




**Nokia Customer Care
6255/6255i/6256/6256i (RM-19)
Mobile Terminal**

Service Tools


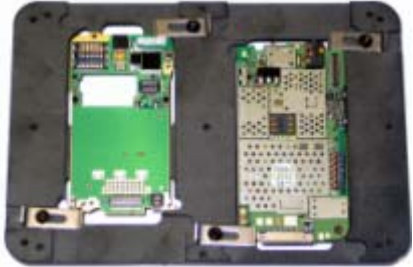
Contents	Page
Service Tools.....	3
Flashing, Testing, and Tuning.....	9
POS Flashing	9
POS Flashing - Setup 1	9
POS Flashing - Setup 2	10
POS Flashing - Setup 3	11
High-volume Flashing and EM Calibration	12
Covers-Off Troubleshooting Using Service Jig (MJ-28)	13
Automated Tuning and Alignment	14



Service Tools



MJ-28 Service Jig	DKU-2 POS Flash Cable
0770745	0730238
	
<p>The MJ-28 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 RUIM card reader, MMC support, and a second DC input for VCHAR used in EM tuning. The jig also supports simultaneous RF connections to the CDMA engine.</p>	<p>The DKU-2 is used for USB flashing. This flash cable is used in conjunction with the FLC-20 or with the FLS-4S for APAC, China, and LTA.</p>
FPS-8 Flash Prommer	FLS-4S POS Flash Adapter
0750123	0080543
	
<p>The FPS-8 is used for phone flashing at authorized service centers.</p>	<p>The FLS-4S allows Point of Sale (POS) locations to flash the handset using the DKU-2 POS Flash Cable.</p>



FLC-20 Flash Device	JBV-1 Docking Station
0081544	0770298
	
<p>The FLC-20 allows Point of Sale (POS) locations to flash the handset using the DKU-2 POS Flash Cable.</p> <p><i>Note: Requires a DKU-2 POS Flash Cable (not included) and FLC-20 USB cable (in FLC-20 Sales Package).</i></p> <p><i>Note: The FLC-20 is not supported in the APAC and LTA markets.</i></p>	<p>This setup allows connection between flash prommers. The Docking Station can be powered by the FPS-8 or an external power supply.</p>
DA-26 Docking Station Adapter	SS-30 Camera Removal Tool
0770777	0780320
	
<p>The DA-26 works in conjunction with the JBV-1 Docking Station and the FPS-8 Prommer Box to allow calibration, tuning and/or software flashing of the handset.</p>	<p>The SS-30 is used to remove the camera module without causing damage.</p>

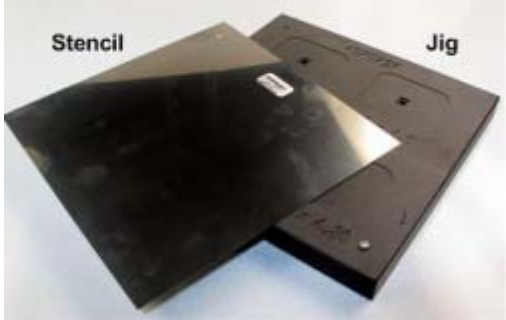

SA-51 GPS Antenna Coupler	PKD-1 SW Security Device
0770869	0750018
	
<p>The SA-51 GPS Antenna Coupler works in conjunction with the DA-26 Docking Station Adapter to allow testing for antenna connection. The DA-26 and coupler assembly fit in the JXS-2 Shield Box.</p>	<p>SW security device PKD-1 is hardware device that, when connected to the parallel (LPT) port of the PC, enables the use of the service software. Without the dongle present, it is not possible to use the service software. 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.</i></p> <p><i>Caution: Do not connect the PKD-1 to the serial port. You may damage the PKD-1 and/or your PC.</i></p>
DAU-9S F/MBUS Cable	SRT-6 Opening Tool
0730267	0770431
	
<p>This is a general-purpose cable to support F-BUS and M-BUS communication between a Mod-10 device and a PC.</p>	<p>The SRT-6 is used to open the A- and B-covers without causing damage.</p>

JSX-2 Shield Box	RJ-35 Soldering Jig
0770673	0770779
 <p>The image shows an open, tan-colored shield box. The interior is lined with blue foam padding. A mobile phone is placed inside the box, secured by a small metal clamp.</p>	 <p>The image shows a black, rectangular soldering jig. It is designed to hold a mobile phone's internal components, such as the main board and antenna, in place for soldering or de-soldering work.</p>
<p>The JSX-2 shield box is used to perform RF radiated testing and antenna testing.</p>	<p>The RJ-35 serves as a mechanical holder for de-soldering and soldering components at authorized service locations. The jig is made of DURAPOL material and supports lead-free rework temperatures.</p>

