



Working Instructions, SP/Mechanical

Applicable for Z200/Z208

Contents

1	Disassembly	2
2	Reassembly	11
3	Replacement of Mechanical Parts	21
3.1	Upper Inside Assy	21
3.2	Dome Foil	22
3	Display assembly	24
3.2.1	Sub Display	26
3.2.2	Main Display Assy	28
3.3	Battery Connector	30
3.4	Microphone Assy	31
3.5	Earphone Assy	32
3.6	Load Speaker Assy (Polyphonic)	33
4	Vibrator Assy	34
4.1	Flexfilm (BTB to FPC) & Upper PCB Assy	35
4.2	Hinge Insert	37
4.3	Hinge Mechanism	38
4.4	Water Damage Indicator	39
4.5	Magnet	40
4.6	Nameplate	41
5	Process Tools for Label	42
6	Revision History	43

1 Disassembly



Process tools

- Torque screwdriver, torx no.6 set to 11 Ncm
- Pair of tweezers
- Front opening tool. (NTZ 112 302)
- Flex Film Assembly tool. (NTZ 112521)





Equipment

- ESD-gloves (cotton gloves)
- ESD-wristband

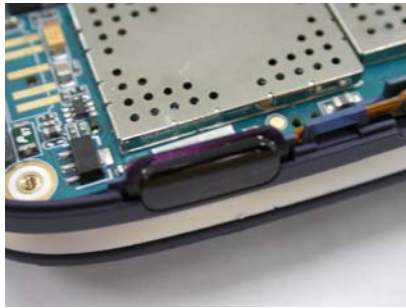
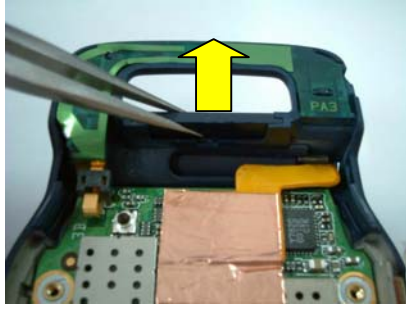


Instruction

#	Figure	Instruction	Note
1	 <p><i>Fig 1.1</i></p>	Release the battery cover and remove it.(Fig. 1.1.)	
2	 <p><i>Fig 1.2</i></p>	Release the battery and remove it.(Fig.1.2.)	







#	Figure	Instruction	Note
3	 <p>Fig 1.3</p>	Remove the 4 screws (Fig. 1.3.)	
4	 <p>Fig 1.4</p>	Remove the Antenna/Hinge Cover (Fig 1.4)	By bend it in the same direction as the arrow point on the picture.
5	 <p>Fig 1.5</p>	Use the Front opening tool to release the Rear Cover Assy from the Lower Inside Cover Assy. Place the tool between the Rear Cover Assy and the Lower Inside Cover Assy. Start with No 1 and then continue until you reach No 5 (Fig 1.5)	Place the Front opening tool as shown at the picture and follow the arrow indication No1 to No5. Do not use a screwdriver or other sharp tools; it might cause some damage to the plastics or other components.
6	 <p>Fig 1.6</p>	Remove the Sidekey with help of a pair of tweezers. (Fig 1.6)	







#	Figure	Instruction	Note
7	 <p style="text-align: center;"><i>Fig 1.7</i></p>	Remove the IrDA Window with your fingers (Fig. 1.7.)	The IrDA Window is easy to scratch. Do not use a pair of tweezers.
8	 <p style="text-align: center;"><i>Fig 1.8</i></p>	Remove the Top Cover from the Lower Inside Cover Assy, by lifting it straight up with help of a pair of tweezers. (Fig. 1.8.)	
9	 <p style="text-align: center;"><i>Fig 1.9</i></p>	Use a Front opening tool to release the Flexfilm from the board to board connector. (Fig 1.9)	
10	 <p style="text-align: center;"><i>Fig 1.10</i></p>	Remove the Conductive Copper Film from Shielding Case Lid (Fig 1.10)	Use a pair of tweezers to remove the Conductive Copper Film.

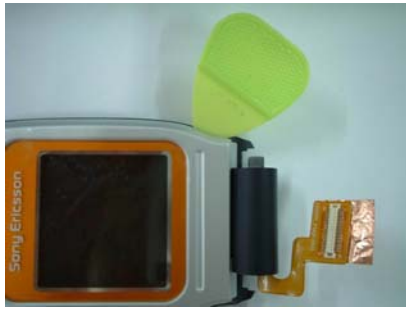





#	Figure	Instruction	Note
11	 <p data-bbox="592 667 695 701"><i>Fig 1.11</i></p>	<p data-bbox="874 327 1182 488">There are two snap hooks holding and positioning the PCB into the Lower Inside Cover Assy. (Fig. 1.11)</p>	
12	 <p data-bbox="592 1070 695 1104"><i>Fig 1.12</i></p>	<p data-bbox="874 730 1182 853">Use a Front opening tool to release the left Snap hook in the Lower Inside Cover Assy. (Fig. 1.12.)</p>	<p data-bbox="1217 730 1477 891">There is a risk of damaging the PCB or the Lower Inside Cover Assy if you are using sharp tools.</p>
13	 <p data-bbox="592 1473 695 1507"><i>Fig 1.13</i></p>	<p data-bbox="874 1133 1182 1323">Release the PCB from the Lower Inside Cover Assy by grab hold of the System Connector with your fingers and lift. (Fig 1.13)</p>	
14	 <p data-bbox="592 1877 695 1910"><i>Fig 1.14</i></p>	<p data-bbox="874 1536 1182 1626">Remove the Keypad with help of a pair of tweezers. (Fig. 1.14.)</p>	

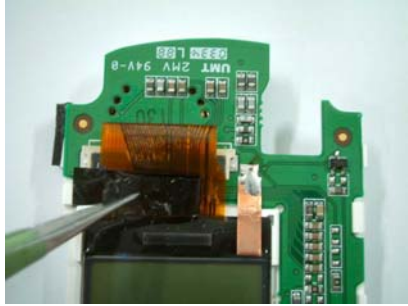
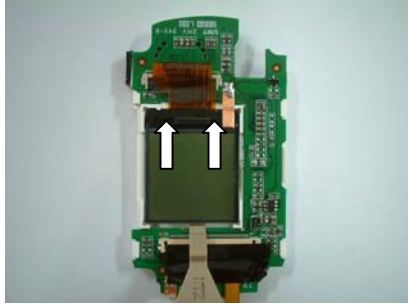
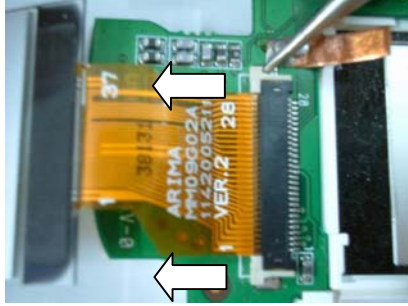
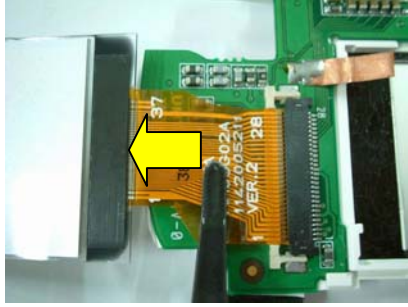


#	Figure	Instruction	Note
15	 <p><i>Fig 1.15</i></p>	Lift the Exchange Cover with your thumb (1), and push it along the way of the arrow indication(2) (Fig 1.15)	
16	 <p><i>Fig 1.16</i></p>	Use a pair of tweezers to press the Hinge Mechanism (Fig 1.16)	Put the tweezer into the cavity and push. At the same time use the thumb to push the Lower Inside Cover Assy in the arrow direction as shown in the picture.
17	 <p><i>Fig 1.17</i></p>	Release the Upper Outside Cover Assy from the Lower Inside Cover Assy by pulling it apart, in the arrow direction as shown in the picture. (Fig. 1.17.)	Be careful not to damage the Flexfilm.
18	 <p><i>Fig 1.18</i></p>	Untighten the 4 screws. (Fig. 1.18)	

