Nokia Customer Care
6265/6265i/6268 (RM–66)
Mobile Terminals

Service Tools

Company Confidential

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Service Tools

CA–53 Accessory/Flash Cable

The CA-53 allows bottom connector flashing using the FLS-4S Flash Device or the FLC-20 Flash Device.

CA–56RS RF Test Cable

The CA-56RS test cable is used for RF engine troubleshooting with covers off. This cable has a shorter probe making it more stable when connected to the PWB RF connector. The CA-56RS supports testing of both GPS and Cellular engines on the mobile terminal.


CA–57RS RF Test Cable

The CA-57RS test cable is used for RF engine troubleshooting with covers on. This cable has a longer RF probe allowing it to fit through the holes provided in the audio chamber once the E-cover has been removed.

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CPL–8 GPS Antenna Coupler

The CPL-8 allows authorized service centers to test the GPS antenna during handset troubleshooting. The coupler is attached to (and detached from) the DA-57 Docking Station Adapter.
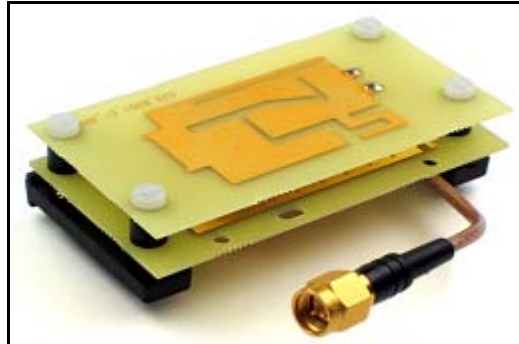
Note: The DA-57 and the coupler assembly fit into the JXS-2 Shield Box

DA–57 Docking Station Adapter

The DA-57 works in conjunction with the JBV-1 Docking Station and the FPS-8, FPS-10 Prommer Boxes to allow calibration, and software flashing of the mobile terminal. The DA-57 also has a built-in RUIM card reader and supports both Local and Normal modes.

DAU–9S FBUS/MBUS Cable

The DAU-9S is a general purpose cable that supports FBUS/MBUS communication between a Mod-10 device and a PC.

FLS-4S Flashing Device

The FLS-4S allows Point of Sale (POS) locations to flash the handset.

FPS-8 Flash Prommer

The FPS-8 is used for mobile terminal flashing at authorized service centers.

FPS-10 Flash Prommer

The FPS-10 replaces the FPS-8 Flash Prommer. The FPS-10 allows the flash code to be pre-loaded into the unit's memory and then can be flashed directly to the handset at high speeds.

JBV-1 Docking Station

The JBV-1 connects flash prommers. The docking station can be powered by the FPS-8/ FPS-10 Flash Prommers or by an external power supply.

JXS-2 Shield Box

The JXS-2 is used to perform RF radiated testing and antenna testing.

MJ-73 Module Jig

The MJ-73 is used as a means to secure the PWBs and allows easy access to critical areas for troubleshooting. It supports regulated and unregulated DC power input, local and Normal mode operations, a headset jack for audio tests, a R-UIM card reader and a second DC input for VCHAR used in EM tuning.
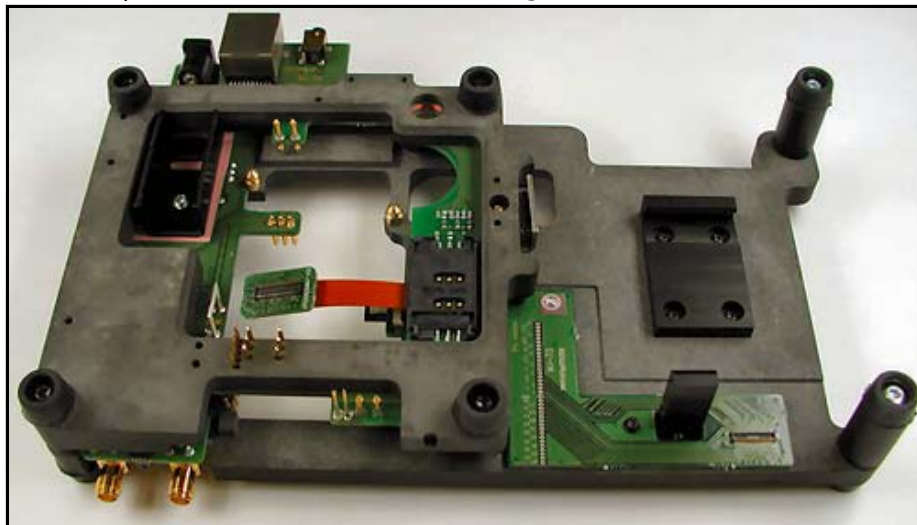
PKD–1 Software Security Dongle

