**Instructions**

Tektronix

# Memory Erasure and Memory Parts List
# THS700 & THS700A & THS700P Series
# Digital Storage Oscilloscopes

## 071-1815-00

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# Memory Erasure and Memory Parts List

The standard THS700, THS700A, and THS700P 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

To erase confidential setup and reference waveform data from the FLASH memory on your oscilloscope, use the Tek Secure function. The Tek Secure function does the following:

- Replaces all waveforms (oscilloscope and data logger) in all reference memories with zero sample values
- Replaces the current front-panel setup and all stored setups with the default factory setup values
- Calculates the checksums of all reference waveform memory and setup memory locations to verify successful completion of waveform and setup erasure
- Displays a dialog indicating whether the secure erase was successful or unsuccessful

***NOTE***. *Tek Secure does not erase or change factory calibration constants.*

To use the Tek Secure function to erase FLASH memory:

1. Push the front—panel **UTILITY** button.
2. Push the **Tek Secure Erase Memory** bottom bezel button.
3. Push the **OK Erase Setup/Data** bottom bezel button.
4. Push the **OK Overwrite Setup/Data** bottom bezel button, and wait for the completion of TekSecure.
5. Power off the oscilloscope; then power on the oscilloscope to complete the process.

## Memory Parts Lists

The memory parts used in the THS700, THS700A, and THS700P Series oscilloscopes are shown in the following tables.

**Table 1: THS710/THS720 Memory parts lists (board number 679- 3271-XX)**

| Part number | Reference designator | Description | Use |
|---|---|---|---|
| 156-6553-00 | U1 | IC, MEMORY; CMOS, FLASH;1MEG X 8, 120NS;E28F008SA, TSOP40 | Flash memory which contains instrument firmware, current setup, saved setups, saved waveforms, saved data, waveforms, and calibration constants. |
| 156-6151-01 | U9 | IC, MEMORY; CMOS, SRAM;128K X 8, 100NS, 15UA, OE;431000, SO32.525. | Acquisition memory which holds acquired waveforms. |
| 156-6846-00 | U17 | IC, MEMORY; CMOS, DRAM;256K X 16, 70NS, FAST PAGE MODE, SELF-RE-FRESH;42S4260, TSOP44 | Display system memory. |
| 156-6846-00 | U18 | IC, MEMORY; CMOS, DRAM;256K X 16, 70NS, FAST PAGE MODE, SELF-RE-FRESH;42S4260, TSOP44 | Microprocessor system memory. |

**Table 2: THS710A/THS720A/THS720P Memory parts list (board number 679-3923-XX)**

| Part number | Reference designator | Description | Use |
|---|---|---|---|
| 156-7404-01 | U1 | IC, MEMORY; CMOS, FLASH ;1MEG X 8, 5.0 VOLT-ONLY, SECTOR ERASE; AM29F080-120EC , 40PIN TSOPT&R | Flash memory which contains instrument firmware, current setup, saved setups, saved waveforms, saved data, waveforms, and calibration constants. |
| 156-6151-01 | U9 | IC, MEMORY; CMOS, SRAM;128K X 8, 100NS, 15UA, OE;431000, SO32.525. | Acquisition memory which holds acquired waveforms. |
| 156-6846-00 | U17 | IC, MEMORY; CMOS, DRAM;256K X 16, 70NS, FAST PAGE MODE, SELF-RE-FRESH;42S4260, TSOP44 | Display system memory. |
| 156-6846-00 | U18 | IC, MEMORY; CMOS, DRAM;256K X 16, 70NS, FAST PAGE MODE, SELF-RE-FRESH;42S4260, TSOP44 | Microprocessor system memory. |

**Table 3: THS730A Memory parts list (board number 679- 4010-XX)**

| Part number | Reference designator | Description | Use |
|---|---|---|---|
| 156-7404-01 | U1 | IC, MEMORY; CMOS, FLASH ;1MEG X 8, 5.0 VOLT-ONLY, SECTOR ERASE; AM29F080-120EC , 40PIN TSOPT&R | Flash memory which contains instrument firmware, current setup, saved setups, saved waveforms, saved data, waveforms, and calibration constants. |
| 156-6151-01 | U9 | IC, MEMORY; CMOS, SRAM;128K X 8, 100NS, 15UA, OE;431000, SO32.525. | Acquisition memory which holds acquired waveforms. |
| 156-6846-00 | U17 | IC, MEMORY; CMOS, DRAM;256K X 16, 70NS, FAST PAGE MODE, SELF-RE-FRESH;42S4260, TSOP44 | Display system memory. |
| 156-6846-00 | U18 | IC, MEMORY; CMOS, DRAM;256K X 16, 70NS, FAST PAGE MODE, SELF-RE-FRESH;42S4260, TSOP44 | Microprocessor system memory. |