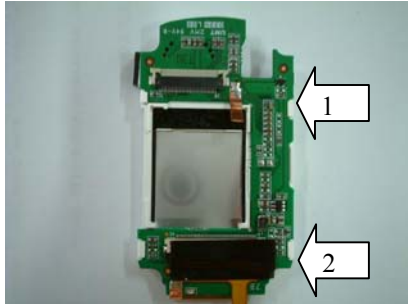

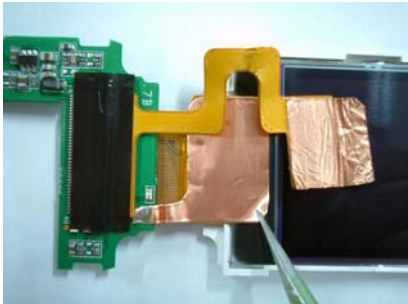
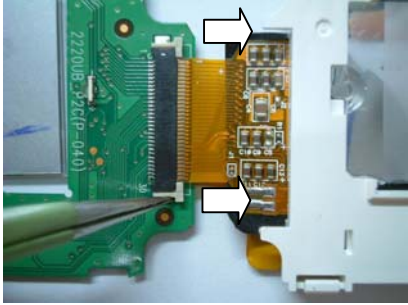


#	Figure	Instruction	Note
19	 <p><i>Fig 1.19</i></p>  <p><i>Fig 1.20</i></p>	<p>Use the Guitar pick to release the Upper Inside Cover Assy from the Upper Outside Cover Assy.</p> <p>Position and press the tool between the corner of Upper Inside Cover Assy and Upper Outside Cover Assy. (Fig 1.19)</p> <p>Start as shown in the picture by sliding the tool from No.1 to No.2 and then from No.3 to No.4. (Fig 1.20)</p>	<p>Place the Guitar pick as shown at the picture.</p> <p>Do not use a screwdriver or other sharp tools; it might cause some damage to the plastics or other components.</p> <p>Be careful not to damage the speaker.</p>
20	 <p><i>Fig 1.21</i></p>	<p>Release and remove the Assistant Plate with help of a pair of tweezers. (Fig 1.21)</p>	
21	 <p><i>Fig 1.22</i></p>	<p>Use a Front opening tool to release the Upper PCB from the Upper Outside Cover Assy. (Fig. 1.22.)</p>	<p>There is a risk of damaging the Upper PCB Assy or the Upper Outside Cover Assy if you are not using the Front opening tool.</p>

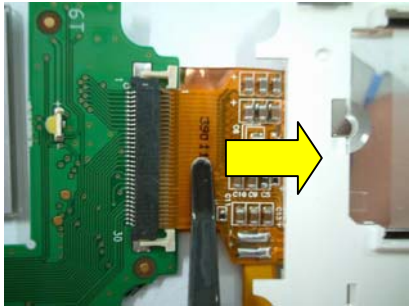


#	Figure	Instruction	Note
22	 <p><i>Fig 1.23</i></p>	Remove the Tape/ Zif connector on the Sub display connector. (Fig 1.23)	Use a pair of tweezers to remove the tape.
23	 <p><i>Fig 1.24</i></p>	There are 2 hooks in the top of Sub Display. Use a Front opening tool to release the Sub Display from Main Display Assy. (Fig 1.24)	
24	 <p><i>Fig 1.25</i></p>	Use a pair of tweezers to release the Sub Display connector by pulling the ZIF-connector lock in the direction of the arrows on the picture. (Fig 1.25)	
25	 <p><i>Fig 1.26</i></p>	Use a Flex film assembly tool to remove the Sub Display flex film. (Fig 1.26)	



#	Figure	Instruction	Note
26	 <p data-bbox="592 667 695 701">Fig 1.27</p>  <p data-bbox="592 1037 695 1070">Fig 1.28</p>	<p data-bbox="874 327 1187 589">There are four snap hooks holding the Main Display Assy onto Sub PCB Use a Front opening tool to release the snap hooks Start with No.1 to No.2, as shown in the picture (Fig. 1.27.)</p> <p data-bbox="874 730 1150 891">Lift the Sub-PCB Assy up, and pull in the direction as the picture shows. (Fig. 1.28)</p>	<p data-bbox="1219 327 1474 488">Press the Front opening tool between the Upper PCB Assy and Main Display Assy.</p> <p data-bbox="1219 730 1358 763">Use gloves.</p>
27	 <p data-bbox="592 1433 695 1467">Fig 1.29</p>	<p data-bbox="874 1093 1171 1216">Remove the Conductive Copper Film from the Main Display Assy. (Fig 1.29)</p>	<p data-bbox="1219 1093 1449 1283">Use a pair of tweezers, as shown in the picture. Be careful not to damage the Main Display Assy.</p>
28	 <p data-bbox="592 1836 695 1870">Fig 1.30</p>	<p data-bbox="874 1496 1187 1686">Use a pair of tweezers to release the Main Display Assy connector by pulling the ZIF-contractor lock in the direction of the arrows on the picture. (Fig. 1.30)</p>	



#	Figure	Instruction	Note
29	 <p data-bbox="592 667 695 703"><i>Fig 1.31</i></p>	Use a Flex film assembly tool to remove the Main Display Assy flexfilm. (Fig 1.31)	

2 Reassembly

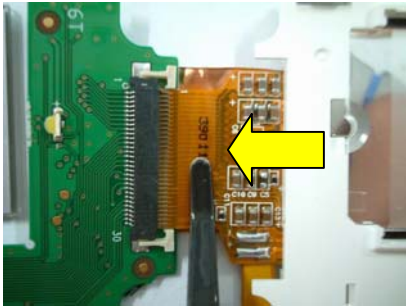
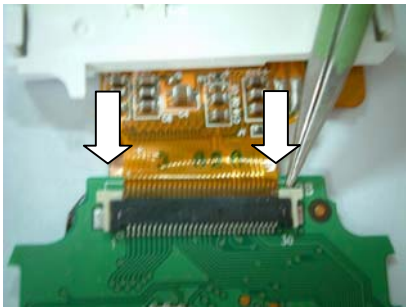
Process tools

- Torque screwdriver, torx no.6 set to 11 Ncm
- Pair of tweezers
- Flex Film Assembly tool.

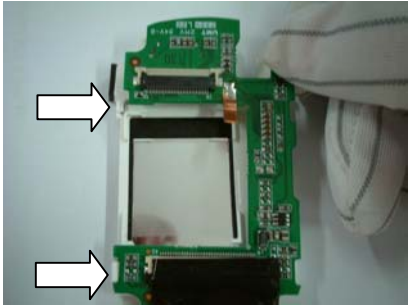
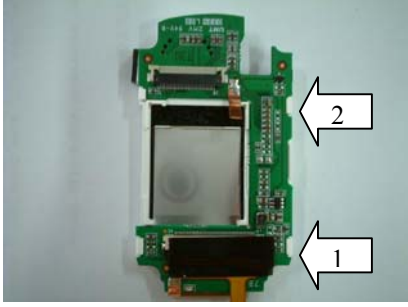
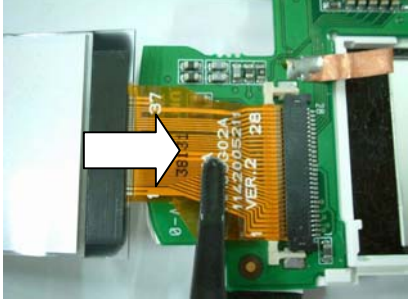
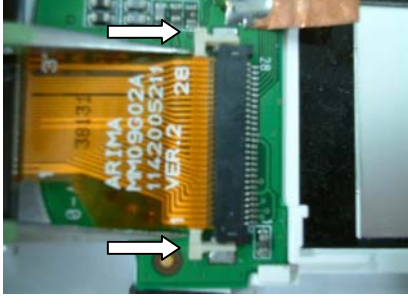
Equipment

