

# Z1 ECUTEK TUNING (DIRECT TUNE DELIVERY) INSTALLATION MANUAL

**PROLOGUE:**

Study these instructions completely before proceeding to assembly. The installer must have a thorough knowledge of automotive systems operation. If unfamiliar with any of the concepts outlined in this instruction, we recommend the installation be completed by a qualified professional.

**WARNING!**

Extreme caution should be taken when performing maintenance or performance upgrades to your vehicle. Please observe and abide by any Warning or Caution labels placed on the various components and tools used when servicing your vehicle. If you have any questions regarding installation or the various components included with the Z1 Off-Road EcuTek Engine Tuning (Direct Tune Delivery), consult with a Professional Mechanic, or contact Z1 Off-Road for more information.

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**PARTS INCLUDED:**

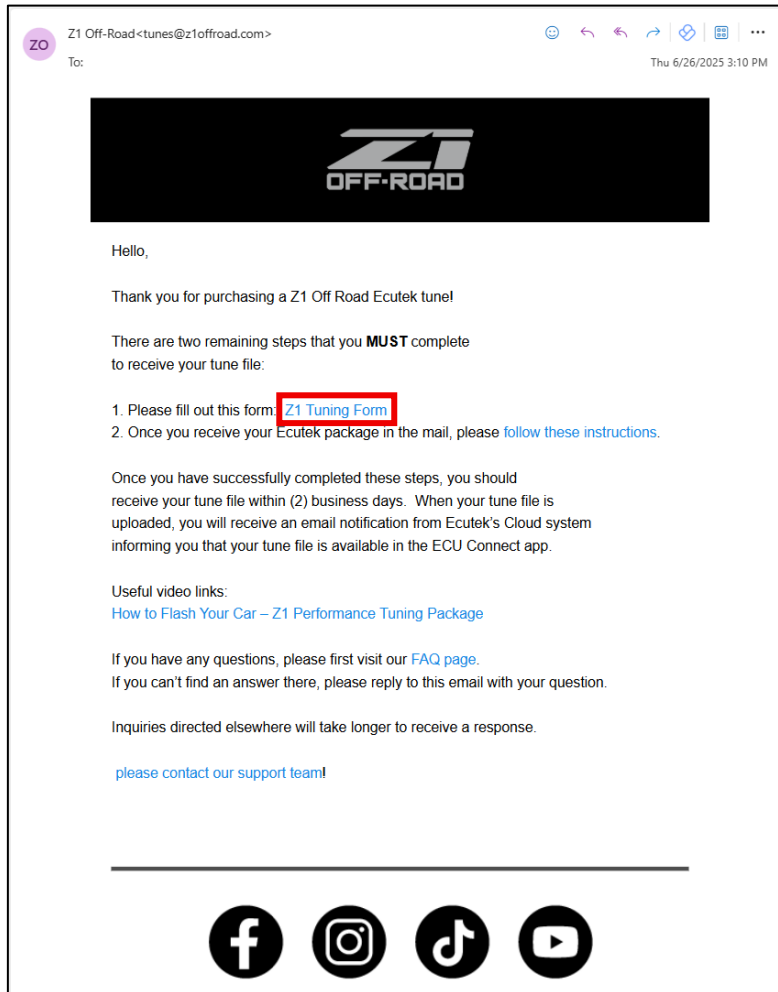
Item	Quantity	Description
1	1	Z1 by EcuTek Bluetooth connector

**BEFORE YOU BEGIN:**

**A BATTERY CHARGER IS NEEDED WHEN FLASHING THE VEHICLE. FLASHING TAKES A BIT LONGER ON THE OFFROAD VEHICLES. IF THE BATTERY VOLTAGE DROPS TOO MUCH, THE ECU WILL BE BRICKED. IT IS IMPERATIVE THAT A BATTERY CHARGER IS CONNECTED TO THE BATTERY THROUGHOUT THE ENTIRE PROCESS.**

## FILLING OUT THE Z1 TUNING FORM:

1. After purchasing a Z1 EcuTek tune you will receive an email with further instructions. Within the email click the link to the **Z1 Tuning Form**. *Figure 1*.



