

Equipment List, Mechanical

Applicable for C905

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1 General

This document describes the minimum required equipments for the Mechanical Repair Process of the C905, C905a and C905c 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.

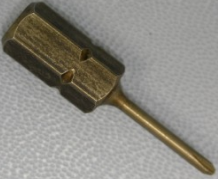


3 Repair Equipment, Mechanical




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.

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



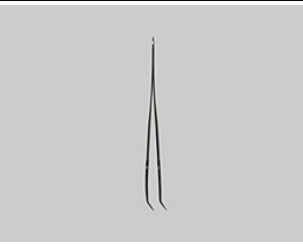
3.1 Sony Ericsson Provided Repair Equipment




Description	Part Number	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
Torque Screwdriver	NTZ112459	<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 values used on this product are 11 N-cm</p>				X	X

Description	Part Number	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
Bits(JCIS No. 0)	NTZ1121052					X	X
Torx Bit T6	NTZ112288/1	The old T6 Torx bit (NTZ 112 288) can be used if you already have it.				X	X
Torx Bit T5	NTZ112478					X	X

Description	Part Number	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
DCU-65USB Cable	RPM13112	This is the flashing cable. This cable interfaces the phone to the PC.		X	X		
ITC-60/Multimedia cable	1201-8696	TV-out cable			X		
USB Service card Reader	LZY2131191	<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.</p>					X


Description	Part Number	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
Zebra Printer Ribbon	LZK102734/1	This is the ribbon that should be used in the Zebra printer when generating labels for this product.					X
Front Opening Tool	NTZ112302/2	This tool is one of the options that can be used during the repair process of this product anywhere the term “pry tool” is specified in the repair instructions.					Z
Memcard 512 Mbyte	KDR109171/512	This item is needed to test the applicable product's memory slot.			X		


Description	Part Number	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
Dummy Battery BST-38	1208-5627	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 and the power cables.		Z	Z		
Plectrum (guitar pick)	NTZ112590	This tool is one of the options that can be used during the repair process of this product anywhere the term “pry tool” is specified in the repair instructions.					X
Flex Film Assembly Tool	NTZ112521	This tool is used to remove Flex film during the repair process					X

Description	Part Number	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
Keyboard Pressure Tool	1218-3378						X
Pressure Tool	1212-1900	See Pressure Tool instructions on CSPN (SPACE id 1219-2553) / Repair Instructions/Mechanical/Tool Catalogue/open Zip file /1219-2553.pdf					X
Navifoil Pressure Clip	1228-1126	See Working Instruction, Mechanical 1218-1731					X


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-38 <ul style="list-style-type: none"> Purchase from local vendor 		X	X		
Battery Charger – that connects to system connector	Model #: CST-75 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
Style 2A Tweezers	This device must be conductive or electrostatic-dissipative. This part can be ordered from Stanley Supply & Services (www.stanleysupplyservices.com).					X


Description	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
Style 3C Tweezers	This device must be conductive or electrostatic-dissipative. This part can be ordered from Stanley Supply & Services (www.stanleysupplyservices.com).					X
Brush	This device must be electrostatic-dissipative					X
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

Description	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
Gloves	This device must be electrostatic-dissipative				X	X
Finger Cots	This device must be electrostatic-dissipative				X	X
ESD work surface	The work surfaces a phone is exposed to when disassembled must be electrostatic-dissipative. The use of an ESD mat is acceptable.				X	X
ESD grounding device	A device that grounds a person to the ESD work surface is required. The use of an ESD wristband is acceptable.				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	Model #: HPM-70 or equivalent • Purchase from local vendor			X		

Description	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
Computer	<p>Computer requirements at this service level:</p> <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 • Must use one of the following operating systems – Windows 2000, and XP, and Vista 		X			X
Nylon Pointer	<p>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 Stanley Supply & Services (www.stanleysupplyservices.com). The Stanley Supply & Services Part Number is 151-168.</p>					X

			Flash Upgrade	Manual Test	Trouble Shoot	Repair
Description	Comments	Picture				
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).					X
	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)					X

Description	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
	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)					
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		
Hot Air Device	This kind of device may be needed to assist in removing the label from this product.					Z
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
Test SIM or Inactive SIM	Either a Test SIM, an inactive SIM, or a functioning SIM is needed to evaluate phone functionalities such as Bluetooth, FM radio, etc.			Z		

Description	Comments	Picture	Flash Upgrade	Manual Test	Trouble Shoot	Repair
A Functional SIM (GSM)	<p>A functional SIM (GSM) is needed for performing an “On the Air” GSM test.</p> <p>A functional SIM (GSM) can be used instead of the inactive SIM or Test SIM to evaluate phone functionalities such Bluetooth test, FM radio, etc.</p>			X		
A Functional USIM (UMTS)	A functional USIM (UMTS) is needed for performing an “ On the Air ” UMTS test .			X		
Dental hook						X
Power Supply	<p>NOTE: Only necessary if using a battery eliminator</p> <p>Requirements:</p> <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	NOTE: Only necessary if using a battery eliminator. Cable Requirements: <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		
TV-set	Any kind of TV set with Audio- Video RCA connectors. Needed for testing the TV-out function.			X		

4 Revision History

Rev.	Date	Changes / Comments
1	2008-10-24	First release
2	2008-11-17	Revised text
3	2009-07-14	Added Navifoil Pressure Clip 1228-1126