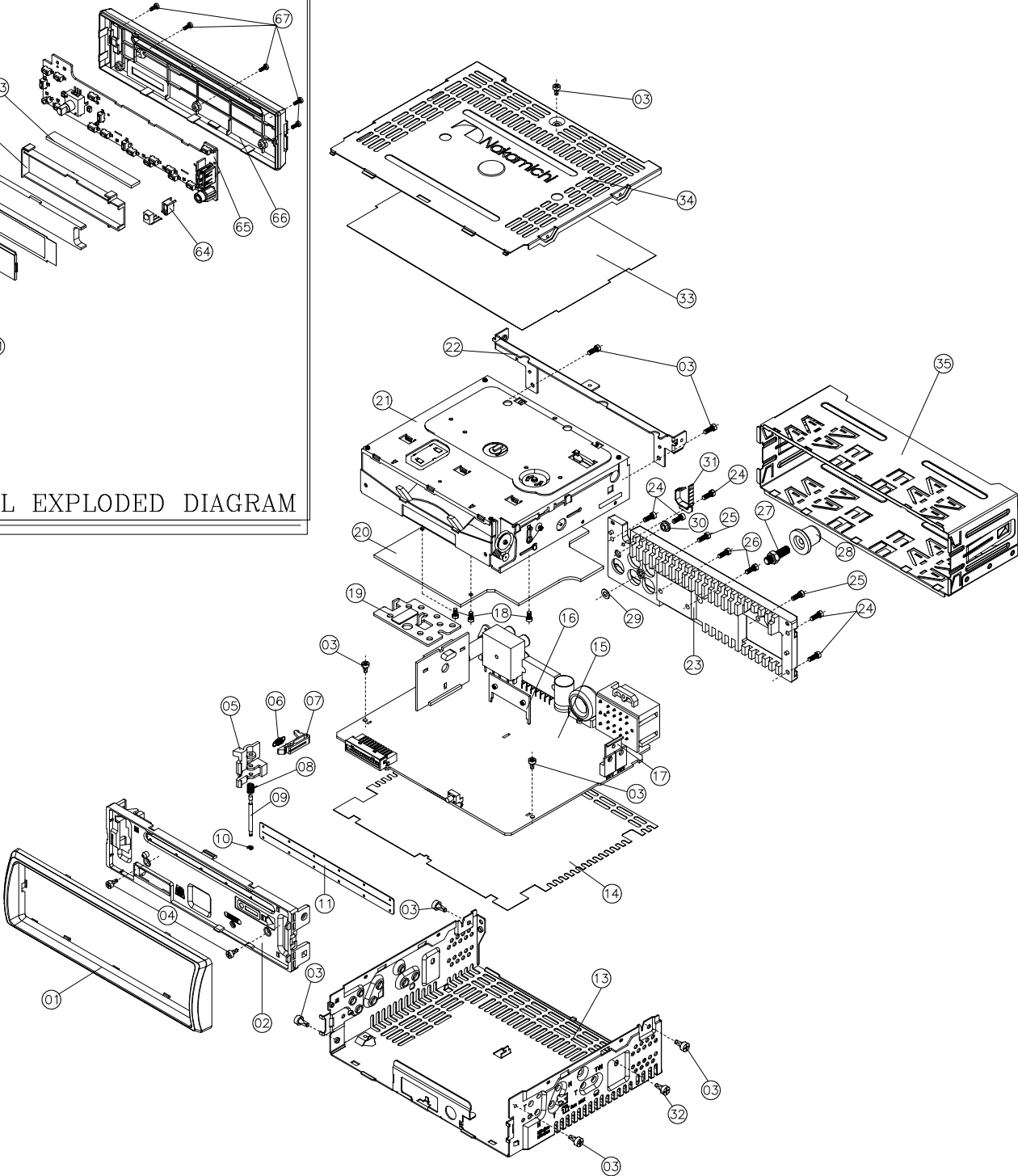




PANEL EXPLODED DIAGRAM



DETACHABLE PANEL



MAIN FRAME EXPLODED DIAGRAM

67	660-TB20083-24-00	SCREW 2.0x8.0mm	5	
66	600-SM100807-00-00	BACK PANEL	1	
65	410-SM1008C2-DC-00	PANEL PCB	1	
64	600-SM100826-00-00	SENSOR-BRACKET	1	
63	443-82008220-00-00	RUBBER CONTACT	1	
62	600-SM100829-00-00	LCD-HOLDER	1	
61	600-SM100830-00-00	LCD-REFLECTOR	1	
60	704-CBM200001-00-00	LCD DIFFUSION SHEET	1	
59	440-OC352470-00-00	LCD	1	
58	650-CBM200006-00-00	LCD BRACKET	1	
57	600-SM100819-00-00	BUTTON "B"	1	
56	600-SM100810-00-00	VOL-Illumination	1	
55	600-SM100818-00-00	BUTTON "A"	1	
54	600-SM100812-00-00	CD-Illumination	1	
53	600-SM100822-00-00	BUTTON "RELEASE"	1	
52	600-SM100816-00-00	SET BUTTON "D"	1	
51	600-SM100817-00-00	SET BUTTON "E"	1	
50	600-SM100824-00-00	USB Shade BRACKET	1	
49	600-SM100820-00-00	BUTTON CD Eject	1	
48	851-00852010-10-00	FOAM RUBBER 8.5x2.0,T=1.0mm	5	
47	600-SM100813-00-00	SET BUTTON "A"	1	
46	600-SM100828-00-00	VOL Adorn Ring	1	
45	600-SM100814-00-00	SET BUTTON "B"	1	
44	600-SM100815-00-00	SET BUTTON "C"	1	
43	600-SM100821-00-00	BUTTON Cover	1	
42	600-SM100825-00-00	USB COVER	1	
41	705-SM100801-00-00	PBT-SHEET	1	
40	600-SM100808-00-00	LENS (USB)	1	
39	600-SM100811-00-00	VOL-KNOB "B"	1	
38	600-SM100827-00-00	VOL-KNOB "A"	1	
37	444-HD105001-00-10	Rubber Ring	1	
36	600-SM100823-00-00	TOP VOL Cover	1	
