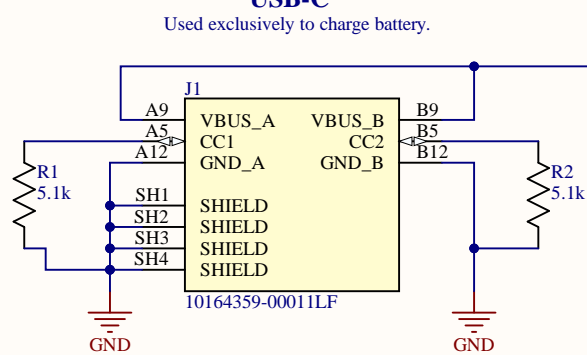


USB-C

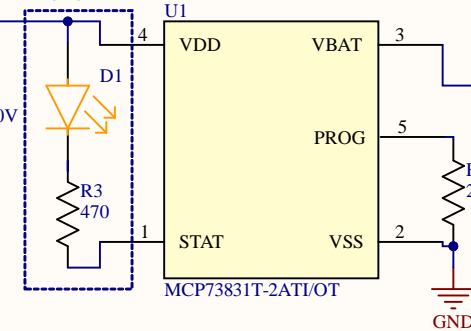
Used exclusively to charge battery.



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

Power Charger

Charging Status

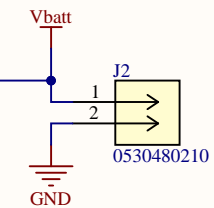


For best thermal performance, add vias from land area of EP to copper layer on opposite side of PCB

Power charger should be placed close to battery connector.

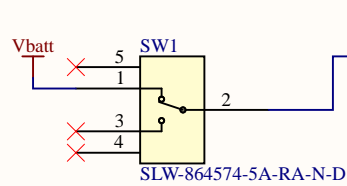
Li Ion Battery

LP384260JU+PCM+MOLEX 51021-0200 35MM



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

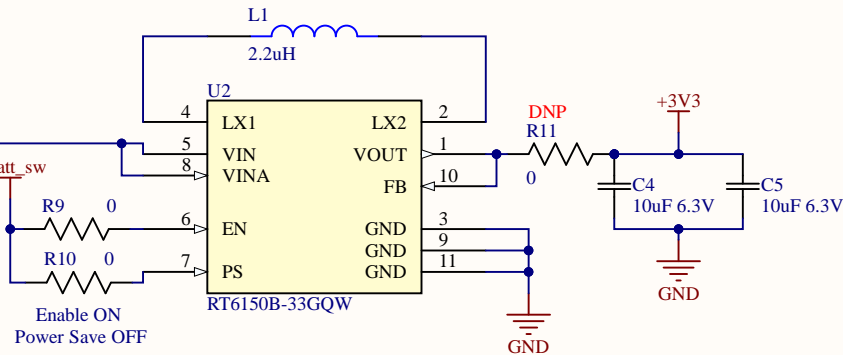
Power Switch



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

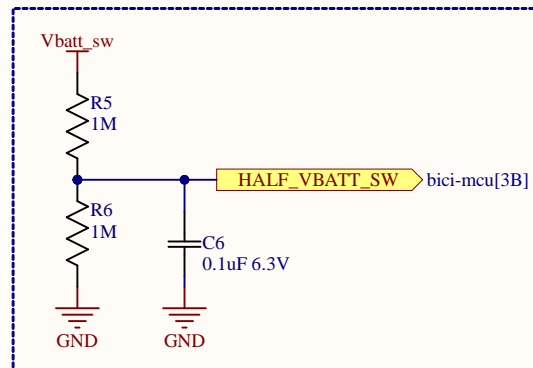
Switch will be placed on edge of the PCB for access through housing.

Buck-Boost

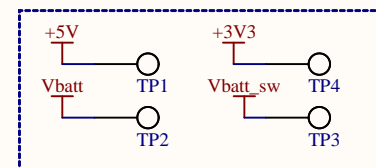


C3 should be placed as close as possible to Vin.
C4 and C5 should be placed as close as possible to Vout.
L1 should be connected to inductor by wide and short trace.

