

USB Programming

For Advanced Users and diagnostics. A variety of conditions can be changed with the USB-C terminal. Remove the USB-C cover and connect the controller to a PC or Android phone with a Serial Terminal app.

Function	Arguments	Comments
DFU	None	Enter bootloader mode for firmware upgrades
Config	None	Print out the current config
Stopcode	None	Prints the last stop code from Cruise Cancel event. See Kill Conditions. Memory lost on power.
Debug	None	Start/Stop printing Debug messages. While cruise is active: 3 data fields are: cruiseSetPoint, CAN_Rear_Wheel, output_throttle. Use for custom tuning PID.
Reset	None	Reset config to default values.
Help	None	Print Help
Wheelx	1	Adjust the wheel speed sensor factor. Change for custom applications or extreme tire changes.
SpeedINC	03	Adjust the amount to increase speed with a single press of the INC/DESC buttons. Units are KM/H
PID	22 3 0	Adjust the PID gain
tmax	60	Adjust the Maximum throttle limit. Units are 1%
TPSide	None	Set the throttle input idle position
TPSopen	None	Set the throttle input open position

Example:

speedinc 04

The above command will set the new speed increment to 4kph.

PID 200 15 05

The above command will set the PID controller with values of P=200, I=15, D=05