



Equipment List, Mechanical

Applicable for W600i, W600c, W550i, and W550c

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1 General

This document describes the equipment required to repair the product(s) listed in the “Applicable for” section of this document at the Mechanical Repair Level and to upgrade the product(s)’s software. The first section is equipment that can be purchased from a Sony Ericsson Parts and Tools warehouse. The second section is equipment that must be purchased from other vendors.

2 Column Definitions

The columns that make up the equipment table can be grouped into two categories. The two categories are: description type columns and process type columns.

2.1 Description Type Columns

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

- Pos = (Position Number) = The equipment reference numbers used in the Installation Instruction documents.
- Description = The name of the equipment.
- Part Number = The Sony Ericsson part number to use when ordering from a Sony Ericsson Parts and Tools warehouse.
- Comments = Additional information that helps to specify or clarify the equipment.
- Picture = An image of the equipment



2.2 Process Type Columns





The columns that indicate the repair processes in which equipment should be used are considered process type columns. An “X” in the column indicates that the equipment must be used for a process, and a “Z” in the column indicates that the equipment is optional.




- Flash Upgrade = An upgrade of the signalling software in the phone.
- Manual Test = A manual test of the functions of the phone.
- Trouble Shooting = A method of determining the cause of the phone’s failure to perform a function.
- Repair = A method of replacing failed components.



3 Repair Equipment, Mechanical

3.1 Sony Ericsson-Provided Repair Equipment



Pos	Description	Part Number	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
1	Adjustable Manual Torque Screwdriver	NTZ 112 459	<p>In any instance where a specified torque value is required to repair products supported by this document, any torque driver may be used as long as the following specifications are met:</p> <ul style="list-style-type: none"> • Must have a driver capable of applying 15 N·cm +/- 6% torque • Must have a driver capable of applying 11 N·cm +/- 6% torque • Any driver used must be set so that the maximum torque speed of the driver does not exceed 670 rpm 				X	X
2	Torx Plus Size 5 Bit	NTZ 112 478					X	X

Pos	Description	Part Number	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
3	JCIS No. 0 Screw Bit	NTZ 112 1052					X	X
5	DCU-60/USB Cable	KRY 101 1413	This is the flashing cable. This cable interfaces the phone to the PC.		X	X		
7	USB Smartcard Reader and CD	LZY 213 1191	This USB Smartcard Reader provides the means of reading a Service Card (POS 8). This item is required for using the LabelMake II application and flashing offline.		X			X
8	Service Card	LZY 213 595	This item is required for using the LabelMake II application and flashing offline.		X			X


Pos	Description	Part Number	Comments	Picture				
					Flash Upgrade	Manual Test	Trouble Shoot	Repair
9	Sony Ericsson Programming Interface (SEPI)	LTN 214 1484	The Sony Ericsson Programming Interface is used in conjunction with the SEPI interface cable (POS 10) and the USB computer cable (POS 43) for E-ROM recovery.					X
10	SEPI Interface Cable	KRY 101 1119	This is part of the hardware needed for. E-ROM recovery This cable connects the phone to the Sony Ericsson Programming Interface (SEPI) - (POS 9).					X
13	Zebra Printer Ribbon	LZK 102 734/1	This is the ribbon that should be used in the Zebra printer when generating labels for this product.					X
14	Front Opening Tool	NTZ 112 302/2	This tool is one of the options that can be used during the repair process of this product(s) anywhere the term “pry tool” is specified in the repair instructions.					Z


Pos	Description	Part Number	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
15	Camera Extraction Tool	NTZ 112 558	This tool is needed to remove the camera module from its connector on the circuit board.					X
52	Battery Eliminator	NTZ 112 542	This item, also known as a “Dummy Battery”, can be used in the place of the battery when it is used in conjunction with the power supply (POS 49) and the power cables (POS 88).		Z	Z		




3.2 Equipment Provided by Other Supplier

Pos	Description	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
26	Battery	Model # - BST-37 • Purchase from local vendor		X	X		
27	Battery Charger – that connects to system connector	Model #: CST-60 or equivalent • Use a charger that works with your area’s electrical system. • Purchase from local vendor			X		X
28	Style 2A Tweezers	Style 2A tweezers may be referred to as “blunt-tip”. These tweezers must be conductive or electrostatic-dissipative. This tool can be ordered from Contact East (1-800-432-2223 or www.contacteast.com).					X
29	Style 3 Tweezers	Style 3 tweezers may be referred to as “pointed-tip”. These tweezers must be conductive or electrostatic-dissipative. This tool can be ordered from Contact East (1-800-432-2223 or www.contacteast.com).					X
30	Brush	This device must be electrostatic-dissipative					X

Pos	Description	Comments	Picture				
				Flash Upgrade	Manual Test	Trouble Shoot	Repair
31	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.jnj-industries.com</p> <p>* http://www.first-aid-product.com/industrial/isopropyl-alcohol.htm</p> <p>* http://www.sigmaaldrich.com/</p>					X
32	Gloves	This device must be electrostatic-dissipative				X	X
33	Finger Cots	This device must be electrostatic-dissipative				X	X

Pos	Description	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
34	Computer	Computer requirements for flashing: <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
35	Hands-Free Cable – that connects to system connector	Model #: HPM-70 or equivalent <ul style="list-style-type: none"> • Purchase from local vendor 			X		
37	Lint-free wipes						X
38	Orangewood Sticks	This tool is one of the options that can be used during the repair process of this product(s) anywhere the term “pry tool” is specified in the repair instructions.					Z
39	Barcode Scanner	The device must be able to decode code128 and 128C					X

Pos	Description	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
40	Nylon Pointer	This tool is one of the options that can be used during the repair process of this product(s) anywhere the term “pry tool” is specified in the repair instructions. This part can be ordered from Contact East (1-800-432-2223 or www.contacteast.com). The Contact East Part Number is 151-168 .					X
41	Zebra Printer (Must be 300 dpi)	Current Model Options: <ul style="list-style-type: none"> • 110XiIIIPlus • Z4Mplus These models use a DB9 Male-DB9 Female Null Modem Cable to connect to the computer (POS 42).					Z
		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).					

Pos	Description	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
42	Null Modem Cable	<p>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).</p> <p>Part numbers for the DB9 Male-DB9 Female version: CDW – 361875 (6 Feet Long)</p> <hr/> <p>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)</p>	 				Z
43	USB Computer Cable	<ul style="list-style-type: none"> Type A to Type B cable <p>This is part of the hardware needed for E-ROM recovery. This cable connects the Sony Ericsson Programming Interface (SEPI) – (POS 9) to the computer.</p>					X
44	Infrared Device	<p>An infrared device is needed to test the infrared feature of a phone. One company that carries infrared devices is IRGEAR (www.irgear.com).</p>			X		



Pos	Description	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
45	Bluetooth Device	A working Bluetooth device such as a known good mobile phone with Bluetooth enabled or a PC with a Bluetooth card installed is needed to test the functionality of the Bluetooth feature on this product.			X		
46	Phase 2 Test SIM	A Phase 2 Test SIM is needed to evaluate some functionalities of this product.			X		
47	Hot Air Device	This kind of device may be needed to assist in removing the label from this product.					Z
48	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
49	Power Supply	NOTE: Only necessary if using a battery eliminator 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		

Pos	Description	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
88	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		

4 Revision History

Rev	Date	Changes / Comments
A	2005 – Sept 13	Initial Release
B	2005 – Sept 30	Added Camera extraction tool