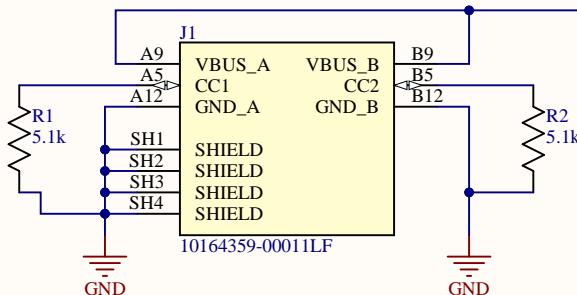
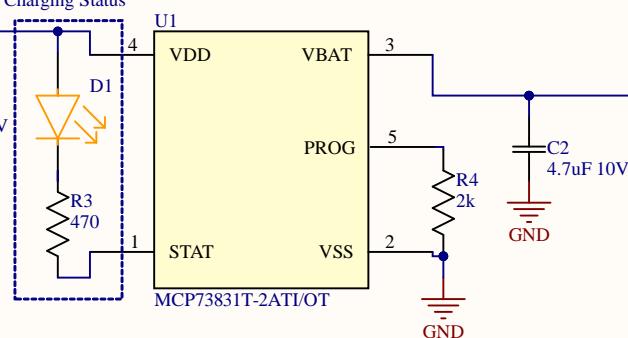


USB-C

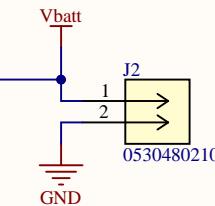
Used exclusively to charge battery.



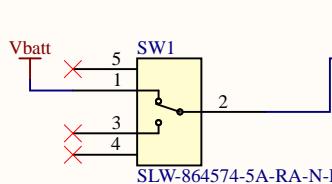
USB-C plug will be placed on edge of the PCB for access through housing.

Power Charger**Li Ion Battery**

LP384260JU+PCM+MOLEX 51021-0200 35MM

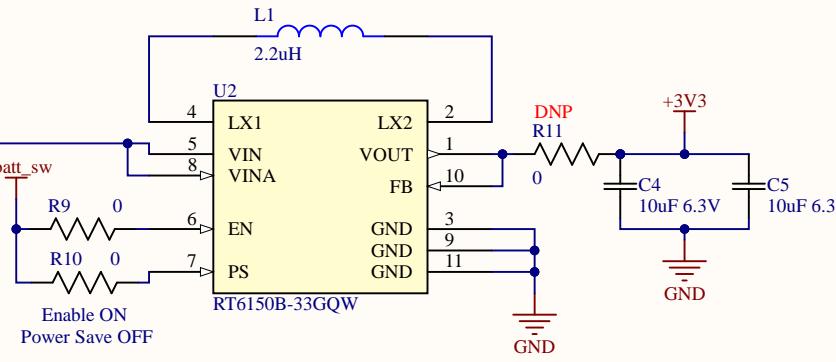


Connector will be placed on edge of the PCB to connect to battery located underneath.

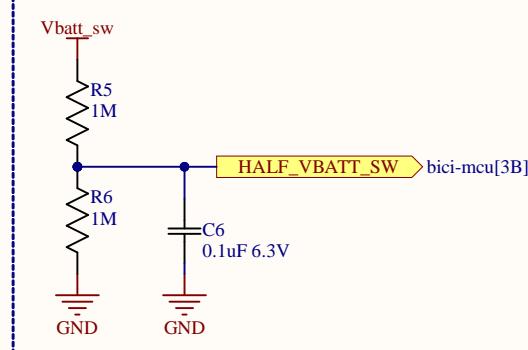
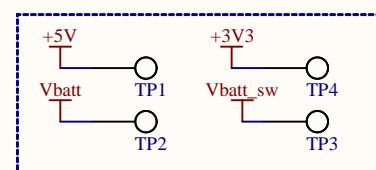
Power Switch

