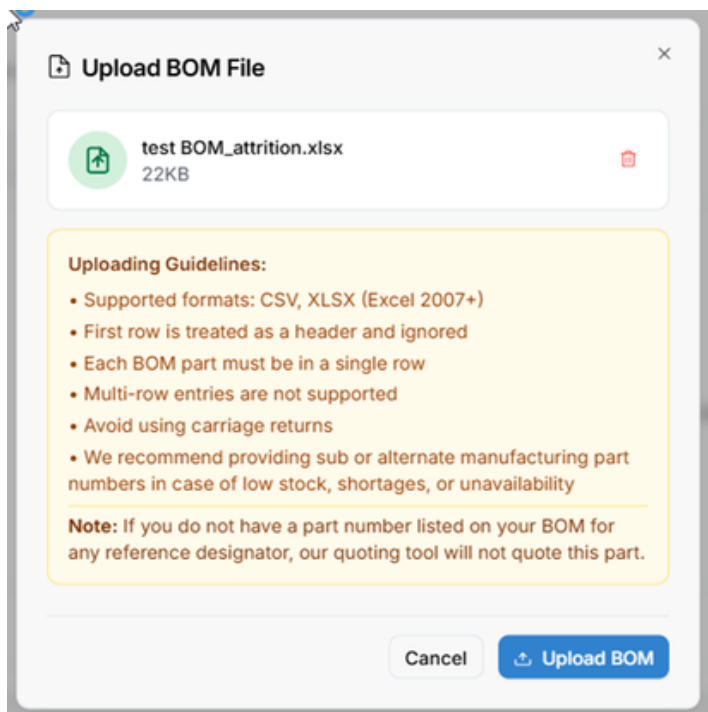
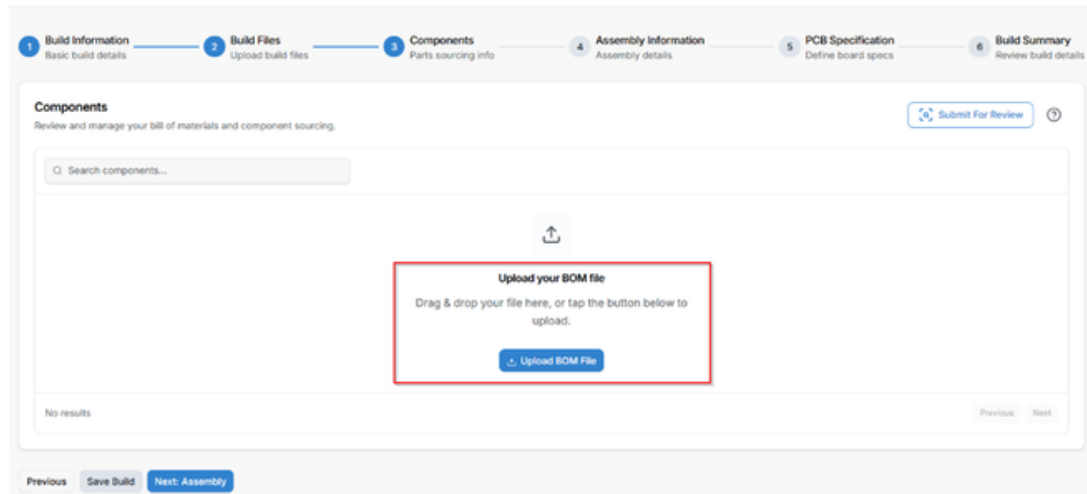


BOM Upload User Guide - SC 3.0_Rev1

This document is meant to be used as a guide to help you navigate the updates we have made to our BOM Upload tool. If you have any questions, please feel free to chat with us....we are here to help!

