

# XDR-S3HD

## SERVICE MANUAL

US Model

Ver. 1.0 2007.05



HD Radio Broadcasting was approved by the Federal Communications Commission in October 2002 as the system for digital AM and FM broadcasting in the U.S.

HD Radio technology features include:

- Static-free, clear radio reception.
- FM Multicasting – the ability to broadcast multiple program streams over a single FM frequency.
- A variety of “data services,” including text-based information – artist name, song title, etc. scrolled across your receiver display.
- Digital broadcasts in the same frequencies as analog broadcasts; listeners do not need to learn a new station number and today’s stations remain at their current place on the dial.

HD Radio technology is developed and licensed by iBiquity Digital Corporation and supported by the leaders of the broadcasting, consumer electronics and automotive industries.

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### SPECIFICATIONS

Time display	12-hour system
Frequency range	FM : 87.5 – 108 MHz AM : 530 – 1,710 kHz
Speaker	Approx. 6.6 cm (2 5/8 inches) dia. 4 Ω
Output	⌀ (headphone) jack (ϕ 3.5 mm stereo minijack)
Input	LINE IN jack (ϕ 3.5 mm stereo minijack)
Antenna terminal	75 Ω antenna terminal for FM Antenna terminal for AM
Power output	2.8 W + 2.8 W (at 10% harmonic distortion)
Power requirements	120 V AC, 60 Hz
Dimensions	Approx. 300 × 120 × 169 mm (w/h/d) (11 7/8 × 4 3/4 × 6 3/4 inches) not incl. projecting parts and controls
Mass	Approx. 3.6 kg (7 lb 15.8 oz) incl. power supply unit
Supplied accessories	Remote commander (1) FM wire antenna (1) FM dipole antenna (1) AM loop antenna (1) Audio connecting cable (1)

*Design and specifications are subject to change without notice.*

FM/AM DIGITAL RADIO

SONY®

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2007E04-1

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Personal Audio Division

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## SAFETY CHECK-OUT

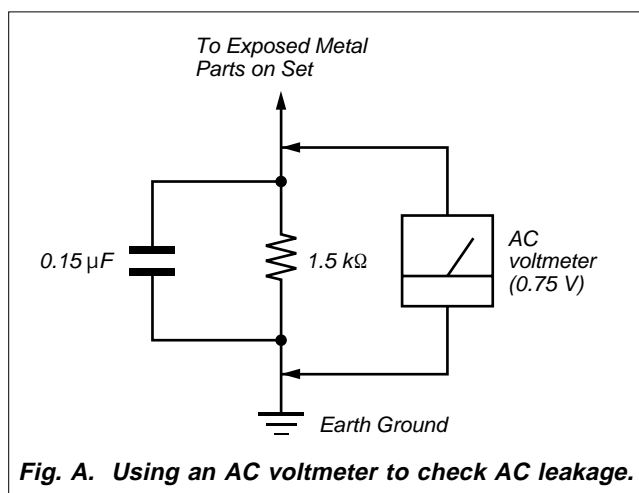
After correcting the original service problem, perform the following safety check before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.).

Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



**Fig. A. Using an AC voltmeter to check AC leakage.**

## SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

## SERVICE NOTES

### Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

### ● UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



### : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350°C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity

Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

- Usable with ordinary solder

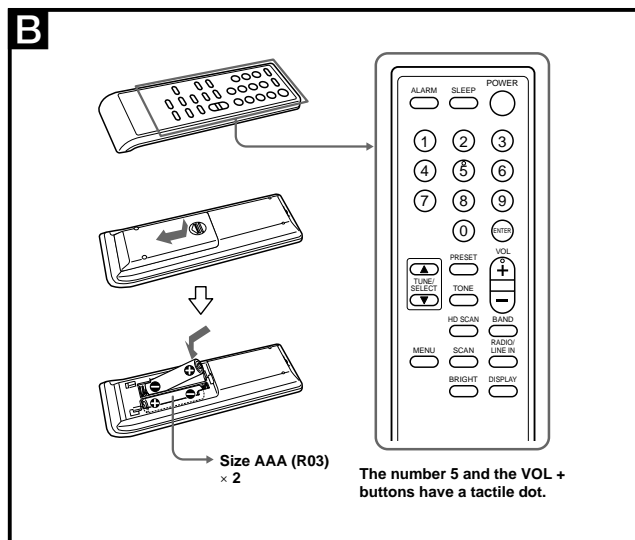
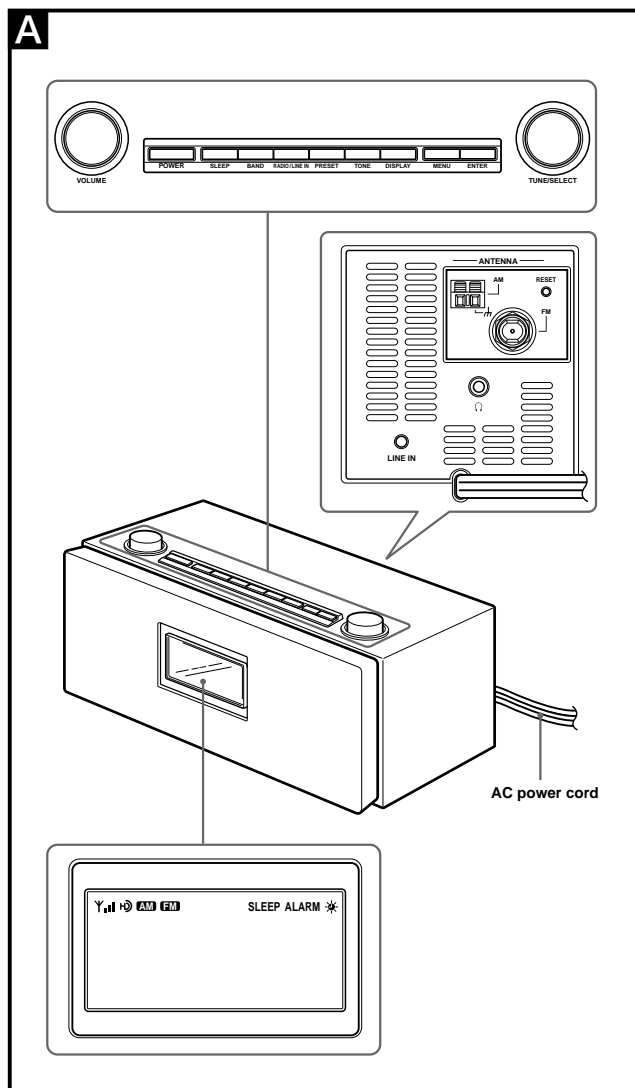
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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# SECTION 1 GENERAL

This section is extracted from instruction manual.



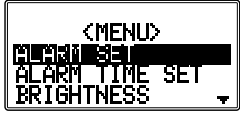
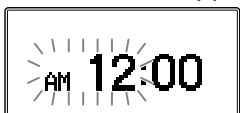
**Preparing the remote commander**  
Installing the batteries into the remote commander (See Fig. B)  
Insert two size AAA (R03) batteries (not supplied).

**When to replace the batteries**  
With normal use, the batteries should last for about six months. When the remote commander no longer operates the unit, replace all the batteries with new ones.

**Notes**

- Do not charge dry batteries.
- When you are not going to use the remote commander for a long time, remove the batteries to avoid any damage caused by leakage and corrosion.

## Setting the clock

- 1 Plug in the unit.  
The display will flash "AM 12:00."
  - 2 Press MENU to show the menu display.
- 
- 3 Turn TUNE/SELECT clockwise to select "TIME SET," then press ENTER.  
The hour will start to flash in the display.
- 
- 4 Turn TUNE/SELECT clockwise or counterclockwise until current hour appears in the display, then press ENTER.  
The hour is set and the minutes start to flash.
  - 5 Repeat step 4 to set the minute.

**Note**  
If you do not set the menu within 65 seconds, the setting mode is canceled.

## To change the display to the daylight saving time (summer time) indication

- 1 Press MENU to show the menu display.
- 2 Turn TUNE/SELECT clockwise or counterclockwise to select "DST," then press ENTER.
- 3 Turn TUNE/SELECT counterclockwise to select "ON," then press ENTER.  
"\*" appears and the time indication changes to summer time.

To deactivate the DST function, select "OFF" in step 3.

## Playing the radio

### —Manual tuning

- 1 Press POWER to turn on the radio.  
If "LINE IN" is displayed, press RADIO/LINE IN so that the band (AM or FM) appears.
- 2 Press BAND to select the band AM or FM.
- 3 Turn TUNE/SELECT clockwise or counterclockwise to tune in to a desired frequency.
- 4 Adjust the volume using VOLUME.

**Tip**  
To attenuate the volume, turn VOLUME counterclockwise quickly.

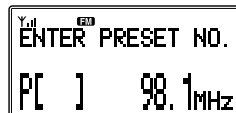
**Note**  
The frequency cannot be input with the number buttons of the remote commander.

### —Preset tuning

You can preset 20 stations each for AM and FM.

#### Presetting a station

- 1 Follow steps 1 to 3 in "Manual tuning" to tune the frequency you wish to preset.
- 2 Press and hold PRESET for a few seconds. You will hear a beep.



- 3 Turn TUNE/SELECT clockwise or counterclockwise to select the preset number, then press ENTER.  
The frequency is stored in the selected preset number and you will hear a beep.

To preset another station, repeat these steps.

**Note**  
If you try to store another station in the same preset number, the previously stored station will be replaced.

#### Tuning in to a station

- 1 Press POWER to turn on the radio.
  - 2 Press BAND to select the band AM or FM.
  - 3 Press PRESET.
- The preset number appears in upper left in the display.
- 4 Turn TUNE/SELECT clockwise or counterclockwise to select the preset number.
  - 5 Adjust the volume using VOLUME.

**Tip**  
The preset can be selected by pressing the number button of the remote commander. Press ENTER after the preset number is selected.

### —Scan tuning

The unit will automatically scan the selected band. In HD scan, HD Radio stations are scanned.

- 1 Press POWER to turn on the radio.
- 2 Press BAND to select the band AM or FM.
- 3 Press MENU to show the menu display.
- 4 Turn TUNE/SELECT clockwise or counterclockwise to select "SCAN" or "HD SCAN," then press ENTER.  
Scanning of the selected band starts. When a station is received, scanning pauses for 3 seconds and then continues.
- 5 When the unit tunes in to the desired station, do any of the following operations to stop scanning.
  - Press ENTER on the unit or remote commander.
  - Press SCAN or HD SCAN on the remote commander.
- 6 If necessary, turn TUNE/SELECT clockwise or counterclockwise to tune in to the station more precisely.
- 7 Adjust the volume using VOLUME.

**Tip**  
You can scan a station directly by pressing SCAN or HD SCAN on the remote commander.

### To listen with the headphones

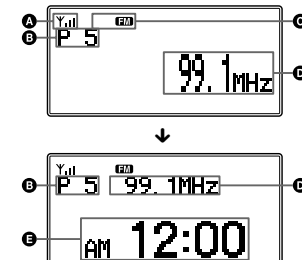
You can enjoy the radio and external equipment connected to the line in by the headphones (not supplied). Connect the headphones (not supplied) to the Ⓛ (headphone) jack. The speaker is deactivated when the headphones are connected.

## Changing the display mode and settings

### To change the display mode

Press DISPLAY.  
The display changes as follows:

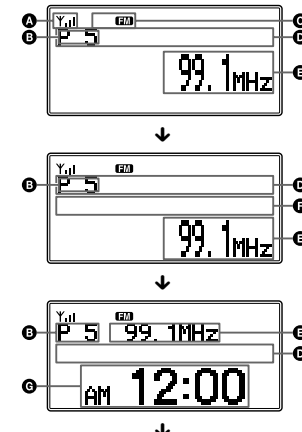
#### When an analog radio station is received

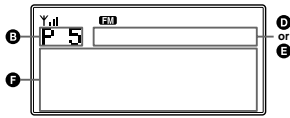


- A Field strength level indicator
- B Preset number\*
- C Band
- D Frequency
- E Current time

\* When you tune in a station by selecting a preset number.

#### When an analog FM broadcast that supports RBDS (Radio Broadcast Data System) is received



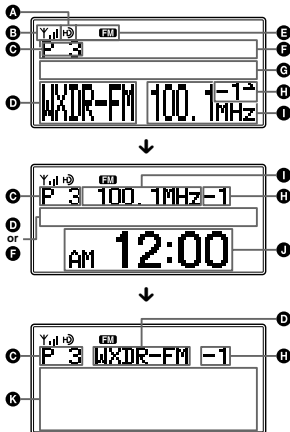


- ① Field strength level indicator
- ② Preset number\*
- ③ Band
- ④ Station name
- ⑤ Name of station currently tuned in.
- ⑥ Frequency
- ⑦ Text information
- ⑧ Current time

\* When you tune in a station by selecting a preset number.

**Note**  
The display item differs depending on the content of a broadcast or the station.

#### When an HD Radio station is received



If you press DISPLAY for 2 seconds while the display above appears, the beep is heard and the scroll speed of the display item becomes slow. To return to normal scroll speed, press DISPLAY again for 2 seconds.

- ① HD indicator
  - Lights: HD Radio reception level is sufficient (indicator flashes momentarily, and then stays lit).  
The sound changes from analog to digital.
  - Flashes: HD Radio reception level is too low.  
The sound stays analog.
  - If a HD Radio station signal is very weak, the indicator will not flash.
  - ② Field strength level indicator
  - ③ Preset number\*
  - ④ Current station's call letters
  - ⑤ Band
  - ⑥ Station name and information
  - ⑦ Title/Artist name
  - ⑧ Sub channel (FM only)
- Appears when HD Radio broadcasts multiple program.  
Turn TUNE/SELECT clockwise or counterclockwise to select a sub channel.
- ① Frequency
  - ② Current time
  - ③ Text information

\* When you tune in a station by selecting a preset number.

**Note**  
The display item differs depending on the content of a broadcast or the station.

#### To change the display settings (BRIGHTNESS/ CONTRAST)

- 1 Press MENU to show the menu display.
- 2 Turn TUNE/SELECT clockwise or counterclockwise to select "BRIGHTNESS" or "CONTRAST," then press ENTER.
- 3 Turn TUNE/SELECT clockwise or counterclockwise to select the setting or to adjust the level, then press ENTER.


**BRIGHTNESS:**  
The brightness of the display is selected from "HIGH," "MIDDLE" or "LOW."

**CONTRAST:**  
The contrast of the display can be adjusted by 11 levels.

**Note**  
If you do not set the menu within 10 seconds, the setting mode is canceled.

**Tip**  
You can adjust "BRIGHTNESS" directly by pressing BRIGHT on the remote commander.

## Adjusting the tone

- 1 Press POWER to turn on the radio.
  - 2 Press TONE to show the tone setting display.
- 
- 3 Turn TUNE/SELECT clockwise or counterclockwise to set "TREBLE," then press TONE.
  - 4 Turn TUNE/SELECT clockwise or counterclockwise to set "BASS," then press TONE.
  - 5 Turn TUNE/SELECT clockwise or counterclockwise to set "SURROUND," then press TONE.

**Tip**  
The adjustable range of "TREBLE" and "BASS" is from -6 to +6. "SURROUND" switches "ON" or "OFF."

## Setting the alarm

You can set the unit to turn on automatically at a preset time. The alarm can be set, even if the unit is off. To adjust the hour and minute, see "Setting the clock."

- To set the alarm time
- 1 Press MENU to show the menu display.
  - 2 Turn TUNE/SELECT clockwise or counterclockwise to select "ALARM TIME SET," then press ENTER. The hour sign starts flashing.

**Example of display when unit is off**

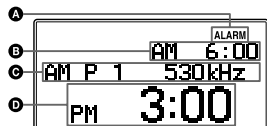


- 3 Turn TUNE/SELECT clockwise or counterclockwise to set the hour, then press ENTER. The minute sign starts flashing.
- 4 Turn TUNE/SELECT clockwise or counterclockwise to set the minutes, then press ENTER. The source sign starts flashing.
- 5 Turn TUNE/SELECT clockwise or counterclockwise to select the source from "RADIO AM," "RADIO FM," "LINE IN" or "BUZZER," then press ENTER. If you select "RADIO AM," "RADIO FM" or "LINE IN" continue the following steps.
- 6 Turn TUNE/SELECT clockwise or counterclockwise to select the preset number, then press ENTER. If you selected "LINE IN" in step 5, this step is not necessary.
- 7 Turn TUNE/SELECT clockwise or counterclockwise to set the volume, then press ENTER.

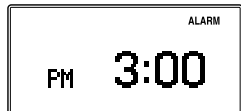
#### To set the alarm

- 1 Press MENU to show the menu display.
- 2 Turn TUNE/SELECT clockwise or counterclockwise to select "ALARM SET," then press ENTER.
- 3 Turn TUNE/SELECT counterclockwise to select "ON," then press ENTER. "ALARM" appears in the display.

**Example of display when unit is off**



If you press DISPLAY while the display above appears, the display changes to the following.



To return to the previous display, press DISPLAY again.

- ① ALARM indicator
- ② Alarm setting time
- ③ Alarm setting (Source, Frequency, etc.)
- ④ Current time

To deactivate the alarm function, turn TUNE/SELECT clockwise to select "OFF" in step 3.

#### To stop the alarm

Press POWER on the unit or remote commander.

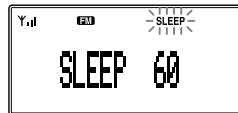
- Tips**
- To enter "ALARM TIME SET" mode directly, press and hold ALARM on the remote commander for 2 seconds.
  - You can activate or deactivate the alarm function directly by pressing ALARM on the remote commander.

- Notes**
- If you do not set the menu within 10 seconds, the setting mode is canceled.
  - If you do not operate the unit for 60 minutes after alarm sounds, the power is turned off.
  - If you select "LINE IN" source in "ALARM TIME SET," start playback on the external equipment. You cannot control the external equipment from this unit.

## Setting the sleep timer

You can enjoy falling asleep to the radio using the built-in sleep timer that turns off the radio automatically after a preset duration.

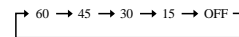
- 1 Press SLEEP. "SLEEP" and the digits for the sleep timer duration appear.



