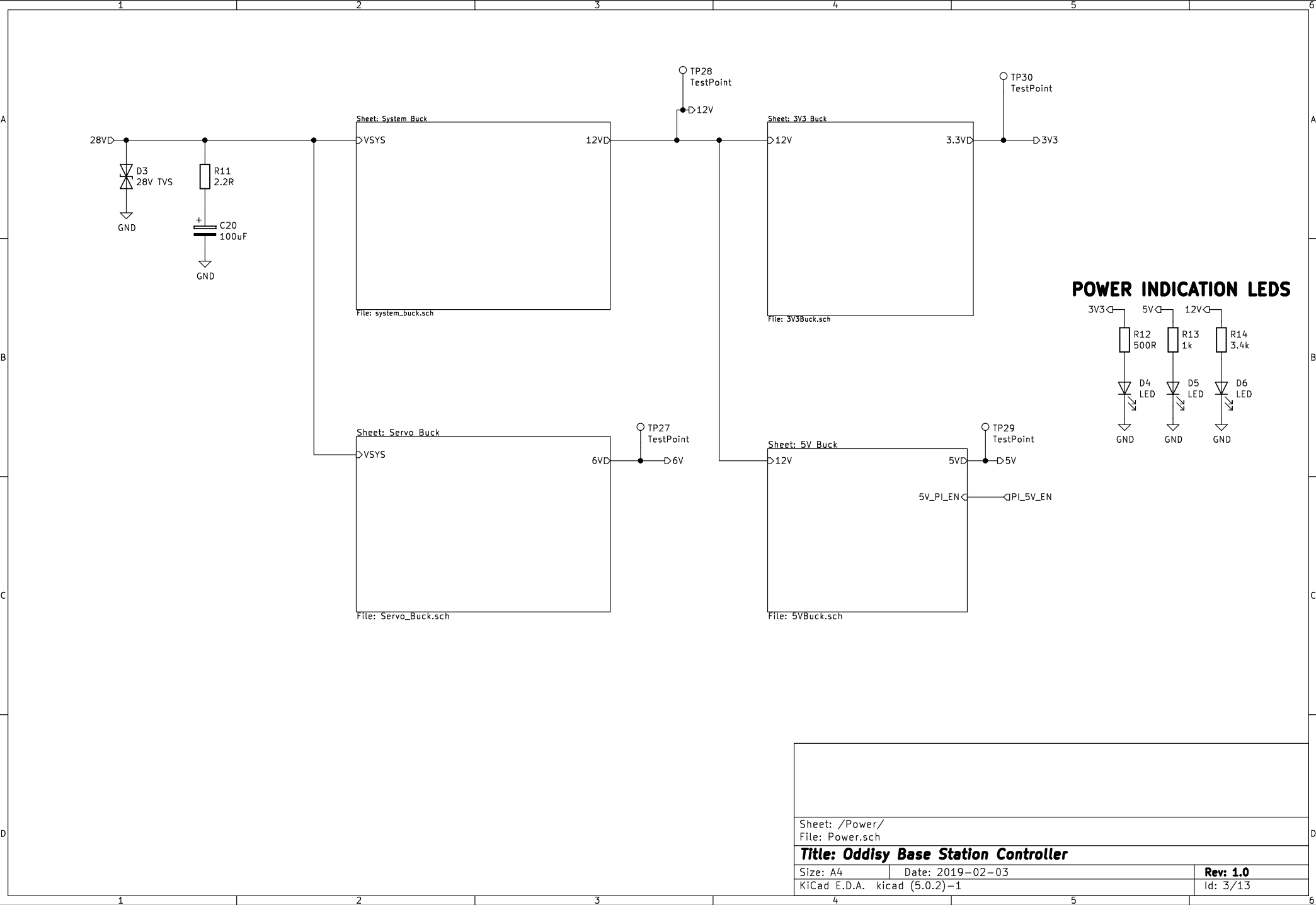


Sheet: /Stepper Driver 1/
File: stepper_driver.sch

Title: Oddisy Base Station Controller

Size: A4 Date: 2019-02-03
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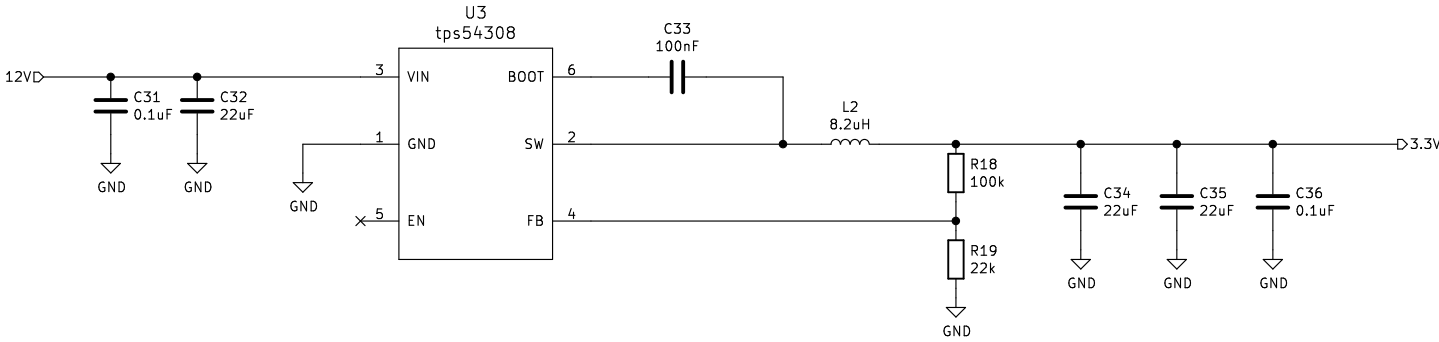
12V SYSTEM POWER BUCK CONVERTER

The schematic diagram illustrates a 12V System Power Buck Converter. The input is labeled **VIN 28V** and **VSYS**. The input filter consists of capacitors **C21** (22uF), **C22** (22uF), and **C23** (47nF) connected to ground. The **LM73606** IC (U2) has its **PVIN** pins connected to the input and its **EN** pin connected to ground via capacitor **C24** (2.2uF). The **VCC** pin is connected to the input, and the **RT** pin is connected to ground. The **SYNC/MODE** pin is connected to ground. The **PGOOD** pin is connected to the output of the buck converter via a 100k resistor (**R15**). The **FB** pin is connected to the output of the buck converter via a 9.09k resistor (**R17**). The **SS/TRK** pin is connected to ground. The **AGND**, **PGND**, and **EP** pins are connected to ground. The output of the buck converter is connected to the **SW** pin of the IC and passes through an inductor **L1** (5.6uH) and a capacitor **C25** (470nF) to the output filter. The output filter consists of capacitors **C27** (470nF), **C28** (22uF), and **C29** (22uF) connected to ground, and a large output capacitor **C30** (470uF) connected to the output. The output is labeled **D 12V**. The schematic also shows a connection for **GND** and **GND** pins.

| | | |
|---|------------------|----------|
| Sheet: /Power/System Buck/ File: system_buck.sch | | |
| Title: Oddisy Base Station Controller | | |
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3.3V BUCK CONVERTER



