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Eico 950B - precision caps?

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ibscribe topic Bookmark to	pic Print view E-mail friend	Previous topic First unread post Next top
Author	Message	
Roy J. Tellason	Post subject: Eico 950B - precision caps?	Posted: 22 Sep 2015 16:
Member oined: 07 Mar 2014 14:26 osts: 238 ocation: Palmyra / Doylesburg A	I have a recently-acquired Eico 950B that I'm preparing to re-cap, and I'm wondering abo preparing an order for Mouser for some other stuff (that thermistor for the Predicta I me so Mouser part numbers would be ideal, if you got 'em. I haven't looked to see how those things are marked yet. But figured maybe some of you	ention in another thread for example) and
		E HEPOF
ор	3-2 PROFILE 3- PM - EMAIL	⊟> ouor
Alan Douglas Aember	Post subject: Re: Eico 950B - precision caps? I remember this was discussed in some detail six months or a year ago. You might try a s	earch and see if you can find it, though
Alan Douglas Wember oined: 31 Dec 1969 17:00 osts: 30698 ocation: Pocasset, Cape Cod, A	Post subject: Re: Eico 950B - precision caps?	e looking for a needle in a haystack, excep
Member pined: 31 Dec 1969 17:00 osts: 30698 ocation: Pocasset, Cape Cod, A	Post subject: Re: Eico 950B - precision caps? I remember this was discussed in some detail six months or a year ago. You might try a si there have been lots of threads on the 950B that wouldn't be relevant. It's somewhat like I guarantee there is actually a needle there.	search and see if you can find it, though e looking for a needle in a haystack, excep BMREPOR
Wember oined: 31 Dec 1969 17:00 osts: 30698 ocation: Pocasset, Cape Cod,	Post subject: Re: Eico 950B - precision caps? I remember this was discussed in some detail six months or a year ago. You might try a si there have been lots of threads on the 950B that wouldn't be relevant. It's somewhat like	earch and see if you can find it, though e looking for a needle in a haystack, excep
Aember bined: 31 Dec 1969 17:00 bists: 30698 ccation: Pocasset, Cape Cod, A Dim Mueller Aember	Post subject: Re: Eico 950B - precision caps? I remember this was discussed in some detail six months or a year ago. You might try a sight there have been lots of threads on the 950B that wouldn't be relevant. It's somewhat like I guarantee there is actually a needle there.	search and see if you can find it, though e looking for a needle in a haystack, excep Posted: 22 Sep 2015 17: nake them "precision". For mine, I tested a d also pick a capacitor that tested low and
Member oined: 31 Dec 1969 17:00 osts: 30698 ocation: Pocasset, Cape Cod, A	Post subject: Re: Eico 950B - precision caps? I remember this was discussed in some detail six months or a year ago. You might try a signature there have been lots of threads on the 950B that wouldn't be relevant. It's somewhat like I guarantee there is actually a needle there. Image: Im	search and see if you can find it, though e looking for a needle in a haystack, excep B REPOF Posted: 22 Sep 2015 17: nake them "precision". For mine, I tested a d also pick a capacitor that tested low and

Гор	22PROFILE 22 PM = EMAIL	⊟ ≯quote
Leigh	Post subject: Re: Eico 950B - precision caps?	Posted: 22 Sep 2015 18:0
Member	There are three "precision" caps in the 950B with values of 2mfd, 0.02mfd, and 0.0002mfd (200pfd).	
	Back when this was new they matched the various caps as close as they could.	
	They're only "precision" in the sense that they're matched in their significant digits. For example, they may all be multiples of 2.00 or 1.98 or 2.01 or some such.	
Joined: 31 Dec 1969 17:00 Posts: 34387 Location: Maryland 20709, USA	The actual value is not significant. The goal is to have the same error in the same direction for all three. So they can be +3% or -1.5% or whatever, as long as that percentage is the same for all three.	
	If the percentage error was the same for all three, all the ranges could be brought to 0 error with one adju	istment.
	If I were doing one now, I would order 1% or tighter capacitors.	
	- Leigh	
	73 de W3NLB http://www.AtwaterKent.info Click "Grebe Stuff" for Synchrophase info	
Тор	22PROFILE 2020 PM 4 EMAIL	⊟ ≯0U0TE
easyrider8	Post subject: Re: Eico 950B - precision caps?	Posted: 22 Sep 2015 20:2
Member Joined: 31 Dec 1969 17:00	Leigh wrote:	
Posts: 12549 Location: Mpls, Minnesota	The actual value is not significant. The goal is to have the same error in the same direction for all three. So they can be $+3\%$ or -1.5% or whatever, as long as that percentage is the same for all three.	
	If the percentage error was the same for all three, all the ranges could be brought to 0 error with one ad	justment.
	If I were doing one now, I would order 1% or tighter capacitors.	
	- Leigh	
	In order to get the dial calibration correct the resistors in the bridge circuit must match the capacitors erro capacitors were +3% the resistors have to be +3%.	or value. If all the
	Just order 1% for the caps and the bridge resistors and call it a day.	

