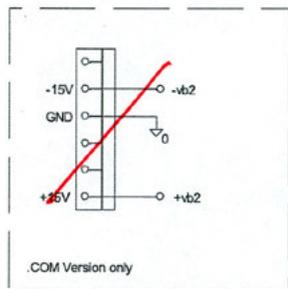
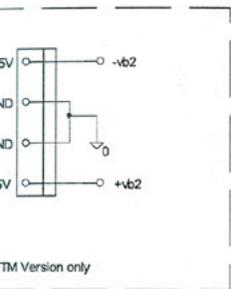
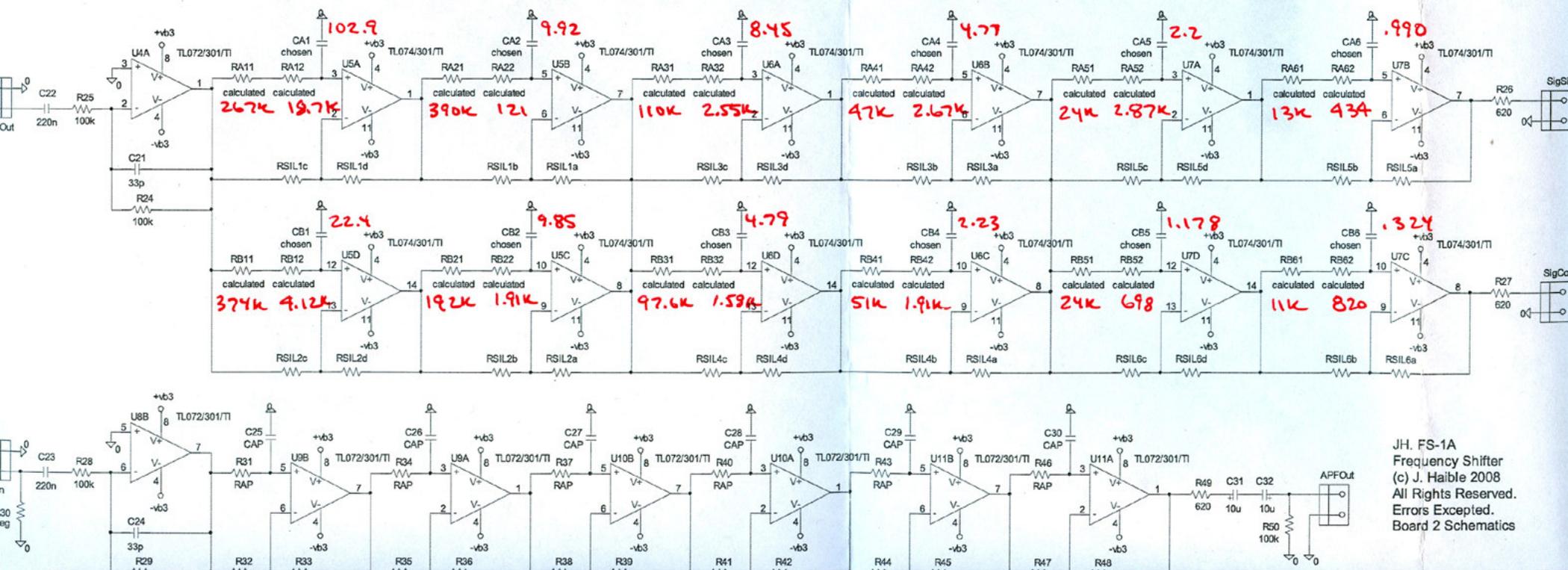
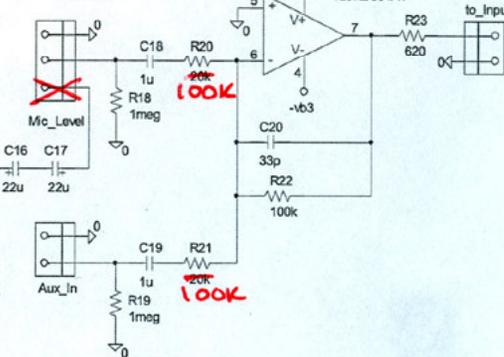
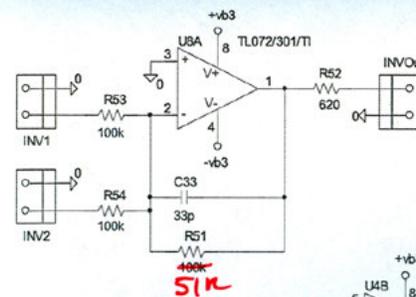
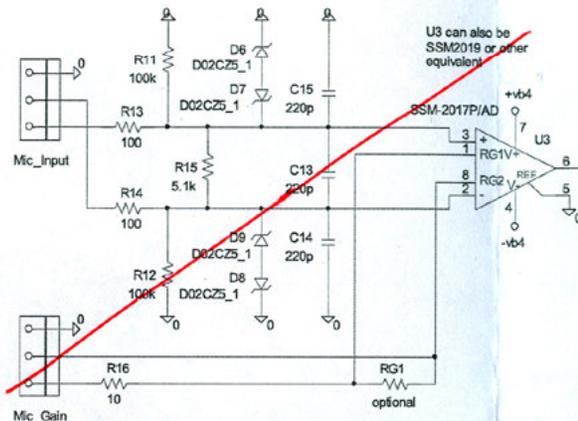
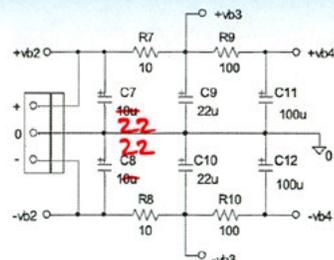


