



ENGINE MANAGEMENT

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Osiris ROM Dump Quick Guide Index

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NOTE: You should read the Osiris user’s guide prior to attempting to dump a ROM.

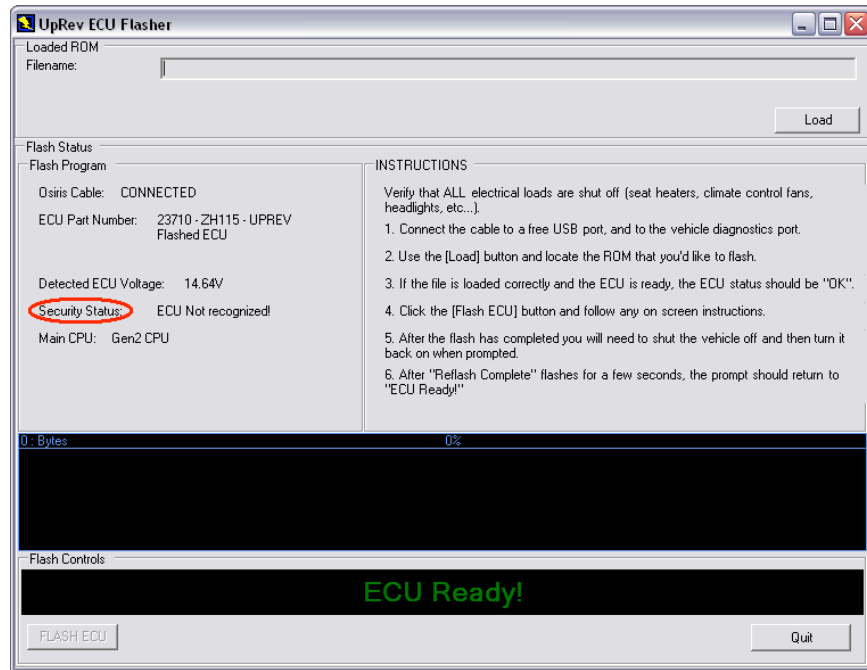
NOTE: Dumping a ROM requires the latest cable firmware (V161), so be sure to update your cable firmware before attempting a dump.

1. Dumping a ROM with Osiris

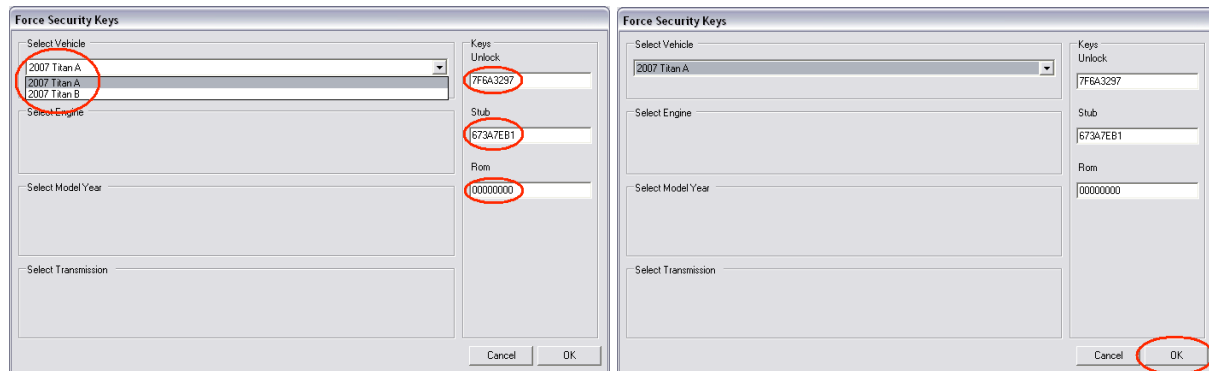
NOTE: If you need to dump a Gen 1 ECU and you are a pro tuner, you must use the OsirisGen1DUMP.exe located in C:\Program Files\UpRev\Gen1DUMP

WARNING: NEVER use the Gen1DUMP version of Osiris to flash and ECU. It will “brick” the ECU every time.

- 1.1. Run Osiris.exe
- 1.2. Connect your vehicle interface cable between your PC and vehicle diagnostic port.
- 1.3. Switch the ignition to the “ON” position, but DON’T START the engine.
- 1.4. Your screen should now look like the one below.

