

**Nokia Customer Care  
3125 (RH-61) Series Transceivers**


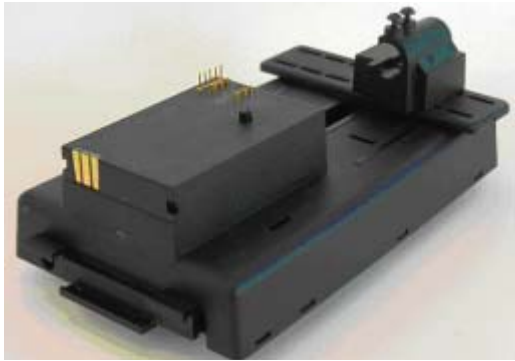
**Service Tools**



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## Model 3125 Service Tools

JBV-1 Docking Station	MJF-17 Docking Station Adapter
0770298	0774282
	
<p>The JBV-1 docking station connects flash prommers and works in conjunction with the MJF-17 for flashing, testing, and an EM calibration. The docking station can be powered by the FPS-8 or an external power supply.</p> <p><i>Note: You must update your JBV-1s to the latest firmware to properly operate Lynx handsets.</i></p> <p><i>Note: Use the PCS-1 DC power and XRS-4 cables when using the FPS-8 prommer box.</i></p>	<p>The MJF-17 works in conjunction with the JBV-1 docking station and the FPS-8 prommer to enable tuning, testing, and flashing. The docking station adapter supports the LYNX batter interface, which does not require BTEMP, and also has a built-in R-UIM card reader.</p>

FPS-8 Flash Prommer	RJ-32 Rework Jig
0080321	0770757
	
<p>The FPS-8 flash prommer is used for high-volume flashing at authorized service centers.</p> <p><i>Note: You must register the FPS-8 in order to activate it. (See the sales package for registration information.)</i></p>	<p>The rework jig is a PWB component that allows de-soldering and soldering.</p>

XCS-4 Mbus/Fbus Cable	CA-5S DC Service Cable
0730178	0730283
	
<p>The XCS-4 Service Cable is a general purpose cable for flashing and communicating with the phone. This is used to connect the FPS-8 box to the docking station adapter or the service jig.</p>	<p><b>CA-5S</b> is used for EM calibration with the JBV-1. This cable replaces the SCB-3 DC Cable (0730114).</p> <p><i>Note: Required by the MJF-28 Docking Station Adapter.</i></p>

PCS-1 Power Cable	PKD-1 SW Security Device
0730012	0750018
	
<p>The Power Cable PCS-1 is used to connect the service tools (JBV-1, MJS-82) to an external power supply.</p>	<p>SW security device (PKD-1) is a hardware device that, when connected to the parallel (LPT) port of the PC, enables the use of service software. It is not possible to use the service software without the dongle. Printers or other peripheral devices can be connected to the PC through the dongle, if needed.</p> <p><i>Caution: Make sure that you have switched off the PC and the printer before making connections. Also, do not connect the PKD-1 to the serial port. You may damage your PKD-1.</i></p> <p><i>Note: PKD-1RD dongles are restricted to Nokai Product Creation Centers only.</i></p>

FLS-4S POS Flash Adapter	DAU-9T MBUS Data Cable
0080543	0730267
	
<p>The Point of Sale (POS) flash is a low-cost software upgrade tool. (This requires the XCS-1 cable [0730218], NOT included.)</p>	<p>FBUS cable DAU-9T provides a connection from the serial port of the computer to the system connector of the phone. This cable is used for diagnostic purposes.</p> <p><i>Note: This cable does not support M-BUS.</i></p>
DAU-9S (MBUS) Cable	CA-25RS RF Test Cable
0730108	0730316
	
<p>This is a general-purpose cable to support F / MBUS communication between a Mod-10 device and a PC. This cable is used for diagnostic purposes.</p>	<p>The CA-25RS test cable is used for CDMA RF engine testing and tuning. This cable snaps directly on the phone's RF connector and converts the output to an SMA connector. Removal of the A-cover is required.</p>