The PKD-1 is a hardware dongle that, when connected to the parallel (LPT) port of the PC, enables the use of the 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.


Caution: Make sure that you have switched off the PC and the printer before making connections.

Caution: Do not connect the PKD-1 to the serial port. You may damage your PKD-1 and/or your PC.

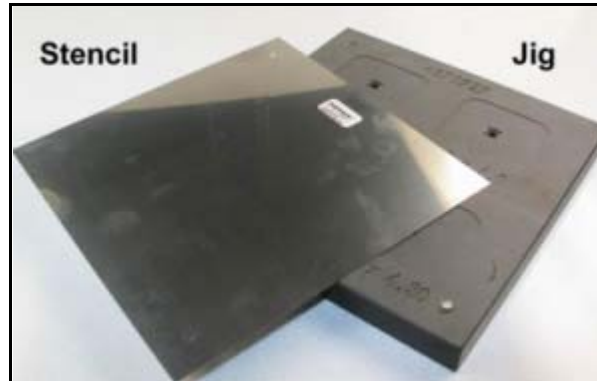## RJ–18 LGA Rework Jig and ST–16 PA Stencil

The ST-16 stencil allows rework on LGA-type components that do not have pre-tinned pads. Both power amps require the use of this stencil. The stencil is designed to specifically fit the N7300 and N7301 pad configurations and dimensions. The RJ–18 fits the physical dimension of the N7300 and N7301.

Note: Used in conjunction with the SPS-1 Paste Spreader.

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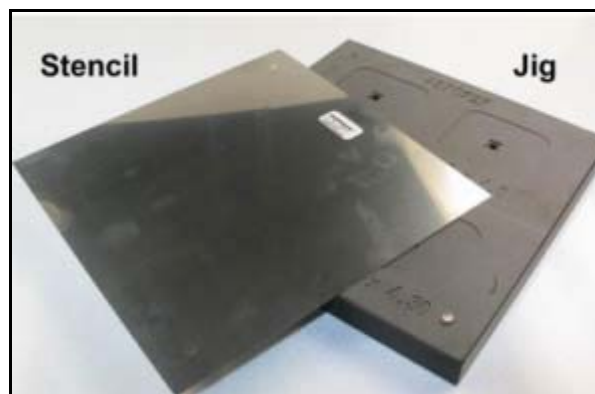
RJ–55 LGA Rework Jig and ST–20 Stencil

The ST-20 stencil allows rework on LGA-type components that do not have pre-tinned pads. The stencil is designed to specifically fit the N6601 pad configuration and dimensions while the rework jig fits the physical dimension of the N6601.

Note: Used in conjunction with the SPS-1 Paste Spreader.
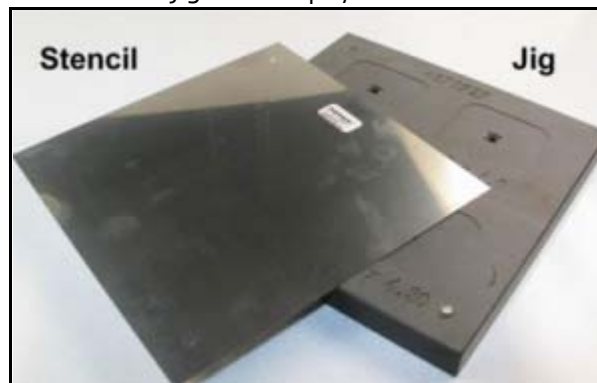
RJ–64 LGA Rework Jig and ST–24 Stencil

The ST-24 stencil allows rework on LGA-type components that do not have pre-tinned pads. The stencil is designed to specifically fit the N7160 pad configuration and dimensions while the rework jig fits the physical dimension of the N7160.

