



## Firmware and Software Installation Instructions

### IMPORTANT NOTES:

- **LAPTOP USERS:** For this firmware installation, you **MUST** plug your laptop into a 120 VAC wall outlet using your laptop's AC adaptor. Running your laptop from its batteries may cause serious problems to the TEC3.
- The firmware upgrade process will ERASE the calibration (.bin) file that is loaded in the TEC3. If you do not have a copy of the .bin file outside the TEC3 you will need to make a new calibration file after the firmware upgrade.
- The fuel pump relay ground (G20) will connect to ground during the firmware upgrade process (approximately 1 minute 30 seconds). If you have wired your fuel pump using this switch, the fuel pump will turn on during the firmware upgrade. Take appropriate measures to prevent this from causing problems.

### Step 1.

The first step is to preserve your current installation and bin files. If this is the first time you are installing any version WinTEC3 software on this computer, then proceed to Step 2. The software will install into C:\Program Files\WinTEC3 by default. If you have a previous version on this computer, that directory will probably already exist. Since you may want to keep a copy of that install just rename the WinTEC3 folder to something such as WinTEC3x. To rename a folder in Windows, simply right click on it from Windows Explorer and select Rename. You may also want to make a copy of your bin files and store them somewhere else, possibly a floppy, a CD, or another computer. Try to retain a folder of "good" BIN files (and preferably the .S19 files as well) that have never been opened with the new software.

### Step 2.

Unplug the black (or white if a 6/12 unit) connector from the TEC3 during the Firmware upgrade. The upgrade process may cause some outputs to turn on momentarily.

### Step 3.

Insert the CD labeled 3.3.87 into your CD-ROM drive. Using Windows Explorer, go to your CD drive and double click the setup.exe file. Follow the on screen instructions.

If you downloaded the zip file from the web, uncompress the files and save them in a temporary directory. Double click the setup.exe file, and follow the on screen instructions.

### Step 4.

Open the WinTEC3 3.3.87 software. Verify the new version is running by observing "Version 3.3.87" on the first screen that appears when you open the software. Connect the laptop or PC to the TEC3 unit. If using a laptop, you **MUST** power the laptop using the AC wall adaptor. Using battery power alone has caused severe problems with units.

### Step 5.

Turn the key ON. Verify the TEC3 is functioning properly by observing a green light on the TEC3 unit.

#### Step 6.

From the WinTEC3 Main Menu, select Edit a Calibration File. Select the calibration file you would like to load when you perform the firmware upgrade. You will see a message box explaining that you must perform a firmware upgrade. Select Ok. From the Calibration Screen, select Save Bin File As. You can keep it the same name or rename it. Select Save. Select Back or hit ESC to return to the Main Menu.

#### Step 7.

From the WinTEC3 Main Menu, click the TEC3 Firmware Upgrade button. Once reading the yellow warning message, click OK. When the Open File box appears, either go to your CD drive (if you used the CD), or go to the folder where you downloaded the files and select the file, "wt303t3.EM3". Click Open.

#### Step 8.

The file will begin to download. Be patient. After several seconds, a status bar will appear to indicate the download progress. The download will take approximately 1 minute and 20 seconds. When the download is complete, you will see a yellow message stating "TURN KEY OFF AFTER DOWNLOAD COMPLETE". If after 3 minutes you do not see a message, or the status bar stops increasing, contact Electromotive. During the process the LED on the TEC3 may be either red or green.

**\*\*Software Installation Alert:** We have found during testing that in a very small percentage (5%) of installations, upon downloading the firmware upgrade to the TEC3, the unit will lock-up (static red light on unit). PC hardware inconsistencies and other issues are the cause.

Error Description: While downloading the firmware, you may get an 'Error' box which states, "Invalid Serial Number: Please Contact Electromotive Technical Support". If you click "OK" you will return to the Main Menu, but your TEC3 has become corrupted. If you "Key Off" and then "Key ON", the LED on your TEC3 unit will remain solid red.

While this anomaly will be fixed soon, we did not want to delay releasing this valuable upgrade. Should your TEC be one of these few units, it will have to be shipped to the factory for the firmware and software installation. We will give you a one-day turnaround however the shipping will be the responsibility of the user.

#### Step 9.

When the "TURN KEY OFF AFTER DOWNLOAD COMPLETE" message appears, turn the key OFF then click Next.

#### Step 10.

You should see another message stating "TURN KEY ON". Turn the key ON then click Next. Verify that you get a green light on the TEC3 unit.

#### Step 11.

The bin file that you previously opened will be downloaded to the TEC3. After the bin file was successfully downloaded, turn the key OFF and back ON. Verify that you get a green light.

#### Step 12.

Turn off the key OFF and plug in the black connector (white connector if a 6/12 or TEC3r unit). Turn the key on. You are now ready to run.