

# VISCONTI TUNING

## NEXGEN GTR FLEXFUEL KIT- INSTALL GUIDE

### INTRODUCTION

Welcome to the Install Guide for Visconti Tuning's NexGen R35 GTR FlexFuel Kit. Your FlexFuel Kit should contain all of the parts shown in the picture. Because you're working with fuel lines near the exhaust system installation is best done when the car is cold.

### KIT CONTENTS

- > Super Lube
- > 4x 30mm bolts
- > 10.5" Quick Connect Black PTFE Fuel Line
- > 3" Quick Connect Black PTFE Fuel Line
- > Fuel Rail Adapter with quick connect
- > GM Ethanol Content Sensor on Billet Bracket
- > Visconti CANBOXPRO
- > Visconti Plug & Play Wiring Harness



### TOOLS REQUIRED FOR INSTALL

- > Small Flat Head Screw Driver
- > 10mm Wrench
- > 3/4" drive ratchet
- > 3/4" extension
- > 3/4" 10mm socket
- > 9mm allen
- > Shop Rag / Towel

Install should take 1 hour to complete.

## STEP 1 - REMOVE PLASTIC COVER FROM ENGINE COMPARTMENT



Move the cover out of the way by taping it up or removing it completely.

## STEP 2 - REMOVE THE INTAKE MANIFOLD COVER



To make things easier you can unclip the engine harness and move it out of the way. (Not Required)



STEP 3 - LOCATE THE FUEL DAMPENER ON THE FUEL RETURN LINE



On the back of the motor you will find two fuel dampeners.

Towards the passenger side is the fuel **FEED** dampener. (DO NOT TOUCH)

The center of the motor is where the fuel **RETURN** dampener is.

(Highlighted in photos)

#### STEP 4 - REPLACE THE STOCK FUEL RETURN LINE



Using a 10mm wrench replace the stock return fuel line with the included billet fuel rail adapter. **DO NOT OVER TIGHTEN**

#### STEP 5 - MOUNTING THE ETHANOL SENSOR

- Using the ratchet and extension and replace the fuel line support bracket located on the firewall with the ethanol sensor bracket.
- Connect the 10.5” return line to the flex fuel sensor.

#### STEP 6 - CONNECTING THE FUEL RETURN LINE

- Connect the 3” return line to hard factory fuel line that’s located on the firewall, then to the ethanol sensor.
- **After the line has clicked into place pull back on it to ensure a good connection!**

STEP 7 - REMOVE PASSENGER SIDE COVERS



STEP 8 - OPEN IPDM (CANBUS CONNECTION)





## STEP 9 - CANBUS CONNECTION

Unplug the top left white connector by squeezing in the release tab

Plug the Visconti harness Y harness in to the IPDM and the original connector into the Visconti harness.

Route and secure the harness as pictured.



## STEP 10 - SECONDARY AIR PUMP CONNECTOR (POWER)

Next to the battery and the IDPM you'll find the secondary air pump. Unplug this flow sensor connector and plug the Visconti Y harness back into the sensor and the original connector into the Visconti harness.



