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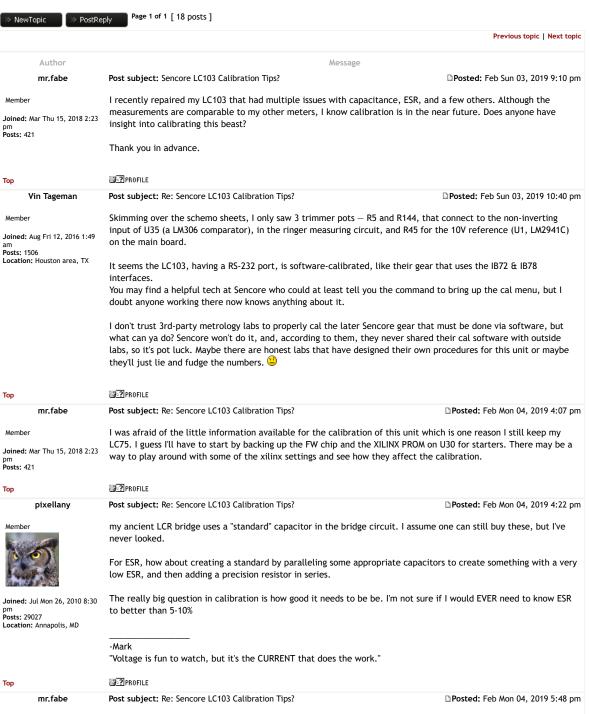
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## Sencore LC103 Calibration Tips?



The accuracy levels for me should just be close enough for me to trust it. I just want to know if the caps are close

to being out of spec to conduct further testing. Before repairs, my unit was reading 99uf for everything and ESR





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tests would all fail.

Joined: Mar Thu 15, 2018 2:23

Posts: 421

I agree with you on all counts...

I always miss my old IT-28.. simple bridge design.. easy to repair and calibrate. It was good enough if used with the can method to determine if caps were faulty.

3.2 PROFILE

wazz

Post subject: Re: Sencore LC103 Calibration Tips?

□ Posted: Feb Mon 04, 2019 7:01 pm



Sencores used to come with a little plastic box with individually calibrated standards to check your unit. They were not precision parts, they just measured the values of the components in the box with lab standard testers and wrote in the values you should see.

Reddy Kilowatt says; You smell smoke? Sorry about that!

Joined: Jun Wed 08, 2011 2:33 Posts: 10849 Location: Ohio 45177

PROFILE

Post subject: Re: Sencore LC103 Calibration Tips?

□ Posted: Feb Mon 04, 2019 10:22 pm

Тор

Joined: Mar Thu 15, 2018 2:23 Posts: 421

pixellany

mr.fabe

## wazz wrote:

Sencores used to come with a little plastic box with individually calibrated standards to check your unit. They were not precision parts, they just measured the values of the components in the box with lab standard testers and wrote in the values you should see.

I have that little plastic box.. Sencore FC221 Field Calibrator. Sencore techs would put in the components, "calibrate" the readings, and charge you a leg for it. The design is so simple to make and if anyone is interested in building one, start a new thread and I'll pass on the information for it along with pictures.



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3.2 PROFILE

Post subject: Re: Sencore LC103 Calibration Tips?

□ Posted: Feb Tue 05, 2019 2:02 am

Why do I think you already know more that most of us about calibrating that unit?? $\dots$ 

"Voltage is fun to watch, but it's the CURRENT that does the work."

pm Posts: 29027

Location: Annapolis, MD

Joined: Jul Mon 26, 2010 8:30

Top

PROFILE

Post subject: Re: Sencore LC103 Calibration Tips? mr.fabe

□Posted: Feb Tue 05, 2019 3:10 am

Joined: Mar Thu 15, 2018 2:23 Posts: 421

pixellany wrote:

Why do I think you already know more that most of us about calibrating that unit??......

I might know a little more or less about this unit because I went through the LC103 schematics in detail while working on the repairs of this unit but I know that there are many who have more experience with this model. I've owned and calibrated a few of the LC units so I've learned what to expect. The LC103 is a different beast that I have zero information on other than schemos and op manual. I wouldn't be in this mess if I didn't listen to all the cap experts on this forum who steered me into the Sencore product line...



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PROFILE

Vin Tageman

Post subject: Re: Sencore LC103 Calibration Tips?

□ Posted: Feb Tue 05, 2019 3:30 am

Top

Joined: Aug Fri 12, 2016 1:49 Posts: 1506 Location: Houston area, TX

I speculated above that proprietary software may be required because Sencore enjoys making things difficult, and some of their gear that I do own is like that, so it wouldn't surprise me if said software (and specific hardware) is

But, just because that RS-232 interface is there doesn't necessarily mean it MUST be used for calibration.

I don't have an LC103 to experiment with, wish I did, but it's entirely possible that calibration control is accessible via the front panel, if you can find the correct sequence of button presses to get into that menu.

A lot of digital equipment is cal'd this way. Heck, even TV's and monitors have "secret" factory menus that the owner can royally screw up settings with.

If someone at Sencore can't or won't tell you how to get in, then trial and error might yield success.

I've found that a common route to the verboten menu is to hold down a certain button (or two or three) with the unit off, and keep holding when the power is switched on. Sometimes, the menu will popup after 3-5 seconds or so.



This can be risky, though, because it can cause a system RESET to defaults in some products, and still may not take you to the cal menu, so you could end up with worse calibration than before you attempted to gain access. Fair warning.

Anyway, once in the menu, it's just a matter of finding which buttons are used to navigate and then which ones are used to change values.

That's a good idea about using the front panel to access a special menu... where's Ctrl-Alt-Del when you need it?

Last edited by Vin Tageman on Feb Tue 05, 2019 3:41 am, edited 1 time in total.

