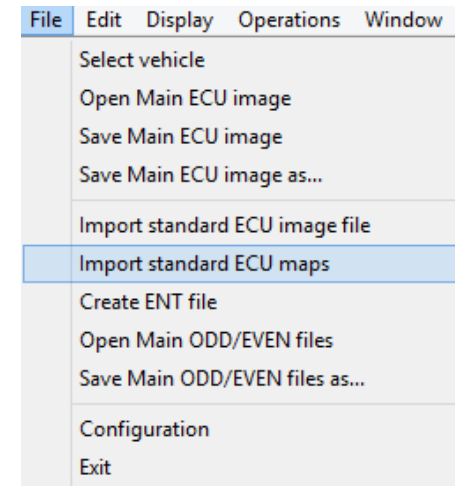# Feature Pack Training

Overview

- Adds extra features to standard Nissan ECU
- This is release version 1 which covers:

- **Flex fuel** (fuel and timing trims based on ethanol content)
- **Total fuel adjustment** (replaces K constant for injector resize)
- **Launch control** (fuel cut, ignition retard)
- **Fan control adjustment** (different operating temps and engine speed)
- **Added VCT functionality** (for targeted engines RB25DET or SR20VE using earlier ECUs)
- Remove unused conditional tables (simpler tuning)

Using Feature Pack

- Reprogram Nistune board with upgraded firmware using Base Image Programmer

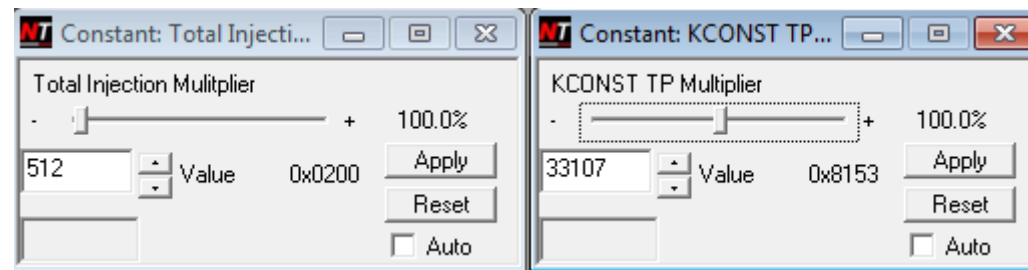- Software detects when ECU has been updated

Nistune [S14A(SR20DET) Feature Pack 1.0 (Version: 1)]

- Import previous tunes into the software

- Recommended to start from factory base

- Feature Pack tuning guide on Nistune website documentation pages

File	Edit	Display	Operations	Window
Select vehicle				
Open Main ECU image				
Save Main ECU image				
Save Main ECU image as...				
Import standard ECU image file				
Import standard ECU maps				
Create ENT file				
Open Main ODD/EVEN files				
Save Main ODD/EVEN files as...				
Configuration				
Exit				

Total Fueling Adjustment

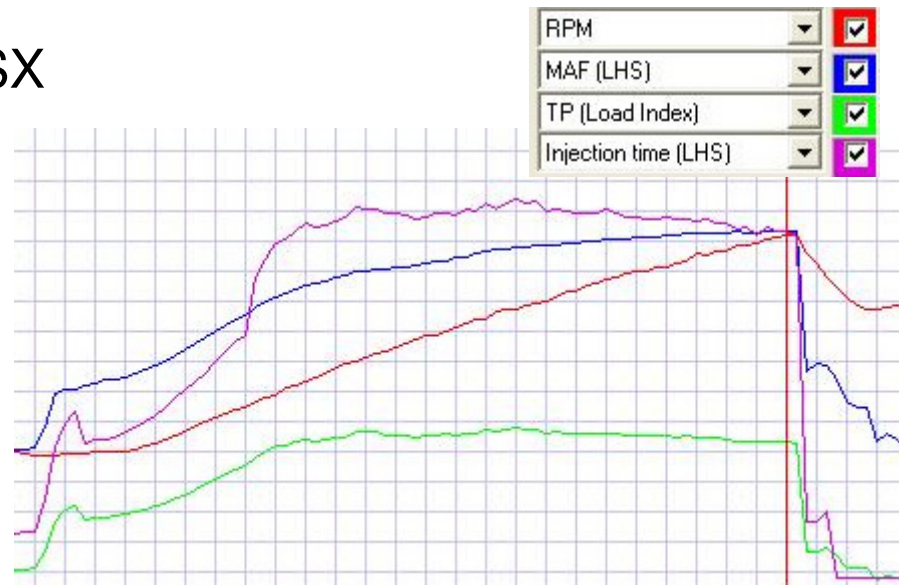- Supplementary parameter for injection control added