## STEP 11 - FINAL MOUNTING OF CANBOXPRO / FLEX FUEL SENSOR

This is how everything should look after installation is completed



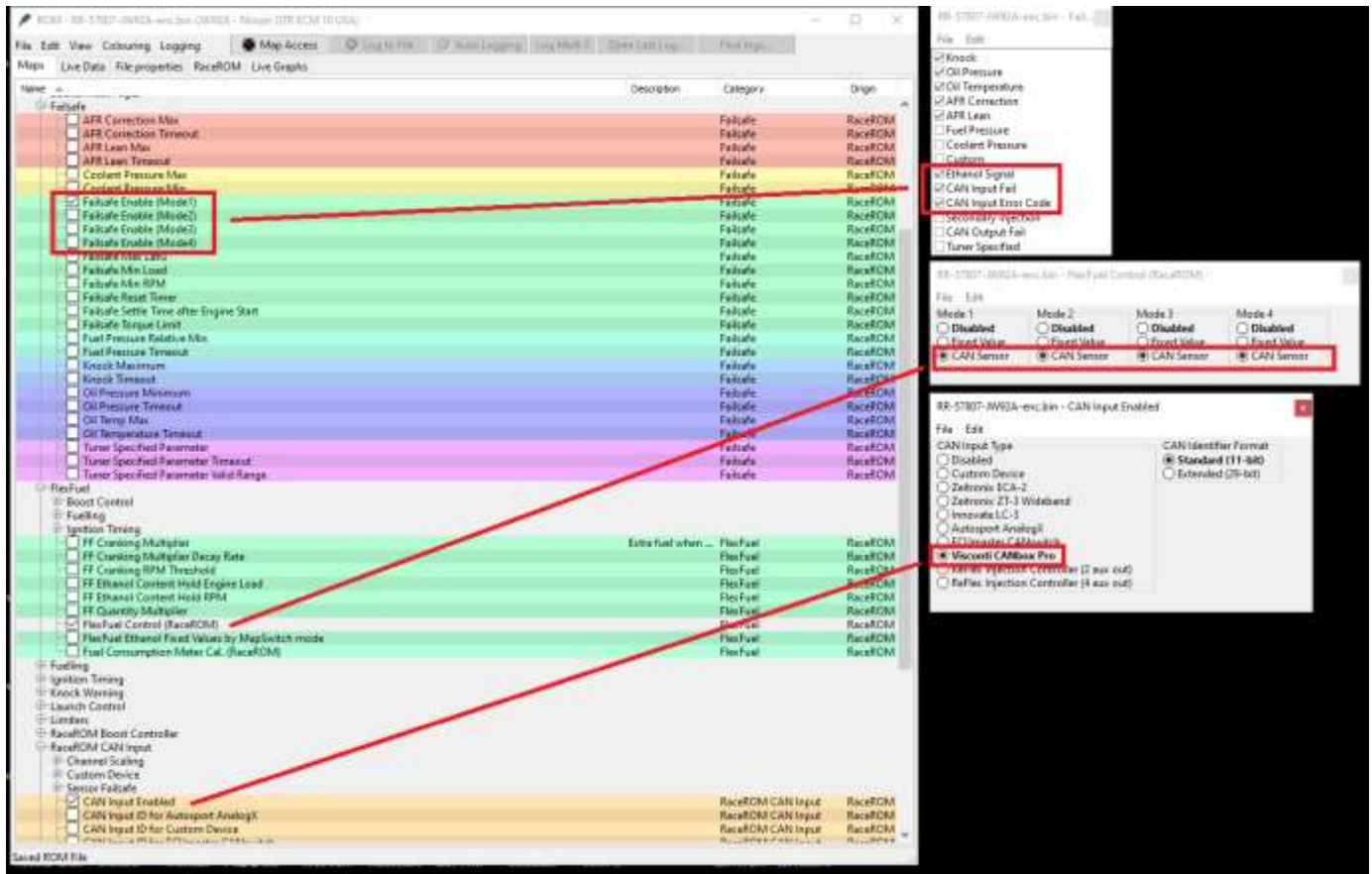


The CANBOX Pro sold in our NexGen GTR Flex Fuel Kit is preprogrammed for the GTR model. RaceROM is already configured to work with our CANBOX Pro hardware; you simply need to enable it.

1. RaceROM CAN Input > CAN Input Enabled > Select Visconti CANBox Pro.
2. RaceROM Failsafe > Enable Failsafe > Select CAN Ethanol Signal, CAN Input Fail & CAN Input Error Code.
3. RaceROM FlexFuel > FlexFuel Control (RaceROM) > Select CAN Sensor.

Under EcuTek Live Data, make sure CAN INPUT STATUS reads 0 when the car is running.

