ICF-SW7600GR

SERVICE MANUAL

Ver 1.0 2001.03

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

SPECIFICATIONS

Circuit system
FM: Super heterodyne
AM: Dual conversion super heterodyne

Frequency range
FM: 76–108 MHz
SW: 1 621–29 999 kHz
MW: 530–1 620 kHz
LW: 150–529 kHz

Output
LINE OUT jack (stereo minijack) × 1
Recording output level approx. 245 mV, output impedance less than 10 kΩ
(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
Approx. 608 g (incl. four R6 (size AA) batteries)

Supplied accessories
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

SONY®
# ICF-SW7600GR

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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 identifiés 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.

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 headphone 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

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

**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 ✶, STANDBY ✶ 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.

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 $-$ or $+$ to choose the time difference between your local time and the UTC.

   TIME ZONE indicator will appear. Each time you press $-$ or $+$, 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 ±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 $-$ or $+$ to set the local time.

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

   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 $-$ or $+$ 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

(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)

• FM Section

(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:
- ATT switch : OFF
- TONE switch : MUSIC
- 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 55.39000MHz±30Hz.(55.38997 to 55.39003MHz)

Adjustment Location: MAIN board (See page 8)

(4) FM Tracking Adjustment
Setting:
- ATT switch : OFF
- 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:
- ATT switch : OFF
- TONE switch : MUSIC

Procedure:
1. Insert Headphones plug into headphones jack (J202) (for VCO operation).
2. Connect a capacitor (10µF) 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 76kHz±300Hz.
6. Remove the headphones plug.

Adjustment Location: MAIN board (See page 8)

(6) Just Tune Adjustment
Setting:
- ATT switch : OFF
- TONE switch : MUSIC
- (FM RF signal generator)
  - Frequency : 93.025MHz
  - Modulation : 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:
- ATT switch : OFF
- TONE switch : MUSIC
- (AM RF signal generator)
  - Frequency : AM 150kHz
  - Modulation : None
  - Output level : 44dB

Procedure:
1. Connect an oscilloscope to the TP DET.
2. Tune the set to AM 150kHz.
3. Set the AM MODE switch to SYNC.
4. Set the SYNC switch to USB.
5. Adjust CT201 so that the waveform on the oscilloscope is minimized.
6. Set the 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 AM MODE switch to SSB.
10. Confirm that the beat sound is changed by turning the SSB FINE TUNE control.

Adjustment Location: MAIN board (See page 8)
Adjustment Location:
[MAIN BOARD] — Component Side —

1st IF Adjustment
T104 T105

CT101 CT102
FM TRACKING Adjustment
(108MHz)

T202
FM VCO Adjustment

RV202
JUST TUNE Adjustment

RV203
76kHz (MPX) Adjustment

IC201

[MAIN BOARD] — Conductor Side —

T101 T102
FM TRACKING Adjustment
(76MHz)

CT201
SSB 0 BEAT Adjustment

CT202
2nd LOCAL Adjustment

RV203
76kHz (VCO) Adjustment

76K (VCO) MPX Adjustment

SD
JUST TUNE Adjustment

OSC2
2nd LOCAL Adjustment

VT
AM/FM VCO Adjustment

DET
SSB 0 BEAT Adjustment
Note on Printed Wiring Boards:
- \( \cdot \): parts extracted from the component side.
- \( \circ \): Through hole.
- \( \square \): Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

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.
All capacitors are in µF unless otherwise noted. pF: µµF
50 WV or less are not indicated except for electrolytics and tantalums.
All resistors are in Ω and 1/4 W or less unless otherwise specified.
C: panel designation.
A: B+ Line.
H: adjustment for repair.
Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.