DKU-8 USB Flash Cable	JBT-9 BT Test Box
0730321	0770336
 <p>The image shows a black USB flash cable. It has a standard USB-A connector on one end and a custom connector on the other, designed for use with mobile phones.</p>	 <p>The image shows a black rectangular test box with a white front panel. The panel features the Nokia logo, an RF-V0 port, and four status LEDs labeled STATUS, AGP, EDP, and Power. The Power LED is currently lit red.</p>
<p>A single-cable solution(USB/FBUS) for Pop-port based, CDMA handsets.</p> <p><i>Note: This cable is not supported in APAC and LTA.</i></p>	<p>The JBT-9 is used for bluetooth testing in CDMA.</p>

XRS-6 RF Test Cable	XCS-4 Data Cable
0730231	0730178
	
<p>The XRS-6 Cable is used to connect service tools to RF measuring equipment.</p>	<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>

SS-36 Domesheet Alignment Jig	CA-26RS RF Test Cable
0780399	0730317
	
<p>The SS-36 is used for replacing the domesheet assembly.</p>	<p>The CA-26RS snaps directly onto the phone's RF connector and converts the output to an SMA connector. This cable is suited for RF tuning and RF testing where UI functionality is not required and repetitive tests are needed (e.g., tuning and calibrating multiple phones).</p>

RJ-62 LGA Duplexer Rework Jig and ST-23 Stencil	RJ-63 LGA Power Amp Rework Jig and ST-24 Stencil
RJ-62 = 0780441; ST-23 = 0780440	RJ-63 = 0780442; ST-24 = 0780443
	
<p>The ST-23 stencil allows rework on LGA-type components. The duplexer (Z7301) requires the use of this stencil and jig.</p> <p><i>Note: Used in conjunction with the SPS-1 Paste Spreader (0770381).</i></p>	<p>The ST-24 stencil allows rework on LGA-type components. The power amplifier (N7301) requires the use of this stencil and jig.</p> <p><i>Note: Used in conjunction with the SPS-1 Paste Spreader (0770381).</i></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 6255/6255i/6256/6256i, 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.

POS Flashing

The method to use for point-of-sales flashing depends on the service software used for flashing, testing and tuning. Use "POS Flashing - Setup 1" if your location uses Spirent software, and use either "POS Flashing - Setup 2" or "POS Flashing - Setup 3" if your location uses Diego software.

POS Flashing - Setup 1

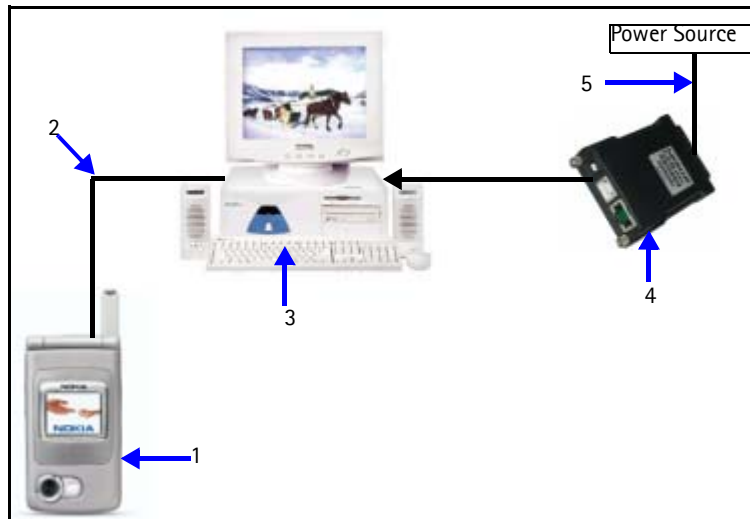
This is the typical configuration used at POS locations using Spirent software.



Item	Name	Type	Code	Notes
1	Flash cable	DKU-8	0730321	<p>This setup is best suited for locations using the UPST service software applications. The DKU-8 device connects to the USB port of the PC running the POS service software application.</p> <p><i>Note: You may require POS Flashing Setup 2 if you use Phoenix or Diego software.</i></p>

