

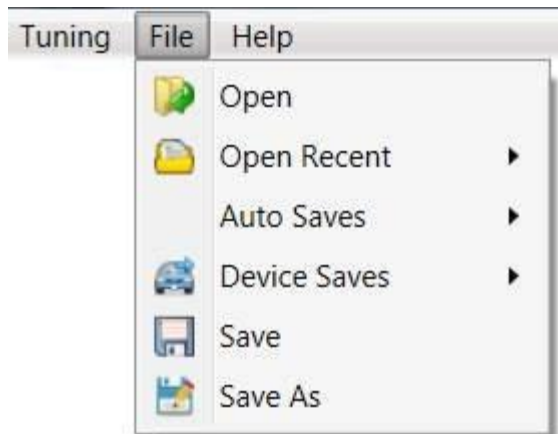
Tuning Map Operation

Tuning or Data Maps is the user settings of a device that can be saved as a file on a PC. This can be used as a backup later in case a device failure. It can also be used to clone devices for similar applications. This section describes how to save, load and convert maps for other devices of the same product firmware.

Map Save from the Device to a PC

First connect the device to the Hyperspace software so that it is live. To save a map from a device on your hard drive you can use the following methods.

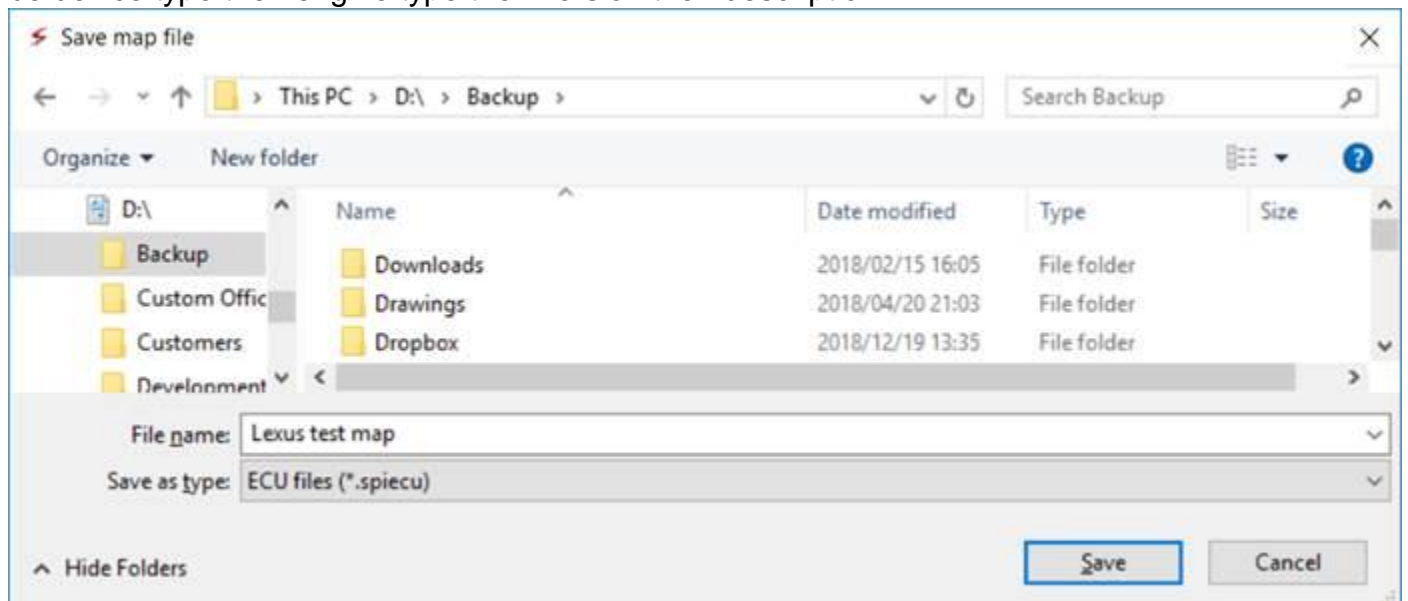
Go to file menu and click on Save As.



Click on the Save Map file button on the top application toolbar.



Now type in a file name and folder where you want to save your data map. A good filename would be device type then engine type then version then description.

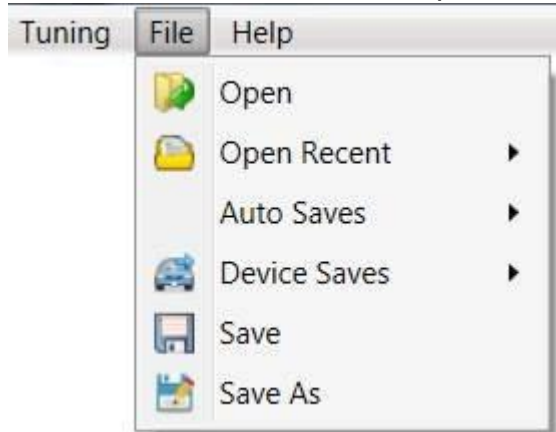


Your Map is now saved.

