

 **FRANKLIN®**  
**ARMORY**  
CSW™ Safety Manual



This manual covers the Franklin Armory® CSW™ modular component designed to operate in conjunction with a standard AR15 firearm. As such, this manual should be considered a supplemental document to be used in conjunction with the safety manual supplied by the original firearm manufacturer.

**Manufacturer's Warning:**

**Read this entire manual before operating the CSW™! If this module or a completed firearm using this module is improperly handled, unintended discharge could result and cause damage, injury, or death. If you do not understand any part of this manual, seek qualified professional help before loading and/or using this firearm. SAFETY IS YOUR RESPONSIBILITY!!!**



## **WARNING**

Children are attracted to and can operate firearms that can cause severe injuries or death.

Prevent child access by always keeping guns locked away and unloaded when not in use. If you keep a loaded firearm where a child obtains and improperly uses it, you may be fined or sent to prison.



## **ADVERTENCIA**

A los niños los atraen las armas de fuego y las pueden hacer funcionar. Ellos pueden causarse lesiones graves y la muerte.

Evite que los niños tengan acceso a las armas de fuego guardándolas siempre con llave y descargadas cuando no las esté utilizando. Si usted tiene un arma de fuego cargada en un lugar en que un niño tiene acceso a ella y la usa indebidamente, le pueden dar una multa o enviarlo a la cárcel.

### **BASIC RULES FIREARM SAFETY**

1. Always handle your firearm as if it was loaded.
2. Always keep the muzzle pointed in a safe direction. Never point your firearm at anything you do not intend to destroy.
3. Learn the mechanical and handling characteristics of the firearm you are using.
4. Be sure that the barrel is clear of any obstructions before shooting. Even excess oil or a spider web can cause a problem. Never fire with water in the barrel.
5. Always make sure everyone in the vicinity is wearing eye and ear protection suitable for firearm use prior to shooting.
6. Never use alcohol or drugs when shooting. If you are using prescription medication, contact your doctor to determine your fitness prior to using the firearm.
7. Keep away from the ejection port when firing as hot shell cases will be ejected with significant force
8. Never place your fingers in the ejection port. The carrier may slide forward under spring pressure and injure you.
9. Never climb a tree or fence with a loaded firearm.
10. Do not store, carry, drop, drive a vehicle, bicycle, walk or run with a live round in the chamber. A gun that is dropped, bumped, or jarred with a live round in the chamber might accidentally discharge, even with the safety on, causing injury to you or someone else.
11. Never pull the trigger or place your finger inside the trigger guard until you have sighted your target and are ready to shoot.
12. Be sure of your target and what is beyond it before you shoot.
13. Never shoot over a ridge, or skyline as a bullet may travel 3 miles or more.
14. Make sure that your backstop is sufficient to prevent the bullet from over-penetrating.
15. Do not shoot at a hard surface or water; it may ricochet in an unsafe direction.
16. Never rely on your firearm's safety mechanism to justify careless handling.
17. Always keep your selector set to "safe" prior to target acquisition when the firearm is loaded.
18. Never discharge the weapon near flammable material. Muzzle flash may ignite a fire or cause gasses or liquids to explode.
19. Never force a jammed action as the jammed round may explode. Use of the forward assist should take minimal pressure. It is likely that the firearm is in need of inspection and cleaning before additional use.

