# 8662A Signal Generator Attenuator Retrofit Kit Part Number 08662-60586 Installation Note



Part No. 08662-90085

Printed in USA August 2001

Supersedes November 1998

### Notice.

The information contained in this document is subject to change without notice.

Agilent Technologies makes no warranty of any kind with regard to this material, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Agilent Technologies shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

### **Tools Required**

Ring nut driver Pliers Sharp, pointed tool

# Safety Considerations Warning Before you disassemble the instrument, turn the power switch OFF and unplug the instrument. Failure to unplug the instrument can result in personal injury. Caution Electrostatic discharge (ESD) can damage or destroy electronic components. All work on electronic assemblies should be performed at a static-safe workstation. Refer to the documentation that pertains to your instrument for information about static-safe workstations and ordering static-safe accessories.

### Introduction

Older style attenuators used in the 8662A signal generator have been obsoleted from production. Part numbers 08662-60002, 08662-60082, 08662-60086, and 08662-60089 are no longer available as replacements and must be replaced using this retrofit kit.

The attenuator set supplied in this kit is a significant improvement in reliability and performance compared to older styles. Installation of this kit will upgrade older 8662s to current Agilent Technologies production standards.

Information contained in the following procedure should be retained in the 8662A service manual.

### Installation Procedure

- 1. Remove any power cord or external connections that may be attached to the 8662A. Remove the rear feet and the top cover.
- 2. Remove and discard the old A3A1 Reverse Power Driver. (See item 9 in Figure 2.) Remove and discard the old A2A3 Mod/Latch Driver. (See item 11 in Figure 2.) Remove and discard the old memory cards that may be in position A2A7, A2A8, or A2A9.
- 3. To continue the installation, it is necessary to drop the front panel of the 8662A and remove the plastic trim strip installed in the top of the front frame. This can be done by prying up one end of the strip with a sharp, pointed tool. Under the trim strip you will find two 6-32 flat-head screws. Remove and save these screws. Turn the 8662A on its side and on the bottom edge of the front frame you will find four more 6-32 flat-head screws. Remove and save the two that attach the front frame.
- 4. Some instruments have a ring nut holding the front frame to the Type-N output connector. The ring nut must be carefully removed and saved. Use either the proper ring nut driver or a pair of pliers.

### Caution

When using pliers, extreme care must be taken to prevent scratching the front panel.

The front panel should now pull away from the frame and drop down on its hinge. The attenuator and RF cables are readily accessible for service.

- 5. Remove and discard the entire attenuator assembly, including all attaching cables.
- 6. If the 8662A used a ni-cad battery pack as memory backup, it will need to be removed. Memory backup is self-contained on the new RAM/ROM A2A8 memory board provided in this kit.
- 7. Install all new attenuator hardware as shown in figures 1, 2, and 3. Some 8662As have rear panel RF outputs; item 3 will be used in place of item 2. (See Figure 1.) The cable will require careful routing down the very center of the instrument. The ribbon control cables for the new attenuators are routed through the center of the instrument and up to the new latch driver board. (See Figure 2.)

- 8. Install the new RAM/ROM memory board in position A2A8. (See item 12 on the packing list.) Positions A2A7 and A2A9 are left unused in the latest configuration.
- 9. Re-assemble the front panel and frame assembly using screws and hardware saved from steps 3 and 4 above. Take extra care in attaching the ring nut on the Type-N RF connector to lessen the chance of scratching the front panel. Also, inspect all ribbon cables for proper seating before closing the front panel.

