Subject: Schematic
Posted by stevem on Wed, 20 Mar 2019 11:58:29 GMT
View Forum Message <> Reply to Message

Any one have a schematic for these first run Ross amps?

Subject: Re: Schematic
Posted by JDinPA17603 on Wed, 20 Mar 2019 23:19:46 GMT
View Forum Message <> Reply to Message

If you come up with a copy I can use one for the 200 with the circuit breakers. Also wondering if we could retrofit the A models with circuit protection like the B models have easily.

Subject: Re: Schematic
Posted by pleat on Thu, 21 Mar 2019 01:41:53 GMT
View Forum Message <> Reply to Message

I'd check the organ schematic. It does show the Frankie Ross power amp.
pleat

Subject: Re: Schematic
Posted by stevem on Thu, 21 Mar 2019 11:43:24 GMT
View Forum Message <> Reply to Message

Thanks Pleat, but the organ came about in 1967 and uses the late Frank circuit and I need the early one .

Subject: Re: Schematic
Posted by stevem on Thu, 21 Mar 2019 11:55:32 GMT
View Forum Message <> Reply to Message

JDpinPA17603 the schematics you need are in the 200 A section other then the power supply section with the terrible circuit breakers!

In the A amps you can not apply the B units thermal circuit breaker because the output Transistors are really too far apart, but you can internally bolt on heat sinks to the rear wall panel to cool them faster.

Every 20 degree drop in temp will double the life of a semiconductor, so even doing something like placing a small personal type fan blowing on the rear of the amp is worth it.

The best thing you can do since circuit breakers are so slow to react is to clip them out and install

inline fuse holder and then fuses of the same rating.

Another thing all Kustoms Cam use to help protect and stabilize the output stage is a Zobel network added to the output stage.
This consists of about 5 bucks in parts to make it up and 15 minutes to install it

---

Subject: Re: Schematic
Posted by JDinPA17603 on Thu, 21 Mar 2019 22:34:03 GMT
View Forum Message <> Reply to Message

[My comments added in line.
quote title=stevem wrote on Thu, 21 March 2019 07:55]JDpinPA17603 the schematics you need are in the 200 A section other then the power supply section with the terrible circuit breakers! Got them.

In the A amps you can not apply the B units thermal circuit breaker because the output Transistors are really too far apart, but you can internally bolt on heat sinks to the rear wall panel to cool them faster. Can do.

Every 20 degree drop in temp will double the life of a semiconductor, so even doing something like placing a small personal type fan blowing on the rear of the amp is worth it. Did not realize it was that much of a factor.

The best thing you can do since circuit breakers are so slow to react is to clip them out and install inline fuse holder and then fuses of the same rating. <grin>

Another thing all Kustoms Cam use to help protect and stabilize the output stage is a Zobel network added to the output stage.
This consists of about 5 bucks in parts to make it up and 15 minutes to install it [/quote] I will investigate these. Do you have a recommended set of values for use asa guitar amp? Would the amp used for bass require different values.
?
Thanks again Steve for your help and information.

John