Installation Note

Agilent E8267D PSG Signal Generators
Add Option 005 (Internal Hard Drive)
Kit Part Number: E8251-60387

NOTE For the latest revision of this installation note, go to the following website:

http://www.agilent.com/find/psg

Part Number E8251-90387
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Notice

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Add Option 005 (Internal Hard Drive)
Kit Part Number: E8251-60387

Product Affected:	E8267D
Serial Numbers:	All
Options:	
To Be Performed By:	(X) Agilent Technologies Service Center (X) Personnel Qualified by Agilent Technologies (X) Customer
Estimated Installation Time:	1.0 hours
Estimated Verification Time:	0.5 hours

Introduction

This upgrade kit adds Option 005 (Internal Hard Drive) to the E8267D (Vector) PSG Signal Generators.

Installation includes the following major steps, starting on page 5:

1. Check signal generator functionality.
2. Remove the outer and inner signal generator covers.
3. Install A34 Internal Hard Drive.
4. Activate Option 005.
5. Verify proper installation of Option 005.
6. Re-assemble the signal generator.

Installation Kit Parts List

Item	Quantity	Description	Part Number
1	1	Installation Note	E8251-90387
2	1	Screw M3x0.5 8mm-LG	0515-1521
3	1	Internal Hard Drive (Option 005)	E8251-60115
4	1	Entitlement Certificate	5964-5143
5	1	Entitlement Certificate Envelope	5967-7169

Tools Required

- TORX T-10 driver
- TORX T-15 driver
- TORX T-20 driver
- 5/16” open-ended wrench
- Needle-nose pliers

Safety Considerations

WARNING **Before you disassemble the signal generator, turn the power switch off and unplug the power cord. Failure to unplug the signal generator 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.

Check Signal Generator Functionality

Use the following procedure to confirm that the signal generator powers up and the internal check identifies no errors. The internal check evaluates the operation of the signal generator and returns an error message if it detects a problem.

NOTE When the signal generator is first connected to ac line power, the error message ERROR 514, Reference Oven Cold occurs which causes both the OVEN COLD annunciator and the ERR annunciator to turn on.

After approximately five minutes, the OVEN COLD annunciator automatically clears, but the ERR annunciator remains on until all errors are cleared from the error queue.

1. Turn on the signal generator and let it warm up for at least five minutes.
2. Run the signal generator self-test by pressing **Utility** > **Instrument Info/Help Mode** > **Self Test** > **Run Complete Self Test**. Upon completion a summary of the self-test will be displayed. Use the *E8257D/67D PSG Service Guid*e to troubleshoot any failures detected by the test.

NOTE Some circuits may require up to 50 minutes to warm up before passing the self-test. If self-tests continue to fail after 50 minutes of warm up, troubleshoot the instrument.

3. Check to see if the ERR annunciator is on.
   - If the ERR annunciator is on, review the error messages in the error queue by pressing **Utility** > **Error Info**. The first page of error messages in the error queue appears in the display text area. (Refer to the signal generator error messages document for information about each error message.)

     After resolving all problems causing errors, press **Clear Error Queue(s)**.
   - If the ERR annunciator is off, the signal generator functionality check has passed.

Remove the Outer and Inner Signal Generator Covers

Remove the Outer Cover

Refer to Figure 1.

1. Disconnect the power cord.
2. Using a T-20 driver, loosen the two screws (1) and remove the strap handle (2).
3. Using a T-15 driver, remove the center screws (3) on the four rear-panel feet (4).
4. Remove the four bottom feet (5) from the cover by lifting the tab and sliding the foot toward the tab.
5. Place the signal generator on its side.
6. Tilt the signal generator forward and slide the outer cover (6) back to remove it from the frame.

Remove the Inner Top Cover

Refer to Figure 2.

1. Using a T-10 driver, remove the screws (1) from the inner-top cover (2). There eleven screws for E8267D.
2. Remove the inner-top cover.