Sheet: /Power/3V3 Buck/
File: 3V3Buck.sch

Title: Oddisy Base Station Controller

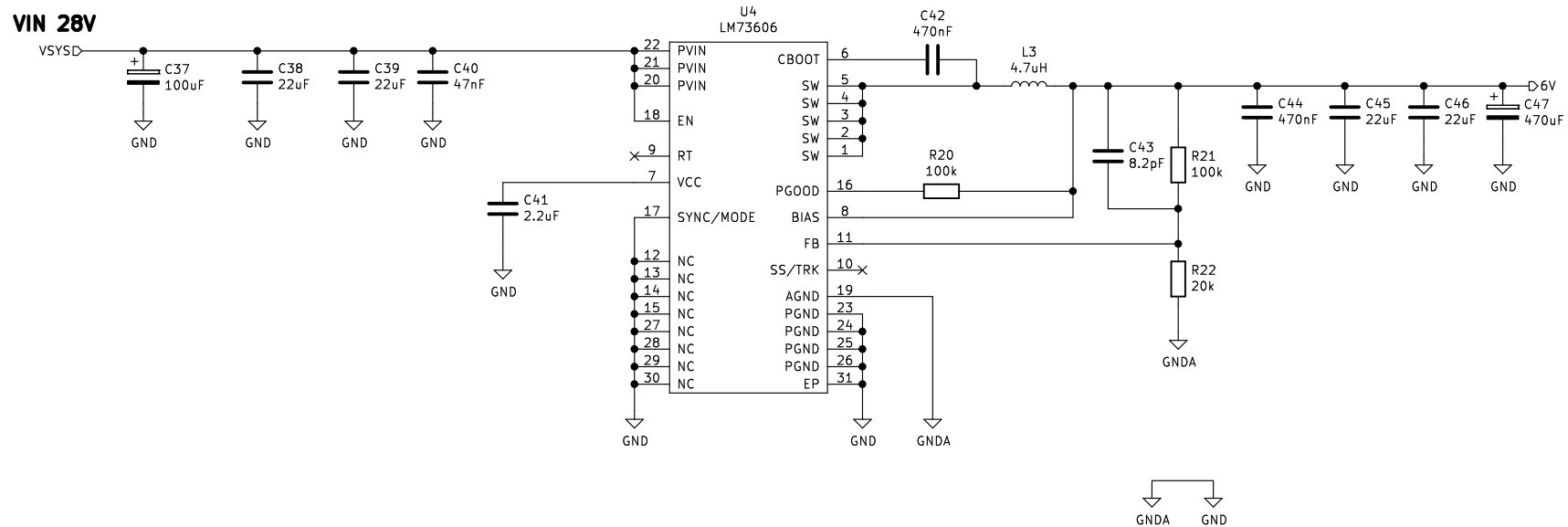
Size: A4 Date: 2019-02-03

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6V SERVO BUCK CONVERTER



Sheet: /Power/Servo Buck/
File: Servo_Buck.sch

Title: Oddisy Base Station Controller

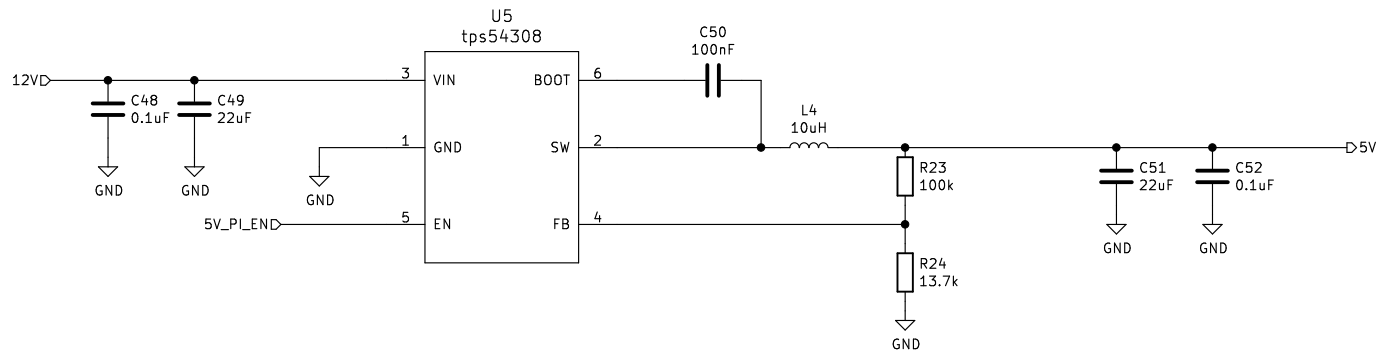
Size: A4 Date: 2019-02-03