Load Map from PC

When you open a map from the hard drive the software will go offline. If settings in the device was not saved the software will ask you to save or cancel. Again there are 2 ways to load a map into the software. If you have opened the map recently then you can click on Open Recent which will bring a list from your last maps.

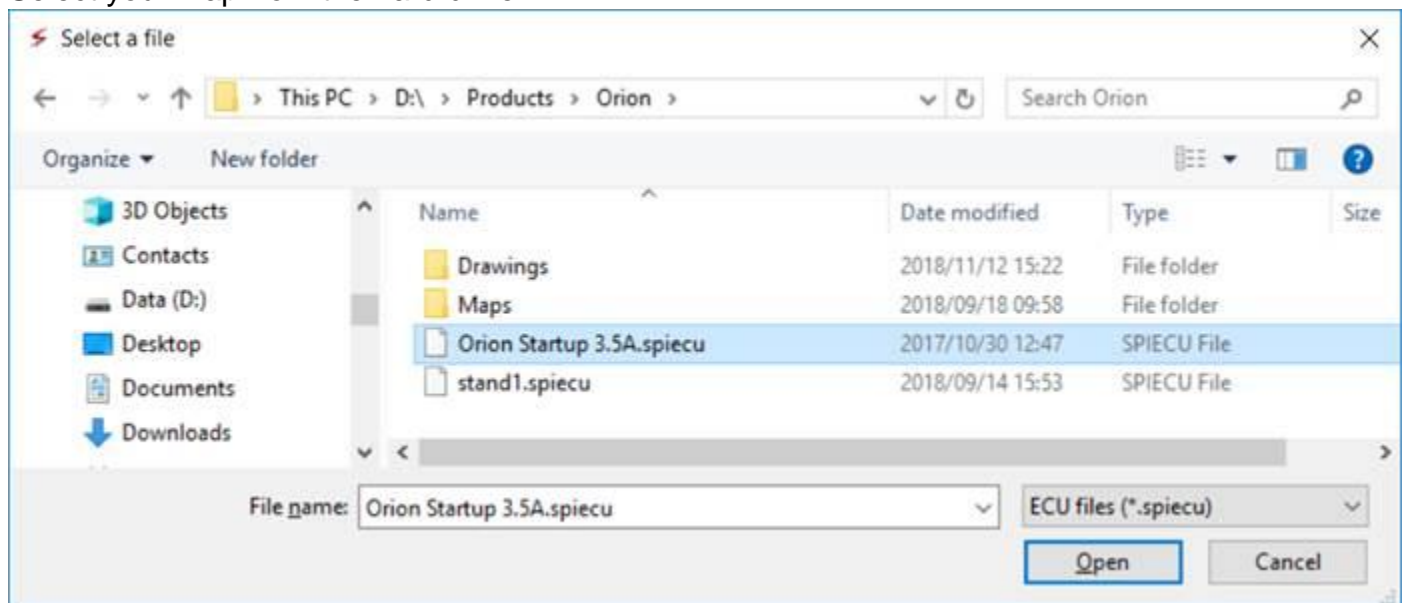
Go to file menu and click on Open.



Click on the Open file button on the top application toolbar.



Select your map from the hard drive.

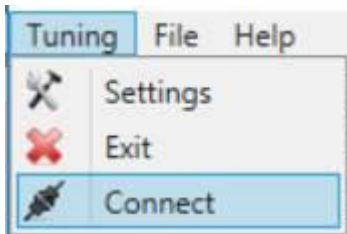


The software will open the map and you can now work offline. If you want to change values, you can save it offline by repeating the Save Map function described in the previous heading.

Downloading a Map into a Device

To load a map into a device you first need to open one as described in the previous **Load Map from PC** section. Now you need to click on one of the 3 connect buttons.

Tuning Menus and Connect.



Connect Button on Top Toolbar



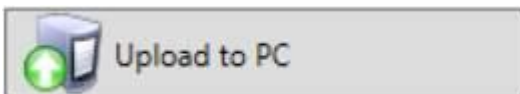
Connect button on left bottom information bar.



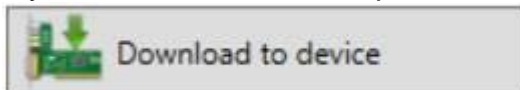
The selection block below will appear.



If you do not want to save the map and want to go live on the device again then press the Upload to PC button.



If you want to save the map in the device, click on Download to Device.



This button will not save critical setup values. If the Save Setup data of the device was not set to On while it was live, then no setup values will be saved.



