AWG701AUP
AWG702AUP
Options 01, 03, and SSD
AWG70000A Series Upgrades

Instructions

Tektronix

Contacting Tektronix

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For product information, sales, service, and technical support:
- In North America, call 1-800-833-9200.
- Worldwide, visit www.tektronix.com to find contacts in your area.

Service safety summary

Only qualified personnel should perform service procedures. Read this *Service safety summary* before performing any service procedures.

Do not service alone. Do not perform internal service or adjustments of this product unless another person capable of rendering first aid and resuscitation is present.

Disconnect power. To avoid electric shock, switch off the instrument power, then disconnect the power cord from the mains power.

Use care when servicing with power on. Dangerous voltages or currents may exist in this product. Disconnect power, remove battery (if applicable), and disconnect test leads before removing protective panels, soldering, or replacing components.

To avoid electric shock, do not touch exposed connections.

Upgrade kit overview

This document provides instructions for performing hardware and/or software and option key upgrades on the following Tektronix products:

- AWG70001A Arbitrary Waveform Generators

- AWG70002A Arbitrary Waveform Generators

Upgrade kits covered by these instructions

The following table lists the available product upgrades supported by this document. Some upgrades only require an option key to enable the new features.

AWG70001A Upgrades	Description	Upgrade type
AWG701AUP 01	Increases the waveform record length from 2 GSamples to 16 GSamples	Option key only
AWG701AUP 03	Adds sequencing	Option key only
AWG701AUP SSD	Provides an additional (or replacement) preprogrammed Solid State Drive	Hardware included

AWG70002A Upgrades	Description	Upgrade type
AWG702AUP 01	Increases the waveform record length from 2 GSamples to 8 GSamples on both channels	Option key only
AWG702AUP 03	Adds sequencing	Option key only
AWG702AUP 0816	Increases the sampling rate from 8 GS/s to 16 GS/s	Option key only
AWG702AUP 0825	Increases the sampling rate from 8 GS/s to 25 GS/s	Option key only
AWG702AUP 1625	Increases the sampling rate from 16 GS/s to 25 GS/s	Option key only
AWG702AUP SSD	Provides an additional (or replacement) preprogrammed Solid State Drive	Hardware included

For a list of available options, see the Tektronix Web site (www.tektronix.com) or your Tektronix representative.

Kit parts lists

Option key only upgrades

Some upgrades only require a new option key to enable the new features or enhancements. These types of kits contains the following items:

Tektronix part number	Qty.	Description
N/A	1	LABEL, OPTION KEY INFORMATION
		Apply label to rear panel
N/A	1	LABEL, ECCN (RED)
		Only supplied with:
		■ AWG701AUP 03
		■ AWG702AUP 03
		Apply label to rear panel
075-1049-XX	1	MANUAL, KIT INSTRUCTIONS

AWG701AUP SSD and AWG702AUP SSD

This upgrade provides a preprogrammed solid state drive to use as either a secondary hard drive or as a replacement for a failed hard drive. The kit contains the following items:

Tektronix part number	Qty.	Description
211-1081-XX[1]	4	SCREW, MACHINE; M3 X 0.5 X 3.5MM, FLAT WAFER HD W/SERRATIONS STRESS RELIEVED, PHL, ZINC PLATED STEEL
335-2612-XX[1]	1	MARKER, IDENT; HD ADAPTER (SLED); SAFETY CONTROLLED
407-5641-XX[1]	1	ASSEMBLY, SLED, HARD DRIVE MOUNT (REMOVABLE)
650-5875-XX[1,2]	1	HARD DRIVE, PROGRAMMED; SOLID STATE DRIVE PROGRAMMED W/ OS & APP SW
075-1049-XX	1	MANUAL, KIT INSTRUCTIONS

[1] The hard drive and the mechanical sled components are pre-assembled.

[2] Early instruments used the hard drive part numbered 650–5585–XX. This upgrade kit provides the correct hard drive based on your instrument's serial number.

Upgrade kit installation

Refer to the one (or more) of the following installation sections pertaining to the upgrade(s) you are installing.

Minimum tool and equipment list

No special tools are required to install any of the upgrade kits covered by these installation instructions.
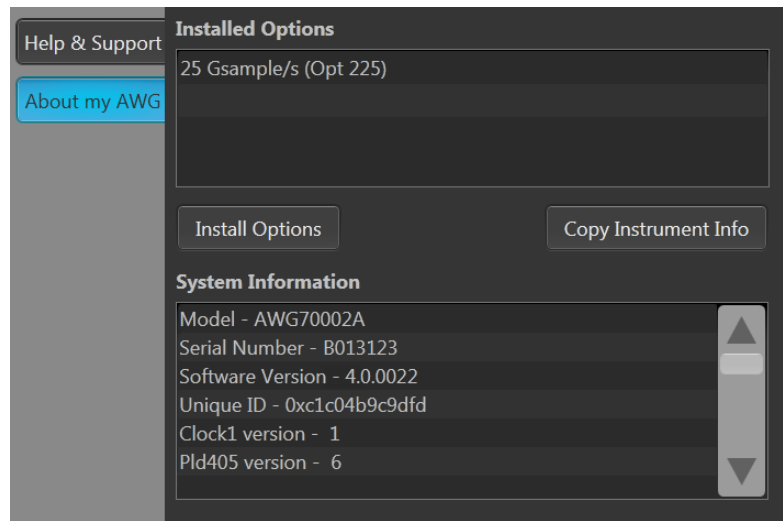
Option key only upgrades

