

# ICF-SW7600GR

## SERVICE MANUAL

Ver 1.0 2001.03

US Model  
Canadian Model  
AEP Model  
Chinese Model  
E Model  
Tourist Model



本资料由OKXIA视听皮带资源库www.okxia.cn提供

### SPECIFICATIONS

|                             |                                                                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit system              | FM: Super heterodyne<br>AM: Dual conversion super heterodyne                                                                                                   |
| Frequency range             | FM: 76–108 MHz<br>SW: 1 621–29 999 kHz<br>MW: 530–1 620 kHz<br>LW: 150–529 kHz                                                                                 |
| Output                      | LINE OUT jack (stereo minijack) × 1<br>Recording output level approx. 245 mV, output impedance less than 10 kΩ<br>(Headphones) jack (stereo minijack) × 1 16 Ω |
| Speaker                     | Approx. 77 mm diameter, 8 Ω × 1                                                                                                                                |
| Maximum output              | 380 mW (at 10 % harmonic distortion)                                                                                                                           |
| Power requirements          | DC 6 V, four R6 (size AA) batteries                                                                                                                            |
| External power source       | DC IN 6V (except Chinese)                                                                                                                                      |
| Dimensions                  | Approx. 190 × 118.8 × 35.3 mm incl. projecting parts (w/h/d)                                                                                                   |
| Mass                        | Approx. 536 g<br>Approx. 608 g (incl. four R6 (size AA) batteries)                                                                                             |
| <b>Supplied accessories</b> |                                                                                                                                                                |
| Carrying case (1)           |                                                                                                                                                                |
| Compact antenna AN-71 (1)   |                                                                                                                                                                |
| Wave Handbook (1)           |                                                                                                                                                                |

Design and specifications are subject to change without notice.

FM STEREO/SW/MW/LW  
PLL SYNTHESIZED RECEIVER

9-873-099-11  
2001C1600-1  
© 2001.3

Sony Corporation  
Audio Entertainment Group  
General Engineering Dept.

SONY®

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**SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  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.

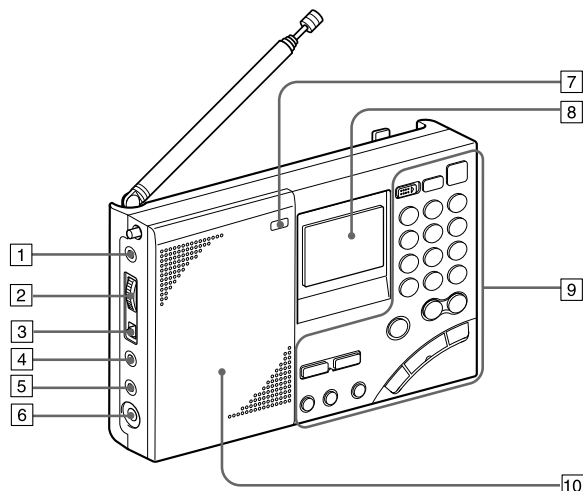
**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

## SECTION 1 GENERAL

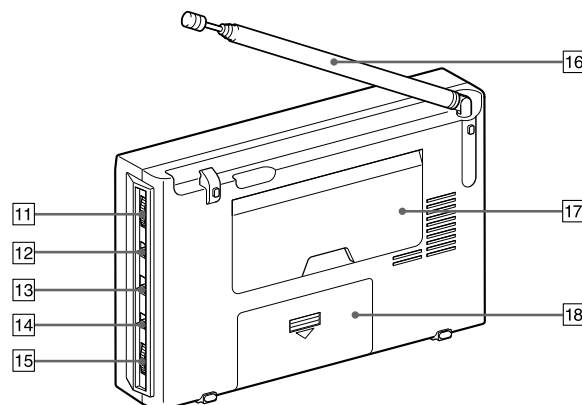
This section is extracted from instruction manual.

### Front

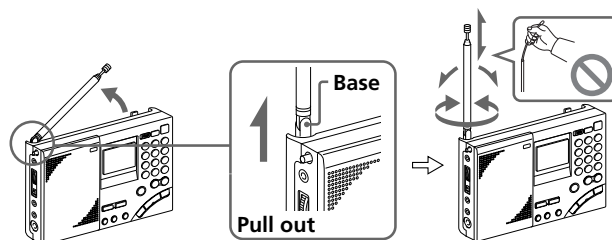


- 1 AM EXT ANT (AM external antenna) jack (35)
- 2 ATT (attenuator) control (21)
- 3 ATT (attenuator) ON/OFF switch (21)
- 4 LINE OUT (recording output) jack (33)
- 5 (headphones) jack (17, 33)  
You can enjoy FM stereo broadcasting by connecting the optional stereo headphones to the unit. When using headphones, sound from the speaker will be muted.
- 6 DC IN 6V (external power input) jack (10)
- 7 LIGHT button  
When the display is difficult to see, press this button to light up the display for approximately 10 seconds. Pressing the button again while the light is on will turn off the light. Performing button operations while the light is on will extend the lighting time.
- 8 Display (7)
- 9 Controls (6)
- 10 Speaker

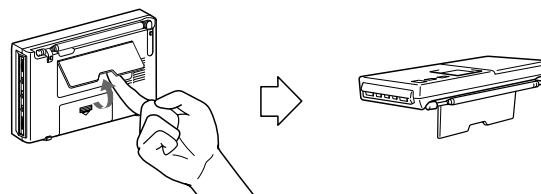
### Rear



- 11 SSB FINE TUNE control (26)
- 12 LSB/USB selector (26, 27)
- 13 AM MODE selector (26, 27)
- 14 TONE selector (33)
- 15 VOLUME control
- 16 Telescopic antenna  
Always pull out the base of the antenna before use. Furthermore, do not use unnecessary force when storing the antenna. At this time, be sure to push in the base as well.

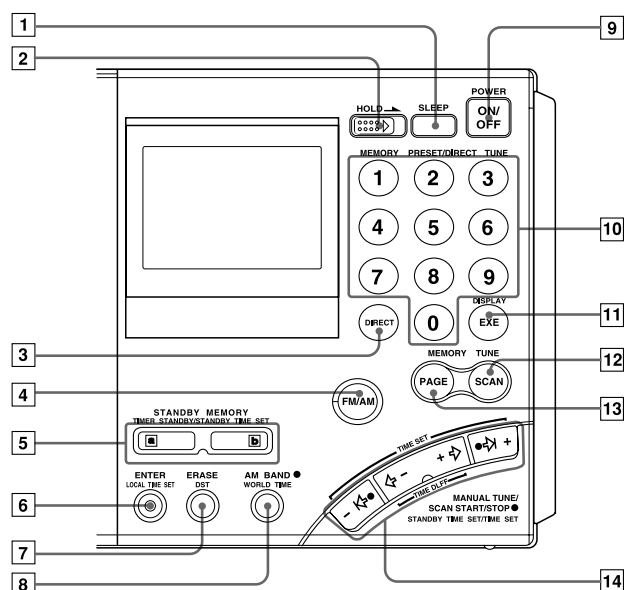


- 17 Stand



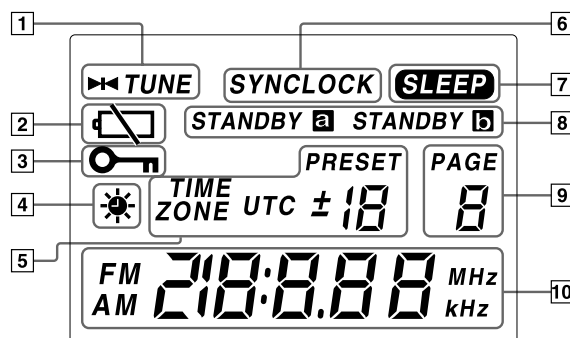
- 18 Battery compartment

## Controls



- 1** SLEEP button (31)
- 2** HOLD switch (32)
- 3** DIRECT button (15, 16)
- 4** FM/AM button (16, 18, 20)
- 5** STANDBY MEMORY, TIMER STANDBY/STANDBY TIME SET buttons (28, 30)
- 6** ENTER, LOCAL TIME SET button (11, 22, 28)
- 7** ERASE, DST (Daylight Saving Time) button (11, 13, 30)
- 8** AM BAND, WORLD TIME button (13, 18, 20)
- 9** POWER ON/OFF button
- 10** Number buttons (15, 16, 22, 23, 24)
- 11** DISPLAY, EXE button (13, 15, 16)  
Press to switch to clock display while operating the radio. Press again to return to the previous display. If you do not press the button, the display will return to the previous condition in about 10 seconds.
- 12** SCAN button (24)
- 13** PAGE button (22, 24)
- 14** MANUAL TUNE/SCAN START/STOP, STANDBY TIME SET/TIME SET buttons (11, 13, 18, 20, 28)

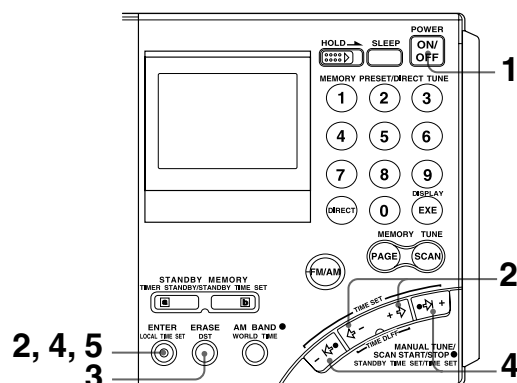
## Display



- 1** TUNE indicator (16, 18)  
Appears when a station is tuned in.
- 2** Battery indicator (9)
- 3** HOLD indicator (32)  
Appears when HOLD is in effect. All buttons will be inoperative.
- 4** \* (Daylight Saving Time) indicator (12)  
Appears when the time display is adjusted to the Daylight Saving Time.
- 5** Preset number/time difference display (11, 22, 23)
- 6** SYNCLOCK (synchronous detection lock) indicator (27)  
Appears when synchronous detection is in effect.
- 7** SLEEP indicator (31)  
Appears when the sleep timer is in effect.
- 8** STANDBY **a**, STANDBY **b** indicators (28, 29, 30)  
Light up when the standby timer is set.
- 9** PAGE number display  
Appears constantly when the radio is on.
- 10** Time/frequency display

## Setting the Current Time

"0:00" flashes in the display when installing the batteries for the first time or when the unit has been reset. Set the clock to the current time.



This unit can display local time, which is the time for your time zone, as well as world time, which is the time for any other area in the world. For the calculation of the time in other areas of the world, the time difference\* between the local time and the UTC (Universal Time Coordinated) is used (see page 14, "Time difference with UTC for each area"). To find out the correct time, set the correct time and time difference of the area you are in.

\* This unit uses time zones to pinpoint specific areas.

- 1** If the radio is turned on, press POWER ON/OFF to turn it off.

### Note

You cannot set the clock when the radio is turned on.

- 2** Hold down LOCAL TIME SET and press  $\leftarrow$  or  $\rightarrow$  to choose the time difference between your local time and the UTC.

TIME ZONE indicator will appear. Each time you press  $\leftarrow$  or  $\rightarrow$ , the time difference (UTC + or -) and the "hour" of the clock will increase or decrease accordingly.

Two short beeps will be heard when adjusting the time difference to  $\pm 0$ .

When you release LOCAL TIME SET, the TIME ZONE indicator will disappear and the time difference with UTC will be determined.



- 3** To set the daylight saving time, press DST to display the indicator.

If daylight saving time is not used in your area, daylight saving time is not currently in effect, or is already displayed, proceed to Step 4.

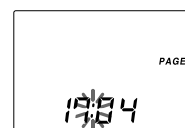
- 4** Hold down LOCAL TIME SET and press  $\leftarrow$  or  $\rightarrow$  to set the local time.

Each time you press  $\leftarrow$  or  $\rightarrow$ , the current time will decrease or increase by a minute. To change the digits rapidly, hold down  $\leftarrow$  or  $\rightarrow$ .

Two short beeps will be heard when adjusting the time to "0:00".

- 5** Release LOCAL TIME SET.

" : " starts flashing and the clock starts running.



### To switch to clock display while the radio is turned on

Press EXE. The display returns to the previous condition automatically after about 10 seconds or when EXE is pressed again. The time display period is extended when the WORLD TIME button is pressed during clock display, or when  $\leftarrow$  or  $\rightarrow$  is pressed during world time display. During clock display, radio operations such as changing frequencies are not possible. The clock will not be displayed during auto scan (page 20) or memory scan (page 24).

### For areas adopting the daylight saving time (summer time)

Press DST to display the indicator if you are now in the summer time period. When the summer time period has ended, press DST to clear the indicator. The time display will be adjusted automatically.

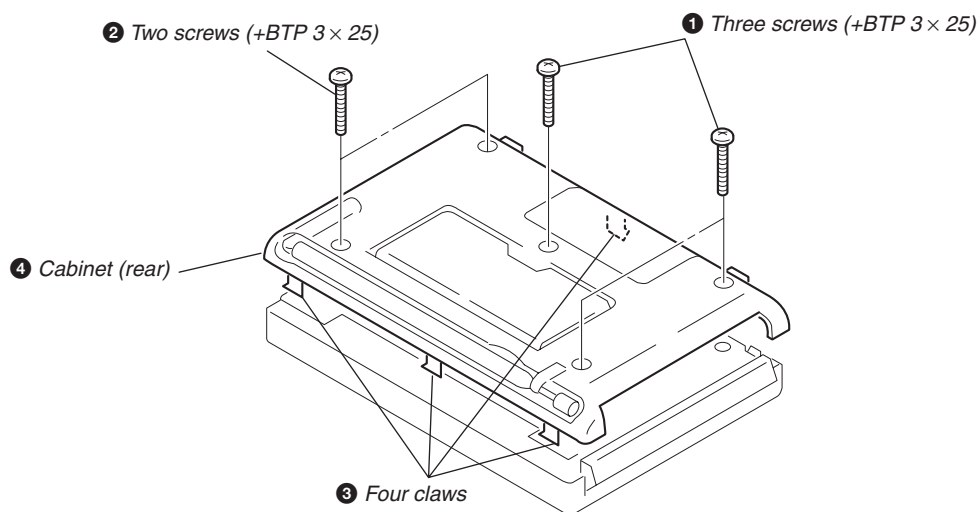
### Tips

- The clock is displayed in the 24 hour system.
- Press LOCAL TIME SET to stop the flashing of "0:00".
- To adjust the time to the second, release LOCAL TIME SET at the time of the tone.

## SECTION 2 DISASSEMBLY

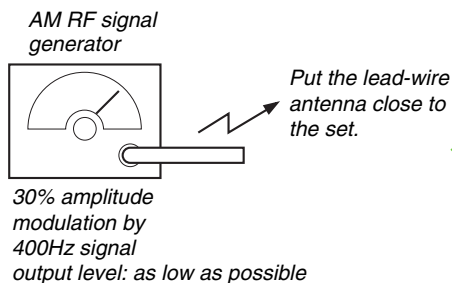
**Note :** Follow the disassembly procedure in the numerical order given.

### 2-1. CABINET (REAR)

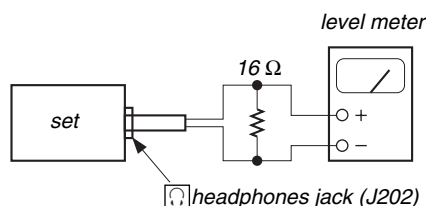
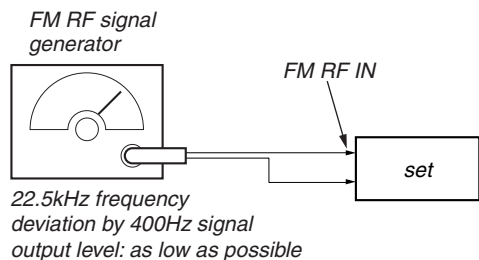


## SECTION 3 ELECTRICAL ADJUSTMENTS

### • AM Section



### • FM Section



### (1) AM / FM VCO Check and Adjustment

#### Setting:

|                  |         |
|------------------|---------|
| [ATT] switch     | : OFF   |
| [TONE] switch    | : MUSIC |
| [AM MODE] switch | : NORM  |

#### Procedure:

1. Connect digital voltmeter to the TP VT.
2. Tune the set to AM 150kHz.
3. Confirm that the reading on the digital voltmeter becomes in more than 2.2V.
4. Tune the set to AM 29999kHz.
5. Confirm that the reading on the digital voltmeter becomes in less than 13V.
6. Tune the set to FM 108.00MHz.
7. Confirm that the reading on the digital voltmeter becomes in less than 13V.
8. IF the value is more than 13V, adjust T202 so that the reading on the digital voltmeter becomes in 12.5V.