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

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

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

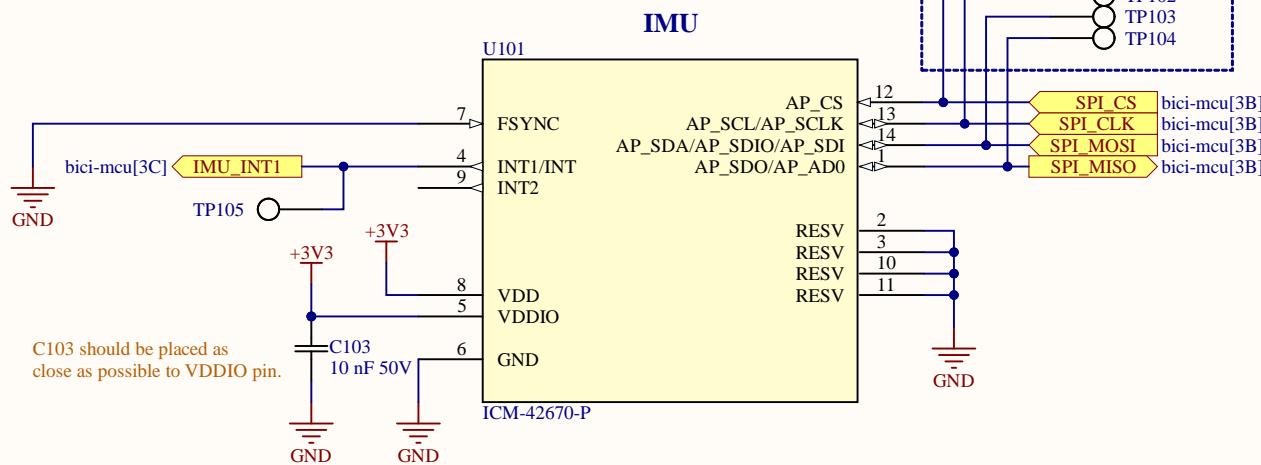
B

C

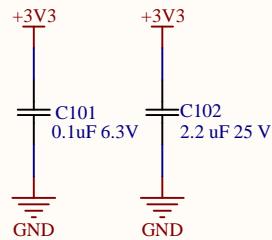
