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 May 26, 2022, 02:27:53 pm

 This topic



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Author **Topic: Fluke 289 super capacitor (Read 3693 times)**

volvo_nut_v70 and 0 Guests are viewing this topic.

ELCouz

Newbie

Posts: 2

Country: 



Fluke 289 super capacitor

« on: September 25, 2018, 09:50:34 pm »

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Hi,

I am out of warranty for the Fluke 289 and I need to replace the super cap which of course is leaking.

Any part # or equivalent specs for a better than the OEM Panasonic one?

Thank you very much!

Laurent


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dacman

Frequent Contributor



Posts: 411

Country: 



Re: Fluke 289 super capacitor

« Reply #1 on: September 25, 2018, 10:35:59 pm »

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There are lots of threads on that. Just search for 289 Super Capacitor.

« Last Edit: September 25, 2018, 10:49:52 pm by dacman »

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coromonadalix

Super Contributor

Re: Fluke 289 super capacitor

« Reply #2 on: September 25, 2018, 10:52:47 pm »

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Posts: 3632
Country:



Rebuilt my Flukes 189 with theses :

<https://www.digikey.com/product-detail/en/elna-america/DX-5R5H104U/604-1022-ND/970183>
100mf or 0.1 farad
<https://www.digikey.com/product-detail/en/elna-america/DX-5R5H334U/604-1024-ND/970185>
330mf or 0.33 farad

I used the 5.5volts super cap, with a slight pins bending they fit perfectly be careful of the polarity, there an small "-" (minus sign) on the top and check on the pcb before removing the "old" part, dont over heat the pcb traces, and do an proper board cleaning after.

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joeqsmith

Super Contributor



Posts: 8952
Country:



Re: Fluke 289 super capacitor

« Reply #3 on: September 25, 2018, 11:01:14 pm »

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I'm using a similar part.

<https://youtu.be/8t8nkCbYJvc?t=17>

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How electrically robust is your meter?? <https://www.youtube.com/channel/UCsK99WXk9VhcghnAauTBsbg>
Software, documentation and test reports for the low cost NanoVNA, V2+4 and LiteVNA may be found here:
<https://github.com/joeqsmith>

Fabry_85

Contributor

Posts: 6

Country:



Re: Fluke 289 super capacitor

« Reply #4 on: January 30, 2019, 11:20:39 am »

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HELLO boys!

I need your help.

I have the tester 289 that as I turn on gives me an "incorrectly connected cables."

Could it be the super capacitor?

it is damaged. the fluke is 289 and of the year 2008.

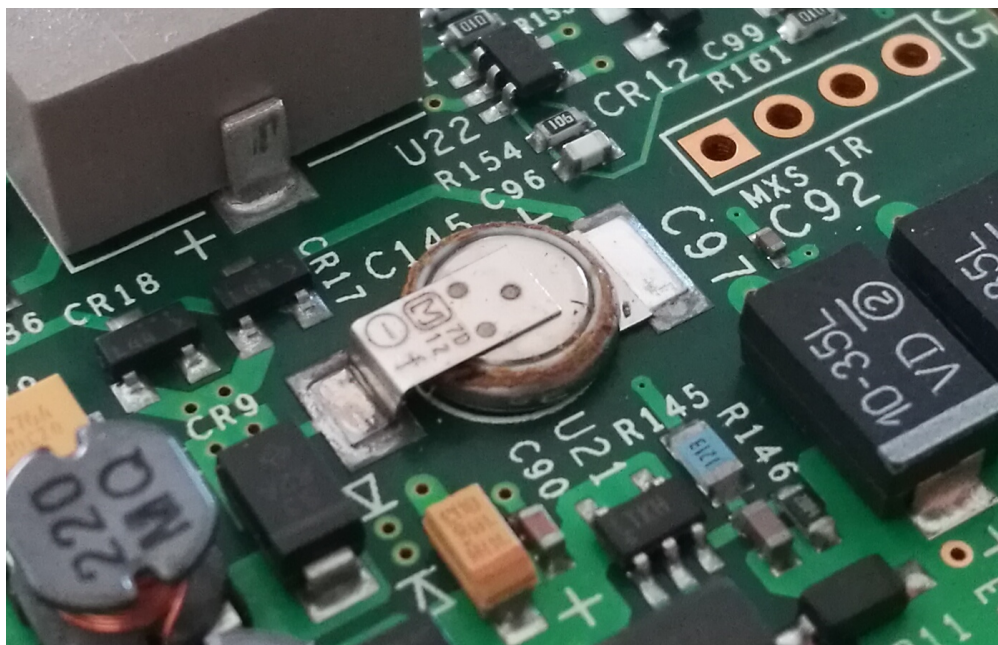
I found on ebay a PANASONIC GOLDCAP KONDENSATOR Capacitor 0,22F 3,6V 10x5MM[/].

