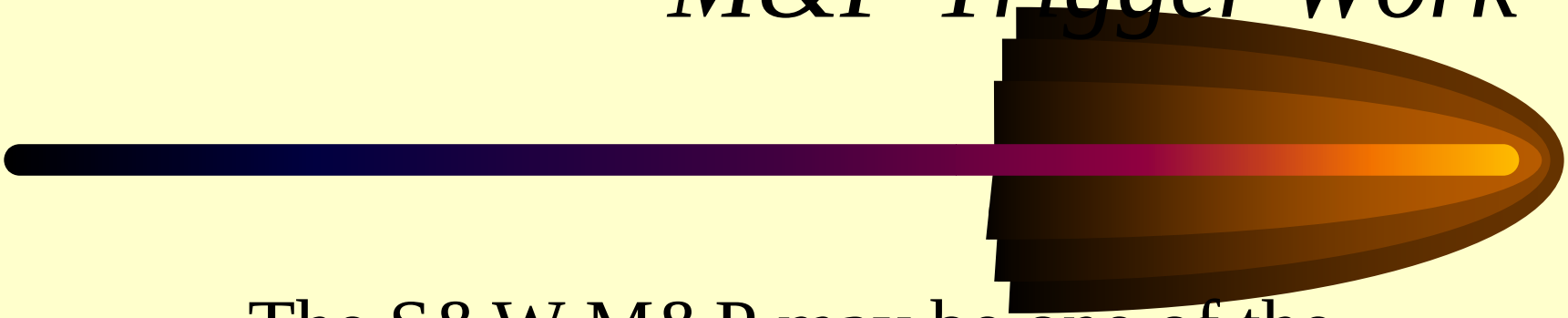
M&P Trigger Work



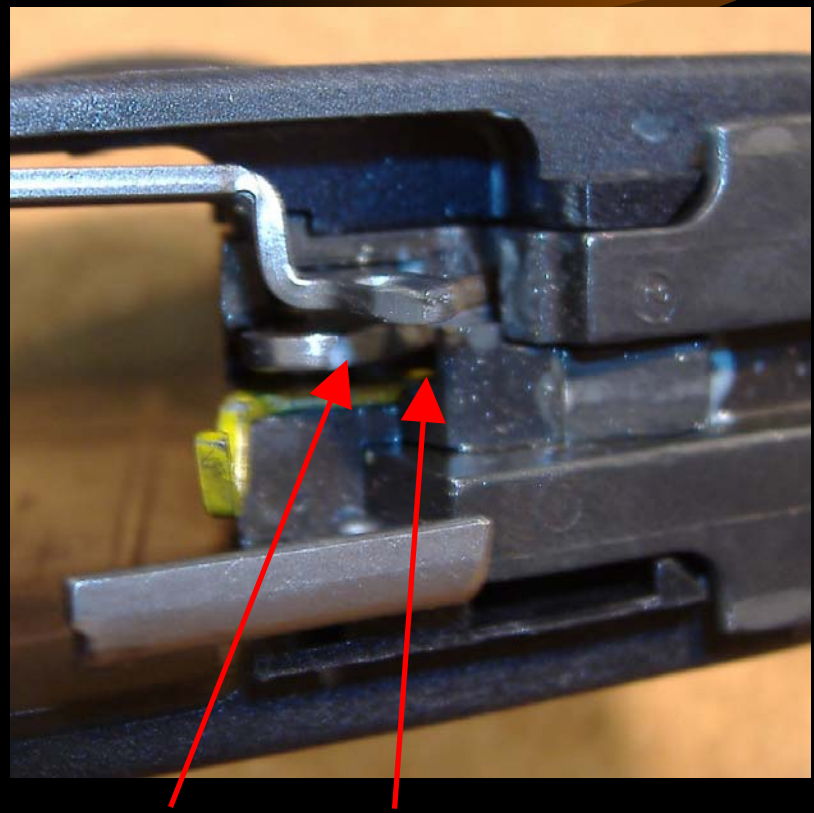
The S&W M&P may be one of the easiest guns ever to do trigger work on.

M&P Trigger Job

- Make sure the gun is unloaded.
- Follow normal field striping procedures.

What needs to be changed

- Over Travel, trigger has too much over travel from the point the sear breaks.
- Re-set, re-set of trigger can be much shorter.
- To take care of over travel and re-set, you must get the trigger bar to engage the sear later. Note how, where and when the trigger bar contacts the sear.



Take out the sear housing block

- Use proper size punch to drive rear role pin out of frame.

Take out the sear housing block

- Role pin can be removed in either direction.
- Use some type of support under frame and drive pin all the way out with hammer and punch.

Take out the sear housing block

- Use punch to pry sear block up and away from frame.
- Take your time and don’t force it.
- Once you get it started, it should come out pretty easy.

Take out the sear housing block

- Once sear housing block starts to come up out of the frame, pull the trigger to take tension off the trigger bar.