C

D

D

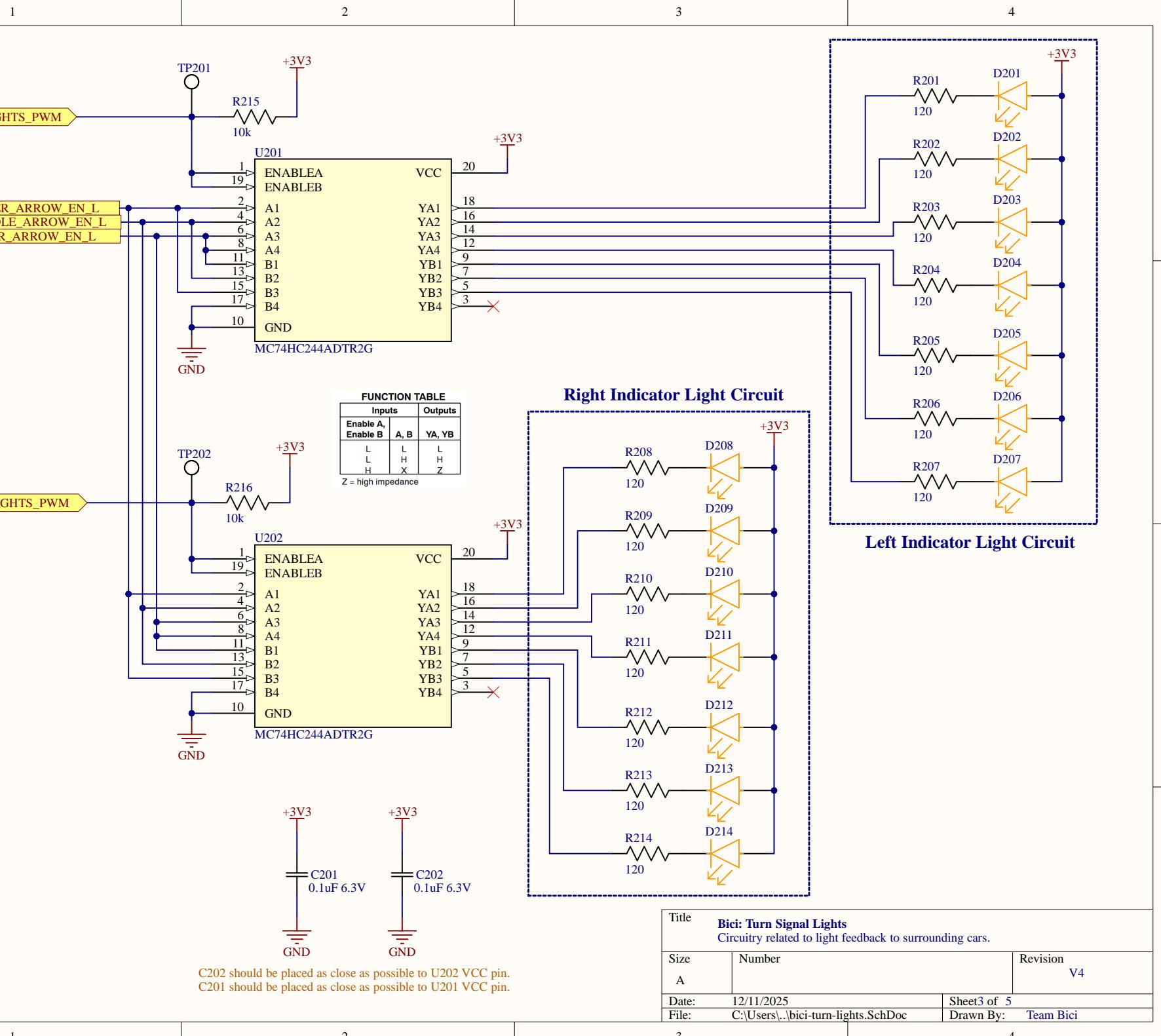


C103 should be placed as close as possible to VDDIO pin.

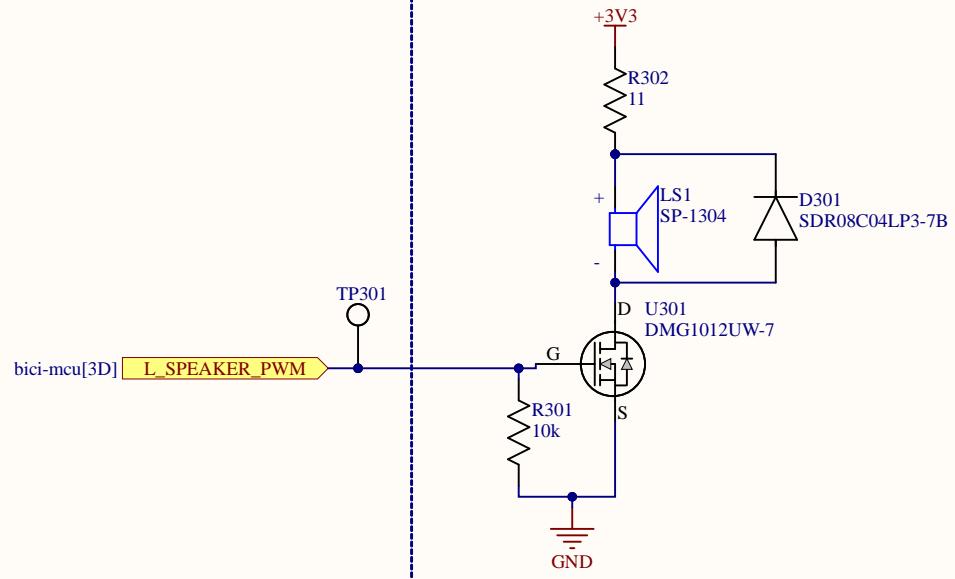


C101 and C102 should be placed as close as possible to VDD pin, with C101 closest to pin.