- Adjust total fuel injection without affecting load scales
- Leave factory load scales as default during tuning
- Adjust 'Load multiplier' (K constant) for load adjustment
- Adjust 'Total Injection Multiplier' for final fuel adjustment

Total Fueling Adjustment

- Example power run on S14 200SX

- Make sure your tune utilises the default factory load scales
- Adjust Load (TP) multiplier until range is used after MAF upgrade
- Adjust Total Injection Multiplier (TIM) to adjust total fuel trimming
- Load indexing in the Nissan ECU is left to default to avoid side effects of moving load out of normal range

MAF Adjustment

- HPX MAF inserts have the ability to measure over 500rwkw
- Adjust in the software for the required load range of the vehicle
- Rescale HPX slot MAFs using the Translation Function Generator
- Adjusts Load Multiplier and Total injection multiplier based on range amount

Flex Fuel Support

- Modelled on popular aftermarket implementations (fuel and timing)
- Reports ethanol content and converts to adjustment percentage
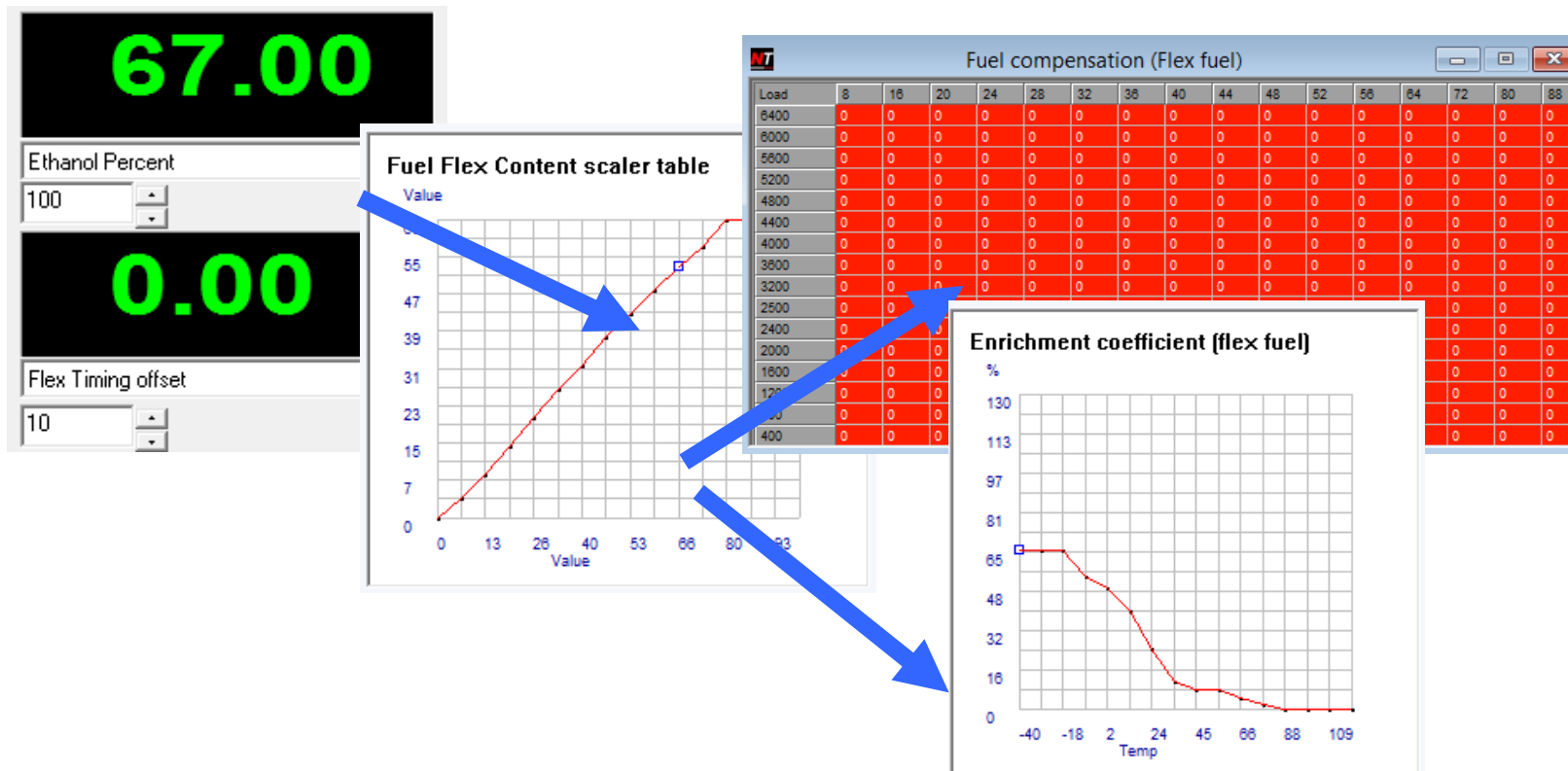
Flex Fuel Hardware

