

Franklin Armory®

Binary Firing System III™ for AK

Installation and Operation Manual



For a downloadable copy of this manual as well as links to installation videos, please go to our website: 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®
2246 Park Place, Suite B
Minden, NV 89423

Email:

info@franklinarmory.com

Phone:

775-783-4313

Thank you for purchasing your new
Binary Firing System III™ for AK

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 and use “Franklin BFS” as the discount code to get \$50 off a one day class or \$100 off a two day class.



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

FRANKLIN ARMORY® BINARY FIRING SYSTEM III™ WAIVER AND RELEASE

Patent #9,952,012, 9,952,013, 10,107,580, and 10,393,461

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 BFSIII™ 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 BFSIII™ 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™ AND NEVER OPERATE THE BFSIII™ IF ANY OF THE COMPONENTS ARE MISSING, DAMAGED, OR WORN.**

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 read the instructions thoroughly before operating the BFSIII™ in your firearm.

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 HAZARD. SOME SLINGS, 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 ensuring 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 acknowledgment 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:

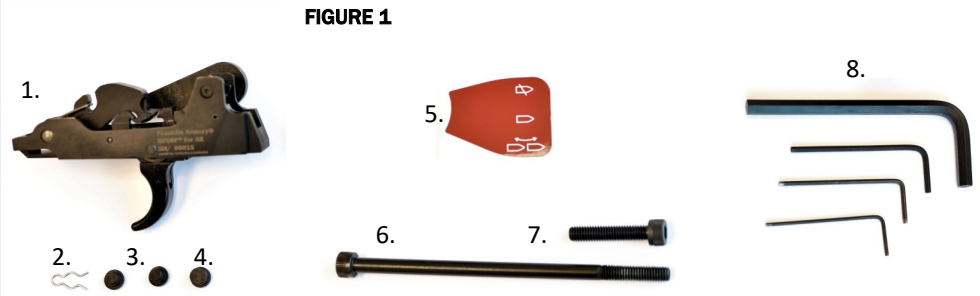
While we sincerely value every Franklin Armory® customer, there is no necessity for anyone to own a Franklin Armory® BFSIII™. There are many other high-quality firearms and triggers that the consumer may purchase instead of our products. Please take your time in deciding whether to purchase the BFSIII™ 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 AND RELEASE OF LIABILITY.

Parts Included: SEE FIGURE 1

1. (1) Assembled BFSIII™ for AK Trigger Group
2. (1) Hammer Retainer
3. (2) Small Top Hat Plug
4. (1) Large Top Hat Plug
5. (1) Right Side Red Indicator Sticker
6. (1) Long Grip Screw, 6mm x 1
7. (1) Short Grip Screw, 6mm x 1
8. (4) Hex Key Tools
 - 5mm x 3-3/8"
 - 5/64" x 2-1/16"
 - 1/16" x 1-7/8"



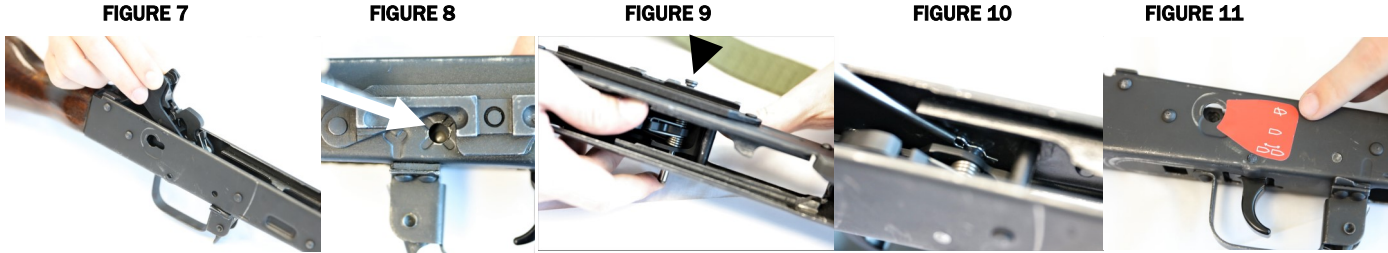
BFSIII™ for AK Assembly Instructions

Note: Due to the wildly varying specifications of the AK platform, the BFSIII™ for AK may not fit and function in all variants on the market. This product will not work with most "underfolder" and 12 gauge variants. 9mmx19 chambered variants require an assembly with a specific hammer.