To install these types of options, you need the key number that is provided with this kit. This unique key number is valid only for the specific model number and serial number of your instrument; it will not work on any other instrument. This single key number enables all valid options for your instrument, those that were factory installed and any others that you may have already purchased. In other words, this new key number supersedes any previous key numbers that you may already have.
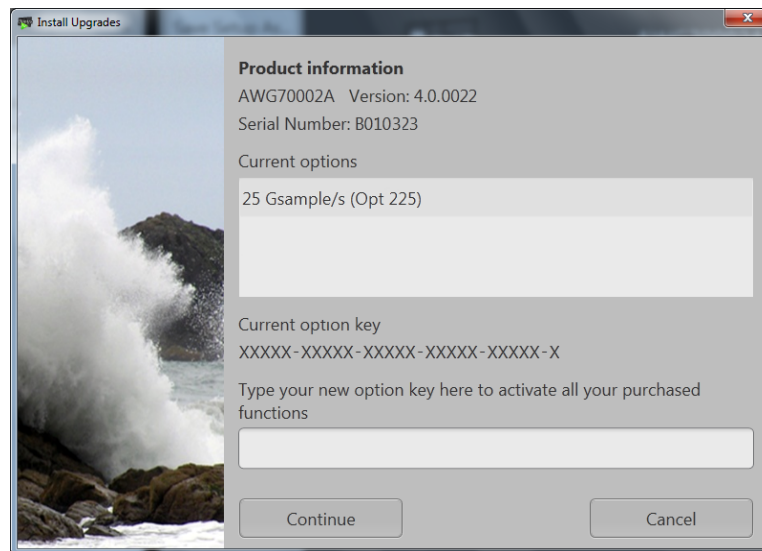
⚠ *CAUTION.* *To avoid losing your options, do not misplace the label that is included with this kit. This label contains the option installation key number and should be installed on the rear panel of the instrument for future reference. Apply the new label over the existing option key label.*

As a backup, you may want to copy the key number and save it with the other important papers for your instrument. If you ever need to re-enable the option, you will need to re-enter this key number.
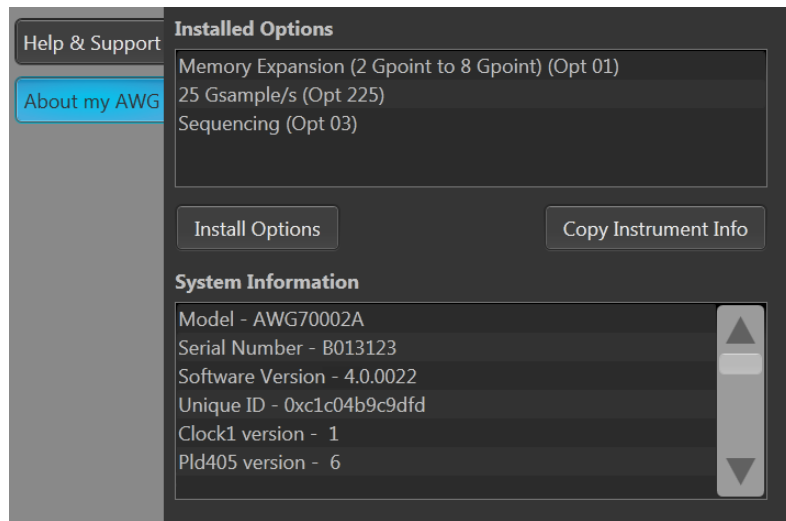
1. Power on the instrument.

2. Select **Utilities** from the workspace tabs.

3. Select **About my AWG** to display the current option information and system information.

4. Click Install Options to start the upgrade installation process.

5. Click Continue from the Install Upgrades introduction screen.

6. Enter the option key provided by Tektronix, and follow the on-screen instructions to install the option.

7. Power off the instrument, then power back on.

8. Select Utilities from the workspace tabs.

9. Select About my AWG to display the current option information and system information.

10. Verify the new option is listed.

11. Apply the new option key label over the existing key label on the rear panel of the instrument.

12. **Option 03 upgrades (adding sequencing)**: You must apply the red ECCN label to the rear panel of the instrument.

AWG701AUP SSD and AWG702AUP SSD installation

NOTE. Before installing the new hard drive, use an external backup device to back up any files on your instrument for use on the new hard drive.

Install the hard drive using the following procedure:

1. Power off the instrument.

2. Loosen the thumb screws and remove the existing hard drive.

NOTE. The hard drive and hard drive sled components are pre-assembled.

3. Install the new hard drive, and then tighten the thumb screws to secure the drive in the instrument.

4. Power on the instrument to verify operation.

Verify instrument software version

Tektronix recommends to update to the latest available application software for your instrument.

1. Select **Utilities** > **About my AWG**. Under System Information, note the Software Version number.

2. Use your Web browser to go to: www.tektronix.com/software.

3. Search for your instrument's model number and follow the link to the software.

4. If the installed software is older than that available, download the software.

5. Follow the instructions on the Web page to install the software.

NOTE. Updating the instrument software does not impact installed option keys.