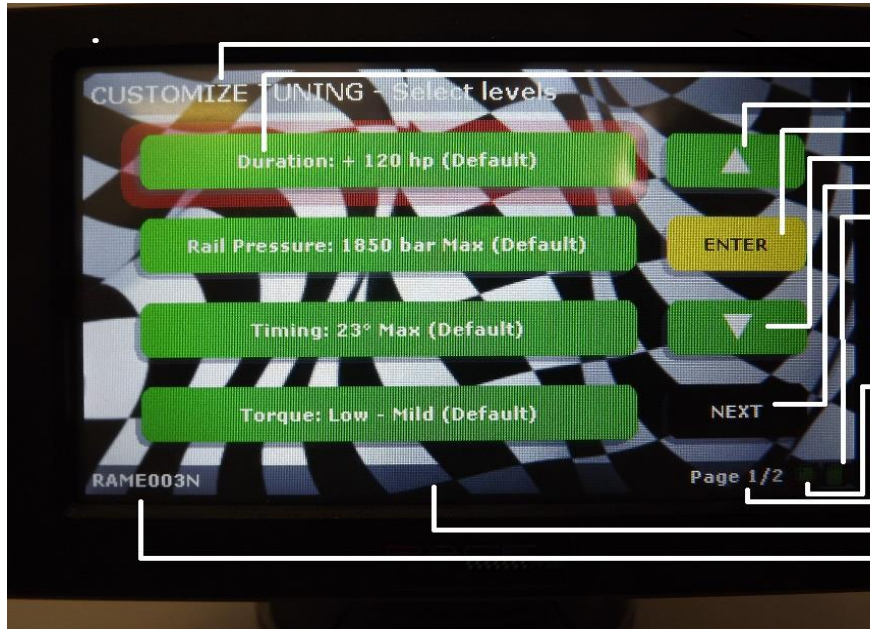


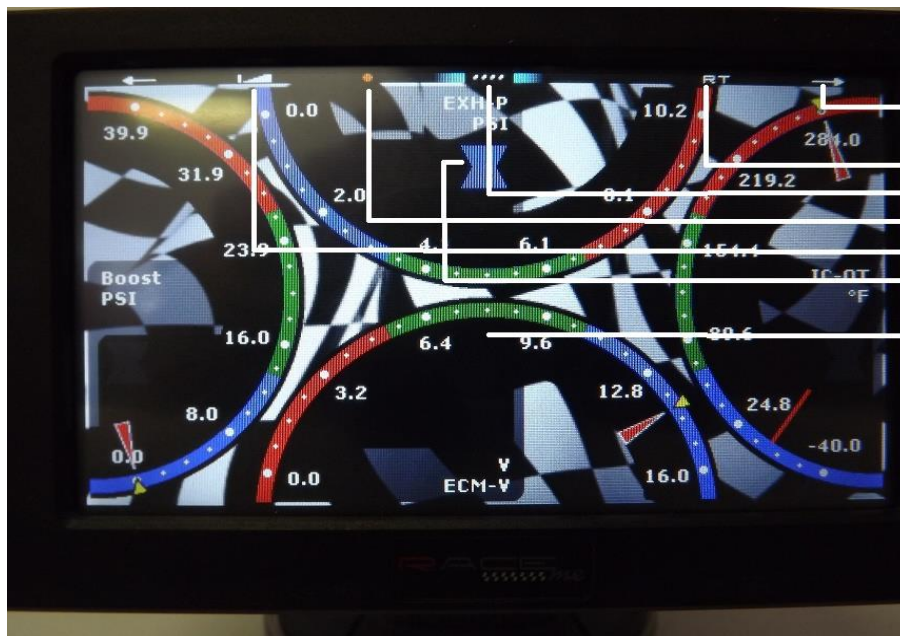
RaceMe Ultra Tuning Manual

This manual will explain how to use and install the programming on your RaceMe Ultra tuner. We recommend that you install the tuner's programming before you remove any of the emissions related hard parts. This will ensure you will not be left with a no start condition in the event of an issue. We also STRONGLY recommend that you update your tuner to the most current version of firmware that is available to ensure that you have no issues. All updates as well as detailed tutorials can be found at www.racemecanada.com under the updates tab. Before we start, we must first identify some of the things we will see on the Ultra display once

its powered up.