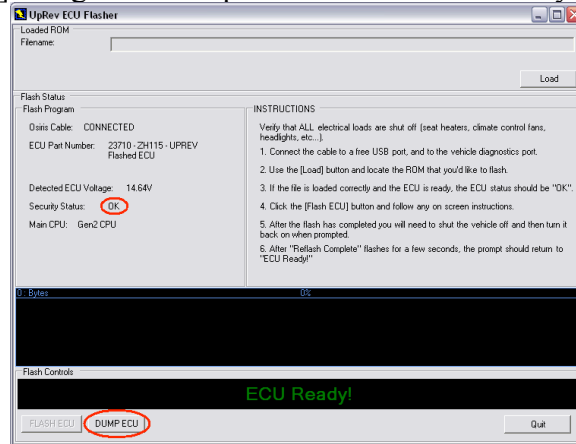


- 1.5. Double click the “Security Status” to bring up the ECU security screen.
- 1.6. Use the drop down menu at the top to select your vehicle.
- 1.7. Once your vehicle has been selected, you will see that the encryption keys have been populated.
- 1.8. Click OK when done.



1.9. Now the security status will have changed to “OK” and the [DUPMP ECU] button will appear at the bottom.

1.10. Click [DUMP ECU] and give the output file the same name as your ECU part number.



1.11. If you receive “Security error 17” in the prompt after you click “OK” then the security keys were not correct. Repeat steps 1.4 + using every other keyset on the list.

1.12. If no errors were encountered, then Osiris will begin to dump the software and save the file on your hard drive where you told it to save.

NOTE: It is common for keys from completely different vehicles to work on each other (for instance G35 keys might work for a Frontier).

NOTE: If NONE of the keys worked and you are a PRO TUNER, see section 4

2. Sending the data to UpRev

NOTE: Pro tuners will not need a license update after dumping.

2.1. When you receive your Osiris system from UpRev, your cable will be set up so that it can dump the software off of the ECU (ROM). Your cable will NOT be able to flash the ECU with this license.

2.2. When you send the ROM data that you saved in section 1, be sure to also send you cable license report.

2.2.1. See section 3 on generating a license report.

2.3. Once UpRev receives the ROM file and your license report we will add support to reflash your ROM to our system.

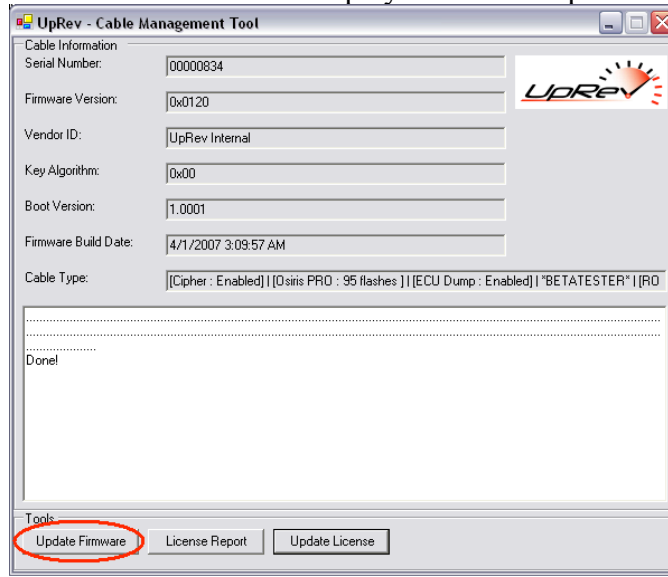
2.4. We can then email you a base ROM to flash as well as a cable license update to enable your cable to flash the ECU.

