

Installation Note

PC Board Retainer Kit for Agilent Technologies ESA L1500A Spectrum Analyzers



Agilent Technologies

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PC Board Retainer Kit for ESA L1500A Spectrum Analyzers

Products Affected:	E4411A
Serial Numbers:	US00000000/US39032685
Options:	none
To Be Performed By:	(X) Agilent Technologies Service Center (X) Personnel Qualified by Agilent Technologies (X) Customer
Estimated Installation Time:	1.0 Hours

Introduction

This kit contains all parts and instructions to install the PC Board Retainer Kit. Installation of this kit reduces the potential that plug-in printed circuit boards will come out of their edge connectors during rough handling of the instrument, particularly during shipment.

Installation Kit Parts List

PC Board Retainer Kit Contents

Item	Quantity	Description	Part Number
1	1	PC Board Retainer	none
2	1	Installation Note	E4411-90063

Tools Required

- ☐ T-10 TORX screwdriver
- ☐ T-15 TORX screwdriver

Installation Procedure

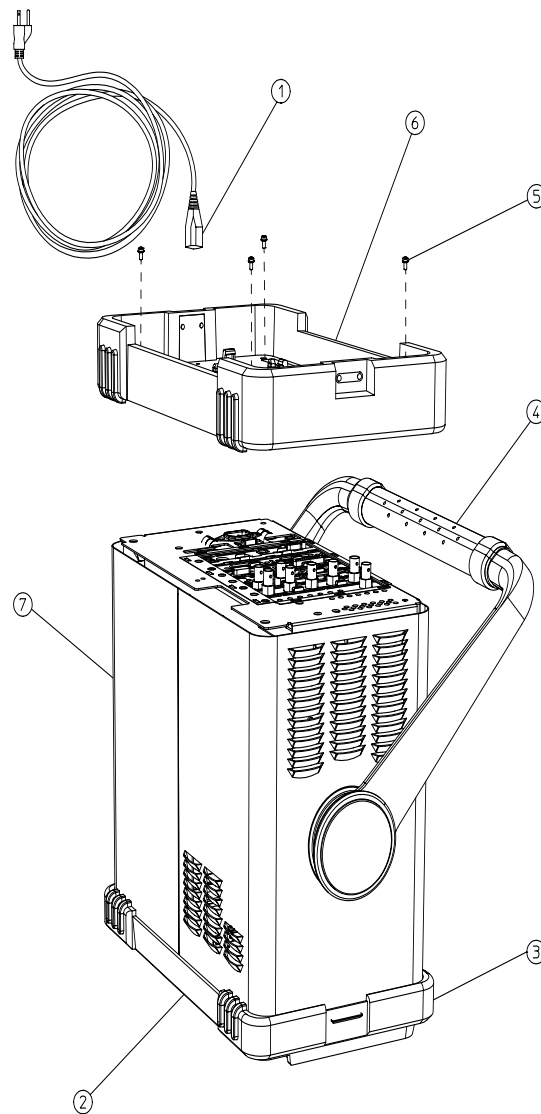
WARNING **Before you disassemble the instrument, turn the power switch OFF and unplug the instrument. Failure to unplug the instrument can result in personal injury.**

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.

Remove Rear Frame and Outer Cover

1. Disconnect the ac power cord from the spectrum analyzer.
2. Refer to Figure 1. Carefully put the analyzer on the work surface with the front frame, (2) and (3), facing down.
3. Position the handle (4) as shown in the figure.
4. Remove the four screws (5) that hold the rear frame (6) and outer case (7) in place.
5. Lift the instrument rear frame (6) and outer cover (7) up and off of the instrument and set them aside.