POS Flashing - Setup 2

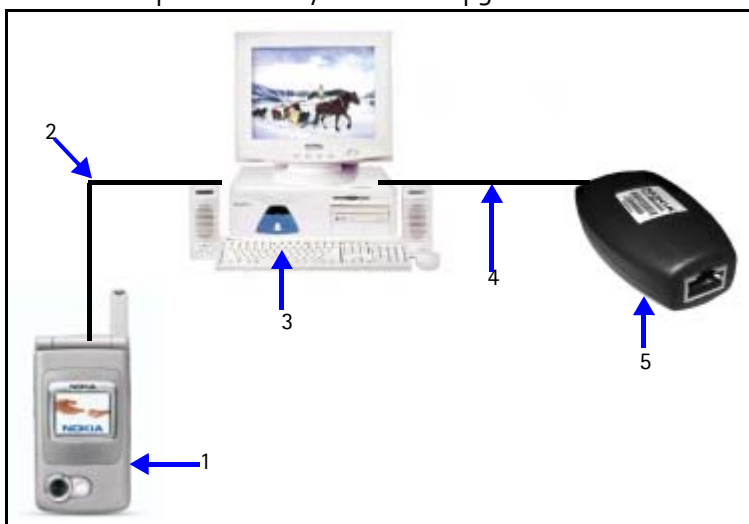
This is a configuration used at the POS locations that use Diego software and an FLS-4S POS Flash Adapter. This setup allows easy software upgrades and minor handset configuration.



Item	Name	Type	Code	Notes
1	Handset	RM-19	N/A	6255, 6255i, 6256, 6256i
2	POS Flash Cable	DKU-2	0730238	Connects to the USB port on the PC.
3	Point of sales software	N/A	N/A	Diego
4	POS Flash Adapter	FLS-4S	0080543	Connects to the parallel port on the PC.
5	Power supply	ACF-8	0680032	Connects to the FLS-4S.

POS Flashing - Setup 3

This is a configuration used at the POS locations that use Diego software and an FLC-20 Flash Device. This setup allows easy software upgrades and minor handset configuration.

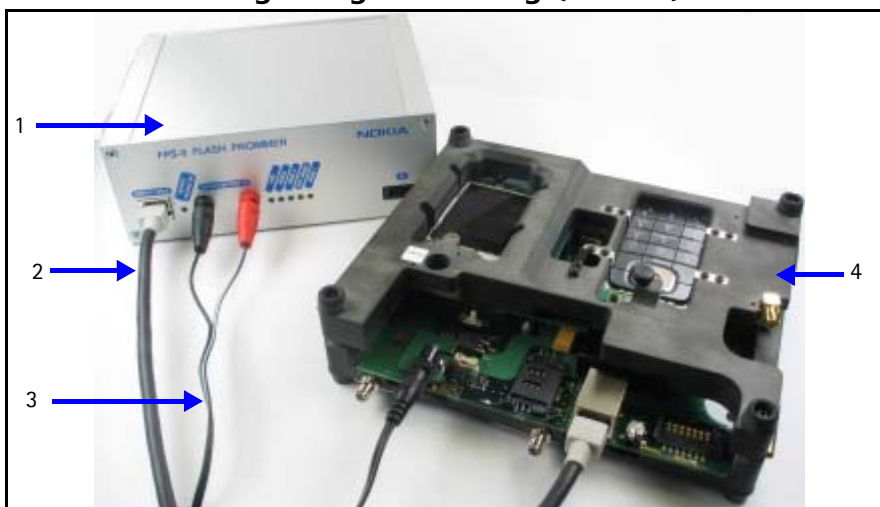


Item	Name	Type	Code	Notes
1	Handset	RM-19	N/A	6255, 6255i, 6256, 6256i
2	POS Flash Cable	DKU-2	0730238	Connects to the USB port on the PC.
3	Point of sales software	N/A	N/A	Diego
4	FLC-20 USB Cable	N/A	0730289	Included in the FLC-20 sales package. Connect to the USB port on the PC and FLC-20.
5	Flash Device	FLC-20	0081544	

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	Modular cable	XCS-4	0730178
3	DC power cable	PCS-1	0730012
4	Docking station	JBV-1	0770298
5	Docking adapter	DA-20	0770777
	Software protection key (not shown)	PKD-1	0750018
	Service software	CDMA Phoenix	8407840

Covers-Off Troubleshooting Using Service Jig (MJ-28)