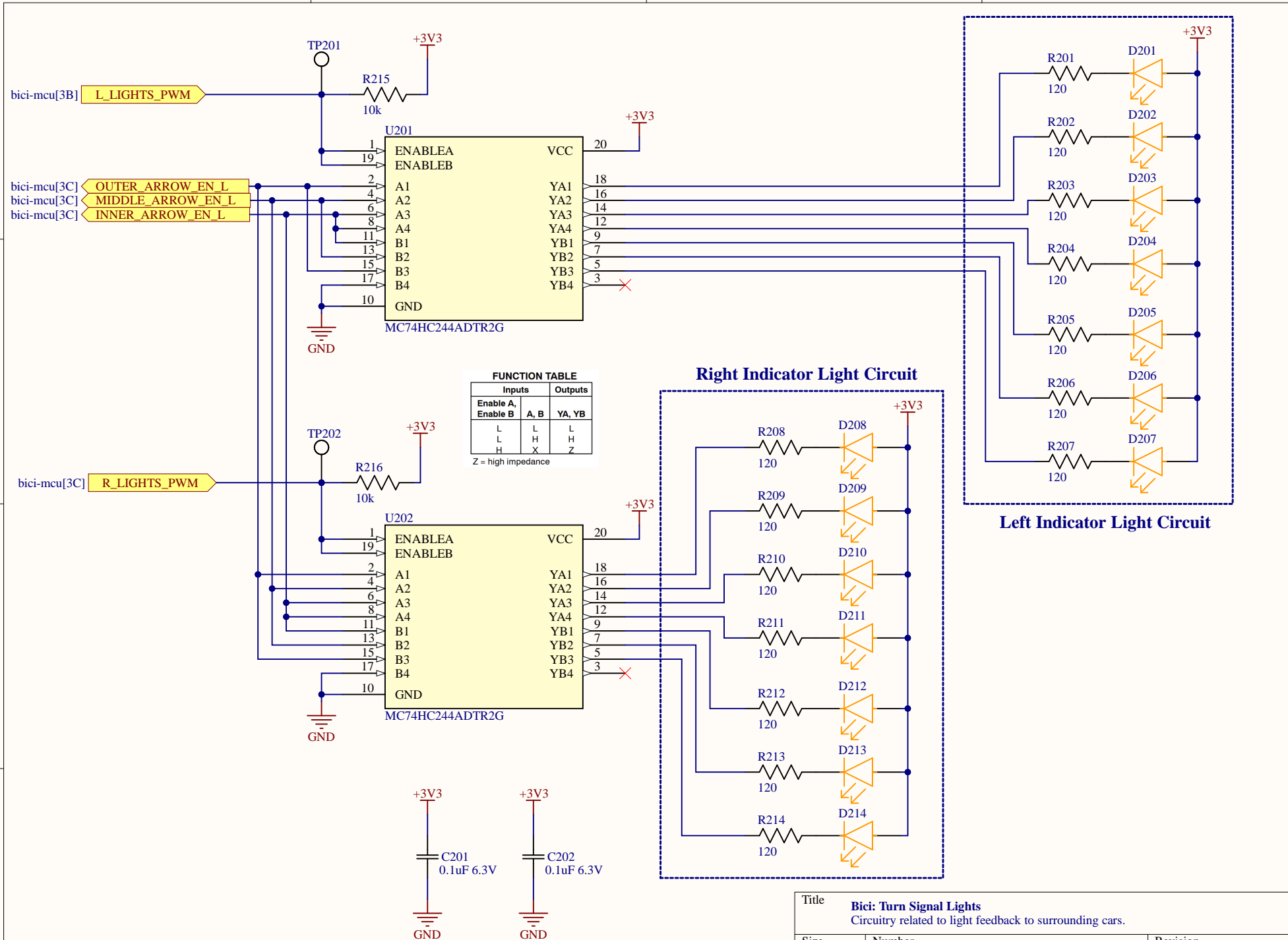
Low Power Detection



Test Points



Title		
Bici: Power Management		
Circuitry related to system power and charging.		
Size	Number	Revision
A		V4
Date:	12/11/2025	Sheet1 of 5
File:	C:\Users\...\bici-power.SchDoc	Drawn By: Team Bici



