

For a downloadable copy of this manual as well as links to installation videos, please go to our website:

**[www.franklinarmory.com](http://www.franklinarmory.com)**

If you have a suggestion on how to improve this installation procedure or if you have any questions, please contact us at the following:

Address: Franklin Armory®  
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Minden, NV 89423

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# Franklin Armory®

## Binary Firing System III™ for HK

### Installation and Operation Manual



**Thank you for purchasing your new  
Binary Firing System III™ for HK.**

**We want to do everything we can to help you be safe with your new trigger. Franklin Armory® has partnered with LMS Defense to provide high quality training specifically addressing operational skills with the BFSIII™. Both LMS Defense and Franklin Armory® believe in *safety first*. As such, LMS Defense is offering incentivized BFSIII™ training to all buyers of the BFSIII™. Take as much as \$100 off on a two day class! To sweeten the deal, Franklin Armory® will further incentivize BFSIII™ buyers to take the training by offering a 25% discount code to all BFSIII™ owners that pass an LMS Defense class covering BFSIII™ curricula.**

To register, go to [www.lmsdefense.com/schedule](http://www.lmsdefense.com/schedule) and use “Franklin BFS” as the discount code to get \$50 off a one day class or \$100 off a two day class.



**FRANKLIN ARMORY® PATENTED BINARY FIRING SYSTEM III™ WAIVER AND RELEASE**

**1. STATEMENT OF OPEN AND OBVIOUS DANGER REGARDING THE BINARY FIRING SYSTEM™:**

Firearms, by their very nature, can be lethal.

The Franklin Armory® Binary Firing System III™ (BFSIII™) may inadvertently cause **INJURY** or even **DEATH** if improperly installed or misused.

The BFSIII™ is a unique multi-mode trigger system that requires proper installation and user training for safe operation.

Improper use, misuse, or untrained use of the BFS III™ may lead to the unintentional discharge of the firearm which may cause the following:

**PROPERTY DAMAGE  
PERSONAL INJURY TO SELF OR OTHERS, OR  
DEATH!**

It is imperative that the BFS III™ only be installed, adjusted, and/or repaired by a certified Franklin Armory® armorer. Failure to use a Franklin Armory® armorer to install your trigger may expose you to serious liability including **PROPERTY DAMAGE, PERSONAL INJURY TO YOUR SELF OR OTHERS, AND/OR DEATH!**

Improper installation, use, or tampering with the BFSIII™ will void the warranty and **MAY LEAD TO UNINTENTIONAL DISCHARGE OF THE FIREARM THAT**

**MAY LEAD TO INJURY OR EVEN DEATH. NEVER ALTER ANY COMPONENT OF THE BFSIII™.**

**AFTER THE BFSIII™ HAS BEEN PROPERLY INSTALLED, IT IS IMPERATIVE THAT ALL USERS SEEK QUALIFIED TRAINING ON HOW TO USE THESE PRODUCTS.** Please see the coupon on the back side of this waiver for an offer for high quality subsidized training with LMS Defense.

**WARNING!**

**THE FRANKLIN ARMORY® BFSIII™ HAS THE ABILITY TO FIRE UPON THE PULL AND THE RELEASE OF THE TRIGGER.** Please refer to the BFSIII™ manual for further operational instructions.

**WARNING!**

**FRANKLIN ARMORY® RECOMMENDS THAT ALL USERS ATTEND A TRAINING CLASS OFFERED BY LMS DEFENSE PRIOR TO OPERATING A BFSIII™ EQUIPPED FIREARM. IMPROPER UNDERSTANDING OF HOW THE TRIGGER OPERATES MAY LEAD TO UNINTENTIONAL DISCHARGE OF THE FIREARM AND MAY LEAD TO INJURY OR EVEN DEATH.**

**WARNING!**

**NEVER USE THE BFSIII™ WITH ANY ACCESSORY THAT MIGHT CREATE A SAFETY HAZZARD. SOME SLINGS, BUMP FIRE STOCKS, OR OTHER ACCESSORIES MAY NOT BE SAFE FOR USE WITH THIS PRODUCT.**