**Adjustment Location:** MAIN board (See page 8)

### (2) 1st IF Adjustment

#### Setting :

|                  |         |
|------------------|---------|
| [ATT] switch     | : OFF   |
| [TONE] switch    | : MUSIC |
| [AM MODE] switch | : NORM  |

#### Procedure:

1. Set the frequencies of the AM RF signal generator and the frequency display of the set to AM 150kHz.
2. Adjust T104 and T105 so that the reading on level meter becomes in maximum.

**Adjustment Location:** MAIN board (See page 8)

**(3) 2nd Local Adjustment****Setting:**

$\overline{\text{ATT}}$  switch : OFF  
 $\overline{\text{TONE}}$  switch : MUSIC  
 $\overline{\text{AM MODE}}$  switch : NORM

**Procedure:**

1. Connect frequency counter to the TP OSC2 through the high input impedance amplifier.
2. Tune the set to AM 150kHz.
3. Adjust CT202 so that the reading on the frequency counter becomes in  $55.39000\text{MHz} \pm 30\text{Hz}$ . (55.38997 to 55.39003MHz)

**Adjustment Location:** MAIN board (See page 8)

**(4) FM Tracking Adjustment****Setting:**

$\overline{\text{ATT}}$  switch : OFF  
 $\overline{\text{TONE}}$  switch : MUSIC

**Procedure:**

1. Set the frequency of the FM RF signal generator and the frequency display of the set to FM 108.00MHz.
2. Adjust CT101 and CT102 so that the reading on level meter becomes in maximum.
3. Set the frequency of the FM RF and the frequency display of the set to FM 76.00MHz.
4. Adjust T101 and T102 so that the reading on level meter becomes in maximum.
5. Repeat the above steps 1 to 4 several times.

**Adjustment Location:** MAIN board (See page 8)

**(5) 76kHz (MPX) Adjustment****Setting:**

$\overline{\text{ATT}}$  switch : OFF  
 $\overline{\text{TONE}}$  switch : MUSIC

**Procedure:**

1. Insert Headphones plug into headphones jack (J202) (for VCO operation).
2. Connect a capacitor (10 $\mu$ F) between IC202 pin① and GND.
3. Connect frequency counter to the TP 76K (VCO) through the high input impedance amplifier.
4. Tune the set to FM 108.00MHz.
5. Adjust RV203 so that the reading on the frequency counter becomes in  $76\text{kHz} \pm 300\text{Hz}$ .
6. Remove the headphones plug.

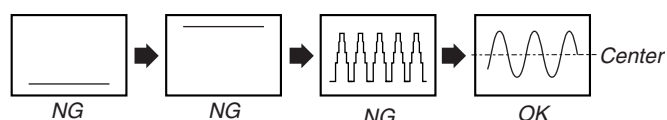
**Adjustment Location:** MAIN board (See page 8)

**(6) Just Tune Adjustment****Setting :**

$\overline{\text{ATT}}$  switch : OFF  
 $\overline{\text{TONE}}$  switch : MUSIC  
 (FM RF signal generator)  
 Frequency : 93.025MHz  
 Moduration : 22.5kHz  
 Output level : 54dB

**Procedure:**

1. Connect an oscilloscope to the TP SD.
2. Tune the set to FM 93.00MHz.
3. Adjust RV202 so that the waveform on the oscilloscope satisfy as shown the figure.



**Adjustment Location:** MAIN board (See page 8)

**(7) SSB 0 Beat Adjustment****Setting :**

$\overline{\text{ATT}}$  switch : OFF  
 $\overline{\text{TONE}}$  switch : MUSIC  
 (AM RF signal generator)  
 Frequency : AM 150kHz  
 Moduration : None  
 Output level : 44dB

**Procedure:**

1. Connect an oscilloscope to the TP DET.
2. Tune the set to AM 150kHz.
3. Set the  $\overline{\text{AM MODE}}$  switch to SYNC.
4. Set the  $\overline{\text{SYNC}}$  switch to USB.
5. Adjust CT201 so that the waveform on the oscilloscope is minimized.
6. Set the  $\overline{\text{SYNC}}$  switch to LSB.
7. Adjust CT201 so that the waveform on the oscilloscope is minimized.
8. Repeat the above steps 4 to 7 several times.
9. Set the  $\overline{\text{AM MODE}}$  switch to SSB.
10. Confirm that the beat sound is changed by turning the  $\overline{\text{SSB FINE TUNE}}$  control.

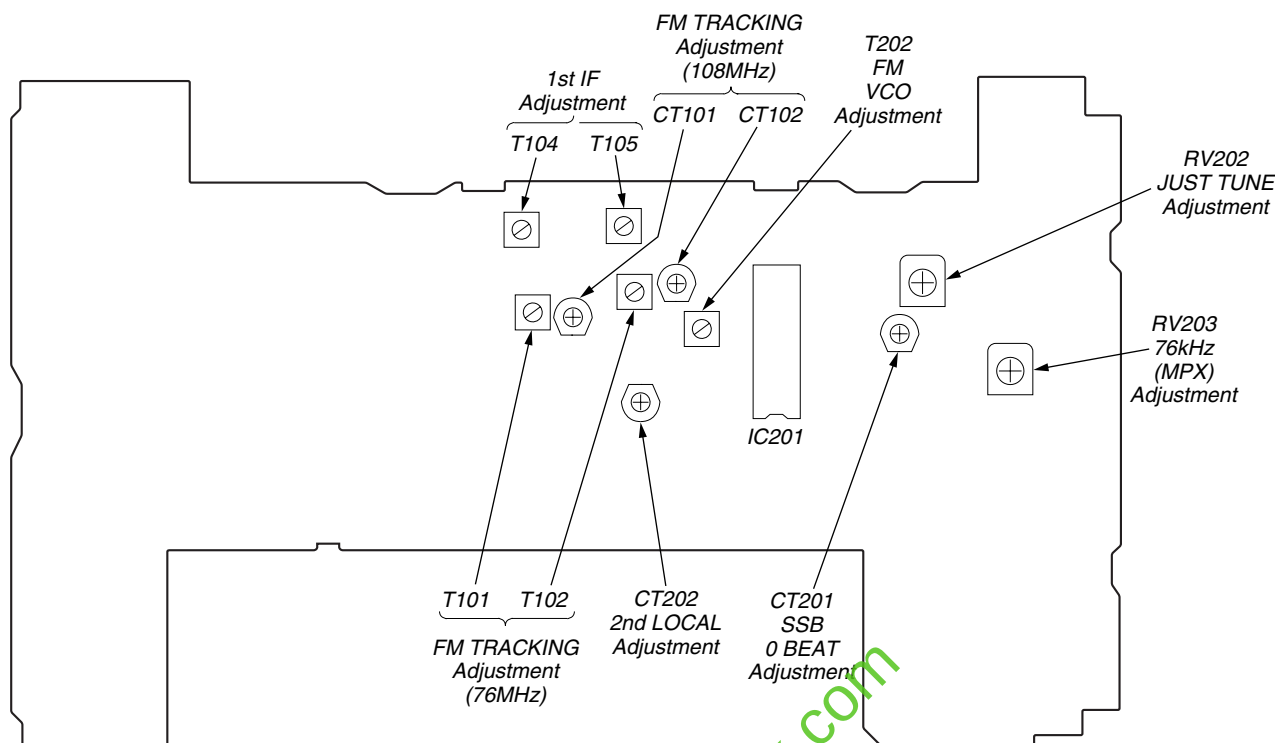
**Adjustment Location:** MAIN board (See page 8)



