

Equipment List, Mechanical

Applicable for J110 and J120

Contents

| | | |
|----------|--|-----------|
| 1 | General | 2 |
| 2 | Column Definitions..... | 2 |
| 3 | Repair Equipment, Mechanical | 3 |
| 3.1 | Sony Ericsson Provided Repair Equipment..... | 3 |
| 3.2 | Equipment Provided by Other Suppliers..... | 7 |
| 4 | Revision History | 13 |

1 General

This document describes the minimum required equipments for the Mechanical Repair Process of the J110 and J120 mobile phones.

Equipment listed without a part number is not orderable from Sony Ericsson and must be bought locally.

2 Column Definitions

The matrices in the end of the equipment tables describe where the actual equipment is needed (marked with an X) or may be needed/optional (marked with a Z).

Flash upgrade: Equipment for downloading software to the unit, both signalling and test-program.

Manual test: Equipment necessary to perform a manual test.

Repair: Equipment necessary for replacing components.


The columns that assist in specifying and/or clarifying the equipment needed are considered description type columns.




- Description The name of the equipment.
- Part Number The Sony Ericsson part number to use when ordering from Sony Ericsson.
- Comments Additional information that helps to specify or clarify the equipment.




3 Repair Equipment, Mechanical



Some of the required equipment will be provided by Sony Ericsson and some equipment has to be sourced locally. This chapter will separate these equipments.

3.1 Sony Ericsson Provided Repair Equipment

| Description | Part Number | Comments | Picture | Flash Upgrade | Manual Test | Trouble Shoot | Repair |
|--------------------------------------|-------------|--|--|---------------|-------------|---------------|--------|
| | | | | | | | |
| Adjustable Manual Torque Screwdriver | NTZ 112 459 | <p>Any torque driver may be used as long as the driver meets the following requirements:</p> <ul style="list-style-type: none"> The driver must be capable of applying the specified torque value +/- 6% The driver must be set so that the maximum torque speed of the driver does not exceed 670 rpm <p>NOTE - The torque value used on this product is 11 N·cm</p> |  | | | X | X |

| Description | Part Number | Comments | Picture | Flash Upgrade | Manual Test | Trouble Shoot | Repair |
|---|--------------|---|---|---------------|-------------|---------------|--------|
| | | | | | | | |
| Torx Bit T5 | NTZ 112 478 | |  | | | X | X |
| Sony Ericsson Programming Interface (SEPI) | LTN 214 1484 | The Sony Ericsson Programming Interface (SEPI) is used in conjunction with the SEPI interface cable, the USB computer cable and battery charger to perform flash upgrade on this product. |  | X | | | |
| Sony Ericsson Programming Interface (SEPI) cable – A1 | KRY 101 1119 | A battery charger needs to be connected to this cable during flash upgrade. |  | X | | | |

| Description | Part Number | Comments | Picture | Flash Upgrade | Manual Test | Trouble Shoot | Repair |
|-----------------------------|---------------|---|---|---------------|-------------|---------------|--------|
| | | | | | | | |
| USB Smartcard Reader and CD | LZY 213 1191 | <p>This USB Smartcard Reader provides the means for reading a Service Card.</p> <p>This item is required for using the LabelMake II application and flashing offline.</p> |  | X | | | |
| Service Card | LZY 213 595 | <p>This item is required for using the LabelMake II application and flashing offline.</p> |  | X | | | |
| Zebra Printer Ribbon | LZK 102 734/1 | <p>This is the ribbon that should be used in the Zebra printer when generating labels for this product.</p> |  | | | | X |

| Description | Part Number | Comments | Picture | Flash Upgrade | Manual Test | Trouble Shoot | Repair |
|--------------------|---------------|---|--|---------------|-------------|---------------|--------|
| | | | | | | | |
| Front Opening Tool | NTZ 112 302/2 | |  | | | | X |
| Dummy Battery | NTZ 112 542 | This item, also known as a “Battery Eliminator”, can be used in the place of the battery when it is used in conjunction with the power supply and the power cables. |  | Z | Z | | |

The matrix describes where the actual equipment is needed, marked with an X, or may be needed/option, marked with a Z.



3.2 Equipment Provided by Other Suppliers

This is the list of equipments provided by other suppliers than Sony Ericsson

| Description | Comments | Picture | Flash Upgrade | Manual Test | Trouble Shoot | Repair |
|---|---|---------|---------------|-------------|---------------|--------|
| | | | | | | |
| Battery | Model # - BST-37 <ul style="list-style-type: none"> Purchase from local vendor | | X | X | | |
| Battery Charger - that connects to system connector | Model #: CST-60 or equivalent <ul style="list-style-type: none"> Use a charger that works with your area's electrical system. Purchase from local vendor | | X | X | | |
| Brush | This device must be electrostatic-dissipative | | | | | X |