**WARNING!**

**NEVER RELY ON MECHANICAL FEATURES. IT IS YOUR RESPONSIBILITY TO ENSURE SAFE HANDLING OF ANY FIREARM INCLUDING THIS BFSIII™ EQUIPPED FIREARM.**

**WARNING!**

**IT IS THE BUYER'S RESPONSIBILITY TO ENSURE THAT THEY ARE IN COMPLIANCE WITH ALL APPLICABLE LAWS AT ALL TIMES WHILE USING THIS PRODUCT. SOME STATES WILL NOT ALLOW CIVILIANS TO USE THE BFSIII™.**

**2. COMPREHENSION OF RISK:**

The BFSIII™ trigger has the ability to fire on the pull and the release of the trigger. By purchasing and/or using the Franklin Armory® BFSIII™, **YOU COMPREHEND THE INHERENT RISK**, including without limitation, of **LIABILITY, INJURY, LOSS, DAMAGE** or **DEATH** as a result of improper installation, use, misuse, tampering, and/or abuse of the BFSIII™.

**3. ASSUMPTION OF RISK:**

By purchasing and/or using the Franklin Armory® BFSIII™, **YOU ASSUME ALL INHERENT RISK AND PERSONAL RESPONSIBILITY**, including without limitation, of **LIABILITY, INJURY, LOSS, DAMAGE** or **DEATH** as a result of improper installation, use, misuse, and/or abuse of the BFSIII™.

**4. WAIVER OF RIGHTS:**

By purchasing and/or using the Franklin Armory® BFSIII™, you waive and release any claim for damages, indemnity, or reimbursement against Franklin Armory® for any claims, fines, or damages imposed upon you for use of the BFSIII™. In addition, you agree to release Franklin Armory® (including its independent contractors, affiliated entities, parent companies, subsidiaries, present and former employees, owners, officers, members, managers, partners, contractors, insurers, shareholders, and directors) from any and all claims, actions, damages, liabilities, losses, costs and expenses (including, without limitation, attorney fees) for death, injury, loss, or damage of property in any way arising out of the purchase and use of the Franklin Armory® BFSIII™. By purchasing and/or using the Franklin Armory® BFSIII™, you agree to limit liability to actual damages arising from gross negligence or willful misconduct of Franklin Armory®. In no event shall Franklin Armory® be liable for any special, incidental, punitive, or consequential damages or other indirect damages.

**5. INDEMNIFICATION:**

By purchasing or using the Franklin Armory® BFSIII™, you agree to accept responsibility for your use of the product and any consequence or fine imposed upon you by any government entity or third party and to indemnify and hold harmless Franklin Armory® for any claims made resulting from your use of the BFSIII™.

**6. TRANSFER OF PRODUCT:**

If you should sell, lease, let someone borrow or use, or in any way transfer the BFSIII™ to any other individual, you agree, as a condition of acquiring this product, to accept the responsibility of insuring that the transferee is fully aware and agrees to the conditions set forth herein. Failure to disclose these conditions to a third party without first providing acknowledgement and acceptance by the transferee of the conditions set herein will be grounds for liability on the part of the transferor.

**7. BINDING EFFECT:**

By purchasing the Franklin Armory® BFSIII™, you agree that this waiver shall be binding upon you as well as your next of kin, personal representatives, heirs, beneficiaries, and assigns and shall inure to the benefit of Franklin Armory® and successors and assigns of Franklin Armory®.

**8. SEVERABILITY:**

If any provision of this Waiver and Release is for any reason declared to be invalid or unenforceable, the validity and enforceability of the remaining provisions will not be affected. The invalid or unenforceable provision will be deemed modified to the extent necessary to render it valid and enforceable, and if no modification may render it valid and enforceable, this Waiver and Release will be construed as if not containing such provision and the rights and obligations of the parties will be construed and enforced accordingly.

