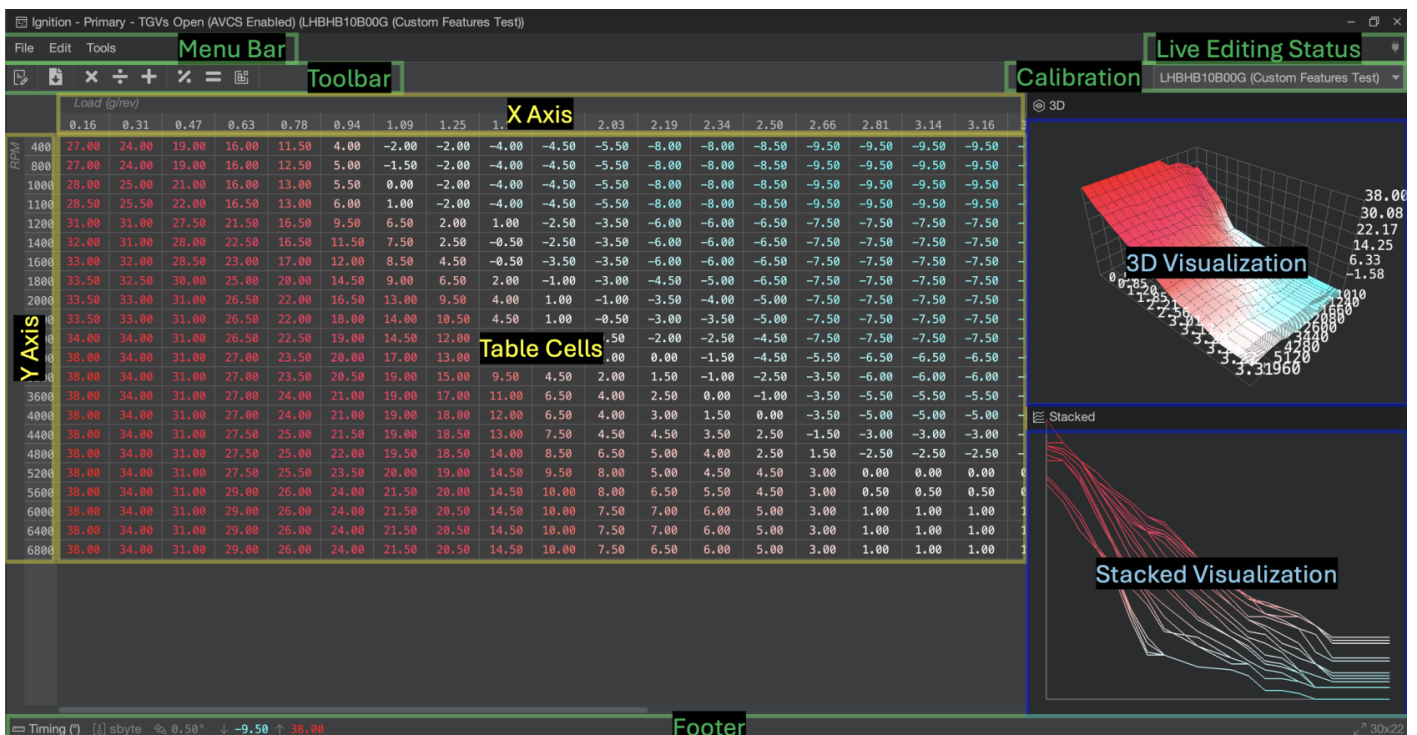


# Using the Table Editor

## Table Editor

The Table Editor is a critical view in Atlas. Using the Table Editor, you can change calibration **lookup tables** and modify ECU behaviors resulting from their computed values. Most, if not all, recalibration done on your ECU will happen from within the Table Editor, so it is crucial to understand its capabilities and how to navigate around it.



## Menu Bar

The **Menu Bar** contains a few options to load, save, and edit the table you are editing.

The **Live Editing Status Area** on the right-hand side of the Menu Bar shows you the current state of live editing in the Table Editor. If a red **"LIVE"** box appears, then any changes you make in the Table Editor will be immediately reflected on the ECU, so be careful when making changes. Sometimes, you might see a yellow **"Resync"** label. Click this label to redownload the ECU's table copy so you can return to a LIVE session, but beware: any local changes will be lost.

For more information and diagnostics on Live Editing, see the documentation page:

## Toolbar

The **Toolbar** has a series of quick actions that you can perform such as exporting the table data, and performing mathematical operations on **selected cells**, such as adding values or averaging

them.

The **Calibration Area** on the right-hand side of the Toolbar allows you to quickly change the Table Editor between different calibrations in your project. Most of the time, you only want to edit **Global Calibration**, which has its own dropdown in the **Atlas Toolbar** outside the Table Editor in the main Atlas window. However, you can change each Table Editor independently as you work.