Take out the sear housing block

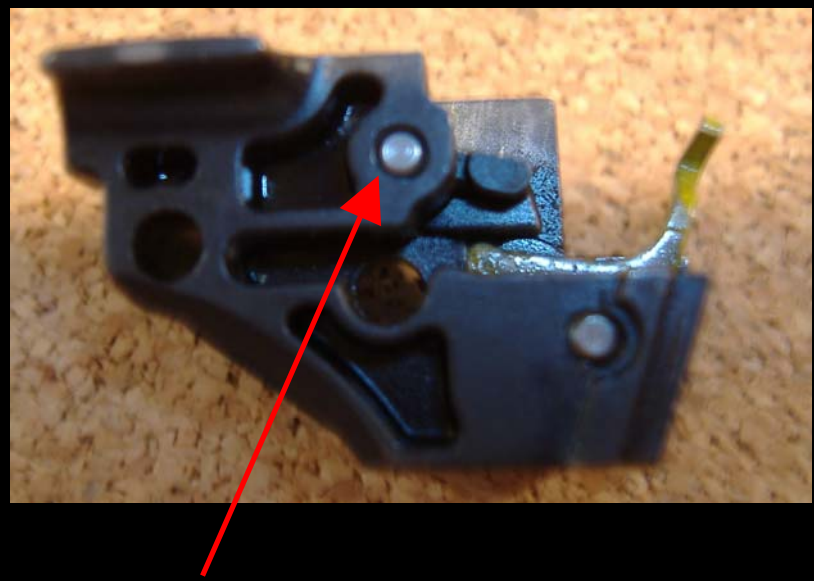
- Once the sear housing block clears the frame, it will slide right off the back of the trigger bar.

Take out the sear housing block

- Remove ejector from sear housing block.
- It just pops out.

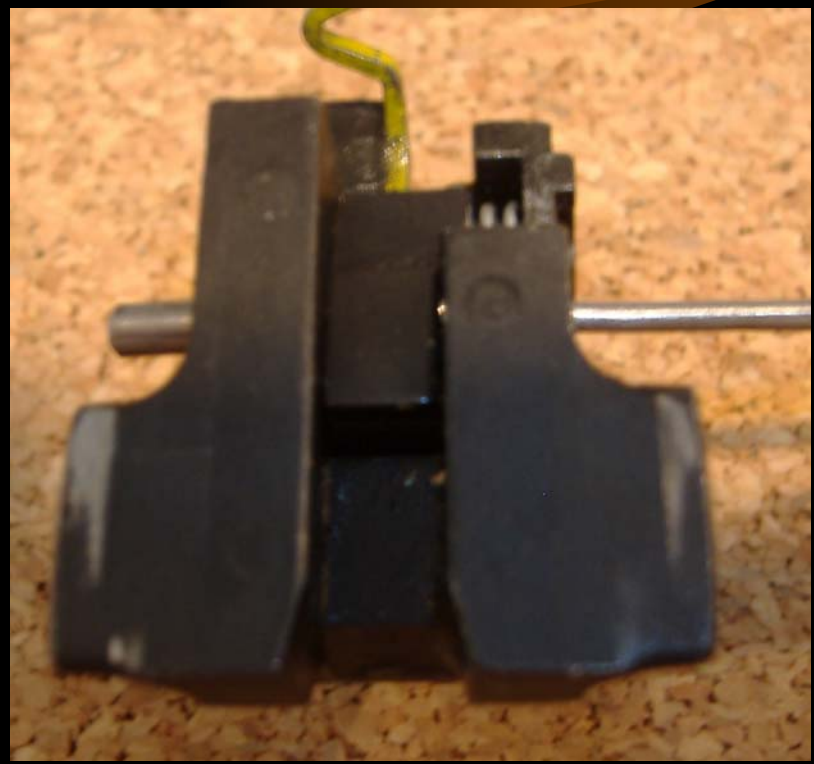
Take sear out of sear housing block

- Locate the sear pin.



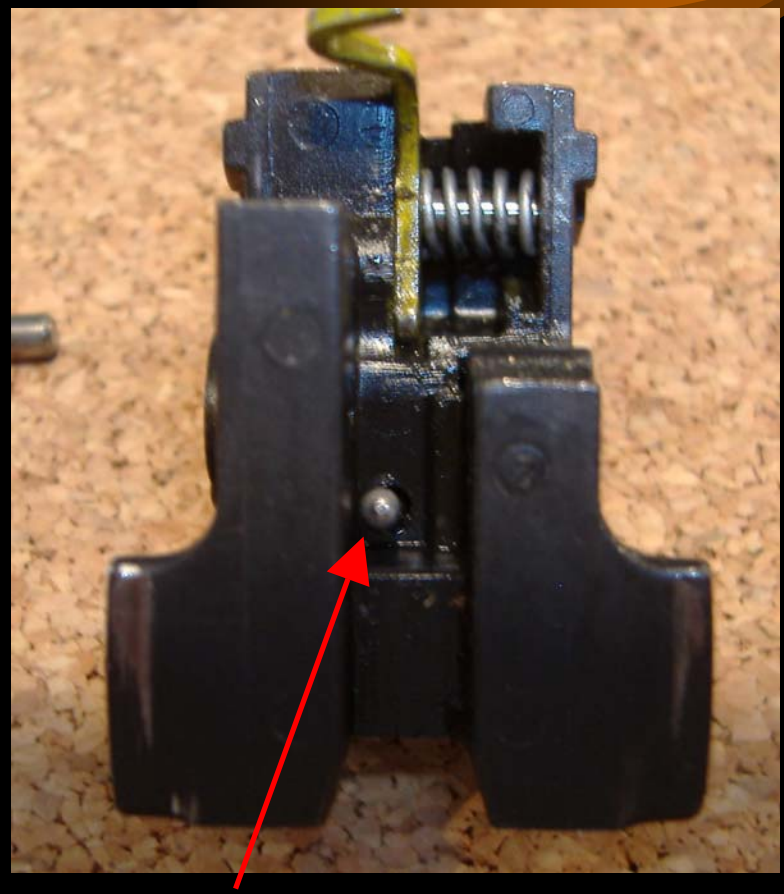
Take sear out of sear housing block

- Push out sear pin.
- Sear pin will come out either way.
- Keep sear housing block in an upright position as shown.



