

# UPLOADING THE MODIFIED FIRMWARE TO THE TORP CONTROLLERS.

**Important: By using this option you are losing the Warranty and access to the Torp Support. Torp company is not responsible for any potential damage caused by altering their product's firmware.**

-Step 1: Connect GND to pin 19 and 12V to BOOT (pin 17)

-Step 2: Connect to 5V (pin 18)

Once these three pins (pin 19, pin 17, and pin 18) are connected, the microcontroller enters the standard STM 32 Bootloader

-Step 3: Connect RX and TX (pin 10 and pin 11) to UART and use the STM 32 Cube programmer

**Do not perform this procedure while the DC link (controller) is under high voltage!**