*Figure 1*

2. After clicking the link, you will be prompted to log into your Z1 Account. *Figure 2.*

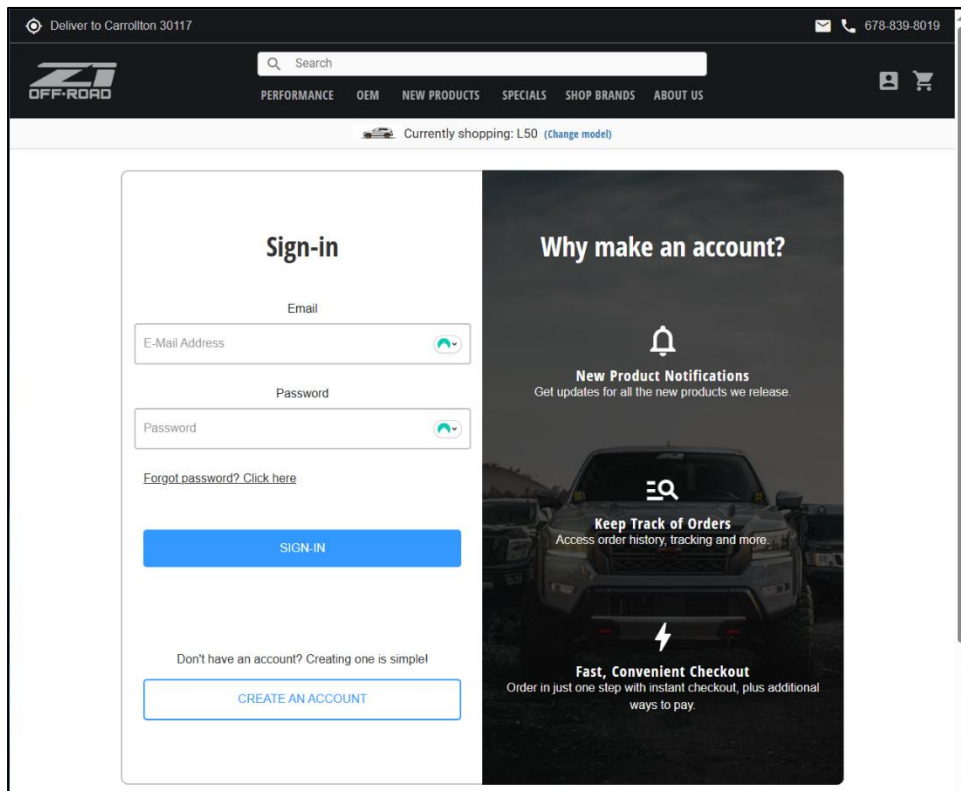


Figure 2

3. Once logged into your Z1 Account, you will arrive to the first page of the Z1 Tuning Form where you will need to confirm that you understand the requirements for a Level 2 Tune and enter your VIN. Once entered, click **Decode VIN**. *Figure 3.*

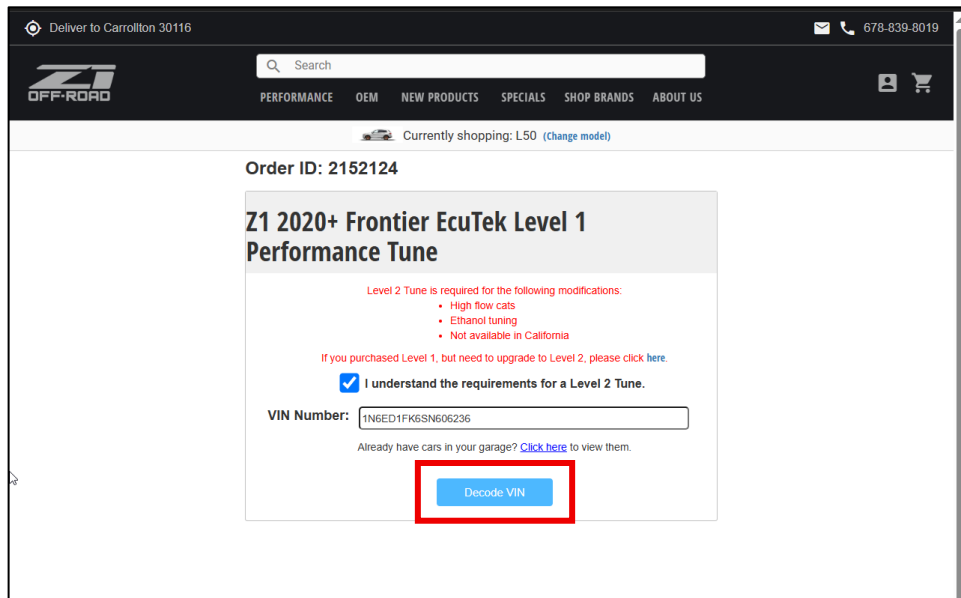


Figure 3

4. The next page is where you will fill out your vehicle's information. Fill out this form as accurately as possible, inaccurate information may cause delays. Click **Submit** once filled out. *Figure 4.*

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Currently shopping: L50 (Change model)

Order ID: 2152124

### Z1 2020+ Frontier EcuTek Level 1 Performance Tune

 **2025 NISSAN FRONTIER**  
VIN: 1N6ED1FK6SN606236  
Name: N/A

Not the right car? [Click here](#) to go back.

Miles:

Year:

Model:

Engine:

Modifications:

Figure 4

5. Your Information is now submitted, depending on your ROM will determine how long it takes to receive your tune. After the Z1 Tuning Team has reviewed your Z1 Tuning Form submission, you will receive a follow up email containing your EcuTek License Code which will be used in *Redeeming your EcuTek License Code and Flashing your Vehicle*. To flash your vehicle, follow the link to the **EcuTek Tune Install Guide** (which is this Guide... [Install Guide Inception](#)). *Figure 5.*

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Currently shopping: L50 (Change model)

## Congratulations!

Your tuning information has been successfully submitted!

- Supported / Common ROMS will receive tune file within 1-2 business days.
- Supported / Uncommon ROMS will receive tune file within 3 business days.
- Unsupported ROMS will require a ROM dump and may take up to 2 weeks for tune file to be available.