**9. GOVERNING LAW:**

This Waiver and Release shall be governed in all respects by the laws of the state of Nevada without regard to conflict and law principles. Any action or claim shall be brought in Douglas County, Nevada.

**10. DISPUTE RESOLUTION: ARBITRATION**

To the extent permitted by applicable law, any controversy or claim arising out of or relating to the product, its design, functionality, or materials, and this contract, or breach thereof, will be settled by binding arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association. Under this arbitration provision, you give up the right to resolve any controversy or claim arising out of or relating to the product, including its design, functionality, materials, or this contract by a judge and/or a jury. You also agree not to participate as a class representative or class member in any class action litigation, any class arbitration or any consolidation of individual arbitrations. The parties specifically agree to the binding nature of the arbitration.

**11. VOLUNTARY ACTION:**

While we sincerely value every Franklin Armory® customer, there is no necessity for anyone to own a Franklin Armory® BFSIII™. There are many other high quality firearms and triggers that the consumer may purchase instead of our products. Please take your time in deciding whether to purchase the BFS III™ products. We intend to maintain supply, so please do not rush this important decision. Please contact the Franklin Armory™ factory if you have any questions. However, if for any reason the conditions set forth in this agreement are unacceptable to you, **THEN DO NOT PURCHASE THIS PRODUCT.**

If you have already purchased a Franklin Armory® BFSIII™, and you do not agree to the terms set herein, then we encourage you to **IMMEDIATELY RETURN THE PRODUCT TO YOUR RETAILER** in an unused, new, condition. Refund terms will be set by each independent retailer.

**THIS IS A WAIVER AND RELEASE OF LIABILITY. YOU AGREE TO THIS ENTIRE DOCUMENT. YOU AGREE TO ALL OF THE PROVISIONS HEREIN AND UNDERSTAND THAT YOU HAVE GIVEN UP SUBSTANTIAL RIGHTS BY AGREEING TO ALL OF THE PROVISIONS. BY PURCHASING, AND CONTINUING TO RETAIN THESE PRODUCTS, YOU ARE INDICATING YOUR VOLUNTARY AGREEMENT TO THE PROVISIONS OF THIS WAIVER**

**Offer void where prohibited by law. Offer subject to change.**



**FRANKLIN ARMORY® BINARY FIRING SYSTEM III™ OPERATION INSTRUCTIONS**

**Patented**

**WARNING!**

**READ AND COMPREHEND THIS DOCUMENT ENTIRELY BEFORE USING THE BFSIII™**

**WARNING!**

**THE FRANKLIN ARMORY® BFSIII™ HAS THE ABILITY TO FIRE UPON THE PULL AND THE RELEASE OF THE TRIGGER. READ AND UNDERSTAND THE OPERATION OF THIS FIREARM BEFORE USING IT!**

**WARNING!**

**THIS PRODUCT IS SOLELY DESIGNED FOR USE BY PROFESSIONAL LAW ENFORCEMENT AND HIGHLY TRAINED PERSONNEL.**

**WARNING!**

**FRANKLIN ARMORY® RECOMMENDS THAT ALL USERS ATTEND A TRAINING CLASS OFFERED BY LMS DEFENSE PRIOR TO OPERATING A BFSIII™ EQUIPPED FIREARM. IMPROPER UNDERSTANDING OF HOW THE TRIGGERS OPERATE MAY LEAD TO UNINTENTIONAL DISCHARGE OF THE FIREARM AND MAY LEAD TO INJURY OR EVEN DEATH.**

**WARNING: DO NOT LIVE FIRE TEST YOUR FIREARM UNTIL YOU HAVE COMPLETED AND PASSED THE BFSIII™ DRY FIRE CHECK LIST**

**What to Expect When Live Fire Testing the BFSIII™ for HK:**

**WARNING:** Keep your finger off the trigger until you are ready to shoot.

**WARNING:** Never point your firearm at anything that you do not intend to destroy.

**WARNING:** Be sure of your target and what is behind it.

**BFSIII™ Three Position Safety Selector:**

**“SAFE” MODE:**

As viewed from the left side of the firearm, Safe Mode is indicated by the Safety Selector pointing to the 1 o'clock position. The lever will point to the bullet with a slash through it. In order for the Safety Selector to be placed into this position, the Hammer must be cocked. With the Safety Selector in Safe Mode, the Trigger should not move, and the Hammer should not fall forward.

