

# Instructions



**040-1718-01**  
**TG700 AGL7 Upgrade**  
**720p-50 Support**

**075-0907-01**

**Warning**

The servicing instructions are for use by qualified personnel only. To avoid personal injury, do not perform any servicing unless you are qualified to do so. Refer to all safety summaries prior to performing service.

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## **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](http://www.tektronix.com) to find contacts in your area.

## Kit Description

This kit replaces two IC's (U502 and U602) on the AGL7 board, to enable supporting 720p-50 signals.

This document supports Tektronix modification: ECR30665

## Products

AGL7            J320xxx and above  
                  B010100 - B011199

## Minimum Tool and Equipment List

Required tools and equipment	Part number
Phillips screwdriver, #1 tip	Standard tool
Soldering Iron	Standard surface mount tool
Hot air tool	Standard surface mount tool
Solder removal tool	Standard surface mount tool
Solder paste	Pb/Sn No-Clean

## Kit Parts List

Circuit/figure number	Quantity	Part number	Description
U502	1 EA.	163-1624-01	IC, MEMORY; SERIAL CONFIG DEVICE; PROGRAMMED, USED WITH CYCLONE FPGA, 4MBIT, 3.3V; EPCS4, SOIC8.150
U602	1 EA.	163-1625-01	IC, MEMORY; SERIAL CONFIG DEVICE; PROGRAMMED, USED WITH CYCLONE FPGA, 4MBIT, 3.3V; EPCS4, SOIC8.150
-----	1 EA.	650-4705-xx	COMPONENT KIT; MANUAL, W/CD-R, ENGLISH AND JAPANESE; TG700
-----	1 EA.	075-0907-01	KIT INSTRUCTIONS (this document)



# Installation Instructions

These instructions are for personnel who are familiar with servicing the product and working with surface mounted components. If you need further details for disassembling or reassembling the product, refer to the appropriate product manual. Contact your nearest Tektronix, Inc., Service Center or Tektronix Factory Service for installation assistance.



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**CAUTION.** *To prevent static discharge damage, service the product only in a static-free environment. Observe standard handling precautions for static-sensitive devices while installing this kit. Always wear a grounded wrist strap, grounded foot strap, and static resistant apparel while installing this kit.*

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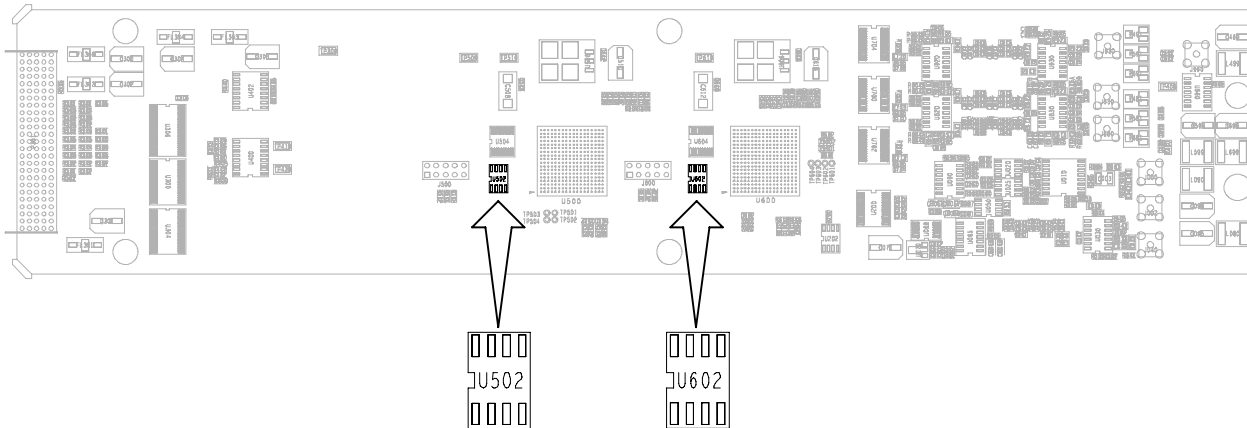
## Remove

Remove the AGL7 module from the TG700 by following these steps:

1. Unplug the power cord from the AC source.
2. Attach terminators or BNC cables to the BNC connectors on the AGL7 rear panel, to aid removal.
3. Use a screwdriver with a #1 Phillips tip to loosen the two screws securing the AGL7 module to the mainframe.
4. Pull the module slowly straight back from the mainframe, until it is clear of the instrument, using the terminators or cables as handles.
5. Lay the AGL7 module on a static free work surface.

## Replace U502 and U602

Using standard surface mount techniques and tools, replace U502 with the 163-1624-xx IC and replace U602 with the 163-1625-xx IC, both provided in this kit. See Figure 1 for the IC locations.



**Figure 1: Location of U502 and U602 on the AGL7 circuit board.**

## Reassemble

Reinstall the AGL7 module in the TG700 as follows:

1. Insert the AGL7 module into slot 1 of the TG700, paying attention to the module orientation.
2. Slide the module in until the connector on the AGL7 module is firmly engaged with the main board of the mainframe.
3. Tighten the two screws to secure the module to the mainframe.

## Update

After replacing U502 and U602 you must update the AGL7. Follow the update instructions found in the *Module Installation Guide* (070-A824-xx) provided with the CD-R in this kit.

■ End of document ■