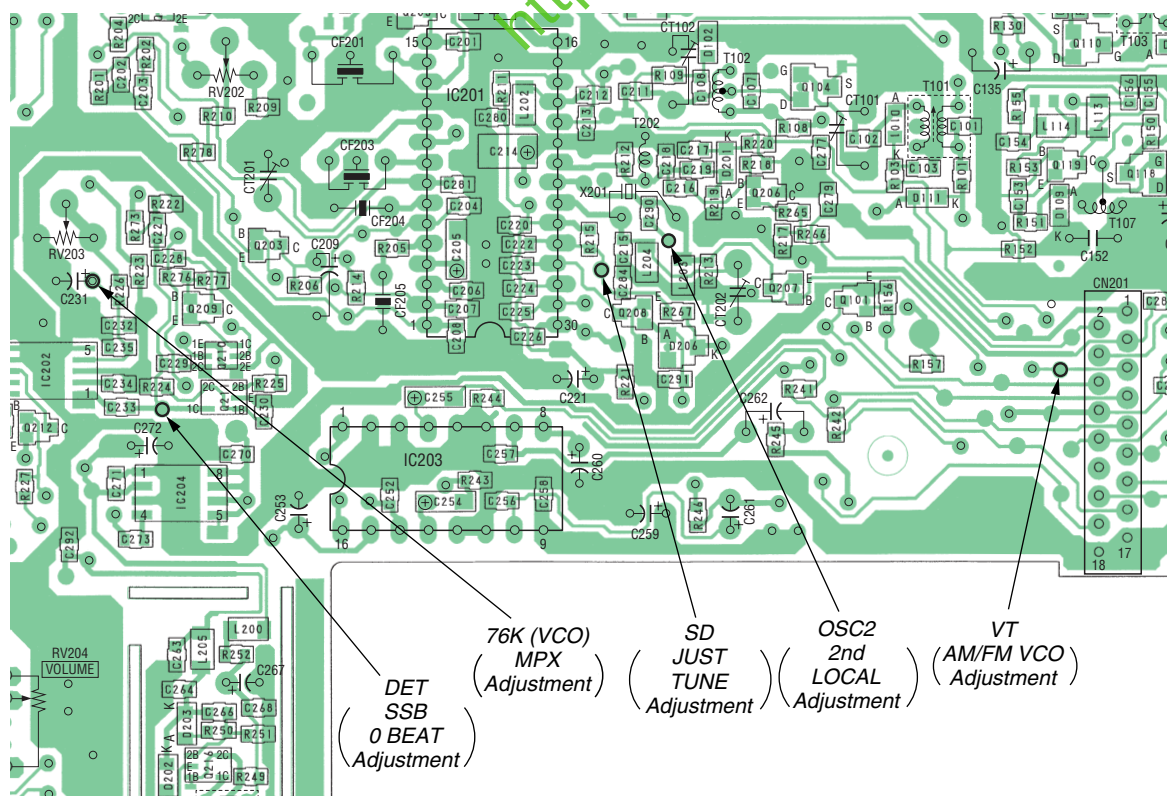
# ICF-SW7600GR

## Adjustment Location :

[MAIN BOARD] — Component Side —



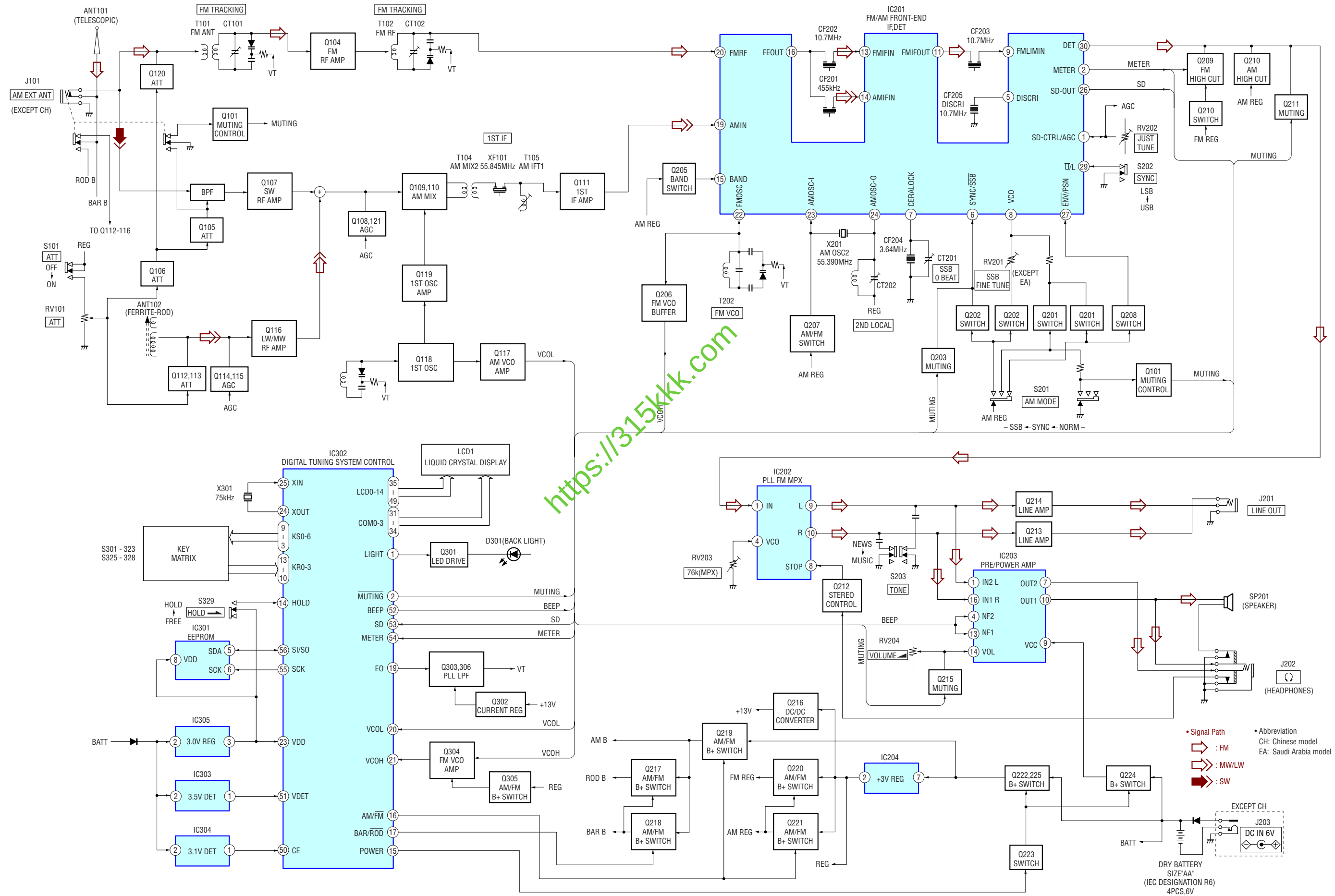
[MAIN BOARD] — Conductor Side —



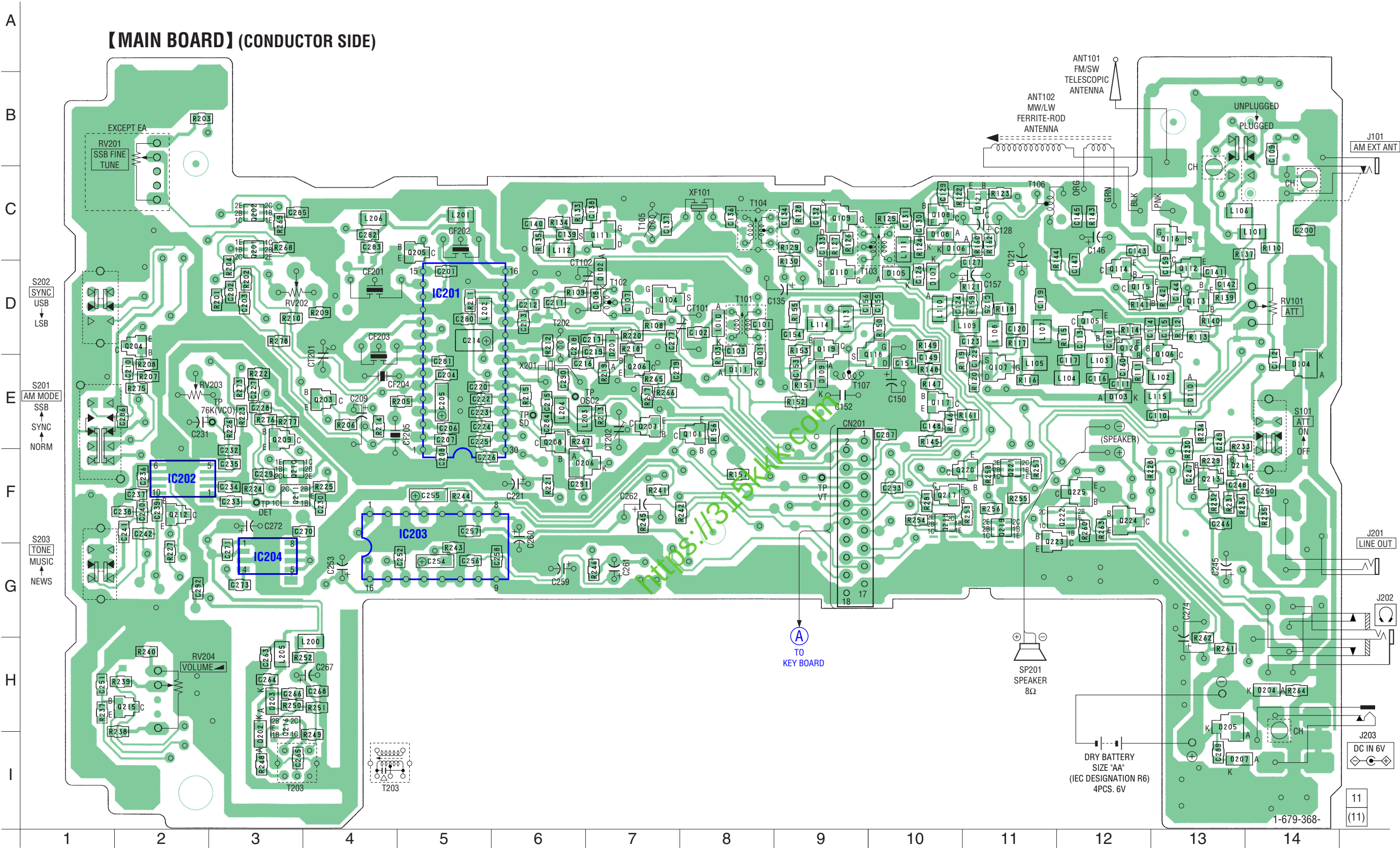


SECTION 4  
DIAGRAMS

4-1. BLOCK DIAGRAM



4-2. PRINTED WIRING BOARD – MAIN BOARD (CONDUCTOR SIDE) –



• Semiconductor Location

| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| D101     | D-8      | D110     | E-13     | IC201    | D-5      | Q107     | E-11     | Q116     | C-13     | Q204     | D-2      | Q213     | F-13     | Q222     | F-12     |
| D102     | D-7      | D111     | E-8      | IC202    | F-2      | Q108     | C-10     | Q117     | E-10     | Q205     | C-5      | Q214     | F-13     | Q223     | F-11     |
| D103     | E-12     | D201     | D-7      | IC203    | F-5      | Q109     | C-9      | Q118     | D-10     | Q206     | E-7      | Q215     | H-2      | Q224     | F-12     |
| D104     | E-14     | D202     | I-3      | IC204    | G-3      | Q110     | D-9      | Q119     | D-9      | Q207     | E-7      | Q216     | H-3      | Q225     | F-12     |
| D105     | D-10     | D203     | H-3      |          |          | Q111     | C-7      | Q120     | D-12     | Q208     | E-6      | Q217     | F-10     |          |          |
| D106     | C-10     | D204     | H-14     | Q101     | E-8      | Q112     | D-13     | Q121     | C-11     | Q209     | E-3      | Q218     | F-10     |          |          |
| D107     | D-10     | D205     | H-13     | Q104     | D-7      | Q113     | D-13     | Q201     | C-3      | Q210     | F-3      | Q219     | F-11     |          |          |
| D108     | D-10     | D206     | F-6      | Q105     | D-12     | Q114     | D-12     | Q202     | C-3      | Q211     | F-3      | Q220     | F-11     |          |          |
| D109     | E-9      | D207     | I-14     | Q106     | D-13     | Q115     | D-12     | Q203     | E-4      | Q212     | F-2      | Q221     | F-11     |          |          |

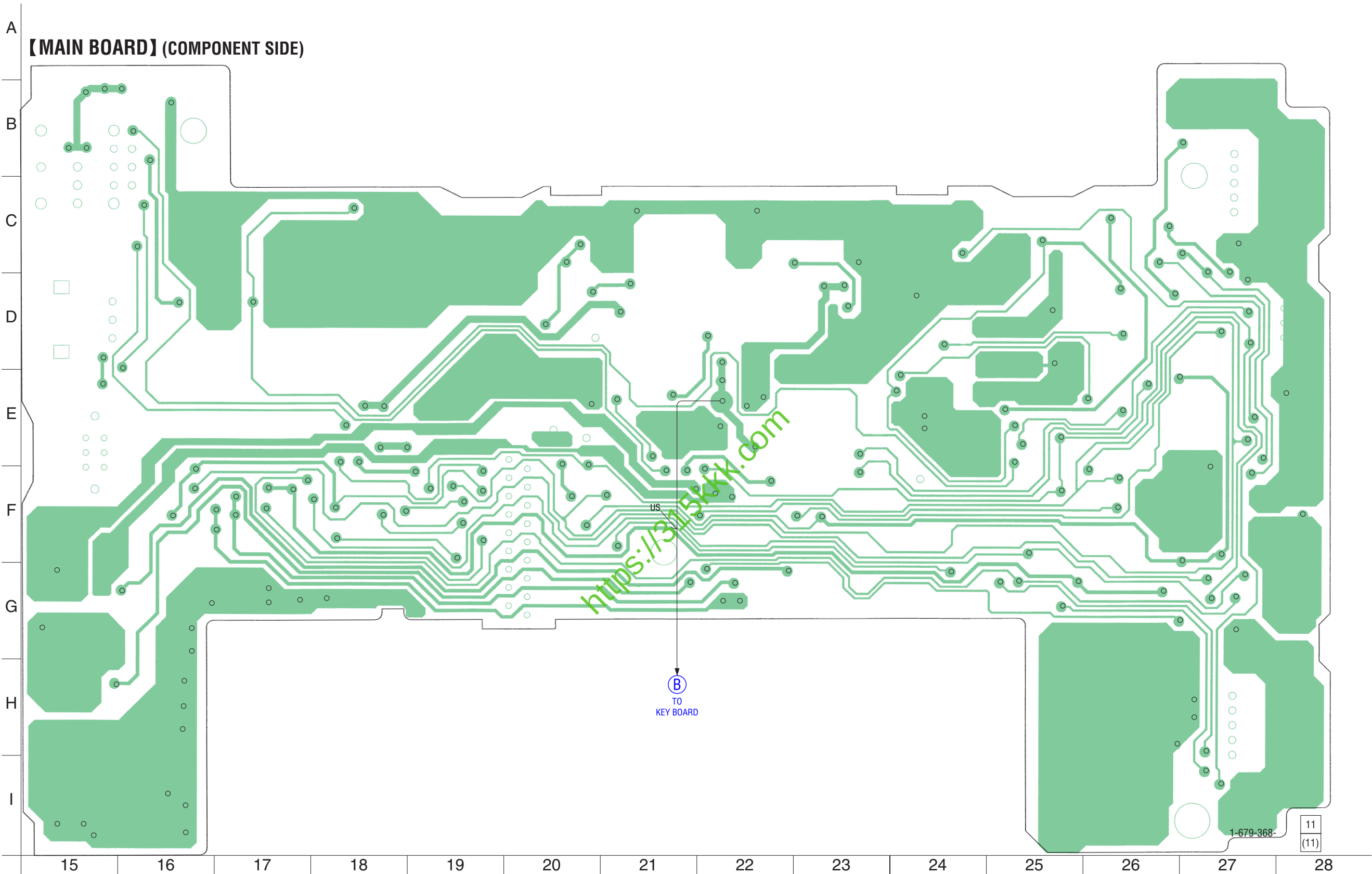
Note on Printed Wiring Boards:

- : parts extracted from the component side.
- : Through hole.
- Pattern from the side which enables seeing.  
(The other layers' patterns are not indicated.)

- Abbreviation
- CH : Chinese model.
- EA : Saudi Arabia model.

Caution:  
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.  
Parts face side: Parts on the parts face side seen from the parts face are indicated.

4-3. PRINTED WIRING BOARD – MAIN BOARD (COMPONENT SIDE) –



**Note on Printed Wiring Boards:**

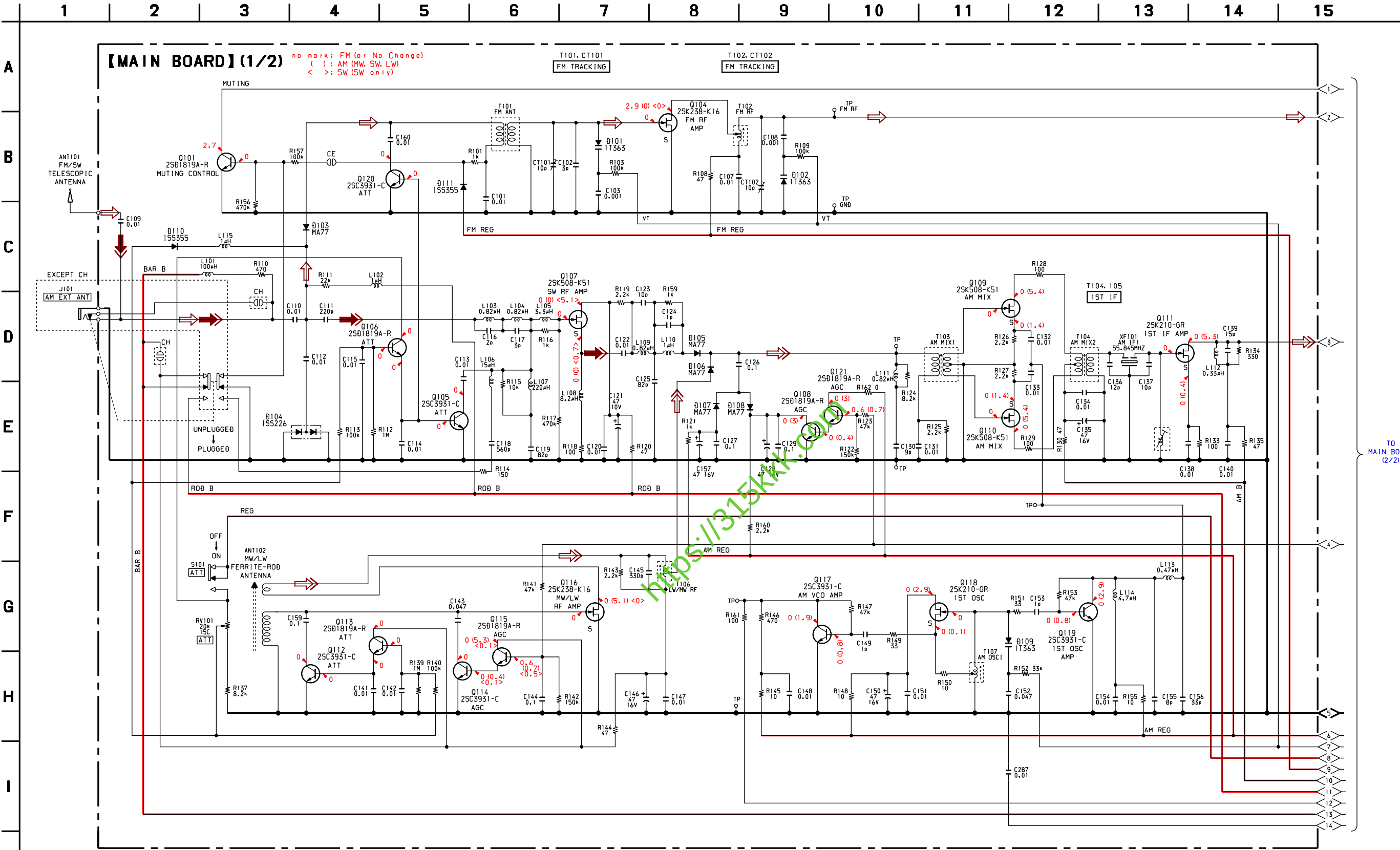
- — : parts extracted from the component side.
- ○ : Through hole.
- ■ : Pattern from the side which enables seeing.  
(The other layers' patterns are not indicated.)

**Caution:**

|                                        |                                                                          |
|----------------------------------------|--------------------------------------------------------------------------|
| Pattern face side:<br>(Conductor Side) | Parts on the pattern face side seen from the pattern face are indicated. |
| Parts face side:<br>(Component Side)   | Parts on the parts face side seen from the parts face are indicated.     |



