2016.11.19:

1. Power:
   1. Remove U13:

-18V: 100~200mA, +18V: 130~180mA.

* + 1. Change R61 to 1Kohm, -18V: 100~150mA, +18V: 130 ~ 160mA. Current is changing when spinning motor.
    2. Change R61 to 2Kohm, -18V: 100mA, +18V: 130mA. No change when spinning motor.
  1. Remove U10 & U13: -18V: 100mA +18V: 132mA

1. VREF
   1. remove R111, R118, R84, R86, R97, R104 (connected with VREF), VREF is 1.55V, while Pin3 of U20 is 1.65V.
   2. remove U20, short Pin2 & Pin3, VREF is 1.52V.
   3. then, remove U10, VREF is 1.61V.
   4. then, remove U13, VREF is 1.65V.
   5. then, install U10 (100x GAIN), VREF is 1.5V ~ 1.71. VREF is changing when spinning motor. More noise found on VREF when touching motor.
      1. XPOS1\_M1: -0.2V ~ -0.4V when spinning motor.
      2. XPOS2\_M1: -0.4V ~ -0.2V when spinning motor.
      3. XPOS: -0.8V ~ 10.2V.
   6. Then, Change R61 to 2Kohm from 100ohm. XPOS gain is 6x.
      1. XPOS: 0.39V ~ 2.6V (not accurate, max is 0.2 ~ 3.15). VREF: 1.59 ~ 1.61V.
         * Vout = G x (V+in – V-in) + Vref
         * Vout = 6 \* (-/+ 0.2) + 1.65v = 2.85v ~ 0.45v.
      2. Then, install U20, VREF is fixed to 1.65V. XPOS is 0.31 ~ 3.2V. XPOS1/XPOS2:

-0.19/-0.42 ~ -0.43/-0.17V.