Figure 1 Outer Cover Removal

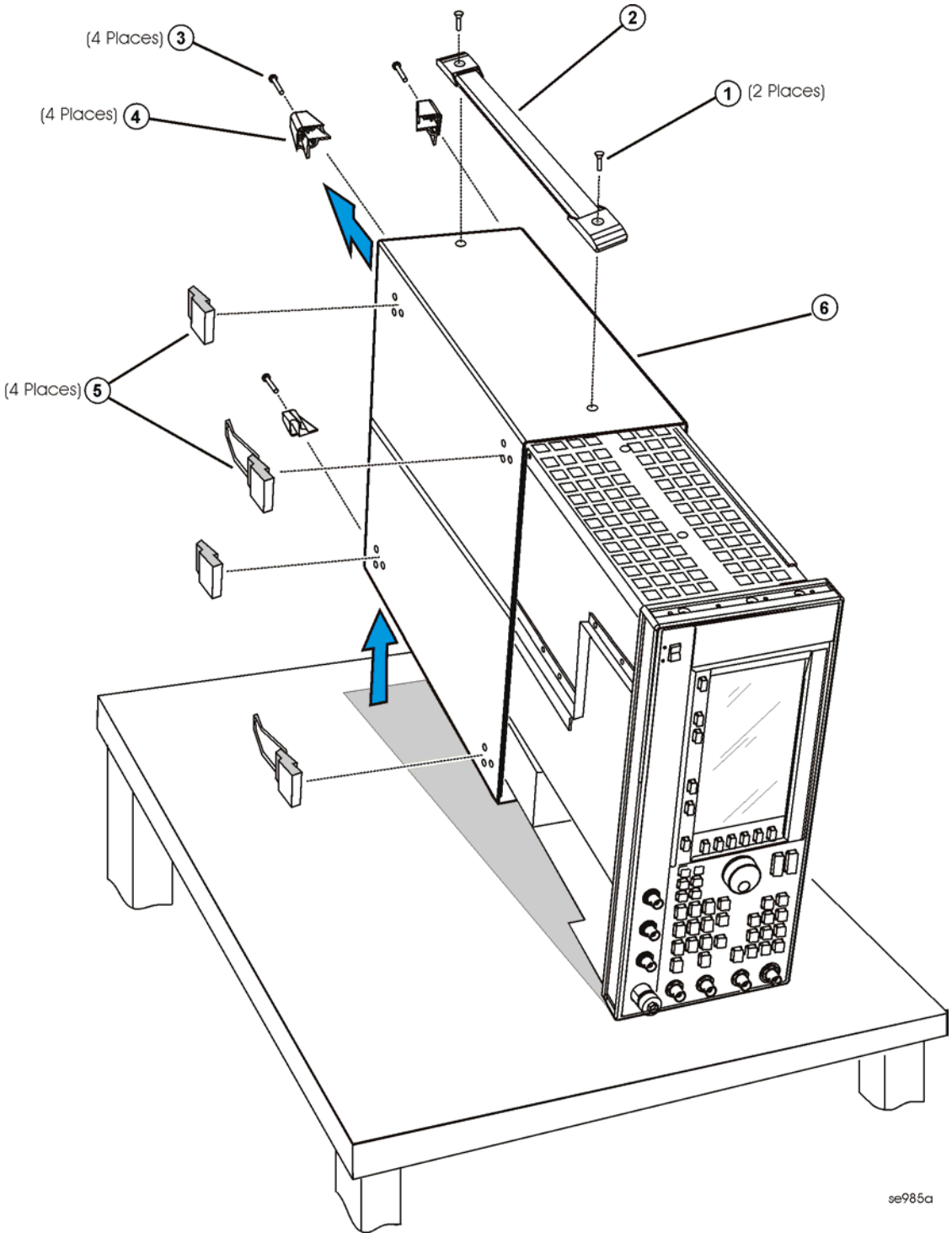
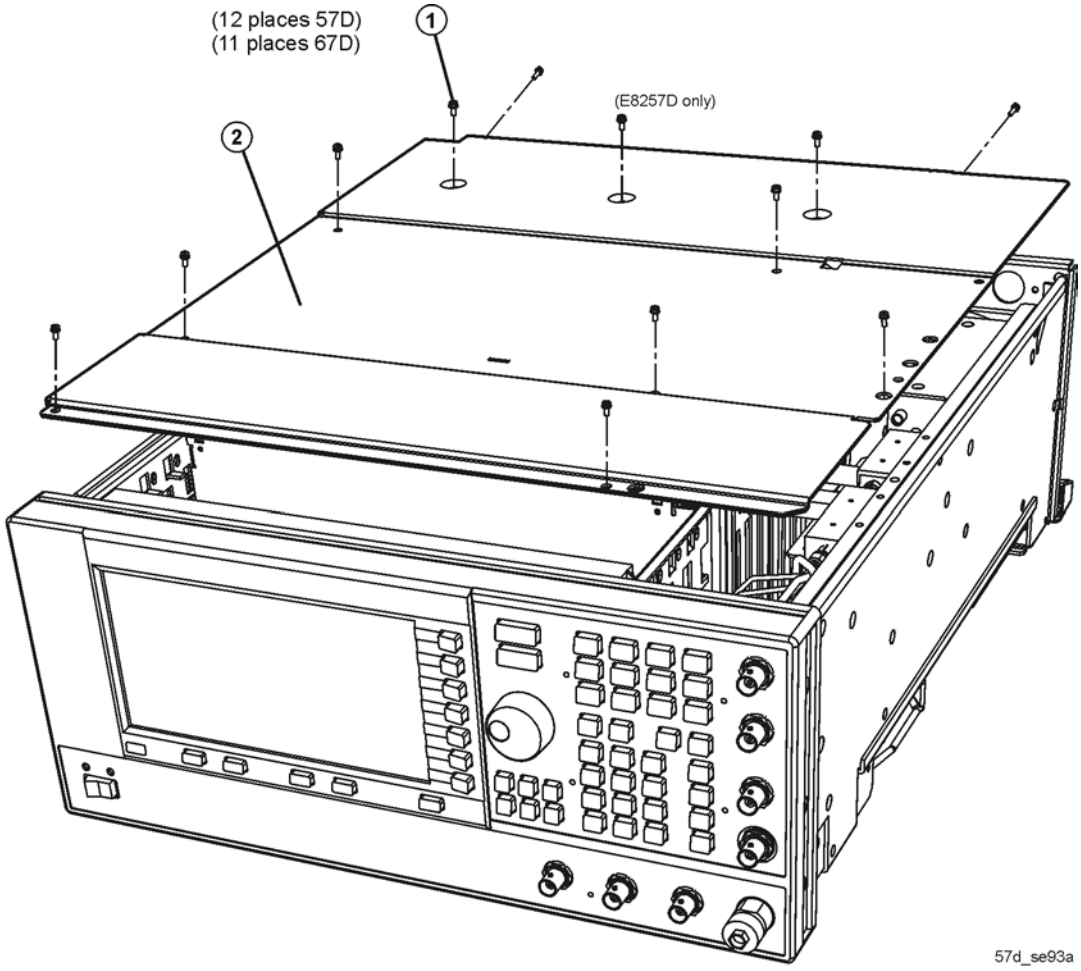