4-4. SCHEMATIC DIAGRAM – MAIN BOARD (1/2) –

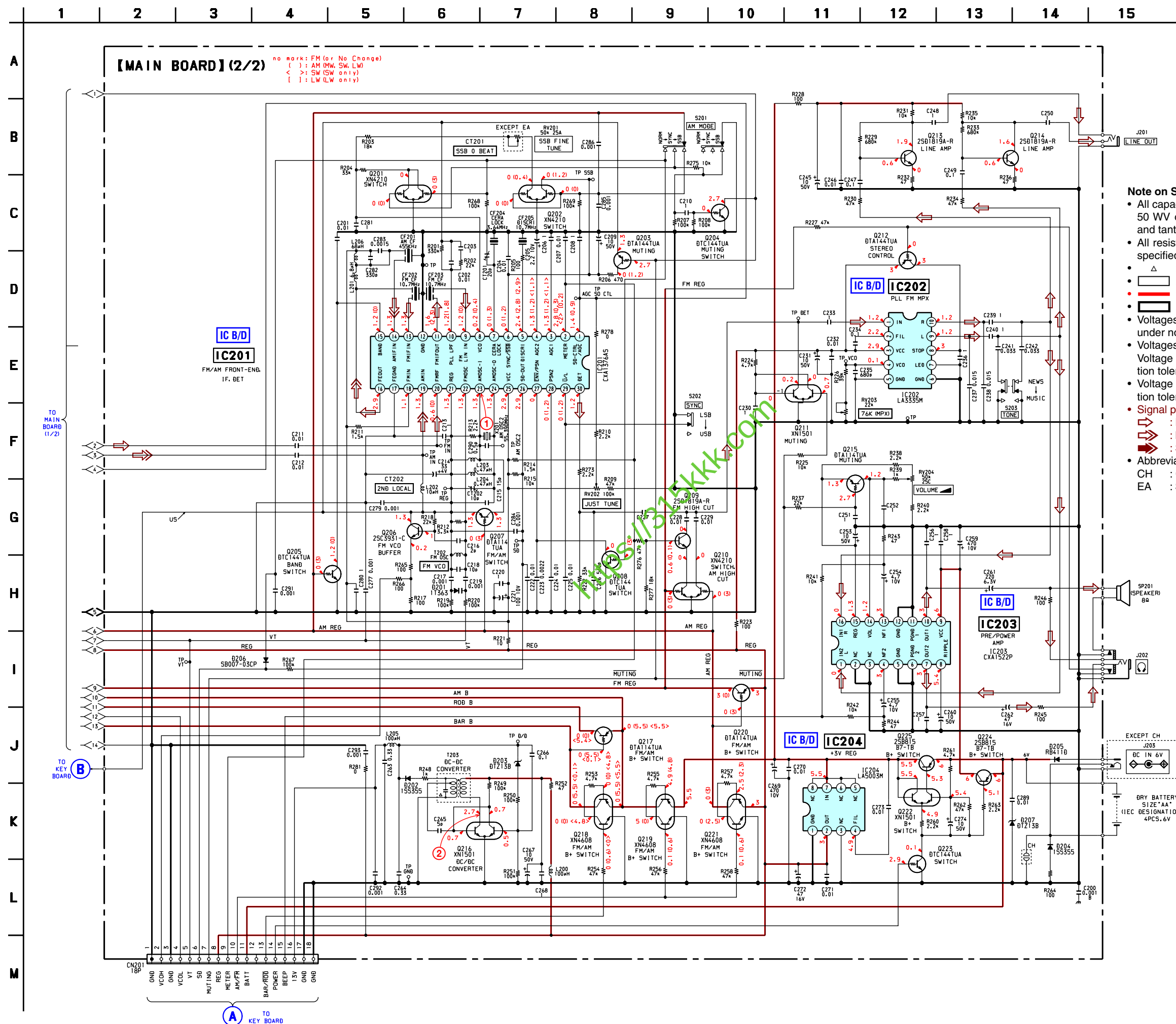


**Note on Schematic Diagram:**

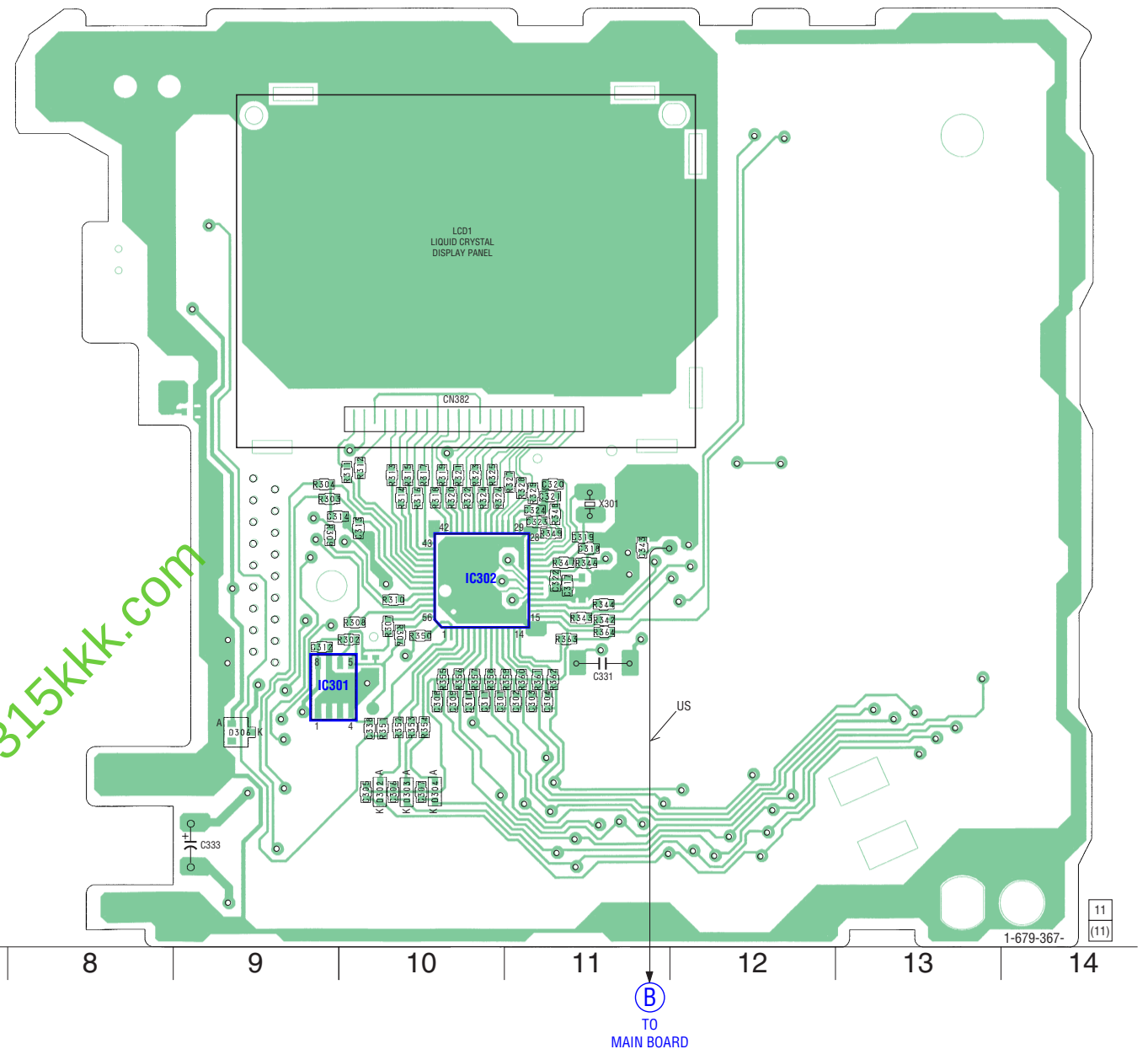
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- : panel designation.
- — : B+ Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance  $10\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Voltage variations may be noted due to normal production tolerances.
- Signal path.
  - : FM
  - : MW/LW
  - : SW
- Abbreviation  
CH : Chinese model

## 4-5. SCHEMATIC DIAGRAM – MAIN BOARD (2/2) –

• Refer to page 16 for IC Block Diagrams.



### 【KEY BOARD】(COMPONENT SIDE)

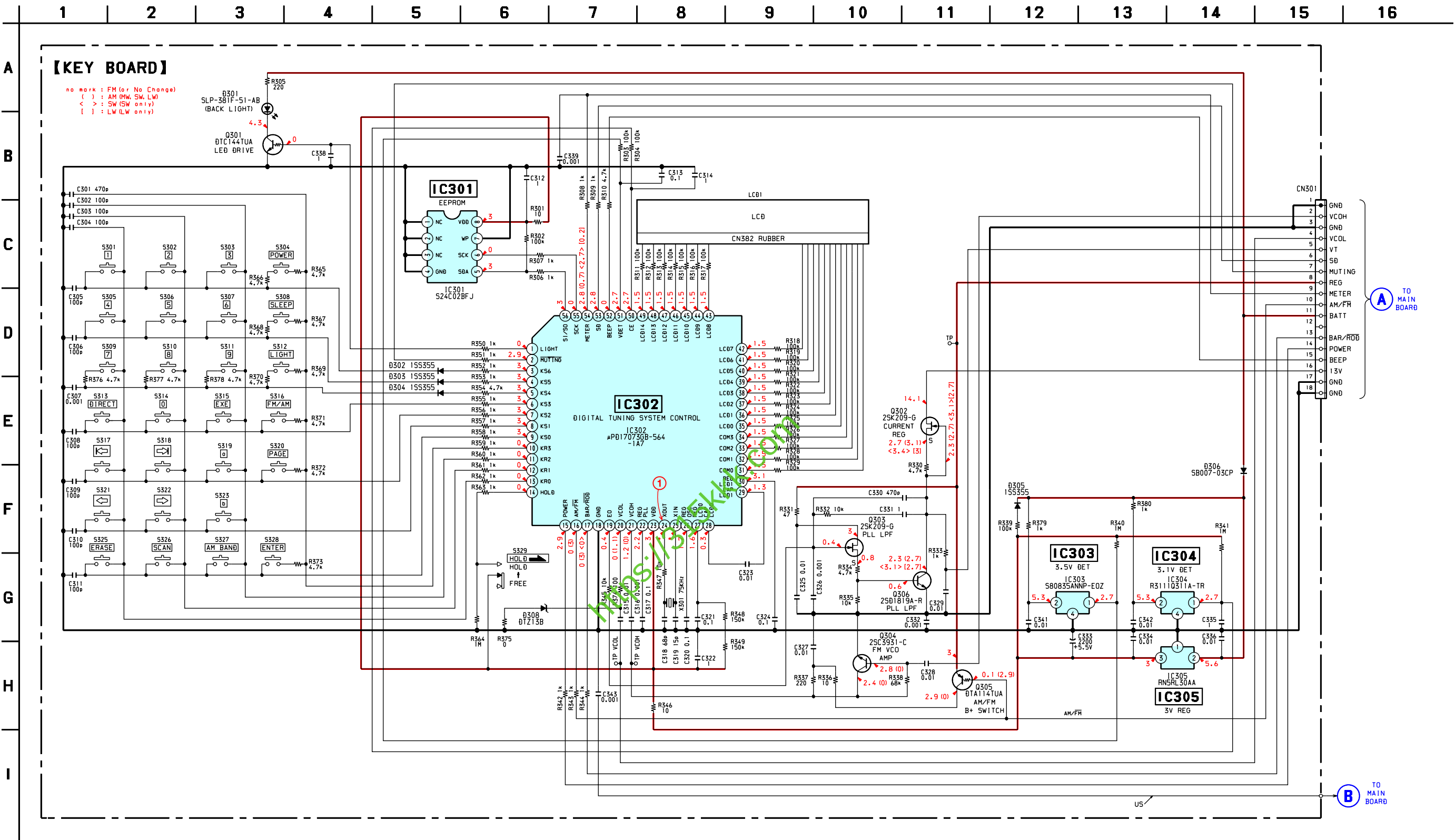


| Ref. No. | Location |
|----------|----------|
| D301     | B-6      |
| D302     | F-10     |
| D303     | F-10     |
| D304     | F-10     |
| D305     | E-6      |
| D306     | E-9      |
| D308     | E-4      |
| IC301    | E-9      |
| IC302    | D-10     |
| IC303    | E-5      |
| IC304    | F-6      |
| IC305    | E-6      |
| Q301     | B-6      |
| Q302     | E-4      |
| Q303     | E-4      |
| Q304     | D-4      |
| Q305     | D-4      |
| Q306     | E-3      |

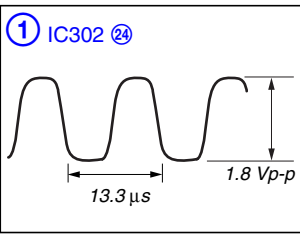
|                                        |                                                                          |
|----------------------------------------|--------------------------------------------------------------------------|
| Caution:                               |                                                                          |
| Pattern face side:<br>(Conductor Side) | Parts on the pattern face side seen from the pattern face are indicated. |
| Parts face side:<br>(Component Side)   | Parts on the parts face side seen from the parts face are indicated.     |

4-7. SCHEMATIC DIAGRAM – KEY BOARD –

• Refer to page 16 for IC Pin Function.



• WAVEFORM



Note on Schematic Diagram:

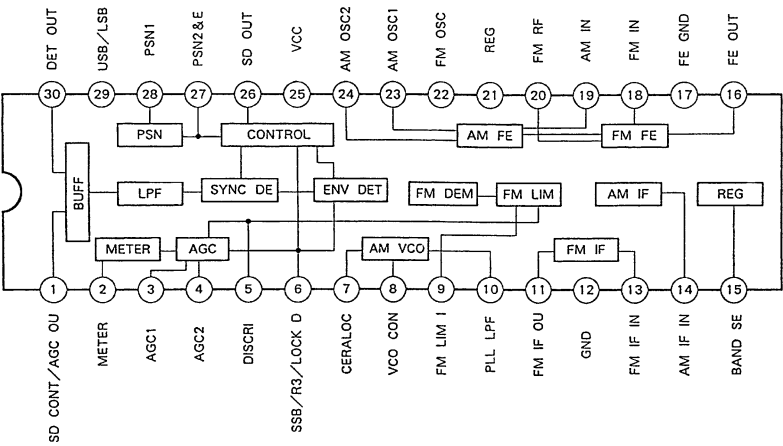
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- : panel designation.
- — : B+ Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance  $10\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
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- Abbreviation  
CH : Chinese model



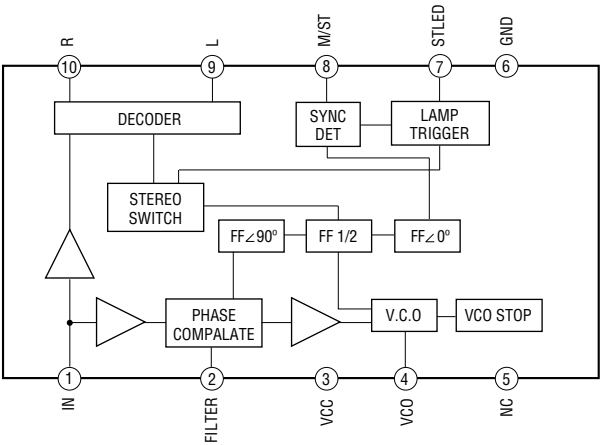
ICF-SW7600GR

• IC BLOCK DIAGRAMS

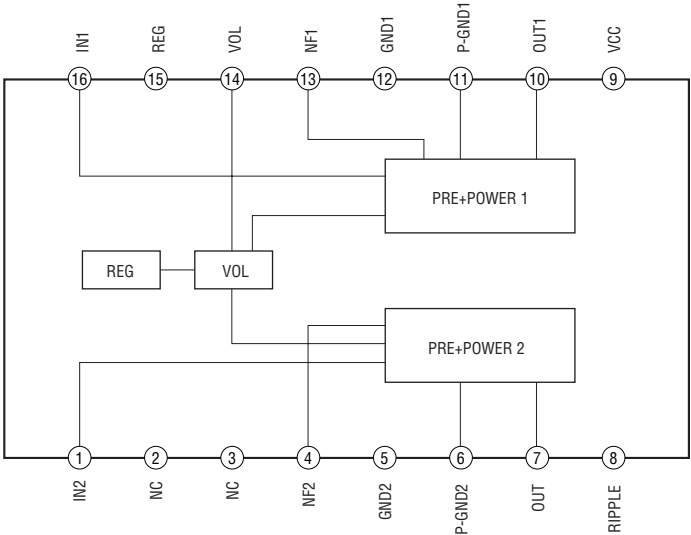
IC201 CXA1376AS



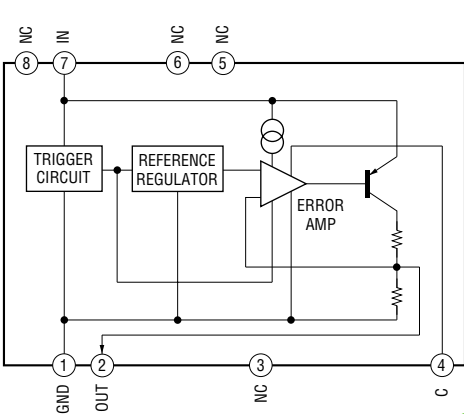
IC202 LA3335M



IC203 CXA1522P



IC204 LA5003M



4-8. IC PIN FUNCTION DESCRIPTION

• IC302  $\mu$ PD17073GB-564-1A7 (DIGITAL TUNING SYSTEM CONTROL)

| Pin No. | Pin Name  | I/O | Description                                           |
|---------|-----------|-----|-------------------------------------------------------|
| 1       | LIGHT     | O   | Light control signal output                           |
| 2       | MUTING    | O   | Muting signal output                                  |
| 3       | KS6       | O   | Key source signal output                              |
| 4       | KS5       | O   | Key source signal output                              |
| 5       | KS4       | O   | Key source signal output                              |
| 6       | KS3       | O   | Key source signal output                              |
| 7       | KS2       | O   | Key source signal output                              |
| 8       | KS1       | O   | Key source signal output                              |
| 9       | KS0       | O   | Key source signal output                              |
| 10      | KR3       | I   | Key return signal input                               |
| 11      | KR2       | I   | Key return signal input                               |
| 12      | KR1       | I   | Key return signal input                               |
| 13      | KR0       | I   | Key return signal input                               |
| 14      | HOLD      | I   | Key input protect switch signal input                 |
| 15      | POWER     | O   | Radio power control signal output                     |
| 16      | AM/FM     | O   | AM/FM select signal output                            |
| 17      | BAR/ROD   | O   | Bar/Rod antenna select signal output                  |
| 18      | GND       | –   | Ground                                                |
| 19      | EO        | O   | Error signal output                                   |
| 20      | VCOL      | I   | AM VCO (local oscillation) frequency input            |
| 21      | VCOH      | I   | FM VCO (local oscillation) frequency input            |
| 22      | REG PLL   | O   | Output of PLL voltage regulator                       |
| 23      | VDD       | –   | Power supply (+3V)                                    |
| 24      | XOUT      | O   | Pin for connecting crystal resonator for system clock |
| 25      | XIN       | I   | Pin for connecting crystal resonator for system clock |
| 26      | REG OSC   | O   | Output of voltage regulator for oscillation circuit   |
| 27      | REG LCD0  | O   | LCD drive voltage output                              |
| 28      | CAP LCD0  | –   | Pin for capacitor connection for LCD drive voltage    |
| 29      | CAP LCD1  | –   | Pin for capacitor connection for LCD drive voltage    |
| 30      | REG LCD1  | O   | LCD drive voltage output                              |
| 31 - 34 | COM0 - 3  | O   | LCD common signal output                              |
| 35 - 49 | LCD0 - 14 | O   | LCD segment signal output                             |
| 50      | CE        | I   | Chip select enable input                              |
| 51      | VDET      | I   | Low voltage detect signal input                       |
| 52      | BEEP      | O   | BEEP signal output                                    |
| 53      | SD        | I   | Signal detector signal input                          |
| 54      | METER     | I   | Reception level signal input                          |
| 55      | SCK       | O   | Serial clock output for EEPROM                        |
| 56      | SI/SO     | I/O | Serial data input or output for EEPROM                |

