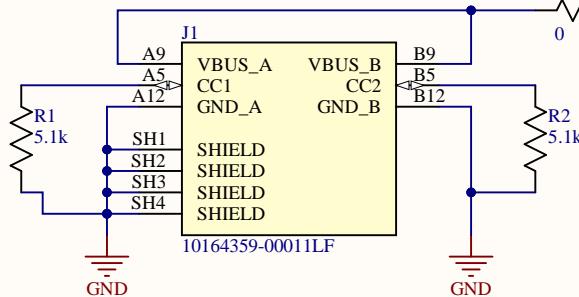
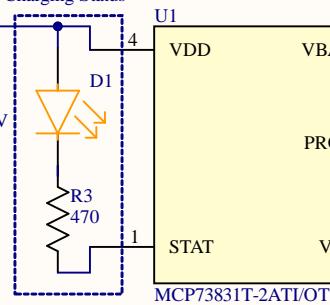


USB-C

Used exclusively to charge battery.

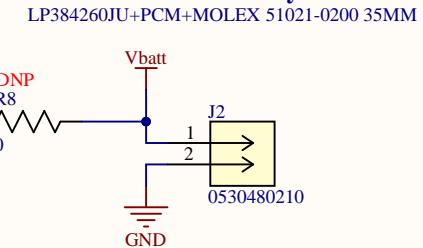


USB-C plug will be placed on edge of the PCB for access through housing.

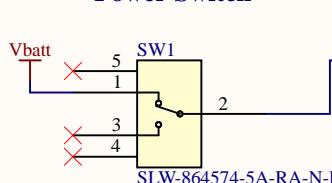
Power Charger

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

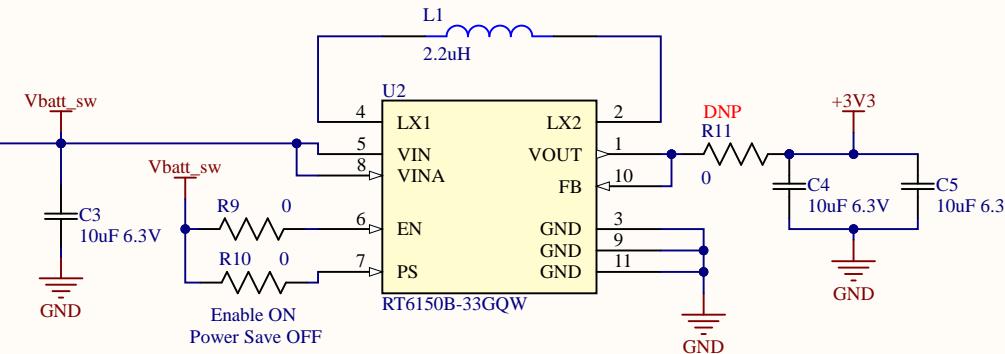
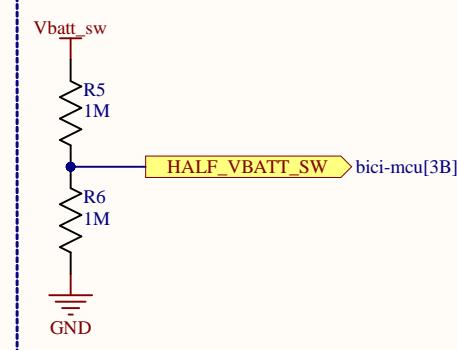
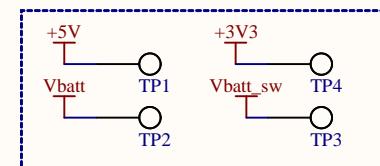
Power charger should be placed close to battery connector.

Li Ion Battery

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

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

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

Buck-BoostC3 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		V3
Date:	12/09/2025	Sheet 1 of 5
File:	C:\Users\...\bici-power.SchDoc	Drawn By: Team Bici