Take sear out of sear housing block

- Keep Block upright to keep sear spring and plunger in place.
- They are hell to get back in.
- Do not cut sear spring, there is no need!

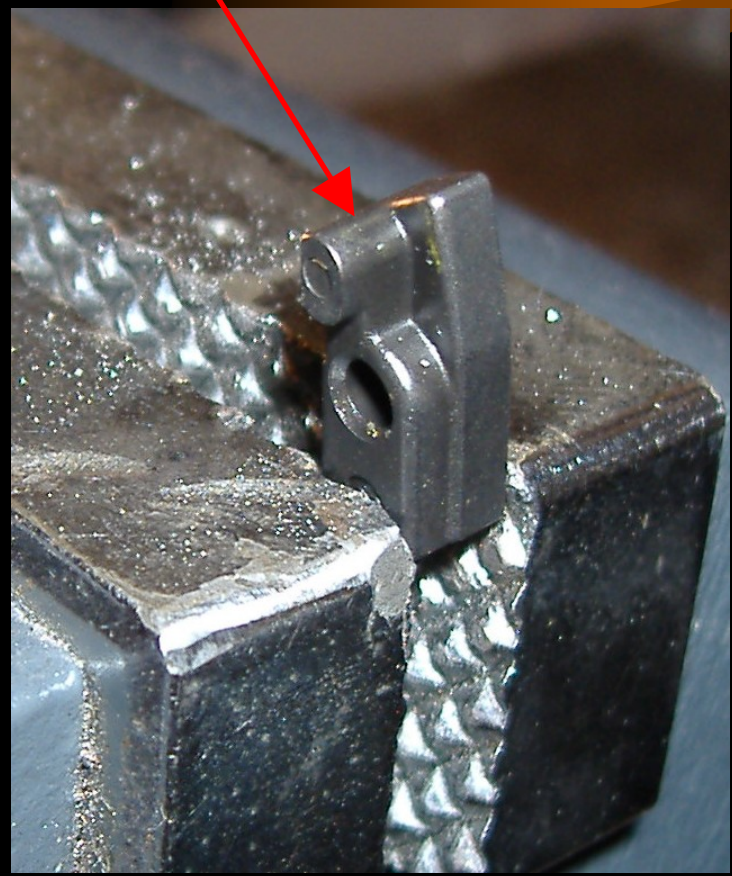


Sear modification for over travel

- This is how the trigger bar and sear look when they are in the frame.
- Arrow shows where material will be removed to cause trigger bar to contact sear later in its travel.

Sear modification for over travel

- Arrow points to location of cut.



Sear modification for over travel

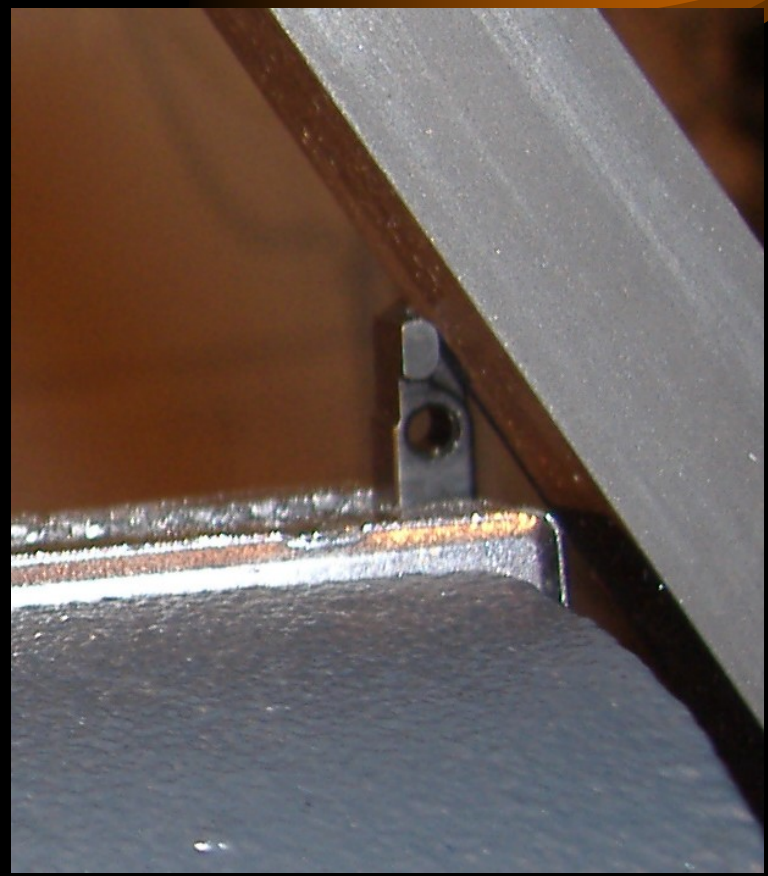
- Cut with file first.