## SECTION 5 EXPLODED VIEWS

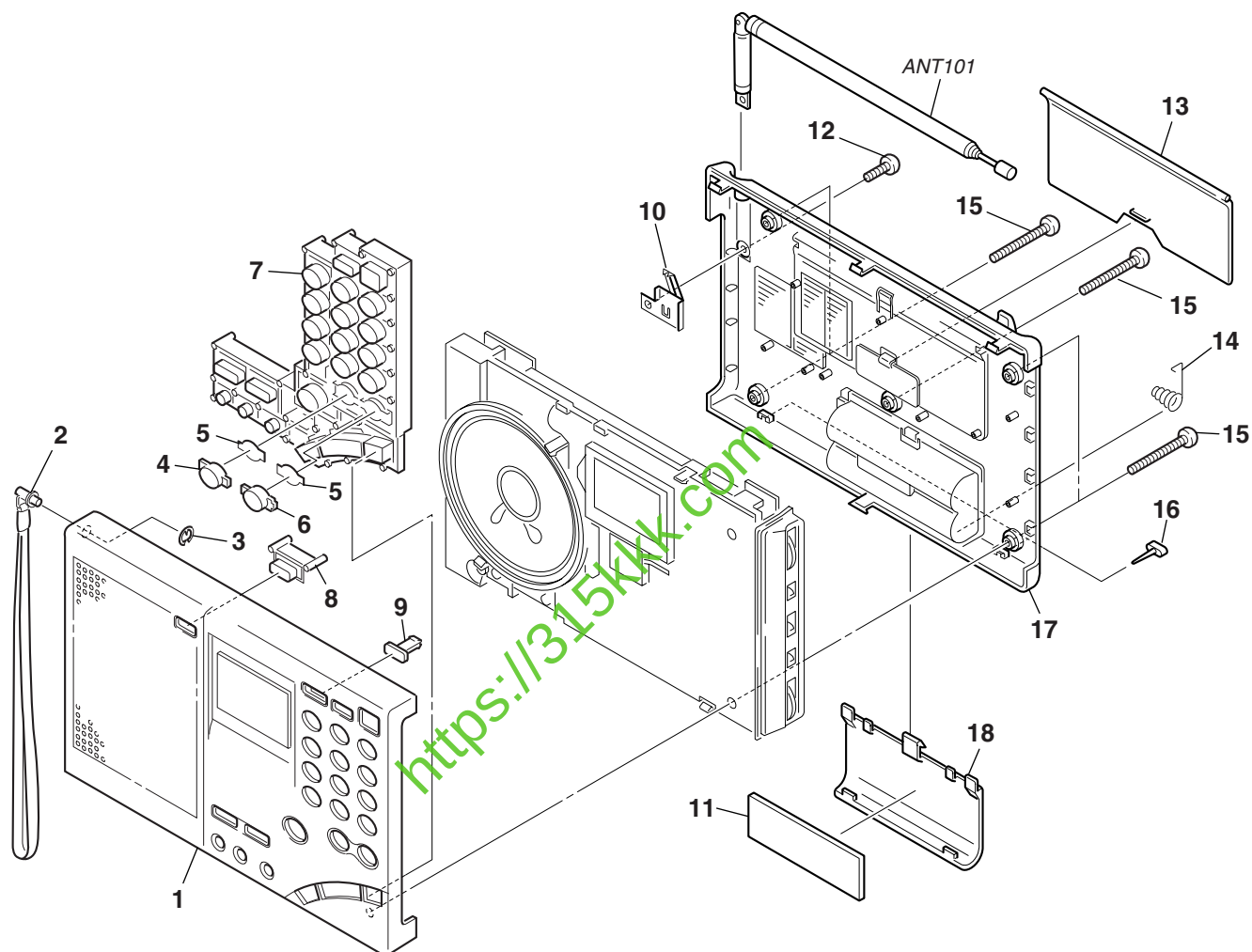
### NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

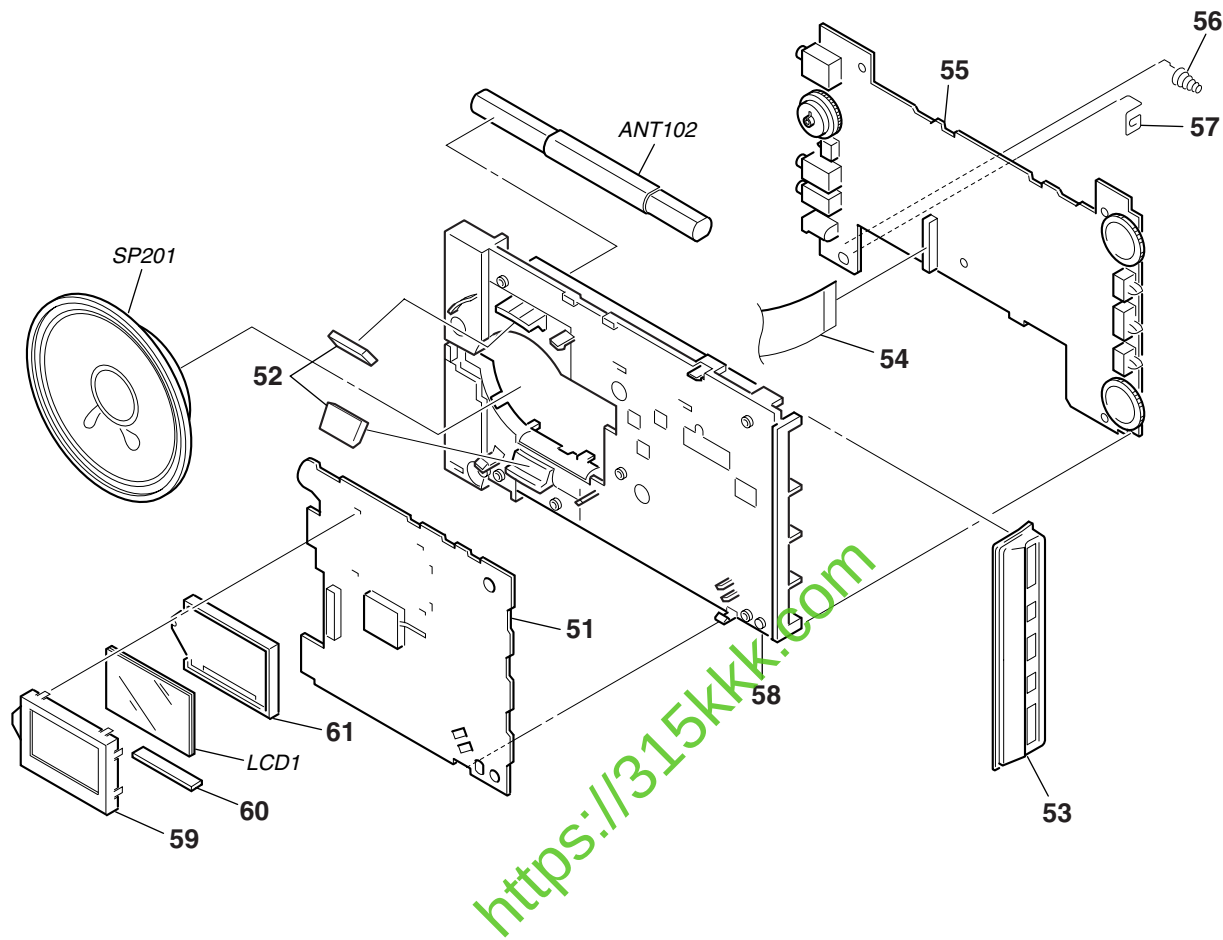
- Abbreviation  
CH : Chinese model  
CND : Canadian model  
EA : Saudi Arabia model

### 5-1. CABINET SECTION



| Ref. No. | Part No.     | Description                       | Remarks | Ref. No. | Part No.     | Description                | Remarks |
|----------|--------------|-----------------------------------|---------|----------|--------------|----------------------------|---------|
| 1        | X-3380-592-1 | CABINET (FRONT) ASSY (EXCEPT CND) |         | 11       | 3-893-852-01 | CUSHION (BATTERY CASE LID) |         |
| 1        | X-3380-593-1 | CABINET (FRONT) ASSY (CND)        |         | 12       | 3-918-696-01 | SCREW (M3X6 LOCK ACE)      |         |
| 2        | 3-881-938-00 | STRAP, HAND                       |         | 13       | 3-227-402-01 | STAND                      |         |
| 3        | 7-624-104-04 | STOP RING 2.0, TYPE -E            |         | 14       | 3-227-403-01 | TERMINAL (+/-), BATTERY    |         |
| 4        | 3-227-386-01 | BUTTON (PAGE)                     |         | 15       | 7-685-152-19 | SCREW +BTP 3X25 TYPE2 N-S  |         |
| 5        | 3-227-387-01 | SHEET (BUTTON), ADHESIVE          |         | 16       | 3-893-846-01 | FOOT, RUBBER               |         |
| 6        | 3-227-385-01 | BUTTON (SCAN)                     |         | 17       | 3-227-400-01 | CABINET (REAR) (EXCEPT CH) |         |
| 7        | 3-227-384-01 | BUTTON (10 KEY)                   |         | 17       | 3-227-400-11 | CABINET (REAR) (CH)        |         |
| 8        | 3-227-388-01 | BUTTON (LIGHT)                    |         | 18       | 3-227-404-01 | LID, BATTERY CASE          |         |
| 9        | 3-227-405-01 | KNOB (HOLD)                       |         | ANT101   | 1-501-712-11 | ANTENNA, TELESCOPIC        |         |
| 10       | 3-227-401-01 | PLATE (ANT), CONTACT              |         |          |              |                            |         |

5-2. CHASSIS SECTION



| Ref. No. | Part No.     | Description                         | Remarks | Ref. No. | Part No.     | Description                   | Remarks |
|----------|--------------|-------------------------------------|---------|----------|--------------|-------------------------------|---------|
| * 51     | A-4440-289-A | KEY BOARD, COMPLETE                 |         | 57       | 3-227-396-01 | TERMINAL (+), BATTERY         |         |
| 52       | 4-910-502-01 | CUSHION, ANTENNA                    |         | 58       | 3-227-392-01 | CHASSIS                       |         |
| 53       | 3-227-395-01 | PANEL (SIDE) (EXCEPT EA)            |         | * 59     | 3-227-389-01 | HOLDER (LCD)                  |         |
| 53       | 3-227-395-11 | PANEL (SIDE) (EA)                   |         | * 60     | 1-694-751-11 | CONDUCTIVE BOARD, CONNECTION  |         |
| 54       | 1-757-510-11 | WIRE (FLAT TYPE) (18 CORE)          |         | * 61     | 3-227-390-01 | CASE (LCD)                    |         |
| * 55     | A-4440-288-A | MAIN BOARD, COMPLETE (EXCEPT CH,EA) |         | ANT102   | 1-402-479-21 | ANTENNA, FERRITE-ROD (LW/MW)  |         |
| * 55     | A-4440-290-A | MAIN BOARD, COMPLETE (EA)           |         | LCD1     | 1-804-194-11 | DISPLAY PANEL, LIQUID CRYSTAL |         |
| * 55     | A-4440-291-A | MAIN BOARD, COMPLETE (CH)           |         | SP201    | 1-529-942-11 | SPEAKER (7.7cm)               |         |
| 56       | 3-227-397-01 | TERMINAL (-), BATTERY               |         |          |              |                               |         |

## SECTION 6 ELECTRICAL PARTS LIST

**KEY****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, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:  
uF:  $\mu$ F
- RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable

- COILS  
uH:  $\mu$ H
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...,  $\mu$ A..., uPA...,  $\mu$ PA...,  
uPB...,  $\mu$ PB..., uPC...,  $\mu$ PC...,  
uPD...,  $\mu$ PD...
- Abbreviation  
CH : Chinese model  
CND : Canadian model  
EA : Saudi Arabia model  
JE : Tourist model  
SP : Singapore model