A

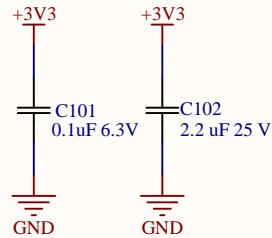
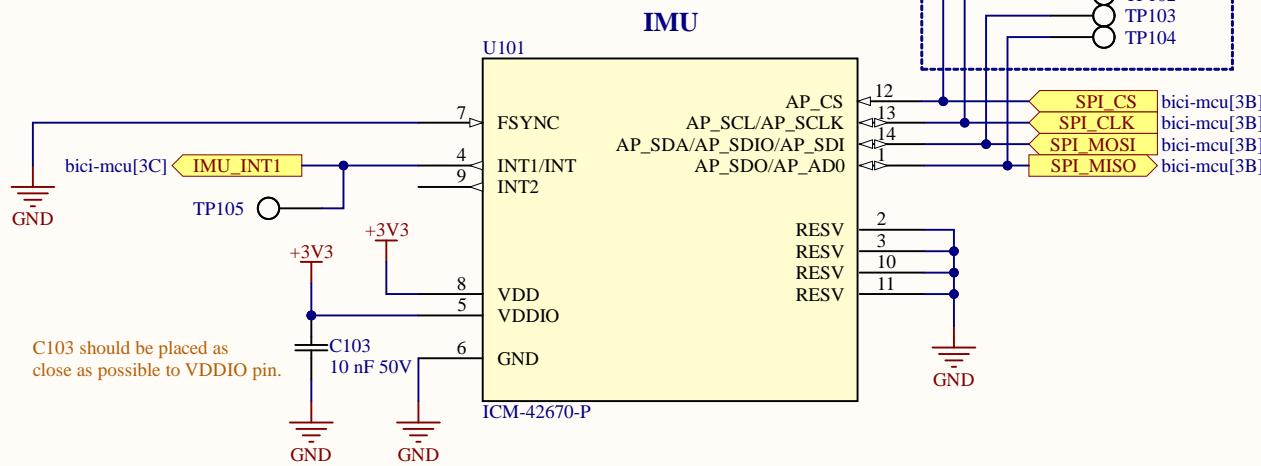
A

B

B

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 V3
Date: 12/09/2025	Sheet 2 of 5	
File: C:\Users\.\bici-imu.SchDoc	Drawn By: Team Bici	