[Click here for the Ecutek tune install guide.](#)

Figure 5

# INSTALLING ECU CONNECT APP AND CREATING AN ECUTEK CLOUD ACCOUNT:

1. Install the ECU Connect app on your iOS or Android device. *Figure 6.*

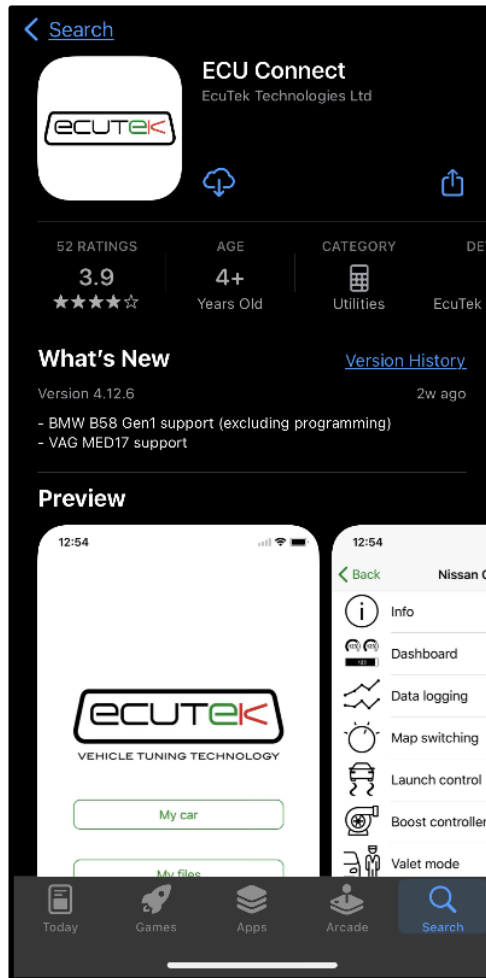


Figure 6

- Open the app. On its first use, you will need to select your tuner. Type in Z1 in the search bar, then select Z1 Motorsports. *Figure 7.*

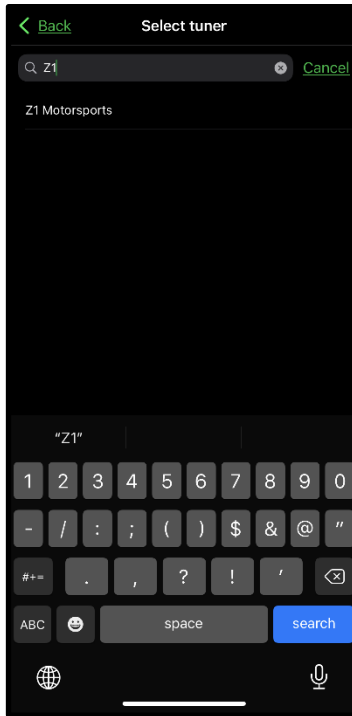


Figure 7

- Follow the prompts on screen to either create a new EcuTek Cloud Account or login to an existing one. *Figure 8.*

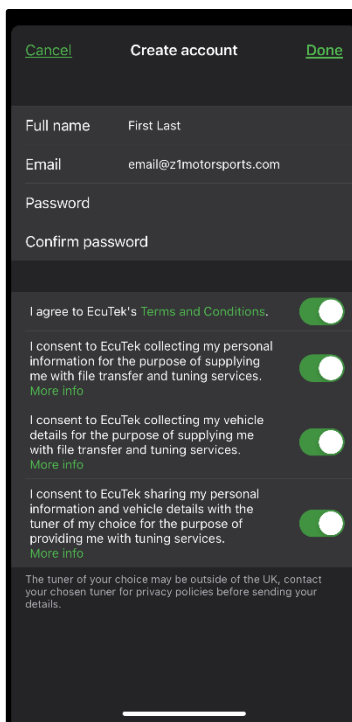


Figure 8

- Once complete, plug in your Z1 x EcuTek Bluetooth connector into your car's OBD2 port. Turn the ignition key to the **ON** position but DO NOT start the engine, for push button cars – press the start button without depressing the brake pedal. *Figure 9.*



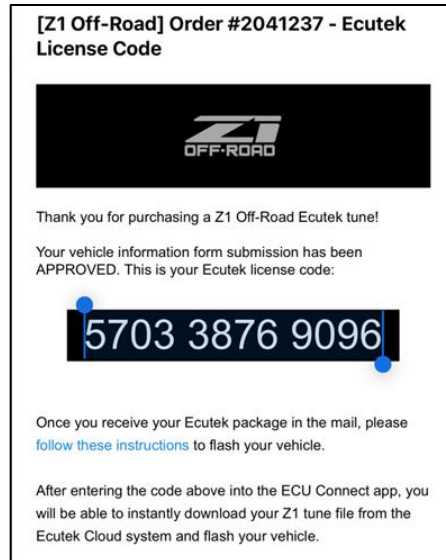
*Figure 9*

- Select **Continue** and follow the prompts on your device to go through the Bluetooth pairing process and setup a PIN.
- The setup process is now complete. Continue to the next section for retrieving vehicle information.