Гор	22PROFILE 25 PM = EMAIL	E
Chris108	Post subject: Re: Eico 950B - precision caps?	Posted: 23 Sep 2015 04:0
Member Joined: 19 Jun 2009 10:34 Josts: 8593 Jocation: Long Island	Note that the Eico uses nominal 2.0-uF, 0.02-uF, and 200-pF caps which were commonly available are not so common any more, having been superceded by the E-series numbers like 2.2-uF, 0.022-pain to calibrate if you substitute modern value caps, even if they are all selected to be exact mu	uF, etc. The bridge will be a real
	So what to do is put two smaller caps together to replicate the original values, eg. two 0.01's in pa	arallel to make 0.02, and so forth
	"Hell, there are no rules herewe're trying to accomplish something!"	
	Thomas A. Edison	
Гор	📴 PROFILE 📴 PM 🖃 EMAIL	
Alan Douglas	Post subject: Re: Eico 950B - precision caps?	Posted: 23 Sep 2015 06:1
Member loined: 31 Dec 1969 17:00 vosts: 30698	But then anybody who actually uses a 950 to measure capacitance is nuts. It's fine for leakage test yourself (positive HV is grounded, not negative. Surprise!)	ts, or if you enjoy shocking
.ocation: Pocasset, Cape Cod, MA		🖹 🛄 REPORT
Гор	PROFILE PM	
Chris108	Post subject: Re: Eico 950B - precision caps?	Posted: 23 Sep 2015 07:3
Member Ioined: 19 Jun 2009 10:34 Josts: 8593 Jocation: Long Island	Actually, the Eico 950B is like many other capacitor testers, leakage testers, and megohm meters negative lead instead of the positive. And even when doing R or C measurements, the test leads consecuted to the case, so one should not touch any bare terminals and the instrument at the same tic case, or even just resting a metal can capacitor on top while connected can result in internal dam. And I've been called 'nuts' before and undoubtedly will be again, but I still use similar bridges to me capacitance meters are notorious for rolling capacity, leakage, and ESR into one wrong number from the same terminal sector.	an be at some voltage with ime. Shorting the leads to the nage. neasure capacitors. Small digital
	electrolytic just has a wide tolerance but is otherwise perfectly good, or if it has a serious defect. Eico 950s or similar bridges for the price of one used digital LCR bench meter that can separate ES leakage at high voltages.	And one can buy a truckload of
	"Hell, there are no rules herewe're trying to accomplish something!"	
	Thomas A. Edison	
		E
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	Chris108 wrote:	
	I still use similar bridges to measure capacitors. Small digital capacitance meters are notorious for rolling capacity, leakage, and ESR into one wrong cannot tell if an electrolytic just has a wide tolerance but is otherwise perfectly good, or if it has a s	
Joined: 31 Dec 1969 17:00	Yep what he said ^ ^ ^	
Posts: 34387 Location: Maryland 20709, USA	I use an ESI or GR bridge when I want an accurate reading.	
	My HP 4271B is good for small caps that I know are not leaky, like ceramic.	
	- Leigh	
	73 de W3NLB http://www.AtwaterKent.info Click "Grebe Stuff" for Synchrophase info	
Тор	22PROFILE	E
Roy J. Tellason	Post subject: Re: Eico 950B - precision caps?	Posted: 23 Sep 2015 09:1
Member Joined: 07 Mar 2014 14:26 Posts: 238 Location: Palmyra / Doylesburg PA	For capacitance measurement I have an older B&K unit (the autoranging one with LCD, and in retrospe the manually-ranged unit with LEDs), a much newer L/C tester out of China that seems to work better, wanted something for a while to test leakage at full working voltage on older parts, so this will be my I'm hoping that with new electrolytics in there the eye tube will get a bit brighter.	and a Blue ESR meter. I've
Тор	-2PROFILE 2025 PM -3 ■ EMAIL	E
Alan Douglas	Post subject: Re: Eico 950B - precision caps?	Posted: 23 Sep 2015 11:3
Member	Quote:	
Joined: 31 Dec 1969 17:00 Posts: 30698 Location: Pocasset, Cape Cod, MA	Small digital capacitance meters used to be notorious for rolling capacity, leakage, and ESR into one	wrong number
	Fixed it for you.	
	I just measured a .01 orange drop polypropylene on the two hand-held digital meters on the bench. Th only) read 10.03nF, and if I shunted it with 1 megohm it read 9.77. Wow, 2.6% off. 1 megohm would be size capacitor.	
	only) read 10.03nF, and if I shunted it with 1 megohm it read 9.77. Wow, 2.6% off. 1 megohm would be	

