

# CodeSHOOTER™

## USER MANUAL

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1. Open CodeShooter™ box which will contain:
  - a. CodeShooter Device
  - b. Model specific diagnostic/flash cable
2. Download App. Search “CodeShooter” in the Google Play Store
3. Turn on your device’s Bluetooth connection
  - a. If a stable WiFi network is available, connect the phone to the WiFi.
  - b. WiFi data connectivity is the fastest and most reliable when transferring files from our server.  
A slow WiFi connection or poor cell service (3G or lower) may cause download errors or downloads unavailable all together.
  - c. If the data speed or cell service is not sufficient, the app communication will have errors and will not function properly.



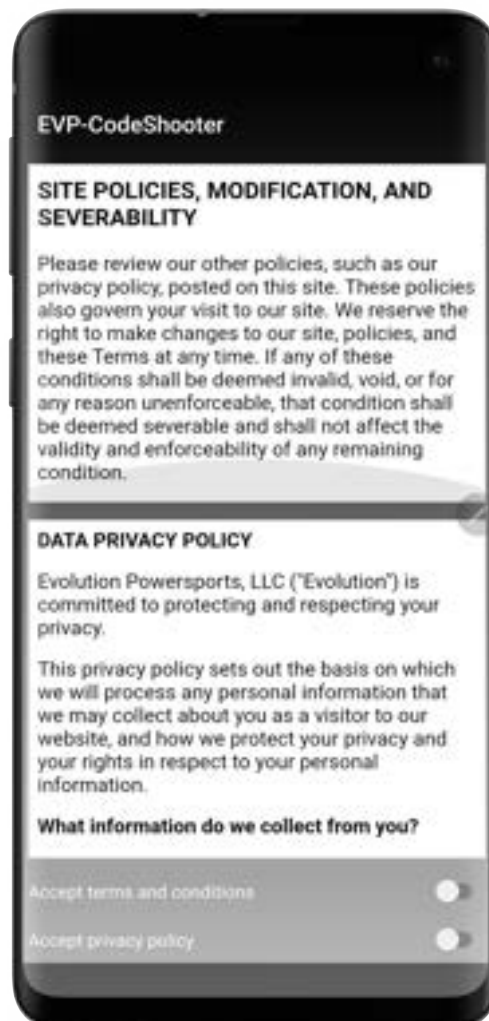
4. Select CodeShooter vehicle specific RJ45 to OEM diagnostic plug cable
  - a. For Can-Am:
    - CS-BRP-1 is for Maverick X3 and any vehicle with an electronic DESS key
    - CS-BRP-2 is for Can-Am vehicles that use a physical key that gets inserted and turned on to start the vehicle
  - b. For Polaris there is only one cable: CS-POL-1
5. Plug RJ45 cable into CodeShooter & into vehicle's diagnostic port
  - a. Can-Am X3 2017-2018: Located under glove compartment cover
  - b. Can-Am X3 2019+: Located near fuse panel in center of dash
  - c. Polaris XP 1000/Turbo 2016-2020: Located under the hood in front by the firewall
  - d. Polaris Pro XP: Located under steering column
6. Insert Key and turn ignition on (vehicle not running) but lights on the dash illuminated
7. Open the CodeShooter app and select the CodeShooter™ serial number from the available devices:



8. Review and accept Term and Conditions and Privacy Policy, if prompted
9. Once you enter the app, the app may automatically do a firmware update
  - a. DO NOT DISTURB firmware update process
  - b. Leave CodeShooter™ plugged in to the vehicle. Do not turn ignition key off.
10. Once firmware has been completed the CodeShooter will lose connection and you will be brought back to app main page
11. Select CodeShooter Serial Number from the available devices like in Step 7

## IMPORTANT – PLEASE NOTE

- Turn off all high-draw devices or accessories during the flashing procedure
  - Make sure battery has a sufficient charge ABOVE 11.3 volts
    - If less than 11 volts the ECU Flash may not begin flashing. If it does start to flash, it can fail, and subsequent recovery attempts will fail as well.
12. The CodeShooter will automatically connect to and analyze the vehicles ECU type/software ID, VIN number etc. and transmit the information to our server. The server determines the compatible software that is available and transmits this data back to the app. At this point the different tuning files are shown and can be downloaded.