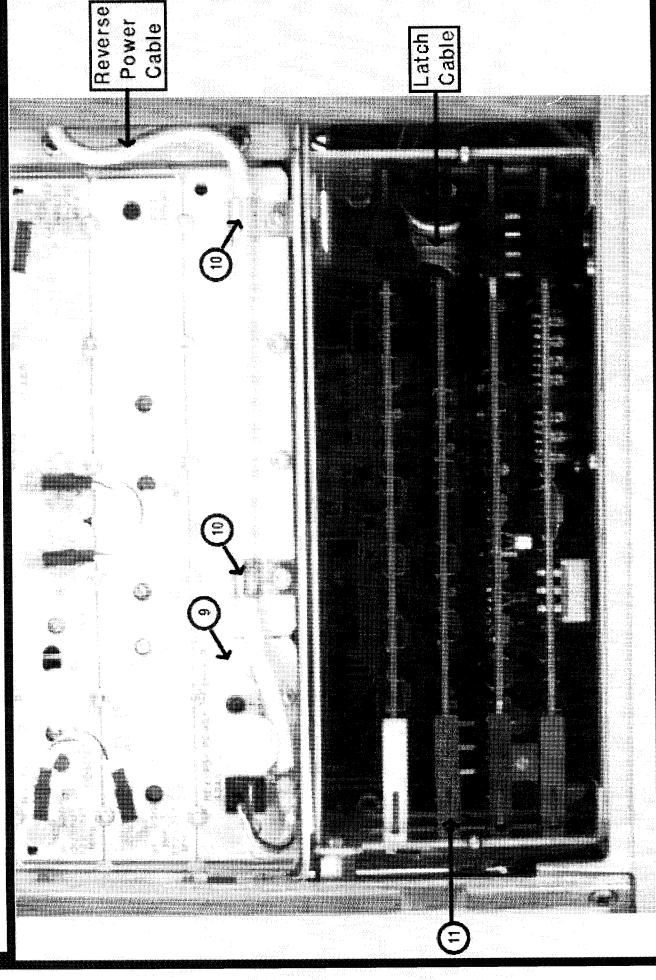


Figure: 2

Rev. A

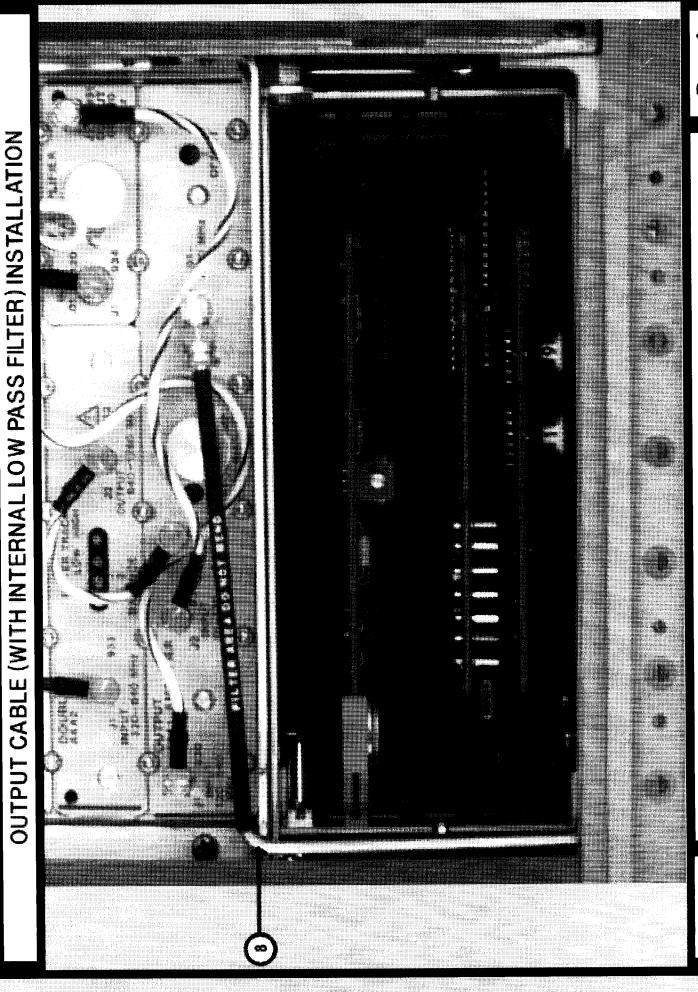


Figure: 3

## Packing List 08660-60586

The following items are packed as part of this kit. Please insure that all items have been packed or received.

Product Line	Shipping	Customer	
			Item 1 08662-60585 (qty = 1) Attenuator Set
			Item 2 08662-20337 (qty = 1) Front Panel Cable
			Item 3 08662-20339 (qty = 1) Rear Panel Cable
			Item 4 2360-0113 (qty = 2) 6-32 Screw
			Item 5 2200-0103 (qty = 2) 4-40 Screw
			Item 6 1400-0014 (qty = 1) Cable Clamp
			Item 7 2360-0115 (qty = 2) 6-32 Screw
			Item 8 08662-20293 (qty = 1) Filter Cable
			Item 9 08662-60335 (qty = 1) Rev Power Driver
			Item 10 1400-0015 (qty = 2) Cable Clamp
			Item 11 08662-60334 (qty = 1) Latch Driver
			Item 12 08662-60429 (qty = 1) RAM/ROM Memory
			Item 13 08662-90085 (qty = 1) Installation Instructions
Checked By (initial)	Checked By (initial)		

### ATTENUATOR ASSY RETROFIT KIT PART 08662-60586

# TO BE OPENED BY END USER

Item 1
08662-60585
Attenuator Set
Qty 1

Item 3
08662-20339
Rear Panel Cable
Qty 1

Item 4
2360-0113
6-32 Screw
Qty 2

Item 7
2360-0115
6-32 Screw
Qty 2

Item 9 08662-60335 Reverse Power Driver Qty 1

Item 10
1400-0015
Cable Clamp
Otv 2

Item 12 08662-60429 RAM/ROM Memory Qty 1

Item 13 08662-90085 Installation Instructions Qty 1