

Instructions



Memory Erasure and Memory Parts List TDS200, TDS1000/2000 & TPS2000 Series Digital Storage Oscilloscopes

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Memory Erasure and Memory Parts List

The TDS200, TDS1000/2000, and TPS2000 Series instruments contain a proprietary architecture based on a Motorola 68k microprocessor and the VxWorks operating system.

Instrument code and calibration settings reside in nonvolatile FLASH memory. Instrument setups and reference waveforms are also stored internally in FLASH memory.

If you have any questions, contact the Tektronix Technical Support Center at <http://www.tektronix.com/support>.

Memory Erasure

The TPS2000 Series instruments and products using the TDS2MEM module provide a CompactFlash port. Any CompactFlash cards can be removed and stored or destroyed.

To erase confidential setup and reference waveform data from the FLASH memory on your oscilloscope, use the appropriate procedure below:

TDS200 Series

1. Press the front panel **SAVE/RECALL** button.
2. Press the top side bezel button until **Setups** is selected.
3. Press the **Recall Factory** side bezel button to recall the default setup.
4. Press the **Setup** side bezel button until **1** is selected. Press the **Save** side bezel button to overwrite setup 1 with the default setup.
5. Press the **Setup** and **Save** side bezel buttons again to overwrite the next setup with the default setup. Repeat this step until setup 1 is selected again.
6. Press the front panel **CH 1 MENU** button and press the **Coupling** side bezel button until **Ground** is selected.
7. Press the front panel **SAVE/RECALL** button.
8. Press the top side bezel button until Waveforms is selected. Press the **Source** side bezel button until **CH1** is selected.
9. Press the **Ref** side bezel button until **A** is selected. Press the **Save** side bezel button to overwrite reference waveform **A** with the null waveform.
10. Press the **Ref** and **Save** side bezel buttons again to overwrite the next reference waveform with the null waveform. Repeat this step until reference **A** is selected again.

11. Power off the oscilloscope; then power on the oscilloscope to complete the process.
- TDS1000/2000 Series**
1. Press the front panel **DEFAULT SETUP** button to recall the default setup.
 2. Press the front panel **SAVE/RECALL** button.
 3. Press the top side bezel button until **Setups** is selected.
 4. Press the **Setup** side bezel button until **1** is selected. Press the **Save** side bezel button to overwrite setup 1 with the default setup.
 5. Press the **Setup** and **Save** side bezel buttons again to overwrite the next setup with the default setup. Repeat this step until setup 1 is selected again.
 6. Press the front panel **CH 1 MENU** button and press the **Coupling** side bezel button until **Ground** is selected.
 7. Press the front panel **SAVE/RECALL** button.
 8. Press the top side bezel button until Waveforms is selected. Press the **Source** side bezel button until **CH1** is selected.
 9. Press the **Ref** side bezel button until **A** is selected. Press the **Save** side bezel button to overwrite reference waveform **A** with the null waveform.
 10. Press the **Ref** and **Save** side bezel buttons again to overwrite the next reference waveform with the null waveform. Repeat this step until reference **A** is selected again.
 11. Power off the oscilloscope; then power on the oscilloscope to complete the process.
- TPS2000 Series**
1. Press the front panel **DEFAULT SETUP** button to recall the default setup.
 2. Press the front panel **SAVE/RECALL** button.
 3. Press the **Action** side bezel button until **Save Setup** is selected. Press the **Save To** side bezel button until **Setup** is selected.
 4. Press the **Setup** side bezel button until **1** is selected. Press the **Save** side bezel button to overwrite setup 1 with the default setup.
 5. Press the **Setup** and **Save** side bezel buttons again to overwrite the next setup with the default setup. Repeat this step until setup 1 is selected again.
 6. Press the front panel **CH 1 MENU** button and press the **Coupling** side bezel button until Ground is selected.
 7. Press the front panel **SAVE/RECALL** button.

8. Press the **Action** side bezel button until **Save Waveform** is selected. Press the **Save To** side bezel button until **Ref** is selected. Press the **Source** side bezel button until **CH1** is selected.
9. Press the **To** side bezel button until **RefA** is selected. Press the **Save** side bezel button to overwrite reference waveform **RefA** with the null waveform.
10. Press the **To** and **Save** side bezel buttons again to overwrite the next reference waveform with the null waveform. Repeat this step until reference **RefA** is selected again.
11. Power off the oscilloscope; then power on the oscilloscope to complete the process.

Memory Parts Lists

The memory parts used in the TDS210, TDS220, TDS224, TDS1001, TDS1002, TDS1012, TDS2002, TDS2012, TDS2022, TDS2004, TDS2014, TDS2024, TPS2012, TPS2014, and TPS2024 oscilloscopes are shown in the following tables.

Table 1: TDS210/TDS220 Memory Parts List (board #661-4806-XX)

Part number	Reference designator	Description	Use
156-8994-00	U430	FLASH;1M X 8 OR 512K X 16	Flash memory contains instrument firmware, current setup, saved setups, saved reference waveforms, and calibration constants.
156-7533-00	U320	MEMORY; CMOS;DRAM;256K X 16	Microprocessor system memory.

Table 2: TDS224 Memory Parts List (board # 661-4514-XX)

Part number	Reference designator	Description	Use
156-8238-00	U630	FLASH;1M X 8 OR 512K X 16	Flash memory contains instrument firmware, current setup, saved setups, saved reference waveforms, and calibration constants.
156-7564-00	U420 & U520	MEMORY; CMOS;DRAM;256K X 16	Microprocessor system memory.

Table 3: TDS1001/1002/1012/2002/2012/2022 Memory Parts List (board # 661-6424-XX)

Part number	Reference designator	Description	Use
156-9265-00 or 156-9313-00	U612 or U614	FLASH;2M X 8/1M X 16	Flash memory which contains instrument firmware, current setup, saved setups, saved reference waveforms, and calibration constants.
156-8158-00	U503	SDRAM;512K X 32 X 4 BANKS	Acquisition memory which holds acquired waveforms.

Table 4: TDS2004/2014/2024 Memory Parts List (board # 661-6425-XX)

Part number	Reference designator	Description	Use
156-9313-00 or 156-9265-00	U912 or U914	FLASH;2M X 8/1M X 16	Flash memory contains instrument firmware, current setup, saved setups, saved reference waveforms, and calibration constants.
156-8158-00	U503 & U803	SDRAM;512K X 32 X 4 BANKS	Acquisition memory which holds acquired waveforms.

Table 5: TPS2012 Memory Parts List (board # 679-5735-XX)

Part number	Reference designator	Description	Use
156-9443-00	U2004	FLASH;8M X 8, 3.0V;AM29DL640G	Flash memory contains instrument firmware, current setup, saved setups, saved reference waveforms, and calibration constants.
156-8158-00	U803	SDRAM;512K X 32 X 4 BANKS	Acquisition memory which holds acquired waveforms.

Table 6: TPS2014/2024 Memory Parts List (board # 679-5741-XX)

Part number	Reference designator	Description	Use
156-9443-00	U2004	FLASH;8M X 8, 3.0V;AM29DL640G	Flash memory contains instrument firmware, current setup, saved setups, saved reference waveforms, and calibration constants.
156-8158-00	U803 & U1503	SDRAM;512K X 32 X 4 BANKS	Acquisition memory which holds acquired waveforms.