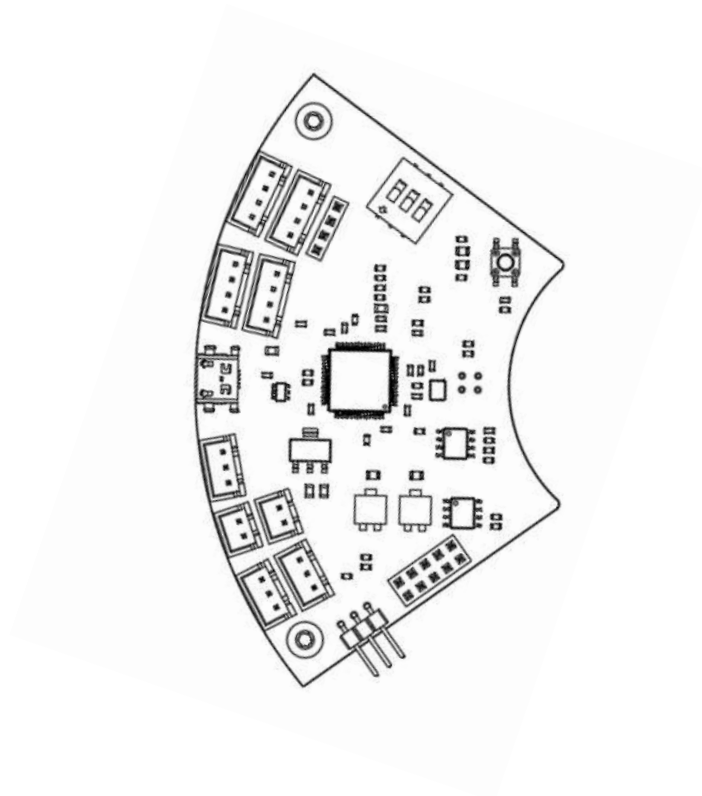


MINIPRO[®] FIRMWARE UPDATE

DYNO CONTROLLER BOARD V3.1

REVISION 1.0



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MINIPRO, LLC. 400 S Elliot Rd. Ste D-263, Chapel Hill, NC, 27514
Tech Assistance for Registered Owners (844) 517-4776, Fax: 844-517-3776
Email: info@miniprousa.com
Website: www.minipro.com

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SAFETY PRECAUTIONS

1. Make sure that dynamometers and motors under test are equipped with appropriate safety guards.
2. Make sure that all electronic products are earth grounded.
3. Do not exceed dynamometer and sensor specifications.



DRIVER INSTALLATION

INSTRUCTIONS:

1. Plug the dynamometer controller to a USB port.
2. Switch PIN 3 to the up position (FW) and push the reset button (see Figure 1)
3. Open the Zadig application (if asked for update click no)
4. Make sure Zadig recognizes the dynamometer board (see Figure 2)
5. Select Install Driver and it will take a few minutes.
6. Once driver is installed you can close Zadig.