**“SEMI” MODE:**

When the Safety Selector is pointing to the right at 3 o'clock, the firearm is in Semiautomatic Mode. For ease of reading, one bullet is used to equate to Semiautomatic Mode. In this position, the firearm will fire one round with every pull of the Trigger. It is not designed to fire upon release of the Trigger while in this mode. The BFSIII™ Safety Selector is designed to lockout the option of rotating from Semi Mode to Binary Mode while the Trigger is held back. Do not attempt to force the Safety Selector further during this instance.

**“BINARY” MODE:**

As viewed from the left side of the firearm, Binary Mode is indicated by the Safety Selector pointing to the lowest position at 5 o'clock. In this position, the firearm will fire one round with every pull of the Trigger, and one round with every release of the Trigger. By releasing the Trigger slightly more, an audible reset should be perceived. Please note that if the operator should pull the Trigger back prior to reset, the Hammer will not be released when the Trigger is pulled. However, when the Trigger is subsequently released, the Hammer will be allowed to fall to the Firing Pin. Consequently, it is recommended that BFSIII™ operators use a “pull through, release through” technique.



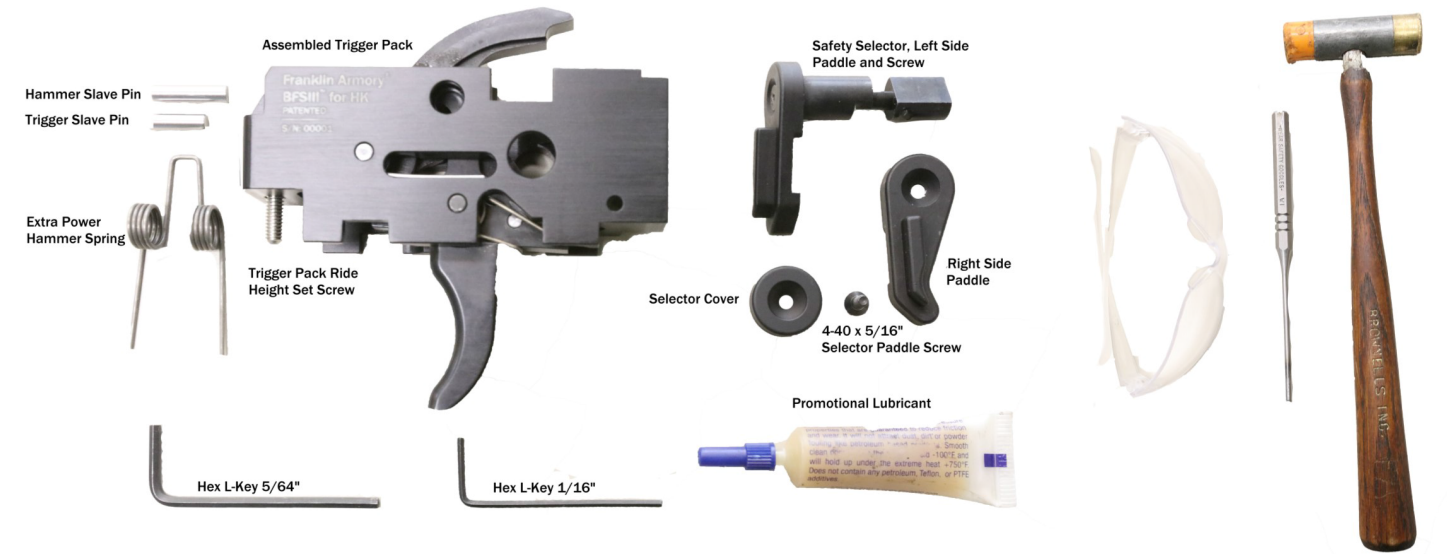
**WARNING:** Always point the muzzle in a safe direction when modulating the Safety Selector.