Note on Schematic Diagram:
• All capacitors are in µF unless otherwise noted. pF: µµF
50 WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and 1/4 W or less unless otherwise specified.
• C: panel designation.
• A: B+ Line.
• H: 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 MΩ).
• 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
Note on Schematic Diagram:

• All capacitors are in µF unless otherwise noted. pF; µµF
  50 WV or less are not indicated except for electrolytics
  and tantalums.
• All resistors are in Ω and 1/4 W or less unless otherwise
  specified.
• : internal component.
• : 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 MΩ).
• Voltage variations may be noted due to normal produc-
  tion tolerances.
• Signal path.
  : FM
  : MW/LW
  : SW
• Abbreviation
  CH : Chinese model
  EA : Saudi Arabia model

WAVEFORMS

IC201

Q216 Collector
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: 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.
ICF-SW7600GR

4-7. SCHEMATIC DIAGRAM – KEY BOARD –

Refer to page 16 for IC Pin Function.

Note on Schematic Diagram:
• All capacitors are in µF unless otherwise noted. pF=µµF
50 WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and 1/4 W or less unless otherwise specified.
• C: panel designation.
• A: B+ Line.
• H: 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 MΩ).
• Voltage variations may be noted due to normal production tolerances.
• Voltage variations may be noted due to normal production tolerances.
• Abbreviation
  CH : Chinese model

WAVEFORM

IC302 ⊗

12.3 µs
7.6 Vpp

IC302

1
4-8. IC PIN FUNCTION DESCRIPTION

IC201  CXA1376AS

•  IC BLOCK DIAGRAMS

IC202  LA3335M

IC203  CXA1522P

IC204  LA5003M

IC302  µPD17073GB-564-1A7  (DIGITAL TUNING SYSTEM CONTROL)

