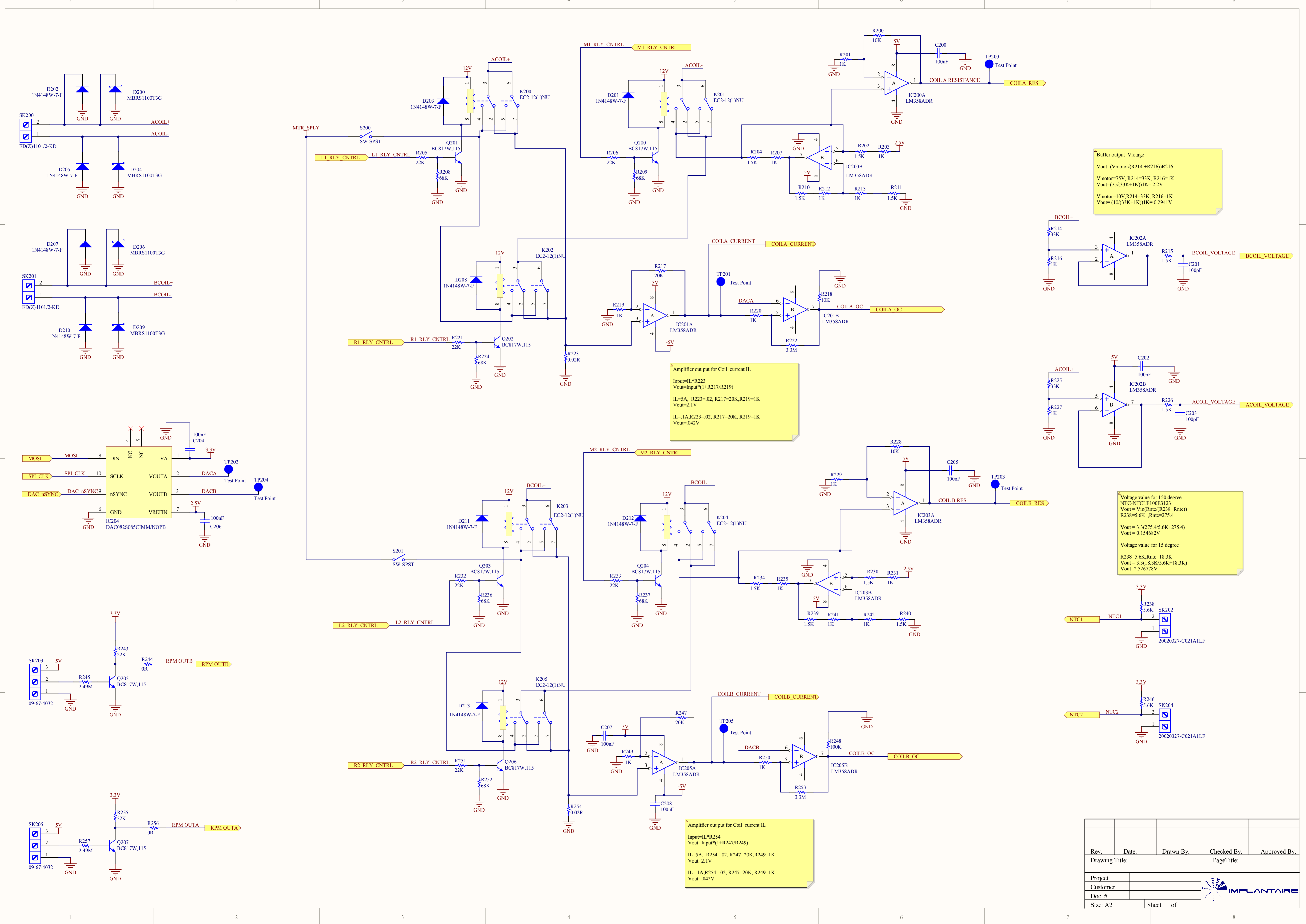


BCOIL+

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Buffer output V1oltage  
 $V_{out} = (V_{motor} / (R_{214} + R_{216})) \cdot R_{216}$   
 $V_{motor} = 75V, R_{214} = 33K, R_{216} = 1K$   
 $V_{out} = (75 / (33K + 1K)) \cdot 1K = 2.2V$   
 $V_{motor} = 10V, R_{214} = 33K, R_{216} = 1K$   
 $V_{out} = (10 / (33K + 1K)) \cdot 1K = 0.2941V$

Amplifier out put for Coil current IL  
 $Input = IL \cdot R_{223}$   
 $V_{out} = Input \cdot (1 + R_{217} / R_{219})$   
 $IL = 5A, R_{223} = 0.02, R_{217} = 20K, R_{219} = 1K$   
 $V_{out} = 2.1V$   
 $IL = 1A, R_{223} = 0.02, R_{217} = 20K, R_{219} = 1K$   
 $V_{out} = 0.42V$

Voltage value for 150 degree  
 $NTC = NTCLE100E3123$   
 $V_{out} = V_{in} \cdot (R_{238} / (R_{238} + R_{ntc}))$   
 $R_{238} = 5.6K, R_{ntc} = 275.4$   
 $V_{out} = 3.3 \cdot (275.4 / (5.6K + 275.4))$   
 $V_{out} = 0.154682V$   
 Voltage value for 15 degree  
 $R_{238} = 5.6K, R_{ntc} = 18.3K$   
 $V_{out} = 3.3 \cdot (18.3K / (5.6K + 18.3K))$   
 $V_{out} = 2.52678V$

Amplifier out put for Coil current IL  
 $Input = IL \cdot R_{254}$   
 $V_{out} = Input \cdot (1 + R_{247} / R_{249})$   
 $IL = 5A, R_{254} = 0.02, R_{247} = 20K, R_{249} = 1K$   
 $V_{out} = 2.1V$   
 $IL = 1A, R_{254} = 0.02, R_{247} = 20K, R_{249} = 1K$   
 $V_{out} = 0.42V$

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