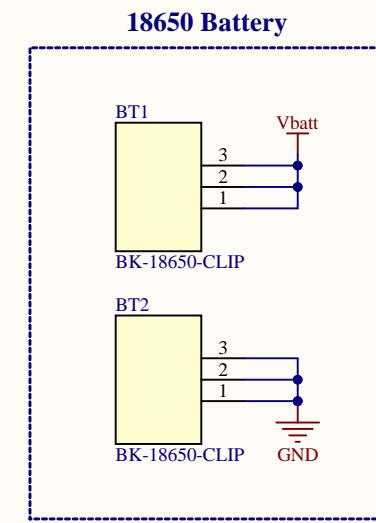
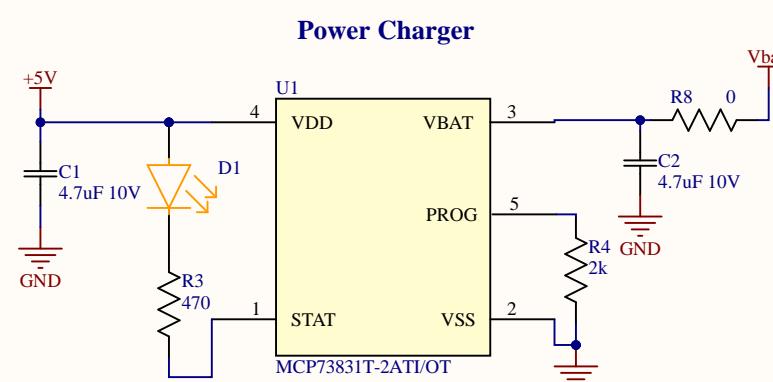
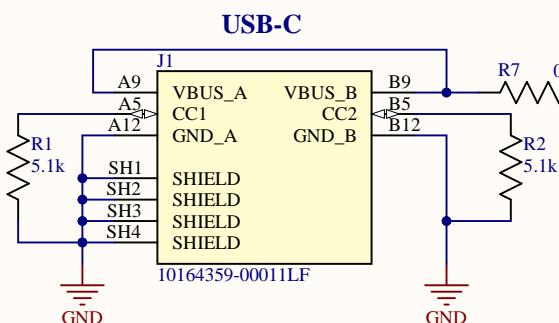
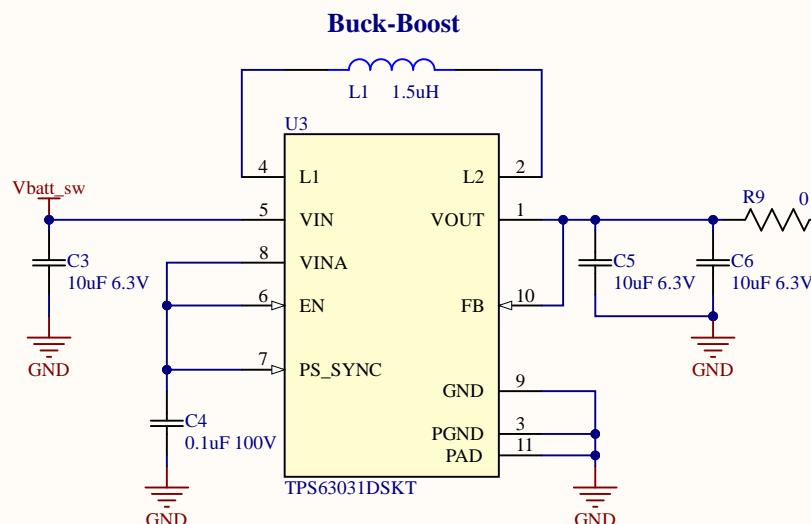
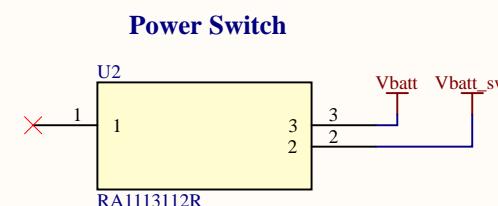


