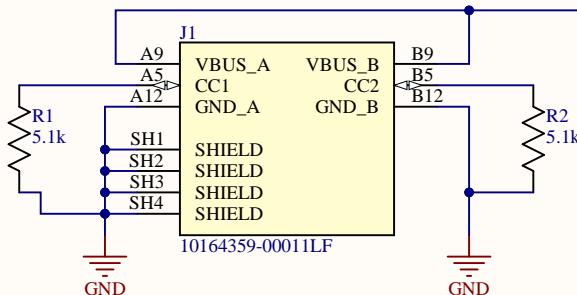
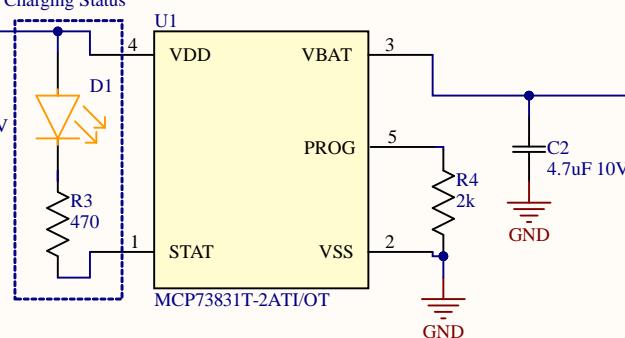


USB-C

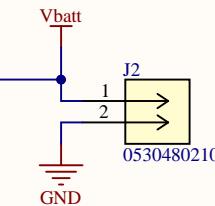
Used exclusively to charge battery.



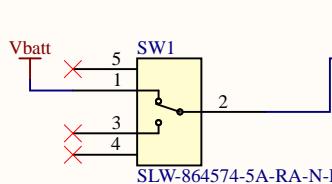
USB-C plug will be placed on edge of the PCB for access through housing.

Power Charger**Li Ion Battery**

LP384260JU+PCM+MOLEX 51021-0200 35MM



Connector will be placed on edge of the PCB to connect to battery located underneath.

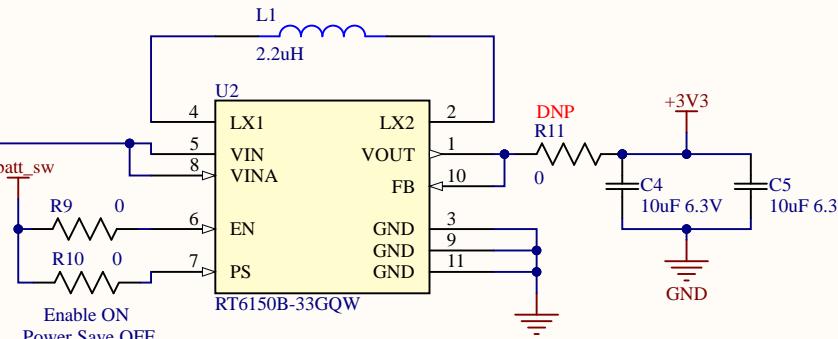
Power Switch

Switch in L position: ON
Switch in R positon: OFF

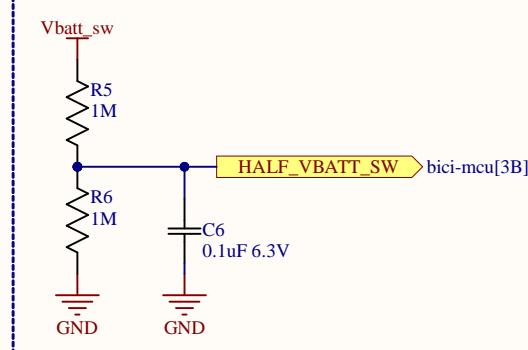
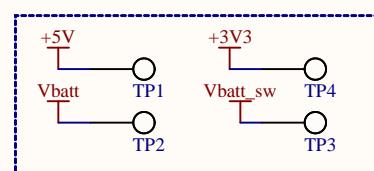
Switch will be placed on edge of the PCB for access through housing.