Note: Used in conjunction with the SPS-1 Paste Spreader.
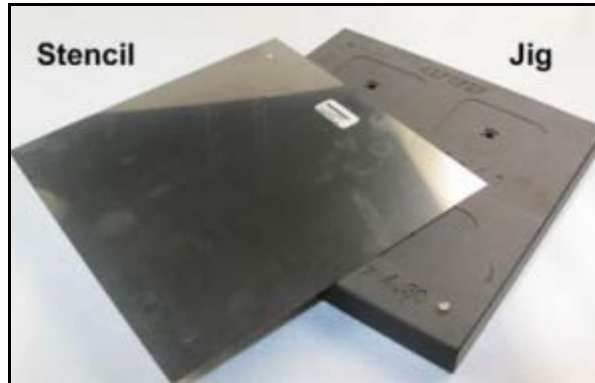
RJ–65 LGA Rework Jig and ST–25 Stencil

The ST-25 stencil allows rework on LGA-type components that do not have pre-tinned pads. The stencil is designed to specifically fit the N7000 pad configuration and dimensions while the rework jig fits the physical dimension of the N7000.

Note: Used in conjunction with the SPS-1 Paste Spreader.

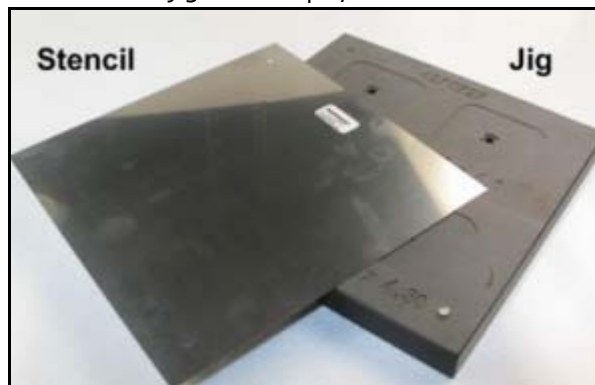## RJ–71 LGA Rework Jig and ST–26 Stencil

The ST-26 stencil allows rework on LGA-type components that do not have pre-tinned pads. The stencil is designed to specifically fit the N6600 pad configuration and dimensions while the rework jig fits the physical dimension of the N6600.

Note: Used in conjunction with the SPS-1 Paste Spreader.

RJ–90 Soldering Jig

The RJ-90 serves as a mechanical holder for desoldering and soldering of components. It provides a convenient means to replace components on the PWB when they are changed during service repairs at authorized CARE locations.

Note: The RJ-90 is not intended to serve as a test jig.

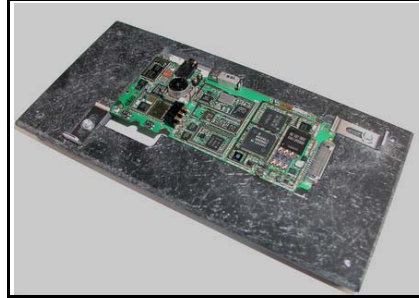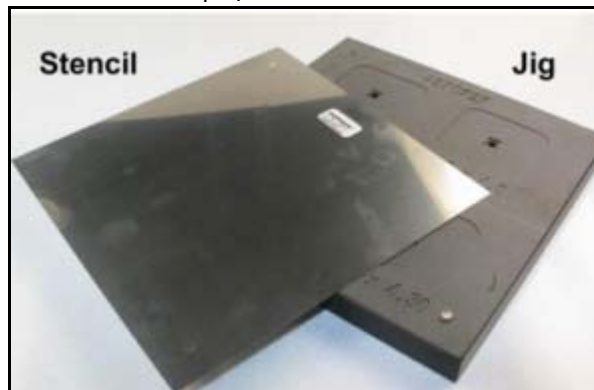## RJ–100 LGA Rework Jig and ST–34 PA Stencil

The ST–34 stencil allows rework on LGA–type components that do not have pre-tinned pads. The stencil is designed to specifically fit the N7200 pad configuration and dimensions. The RJ–100 fits the physical dimension of the N7200.