If you press SLEEP while the unit is turned off, the unit is turned on.

- 2 Press SLEEP repeatedly to select the desired sleep timer setting.

Each press changes the setting time as follows:



A beep sounds when the display returns to "SLEEP 60."

After about 4 seconds, "SLEEP" lights in the display when the duration time is set.

The unit automatically turns off when the duration time is passed.

#### To change the sleep timer setting

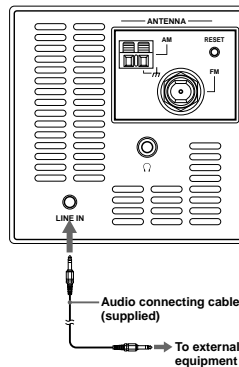
You can press SLEEP repeatedly to select the desired sleep timer setting even after the sleep timer has been activated.

#### To deactivate the sleep timer

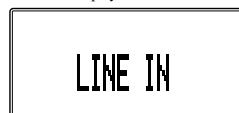
Press POWER to turn off the unit before the setting time has elapsed, or press SLEEP repeatedly to set the sleep timer to "SLEEP OFF" in step 2.

## Listening to the external equipment

- 1 Connect the LINE IN jack of the unit to the line out jack or headphone jack of the external equipment using the audio connecting cable (supplied).



- 2 Press POWER to turn on the radio.
- 3 Press RADIO/LINE IN to select "LINE IN" in the display.



- 4 Play the equipment connected to the LINE IN jack.
- 5 Adjust the volume using VOLUME.

**Tip**  
To display the current time, press DISPLAY.



#### To return to the radio

Press RADIO/LINE IN. The band (AM or FM) is shown in the display.

- Notes**
- Refer also to the connected equipment's manual.
  - The supplied audio connecting cable may not be used with some external equipment. In this case, use a cord suitable for the external equipment you are using.
  - When you listen to the radio with external equipment connected, turn off the connected equipment because noise may be caused. If noise continues, even when the equipment is turned off, disconnect and place the external equipment away from the unit.

## Resetting the unit

The RESET button is located on the rear of the unit. Press this button with a pointed object if the radio fails to function properly. The clock settings and stations you have preset, etc., will revert to the factory preset.

## Using the remote commander

Buttons shared on both the remote commander and the unit control the same functions.

#### VOL +/- buttons

To adjust the volume. Press and hold the VOL - button for 2.5 seconds, the volume becomes minimized.

#### ALARM button

Press to set the alarm to "ON" or "OFF." Press and hold for 2 seconds to enter "ALARM TIME SET."

#### HD SCAN button

The selected band is scanned, and receivable HD Radio stations are received for 3 seconds in order of frequency.

#### SCAN button

The selected band is scanned, and receivable radio stations are received for 3 seconds in order of frequency.

#### BRIGHT button

To adjust the brightness of the display.

#### Number buttons

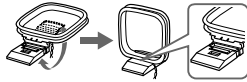
To select a preset number (1 to 20). Press ENTER after the preset number is selected. If you input the number 0 or more than 21 and press ENTER, "ERROR" appears in the display.

## Connecting the antenna

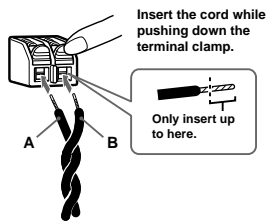
### To connect the AM loop antenna

The shape and the length of the antenna is designed to receive AM signals. Do not dismantle or roll up the antenna.

- 1 Remove only the loop part from the plastic stand.
- 2 Set up the AM loop antenna.



- 3 Connect the cords to the AM antenna terminals.  
Cord (A) or cord (B) can be connected to either terminal.



- 4 Make sure the AM loop antenna is connected firmly by pulling softly.

### Adjusting the AM loop antenna

Find a place and an orientation that provide good reception.

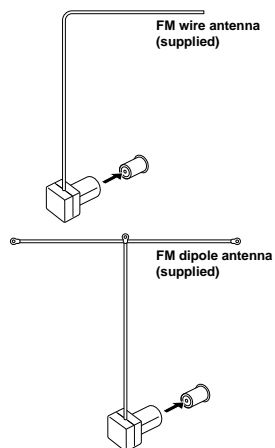
- Do not place the AM loop antenna near the unit or other AV equipment, as noise may result.
- If you use an external polarized AM antenna, be sure to connect the ground cord to the  $\perp$  terminal. The supplied AM antenna cord has no polarity.

#### Tip

Adjust the direction of the AM loop antenna for best AM broadcast sound.

### To connect the FM antenna

This unit comes supplied with an FM wire antenna and FM dipole antenna. Connect an antenna that provides good reception to the FM antenna terminal.



### Adjusting the FM wire antenna

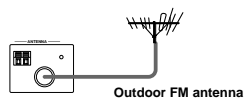
Be sure to fully extend the FM wire antenna, and keep it as horizontal or vertical as possible.

### Adjusting the FM dipole antenna

Be sure to fully extend the FM dipole antenna. Attach the antenna in the shape of a T to a high position on a wall away from this unit.

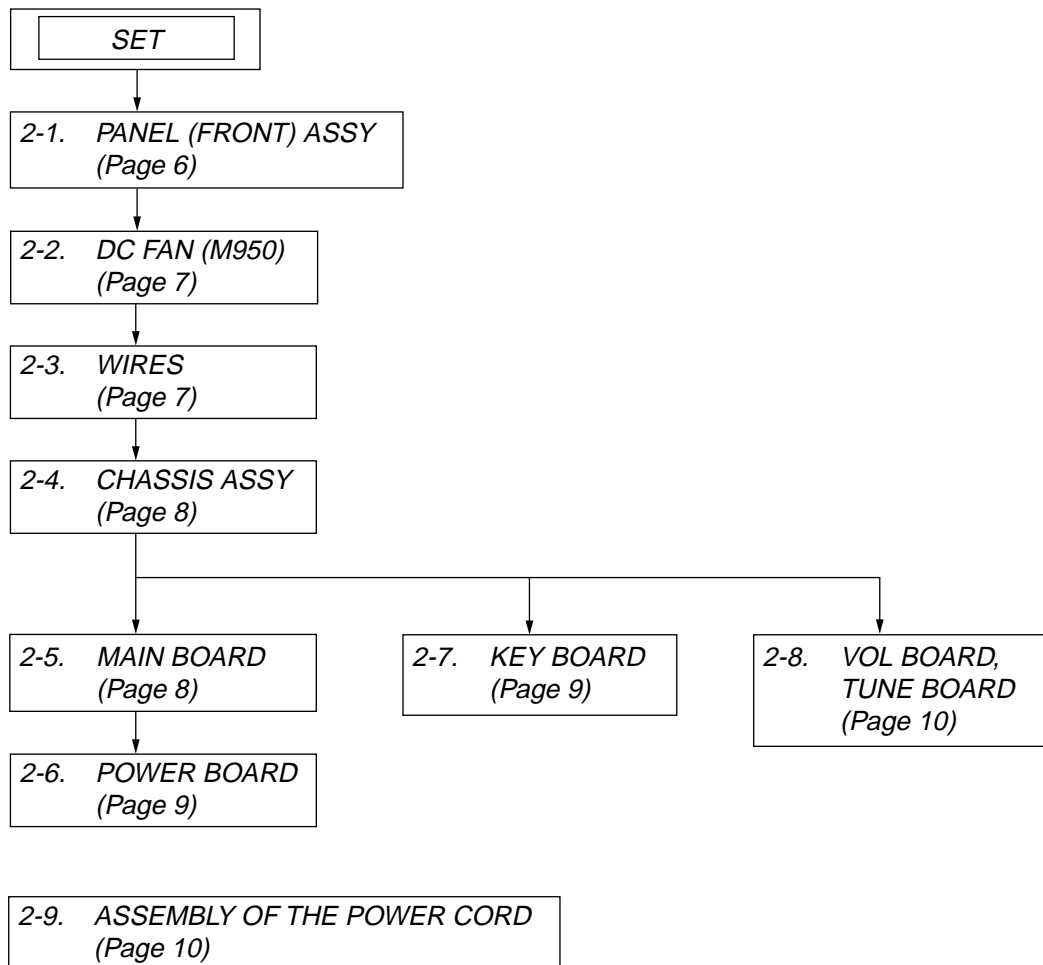
#### Tip

If you have poor FM reception, use a 75  $\Omega$  coaxial cable (not supplied) to connect the unit to an outdoor FM antenna as shown below.



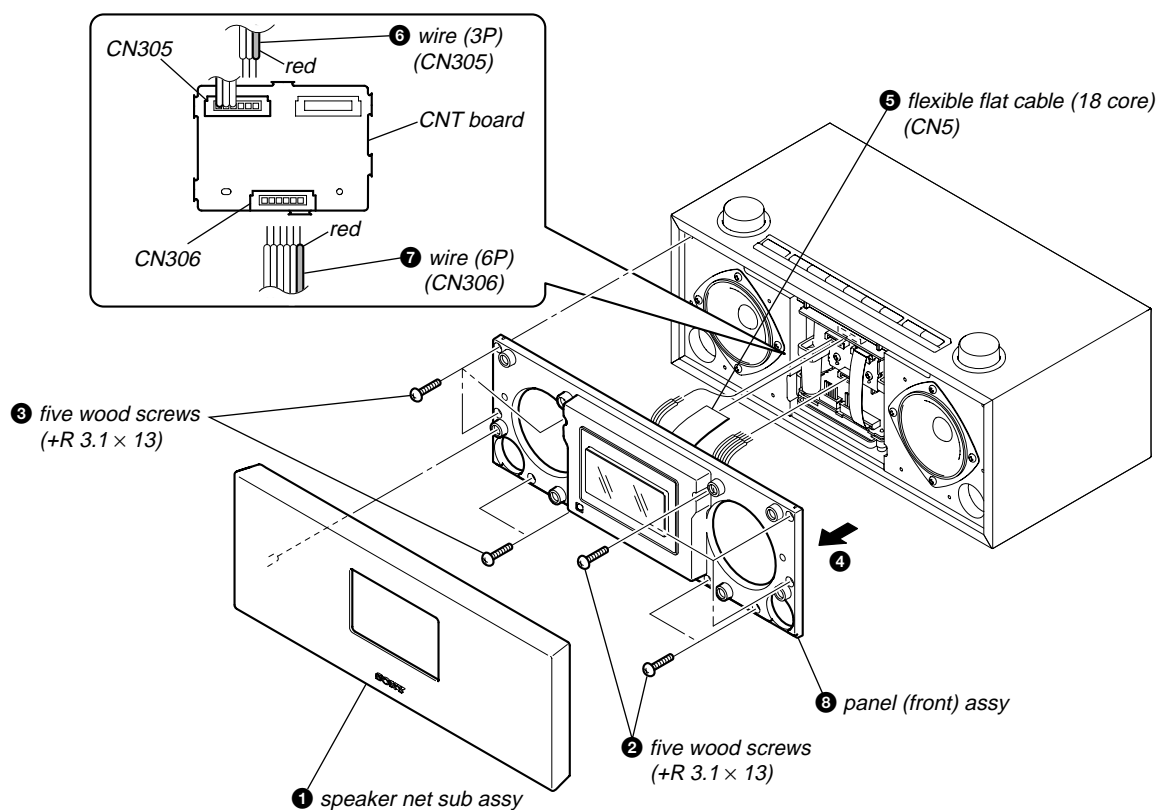
## SECTION 2 DISASSEMBLY

**Note :** This set can be disassemble according to the following sequence.

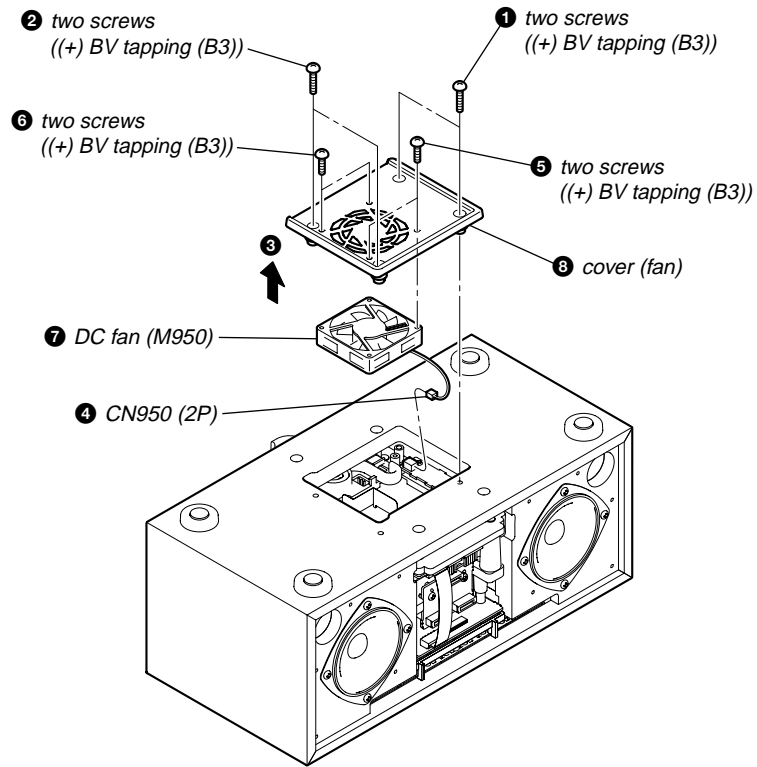


**Note :** Follow the disassembly procedure in the numerical order given.

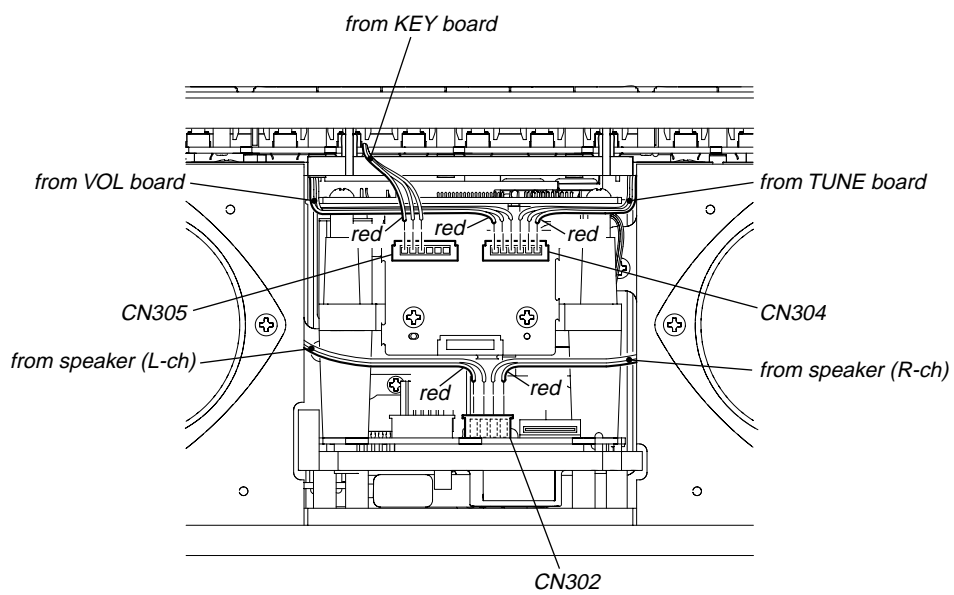
### 2-1. PANEL (FRONT) ASSY



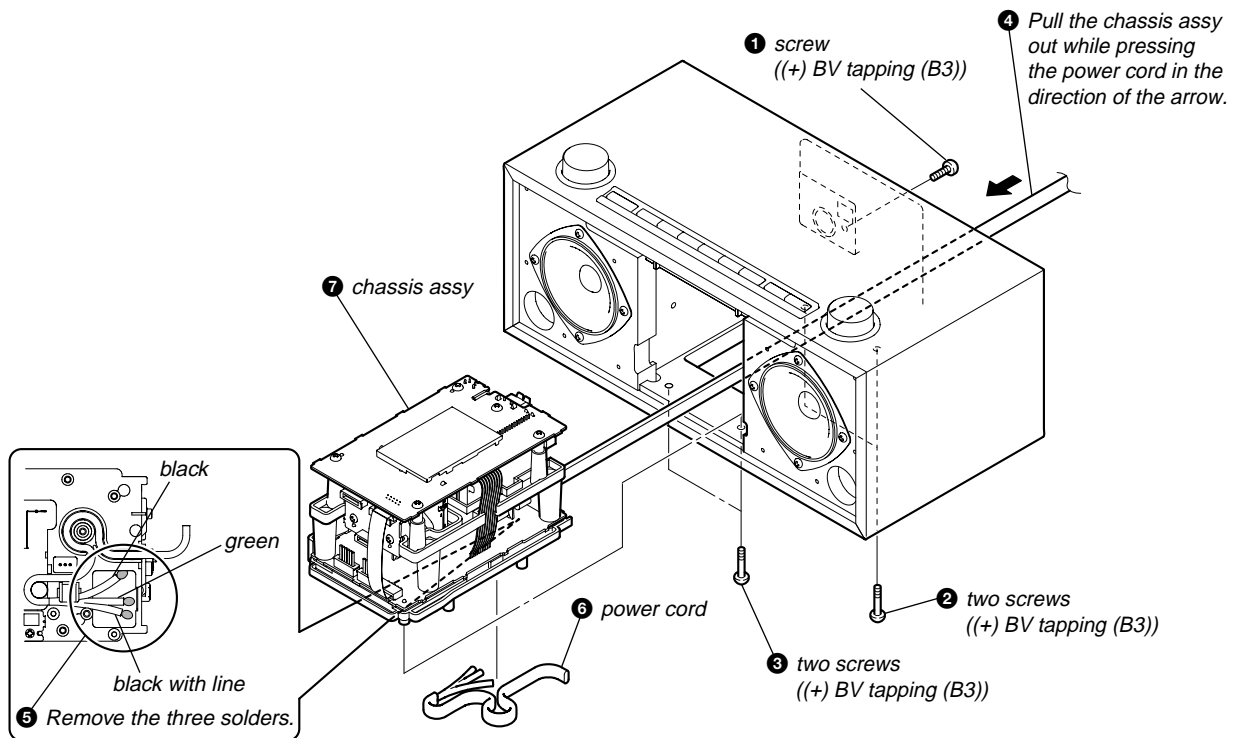
2-2. DC FAN (M950)