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Pin Name</th>
<th>I/O</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LIGHT</td>
<td>O</td>
<td>Light control signal output</td>
</tr>
<tr>
<td>2</td>
<td>MUTING</td>
<td>O</td>
<td>Muting signal output</td>
</tr>
<tr>
<td>3</td>
<td>KS6</td>
<td>O</td>
<td>Key source signal output</td>
</tr>
<tr>
<td>4</td>
<td>KS5</td>
<td>O</td>
<td>Key source signal output</td>
</tr>
<tr>
<td>5</td>
<td>KS4</td>
<td>O</td>
<td>Key source signal output</td>
</tr>
<tr>
<td>6</td>
<td>KS3</td>
<td>O</td>
<td>Key source signal output</td>
</tr>
<tr>
<td>7</td>
<td>KS2</td>
<td>O</td>
<td>Key source signal output</td>
</tr>
<tr>
<td>8</td>
<td>KS1</td>
<td>O</td>
<td>Key source signal output</td>
</tr>
<tr>
<td>9</td>
<td>KS0</td>
<td>O</td>
<td>Key source signal output</td>
</tr>
<tr>
<td>10</td>
<td>KR3</td>
<td>1</td>
<td>Key return signal input</td>
</tr>
<tr>
<td>11</td>
<td>KR2</td>
<td>1</td>
<td>Key return signal input</td>
</tr>
<tr>
<td>12</td>
<td>KR1</td>
<td>1</td>
<td>Key return signal input</td>
</tr>
<tr>
<td>13</td>
<td>KR0</td>
<td>1</td>
<td>Key return signal input</td>
</tr>
<tr>
<td>14</td>
<td>HOLD</td>
<td>1</td>
<td>Key input protect switch signal input</td>
</tr>
<tr>
<td>15</td>
<td>POWER</td>
<td>O</td>
<td>Radio power control signal output</td>
</tr>
<tr>
<td>16</td>
<td>AM/FM</td>
<td>O</td>
<td>AM/FM select signal output</td>
</tr>
<tr>
<td>17</td>
<td>BAREOD</td>
<td>O</td>
<td>Bar/Rod antenna select signal output</td>
</tr>
<tr>
<td>18</td>
<td>GND</td>
<td>–</td>
<td>Ground</td>
</tr>
<tr>
<td>19</td>
<td>EO</td>
<td>O</td>
<td>Error signal output</td>
</tr>
<tr>
<td>20</td>
<td>VCOL</td>
<td>1</td>
<td>AM VCO (local oscillation) frequency input</td>
</tr>
<tr>
<td>21</td>
<td>VCDH</td>
<td>1</td>
<td>FM VCO (local oscillation) frequency input</td>
</tr>
<tr>
<td>22</td>
<td>REG PLL</td>
<td>O</td>
<td>Output of PLL voltage regulator</td>
</tr>
<tr>
<td>23</td>
<td>VDD</td>
<td>–</td>
<td>Power supply (+5V)</td>
</tr>
<tr>
<td>24</td>
<td>XIN</td>
<td>1</td>
<td>Pin for connecting crystal resonator for system clock</td>
</tr>
<tr>
<td>25</td>
<td>REG OSC</td>
<td>O</td>
<td>Output of voltage regulator for oscillation circuit</td>
</tr>
<tr>
<td>26</td>
<td>REG LCO</td>
<td>O</td>
<td>LCD drive voltage output</td>
</tr>
<tr>
<td>27</td>
<td>CAP LCD</td>
<td>–</td>
<td>Pin for capacitor connection for LCD drive voltage</td>
</tr>
<tr>
<td>28</td>
<td>CAP LCD</td>
<td>–</td>
<td>Pin for capacitor connection for LCD drive voltage</td>
</tr>
<tr>
<td>29</td>
<td>COM0 - 3</td>
<td>O</td>
<td>LCD common signal output</td>
</tr>
<tr>
<td>30 - 34</td>
<td>LCD0 - 14</td>
<td>O</td>
<td>LCD segment signal output</td>
</tr>
<tr>
<td>35</td>
<td>CE</td>
<td>1</td>
<td>Chip select enable input</td>
</tr>
<tr>
<td>36</td>
<td>VDET</td>
<td>1</td>
<td>Low voltage detect signal input</td>
</tr>
<tr>
<td>37</td>
<td>BEEP</td>
<td>O</td>
<td>BEEP signal output</td>
</tr>
<tr>
<td>38</td>
<td>SD</td>
<td>1</td>
<td>Signal detector signal input</td>
</tr>
<tr>
<td>39</td>
<td>METER</td>
<td>1</td>
<td>Reception level signal input</td>
</tr>
<tr>
<td>40</td>
<td>SCK</td>
<td>O</td>
<td>Serial clock output for EEPROM</td>
</tr>
<tr>
<td>41</td>
<td>SUSO</td>
<td>I/O</td>
<td>Serial data input or output for EEPROM</td>
</tr>
</tbody>
</table>
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

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

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
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- 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)
**SECTION 6**

**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, -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:**
  - µF:
  - RESISTORS
    - All resistors are in ohms.
    - METAL: metal-film resistor
    - METAL OXIDE: Metal Oxide-film resistor
    - F: nonflammable
- **SEMICONDUCTORS**
  - CH: Chinese model
  - CND: Canadian model
  - EA: Saudi Arabia model
  - JE: Tourist model
  - SP: Singapore model