Sear modification for over travel

- Then Cut with Stone.

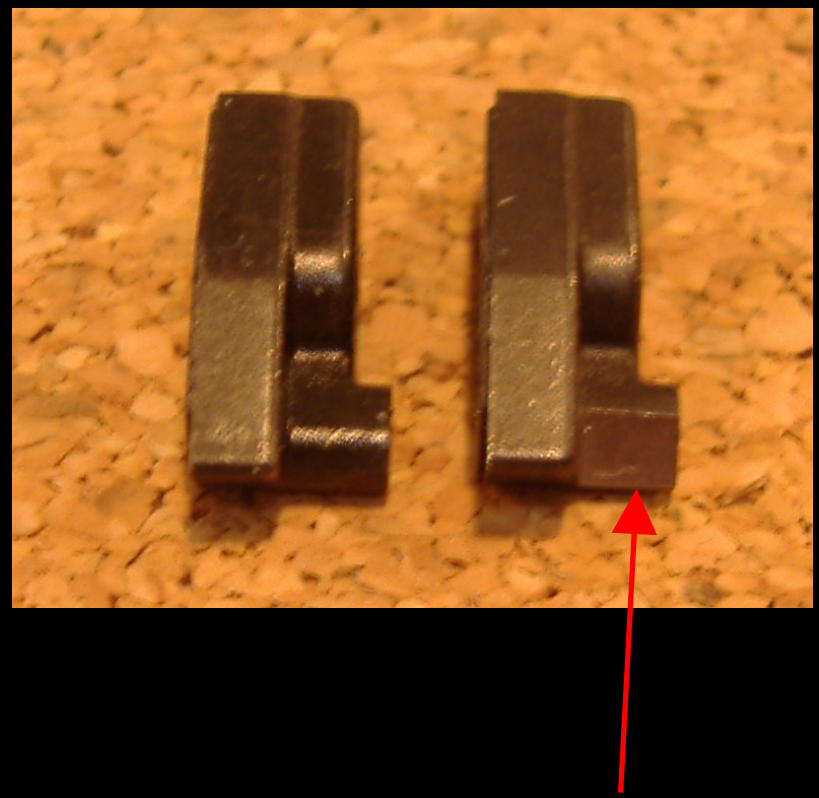
Sear modification for over travel

- Then Polish to mirror finish.



Sear modification for over travel

- Sear on right has over travel cut.

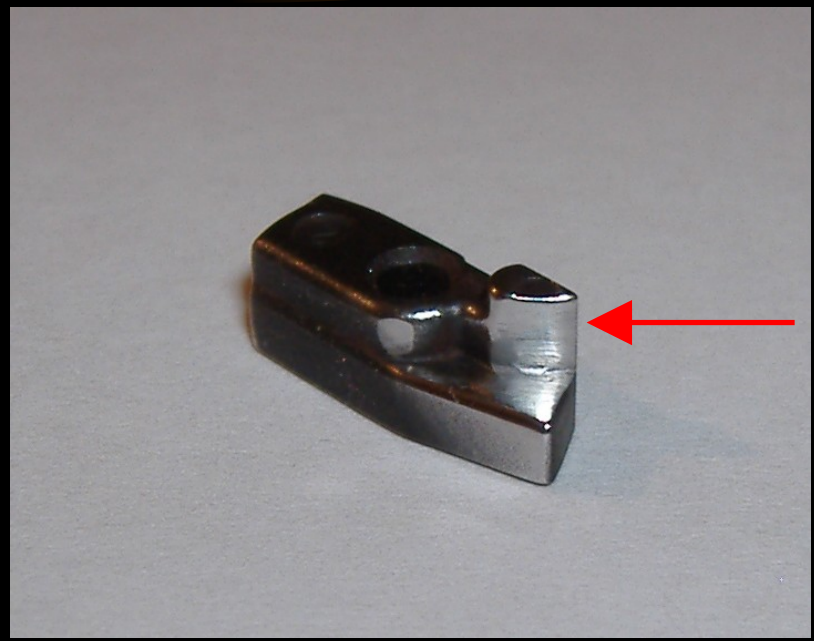


Sear modification for over travel

- Over travel Cut on bottom.
- Every gun is a little different.
- Take you time an don’t over do it, you cannot put material back on!
- Test fit as you go.

