GSM TELEPHONE GT-S8500

SERVICE Manual

GSM TELEPHONE CONTENTS

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GSPN (Global Service Partner Network)

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## 7. Level 2 Repair

### 7-1. Assembly

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<tr>
<td>1</td>
<td>Assemble CONN.</td>
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<tr>
<td>2</td>
<td>Screw PBA 3-point after Land PBA</td>
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<td>3</td>
<td>Assemble FPCB</td>
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<tr>
<td>4</td>
<td>Assemble Camera FPCB</td>
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Assemble FPCB not to get loose

Assemble FPCB not to get loose
5. Assemble speaker module

Speaker module lands, pushing the left side first.

6. Assemble FPCB

Attach FPCB to outline

7. Assemble REAR

Land REAR on PBA and screw REAR 2-point

8. Assemble intenna

Insert intenna
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<tr>
<td>9</td>
<td>Screw intenna 2-point</td>
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<tr>
<td>10</td>
<td>Assemble front key pad</td>
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<tr>
<td>11</td>
<td>Assemble intenna cover</td>
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<tr>
<td>12</td>
<td>Screw intenna cover</td>
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- Insert intenna's cover
- Screw intenna cover 2-point
### 7. Level 2 Repair

<table>
<thead>
<tr>
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<tr>
<td>13</td>
<td>Slide Case body down</td>
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<tr>
<td>14</td>
<td>Assemble upper Deco</td>
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<tr>
<td>15</td>
<td>Screw upper Deco 3-point</td>
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<tr>
<td>16</td>
<td>Assemble upper Deco cover</td>
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13. Slide Case body down
14. Assemble upper Deco
15. Screw upper Deco
16. Assemble upper Deco cover
### 7-2. Dissemble

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**Instructions:**
- Detach upper Deco's cover with pincette
- Unscrew upper Deco 3-point
- Pull upper Deco after hold it
- Slide the Case body up
### 7. Level 2 Repair

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<tr>
<td>8</td>
<td>Disassemble front key pad</td>
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**Unscrew REAR 4-point**

TO disassemble intenna’s cover, widen the hook of the intenna’s cover with disassembling knife.

**Disassemble intenna cover**

Pull intenna’s cover after hold it

**Disassemble front key pad**

Hold up key pad
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<td>Disassemble FPAB</td>
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- Unscrew intenna 2-point
- Pull intenna after holding it
- Hold the REAR up
- Detach FPCB with tweezers
### 7. Level 2 Repair

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- **Hold up the Camera cover right side**
- **Disassemble FPAB 2-point**

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- **Unscrew PBA 3-point**
- **Detach FPCB 2-point with tweezers**
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- Hold up PBA
- Detach FPCB 2-point with tweezers
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Please consult the GSPN website (Samsung Portal) for the most recent version of the product's part list.
4. Exploded View and Parts List

4-1. Cellular phone Exploded View
### 5-2. Cellular phone Parts list : GT-S8500BAASFR

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<td>MODULE-RCV/EAR-JACK(GT-S8500)</td>
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## 2. Specification

### 2-1. GSM General Specification

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<td>270.833kbp 3.692us</td>
<td>270.833kbp 3.692us</td>
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<td>576.9us 4.615ms</td>
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</thead>
<tbody>
<tr>
<td>5</td>
<td>33±2 dBm</td>
<td>5</td>
<td>33±2 dBm</td>
<td>0</td>
<td>30±3 dBm</td>
<td>0</td>
<td>30±3 dBm</td>
</tr>
<tr>
<td>6</td>
<td>31±2 dBm</td>
<td>6</td>
<td>31±2 dBm</td>
<td>1</td>
<td>28±3 dBm</td>
<td>1</td>
<td>28±3 dBm</td>
</tr>
<tr>
<td>7</td>
<td>29±2 dBm</td>
<td>7</td>
<td>29±2 dBm</td>
<td>2</td>
<td>26±3 dBm</td>
<td>2</td>
<td>26±3 dBm</td>
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<td>8</td>
<td>27±2 dBm</td>
<td>8</td>
<td>27±2 dBm</td>
<td>3</td>
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<td>4</td>
<td>22±3 dBm</td>
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<td>10</td>
<td>23±2 dBm</td>
<td>5</td>
<td>20±3 dBm</td>
<td>5</td>
<td>20±3 dBm</td>
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<td>6</td>
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</tr>
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<td>15</td>
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<td></td>
<td>15</td>
<td>0±5 dBm</td>
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<td>0±5 dBm</td>
</tr>
</tbody>
</table>
3. Operation Instruction and Installation