Note: Used in conjunction with the SPS-1 Paste Spreader.
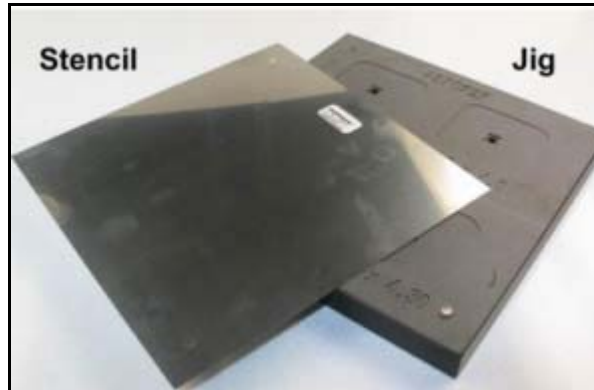
RJ-101 LGA Rework Jig and ST-35 PA Stencil

The ST-35 stencil allows rework on LGA-type components that do not have pre-tinned pads. The stencil is designed to specifically fit the Z7302 pad configuration and dimensions. The RJ-101 fits the physical dimension of the Z7302.

Note: Used in conjunction with the SPS-1 Paste Spreader.

SRT-6 Opening Tool

The SRT-6 is used to open and remove parts during disassembly of the mobile terminal.

SS-45 Camera Removal Tool

The SS-45 is used to remove the camera from its socket.

SS-69 Domesheet Alignment Jig

The SS-69 is used to replace and align the domesheet on the PWB engine.
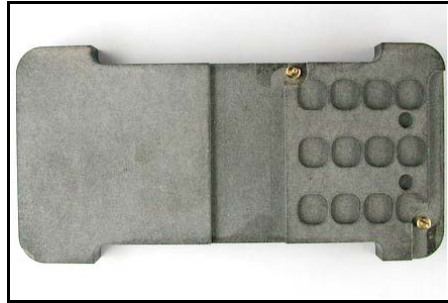
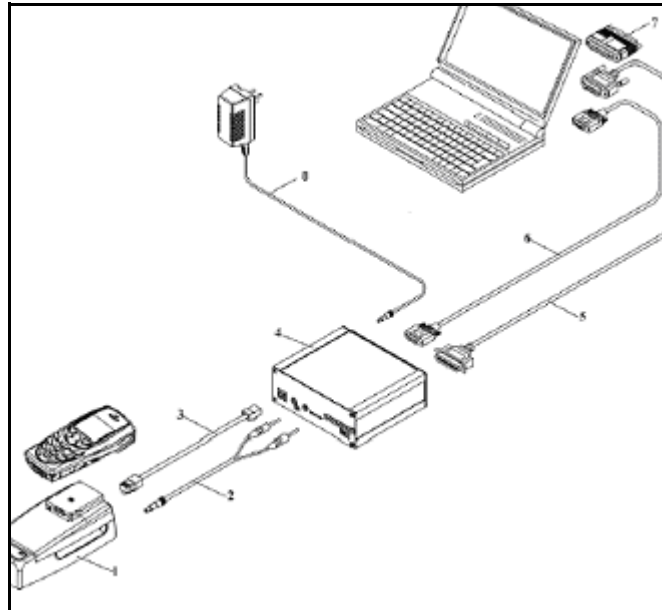*Note: The SS-69 is not intended to serve as a test jig.*

XCS-4 MBUS/FBUS Cable

The XCS-4 is a general purpose cable for flashing and communicating with the mobile terminal. It is used to connect the FPS-8 Flash Prommer to the docking station adapter or the service jig.

