

**Operating and Service Manual**

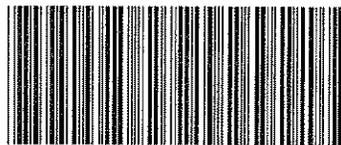
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**85130B NMD 3.5 mm to 7 mm  
Adapter Kit**



Part Number 85130-90006

Printed in USA July 2004



85130-90006

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## Hewlett-Packard to Agilent Technologies Transition

This documentation supports a product that previously shipped under the Hewlett-Packard company brand name. The brand name has now been changed to Agilent Technologies. The two products are functionally identical, only our name has changed. The document still includes references to Hewlett-Packard products, some of which have been transitioned to Agilent Technologies.

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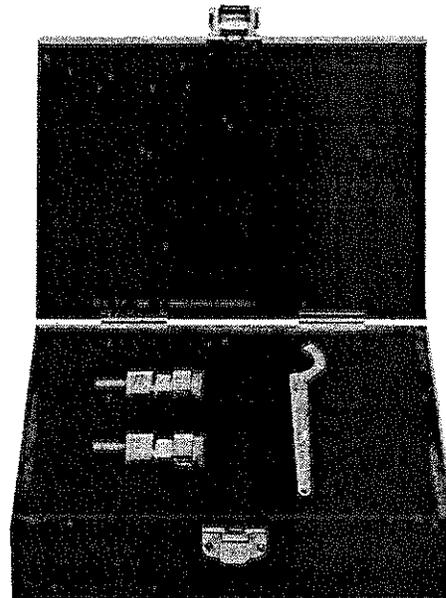
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OPERATING AND SERVICE MANUAL

**HP 85130B  
NMD 3.5 mm to 7 mm  
ADAPTER KIT**



**HEWLETT  
PACKARD**

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*For any assistance, contact your nearest Hewlett-Packard Sales and Service Office. Addresses are provided at the back of this manual.*

## HP 85130B Adapter Kit

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### GENERAL INFORMATION

To obtain optimum performance from this adapter kit, observe these simple precautions:

- Make connections carefully to avoid misalignment and connector damage, which will result in inaccurate measurements.
- Keep the connectors free of dirt and any particles.
- When you clean the connectors, try clean compressed air first. Do not use abrasives. With a clean foam swab, apply **only** Freon TF as a solvent.
- For more information, refer to the Microwave Connector Care manual.

### DESCRIPTION

The HP 85130B adapters are used when 7mm devices must be attached to a 3.5mm test set in an HP 8510 network analyzer system. The test set end of the adapters has a NMD-3.5mm connector while the Device Under Test (DUT) end has a precision 7mm connector. You should never attempt to use these adapters on test sets with 7mm test ports.

### CONTENTS

The HP 85130B kit contains the following:

Test port adapter, NMD-3.5 to 7mm (2 ea)	85130-60003
Storage box, foam lined	85130-60004
Operating and Service Manual	85130-90006
Spanner wrench	08513-20014

## SPECIFICATIONS

Hewlett-Packard guarantees that your adapters will equal or exceed the following specifications:

The inner conductor of the NMD-3.5mm connector should be recessed 0.0000-0.0022 inches (0.000-0.056 mm) below the mating surface of the outer conductor.

The center conductor of the 7mm connector, with the collet removed, should be recessed  $0.0005 \pm 0.0003$  inches ( $0.013 \pm 0.008$  mm) below the mating surface of the outer conductor.

The HP 85130B adapters exhibit the following electrical performance:

<8 GHz	.....	>34 dB return loss
8-18 GHz	.....	>28 dB return loss

## REPLACEABLE PARTS

Only the center collet of the 7mm connector is field-replaceable. If the collet becomes damaged, loses its springiness or will not return to position after being depressed, or does not protrude 0.002-0.010 inches (0.05-0.25mm) beyond the mating plane of the outer conductor, it must be replaced. To replace the collet use the HP extractor tool, and precision 6-slot replacement collet. Refer to the Microwave Connector Care manual for further information.

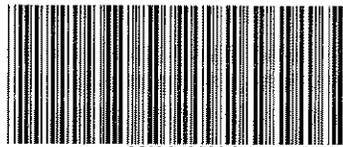
## EQUIPMENT AND SUPPLIES

The following equipment and supplies are required for the maintenance and use of, but are not supplied with, your HP 85130B adapter kit.

3.5mm gage kit	.....	1250-1862
7mm gage kit	.....	1250-1875
7mm torque wrench	.....	8710-1766
Extractor tool, used to remove the collet	.....	5060-0236
Microwave Connector Care Manual	.....	08510-90064
Precision 6-slot collet	.....	85050-20001
Connector cleaning kit	.....	92193Z

## Contacting Agilent

Online assistance: <a href="http://www.agilent.com/find/assist">www.agilent.com/find/assist</a>			
Americas			
<b>Brazil</b> <i>(tel)</i> (+55) 11 4197 3700 <i>(fax)</i> (+55) 11 4197 3800	<b>Canada</b> <i>(tel)</i> 888 447 7378	<b>Mexico</b> <i>(tel)</i> 1 800 734 7703 <i>(fax)</i> 1 800 734 7704	<b>United States</b> <i>(tel)</i> 800 829 4444 <i>(alt)</i> (+1) 303 662 3998 <i>(fax)</i> 800 829 4433
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<i>(tel)</i> = primary telephone number; <i>(alt)</i> = alternate telephone number; <i>(fax)</i> = FAX number; * = in country number			



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