35	650-CBM200005-00-00	HALF-SLIDEBV	1	
34	650-CBM200002-00-00	TOP COVER	1	
33	703-CBM200001-00-00	FELT	1	
32	660-MPH30060-21-00	SCREW 3.0x6.0mm	1	
31	650-CBM200007-00-00	WIRE-CLAMP	1	
30	600-FIX10031-00-00	Patch Plastic-PA-66	1	
29	701-CBM200002-00-00	FIBRE SHEET 7.0*3.5*0.4mm	1	
28	444-RUBND01-00-00	RUBBER COVER	1	
27	660-MH050120-01-01	SCREW M5x12xM5x5 Hexagonal Head	1	
26	660-MPH30160-21-00	SCREW 3.0x16mm	2	
25	660-TPH30101-21-00	SCREW 3.0x10mm	2	
24	660-BH2608B-21-00	SCREW 2.6x8mm	5	
23	650-SM100803-20-00	HEAT SINK	1	
22	650-CBM200003-00-00	CD MECHANISM BRACKET	1	
21	432-OCR01A4B-01-00	CD MECHANISM	1	
20	410-SERV051B-DC-00	SERVO PCB	1	
19	650-CBM20015-00-00	DRIVER IC HEAT SINK	1	
18	660-BPH2005B-27-00	SCREW 2.0x5mm	3	
17	650-000SL835-00-00	7808 IC BRACKET	1	
16	650-SM886A07-00-00	IC BRACKET	1	
15	410-SM1008AA-BA-00	MAIN PCB	1	
14	704-SM100802-00-00	PC SHEET	1	
13	650-SM100801-00-00	MAIN BRACKET	1	
12				
11	703-CBM200002-00-00	CD DUSTPROOF FELT	1	
10	661-BRM01500-04-00	"B" RING	1	
09	650-CBM200011-00-00	PIN	1	
08	650-CBM200009-00-00	SPRING "A"	1	
07	600-SM100803-00-00	PANEL LOCKER "B"	1	
06	650-CBM200010-00-00	SPRING "B"	1	
05	600-SM100802-00-00	PANEL LOCKER "A"	1	
04	660-BH2608B-24-00	SCREW 2.6x6	2	
03	660-BH2605B-21-00	SCREW 2.6x5	9	
02	600-SM100801-10-00	BASH(ND SD)	1	
01	600-SM100805-00-00	TRIM PLATE	1	
NO.	PART NUMBER	DESCRIPTION	QTY	