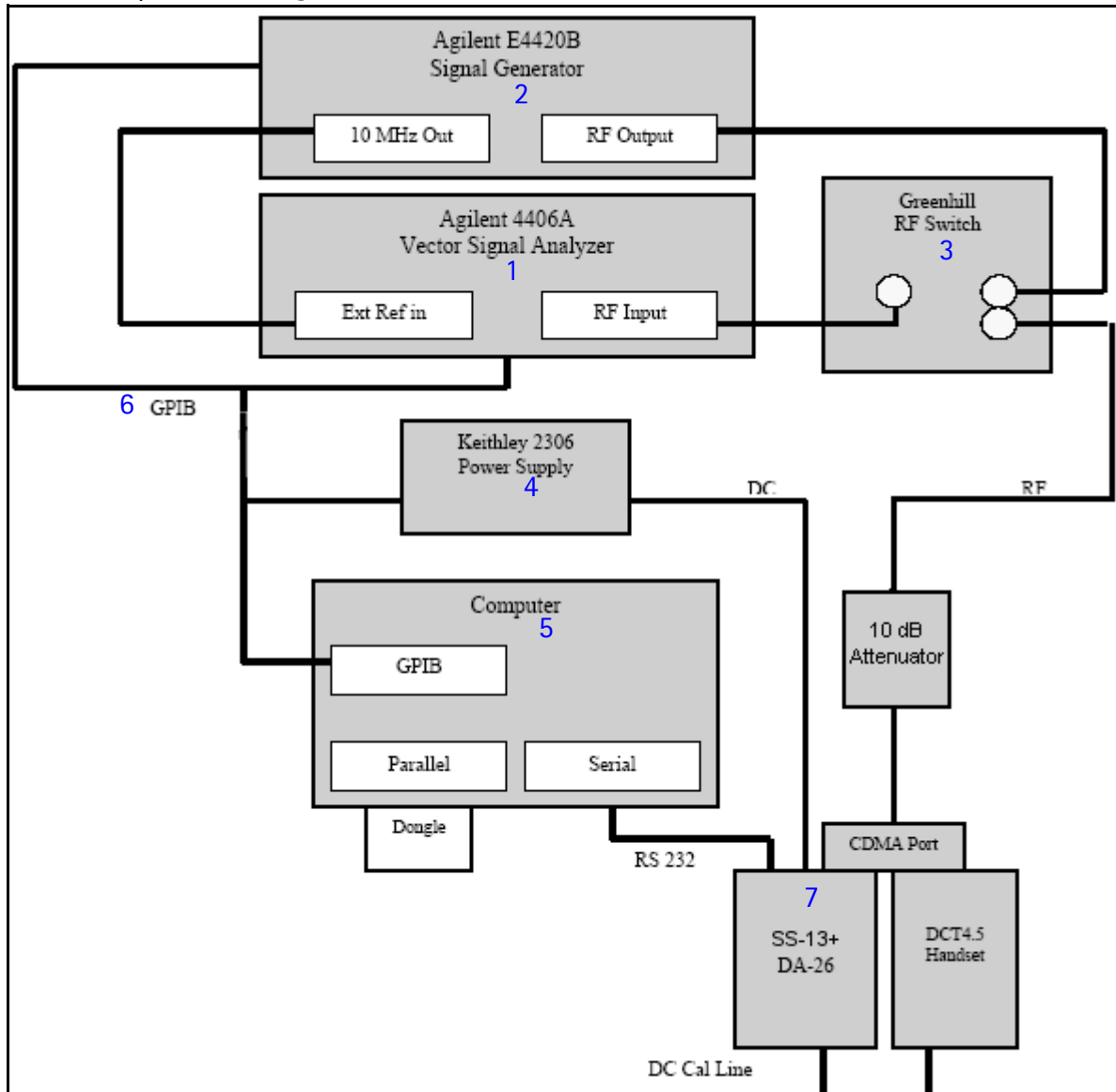


Item	Name	Type	Code
1	Flash prommer box (sales pack) Included in FPS-8 sales pack: Service cable Serial cable Power supply	FPS-8 CA-10DS AXS-4 ACF-8	0080321 0730298 0730090 0680032
2	Modular cable	XCS-4	0730178
3	DC power cable	PCS-1	0730012
4	Service Jig	MJ-28	0770745

Automated Tuning and Alignment

This setup illustrates a DA-26 with Alex handset with an RF test cable. This configuration could be used during testing and/or troubleshooting where the UI functionality of the mobile terminal is required for such tests.

For RF tuning, a modified SS-13 is used, which only supplies power with sense lines to compensate voltage loss.



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

Item	Name	MFR	Model #	QTY	Comment
3	RF Relay Switch Box	PMJ	S602219-0 or S602228-0	1	Relay Switch Box with GPIB control. Order from PWS via SHIP -> Order CDMA RF Relay Switch Box link.
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.
6	NI-GPIB Interface	NI	GPIB-USB-B	2	USB to GPIB adapter 184983G-01 This is a National Instruments device.
7	Docking Station	Nokia	0080852 (SS-13)	1	CDMA-specific RF tuning station. This is a modified JBV-1, and the kit includes a power supply cable (0730305).

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