- ESD-gloves (cotton gloves)
- ESD-wristband

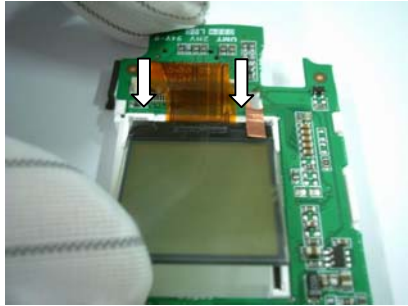
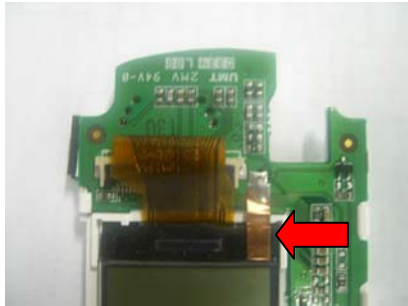
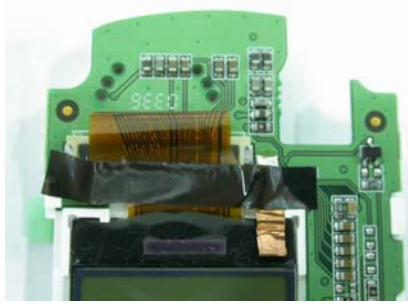

Instruction

#	Figure	Instruction	Note
1	 <p><i>Fig 2.1</i></p>	Mount the Main display assy flex film in the Zif connector with a Flex film assembly tool. (Fig 2.1)	
2	 <p><i>Fig 2.2</i></p>	Close the ZIF-connector with a pair of tweezers. (Fig 2.2)	Be careful so you don't harm the LCD flex film.

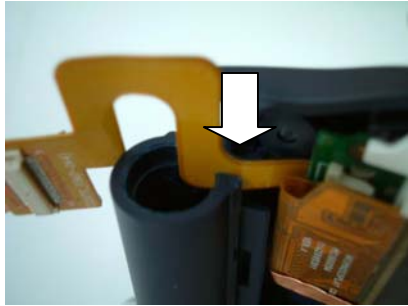




#	Figure	Instruction	Note
3	 <p data-bbox="619 667 705 703">Fig 2.3</p>	Place the Sub PCB Assy under the two snap hooks of Main Display Assy, as shown in the picture (Fig 2.3)	
4	 <p data-bbox="619 1070 705 1106">Fig 2.4</p>	Press the Sub PCB (arrow indication in the picture) to make it fit tightly to the Main Display Assy, start with arrow No.1 when continue with No.2. (Fig 2.4)	
5	 <p data-bbox="619 1473 705 1509">Fig 2.5</p>	Mount the Sub display assy flex film in the Zif connector with a Flex film assembly tool. (Fig 2.5)	
6	 <p data-bbox="619 1877 705 1912">Fig 2.6</p>	Close the ZIF-connector with a pair of tweezers. (Fig 2.6)	Be careful so you don't harm the LCD flex film.







#	Figure	Instruction	Note
7	 <p><i>Fig 2.7</i></p>	Place the Sub Display under the two hooks (as shown in the picture) into the cavity for the Sub display. Press on the Sub Display gently to make it fit into the Main Display Assy. (Fig 2.7)	Remember to remove the LCD protection tape. Press very gently at the surface.
8	 <p><i>Fig 2.8</i></p>	Apply the Conductive Copper File for the Sub Display. (Fig 2.8)	
9	 <p><i>Fig 2.9</i></p>	Apply the Sub LCD Connector Tape for Sub Display flex film (Fig 2.9)	
10	 <p><i>Fig 2.10</i></p>	Apply the Conductive Copper Film for the Main Display Assy, as shown in the picture. (Fig 2.10)	






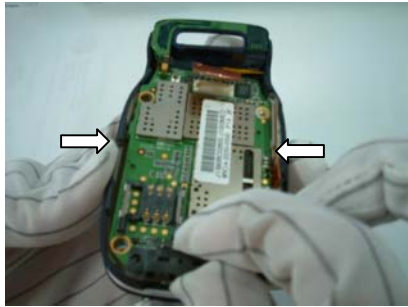

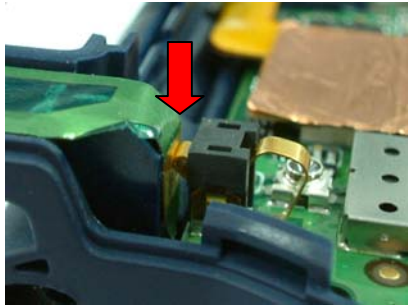
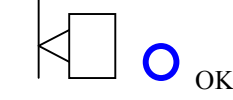
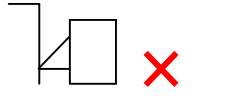
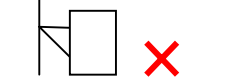
#	Figure	Instruction	Note
11	 <p data-bbox="612 667 715 703"><i>Fig 2.11</i></p>	<p data-bbox="916 327 1190 488">Place the Flexfilm into the cavity of Upper Outside Cover Assy as shown at the picture. (Fig 2.11)</p>	
12	 <p data-bbox="612 1070 715 1106"><i>Fig 2.12</i></p>	<p data-bbox="916 730 1209 891">Press on the top of Main Display Assy to make it fit tightly into the Upper Outside Cover Assy. (Fig. 2.12)</p>	<p data-bbox="1238 730 1477 922">Press until a click is heard, and then the Sub PCB should fit tightly into the Upper outside Cover Assy.</p>
13	 <p data-bbox="612 1473 715 1509"><i>Fig 2.13</i></p>	<p data-bbox="916 1133 1181 1326">Position the Flex film Plate on the cavity of Upper Outside Cover Assy, with a pair of tweezers, as shown in the picture. (Fig 2.13)</p>	
14	 <p data-bbox="612 1877 715 1912"><i>Fig 2.14</i></p>	<p data-bbox="916 1536 1209 1697">Position the Upper Inside Cover Assy into the Upper Outside Cover Assy, as shown at the picture. (Fig 2.14)</p>	<p data-bbox="1238 1536 1477 1796">Make sure the Vibrator, Magnet, and Flex film Plate has been mounted correctly before you reassemble the Upper Inside Cover Assy.</p>




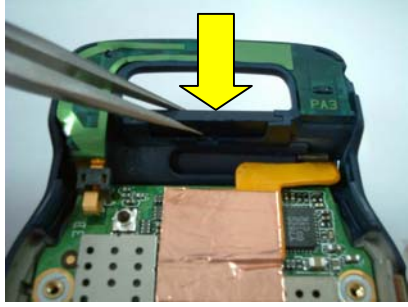
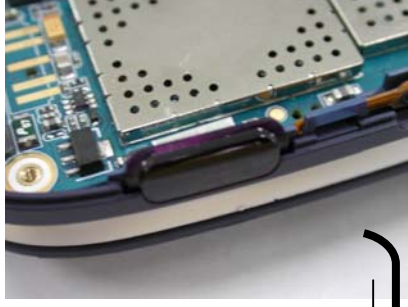