NO.	DESCRIPTION	MATERIAL	FINISH (COLOR)	QTY	REMARK
EXPLODED	EXPLODED	EXPLODED	EXPLODED	EXPLODED	EXPLODED
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NA100R

Car Audio System Player

INSTRUCTION MANUAL

CD MP3 WMA USB AUX-IN

Safety

WARNING

Stop the car before operating the unit.

Important to know...

- ★ To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- ★ **Caution:** Adjust the volume so that you can hear sounds outside the car. Driving with the volume too high may cause an accident.
- ★ **Condensation:** When the car is air-conditioned, moisture may collect on the laser lens. This may cause disc read errors. In this case, remove the disc and wait for the moisture to evaporate.
- ★ The illustrations in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the illustrations may differ from what appears on the actual equipment.
- ★ If you experience problems during installation, consult your Nakamichi dealer.
- ★ When you purchase external components, check with your Nakamichi dealer to make sure that they work with your model and in your area.

Maintenance

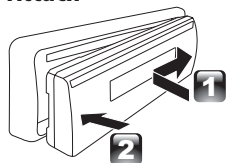
Cleaning the unit: Wipe off the dirt on the panel with a dry silicon or soft cloth. Failure to observe this precaution may result in damage to the monitor or unit.

Cleaning the connector: Wipe off dirt on the connector of the unit and faceplate. Use a cotton swab or cloth.

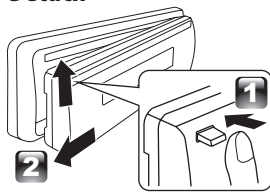
Preparation

How to attach/detach the faceplate

Attach



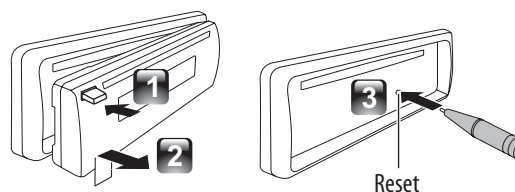
Detach



- ★ Do not expose the faceplate to direct sunlight, excessive heat, or humidity. Also avoid places with too much dust or the possibility of water splashing.
- ★ Keep the faceplate in its casing while detached.
- ★ The faceplate is a precision piece of equipment and can be damaged by shocks or jolts.

- ★ To prevent deterioration, do not touch the terminals of the unit and faceplate with your fingers.

How to reset your unit



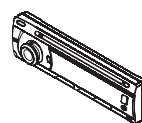
- ★ If this unit fails to operate properly, press the reset button.
- ★ The unit return to factory setting when the reset button is pressed.

What's in the box

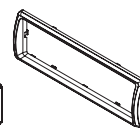
Check and identify the contents of your package:



Main unit
(with sleeve)



Front panel



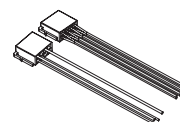
Trim plate



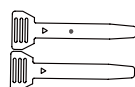
Carrying case
(for front panel)



Remote
control



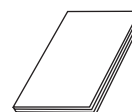
ISO male
connector



Disassembly tool
(2pcs)