Email ROM and license report to Jared@UpRev.com

3. UpRev Cable Manager

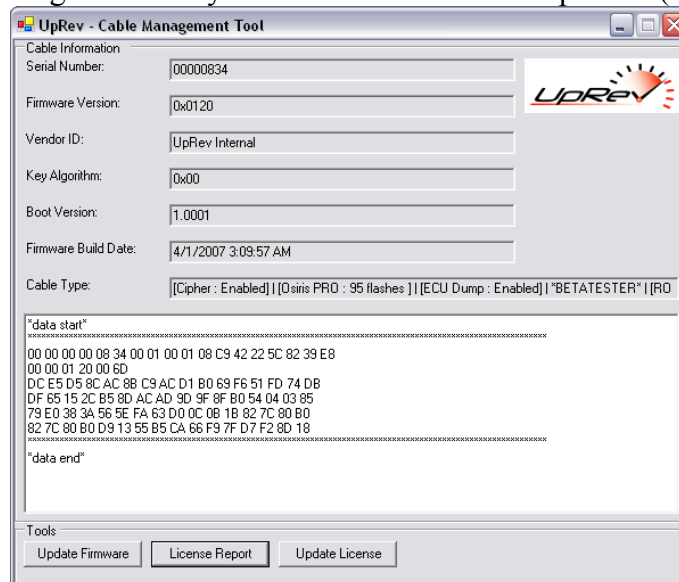
NOTE: If you are a pro tuner you will not need a license update.

- 3.1. The cable manager is used to load firmware updates and update license info on your UpRev interface.
- 3.2. Start the “CableManager.exe” and plug in your cable.
- 3.3. The screen should now display all the info about your UpRev interface.
- 3.4. Firmware update:
 - 3.4.1. Click the [Update Firmware] button in the lower left hand corner and browse to the latest firmware file.
 - 3.4.2. The software update will begin as soon as you open the file. Dots will trace across the TXT window and “Done!” will be displayed after the update has completed.



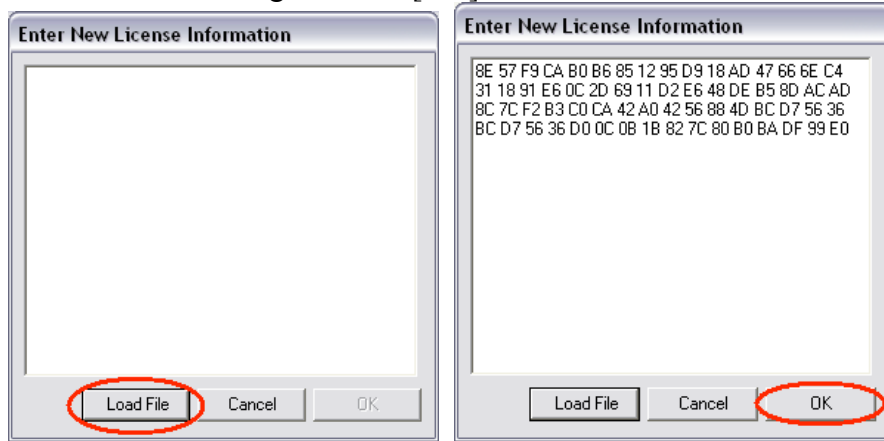
3.5. License update:

- 3.5.1. First click the [License Report] button.
- 3.5.2. The cable manager will ask you to name & save the output file (TXT file).

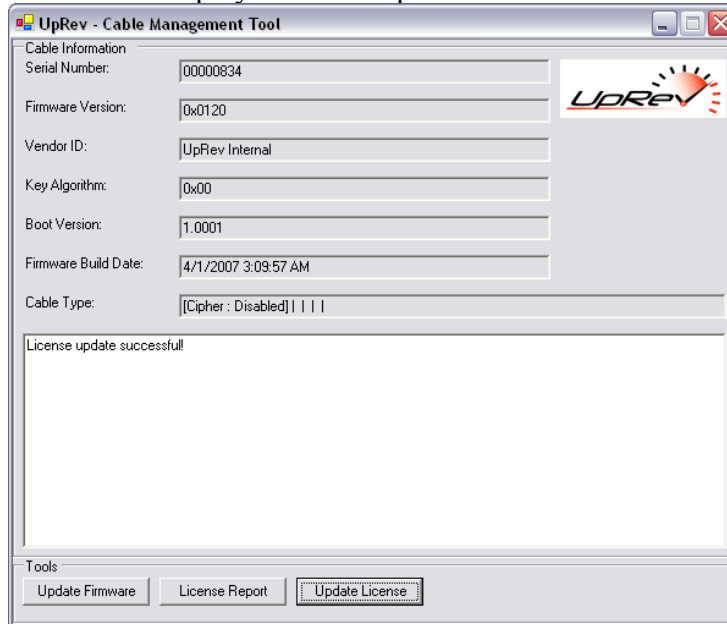


- 3.5.3. Send the TXT file to UpRev along with your desired updates (such as additional vehicle licenses).
- 3.5.4. UpRev will then send you a new TXT file to upload to your cable.