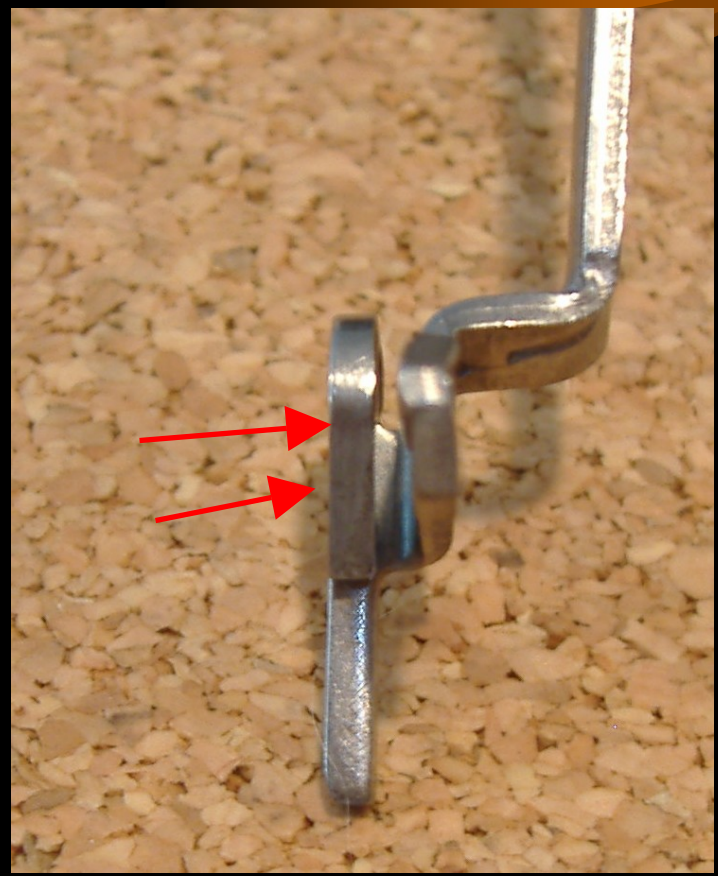
Sear modification for over travel

- Make sure to get nice final polish on the outside edge.
- Arrow shows where trigger bar contacts the sear.
- This area should be a compound angle. Sear moves and angle changes during trigger pull.
- Make sure you round corners to and make this a radius from front to back.



Polish Trigger Bar for smooth action and lighter pull

- Polish this area.
- This is where the trigger bar contacts the sear.



Level One Trigger is done

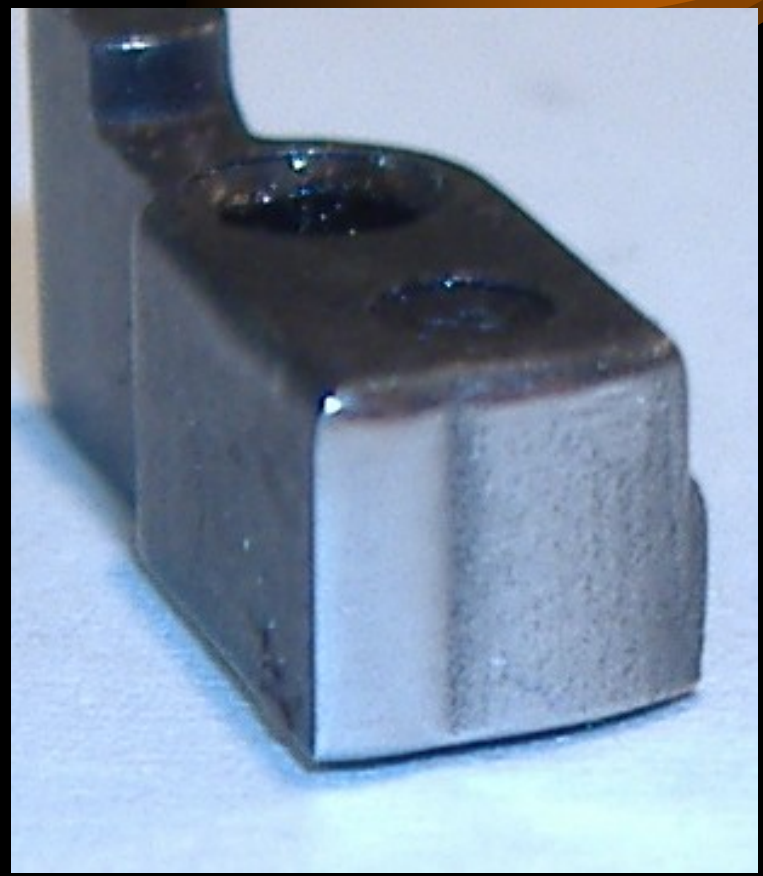
- This much work will improve trigger feel and should give you a pull weight of about 6 lbs.
- You will now have less over travel shorter reset and a more positive reset.

Sear modification for reduced trigger weight

- Stock sear has hump on striker engagement area that cams striker back when pulling trigger.
- Polishing this area will cut down weight.
- Cutting the hump down will also improve the weight.
- Do not cut to a negative angle.

Sear modification for reduced trigger weight

- This sear has been cut and polished. Note that it still has a slight hump to it.
- This will take the trigger weight down to under 5 lbs.



Striker modification for reduced trigger weight

- For best results, the striker should be polished as well.

Striker modification for reduced trigger weight

- End cap is removed just like brand G.
- Striker sleeve must be pushed down to take tension off end cap.