#	Figure	Instruction	Note
15	 <p data-bbox="612 667 718 703">Fig 2.15</p>	<p data-bbox="914 322 1203 622">Mount the Upper Inside Cover Assy into the Upper Outside Cover Assy. Start on the top and press on each side (follow the arrow indication) of it with your fingers until it fits tightly. (Fig 2.15)</p>	<p data-bbox="1236 322 1430 454">Arrows indicate where to press A click sound should be heard</p>
16	 <p data-bbox="612 1070 718 1106">Fig 2.16</p>	<p data-bbox="914 725 1203 891">Tighten the 4 screws, in the same order as the arrows in the picture. start with No.1 to No.4. (Fig 2.16)</p>	
17	 <p data-bbox="612 1467 718 1503">Fig 2.17</p>  <p data-bbox="612 1937 718 1973">Fig 2.18</p>	<p data-bbox="914 1122 1203 1288">Position the Board to board Flexfilm on the cavity of Lower Inside Cover Assy, as shown at the picture. (Fig 2.17)</p>	<p data-bbox="1236 1525 1461 1758">Make sure that the Board to board flexfilm is in the correct position, according to the picture. (Fig 2.18)</p>







#	Figure	Instruction	Note
18	 <i>Fig 2.19</i>	Press the Lower Inside Cover Assy as shown at the picture. Push the Upper Outside Cover Assy onto the Lower Inside Cover Assy. (Fig 2.19)	Important that the angle of the phone is the same as in the picture.
19	 <i>Fig 2.20</i>	Use a pair of tweezers to press the Hinge Mechanism. Assemble the Upper Outside cover Assy and the Lower Inside Cover Assy. (Fig 2.20)	Be careful, do not harm the cover.
20	 <i>Fig 2.21</i>	Position the Keypad inside the Lower Inside Cover Assy. (Fig 2.21)	

#	Figure	Instruction	Note
21	 <p data-bbox="612 667 718 703">Fig 2.22</p>  <p data-bbox="612 1037 718 1072">Fig 2.23</p>  <p data-bbox="612 1402 718 1438">Fig 2.24</p>	<p data-bbox="912 324 1203 658">Place the Main PCB in the Lower Inside Cover Assy. Press the Main PCB under the Snap hooks, as the arrow indication shows on the picture. Press on the Main PCB to make it fit correctly. (Fig 2.22)</p> <p data-bbox="912 725 1203 824">Mount the Sidekey FPC in the cavity in the Rear Cover Assy.</p> <div data-bbox="970 1088 1203 1438"> <p data-bbox="1040 1088 1203 1120">Antenna Conn.</p>    </div>	<p data-bbox="1235 725 1484 860">Make sure that the Sidekey FPC is positioned correctly. (Fig 2.23)</p> <p data-bbox="1235 1097 1461 1294">Make sure that the antenna connector and antenna flex film is connected well. (Fig 2.24) See picture as left.</p>






#	Figure	Instruction	Note
22	 <p data-bbox="612 667 715 703">Fig 2.25</p>	<p data-bbox="914 327 1198 591">Connect the Flexfilm (BTB to FPC) to the board to board connector with your fingers. Apply the Conductive Copper Film, as shown in the picture. (Fig 2.25)</p>	
23	 <p data-bbox="612 1070 715 1106">Fig 2.26</p>	<p data-bbox="914 730 1190 824">Mount the Top Cover into the Lower Inside Cover Assy. (Fig 2.26)</p>	
24	 <p data-bbox="612 1473 715 1509">Fig 2.27</p>	<p data-bbox="914 1133 1198 1263">Mount the IrDA Window into the Lower Inside Cover Assy with your fingers. (Fig 2.27)</p>	<p data-bbox="1236 1133 1477 1263">The IrDA Window is easy to scratch. Do not use a pair of tweezers.</p> <p data-bbox="1236 1294 1477 1525">Do not invert the IrDA Window when you mount it. See description for position of mounting in the picture.</p>
25	 <p data-bbox="612 1877 715 1912">Fig 2.28</p>	<p data-bbox="914 1536 1198 1666">Mount the Sidekey into the Lower Inside Cover Assy with a pair of tweezers. (Fig 2.28)</p>	<p data-bbox="1236 1536 1477 1800">Do not invert the Sidekey when you mount it. (The longer pin should be down) See description for position of Sidekey, in the picture.</p>



#	Figure	Instruction	Note
26	 <p data-bbox="612 667 718 703"><i>Fig 2.29</i></p>	Position the Rear Cover Assy at a 30° on the top of Lower Inside Cover Assy, according to the picture. (Fig. 2.29)	Make sure that the Rear Cover Assy extends over the Lower Inside Cover Assy as shown by the red circle.
27	 <p data-bbox="612 1070 718 1106"><i>Fig 2.30</i></p>	Press on each side of it with your fingers to make it fit tightly. (Fig 2.30)	Arrows indicate where to press
28	 <p data-bbox="612 1467 718 1503"><i>Fig 2.31</i></p>	Tighten the 4 screws, according to the arrow incation No.1 to No.4. (Fig 2.31)	Make sure the Top Cover, IrDA Window, and Sidekey will be correct positioned before you tighten the 4 screws.
29	 <p data-bbox="612 1863 718 1899"><i>Fig 2.32</i></p>	Mount the Antenna/Hinge Cover. (Fig 2.32)	



#	Figure	Instruction	Note
30	 <p><i>Fig 2.33</i></p>	Position the Exchange cover onto the Upper Outside Cover Assy, Push the exchange cover (1) and press it (2) (Fig 2.33)	Follow the arrows on the picture.
31	 <p><i>Fig 2.34</i></p>	Connect the Battery. (Fig 2.34)	
32	 <p><i>Fig 2.35</i></p>	Assemble the Battery Cover. (Fig 2.35)	

3 Replacement of Mechanical Parts



3.1 Upper Inside Assy

Process tools

- Pair of Tweezers.

Instruction

- Disassemble the phone as described in 1 Disassembly (page 2-7), follow steps 1-19.

#	Figure	Instruction	Note
1	 <p><i>Fig 3.1.1</i></p>	Remove the Vibrator Assy by positioning a pair of tweezers under the flywheel and lift. (Fig 3.1.1)	
2	 <p><i>Fig 3.1.2</i></p>	Take a new Upper Inside Cover Assy and mount the Vibrator Assy. (Fig 3.1.2)	Do not press on the flywheel, it can cause damage on the vibrator.

- Assemble the phone as described in 2 reassembly (page 14-20), follow steps 13-34.

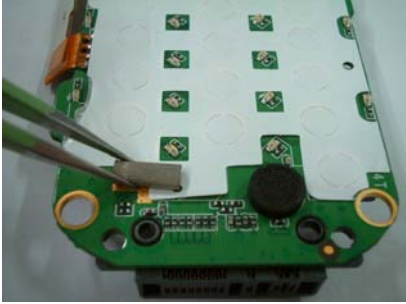
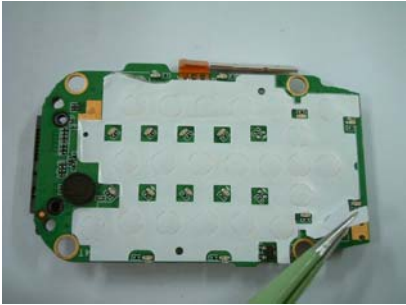
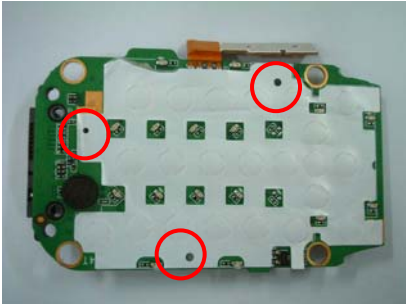
3.2 Dome Foil

Process tools

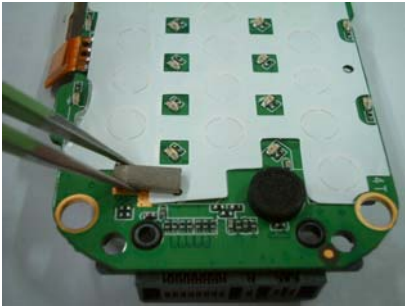
- Pair of Tweezers.

