



# M\*CARBO FN 509 Trigger Spring Kit



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You must be 18 yrs of age to purchase. We advise that all parts purchased from our inventory be installed and inspected by a qualified gunsmith. Modifying your weapon may be prohibited in your state. Do not modify your sear or hammer engagement surfaces. Before installing please be sure to check all local state and federal laws. By installing this part you agree to take full responsibility for any and all legal, health and warranty consequences that may be incurred.



Step 1: Clear your Firearm - Check the chamber, bolt face and magazine well.



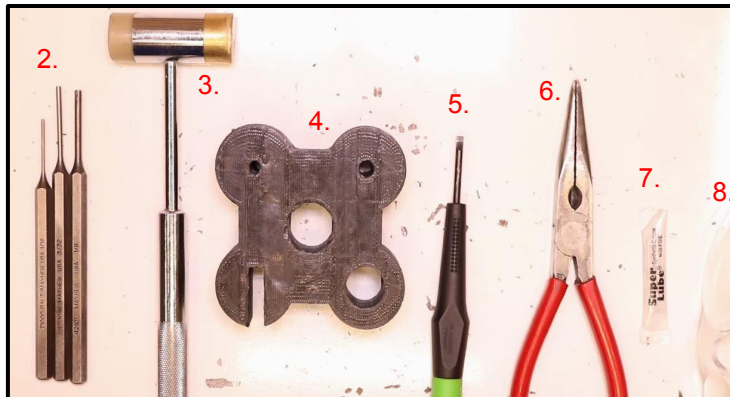
Step 2: Gather Parts and Tools needed for Installation.

1. FN 509 Trigger Spring Kit
2. 1/16" 3/32" and 1/8" Punch
3. Hammer
4. Bench Block
5. Micro-Tip Flathead Screwdriver
6. Needle-Nose Pliers
7. Synthetic Grease
8. Eye Protection

Step 3: Push down on the small Lever and Lock the Slide back.



Step 4: Push down the Takedown lever.





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Step 5: Release the Slide and let it go forward.



Step 7: Place the Frame on your Bench Block Right Side facing up. Identify the Sear Pin Housing.



Step 6: Pull the Trigger and take the Slide off of the Frame.

Step 8: Use your Hammer and 3/32" Punch to Tap out the Sear Pin.







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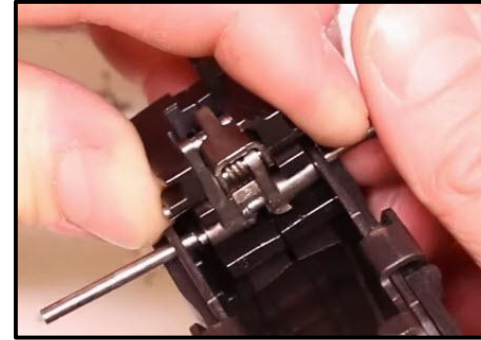
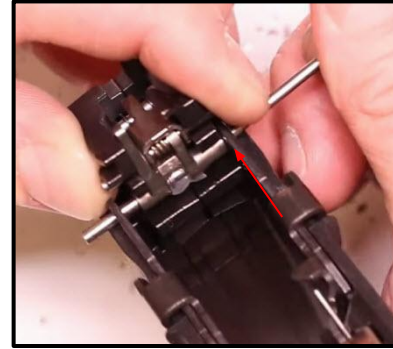
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Step 9: Pull up on the Sear Housing. The Retaining Clip may fall out. If it does do not worry about it for now.



Step 11: Use your 3/32" Punch to Push out the Lower Pin.



Step 10: Notice how the Sear Housing Connects to the Trigger Bar.



Step 12: Remove the Sear Housing from the Frame.