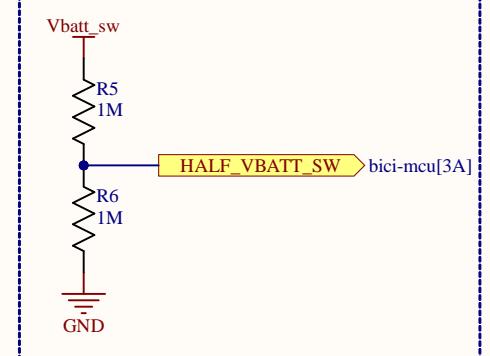
A



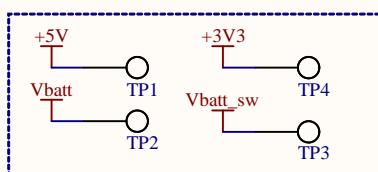
B



### Low Power Detection



D



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

Size	Number	Revision
A		V2

Date:	11/17/2025	Sheet 1 of 5
File:	C:\Users\...\bici-power.SchDoc	Drawn By: Team Bici

A

A

B

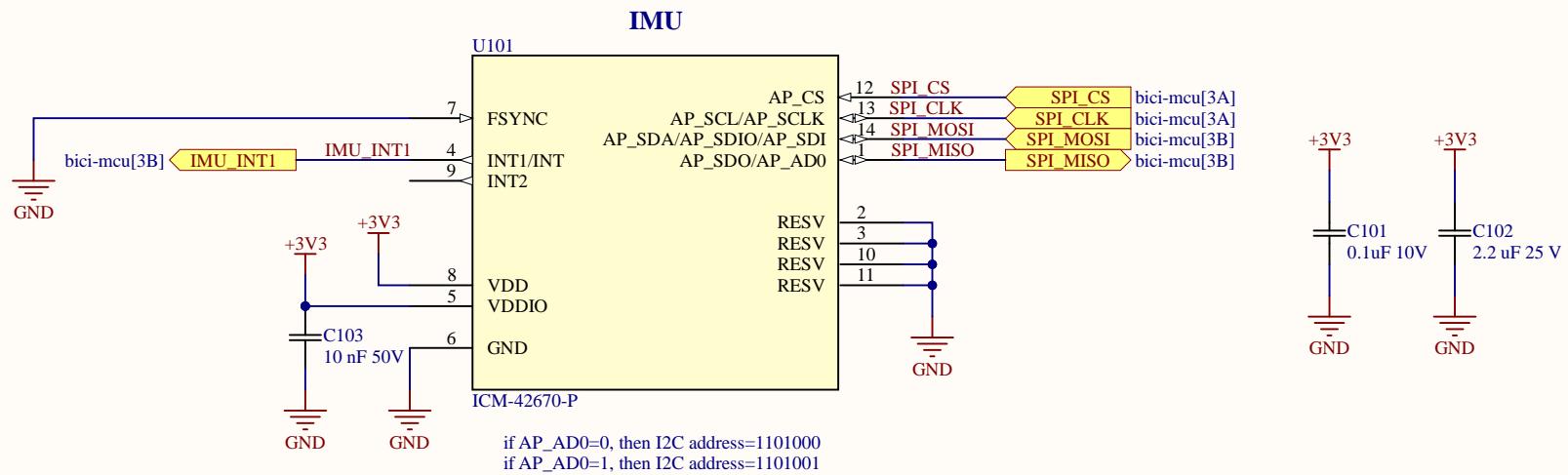
B

C

C

D

D



### Test Points

SPI_CS	TP101
SPI_CLK	TP102
SPI_MOSI	TP103
SPI_MISO	TP104
IMU_INT1	TP105

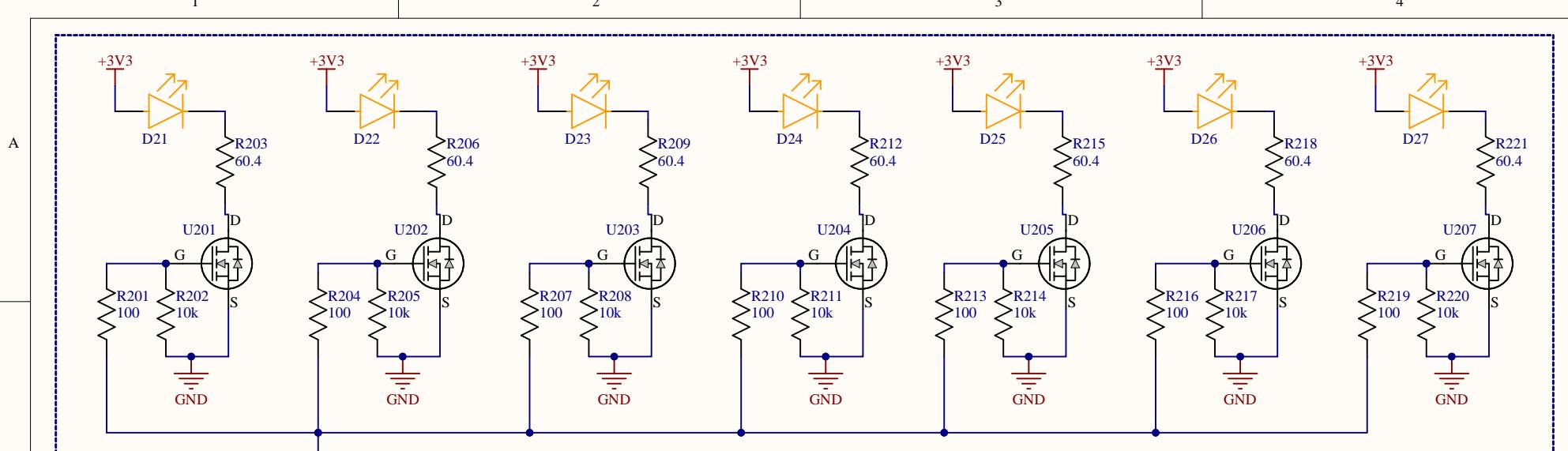
Title <b>Bici: IMU</b> Circuitry related IMU.		