 **Upload Your BOM**

1 From the Components Screen - Drag and drop or upload your BOM.

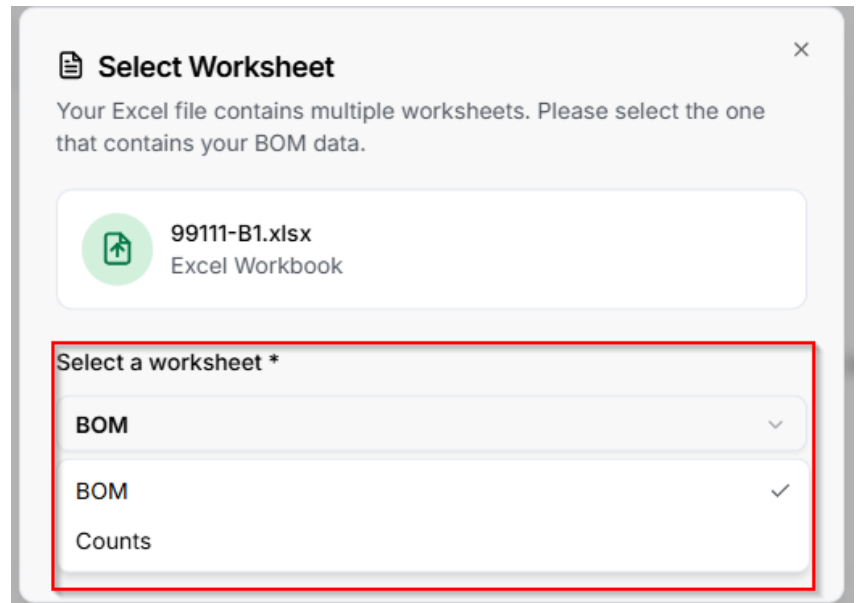
 **Review Upload Guidelines**

- 2** A new screen will pop up giving you some BOM upload guidelines to follow and/or the option to use our sample BOM.
- 3** If your BOM does not meet the guidelines listed, you can click the trashcan icon to remove it and start over.
- 4** If your BOM does meet the guidelines, you can select the Upload BOM button.

*Notes: You can hover over many of the symbols on this page to get more detailed information.

5

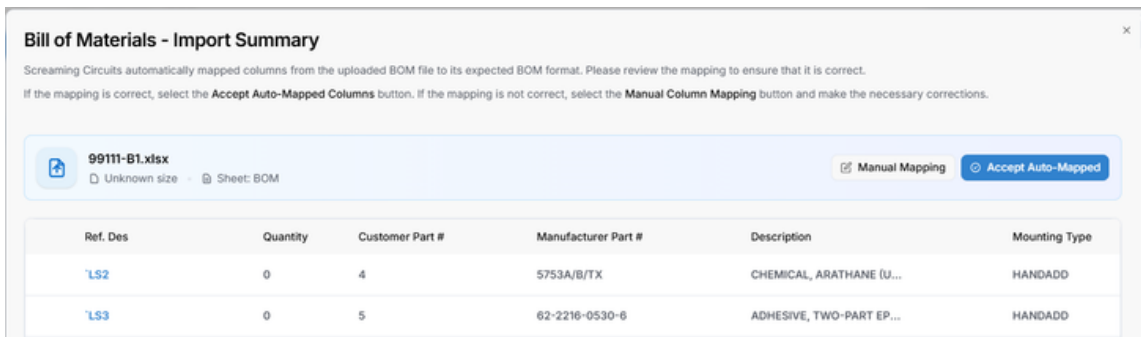
If your BOM has multiple worksheets, you will need to select which one you would like to use. Use the drop down arrow to select which worksheet your BOM is located on. Then click the Continue button.



Import Summary

6

This screen shows you how your BOM was mapped in the system. It is important that your BOM maps correctly because errors in mapping could effect cost, parts placed or not placed, and could cause unnecessary delays in quoting and manufacturing.



Bill of Materials - Import Summary

Screaming Circuits automatically mapped columns from the uploaded BOM file to its expected BOM format. Please review the mapping to ensure that it is correct.
If the mapping is correct, select the **Accept Auto-Mapped Columns** button. If the mapping is not correct, select the **Manual Column Mapping** button and make the necessary corrections.