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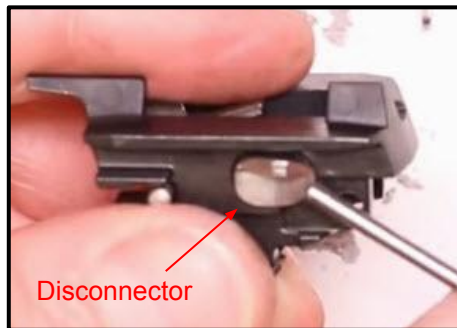


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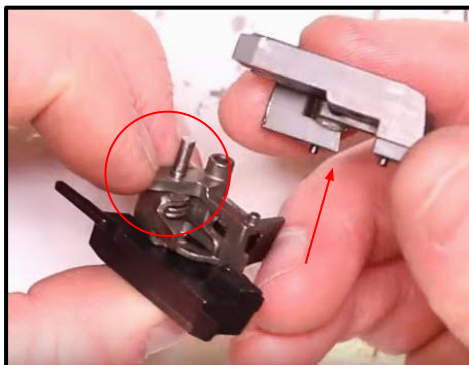
Step 13: Pop out the Disconnecter and Disconnecter Spring.



Step 15: Pull the Sear out of the Remaining Housing.



Step 14: While holding the Sear in Place, pull off the Right Side of the Housing.



Step 16: Open your M\*CARBO FN 509 Trigger Spring Kit.





# M\*CARBO FN 509 Trigger Spring Kit

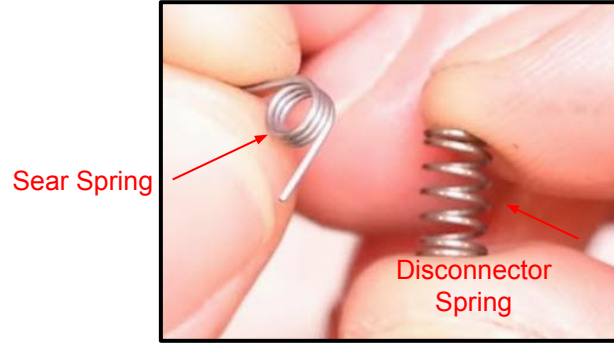


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Step 17: Grab your Sear Spring and Disconnector Spring.



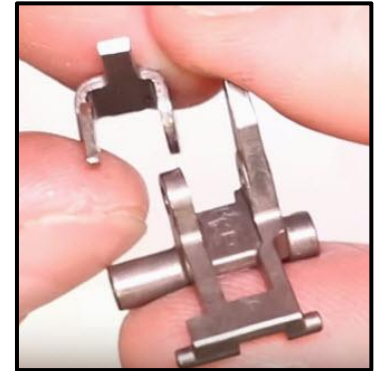
Step 19: Compress the Sear and Gently Push out the Sear Pin.



Step 18: Slide the New Disconnector Spring onto the Disconnector.  
Keep this assembled for later.



Step 20: Remove the Sear Spring from the Carrier.







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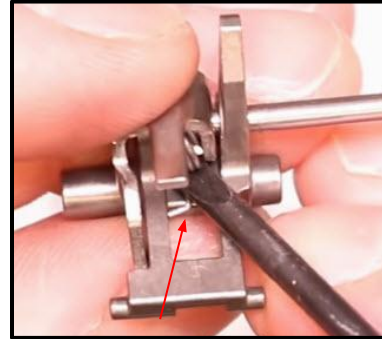
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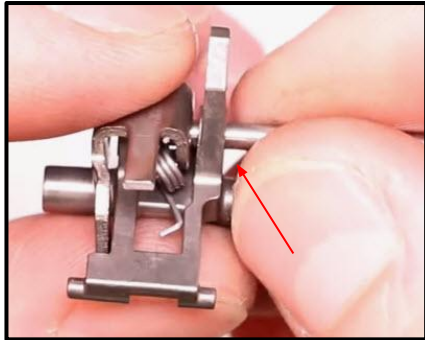
Step 21: Reassemble the Sear Carrier and slide in the Sear Pin.



Step 23: Use your Micro-Tip to Push in the Sear Spring. Then Push the Pin with your Finger until it Locates in the Spring.



Step 22: Drop in the Sear Spring. If necessary, back out the Sear Pin a bit to create extra clearance.



Step 24: Make sure the Holes on the Sear Carrier are lined up, Then Push in the Pin the rest of the way.





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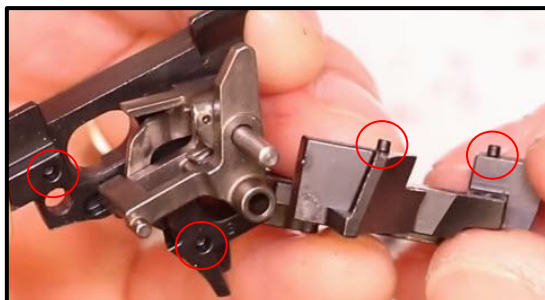
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Step 25: Drop the Sear Assembly into the Left Side of the Sear Housing. Make sure the Sear moves Up and Down.