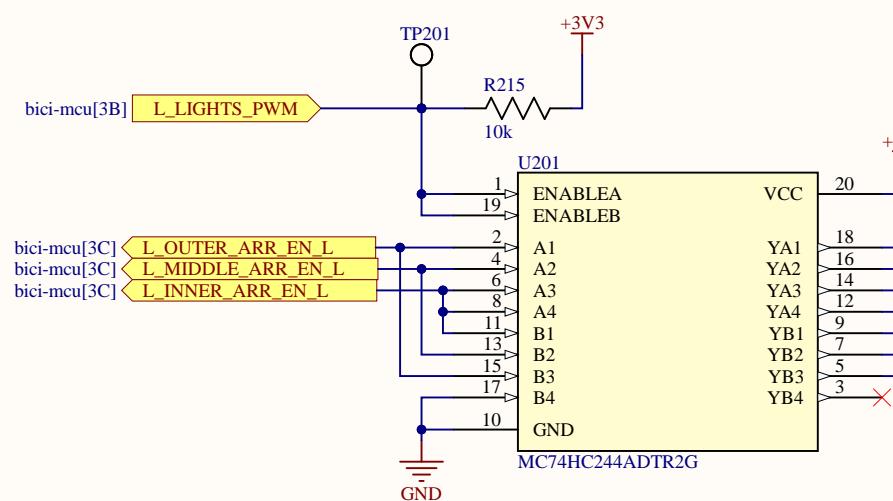
1

2

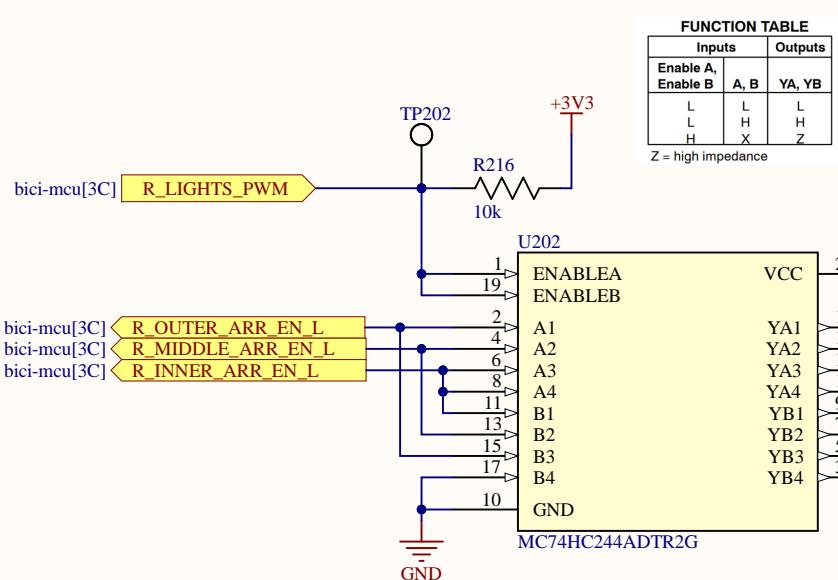
3

4

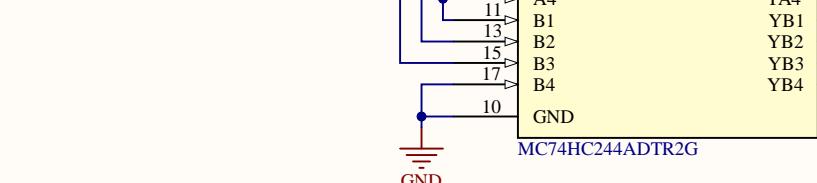
A



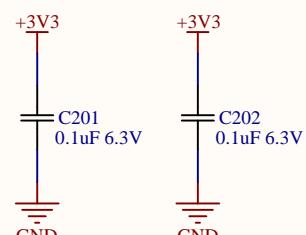
B



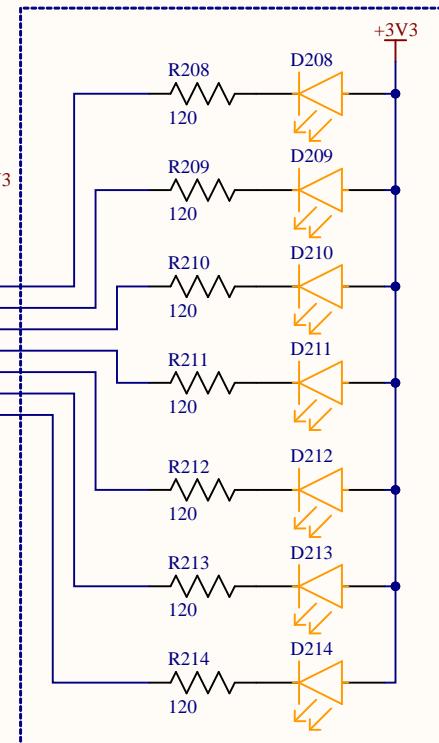
C



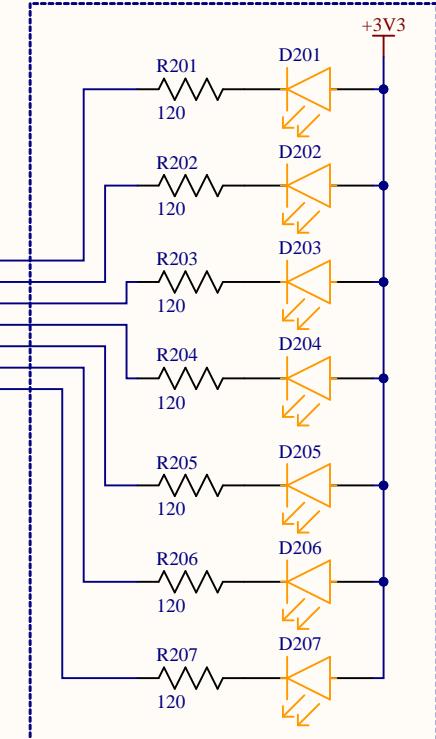
D



Right Indicator Light Circuit



Left Indicator Light Circuit



Title

Bici: Turn Signal Lights

Circuitry related to light feedback to surrounding cars.