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

Title		
Bici: Turn Signal Lights		
Circuitry related to light feedback to surrounding cars.		
Size	Number	Revision
A		V4
Date:	12/11/2025	Sheet3 of 5
File:	C:\Users\...\bici-turn-lights.SchDoc	Drawn By: Team Bici

A

B

C

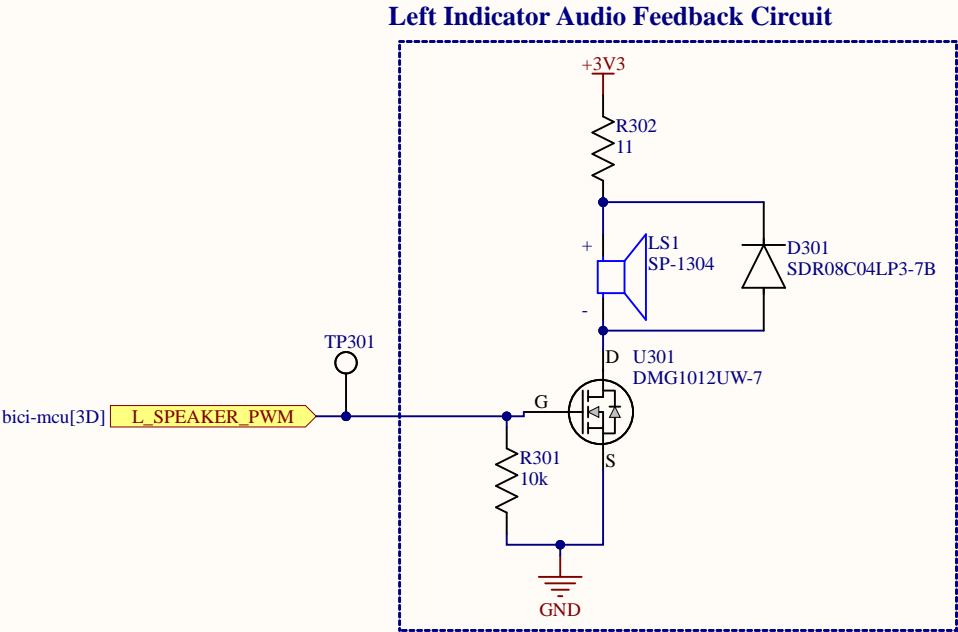
D

A

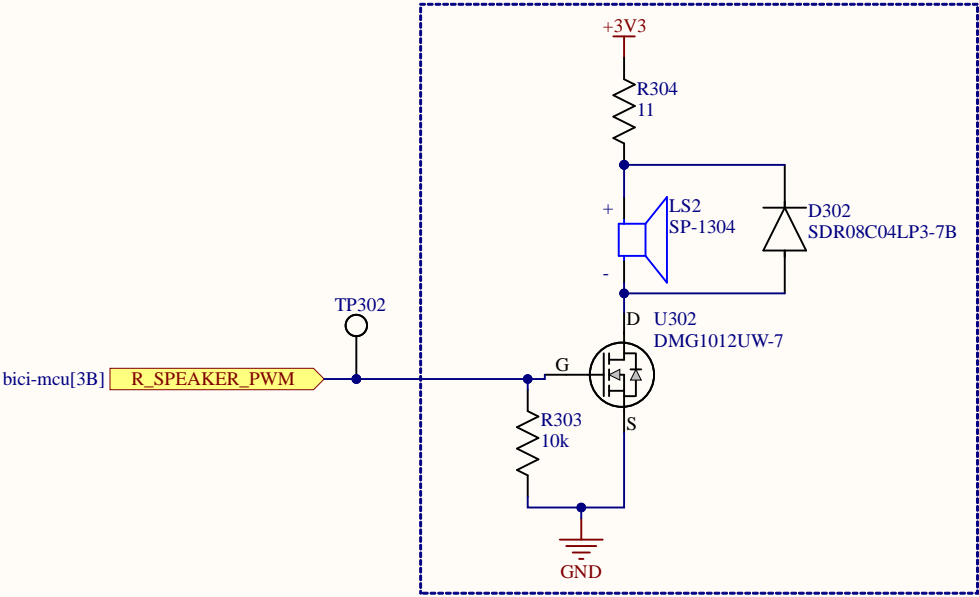
B

C

D



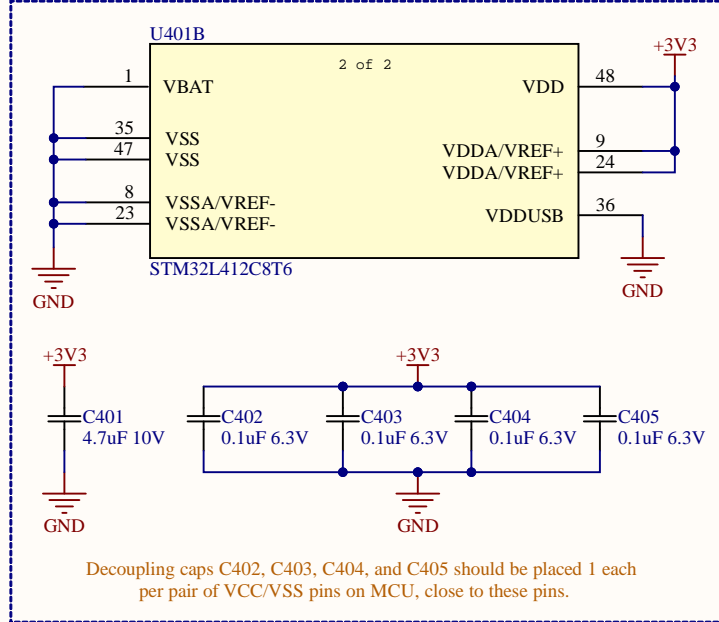
LS1 should be placed at the edge of the PCB on the left arrow point (to accomodate speaker placement in housing).



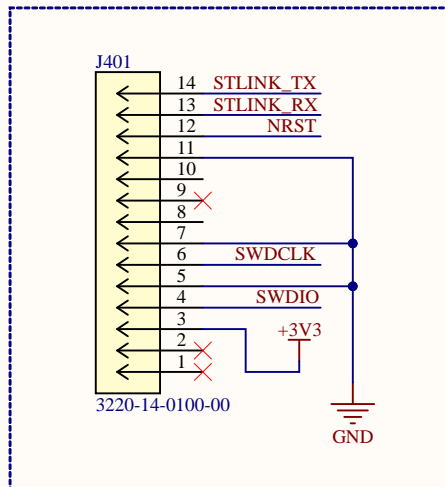
LS2 should be placed at the edge of the PCB on the right arrow point (to accomodate speaker placement in housing).

Title			Bici: Turn Signal Audio Circuitry related to audio feedback to user.	
Size	Number		Revision	
A			V4	
Date:	12/11/2025		Sheet4 of 5	
File:	C:\Users\...\bici-turn-audio.SchDoc		Drawn By: Team Bici	