Figure 1. Rear Frame and Outer Cover Removal

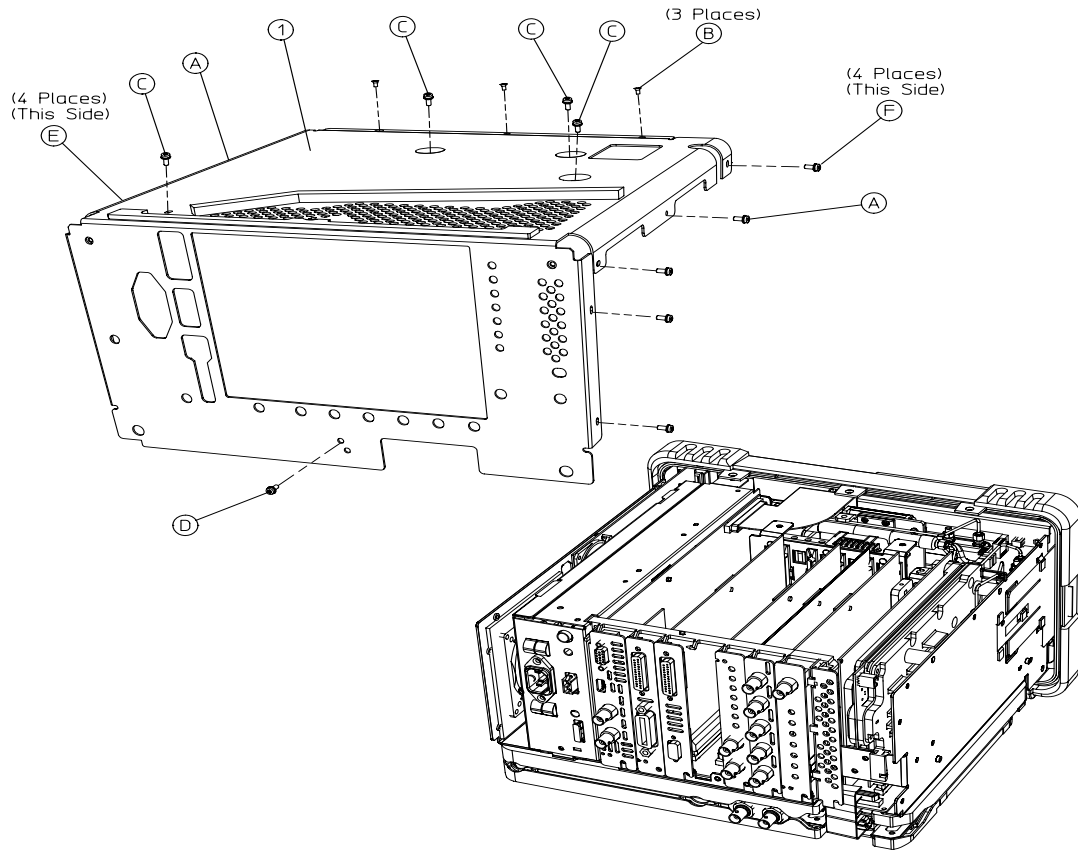


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Remove Inner Shield

6. Refer to Figure 2. Remove the screws (A, B, C, D, E, and F) attaching the inner shield (1) to the chassis.
7. Remove the inner shield from the chassis.

Figure 2. Remove Inner Shield



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Install the PC Board Retainer