Main Function

- GSM(2G EDGE/GPRS) 850/900/1800/1900
- WCDMA(3G HSDPA) 900/2100
- 3.3" WVGA 16M OCTA (On Cell TSP AMOLED)
- 1GHz Application Processor
- Seamless Onebody
- 5M pixel AF Camera with Power LED Flash
- HD video Playing(Divx, Xvid)/Recording
- FM Radio with RDS and real time recording
- Bluetooth v3.0
- USB 2.0 FS / Wi-Fi 802.11n / GPS
- Music player : MP3/AAC/AAC+/eAAC+/WMA/AMR/MIDI/SP-MIDI/i-melody/WAV/MMF
- Accelerator Sensor / Proximity Sensor / G-sensor
- Touch WIZ 3.0 UI, Application store
- Voice & Motion UI
- SMS/MMS/Email/Video Messaging E-mail/Push E-mail(Exchange ActiveSync)
- Multi-touch
- Multi-task manager
- TV-OUT
- Navigation
- Voice recording
6. Level 1 Repair

6-1. S/W Download

6-1-1. Pre-requisite for S/W Downloading

- GT-S8500 Mobile Phone
- RF Test Cable : GH39-00985A
- Anyway JIG BOX : GH99-36900A
- Anyway JIG BOX Adaptor : GH44-01860A
- Test Cable : GH39-01290A
- Adapter : GH99-38251A
- Power supply (eg. Agilent E3632A or similar one)
- Downloader Program(Downloader V5.62)
- Binary files
- PC (Windows XP)

※ The settings for download.
6-1-2. S/W Downloader Program

1. Load the binary download program by executing the **Downloader V5.62**

2. Select "LSI6410" and Check "Full Download"

3. Load the file of Boot, Amss, Apps, Rsrc 1, Rsrc2, Factory FS from the folder that you saved the binary files. (Drag & Drop form file folder)

4. Click the "Port Search" when the download cable is connected to PC
5. Click download when the port ready.

6. When downloading is finished successfully, there is a "All files complete" message
7. Wait until the mobile is completely booting. It takes few minute
8. Check the bin ver. (*#197328640# → 2 → 1 → 2)
9. Reference Abbreviate

Reference Abbreviate

- **AAC**: Advanced Audio Coding.
- **AVC**: Advanced Video Coding.
- **BER**: Bit Error Rate
- **BPSK**: Binary Phase Shift Keying
- **CA**: Conditional Access
- **CDM**: Code Division Multiplexing
- **C/I**: Carrier to Interference
- **DMB**: Digital Multimedia Broadcasting
- **EN**: European Standard
- **ES**: Elementary Stream
- **ETSI**: European Telecommunications Standards Institute
- **MPEG**: Moving Picture Experts Group
- **PN**: Pseudo-random Noise
- **PS**: Pilot Symbol
- **QPSK**: Quadrature Phase Shift Keying
- **RS**: Reed-Solomon
- **SI**: Service Information
- **TDM**: Time Division Multiplexing
- **TS**: Transport Stream
1. Safety Precautions

1-1. Repair Precaution

- Repair in Shield Box, during detailed tuning. Take specially care of tuning or test, because specificity of cellular phone is sensitive for surrounding interference (RF noise).

- Be careful to use a kind of magnetic object or tool, because performance of parts is damaged by the influence of magnetic force.

- Surely use a standard screwdriver when you disassemble this product, otherwise screw will be worn away.

- Use a thicken twisted wire when you measure level. A thicken twisted wire has low resistance, therefore error of measurement is few.

- Repair after separate Test Pack and Set because for short danger (for example an overcurrent and furious flames of parts etc) when you repair board in condition of connecting Test Pack and tuning on.

- Take specially care of soldering, because Land of PCB is small and weak in heat.

- Surely tune on/off while using AC power plug, because a repair of battery charger is dangerous when tuning ON/OFF PBA and Connector after disassembling charger.

- Don't use as you pleases after change other material than replacement registered on SEC System. Otherwise engineer in charge isn't charged with problem that you don't keep this rules.
1-2. ESD (Electrostatically Sensitive Devices) Precaution

Several semiconductor may be damaged easily by static electricity. Such parts are called by ESD (Electrostatically Sensitive Devices), for example IC, BGA chip etc. Read Precaution below.