## **LEVEL 1 and LEVEL 2 – REDEEMING YOUR ECUTEK LICENSE CODE:**

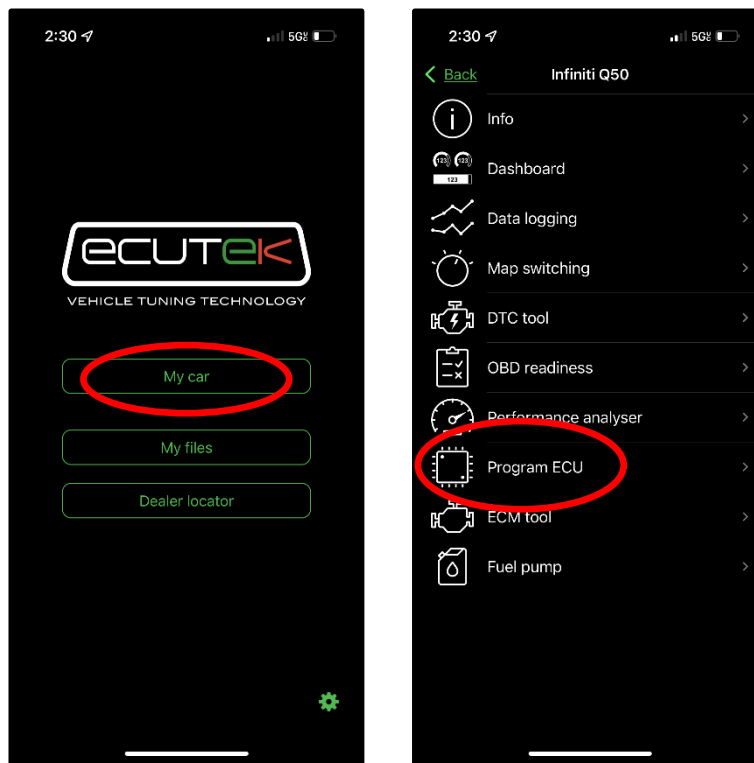
**NOTE:** If you purchased a *Level 2+* tune, proceed to the [next section](#) of this install guide.

1. Open the ECU Connect app. Ensure the Z1 x EcuTek Bluetooth connector is plugged into your vehicle and the ignition is turned to the **ON** position.
2. Check your email for the EcuTek Tune Code. *Figure 10*.