You can help me?

Thank you.



FLUKE.jpg (218.19 kB, 2976x3968 - viewed 301 times.)



IMG_20190129_161326.jpg (378.28 kB, 1398x894 - viewed 538 times.)

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coromonadalix

Super Contributor



Posts: 3632

Country:



Re: Fluke 289 super capacitor

« Reply #5 on: January 30, 2019, 06:16:08 pm »

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If i recall you have optocouplers for the leads detection

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ElecSeb

Regular Contributor



Posts: 75

Country:



Re: Fluke 289 super capacitor

« Reply #6 on: January 30, 2019, 06:49:09 pm »

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Quote from: coromonadalix on January 30, 2019, 06:16:08 pm

If i recall you have optocouplers for the leads detection

Correct

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mr.fabe

Regular Contributor



Posts: 168

Country:



Re: Fluke 289 super capacitor

« Reply #7 on: January 30, 2019, 09:18:14 pm »

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Not sure if this is the correct part but you can check it out...

<https://www.ebay.com/itm/Fluke-Multimeter-289-fix-for-Warning-Leads-Connected-Incorrectly/222887522548?hash=item33e521b0f4:g:-n8AAOSwgBNarXQ3:rk:1:pf:1>

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Fabry_85

Contributor

Posts: 6

Country:



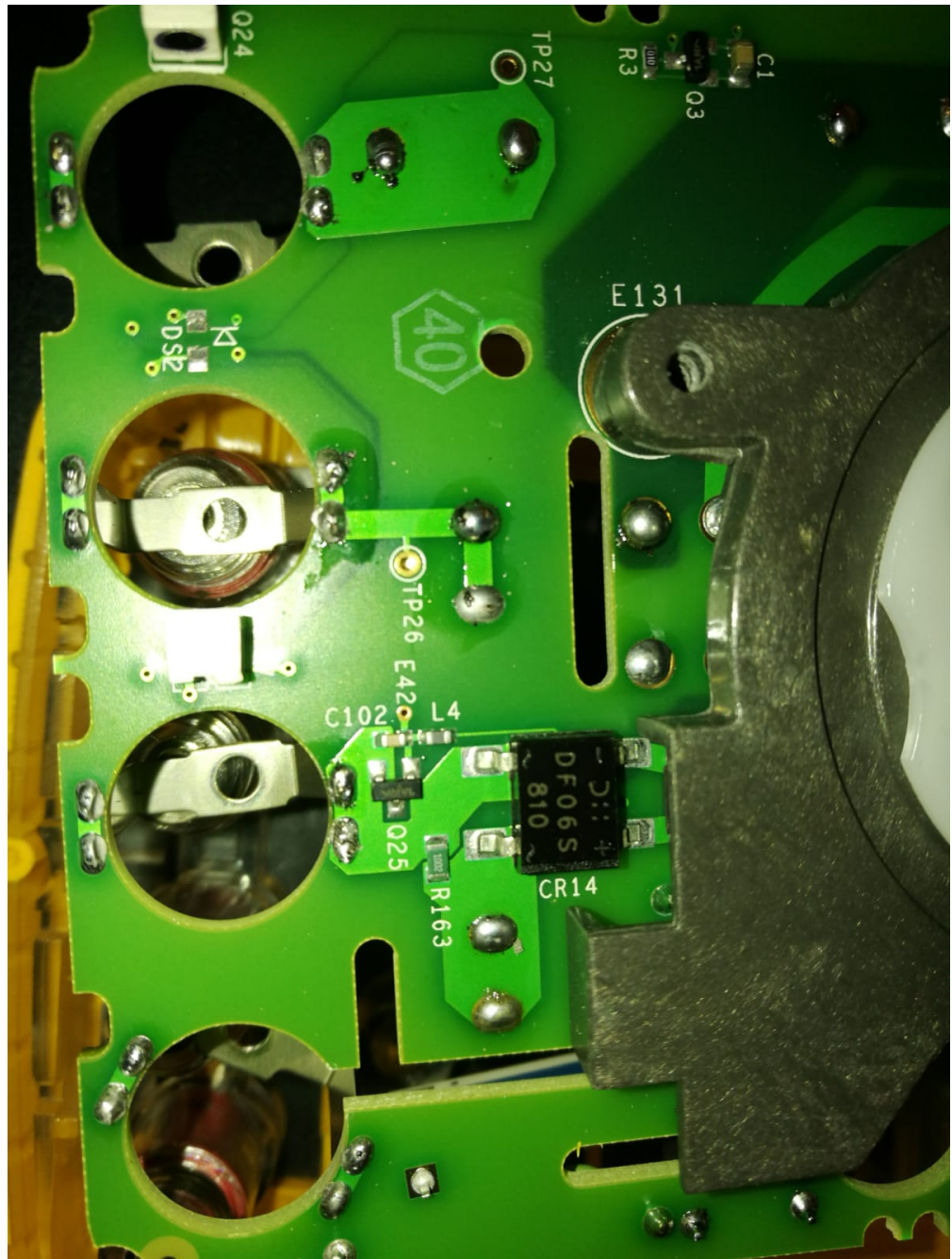
Re: Fluke 289 super capacitor

« Reply #8 on: January 30, 2019, 09:20:25 pm »

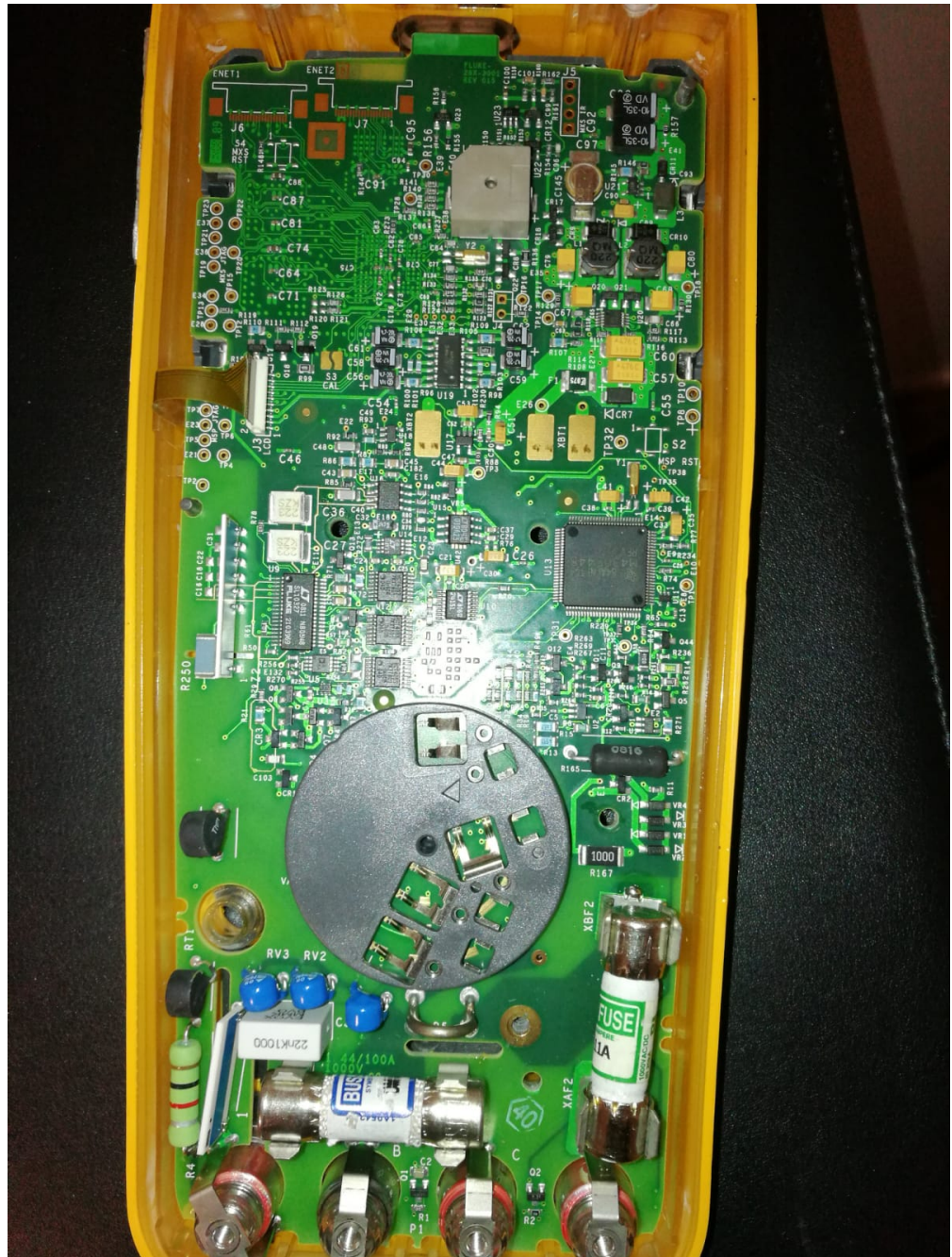
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Can you please tell me exactly wich optocoupler is damaged? I do not have a schematic. At first it happened sometimes in cold and wet environments. Now it always has this bad behavior. Can I find the same octocoupler ? Do I need to replace it with a compatible one?