You can prevent from ESD damage by static electricity.

− Remove static electricity remained your body before you touch semiconductor or parts with semiconductor. There are ways that you touch an earthed place or wear static electricity prevention string on wrist.

− Use earthed soldering steel when you connect or disconnect ESD.

− Use soldering removing tool to break static electricity. , otherwise ESD will be damaged by static electricity.

− Don't unpack until you set up ESD on product. Because most of ESD are packed by box and aluminum plate to have conductive power, they are prevented from static electricity.

− You must maintain electric contact between ESD and place due to be set up until ESD is connected completely to the proper place or a circuit board.
8. Level 3 Repair

8-1. Block Diagram
8-2. PCB Diagrams

8-2-1. Top
8-2-2. Bottom
8-3. Flow Chart of Troubleshooting

Equipment

↑ Oscilloscope

↑ Digital Multimeter

↑ Power Supply

↑ + driver, Tweezer
8-3-1. Power On

- 'Power On' does not work
  - Check the current consumption
    - Current consumption $\geq 100$ mA
      - Yes
        - Check the Vbat Voltage
          - Voltage $\geq 3.3$ V
            - Yes
              - Check U602 (PMIC) and Power On Voltage
                - Check AP_PS_HOLD (TP) $\geq 2.8$ V
                  - Yes
                    - Check the clock signal at OSC600
                      - Freq = $32.768$ kHz
                        - Yes
                          - Check the initial operation
                            - END
                        - No
                          - Check the clock generation circuit (related to OSC600)
                            - Check the PMIC200
                              (if it has some problem, it is to be replaced.)
                          - No
                          - Check the PMIC200
                            (if it has some problem, it is to be replaced.)
                        - No
                        - Check the PMIC200
                          (if it has some problem, it is to be replaced.)
                    - No
                      - Check the PMIC200
                        (if it has some problem, it is to be replaced.)
                - No
              - No
            - No
          - No
        - No
    - No
  - No
  - Download again

- Charge the Battery
8-3-2. Initial

Level 3 Repair

Initial Failure

Yes

The pin #2,3 of U303 =
swing properly 1.8V and 0V?
The pin #9,10 of U303 =
swing properly 2.8V and 0V?

No

Check the U303 and UCP500
(if it has some problem, it is to be replaced.)

Yes

Test point 'AP_PS_HOLD'
and 'AP_N_RST_IN'(R603)=
"Low → High" ?

No

Check the U602
(if it has some problem, it is to be replaced.)

Yes

There is 32.768kHz wave
forms at the C264, C269,
and pin #1,2 of U304

No

Check the OSC600 and U304

Yes

There is 24MHz wave
forms at the C521 and
C522

No

Check the OSC500

Yes

The voltage is “High” at
the C617, C618, C621,
C629

No

Check the U602

Yes

LCD display is O.K

No

Check the LCD part

Yes

Sound is O.K

No

Check the Audio part

END
8-3-3. SIM

- **NO SIM**
  - **Yes**
    - Check the connection of the HDC404
      - **No**
        - Check the SIM socket
      - **Yes**
        - \( \geq 2.8V \) ?
          - **No**
            - Check U302
          - **Yes**
            - Check U302

- **Is there any signals at C429, C432, C427, C431**
  - **No**
    - Check U302
  - **Yes**
    - Check the voltage at C432
      - \( \geq 2.8V \) ?
        - **No**
          - Check U302
        - **Yes**
          - Check the voltage at C431, C432 \( \geq 2.8V \) ?
            - **No**
              - Check U602
            - **Yes**
              - END
8-3-4. Microphone

Check main microphone function in voice call receiver mode

- No
  - Check the Voltage at C218 = 2.8V
    - No
      - Resolder or change U203
    - Yes
      - Check component soldering status at C236,C240,C241,C242, ZD404,ZD405,L205
      - No
        - Resolder or change the components
      - Yes
        - Resolve or change the MIC200

- Yes
  - END
8-3-5. Ear Microphone

Check Ear microphone function

No

- Check the connection status of HDC200
  - No: Reconnect the HDC200
  - Yes: Check voltage level at R228=2.8V
    - No: Resolder or change U203
    - Yes: Check component soldering status at R229, TA200, C246, C249, L206, L207
      - No: Resolder or change the components
      - Yes: Check the Ear-Jack Module
        - Yes: END

Yes

- Check the connection status of HDC200
  - Yes: Check voltage level at R228=2.8V
    - No: Resolder or change U203
    - Yes: Check component soldering status at R229, TA200, C246, C249, L206, L207
      - No: Resolder or change the components
      - Yes: Check the Ear-Jack Module
        - Yes: END

END
8-3-6. SPK Part

Check speaker function.  
Play MP3 with maximum volume level.