Antique Radio

Jim Mueller	Post subject: Re: Eico 950B - precision caps?
Member	
1	Leigh wrote:
St.	There are three "precision" caps in the 950B with values of 2mfd, 0.02mfd, and 0.0002mfd (200pfd).
AN LONG	Back when this was new they matched the various caps as close as they could.
Joined: 15 Sep 2013 18:42 Posts: 3355	They're only "precision" in the sense that they're matched in their significant digits. For example, they may all be multiples of 2.00 or 1.98 or 2.01 or some such.
Location: Tucson, Arizona U.S.A.	The actual value is not significant. The goal is to have the same error in the same direction for all three. So they can be +3% or -1.5% or whatever, as long as that percentage is the same for all three.
	If the percentage error was the same for all three, all the ranges could be brought to 0 error with one adjustment.
	- Leigh
	That's not correct. The instrument is calibrated using a precision resistor, so in order for the ratio argument to be correct, the capacitors need to be matched to each other and to the resistors. If you want it to be accurate on all ranges, the capacitors need to be within their absolute tolerance, not just a ratio tolerance, unless you want a really big matching job. Quote:
	capacitors need to be matched to each other and to the resistors. If you want it to be accurate on all ranges, the capacitors need to be within their absolute tolerance, not just a ratio tolerance, unless you want a really big matching job. Quote: But then anybody who actually uses a 950 to measure capacitance is nuts.
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Тор	@⊇PROFILE @© PM ====EMAIL	■
codefox	Post subject: Re: Eico 950B - precision caps?	Posted: 24 Sep 2015 18:0
Member Joined: 27 Nov 2010 10:15 Posts: 5449	I use the ancient Eico bridge more for curiosity about the general condition of old electrolytics than any one that cannot be 'reformed' in a minute or two whilst setpping up voltabe shows up easily. Well, chec and at least you know what you're up against, if there is any doubt about whether to do a wholesale re- set. So far as pricise measurements of capacitance, modern inexpensive digital meters are an order of but totally useless for determining patency under operating voltages.	k a few sections and pieces, cap or not on a particular
		EPORT
Тор	J	
Alan Douglas	Post subject: Re: Eico 950B - precision caps?	Posted: 24 Sep 2015 18:4
Member Joined: 31 Dec 1969 17:00 Posts: 30698 Location: Pocasset, Cape Cod, WA	I think Jim is correct, if you want the R and C ranges to be accurate. You can slip the dial to make the the R would be off. But, to repeat, anyone who uses a bridge to measure R is nuts too. Neither of my hand-held cap meters is a lab instrument; both were cheap purchases at the MIT Flea, ar modern Chinese equivalent for even less than I paid.	-
	As to measuring capacitance at operating voltage, I have a bridge that will do it (Clough-Brengle militar and never found any difference worth worrying about.	ry model ZM-11), I tried it,
	I have no experience measuring flaky silver micas in IF transformers.	
Тор	a⊇PROFILE and PM	■ !!! report ■ → quote
easyrider8	Post subject: Re: Eico 950B - precision caps?	Posted: 24 Sep 2015 19:4
Member		
Joined: 31 Dec 1969 17:00 Posts: 12549	Alan Douglas wrote:	
ocation: Mole Minnersta	I think Jim is correct, if you want the R and C ranges to be accurate. You can slip the dial to make the	a C randes come out but
Location: Mpls, Minnesota	then the R would be off. But, to repeat, anyone who uses a bridge to measure R is nuts too.	e c ranges come out, but
Location: mpis, minnesota	then the R would be off. But, to repeat, anyone who uses a bridge to measure R is nuts too. What Leigh and I were saying is the capacitors and resistors must be off by the same amount in order for Jim said is "the capacitors need to be within their absolute tolerance, not just a ratio tolerance, unless matching job." which I disagreed with.	or the dial to calibrate. What
Location: mpis, minnesota	What Leigh and I were saying is the capacitors and resistors must be off by the same amount in order for Jim said is "the capacitors need to be within their absolute tolerance, not just a ratio tolerance, unless	or the dial to calibrate. What
Location: mpis, minnesota	What Leigh and I were saying is the capacitors and resistors must be off by the same amount in order for Jim said is "the capacitors need to be within their absolute tolerance, not just a ratio tolerance, unless matching job." which I disagreed with.	or the dial to calibrate. What s you want a really big
	What Leigh and I were saying is the capacitors and resistors must be off by the same amount in order for Jim said is "the capacitors need to be within their absolute tolerance, not just a ratio tolerance, unless matching job." which I disagreed with.	or the dial to calibrate. What s you want a really big
	What Leigh and I were saying is the capacitors and resistors must be off by the same amount in order for Jim said is "the capacitors need to be within their absolute tolerance, not just a ratio tolerance, unless matching job." which I disagreed with. Dave	or the dial to calibrate. What s you want a really big ₪ⅢREPORT ☞OUDTE
Top Johnnysan Member Joined: 31 Dec 1969 17:00 Posts: 18544 Location: Albuquerque, NM	What Leigh and I were saying is the capacitors and resistors must be off by the same amount in order for Jim said is "the capacitors need to be within their absolute tolerance, not just a ratio tolerance, unless matching job." which I disagreed with. Dave	or the dial to calibrate. What s you want a really big ■ Posted: 24 Sep 2015 19:5 wo 1uf mylar caps (250 volt)
Top Johnnysan	What Leigh and I were saying is the capacitors and resistors must be off by the same amount in order for Jim said is "the capacitors need to be within their absolute tolerance, not just a ratio tolerance, unless matching job." which I disagreed with. Dave Post subject: Ro: Eico 950B - precision caps? If I remember correctly, the last two 950s I worked on had bad capacitors and I replaced the 2uf with to These measured within about 2% and the accuracy was quite good afterwards. It's been my experience	or the dial to calibrate. What s you want a really big ■ REPORT ■ Posted: 24 Sep 2015 19:55 wo 1uf mylar caps (250 volt).