On the main “Tuning” page of the App, you can see:

- a. **CodeShooter Serial Number:** S/N: 50001XXX
- b. **VIN:** 17-Digit Vehicle ID Number
- c. **ECU:** Status of ECU
- d. **MSG:** Battery Voltage, Ecu Flash process, Etc.
- e. **INFO Button:** shows specific information about vehicle’s ECU info such as VIN number, software ID, hardware ID, etc.
- f. **Refresh:** The refresh button may need to be pressed a few times to communicate with the ECU. If the ECU status is “disconnected” and no files are shown, this will manually refresh the communication between the ECU and App.

13. Choose the tune that corresponds with your vehicle’s installed hardware and fuel octane rating

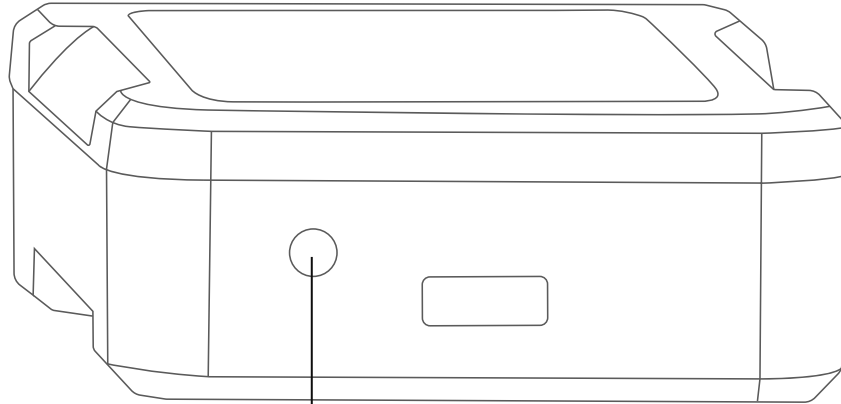
- a. There may be files that are “greyed” out that you can see but not download. These files are available to download once the specific hardware is purchased. Please contact [givemepower@evopowersports.com](mailto:givemepower@evopowersports.com) to purchase the required hardware and to get the software unlocked.

14. When you select the file you want to download, the “File Information” page will appear before you can download the file
- It is IMPORTANT to read the “File Information” which comes up when you select a specific tune file prior to downloading it from our server.
  - The “File Information” explains the specific hardware that must be installed on the vehicle in order for the software to work properly. It will also explain any specific changes that need to be made to the vehicle, octane rating, etc.
  - Once you have verified the hardware on the vehicle matches the software that you are attempting to download, press “Go for it!” to download the file.
  - If you have selected the incorrect file, select “Cancel”



15. The tuning file will be downloaded from our server, uploaded to the CodeShooter device and the CodeShooter will automatically start to flash the vehicles ECU
  - a. Depending on internet speed and device type this file transfer takes approximately 30-60 seconds\* for file to be transmitted to the CodeShooter and an additional ~ 3 minutes to flash the vehicles ECU.  
*\*On Select Android phones, this download can take 3-5 minutes plus ~ 3 minutes to flash the vehicles ECU. See notes at the end of this manual regarding the different Samsung phones that are affected by slow transmission speeds.*
  
16. There will be different messages that show up un the MSG area explaining the different steps of the flash procedure and when it is completed, it will indicate the flashing is DONE
  - a. Once flashing begins, the CodeShooter LED will start blinking Yellow/Blue indicating it is flashing the ECU. At this point the phone/app is only receiving data from the CodeShooter.
  - b. The phone/App can lose connection with the CodeShooter and the CodeShooter will work independently. After about 3 minutes and when the flash is complete, the LED will blink 90% Green/10% White and this indicates the flash was installed successfully.
  - c. Follow the message prompts from the CodeShooter App. The message may tell you to do a power cycle of the CodeShooter Device. This can be done by turning off the ignition or disconnecting the CodeShooter from the vehicle all together then reconnect it. The CodeShooter will automatically try and recover the ECU but if the battery voltage is low, the CodeShooter may not be able to recover it. Install a battery charger on the battery if the battery voltage is too low. DO NOT connect the CodeShooter to ANY OTHER VEHICLE until the ECU has been restored successfully. If the flash fails after all recovery attempts, contact out Tech Support for further guidance.