- Installs into standard ECU with minimal soldering
- Uses small converter board and supplied with connector harness fitted to flex sensor in vehicle

- Requires multiple tunes (base tune on 98 octane, high end tune on E85 and then mix tune)

Launch Control

- Adjusts standard rev limiter based on launch speed and RPMs set in the software

- Triggered from speed or external switch input
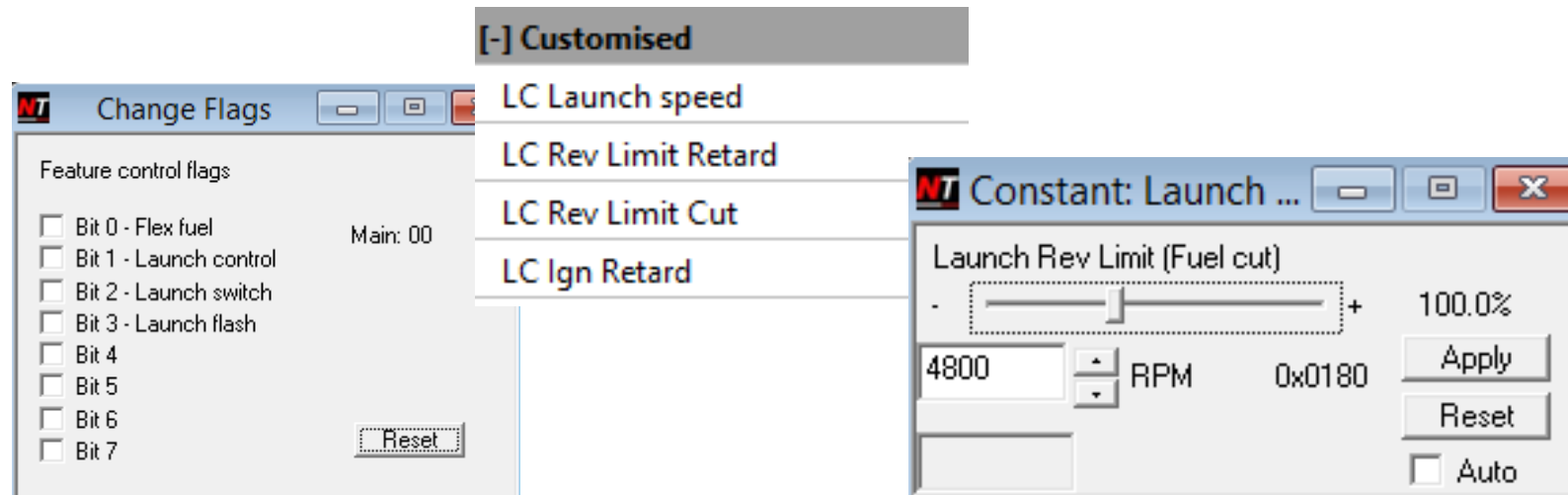
VCT control

- Support for R33 Skyline RB25DET with VCT
- Z32 300ZX ECU
- HCR32 Skyline ECU (23710-04Uxx models using spare output)

- Support for SR20VE engines with VCT
- B13 SR20DE ECU
- S13 SR20DET ECU
- P11 SR20DE ECU
- Add VCT replacing EGR output

Constant: VTC Sol...
VTC Solenoid Theoretical Pulse Width Cut
- | + | 100.0%
24 | Value | 0x18
Apply
Reset
☐ Auto

Constant: VTC RP...
VTC RPM Enable
- | + | 100.0%
1050 | RPM | 0x15
Apply
Reset
☐ Auto

Constant: VTC RP...
VTC RPM Cut
- | + | 100.0%
5700 | RPM | 0x72
Apply
Reset
☐ Auto