If the operator, after pulling the Trigger while in Binary Mode, should decide to negate the option of firing a round with the release function of the Trigger, he or she may keep the Trigger held back while using the offhand to modulate the Safety Selector back to Semi Mode. After fully modulating the Safety Selector back to Semi Mode, the operator can then release the Trigger and allow it to reset on the sear.

**Franklin Armory® Patented Binary Firing System III™ for HK Installation Manual**

**Manufacturers Warning:** The Binary Firing System III™ is designed to fit in HK type 91, 93, and 94 firearms. This trigger pack should only be installed by a Franklin Armory® Certified Armorer. Franklin Armory® will not be responsible for an improper installation.

**Step 1: Locate all of the components and tools necessary for the installation. Read the entire instructions before attempting the installation of the BFS III™ for HK.**



**Step 2 :** Ensure that your host firearm is completely unloaded. Consult your Original Equipment Manual on how to ensure that the firearm is unloaded. Remove the Trigger Pack from the host firearm per the instruction that came with the OEM firearm. While wearing safety glasses, remove the Ejector, Ejector Spring, and Ejector Pin from the host firearm. You may want to use a punch to push the Ejector Pin out as shown. (Note: The Ejector, Ejector Spring, and Ejector Pin are not included and must be pulled from the original firearm trigger pack.)

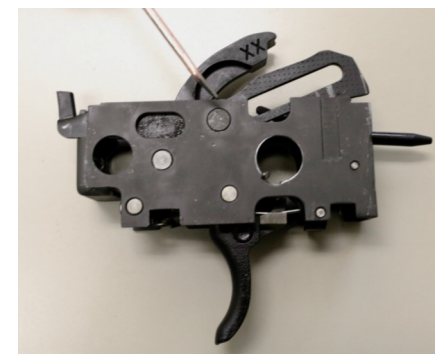


Figure 2A



Figure 2B

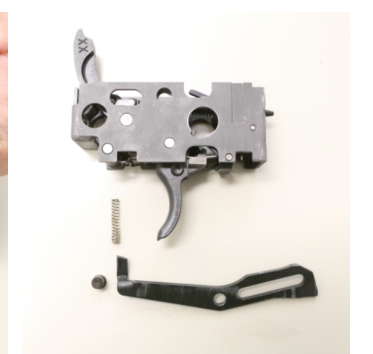


Figure 2C

**Step 3:** Install the Customer supplied Ejector, Ejector Spring, and Ejector Pin in the Franklin Armory® BFSIII™ for HK Trigger Pack. Figure 3A shows the placement of Ejector Spring. Figure 3B shows the Ejector in position above the Ejector Spring, ready to receive the Ejector Pin.



Figure 3A

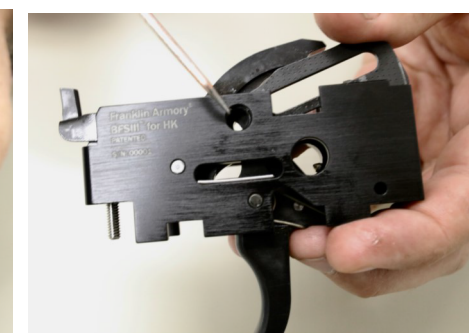


Figure 3B



**Step 4:** Place the Franklin Armory® BFSIII™ for HK Trigger Pack into the Customer supplied housing from the host firearm. Line up the hole for the Selector Shaft on the Trigger Pack with the hole for the Selector Shaft on the housing. Note: Figure 4 shows an “ambL” housing from an SP5K. Your housing may have a smaller hole.



Figure 4



Figure 5A



Figure 5B

**Step 5:** Ensure that the Hammer is cocked. With the Left Side Selector Paddle attached to the Selector Shaft and pointing straight up, slide the Selector Shaft through the Housing and Trigger Pack as shown in Figure 5A and 5B. Note: It is often helpful to apply slight pressure on the hammer while performing this task.