Instruction

- Disassemble the phone as described in 1 Disassembly (page 2-5), follow steps 1-13.

#	Figure	Instruction	Note
1	 <p><i>Fig 3.2.1</i></p>	Remove the Conductive Sponge with a pair of tweezers. (Fig 3.2.1)	
2	 <p><i>Fig 3.2.2</i></p>	Remove the old Dome foil, with a pair of tweezers. (Fig 3.2.2)	Do not touch the dome and PCB.
3	 <p><i>Fig 3.2.3</i></p>	Replace the new Dome foil on the PCB. Aim the dome foil according to the guide holes on the PCB as shown in the picture. (Fig 3.2.3)	Do not touch the dome foil or PCB. Clean the PCB surface from glue and dust. Always use a pair of tweezers.



#	Figure	Instruction	Note
4	 <p data-bbox="608 667 719 703"><i>Fig 3.2.4</i></p>	Mount the Conductive Sponge into the correct position as shown in the picture. (Fig 3.2.4)	

- Assemble the phone as described in 2 reassembly (page 16-20), follow steps 20-32.

3 Display assembly

Process tools

- Tweezers.
- Flex Film Assembly tool.

Instructions

Note:

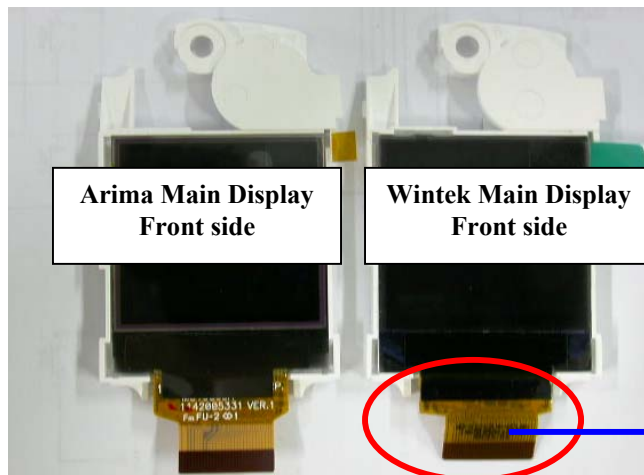
Today we have displays from two different vendors, Wintek and Arima Display.

It is important that the main display and sub display in the phone are from the same vendor.

This means that if you have a main display from Wintek it requires a sub display from Wintek as well in order to get functionality.

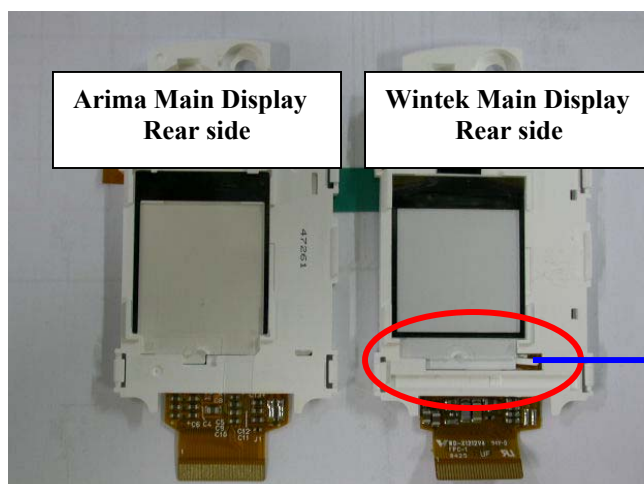
See instruction below how to identify the different variants of displays:

LCD	Main LCD	Sub LCD	Result
Vendor	Arima Display	Arima Display	OK
	Arima Display	Wintek	X
	Wintek	Arima Display	X
	Wintek	Wintek	OK

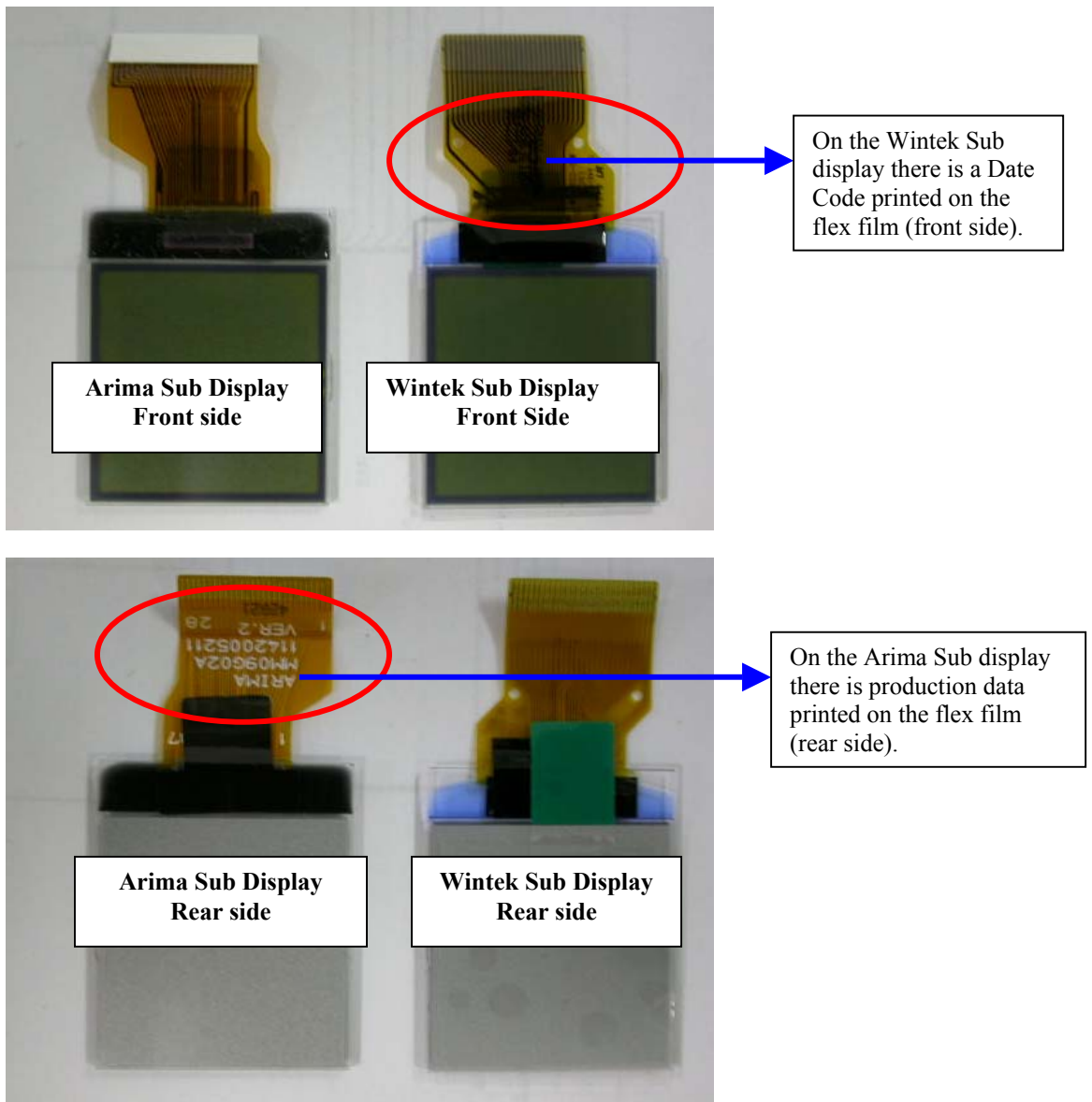


Date Code:
 Ex. 32C21/04
 32: Week
 C: Factory
 21: Line No.
 04: Year
 (The date code is W432)

Make sure that this data is printed on the Flex film on the Main Display from Wintek (front side).