Service Configurations

Service Setup 1

Item	Name	Type
	Docking Station	JBV-1
1	Docking Station Adapter	DA-57
2	DC Power Cable	PCS-1
3	Modular Cable	XCS-4
4	Flash Prommer Box	FPS-8 or FPS-10
5	Printer Cable (included with FPS-8)	CA-10DS
6	D9-D9 Cable (included with FPS-8)	AXS-4
7	SW Protection Key	PKD-1
8	AC Charger	ACP-8F

Service Setup 2
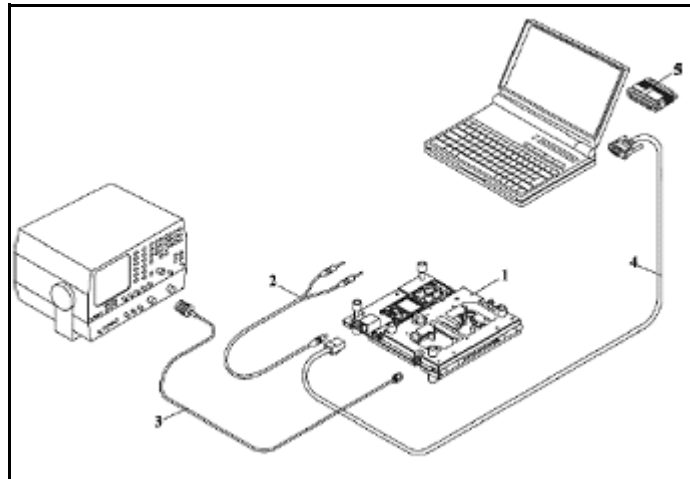
Item	Name	Type
1	Module Jig	MJ–73
2	DC Power Cable	PCS–1
3	RF Antenna Cable	XRS–6
4	Service MBUS Cable	DAU–9S
5	SW Protection Key	PKD–1
6	RF Test Cable	CA–57RS

Service Setup 3
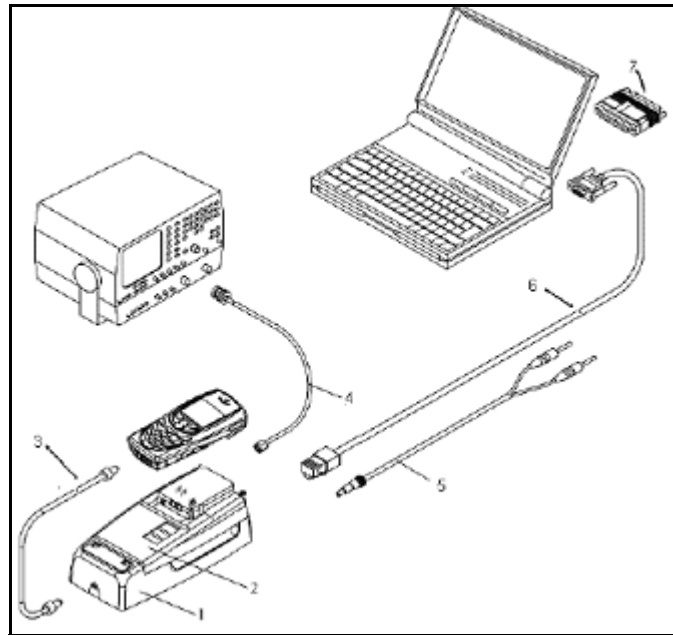
Item	Name	Type
1	Docking Station	JBV–1
2	Docking Station Adapter	DA–57
3	DC Service Cable	CA–52PS
4	RF Antenna Cable	XRS–6
5	DC Power Cable	PCS–1
6	Service MBUS Cable	DAU–9S
7	SW Protection Key	PKD–1