Antique Radio F

	Post subject: Re: Eico 950B - precision caps?	Posted: 24 Sep 2015 22:4
ember ined: 31 Dec 1969 17:00 sts: 12549 cation: Mpls, Minnesota	I have a large selection of capacitors so it is pretty easy to match up a pair for the 2mfd and the .02m 200 pf is usually still good but if it needs replacing 1% is easy enough to find. Dave	fd to make them perfect. The
op		■ <mark>!!!</mark> REPOR [.] ■ > 000TE
Jim Mueller	Post subject: Re: Eico 950B - precision caps?	Posted: 30 Sep 2015 22:1
Member	Sorry to take so long to get back to this, but not everyone has time to be on ARF every day.	
The second second	Quote:	
	Sorry to burst your bubble but Leigh was correct. I suggest you study up on bridge circuits.	
	Dave	
oined: 15 Sep 2013 18:42 osts: 3355 ocation: Tucson, Arizona U.S.A		
	calibration procedure.	
	The owner's manual, which contains simplified schematics on page 8, is here: [url][/url] The construction manual, which contains the calibration procedure on page 10, is here: http://bama.edebris.com/download/eico/950bconst/950bconst.djvuhttp://bama.edebris.com/downl As you can see from the simplified schematics in figures 1, 2, and 3, the unknown capacitor is directly capacitor in the bridge. If these internal capacitors were ratio matched and the bridge were calibrated and the pointer set accordingly, everything would be fine on the capacitance scales. However, precision capacitors are not as common as precision resistors and someone restoring one of a follow the calibration instructions in the manual. This brings simplified schematic figure 4 into the disc	compared to the standard d using a precision capacitor these instruments is likely to cussion. The calibration is
	The owner's manual, which contains simplified schematics on page 8, is here: [url][/url] The construction manual, which contains the calibration procedure on page 10, is here: http://bama.edebris.com/download/eico/950bconst/950bconst.djvuhttp://bama.edebris.com/download/eico/950bconst.djvuhttp://bama.edebris.com/download/eico/950bconst.djvuhttp://bama.edebris.com/download/eico/950bconst.djvuhttp://bama.edebris.com/download/eico/950bconst.djvuhttp://bama.edebris.dvalttp://bama.edebris.dvalttp://bama.edebris.com/download/eico/950bconst.djvuhttp://bama.edebris.dvalttp://bama.edebris.dvalttp://bama.edebris.dvalttp://bama.edebris.dvalttp://bama.edebris.dvalttp://bama.edebris.dvalttp://bama.edebris.dvalttp://bama.edebris.dvalttp://bama.edebris.dvalttp://bama.edebris.dvalttp://bama.edebris.dvalttp://ba	compared to the standard d using a precision capacitor these instruments is likely to cussion. The calibration is pacitors were off value, ever only way for ratio matching t
	The owner's manual, which contains simplified schematics on page 8, is here: [url][/url] The construction manual, which contains the calibration procedure on page 10, is here: http://bama.edebris.com/download/eico/950bconst/950bconst.djvuhttp://bama.edebris.com/downl As you can see from the simplified schematics in figures 1, 2, and 3, the unknown capacitor is directly capacitor in the bridge. If these internal capacitors were ratio matched and the bridge were calibrated and the pointer set accordingly, everything would be fine on the capacitance scales. However, precision capacitors are not as common as precision resistors and someone restoring one of the follow the calibration instructions in the manual. This brings simplified schematic figure 4 into the disc done by comparing two resistors, an external one and the standard in the bridge. Therefore, if the cap if they were matched to each other, the measurements taken would be off by the same amount. The of work is if the resistors were off by the same amount as the capacitors.	