

Instructions



120-1102-01

Current Transformer

For A6303 & A6303XL Current Probes

062-6508-01

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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Printed in the U.S.A.

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120-1102-01 Current Transformer

This section explains how to install the 120-1102-01 current transformer in the A6303 & A6303XL current probes. For general safety information and information about verifying, adjusting, and maintaining the A6303 & A6303XL current probes, refer to the *AM 503B & AM 5030 Instruction Manual* (070-8766-XX) and the *A6303 & A6303XL Instructions* (070-3906-XX).

Replacement Instructions

The following procedures explain how to disassemble the probe body and replace the current transformer.



WARNING. *Probe disassembly should only be performed by qualified service personnel.*

1. Unlock the probe slide.
2. Place the left side of the probe on a flat surface (with the screw heads facing up).
3. Using a $\frac{3}{32}$ inch Allen wrench, remove the eight retaining screws from the case.



WARNING. *There is a spring in the squeeze handle that can pop out and cause personal injury unless care is exercised when disassembling the probe.*

4. While holding the squeeze handle and slide, lift the right half of the probe body off.
5. Remove the slide.
6. To remove the current transformer, lift the assembly out of the probe as shown in Figure 1 and unplug it from the circuit board.

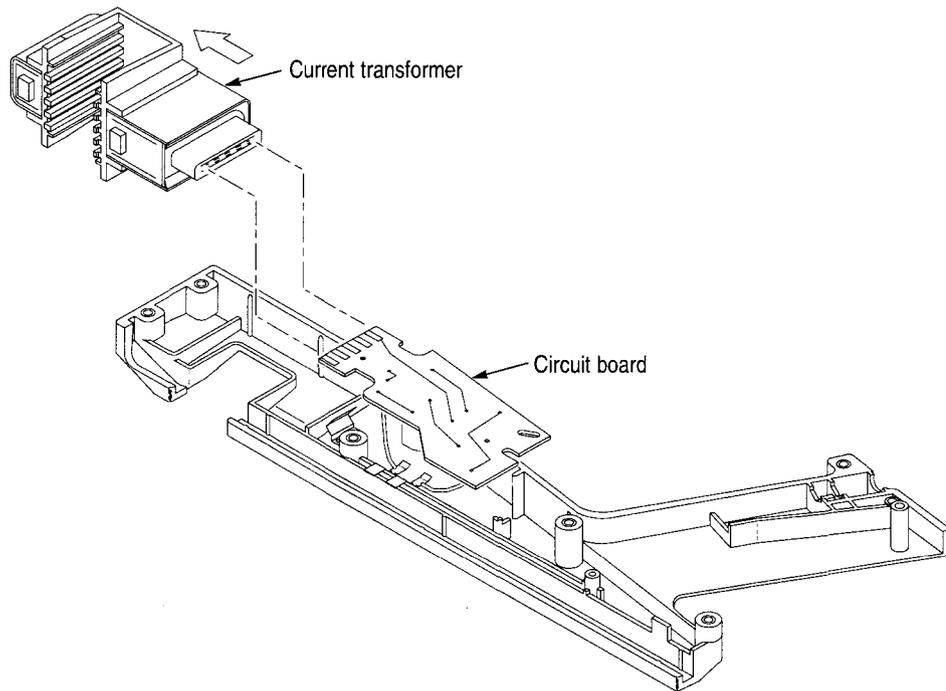


Figure 1: Removing the current transformer

7. Configure the circuit board according to the model of the probe as follows .
 - a. For the A6303 probe, replace R46 with the 15 k Ω resistor (322-3306-00). Remove any resistor at location R43. See Figure 2.
 - b. For the A6303XL you do not need to modify the circuit board. You may discard the 15 k Ω resistor.