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

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

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No.     | Description                  | Remarks   | Ref. No. | Part No.     | Description                   | Remarks |
|----------|--------------|------------------------------|-----------|----------|--------------|-------------------------------|---------|
| *        | A-4440-289-A | KEY BOARD, COMPLETE<br>***** |           | C336     | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%       | 25V     |
|          |              |                              |           | C338     | 1-115-156-11 | CERAMIC CHIP 1uF              | 10V     |
|          |              |                              |           | C339     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10%      | 50V     |
| *        | 1-694-751-11 | CONDUCTIVE BOARD, CONNECTION |           | C341     | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%       | 25V     |
| *        | 3-227-389-01 | HOLDER (LCD)                 |           | C342     | 1-162-970-11 | CERAMIC CHIP 0.01uF 10%       | 25V     |
| *        | 3-227-390-01 | CASE (LCD)                   |           |          |              |                               |         |
|          |              | < CAPACITOR >                |           | C343     | 1-162-964-11 | CERAMIC CHIP 0.001uF 10%      | 50V     |
| C301     | 1-164-315-11 | CERAMIC CHIP 470PF           | 5.00% 50V |          |              | < CONNECTOR >                 |         |
| C302     | 1-162-927-11 | CERAMIC CHIP 100PF           | 5% 50V    | * CN301  | 1-691-077-21 | HOUSING, CONNECTOR 18P        |         |
| C303     | 1-162-927-11 | CERAMIC CHIP 100PF           | 5% 50V    |          |              | < DIODE >                     |         |
| C304     | 1-162-927-11 | CERAMIC CHIP 100PF           | 5% 50V    | D301     | 8-719-980-90 | DIODE SLP-381F-51-AB          |         |
| C305     | 1-162-927-11 | CERAMIC CHIP 100PF           | 5% 50V    | D302     | 8-719-988-61 | DIODE 1SS355TE-17             |         |
| C306     | 1-162-927-11 | CERAMIC CHIP 100PF           | 5% 50V    | D303     | 8-719-988-61 | DIODE 1SS355TE-17             |         |
| C307     | 1-162-964-11 | CERAMIC CHIP 0.001uF         | 10% 50V   | D304     | 8-719-988-61 | DIODE 1SS355TE-17             |         |
| C308     | 1-162-927-11 | CERAMIC CHIP 100PF           | 5% 50V    | D305     | 8-719-988-61 | DIODE 1SS355TE-17             |         |
| C309     | 1-162-927-11 | CERAMIC CHIP 100PF           | 5% 50V    |          |              |                               |         |
| C310     | 1-162-927-11 | CERAMIC CHIP 100PF           | 5% 50V    | D306     | 8-719-941-04 | DIODE SB007-03CP              |         |
| C311     | 1-162-927-11 | CERAMIC CHIP 100PF           | 5% 50V    | D308     | 8-719-977-40 | DIODE DTZ13B                  |         |
| C312     | 1-115-156-11 | CERAMIC CHIP 1uF             | 10V       |          |              | < IC >                        |         |
| C313     | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V       | IC301    | 8-759-679-18 | IC S-24C02BFJ-TB              |         |
| C314     | 1-115-156-11 | CERAMIC CHIP 1uF             | 10V       | IC302    | 6-800-111-01 | IC uPD17073GB-564-1A7         |         |
| C315     | 1-162-970-11 | CERAMIC CHIP 0.01uF          | 10% 25V   | IC303    | 8-759-549-49 | IC S-80835ANNP-EDZ-T2         |         |
| C316     | 1-162-964-11 | CERAMIC CHIP 0.001uF         | 10% 50V   | IC304    | 8-759-676-76 | IC R3111Q311A-TR              |         |
| C317     | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V       | IC305    | 8-759-492-58 | IC RN5RL30AA-TL               |         |
| C318     | 1-162-925-11 | CERAMIC CHIP 68PF            | 5.00% 50V |          |              | < LIQUID CRYSTAL DISPLAY >    |         |
| C319     | 1-162-917-11 | CERAMIC CHIP 15PF            | 5% 50V    | LCD1     | 1-804-194-11 | DISPLAY PANEL, LIQUID CRYSTAL |         |
| C320     | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V       |          |              | < TRANSISTOR >                |         |
| C321     | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V       | Q301     | 8-729-028-97 | TRANSISTOR DTC114TUA-T106     |         |
| C322     | 1-115-156-11 | CERAMIC CHIP 1uF             | 10V       | Q302     | 8-729-220-93 | TRANSISTOR 2SK209-G           |         |
| C323     | 1-162-970-11 | CERAMIC CHIP 0.01uF          | 10% 25V   | Q303     | 8-729-220-93 | TRANSISTOR 2SK209-G           |         |
| C324     | 1-164-156-11 | CERAMIC CHIP 0.1uF           | 25V       | Q304     | 8-729-423-52 | TRANSISTOR 2SC3931-C          |         |
| C325     | 1-162-970-11 | CERAMIC CHIP 0.01uF          | 10% 25V   | Q305     | 8-729-028-92 | TRANSISTOR DTA144TUA-T106     |         |
| C326     | 1-115-416-11 | CERAMIC CHIP 0.001uF         | 5.00% 25V | Q306     | 8-729-402-32 | TRANSISTOR 2SD1819A-R         |         |
| C327     | 1-162-970-11 | CERAMIC CHIP 0.01uF          | 10% 25V   |          |              | < RESISTOR >                  |         |
| C328     | 1-162-970-11 | CERAMIC CHIP 0.01uF          | 10% 25V   | R301     | 1-216-797-11 | METAL CHIP 10 5% 1/16W        |         |
| C329     | 1-162-970-11 | CERAMIC CHIP 0.01uF          | 10% 25V   | R302     | 1-216-845-11 | METAL CHIP 100K 5% 1/16W      |         |
| C330     | 1-164-315-11 | CERAMIC CHIP 470PF           | 5.00% 50V | R303     | 1-216-845-11 | METAL CHIP 100K 5% 1/16W      |         |
| C331     | 1-136-177-00 | FILM 1uF                     | 5.00% 50V | R304     | 1-216-845-11 | METAL CHIP 100K 5% 1/16W      |         |
| C332     | 1-162-964-11 | CERAMIC CHIP 0.001uF         | 10% 50V   |          |              |                               |         |
| C333     | 1-126-166-11 | ELECT 2200uF                 | 5.5V      |          |              |                               |         |
| C334     | 1-162-970-11 | CERAMIC CHIP 0.01uF          | 10% 25V   |          |              |                               |         |
| C335     | 1-115-156-11 | CERAMIC CHIP 1uF             | 10V       |          |              |                               |         |

## KEY

| Ref. No. | Part No.     | Description | Remarks       | Ref. No.     | Part No.     | Description               | Remarks  |
|----------|--------------|-------------|---------------|--------------|--------------|---------------------------|----------|
| R305     | 1-216-813-11 | METAL CHIP  | 220 5% 1/16W  | R362         | 1-216-821-11 | METAL CHIP 1K             | 5% 1/16W |
| R306     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | R363         | 1-216-821-11 | METAL CHIP 1K             | 5% 1/16W |
| R307     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | R364         | 1-216-857-11 | METAL CHIP 1M             | 5% 1/16W |
| R308     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | R365         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R309     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | R366         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R310     | 1-216-829-11 | METAL CHIP  | 4.7K 5% 1/16W | R367         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R311     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R368         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R312     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R369         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R313     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R370         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R314     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R371         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R315     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R372         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R316     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R373         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R317     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R374         | 1-216-809-11 | METAL CHIP 100            | 5% 1/16W |
| R318     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R375         | 1-216-864-11 | SHORT 0                   |          |
| R319     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R376         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R320     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R377         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R321     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R378         | 1-216-829-11 | METAL CHIP 4.7K           | 5% 1/16W |
| R322     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R379         | 1-216-821-11 | METAL CHIP 1K             | 5% 1/16W |
| R323     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | R380         | 1-216-821-11 | METAL CHIP 1K             | 5% 1/16W |
| R324     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | < SWITCH >   |              |                           |          |
| R325     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | S301         | 1-762-196-21 | SWITCH, TACT (1)          |          |
| R326     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | S302         | 1-762-196-21 | SWITCH, TACT (2)          |          |
| R327     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | S303         | 1-762-196-21 | SWITCH, TACT (3)          |          |
| R328     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | S304         | 1-762-196-21 | SWITCH, TACT (POWER)      |          |
| R329     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | S305         | 1-762-196-21 | SWITCH, TACT (4)          |          |
| R330     | 1-216-829-11 | METAL CHIP  | 4.7K 5% 1/16W | S306         | 1-762-196-21 | SWITCH, TACT (5)          |          |
| R331     | 1-216-805-11 | METAL CHIP  | 47 5% 1/16W   | S307         | 1-762-196-21 | SWITCH, TACT (6)          |          |
| R332     | 1-216-833-11 | METAL CHIP  | 10K 5% 1/16W  | S308         | 1-762-196-21 | SWITCH, TACT (SLEEP)      |          |
| R333     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | S309         | 1-762-196-21 | SWITCH, TACT (7)          |          |
| R334     | 1-216-829-11 | METAL CHIP  | 4.7K 5% 1/16W | S310         | 1-762-196-21 | SWITCH, TACT (8)          |          |
| R335     | 1-216-833-11 | METAL CHIP  | 10K 5% 1/16W  | S311         | 1-762-196-21 | SWITCH, TACT (9)          |          |
| R336     | 1-216-797-11 | METAL CHIP  | 10 5% 1/16W   | S312         | 1-762-196-21 | SWITCH, TACT (LIGHT)      |          |
| R337     | 1-216-813-11 | METAL CHIP  | 220 5% 1/16W  | S313         | 1-762-196-21 | SWITCH, TACT (DIRECT)     |          |
| R338     | 1-216-843-11 | METAL CHIP  | 68K 5% 1/16W  | S314         | 1-762-196-21 | SWITCH, TACT (0)          |          |
| R339     | 1-216-845-11 | METAL CHIP  | 100K 5% 1/16W | S315         | 1-762-196-21 | SWITCH, TACT (EXE)        |          |
| R340     | 1-216-857-11 | METAL CHIP  | 1M 5% 1/16W   | S316         | 1-762-196-21 | SWITCH, TACT (FM/AM)      |          |
| R341     | 1-216-857-11 | METAL CHIP  | 1M 5% 1/16W   | S317         | 1-762-196-21 | SWITCH, TACT (K)          |          |
| R342     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | S318         | 1-762-196-21 | SWITCH, TACT (⇌)          |          |
| R343     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | S319         | 1-762-196-21 | SWITCH, TACT (a)          |          |
| R344     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | S320         | 1-762-196-21 | SWITCH, TACT (PAGE)       |          |
| R345     | 1-216-833-11 | METAL CHIP  | 10K 5% 1/16W  | S321         | 1-571-760-11 | SWITCH, KEY BOARD (⇐)     |          |
| R346     | 1-216-797-11 | METAL CHIP  | 10 5% 1/16W   | S322         | 1-571-760-11 | SWITCH, KEY BOARD (⇒)     |          |
| R347     | 1-216-833-11 | METAL CHIP  | 10K 5% 1/16W  | S323         | 1-762-196-21 | SWITCH, TACT (b)          |          |
| R348     | 1-216-847-11 | METAL CHIP  | 150K 5% 1/16W | S325         | 1-762-196-21 | SWITCH, TACT (ERASE)      |          |
| R349     | 1-216-847-11 | METAL CHIP  | 150K 5% 1/16W | S326         | 1-762-196-21 | SWITCH, TACT (SCAN)       |          |
| R350     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | S327         | 1-762-196-21 | SWITCH, TACT (AM BAND)    |          |
| R351     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | S328         | 1-762-196-21 | SWITCH, TACT (ENTER)      |          |
| R352     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | S329         | 1-553-977-00 | SWITCH, SLIDE (HOLD ➡)    |          |
| R353     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | < VIBRATOR > |              |                           |          |
| R354     | 1-216-829-11 | METAL CHIP  | 4.7K 5% 1/16W | X301         | 1-767-517-11 | VIBRATOR, CRYSTAL (75kHz) |          |
| R355     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   | *****        |              |                           |          |
| R356     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   |              |              |                           |          |
| R357     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   |              |              |                           |          |
| R358     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   |              |              |                           |          |
| R359     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   |              |              |                           |          |
| R360     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   |              |              |                           |          |
| R361     | 1-216-821-11 | METAL CHIP  | 1K 5% 1/16W   |              |              |                           |          |



| Ref. No.      | Part No.     | Description                          | Remarks |        |     | Ref. No. | Part No.     | Description   | Remarks  |        |     |
|---------------|--------------|--------------------------------------|---------|--------|-----|----------|--------------|---------------|----------|--------|-----|
| *             | A-4440-288-A | MAIN BOARD, COMPLETE (EXCEPT CH, EA) |         |        |     | C156     | 1-162-921-11 | CERAMIC CHIP  | 33PF     | 5%     | 50V |
| *             | A-4440-290-A | MAIN BOARD, COMPLETE (EA)            |         |        |     | C157     | 1-124-589-11 | ELECT         | 47uF     | 20%    | 16V |
| *             | A-4440-291-A | MAIN BOARD, COMPLETE (CH)            |         |        |     | C159     | 1-164-156-11 | CERAMIC CHIP  | 0.1uF    |        | 25V |
| *****         |              |                                      |         |        |     |          |              |               |          |        |     |
| < CAPACITOR > |              |                                      |         |        |     | C160     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C101          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C200     | 1-162-964-11 | CERAMIC CHIP  | 0.001uF  | 10%    | 50V |
| C102          | 1-162-908-11 | CERAMIC CHIP                         | 3PF     | 0.25PF | 50V | C201     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C103          | 1-115-416-11 | CERAMIC CHIP                         | 0.001uF | 5.00%  | 25V | C202     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C107          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C203     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C108          | 1-115-416-11 | CERAMIC CHIP                         | 0.001uF | 5.00%  | 25V | C204     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C109          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C205     | 1-104-915-11 | TANTALUM CHIP | 2.2uF    | 20%    | 10V |
| C110          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C206     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C111          | 1-164-230-11 | CERAMIC CHIP                         | 220PF   | 5.00%  | 50V | C207     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C112          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C208     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C113          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C209     | 1-124-261-00 | ELECT         | 10uF     | 20%    | 50V |
| C114          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C210     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C115          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C211     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C116          | 1-162-907-11 | CERAMIC CHIP                         | 2PF     | 0.25PF | 50V | C212     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C117          | 1-162-908-11 | CERAMIC CHIP                         | 3PF     | 0.25PF | 50V | C213     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C118          | 1-164-739-11 | CERAMIC CHIP                         | 560PF   | 5.00%  | 50V | C214     | 1-104-752-11 | TANTAL. CHIP  | 33uF     | 20.00% | 4V  |
| C119          | 1-162-926-11 | CERAMIC CHIP                         | 82PF    | 5%     | 50V | C215     | 1-162-917-11 | CERAMIC CHIP  | 15PF     | 5%     | 50V |
| C120          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C216     | 1-162-907-11 | CERAMIC CHIP  | 2PF      | 0.25PF | 50V |
| C121          | 1-124-589-11 | ELECT                                | 47uF    | 20%    | 16V | C217     | 1-115-416-11 | CERAMIC CHIP  | 0.001uF  | 5.00%  | 25V |
| C122          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C218     | 1-162-915-11 | CERAMIC CHIP  | 10PF     | 0.5PF  | 50V |
| C123          | 1-162-915-11 | CERAMIC CHIP                         | 10PF    | 0.5PF  | 50V | C219     | 1-115-416-11 | CERAMIC CHIP  | 0.001uF  | 5.00%  | 25V |
| C124          | 1-162-905-11 | CERAMIC CHIP                         | 1PF     | 0.25PF | 50V | C220     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C125          | 1-162-926-11 | CERAMIC CHIP                         | 82PF    | 5%     | 50V | C221     | 1-124-584-00 | ELECT         | 100uF    | 20%    | 10V |
| C126          | 1-164-156-11 | CERAMIC CHIP                         | 0.1uF   |        | 25V | C222     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C127          | 1-164-156-11 | CERAMIC CHIP                         | 0.1uF   |        | 25V | C223     | 1-162-966-11 | CERAMIC CHIP  | 0.0022uF | 10%    | 50V |
| C128          | 1-124-589-11 | ELECT                                | 47uF    | 20%    | 16V | C224     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C129          | 1-164-156-11 | CERAMIC CHIP                         | 0.1uF   |        | 25V | C225     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C130          | 1-162-914-11 | CERAMIC CHIP                         | 9PF     | 0.50PF | 50V | C226     | 1-164-739-11 | CERAMIC CHIP  | 560PF    | 5.00%  | 50V |
| C131          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C227     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C132          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C228     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C133          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C229     | 1-164-245-11 | CERAMIC CHIP  | 0.015uF  | 10.00% | 25V |
| C134          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C230     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C135          | 1-124-589-11 | ELECT                                | 47uF    | 20%    | 16V | C231     | 1-124-261-00 | ELECT         | 10uF     | 20%    | 50V |
| C136          | 1-162-916-11 | CERAMIC CHIP                         | 12PF    | 5%     | 50V | C232     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C137          | 1-162-915-11 | CERAMIC CHIP                         | 10PF    | 0.5PF  | 50V | C233     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C138          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C234     | 1-164-156-11 | CERAMIC CHIP  | 0.1uF    |        | 25V |
| C139          | 1-162-917-11 | CERAMIC CHIP                         | 15PF    | 5%     | 50V | C235     | 1-115-412-11 | CERAMIC CHIP  | 680PF    | 5.00%  | 25V |
| C140          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C236     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C141          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C237     | 1-164-245-11 | CERAMIC CHIP  | 0.015uF  | 10.00% | 25V |
| C142          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C238     | 1-164-245-11 | CERAMIC CHIP  | 0.015uF  | 10.00% | 25V |
| C143          | 1-165-176-11 | CERAMIC CHIP                         | 0.047uF | 10.00% | 16V | C239     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C144          | 1-164-156-11 | CERAMIC CHIP                         | 0.1uF   |        | 25V | C240     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C145          | 1-162-959-11 | CERAMIC CHIP                         | 330PF   | 5%     | 50V | C241     | 1-164-677-11 | CERAMIC CHIP  | 0.033uF  | 10.00% | 16V |
| C146          | 1-124-589-11 | ELECT                                | 47uF    | 20%    | 16V | C242     | 1-164-677-11 | CERAMIC CHIP  | 0.033uF  | 10.00% | 16V |
| C147          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C245     | 1-124-261-00 | ELECT         | 10uF     | 20%    | 50V |
| C148          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C246     | 1-162-970-11 | CERAMIC CHIP  | 0.01uF   | 10%    | 25V |
| C149          | 1-162-905-11 | CERAMIC CHIP                         | 1PF     | 0.25PF | 50V | C247     | 1-164-156-11 | CERAMIC CHIP  | 0.1uF    |        | 25V |
| C150          | 1-124-589-11 | ELECT                                | 47uF    | 20%    | 16V | C248     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C151          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C249     | 1-164-156-11 | CERAMIC CHIP  | 0.1uF    |        | 25V |
| C152          | 1-161-021-11 | CERAMIC                              | 0.047uF | 10%    | 25V | C250     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C153          | 1-162-905-11 | CERAMIC CHIP                         | 1PF     | 0.25PF | 50V | C251     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C154          | 1-162-970-11 | CERAMIC CHIP                         | 0.01uF  | 10%    | 25V | C252     | 1-115-156-11 | CERAMIC CHIP  | 1uF      |        | 10V |
| C155          | 1-162-913-11 | CERAMIC CHIP                         | 8PF     | 0.50PF | 50V | C253     | 1-124-261-00 | ELECT         | 10uF     | 20%    | 50V |
|               |              |                                      |         |        |     | C254     | 1-135-210-11 | TANTALUM CHIP | 4.7uF    | 20%    | 10V |
|               |              |                                      |         |        |     | C255     | 1-135-210-11 | TANTALUM CHIP | 4.7uF    | 20%    | 10V |