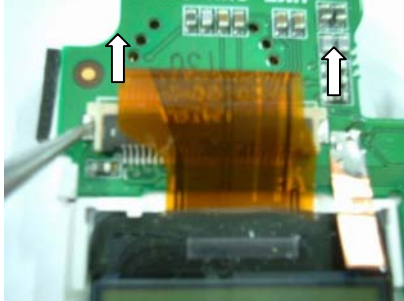

On the Wintek display there is significant differences in the marked area compared to the Arima Display (Rear side).

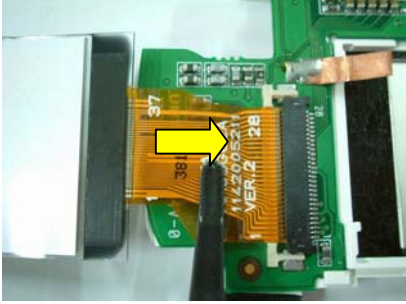
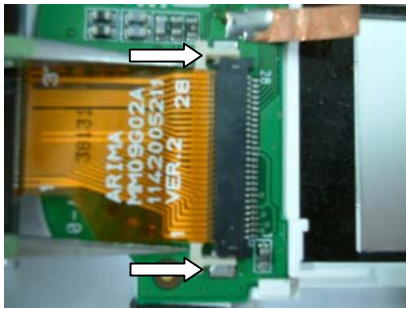
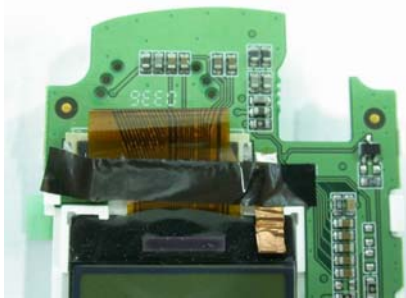


NOTE! When using and replacing an Wintek's LCD, please do not forget to upgrade the software to R6C . Otherwise, the phones will show no display (Wintec is only working with R6C SW).

3.2.1 Sub Display

- Disassemble the phone as described in 1 Disassembly (page 2-8), follow steps 1-23.




#	Figure	Instruction	Note
1	 <p style="text-align: center;"><i>Fig 3.3.1</i></p>	Release the Sub Display connector by pulling the ZIF-connecter lock upwards. (Fig 3.3.1)	Be careful so you don't damage the LCD flex film.
2	 <p style="text-align: center;"><i>Fig 3.3.2</i></p>	Remove the Sub Display flex film with a Flex film assembly tool. (Fig 3.3.2)	
3		Pick up a new Sub Display.	Avoid any contact with all surfaces. Use gloves.

#	Figure	Instruction	Note
4	 <p style="text-align: center;"><i>Fig 3.3.3</i></p>	Mount the Sub display flex film in the Sub Display connector with the Flex film assembly tool. (Fig 3.3.3)	
5	 <p style="text-align: center;"><i>Fig 3.3.4</i></p>	Close the ZIF-connector with a pair of tweezers as shown at the picture. (Fig 3.3.4)	Be careful so you don't damage the Sub display flex film.
6	 <p style="text-align: center;"><i>Fig 3.3.5</i></p>	Apply the Sub LCD Connector Tape (Fig 3.3.5)	





- Assemble the phone as described in chapter 2 reassembly (page 11-20), follow steps 10-32.

3.2.2 Main Display Assy

- Disassemble the phone as described in 1 Disassembly (page 2-10), follow steps 1-29.

#	Figure	Instruction	Note
1	 <p><i>Fig 3.3.6</i></p>	Remove the Earphone Assy with a pair of tweezers by lifting it upwards. (Fig. 3.3.6)	Do not touch the spring connectors.
2	 <p><i>Fig 3.3.7</i></p>	Remove the Load Speaker (Polyphonic) Assy with a pair of tweezers. (Fig. 3.3.7)	Do not touch the spring connectors.
3		Pick up a new Main Display Assy.	Avoid any contact with all surfaces. Use gloves.
4	 <p><i>Fig 3.3.8</i></p>	Mount the Load Speaker (Polyphonic) Assy in the cavity with the spring connectors facing upwards. (Fig. 3.3.8)	Do not press on the spring connectors.



#	Figure	Instruction	Note
5	 <p><i>Fig 3.3.9</i></p>	Apply the Earphone gasket in the cavity. (Fig 3.3.9)	Clean the Earphone gasket of residual in the cavity clearly before apply it.
6	 <p><i>Fig 3.3.10</i></p>	Mount the Earphone Assy in the cavity with the spring connectors facing upwards. (Fig. 3.3.10)	Do not press on the spring connectors.
7	 <p><i>Fig 3.3.11</i></p>	Apply the Earphone outer gasket (Fig 3.3.11)	
8	 <p><i>Fig 3.3.12</i></p>	Apply the Display gasket. (Fig 3.3.12)	

- Assemble the phone as described in 2 reassembly (page 11-20), follow steps 10-32.

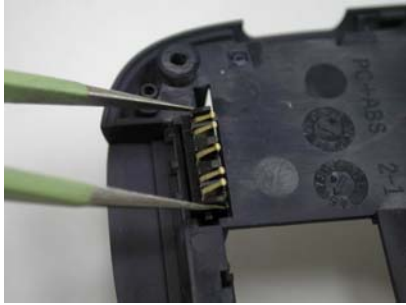

3.3 Battery Connector

Process tools

- Pair of tweezers.

Instruction

- Disassemble the phone as described in 1 Disassembly (page 2-3), follow steps 1-5.

#	Figure	Instruction	Note
1	 <p style="text-align: center;"><i>Fig 3.4.1</i></p>	Use a pair of tweezers to remove the Battery Connector from the Rear Cover Assy. (Fig. 3.4.1)	Be careful not to damage the spring connectors.
2		Pick up a Battery Connector with a pair of tweezers	Make sure that the Battery Connector not is bend or damage in any way.
3	 <p style="text-align: center;"><i>Fig 3.4.2</i></p>	Mount the Battery Connector into the cavity in the Rear Cover Assy. (Fig. 3.4.2)	Make sure that the Battery Connector is fitting correct and that it is not damage in any way. If the connector is bend or it does not fit correct, replace it.

- Assemble the phone as described in 2 reassembly (page 18-20), follow steps 26-32.

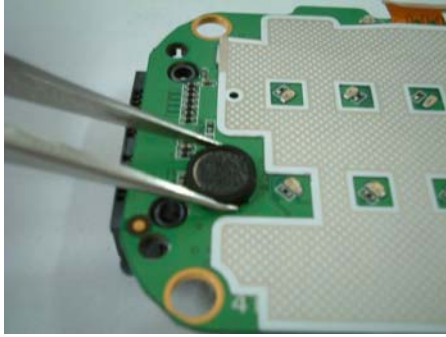
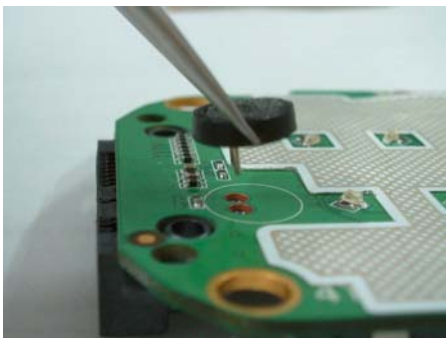
3.4 Microphone Assy

Process tools

- Pair of tweezers.

Instruction

- Disassemble the phone as described in 1 Disassembly (page 2-5), follow steps 1-13.

