Important Phase 5 info

FastFlash Programming

Method of operation FastFlash (FF) will be enabled when a FF enabled RaceROM patch is already installed on an ECM/TCM. This means the first time you program with a FF enabled ROM the programming sequence and programming time will not change. On subsequent programming operations FF will be used. The minimum programming time is approximately 20 seconds on a 1mb unit and FF will always reprogram blocks 8 and 15. More changes will require more blocks to be reprogrammed taking additional time. Unfortunately at this time the same DTC clearing and power-off sequences still need to be followed after programming.

Failed Flash Recovery FastFlash

has been tested to ensure that it will not "brick" either the ECM or TCM if there is a programming failure, however the correct sequence must be used in order to recover from a failed programming attempt.

- Close the ProECU programming window
- Disconnect the battery for at least 15 seconds to stop the programming code continuing to run in RAM.
- Manually select the correct ECM or TCM programming window for the car. This is a critical step as ProECU will not be able to auto detect a part programmed ECM/TCM
- Select correct ROM
- Program

Absolute Boost

The single most important concept introduced with Phase 5 GTR is the use of Manifold Absolute Pressure (MAP) for all aspects of tuning the boost control. All boost target, boost limit and boost threshold values are all absolute values in Bar !!! so 2.3bar = 1.3 manifold pressure, don't be alarmed your stock turbo stock engine GT-R is not overboosting

RaceROM Rolling Launch Rolling

Launch throttle compensation has been updated with a different strategy for taking control of the throttle that should prevent spurious Drive-By-Wire related DTCs from being generated. The method of operation is otherwise unchanged and is detailed below (taken from existing manual).

Method of Operation As the name suggests, Rolling Launch is a type of launch control that can be performed from a rolling start. To operate Rolling Launch, drive the car at a steady speed in a low gear - 60km/h in 2nd gear is about right. Set the cruise control to maintain the vehicle speed. Now press the accelerator pedal all the way down to the floor. Instead of accelerating, the ECU will initiate an anti-lag effect. This will rapidly generate a large amount of boost, controlled using a proportional closed loop mechanism. But the car will continue to hold steady at the selected vehicle speed. When you are ready to launch, press the CANCEL button on the steering wheel. The cruise control will disengage, the throttles will open fully and the ignition timing will advance. This unleashes a large amount of torque and causes rapid acceleration in an instance. The rolling launch feature will work in any gear and at any RPM or vehicle speed.

RaceROM Valet Mode

Valet Mode allows the driver to lock the car into a lower performance mode when lending it to a less experienced driver, or as a theft deterrent that kicks in when the car is at a safe distance. Valet mode has been simplified in line with the strategy used on the 370z, as the previous version was frequently commented on as being too complicated to activate and deactivate.

Method of Operation Valet mode is operated using the cruise control switches in the same way as map switching. Instead of selecting map switch mode 1, 2, 3 or 4, select mode 8. The map switch mode does not change.

To turn on the Valet mode • Ensure that the cruise control is OFF. • Hold the CANCEL button for 1 second. • The rev counter will move to indicate the current mode. • Use the cruise up until the tachometer shows 8000rpm (mode 8). • Press CANCEL or wait 1 second to enable the valet mode, the rev counter will show current RPM

To turn off the Valet mode • Ensure that the cruise control is OFF. • Hold the CANCEL button for 1 second. • The rev counter will move to indicate the current mode. • Use the cruise up until the tachometer shows 8000rpm (mode 8). • Press CANCEL or wait 1 second to enable the valet mode, the rev counter will show current RPM

Linney Ecutek Advanced Traction control

We offer a simple Traction control set up via map switch modes. This allows keeping boost control adjustable via cruise control

map 1 timing reduction only based on wheel slip

map 2 timing + throttle %

map 3 timing + throttle % + fuel cut

map 4 timing + throttle % + fuel cut + tq limit %

Needs R-mode on suspension to enable

Maps 1-4 can be used to suit in various conditions. For example map 4 will be more suited to a wet autobahn and map 1 for a well prepped drag strip but it's very much personal choice

We can also do adjustable traction control via the cruise control, allowing 15 setting clicks for a far more higher resolution of options, but this means you loose adjustable boost control, but we can do boost options via a map switch instead

Please view our videos on www.linneytuning.com to see an example of adjustable traction control via cruise control