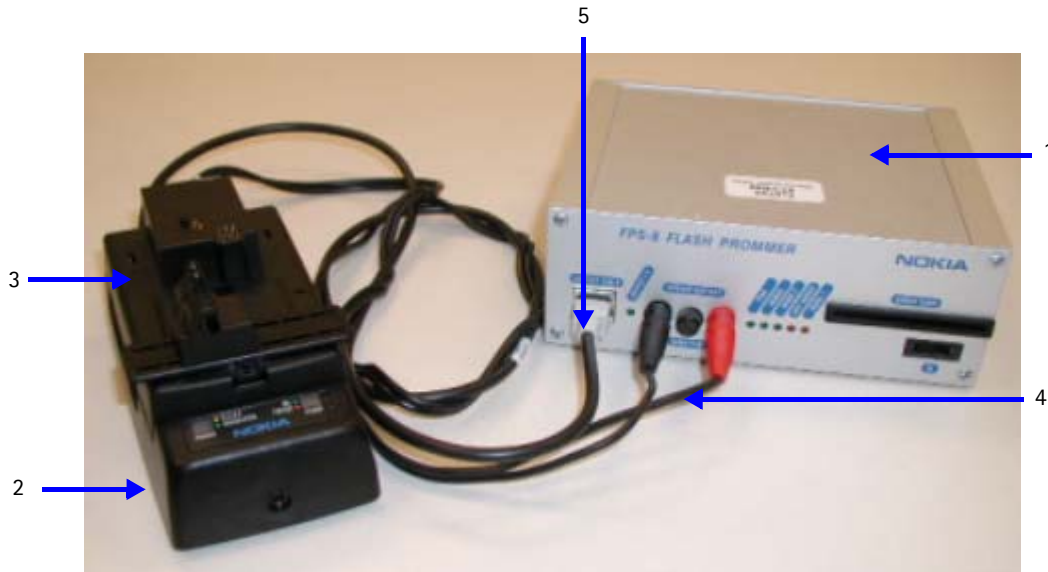
CA-22DS Service Cable	MJ-23 Module Test Jig
0730311	0770650
	
<p>This cable is used for bottom connector flashing using FLS-4S or FLC-20.</p>	<p>The MJ-23 secures and allows easy access to critical areas of the handset's PWB during troubleshooting. It supports regulated and unregulated DC input voltages, Local and Normal mode operations, a R-UIM card reader, and a second DC input for VCHAR used in EM tuning. The Jig also supports simultaneous RF connections to the CDMA engine. A completely functional UI module is also provided on the right side.</p> <p><i>Note: The MJ-23 is for use with the CA25RS RF cable.</i></p>
SS-13 Tuning Docking Station (CDMA)	XRS-6 RF Cable
0080852	0730231
	
<p>SS-13 is used with the MJF-x/DA-x flashing adapters (shown with MJF-17).</p>	<p>The XRS-6 cable is used to connect service tools to RF measuring equipment.</p>

**Flashing, Testing, and Tuning**

Tightened performance specifications require more precise equipment and methods for testing and alignment. Manual tuning can not provide accurate results for the 3125, which means that this test has to be automated.

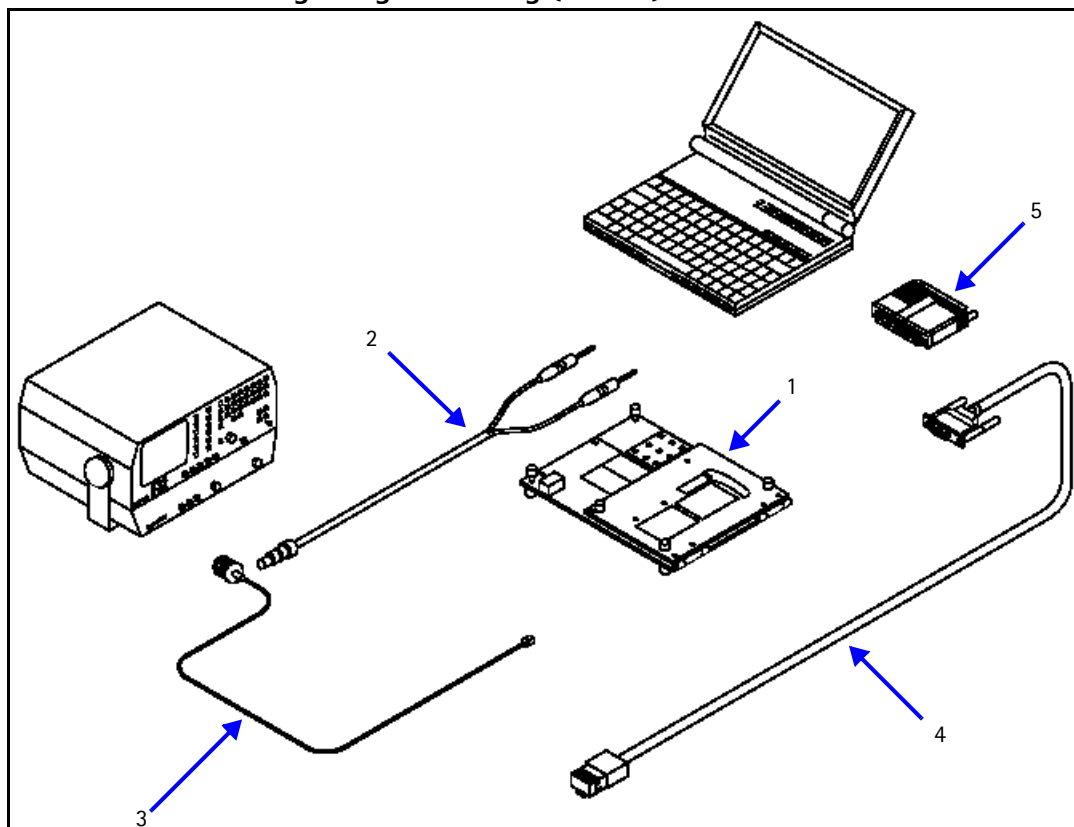
These setups are intended to be with the Phoenix Service Software. Both manual testing and automated tuning are permitted with Phoenix Service Software.