Service Setup 4: Automated Tuning and Alignment
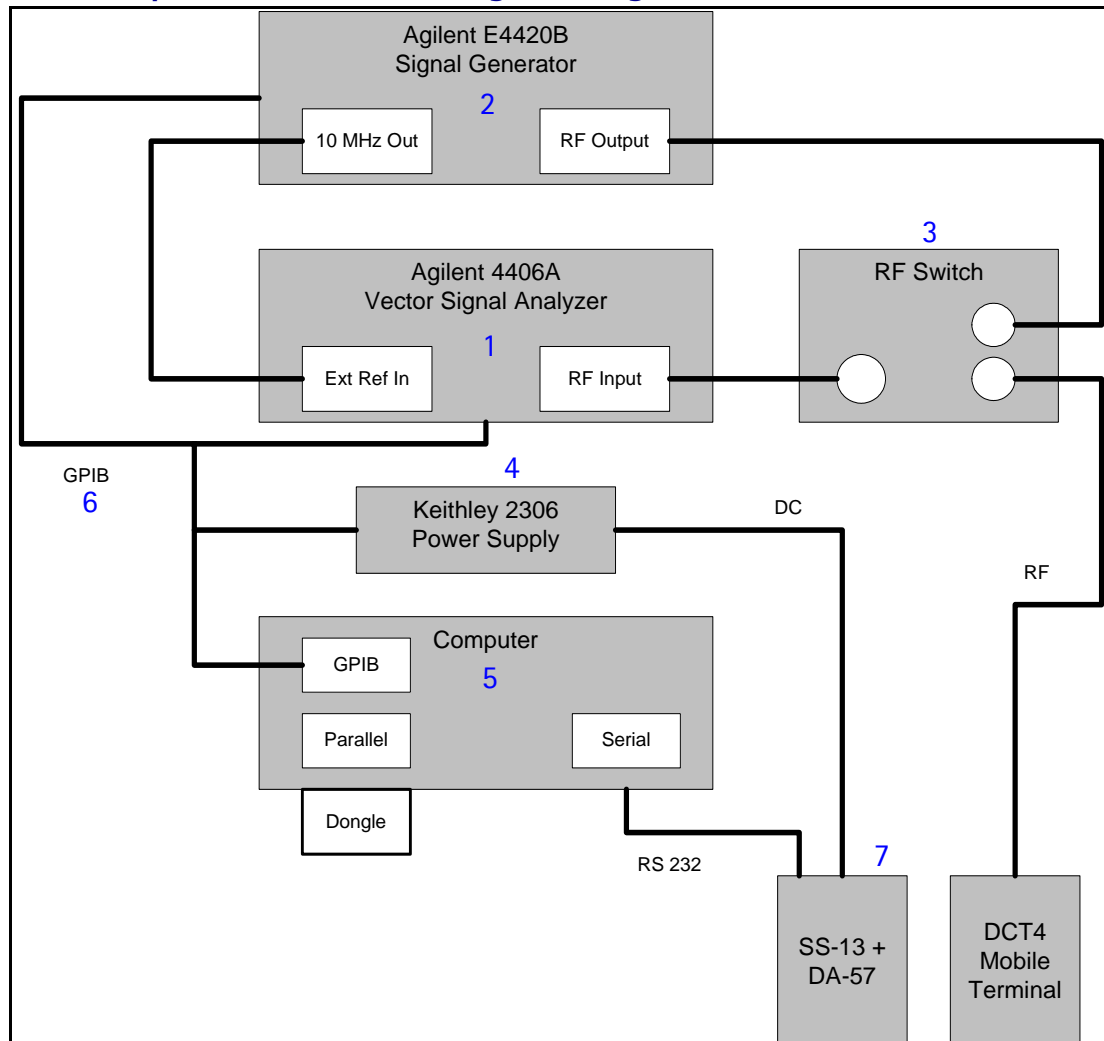
Item	Name	MFR	Model #	QTY	Comment
1	Vector Signal Analyzer	Agilent	E4406A	1	Options B78, BAC and BAE
2	Signal Generator	Agilent	E4421B	1	Digital signal generator with high-stability oscillator and high-spectral purity
3	RF Switch	GreenHill	TVi9901	1	
4	Power Supply	Keithley	K2306	2	Programmable with sense wire
5	Win2000 PC			2	Dell with Pentium III or above, network card, 256M RAM, 20GB HD, CD-ROM, etc.
6	GPIB Interface	NI	GPIB-USB-A	2	USB to GPIB adapter (184983G-01)
7	Docking Station	Nokia	SS-13	1	For DCT4 handset tuning
8	10dB Attenuator				
9	Security Key (Dongle)	Nokia	PDK-1		

