

Equipment List, SP/Mechanical

Applicable for T226, T230, T238

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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 SP/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

2.1 Description 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.

2.2 Process Columns

These columns show which processes use the equipment. An “X” in the column indicates that the equipment must be used for this 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 evaluation of the functionality of a phone.
- Trouble Shooting = A method of determining the cause of a phone’s failure.
- Repair = A method of fixing a phone.

3 Repair Equipment, SP/Mechanical

3.1 Sony Ericsson-Provided Repair Equipment

Pos	Description	Part Number	Comments	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"> The driver must be able to apply 17 Ncm +/- 6%. The driver must be set so that the maximum torque speed of the driver does not exceed 670 rpm. 			X	X
2	Extended length T6 Torx Bit	NTZ 112 288/1	The old T6 torx bit (NTZ 112 288) can be used if you already have it.			X	X
3	Programming Interface, 3V	NTZ 112 334	This device allows you to interface with a 3V phone through the system connector.	X			



Pos	Description	Part Number	Comments	Flash Upgrade	Manual Test	Trouble Shoot	Repair
4	Cable, RS-232	RPM 113 317/3	This cable connects the Programming Interface to the computer.	X			
5	Hardlock	KRY 105 165		X			
7	USB Smartcard reader and CD	LZY 213 1191		X			
8	Smartcard	LZY 213 595		X			
9	USB Flash Interface Kit	LTN 214 368	The USB Flash Interface is used in conjunction the USB phone cable (POS 10) and the USB computer cable (POS 43) to perform USB flashing	Z			
10	USB Phone Cable	KRY 101 1094	This is part of the hardware needed for USB Flashing. This cable connects the phone to the USB flash interface	Z			
11	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



3.2 Equipment Provided by Other Supplier

Pos	Description	Comments	Flash Upgrade	Manual Test	Trouble Shoot	Repair
26	Battery	Model # BST-30 • Purchase from local vendor	X	X		
27	Battery Charger	Model #: CTR-11 or equivalent • The stated model number is for a travel charger. The travel charger was specified because it comes with adapters that allow it to work in over 100 countries. A charger that works with your area's electrical system is also acceptable. • Purchase from local vendor	X	X		
28	Style 2A Tweezers	This device must be electrostatic-dissipative				X
29	Style 3 Tweezers	This device must be electrostatic-dissipative				X
30	Brush	This device must be electrostatic-dissipative				X
31	Isopropyl Alcohol					X
32	Gloves	This device must be electrostatic-dissipative				X
33	Finger Cots	This device must be electrostatic-dissipative				X



Pos	Description	Comments	Flash Upgrade	Manual Test	Trouble Shoot	Repair
34	Computer	<p>Computer requirements for flashing:</p> <ul style="list-style-type: none"> • IBM compatible Pentium or greater • a minimum of 32 MB RAM or the minimum RAM specified by the operating system's manufacturer • Must use one of the following operating systems – Windows 98, ME, or 2000 • One unused USB Port <p>NOTE: If USB flashing is desired the following minimum requirements are recommended:</p> <ol style="list-style-type: none"> 1) At least 64 MB of RAM 2) A 400 MHz or higher processor 3) Two unused USB Ports 	X			
35	Portable Hands-free cable	<p>Model #: HPB-10 or equivalent</p> <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
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). The Contact East Part Number is 151-168 .				X



			Flash Upgrade	Manual Test	Trouble Shoot	Repair
Pos	Description	Comments				
41	Zebra Printer	Model Options: <ul style="list-style-type: none"> 90xi series Z4M 4000 deluxe (Can be used, but is no longer available) A Null Modem Cable (POS 42) is required to connect the Zebra Printer to the computer				X
42	Null Modem Cable (9 pin – 25 pin)	This cable connects the Zebra Printer to the computer. Two companies that carry this cable are CDW (www.cdw.com) and QVS (www.qvs.com). The CDW Part Number for a 6ft version of this cable is 333656 . The QVS Part Number for the 6ft and 10ft versions of this cable are CC314-06 and CC314-10 , respectively.				X
43	USB Computer Cable	<ul style="list-style-type: none"> Type A to Type B cable This is part of the hardware needed for USB Flashing. This cable connects the USB flash interface to the computer.	Z			

4 Revision History

Rev.	Date	Changes / Comments
PA1	2003-03-21	First Draft
A	2003-08-05	Initial Release
B	2002-09-16	<ul style="list-style-type: none">Added the “Front Opening Tool” to the Sony Ericsson-Provided Repair Equipment section as a pry tool option.Updated the printer model options listed for the Zebra printer.