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Rev: 1.0

Id: 6/13

PI 5V BUCK CONVERTER

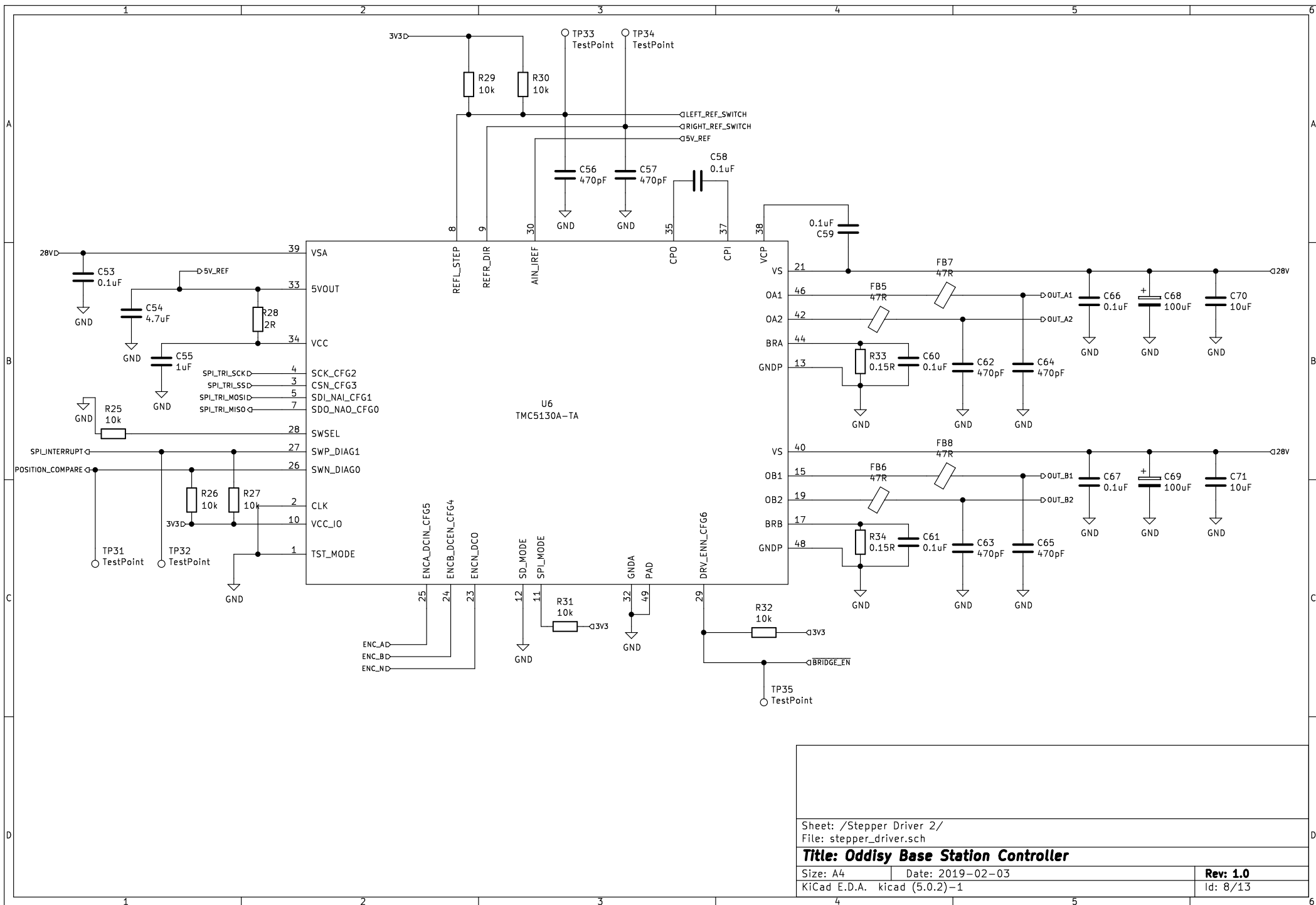


Sheet: /Power/5V Buck/
File: 5VBuck.sch

Title: Odyssey Base Station Controller

Size: A4 Date: 2019-02-03
KiCad E.D.A. kicad (5.0.2)-1

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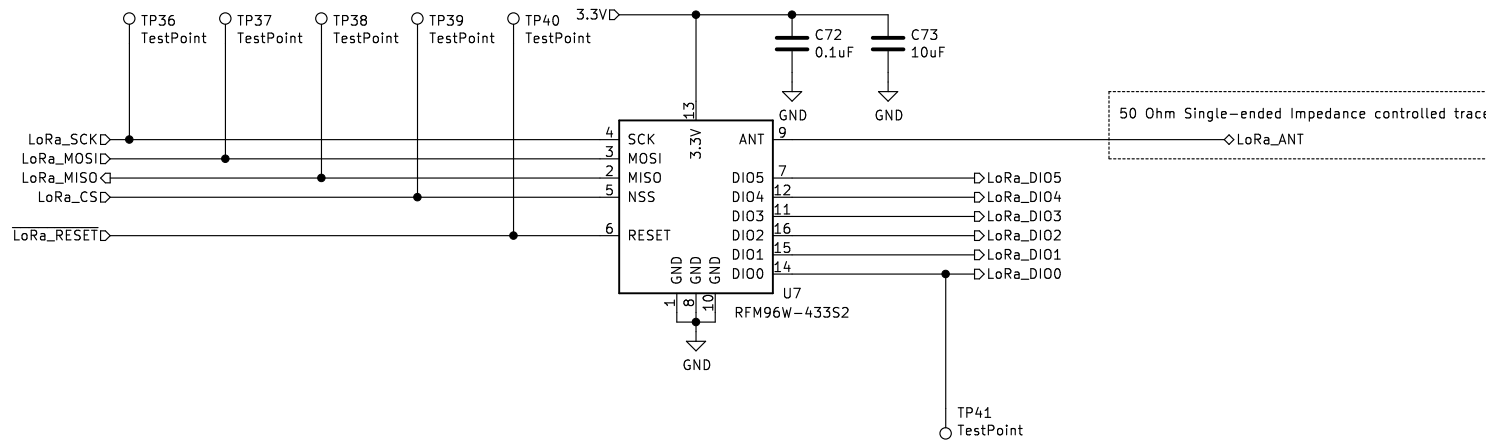
Sheet: /Stepper Driver 2/
File: stepper_driver.sch

