ELECTRICAL AUDIO

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Ampex 351 Mic' Preamps

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Sorry about the delay folks. Here is as much as I could come up with. The notes on this project are unorganized so give me a call if you want more details.

This is what we did-

- cleaned off all the electronics except for the transformers, meter, and interconnect wires.
- stripped the old components off the 3 boards, and repopulated them with new components of the same value (few exceptions). We only included components in the new schematic.
- 105 degree Panasonic filter caps on power supply bd.
- replaced all tube sockets (V1 shielded)
- replaced "record level" pot with a new Clarostat one
- replaced any iffy looking wires and edge connectors
- new resistors, metal film, ½ Watt, 1%

The "playback level" pot was replaced with a 3 section Davin output attenuater pot. This gives you a chance to amplify the signal to distortion or whatever, and trim the output back to a usable level. That has been a handy feature.

The "meter and output" switch was converted to just be a meter defeat. This does come into use more than you would expect.

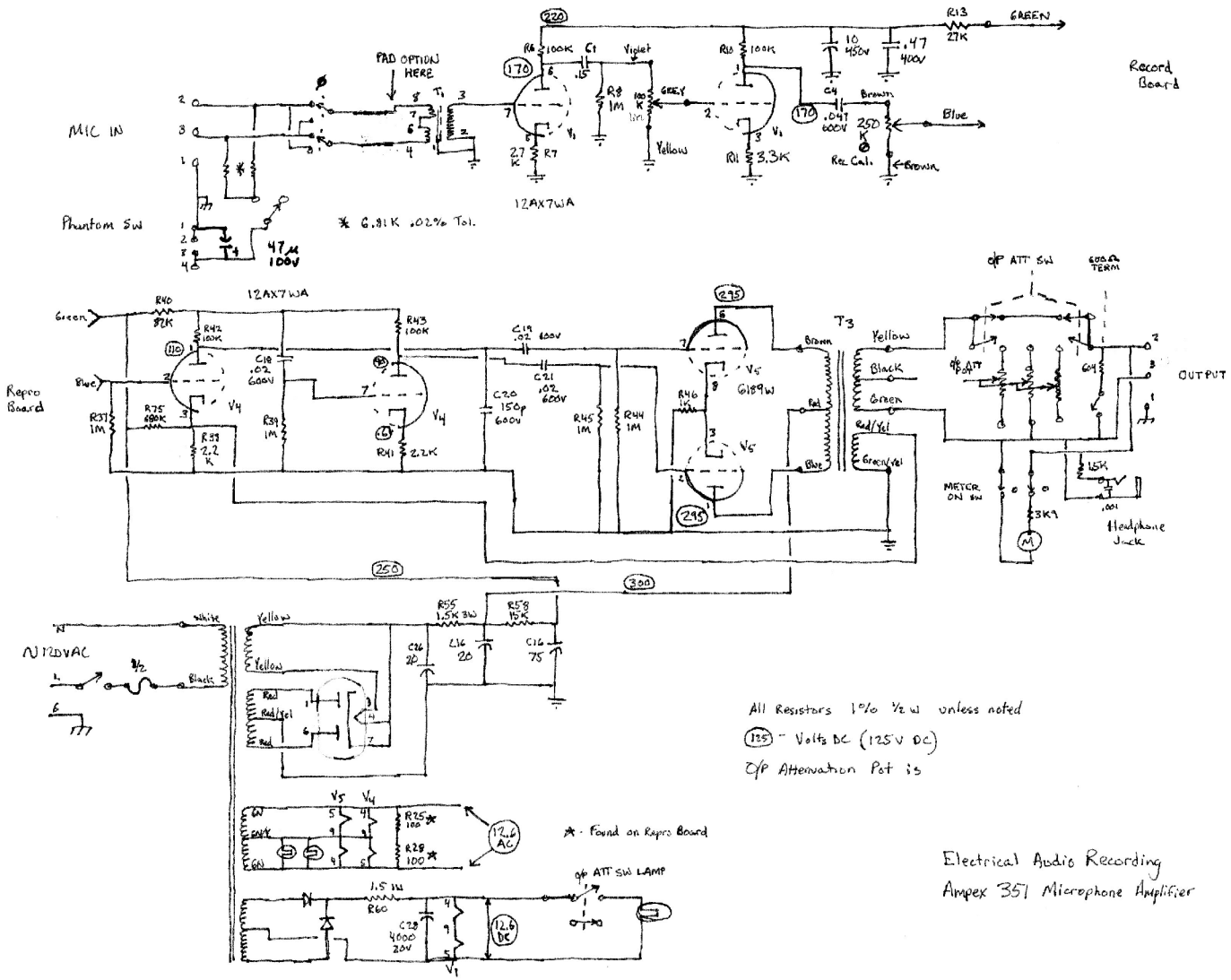
So far so good. They're quiet, reliable, and keep cool. They aren't completely colorless however. I've noticed a gentile rise at around 15kHz (1.5dB at most). The rest of the frequency response is flat from about 10Hz to 14k, and from 17k on to 35kHz. We have 8 of these things permanently fixed in the two studios here, and they get a lot of use.

Feel free to call or e-mail me with questions, and suggestions.

Have fun,

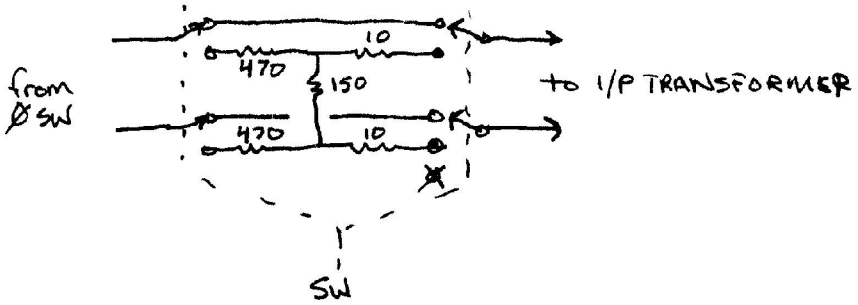
Greg Norman

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MIC IN
PAD OPTION HERE
Phantom SW
* 6.81K .02% Tol.
12AX7WA
Record Board
Repro Board
Blue
Green
Yellow
Violet
Grey
Brown
Red
Black
Red/Yel
Green/Yel
White
Rec Cal.
6189W
T3
OUTPUT
Headphone Jack
METER ON SW
115VAC
All Resistors 1% ½ W unless noted
(135) = Volts DC (125V DC)
C/P Attenuation Pot is
★ - Found on Repro Board
Electrical Audio Recording
Ampex 351 Microphone Amplifier

OTHER NOTES

PAD OPTION -18dB



We put this switch in place of "Input Transfer Switch"

- Output Attenuator is a Davin Attenuator in place of "Playback Level" Pot
- Output Attenuator switch is a [redacted] 6P2T located above ↑

- Polarity reverse switch is where the "Record" button was.
- Phantom power switch is located where the "Record Indicator" light was.
- Our Phantom Power is supplied via 4 pin XLR conn. (on rear panel) by an out-board PSU

351 NEW BACK PANNEL

REAR VIEW