- 3.5.5. Click the [Update License] button. Then click the [Load] button and browse to the TXT that you received from UpRev.
- 3.5.6. After opening the file the window should populate with a bunch of HEX values like the window below on the right. Click [OK].



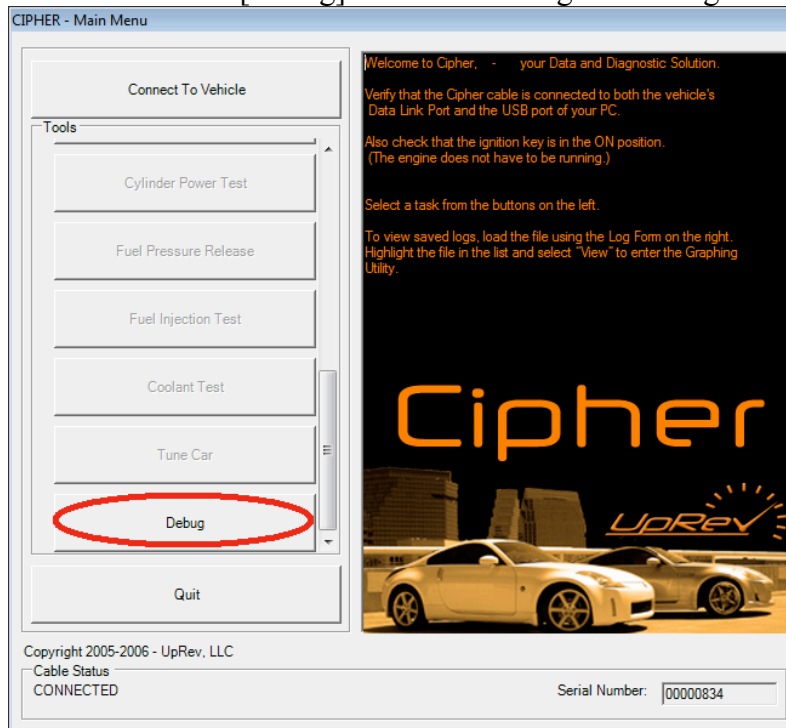
- 3.5.7. Click [OK]
- 3.5.8. The TXT field should display “License update successful!”



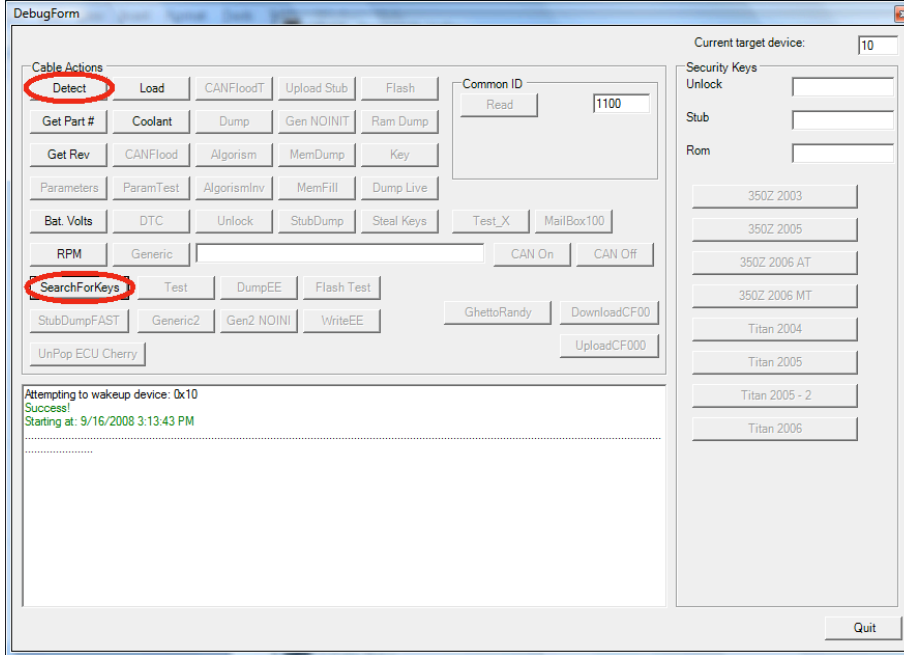
WARNING: If the license data on your cable changes after you send the data file to UpRev, then the license update you receive from UpRev WILL NOT WORK. You must not use any licenses between the time you send the file and when you update your cable.