99111-B1.xlsx
Unknown size | Sheet: BOM

Manual Mapping | Accept Auto-Mapped

Ref. Des	Quantity	Customer Part #	Manufacturer Part #	Description	Mounting Type
LS2	0	4	5753A/B/TX	CHEMICAL, ARATHANE (U...	HANDADD
LS3	0	5	62-2216-0530-6	ADHESIVE, TWO-PART EP...	HANDADD

*Notes: You can hover over many of the symbols on this page to get more detailed information.



Validate BOM Mapping

7 Review the automated mapping, the most important columns to map are:

- Manufacture Part Number
- Reference Designators
- Quantity
- Mounting Type
- Description

Bill of Material - Mapping Summary

Map each column from your uploaded file to the appropriate field type. Once completed, click the **Save Mapping** button at the bottom of the screen.

test BOM_attrition.xlsx
21.8 KB · Sheet: Sheet1

Clear Revert to Auto-Mapped

QUANTITY	MANUFACTURER PART NUMBER *	REFERENCE DESIGNATOR *	VENDOR PART #
Quantity	Manufacturer Part Number *	Reference Designator *	Not Mapped
217	0402B104K500CT	C7, C8, C13, C25, C28, C29, C30, C31, C33...	Not Mapped ✓ Manufacturer Part Number * Reference Designator * BOM Line Number Description Do Not Place Footprint Manufacturer Name Manufacturer Part Number 2 Mounting Type Notes Quantity Vendor Name Vendor Part Number
29	0402B474K100CT	C47, C50, C80, C156, C186, C187, C188, C1...	
2	10002955-008	M45, M46	
2	10011137-001	M49, M50	
1	20008695-001-RevB1	*PCB	
3	292-J-P-EP-ST-EL-01	J1, J2, J21	
1	30006244-001	LABEL1	

Close Save Mapping

8 Alternate or vendor part numbers are a huge bonus but can also be added later in the process, if needed.

9 If you need to change any mapping, select the Manual Mapping button.

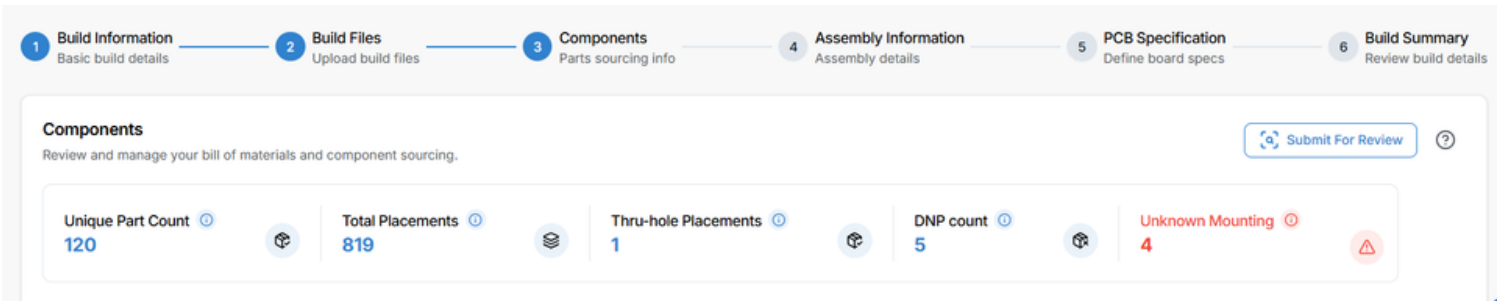
10 If you select the option for Manual Mapping, you will need to update all columns accordingly.

11 Be sure to hit the Save Mapping button to proceed, or you can Revert to Auto-Mapped layout.

*Notes: You can hover over many of the symbols on this page to get more detailed information.

Components Page

12 Next you will land on the Components page. At the top of the page, you will see the BOM counts that were extracted from your uploaded BOM.