Keep in mind that when the **Global Calibration** changes, any Table Editors that are currently selected to that calibration will also update to the newly selected Global Calibration. Any Table Editors that have selected a different calibration than the Global Calibration will not track the Atlas Global Calibration as it changes, unless the Global Calibration being changed from agrees with the Table Editor's calibration.

## Table Area

### X Axis / Y Axis

The axes for the table are listed alongside the table contents and scroll with the table cell data as you pan/scroll through it. Right-click on an axis's header to edit its contents. **Be very careful! Atlas will allow you to edit any Axis, even if it might be dangerous.** Editing axes can cause unintended behavior in the ECU; we recommend double-checking with our community (i.e. Discord) before editing axis data in your ECU, unless you know what you're doing.

### Table Cells

The Table Cells for the table is the large area in the center of the Table Editor. In this area, you can perform several actions and modify table cell data unless the currently selected calibration is marked as **read-only**.

When Table Cells change, they will flash a certain color depending on what has been updated. Cells flash **yellow** when they have updated the calibration (or "ROM") only, as in the case with offline work, but flash **green** when the data has also been updated on the online ECU in a live session.

Action	Keystroke(s)	Description
<b>Enter Cell Data</b>	<i>Type any number</i>	Enter cell data by first selecting cells you want to edit, then type a number and press <b>Enter/Return</b> to have the entire selection update to the entered value.
<b>Undo</b>	Ctrl+Z (Cmd+Z)	Undo the last edit.
<b>Redo</b>	Ctrl+Y (Cmd+Y)	Redo the last undone edit.

Add	Shift+(+)	Type the "+" character (Shift and the "+" key together) to start adding a value to the current selection. <b>Tip:</b> use a negative number to quickly subtract a value.
Multiply	Shift+8	Type the "*" character (Shift and the "8" key together) to start multiplying the current selection by a coefficient.
Divide	/	Type the "/" character to start dividing the current selection by a coefficient.
Interpolate	i	Type the "i" key to immediately interpolate the current <b>complex selection</b> . Interpolation behaves differently than other actions. Selected cells will be treated as anchors and will be unchanged, but any cells in between the anchors will be interpolated according to the Table Editor's current interpolation algorithm.

Selection in the Table Editor can either be **Simple** or **Complex**. The following table breaks down these two selection modes:

Simple Selection	Complex Selection																																																																																																																																																																																																																																																																																																																																																																																																																														
<p>Click and drag to make a simple selection.</p> <p>Use <b>Ctrl/Cmd + A</b> together to quickly select the entire table.</p>	<p>Start with a simple selection (or one cell), and <b>hold Ctrl/Cmd</b> while clicking other areas of the table to produce a complex selection.</p> <p>Complex selections are a key feature with <b>Interpolation</b>.</p>																																																																																																																																																																																																																																																																																																																																																																																																																														
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	0.16	0.31	0.47	0.63	0.78	0.94	1.09	1.25																																																																																																																																																																																																																																																																																																																																																																																																																							
400	27.00	24.00	19.00	16.00	11.50	4.00	-2.00	-2.00																																																																																																																																																																																																																																																																																																																																																																																																																							
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1200	31.00	31.00	27.50	21.50	16.50	9.50	6.50	2.00																																																																																																																																																																																																																																																																																																																																																																																																																							
1400	32.00	31.00	28.00	22.50	16.50	11.50	7.50	2.50																																																																																																																																																																																																																																																																																																																																																																																																																							
1600	33.00	32.00	28.50	23.00	17.00	12.00	8.50	4.50																																																																																																																																																																																																																																																																																																																																																																																																																							
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2200	33.50	33.00	31.00	26.50	22.00	18.00	14.00	10.50																																																																																																																																																																																																																																																																																																																																																																																																																							
2400	34.00	34.00	31.00	26.50	22.50	19.00	14.50	12.00																																																																																																																																																																																																																																																																																																																																																																																																																							
2800	38.00	34.00	31.00	27.00	23.50	20.00	17.00	13.00																																																																																																																																																																																																																																																																																																																																																																																																																							
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3600	38.00	34.00	31.00	27.00	24.00	21.00	19.00	17.00																																																																																																																																																																																																																																																																																																																																																																																																																							
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4400	38.00	34.00	31.00	27.50	25.00	21.50	19.00	18.50																																																																																																																																																																																																																																																																																																																																																																																																																							
4800	38.00	34.00	31.00	27.50	25.00	22.00	19.50	18.50																																																																																																																																																																																																																																																																																																																																																																																																																							
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Revision #12

Created 7 November 2024 18:52:03 by Matt

Updated 22 November 2024 12:30:06 by Matt