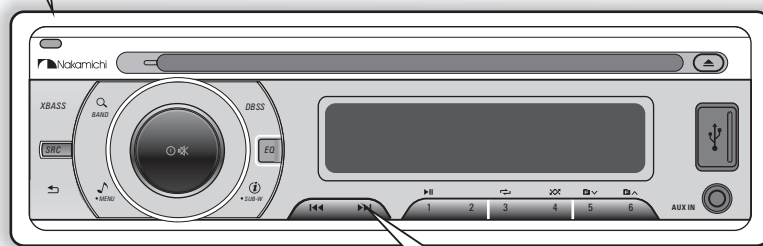
Screw x 4pcs



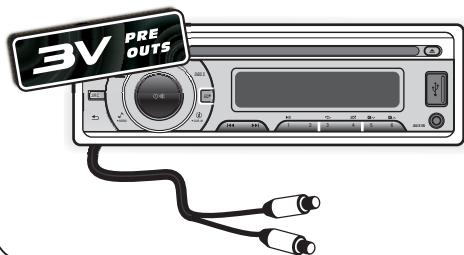
User manual

Highlight Features

This unit is allowed to connect the 3V preout for Subwoofer.



This unit is allowed to connect the 3V preout for Rear RCA Line Out.



Under Disc / USB / iPod / iPhone playback mode, press **⏮/⏭** buttons first, and then press and hold **⏮/⏭** buttons within one second, it is can be access into quick music file access track or file up/down browse feature.

Installation / Connection

Basic Procedure

- 1 Remove the key from the ignition switch, then disconnect the \ominus terminal of the car battery.
- 2 Make proper input and output wire connections.
- 3 Install the unit to your car.
- 4 Reconnect the \ominus terminal of the car battery.
- 5 Reset the unit.

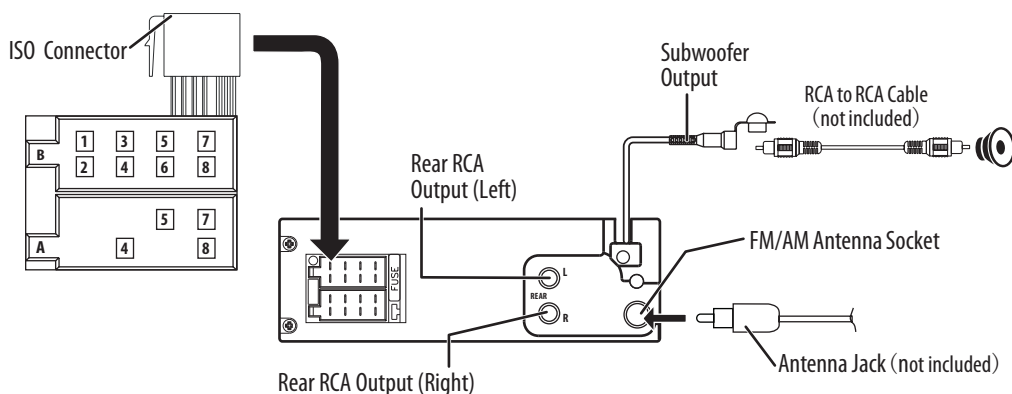
Warning

- ★ The unit can only be installed in a car with a 12V DC power supply, negative ground.
- ★ If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- ★ Disconnect the battery's negative terminal and make all electrical connections before installing the unit.
- ★ Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- ★ Be sure to ground this unit to the car's chassis again after installation.
- ★ If the power is not turned ON, the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.

Caution

- ★ If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- ★ Install this unit in the console of your vehicle. Make sure the faceplate will not hit the lid of the console (if any) when closing and opening.
- ★ After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- ★ Mount the unit so that the mounting angle is 30° or less.
- ★ If the fuse blows, first make sure the wires are not touching to cause a short circuit, then replace the old fuse with one that has the same rating.
- ★ Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the \ominus wires or ground them to any metal part in the car.
- ★ When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear).
- ★ Mounting and wiring this product requires skills and experience. For safety's sake, leave this work to professionals. If you experience problems during installation, consult your Nakamichi dealer.