#	Figure	Instruction	Note
1	 <p style="text-align: center;"><i>Fig 3.5.1</i></p>	Remove the Microphone Assy by using a pair of tweezers. (Fig. 3.5.1)	
2		Pick up the new Microphone Assy with a pair of tweezers.	
3	 <p style="text-align: center;"><i>Fig 3.5.2</i></p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; margin-right: 5px;"></div> <div style="margin-right: 5px;">Microphone</div> </div> <div style="margin-bottom: 10px;"> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 100px; height: 15px; margin-right: 5px;"></div> <div style="margin-right: 5px;">System Connector</div> <div style="margin-left: 20px; color: blue; font-size: 20px;">○</div> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; margin-right: 5px;"></div> <div style="margin-right: 5px;">Microphone</div> </div> <div style="margin-bottom: 10px;"> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 15px; margin-right: 5px;"></div> <div style="margin-right: 5px;">System Connector</div> <div style="margin-left: 20px; color: red; font-size: 20px;">✗</div> </div> </div>	Mount the Microphone Assy in the Microphone Connector, located on the Main PCB. (Fig 3.5.2)	Make sure that the polarity is correct. (See picture and explanation below.)

- Assemble the phone as described in 2 reassembly (page 17-20), follow steps 21-32.

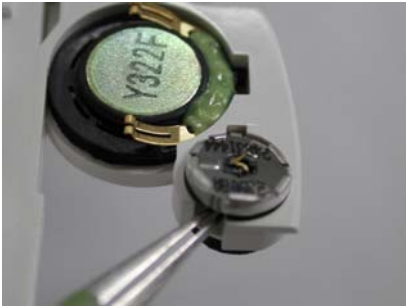


3.5 Earphone Assy

Process tools

- Pair of tweezers.

Instruction

- Disassemble the phone as described in 1 Disassembly (page 2-10), follow steps 1-29.

#	Figure	Instruction	Note
1	 <p style="text-align: center;"><i>Fig 3.6.1</i></p>	Remove the Earphone Assy with a pair of tweezers by lifting it upwards. (Fig. 3.6.1)	Do not touch the spring connectors.
2	 <p style="text-align: center;"><i>Fig 3.6.2</i></p>	Apply the Earphone gasket in the cavity. (Fig 3.6.2)	Clean the residual of Earphone gasket in the cavity clearly before apply it.
3		Pick up a new Earphone Assy with a pair of tweezers.	
4	 <p style="text-align: center;"><i>Fig 3.6.3</i></p>	Mount the Earphone Assy in the cavity with the spring connectors facing upwards. (Fig 3.6.3)	Do not press on the spring connectors.

- Assemble the phone as described in 2 reassembly (page 11-20), follow steps 1-32.


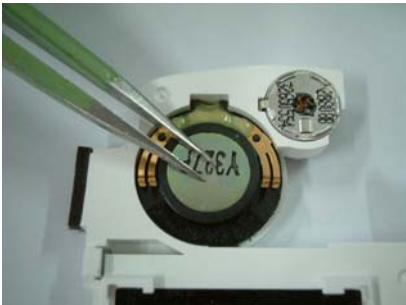
3.6 Load Speaker Assy (Polyphonic)

Process tools

- Pair of tweezers.

Instruction

- Disassemble the phone as described in 1 Disassembly (page 2-10), follow steps 1-29.

#	Figure	Instruction	Note
1	 <p><i>Fig 3.7.1</i></p>	Remove the Load Speaker Polyphonic Assy with a pair of tweezers. (Fig. 3.7.1)	Do not touch the spring connectors.
2		Pick up a new Load Speaker Polyphonic with a pair of tweezers.	
3	 <p><i>Fig 3.7.2</i></p>	Mount the Load Speaker Polyphonic Assy in the cavity with the spring connectors facing upwards. (Fig. 3.7.2)	Do not press on the spring connectors.

- Assemble the phone as described in 2 reassembly (page 11-20), follow steps 1-32.



4 Vibrator Assy

Process tools

- Pair of tweezers.

Instruction

- Disassemble the phone as described in 1 Disassembly (page 2-7), follow steps 1-19.

#	Figure	Instruction	Note
1	 <p style="text-align: center;"><i>Fig3.8.1</i></p>	Remove the Vibrator Assy by lifting in the vibrator Coating, with a pair of tweezers . (Fig. 3.8.1)	
2		Pick up a New vibrator Assy.	
3	 <p style="text-align: center;"><i>Fig 3.8.2</i></p>	Mount the Vibrator Assy with the help of a pair of tweezers, and position it in the cavity of the Upper Inside Assy. (Fig 3.8.2)	Press exactly as shown at the picture. Press the vibrator unit it reaches the bottom of the cavity. Do not press on the flywheel, it can cause damage on the vibrator.

- Assemble the phone as described in 2 reassembly (page 14-20), follow steps 13-32.


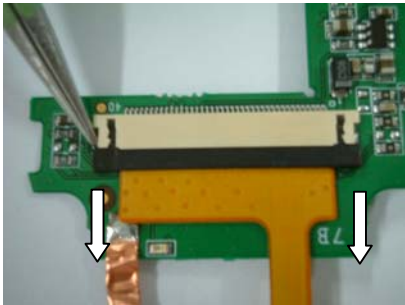
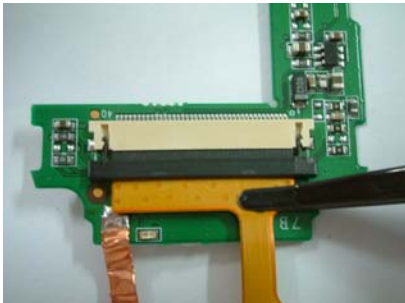
4.1 Flexfilm (BTB to FPC) & Upper PCB Assy

Process tools



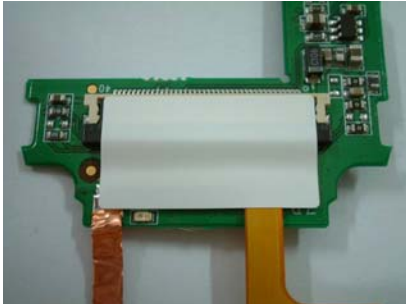
- Pair of tweezers.
- Flex Film Assembly tool.

Instruction

- Disassemble the phone as described in 1 Disassembly (page 2-10), follow steps 1-29.

#	Figure	Instruction	Note
1	 <p><i>Fig 3.9.1</i></p>	Remove the Tape/Zif Connector with a pair of tweezers. (Fig. 3.9.1)	
2	 <p><i>Fig 3.9.2</i></p>	Release the Flexfilm (BTB to FPC) connector by pulling the ZIF-connector lock upwards with a pair of tweezers, as shown at the picture. (Fig 3.9.2)	Be careful so you don't damage the Flexfilm.
3	 <p><i>Fig 3.9.3</i></p>	Remove the Flexfilm (BTB to FPC) with a Flex film Assembly tool. (Fig 3.9.3)	



#	Figure	Instruction	Note
4		Pick up a New Flexfilm (BTB to FPC) or Upper PCB Assy.	
5	 <p style="text-align: center;"><i>Fig 3.9.4</i></p>	Mount the Flexfilm (BTB to FPC) in the Sub PCB Zif-connector with a Flex film Assembly tool. (Fig 3.9.4)	
6	 <p style="text-align: center;"><i>Fig 3.9.5</i></p>	Close the ZIF-connector with a pair of tweezers as shown at the picture. (Fig 3.9.5)	Be careful so you don't damage the LCD flex film. Do not mount the Flexfilm in the wrong direction.
7		Pick up a new Tape/Zif connector.	
8	 <p style="text-align: center;"><i>Fig 3.9.6</i></p>	Apply the Tape/Zif connector with a pair of tweezers. (Fig 3.9.6)	

- Assemble the phone as described in 2 reassembly (page 11-20), follow steps 1-32.

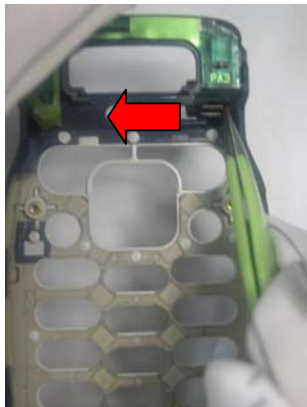

4.2 Hinge Insert

Process tools

- Pair of tweezers.