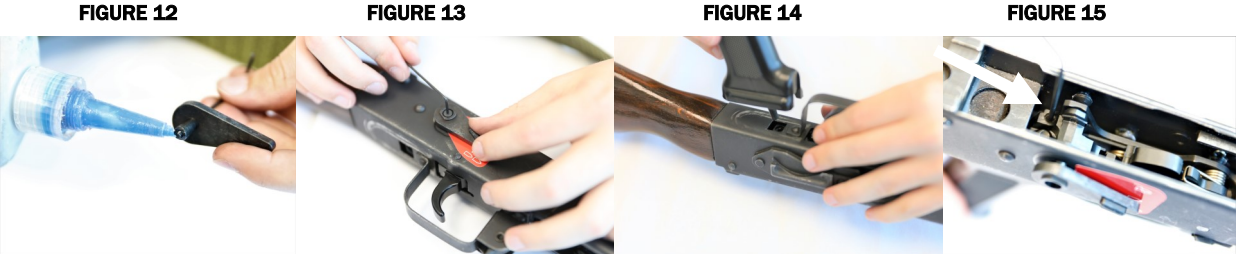
- Step 1:** Make sure that the firearm is unloaded per the OEM manufacturer's instructions. Be certain that the magazine is removed and the chamber is clear.
- Step 2:** Remove the OEM Top Cover, Recoil Spring, Bolt Carrier Group, Fire Control Group, and Grip.
- Step 3:** Use a Small Top Hat Plug to fill the open hole on the left side of the AK receiver. **SEE FIGURE 2**
- Step 4:** A small amount of superglue (not included) may be very helpful to hold it in place. **SEE FIGURE 3**
- Step 5:** Use one Large Top Hat Plug and one Small Top Hat Plug to fill the holes in the OEM Receiver where the OEM Trigger Pin was removed. **SEE FIGURE 2**
- Step 6:** Use the 1/16" x 1-7/8" Hex Key Tool to remove the Right Side selector Paddle from the Assembled BFSIII™ for AK Trigger Group. **SEE FIGURE 4**



- Step 7:** Use the .050" x 1-5/8" Hex Key Tool to remove the two Trigger bow Screws. **SEE FIGURES 5 & 6**
- Step 8:** Insert the BFSIII™ for AK Trigger Group into the OEM Receiver. **SEE FIGURE 7**
- Step 9:** Align the Hammer Pin Hole in the OEM Receiver with the Hammer Slave Pin on the BFSIII™ for AK Trigger Group. **SEE FIGURE 8**
- Step 10:** Push the OEM Hammer Pin through the receiver hole from Left to Right. This will force the Hammer Slave Pin out the right side. **SEE FIGURE 9**
- Step 11:** Install the Hammer Retainer on the OEM Hammer Pin between the OEM Receiver and the left side of the BFSIII™ for AK Trigger Group. **SEE FIGURE 10**
- Step 12:** Apply the Red Indicator Sticker on the right side of the OEM Receiver. **SEE FIGURE 11**



- Step 13:** Use the 1/16" x 1-7/8" Hex Key to reinstall the Right Side Selector Paddle to the BFSIII™ for AK Trigger Group. Use thread locker. **SEE FIGURES 12 & 13**
- Step 14:** Use the 5mm x 3-3/8" Hex Key to loosely thread the Long Grip Screw to the BFSIII™ for AK Trigger Group while reattaching the OEM Grip. (The Short Grip Screw is for some aftermarket grips. We cannot guarantee that it will fit all aftermarket grips.) **SEE FIGURE 14**
- Note: Some OEM AK Receivers will have a boss that is riveted to the receiver. If your firearm has this feature, you will need to either remove the boss, or drill out the threads so that the Grip Screw can freely pass through the receiver and screw into the BFSIII™ for AK Trigger Group.*
- Step 15:** Move the Selector Paddle to Binary Mode (where the two bullets and double arrow is shown,) and reinstall the OEM Bolt Carrier Group and Recoil Spring.
- Step 16:** Use the 5/64" x 2-1/16" Hex Key to adjust the ride height of the BFSIII™ for AK Trigger Group. It should be position so that the Bolt Carrier Group barely clears the BFSIII™ for AK Trigger Group. **SEE FIGURE 15**
- Step 17:** Reinstall the OEM Top Cover.
- Step 18:** Remove the Long Grip Screw, holding the OEM Grip in place. Apply a small amount of thread locker to the Long Grip Screw threads, and reinstall the OEM Grip. Tighten to 40 inch-pounds.
- Step 19:** Confirm that the OEM Bolt Carrier Group still clears the BFSIII™ for AK Trigger Group. Readjust as necessary.
- Step 20:** Perform the "dry-fire checklist."



FRANKLIN ARMORY® BINARY FIRING SYSTEM III™ OPERATING INSTRUCTIONS

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 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 CHECKLIST

What to Expect When Live Fire Testing the BFSIII™ for AK

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 right side of the firearm, Safe Mode is indicated by the Safety Selector pointing to the highest 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 should 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 middle position, 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 lock out 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 right side of the firearm, Binary Mode is indicated by the Safety Selector pointing to the lowest position. 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.