Size A	Number	Revision V2
Date: 11/17/2025	Sheet 2 of 5	
File: C:\Users\.\bici-imu.SchDoc	Drawn By: Team Bici	

1

2

3

4



Left Indicator Light Circuit

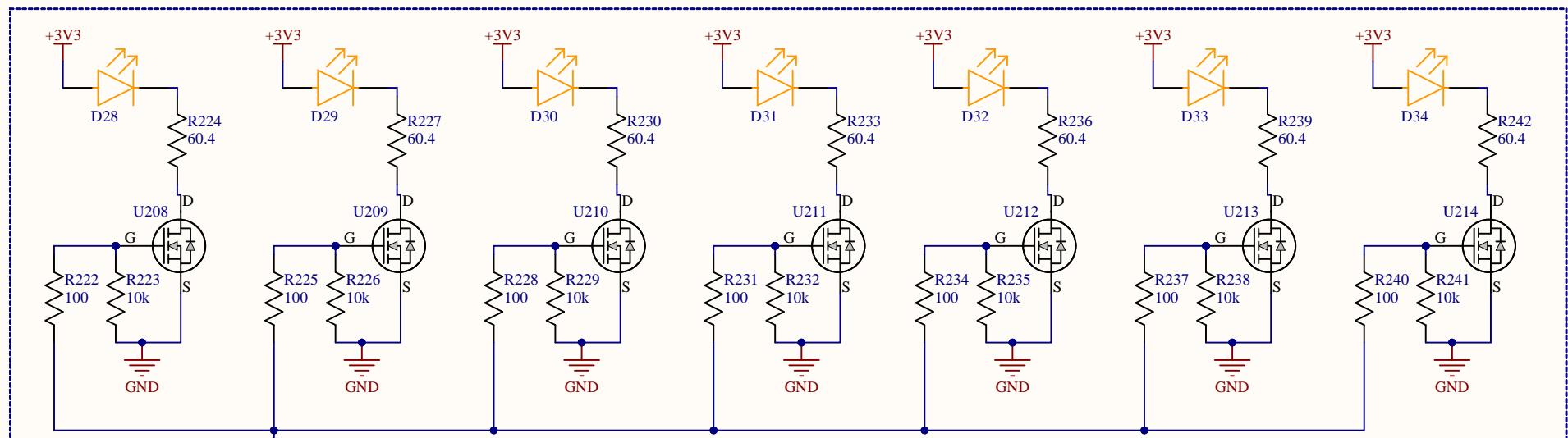
bici-mcu[3B] Left-Lights-PWM → TP201

C

2

3

4



Right Indicator Light Circuit

bici-mcu[3B] Right-Lights-PWM → TP202

Title <b>Bici: Turn Signal Lights</b> Circuitry related to light feedback to user and surrounding cars.		
Size A	Number	Revision V2
Date: 11/17/2025		Sheet 3 of 5
File: C:\Users\...\bici-turn-lights.SchDoc	Drawn By:	Team Bici

