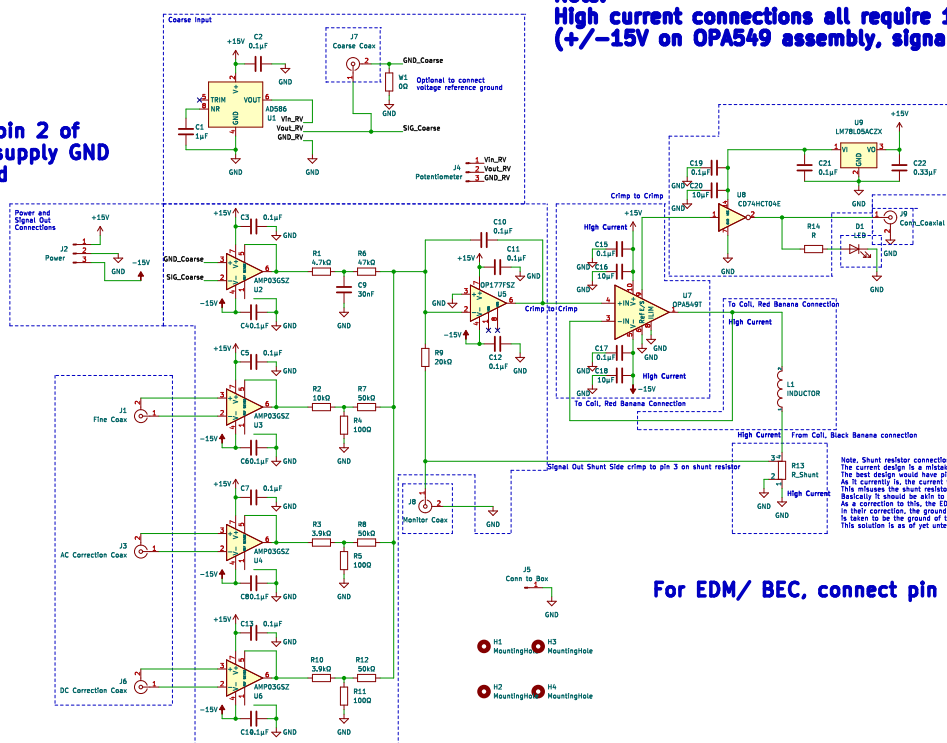


For EDM/ BEC, connect pin 2 of shunt resistor to power supply GND on summing circuit board



**Note:**  
High current connections all require 16 gauge wire and connection to separate high current power supply (+/-15V on OPA549 assembly, signal in and out to coil, GND connection on shunt resistor pin 1)

For EDM/ BEC, connect pin 2 of shunt resistor to power supply GND on summing circuit board

Signal Summing Circuit for the Bias Coil Driver  
Takes inputs from Supertime for coarse and fine tuning  
Update 04/01/2022

- Adds channel for feed-forward correction to magnetic field
- Adds optional 5V voltage reference/potentiometer input for EDM experiment to replace supertime coarse input. This allows for the field to remain on, even when supertime is not running, to prevent magnetic field interference between labs
- Removes 60 Hz correction signal, which proved too noisy to be useful
- Designed to be implemented on a PCB

Update 07/07/2022

- Adds fourth input for DC correction, and changes connection style to kk 254

Notes on values

Low pass filter on Supertime Coarse input, with  $f_c = 1100$  Hz  
Voltage divider on Supertime Fine and Ext Correction,  $V_{out} = 0.01 \cdot V_{in}$