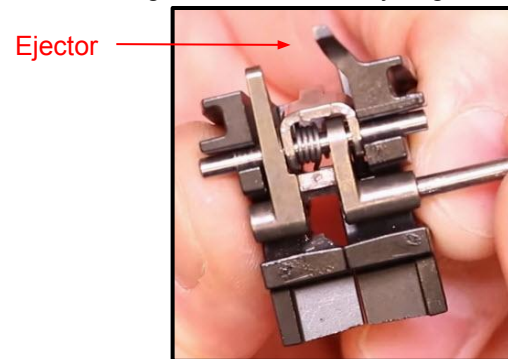
Step 26: Attach the Right Side of the Sear Housing. Make sure the Pegs line up and Compress it in place with your Fingers.



Step 27: Place the Disassembly and Disassembly Spring back into the Sear Housing



Step 28: Turn the Sear Housing so you're seeing the Ejector Side. Insert the Large Pin about halfway to get it started.





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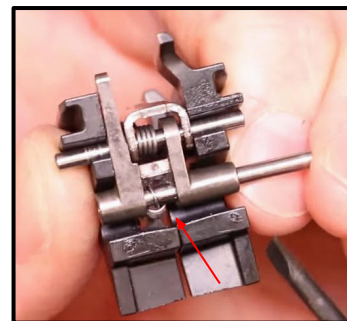
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Step 29: Check which side of the Extension Spring is slightly Bigger by seeing Which Side Fits the Pin Easier.



Step 31: Maneuver the Pin through the Big loop of the Spring then push the Pin all the way through. Use your Micro-Tip to help Guide it if necessary.



Step 30: Grab the Bigger Loop of the Spring with your Needle-Nose Pliers. Drop it into the Sear Housing.



Step 32: Put a little Synthetic Grease on the Eyelid of the Spring.







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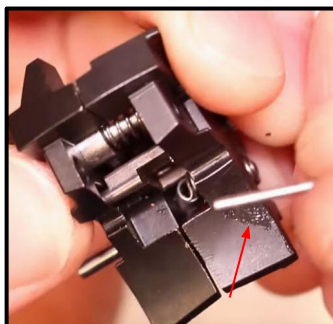
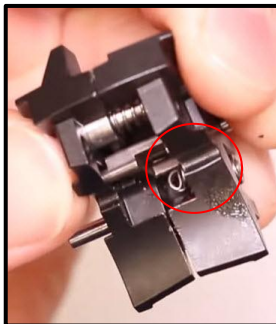


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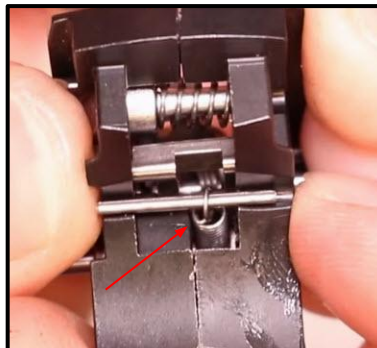
Step 33: While keeping the Assembly compressed, flip it around and grab the remaining Thin Pin.



Step 35: Grab the Retaining Clip. Position the Long End over the Disconnecter.



Step 34: Use the Thin Pin to grab the Eyelid of the Spring. Pry it up and position the Pin in the Grooves of the Housing.



Step 36: Identify the Holes in the Trigger Bar.