**Ref. No.** | **Part No.** | **Description** | **Remarks**
--- | --- | --- | ---
* | A-4440-289-A | KEY BOARD, COMPLETE | **KEY**
* | 1-694-751-11 | CONDUCTIVE BOARD, CONNECTION |
* | 3-227-389-01 | HOLDER (LCD) |
* | 3-227-390-01 | CASE (LCD) |
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C301 | 1-164-315-11 | CERAMIC CHIP 470PF 5.00% 50V |
C302 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
C303 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
C304 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
C305 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
C306 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
C307 | 1-162-964-11 | CERAMIC CHIP 0.01uF 10% 50V |
C308 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
C309 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
C310 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
C311 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V |
C312 | 1-115-156-11 | CERAMIC CHIP 1uF 10V |
C313 | 1-164-156-11 | CERAMIC CHIP 0.1uF 25V |
C314 | 1-115-156-11 | CERAMIC CHIP 1uF 10V |
C315 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V |
C316 | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% 25V |
C317 | 1-164-156-11 | CERAMIC CHIP 0.1uF 25V |
C318 | 1-162-925-11 | CERAMIC CHIP 68PF 5.00% 50V |
C319 | 1-162-917-11 | CERAMIC CHIP 15PF 5% 50V |
C320 | 1-164-156-11 | CERAMIC CHIP 0.1uF 25V |
C321 | 1-164-156-11 | CERAMIC CHIP 0.1uF 25V |
C322 | 1-115-156-11 | CERAMIC CHIP 1uF 10V |
C323 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V |
C324 | 1-162-156-11 | CERAMIC CHIP 0.1uF 25V |
C325 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V |
C326 | 1-115-416-11 | CERAMIC CHIP 0.001uF 5.00% 25V |
C327 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V |
C328 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V |
C329 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V |
C330 | 1-164-315-11 | CERAMIC CHIP 470PF 5.00% 50V |
C331 | 1-136-177-00 | FILM 1µF 5.00% 50V |
C332 | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% 50V |
C333 | 1-126-166-11 | ELECT 2200uF 5.0V |
C334 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V |
C335 | 1-115-156-11 | CERAMIC CHIP 1uF 10V |
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CN301 | 1-691-077-21 | HOUSING, CONNECTOR 18P |
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D303 | 8-719-988-61 | DIODE 1S355TE-17 |
D304 | 8-719-988-61 | DIODE 1S355TE-17 |
D305 | 8-719-988-61 | DIODE 1S355TE-17 |
D306 | 8-719-941-04 | DIODE SB007-03CP |
D308 | 8-719-977-40 | DIODE DTZ13B |
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**< TRANSISTOR >**
Q301 | 8-729-028-97 | TRANSISTOR DTC114TUA-T106 |
Q302 | 8-729-220-93 | TRANSISTOR 2SK209-G |
Q303 | 8-729-220-93 | TRANSISTOR 2SK209-G |
Q304 | 8-729-423-52 | TRANSISTOR 2SC3931-C |
Q305 | 8-729-028-92 | TRANSISTOR DTA144TUA-T106 |
Q306 | 8-729-402-32 | TRANSISTOR 2SD1819A-R |
--- | --- | --- | ---
**< LIQUID CRYSTAL DISPLAY >**
LCD1 | 1-804-194-11 | DISPLAY PANEL, LIQUID CRYSTAL |
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**< RESISTOR >**
R301 | 1-216-797-11 | METAL CHIP 10 5% 1/16W |
R302 | 1-216-845-11 | METAL CHIP 100K 5% 1/16W |
R303 | 1-216-845-11 | METAL CHIP 100K 5% 1/16W |
R304 | 1-216-845-11 | METAL CHIP 100K 5% 1/16W |
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**KEY**

- ICF-SW7600GR

** Vance Tech Inc. **

---

**Remarks:**

- Remarks column is not utilized in this list.

---

**Description:**

- Description column specifies the type and value of components.

---

**Ref. No.:**

- Ref. No. column lists the reference number for each component.

---

**Part No.:**

- Part No. column lists the part number for each component.

---

**Description:**

- Description column provides a brief description of each component's function or role in the device.

---

**Remarks:**

- Remarks column is not utilized in this list.

---

**< SWITCH >**

- This notation indicates a switch component.

---

**< VIBRATOR >**

- This notation indicates a vibrator component.

---

**X301 1-767-517-11 VIBRATOR, CRYSTAL (75kHz)**

- This notation specifies the type of vibrator used in the device.

---

**< VIBRATOR >**

- This notation indicates a switch component.

---

**---**

- Indicates the end of the list.
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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)

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The components identified by 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.
## REVISION HISTORY

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

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