**Step 6:** Install a Right Side Selector Paddle or Selector Cover using the factory supplied 4-40 x 5/16” screw. (Figure 8 shows an Installed Selector Cover.)

**Step 7:** Move the Selector lever through the various modes: Safe, Semi, and Binary mode at the bottom as shown in Figure 7.



Figure 7



Figure 8



Figure 9

**Step 8:** Assemble the completed housing to the host firearm as shown in Figure 8.

**Step 9:** Apply the Left Selector Sticker as shown in Figure 9.

**Step 10:** Apply the Right Selector Sticker on the opposite side in a fashion similar to Figure 9. Now you are ready perform the BFSIII™ Dry Fire Check List.

#### BFS III™ Dry Fire Function Check List

**WARNING:** Always insure that your firearm is completely unloaded before performing a dry fire test. Remove the ammunition magazine, and insure that there is not a loaded round in the chamber.

**WARNING:** Even though you believe your firearm is unloaded, it is always important to point your muzzle in a safe direction while performing the following tasks.

#### 1. Function check the Safety.

- Ensure that the Hammer is cocked on the sear.
- Move the Safety Selector to “Safe” Mode.
- Pull the Trigger.
- The Trigger should not move.
- Move the Safety Selector back to “Semi” Mode.
- The Hammer should not fall forward.

#### 2. Function check the transition from “Semi” to “Safe.”

- Ensure that the Hammer is cocked on the sear.
- Move the Safety Selector to “Semi” Mode.
- Pull the Trigger and keep it held back.
- The Hammer should fall forward and impact the Firing Pin.
- With the Trigger still held back, re-cock the Hammer on the Disconnecter.
- While turning the selector back to “Safe” Mode, the Hammer should not move.
- Release the Trigger.
- The Hammer should fall to the sear.

#### 3. Function check Semi Mode.

- Ensure that the Hammer is cocked on the sear.
- Pull the Trigger and keep it held back.
- The Hammer should fall forward and impact the Firing Pin.
- With the Trigger still held back, re-cock the Hammer.
- It should now be held back by the Disconnecter.
- Release the Trigger.
- The Hammer should now fall to the sear and not to the Firing Pin.

#### 4. Function check the transition from “Semi” to “Binary,” Scenario I

- Move the Selector to “Semi” Mode.
- Ensure that the Hammer is cocked.
- Pull the trigger and keep it held back.
- The Hammer should fall forward and impact the Firing Pin.
- With the Trigger still held back, re-cock the Hammer on the Disconnecter.
- Hold the Trigger back while turning the Safety Selector to Binary Mode.
- The Selector should not be able to turn to Binary Mode.
- The Hammer should not have fallen while manipulating the selector.
- Now release the Trigger.
- The Hammer should fall off the Disconnecter & catch on the sear.

#### 5. Function check the transition from “Semi” to “Binary,” Scenario II

- Move the Selector to “Semi” Mode.
- Ensure that the Hammer is cocked.
- Pull the trigger and keep it held back.
- The Hammer should fall forward and impact the Firing Pin.
- With the Trigger still held back, re-cock the Hammer on the Disconnecter.
- Hold the Trigger back while turning the Safety Selector to Binary Mode.
- The Selector should not be able to fully turn to Binary Mode.
- Continue to maintain pressure on the Selector.
- Release the Trigger while continuing to maintain pressure on the Selector.
- The Hammer should not move.
- Now release pressure on the Selector.
- The Hammer should fall off of the Disconnecter and be caught by the Sear.

#### 6. Function check Binary Mode, Scenario I

- Ensure that the Hammer is cocked on the sear.
- Move the Safety Selector to “Binary” Mode.
- Pull the Trigger and keep it held back.
- The Hammer should fall forward and impact the Firing Pin.
- Re-cock the Hammer on the Disconnecter.
- Slowly release the Trigger until the Hammer falls to the Firing Pin.
- Keep your finger held at the point that the Hammer fell forward
- Re-cock the Hammer on the Disconnecter.
- Release the Trigger and the Hammer should reset to the Sear.

