

XCH Cooler How to use the Automation.

When you start a job. Start as usual.

1. In the top asm change the 3D sketch to the correct dims.
2. Then (control Q) and the col heights will update as usual.
3. Make sure the asm model is on the Default configuration for the design table to work properly.
4. Next open the Col asm and the Col part. Make sure they are both on the Left Front Config for the design table to work properly.
5. Start with the col part file first. Open the design table and make your changes.
6. Choose from the 4 drop downs in the table (shown below) and save the file.
7. Then go to the col asm and open and close the table. It will now update.
8. Then save the file. That is all you need to do to update the col.

**Column Automation**

In the col part design table you will have 4 drop down questions to answer to properly update the col you will need for your current job.

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Col Type = W6 or W8 col size

If you need a Wide flange other than the two optional sizes in the drop down.

Just Click in the field and type in the size you need. Then hit enter.

1Z? = is it a 1Z Yes or No

Sub Col = Does it have Sub Col’s Yes or No

Splice Place Holes = Does it use Splice Plates Yes or No

In the Col Asm table. This table will automatically update based on the col size. You will have the option to override the drop down options for the col base and join plates and flags for job specific parts. Otherwise these columns will be blank.

A screenshot of a spreadsheet

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**Drive Mount Automation**

When you start working on the drm.

1. Start with the drm part model.
2. Open the design table and make your changes.
3. Choose from the 2 drop downs in the table (shown below).
4. Next enter the center distance from the parts list document (PLT).
5. After you have made your selections, Close the design table and save the file.
6. Now open, the design table in the DRM Assembly model.
7. You will have 2 drop downs in this table. Choose the Bearing Size and the Motor Size.
8. Then close the table. It will now update the assembly.
9. Then save the file. That is all you need to do to update the DRM.

DRM Part Design Table.

A yellow line on a white background

Description automatically generated

Drive Type.

|  |
| --- |
| Standard 15 |
| Mini 12 |

The Standard is a 15” drive Channel. Used on most Z Coolers. 108” and above.

The Mini is a 12” drive Channel used on small Coolers. 96” and below.

Drive Mtg Table.

|  |
| --- |
| Fish Plate |
| Fish Plate w Bugscreen |
| H Drive |
| H Drive w Bugscreen |

Choose from these 4 options.

On small coolers with small bearings, you can change the tube size. For bearing bolt clearance.

DRM Assembly Design Table.

A yellow and black text on a white sheet

Description automatically generated

Chose the Bearing Size and the Motor Size.

You, on a rear occasion can rotate the bearing from 45 to 90 degrees.

**Fan Deck Automation.**

The FDK has design table with a drop down for the fan size. This makes it easy change between all the fan sizes we currently use. It quickly changes the fan cutout Dia., the Dia. of the slots, and the qty. of the slots.

FDK Design Table.

A screenshot of a spreadsheet

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Choose from a 42” fan to a 192” fan.

**Assembly Automation.**

In the Assembly (ASM) Make sure you are in the Default Configuration so the design table will work properly. Then open the design table.

Below are the drop-down options.

A chart with text and numbers

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First choose how many fans your cooler will have. (1-3)

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Choose if you have a DMS? (H Drive).

A chart with numbers and text

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Choose if you have a Bug Screen?

Note: If you have a bug screen and a 3Z, do all your other choices first. Get the model the way you need it. Then reopen the design table. Then pick the bug screen option. It will cause less problems. When you have a bug screen you will have to manually have to edit the “LocalLPattern-3Z”. Suppress or remove the drive braces. When it is a 3Z is the only time you will have to manually edit it. I did not have time to put this into the automation.

A screenshot of a computer screen

AI-generated content may be incorrect. A drawing of a structure

AI-generated content may be incorrect.

Choose if you have Splice Plates?

A chart of a number of fans

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On occasions where the drive mount brace interferes with the fan ring/guard.

When this happens, we will use this option. (Seldomly used).

**You will have to edit the 3Z pattern if you have a 3Z.**

Choose if you need a formed drive brace mtg bracket?

A screenshot of a computer screen

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See next page for

**Bugscreen Automation.**

**Bugscreen Automation.**

When you have a bugscreen.

Start with the Bug-Pnl Assy. Open the design table and make your changes.

Choose from the 2 drop downs in the table (shown below) and save the file.

Then go to the BUG-PNL ASSY Dwg and the BUG ASM Dwg. They should automatically update.

Then go to the BPA dwgs. You will have to manually finish updating them. (see below)

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Choose the bugscreen type: BPA Hard or BPL Soft.

Choose the Drive type: Fish Plate or H Drive.

When you change from Fish Plate to H Drive or back, Item 21600 will show up in the bill. on the bug panel dwgs. If it does show up all you will have to do is hide it.

A close-up of a label

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There is only one dwg file for each bug panel (BPA-1 thru 8). The same file will be used for BPA and BPL. If you update the dwg properly it will show up in flatter files correctly. So you must open each file and do the following.

1. Open each BPA file. The bill should update and be correct.
2. Then click on the dwg view.
3. Change it to the configuration to match the bill. (BPL or BPA)
4. Then (control Q) and the dwg and title block will update.
5. Check to make sure everything matches. P/N on view, bill and Title block should all match.
6. Last of all delete the red note on dwg view.
7. Save file. Repeat for all the bug panels.
8. On BPA dwgs less than 36” wide or long, suppress the center hole. On that edge.

See next page

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A screen shot of a computer

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**Walkway** It is not fully automated yet.

In the assembly turn on the walkways needed. In the Column turn on the walkway mtg holes so the walkway does not float.

The walkway is now tied to the Assembly and Column Model. As the cooler gets wider or narrower, the walkway will as well. You no longer need to change the dim for the W6/W8 option. It will automatically update as well.

A drawing of a table

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The mounting holes and bracing will automatically update to match the col size after the col model is updated. Don’t forget to turn on the mtg holes in the Column assembly.

A drawing of a wooden structure

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There is now a true top-down bill for the complete walkway asm.

There is now a page with details of the bolt on items.

Blue drawing of a metal platform

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This sheet is for the welded items.

Blueprint of a bridge with blue railings

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On the detail page by default only the yellow items are visible. The extension items, highlighted in blue are hidden. They should remain hidden unless you are using the extension features. If you need more details just add a page.

The extension items will be explained on next page.

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Extension items are turned on below. They can be turned on in any config in any variation.

In the tree unsupress the feature(s) needed. This can be as small as for connecting walkways or as large as to be used for a landing for a sidestep ladder, ect.

A drawing of a wooden shelf

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AI-generated content may be incorrect.

To move the handrails out is much easier than before. Double click on the end handrail or just edit the 3D Sketch for Handrails. Change the dim for the side you are changing. Match the extension dim. Also change the bar grating in the same manor, to match handrails.

A drawing of a wooden frame

AI-generated content may be incorrect. A close-up of a wooden box

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