Title Bar.
 Directly select Item.
 Select Previous Item.
 Enter Selected Item.
 Select Next Item.
 Exit or Next.
 SD Card Status:
 Red = Not Present or Faulty.
 Yellow = Check in Progress.
 Blue = Check in Pause.
 White = Not Readable.
 Green = Ready.
 ECM Communication Status:
 Red = No Communication.
 Yellow = Partial Communication.
 Green = Complete Communication
 Current Page and Total Pages.
 Status Bar.
 Data Version/ Notes.



Scroll Between Gauge Layouts.
 Real Time Tuning Menu.
 Main Menu.
 Record (Datalog).
 Reset Max.
 Not Avail./ Waiting for Info.
 To Modify Gauge.

To check the current firmware version on your SD card and tuner, power up the tuner go to menu → config tools → page up → firmware update. Listed will be the current firmware in the tuner and current firmware on

the card. If these numbers match, the tuner will tell you that it is up to date.



This may not

be the case. The tuner recognizes only what is on the card. It sees the card version as the newest version and if it has installed what is on the card, it thinks it has done good. This is why it is mandatory to check the website for the most current update.

Current update is 0001.01.01.

Older versions are 0001.00.26.

0001.00.20.

0001.00.16.

If you have any of these old updates, you may encounter problems with your truck.

Turn key to run position (without starting the truck). Once the tuner powers up, a disclaimer screen will appear. Select I agree. This will take you either to the main menu or the dashboard (gauge layout). If at dashboard, select menu button on top of screen. The menu as well as the other buttons are very small, but if you touch close to them, you will select them. Once selected this screen will appear.



From the main menu, we can select between the four dashboards, tuning menus, and configuration and information screens.

Explanation of RaceMe Ultra ECM Tuning and DTC.

To Read and Clear DTC's (diagnostic trouble codes).

ECM Tuning and DTC → DTC.

Displays current diagnostic trouble codes stored in the trucks ECM. Codes can also be cleared from this menu by selecting the clear tab. This will require you to cycle you key.



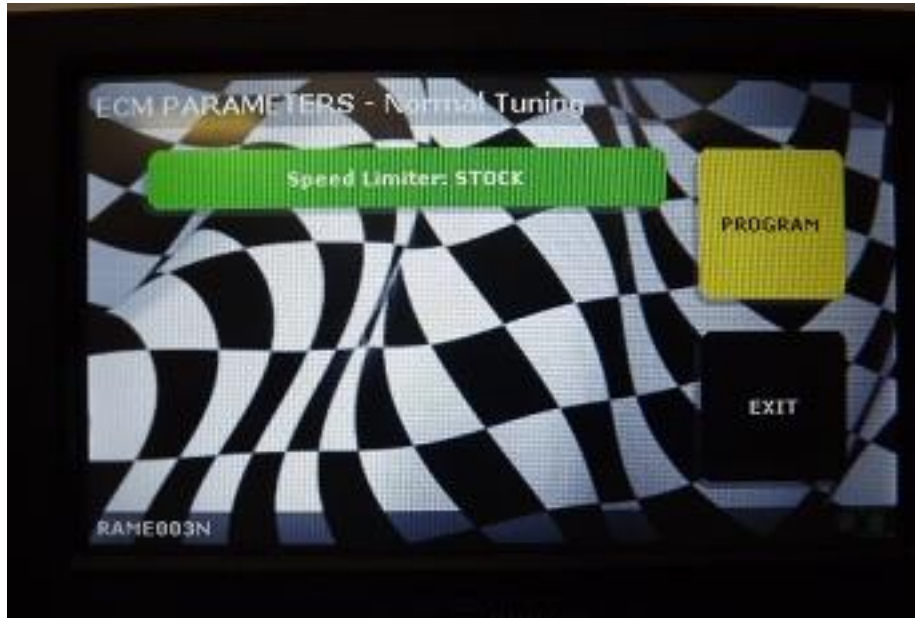
ECM Tuning and DTC → ECM → Customize Tuning

→Deletes Only- Only Stock Power.