## MAIN

| Ref. No. | Part No.     | Description                 | Remarks     | Ref. No. | Part No.     | Description                                           | Remarks |
|----------|--------------|-----------------------------|-------------|----------|--------------|-------------------------------------------------------|---------|
| C256     | 1-115-156-11 | CERAMIC CHIP 1uF            | 10V         | D107     | 8-719-421-40 | DIODE MA77                                            |         |
| C257     | 1-115-156-11 | CERAMIC CHIP 1uF            | 10V         | D108     | 8-719-421-40 | DIODE MA77                                            |         |
| C258     | 1-115-156-11 | CERAMIC CHIP 1uF            | 10V         | D109     | 8-719-002-81 | DIODE 1T363                                           |         |
| C259     | 1-126-935-11 | ELECT 470uF                 | 20.00% 10V  | D110     | 8-719-988-61 | DIODE 1SS355TE-17                                     |         |
| C260     | 1-124-261-00 | ELECT 10uF                  | 20% 50V     |          |              |                                                       |         |
| C261     | 1-124-635-00 | ELECT 220uF                 | 20.00% 6.3V | D111     | 8-719-988-61 | DIODE 1SS355TE-17                                     |         |
| C262     | 1-124-589-11 | ELECT 47uF                  | 20% 16V     | D201     | 8-719-002-81 | DIODE 1T363                                           |         |
| C263     | 1-165-112-11 | CERAMIC CHIP 0.33uF         | 16V         | D202     | 8-719-988-61 | DIODE 1SS355TE-17                                     |         |
| C264     | 1-165-112-11 | CERAMIC CHIP 0.33uF         | 16V         | D203     | 8-719-977-40 | DIODE DTZ13B                                          |         |
| C265     | 1-162-910-11 | CERAMIC CHIP 5PF            | 0.25PF 50V  | D204     | 8-719-988-61 | DIODE 1SS355TE-17                                     |         |
| C266     | 1-164-156-11 | CERAMIC CHIP 0.1uF          | 25V         | D205     | 8-719-975-40 | DIODE RB411D                                          |         |
| C267     | 1-124-261-00 | ELECT 10uF                  | 20% 50V     | D206     | 8-719-941-04 | DIODE SB007-03CP                                      |         |
| C268     | 1-115-156-11 | CERAMIC CHIP 1uF            | 10V         | D207     | 8-719-977-40 | DIODE DTZ13B                                          |         |
| C269     | 1-126-935-11 | ELECT 470uF                 | 20.00% 10V  |          |              | < IC >                                                |         |
| C270     | 1-162-970-11 | CERAMIC CHIP 0.01uF         | 10% 25V     | IC201    | 8-752-064-31 | IC CXA1376AS                                          |         |
| C271     | 1-162-970-11 | CERAMIC CHIP 0.01uF         | 10% 25V     | IC202    | 6-700-363-01 | IC LA3335M-TE-L                                       |         |
| C272     | 1-124-589-11 | ELECT 47uF                  | 20% 16V     | IC203    | 8-752-059-51 | IC CXA1522P                                           |         |
| C273     | 1-162-970-11 | CERAMIC CHIP 0.01uF         | 10% 25V     | IC204    | 6-700-364-01 | IC LA5003M-TE-L                                       |         |
| C274     | 1-124-261-00 | ELECT 10uF                  | 20% 50V     |          |              | < JACK >                                              |         |
| C277     | 1-162-964-11 | CERAMIC CHIP 0.001uF        | 10% 50V     | J101     | 1-569-187-11 | JACK (AM EXT ANT) (EXCEPT CH)                         |         |
| C279     | 1-162-964-11 | CERAMIC CHIP 0.001uF        | 10% 50V     | J201     | 1-573-670-11 | JACK 1P (LINE OUT)                                    |         |
| C280     | 1-115-156-11 | CERAMIC CHIP 1uF            | 10V         | J202     | 1-566-891-11 | JACK (HEADPHONE)                                      |         |
| C281     | 1-115-156-11 | CERAMIC CHIP 1uF            | 10V         | J203     | 1-580-681-21 | JACK,DC(POLARITY UNIFIED TYPE) (DC IN 6V) (EXCEPT CH) |         |
| C282     | 1-162-959-11 | CERAMIC CHIP 330PF          | 5% 50V      |          |              | < COIL >                                              |         |
| C283     | 1-162-965-11 | CERAMIC CHIP 0.0015uF       | 10% 50V     | L101     | 1-412-963-11 | INDUCTOR 100uH                                        |         |
| C284     | 1-162-964-11 | CERAMIC CHIP 0.001uF        | 10% 50V     | L102     | 1-412-939-11 | INDUCTOR 1uH                                          |         |
| C285     | 1-162-964-11 | CERAMIC CHIP 0.001uF        | 10% 50V     | L103     | 1-412-938-11 | INDUCTOR 0.82uH                                       |         |
| C286     | 1-162-964-11 | CERAMIC CHIP 0.001uF        | 10% 50V     | L104     | 1-412-938-11 | INDUCTOR 0.82uH                                       |         |
| C287     | 1-162-970-11 | CERAMIC CHIP 0.01uF         | 10% 25V     | L105     | 1-412-945-11 | INDUCTOR 3.3uH                                        |         |
| C289     | 1-162-970-11 | CERAMIC CHIP 0.01uF         | 10% 25V     | L106     | 1-412-953-11 | INDUCTOR 15uH                                         |         |
| C290     | 1-162-904-11 | CERAMIC CHIP 0.5PF          | 0.25PF 50V  | L107     | 1-410-658-31 | INDUCTOR CHIP 220uH                                   |         |
| C291     | 1-162-964-11 | CERAMIC CHIP 0.001uF        | 10% 50V     | L108     | 1-412-950-11 | INDUCTOR 8.2uH                                        |         |
| C292     | 1-162-964-11 | CERAMIC CHIP 0.001uF        | 10% 50V     | L109     | 1-412-938-11 | INDUCTOR 0.82uH                                       |         |
| C293     | 1-162-964-11 | CERAMIC CHIP 0.001uF        | 10% 50V     | L110     | 1-412-939-11 | INDUCTOR 1uH                                          |         |
|          |              | < FILTER >                  |             | L111     | 1-412-938-11 | INDUCTOR 0.82uH                                       |         |
| CF201    | 1-577-030-11 | FILTER, CERAMIC (455kHz)    |             | L112     | 1-412-933-11 | INDUCTOR 0.33uH                                       |         |
| CF202    | 1-577-574-11 | FILTER, CERAMIC (10.7MHz)   |             | L113     | 1-412-935-11 | INDUCTOR 0.47uH                                       |         |
| CF203    | 1-577-574-11 | FILTER, CERAMIC (10.7MHz)   |             | L114     | 1-412-947-11 | INDUCTOR 4.7uH                                        |         |
| CF204    | 1-760-478-11 | VIBRATOR, CERAMIC (3.64MHz) |             | L115     | 1-412-939-11 | INDUCTOR 1uH                                          |         |
| CF205    | 1-567-163-11 | FILTER, CERAMIC (10.7MHz)   |             |          |              |                                                       |         |
|          |              | < CONNECTOR >               |             | L200     | 1-412-963-11 | INDUCTOR 100uH                                        |         |
| CN201    | 1-691-050-21 | HOUSING, CONNECTOR 18P      |             | L201     | 1-412-949-21 | INDUCTOR 6.8uH                                        |         |
|          |              | < TRIMMER >                 |             | L202     | 1-412-951-11 | INDUCTOR 10uH                                         |         |
| CT101    | 1-141-304-21 | CAP, TRIMMER 10PF           |             | L203     | 1-412-935-11 | INDUCTOR 0.47uH                                       |         |
| CT102    | 1-141-304-21 | CAP, TRIMMER 10PF           |             | L204     | 1-412-935-11 | INDUCTOR 0.47uH                                       |         |
| CT201    | 1-141-442-91 | CAP, CERAMIC TRIMMER 20PF   |             | L205     | 1-412-963-11 | INDUCTOR 100uH                                        |         |
| CT202    | 1-141-304-21 | CAP, TRIMMER 10PF           |             | L206     | 1-412-961-11 | INDUCTOR 68uH                                         |         |
|          |              | < DIODE >                   |             |          |              | < TRANSISTOR >                                        |         |
| D101     | 8-719-002-81 | DIODE 1T363                 |             | Q101     | 8-729-402-32 | TRANSISTOR 2SD1819A-R                                 |         |
| D102     | 8-719-002-81 | DIODE 1T363                 |             | Q104     | 8-729-123-86 | TRANSISTOR 2SK238-K16                                 |         |
| D103     | 8-719-421-40 | DIODE MA77                  |             | Q105     | 8-729-423-52 | TRANSISTOR 2SC3931-C                                  |         |
| D104     | 8-719-800-76 | DIODE 1SS226                |             | Q106     | 8-729-402-32 | TRANSISTOR 2SD1819A-R                                 |         |
| D105     | 8-719-421-40 | DIODE MA77                  |             | Q107     | 8-729-116-64 | TRANSISTOR 2SK508-K51                                 |         |
| D106     | 8-719-421-40 | DIODE MA77                  |             | Q108     | 8-729-402-32 | TRANSISTOR 2SD1819A-R                                 |         |
|          |              |                             |             | Q109     | 8-729-116-64 | TRANSISTOR 2SK508-K51                                 |         |

