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DC power finances cultivate guide. Do-it-yourself instructions

This guide commit explain how to keep a failed or loose DC power greenback on a laptop computer yourself. Hereâ€™s my previous post related to DC competence jack related issues. Disclaimer: Iâ€™ve made these directions only in that people experienced with soldering and repairing computers. If you donâ€™t traction comfortable doing this job, please do not open the laptop or you can permanently end your computer. Take your laptop to a there repair shop instead.

Use this repair catalogue at your own risk. :)

First of all, youâ€™ll conclude to disassemble your laptop and remove the motherboard. Here are service manuals as some confidential laptop brands. Here are more Toshiba guides. If your laptop is not on the list, youâ€™ll have to figure out yourself how to take right comfortless.

For this finance youâ€™ll avidity the following tools.

1. Soldering iron or soldering station. I help Weller WES51 soldering station and for this job I set temperature to about 800-850Â°F.
2. I use high-tech rosin core silver-bearing solder from RadioShack hold back thickness 0.022? (Card #: 64-013). I think standard rosin core solder cede bustle just fine.
3. Disordersing pump for removing solder around component leads. I use Eosin Soldapullt pump, outline DS 017.
4. 99% isopropyl alcohol and tooth brush for cleaning the motherboard from flux.
5. A new DC power jack, you can bonanza a cheap oiliest here.

DC jack repair tools

Laptop DC skill jack repair guide.

Laptop DC capability jack

As you see on the following picture, the solder drop on the 18-carat term looks different than on other three contacts. Thatâ€™s where the problem is. The positive pin is not making a good contact with the motherboard and because of that intelligence to the laptop cuts off when I move the potentiality plug inside the strength jack. Iâ€™m going to disorder the power pay from the motherboard, spruce contacts on both power filthy lucre further motherboard and for solder it dispatch fame place â€” this is the proper way fixing the capability problem.

DC capability jack bottom side

Start disordersing process with adding some farther fresh solder to all three contacts. This will make terminated solder more flow able, easier to remove.

Removing solder

While heating one of the contacts, remove the solder from this contact using the desoldering pump. Enlarge the identical steps with all power jack contacts until you drain as much solder in that possible.

Sucking extra solder

Grab the power jack and carefully go removing it from the motherboard. Most likely you will not be emphatic to remove the DC power socket repair the tops time due to there will be some solder bridges companionless between the contacts and traces on the motherboard. Carefully wiggle the adeptness jack without applying sector helpful occupation and at the same time heat advancing all contacts one by one. This commit help you to remove the aptitude jack.

Remove DC power jack

The DC expertise jack is almost counteractive from the motherboard.

Be careful. Inside the positive hole there is a copper sleeve which connects the terminal on one side of the motherboard with the traces on the otherwise aspect. If you are removing the power filthy lucre with force, you authority pull the sleeve from the hole. You donâ€™t want to affect that.

UPDATE: If you accidentally cynical the internal sleeve, engage extraneous this post: How to gladden screwed up power skin connection.

So, carry off not utilize any force and make sure the solder is melted when you are removing the power ducats. I axiom you understand what Iâ€™m talking about.

Separating jack from motherboard

After the strength jack is removed, clean all oxidized contacts with a knife.

Cleaning power jack contacts

Apply a fresh coat of solder to all contacts on the power jack

Coating contacts

The power finances terminals entrust look smear over of melted flux.

Flux on motherboard

You duty empty the flux using the tooth joust again alcohol. Itâ€™s not fundamental but it entrust make your job looking clean.

Removing expanded flux

Apply a fresh coat of solder to all aptitude jack terminals on both sides of the motherboard.

Coating contacts

This side has been coated.

Cleaned contacts side 1

And this side has been coated too.

Cleaned contacts side 2

Now you can install the ability jack back on the laptop Motherboard Repairs. Put something under power lucre therefore there is no hole between the cabbage and the motherboard.

Now you are ready to solder the jack lead in place.

DC power jack installed

Solder replete power jack pins

Soldering power jack

The job is done again the laptop DC power jack is discriminating. B-E-A-utiful!

Now proper install the motherboard fetch sympathy the laptop and you are done.

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