Service Setup 5: GPS Engine Testing

Use this setup for testing the GPS engine at Nokia Authorized Service Centers. Both galvanic and radiated tests are supported. The **GPS Test** component in Phoenix provides functionality to perform these tests. (See the *Baseband Description and Troubleshooting* chapter for more information about GPS testing.)
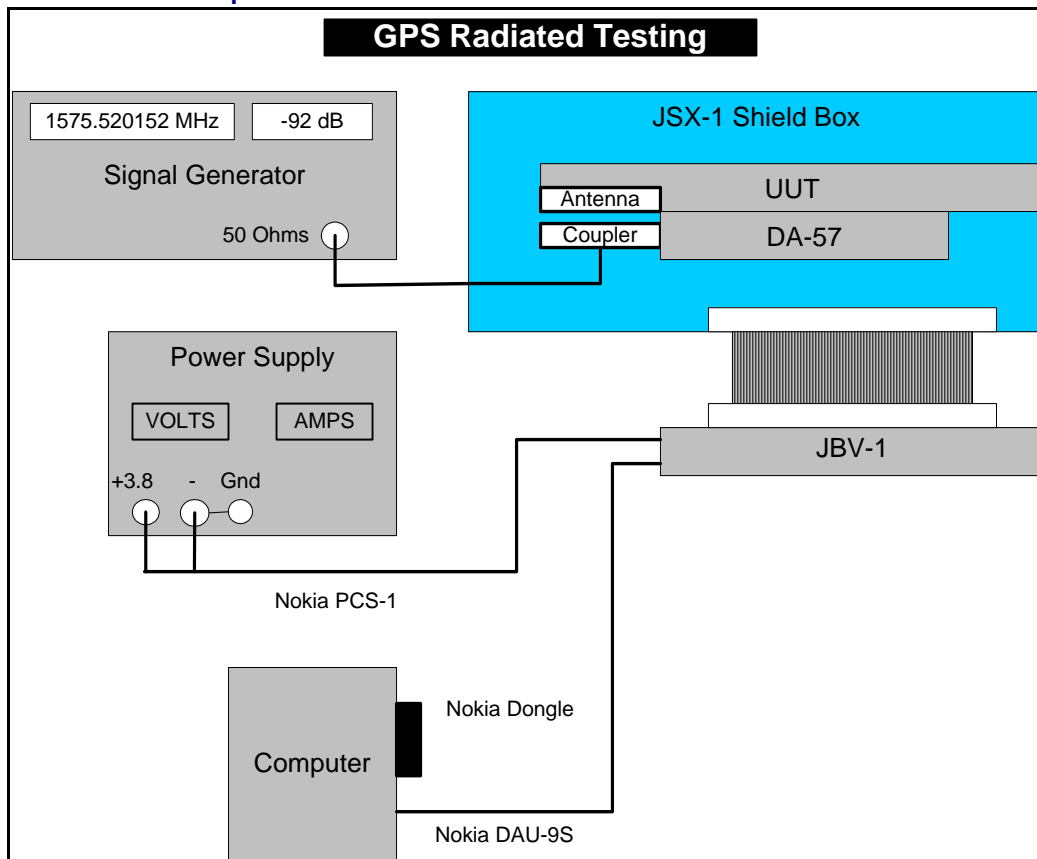
GPS Engine Test Setup
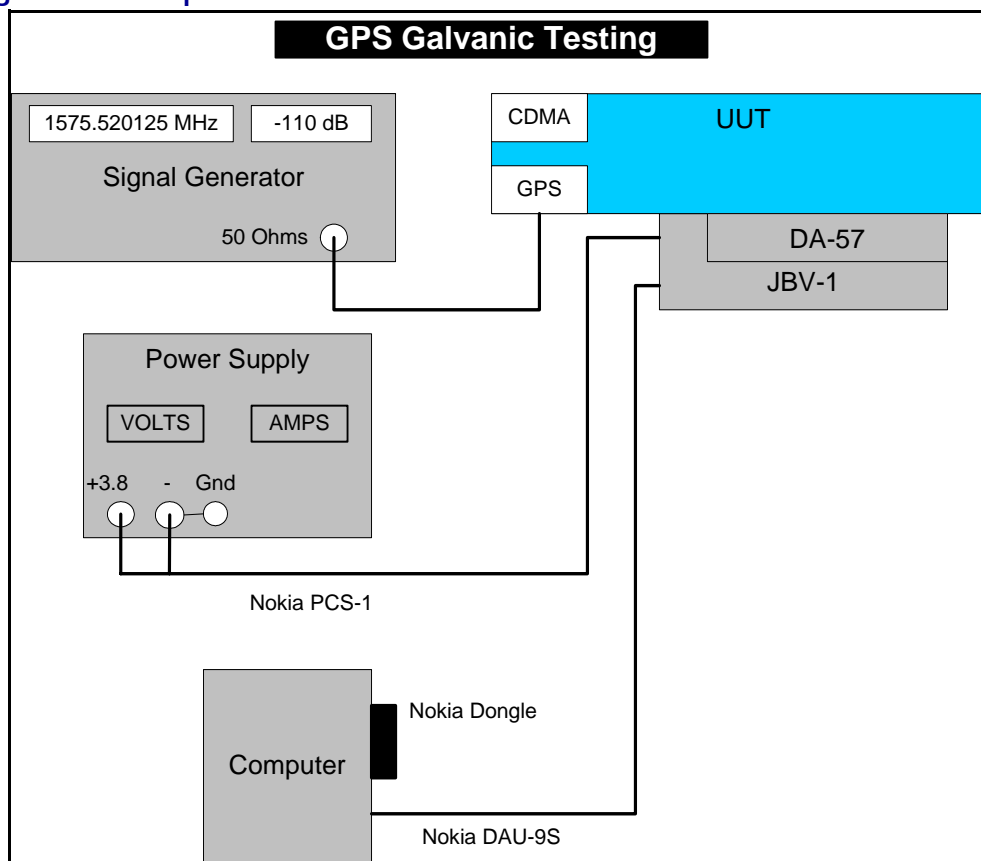
Following is a list of equipment needed for galvanic GPS engine testing:

- Power supply
- Signal generator
- Computer (Pentium 3+, Windows 2000)
- JBV–1 Docking Station
- DA–57 Docking Station Adapter
- PCS–1 DC Power Cable
- DAU–9S MBUS/FBUS Cable
- PKD–1 Dongle
- SA–9 RF Support
- XRS–4 RF Test Cable
- Miscellaneous RF Cables

GPS Antenna Test Setup

GPS Radiated Testing

1575.520152 MHz | -92 dB

Signal Generator

50 Ohms

JSX-1 Shield Box

Antenna | UUT
Coupler | DA-57

Power Supply

VOLTS | AMPS

+3.8 | - | Gnd

Nokia PCS-1

JBV-1

Computer

Nokia Dongle

Nokia DAU-9S

Following is a list of equipment needed for radiated GPS antenna testing:

- 4VDC power supply

- Signal generator

- Computer (Pentium 3+, Windows 2000)

- JBV–1 Docking Station

- DA–57 Docking Station Adapter

- PCS–1 DC Power Cable

- DAU–9S MBUS/FBUS Cable

- PKD–1 Dongle

- CPL–8 Antenna Coupler

- SA–8 RF Support

- XRS–4 RF Test Cable

- JXS–1 Shield Box

- Miscellaneous RF cables