Figure 2 Inner Top Cover Removal

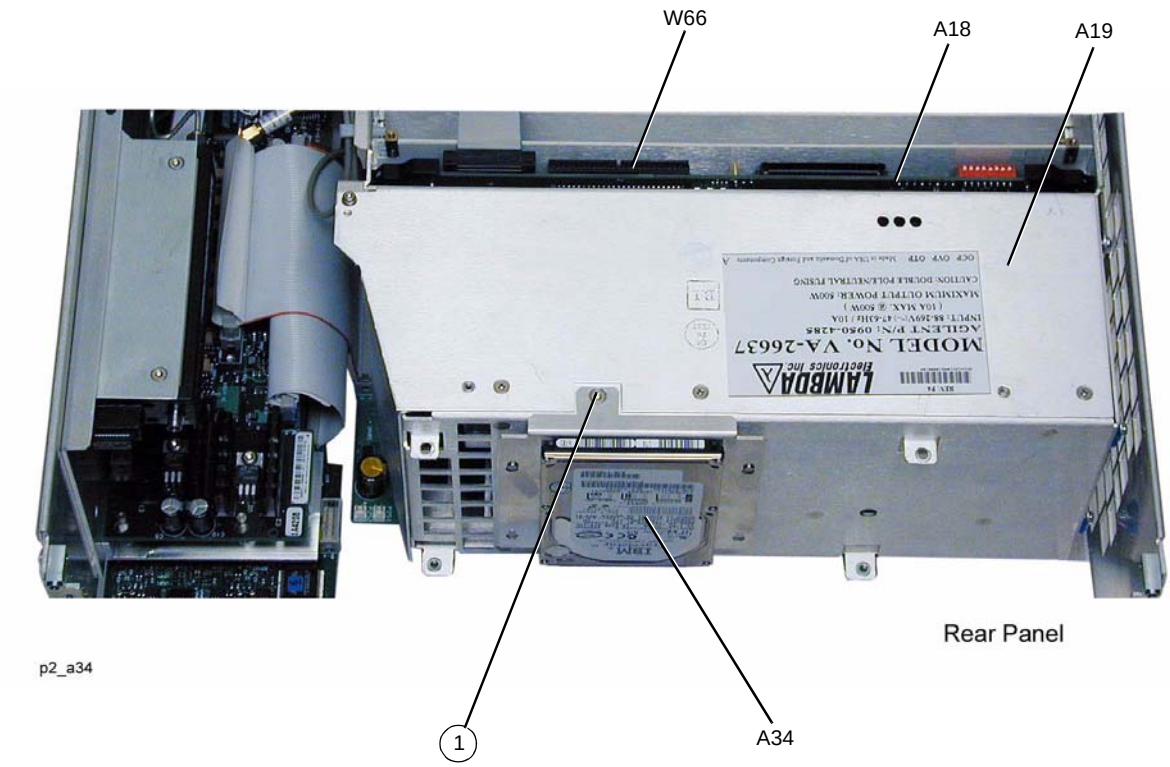


Install the A34 Internal Hard Drive

Refer to Figure 3.

1. Position the signal generator with the RF deck on top and the rear panel facing you.
2. Using the T-10 drive, install the screw (1) to attach the A34 Internal Hard Drive to the A19 Power Supply.
3. Connect the W66 ribbon cable (provided in kit with one end connected to the A34 Internal Hard Drive) to the A18 CPU P2.

Figure 3 A34 Internal Hard Drive



Activate Option 005

1. Follow the instructions on the Entitlement Certificate.

Verify Proper Installation of Option 005

1. Press: **Utility** > **Instrument Info** > **Help Info** > **Options Info**.
2. Make sure Option 005 is listed.

NOTE If you enable an option that does not have the required hardware installed, the menus for that option will be activated but the option *cannot* operate.

Re-Assemble the Signal Generator

Refer to Figure 1 and Figure 2.

1. Reinstall the inner and outer instrument covers by reversing the order for removal.
2. Torque all T-10 screws to 9 in-lbs.
3. Torque all T-15 and T-20 screws to 21 in-lbs.