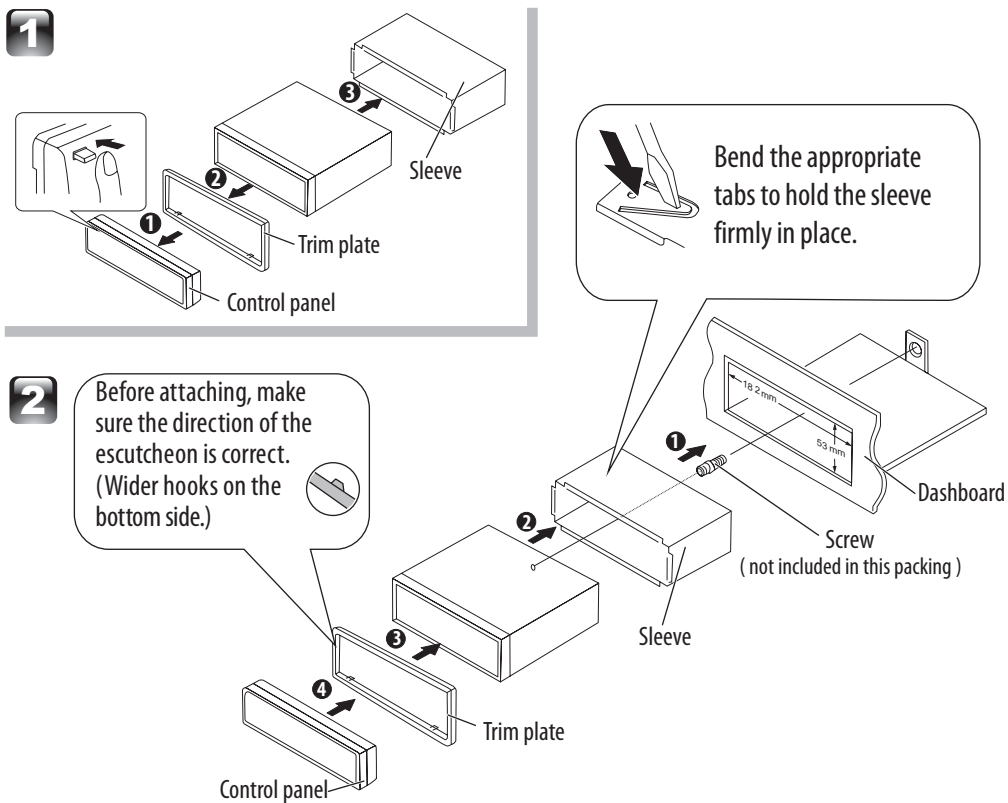
Wiring Connection



ISO Connector Wiring Chart

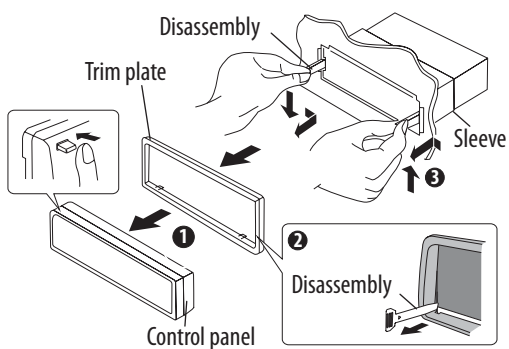
Pin	Color and function	Pin	Color and function
A4	Yellow Battery(+)	B1/B2	Violet \oplus / Violet/Black \ominus
A5	Blue Connect to system control terminal of the power AMP or auto antenna relay control terminal (Max 150MA 12VDC)	B3/B4	Grey \oplus / Grey/Black \ominus
A7	Red Ignition(ACC)	B5/B6	White \oplus / White/Black \ominus
A8	Black Ground	B7/B8	Green \oplus / Green/Black \ominus