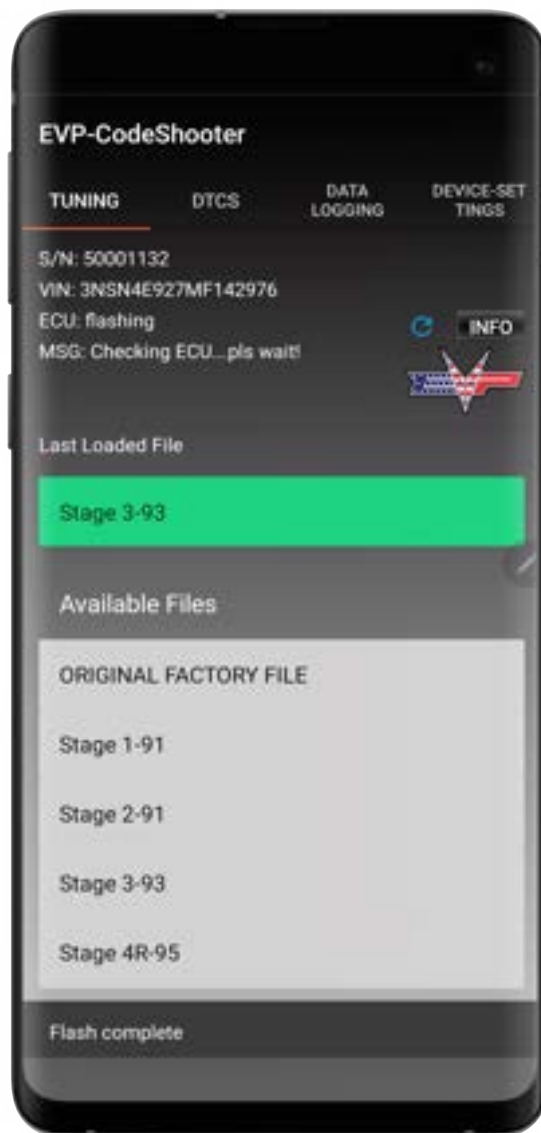
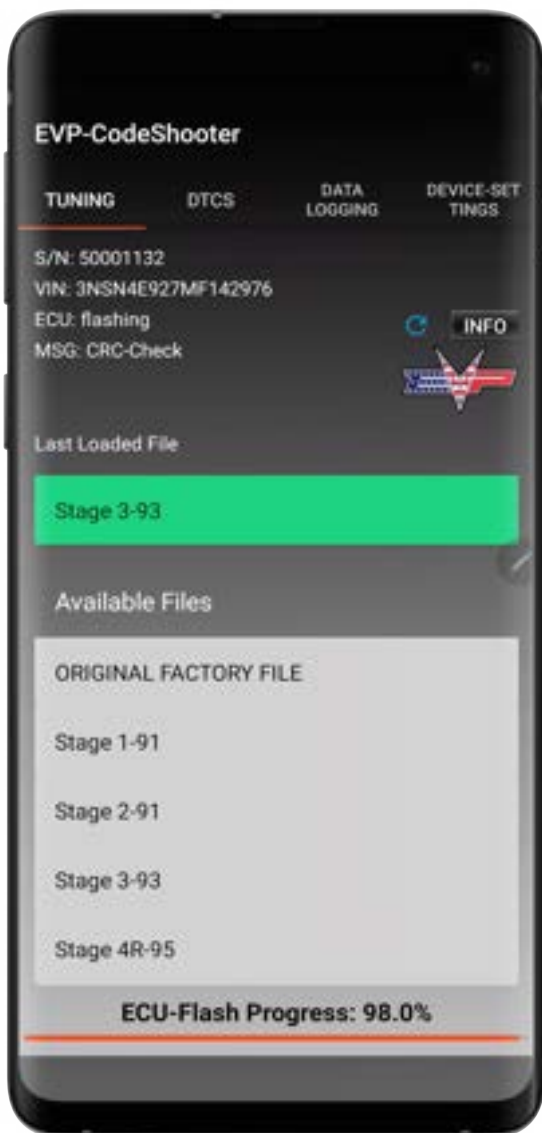
## LIGHT FUNCTIONALITY



