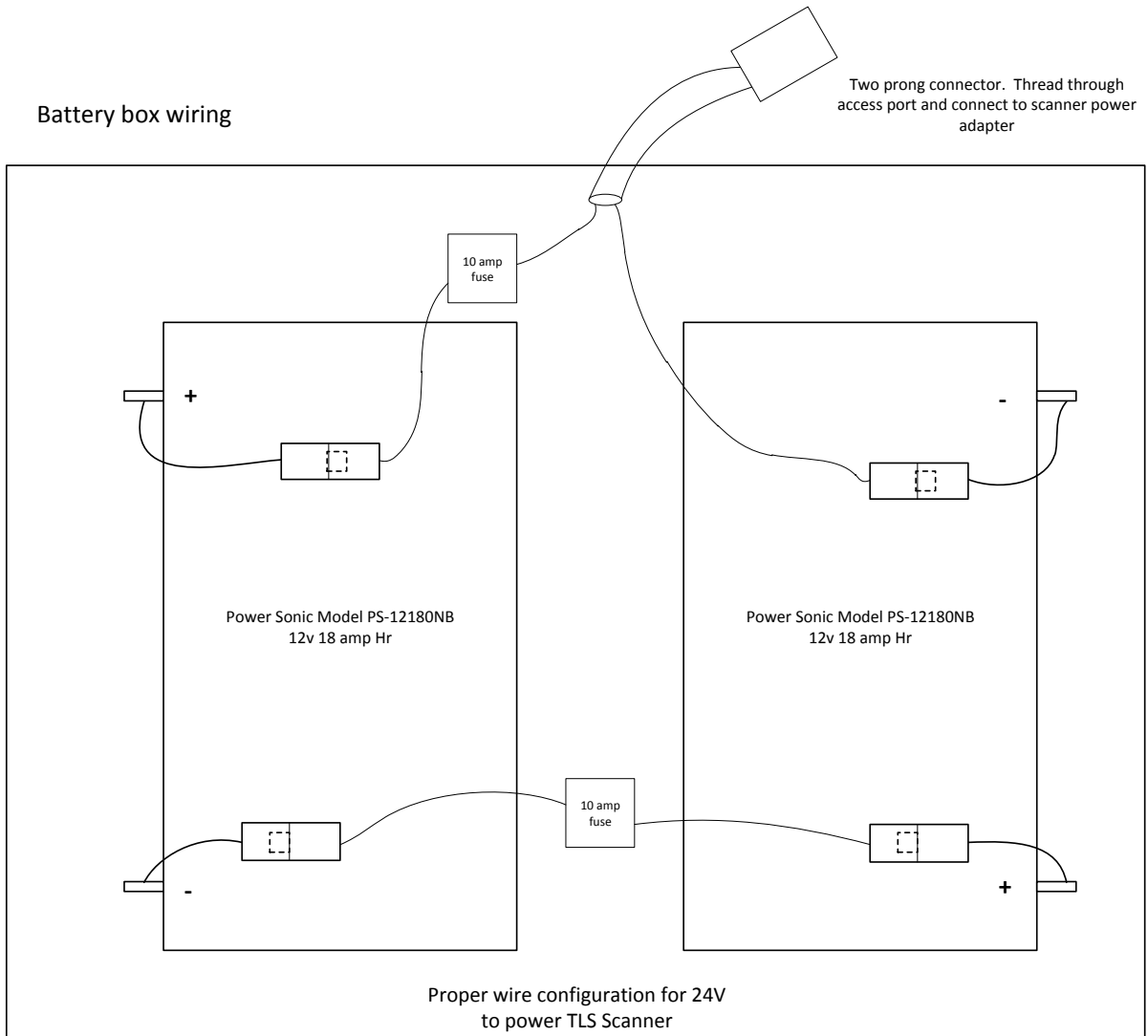
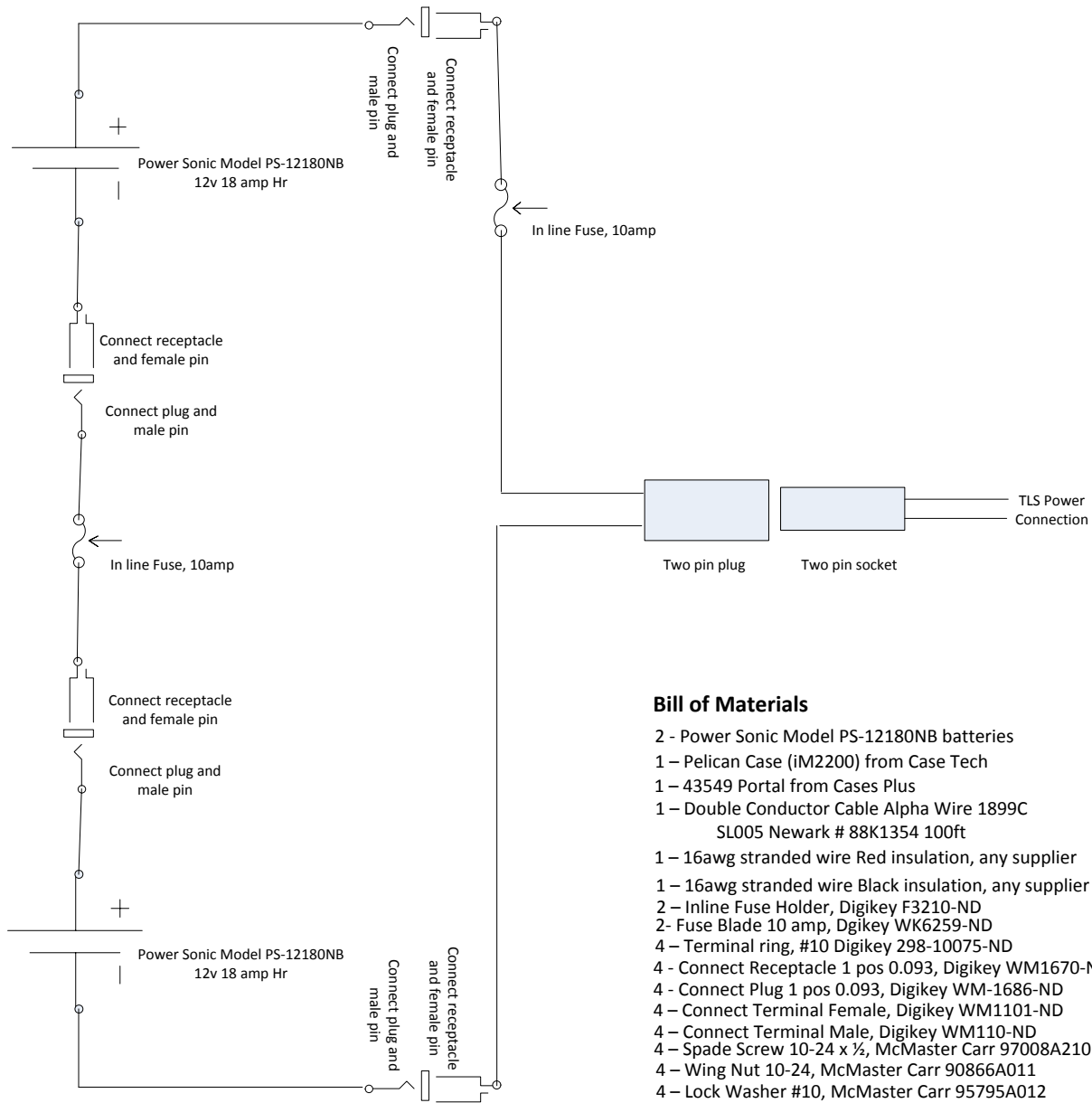


