

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

www.FranklinArmory.com

UPGRADE YOUR 2A.

"Those who would give up essential Liberty, to purchase a little temporary Safety, deserve neither liberty nor Safety."

-BENJAMIN FRANKLIN

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

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EFEIII®SP-S1

Binary Firing System® For Stribog SP9 A1, A3, & A3G Installation and Operation Manual

V1.6 - 5.7.2024



FRANKLIN ARMORY® PATENTED BINARY FIRING SYSTEM® 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® (BFSTM) may inadvertently cause INJURY or even DEATH if improperly installed or misused. The BFSTM 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 BFSTM 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 BFSTM 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 YOURSELF OR OTHERS, AND/OR DEATH!

Improper installation, use, or tampering with the BFSTM 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 BFS™ AND NEVER OPERATE THE BFS™ IF ANY OF THE COMPONENTS ARE MISSING, DAMAGED, OR WORN. AFTER THE BFSTM HAS BEEN PROPERLY INSTALLED, IT IS IMPERATIVE THAT ALL USERS SEEK QUALIFIED TRAINING ON HOW TO USE THESE PRODUCTS.

WARNING: THE FRANKLIN ARMORY® BFS™ HAS THE ABILITY TO FIRE UPON THE PULL AND THE RELEASE OF THE TRIGGER. PLEASE READ THE IN-STRUCTIONS THOROUGHLY BEFORE OPERATING THE BFS™ IN YOUR FIREARM.

WARNING: FRANKLIN ARMORY® RECOMMENDS THAT ALL USERS SEEK QUALIFIED TRAINING PRIOR TO OPERATING A BFS™ TRIGGER OR BFS™ 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 BFS™ WITH ANY ACCESSORY THAT MIGHT CREATE A SAFETY HAZARD. SOME SLINGS, 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 ANY EQUIPPED WITH THIS BFS™ TRIGGER.

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 OWN AND USE THE BFSTM.

2. COMPREHENSION OF RISK

The BFSTM Trigger has the ability to fire on the pull and the release of the Trigger. By purchasing and/or using the Franklin Armory® BFSTM, 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 BFSTM

3. ASSUMPTION OF RISK

By purchasing and/or using the Franklin Armory® BFS™, 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 BFSTM

By purchasing and/or using the Franklin Armory® BFSTM, 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 BFSTM. 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® BFSTM. By purchasing and/or using the Franklin Armory® BFSTM, 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.

By purchasing or using the Franklin Armory® BFSTM, 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 BFSTM.

6. TRANSFER OF PRODUCT

If you should sell, lease, let someone borrow or use, or in any way transfer the BFSTM 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® BFSTM, 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®.

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.

While we sincerely value every Franklin Armory® customer, there is no necessity for anyone to own a Franklin Armory® BFSTM. 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 BFSTM 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® BFSTM, 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 UNDER-STAND 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.

BFSIII® DRY FIRE FUNCTION CHECK LIST

Before using your BFSIII® equipped firearm for the first time, and each time you use your firearm again thereafter, we recommend that each operator run through the following litany of dry fire function checks. By doing so, you will not only ensure that your BFSIII® is operating correctly, you will also train your thought process on what to expect from your trigger system

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

- A. Ensure that the hammer is cocked on the sear.
- В. Move the safety selector to "Safe" Mode.
- C. Pull the Trigger.
- D. The Trigger should not move.
- Release the trigger and move the Safety Selector back to "Semi" Mode.
- The Hammer should not fall forward.

Function Check the Transition from "Semi" to "Safe"

- Ensure the Hammer is cocked on the sear. A.
- B. 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. D.
- With the Trigger still held back, re-cock the Hammer on the Disconnector.
- While turning the selector back to "Safe" Mode, the Hammer should not move.
- Release the Trigger.
- The Hammer should fall to the sear.

Function Check Semi Mode

- A. 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.
- D. With the Trigger still held back, re-cock the Hammer.
- E. It should now be held back by the Disconnector.
- 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 1

- A. Move the Selector to "Semi" Mode.
- B. Ensure that the Hammer is cocked.
- C. 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 Disconnector.
- Hold the Trigger back while turning the Safety Selector to Rinary® Mode
- The Hammer should not have fall while manipulating the selector.
- Now release the Trigger.
- The Hammer should fall off of the Semiautomatic Disconnector and be caught by the sear.

5. Function Check the Transition from Semi to Binary, Scenario 2

- A. Move the Selector to "Semi" Mode.
- B. Ensure the Hammer is cocked.
- C. Pull the trigger and keep it 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 Disconnector.
- 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 Disconnector and be caught by the sear.