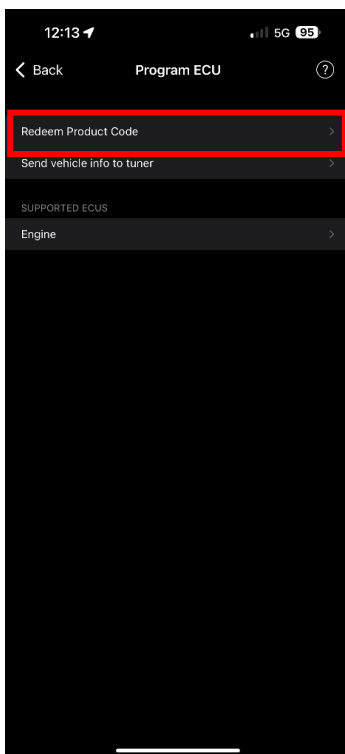
*Figure 10*

3. Open the **My car** section of the ECU Connect app and then select the **Program ECU** option. *Figure 11*.



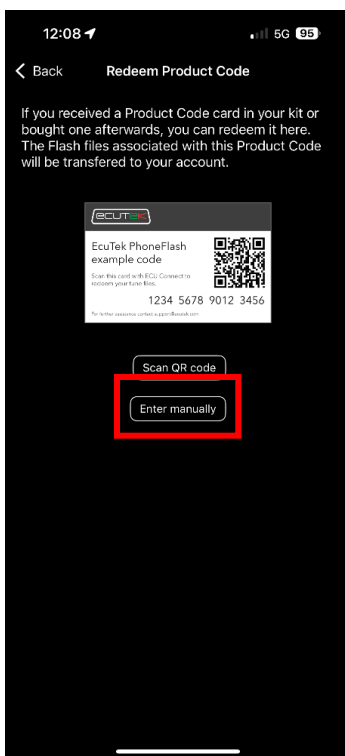
*Figure 11*

4. Select **Redeem Product Code**. *Figure 12.*



*Figure 12*

5. Select **Enter Manually**. *Figure 13.*



*Figure 13*

6. Enter in the Code you received in the email from *Step 2. Figure 14*

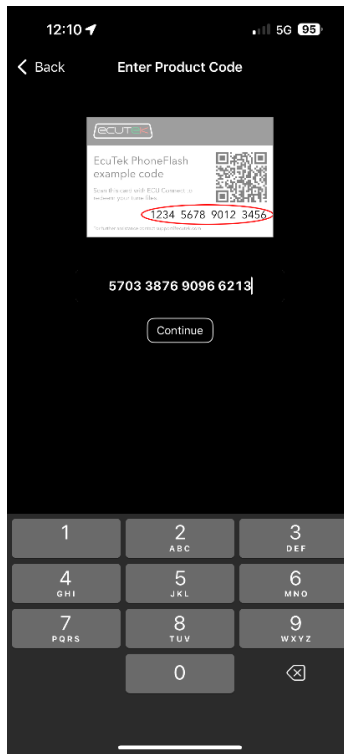


Figure 14

7. Fill out your Vehicle Information. *Figure 15.*

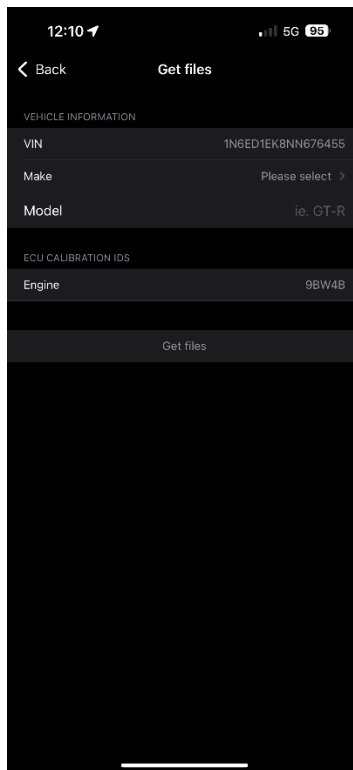
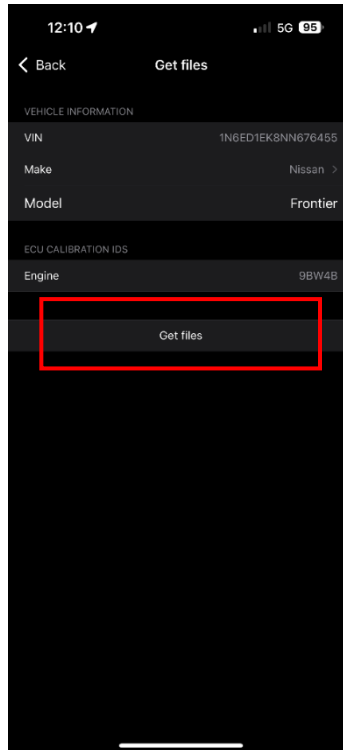


Figure 15

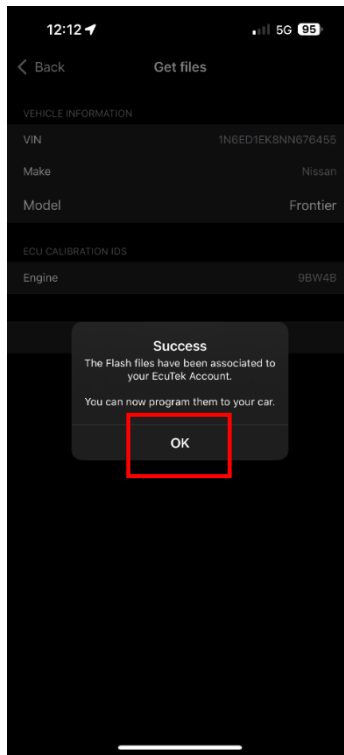
8. Once Vehicle Information is filled out, select **Get Files**. *Figure 16.*

**NOTE:** If you purchased a **TUNE THAT REQUIRES REVISIONS**, or if your vehicle has not yet been supported, there may not be any files for you to flash. In this case, when you select **Get Files**, an email will automatically be sent to the Z1 Tuning Team notifying us that you need a file. Once we have this email with your vehicle information, we will generate a file for you and let you know as soon as possible when it is available for download.



*Figure 16*

9. The app will now download the files from the EcuTek Cloud onto your device. Once the download has been completed, you will receive the message as shown below. Select **OK**, then **Back** at the top left of the screen. *Figure 17.*