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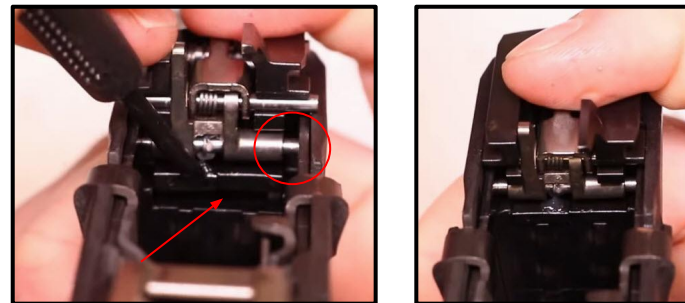
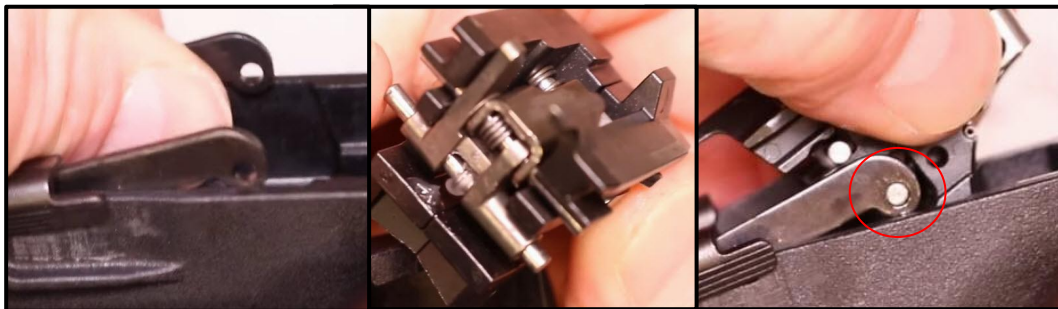
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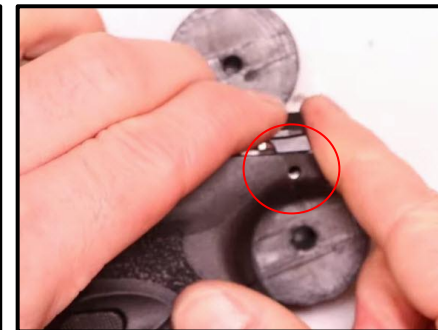
**Step 37:** Pull up on the Trigger Bar. While still keeping the Sear Assembly Compressed, Align the Bottom Pin into both holes.

**Step 39:** Push back the metal Portion of the Sear Housing and Push in any Protruding Screws. The Sear should Lock and Locate in Place.



**Step 38:** Pull back the Sear Assembly and Rotate it Downwards.

**Step 40:** Identify the Sear Pin Hole on the Frame. Prepare it on your Bench Block, Left Side facing up.





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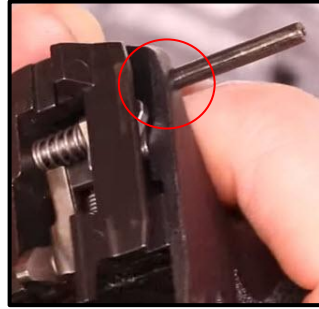


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Step 41: Grab your 3/32" Punch and Feed it through the holes to keep them Lined up. Then Feed the Pin through a little bit by hand.



Step 42: Keep your 3/32" Punch in as a Guideline. Push down on the Sear Housing to make sure everything is aligned.



Step 43: Use your Hammer to Guide in the Pin a bit further. Then Reposition the Frame on your Bench Block and



Step 44: Use your 3/32" Punch and Hammer to Center up the Pin. Make sure the Pin is Recessed on Both Sides.







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**Step 45: (Optional) Place the Slide back on the Frame and Perform a Quick Function Check. Pull the Trigger and Listen for the Reset.**



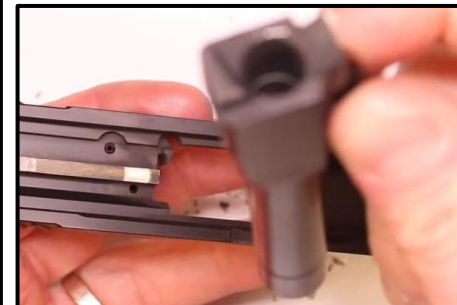
**Step 47: Compress and Pull Out the Recoil Spring.**



**Step 46: Remove the Slide Once again (See Steps 3-6)**



**Step 48: Push up from Underneath on the Barrel and it should pop out.**





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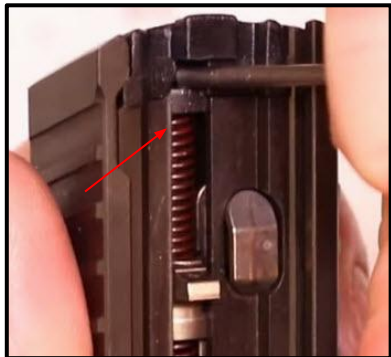