Title: Oddisy Base Station Controller

Size: A4 Date: 2019-02-03
KiCad E.D.A. kicad (5.0.2)-1

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433MHz RF TRANSCEIVER MODULE



Sheet: /LoRa/
File: lora.sch

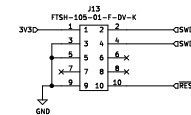
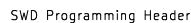
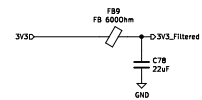
Title: Oddisy Base Station Controller

Size: A4 Date: 2019-02-03

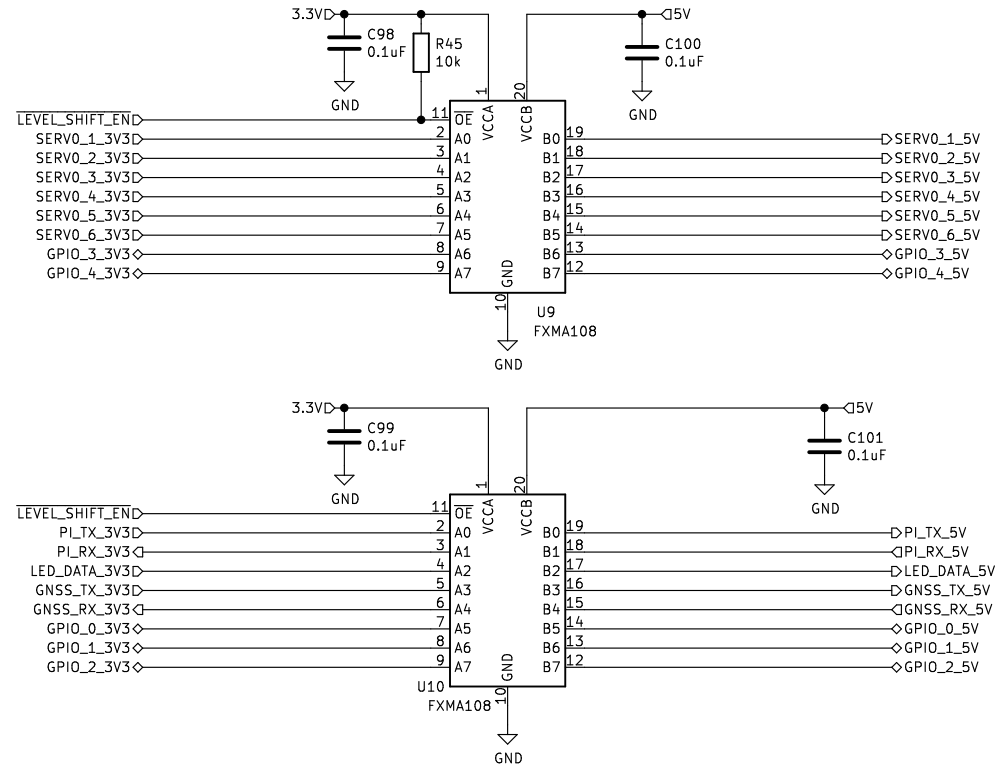
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Rev: 1.0

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LEVEL SHIFT 3.3V <----> 5V



Sheet: /Level Shifting/
File: levelShiftServo.sch

Title: Odyssey Base Station Controller

Size: A4 Date: 2019-02-03

KiCad E.D.A. kicad (5.0.2)-1

Rev: 1.0

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