*Figure 17*

## **LEVEL 2+ - SENDING YOUR VEHICLE INFORMATION TO Z1:**

**NOTE:** If you purchased a *Level 1* or *Level 2* tune, proceed to the [next section](#) of this Install Guide.

1. Open the ECU Connect App and select **My Car** to connect to your vehicle. Select **Program ECU**. *Figure 18.*

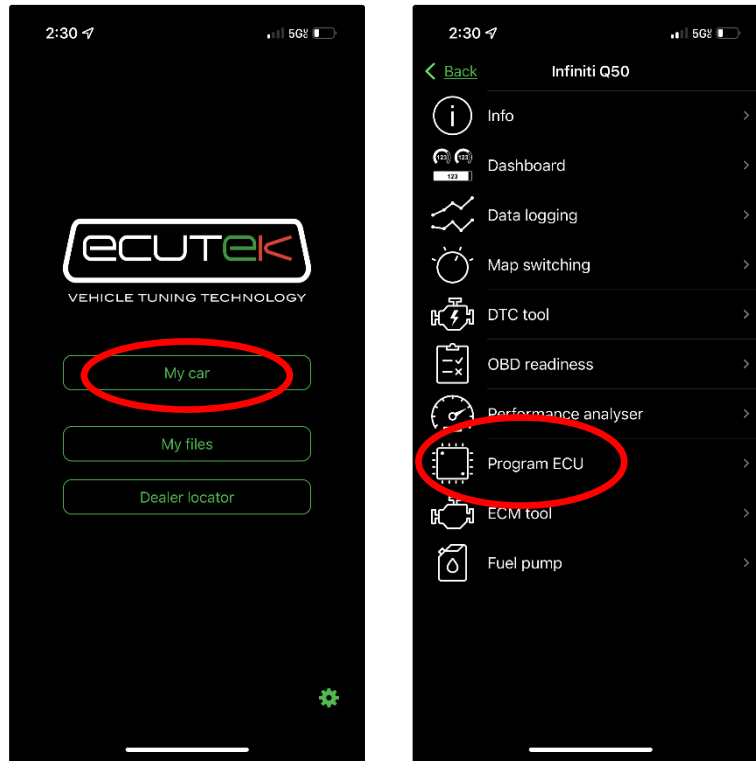
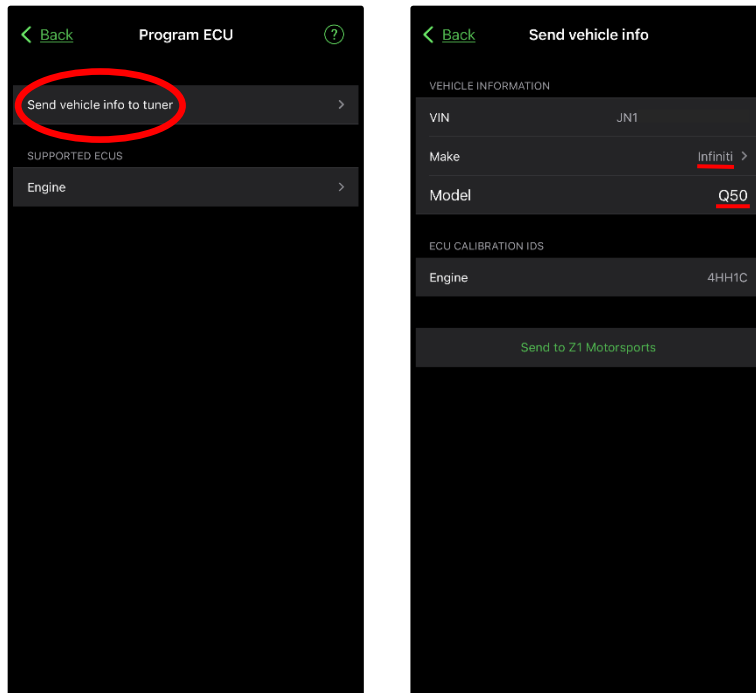


Figure 18

2. Select **Send vehicle info to tuner**, then enter your make and model. After select **Send to Z1 Motorsports**.  
*Figure 19.*



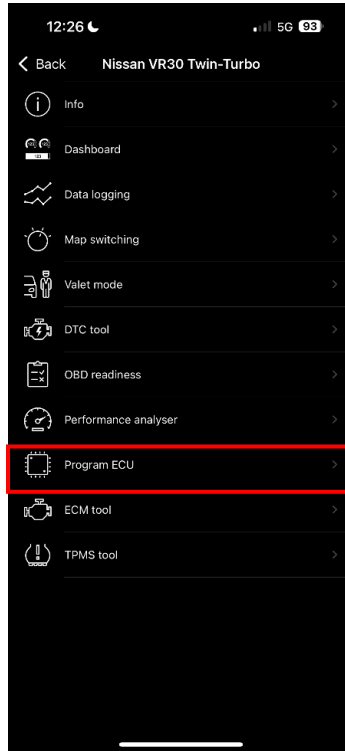
*Figure 19*

3. The Z1 Tuning Team will create a ROM File and upload it to your EcuTek account. Once uploaded to your account, you will be able to use the new file to reflash your ECU with the ECU Connect App.

## FLASHING YOUR VEHICLE:

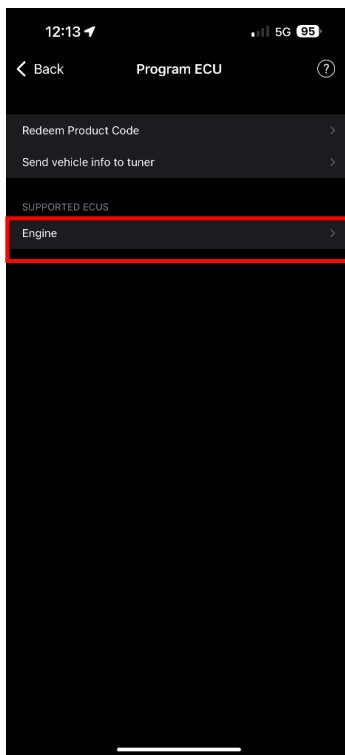
**NOTE:** *Level 1* and *Level 2* customers may proceed to the following steps immediately after redeeming your License Code. *Level 2+* customers will need to wait until the Z1 Tuning Team has uploaded a tune file to your account before you can flash your vehicle.

1. Once back on this screen, select **Program ECU** again. *Figure 20.*



*Figure 20*

2. Click on **Engine** under the *SUPPORTED ECUS* section. *Figure 21.*



*Figure 21*

- Under the **Tuned Files** section, you will be able to select the tune you would like to flash onto the ECU. These will be stored in the EcuTek app and can be swapped at any time. Choose your desired tune then continue to *Step 4. Figure 22.*

**NOTE:** If you ever need to flash back to the original factory tune, select the file labeled **STOCK** under the **Stock Files** section.