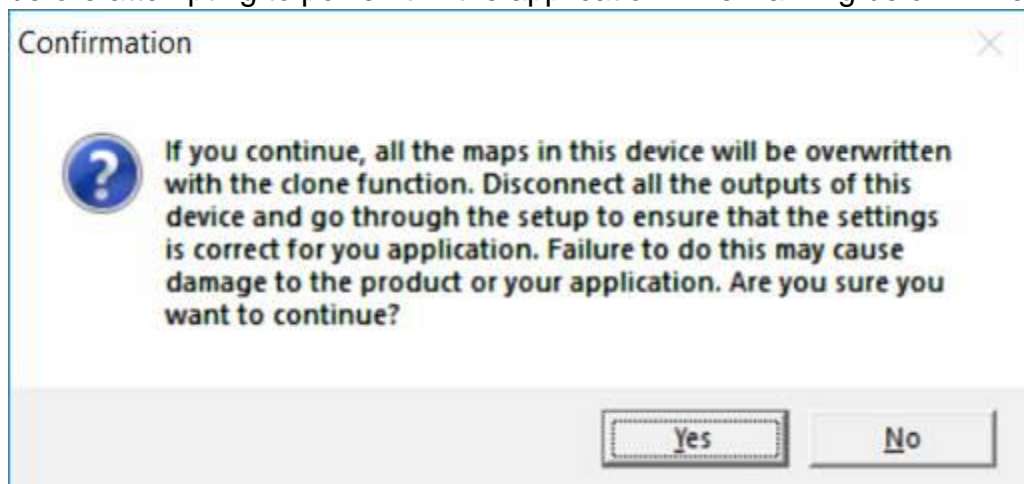
This is handy if your setup is right but you want to load matrix and graph data only. Note that it does catch you out sometime if it is not set.

If you want to Clone the Device, then press the Clone button called Dolly.

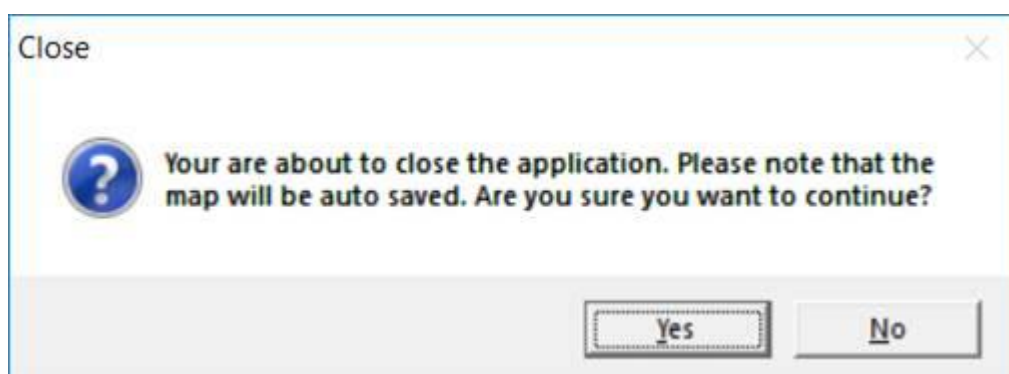


This will also load the critical values with setup and graph data and make the device exactly the same as the map of the device it was saved from.

NB! It is important to disconnect the output harnesses from the device and go through the setup before attempting to power it in the application. The warning below will appear to remind you.



If you want to Close and Exit without saving press this button.



Import and Export a Graph or Matrix

Spitronics devices can be tuned in two different algorithms on fuel and timing. There is a graph tuning method and a Matrix tuning method. To combined different maps, we implemented and Export and Import feature. This will let you add a graph or matrix only of another Map into your Current Map without retuning all the other graphs or matrixes. This is also very useful to load a standard start up matrix and then tune it on the dyno.

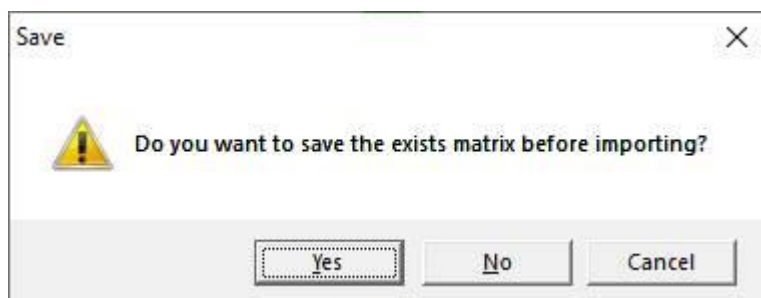
First you need to export the graph or matrix from the saved map.

Open that map in offline mode. Right click on the graph or matrix. Click on Task and Export to Excel.



Select a file name and save the data to your Laptop.

Now open your current map or connect to the Device. Again go to the same Graph or Matrix and do the same routine except this time click Import. Select the file you saved and import it into the new map.