### KEY

- CodeShooter is busy with the current download
- Standby / Ready - Connected to app
- ▬ Standby / Ready - Waiting for connection to App & vehicle ECU
- Flashing ECU
- Recover ECU mode
- Last action / Flashing successful
- Firmware updating
- Initial connection - Self-test during power-up
- ▬ CodeShooter not connected to App - CodeShooter has successfully read ECU-Data OR successfully flashed ECU
- ▬ Flashing failed
- CodeShooter Error

17. **On Polaris Vehicles:** After flash is successfully installed, Key-Off ignition, wait 5 seconds and key back on prior to starting the vehicle. This will reset the EPS module.





18. Can Am Dash Flash – If you have purchased our Dash Flash program, a dash icon will appear which allows you to select the “ECU or DASH” by sliding this icon left or right. This will toggle between communication between the ECU or DASH. When you select “DASH” CodeShooter will scan this controller and allow you to select the model specific flash file to install into the DASH.

- a. Select the file you want to download, the “File Information” page will appear before you can download the file
- b. It is IMPORTANT to read the “File Information” which comes up when you select a specific tune file prior to downloading it from our server.
- c. The “File Information” explains the specific hardware that must be installed on the vehicle in order for the software to work properly. It will also explain any specific changes that need to be made to the vehicle, etc.
- d. Once you have verified the hardware on the vehicle matches the software that you are attempting to download, press “Go for it!” to download the file.
- e. If you have selected the incorrect file, select “Cancel”
- d. File will be downloaded from our server and automatically flashed into the DASH controller.



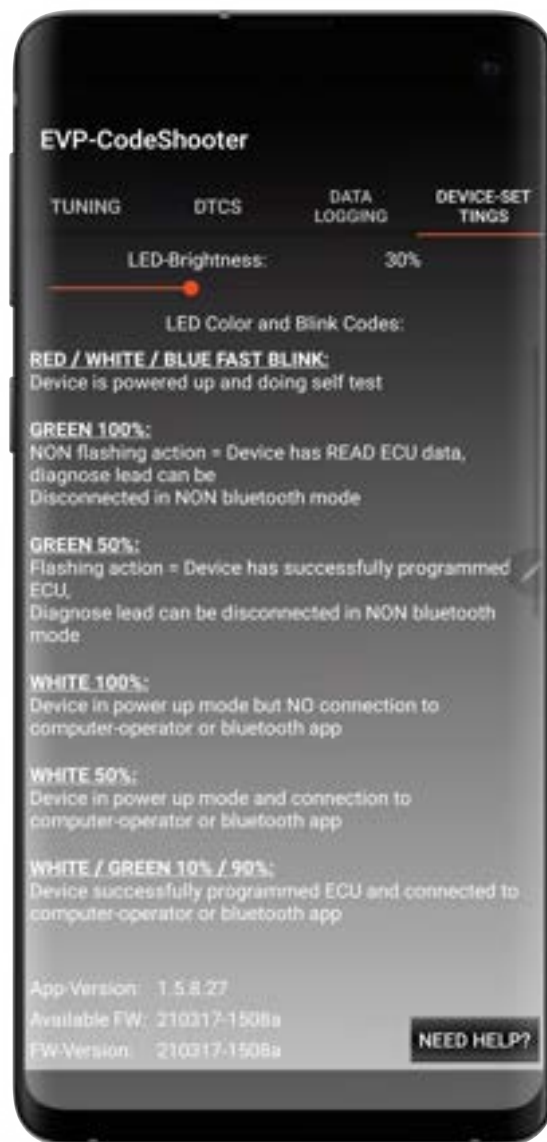
19. When you select the DTC icon on the bottom of the App, you can read and clear DTC's



20. When you select the Data Logging Icon to the right of DTC's you can view the engine data in real time.



21. The Device-Settings Icon to the far right has a few additional options
- a. You can change the brightness LED light by sliding the dot L or R
  - b. There is an explanation of the different LED light behaviors
  - c. Need Help Button: Has our contact information
  - d. Available FW: Has the serial number of the firmware that is on our server
  - e. FW-Version: This is the firmware version on your specific CodeShooter
  - f. If for some reason, the firmware available and version don't match, you can press "Reflash Firmware" to manually install the latest firmware.