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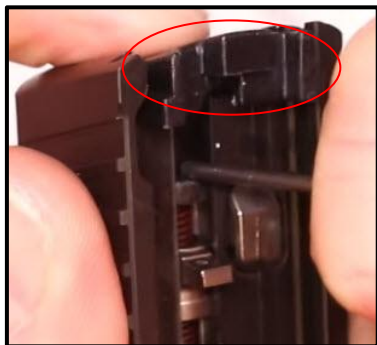
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Step 49: Use your 3/32" punch to Push Down on the Guide Rod



Step 50: While the Guide Rod is Compressed, Slip off the Back Plate.



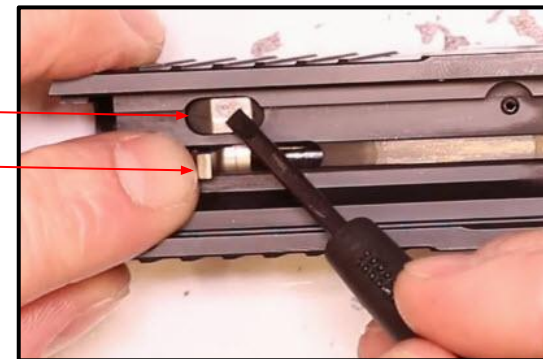
Step 51: Gently Remove Pressure from the Striker Spring, Then remove it.



Step 52: Push forward a bit on the Striker, and simultaneously Push Down on the Striker Block.

Striker Block

Striker





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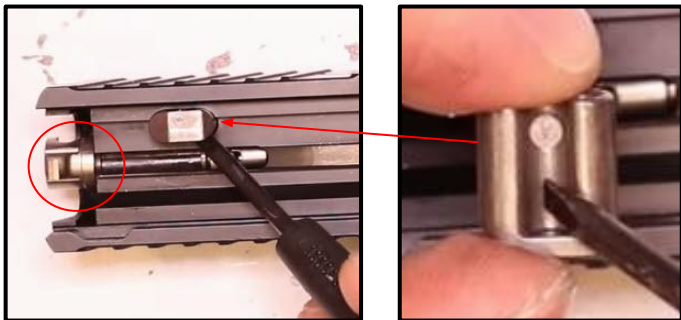


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Step 53: Pull back the Striker until it stops. Then Pull the Striker Block up and out.



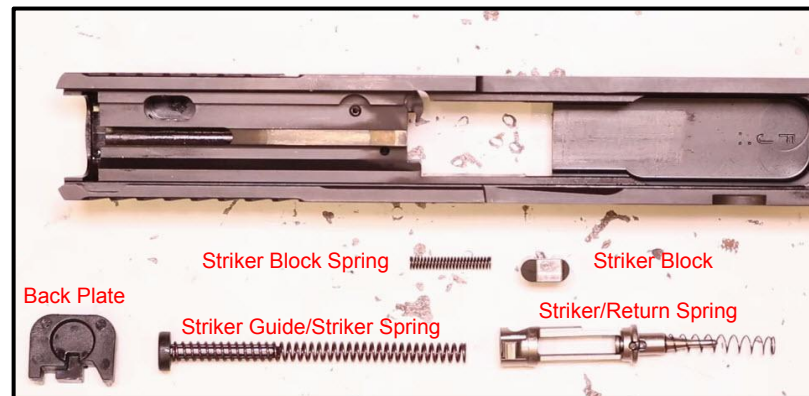
Step 54: Remove the Striker Block Spring.



Step 55: Remove the Striker and Striker Spring.



Step 56: Lay out your parts and Check your Progress.