You may save your current matrix or click cancel and the new one will be imported. The LED will flash yellow and you can save to device or file to make the changes permanent.

Note that you will require Excel on your PC. You may also open the file and edit it in excel.

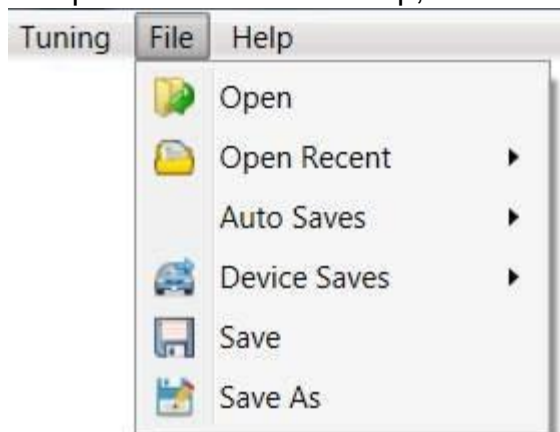
Map Recover Feature

AutoSave

As a backup function the Hyperspace software will auto save maps periodically. The interval time could be set in the File save settings.



To open an Auto Saved map, click on Auto Saves.



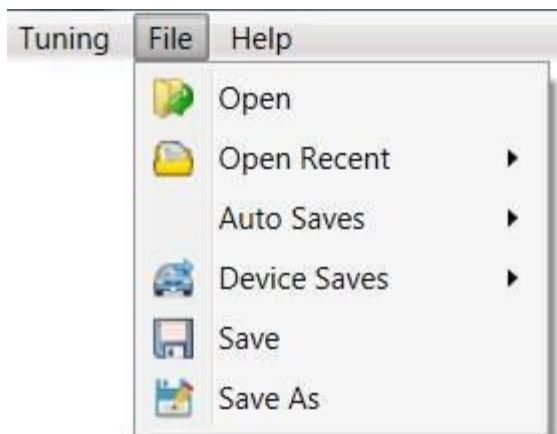
The file name will be saved as #770010_20190104130620774.spiecu

The # indicate Auto save then serial number then date time group and extension. Find the latest map and open it. If the data seems to be your last work you may load it into the device.

Device Save

Each time you save to a device the software will also save a copy in the Device Save folder. The latest file will be your last saved map in the device.

To open a Device Saved map, click on Device Saves.

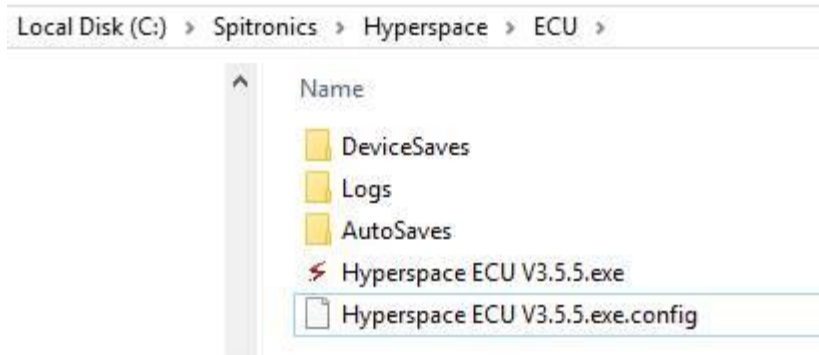


The file name will be saved as ~41162132_20181219171134827.spiecu

The ~ indicate Device save then serial number then date time group and extension. Find the latest map and open it. If the data seems to be your last work you may load it into the device.

Folders

These file can also be found in the folder where your Hyperspace was saved.



Convert Maps

Due to the progress in development from Spitronics, file names and maps may also change. For your convenience we kept the file structure from Galaxy to Hyperspace the same in Ver 3.5. this is to make the transition easy. Galaxy has been discontinued and Hyperspace is the new platform for development.

On Galaxy a map file had an extension of **.galaxy** which meant there was no distinction between ECU or TCU files.

With Hyperspace the map extensions are **.spiecu** for ECU files and **.spitcu** for TCU files etc.

To convert a Ver 3.5 Map from Galaxy to Hyperspace simply change the extension.

To Convert a Ver 3.4 map to Hyperspace is not so easy as Hyperspace Ver 3.5A has a lot more settings than the old Ver 3.4 firmware. Here you will have to set the Air and Water temperature graphs correct again and then all the other settings that Ver 3.4 did not have. Best is to open that map offline in Galaxy and then also connect the Device to Hyperspace. then load the same map into the device with hyperspace. Then compare your old settings and new ones to get it as close to as possible. Hyperspace Ver 3.5.5 and higher will allow you to open Galaxy files of Ver 3.4.

Alternatively, you may ask your Spitronics dealer to assist you with the file conversion by sending them the Ver 3.4 map file.