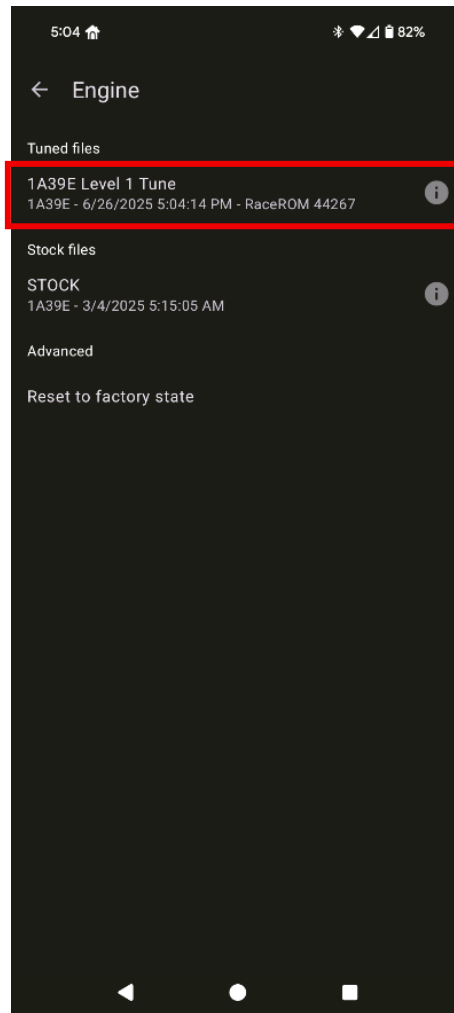
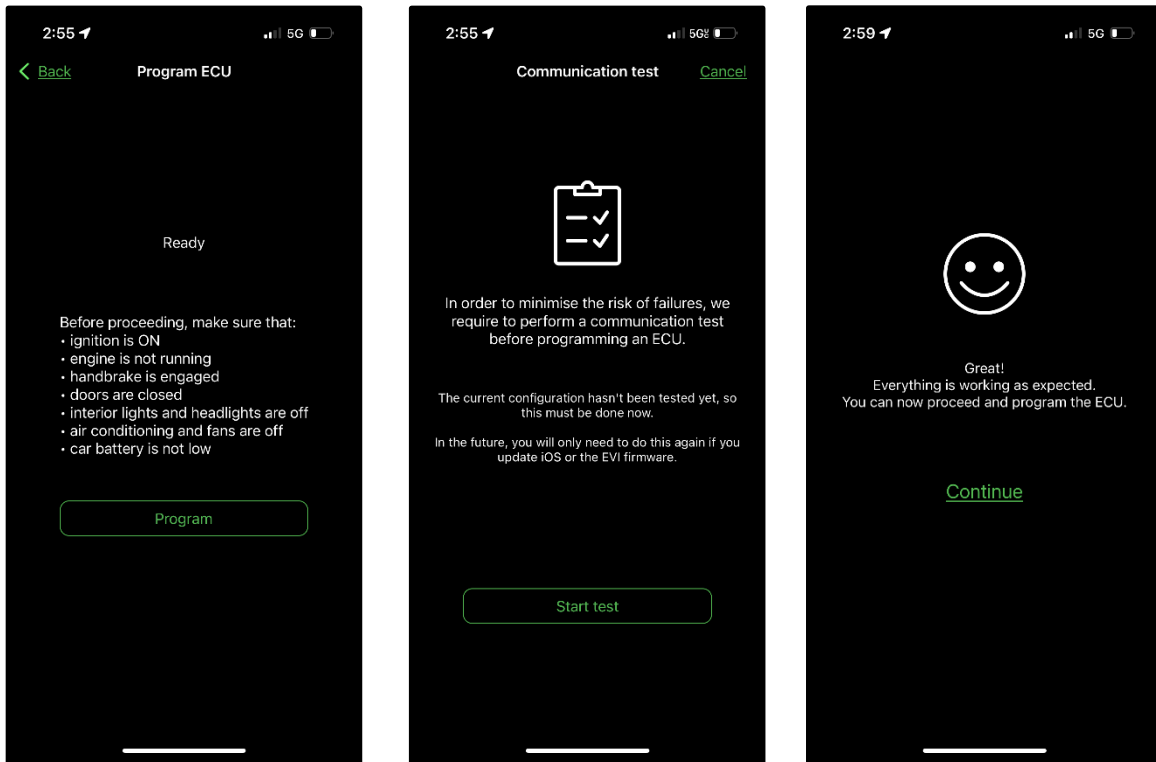