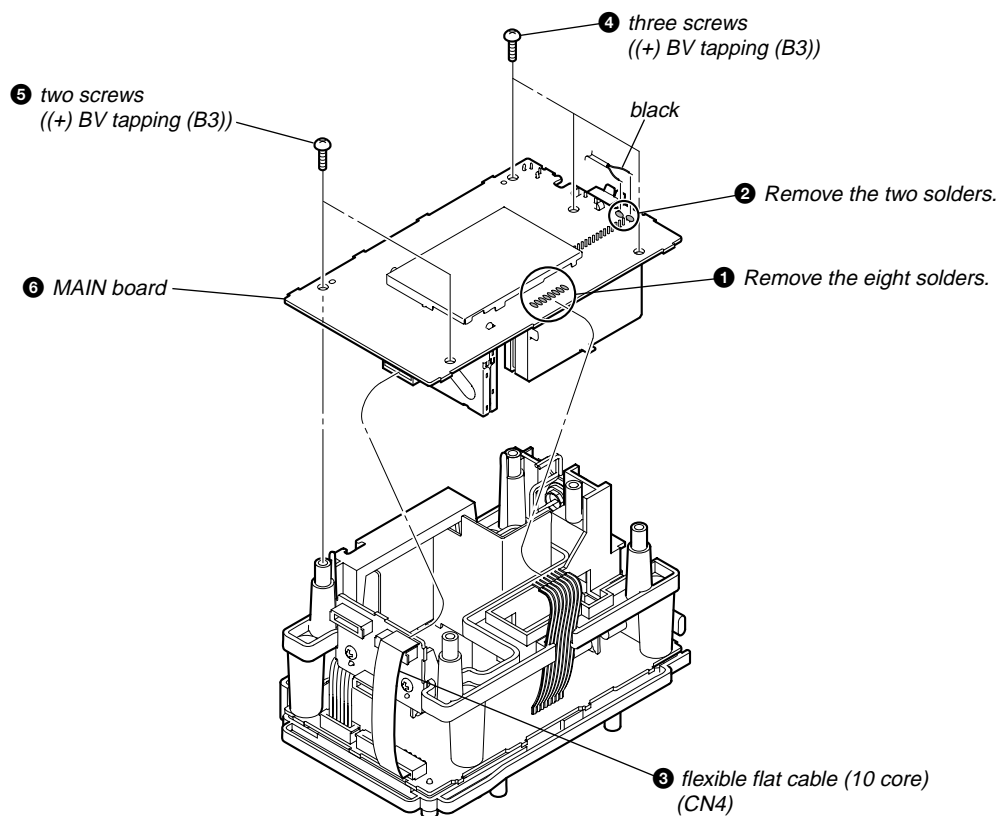
2-3. WIRES



## 2-4. CHASSIS ASSY

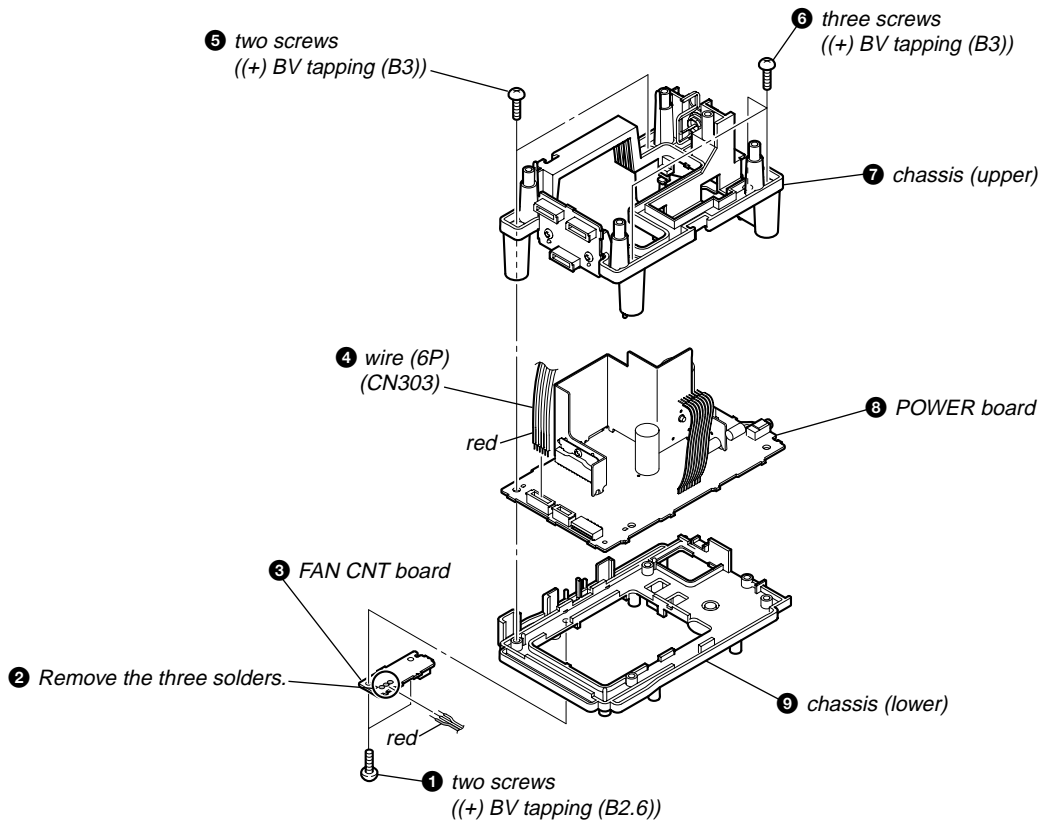


## 2-5. MAIN BOARD

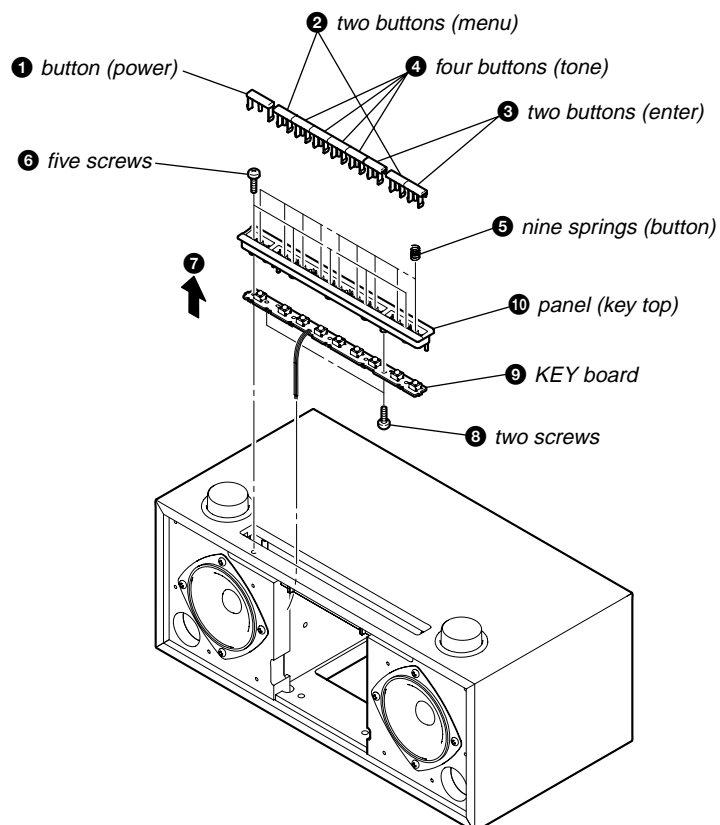




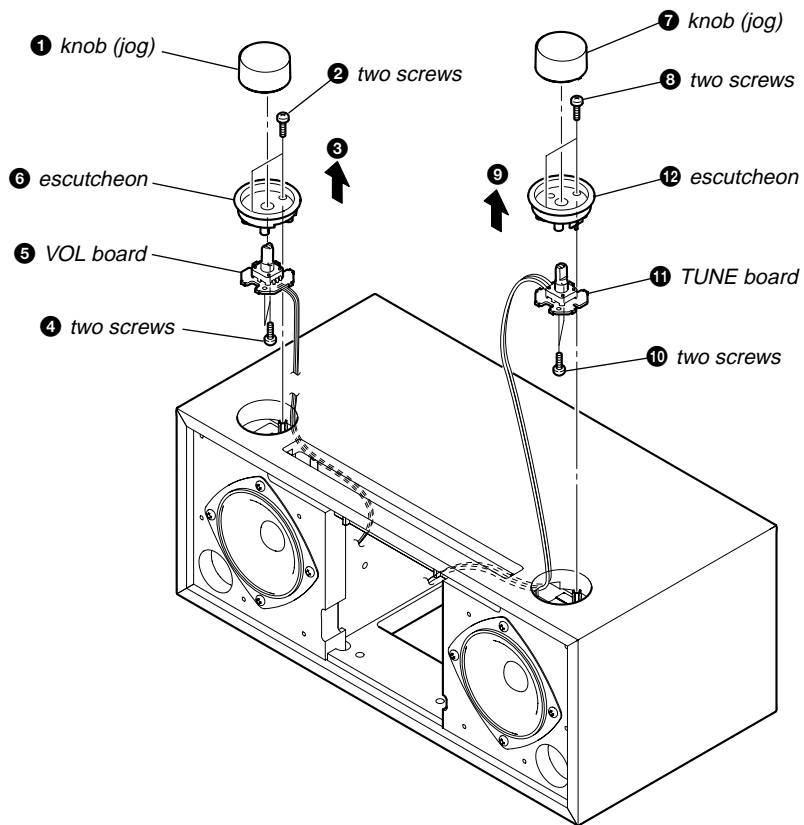
2-6. POWER BOARD



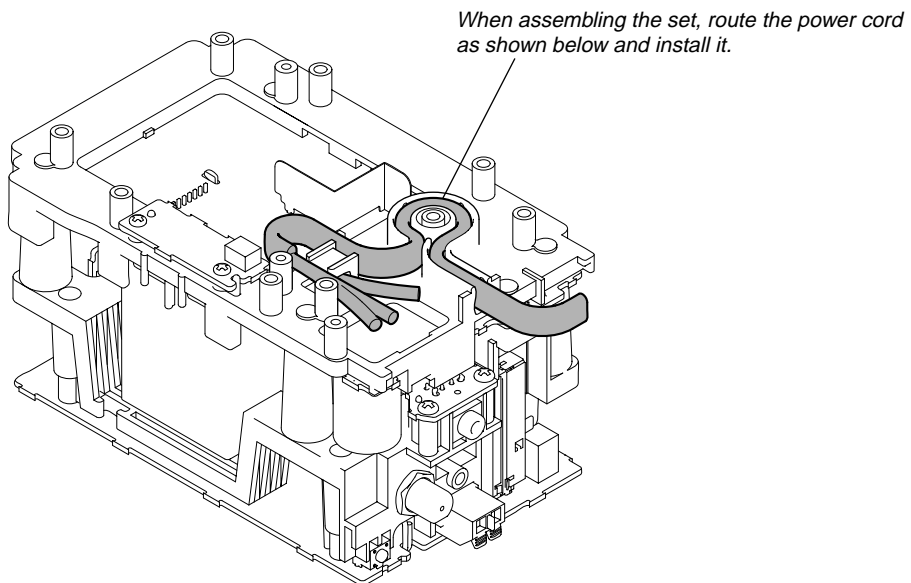
2-7. KEY BOARD



## 2-8. VOL BOARD, TUNE BOARD

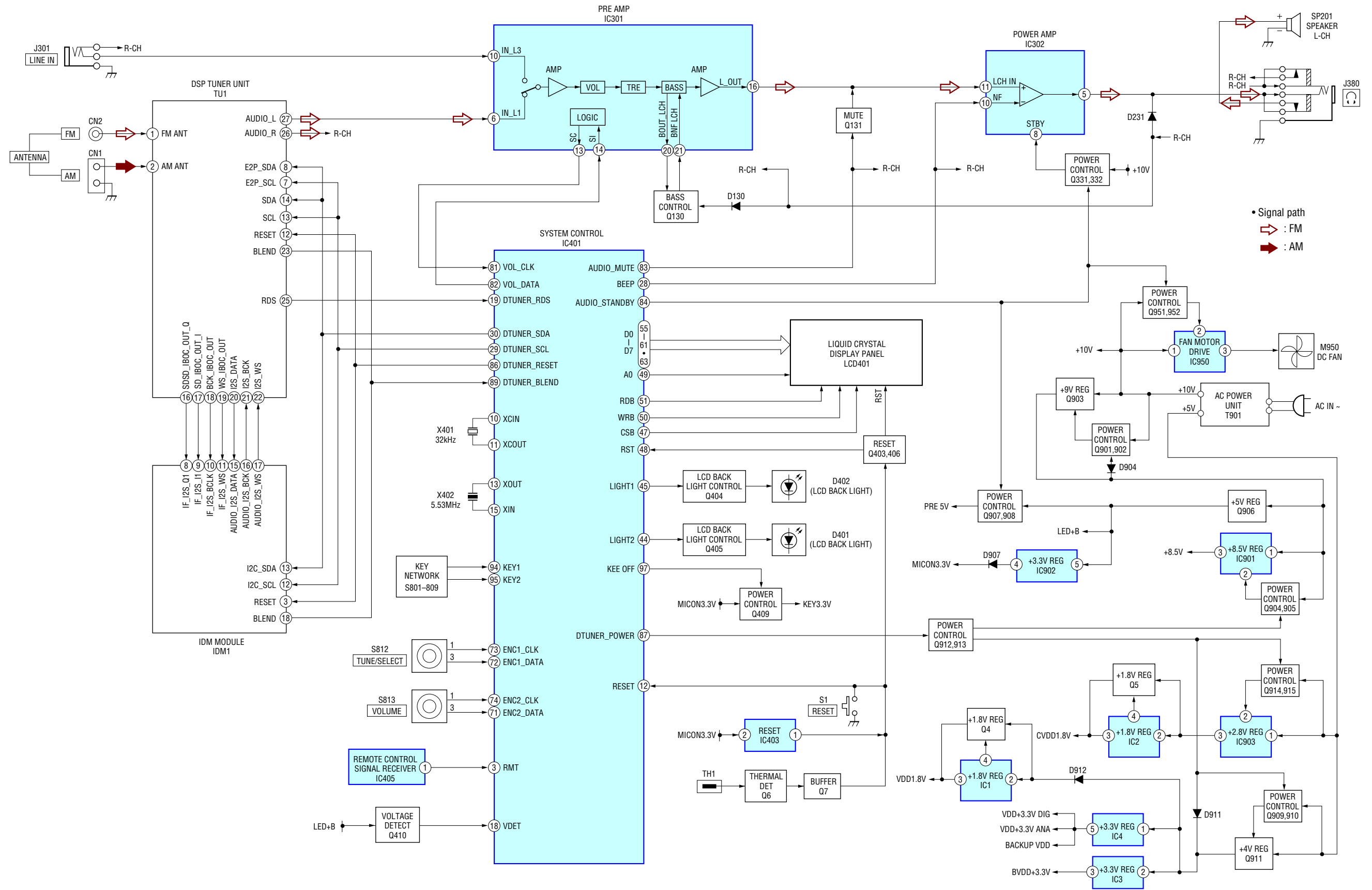


## 2-9. ASSEMBLY OF THE POWER CORD

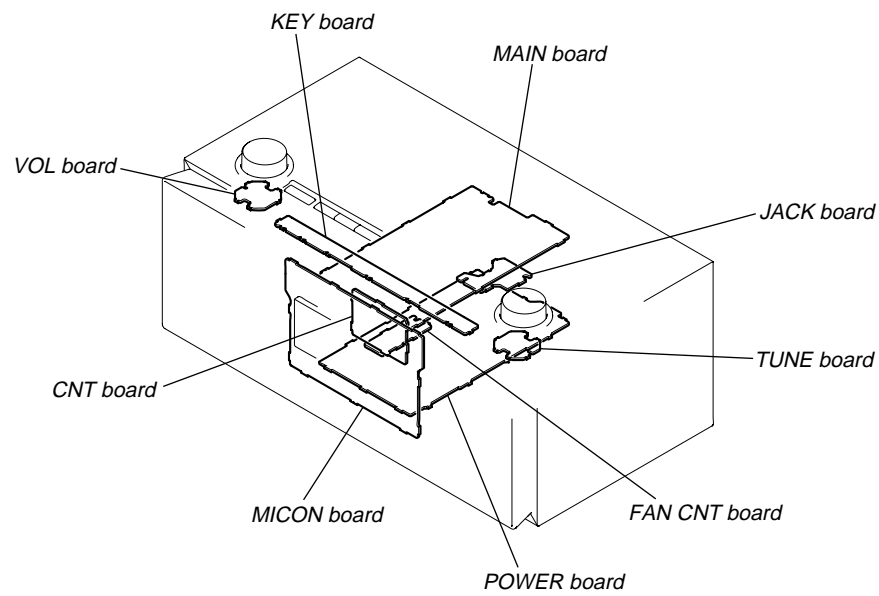


### SECTION 3 DIAGRAMS

#### 3-1. BLOCK DIAGRAM



• Circuit Boards Location






**THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.**  
(In addition to this, the necessary note is printed in each block.)




**for schematic diagrams:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}W$  or less unless otherwise specified.
- % : indicates tolerance.
- $\Delta$  : internal component.
- $\square$  : panel designation.

**for printed wiring boards:**

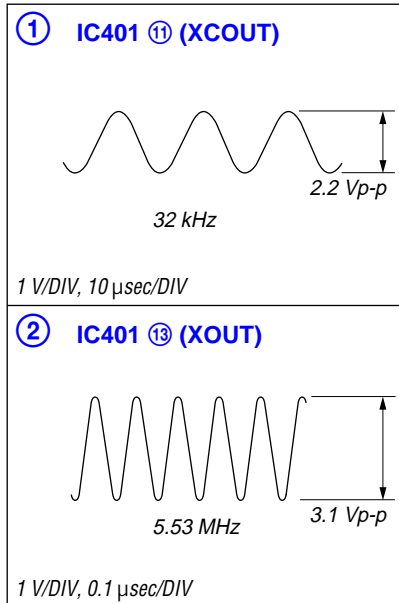
-  : parts extracted from the component side.
-  : parts extracted from the conductor side.
- $\Delta$  : internal component.
-  : Pattern from the side which enables seeing.