For best thermal performance, add vias from land area of EP to copper layer on opposite side of PCB

Power charger should be placed close to battery connector.

Buck-Boost

C3 should be placed as close as possible to Vin.
C4 and C5 should be placed as close as possible to Vout.
L1 should be connected to inductor by wide and short trace.

Low Power Detection**Test Points**

Title **Bici: Power Management**
Circuitry related to system power and charging.

Size	Number	Revision
A		V4
Date:	12/11/2025	Sheet 1 of 5
File:	C:\Users\.\bici-power.SchDoc	Drawn By: Team Bici

A

A

B

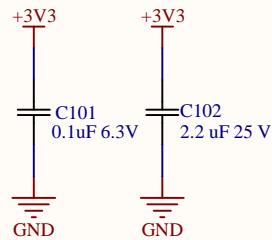
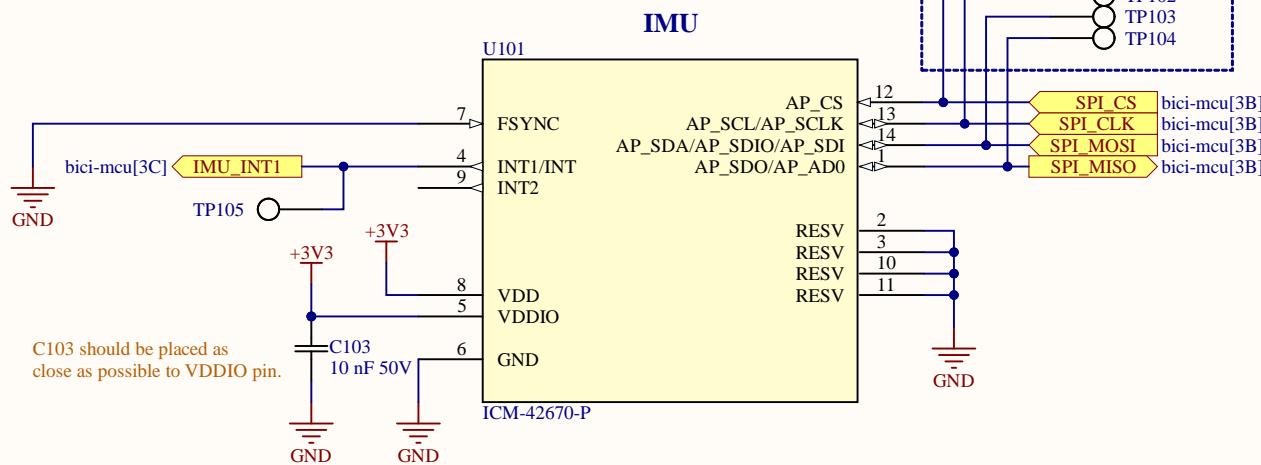
B

C

C

D

D



C101 and C102 should be placed as close as possible to VDD pin, with C101 closest to pin.

Title Bici: IMU Circuitry related to IMU.		
Size A	Number	Revision V4
Date: 12/11/2025	Sheet 2 of 5	
File: C:\Users\.\bici-imu.SchDoc	Drawn By:	Team Bici