Striker modification for reduced trigger weight

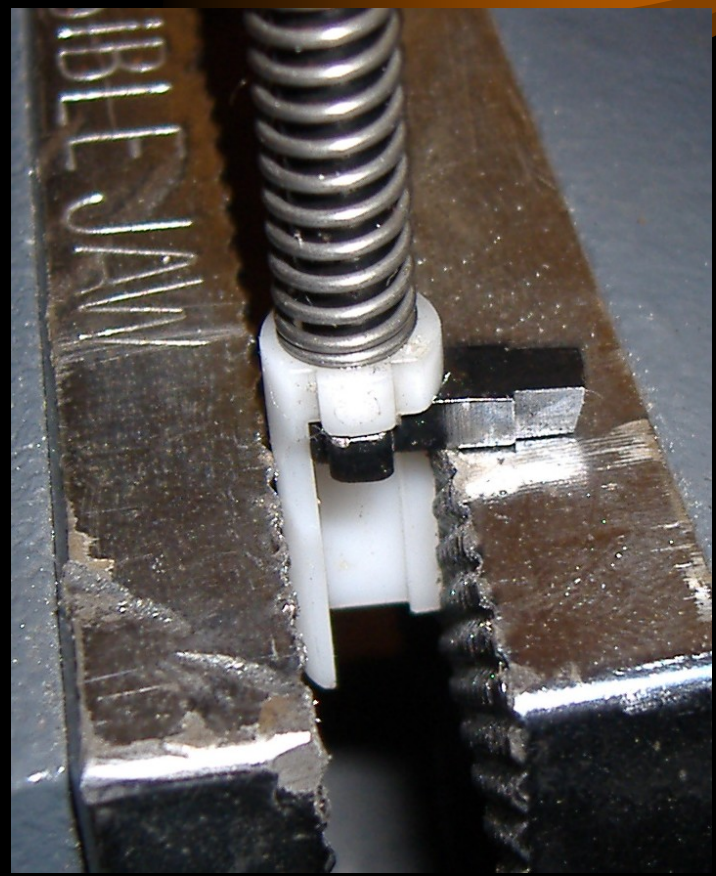
- Once striker sleeve is pushed forward, end cap will slide off as shown.

Striker modification for reduced trigger weight

- Release striker by pushing down on firing pin block.

Striker modification for reduced trigger weight

- Here is stock striker in set up for polish.
- Do not clamp down hard on plastic sleeve, it will break!

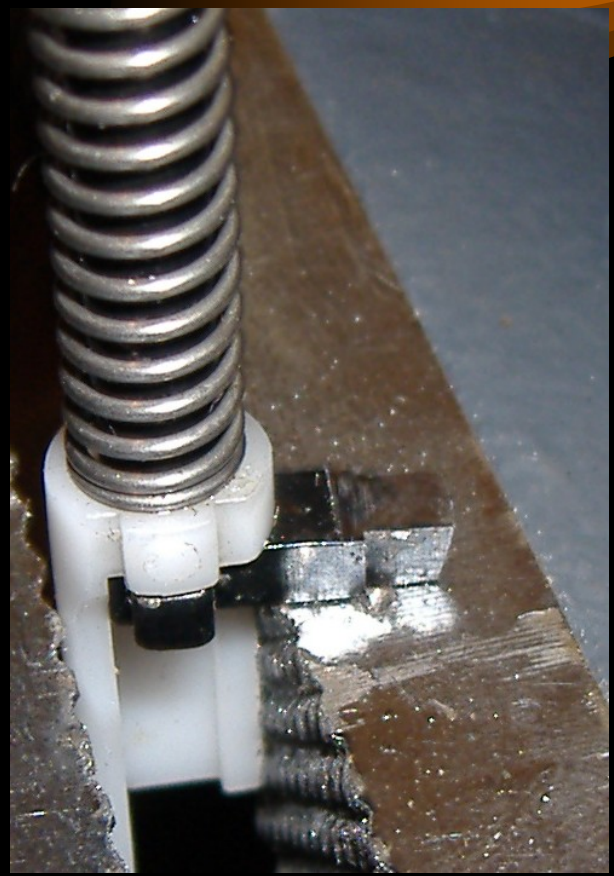


Striker modification for reduced trigger weight

- Polish Striker with stone. No need to change angle on this part.
- Keep stone flat and keep the striker square.

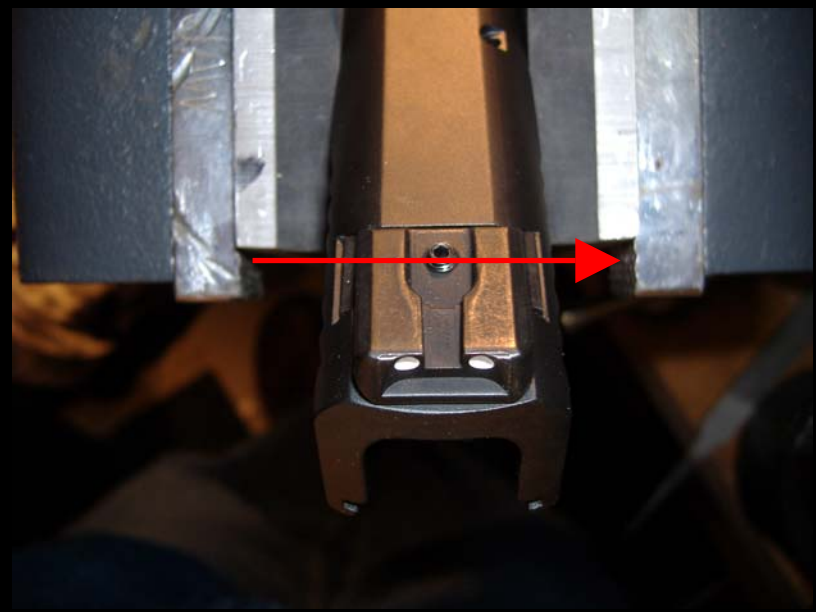
Striker modification for reduced trigger weight

- Polish to a mirror finish with fine cut stone.
- This is really all that needs to be done here.
- Leave the striker spring alone.