20. If your firearm failed to fire after the trigger was pulled, wait at least 1 minute before clearing. Continue to keep the firearm pointed in a safe direction. Water, oil, or other contaminants in the ammunition can cause a delayed fire.
21. If you notice a difference in sound or recoil while firing, stop immediately and clear the firearm. A “squib” or sub-standard round may have fired and the bullet may be stuck in the bore. If another shot is fired with the bore obstructed, the barrel may bulge or burst, causing injury or even death to yourself and/or others in the vicinity.
22. Sustained fire will heat up the barrel and receiver to the point that it may cause burns when touched. Never shoot your firearm to the point that it is too hot to touch as it may, in rare occasions, also create an accidental discharge by “cooking off” ammunition in a hot chamber even though the trigger was never pulled. In addition, excessive rapid fire may cause premature wear of the barrel.
23. This firearm may discharge accidentally if it is dropped or struck with sufficient force while a live cartridge is in the chamber.
24. Do not shoot your firearm around animals unless they are trained accordingly. They may react to the sound of the discharge and cause an accident.
25. Always unload the magazine and chamber, lock the bolt back, and physically & visually check the weapon is totally clear of ammunition prior to handing someone an unloaded firearm.
26. Always check that the status of the firearm when someone hands you an “unloaded” gun.
27. Firearms should be unloaded when not in use and secured from unauthorized access or use. Never leave a firearm unsecured where children or prohibited persons may gain access to it.
28. Be sure your firearm is unloaded before cleaning, transporting, or storing it.
29. Do not alter or modify any components of your firearm, and be sure to have it cleaned and serviced regularly. (Altering or modifying your firearm will void any warranty claim.)
30. Use of substandard ammunition will void the warranty and may damage your firearm. Only use quality, clean burning, commercial ammunition designed and specified for your firearm that meets Sporting Arms and Ammunition Manufacturers’ Institute (SAAMI) specifications. Poor quality ammunition that generates excessive fouling may cause your HSC-15 to malfunction and necessitate additional cleaning.
31. Always store your firearm and ammunition in separate locked vaults where children will not have access.
32. If you teach your children to shoot, teach them to respect firearms and use them properly. Supervise them closely.
33. Never abuse your firearm by using it for some purpose other than what it was designed to do.
34. Never dry fire when the upper receiver is not in place. This action may crack the lower receiver.
35. Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may cause birth defects, reproductive harm, cancer, and other serious physical injury. Have adequate ventilation at all times. Wash hands thoroughly after exposure.

36. Be sure the Cam Pin is installed in the Bolt Group. The firearm can fire and may explode if it is not installed. Any claim of warranty will be void in the event that the firearm is fired without the Cam Pin properly installed.

37. If you do not understand any comments noted above, seek help from your licensed retailer or professional training prior to use.

**Manufacturer's Warning:**

Please be sure to contact your local licensed firearms retailer, state department of justice, attorney general, local police or sheriff's office, and/or a licensed attorney to ascertain if there have been any additional changes in laws pertaining to ownership of firearms within your locality. Firearms laws change so rapidly and in so many places that it is impractical for the manufacturer to provide notification to the firearms owner or user of every legal nuance in every locality. It is the user's responsibility to know all laws in their jurisdiction prior to purchasing or using this firearm.

**Manufacturer's Notice:**

Franklin Armory® will not be responsible for damage, injury, or death resulting from intentional or accidental discharge of this product due to improper handling, maintenance, alterations, or for any other reason.

**Manufacturer's Notice:**

The CSW™ was inspected and quality checked multiple times prior to leaving the factory, however we cannot guarantee that it has not been damaged or tampered with after it has left our facility. Therefore, it is important that the purchaser of this product inspect it carefully prior to using it. If anything appears deficient, do not fire the CSW™ and contact your licensed retailer immediately.

**Manufacturer's Notice:**

This manual should always accompany the CSW™. If the product is transferred or lent to someone else, be sure that the person is legally allowed to receive the CSW™ and make sure the person reads the manual prior to using it. Additional manuals are available and can be downloaded online at: [www.franklinarmory.com](http://www.franklinarmory.com)

**Manufacturer's Warning:**

Any unusual force applied to the CSW™ through a use that is inconsistent with the intended design parameters of this firearm can possibly cause premature failure.