| Description | Comments | Picture | Flash Upgrade | Manual Test | Trouble Shoot | Repair |
|--|---|---------|---------------|-------------|---------------|--------|
| | | | | | | |
| Isopropyl Alcohol – 99% concentration by volume | <p>Only isopropyl alcohol that is 99% concentration by volume should be used.</p> <ul style="list-style-type: none"> Other names used for this material include rubbing alcohol, IPA, 2-Propanol, and Isopropanol. Products named using any of the names mentioned are acceptable as long as they meet the 99% concentration by volume requirement. There is no specific supplier that this material needs to be obtained from, but a list of web sites that sell products that meet the 99% by volume requirement are provided below for convenience. <p>* http://www.inj-industries.com</p> <p>* http://www.first-aid-product.com/industrial/isopropyl-alcohol.htm</p> <p>* http://www.sigmaaldrich.com/</p> | | | | | X |
| Gloves | This device must be electrostatic-dissipative | | | | X | X |
| Finger Cots | This device must be electrostatic-dissipative | | | | X | X |
| Lint-free wipes | | | | | | X |
| Barcode Scanner | The device must be able to decode code 128 and 128C | | | | | X |
| Hands-Free Cable - that connects to system connector | <p>Model #: HPM-70 or equivalent</p> <ul style="list-style-type: none"> Purchase from local vendor | | | X | | |

| Description | Comments | Picture | Flash Upgrade | Manual Test | Trouble Shoot | Repair |
|------------------------------------|--|---------|---------------|-------------|---------------|--------|
| Computer | Computer requirements at this service level: <ul style="list-style-type: none"> • An IBM compatible 500 MHz or higher processor • A minimum of 256 MB RAM or greater, depending on what is specified by the operating system's manufacturer • Two extra USB ports – one for the Smartcard reader and one for flashing equipment • A COM port for the Zebra Printer • A connection for barcode scanner • A connection for a Bluetooth device • A connection for an IR device • Must use one of the following operating systems – Windows 98SE, 2000, and XP | | X | | | X |
| Zebra Printer (Must be 300 dpi) | Current Model Options: 110XIIIPlus or Z4MPlus These models use a DB9 Male-DB9 Female Null Modem Cable to connect to the computer (POS 42). | | | | | Z |

| Description | Comments | Picture | Flash Upgrade | Manual Test | Trouble Shoot | Repair |
|------------------|--|---|---------------|-------------|---------------|--------|
| | Discontinued Model Options: NOTE - The following models may also be used, but Zebra has discontinued selling them. <ul style="list-style-type: none"> • 90xi Series • Z4M • Z4000 deluxe These models use a DB25 Male-DB9 Female Null Modem Cable to connect to the computer (POS 42). | | | | | |
| Null Modem Cable | This cable connects the Zebra printer to the computer. Two companies that carry this type of cable are CDW (www.cdw.com) and QVS (www.qvs.com). Part numbers for the DB9 Male-DB9 Female version: CDW - 361875 (6 Feet Long) |  | | | | Z |
| | Part numbers for the DB25 Male-DB9 Female version: CDW – 375939 (6 Feet Long) QVS – CC314-06 (6 Feet Long) QVS – CC314-10 (10 Feet Long) |  | | | | |
| Hot Air Device | This kind of device may be needed to assist in removing the label from this product. | | | | | Z |

| Description | Comments | Picture | Flash Upgrade | Manual Test | Trouble Shoot | Repair |
|---------------------------|---|---------|---------------|-------------|---------------|--------|
| | | | | | | |
| Ionized Air Gun or Blower | Optional, but recommended – Ionized air neutralizes the static that tends to cause particles to cling to a surface, therefore allowing dust and fine particles to be easily blown off unlike most standard air blowing devices. | | | | | Z |
| A Functional SIM (GSM) | A functional SIM (GSM) is needed for performing an “On the Air” GSM test. A functional SIM (GSM) can be used instead of the inactive SIM or Test SIM to evaluate phone functionalities such as the FM radio (J120 only) | | | X | | |
| Power Supply | NOTE: Only necessary if using a dummy battery Requirements: <ul style="list-style-type: none"> • The output voltage should, at minimum, be variable from 0 to 5 volts • The output current should, at minimum, be adjustable from 0 to 2 amps • Optional, but recommended - A digital display capable of showing the current value | | Z | Z | | |

| Description | Comments | Picture | Flash Upgrade | Manual Test | Trouble Shoot | Repair |
|--------------------------------------|---|---------|---------------|-------------|---------------|--------|
| Power cables – one red and one black | <p>NOTE: Only necessary if using a battery eliminator.</p> <p>Cable Requirements:</p> <ul style="list-style-type: none"> • Minimum cross sectional area of conductor = 1.2mm² • Maximum length = 1.5 m • One end of cable must have a male banana-type connector to be able to interface with the battery eliminator. • The other end of the cable needs whatever connection is necessary to connect to the power supply that you have. | | Z | Z | | |

The matrix describes where the actual equipment is needed, marked with an X, or may be needed/option, marked with a Z.

4 Revision History

| Rev. | Date | Changes / Comments |
|------|------------|---|
| A | 2007-06-13 | 1 st release |
| B | 2007-06-19 | Due to system problem. No changes made on content |
| | | |