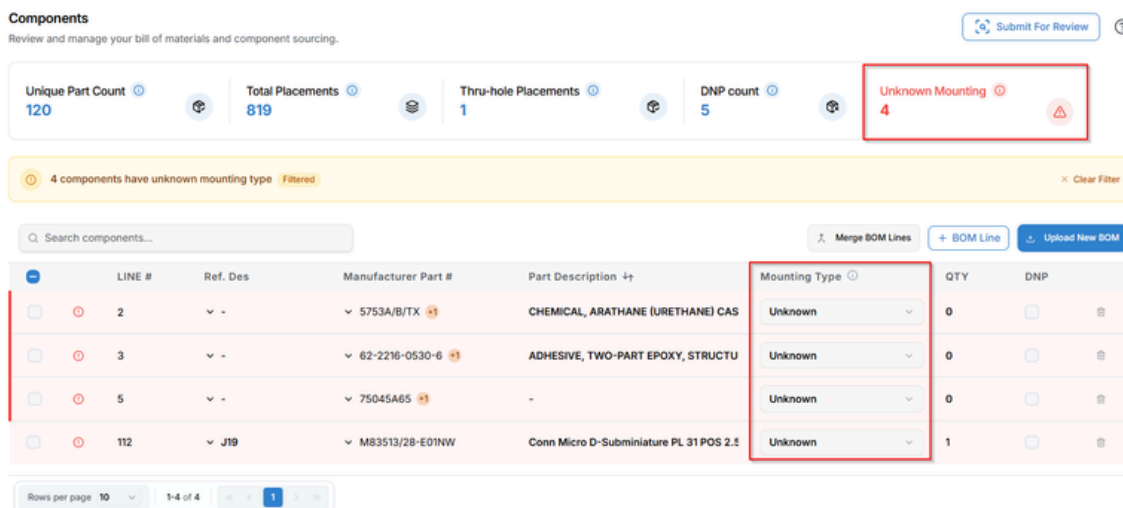
The screenshot shows the top navigation bar with six steps: 1. Build Information (Basic build details), 2. Build Files (Upload build files), 3. Components (Parts sourcing info), 4. Assembly Information (Assembly details), 5. PCB Specification (Define board specs), and 6. Build Summary (Review build details). Below the navigation is the 'Components' section header with a 'Submit For Review' button. A summary bar displays the following statistics: Unique Part Count (120), Total Placements (819), Thru-hole Placements (1), DNP count (5), and Unknown Mounting (4). Each statistic has a refresh icon and a help icon. A red warning triangle is next to the Unknown Mounting count.

Please note the purpose of this section is to format your BOM as part of your repeatable build package, and make sure that all parts are listed correctly and there are no errors. For noting customer supplied parts, making line changes, or adding alternate part numbers, please continue to Quote Creation.

Resolve BOM Errors

13 You may also see some errors. All errors will need to be corrected before you can proceed.

14 For the Unknown Mounting errors, shown in the top bar, you can click on that box and it will show you all the errors together in on place, so you don't have to scroll looking for them. In the Example shown below, we have 4 things on our BOM where the mounting type is unknown.