No

Check the signal output of C232,C428,C430,.. No

Resolder or change U205

Yes

Check the signal output of C232,C428,C430,.., again Yes

No

Reconnect HDC404

No

Resolder or change UCP500

Check the connection of HDC404 No

Yes

Replace the speaker module.

Yes

END
8-3-7. Receiver Part

Check receiver function in voice call receiver mode

Yes

Check the signal of V200 and V201.

Yes

Check the signal of V200 and V201, again.

Yes

Check the connection of HDC200

Yes

Replace the Receiver-Earjack ass’y

Yes

End

No

Resolder or change U205

No

Resolder or change U302-1

No

Reconnect HDC200
8-3-8. BT/WIFI

Check BT or WiFi function ON

Yes

Check the Voltage at C160 = 2.8V

Yes

Check 38.4MHz clock at C185 point

Yes

Check 32.7KHz clock at R513 point

Yes

Check the Voltage of L116 = 1.2V

Yes

Check the status at C163, L106, Ant102

Yes

Resolder or Replace U103

Yes

Enable BT function

Check AP PMIC(U602)

Check OSC100

Check OSC600

Resolder or change L116

Resolder or Replace C163, L106, Ant102

END
8-3-9. FM radio

- **FM Radio does not work**
  - Yes
  - Check the connection at HDC200
    - No
      - connect earjack ASS'Y to HDC200
    - Yes
  - Check the Audio signal at L201, L202
    - Yes
      - Check ear-phone
    - No
      - Check the Audio signal at C228, C229
        - Yes
          - Check U205
        - No
          - R513 = 32KHz ?
            - Yes
              - change U102
            - No
              - Check U602
8-3-10. LCD

"LCD is still off" after PWR-ON

Check the CONNECTION OF HDC400

Yes

NO

Reconnect the HDC400

Yes

CHECK THE SOLDER OF EMI FILTER F400 ~ F405

NO

RESOLDER EMI FILTER

Yes

CHECK VCC_3.2V(#42),VLCD_1.8V(#16),VBAT(#13)

NO

Check PMIC200(U602)

Yes

CHECK THE LCD MODULE

Yes

END
8-3-11. TSP

"Touch Screen" does not work

Yes

Check the OCTA connector on Main PBA

Yes

Check the TSP connector on OCTA Module

Yes

U400 Pin 6 = 2.8V and Pin 8 = 3.3V

Yes

Replace the OCTA module

END

No

No

No

Reconnect the OCTA Module

Reconnect the TSP Connector

Resolder or change U400

U400 Pin 6 = 2.8V and Pin 8 = 3.3V
8-3-12. 5M CAM

"Camera" function does not work

Yes

Check the Camera connector on Main PBA

Yes

U602 Pin E10, A8 = 2.8V, Pin A6, A10 = 1.8V, Pin D10, LX4 = 1.2V and U408 Pin 1 = 2.8V

No

Resolder U602, U408 or change PBA

Yes

F408 Pin 4 or HDC401 pin 30 = 24MHz

No

Check C111 related to 24MHz

Yes

Replace the camera module

END
8-3-13. GSM850 RX

CONTINUOUS RX ON
RF INPUT : 190CH
AMP : -50dBm

NORMAL CONDITION

catch the channel?

NO

Check C118 ≤ -65dBm ?

YES

CHECK soldered CN100, C118, L102

NO

Check the Voltage at C120 = 2.85V ?

YES

U302, C341, C120 resolder or change

NO

Check both pad of C125 ≥ -65dBm ?

YES

F100 resolder or change

NO

Check component soldering status OK at C125, L104, L105 ?

YES

C125, L104, L105 resolder or change

NO

U302

{C314 = 2.2V ?}
& {C319 = 1.3V ?}
& {C360 = 2.3V ?}
& {C321 = 1.4V ?}

YES

U302 resolder or change

NO

Check the freq. at C300 :19.2MHz ?

YES

GSM850 Receiver is O.K?

