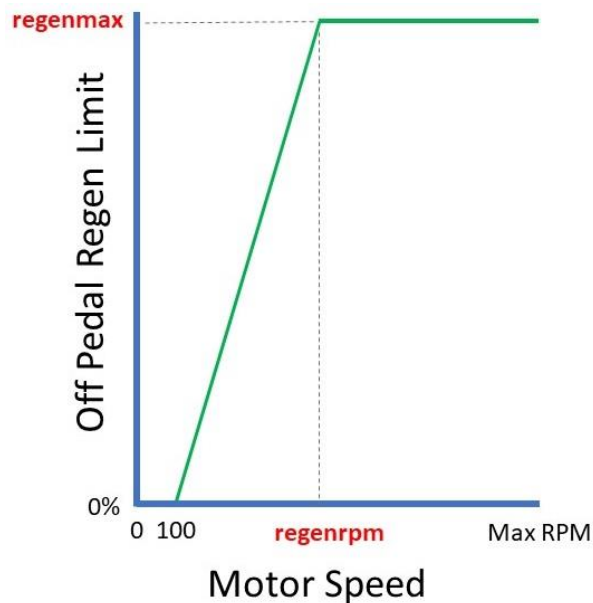


ZombieVerter Regen

14/03/2024

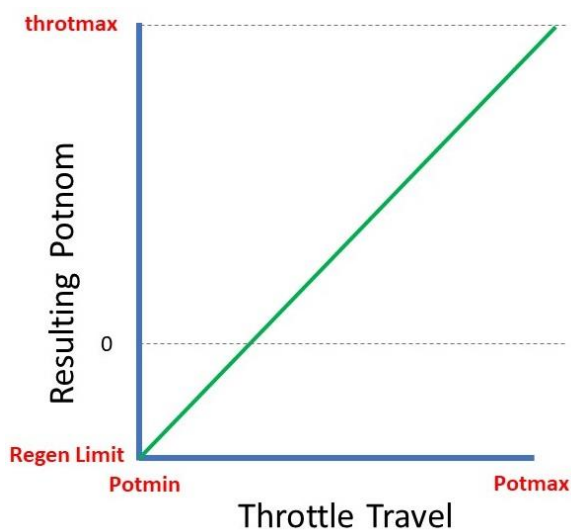
Tom dB

Pull request <https://github.com/damienmaguire/Stm32-vcu/pull/78> implements regen and introduces new parameters. This document explains the new parameters.



Regenrpm – The motor rpm at which regenmax is used as the regen limit. Under this rpm the regen limit is tapered to 0% at 100 rpm. This is applied to both Regenmax and regenBrak.

Regenmax – The maximum allow regen in *potnom* percentage, always negative or 0. Ramps down based on motor rpm.



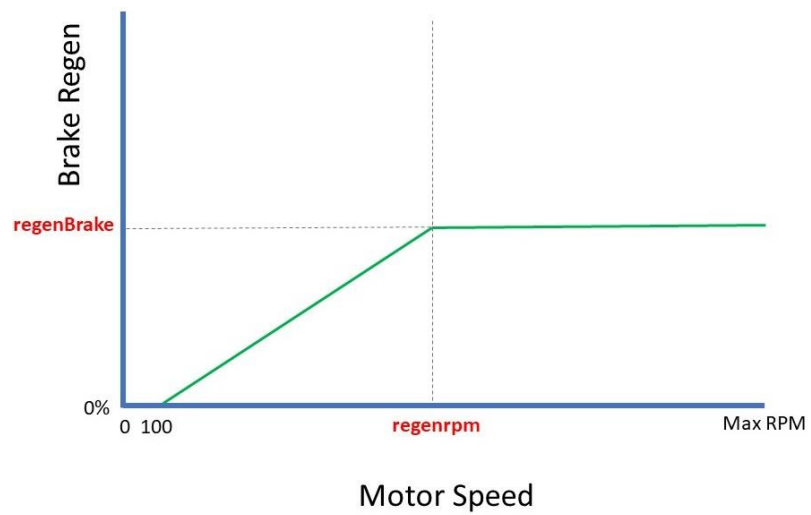
throtmax – Maximum allow positive *potnom* request in the forward direction.

throtmaxRev – Maximum allow positive *potnom* request in the reverse direction.

Throtmin – Minimum (most negative) allowed *potnom* at all times.

Throtramp – The amount of allowed *potnom* change per %/10ms.

Throtramprpm- Above this motor rpm Throtramp is no longer applied.



regenBrake – Brake pedal based negative *potnom* request, always negative or 0. Ramps down based on motor rpm.