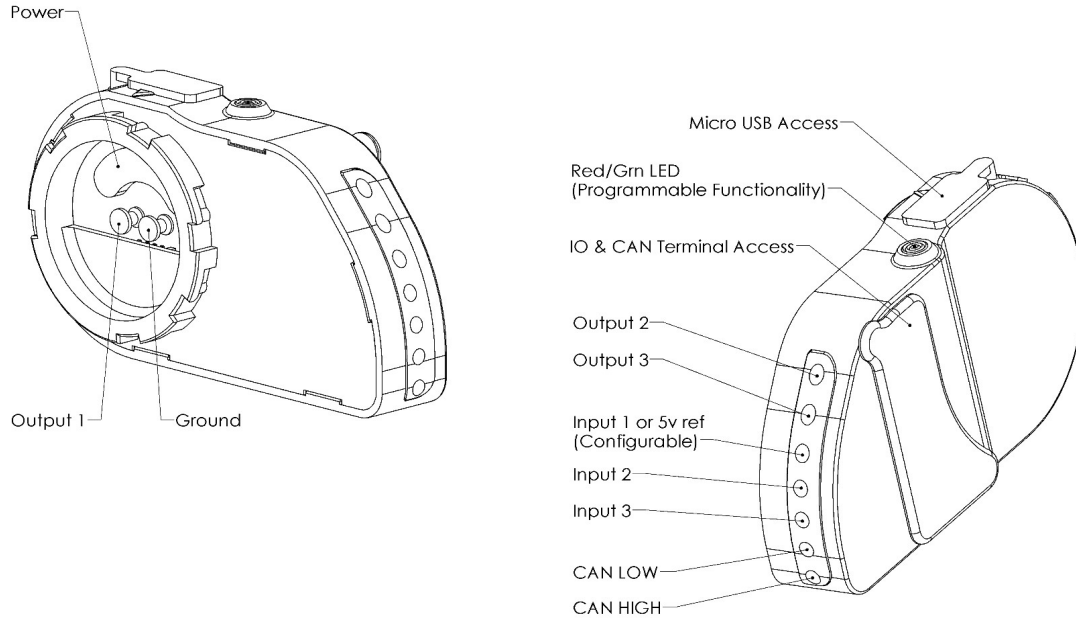


SMOOTHBOOST CONTROLLER USER GUIDE

(PART NUMBERS: KAI-5519)



The Smoothboost Controller interfaces with the factory powertrain CANbus using a Kaizen Relay and Control Module. We use parameters such as Front and Rear Wheel Speed, Throttle Position, Engine RPM and others to providing varying duty cycle outputs to get your car hooked up and down the track as quickly as possible.

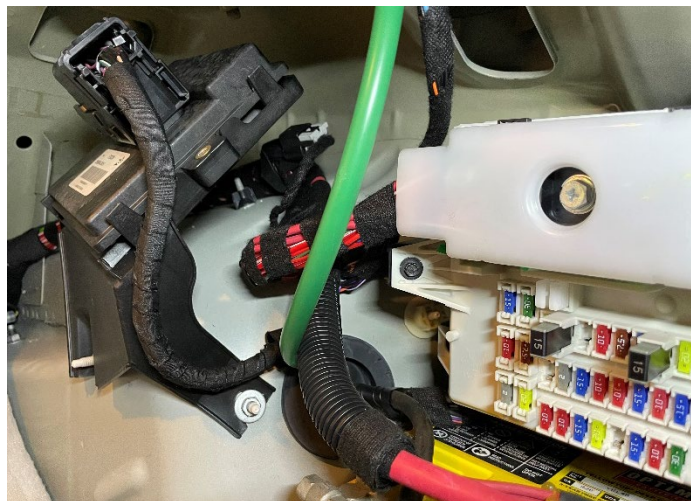
INSTALLATION:

1. Locate the 2-pin CANbus termination resistor and unplug it. The wires leading into the plug will be tan & tan/blk.

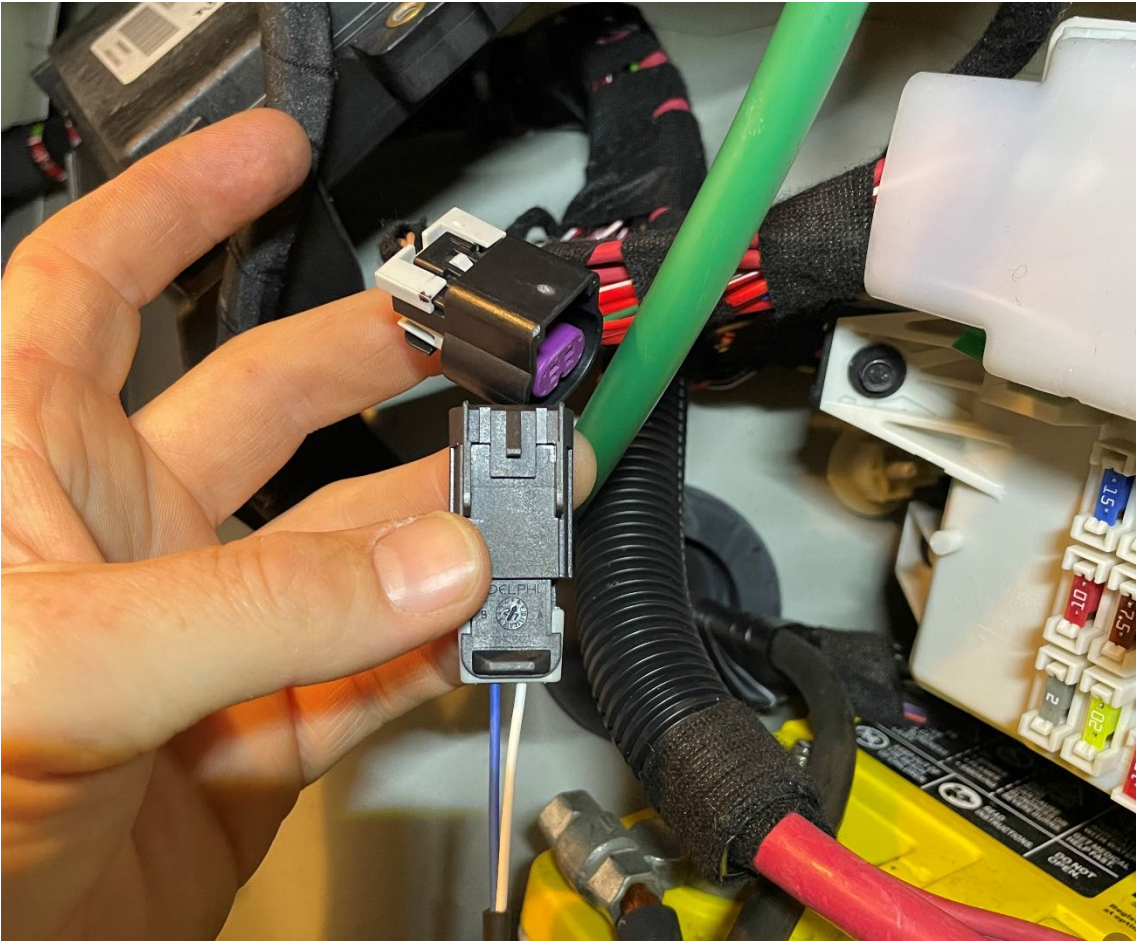
CTSV Sedan: Trunk (passenger side in front of the fuse box)

CTSV Coupe/Wagon: Trunk (driver side in front of the fuse box)