**High-volume Flashing and EM Calibration**



Item	Name	Type	Code
1	Flash prommer box (sales pack) Included in FPS-8 sales pack: Service cable Serial cable Power supply	FPS-8 CA-10DS AXS-4 ACF-8	0080321 0730298 0730090 0680032
2	Docking station	JBV-1	0770298
3	Docking adapter	MJF-17	0774282
4	DC power cable	PCS-1	0730012
5	Modular cable	XCS-4	0730178
	Software protection key (not shown)	PKD-1	0750018
	Service software	CDMA Phoenix	8407840

Covers-Off Troubleshooting Using Service Jig (MJ-23)

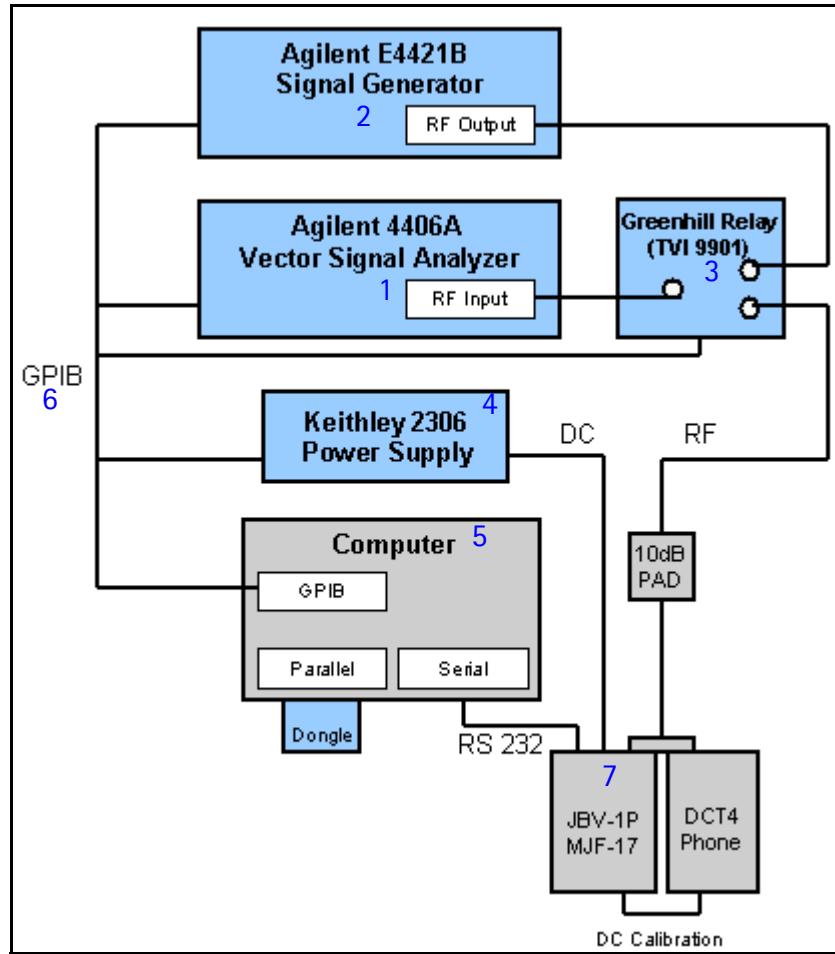


Item	Name	Type	Code
1	Module repair jig includes RF test cable	MJ-23 CA-25RS	0770650 0730316
2	DC power cable	PCS-1	0730012
3	RF test cable	XRS-6	0730231
4	Service MBUS/FBUS cable	DAU-9S	0730108
5	Software protection key	PKD-1	0750018
	Service software (not shown)	Phoenix	8407840



**Automated Tuning and Alignment**

This setup is used for tuning of the handset at Nokia Authorized Service Centers.



Following is the automated tuning and alignment equipment list.

Item	Name	MFR	Model #	QTY	Comment
1	Vector Signal Analyzer	Agilent	E4406A	1	
2	Signal Generator	Agilent	E4421B	1	Digital signal generator with high-stability oscillator and high-spectral purity
3	RF Series	GreenHill	TVi9901	1	
4	Power Supply	Keithly	K2306	2	Programmable with sense wire
5	Win2000 PC				Dell with Pentium III or above, network card, 256M RAM, 20GB HD, CD-ROM, etc.

Item	Name	MFR	Model #	QTY	Comment
6	NI-GPIB Interface	NI	GPIB-USB-A	2	USB to GPIB adapter (184983G-01)
7	Docking Station	Nokia	JBV-1P	1	For RF tuning, a modified JBV-1P is used. The JBV-1P only supplies power with sense lines to compensate voltage loss.

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