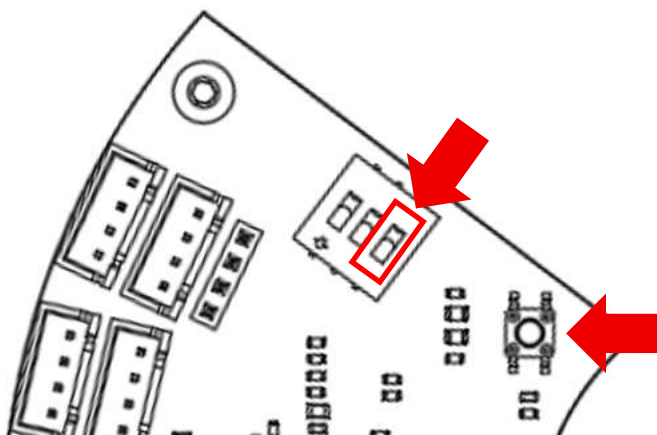


Figure 1: Dynamometer Controller Board

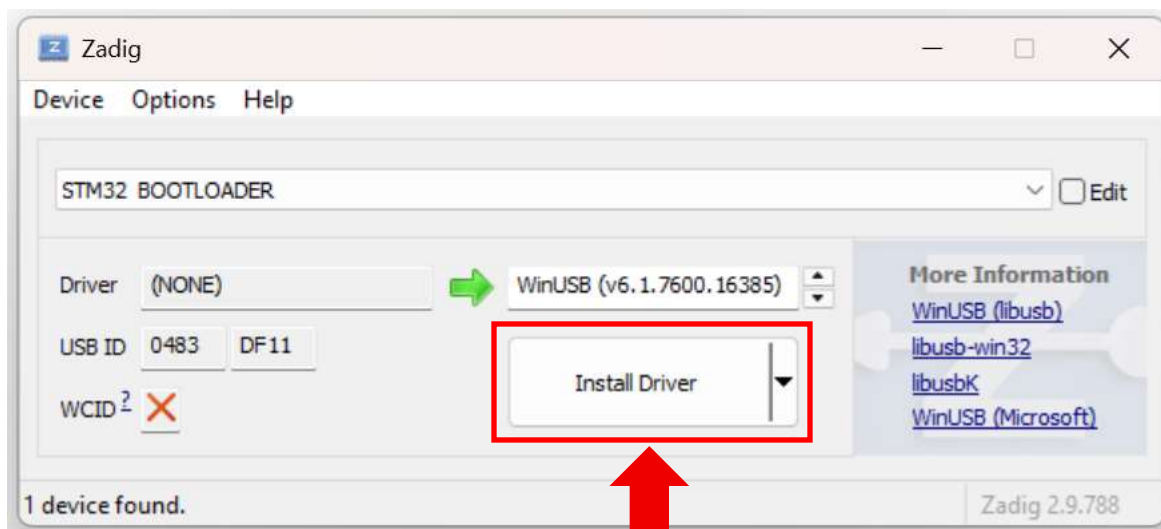
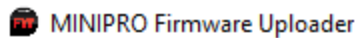


Figure 2: Zadig Driver Installation

FIRMWARE UPDATE

INSTRUCTIONS:

1. Install the Firmware application.
2. Open the Firmware application.
3. Put Pin #3 on the up position (ON) and push the reset button (see Figure 1).
4. Select Update to Firmware button.
5. Select the provided firmware file.
6. Once installation completes, move pin #3 down (OFF) and push the reset button.
7. Done!



Firmware for Motor Dyno v3.X Board

Steps:

1. Close All MINIPRO Applications.
2. Move Pin #3 (FW) to the 'UP' position.
3. Push Reset Button.
4. Click 'Update Firmware' and select the firmware file
5. Once update finishes, move Pin #3 'DOWN'.
6. Push Reset Button
7. Close Firmware Application and Open Dyno App.

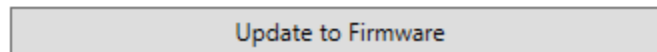


Figure 3: Firmware Update Software

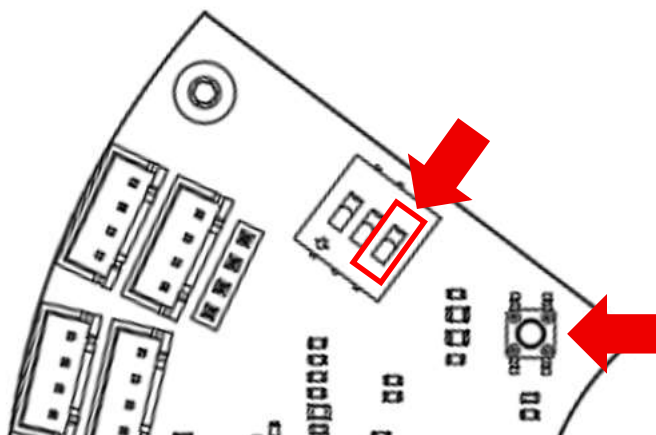


Figure 4: Dynamometer Controller Board