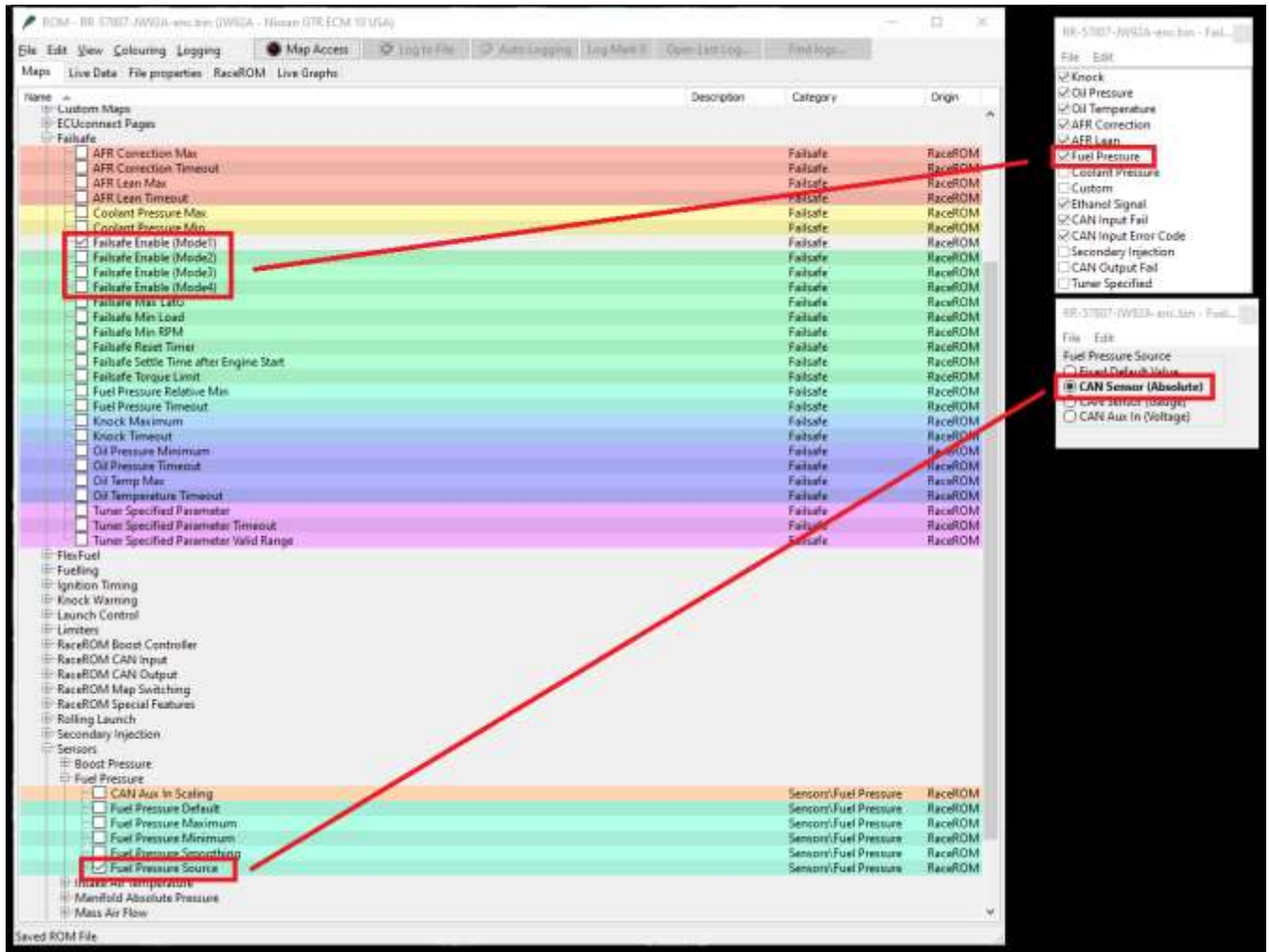
Any value greater than 0 will put the car into a failsafe mode.



NexGen Flex Fuel Kits sold with fuel pressure sensors are very easy to set up in RaceROM. RaceROM is preconfigured for a 0-150 PSI sensor that comes with our kit. If your CANBOX Pro did not come with the fuel pressure option, please reach out to Visconti Tuning to have fuel pressure enabled.

1. Go to Sensors > Fuel Pressure > Fuel Pressure Source, and select CAN Sensor (Absolute).
2. In RaceROM Failsafe, enable Failsafe and select Fuel Pressure.

Under EcuTek Live Data, check the Fuel Pressure Differential Pressure. If there is any doubt, you can add 'CAN Input Fuel Pressure Sensor' to see the actual fuel pressure."



We greatly appreciate any feedback, tips or tricks that are not covered in this guide. If you have any photos or comment that you think could be useful for others, please that information via email to john@vtune.us