| Ref. No.     | Part No.     | Description               | Remarks | Ref. No. | Part No.     | Description        | Remarks |
|--------------|--------------|---------------------------|---------|----------|--------------|--------------------|---------|
| Q110         | 8-729-116-64 | TRANSISTOR 2SK508-K51     |         | R125     | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/16W   |
| Q111         | 8-729-208-47 | TRANSISTOR 2SK210-GR      |         | R126     | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/16W   |
| Q112         | 8-729-423-52 | TRANSISTOR 2SC3931-C      |         | R127     | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/16W   |
| Q113         | 8-729-402-32 | TRANSISTOR 2SD1819A-R     |         | R128     | 1-216-809-11 | METAL CHIP 100 5%  | 1/16W   |
| Q114         | 8-729-423-52 | TRANSISTOR 2SC3931-C      |         | R129     | 1-216-809-11 | METAL CHIP 100 5%  | 1/16W   |
| Q115         | 8-729-402-32 | TRANSISTOR 2SD1819A-R     |         | R130     | 1-216-805-11 | METAL CHIP 47 5%   | 1/16W   |
| Q116         | 8-729-123-86 | TRANSISTOR 2SK238-K16     |         | R133     | 1-216-809-11 | METAL CHIP 100 5%  | 1/16W   |
| Q117         | 8-729-423-52 | TRANSISTOR 2SC3931-C      |         | R134     | 1-216-815-11 | METAL CHIP 330 5%  | 1/16W   |
| Q118         | 8-729-208-47 | TRANSISTOR 2SK210-GR      |         | R135     | 1-216-805-11 | METAL CHIP 47 5%   | 1/16W   |
| Q119         | 8-729-423-52 | TRANSISTOR 2SC3931-C      |         | R137     | 1-216-832-11 | METAL CHIP 8.2K 5% | 1/16W   |
| Q120         | 8-729-423-52 | TRANSISTOR 2SC3931-C      |         | R139     | 1-216-857-11 | METAL CHIP 1M 5%   | 1/16W   |
| Q121         | 8-729-402-32 | TRANSISTOR 2SD1819A-R     |         | R140     | 1-216-845-11 | METAL CHIP 100K 5% | 1/16W   |
| Q201         | 8-729-403-24 | TRANSISTOR XN4210         |         | R141     | 1-216-841-11 | METAL CHIP 47K 5%  | 1/16W   |
| Q202         | 8-729-403-24 | TRANSISTOR XN4210         |         | R142     | 1-216-847-11 | METAL CHIP 150K 5% | 1/16W   |
| Q203         | 8-729-028-92 | TRANSISTOR DTA144TUA-T106 |         | R143     | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/16W   |
| Q204         | 8-729-029-15 | TRANSISTOR DTC144TUA-T106 |         | R144     | 1-216-805-11 | METAL CHIP 47 5%   | 1/16W   |
| Q205         | 8-729-029-15 | TRANSISTOR DTC144TUA-T106 |         | R145     | 1-216-797-11 | METAL CHIP 10 5%   | 1/16W   |
| Q206         | 8-729-423-52 | TRANSISTOR 2SC3931-C      |         | R146     | 1-216-817-11 | METAL CHIP 470 5%  | 1/16W   |
| Q207         | 8-729-028-74 | TRANSISTOR DTA114TUA-T106 |         | R147     | 1-216-841-11 | METAL CHIP 47K 5%  | 1/16W   |
| Q208         | 8-729-029-15 | TRANSISTOR DTC144TUA-T106 |         | R148     | 1-216-797-11 | METAL CHIP 10 5%   | 1/16W   |
| Q209         | 8-729-402-32 | TRANSISTOR 2SD1819A-R     |         | R149     | 1-216-803-11 | METAL CHIP 33 5%   | 1/16W   |
| Q210         | 8-729-403-24 | TRANSISTOR XN4210         |         | R150     | 1-216-797-11 | METAL CHIP 10 5%   | 1/16W   |
| Q211         | 8-729-402-13 | TRANSISTOR XN1501         |         | R151     | 1-216-803-11 | METAL CHIP 33 5%   | 1/16W   |
| Q212         | 8-729-028-92 | TRANSISTOR DTA144TUA-T106 |         | R152     | 1-216-839-11 | METAL CHIP 33K 5%  | 1/16W   |
| Q213         | 8-729-402-32 | TRANSISTOR 2SD1819A-R     |         | R153     | 1-216-841-11 | METAL CHIP 47K 5%  | 1/16W   |
| Q214         | 8-729-402-32 | TRANSISTOR 2SD1819A-R     |         | R155     | 1-216-797-11 | METAL CHIP 10 5%   | 1/16W   |
| Q215         | 8-729-028-74 | TRANSISTOR DTA114TUA-T106 |         | R156     | 1-216-853-11 | METAL CHIP 470K 5% | 1/16W   |
| Q216         | 8-729-402-13 | TRANSISTOR XN1501         |         | R157     | 1-216-845-11 | METAL CHIP 100K 5% | 1/16W   |
| Q217         | 8-729-028-74 | TRANSISTOR DTA114TUA-T106 |         | R159     | 1-216-821-11 | METAL CHIP 1K 5%   | 1/16W   |
| Q218         | 8-729-402-16 | TRANSISTOR XN4608         |         | R160     | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/16W   |
| Q219         | 8-729-402-16 | TRANSISTOR XN4608         |         | R161     | 1-216-809-11 | METAL CHIP 100 5%  | 1/16W   |
| Q220         | 8-729-028-74 | TRANSISTOR DTA114TUA-T106 |         | R162     | 1-216-864-11 | SHORT 0            |         |
| Q221         | 8-729-402-16 | TRANSISTOR XN4608         |         | R201     | 1-216-851-11 | METAL CHIP 330K 5% | 1/16W   |
| Q222         | 8-729-402-13 | TRANSISTOR XN1501         |         | R202     | 1-216-837-11 | METAL CHIP 22K 5%  | 1/16W   |
| Q223         | 8-729-029-15 | TRANSISTOR DTC144TUA-T106 |         | R203     | 1-216-836-11 | METAL CHIP 18K 5%  | 1/16W   |
| Q224         | 8-729-800-71 | TRANSISTOR 2SB815B7-TB    |         | R204     | 1-216-839-11 | METAL CHIP 33K 5%  | 1/16W   |
| Q225         | 8-729-800-71 | TRANSISTOR 2SB815B7-TB    |         | R205     | 1-216-809-11 | METAL CHIP 100 5%  | 1/16W   |
| < RESISTOR > |              |                           |         | R206     | 1-216-817-11 | METAL CHIP 470 5%  | 1/16W   |
| R101         | 1-216-821-11 | METAL CHIP 1K 5%          | 1/16W   | R207     | 1-216-845-11 | METAL CHIP 100K 5% | 1/16W   |
| R103         | 1-216-845-11 | METAL CHIP 100K 5%        | 1/16W   | R208     | 1-216-845-11 | METAL CHIP 100K 5% | 1/16W   |
| R108         | 1-216-805-11 | METAL CHIP 47 5%          | 1/16W   | R209     | 1-216-841-11 | METAL CHIP 47K 5%  | 1/16W   |
| R109         | 1-216-845-11 | METAL CHIP 100K 5%        | 1/16W   | R210     | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/16W   |
| R110         | 1-216-817-11 | METAL CHIP 470 5%         | 1/16W   | R211     | 1-216-823-11 | METAL CHIP 1.5K 5% | 1/16W   |
| R111         | 1-216-837-11 | METAL CHIP 22K 5%         | 1/16W   | R212     | 1-216-827-11 | METAL CHIP 3.3K 5% | 1/16W   |
| R112         | 1-216-857-11 | METAL CHIP 1M 5%          | 1/16W   | R213     | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/16W   |
| R113         | 1-216-845-11 | METAL CHIP 100K 5%        | 1/16W   | R214     | 1-216-823-11 | METAL CHIP 1.5K 5% | 1/16W   |
| R114         | 1-216-811-11 | METAL CHIP 150 5%         | 1/16W   | R215     | 1-216-833-11 | METAL CHIP 10K 5%  | 1/16W   |
| R115         | 1-216-833-11 | METAL CHIP 10K 5%         | 1/16W   | R217     | 1-216-809-11 | METAL CHIP 100 5%  | 1/16W   |
| R116         | 1-216-821-11 | METAL CHIP 1K 5%          | 1/16W   | R218     | 1-216-837-11 | METAL CHIP 22K 5%  | 1/16W   |
| R117         | 1-216-853-11 | METAL CHIP 470K 5%        | 1/16W   | R219     | 1-216-845-11 | METAL CHIP 100K 5% | 1/16W   |
| R118         | 1-216-809-11 | METAL CHIP 100 5%         | 1/16W   | R220     | 1-216-845-11 | METAL CHIP 100K 5% | 1/16W   |
| R119         | 1-216-825-11 | METAL CHIP 2.2K 5%        | 1/16W   | R221     | 1-216-797-11 | METAL CHIP 10 5%   | 1/16W   |
| R120         | 1-216-805-11 | METAL CHIP 47 5%          | 1/16W   | R222     | 1-216-839-11 | METAL CHIP 33K 5%  | 1/16W   |
| R121         | 1-216-821-11 | METAL CHIP 1K 5%          | 1/16W   | R223     | 1-216-809-11 | METAL CHIP 100 5%  | 1/16W   |
| R122         | 1-216-847-11 | METAL CHIP 150K 5%        | 1/16W   | R224     | 1-216-829-11 | METAL CHIP 4.7K 5% | 1/16W   |
| R123         | 1-216-841-11 | METAL CHIP 47K 5%         | 1/16W   | R225     | 1-216-833-11 | METAL CHIP 10K 5%  | 1/16W   |
| R124         | 1-216-832-11 | METAL CHIP 8.2K 5%        | 1/16W   | R226     | 1-216-840-11 | METAL CHIP 39K 5%  | 1/16W   |

## MAIN

| Ref. No. | Part No.     | Description                          |      |    | Remarks |
|----------|--------------|--------------------------------------|------|----|---------|
| R227     | 1-216-841-11 | METAL CHIP                           | 47K  | 5% | 1/16W   |
| R228     | 1-216-809-11 | METAL CHIP                           | 100  | 5% | 1/16W   |
| R229     | 1-216-855-11 | METAL CHIP                           | 680K | 5% | 1/16W   |
| R230     | 1-216-841-11 | METAL CHIP                           | 47K  | 5% | 1/16W   |
| R231     | 1-216-833-11 | METAL CHIP                           | 10K  | 5% | 1/16W   |
| R232     | 1-216-805-11 | METAL CHIP                           | 47   | 5% | 1/16W   |
| R233     | 1-216-855-11 | METAL CHIP                           | 680K | 5% | 1/16W   |
| R234     | 1-216-841-11 | METAL CHIP                           | 47K  | 5% | 1/16W   |
| R235     | 1-216-833-11 | METAL CHIP                           | 10K  | 5% | 1/16W   |
| R236     | 1-216-805-11 | METAL CHIP                           | 47   | 5% | 1/16W   |
| R237     | 1-216-837-11 | METAL CHIP                           | 22K  | 5% | 1/16W   |
| R238     | 1-216-825-11 | METAL CHIP                           | 2.2K | 5% | 1/16W   |
| R239     | 1-216-821-11 | METAL CHIP                           | 1K   | 5% | 1/16W   |
| R240     | 1-216-825-11 | METAL CHIP                           | 2.2K | 5% | 1/16W   |
| R241     | 1-216-833-11 | METAL CHIP                           | 10K  | 5% | 1/16W   |
| R242     | 1-216-833-11 | METAL CHIP                           | 10K  | 5% | 1/16W   |
| R243     | 1-216-805-11 | METAL CHIP                           | 47   | 5% | 1/16W   |
| R244     | 1-216-805-11 | METAL CHIP                           | 47   | 5% | 1/16W   |
| R245     | 1-216-809-11 | METAL CHIP                           | 100  | 5% | 1/16W   |
| R246     | 1-216-809-11 | METAL CHIP                           | 100  | 5% | 1/16W   |
| R248     | 1-216-821-11 | METAL CHIP                           | 1K   | 5% | 1/16W   |
| R249     | 1-216-845-11 | METAL CHIP                           | 100K | 5% | 1/16W   |
| R250     | 1-216-845-11 | METAL CHIP                           | 100K | 5% | 1/16W   |
| R251     | 1-216-845-11 | METAL CHIP                           | 100K | 5% | 1/16W   |
| R252     | 1-216-805-11 | METAL CHIP                           | 47   | 5% | 1/16W   |
| R253     | 1-216-829-11 | METAL CHIP                           | 4.7K | 5% | 1/16W   |
| R254     | 1-216-841-11 | METAL CHIP                           | 47K  | 5% | 1/16W   |
| R255     | 1-216-829-11 | METAL CHIP                           | 4.7K | 5% | 1/16W   |
| R256     | 1-216-841-11 | METAL CHIP                           | 47K  | 5% | 1/16W   |
| R257     | 1-216-829-11 | METAL CHIP                           | 4.7K | 5% | 1/16W   |
| R258     | 1-216-841-11 | METAL CHIP                           | 47K  | 5% | 1/16W   |
| R260     | 1-216-825-11 | METAL CHIP                           | 2.2K | 5% | 1/16W   |
| R261     | 1-216-829-11 | METAL CHIP                           | 4.7K | 5% | 1/16W   |
| R262     | 1-216-841-11 | METAL CHIP                           | 47K  | 5% | 1/16W   |
| R263     | 1-216-825-11 | METAL CHIP                           | 2.2K | 5% | 1/16W   |
| R264     | 1-216-809-11 | METAL CHIP                           | 100  | 5% | 1/16W   |
| R265     | 1-216-809-11 | METAL CHIP                           | 100  | 5% | 1/16W   |
| R266     | 1-216-809-11 | METAL CHIP                           | 100  | 5% | 1/16W   |
| R267     | 1-216-845-11 | METAL CHIP                           | 100K | 5% | 1/16W   |
| R268     | 1-216-845-11 | METAL CHIP                           | 100K | 5% | 1/16W   |
| R269     | 1-216-845-11 | METAL CHIP                           | 100K | 5% | 1/16W   |
| R273     | 1-216-825-11 | METAL CHIP                           | 2.2K | 5% | 1/16W   |
| R275     | 1-216-833-11 | METAL CHIP                           | 10K  | 5% | 1/16W   |
| R276     | 1-216-841-11 | METAL CHIP                           | 47K  | 5% | 1/16W   |
| R277     | 1-216-836-11 | METAL CHIP                           | 18K  | 5% | 1/16W   |
| R278     | 1-216-864-11 | SHORT                                | 0    |    |         |
| R281     | 1-216-864-11 | SHORT                                | 0    |    |         |
|          |              | < VARIABLE RESISTOR >                |      |    |         |
| RV101    | 1-227-317-11 | RES, VAR, CARBON 20K (ATT)           |      |    |         |
| RV201    | 1-227-388-11 | RES, VAR, CARBON 50K (SSB FINE TUNE) |      |    |         |
|          |              | (EXCEPT CH, EA)                      |      |    |         |
| RV202    | 1-241-767-21 | RES, ADJ, CARBON 100K                |      |    |         |
| RV203    | 1-241-765-11 | RES, ADJ, CARBON 22K                 |      |    |         |
| RV204    | 1-227-174-11 | RES, VAR CARBON 50K (VOLUME ▲)       |      |    |         |

| Ref. No.                        | Part No.     | Description                                        | Remarks |
|---------------------------------|--------------|----------------------------------------------------|---------|
| < SWITCH >                      |              |                                                    |         |
| S101                            | 1-571-850-81 | SWITCH, SLIDE (ATT)                                |         |
| S201                            | 1-786-100-11 | SWITCH, SLIDE (AM MODE)                            |         |
| S202                            | 1-571-850-81 | SWITCH, SLIDE (SYNC)                               |         |
| S203                            | 1-571-850-81 | SWITCH, SLIDE (TONE)                               |         |
| < TRANSFORMER >                 |              |                                                    |         |
| T101                            | 1-460-037-11 | COIL (WITH CORE)                                   |         |
| T102                            | 1-460-038-11 | COIL (WITH CORE)                                   |         |
| T103                            | 1-426-357-11 | TRANSFORMER, RF                                    |         |
| T104                            | 1-404-780-21 | TRANSFORMER, IF                                    |         |
| T105                            | 1-426-158-00 | COIL (RF)                                          |         |
| T106                            | 1-435-847-11 | TRANSFORMER, HIGH-FREQUENCY                        |         |
| T107                            | 1-416-825-11 | COIL (OSC)                                         |         |
| T202                            | 1-460-039-11 | COIL (WITH CORE)                                   |         |
| T203                            | 1-435-410-11 | TRANSFORMER, DC-DC CONVERTER                       |         |
| < VIBRATOR >                    |              |                                                    |         |
| X201                            | 1-795-253-21 | VIBRATOR, CRYSTAL (55.390MHz)                      |         |
| XF101                           | 1-795-254-11 | FILTER, CRYSTAL (55.545MHz)                        |         |
| *****                           |              |                                                    |         |
| MISCELLANEOUS                   |              |                                                    |         |
| *****                           |              |                                                    |         |
| 54                              | 1-757-510-11 | WIRE (FLAT TYPE) (18 CORE)                         |         |
| * 60                            | 1-694-751-11 | CONDUCTIVE BOARD, CONNECTION                       |         |
| ANT101                          | 1-501-712-11 | ANTENNA, TELESCOPIC                                |         |
| ANT102                          | 1-402-479-21 | ANTENNA, FERRITE-ROD (LW/MW)                       |         |
| LCD1                            | 1-804-194-11 | DISPLAY PANEL, LIQUID CRYSTAL                      |         |
| SP201                           | 1-529-942-11 | SPEAKER (7.7cm)                                    |         |
| ACCESSORIES & PACKING MATERIALS |              |                                                    |         |
| *****                           |              |                                                    |         |
| △                               | 1-476-122-12 | ADAPTOR, AC (AC-E601) (JE)                         |         |
| △                               | 1-476-127-11 | ADAPTOR, AC (AC-114) (SP)                          |         |
| △                               | 1-506-443-00 | ADAPTOR, PLUG (JE)                                 |         |
| △                               | 1-569-007-11 | ADAPTOR, CONVERSION 2P (JE)                        |         |
|                                 | 3-227-586-01 | MANUAL, INSTRUCTION                                |         |
|                                 |              | (JAPANESE/ENGLISH/ARABIC/KOREAN/CHINESE)(CH,JE,EA) |         |
|                                 | 3-227-586-11 | MANUAL, INSTRUCTION                                |         |
|                                 |              | (ENGLISH/FRENCH/GERMAN/SPANISH/ITALIAN/PORTUGUESE) |         |
|                                 |              | (US,CND,AEP,E,SP)                                  |         |
|                                 | 3-227-586-21 | MANUAL, INSTRUCTION                                |         |
|                                 |              | (ENGLISH/DUTCH/SWEDISH/RUSSIAN/FINNISH)(AEP)       |         |
|                                 | 3-229-205-01 | CASE, CARRYING                                     |         |
|                                 | 3-893-802-14 | BOOK, GUIDE, WAVE (US,CND,AEP,CH,E,JE,SP)          |         |
|                                 | 3-912-863-05 | GUIDE, SHORT WAVE (EA)                             |         |
|                                 | 8-953-130-90 | HEADPHONE MDR-E805LP (JE)                          |         |
| *                               | A-3638-036-A | ANTENNA, WIRE (SW)                                 |         |
|                                 | X-3329-657-1 | ATTACHMENT(JE)                                     |         |

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

Les composants identifiés par une marque  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

MEMO

<https://315kkk.com>



## REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

[illegible]