

Equipment List, Electrical

Applicable for V800/ V802se

Abstract

This document describes the minimum required equipments for the Electrical Repair Process of the V800 and V802se mobile phones. Equipment listed without a part number is not orderable from Sony Ericsson and must be sourced locally.

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.

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

SERP: Calibration can only be done by authorized repair centres.

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1 Repair Equipment, Electrical

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.

1.1 Sony Ericsson Provided Repair Equipment

This is the list over equipment provided by Sony Ericsson followed by some pictures of the equipment.

1.1.1 Specified equipment list

The specified equipment list is as follow:

			Flash Upgrade	Go/No Go Test	Manual Test	Calibration in SERP	Repair
Description	Part Number	Comments					
USB Service Card Reader	LZY 213 1191	Software Package/CD+USB Reader	X				
Service Card	LZY 213 595		X				
Hard lock	KRY 105 165		X				
SonyEricsson programming interface - SEPI	LTN 214 1484	USB/Interface Box+CD	X			X	
SonyEricsson programming interface cable - SEPI	KRY 101 1115	USB Cable 3V/Accessories	X			X	
Torque Screwdriver *	NTZ 112 459	Torque set to 9, 14, 17 and 20 Ncm +/- 6 %					X
Front opening tool	NTZ 112 1063	Opening tool					X
Flex film assembly tool	NTZ 112 521	Tweezers					X

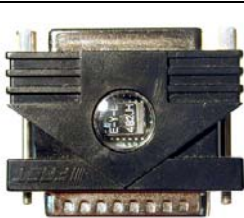
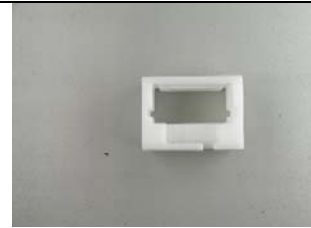
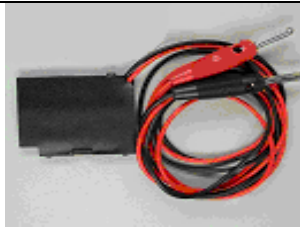
Description	Part Number	Comments	Flash Upgrade	Go/No Go Test	Manual Test	Calibration in SERP	Repair
Torx Bits No.6	NTZ 112 288	Bits to the Srewdriver					X
Shield Fence Plier	NTZ 112 537	For use when repair under shield fence is necessary					X
Lead-free labels (sheet of 24)	SVF 930 1379	These lead-free labels must be applied to all materials and tools that contact the solder.					X
Dummy Battery (BST-33)	NTZ 112 533		Z			X	
Rework fixture	LTD 260 273	For PBA (Printed Board Assembly)					X
Holder RF Connector	NTZ 112 1062	Used together with antenna connector and RF cable.		Z		X	
Antenna Connector	RNT 403 303/001			Z		X	
RF Test Cable Flexible 1M	RPM 119 855	This is the only approved RF cable!		Z		X	
Micro USB cable	RPM 131 102				X		

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

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

1.1.2 Pictures of equipment

The pictures of the specified equipments with part numbers are as follow:

			
LTN 214 1484	LZY 213 1191	LZY 213 595	KRY 105 165
			
NTZ 112 1063	RNT 403 303/001	NTZ 112 459	SVF 930 1379
			
NTZ 112 1062	NTZ 112 521	NTZ 112 1050	LTD 260 273

			
KRY 101 1115	NTZ 112 537	RPM 119 855	

1.2 Equipment Provided by Other Supplier

This is the list over equipment that has to be provided others supplier than Sony Ericsson followed by some pictures of the equipments.

1.2.1 Specified equipment list

The specified equipment list is as follow:

Description	Comments	Flash Upgrade	Go/No Go Test	Manual Test	Calibration in SERP	Repair
Torx Screwdriver No. 5	For the Camera					X
	BKB 193 200/1	X	X	X		
- Battery Charger	Standard SonyEricsson charger			X		
	Minimum Pentium III 500 Mhz 128 Mb RAM or better. At least 2 USB ports	X	Z		X	
USB-PC Cable	Type A-B Plug-Plug Cable	X			X	
Tweezers	ESD-safe					X
	To be used when removing adhesives.					X
	Spare part to screwdriver					X
	To be used when removing glue.					X
	ESD-safe					X
	90xi, 90xi II or 4000 deluxe					Z
	Standard RS 232 serial printer cable [referred to Zebra printer manual]					Z
	Temperature range 360-380° C. Air-flow up to 9 l/min					X

		Flash Upgrade	Go/No Go Test	Manual Test	Calibration in SERP	Repair
Description	Comments					
	Temperature range 340-370° C.					X
	Temperature range 340-370° C.					X
	RMA, No-clean flux					X
	Lead free : SN 96%, Ag 3,5% and Cu 0,5%					X
	Lead free : SN 96%, Ag 3,5% and Cu 0,5%					X
	Minimum 10x magnification					X
(GSM) and Yokogawa VC 100 (W-CDMA) According to 2/1524-2/FEA 209 544/88	Go/No Go test instrument		X			
- RF Shield Package Rohde&Schwarz	CMU Z10-Z11		X			
Test SIM-card	According to your Instrument supplier.		X			
Operator SIM-card	To be used when making a landline call. IMPORTANT! Must support WCDMA.			X		
	To be used to make connection between the phone and the device			X		
	To be used to make connection between the phone and the device			X		
	To be used to verify connection in the system connector. Applicable for V800 phone			X		
8960 for calibration with SERP according to Instrument List 1/131 30-2/FEA 209 544	Only instruments documented in the Instrument list are supported.				X	
GPIB Card - Keithley	Either National or Keithley can be used.				X	
					X	

		Flash Upgrade	Go/No Go Test	Manual Test	Calibration in SERP	Repair
Description	Comments					
		Z	Z		X	
Power cables Red & Black	Minimum cross sectional area of conductor: 1.2 mm ² Maximum length: 1.5 m	Z	Z		X	

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

1.2.2 Pictures of equipment

The pictures of the specified equipments are as follow:



Type A-B Plug-Plug Cable

2 Revision History

The list over the revision history is as follows:

Rev.	Date	Changes / Comments
A	2004-11-16	First Release
B	2004-12-02	Updated the part number for Dummy Battery
C	2004-12-16	Due to table adjustment
D	2004-12-17	Due to table adjustment
E	2005-01-03	Due to table adjustment