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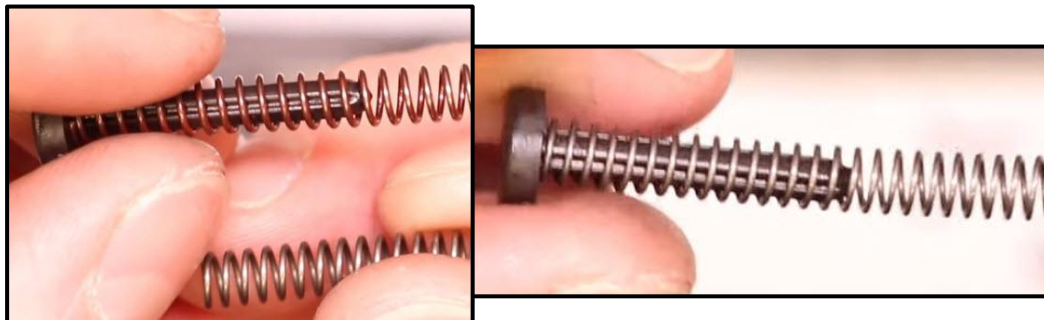


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**Step 57:** Remove the Striker Guide from the Factory Spring and Insert it into the New MCARBO Spring.

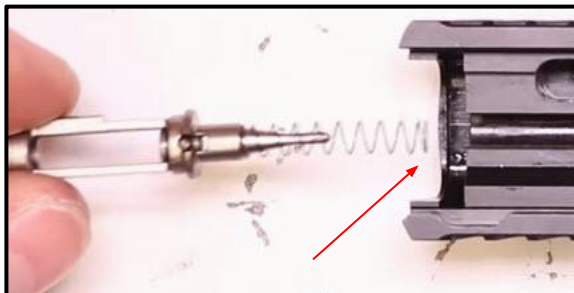


**Step 59:** Make sure the Hole for the Striker Block is clear of Obstructions.



**Step 58:** Re-Insert the Striker and Striker Return Spring.

**Step 60:** Insert the Striker Block Spring into the Open Channel on the Striker Block.





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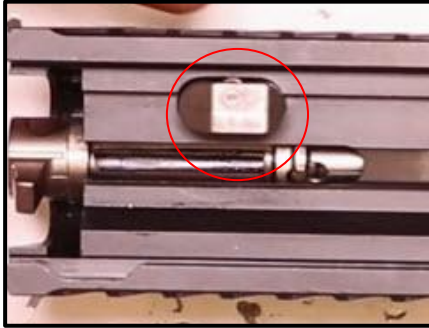


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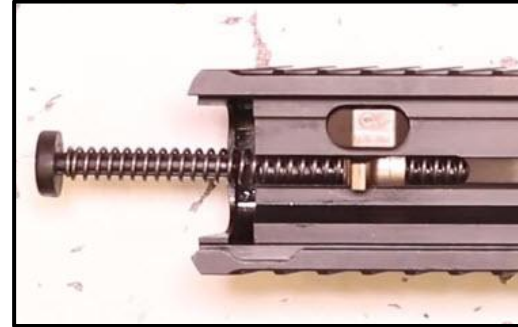
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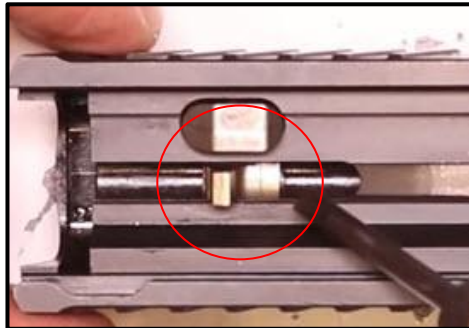
Step 61: Drop the Striker Block back into its place.  
(Spring first, side shown facing the Striker)



Step 63: Insert the Striker Guide and Spring inside the Striker  
(as far as it will go)



Step 62: Push down on the Striker Block and Push the Striker  
Forward. Then let go of the Block and capture the Striker.



Step 64: Turn the Assembly Upright. Get a firm grasp on the Slide and use your  
Micro-Tip to Push Straight down on the Guide.





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Step 65: While the Guide is compressed, Slide the Back Plate on to Capture it.



Step 66: Test the Operation by Pushing down on the Striker Block. This should Release the Striker. Push back on the Striker and it should lock back in place.



Step 67: Drop the Barrel back into the Slide.



Step 68: Place the Guide Rod and Spring back into the Slide. Be sure the Silver part of the Guide Captures in the Barrel.







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Step 69: Put the Slide back on the Frame.

Step 71: Perform a Function Check. Pull the Trigger, Cock your gun and Listen for the Reset.



Step 70: Pull back on the Slide and lock the Takedown Lever. Then Release.

Step 72: You're Ready to Start Shooting!