#### 7. Function check Binary Mode, Scenario II

- Ensure that the Hammer is cocked on the sear.
- Move the Safety Selector to “Binary” Mode.
- Pull the Trigger and keep it held back.
- The Hammer should fall forward and impact the Firing Pin.
- Re-cock the Hammer on the Disconnecter.
- Slowly release the Trigger until the Hammer falls to the Firing Pin.
- Keep the Trigger held at the point that the Hammer fell forward
- Re-cock the Hammer on the Disconnecter.
- Pull the Trigger in and the Hammer should not fall.
- Release the Trigger slowly until the Hammer falls to the Firing Pin.
- While keeping your finger at the breaking point, re-cock the Hammer.\*
- Release the Trigger again, and it should reset at the Sear.

#### 8. Function check Intermodal travel from Binary Mode to Semi Mode.

- Ensure that the Hammer is cocked on the sear.
- Ensure that the Safety Selector is in “Binary” Mode.
- Pull the Trigger and keep it held back.
- The Hammer should fall forward and impact the Firing Pin.
- Re-cock the Hammer on the Disconnecter.
- Continue to hold the Trigger back
- Rotate the Safety Selector from “Binary” Mode to “Semi” Mode.
- The Hammer should fall off the Disconnecter and rest on the Sear.



Figure 10

If your Trigger Pack should fail the BFSIII™ Dry Fire Check List, it might be due to the pack sitting too low in the housing. If this is the case, a slight ride height adjustment can be made by turning the Ride Height Adjustment Set Screw clockwise in quarter turn increments with the Hex L-key 5/64” as shown in Figure 10. Between each quarter turn, it is necessary to go through the entire BFSIII™ Dry Fire Check List to find the appropriate ride height for your Trigger Pack. Whence this position is found, it is necessary that the set screw be set in place with Loctite. We recommend red Loctite for this application. Please note that most Trigger Packs will not require any Ride Height Adjustment, and when this is the case, the Ride Height Set screw should still be thread locked so that it does not move under recoil.

The Trigger Pack is built from the factory with a Blue Hammer Spring that features three coils on each side. It works best with 9x19 applications. For all 5.56 NATO and 308 Winchester applications, it will be necessary to replace the Blue Hammer Spring with the Increased Power Hammer Spring that features four coils on either side. In order to perform the task the Ejector will have to be removed. To facilitate easier Ejector Pin removal a punch may be used from the opposing side as shown in Figure 11.



Figure 11



Figure 12



Figure 13A



Figure 13B

After the Ejector, Ejector Spring, and Ejector Pin have been removed, the Hammer Pin may be Punched out as shown in Figure 12. Note that the Hammer has a left and right spacer held in by the hammer pin. Do not let them roll away. Figure 13A and Figure 13B show how the new spring should be oriented.



Figure 14A



Figure 14B



Figure 14C

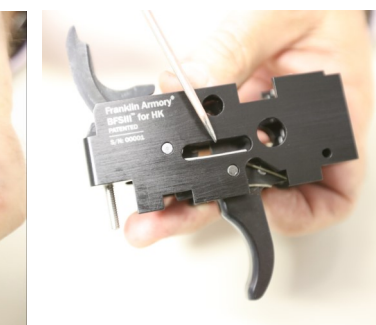


Figure 14D

Assemble the Hammer, Hammer Spring, Left and Right Spacer, and the Hammer Slave Pin together as shown in Figure 14A. Align this assembly in the Trigger pack so that the Hammer Slave Pin may be observed from the exterior as shown in Figure 14B. With the Hammer Slave Pin aligned, reinstall the Hammer Pin as shown in Figure 14C. Figure 14D shows that a properly reinstalled hammer will have the legs of the hammer spring captured on a shelf on the side of the Trigger Pack.

A Trigger Slave Pin has been included in this assembly, however, we recommend that a certified Franklin Armory® Armorer perform all service work on this assembly. Improper reassembly may void the warranty.