4. Using the Cipher KeyFinder to get encryption keys for an unknown ECU

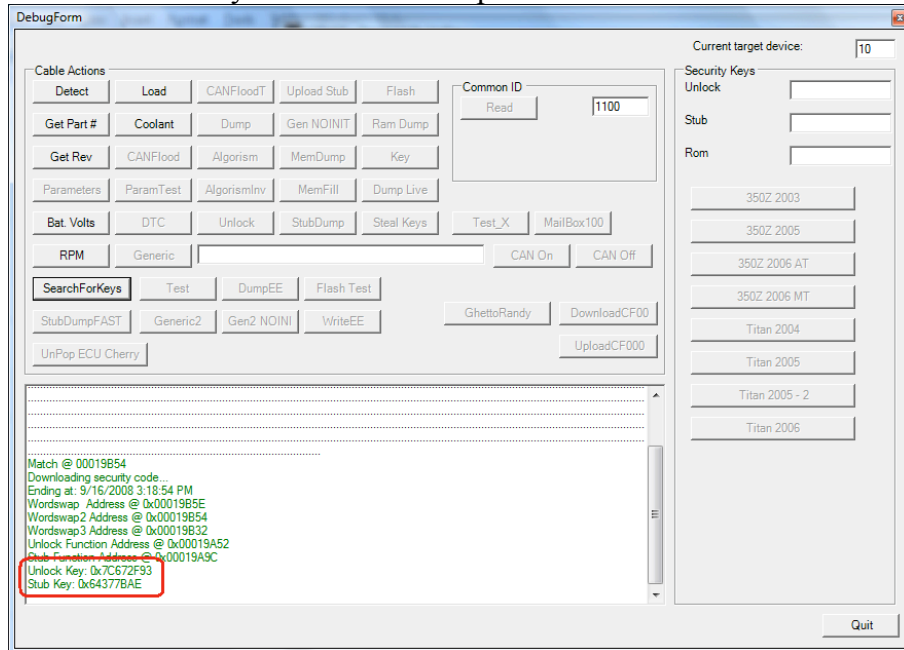
- 4.1. If NONE of the keysets that were listed in the drop down on the security window worked to dump the ROM, then you are going to need to use a special debug version of Cipher to get the encryption keys off of the ECU.
- 4.2. First run the “KeyFinder” version of Cipher. You will have to run the .exe directly from the directory where the program is located. By default it should be at “C:\Program Files\UpRev\Cipher KeyFinder”
- 4.3. Run the Cipher.exe
- 4.4. Double click on the picture in the lower right hand corner of the screen 12 times quickly. This will unlock the “Debug” window.
- 4.5. Scroll all the way to the bottom of the buttons on the left of the main window and you should now see a button called [Debug]. Click the debug button to get to the debug window.



- 4.6. First click [Detect] to ensure that the program is communicating with the ECU. It should display “Success!” after you click [Detect].
- 4.7. Once you have established communication with the ECU just click the [SearchForKeys] button.
- 4.8. Dots will trace across the text window at the bottom when the program starts running. It may take the program upwards of 25 min to find the encryption keys for the ECU.



- 4.9. Once the keys have been located, you will get a prompt in the text window telling you where the keys were found and what they are. Write down the Unlock and Stub keys so you can input them into the security window and dump the ROM.



- 4.10. From here on out the dump is the same as any other dump (see section 1). Run Osiris while connected to the ECU and double click on the security status text in Osiris, but instead of selecting a vehicle from the drop down, just copy the Unlock and Stub keys into the appropriate field. Put 00000000 (8 0s) into the “ROM Key” window.