Firing pin block modification for reduced trigger weight

- For best trigger pull, the firing pin block needs a little work.
- Rear sight must be removed to get FP block out of slide.
- Sight moves from right to left. As shown.
- Do not go the other way, dove tail has a tapered cut.



Firing pin block modification for reduced trigger weight

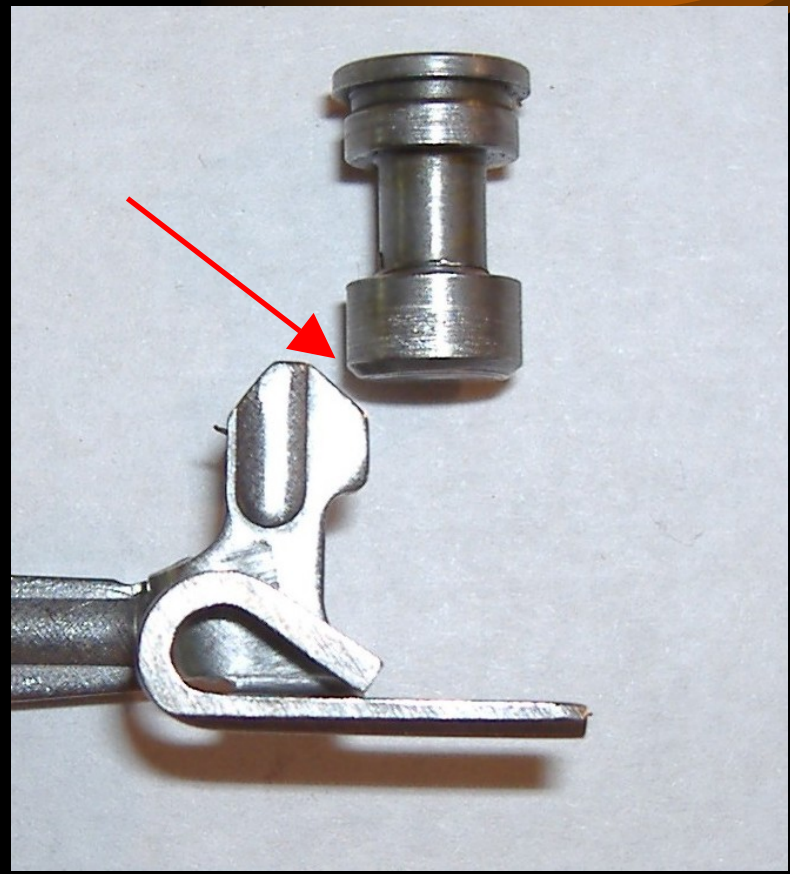
- Back out set screw in rear sight and tap out from left to right.
- Once sight is almost out, look out for FB spring cap and spring!

Firing pin block modification for reduced trigger weight

- Note spring and flat spring cap.
- Take out spring cap and spring, then push out FP Block up through sight dove tail.
- Note that the striker should be out of the gun for this to happen!

Firing pin block modification for reduced trigger weight

- This is how the stock trigger bar and FP block looks in the gun.
- Note fairly square angle on FP block.



Firing pin block modification for reduced trigger weight

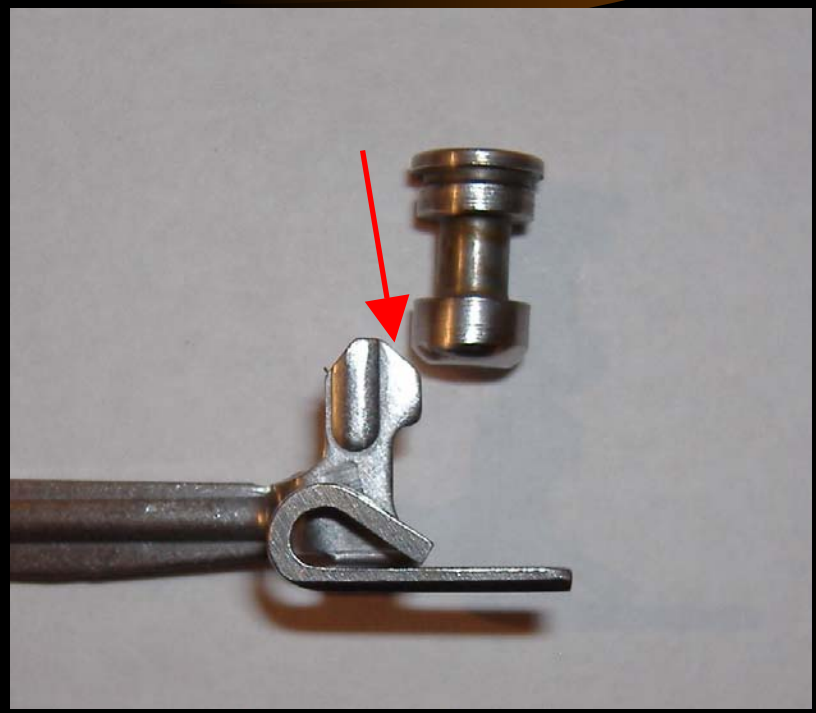
- Put FP block on punch that is just small enough to fit into spring hole.
- Use a 3M Polishing wheel. Don’t use hard cutting stone.
- Note angle to wheel. This will let the FB block rotate as it is cut and polish for a smooth radius cut.

Firing pin block modification for reduced trigger weight

- Finished part on left.
- Note even cut all the way around the FP block.
- This part must rotate as it works.