Installing the unit

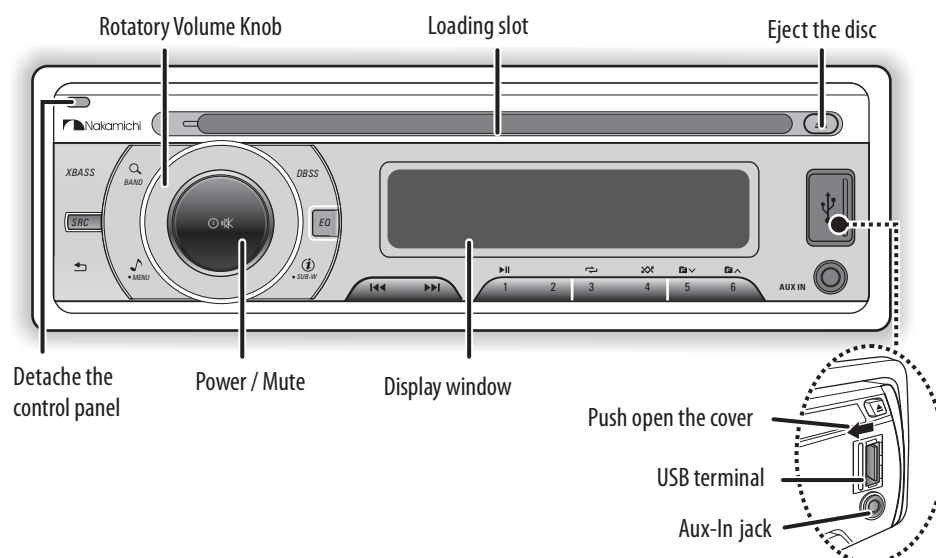


Removing the unit

- 1 Detach the control panel.
- 2 Engage the catch pin on the removal tools into the holes on both sides of the escutcheon, then pull it out.
- 3 Insert the disassembly tools deeply into the slots on each side, then follow the arrows instructions as shown on the right.






Basic Operation



When you press or hold the following button(s)...

Main unit	General operation
SRC	Select the available sources (Radio, Disc, USB, Aux-In), if the power is turned on.
Rotatory Volume knob	Rotate it to increase or decrease the volume. Select items.
 Power / Mute	<ul style="list-style-type: none"> Turn mute or restore volume. Turn the unit on. Press and hold again to turn the unit off. Confirms selection.
 BAND	<ul style="list-style-type: none"> Select the FM bands (FM1/ FM2/ FM3) or AM1 (MW1) / AM2 (MW2) . Under media playback to access into search mode.
1	Pause/resumes playback of a Disc, USB.
	<ul style="list-style-type: none"> Under Radio mode to enter into the Auto Seek mode, press and hold to enter into the Manual Seek mode. Under Media playback mode to skip track / file, press and hold to fast forward / backward.
MENU	To access into the Audio Menu mode, press and hold to enter into the System Menu mode.
DBSS	Press and hold to turn On or Off dynamic bass boost sound.
 SUB-W	<ul style="list-style-type: none"> To view the Clock, press and hold turn On or Off the subwoofer function. Under RDS mode to view RDS received information. Under Media playback mode to view play informations.
XBASS	Turn On or Off the Xbass booster function.
EQ	To adjust the EQ (Preset Equalizer) setting.
	Returns to the previous item.

Function Setting

- 1 Press  **MENU** to access into the **[AUDIO MENU]** mode, press and hold to enter into the **[MENU]** mode.
- 2 Press   repeatedly to select the item to be adjusted.
- 3 Turn the encoder volume knob to select a value / option.

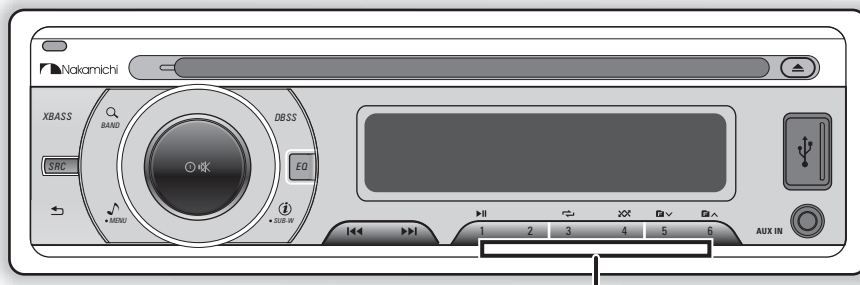
[AUDIO MENU]...

Item	Selectable Setting
BASS ADJUST	
BASS LEVEL	Adjust the level -7 to +7.
TREBLE ADJUST	
TREBLE LEVEL	Adjust the level -7 to +7.
BALANCE	Adjust the balance between the right and left speakers from 12R (full right) to 12L (full left).
FADER	Adjust the fader between the front and rear speakers from 12R (full rear) to 12L (full front).