ndalone Version only

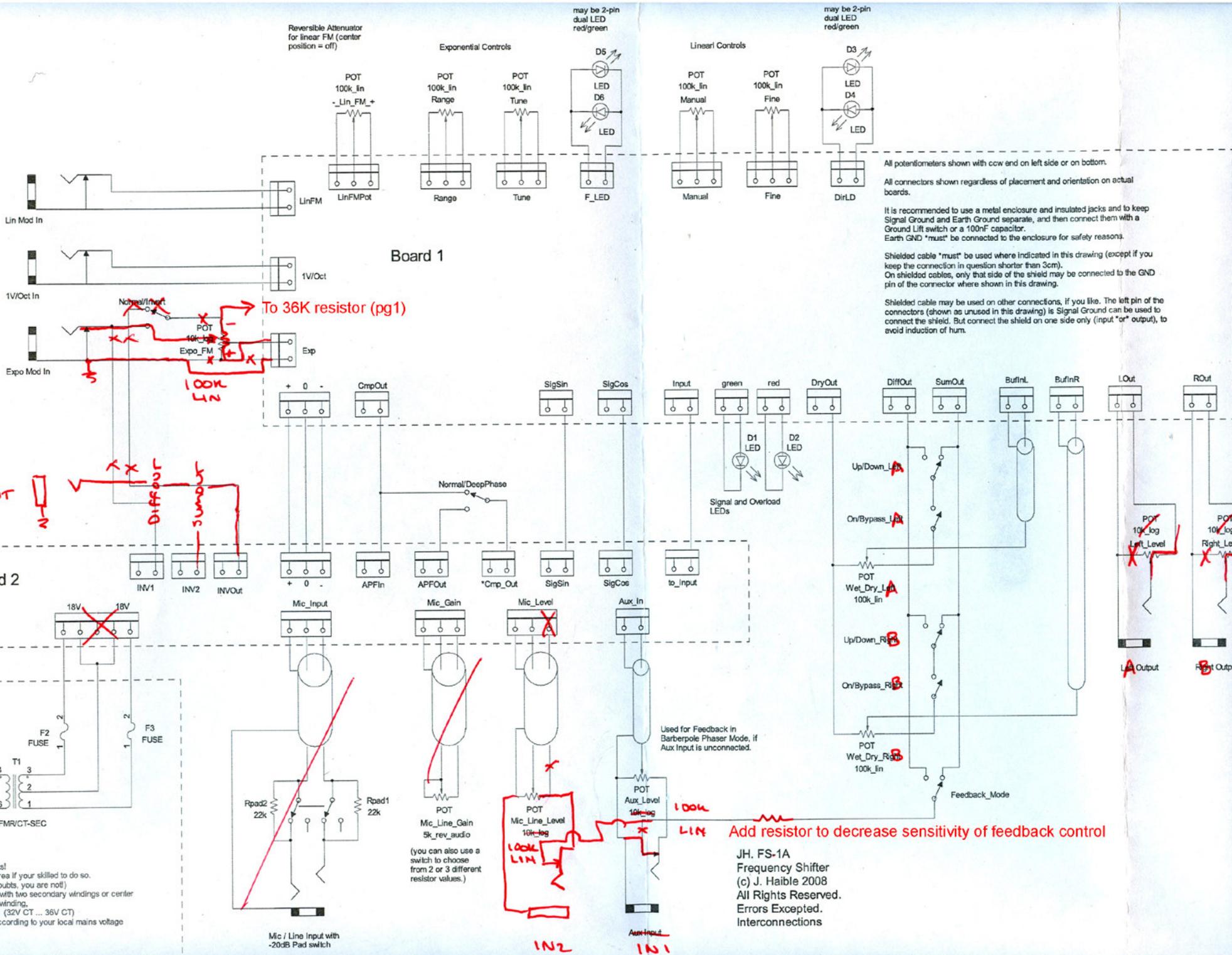


TM Version only

.COM Version only



JH. FS-1A
 Frequency Shifter
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 Errors Excepted.
 Board 2 Schematics



Reversible Attenuator for linear FM (center position = off)

Exponential Controls

Linear Controls

may be 2-pin dual LED red/green

may be 2-pin dual LED red/green

All potentiometers shown with c/w end on left side or on bottom.
All connectors shown regardless of placement and orientation on actual boards.

It is recommended to use a metal enclosure and insulated jacks and to keep Signal Ground and Earth Ground separate, and then connect them with a Ground Lift switch or a 100nF capacitor. Earth GND *must* be connected to the enclosure for safety reasons.

Shielded cable *must* be used where indicated in this drawing (except if you keep the connection in question shorter than 3cm). On shielded cables, only that side of the shield may be connected to the GND pin of the connector where shown in this drawing.

Shielded cable may be used on other connections, if you like. The left pin of the connectors (shown as unused in this drawing) is Signal Ground can be used to connect the shield. But connect the shield on one side only (input *or* output), to avoid induction of hum.

Board 2

Board 1

Safety Critical Parts!
Only work in this area if your skilled to do so.
If you have any doubts, you are not!
This transformer has two secondary windings or center tapped secondary winding.
* 16V ... 2 * 16V (32V CT ... 36V CT)
Secondary winding according to your local mains voltage

Used for Feedback in Barberpole Phaser Mode, if Aux Input is unconnected.

(you can also use a switch to choose from 2 or 3 different resistor values.)

Add resistor to decrease sensitivity of feedback control

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Interconnections

Mic / Line Input with -20dB Pad switch

IN2

AIN1

A Output

B Output