

Equipment List, Electrical

Applicable for J100a, J100c and J100i

Contents

1	General	2
2	Column Definitions.....	2
3	Repair Equipment.....	3
3.1	Sony Ericsson Provided Repair Equipment.....	3
3.2	Picture of equipments orderable from Sony Ericsson.....	4
3.3	Equipment Provided by Other Supplier	4
4	Revision History	8

1 General

This document describes the minimum required equipments for the Electrical Repair Process of the J100 mobile phone. Equipment listed without a part number is not orderable from Sony Ericsson and must be bought locally.

2 Column Definitions

The matrix 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.

NOTE! Only possible to do a Flash Upgrade on not SIM locked phones

Manual test: Equipment necessary to perform a manual test.

Repair: Equipment necessary for replacing components.

Go/No Go test: Equipment necessary for Go/No Go test.

Calibration with SERP: N/A for this model.

The column that assist a 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.
- Description Additional information that helps to specify the equipment.

3 Repair Equipment

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	Flash Upgrade	Go/No Go Test	Manual Test	Repair
Sony Ericsson Programming Interface - SEPI	LTN 214 1484	USB/Interface Box+CD	X			
SonyEricsson programming interface cable - SEPI	KRY 101 1119/1	SEPI A1 Cable NOTE! Valid for old SEPI A1 Cable also: KRY 101 1119 (together with charger)	X			
Torque Screwdriver *	NTZ 112 459	Torque set to 11 Ncm +/- 0.6Ncm				X
Torx Bits No. 6	NTZ 112 288	Spare part to screwdriver				X
Front Opening Tool	NTZ 112 521					X
Battery Eliminator	NTZ 112 542	Dummy Battery				X
Lead-free labels (sheet of 24)	SVF 930 1379	These lead-free labels must be applied to all materials and tools that contact the solder.				X
Rework fixture	LTD 260 273	Used to hold the PCB during repair.				Z
RF Probe Assembly	RPM 119 854/1			Z		
RF Test Cable Flexible 1M	RPM 119 855	This is the only approved RF cable!		Z		

*Any screwdriver that fulfills torque and bit demand can be used.

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

3.2 Picture of equipments orderable from Sony Ericsson

Pictures of tools that is orderable from Sony Ericsson.

			
LTN 214 1484	KRY 101 1119/1	NTZ 112 459	NTZ 112 288
			
NTZ 112 302/2	NTZ 112 542	RPM 119 854/1	RPM 119 855
			
LTD 260 273	SVF 930 1379		

3.3 Equipment Provided by Other Supplier

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

		Flash Upgrade	Go/No Go Test	Manual Test	Repair
Description	Comments				
Battery	BKB 193 203/1	X	X		
Battery Charger	Standard SonyEricsson charger. Note! New System connector on the phone		X		
Computer	Minimum Pentium III 500 Mhz 128 Mb RAM or better. At least 2 USB ports	X			
Blunt pair of tweezers	ESD-safe				X
Dentist hook	To be used when removing the adhesives.				X
Guitar pick	To be used when removing the front and back cover.				X
Isopropyl Alcohol	To be used when removing glue.				X
Cotton Gloves	ESD-safe				X
Zebra printer	90xi,90xi II or 4000 deluxe				Z
Printer Cable	Standard RS 232 serial printer cable (referred to Zebra printer manual)				Z
Hot Air Flow Repair Station, Medium	To be used when removing phone label (if needed) Temperature range 360-380° C. Air-flow up to 9 l/min				X
Soldering Iron	Temperature range 340-370° C.				X
Soldering Iron Tip Lead free	Temperature range 340-370° C.				X
Flux	RMA, No-clean flux				X
Solder-wire	Lead free : SN 96%, Ag 3,5% and Cu 0,5%				X

		Flash Upgrade	Go/No Go Test	Manual Test	Repair
Description	Comments				
Solder-paste	Lead free : SN 96%, Ag 3,5% and Cu 0,5%				X
Microscope	Minimum 10x magnification				X
RF Shield Package Rohde&Schwarz RF Shield Package <ul style="list-style-type: none"> CMU-Z10 – Antenna Coupler (Partnr: 1150.0801.10) CMU-Z11 – RF Shield Cover (Partnr. 1150.1008.02) 	<p>Using an RF shield package is one of the options for testing the applicable product(s). Testing of the applicable product(s) can also be preformed by using the combination of an RF Probe and an RF cable.</p> <p><i>Spare parts for mobile phone fixation for R&S CMU-Z10 are available for purchase from Rohde&Schwarz:</i></p> <ul style="list-style-type: none"> Grid Positioning Plate – 1158.9789.00 L-shaped bracket – 1158.9808.00 Stabilizing pieces – 1158.9820.00 <p>NOTE: The Rohde & Schwarz package will require the use of a precision N-type male to SMA female RF adapter to mate with the SEMC RF cable.</p> <p>NOTE: If you are using a different RF Shield Package than Rohde & Schwartz, special attenuation factors for Go/No-Go test are required.</p>		X		
Test SIM-card	According to your Instrument supplier.		X		
Hands free equipment	To be used to verify connection in the system connector. Note! New System connector on the phone			X	
GPIB Card – National GPIB Card – Keithley	Either National or Keithley can be used. Used for SERP Go/No-Go tests.		Z		
GPIB Cable	Used for SERP Go/No-Go tests.		Z		

		Flash Upgrade	Go/No Go Test	Manual Test	Repair
Description	Comments				
Power supply NOTE! If using the Power Supply in conjunction with the (Dummy Battery) to power the phone during the GNG test, a high quality DC source that meets the following requirements <u>must</u> be used.	NOTE: Only necessary if using the Battery Eliminator. Output Voltage: 0-5 volt minimum. Output Current: 0-2 amps minimum Transient response time: < 100 µs	Z	Z		
Power cables Red & Black	Minimum cross sectional area of conductor: 1.2 mm ² Maximum length: 1.5 m	Z	Z		
Test Instrument	If it is preferred to use a test instrument for GNG that is not specified, the test script must be written according to 2/1524-2/FEA 209 544/114 and approval of the test script <u>must</u> be obtained from Sony Ericsson.				

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	2006-04-10	First release