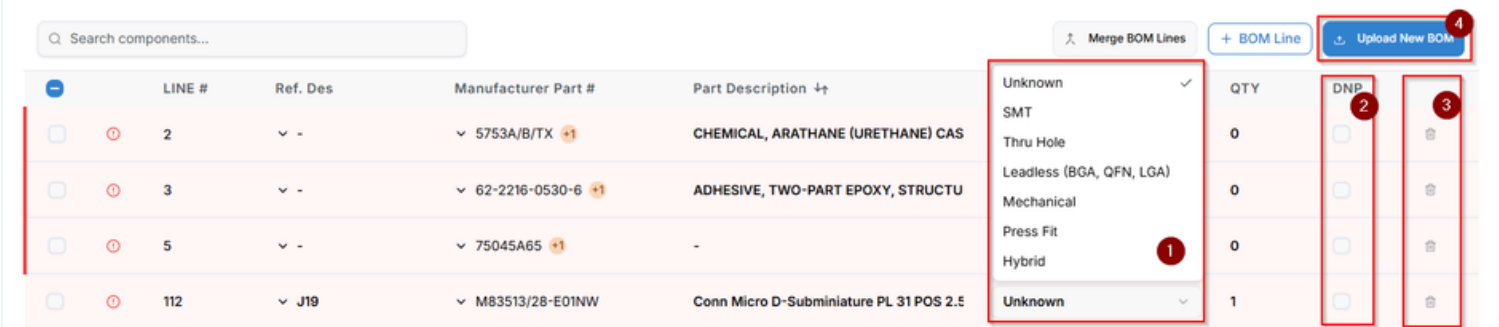
The screenshot shows the 'Components' section with a summary bar where the 'Unknown Mounting' count (4) is highlighted with a red box. Below this, a yellow banner indicates '4 components have unknown mounting type Filtered'. A table below lists the components with their mounting types set to 'Unknown', also highlighted with a red box. The table has columns for LINE #, Ref. Des, Manufacturer Part #, Part Description, Mounting Type, QTY, and DNP.

LINE #	Ref. Des	Manufacturer Part #	Part Description	Mounting Type	QTY	DNP
2	-	5753A/B/TX	CHEMICAL, ARATHANE (URETHANE) CAS	Unknown	0	<input type="checkbox"/>
3	-	62-2216-0530-6	ADHESIVE, TWO-PART EPOXY, STRUCTU	Unknown	0	<input type="checkbox"/>
5	-	75045A65	-	Unknown	0	<input type="checkbox"/>
112	J19	M83513/28-E01NW	Conn Micro D-Subminiature PL 31 POS 2.5	Unknown	1	<input type="checkbox"/>

*Notes: You can hover over many of the symbols on this page to get more detailed information.

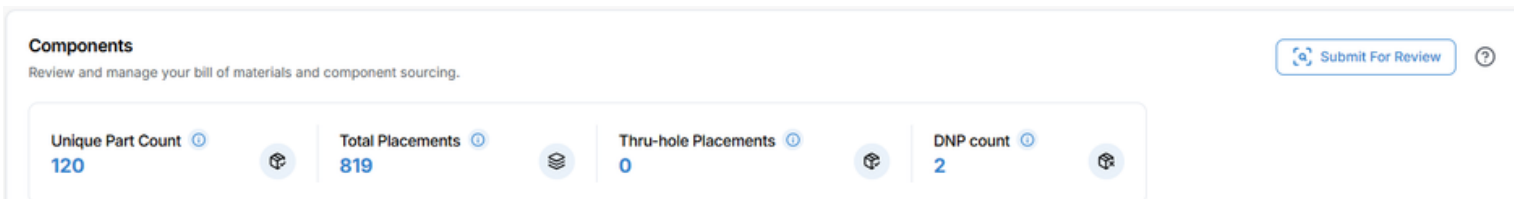
15 Your options to correct these are:

1. Use the drop down arrow to select the correct mounting type
2. Click the box to DNP that line
3. Use the trashcan button to delete that line
4. Correct your BOM and upload it again



LINE #	Ref. Des	Manufacturer Part #	Part Description	QTY
2	-	5753A/B/TX	CHEMICAL, ARATHANE (URETHANE) CAS	0
3	-	62-2216-0530-6	ADHESIVE, TWO-PART EPOXY, STRUCTU	0
5	-	75045A65	-	0
112	J19	M83513/28-E01NW	Conn Micro D-Subminiature PL 31 POS 2.5	1

16 Once you have corrected all the Mounting Type errors, you should see the error box go away.



Components
Review and manage your bill of materials and component sourcing.

Submit For Review

Unique Part Count 120	Total Placements 819	Thru-hole Placements 0	DNP count 2
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Handle BOM Line Errors

17 You may see other error flags on your BOM lines, if you hover over the warning triangle, you will see what the error is for.

