

# Equipment List, Mechanical

Applicable for T650 and T658

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## 1 General

This document describes the minimum required equipments for the Mechanical Repair Process of the T650/T658 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.

#### 3.1 Sony Ericsson Provided Repair Equipment

Description	Part Number	Comments	Upgrade	Flash	Manual Test	Repair
USB Service Card Reader	LZY 213 1191	Software Package/CD+USB Reader	X			
Service Card	LZY 213 595		X			
DCU-60/USB Cable	KRY 101 1413	Interface cable between PC and phone	X			
Torque Screwdriver *	NTZ 112 459	Torque set to 11, 17 Ncm +/- 0,2 Ncm				X
Bits	NTZ 112 1052	Spare part to screwdriver				X
Bits	NTZ 112 288	Spare part to screwdriver				X
Front opening tool	NTZ 112 302/2					X
Flex film assembly tool	NTZ 112 521	Tweezers for flexfilms				X
Battery Eliminator	1200-0725	Dummy battery	Z			
VGA Camera Tool	NTZ 112 1077	VGA Camera removal tool – <b>T650 Only</b>				X
3Mpixel camera removal tool	1201-9362	3Mpixel camera removal tool				X
USB Activation Dongle	NTZ 112 1071		X			

\*Any screwdriver that fulfils 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.

			
LZY 213 1191	LZY 213 595	KRY 101 1413	NTZ 112 459
			
NTZ 112 288	NTZ 112 1052	NTZ 112 302/2	NTZ 112 521
			
1200-0725	NTZ 112 1077	1201-9362	NTZ 112 1071

### 3.3 Equipment Provided by Other Suppliers

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

Description	Comments	Flash Upgrade	Manual Test	Repair
Battery	Model # - BST-38 • Purchase from local vendor	X	X	
-Battery Charger	Standard SonyEricsson charger applicable for T650/T658		X	
Computer	Minimum Pentium III 1,0 GHz 512 Mb RAM or better. At least 3USB ports	X		
Tweezers	ESD-safe			X
Dentist hook	To be used when removing the adhesives.			X
Plectrum	To be used when removing the front and antenna 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)			Z
IR-device	To be used to make connection between the phone and the device		X	
Bluetooth-device	To be used to make connection between the phone and the device		X	
Hands free equipment.	To be used to verify the system connector. Applicable for K810i		X	
Operator SIM-card	To be used when making a landline call.		X	
Barcode Scanner	The device must be able to decode code128 and 128C			Z

<b>Description</b>	<b>Comments</b>	<b>Flash Upgrade</b>	<b>Manual Test</b>	<b>Repair</b>
Ionized Air Gun or blower	neutralizes the static, therefore allowing dust and fine particles to be easily blown off.			Z
Power supply	NOTE: Only necessary if using the Battery Eliminator.	Z		
Power cables Red & Black	Minimum cross sectional area of conductor: 1.2 mm <sup>2</sup> Maximum length: 1.5 m	Z		

\*Any screwdriver that fulfils 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

## 4 Revision History

Rev.	Date	Changes / Comments
A	2007-08-16	Initial release
B	2007-08-23	Added new picture