Thank you



IMG-20190130-WA0001_1548882982493.jpg (184.6 kB, 1200x1600 - viewed 326 times.)



IMG-20190130-WA0002_1548882982282.jpg (332.08 kB, 1200x1600 - viewed 358 times.)

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Fabry_85

Contributor

Posts: 6

Country:



Re: Fluke 289 super capacitor

« **Reply #9** on: January 30, 2019, 09:26:25 pm »

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You're right. Where can I find it in Europe or Italy?
Anything compatible?



IMG-20190130-WA0001_1548882982493.jpg (312.57 kB, 1200x1600 - viewed 208 times.)

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2N3055

Super Contributor



Posts: 4497

Country:



Re: Fluke 289 super capacitor

« Reply #10 on: January 30, 2019, 10:06:14 pm »

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It is a known problem .

See here :

<https://www.eevblog.com/forum/reviews/fluke-287-input-alert-diode-type-replacement/msg683654/#msg683654>

<https://www.eevblog.com/forum/beginners/my-fluke-289-displays-warning-leads-connected-incorrectly-after-the-case-open/msg735239/#msg735239>

You are missing IR LED diode. If you lost it you will need to buy new one and solder it in.

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Fabry_85

Re: Fluke 289 super capacitor

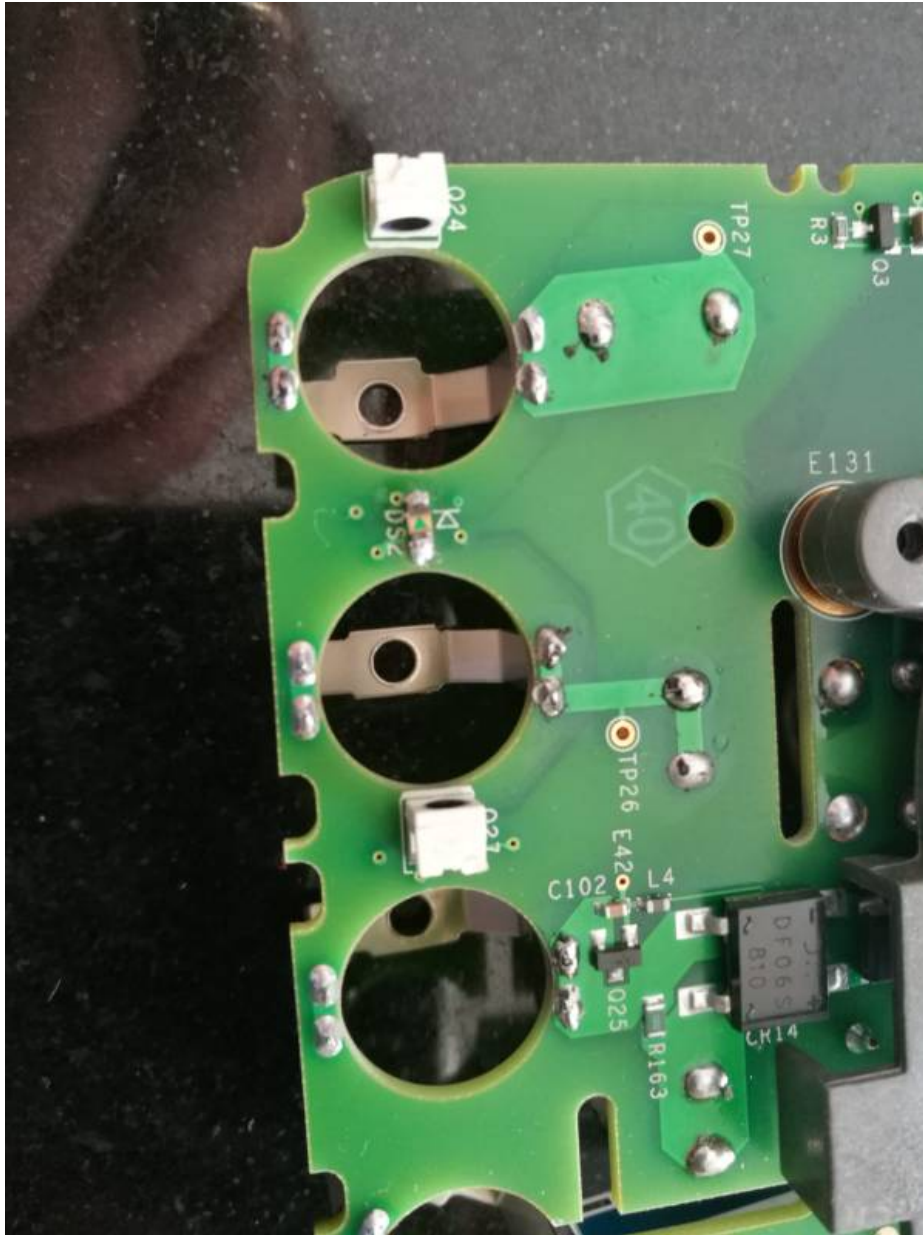
<https://www.eevblog.com/forum/repair/fluke-289-super-capacitor/msg1850090/#msg1850090>

Contributor
Posts: 6
Country:

« Reply #11 on: February 03, 2019, 01:37:20 pm »

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the Ds2 must be welded like this?



Inviato dal mio FRD-L09 utilizzando Tapatalk

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ElecSeb
Regular Contributor

Posts: 75
Country:

« Re: Fluke 289 super capacitor
« Reply #12 on: February 03, 2019, 02:14:35 pm »

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That is upside down!!

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Fabry_85
Contributor
Posts: 6
Country:

« Re: Fluke 289 super capacitor
« Reply #13 on: February 03, 2019, 05:52:54 pm »

Say Thanks Reply Quote

Quote from: ElecSeb on February 03, 2019, 02:14:35 pm

That is upside down!!

Ok! thanks.

Inviato dal mio FRD-L09 utilizzando Tapataalk

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ElecSeb
 Regular Contributor

 Posts: 75
 Country:

Re: Fluke 289 super capacitor
 « Reply #14 on: February 04, 2019, 07:19:11 am »

Say Thanks Reply Quote

The PCB you show looks like it has been soldered before... No by you I suppose?
Are you sure the meter is still working?

I am sorry for my bluntness, but based on your shown experience you do not seem to have that much experience in electronics...
Are you sure you are capable to make this repair and would it not be wiser to put this one with a correct description on ebay and buy yourself a working new one (calibrated and within spec?)

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