## ADJUSTABLE LAUNCH CONTROL

1. To operate launch control, the following conditions must be met:

- The vehicle must be stationary.
- The launch switch must be pressed to the up position.
- Belt engagement must be above 2300 RPM (preferably 2500 RPM)
- The brake must be pressed – it is best to hold the brake hard so if the belt engages, the vehicle is not creeping forward. (Taillights must be working. If taillights are not working, Launch Control will not work.)
- The gas pedal must be pressed 100%.



2. When all criteria are met in step 1, this will enable the vehicle to enter “Launch Mode”. Launch Mode allows you to build boost prior to launch. Boost pressure will climb during staging within 3 seconds. Holding the vehicle in launch mode longer than about 3 seconds will not make it build more boost. It will plateau and hold. When the brake is released, the vehicle will come out of launch mode and will run normally. **Launch Mode will enable the vehicle to accelerate MUCH faster than a non-launch equipped vehicle – be prepared. USE AT YOUR OWN RISK!**

- “Launch RPM” is self-explanatory. Increase or decrease the RPM to change the internal ECU logic to set the RPM cut higher or lower. Move the slider “+” or “-” to increase or decrease this value or use the slider button left or right to change this from 2200-4200rpm.
- The “Launch Control Fine Tuning” +/- should not need to be changed on 95% of the applications. The only time this should be changed is if you have a relatively high launch RPM (above 3500 RPMS) and you are having issues controlling the launch RPM’s. You may need to lower this setting to help prevent the stall RPM from being exceeded. Another reason for changing this is on bigger turbo systems with a high launch RPM. You may need to raise or lower this setting to achieve the desired boost pressure / launch control characteristics

- The “Launch Control Status” button will change to yellow when transmitting the data to the ECU. When it is green, the ECU is ready / set

3. Hotter temperatures and higher elevation may degrade the amount of boost that can be built with a stock clutch and the 2300 rpm clutch engagement. An advantage to CodeShooter is the adjustable rpm and boost options in the application. NOTE: The adjustable RPM settings in the app MUST match your clutch engagement RPM. If you set the app higher than the actual clutch engagement RPM, damage to the clutch and CVT belt will occur. USE AT YOUR OWN RISK!

4. It is very important not to hold the vehicle in staging for long periods of time as can be hard on the engines valvetrain. Use it sparingly. EVP bears no responsibility any damage to the engine and/or drivetrain as the result of using this product. USE AT YOUR OWN RISK!

5. Launch control will cause more wear and tear on your primary clutch and belt. Expect this. Although the factory primary clutch is very durable, it is possible to break the clutch with continuous hard launches. STM and other Billet clutches are more durable for racing and/or launch control equipped vehicles. USE AT YOUR OWN RISK!

If there are any technical questions, please contact our Codeshooter help line direct at:  
715-248-5163 or email [cshelp@evopowersports.com](mailto:cshelp@evopowersports.com)

## IMPORTANT - PLEASE NOTE

- CodeShooter must be kept in a waterproof area. Exposure to water will damage the electronic components.
- CodeShooter should remain unplugged from the vehicle when not in use. If it is left plugged into the diagnostic port without the vehicle running, the constant LED light will drain the vehicles battery within 24-36 hours. We are working on a low power mode so it can be left connected, but this is not implemented now.
- WiFi data connectivity is fastest and most reliable when transferring files from our server. Slow WiFi or poor cell service (3G) may cause download errors or downloads unavailable all together. If the data speed or cell service is not sufficient, the app communication will have errors and will not function properly.

**Samsung Android Notes:** *Samsung Galaxy S10, S10 Note and All S20/S21 phones have a factory data transmitting glitch. They can only transmit / receive small amounts of Bluetooth data which makes the file transfer from our server to the phone and to the CodeShooter extremely slow. Transferring the data to the CodeShooter takes ~5 minutes prior to being able to flash the ECU. On all other Android and Apple phones, this process takes ~3-5 minutes. We are working with the Samsung development team on a fix for this issue, but we do not have an ETA for completion. If you must use an Android phone, the google phones work well and the Samsung Galaxy S9 works perfect. If you want to purchase a device just for this purpose, we suggest buying an Apple iOS based iPhone 9 or newer.*