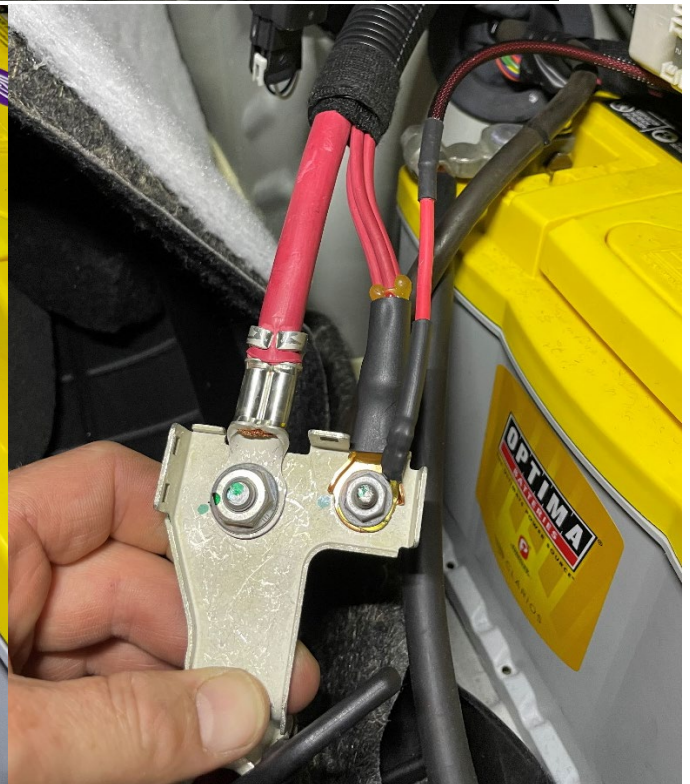
Gen5 Camaro: Behind the interior trim plastic on the passenger side rear quarter panel.



2. Plug in the provided connector in place of the term resistor



3. Remove the positive battery cable and detach the red plastic cover using a small screwdriver. Attach the provided ring terminal to the battery positive post.



4. Attach the chassis ground loop to the chassis and mount the Kaizen Relay assembly.



5. Run the wiring for the 12-position switch into the driver compartment and mount it where you'd like.
6. Run the wiring for the smoothboost to the front of the vehicle and connect it to the smoothboost PWM (-) input
7. That's it!

100% DC is MINIMUM BOOST (0% is MAXIMUM BOOST)

OUTPUT 2:

Sw Pos 0: Minimum boost fixed

Sw Pos 1: MID boost fixed

Sw Pos 2: Full boost fixed (as if Smoothboost system was not installed)

Sw Pos 3: Min. boost to 60 mph, ramping to MID boost by 80+

Sw Pos 4: Min. boost to 40 mph, ramping to MID boost by 60+

Sw Pos 5: Min. boost to 20 mph, ramping to MID boost by 40+

Sw Pos 6: Low boost to 60 mph, ramping to MID boost by 80+

Sw Pos 7: Low boost to 40 mph, ramping to MID boost by 60+

Sw Pos 8: Low boost to 20 mph, ramping to MID boost by 40+

Sw Pos 9: MID boost to 60 mph, ramping to MAX boost by 80+

Sw Pos 10: MID boost to 40 mph, ramping to MAX boost by 70+

Sw Pos 11: MID boost to 20 mph, ramping to MAX boost by 50+

OUTPUT 3:

Sw Pos 0-2: Minimum boost fixed

Sw Pos 3-5: Low boost fixed

Sw Pos 6-8: Mid boost fixed

Sw Pos 9-11: Max boost fixed (as if the smoothboost was not installed – this is the max boost your pulley combination can make)

Troubleshooting:

Normal operation: The LED on the Control Module will slowly blink green when powered and receiving valid CAN messages.

To view live data: Download Kaizen Relay Manager from Kaizenspeed.com
(Kaizenspeed.com>Help>Downloads & Programming Guides)

Plug in to the Control Module using the supplied USB cable and navigate to the Firmware tab. Here you can see vehicle data, timer status and output duty cycles over time. The monitor tab shows the instantaneous input and output status.

