



Navitas TSX3.0 Throttle Calibration Process

This process is required on some vehicles to achieve a fluid 0-100% throttle scope throughout the range of the accelerator pedal.

This process should be completed with the drive wheels off the ground

1. The key switch needs to be in the "ON" position, with the tow/run switch in the "ON" position. If you are doing this process on a vehicle with a series drive motor, you will need to disconnect the M wire from the controller
2. Open the Navitas Dashboard app on your smartphone, connect to your controller, and open the "Diagnostics" page.
3. Find the "Foot Switch" value under "Vehicle Switches", and the "Throttle Voltage" value under "Vehicle Inputs".
4. Slowly depress the throttle, and take note of the "Throttle Voltage" value when the "Foot Switch" value changes from "Off" to "On"
5. Depress the throttle completely, and take note of the "Throttle Voltage" value
6. With the two "Throttle Voltage" values recorded, move over to the "Settings" page at the bottom of the screen
7. In the "Throttle Calibration" section find the "Throttle Min (V)" parameter
8. Set the parameter to 0.25 higher than the value in step 4 and press "enter" or "done" on your keyboard
9. In the "Throttle Calibration" section find the "Throttle Max (V)" parameter
10. Set the parameter to 0.25 lower than the value in step 5 and press "enter" or "done" on your keyboard
11. In the "Throttle Calibration" section find the "Throttle Creep X (V)" parameter
12. Set the parameter to 0.5 higher than the value in step 4 and press "enter" or "done" on your keyboard
13. Scroll to the bottom of the settings page, and press "SAVE CHANGES", and "Yes" on the confirmation screen
14. Cycle the key switch from "On" to "Off" to "On". If the vehicle is a series drive, the power to the controller will have to be disconnected and reconnected. This can be achieved by removing and reconnecting the main harness, or the wire from the negative battery terminal.
15. Connect to your controller again, and go to the "Diagnostics" page. In the "Vehicle Inputs" section, locate the "Throttle %" value
16. Verify that with your foot off of the pedal, the value is 0, and with the pedal fully depressed the value is 100

Navitas Vehicle Systems Ltd.
500 Dotzert Court
Waterloo, Ontario N2L 6A7 Canada
Phone: 519-725-7871
Toll Free: 844-576-2499
Fax: 519-725-1645
www.navitasvs.com
info@navitasvs.com