**Note:** The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

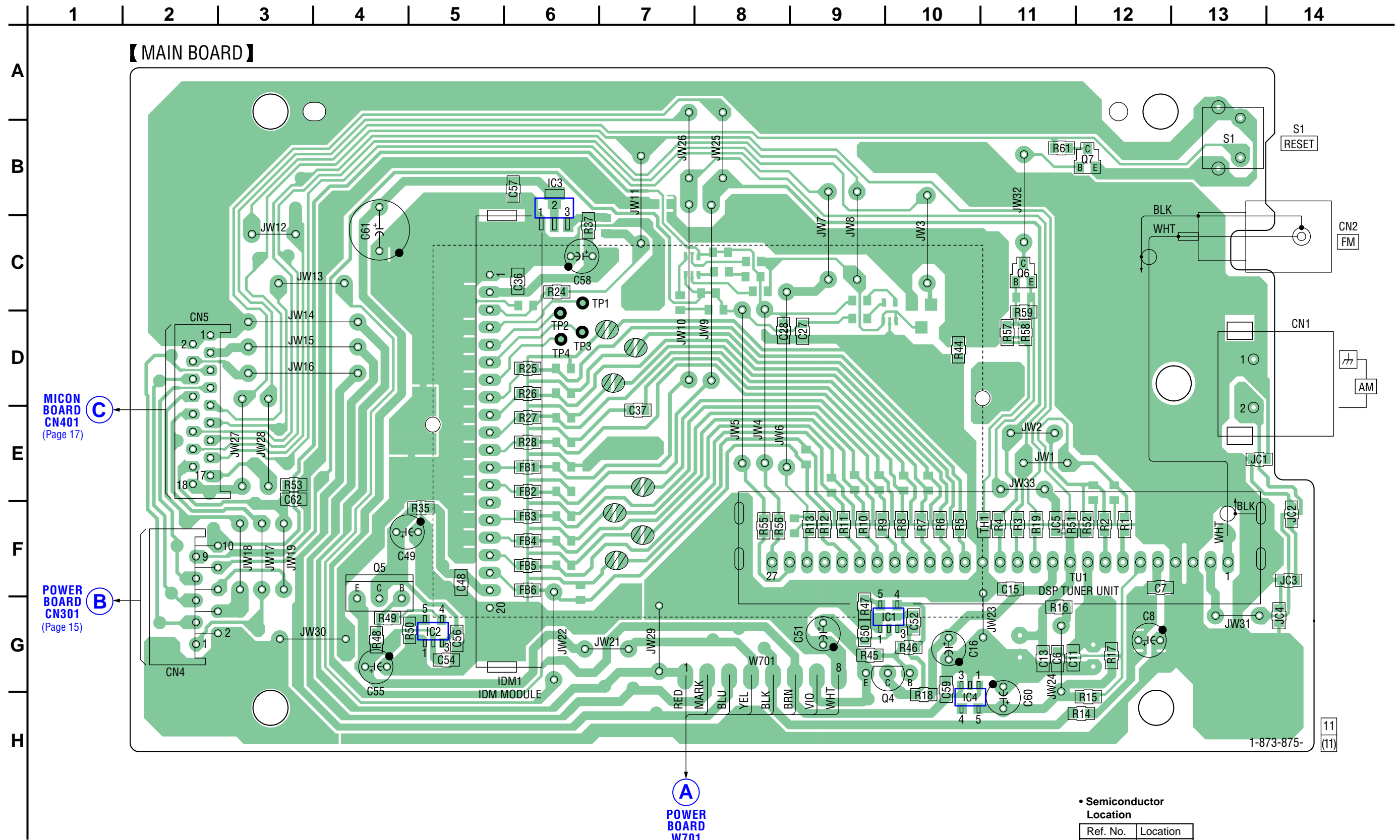
-  : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
no mark : FM1
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveform.
- Signal path.  
 : FM  
 : AM

• Waveforms

— MICON Board —



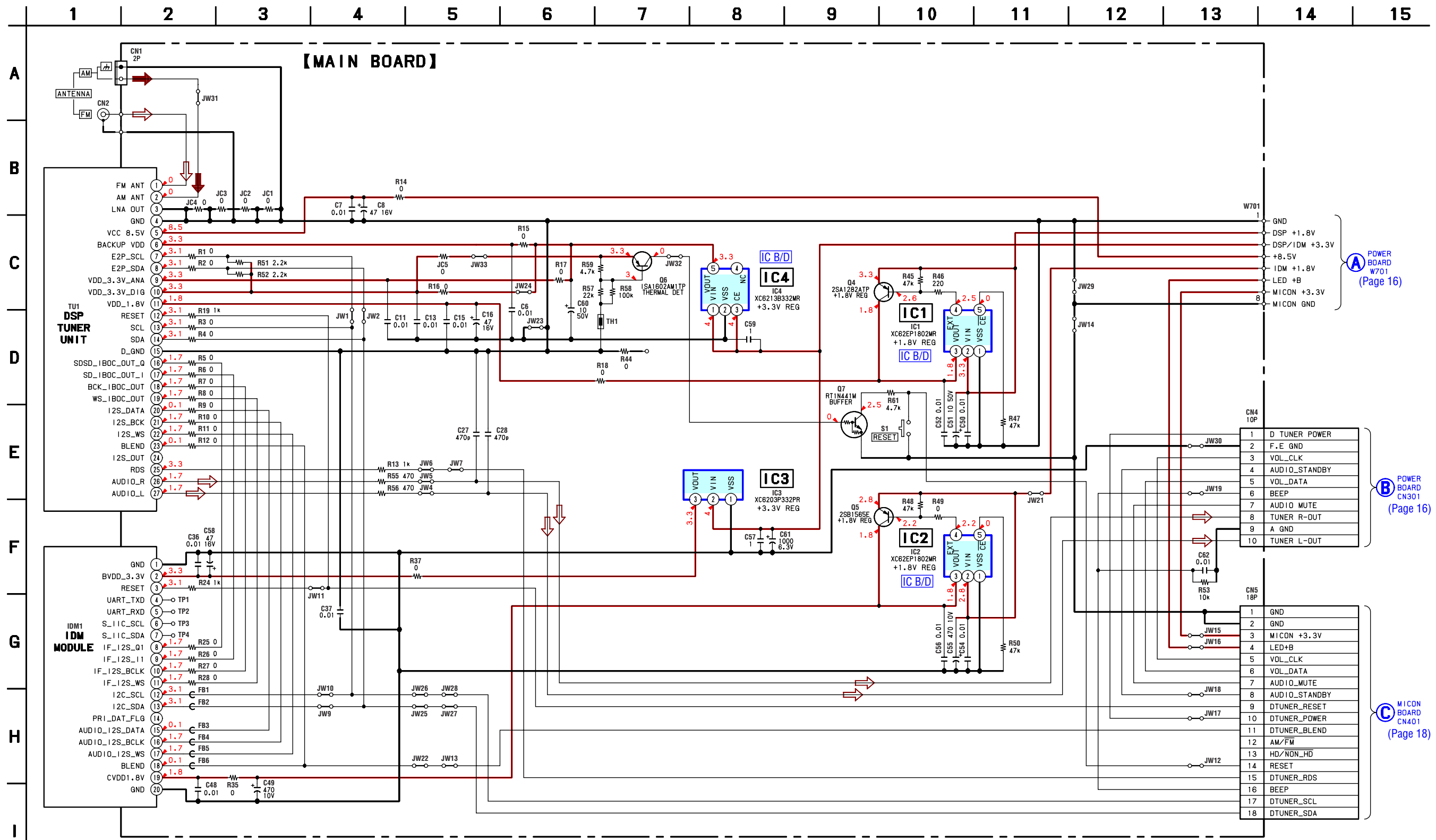
3-2. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 12 for Circuit Boards Location. **LF** : Uses unleaded solder.



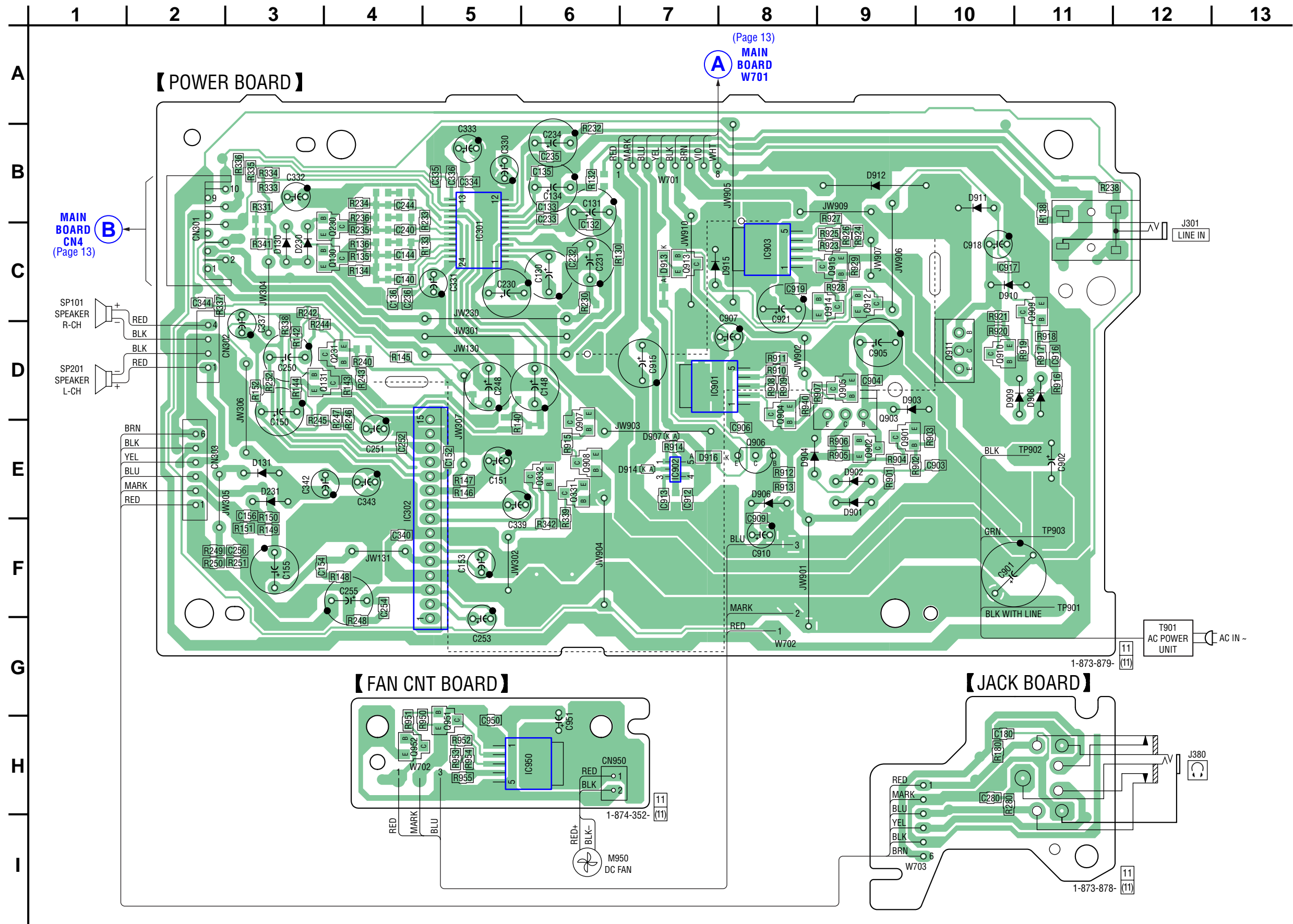
• Semiconductor Location

Ref. No.	Location
IC1	G-10
IC2	G-5
IC3	B-6
IC4	H-10
Q4	G-10
Q5	F-4
Q6	C-11
Q7	B-12

3-3. SCHEMATIC DIAGRAM — MAIN SECTION — • Refer to page 20 for IC Block Diagrams.



3-4. PRINTED WIRING BOARDS — POWER SECTION — • Refer to page 12 for Circuit Boards Location.  : Uses unleaded solder.

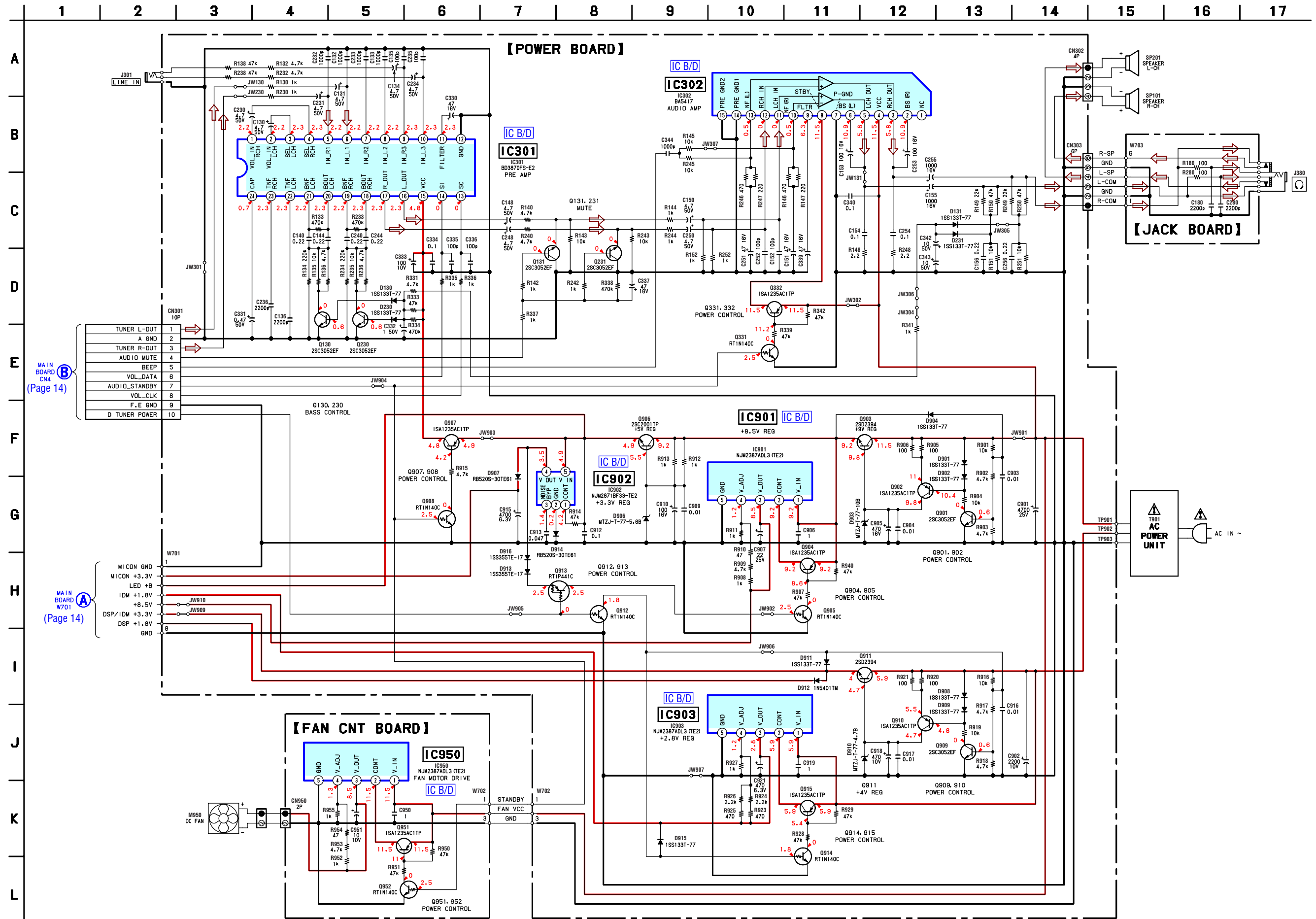


• Semiconductor Location

Ref. No.	Location
D130	C-3
D131	E-3
D230	C-3
D231	E-3
D901	E-9
D902	E-9
D903	D-9
D904	E-8
D906	E-8
D907	E-7
D908	D-11
D909	D-11
D910	C-10
D911	B-10
D912	B-9
D913	C-7
D914	E-7
D915	C-8
D916	E-7
IC301	C-5
IC302	E-5
IC901	D-7
IC902	E-7
IC903	C-8
IC950	H-6
Q130	C-4
Q131	D-3
Q230	C-4
Q231	D-4
Q331	E-6
Q332	E-6
Q901	E-9
Q902	E-9
Q903	D-9
Q904	D-8
Q905	D-9
Q906	E-8
Q907	E-6
Q908	E-6
Q909	C-11
Q910	D-10
Q911	D-10
Q912	C-9
Q913	C-7
Q914	C-9
Q915	C-9
Q951	H-5
Q952	H-4

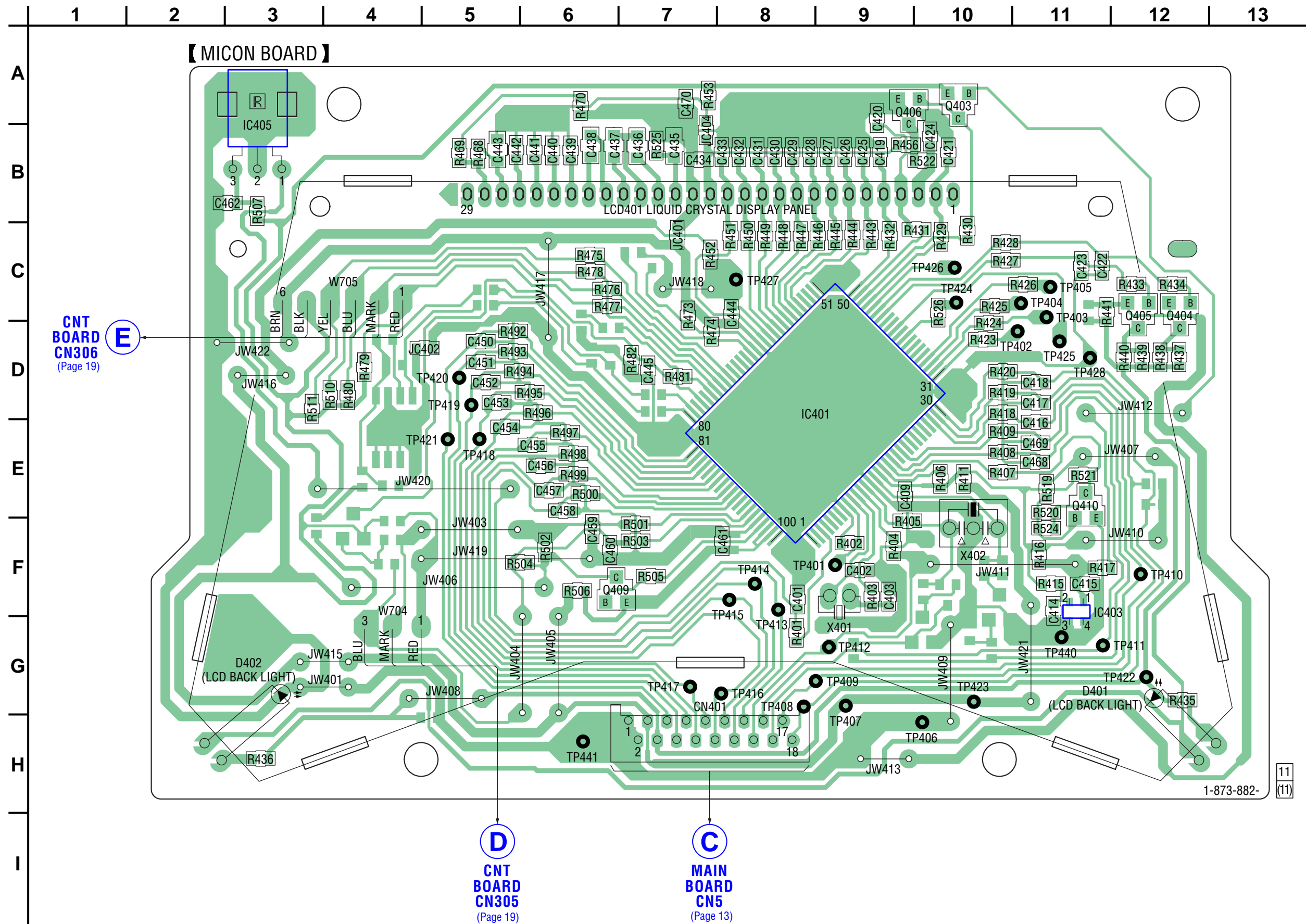


3-5. SCHEMATIC DIAGRAM — POWER SECTION — • Refer to page 20 for IC Block Diagrams.