PROFILE

mr.fabe Post subject: Re: Sencore LC103 Calibration Tips? □ Posted: Feb Tue 05, 2019 3:37 am

Joined: Mar Thu 15, 2018 2:23

pm Posts: 421

Member

PROFILE Тор

Vin Tageman Post subject: Re: Sencore LC103 Calibration Tips? □ Posted: Feb Tue 05, 2019 3:43 am

oops.. I apparently was still editing when you replied.

Anyway, good luck. I hope you figure it out.

Post subject: Re: Sencore LC103 Calibration Tips?

Post subject: Re: Sencore LC103 Calibration Tips?

Joined: Aug Fri 12, 2016 1:49

mr.fabe

Posts: 1506 Location: Houston area, TX

PROFILE Тор

Worst case scenario would be to send it to a callab that can perform the calibration to fix what I broke. Member

Joined: Mar Thu 15, 2018 2:23

pm Posts: 421

I've seen the LC103 ROM's available on the net so there are folks that may know what to do since they are smart enough to backup their firmware.

Thanks.. Looks like I'll fix it when it's broken... not break it and pay to fix it.

PROFILE

I send my LC-103 to sencore a couple of years ago and they calibrated it with NIST traceable standards for a

reasonable fee. Try calling Sencore service: Maggie Sturzenbecher

Joined: Mar Sat 03, 2007 12:53

Member

am Posts: 816

Alan S

Service Administrative Assistant

3200 Sencore Drive

Sioux Falls, SD 57107

MAIN# 605-978-4600 EXT. 4727

DIRECT# 605-978-4727

FAX# 605-339-7032

www.sencore.com

PROFILE

Vin Tageman Post subject: Re: Sencore LC103 Calibration Tips? □ Posted: Feb Tue 05, 2019 6:14 pm

Joined: Aug Fri 12, 2016 1:49

Posts: 1506 Location: Houston area, TX Alan S wrote:

I send my LC-103 to sencore a couple of years ago and they calibrated it with NIST traceable standards for a reasonable fee.

I don't own an LC103, but I was curious after you posted that, so I emailed them this morning about support (including spare parts and calibration) for it and the LC102.

Ruth told me they no longer service either of these models, and she pointed me to Choice Electronics.

I've made my feelings about Lance known on ARF, so I won't go into that again, but suffice it to say I wouldn't send my gear to him. GOOD LUCK to anyone who does.

PROFILE

Post subject: Re: Sencore LC103 Calibration Tips? □ Posted: Feb Wed 06, 2019 8:13 am mr.fabe

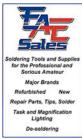
Member

Joined: Mar Thu 15, 2018 2:23 pm Posts: 421

Alan S wrote:

I send my LC-103 to sencore a couple of years ago and they calibrated it with NIST traceable standards for a reasonable fee. Try calling Sencore service:

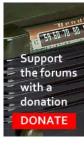






□ Posted: Feb Tue 05, 2019 4:17 am

Posted: Feb Tue 05, 2019 3:56 pm



Antique Radio Forums • View topic - Sencore LC103 Calibration Tips? Maggie Sturzenbecher http://www.sencore.com I appreciate the info you passed along. I also contacted Sencore months ago to see if they stocked any parts or if any servicing was available. I received the same answer as Vin. Contact Lance at Choice Electronics for parts and servicing. In the meantime, I did a comparison with a few of my measuring tools and found the LC103 is reasonably close enough to keep me from have to use several instruments to read values. PROFILE Тор Post subject: Re: Sencore LC103 Calibration Tips? □ Posted: Feb Wed 06, 2019 4:02 pm wazz My friend traded me the 102 for a LC 53? but he had given me both units anyway. I gave him the box of Sencore standards back with the other tester as I recall. So I have two cap standards is all. A Genrad standard cap in a black box with banana posts that I payed 5 bucks for, and a 100 pF dipped silver mica that I hand selected from a lot with a lab grade tester, years ago. It might be a good idea to have it calibrated again with the matching test leads for those small cap values, but I sorta doubt that it is super critical for stuff like electrolytics. I have no inductance standard at all at this point. Joined: Jun Wed 08, 2011 2:33 Reddy Kilowatt says; You smell smoke? Sorry about that! am Posts: 10849 Location: Ohio 45177 PROFILE Top mr.fabe Post subject: Re: Sencore LC103 Calibration Tips? □ Posted: Feb Sun 10, 2019 11:32 am Member wazz wrote: Joined: Mar Thu 15, 2018 2:23 My friend traded me the 102 for a LC 53? but he had given me both units anyway. I gave him the box of Sencore pm Posts: 421 standards back with the other tester as I recall. So I have two cap standards is all. A Genrad standard cap in a black box with banana posts that I payed 5 bucks for, and a 100 pF dipped silver mica that I hand selected from a lot with a lab grade tester, years ago. It might be a good idea to have it calibrated again with the matching test leads for those small cap values, but I sorta doubt that it is super critical for stuff like electrolytics. I have no inductance standard at all at this point. Getting reasonably close in accuracy is sufficient for me for my purposes. I just want to feel comfortable with the measurements taken and not second guess the results. Case in point, I recently had to send out one of my meters for repair and did not trust the readings I would get from another meter that I have. Although the backup meter was relatively new and shiny, I just didn't feel comfortable and kept repeating the measurements to be sure. I hate that... PROFILE Тор Page 1 of 1 [ 18 posts ] NewTopic >> PostReply Antique Radio Forums Index » Category » Test Equipment and Tools Discussions All times are UTC [ DST ] Who is online Users browsing this forum: jtiner, richfair, stevebyan and 10 guests Search for: Go Test Equipment and Tools Discussions **∨** Go Jump to:

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