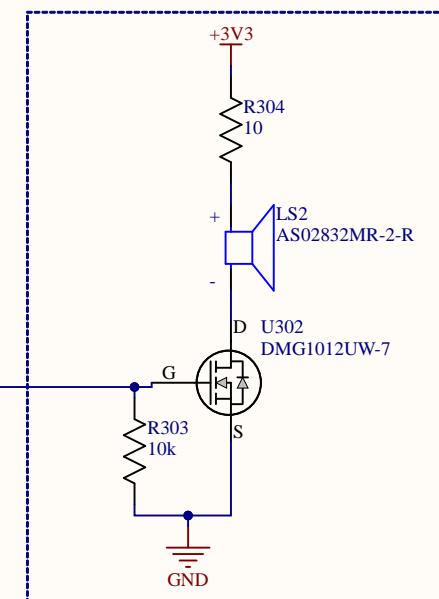
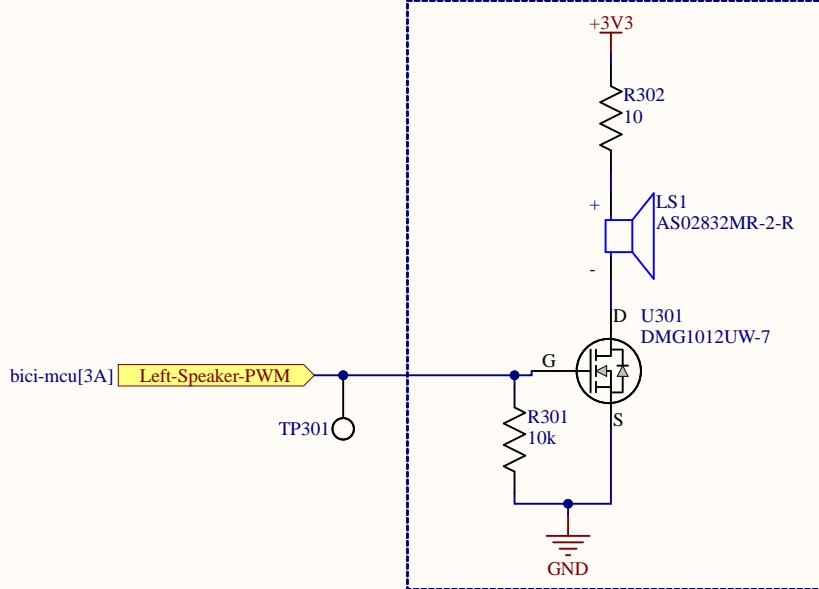
1