Instruction

- Disassemble the phone as described in 1 Disassembly (page 6-6), follow steps 16-17.

#	Figure	Instruction	Note
1	 <p><i>Fig3.10.1</i></p>	Remove the Hinge Insert from the Lower Inside Cover Assy with a pair of tweezers as shown at the picture. (Fig 3.10.1)	
2		Pick up a new Hinge Insert.	
3	 <p><i>Fig3.10.2</i></p>	Mount the Hinge Insert to the Lower Inside Cover Assy with a pair of tweezers as shown at the picture. (Fig 3.10.2)	

- Assemble the phone as described in 2 reassembly (page 15-20), follow steps 16-32.

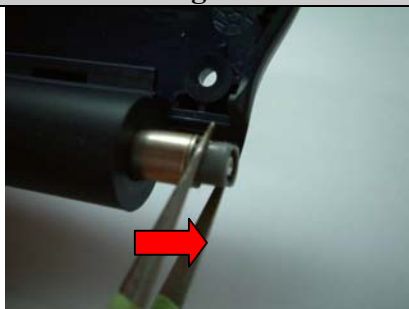
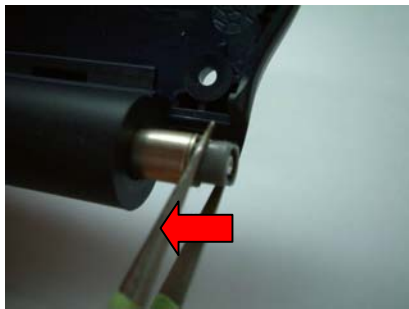
4.3 Hinge Mechanism

Process tools

- Pair of tweezers.

Instruction

- Disassemble the phone as described in 1 Disassembly (page 6-6), follow steps 15-17.

#	Figure	Instruction	Note
1	 <p><i>Fig 3.11.1</i></p>	Remove the Hinge Mechanism from the Upper Outside Cover Assy with a pair of tweezers. (Fig3.11.1)	
2		Pick up a new Hinge Mechanism.	
3	 <p><i>Fig 3.11.2</i></p>	Mount the Hinge Mechanism into the Upper Outside Cover Assy with a pair of tweezers. (Fig3.11.2)	

- Assemble the phone as described in 2 reassembly (page 16-20), follow steps 17-32.

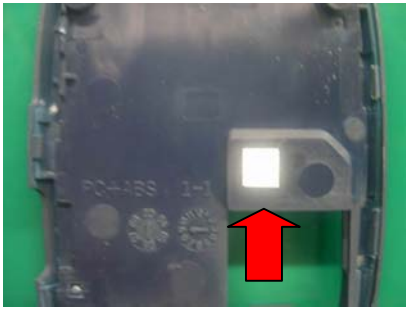
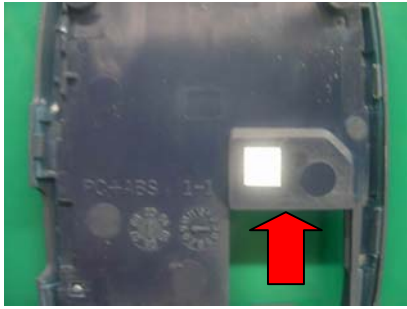
4.4 Water Damage Indicator

Process tools

- Pair of tweezers.

Instruction

- Disassemble the phone as described in 1 Disassembly (page 2-3), follow steps 1-5.

#	Figure	Instruction	Note
1	 <p><i>Fig3.12.1</i></p>	Remove the Water Damage Indicator from the Rear Cover Assy with a pair of tweezers. (Fig 3.12.1)	
2		Pick up a new Water Damage Indicator.	
3	 <p><i>Fig 3.12.2</i></p>	Apply the Water Damage Indicator with a pair of tweezers. (Fig 3.12.2)	

- Assemble the phone as described in 2 reassembly (page 19-20), follow steps 28-32.

4.5 Magnet

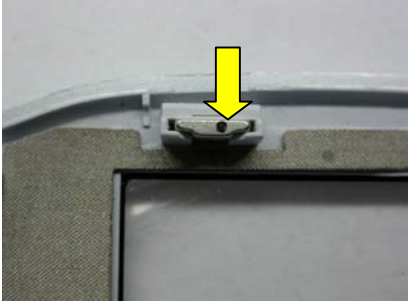

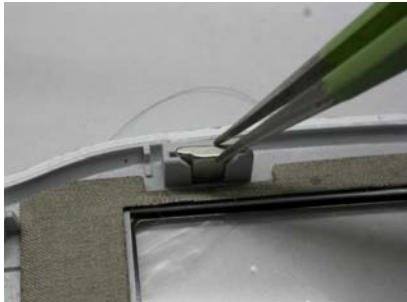
Symptom

- If the background light is turned on when the shell is closed, or if the Main display takes long time to load up when the shell is opened, reverse the magnet according to the instruction below.

Process tools

- Pair of tweezers.

Instruction

#	Figure	Instruction	Note
1	 <p><i>Fig 3.13.1</i></p>	Make a mark on the Magnet as shown in the picture. (Fig 3.13.1)	Make sure the magnet is not mechanically damaged, dirty or oxidized.
2	 <p><i>Fig 3.13.2</i></p>	Remove the Magnet from the cavity in Upper Inside Cover, use a pair of tweezers. (Fig 3.13.2).	
3	 <p><i>Fig 3.13.3</i></p>	Reverse the Magnet and replace it in the cavity. (The mark is at the bottom) (Fig 3.13.3)	If the problem still occurs, replace Upper Inner Cover. See chapter 3.1 Upper inside Cover



4.6 Nameplate

Process tools

- Pair of tweezers.

Instruction

- Flip the cover.

#	Figure	Instruction	Note
1	 <p style="text-align: center;"><i>Fig3.14.1</i></p>	Remove the old Nameplate from the Lower Inside Cover Assy with a pair of tweezers. (Fig 3.14.1)	Be careful so you don't scratch the Lower Inside Cover Assy.
2		Pick up a new Nameplate.	Don't reuse used Nameplate
3	 <p style="text-align: center;"><i>Fig 3.14.2</i></p>	Apply the Nameplate with a pair of tweezers. (Fig 3.14.2)	Make sure that the surface is clean before applying the new Nameplate.

5 Process Tools for Label

- Hot air blower
- Pair of tweezers


Instruction

This instruction should be used when you intend to exchange an old Label Markingplate or mount a new one.

1. Heat up the Label Markingplate with a hot air blower.
2. Carefully remove the label, make sure that all the residue is remove. Do not scratch the frame.

Note! Only one Label Markingplate is allowed in the battery cavity.

3. Printing: The text must be fully readable visually and through bar code readers.

#	Figure	Instruction	Note
1	 <p style="text-align: center;"><i>Fig 4.1</i></p>	Take the new Label Markingplate and place it in the battery cavity. The Label Markingplate should be centred and parallel to the sides of the cavity. (Fig. 4.1)	Make sure that there are no air bubbles under the label.



6 Revision History

Rev.	Date	Changes / Comments
A	2003-10-30	First release
B	2004-04-29	Added chapter 3.13 Magnet and chapter 3.14 Nameplate
C	2004-07-28	Updated chapter 2 Reassemble (page 13, "Sub LCD connector tape), 3.3 Display assembly (page 25 "LCD Connector tape", page 27 "Earphone outer gasket") and 3.6 Earphone Assy. (page 30 "Earphone gasket")
D	2004-10-07	Updated chapter 3 Display Assembly
E	2004-10-25	Page 25 (reg the the two displays "Arima and Wintec" LCD), just adding the missing (but important) information: " <i>Don't forget to update to SW R6C SW when using Wintec LCD</i> ".