BFSIII™ Dry Fire Function Check List

WARNING: Always ensure that your firearm is completely unloaded before performing a dry fire test. Remove the ammunition magazine, and ensure 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.**
 - A. Ensure that the Hammer is cocked on the sear.
 - B. Move the Safety Selector to "Safe" Mode.
 - C. Pull the Trigger.
 - D. The Trigger should not move.
 - E. Move the Safety Selector back to "Semi" Mode.
 - F. The Hammer should not fall forward.
- 2. Function check the transition from "Semi" to "Safe."**
 - A. Ensure that the Hammer is cocked on the sear.
 - B. Move the Safety Selector to "Semi" Mode.
 - C. Pull the Trigger and keep it held back.
 - D. The Hammer should fall forward and impact the Firing Pin.
 - E. With the Trigger still held back, re-cock the Hammer on the Disconnecter.
 - F. While turning the selector back to "Safe" Mode, the Hammer should not move.
 - G. Release the Trigger.
 - H. The Hammer should fall to the sear.
- 3. Function check Semi Mode.**
 - A. Ensure that the Hammer is cocked on the sear.
 - B. Pull the Trigger and keep it held back.
 - C. The Hammer should fall forward and impact the Firing Pin.
 - D. With the Trigger still held back, re-cock the Hammer.
 - E. It should now be held back by the Disconnecter.
 - F. Release the Trigger.
 - G. The Hammer should now fall to the sear and not to the Firing Pin.
- 4. Function check Binary Mode, Scenario I**
 - A. Ensure that the Hammer is cocked on the sear.
 - B. Move the Safety Selector to "Binary" Mode.
 - C. Pull the Trigger and keep it held back.
 - D. The Hammer should fall forward and impact the Firing Pin.
 - E. Re-cock the Hammer on the Disconnecter.
 - F. Slowly release the Trigger until the Hammer falls to the Firing Pin.
 - G. Keep your finger held at the point that the Hammer fell forward
 - H. Re-cock the Hammer on the Disconnecter.
 - I. Release the Trigger, and the Hammer should reset to the sear.
- 5. Function check Binary Mode, Scenario II**
 - A. Ensure that the Hammer is cocked on the sear.
 - B. Move the Safety Selector to "Binary" Mode.
 - C. Pull the Trigger and keep it held back.
 - D. The Hammer should fall forward and impact the Firing Pin.
 - E. Re-cock the Hammer on the Disconnecter.
 - F. Continue to hold the Trigger back
 - G. Rotate the Safety Selector from "Binary" Mode to "Semi" Mode.
 - H. Release the Trigger.
 - I. The Hammer should fall off the Disconnecter and rest on the Sear.
- 6. Function check the transition from "Semi" to "Binary," Scenario I**
 - A. Move the Selector to "Semi" Mode.
 - B. Ensure that the Hammer is cocked.
 - C. Pull the Trigger and keep it held back.
 - D. The Hammer should fall forward and impact the Firing Pin.
 - E. With the Trigger still held back, re-cock the Hammer on the Disconnecter.
 - F. Hold the Trigger back while turning the Safety Selector to Binary Mode.
 - G. The Selector should not be able to turn to Binary Mode.
 - H. The Hammer should not have fallen while manipulating the selector.
 - I. Now release the Trigger.
 - J. The Hammer should fall off the Disconnecter & catch on the sear.
- 7. Function check the transition from "Semi" to "Binary," Scenario II**
 - A. Move the Selector to "Semi" Mode.
 - B. Ensure that the Hammer is cocked.
 - C. Pull the Trigger and keep it held back.
 - D. The Hammer should fall forward and impact the Firing Pin.
 - E. With the Trigger still held back, re-cock the Hammer on the Disconnecter.
 - F. Hold the Trigger back while turning the Safety Selector to Binary Mode.
 - G. The Selector should not be able to fully turn to Binary Mode.
 - H. Continue to maintain pressure on the Selector.
 - I. Release the Trigger while continuing to maintain pressure on the Selector.
 - J. The Hammer should not move.
 - K. Now release pressure on the Selector.
 - L. The Hammer should fall off of the Disconnecter and be caught by the Sear.
- 8. Function check Intermodal travel from Binary Mode to Semi Mode.**
 - A. Ensure that the Hammer is cocked on the sear.
 - B. Ensure that the Safety Selector is in "Binary" Mode.
 - C. Pull the Trigger and keep it held back.
 - D. The Hammer should fall forward and impact the Firing Pin.
 - E. Re-cock the Hammer on the Disconnecter.
 - F. Continue to hold the Trigger back
 - G. Rotate the Safety Selector from "Binary" Mode to "Semi" Mode.
 - H. Release the Trigger.
 - I. The Hammer should fall off the Disconnecter and rest on the Sear.