Revision V3

Size

Number

A

Date:

12/09/2025

Sheet 3 of 5

File:

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

Drawn By: Team Bici

1

2

3

4

A

A

B

B

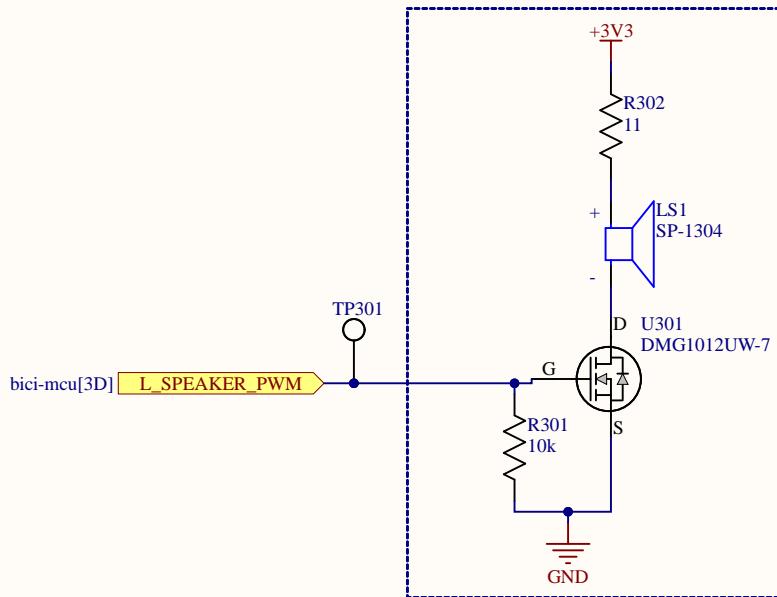
C

C

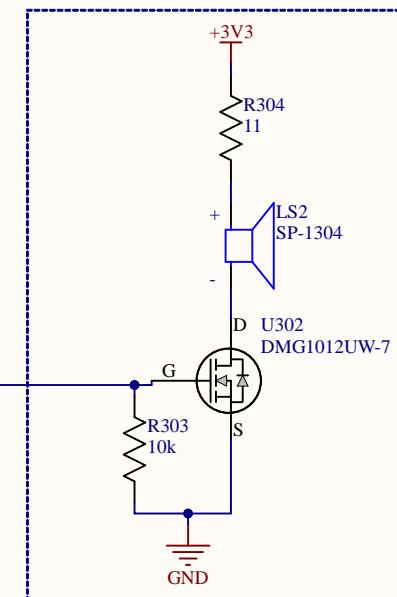
D

D

Left Indicator Audio Feedback Circuit



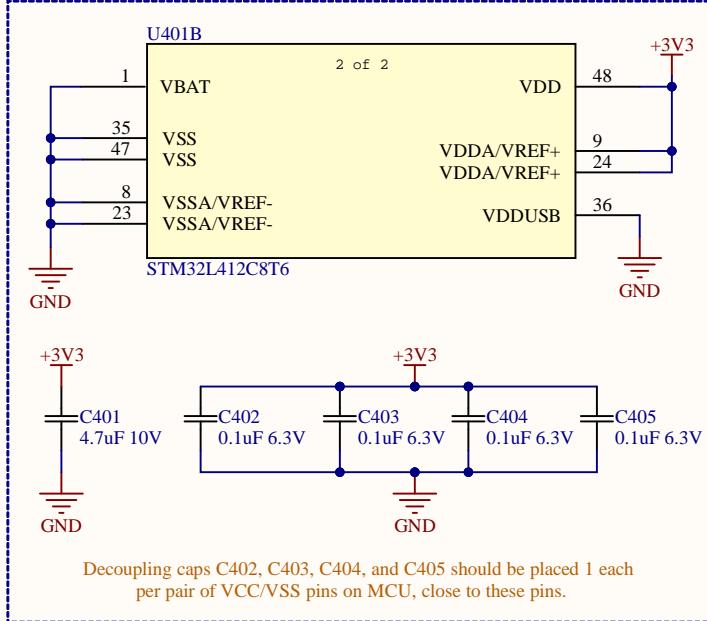
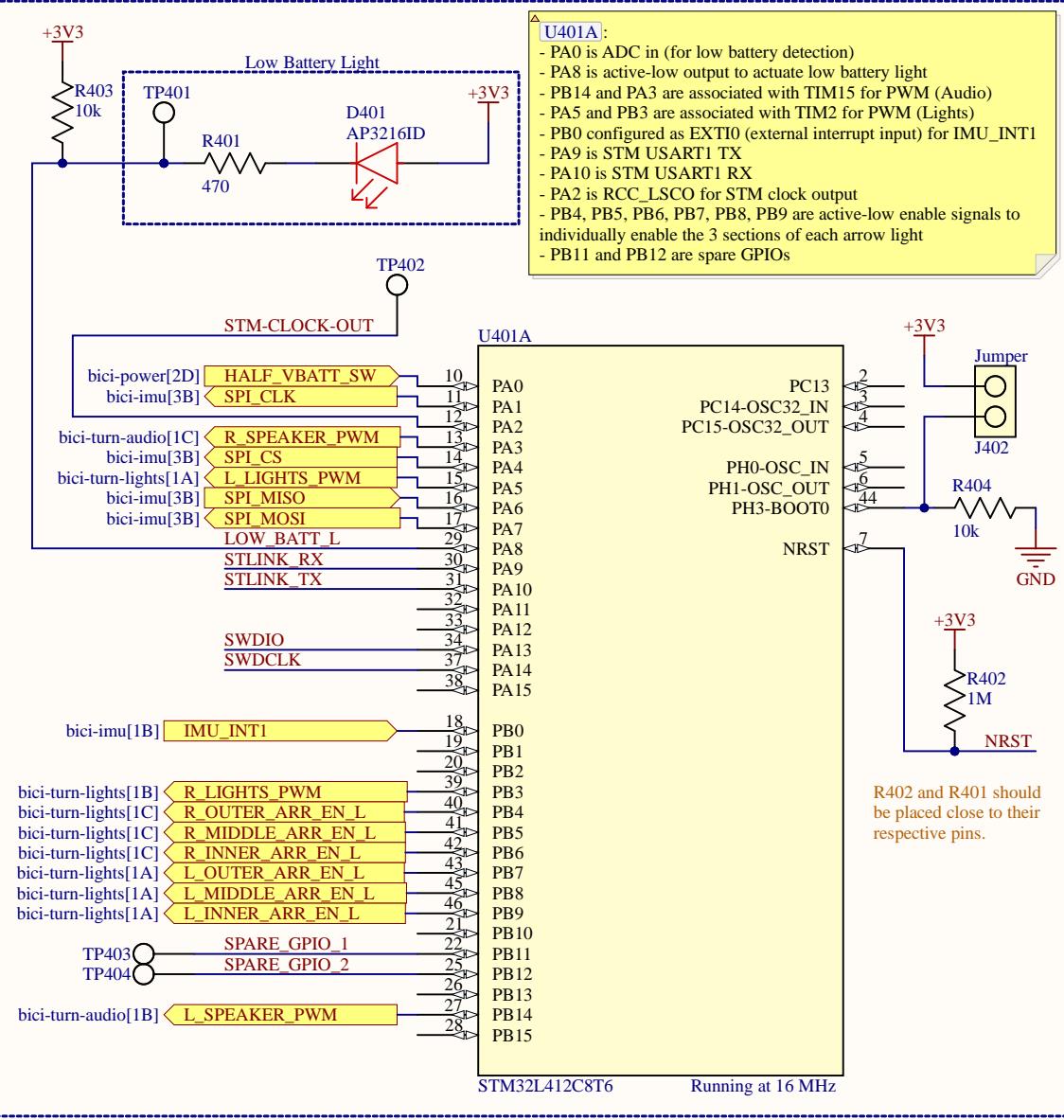
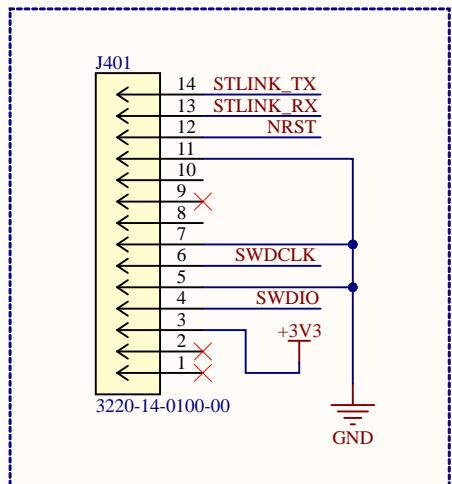
LS1 should be placed at the edge of the PCB on the left arrow point (to accomodate speaker placement in housing).



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 V3
Date: 12/09/2025	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

Number

Revision

V3

Date: 12/09/2025

Sheet 5 of 5

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

Drawn By: Team Bici