3-6. PRINTED WIRING BOARD — MICON SECTION — • Refer to page 12 for Circuit Boards Location.  : Uses unleaded solder.

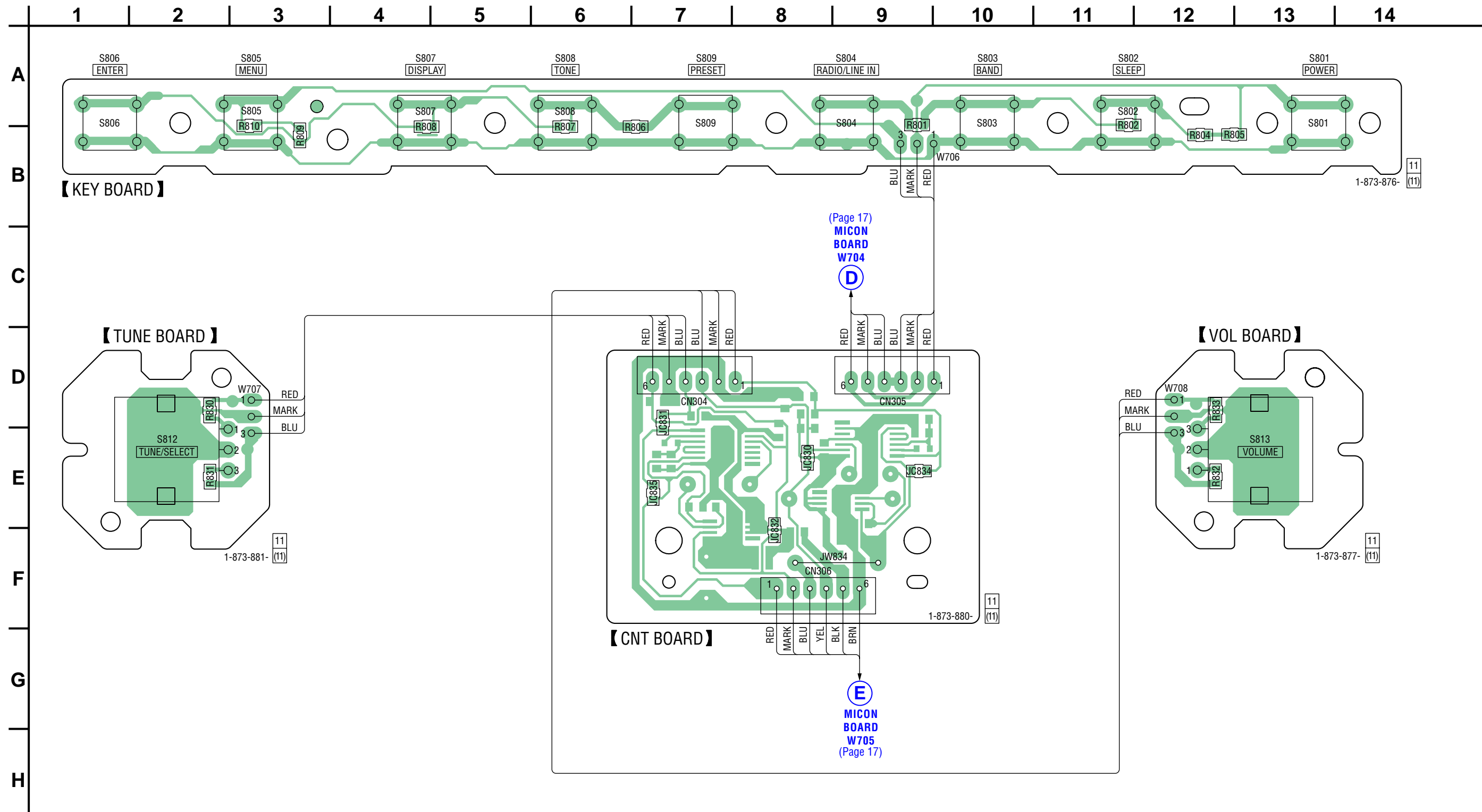


• Semiconductor Location

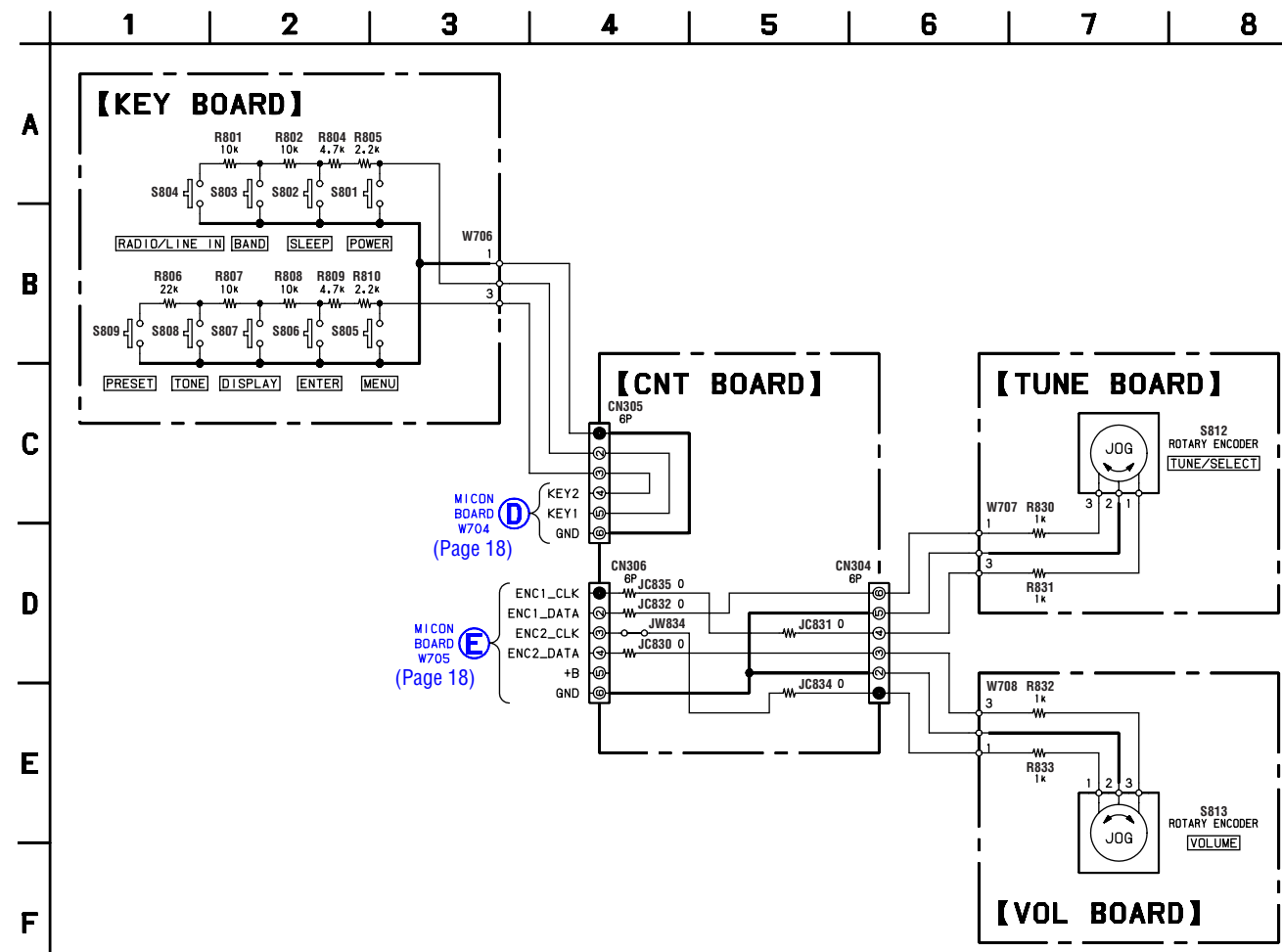
Ref. No.	Location
D401	G-12
D402	G-3
IC401	D-9
IC403	F-11
IC405	A-3
Q403	A-10
Q404	C-12
Q405	C-12
Q406	A-9
Q409	F-6
Q410	E-11



3-8. PRINTED WIRING BOARDS — KEY SECTION — • Refer to page 12 for Circuit Boards Location. **LF** : Uses unleaded solder.

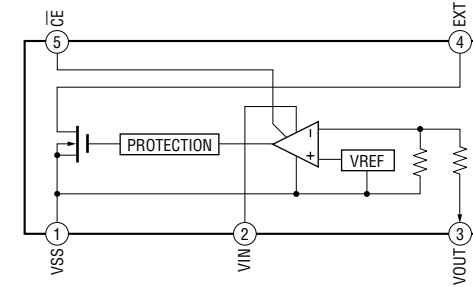


3-9. SCHEMATIC DIAGRAM — KEY SECTION —

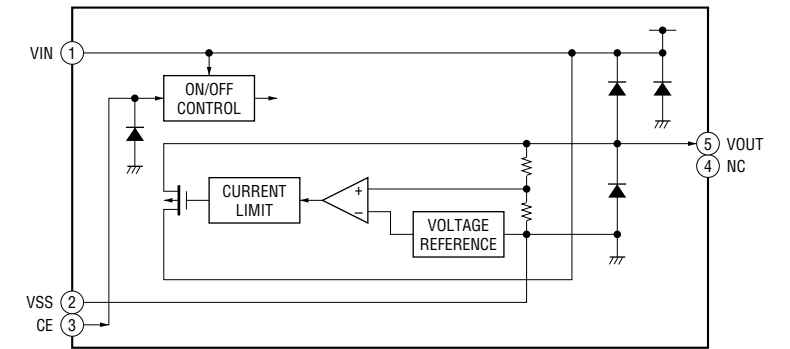


• IC Block Diagrams

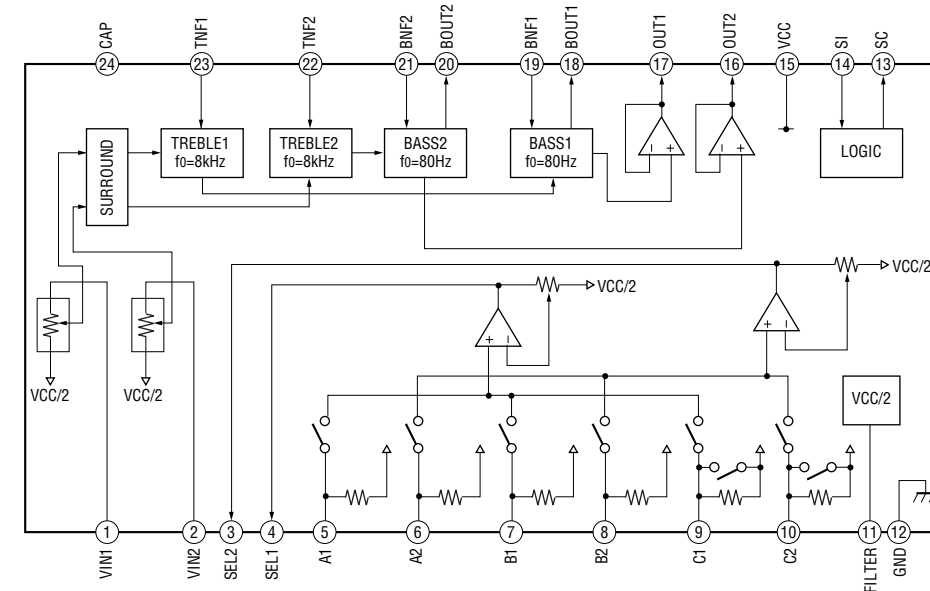
IC1 XC62EP1802MR (MAIN BOARD)  
IC2 XC62EP1802MR (MAIN BOARD)



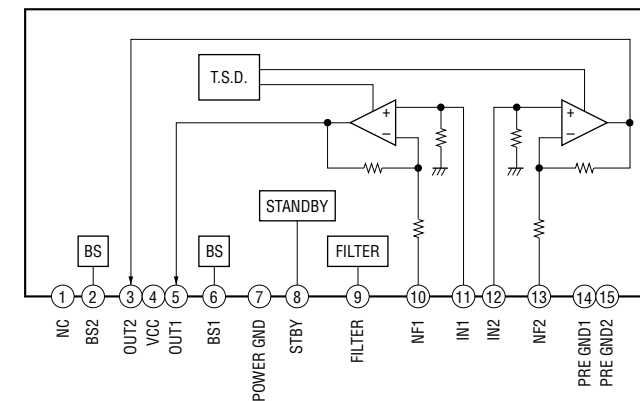
IC4 XC6213B332MR (MAIN BOARD)



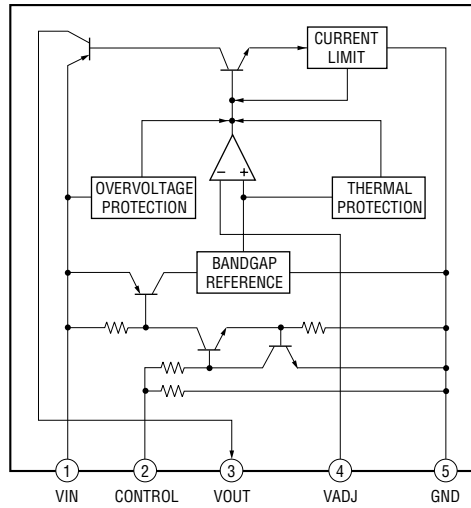
IC301 BD3870FS-E2 (POWER BOARD)



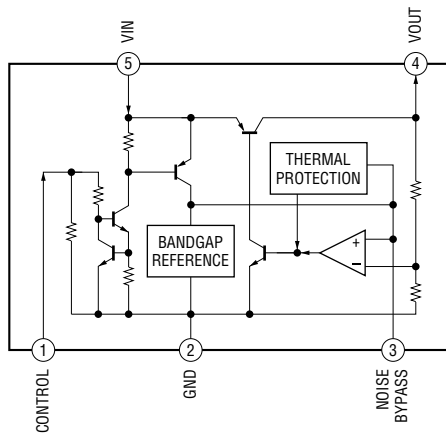
IC302 BA5417 (POWER BOARD)



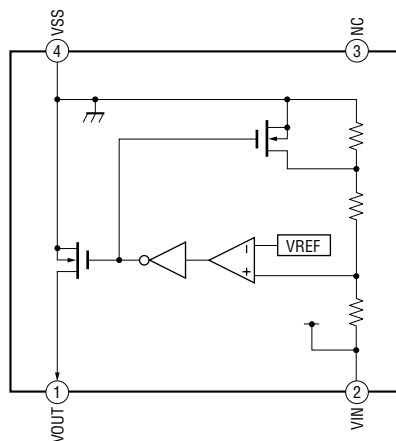
- IC901 NJM2387ADL3(TE2) (POWER BOARD)
- IC903 NJM2387ADL3(TE2) (POWER BOARD)
- IC950 NJM2387ADL3(TE2) (FAN CNT BOARD)



- IC902 NJM2871BF33-TE2 (POWER BOARD)



- IC403 XC61CN2702NR (MICON BOARD)