[MENU]...

Item	Selectable Setting
CLOCK	
CLOCK SET	Adjust the Hours and Minutes
CLOCK FORMAT	Select the time format 12H or 24H
BEEP TONE	Turn On or Off this beep sound
DIMMER	Adjust the LCD display backlight level between Hight or Low

Listening to the Radio



- Hold for about 2 seconds to memorize the current station .
- Press briefly to recall memorized station.

- 1 Press **BAND** repeatedly to a band (FM1, FM2, FM3, AM1(MW1) or AM2(Mw2).
- 2 Press **SEARCH** to search for a station.
- 3 Press **SUB-W** repeatedly to view RDS received information.

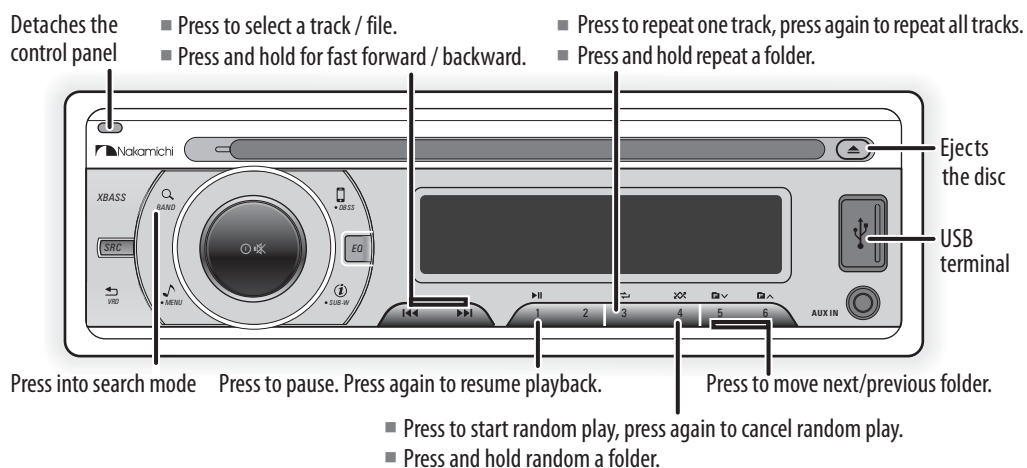
Adjust [MENU] mode settings

While listening to the radio...

- 1 Press and hold **MENU** to enter into the [MENU] mode.
- 2 Press **SEARCH** repeatedly to select the item to be adjusted.
- 3 Turn the encoder volume knob to select a value / option.

Item	Selectable Setting
AUTO STORE	Press the to access into Auto Store mode, the six strongest stations of the selected band are saved in preset channel automatically: FM1, FM2, FM3(1-6), AM1, AM2.
PTY (Program Type)	Once into the PTY mode, press the get into program type item, and rotating encoder volume knob to selected category. Available Program Type: POP M; ROCK M; EASY M; LIGHT M; CLASSICS; OTHER M; JAZZ M; COUNTRY; NATION M; OLDIES M; FOLK M; A-TEST; ALARM; NEWS; AFFAIRS; INFO; SPORT; EDUCATE; DRAMA; CULTURE; SCIENCE; VARIED; WEATHER; FINANCE; CHILDREN; SOCIAL; RELIGION; PHONE IN; TRAVEL; LEISURE; DOCUMENT
AF (Alternate Frequencies)	<ul style="list-style-type: none"> ■ ON: The unit will be searches for another station with stronger signal, but with the same program identification as the current station automatically. ■ OFF: Cancel
TA (Traffic Announcement)	<ul style="list-style-type: none"> ■ ON: When there is traffic announcement, the unit switches to the tuner mode (regardless of the current mode) and begins to broadcast the announcemet on traffic conditions. When the trafficanouncement is over, it returns to the previous mode. ■ OFF: Traffic announcement does not cut in.
RDS On/Off	Turn On or Off the RDS function.
AREA	Select suitable country region of the radio: USA; LATIN; EUROPE; RUSSIA(Ort); M-EAST; ASIA; JAPAN; AUST (Australia)
LOCAL SEEK	To receive more radio stations or only stations with strong signal, you can adjust the radio sensitivity.