2

3

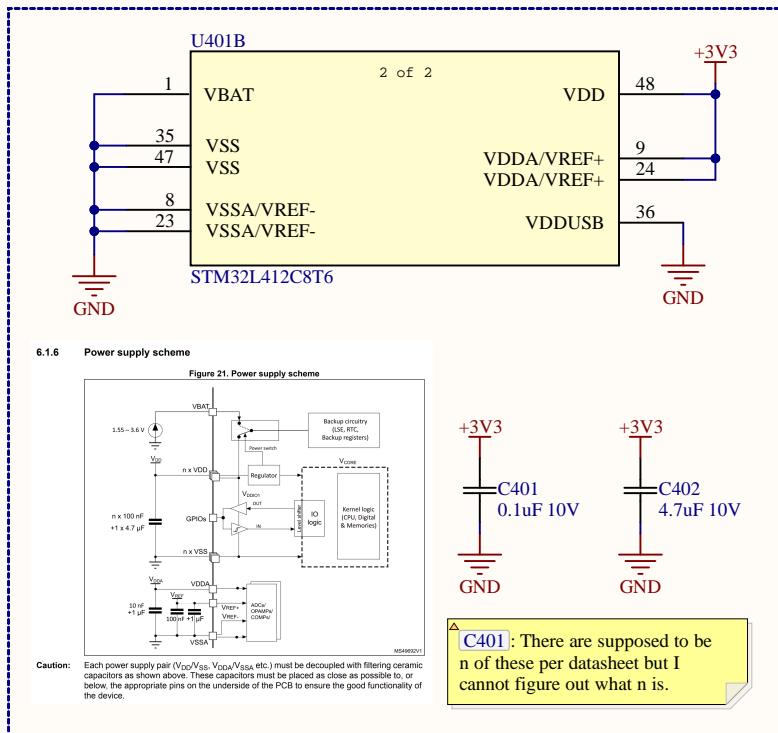
4

### Left Indicator Audio Feedback Circuit

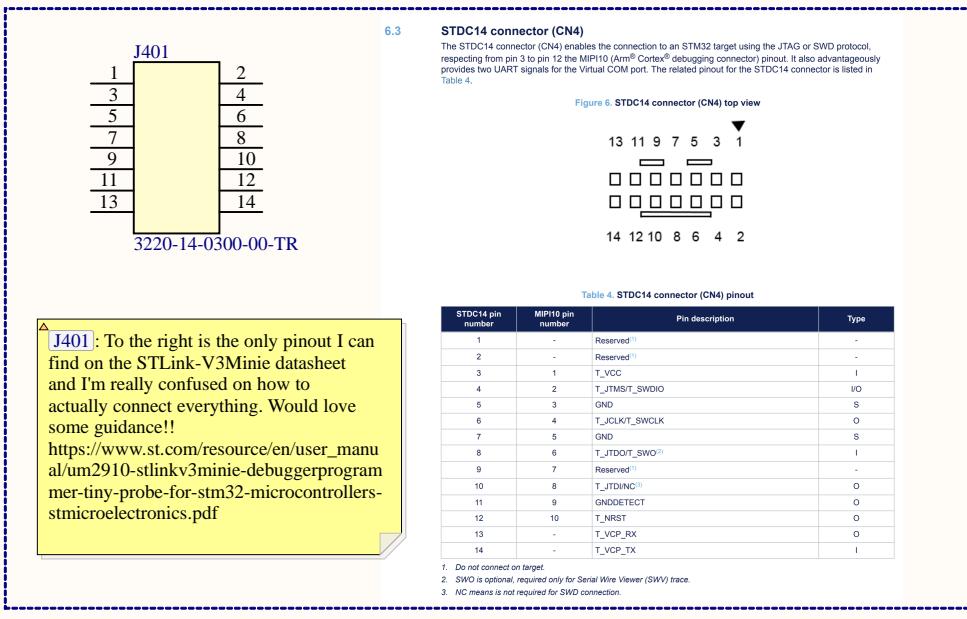


Title <b>Bici: Turn Signal Audio</b> Circuitry related to audio feedback to user.		
Size A	Number	Revision V2
Date: 11/17/2025	Sheet 4 of 5	
File: C:\Users\.\bici-turn-audio.SchDoc	Drawn By:	Team Bici

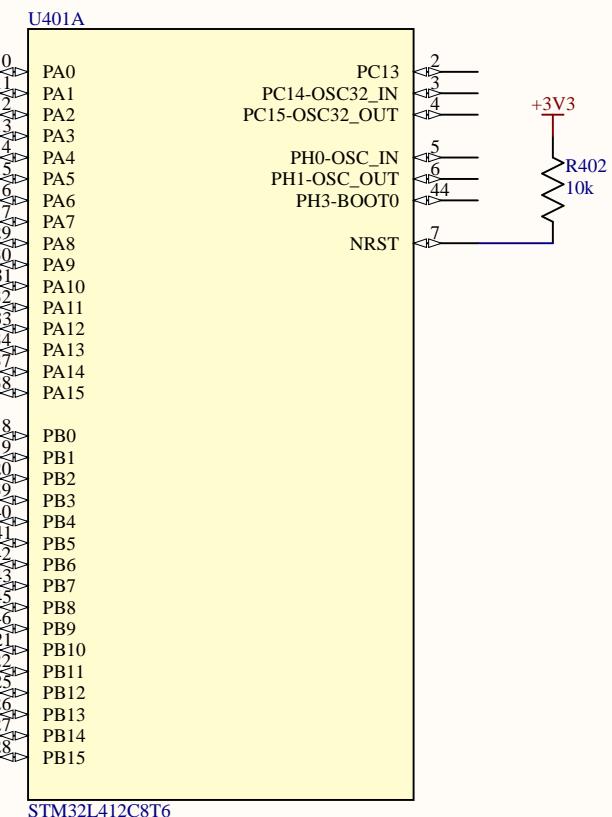
## STM Power



## Programming/Debugging Connector



## STM I/O



### U401A:

- PA0 is ADC in (for low battery detection)
- PA8 is active-low output for low battery light
- PA2 and PA3 are associated with TIM15 for PWM
- PA5 and PB3 are associated with TIM2 for PWM
- PB0 configured as EXTI0 (external interrupt input) for IMU\_INT1

**Title** **Bici: MCU**  
**Circuitry related to embedded MCU.**

Size	Number	Revision
A		V2
Date:	11/17/2025	Sheet 5 of 5
File:	C:\Users\...\bici-mcu.SchDoc	Drawn By: Team Bici