## • IC Pin Description

### IC401 M3062LFGPFP (SYSTEM CONTROL) (MICON BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	P9_6/NC	O	Fixed at L level (Not used)
2	P9_5/NC	O	Fixed at L level (Not used)
3	P9_4/RMT	I	Remote commander signal input
4	P9_3/NC	O	Fixed at L level (Not used)
5	P9_2/NC	O	Fixed at L level (Not used)
6	P9_1/NC	O	Fixed at L level (Not used)
7	P9_0/NC	O	Fixed at L level (Not used)
8	BYTE	I	Not used. (Connect to VSS)
9	CNVSS	I	Not used. (Fixed at L level)
10	XCIN	I	System sub clock signal input (32 kHz)
11	XCOU	O	System sub clock signal output (32 kHz)
12	RESET	I	Micon reset input (L: Micon reset)
13	XOUT	O	System main clock signal output (5.53 MHz)
14	VSS	—	Ground
15	XIN	I	System main clock signal input (5.53 MHz)
16	VCC1	—	Power supply pin (+3.3 V)
17	NMI	I	NMI interruption signal input (Fixed at H level)
18	INT2/VDET	I	Power failure detection signal input (H: backup mode)
19	INT1/DTUNER_RDS	I	RDS data interruption signal input (Not used)
20	INT0/NC	I	Not used. (Open)
21	P8_1/CLOCK SHIFT	O	Control pin for system main clock frequency shift. (H: active)
22	P8_0/NC	O	Fixed at L level (Not used)
23	P7_7/NC	O	Fixed at L level (Not used)
24	P7_6/NC	O	Fixed at L level (Not used)
25	P7_5/NC	O	Fixed at L level (Not used)
26	P7_4/ATUNER_CLK	O	Analog tuner clock signal output (Not used)
27	P7_3/ATUNER_DI	O	Analog tuner data output (Not used)
28	P7_2/TA10OUT/BEEP	O	Beep signal output
29	RXD2/DTUNER_SCL	—	Communication pin for digital tuner.
30	TXD2/DTUNER_SDA	—	Communication pin for digital tuner.
31	P6_7/SDA	O	Flash write pin (Normally: output port)
32	P6_6/SCL1	O	Flash write pin (Normally: output port)
33	P6_5/CLK1	O	Flash write pin (Normally: output port)
34	P6_4/CTS0	O	Flash write pin (Normally: output port)
35	P6_3/NC	O	Fixed at L level (Not used)
36	P6_2/NC	O	Fixed at L level (Not used)
37	P6_1/NC	O	Fixed at L level (Not used)
38	P6_0/NC	O	Fixed at L level (Not used)
39	P5_7/NC	O	Fixed at L level (Not used)
40	P5_6/NC	O	Fixed at L level (Not used)
41	P5_5/EPM	O	Flash write pin (Normally: output port)
42	P5_4/NC	O	Fixed at L level (Not used)
43	P5_3/NC	O	Fixed at L level (Not used)
44	P5_2/LIGHT2	O	LCD back light control signal output
45	P5_1/LIGHT1	O	LCD back light control signal output
46	P5_0/CE	O	Flash write pin (Normally: output port)
47	P4_7/CSB	O	LCD driver control signal output
48	P4_6/RST	O	LCD driver reset signal output (H: driver reset)
49	P4_5/A0	O	LCD driver control signal output
50	P4_4/WRB	O	LCD driver control signal output
51	P4_3/RDB	O	LCD driver control signal output

Pin No.	Pin Name	I/O	Pin Description
52	P4_2/NC	O	Fixed at L level (Not used)
53	P4_1/NC	O	Fixed at L level (Not used)
54	P4_0/NC	O	Fixed at L level (Not used)
55	P3_7/D0	O	LCD data output
56	P3_6/D1	O	LCD data output
57	P3_5/D2	O	LCD data output
58	P3_4/D3	O	LCD data output
59	P3_3/D4	O	LCD data output
60	P3_2/D5	O	LCD data output
61	P3_1/D6	O	LCD data output
62	VCC2	—	Power supply pin (+3.3 V)
63	P3_0/D7	O	LCD data output
64	VSS	—	Ground
65	P2_7/AN2_7/SHIMUKE2	I	Destination select signal input (Fixed at L level)
66	P2_6/AN2_6/SHIMUKE1	I	Destination select signal input (Fixed at L level)
67	P2_5/AN2_5/NC	O	Fixed at L level (Not used)
68	P2_4/AN2_4/NC	O	Fixed at L level (Not used)
69	P2_3/AN2_3/NC	O	Fixed at L level (Not used)
70	P2_2/AN2_2/NC	O	Fixed at L level (Not used)
71	P2_1/AN2_1/ENC2_DATA	I	Rotary encoder (VOLUME) data input
72	P2_0/AN2_0/ENC1_DATA	I	Rotary encoder (TUNE/SELECT) data input
73	P1_7/INT5/ENC1_CLK	I	Rotary encoder (TUNE/SELECT) clock signal input
74	P1_6/INT4/ENC2_CLK	I	Rotary encoder (VOLUME) clock signal input
75	P1_5/INT3/KEY_IN	I	Valid key interruption signal input at power off (Fixed at L level).
76	P1_4/NC	O	Fixed at L level (Not used)
77	P1_3/KEY_LED	O	Key LED control signal output (Not used)
78	P1_2/NC	O	Fixed at L level (Not used)
79	P1_1/E2PROM_SCL	O	E2PROM clock signal output (Not used)
80	P1_0/E2PROM_SDA	I/O	E2PROM data output (Not used)
81	P0_7/AN0_7/VOL_CLK	O	Clock signal output for sound IC communication.
82	P0_6/AN0_6/VOL_DATA	O	Data output for sound IC communication.
83	P0_5/AN0_5/AUDIO_MUTE	O	Audio mute detection signal output (H: mute ON)
84	P0_4/AN0_4/AUDIO_STANDBY	O	Audio standby detection signal output (H: power ON)
85	P0_3/AN0_3/ATUNER_DO	I	Analog tuner DO signal input (Not used)
86	P0_2/AN0_2/DTUNER_RESET	O	DSP tuner/DSP reset signal output (L: reset)
87	P0_1/AN0_1/DTUNER_POWER	O	DSP tuner power control signal output (L: radio function)
88	P0_0/AN0_0/ATUNER_CE	O	Analog tuner chip enable signal output (Not used)
89	P10_7/AN7/DTUNER_BLEND	I	DSP tuner blend signal input (H: HD digital audio)
90	P10_6/AN6/AM(AM/FM)	O	Radio (AM) receive signal output (H: AM)
91	P10_5/AN5/NON HD (HD/NON HD)	O	Radio (HD) receive signal output (H: HD)
92	P10_4/AN4/HD	O	Radio (HD) receive signal output (L: HD) (Not used)
93	P10_3/AN3/FM	O	Radio (FM) receive signal output (H: FM) (Not used)
94	P10_2/AN2/KEY1	I	A/D converter analog signal input
95	P10_1/AN1/KEY2	I	A/D converter analog signal input
96	AVSS	—	Ground for A/D converter.

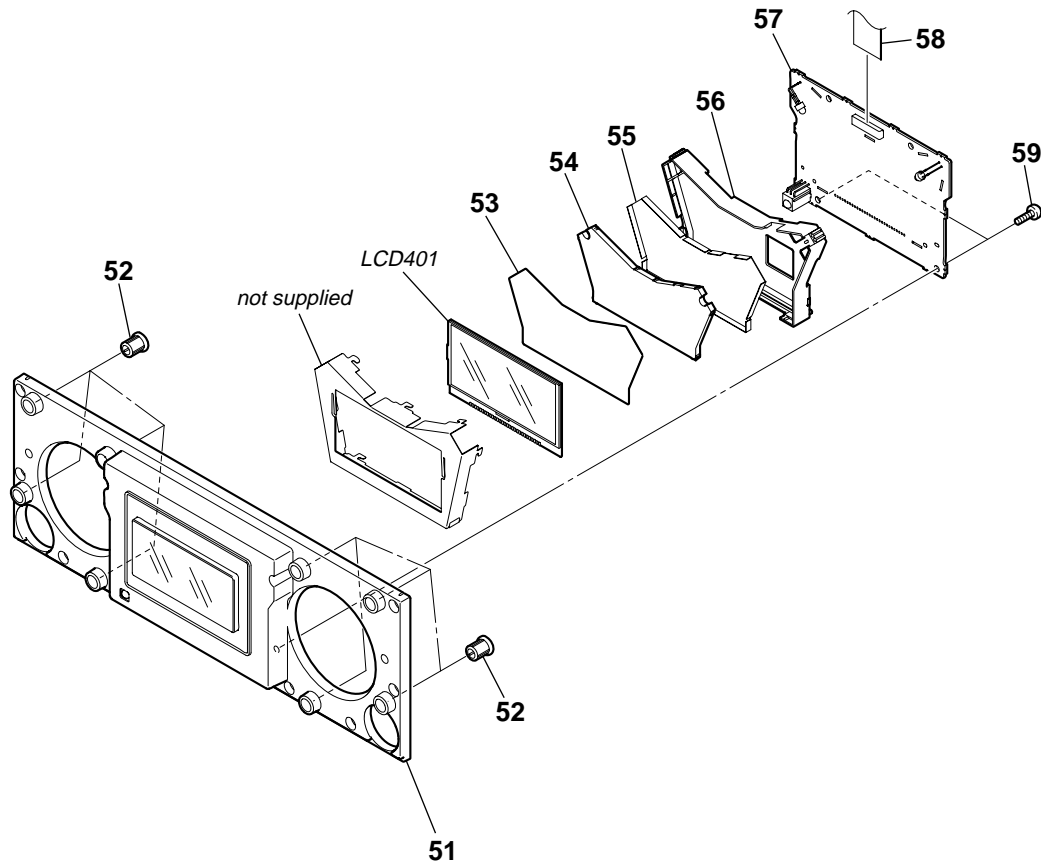
## XDR-S3HD

Pin No.	Pin Name	I/O	Pin Description
97	P10_0/KEY OFF	O	A/D key, remote control receiver and rotary encoder power control signal output. (L: normally, H: backup)
98	VREF	—	Reference voltage input for A/D converter. (+3.3 V)
99	AVCC	—	Power supply pin for A/D converter. (+3.3 V)
100	P9_7/NC	O	Fixed at L level (Not used)



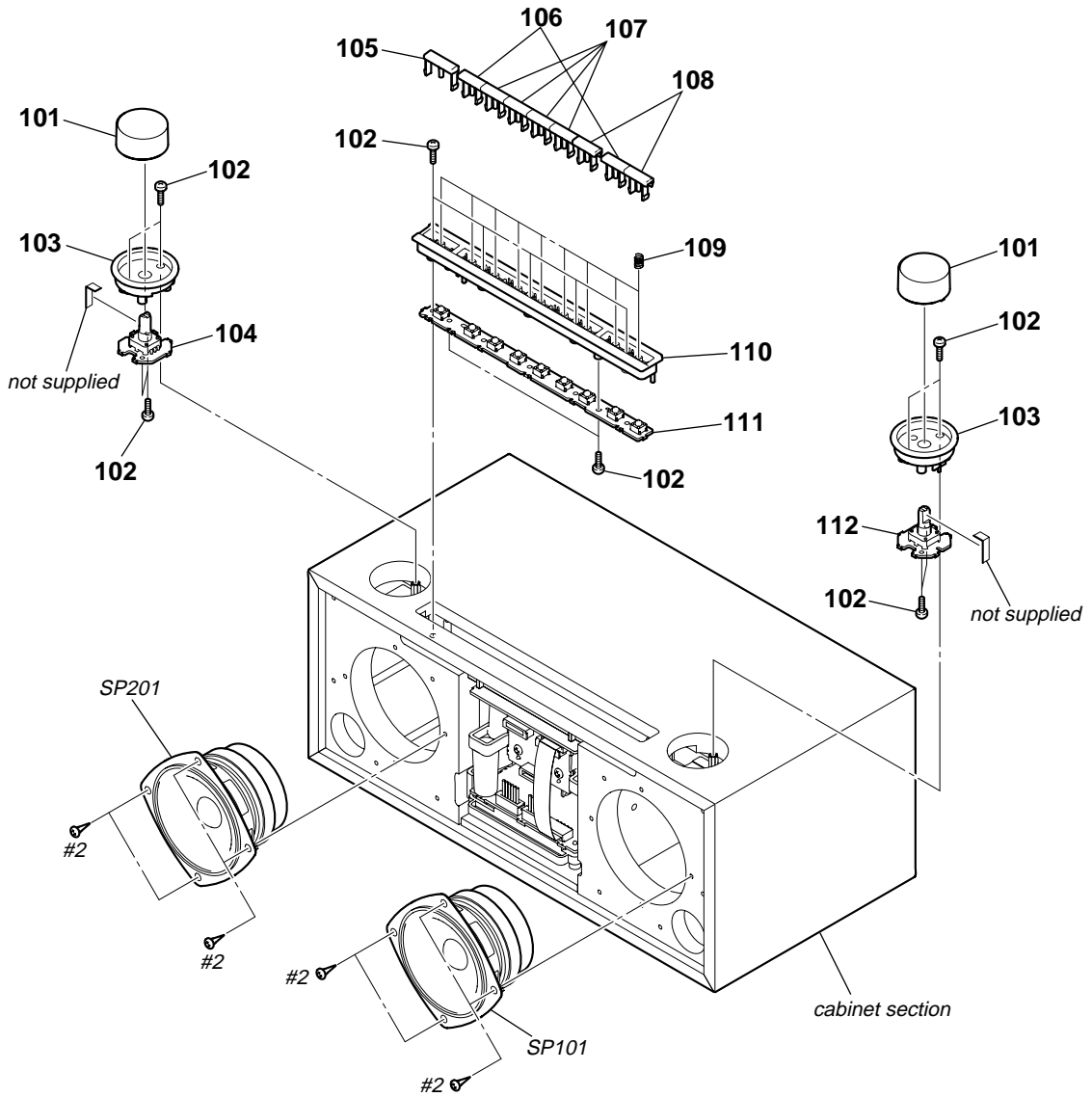


## 4-2. FRONT PANEL SECTION



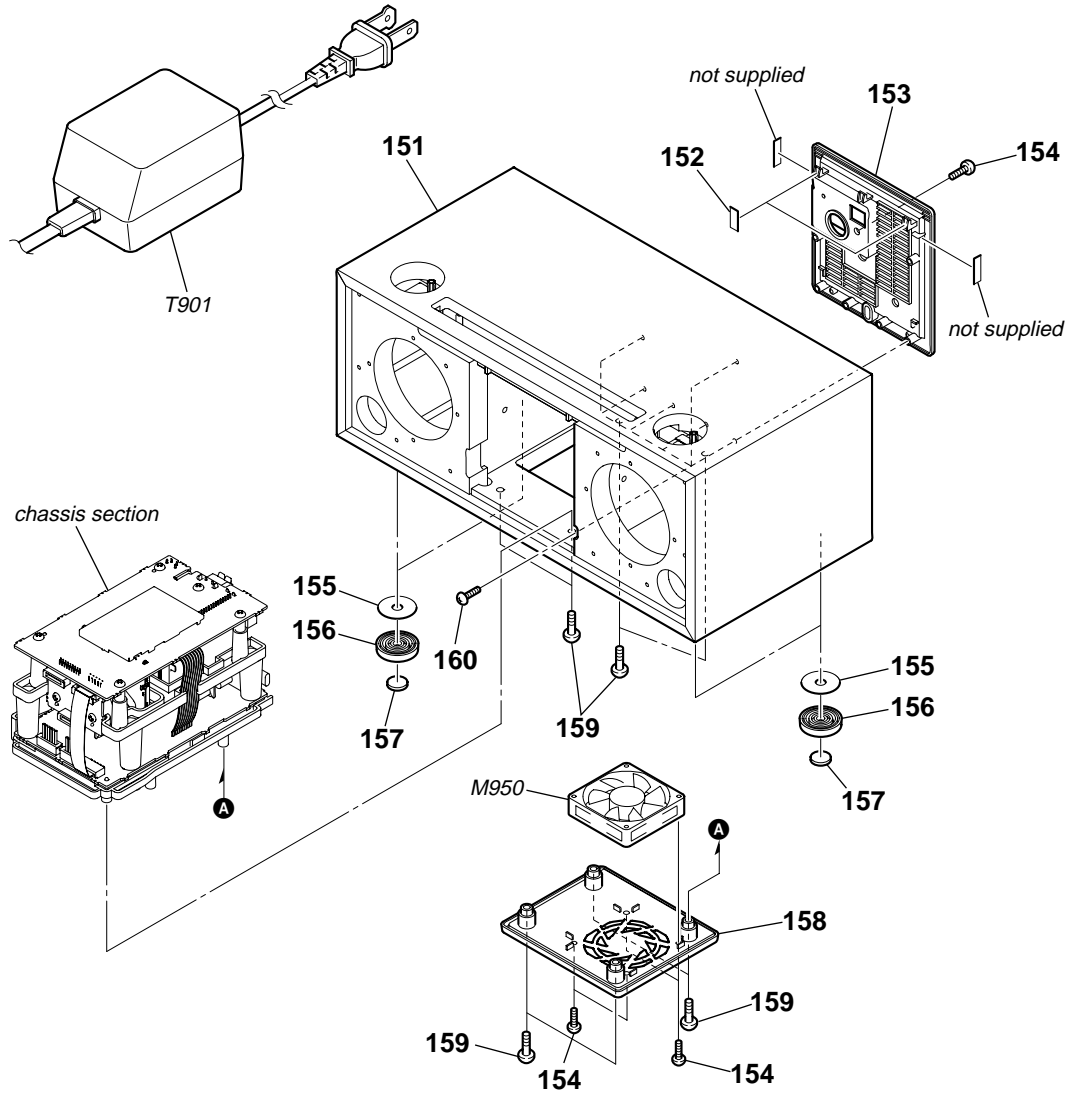
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-2179-523-1	PANEL (FRONT) SUB ASSY		56	3-100-678-01	HOLDER (LCD)	
52	2-667-343-01	BUSHING		57	X-2179-670-1	MICON BOARD, COMPLETE	
53	3-100-681-01	SHEET (LCD), DIFFUSION		58	1-834-138-21	CABLE, FLEXIBLE FLAT (18 CORE)	
54	3-100-680-01	PLATE (LCD), LIGHT GUIDE		59	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
55	3-100-679-01	REFLECTOR (LCD)		LCD401	1-802-474-11	DISPLAY PANEL, LIQUID CRYSTAL	