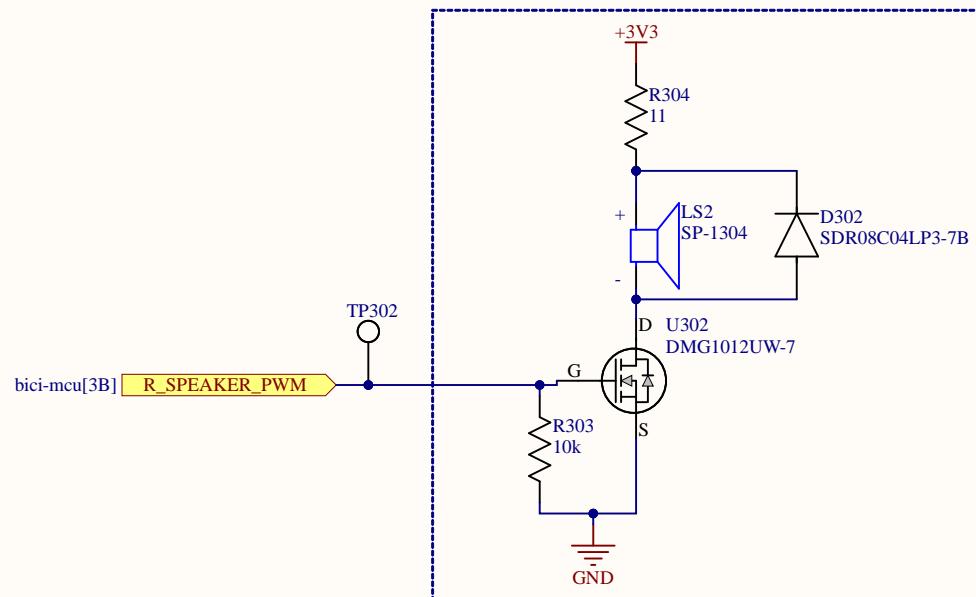
Title Bici: IMU Circuitry related to IMU.		
Size A	Number	Revision V4
Date: 12/11/2025	Sheet 2 of 5	
File: C:\Users\.\bici-imu.SchDoc	Drawn By: Team Bici	