Select this option if you want to delete all emission related equipment but leave the truck completely stock otherwise. The next screen will ask if you want the speed limiter changed. Touch the speed limiter to change value or leave if current value is desired. Then

select program.



ECM Tuning and DTC → ECM → Customize Tuning
→Deletes – With Increased Power.



Select this option if you want to delete all emissions related equipment and add custom power options.

ECM Tuning and DTC → ECM → Customize Tuning

→Deletes – With Increased Power →



Duration is the horsepower setting for the program. By touching the duration tab, user can select between 30HP, 60HP, 120HP (Default), 150HP, and 200HP.

Rail Pressure is the max fuel rail pressure setting for the program. User can select between 2000bar (29000psi), 1900bar (27550psi), 1850bar (26825psi), Stock (26000psi). Default is recommended with stock fuel system.

Timing is the max degrees before TDC (top dead center), The injectors will spray fuel. User can select between stock (18deg), 23deg (default), 29deg, and 35deg. In

some cases, timing can be credited for fuel mileage increases.

Torque is best described as the amount of fueling that is allowed low rpm. User can choose from Stock, Low-mild (default), Mild, Medium, and Wild. The higher up the scale you go, the more, low end fueling you will receive. At low rpm, the vehicles transmission line pressure is low and the torque converter is forever slipping. Large amounts of torque in this condition can cause damage or failure of such parts. An aftermarket torque is recommended for upper settings in this parameter.

VGT is the variable geometry turbo setting. These turbos have moveable vanes inside the turbine housing that are controlled by a servo motor. User can control how fast the turbo “spools” by altering this setting. Options are Stock, Economy spool (default), mild spool, and quick spool. Quick spool will be quicker to make boost but create more back pressure between the turbo and the engine. Economy spool will be slower making boost but will have less backpressure.

Transmission tuning (only available for 68RFE trans) has two options. User can leave the transmission stock, or

add transmission tuning. Transmission tuning will include increased line pressure, increased shift firmness, shift point change @WOT, and 6th gear unlock.

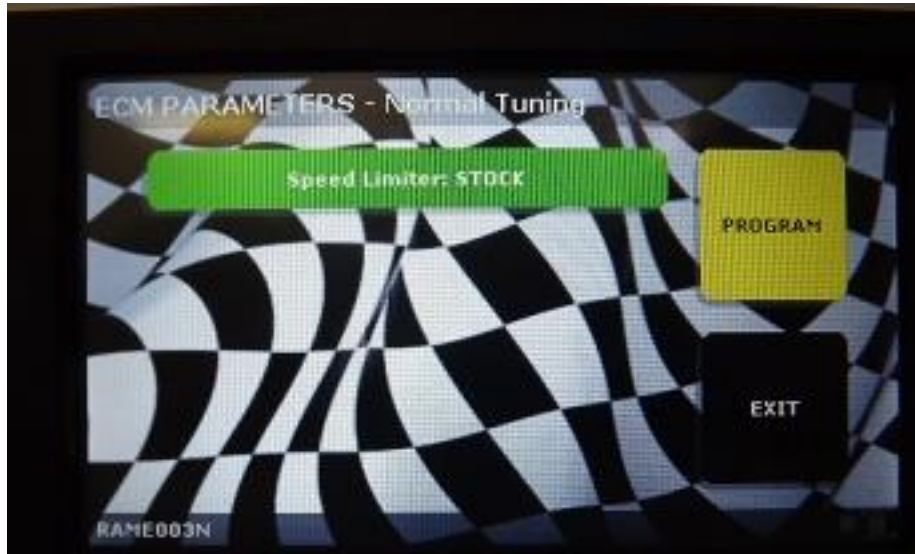
Once all the options are selected, select next from the bottom right of the screen.