NO

END

NO

U300 change or resolder

YES

U302 resolder or change
8-3-14. GSM900 RX

NORMAL CONDITION
- Catch the channel?
  - NO
  - YES
    - Check C118 $\leq -65$dBm?
      - NO
      - YES
        - CHECK soldered
          CN100, C118, L102
    - NO
      - Check the Voltage at
        C120 = 2.85V?
        - NO
        - YES
          - U302, C341, C120
            resolder or change
        - NO
          - Check both pad of L121
            $\geq -65$dBm?
            - NO
            - YES
              - F100
                resolder or change
            - NO
              - F101 CHECK
                pin6 or L110 $\geq -65$dBm?
                - NO
                - NO
                  - F101 CHECK
                    pin1,8 or L111 $\geq -65$dBm?
                    - NO
                    - NO
                      - F101
                        resolder or change
                    - YES
                      - YES
                        - Check component
                          soldering status OK at
                          L111, C141, C151?
                          - NO
                          - YES
                            - U302
                              (C314 = 2.2V ?)
                              & (C319 = 1.3V ?)
                              & (C380 = 2.3V ?)
                              & (C321 = 1.4V ?)
                              - NO
                              - YES
                                - Check the freq. at C300
                                  : 19.2MHz?
                                  - NO
                                  - YES
                                    - GSM900 Receiver is O.K?
                                      - NO
                                      - YES
                                        - END
                                        - END
                                      - YES
                                        - END
                                      - NO
                                        - U302
                                          resolder or change
                                  - NO
                                  - U302
                                    change or resolder
                                - YES
                                  - YES
                                    - U302
                                      resolder or change
8-3-15. DCS/PCS RX

CONTINUOUS RX ON
DCS RF INPUT : 698CH
PCS RF INPUT : 661CH
AMP : -50dBm

NORMAL CONDITION
catch the channel?

NO

YES

Check C118 ≤ -65dBm ?

NO

YES

Check the Voltage at
C120 = 2.85V ?

NO

YES

check both pad of C129
≥ -65dBm ?

NO

YES

Check component
soldering status OK at
C127, C130, L108 ?

NO

YES

U302, C341, C120
resolder or change

F100
resolder or change

C127, C130, L108
resolder or change

U302
resolder or change

U300
change or resolder

U302
resolder or change

DCS/PCS Receiver is O.K?

NO

YES

YES

U302
resolder or change

END
8-3-16. WCDMA Band1 RX

NORMAL CONDITION

- Catch the channel?
  - NO
  - YES

  Check C118 ≤ -65dBm?
  - NO
  - YES
    
    CHECK soldered CN100, C118, L102

  Check the Voltage at C120 = 2.85V?
  - NO
  - YES
    
    U302, C341, C120
    resolder or change

  F100 CHECK
  - NO
  - YES
  
  F100
  resolder or change

  Check component soldering status OK at L109, C131, C133?
  - NO
  - YES

  U302
  
  {C314 = 2.2V ?}
  & {C319 = 1.3V ?}
  & {C360 = 2.3V ?}
  & {C321 = 1.4V ?}
  
  NO
  YES

  U302
  resolder or change

  Check the freq. at C300 :19.2MHz?
  - NO
  - YES

  U300
  change or resolder

  W2100 Receiver is O.K?
  - NO
  - YES

  END

CONTINUOUS RX ON
RF INPUT : 10700CH
AMP : -50dBm
8-3-17. WCDMA Band8 RX

NORMAL CONDITION
catch the channel?

NO

Check C118 ≤ -65dBm ?

NO

Check the Voltage at C120 = 2.85V ?

NO

F100 CHECK
pin26 or L121 ≥ -65dBm?

YES

F100 CHECK
pin6 or L110 ≥ -65dBm?

YES

F101 CHECK
pin1,8 ≥ -65dBm?

YES

Check component soldering status OK at L111, C141, C151?

NO

NO

YES

U302, C341, C120
resolder or change

L121, L110
resolder or change

F101
resolder or change

L111, C141, C151
resolder or change

U302
resolder or change

U300
change or resolder

U302
resolder or change

END

CONTINUOUS RX ON
RF INPUT : 3013CH
AMP : -50dBm

F101 CHECK
pin1,8 ≥ -65dBm?

YES

CHECK soldered
CN100, C118, L102

U302, C341, C120
resolder or change

F100
resolder or change

U302
resolder or change

F100
resolder or change

U300
change or resolder

U302
resolder or change

YES

W900 Receiver is O.K?