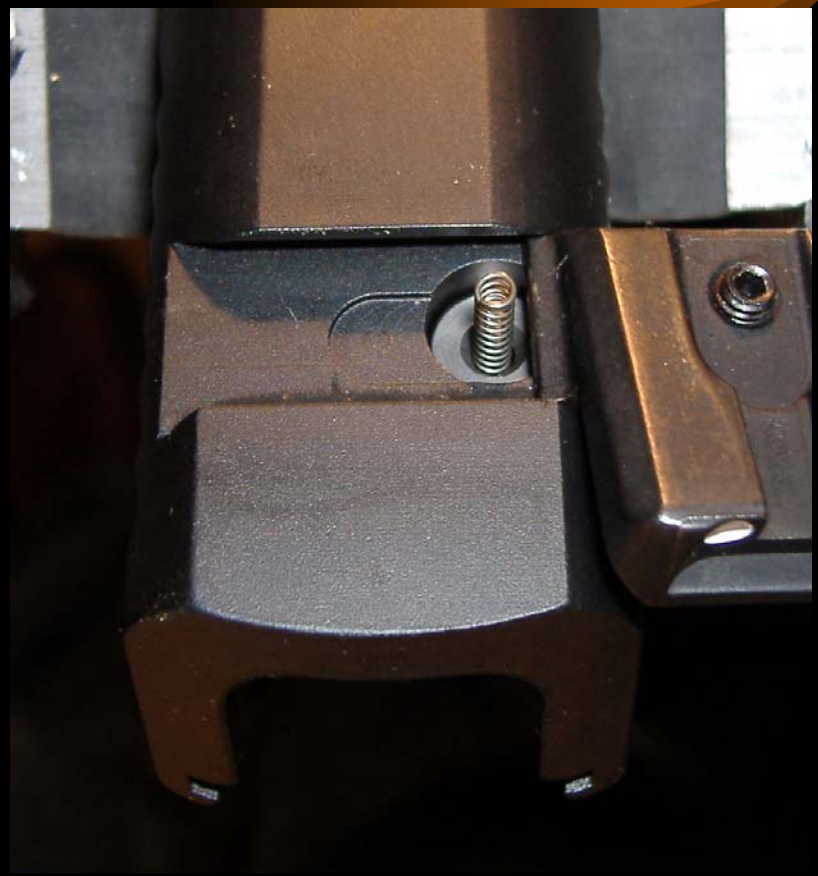
Firing pin block modification for reduced trigger weight

- Here is modified FP block and trigger bar.
- Note improved angle of engagement.
- Also, polish engagement area on trigger bar.
- Do not remove metal from top of trigger bar or top of FP block.



Firing pin block modification for reduced trigger weight

- Clean and re install FP block and spring.
- Start the sight into the dove tail.

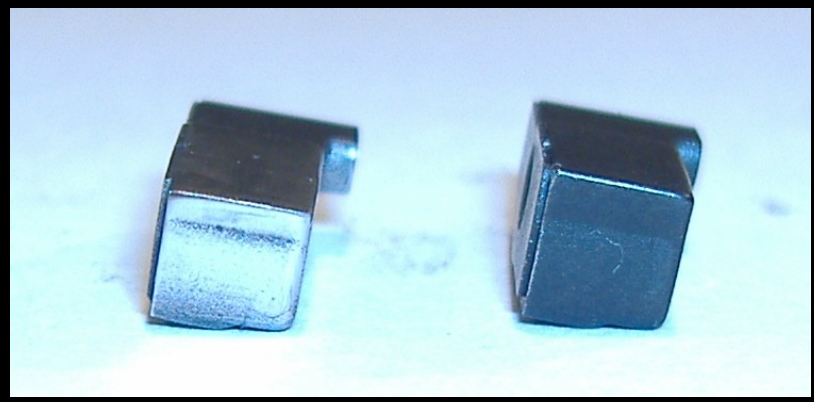


Firing pin block modification for reduced trigger weight

- Clean and re install FP block and spring.
- Start the sight into the dove tail.
- Then compress spring and slide spring cap in place.
- Re-install sight and re-assemble slide.

Sear modification for reduced trigger weight

- Stock sear has between .050” and .060” of engagement with the striker.
- Cutting this engagement down will also reduce trigger weight.
- Sear on left has been cut down to about .028”, I would not go less!
- Note that when this is done you have to make a larger cut on the other side of the sear for over travel as the trigger will break sooner.
- I have gotten reliable trigger pulls of 2.75 lbs with these modification and no spring changes!
- Make sure you cut all the way along the top of the sear so that the striker does not drag across the top. This is not just a simple angle cut.



Put it all back together

- After putting the sear back in the sear housing block. Make sure you put the ejector back in place.

Put it all back together

- Slide leg of trigger bar into slot on on sear housing block. It is just below the sear.

Put it all back together

- Look for slots in frame and slide sear housing block back down in frame.
- Make sure ejector is in place and watch for internal lock frame plug, it can fall out inside of frame.

Put it all back together

- Check sear movement and make sure it moves to level when trigger is pulled.
- Trigger pull can be checked without re-installing role pin. Just make sure role pin is back in place before you hit the range!

Test it out, and have fun!

- Make sure you check everything once it is all back together.
- You can use some, or all of these modifications depending on how light you want the trigger to be.