Left Indicator Audio Feedback Circuit



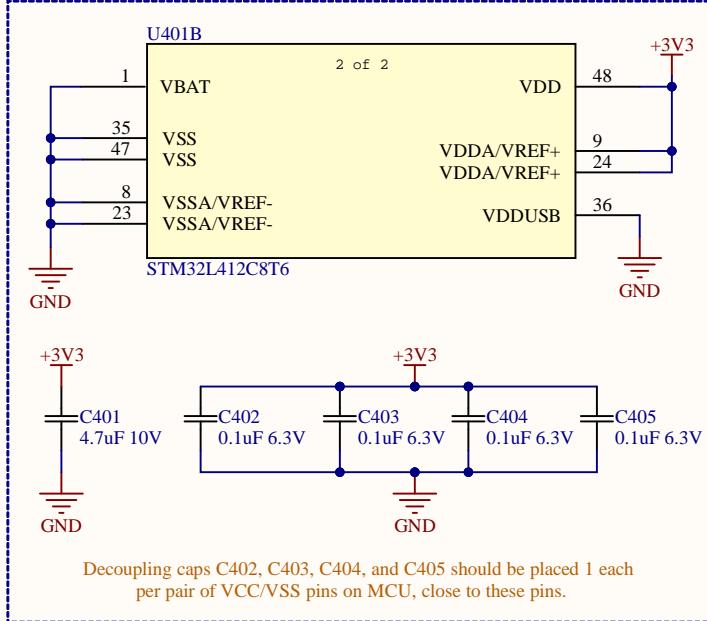
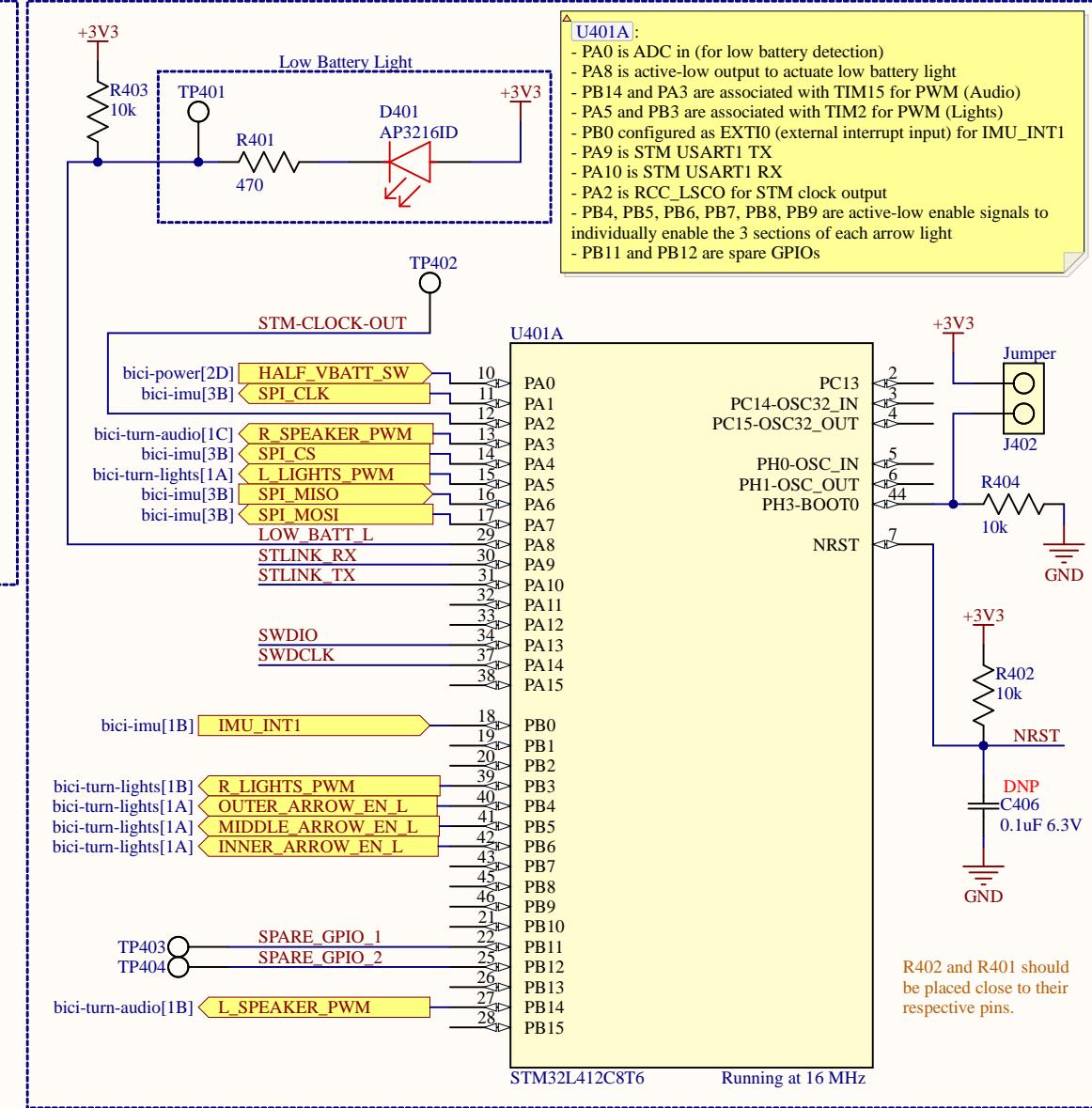
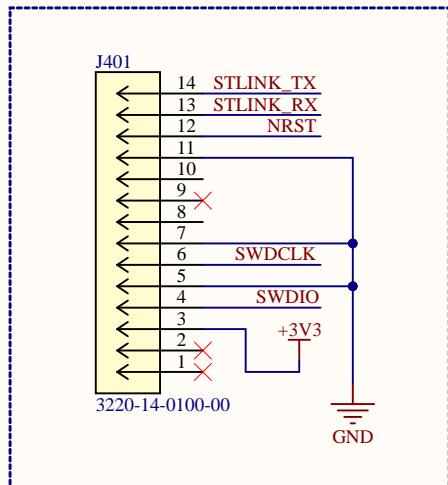
LS1 should be placed at the edge of the PCB on the left arrow point (to accomodate speaker placement in housing).



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

Revision

V4

Date:

12/11/2025

Sheet

5 of 5

File:

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

Drawn By:

Team Bici