**Manufacturer's Warning:**

The CSW™ is designed to use the external safety device found on the AR15. Never use a CSW™ with an AR15 firearm that does not have an operable safety. See the original manufacturer's safety manual for further instruction. However, if the safety is ever found to be defective for any reason, immediately unload the firearm. DANGER of an unintentional discharge exists if the firearm remains loaded with an inoperable safety. If the safety is defective, do not use the firearm again (or allow anyone else to have access to it) until a qualified gunsmith can properly repair the deficiency.

**Lead Exposure Warning:**

Ammunition used in firearms often contain lead. The use of this ammunition may expose you to lead. Lead or lead compounds are known to the State of California to cause cancer, birth defects, reproductive toxicity, and other serious physical injury. Those who clean firearms should take protective measures to avoid contact or exposure to such chemicals.

**Warranty Notice:**

Due to the Magnuson-Moss Warranty Act, Franklin Armory® does not *expressly* warrant this product. However, Franklin Armory® will provide service for defects in materials or workmanship at no charge to the purchaser for a period of one year from the date of initial retail sale of this firearm. Be sure to retain your sales receipt in order to demonstrate the proof of purchase date.

Call the factory for shipping instructions at 408-779-7560 prior to shipping the CSW™ for service. Always be sure to include a brief description of the problem, copy of the sales receipt, name, address, and phone number.

The shipping address is:

Franklin Armory®  
2241-D Park Place  
Minden, NV 89423

**Shipping Notice:**

It is illegal to ship a firearm with ammunition in the same packaging. It is also illegal to ship a firearm with serial numbers that have been obliterated.

**Exclusions From Warranty:**

1. If the CSW™ has been disassembled further than what is necessary for basic “Field Strip” maintenance, and if damage has occurred as a result of improper disassembly, reassembly, or use, then the purchaser shall forfeit any claim. Further, the CSW™ owner must accept full responsibility for the correct reassembly and functioning of all parts, including replaced parts.
2. This CSW™ is intended to be used with expertly loaded ammunition adhering to specifications set by the Sporting Arms and Ammunition Manufacturers’ Institute. (SAAMI) Franklin Armory® can, at it’s sole discretion, void any obligation to service the CSW™ or any claim if any non-SAAMI specified ammunition is employed.
3. The following activities are not allowed:
  - (a) Never apply excessive heat to the CSW™ or any component parts to the point that it may affect the hardening surface treatments.
  - (b) Never apply and leave corrosive or abrasive agents on any surfaces.
  - (c) Never use corrosive ammunition.

- (d) Never disable the safety.
4. Any damages associated with the possession and/or use of any Franklin Armory® product are limited to, and may not exceed, an amount equivalent to the Manufacturer's Suggested Retail Price (MSRP) of the product. Any consumer that intends to purchase a Franklin Armory® product hereby agrees to this limitation as a precondition of the sale.
  5. In no way shall Franklin Armory® be responsible for incidental or consequential damages related to economic loss, injury, death, or property damage, even if such damages are as a result of a breach of this warranty, negligence or otherwise.

**Manufacturer's Notice:** Most assault weapons bans specifically regulate rifles, pistols, and shotguns. Since the CSW™ does not have a stock, it is not a "rifle." Since it does not have a pistol grip, it is not a "pistol," and obviously it does not fire shot, so it is not a "shotgun." Federally, the CSW™ is an "Other," or stated differently, simply a "Title I firearm."

State laws will vary, and each state may define the CSW™ differently. It is imperative that buyers check with local law enforcement, their state attorney general, and any other regulatory body prior to assembling any CSW™ kit in to a firearm.

**Manufacturer's WARNING:** The CSW™ should only be installed by a competent gunsmith. In as much as this device effects the safe operation of the firearm, it is critical that it be installed correctly.

**Tools Needed:**

- 3/16" Allen Wrench
- 5/32" Allen Wrench
- 9/64" Allen Wrench
- 7/64" Allen Wrench

**Part Nomenclature:**





**HOW TO DISMANTLE YOUR CSW™:**

**Step 1: Ensure that the firearm is unloaded.**

See the original manufacturer’s safety manual for specific instruction on how to achieve this objective. Franklin Armory® safety manuals can be found online at: <http://www.franklinarmory.com/SAFETY.html>

These manuals can also be downloaded as a PDF file.