Listening to a Disc/ USB device

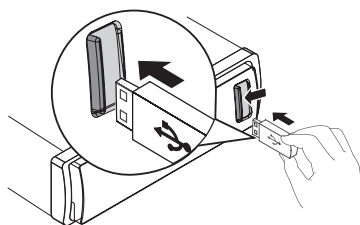


Playing a disc

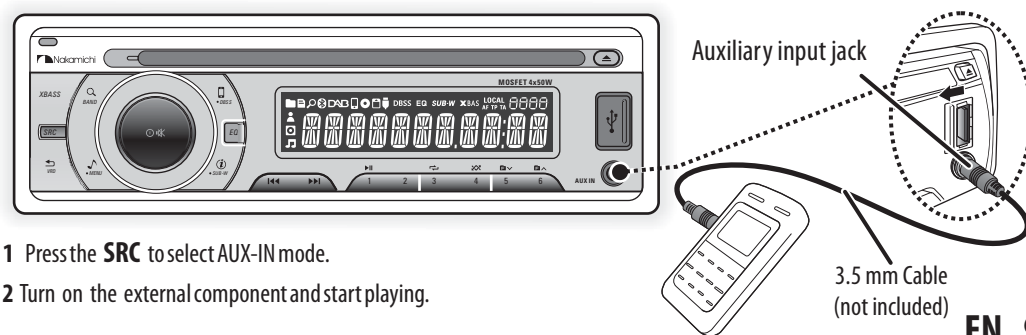
Insert the disc into the Disc Slot with label side facing up, the unit will play starts automatically.

Playing a USB device

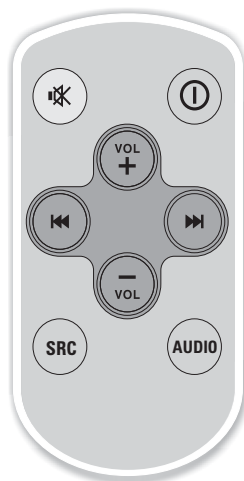
- 1 Slide the USB socket cover market  to the left.
- 2 Insert the USB device into the USB socket. The unit starts playing from the USB device automatically.



Listening to the other external components



Remote Control Operation



When you press or hold the following button(s)...

Main unit	General operation
	Turn mute or restore volume.
	Press turn the unit on or off.
	Press increase the volume.
	Press decrease the volume.
	<ul style="list-style-type: none">■ Under Radio mode to enter into the Auto Seek mode, press and hold to enter into the Manual Seek mode.■ Under Media playback mode to skip track / file, press and hold to fast forward / backward.
SRC	Select the available sources (Radio, Disc, USB or Aux-In), if the power is turned on.
AUDIO	Press to access into the Audio Menu mode.

Product Information

General

Power Supply: 12V DC (10.5-14.4V), negative ground

Fuse: 15A

Suitable Speaker Impedance: 4-8 Ω

Aux-In level: 500mV

Audio Section

Maximum Power Output: Mosfet 50W x 4 Channels

Continuous Power Output: 20W x 4 RMS

Pre-AMP Output Voltage: 3.0V

Subwoofer Output Voltage: 3.0V

FM tuner section

Frequency Range: 87.5 - 108MHz

Usable Sensitivity: Better than 15dB at S/N 30dB

AM tuner section

Frequency Range: 522 - 1620KHz

Usable Sensitivity: Better than 45dB at S/N 26dB

USB devices

USB Flash Memory: USB 1.1 & 2.0 Compatible

About Audio file

- USB or memory file system: FAT16, FAT32
- MP3/WMA bit rate: 32-320kbps and variable bit rate
- MP3 sampling frequencies: 8-48kHz
- WMA sampling frequencies: 32kHz, 44.1kHz, 48kHz
- ID3 tag v1.0 or later



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