NO

YES

END
8-3-18. GSM850/900 TX

- **F100 pin 3:** about 30 dBm?
  - NO: C104 about: 30 dBm
  - YES: CN100,C118, L102 check & change

- **C104**
  - YES: F100 change or resolder
  - NO: C105=3.8~4.2V?
    - NO: Check DC bias
    - YES: U100 change or resolder
  - NO: C103 = about -5dBm?
    - YES: YES
    - NO: YES

- **C196 = about -5dBm?**
  - NO: U302 resolder or change
  - YES: YES

- **U302**
  - {C314 = 2.2V ?}
  - {C316 = 1.3V ?}
  - {C360 = 2.3V ?}
  - {C321 = 1.4V ?}
  - NO: U302 resolder or change
  - YES: Check the freq. at C300:19.2MHz?
    - NO: U300 change or resolder
    - YES: Soldering state of U302 is O.K?
      - NO: U502 resolder or change
      - YES: END
8-3-19. DCS/PCS TX

- Check the freq. at C300: 19.2MHz?
  - YES: U302 change or resolder
  - NO: U300 change or resolder

- Soldering state of U302 is O.K.?
  - YES: END
  - NO: U302 resolder or change

- U302:
  - C314 = 2.2V?
  - C316 = 1.3V?
  - C360 = 2.3V?
  - C321 = 1.4V?

- Check DC bias

- C107: about -5dBm?
  - YES: C107,C198,C108, C109,C110 change or resolder
  - NO: F100 change or resolder

- L100: about 30 dBm?
  - YES: U100 change or resolder
  - NO: L100 change or resolder

- C105 = 3.8~4.2V?
  - YES: U300 change or resolder
  - NO: Check DC bias

- CN100,C118, L102 check & change

- C120: 2.85V?
  - NO: F100 check & change
  - YES: U302 check & change

- F100 pin3: about 30 dBm?
  - YES: CN100,C118, L102 check & change
  - NO: U302 change or resolder

- CONTINUOUS TX ON CONDITION
  - TX POWER DAC: 14500 CODE APPLIED
    - DCS CH: 898
    - PCS CH: 661
    - RBW: 100kHz
    - VBW: 100kHz
    - SPAN: 10MHz
    - REF LEV: 10dBm
    - ATT: 20dB
8-3-20. WCDMA Band1 TX

CONTINUOUS TX ON CONDITION
TX POWER DAC: 120 CODE APPLIED
CH : 10700
RBW : 100kHz
VBW : 100kHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

F100 pin 3: about 20 dBm?

C120 : 2.85V?

CN100,C118,L103 check & change

L113 about : 20 dBm

C106,C143 = 3.8~4.2V?

Check DC bias

U101 pin 7 about : -5dBm?

C152: about : -5dBm

C152,C153,C154,F103 resolder or change

U302 {C314 = 2.2V ?} & {C316 = 1.3V ?} & {C360 = 2.3V ?} & {C321 = 1.4V ?}

Check the freq. at C300 :19.2MHz?

Soldering state of U302 is O.K?

END

U300 resolder or change

U302 resolder or change

U302 resolder or change

U302 resolder or change

U302 resolder or change
8-3-21. WCDMA Band8 TX

- **F100 pin3**: about 20 dBm?
  - NO: C120 : 2.85V?
    - NO: U302 check & change
    - YES: CN100,C118,L102 check & change
  - YES: L110 about : 20 dBm
    - NO: L122 about : 20 dBm
      - YES: F101 change or resolder
      - NO: C106,C143 = 3.8~4.2V ?
    - YES: U101 pin 1 about : -5dBm ?
      - NO: C149 about : -5dBm
        - YES: C149,C150,F102 change or resolder
        - NO: U202 \{ C314 = 2.2V ? \} & \{ C316 = 1.3V ? \} & \{ C360 = 2.3V ? \} & \{ C321 = 1.4V ? \}
        - NO: U302 resolder or change
        - YES: Check the freq. at C300 :19.2MHz ?
          - NO: U300 change or resolder
          - YES: Soldering state of U302 is O.K?
            - NO: U302 resolder or change
            - YES: END

CONTINOUS TX ON CONDITION
TX POWER DAC:120 CODE APPLIED
CH : 3013
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB
8-4. Service Schematics

- NC Point (Top View)

● : NC

UME200
■ : NC

UCP500

[Diagram of grid with NC markings for UCP500]
■ : NC

U302