compared to the standard d using a precision capacitor these instruments is likely to cussion. The calibration is pacitors were off value, even only way for ratio matching t

I've done it and it woks fine. Of course, this means you have to disconnect the windings inside the transformer or get the capacitor out without damaging it, but it can be done. It also means using short leads to connect it, but that applies whenever you are measuring small capacitors.

Quote:

	F	
	There are three "precision" caps in the 950B with values of 2mfd, 0.02mfd, and 0.0002mfd (200	Opfd).
	Back when this was new they matched the various caps as close as they could.	
	They're only "precision" in the sense that they're matched in their significant digits.	
	For example, they may all be multiples of 2.00 or 1.98 or 2.01 or some such.	
	Do you have any documentation or other evidence that the did this? Besides the labor of doing to inventory control problem of keeping the sets together, probably by bagging them. Then there is the ones that didn't match anything; 2 uF capacitors aren't used in too many tube circuits. I think it is more likely, without any evidence, that they just had the capacitors selected by the added distributor to be within a specified tolerance (which we also don't know). These companie work and would have no problem with selling the "out of tolerance" parts. Jim Mueller	s the question of what to do with capacitor manufacturer or a value
	Jim Mueller	
		E HEPOR
op		
easyrider8	Post subject: Re: Eico 950B - precision caps?	Posted: 30 Sep 2015 22:
oined: 31 Dec 1969 17:00 losts: 12549 ocation: Mpls, Minnesota	I think a couple of us have already expressed this "Jim Mueller"They're only "precision" in the sense that they're matched in their significant digits. For example, they may all be multiples of 2.00 or 1.98 or 2.01 or some such.[/quote] Do you have any documentation or other evidence that the did this? Besides the labor of doing to inventory control problem of keeping the sets together, probably by bagging them. Then there is the ones that didn't match anything; 2 uF capacitors aren't used in too many tube circuits. <i>This is in some of the Heathkit documentation, if I can find it I will post it.</i> "Jim Mueller"I think it is more likely, without any evidence, that they just had the capacitors self manufacturer or a value-added distributor to be within a specified tolerance (which we also down be set up for this kind of work and would have no problem with selling the "out of tolerance" pairs	he testing, there would also be the s the question of what to do with ected by the capacitor i't know). These companies would
	I stand by what I said: If the resistors and capacitors are off by the same amount the unit will ca discrepancy as you seem to agree with me.	librate fine, I really don't see your
	Dave	
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