

HS-ACC SINGLE BUILD INFO

PARTS LIST:

ESP32 WROOM 30pin BOARD

ADXL 345 ACCELEROMETER 10pin BOARD

1000 mAh LiPo BATTERY

PERF BOARD

SLIDE SWITCH

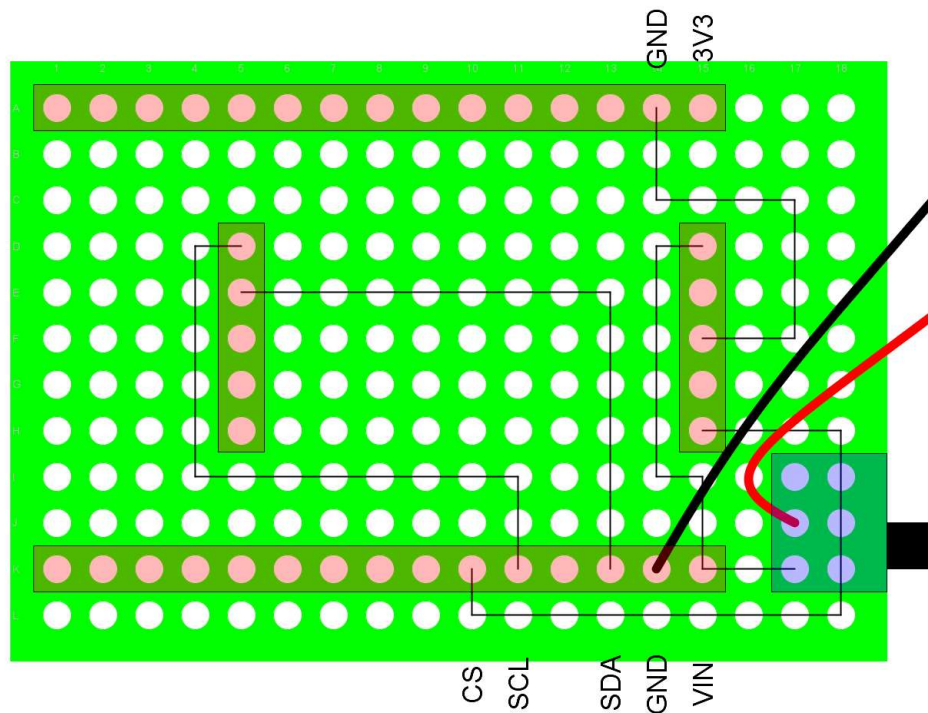
NEODYMIUM MAGNETS 20mm x 4.5mm (need 4)

3D PRINT HOUSING

3D PRINT SCREW CAP

INSTRUCTIONS:

Note how ADXL 345 spans 11 holes in schematic below. Pins have to be spread a bit from 10.5 holes to fit. Removing plastic pin separators makes the slight required spreading easier.



ADXL 345 soldered midway between ESP32 BOARD and PERF BOARD without touching either.



Note 2 layers of mounting tape between PERC BOARD and LiPo to prevent solder joints perforating battery pouch.



Additional layers of mounting tape, keeping protective film on final layer, until friction fit is achieved in HOUSING.



NEODYMIUM magnets (20mm x 4.5mm) are retained with JB WELD. Double stacked for a total of 4 magnets. STRONG!

3D PRINT TIPS:

I used 3 wall instances and 30% infill with PLA.

HOUSING requires supports enabled for magnet holes only. Block supports for thread and lettering areas.

Enjoy the build. Help if needed can be found on HScope TELEGRAM Group.