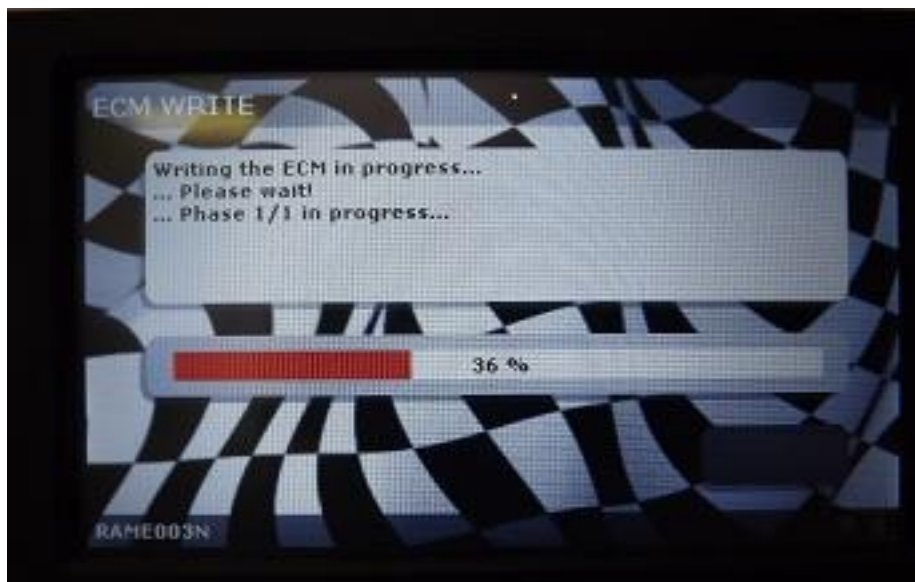
Next, select speed limiter change if you choose



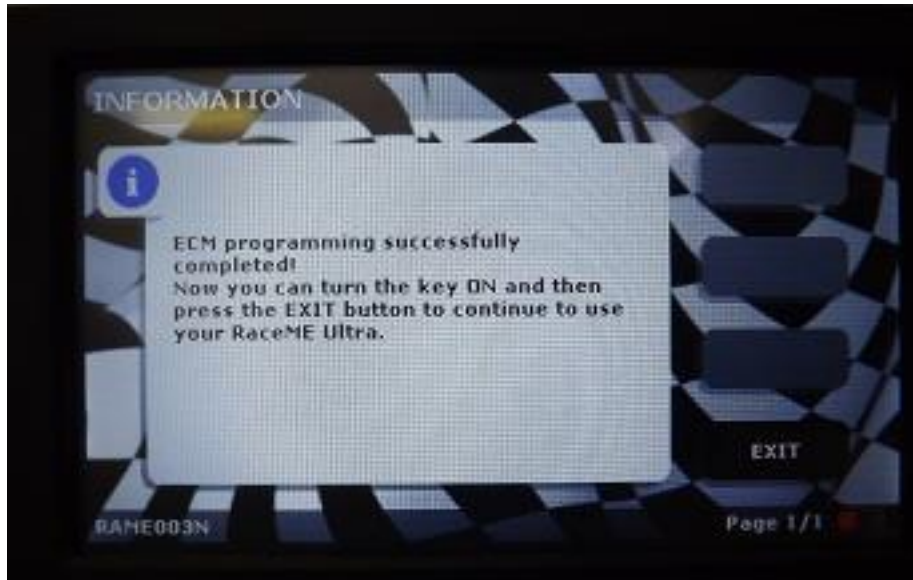
Then select program.



The Tuner will now write to the ECM.



When programming is finished, follow the key on/key off prompts, finishing with this screen.



Your truck is now programmed. To return your truck back to stock, power up programmer by turning key to run position. Select Menu → ECM Tuning and DTC → ECM → Return Truck to Stock → Write ECM. Tuner will write stock file back to ECM. Once it is finished, follow key on/ key off cycles until tuner is finished.

****NOTE****

Return truck to stock- Returns truck to complete stock.

Deletes only- Only stock power- deletes emissions with no extra power added.

