

# Equipment List, Mechanical

Applicable for MD300

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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 Mechanical Repair Level and to upgrade the products(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

- 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 a column indicates that the equipment must be used, and a “Z” in a column indicates that the use of that equipment is optional.




- Test = A manual and/or automated method of evaluating the functionality of a device.
- Repair = A method of fixing a device.



## 2.3 Sony Ericsson-Provided Repair Equipment


				Test	Repair
Description	Part Number	Comments	Picture		
Adjustable Manual Torque Screwdriver	NTZ 112 459	Any torque driver may be used as long as the driver meets the following requirements: <ul style="list-style-type: none"> <li>The driver must be capable of applying the specified torque value +/- 6%</li> <li>The driver must be set so that the maximum torque speed of the driver does not exceed 670 rpm</li> </ul>			X
Torx Plus 5IP Bit	NTZ 112 478				X
USB Smartcard Reader and CD	LZY 213 1191	This USB Smartcard Reader provides the means of reading a Service Card. This item is required for using the LabelMake II application.			X



				Test	Repair
Description	Part Number	Comments	Picture		
Service Card	LZY 213 595	This item is required for using the LabelMake II application.			X
Zebra Printer Ribbon	LZK 102 734/1	This is the ribbon that should be used in the Zebra printer when generating labels for this product.			X
Plectrum (guitar pick)	NTZ 112 590				X

### 3 Equipment Provided by Other Supplier



Description	Comments	Picture	Test	Repair
MD300	Optional, to be used to verify test setup.		Z	
Computer for testing	<b>Computer requirements for Testing:</b> <ul style="list-style-type: none"> <li>• Windows compatible computer</li> <li>• 1 GHz or higher processor</li> <li>• Windows 2000(SP4), XP or Vista</li> <li>• Extra USB port</li> <li>• 1 Gb RAM</li> </ul>		X	
Computer for LabelMake II	<p><b>NOTE: YOU MAY USE THE SAME COMPUTER FOR THE LABELMAKE II APPLICATION AS IS USED FOR TESTING AS LONG AS IT MEETS BOTH THE TESTING AND LABELMAKE REQUIREMENTS.</b></p> <p>Computer requirements for LabelMake:</p> <ul style="list-style-type: none"> <li>• An IBM compatible 400 MHz or higher processor</li> <li>• A minimum of 64 MB RAM or the minimum RAM specified by the operating system's manufacturer</li> <li>• One extra USB port – one for the Smartcard reader</li> <li>• A com port for the Zebra Printer</li> <li>• A connection for barcode scanner</li> <li>• Must use one of the following operating systems – Windows 98SE, 2000, and XP</li> </ul>			X

Description	Comments	Picture	Test	Repair
Active SIM Card	The network subscription you use in conjunction with your PC Card depends on the functions and features the local network can provide. Contact your local network operator or service provider to make sure that data options are included in your subscription.		X	
Style 2A Tweezers	This device must be conductive or electrostatic-dissipative. This part can be ordered from Contact East (1-800-432-2223 or <a href="http://www.contacteast.com">www.contacteast.com</a> ).			X
Brush	This device must be electrostatic-dissipative.			X



Description	Comments	Picture	Test	Repair
Isopropyl Alcohol	<p>Only isopropyl alcohol that is 99% concentration by volume should be used.</p> <ul style="list-style-type: none"> <li>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.</li> <li>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. <ul style="list-style-type: none"> <li>* <a href="http://www.jnj-industries.com">http://www.jnj-industries.com</a></li> <li>* <a href="http://www.first-aid-product.com/industrial/isopropyl-alcohol.htm">http://www.first-aid-product.com/industrial/isopropyl-alcohol.htm</a></li> <li>* <a href="http://www.sigmaaldrich.com/">http://www.sigmaaldrich.com/</a></li> </ul> </li> </ul>			X
Gloves	This device must be electrostatic-dissipative.			X
Finger Cots	This device must be electrostatic-dissipative.			X
ESD work surface	<p>The work surfaces a phone is exposed to when disassembled must be electrostatic-dissipative.</p> <p>The use of an ESD mat is acceptable.</p>			X
ESD grounding device	<p>A device that grounds a person to the ESD work surface is required.</p> <p>The use of an ESD wristband is acceptable.</p>			X
Lint-free wipes				X

Description	Comments	Picture	Test	Repair
Barcode Scanner	The device must be able to decode code 128 and 128C			X
Hot Air Device	This kind of device may be needed to assist in removing the label from this product.			Z
Zebra Printer (Must be 300 dpi)	<b>Current Model Options:</b> 110XIIIPlus Z4MPlus These models use a DB9 Male-DB9 Female Null Modem Cable to connect to the computer (POS 42).  <b>Discontinued Model Options:</b> <b><i>NOTE: THE FOLLOWING MODELS MAY ALSO BE USED, BUT ZEBRA HAS DISCONTINUED SELLING THEM.</i></b> <ul style="list-style-type: none"> <li>• 90xi Series</li> <li>• Z4M</li> <li>• Z4000 deluxe</li> </ul> These models use a DB25 Male-DB9 Female Null Modem Cable to connect to the computer (POS 42).			X

			Test	Repair
Description	Comments	Picture		
Null Modem Cable	<p>This cable connects the Zebra printer to the computer. Two companies that carry this type of cable are CDW (<a href="http://www.cdw.com">www.cdw.com</a>) and QVS (<a href="http://www.qvs.com">www.qvs.com</a>).</p> <p>Part numbers for the <b>DB9 Male-DB9 Female version:</b>  <b>CDW – 361875</b> (6 Feet Long)</p>			X
	<p>Part numbers for the <b>DB25 Male-DB9 Female version:</b>  <b>CDW – 375939</b> (6 Feet Long)  <b>QVS – CC314-06</b> (6 Feet Long)  <b>QVS – CC314-10</b> (10 Feet Long)</p>			

## 4 Revision History

Rev.	Date	Changes / Comments
1	March 11, 2008	Initial Release