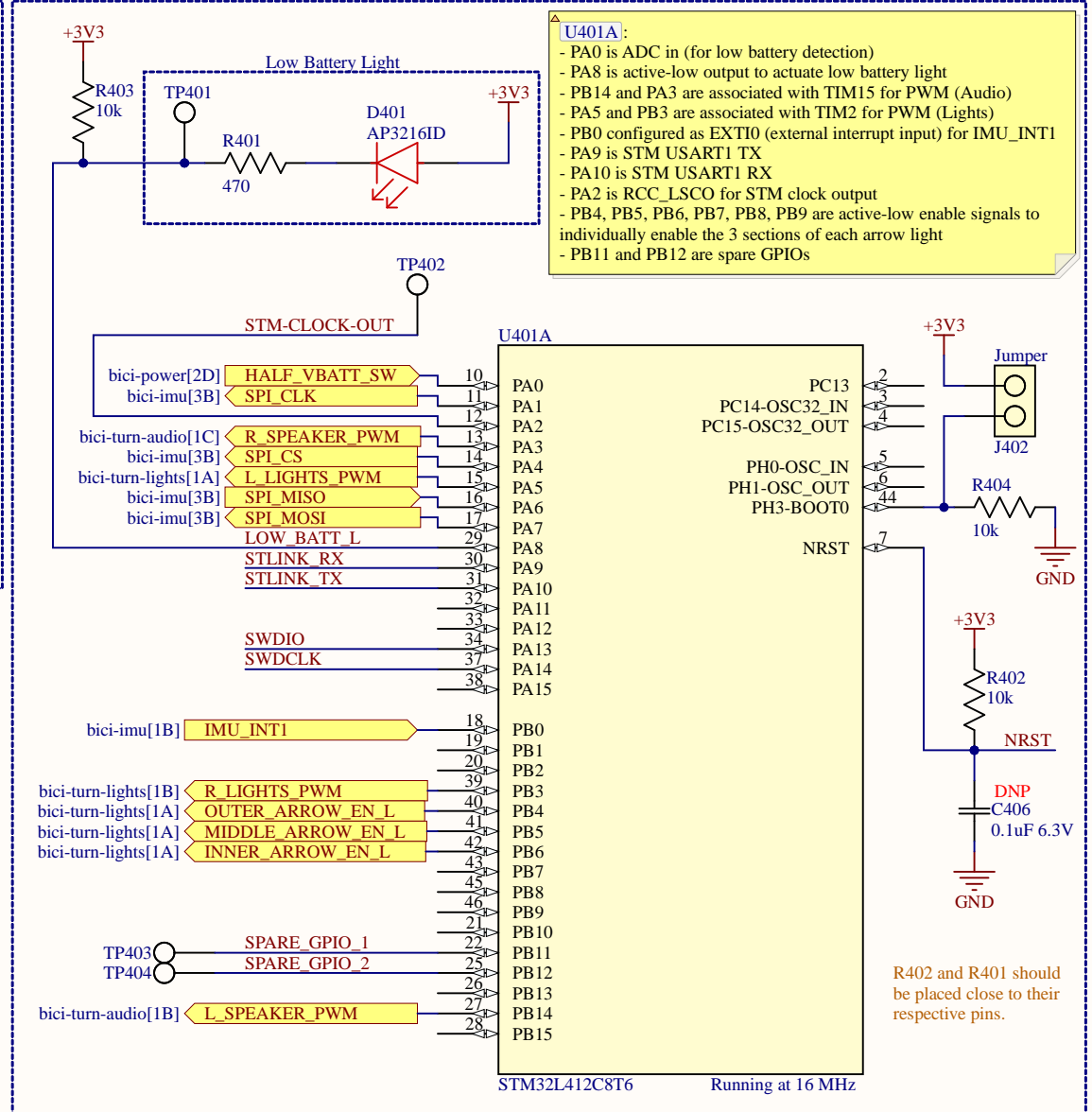
STM Power



Programming/Debugging Connector



STM I/O



Title			Bici: MCU	
			Circuitry related to embedded MCU.	
Size	Number		Revision	
A			V4	
Date:	12/11/2025		Sheet5 of 5	
File:	C:\Users\...\bici-mcu.SchDoc		Drawn By: Team Bici	

