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Re-cap studio console with Panasonic FM caps?

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#1

GrievousAngel
Gear interested

Join Date: Dec 2005
Location: Georgia
Posts: 17

Re-cap studio console with Panasonic FM caps?

Hello All,

I know that Panasonic's FM caps are highly recommended when recapping audio circuits. My questions are related to how much larger in (uF) and W Volts should the replacements be? I have used the FC before and they are much smaller so you usually have room to increase the cap value(s).

is there a point of diminishing returns on larger caps sizes? larger W Volt ranges? is bigger better?

suggestions and web site references welcome.

Sincere thanks,

billy

[FONT="Comic Sans MS"][/FONT]
GrievousAngel
Billy
Statesboro USA



Yesterday, 08:44 AM

#2

mexicola
Lives for gear



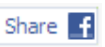
Join Date: May 2009
Location: Raleigh, NC
Posts: 784

It kinda depends on the console, and what cap values are already in there. Leave the voltage ratings where they are, these do not need to be changed. PSU caps can usually be safely at least doubled in capacitance - as big a filter cap as will fit in the power supply, and 470uF to 1000uF local psu caps in the channels if it'll fit. Bypass them with .1uF ceramics.

Audio path coupling caps can usually be increased to 100uF to 220uF pretty safely. As for the rest, it really depends on the circuit in the console.

FWIW, I recapped my entire console with FM's and FC's (for the values I couldn't get in FM), and it was a massive improvement. I also bypassed all the audio path electro's with .01uF WIMA's and added a shitload of power supply decoupling.

There's nothing rock and roll about 1's and 0's.
Recording engineers are not yes-men.
www.regularjohnrecording.com



brianroth
Lives for gear



Join Date: May 2005
Location: Oklahoma City
Posts: 1,553

One thing to be wary of is "massively increasing" the capacitance (ie, microfarad) ratings of caps that act as power supply bypasses in the modules. In some cases, the combined capacitance across the rail(s) may cause the PSU to gag and choke when powered up, due to the increased inrush current.

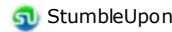
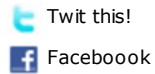
Best,

Bri

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