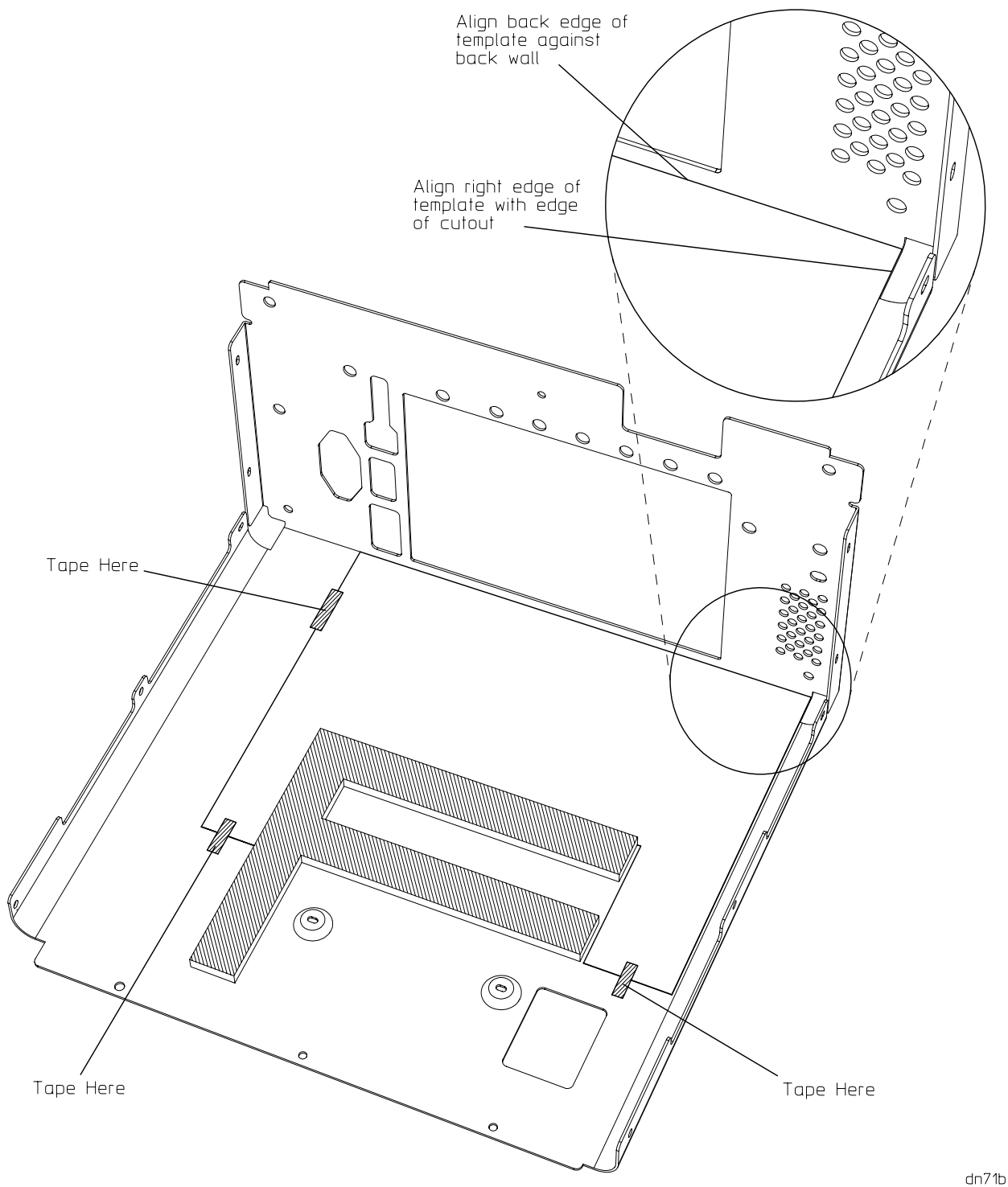
8. Put the instrument inner shield upside-down on a flat surface in front of you as shown in Figure 3, with the front edge of the shield facing you.
9. Locate and cut out the PC board retainer installation template in this note along the border of the template. Cut the template edges as straight as possible.
10. Put the template on the inside of the shield as shown in the figure. Make sure the template side with lines on it faces up. Align the template so that the back edge is against the 90 degree bend on the inside edge of the rear of the shield. Align the right edge of the template to be even with the leftmost edge of the cutout in the right rear corner of the shield.

CAUTION Alignment of the template is very important. Improper alignment can cause the PC board retainer to interfere with the power supply.

11. With these two edges aligned, tape the template to the shield in the three places shown in the figure.
12. Locate the retainer and remove the wax paper from the back of it to expose the sticky adhesive backing.

Locate and align the retainer “arms” horizontally with the vertical “arm” on the left side so that it looks like the letter “F.” Carefully install the retainer against the inner edges of the template as shown in the figure. Keep the retainer edges straight. Press down on the retainer over its entire top surface to secure it evenly onto the inner shield.
13. Remove and discard the paper template and tape.
14. Re-install the inner shield and outer case by following steps 7 through 1 (in reverse order).
15. This concludes the PC Board Retainer Kit installation procedure. No tests or alignment procedures are required.

Figure 3. Align the Template and Install the PC Board Retainer



This Side Up