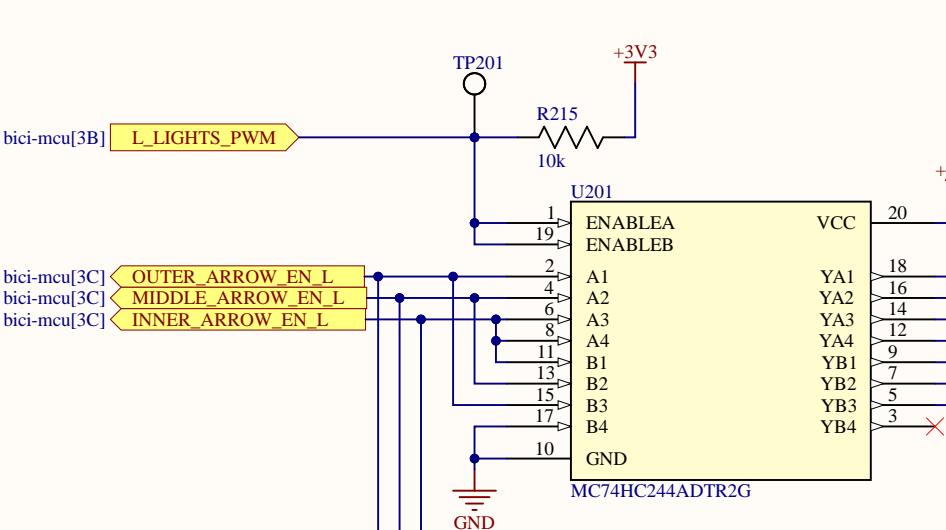
1

2

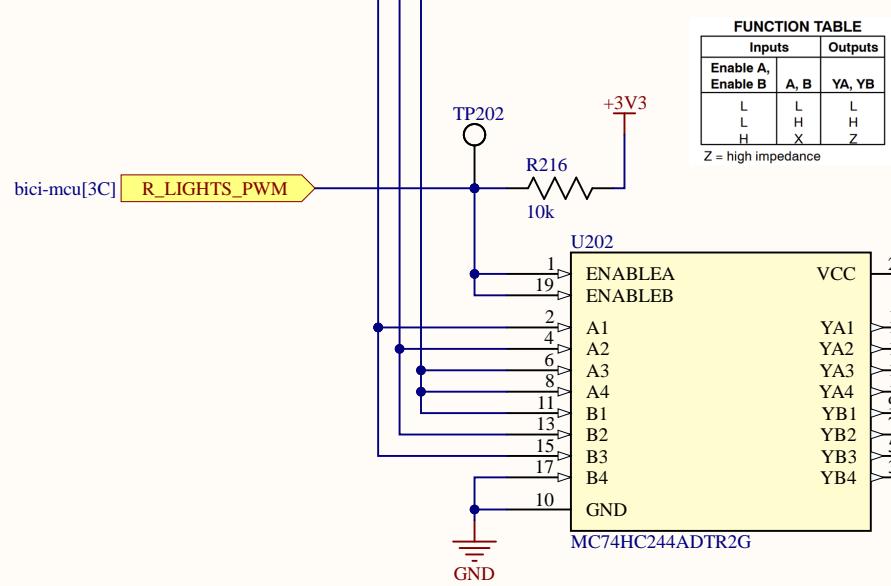
3

4

A



B



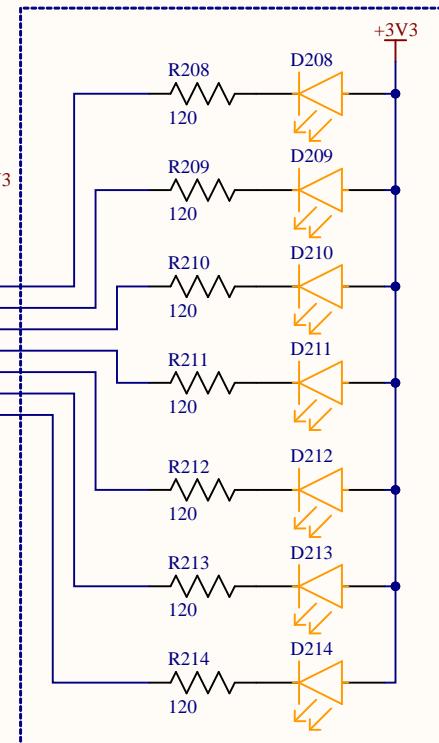
C

D

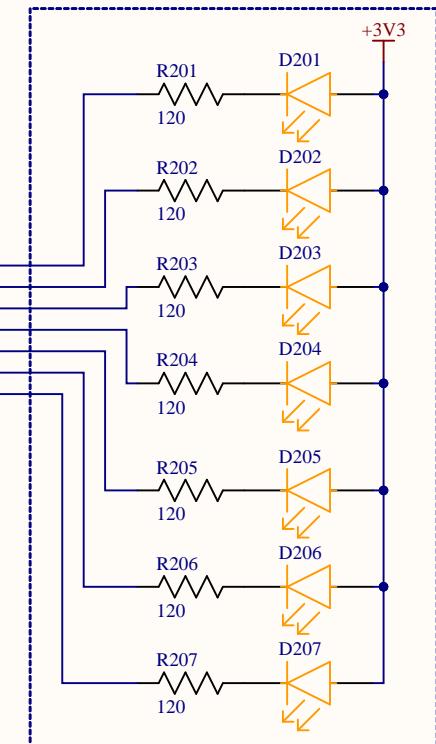


C202 should be placed as close as possible to U202 VCC pin.
C201 should be placed as close as possible to U201 VCC pin.

Right Indicator Light Circuit



Left Indicator Light Circuit



Title

Bici: Turn Signal Lights

Circuitry related to light feedback to surrounding cars.

A

A

Size

Number

Revision

V4

Date:

12/11/2025

Sheet

3 of 5

File:

C:\Users\.\bici-turn-lights.SchDoc

Drawn By:

Team Bici

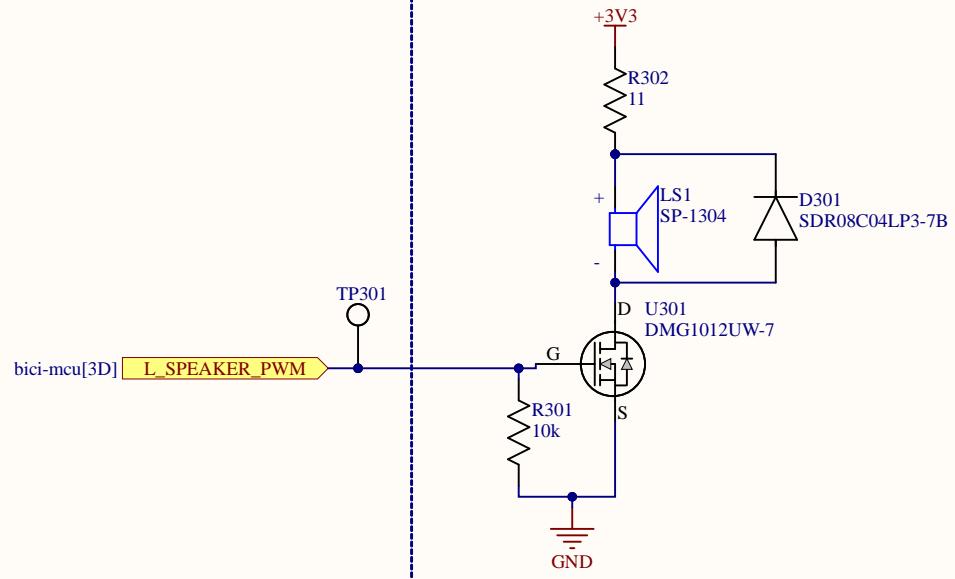
1

2

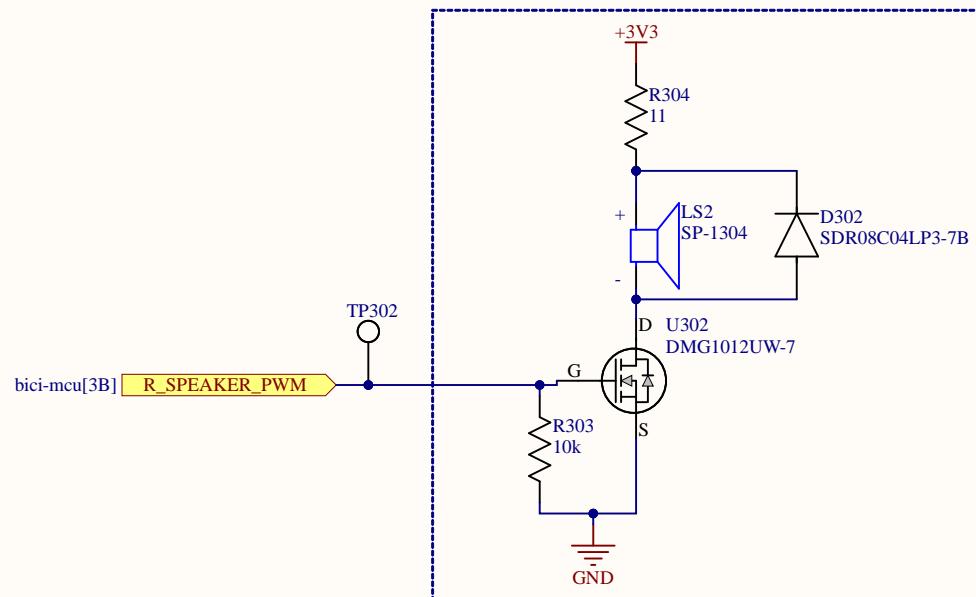
3

4

Left Indicator Audio Feedback Circuit



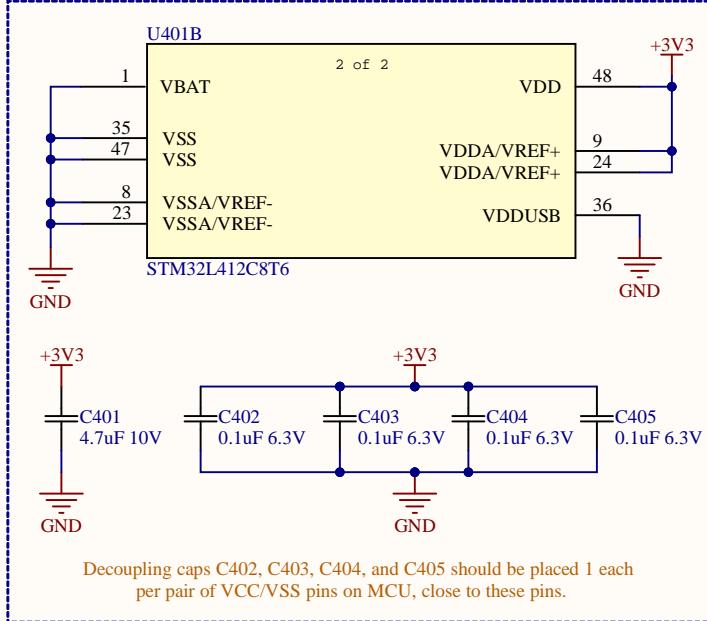
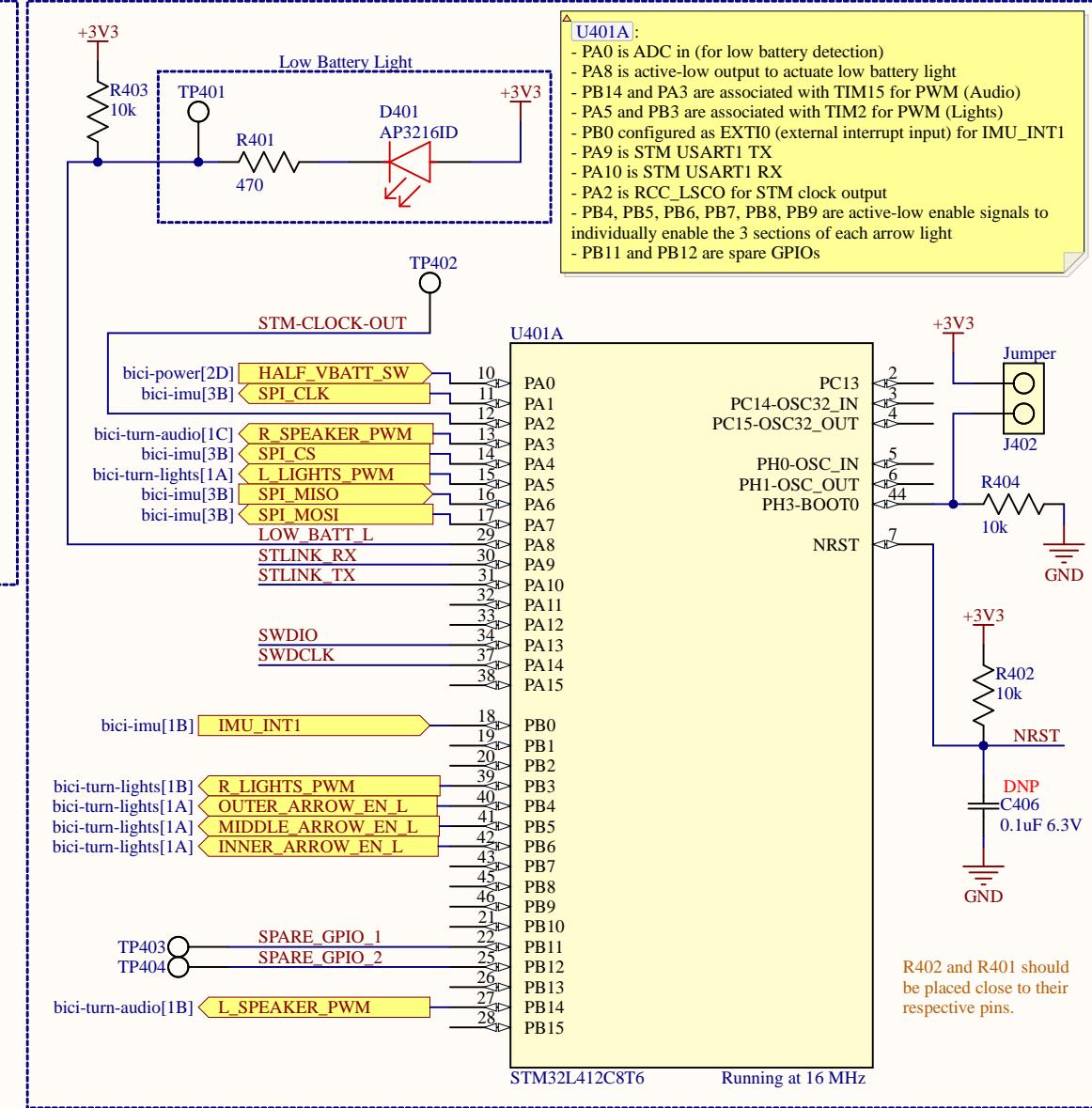
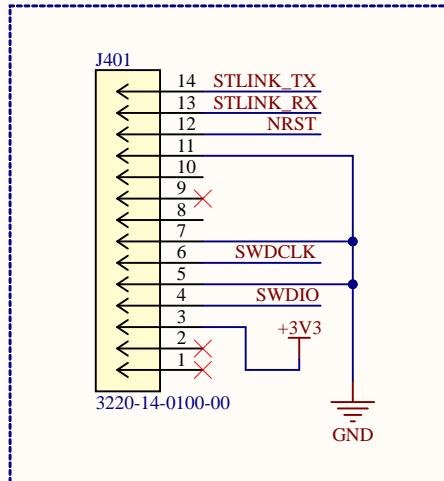
LS1 should be placed at the edge of the PCB on the left arrow point
(to accomodate speaker placement in housing).



LS2 should be placed at the edge of the PCB on the right arrow point
(to accomodate speaker placement in housing).

Right Indicator Audio Feedback Circuit

Title Bici: Turn Signal Audio Circuitry related to audio feedback to user.		
Size A	Number	Revision V4
Date: 12/11/2025	Sheet 4 of 5	
File: C:\Users\.\bici-turn-audio.SchDoc	Drawn By:	Team Bici

STM Power**STM I/O****Programming/Debugging Connector**

Title

Bici: MCU
Circuitry related to embedded MCU.

Size
A

Number

Revision
V4

Date: 12/11/2025

Sheet 5 of 5

File: C:\Users\...\bici-mcu.SchDoc

Drawn By: Team Bici

