TEK PRODUCT MODIFICATION

Part No. 050-2230-01 Product Group 42

M75883



11A33 All Serial Numbers

This kit contains parts and instructions to replace one (1) attenuator module. Each attenuator assembly requires the installation of (4) Metal-on-elastomer (MOE strips). New replacement MOE strips are recommended anytime the attenuators are removed from the circuit board.



Kit Parts List:

Ckt. Number	Quantity	Part Number	Description
	1 ea 4 ea	119-2447-02 131-3383-01	Attenuator: Activity trimmed novar Conn assy: Elastomeric, MOE strip

Minimum Tool Requirements:

Tool	Part Number	
Screwdriver, magnetic, holder for Torx head tips	Tektronix, pn 003-0264-00	
Torx drive tip, T-6	General Tool, pn 41211-3	
Torx drive tip, T-8	General Tool, pn 37153-3	
Torx drive tip, T-9	General Tool, pn 37155-8	
Torx drive tip, T-10	General Tool, pn 37157-4	
Torx drive tip, T-15	General Tool, pn 37159-0	

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Instructions

WARNING

Dangerous shock hazards may be exposed when the instrument covers are removed. Before proceeding, ensure the mainframe power switch is in the off position. Then, remove the plug-in from the instrument. Only qualified service personnel should attempt to install this kit.

CAUTION

Many components within this plug-in are extremely susceptible to static-discharge damage. Service the plug-in only in a static-damage. Observe standard handling precautions for static-sensitive devices while installing this kit. Always wear a grounded wrist and foot strap while installing this kit.

NOTE

These instructions assume a certain familiarity with the instrument. If further details are required for disassembly or assembly, refer to the maintenance section of the 11A33 Service Manual.

11A33 Plug-in

Step 1: Remove the left and right electrical shields. Be careful not to bend or damage shields during removal.
Step 2: Unlock the return spring from the latch, and set it aside.
Step 3: Remove the four (4) Torx drive screws T-9 that secures the subpanel to the top and bottom frames.
Step 4: Loosen the two (2) Torx drive screws T-10 that secures the Main circuit board to the top and bottom frames located towards the front of the instrument.
Step 5: Pull the latch out to the extended position.

Attenuator Replacement

Step 6: Separate the front panel from subpanel. Use the two (2) large holes located in the subpanel casting to push the front panel out away from the instrument. Be careful not to bend or damage the front panel during this separation.				
Step 7: Remove the four (4) Torx drive screws that secures the heatsink brackets to the top and bottom frames using a T-9 Torx screwdriver. Remove the four (4) Torx screws that secure the heatsink brackets to the attenuator, using a T-10 Torx screwdriver, then remove the heatsink brackets from the instrument.				
Step 8: Remove the four (4) Torx screws that secure the attenuator to the Main circuit board using a T-9 Torx screwdriver. The screws are located on the front (component) side of the Main circuit board.				
Step 9: Disconnect the coaxial cables that connect the attenuator to the rear (solder) side of the Main circuit board. Disconnect the coaxial cables at the circuit board.				
Step 10: Disconnect J1110 and J1120 flex cables located on the component side of the Main circuit board.				
Step 11: Set the instrument on its side with the attenuator body facing up.				
Step 12: Remove the six (6) Torx drive screws T-6 that secure the attenuator to the front subpanel. Use a T-6 Torx drive tip only, any other size may damage the screw drive system.				
Step 13: Lift the rear of the attenuator up approximately 1/4-inch from the circuit board, then carefully withdraw the attenuator from the instrument. The plastic bezels may fall out from the front panel while removing the attenuator/bnc's. Set the bezels aside for later reassembly.				
Step 14: Remove the old metal-on-elastomer (MOE) strips from the MOE holders.				
Step 15: Install the four (4) new MOE strips that are provided in this kit, placing the strips in the holders. The exposed elastomer side of the MOE strips face towards the center of the holders, refer to Figure 1.				
NOTE				
Before installing the new attenuator's bnc's into the front panel, make sure that the plastic bezels are in the proper position.				
Step 16: Install the new attenuator that is provided in this kit. Insert the bnc's through the holes in the front subpanel, then let the attenuator rest on the Main circuit board. Feed the attenuator flex cables between the Front Panel circuit board A2 and Main circuit board A1, placing it on the component side of the Main circuit board.				