4-3. KEY BOARD SECTION



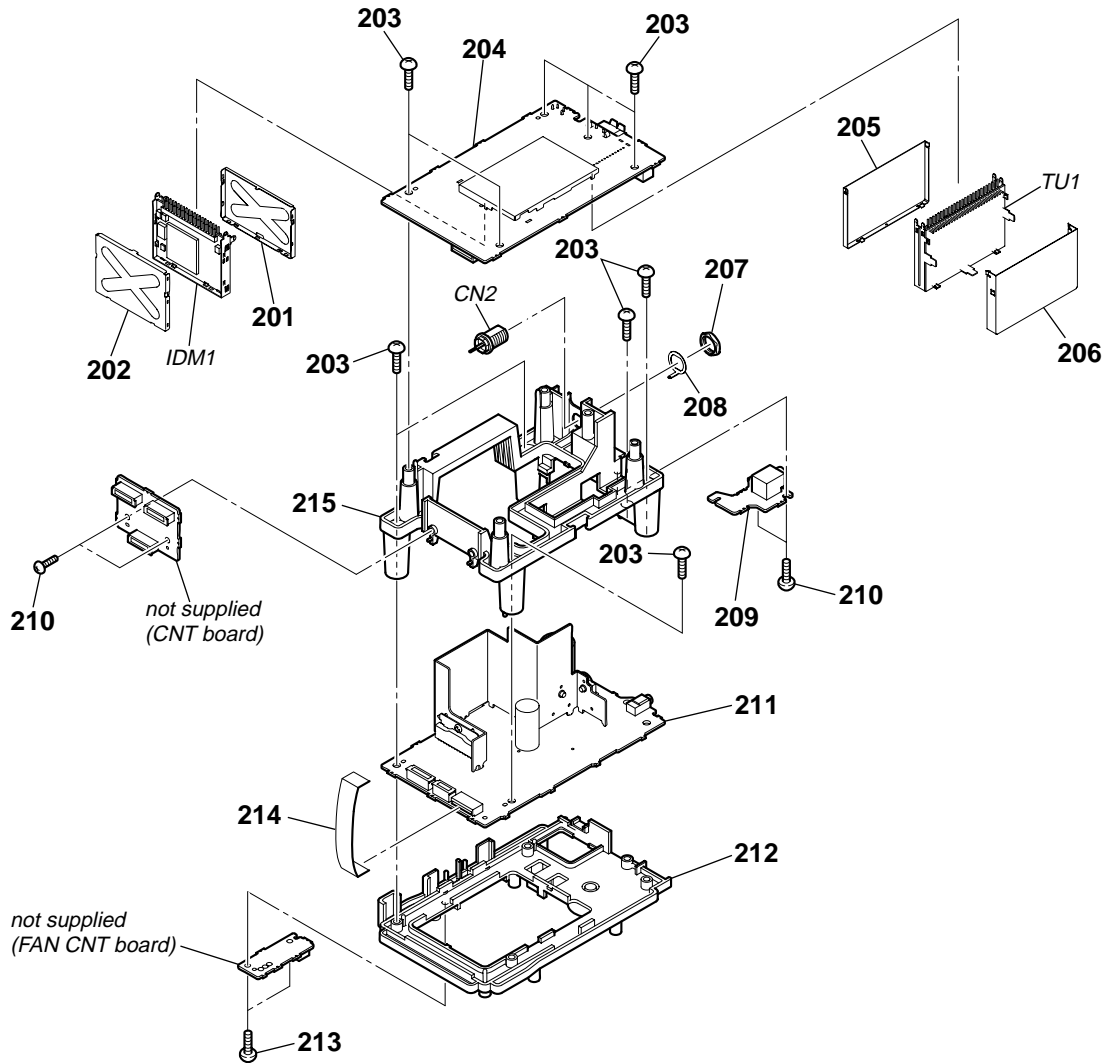
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-100-675-01	KNOB (JOG)		109	3-100-694-01	SPRING (BUTTON)	
102	3-254-081-11	SCREW		110	3-100-671-01	PANEL (TOP, KEY)	
103	3-100-674-01	ESCUTCHEON		111	A-1257-296-A	KEY BOARD, COMPLETE	
104	A-1257-298-A	VOL BOARD, COMPLETE		112	A-1257-300-A	TUNE BOARD, COMPLETE	
105	3-100-672-01	BUTTON (POWER)		SP101	1-826-688-11	SPEAKER (6.6cm) (R-CH)	
106	3-100-673-01	BUTTON (MENU)		SP201	1-826-688-11	SPEAKER (6.6cm) (L-CH)	
107	3-106-282-01	BUTTON (TONE)		#2	7-621-843-25	SCREW, WOOD +R 3.1X10	
108	3-106-281-01	BUTTON (ENTER)					

## 4-4. CABINET SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-2177-282-1	CABINET ASSY		157	2-667-344-01	FOOT, RUBBER	
152	3-218-790-01	CUSHION (REAR COVER)		158	3-214-708-01	COVER (FAN)	
153	3-100-682-01	COVER (REAR)		159	3-254-145-11	SCREW (B3), (+) BV TAPPING	
154	3-254-143-11	SCREW (B3), (+) BV TAPPING		160	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
155	3-100-687-01	SHEET (FOOT), ADHESIVE		M950	1-787-396-11	FAN, D.C. (50 SQUARE)	
156	3-100-683-01	FOOT		△ T901	1-480-224-11	POWER UNIT, AC	

4-5. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-197-151-01	CASE (LID), SHIELD		211	A-1257-291-A	POWER BOARD, COMPLETE	
202	3-197-151-11	CASE (LID), SHIELD		212	3-100-676-01	CHASSIS (LOWER)	
203	3-254-143-11	SCREW (B3), (+) BV TAPPING		213	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
* 204	A-1257-209-A	MAIN BOARD, COMPLETE		214	1-834-139-21	CABLE, FLEXIBLE FLAT (10 CORE)	
205	3-198-658-01	COVER (DSP01, A)		215	3-100-677-01	CHASSIS (UPPER)	
206	3-198-659-01	COVER (DSP01, B)		CN2	1-817-371-21	CONNECTOR, COAXIAL (F TYPE)	(ANTENNA (FM))
207	2-667-338-01	NUT (ANTENNA)		IDM1	A-1256-714-A	IDM MODULE	
208	2-667-342-01	LUG		TU1	A-1256-754-A	TUNER UNIT, DSP	
209	A-1257-294-A	JACK BOARD, COMPLETE					
210	3-252-827-01	SCREW (B2.6), (+) BV TAPPING					

SECTION 5  
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable

- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS  
In each case, u : μ, for example:  
uA.. : μA.. uPA.. : μPA..  
uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS  
uF : μF
- COILS  
uH : μH

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
		CNT BOARD *****	
		< CONNECTOR >	
CN304	1-568-272-11	SOCKET, CONNECTOR 6P	
CN305	1-568-272-11	SOCKET, CONNECTOR 6P	
CN306	1-568-272-11	SOCKET, CONNECTOR 6P	
		< JUMPER RESISTOR >	
JC830	1-216-864-11	SHORT CHIP 0	
JC831	1-216-864-11	SHORT CHIP 0	
JC832	1-216-864-11	SHORT CHIP 0	
JC834	1-216-864-11	SHORT CHIP 0	
JC835	1-216-864-11	SHORT CHIP 0	
*****			
		FAN CNT BOARD *****	
		< CAPACITOR >	
C950	1-115-156-11	CERAMIC CHIP 1uF 10V	
C951	1-124-261-00	ELECT 10uF 20% 10V	
		< CONNECTOR >	
CN950	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
		< IC >	
IC950	6-709-213-01	IC NJM2387ADL3(TE2)	
		< TRANSISTOR >	
Q951	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
Q952	8-729-027-44	TRANSISTOR DTC114TKA-T146	
		< RESISTOR >	
R950	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R951	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R952	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R953	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R954	1-216-805-11	METAL CHIP 47 5% 1/10W	
R955	1-216-821-11	METAL CHIP 1K 5% 1/10W	
*****			

Ref. No.	Part No.	Description	Remark
	A-1257-294-A	JACK BOARD, COMPLETE *****	
		< CAPACITOR >	
C180	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C280	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
		< JACK >	
J380	1-819-829-11	JACK (HEADPHONE)	
		< RESISTOR >	
R180	1-216-809-11	METAL CHIP 100 5% 1/10W	
R280	1-216-809-11	METAL CHIP 100 5% 1/10W	
*****			
	A-1257-296-A	KEY BOARD, COMPLETE *****	
		< RESISTOR >	
R801	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R802	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R804	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R805	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R806	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R807	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R808	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R809	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R810	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
		< SWITCH >	
S801	1-786-958-11	SWITCH, TACTILE (POWER)	
S802	1-786-958-11	SWITCH, TACTILE (SLEEP)	
S803	1-786-958-11	SWITCH, TACTILE (BAND)	
S804	1-786-958-11	SWITCH, TACTILE (RADIO/LINE IN)	
S805	1-786-958-11	SWITCH, TACTILE (MENU)	
S806	1-786-958-11	SWITCH, TACTILE (ENTER)	
S807	1-786-958-11	SWITCH, TACTILE (DISPLAY)	
S808	1-786-958-11	SWITCH, TACTILE (TONE)	
S809	1-786-958-11	SWITCH, TACTILE (PRESET)	
*****			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-1257-209-A	MAIN BOARD, COMPLETE *****				< TRANSISTOR >	
		< CAPACITOR >					
C6	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	Q4	8-729-034-00	TRANSISTOR	2SA1282ATP-EF
C7	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	Q5	8-729-024-93	TRANSISTOR	2SB1565E
C8	1-126-947-11	ELECT	47uF 20% 35V	Q6	6-551-700-01	TRANSISTOR	ISA1602AM1TP-1F
C11	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	Q7	8-729-029-14	TRANSISTOR	DTC144EUA-T106
C13	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V			< RESISTOR >	
C15	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	R1	1-216-864-11	SHORT CHIP	0
C16	1-126-947-11	ELECT	47uF 20% 35V	R2	1-216-864-11	SHORT CHIP	0
C27	1-164-315-11	CERAMIC CHIP	470PF 5% 50V	R3	1-216-864-11	SHORT CHIP	0
C28	1-164-315-11	CERAMIC CHIP	470PF 5% 50V	R4	1-216-864-11	SHORT CHIP	0
C36	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	R5	1-216-864-11	SHORT CHIP	0
C37	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	R6	1-216-864-11	SHORT CHIP	0
C48	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	R7	1-216-864-11	SHORT CHIP	0
C49	1-126-935-11	ELECT	470uF 20% 16V	R8	1-216-864-11	SHORT CHIP	0
C50	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	R9	1-216-864-11	SHORT CHIP	0
C51	1-126-964-11	ELECT	10uF 20% 50V	R10	1-216-864-11	SHORT CHIP	0
C52	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	R11	1-216-864-11	SHORT CHIP	0
C54	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	R12	1-216-864-11	SHORT CHIP	0
C55	1-126-935-11	ELECT	470uF 20% 16V	R13	1-216-821-11	METAL CHIP	1K 5% 1/10W
C56	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	R14	1-216-864-11	SHORT CHIP	0
C57	1-115-156-11	CERAMIC CHIP	1uF 10V	R15	1-216-864-11	SHORT CHIP	0
C58	1-126-947-11	ELECT	47uF 20% 35V	R16	1-216-864-11	SHORT CHIP	0
C59	1-115-156-11	CERAMIC CHIP	1uF 10V	R17	1-216-864-11	SHORT CHIP	0
C60	1-126-964-11	ELECT	10uF 20% 50V	R18	1-216-864-11	SHORT CHIP	0
C61	1-126-168-11	ELECT	1000uF 20% 6.3V	R19	1-216-821-11	METAL CHIP	1K 5% 1/10W
C62	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	R24	1-216-821-11	METAL CHIP	1K 5% 1/10W
		< TERMINAL BOARD >		R25	1-216-864-11	SHORT CHIP	0
CN1	1-780-519-11	TERMINAL BOARD (2P) (ANTENNA (AM))		R26	1-216-864-11	SHORT CHIP	0
		< CONNECTOR >		R27	1-216-864-11	SHORT CHIP	0
CN4	1-784-732-11	CONNECTOR, FFC 10P		R28	1-216-864-11	SHORT CHIP	0
CN5	1-779-555-21	CONNECTOR, FFC (LIF(NON-ZIF)) 18P		R35	1-216-864-11	SHORT CHIP	0
		< FERRITE BEAD >		R37	1-216-864-11	SHORT CHIP	0
FB1	1-414-227-11	INDUCTOR, FERRITE BEAD		R44	1-216-864-11	SHORT CHIP	0
FB2	1-414-227-11	INDUCTOR, FERRITE BEAD		R45	1-216-841-11	METAL CHIP	47K 5% 1/10W
FB3	1-414-227-11	INDUCTOR, FERRITE BEAD		R46	1-216-813-11	METAL CHIP	220 5% 1/10W
FB4	1-414-227-11	INDUCTOR, FERRITE BEAD		R47	1-216-841-11	METAL CHIP	47K 5% 1/10W
FB5	1-414-227-11	INDUCTOR, FERRITE BEAD		R48	1-216-841-11	METAL CHIP	47K 5% 1/10W
FB6	1-414-227-11	INDUCTOR, FERRITE BEAD		R49	1-216-864-11	SHORT CHIP	0
		< IC >		R50	1-216-841-11	METAL CHIP	47K 5% 1/10W
IC1	6-701-114-01	IC XC62EP1802MR		R51	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
IC2	6-701-114-01	IC XC62EP1802MR		R52	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
IC3	6-707-747-01	IC XC6203P332PR		R53	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC4	6-710-962-01	IC XC6213B332MR		R55	1-216-817-11	METAL CHIP	470 5% 1/10W
		< JUMPER RESISTOR >		R56	1-216-817-11	METAL CHIP	470 5% 1/10W
JC1	1-216-864-11	SHORT CHIP	0	R57	1-216-837-11	METAL CHIP	22K 5% 1/10W
JC2	1-216-864-11	SHORT CHIP	0	R58	1-216-845-11	METAL CHIP	100K 5% 1/10W
JC3	1-216-864-11	SHORT CHIP	0	R59	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
JC4	1-216-864-11	SHORT CHIP	0	R61	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
JC5	1-216-864-11	SHORT CHIP	0			< SWITCH >	
				S1	1-554-088-00	SWITCH, KEYBOARD (RESET)	
						< THERMISTOR >	
				TH1	1-805-074-11	THERMISTOR	

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# XDR-S3HD

## MICON

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
	X-2179-670-1	MICON BOARD, COMPLETE *****						< CONNECTOR >			
		< CAPACITOR >				CN401	1-779-555-21	CONNECTOR, FFC (LIF(NON-ZIF)) 18P			
								< DIODE >			
C401	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D401	6-501-880-01	LED SDPW31G0C0000 (LCD BACK LIGHT)			
C402	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	D402	6-501-880-01	LED SDPW31G0C0000 (LCD BACK LIGHT)			
C403	1-162-919-11	CERAMIC CHIP	22PF	5%	50V			< IC >			
C409	1-115-156-11	CERAMIC CHIP	1uF		10V						
C414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C415	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	☆ IC401	(not supplied)	IC M3062LFGPPF			
C416	1-164-156-11	CERAMIC CHIP	0.1uF		25V	IC403	6-702-148-01	IC XC61CN2702NR			
C417	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	IC405	6-600-349-31	IC NJL24H400A (IR)			
C418	1-162-927-11	CERAMIC CHIP	100PF	5%	50V			< JUMPER RESISTOR >			
C419	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JC401	1-216-864-11	SHORT CHIP	0		
C420	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JC402	1-216-864-11	SHORT CHIP	0		
C421	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JC404	1-216-864-11	SHORT CHIP	0		
C422	1-162-927-11	CERAMIC CHIP	100PF	5%	50V			< LIQUID CRYSTAL DISPLAY >			
C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C424	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	LCD401	1-802-474-11	DISPLAY PANEL, LIQUID CRYSTAL			
C425	1-162-927-11	CERAMIC CHIP	100PF	5%	50V			< TRANSISTOR >			
C426	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	Q403	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
C427	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	Q404	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
C428	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	Q405	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
C429	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	Q406	8-729-027-44	TRANSISTOR	DTC114TKA-T146		
C430	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	Q409	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
C431	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	Q410	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
C432	1-162-927-11	CERAMIC CHIP	100PF	5%	50V			< RESISTOR >			
C433	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R401	1-216-821-11	METAL CHIP	1K	5%	1/10W
C434	1-115-156-11	CERAMIC CHIP	1uF		10V	R402	1-216-833-11	METAL CHIP	10K	5%	1/10W
C435	1-164-346-11	CERAMIC CHIP	1uF		16V	R403	1-216-849-11	METAL CHIP	220K	5%	1/10W
C436	1-164-346-11	CERAMIC CHIP	1uF		16V	R404	1-216-821-11	METAL CHIP	1K	5%	1/10W
C437	1-164-346-11	CERAMIC CHIP	1uF		16V	R405	1-216-864-11	SHORT CHIP	0		
C438	1-164-346-11	CERAMIC CHIP	1uF		16V	R406	1-216-833-11	METAL CHIP	10K	5%	1/10W
C439	1-115-156-11	CERAMIC CHIP	1uF		10V	R407	1-216-821-11	METAL CHIP	1K	5%	1/10W
C440	1-115-156-11	CERAMIC CHIP	1uF		10V	R408	1-216-821-11	METAL CHIP	1K	5%	1/10W
C441	1-115-156-11	CERAMIC CHIP	1uF		10V	R409	1-216-821-11	METAL CHIP	1K	5%	1/10W
C442	1-115-156-11	CERAMIC CHIP	1uF		10V	R411	1-216-797-11	METAL CHIP	10	5%	1/10W
C443	1-164-346-11	CERAMIC CHIP	1uF		16V	R415	1-216-833-11	METAL CHIP	10K	5%	1/10W
C444	1-115-156-11	CERAMIC CHIP	1uF		10V	R416	1-216-853-11	METAL CHIP	470K	5%	1/10W
C445	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R417	1-216-841-11	METAL CHIP	47K	5%	1/10W
C450	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R418	1-216-841-11	METAL CHIP	47K	5%	1/10W
C451	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R419	1-216-809-11	METAL CHIP	100	5%	1/10W
C452	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R420	1-216-809-11	METAL CHIP	100	5%	1/10W
C453	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R423	1-216-821-11	METAL CHIP	1K	5%	1/10W
C454	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R424	1-216-821-11	METAL CHIP	1K	5%	1/10W
C455	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R425	1-216-821-11	METAL CHIP	1K	5%	1/10W
C456	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R426	1-216-821-11	METAL CHIP	1K	5%	1/10W
C457	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R427	1-216-821-11	METAL CHIP	1K	5%	1/10W
C458	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R428	1-216-821-11	METAL CHIP	1K	5%	1/10W
C459	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R429	1-216-821-11	METAL CHIP	1K	5%	1/10W
C460	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R430	1-216-821-11	METAL CHIP	1K	5%	1/10W
C461	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R431	1-216-821-11	METAL CHIP	1K	5%	1/10W
C462	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R432	1-216-821-11	METAL CHIP	1K	5%	1/10W
C468	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R433	1-216-833-11	METAL CHIP	10K	5%	1/10W
C469	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C470	1-115-156-11	CERAMIC CHIP	1uF		10V						

☆ IC401 on the MICON board cannot be replaced as a single component.  
When IC401 is faulty, replace the IC together with the board by a new IC complete MICON board (X-2179-670-1).



