



#25 CHAIN TOOL

USER GUIDE

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Revision History		
Revision	Date	Description
1	08/10/2018	Initial Release

1 #25 CHAIN TOOL OVERVIEW

This custom-designed tool allows teams to easily break and re-assemble #25 chain. The mandrel is used to push out the chain pin. If using master links, the pin can be completely removed, but the depth guide screw allows the option of partially pressing out the pin and then re-assembling without master links.

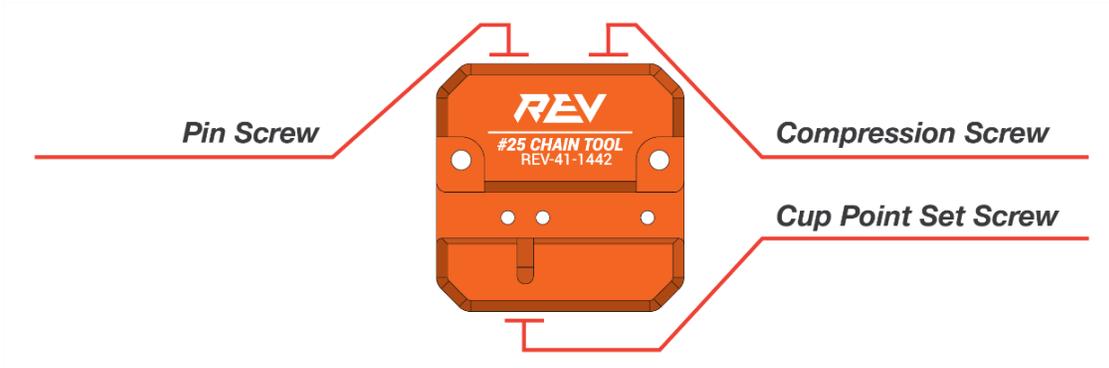


Figure 1: #25 Chain Break Tool Diagram

1.1 KIT CONTENTS

The REV Robotics #25 Chain Break Tool comes with the following:

- 1 Chain tool block
- 2 set screw mandrels
- 1 depth guide screw
- 1 cup point set screw
- 1 3mm Allen Wrench

CAUTION

Before using the #25 Chain Tool for the first time, remove the thread pin screw and use WD-40 or compressed air to remove any shavings left in the tool from the manufacturing process. This will ensure the chain break works smoothly and efficiently breaks your chain. Reinstall the thread pin screw. Once this is complete the chain break is ready for use.

2 USING THE TOOL

This section of the guide details two ways to utilize the #25 Chain Tool, using master links and resetting the chain pin. The included 3mm Allen Wrench works on all three screws of the tool.

2.1 USING MASTER LINKS

 A close-up photograph of the REV #25 Chain Tool (REV-41-1442). The tool is orange and has a central channel. The top and bottom screws are loosened and are not flush with the channel.	<p style="text-align: center;">Step 1</p> <p>Unscrew the pin screw and compression screw such that they are flush with the chain channel.</p>
 A close-up photograph of the REV #25 Chain Tool (REV-41-1442) with a #25 chain (REV-41-1365) inserted into the channel. The chain is positioned between two vertical pins in the channel.	<p style="text-align: center;">Step 2</p> <p>Insert #25 chain (REV-41-1365) into the chain channel and align the desired link between the two vertical pins in the channel.</p>
 A close-up photograph of the REV #25 Chain Tool (REV-41-1442) with the #25 chain (REV-41-1365) inserted. The chain is now secured in place by the compression screw, which is tightened until the chain cannot shift within the channel.	<p style="text-align: center;">Step 3</p> <p>Next secure the chain in place with the compression screw. Tighten until the chain cannot shift within the channel.</p>



Step 4

With the chain in place it can now be broken. Turn the Allen Key until the pin is entirely removed from the chain. Make sure to have a master link on hand (REV-41-1366). You must have one empty link on either side; two plates will not work. The picture shows an example of this step at completion.

Note: Remove the cup point set screw before breaking the chain. This will allow for the pin to completely remove itself from the chain.



Step 5

Place the master link into both links. Next take the plate and put it over the master link. Use pliers and the included clip to lock the master link into place.



Step 6

Done! Chain is ready for use!

2.2 RESETTING CHAIN

	<p style="text-align: center;">Step 1</p> <p>Unscrew the pin screw and compression screw such that they are flush with the chain channel.</p>
	<p style="text-align: center;">Step 2</p> <p>Insert #25 chain (REV-41-1365) into the chain channel and align the desired link between the two vertical pins in the channel.</p>
	<p style="text-align: center;">Step 3</p> <p>Next secure the chain in place with the compression screw. Tighten until the chain cannot shift within the channel.</p>
	<p style="text-align: center;">Step 4</p> <p>With the chain in place it can now be broken. Screw the pin screw down until it almost touches the back screw in the slot. As result of manufacturing tolerances, the cup point set crew may be close enough to use as a hard stop for the pin. The user should stop pushing the pin out before it leaves the back plate. A link is needed on one side and on the other a plate and pin. Considerable pressure will be felt before the pin comes all the way out. This is a good time to stop and take the chain out and to check on the pin. The final result will be the pin still partially connected to the chain (see photo as example).</p> <p>Note: Be careful to not overly push the pin out as it will be impossible to put it back in, and a master link will be needed.</p>



Step 5

Put the link into the plate, and place the extruding link next to the compression screw in the chain channel.



Step 6

Turn the compression screw until the pin is fully seated back into the chain channel.



Step 7

Done! Chain is ready for use!