Step. 17: While holding the attenuator install the four (4) Torx drive screws that (component) side of the Main circuit be enough to hold the attenuator in place.	at secure the attenuator to the front pard. Do not tighten, fasten just				
Step 18: Replace the six (6) Torx drive attenuator to the front subpanel.	screws T-6, that secures the				
Step 19: While the latch is in the extended position, place the front pane so that the notch in the bottom fits over the latch rod. Carefully insert the four front panel tabs into the slots in the front subpanel.					
NOTE					
It may be necessary to pull the top an the subpanel tabs to allow the front-pa casting and the frame.	· · · · · · · · · · · · · · · · · · ·				
Step 20: Gently snap the edges of the the input connectors and the outer edges.	·				
Step 21: Tighten the two (2) Torx drive circuit board to the top and bottom frame					
Step 22: Replace the four (4) Torx drives subpanel to the top and bottom frames panel firmly in place while installing the	s removed in step 3. Hold the front				
Step 23: Install the latch spring remove that its loop fits over the frame hook contains the step in t					
Step 24: Tighten the two (2) Torx drive	screws T-9 installed in step 17.				
Step 25: Connect flex cables J1110 a	nd J1120 removed in step 10.				
Step 26: Connect the coaxial cables	disconnected in step 9.				
Step 27: Replace the heatsink bracker removed in step 7.	ts using the Torx drive screws				
Step 28: Refer to the calibration secti ments) make necessary checks and a	•				
Step 29: Replace the left and right ele	ectrical shields removed in step 1.				

Attenuator Replacement

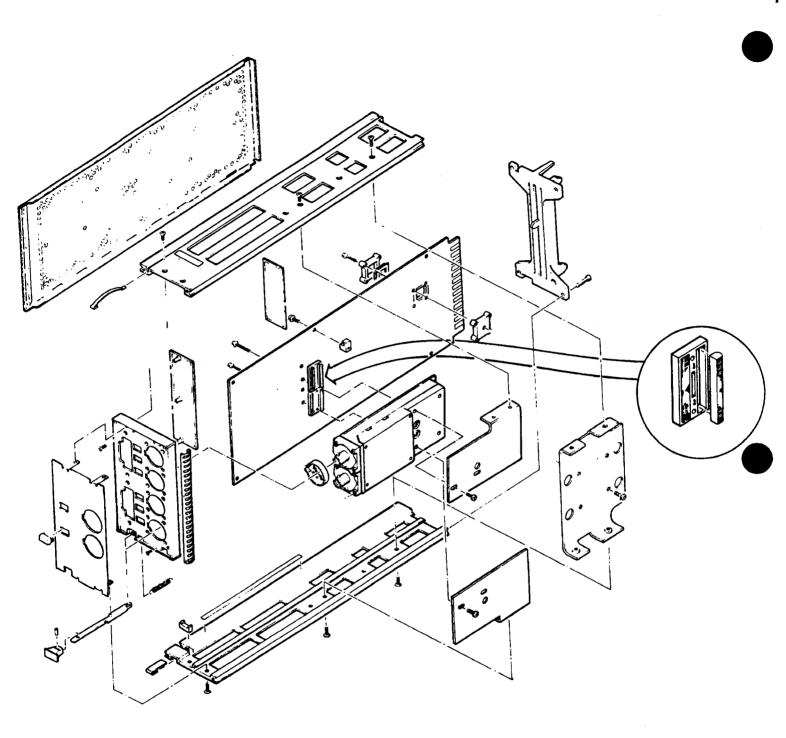


Figure 1: 11A32/11A34 Exploded View.