Screamin' Eagle EFI Race Tuner Programming Failures

The following process only works when using Digital Tech I. <u>DO NOT</u> attempt to recover any ECM's using DTII. Once a process has been established for recovering ECM"S using DTII it will be communicated to the dealer network.

This process will explain how to recover a 2001 to present Delphi ECM that has encountered an interuption when being reflashed and now will not let you reflash it again. Please follow this procedure before you replace the ECM as the majority of the returned ECM's **can** be recovered and do not require replacement.
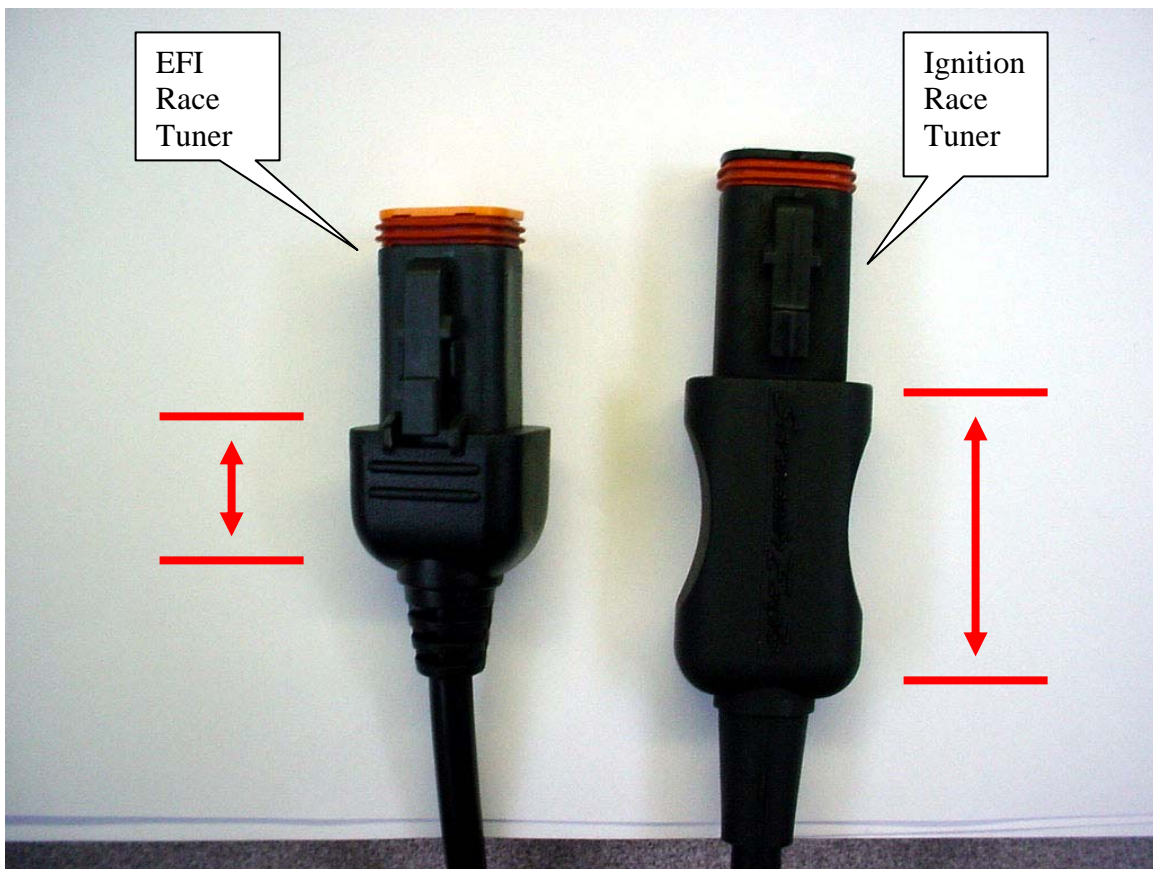
Common Reasons for Programming Failures Include:
- Low battery voltage on the motorcycle
- AC power cord not plugged into the computer
- Connections not being fully mated
- Not allowing the ECM the 10 second wake up period before reflashing
- Incorrect cables being used (EFI Race Tuner and Ignition Race Tuners use different cables, **Using the Ignition Tuner Cable on an EFI Race Tuner Link will damage the tuning key.** (see the picture below to identify the cables)
- Incorrect MAP's trying to be installed (See chart below)

1. Try to reflash an OE (non-chargeable) calibration into the ECM using Digital Technician.

- If the ECM accepts the reflash then you may continue to program with the EFI Race Tuner.

- If Digital Technician hangs up on the "Accessing Information from ECM / ICM…" screen then the internal information that Digital Technician is looking for has been erased and you will need to continue with this process.

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2. Next you need to determine which ECM you have. To this date we have had 4 different ECM part numbers which are 32772-01, 32534-05, 32534-05A & 32534-05B. These are the internal part numbers that would show up on Digital Technician however the part number on the sticker of the ECM may be different. An easy way to figure this out is to look at the last two numbers on the sticker. If they are 01, 02, 03 or 04 then it is the 32772-01 ECM, 05 is the 32534-05 ECM, 06 is the 32534-05A ECM and 07 is the 32534-05B ECM.

3. Now you will need to find another ECM with the same part number. It can be one on another motorcycle or a known good ECM that you have in the shop.

4. If you are using an ECM that is on another motorcycle then remove the ECM from the bike that has the failure and unbolt the ECM from the good bike so it can be disconnected later in this process. If you have a test ECM then unbolt and remove the "Blanked" ECM from the motorcycle, unplug it and plug in the good ECM.

5. Digital Technician should have the VIN number from the bike being worked on allready in it since you tried to reflash it in step 1. Keep that VIN number in place and connect Digital Technician.

6. This step is the important one! You will go to "Reflash" and pick the OE (non-chargeable) calibration and click the green checkmark. Continue with the reflash process until you reach the screen with the ECM information on it (this will appear right after the "Accessing Information from ECM / ICM…" screen). At this point you will disconnect the ECM and plug in the "Blanked" ECM, you need to do this quickly so Digital Technician does not loose communication. After this is done simply click the green checkmark and the download will go into the ECM and you will have a working ECM again. b

Helpful Information

The reason there are different Tuning Map's for different years is because of the ECM changes. Bottom line the year of the motorcycle does not matter, the ECM part number does.

ECM Part #	MAP Folder
32772-01	MY2001-2004
32534-05	MY2005-2006
32534-05A	MY2005-2006
32534-05B	MY2007

This does not mean that the -05B ECM will not work on a 2001 motorcycle, it will work; it just means that you need to use the appropriate tuning file.

The next CD release of EFI Race Tuner will also allow the MY2005-2006 calibrations to be loaded into the 32534-05B ECM's.