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R434	1-216-833-11	METAL CHIP	10K 5% 1/10W			< VIBRATOR >	
R435	1-216-797-11	METAL CHIP	10 5% 1/10W				
R436	1-216-797-11	METAL CHIP	10 5% 1/10W	X401	1-813-202-11	VIBRATOR, CRYSTAL (32kHz)	
R437	1-216-813-11	METAL CHIP	220 5% 1/10W	X402	1-813-988-21	VIBRATOR, CERAMIC (5.53MHz)	
R438	1-216-817-11	METAL CHIP	470 5% 1/10W	*****			
R439	1-216-813-11	METAL CHIP	220 5% 1/10W	A-1257-291-A	POWER BOARD, COMPLETE		
R440	1-216-805-11	METAL CHIP	47 5% 1/10W	*****			
R441	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R443	1-216-821-11	METAL CHIP	1K 5% 1/10W	3-253-143-01	SCREW (B2.6), (+) P TAPPING		
R444	1-216-821-11	METAL CHIP	1K 5% 1/10W			< CAPACITOR >	
R445	1-216-821-11	METAL CHIP	1K 5% 1/10W	C130	1-126-963-11	ELECT 4.7uF 20% 50V	
R446	1-216-821-11	METAL CHIP	1K 5% 1/10W	C131	1-126-963-11	ELECT 4.7uF 20% 50V	
R447	1-216-821-11	METAL CHIP	1K 5% 1/10W	C132	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
R448	1-216-821-11	METAL CHIP	1K 5% 1/10W	C133	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
R449	1-216-821-11	METAL CHIP	1K 5% 1/10W	C134	1-126-963-11	ELECT 4.7uF 20% 50V	
R450	1-216-821-11	METAL CHIP	1K 5% 1/10W	C135	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R451	1-216-821-11	METAL CHIP	1K 5% 1/10W	C136	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
R452	1-216-797-11	METAL CHIP	10 5% 1/10W	C140	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
R453	1-216-821-11	METAL CHIP	1K 5% 1/10W	C144	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
R456	1-216-845-11	METAL CHIP	100K 5% 1/10W	C148	1-126-963-11	ELECT 4.7uF 20% 50V	
R468	1-216-857-11	METAL CHIP	1M 5% 1/10W	C150	1-126-963-11	ELECT 4.7uF 20% 50V	
R469	1-216-845-11	METAL CHIP	100K 5% 1/10W	C151	1-126-947-11	ELECT 47uF 20% 35V	
R470	1-216-849-11	METAL CHIP	220K 5% 1/10W	C152	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R473	1-216-853-11	METAL CHIP	470K 5% 1/10W	C153	1-126-933-11	ELECT 100uF 20% 16V	
R474	1-216-853-11	METAL CHIP	470K 5% 1/10W	C154	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
R475	1-216-821-11	METAL CHIP	1K 5% 1/10W	C155	1-126-767-11	ELECT 1000uF 20% 16V	
R476	1-216-821-11	METAL CHIP	1K 5% 1/10W	C156	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
R477	1-216-821-11	METAL CHIP	1K 5% 1/10W	C230	1-126-963-11	ELECT 4.7uF 20% 50V	
R478	1-216-821-11	METAL CHIP	1K 5% 1/10W	C231	1-126-963-11	ELECT 4.7uF 20% 50V	
R479	1-216-845-11	METAL CHIP	100K 5% 1/10W	C232	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
R480	1-216-845-11	METAL CHIP	100K 5% 1/10W	C233	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
R481	1-216-821-11	METAL CHIP	1K 5% 1/10W	C234	1-126-963-11	ELECT 4.7uF 20% 50V	
R482	1-216-845-11	METAL CHIP	100K 5% 1/10W	C235	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R492	1-216-821-11	METAL CHIP	1K 5% 1/10W	C236	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
R493	1-216-821-11	METAL CHIP	1K 5% 1/10W	C240	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
R494	1-216-821-11	METAL CHIP	1K 5% 1/10W	C244	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
R495	1-216-821-11	METAL CHIP	1K 5% 1/10W	C248	1-126-963-11	ELECT 4.7uF 20% 50V	
R496	1-216-821-11	METAL CHIP	1K 5% 1/10W	C250	1-126-963-11	ELECT 4.7uF 20% 50V	
R497	1-216-821-11	METAL CHIP	1K 5% 1/10W	C251	1-126-947-11	ELECT 47uF 20% 35V	
R498	1-216-821-11	METAL CHIP	1K 5% 1/10W	C252	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R499	1-216-821-11	METAL CHIP	1K 5% 1/10W	C253	1-126-933-11	ELECT 100uF 20% 16V	
R500	1-216-821-11	METAL CHIP	1K 5% 1/10W	C254	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
R501	1-216-821-11	METAL CHIP	1K 5% 1/10W	C255	1-126-767-11	ELECT 1000uF 20% 16V	
R502	1-216-841-11	METAL CHIP	47K 5% 1/10W	C256	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
R503	1-216-821-11	METAL CHIP	1K 5% 1/10W	C330	1-126-947-11	ELECT 47uF 20% 35V	
R504	1-216-841-11	METAL CHIP	47K 5% 1/10W	C331	1-126-959-11	ELECT 0.47uF 20% 50V	
R505	1-216-837-11	METAL CHIP	22K 5% 1/10W	C332	1-126-960-11	ELECT 1uF 20% 50V	
R506	1-216-797-11	METAL CHIP	10 5% 1/10W	C333	1-104-665-11	ELECT 100uF 20% 25V	
R507	1-216-797-11	METAL CHIP	10 5% 1/10W	C334	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
R510	1-216-845-11	METAL CHIP	100K 5% 1/10W	C335	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R511	1-216-845-11	METAL CHIP	100K 5% 1/10W	C336	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
R519	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C337	1-126-947-11	ELECT 47uF 20% 35V	
R520	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C339	1-126-947-11	ELECT 47uF 20% 35V	
R521	1-216-845-11	METAL CHIP	100K 5% 1/10W	C340	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
R522	1-216-833-11	METAL CHIP	10K 5% 1/10W	C342	1-126-964-11	ELECT 10uF 20% 50V	
R524	1-216-821-11	METAL CHIP	1K 5% 1/10W	C343	1-126-964-11	ELECT 10uF 20% 50V	
R525	1-216-853-11	METAL CHIP	470K 5% 1/10W	C344	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
R526	1-216-821-11	METAL CHIP	1K 5% 1/10W				

# XDR-S3HD

## POWER

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C901	1-107-892-11	ELECT	4700uF 20%	25V	Q231	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF
C902	1-126-927-11	ELECT	2200uF 20%	10V	Q331	8-729-027-44	TRANSISTOR DTC114TKA-T146
C903	1-162-970-11	CERAMIC CHIP	0.01uF 10%	25V	Q332	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF
C904	1-162-970-11	CERAMIC CHIP	0.01uF 10%	25V	Q901	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF
C905	1-126-935-11	ELECT	470uF 20%	16V	Q902	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF
C906	1-115-156-11	CERAMIC CHIP	1uF	10V	Q903	8-729-018-99	TRANSISTOR 2SD2394-F
C907	1-128-551-11	ELECT	22uF 20%	63V	Q904	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF
C909	1-162-970-11	CERAMIC CHIP	0.01uF 10%	25V	Q905	8-729-027-44	TRANSISTOR DTC114TKA-T146
C910	1-126-933-11	ELECT	100uF 20%	16V	Q906	8-729-011-92	TRANSISTOR 2SD2001TP-K1K2
C912	1-164-156-11	CERAMIC CHIP	0.1uF	25V	Q907	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF
C913	1-165-176-11	CERAMIC CHIP	0.047uF 10%	16V	Q908	8-729-027-44	TRANSISTOR DTC114TKA-T146
C915	1-126-918-11	ELECT	4700uF 20%	6.3V	Q909	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF
C916	1-162-970-11	CERAMIC CHIP	0.01uF 10%	25V	Q910	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF
C917	1-162-970-11	CERAMIC CHIP	0.01uF 10%	25V	Q911	8-729-018-99	TRANSISTOR 2SD2394-F
C918	1-126-935-11	ELECT	470uF 20%	16V	Q912	8-729-027-44	TRANSISTOR DTC114TKA-T146
C919	1-115-156-11	CERAMIC CHIP	1uF	10V	Q913	8-729-027-38	TRANSISTOR DTA144EKA-T146
C921	1-104-655-11	ELECT	470uF 20%	6.3V	Q914	8-729-027-44	TRANSISTOR DTC114TKA-T146
< CONNECTOR >				< RESISTOR >			
CN301	1-784-732-11	CONNECTOR, FFC 10P		R130	1-216-821-11	METAL CHIP	1K 5% 1/10W
CN302	1-568-270-11	SOCKET, CONNECTOR 4P		R132	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
CN303	1-568-272-11	SOCKET, CONNECTOR 6P		R133	1-216-853-11	METAL CHIP	470K 5% 1/10W
< DIODE >				R134	1-216-849-11	METAL CHIP	220K 5% 1/10W
D130	8-719-991-33	DIODE 1SS133T-77		R135	1-216-833-11	METAL CHIP	10K 5% 1/10W
D131	8-719-991-33	DIODE 1SS133T-77		R136	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
D230	8-719-991-33	DIODE 1SS133T-77		R138	1-216-841-11	METAL CHIP	47K 5% 1/10W
D231	8-719-991-33	DIODE 1SS133T-77		R140	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
D901	8-719-991-33	DIODE 1SS133T-77		R142	1-216-821-11	METAL CHIP	1K 5% 1/10W
D902	8-719-991-33	DIODE 1SS133T-77		R143	1-216-833-11	METAL CHIP	10K 5% 1/10W
D903	8-719-110-17	DIODE RD10ESB2		R144	1-216-821-11	METAL CHIP	1K 5% 1/10W
D904	8-719-991-33	DIODE 1SS133T-77		R145	1-216-833-11	METAL CHIP	10K 5% 1/10W
D906	8-719-109-89	DIODE RD5.6ESB2		R146	1-216-817-11	METAL CHIP	470 5% 1/10W
D907	8-719-069-29	DIODE RB520S-30TE61		R147	1-216-813-11	METAL CHIP	220 5% 1/10W
D908	8-719-991-33	DIODE 1SS133T-77		R148	1-216-789-11	METAL CHIP	2.2 5% 1/10W
D909	8-719-991-33	DIODE 1SS133T-77		R149	1-216-837-11	METAL CHIP	22K 5% 1/10W
D910	8-719-921-40	DIODE MTZJ-4.7C		R150	1-216-841-11	METAL CHIP	47K 5% 1/10W
D911	8-719-991-33	DIODE 1SS133T-77		R151	1-216-833-11	METAL CHIP	10K 5% 1/10W
D912	8-719-046-47	DIODE 1N5401TM		R152	1-216-821-11	METAL CHIP	1K 5% 1/10W
D913	8-719-988-61	DIODE 1SS355TE-17		R230	1-216-821-11	METAL CHIP	1K 5% 1/10W
D914	8-719-069-29	DIODE RB520S-30TE61		R232	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
D915	8-719-991-33	DIODE 1SS133T-77		R233	1-216-853-11	METAL CHIP	470K 5% 1/10W
D916	8-719-988-61	DIODE 1SS355TE-17		R234	1-216-849-11	METAL CHIP	220K 5% 1/10W
< IC >				R235	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC301	6-701-824-11	IC BD3870FS-E2		R236	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
IC302	8-759-426-51	IC BA5417		R238	1-216-841-11	METAL CHIP	47K 5% 1/10W
IC901	6-709-213-01	IC NJM2387ADL3(TE2)		R240	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
IC902	6-708-637-01	IC NJM2871BF33-TE2		R242	1-216-821-11	METAL CHIP	1K 5% 1/10W
IC903	6-709-213-01	IC NJM2387ADL3(TE2)		R243	1-216-833-11	METAL CHIP	10K 5% 1/10W
< JACK >				R244	1-216-821-11	METAL CHIP	1K 5% 1/10W
J301	1-563-857-31	JACK, HEADPHONE (LINE IN)		R245	1-216-833-11	METAL CHIP	10K 5% 1/10W
< TRANSISTOR >				R246	1-216-817-11	METAL CHIP	470 5% 1/10W
Q130	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R247	1-216-813-11	METAL CHIP	220 5% 1/10W
Q131	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R248	1-216-789-11	METAL CHIP	2.2 5% 1/10W
Q230	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R249	1-216-837-11	METAL CHIP	22K 5% 1/10W
				R250	1-216-841-11	METAL CHIP	47K 5% 1/10W
				R251	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R252	1-216-821-11	METAL CHIP	1K 5% 1/10W

Ref. No.	Part No.	Description	Remark
R331	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R333	1-216-841-11	METAL CHIP 47K 5%	1/10W
R334	1-216-853-11	METAL CHIP 470K 5%	1/10W
R335	1-216-821-11	METAL CHIP 1K 5%	1/10W
R336	1-216-821-11	METAL CHIP 1K 5%	1/10W
R337	1-216-821-11	METAL CHIP 1K 5%	1/10W
R338	1-216-853-11	METAL CHIP 470K 5%	1/10W
R339	1-216-841-11	METAL CHIP 47K 5%	1/10W
R341	1-216-821-11	METAL CHIP 1K 5%	1/10W
R342	1-216-841-11	METAL CHIP 47K 5%	1/10W
R901	1-216-833-11	METAL CHIP 10K 5%	1/10W
R902	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R903	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R904	1-216-833-11	METAL CHIP 10K 5%	1/10W
R905	1-216-809-11	METAL CHIP 100 5%	1/10W
R906	1-216-809-11	METAL CHIP 100 5%	1/10W
R907	1-216-841-11	METAL CHIP 47K 5%	1/10W
R908	1-216-821-11	METAL CHIP 1K 5%	1/10W
R909	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R910	1-216-805-11	METAL CHIP 47 5%	1/10W
R911	1-216-821-11	METAL CHIP 1K 5%	1/10W
R912	1-216-821-11	METAL CHIP 1K 5%	1/10W
R913	1-216-821-11	METAL CHIP 1K 5%	1/10W
R914	1-216-841-11	METAL CHIP 47K 5%	1/10W
R915	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R916	1-216-833-11	METAL CHIP 10K 5%	1/10W
R917	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R918	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R919	1-216-833-11	METAL CHIP 10K 5%	1/10W
R920	1-216-809-11	METAL CHIP 100 5%	1/10W
R921	1-216-809-11	METAL CHIP 100 5%	1/10W
R923	1-216-817-11	METAL CHIP 470 5%	1/10W
R924	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R925	1-216-817-11	METAL CHIP 470 5%	1/10W
R926	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R927	1-216-821-11	METAL CHIP 1K 5%	1/10W
R928	1-216-841-11	METAL CHIP 47K 5%	1/10W
R929	1-216-841-11	METAL CHIP 47K 5%	1/10W
R940	1-216-841-11	METAL CHIP 47K 5%	1/10W

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A-1257-300-A TUNE BOARD, COMPLETE  
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< RESISTOR >

R830	1-216-821-11	METAL CHIP 1K 5%	1/10W
R831	1-216-821-11	METAL CHIP 1K 5%	1/10W

< ROTARY ENCODER >

S812 1-480-223-11 ENCODER, ROTARY (TUNE/SELECT)

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A-1257-298-A VOL BOARD, COMPLETE  
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< RESISTOR >

R832	1-216-821-11	METAL CHIP 1K 5%	1/10W
R833	1-216-821-11	METAL CHIP 1K 5%	1/10W

Ref. No. Part No. Description Remark

< ROTARY ENCODER >

S813 1-480-223-11 ENCODER, ROTARY (VOLUME)

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MISCELLANEOUS  
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58	1-834-138-21	CABLE, FLEXIBLE FLAT (18 CORE)	
214	1-834-139-21	CABLE, FLEXIBLE FLAT (10 CORE)	
CN2	1-817-371-21	CONNECTOR, COAXIAL (F TYPE)	(ANTENNA (FM))

IDM1	A-1256-714-A	IDM MODULE	
LCD401	1-802-474-11	DISPLAY PANEL, LIQUID CRYSTAL	

M950	1-787-396-11	FAN, D.C. (50 SQUARE)	
SP101	1-826-688-11	SPEAKER (6.6cm) (R-CH)	
SP201	1-826-688-11	SPEAKER (6.6cm) (L-CH)	

△ T901	1-480-224-11	POWER UNIT, AC	
TU1	A-1256-754-A	TUNER UNIT, DSP	

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ACCESSORIES  
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1-754-102-31	ANTENNA, LOOP (AM)	
1-754-537-11	ANTENNA, DIPOLE (FM)	
1-793-184-23	CONNECTOR (F TYPE ADAPTOR) (FM)	
1-833-072-11	CORD (WITH PLUG) (SP-SP) (AUDIO)	
3-208-169-11	MANUAL, INSTRUCTION (ENGLISH)	
A-1259-028-A	REMOTE COMMANDER (RMT-CS3A)	(including BATTERY LID)