6. Function Check Binary® Mode, Scenario 1

- A. Ensure that the Hammer is cocked on the sear.
- Move the Safety Selector to Binary Mode.
- Pull the Trigger and keep it held back. C.
- The Hammer should fall forward and impact the Firing Pin.
- Re-cock the Hammer on the Disconnector.
- Slowly release the Trigger until the Hammer falls on the firing pin. F.
- Keep your finger held at the point that the Hammer fell forward.
- Re-cock the Hammer on the Disconnector.
- Release the trigger and the hammer should reset to the sear.

7. Function Check Binary® Mode, Scenario 2

- A. Ensure that the Hammer is cocked on the sear.
- 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 Disconnector.
- F. Slowly release the trigger until the Hammer falls on the Firing Pin.
- Keep the trigger held at the point that the Hammer fell forward.
- Re-cock the Hammer on the Disconnector.
- Pull the Trigger and the Hammer should not fall.
- Release the Trigger slowly until the Hammer falls on the Firing Pin
- K. 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® to Semi Mode

- A. Ensure that the Hammer is cocked on the sear. Ensure that the Safety Selector is in "Binary" Mode.
- C. Pull the Trigger and keep it held back.
- The Hammer should fall forward and impact the Firing Pin. Re-cock the Hammer on the Disconnector.
- F. Continue to hold the Trigger back.
- Rotate the Safety Selector from "Binary" mode to "Semi" mode.
- Н. Release the trigger.
- The Hammer should fall off the Disconnector and rest on the sear

This concludes the function test of the BFSIII®

What to Expect When Live Fire Testing the BFSIII®

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

WARNING: Never Point your firearm at anything you are not willing to destroy.

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

Test the Safe Mode

With the Safety Selector in Safe Mode, the Trigger should not move, and the Hammer should not fall forward.

Test the Semiautomatic Mode

With the Safety Selector in Semi Mode, the firearm should fire one round every time the trigger is pulled.

When the trigger is released, the Hammer should reset to the sear.

Test the Binary® Mode

With the Safety Selector in Binary® Mode, the firearm should fire once every time the Trigger is pulled and once again when the Trigger is release. By releasing the trigger slightly more, an audible reset should be perceived.

NOTE: It may be possible to fire on the pull phase in Binary Mode, and then again on the release phase in Binary Mode, but if the release phase reset is not performed, an operator can potentially pull the trigger again and the firearm will not fire. However, when the Trigger is release a second time, the firearm will fire. It is recommended that the operator use a "pull through, release through" technique when operating in Binary® mode.

INSTALLATION INSTRUCTIONS CONTINUED

Step 8: At a 45-deree angle, push the Long Selector paddle through the firearm until it is flush with the housing. (See Figure 7)

Step 9: Move the Long Selector Paddle to the "Safe" position. (See Figure 8)





Figure 7

Figure 8

Step 10: Insert the Short Selector Paddle on the right side of the firearm in the "Safe" position. (See Figure 9) **Note:** The shelf on the Selector Paddle should line up with the shelf in the Selector shaft.

Step 11: Using the T-10 Torx® wrench, screw the screw into the Short Selector paddle until it is flush with the housing. (See Figure 10)

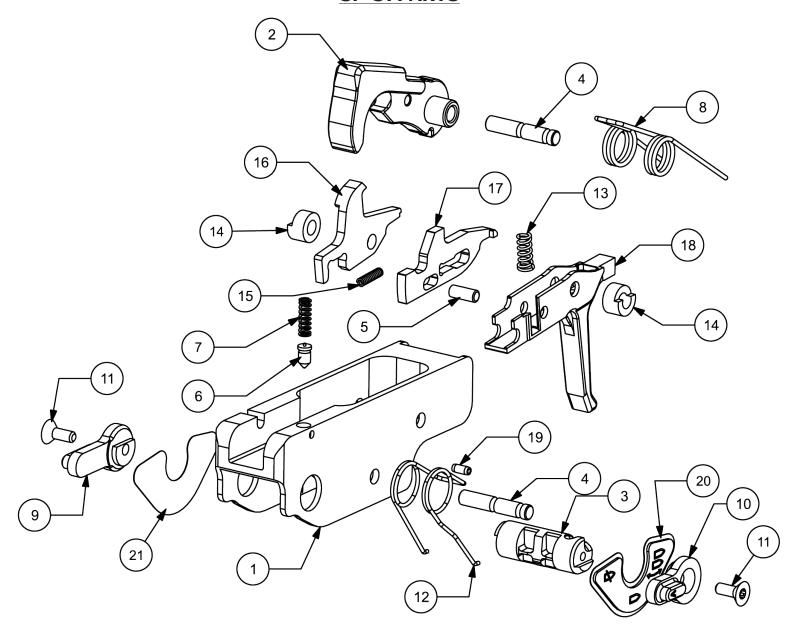
Note: Light application of removable threadlocker to the screw is recommended.