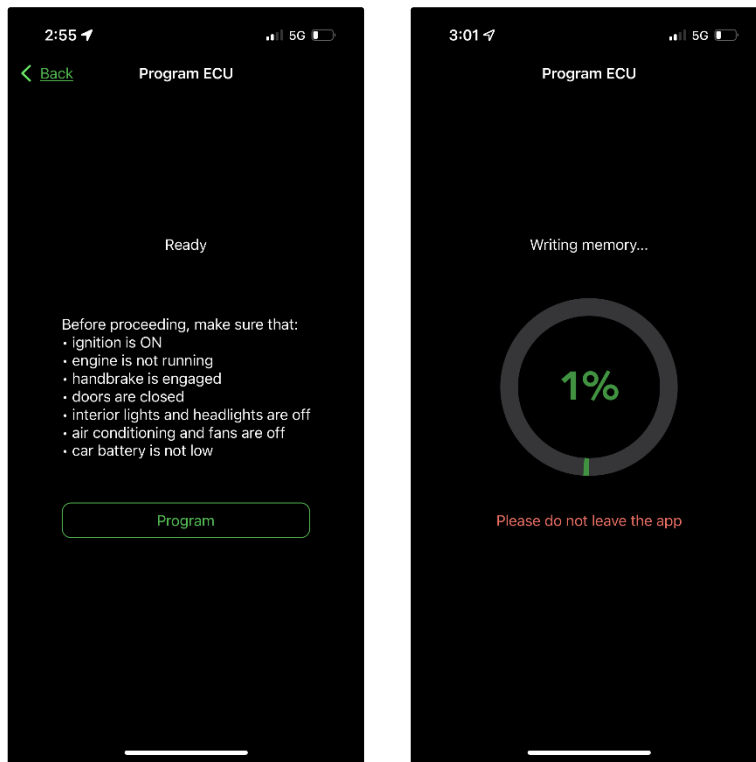
Figure 22

4. Select **Program** and then **Start Test** to begin the communication test. This will take ~5 minutes to complete, then select **Continue**. *Figure 23.*



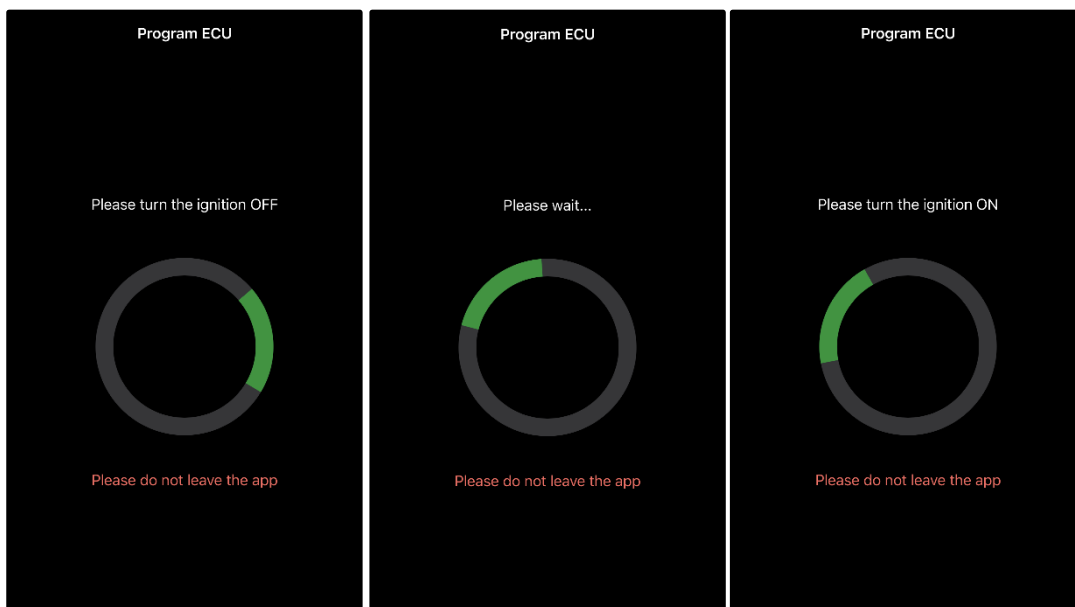
*Figure 23*

5. Now it is time to flash the ECU, select **Program** once again to begin the process. *Figure 24.*



*Figure 24*

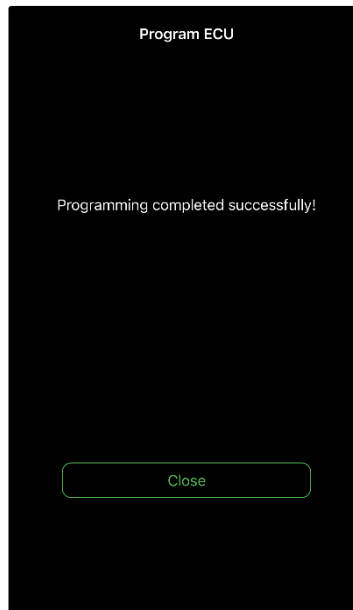
6. When prompted, turn the ignition off. Wait a few seconds, and when prompted again, turn the ignition back on. **DO NOT** start the engine during this time, just turn the key to the **ON** position. For push button cars, ensure the brake pedal is not depressed when doing this. *Figure 25.*



*Figure 25*

- Once complete, you will be shown a **Programming Completed Successfully!** message. Select close, and you can now start your vehicle and take it for a test drive. *Figure 26.*

**NOTE:** Map switching with EcuTek will cause TCM codes, Limp Mode, and other error lights to pop up on the dash, this is normal. Clear the codes within the DTC Section of the EcuTek app after selecting the map you want to run to solve the issue.



*Figure 26*

**END**

**Additional Technical Support:**  
Contact Z1 Off-Road at [info@z1offroad.com](mailto:info@z1offroad.com)  
Or call 678-839-8019 between 9am and 6pm ET