18 For a BOM-Line QTY error, you will need to choose one of the following options:

1. Use the drop down arrow to select the correct mounting type
2. Click the box to DNP that line
3. Use the trashcan button to delete that line
4. Correct your BOM and upload it again

*Notes: You can hover over many of the symbols on this page to get more detailed information.

90 C1005C0G1H102K... CAP CER 1000PF 50V COG 0402 SMT 24

Warnings:

- BOM-Line Qty per doesn't match with placements

19 For a MfgPartNum error, you can use the same options listed above, or you can choose to merge your BOM lines.

2 2N7002WT1G N-channel MOSFET SMT 0

Errors:

- MfgPartNum '2N7002WT1G' on line 2 is also used on line(s): 3, 4.

20 To Merge BOM Lines, click the check box next to the lines that you want to merge together, then click the Merge BOM Lines button.

Q Search components... Merge BOM Lines + BOM Line Upload New BOM

LINE #	Ref. Des	Manufacturer Part #	Part Description	Mounting Type	QTY	DNP
<input checked="" type="checkbox"/> 2	-	2N7002WT1G	N-channel MOSFET	SMT	0	<input type="checkbox"/>
<input checked="" type="checkbox"/> 3	-	2N7002WT1G	N-channel MOSFET	SMT	0	<input type="checkbox"/>

21 Please note that you can only merge 2 lines together at a time.

Merge BOM Lines

Select exactly 2 lines to merge. The merge line will be merged into the target line and removed.

Selected Lines (0/2)

No lines selected. Please select 2 lines from the table below.

Available Lines

Q Search by part number, description, or designator...

LINE#	CUSTOMER PART NO.	MANUFACTURER PART NO.	DESCRIPTION	QTY.
<input type="checkbox"/> 02	-	2N7002WT1G	N-channel MOSFET	0
<input type="checkbox"/> 03	-	2N7002WT1G	N-channel MOSFET	0
<input type="checkbox"/> 04	-	2N7002WT1G	N-channel MOSFET	0

*Notes: You can hover over many of the symbols on this page to get more detailed information.

22 Once you have checked the boxes for the lines you would like to merge, you will see the screen below. Please be sure to read the notes to determine which is your Target (keep) line. If this is not correct, use the Swap button in the upper right hand corner.

23 Once your merger lines are correct, hit the Merge Lines button at the bottom of the page.

24 If you have more lines that need to be merged, continue with this process until you have merged them all successfully.

Merge BOM Lines ×

Select exactly 2 lines to merge. The merge line will be merged into the target line and removed.

↔ Swap

	ROLE	LINE#	CUSTOMER PART NO.	MANUFACTURER PART NO.	DESCRIPTION	QTY.
×	Target (keeps)	02	-	2N7002WT1G	N-channel MOSFET	0
				↓		
×	Merge (removes)	03	-	2N7002WT1G	N-channel MOSFET	0

Merge Result: Line #03 will be merged into Line #02. All reference designators and quantities from the merge line will be added to the target line, and the merge line will be removed.

Available Lines

Q Search by part number, description, or designator...

	LINE#	CUSTOMER PART NO.	MANUFACTURER PART NO.	DESCRIPTION	QTY.
<input type="checkbox"/>	04	-	2N7002WT1G	N-channel MOSFET	0
<input type="checkbox"/>	05	-	R-78E3.3-0.5	3V3 DC-DC converter	0
<input type="checkbox"/>	06	-	R-78C9.0-1.0	9V DC-DC converter	0
<input type="checkbox"/>	07	-	AOD409	MOSFET P-CH 60V 26A TO252	1
<input type="checkbox"/>	08	-	PKM22EPPH4001-B0	Buzzer	0

Cancel
Merge Lines



If you have more lines that need to be merged, continue with this process until you have merged them all successfully.

When you are done making your edits to your BOM, click the Next: Assembly button to proceed.

Next: Assembly

*Notes: You can hover over many of the symbols on this page to get more detailed information.