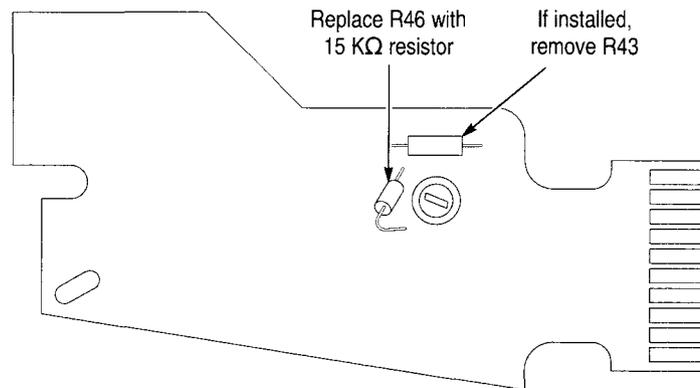


Figure 2: Configuring the circuit board (A6303 only)

8. Plug the new current transformer into the circuit board.
9. Reassemble the probe. Squeeze the handle slightly to align the index mark on the gear teeth with the first notch on the slide rack. See Figure 3.

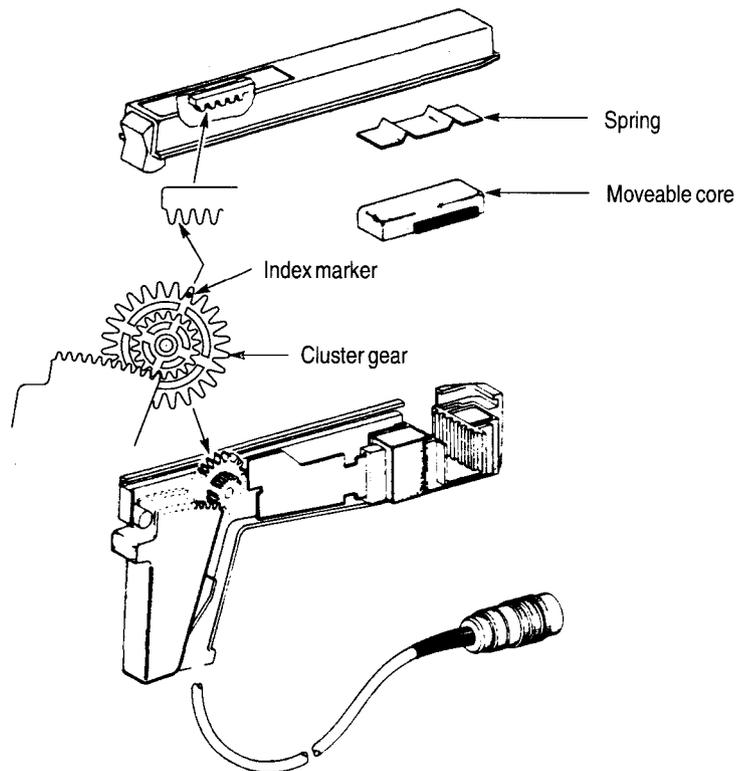


Figure 3: Probe cluster gear and transformer assembly

120-1102-01 Current Transformer

Replaceable Parts

Replaceable parts may be obtained through your local Tektronix field office or representative.

Replaceable parts list

Fig. & index number	Tektronix part number	Serial no. effective	Serial no. discont'd	Qty	Name & description	Mfr. code	Mfr. part number
	120-1102-01			1	TRANSFORMER:ASSY, TOP, BOTTOM & 322-3306-00	80009	120-1102-01
	322-3306-00			1	RES, FXD: METAL FILM, 15K OHM, 1%, 0.2W, TC=100 PPM, AXIAL, T&R, SMALL BODY	57668	CRB20T68EFX1502
	062-6508-01			1	DATA SHEET: 90 CURRENT PROBE, A6303/A6303XL, DP	80009	062-6508-01

Manufacturers cross index

Mfr. code	Manufacturer	Address	City, state, zip code
57668	ROHM CORPORATION	15375 BARRANCA PARKWAY SUITE B207	IRVINE, CA 92718
80009	TEKTRONIX INC	14150 SW KARL BRAUN DR PO BOX 500	BEAVERTON, OR 97077-0001