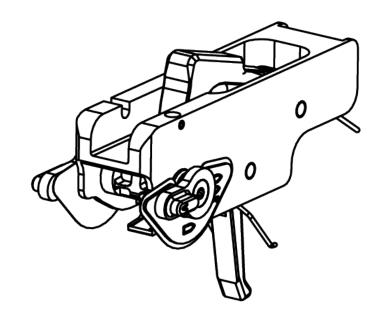
Figure 9 Figure 10

SP-S1 PARTS



Part # | Part Name | (QTY)

- 1. Housing (1)
- 2. Hammer (1)
- 3. Selector Shaft (1)
- 4. Hammer / Trigger Pin (2)
- 5. IDS Guide Rod (1)
- 6. Selector Detent (1)
- 7. Selector Detent Spring (1)
- 8. Blue Hammer Spring (1)
- 9. Long Selector Paddle (1)
- 10. Short Selector Paddle (1)
- 11. Selector Screw (2)
- 12. Mil-Spec Trigger Spring (1)
- 13. Disco Spring (1)
- 14. Trigger Spacer (2)
- 15. IDS Spring (1)
- 16. Disconnector (1)
- 17. IDS (1)
- 18. Trigger (1)
- 19. Selector Roll Pin (1)
- 20. Right Sticker (1)
- 21. Left Sticker (1)



ISOMETRIC VIEW FOR REFERENCE ONLY

IMPORTANT WARNINGS

MANUFACTURER'S WARNING: The Binary Firing System® III should only be installed by a Franklin Armory® Certified Armorer. Franklin Armory® will not be responsible for an improper installation.

MANUFACTURER'S WARNING: ALWAYS wear safety glasses when installing BFSIII® components. Small springs may inadvertently project small parts with great force.

NOTE: Franklin Armory® requires all Certified Armorers to install the red sticker on every BFSIII®. If the sticker is not applied, an unsuspecting user of the firearm could accidentally discharge the weapon causing injury or even death,

IMPORTANT NOTICES

NOTICE: Read the document included in this packaging titled "Franklin Armory® Patented Binary Firing System® Waiver and Release" **BEFORE** installing and using this product.

NOTICE: It is very important that new users seek qualified instruction before using the Binary Firing System®. A professional firearms instructor with experience operating Franklin Armory's Binary Firing System® is highly recommended. If you do not know a qualified Instructor, please contact our Customer Service department for a referral.

NOTICE: It is very important that the Binary Firing System® is installed correctly. Franklin Armory recommends that this product be installed by a Franklin Armory Certified Armorer or a certified gunsmith. Franklin Armory will not be responsible for improper installation.

NOTICE: To ensure the Binary Firing System® was installed correctly, user **MUST** perform the "Dry Fire Function Tests" (included in this manual) **BEFORE** live fire operation. If any of the checklist steps result in a failure, it is likely that something has been installed incorrectly. If re-installation does not cure the problem, contact your gunsmith or Franklin Armory's Customer Service department for assistance.

TOOLS REQUIRED

Note: Removable thread locker is recommended.

1. T-10 Torx® Wrench

2. 1/8 Punch

PARTS INCLUDED



- 1. Complete Trigger Assembly
- 2. Long Selector Paddle with Shaft
- 3. Short Selector Paddle
- 4. Selector Screw



INSTALLATION INSTRUCTIONS



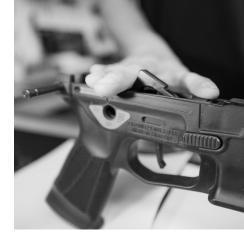


Figure 1

Figure 2

Figure 3

Figure 4

Step 6: Apply the left and right selector stickers. (See Figure 5)

Step 1: Follow the OEM instructions for unloading the firearm.

Step 3: Take out the rear take-down pin. (Figure 1) **Note:** The pin is captured and cannot be fully removed.

Step 4: Split the Upper and Lower receiver.

Step 2: Follow the OEM Instructions for removing the Stribog SP9 trigger group.

Step 5: While holding the bolt catch out of the way, take the SP-S1 trigger group and insert it until it is flush with the lower receiver. (See Figures 2, 3, 4) **Note:** Angle the SP-S1 trigger group and spring forward towards the barrel.

Note: The two bullets denoting "Binary®" should point towards the front on either side of the firearm.

Step 7: Insert the Long Selector Paddle on the left side of the firearm with the installation groove facing up. (See Figure 6)







Figure 5

Figure 6