Battery box wiring



TLS Battery Box Schematic



Bill of Materials

- 2 - Power Sonic Model PS-12180NB batteries
- 1 - Pelican Case (iM2200) from Case Tech
- 1 - 43549 Portal from Cases Plus
- 1 - Double Conductor Cable Alpha Wire 1899C
SL005 Newark # 88K1354 100ft
- 1 - 16awg stranded wire Red insulation, any supplier
- 1 - 16awg stranded wire Black insulation, any supplier
- 2 - Inline Fuse Holder, Digikey F3210-ND
- 2 - Fuse Blade 10 amp, Digikey WK6259-ND
- 4 - Terminal ring, #10 Digikey 298-10075-ND
- 4 - Connect Receptacle 1 pos 0.093, Digikey WM1670-ND
- 4 - Connect Plug 1 pos 0.093, Digikey WM-1686-ND
- 4 - Connect Terminal Female, Digikey WM1101-ND
- 4 - Connect Terminal Male, Digikey WM110-ND
- 4 - Spade Screw 10-24 x 1/2, McMaster Carr 97008A210
- 4 - Wing Nut 10-24, McMaster Carr 90866A011
- 4 - Lock Washer #10, McMaster Carr 95795A012
502-5182-2SG-3DC
- 1 - Two Pin Socket Conxall/Switchcraft 5182-
2SG-3DC, Mouser # 502-5182-2SG-3DC
- 1 - Two Pin Plug Conxall/Switchcraft 502-
3182-2PG-3DC, Mouser # 3182-2PG-3DC

* You will need a crimp and extraction tool for Molex connectors. Select what is in your budget, there are multiple choices.