**Step 2: Remove the Upper Receiver.**

Again, follow the manufacturer’s recommendation on how to achieve this objective.



**Step 3: Dismantle the CSW.**

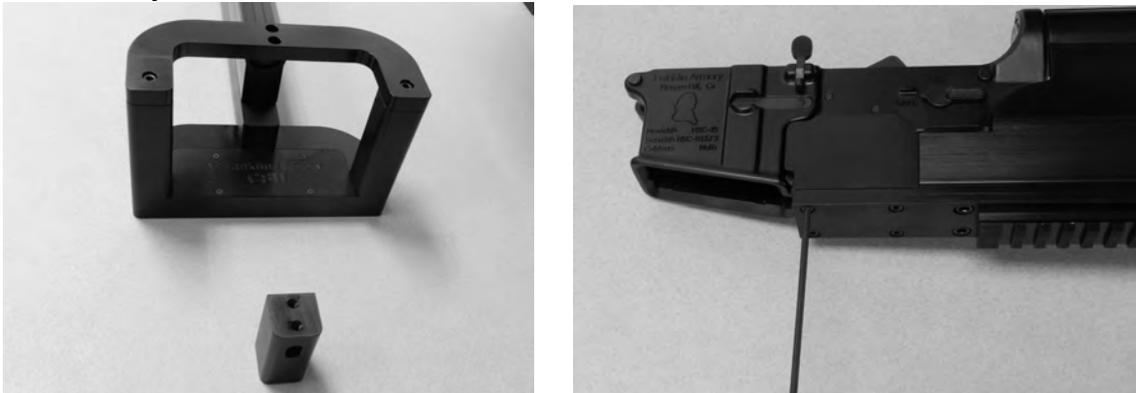
The CSW™ kit is shipped assembled to prevent damage during shipping.

A. Unscrew the two  $\frac{1}{4}$ -20- $\frac{1}{2}$ " screws that attach the Top Plate of the Spade Grip Assembly to the Column Block with a  $\frac{3}{16}$ " Allen Wrench



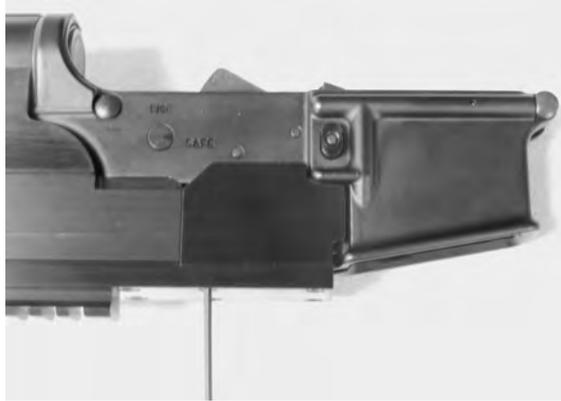
B. If your CSW™ is attached to a firearm, unscrew the singular  $\frac{1}{4}$ -28-1" screw that attaches the Column Block to the Receiver Extension with a  $\frac{3}{16}$ " Allen Wrench.

C. Carefully slide the Column Block out, and set it aside.



D. Unscrew the two 6-32- $\frac{1}{2}$ " screws holding the Left Side Plate with a  $\frac{7}{64}$ " Allen Wrench, and set the screws and Side Plate aside.

E. Unscrew the two 6-32- $\frac{1}{2}$ " screws holding the Right Side Plate with a  $\frac{7}{64}$ " Allen Wrench, and set the screws and Side Plate aside.



**Note:** that the Left and Right Side Plate are not universal. Take note of their position to make reinstallation easier.

**F.** With a 5/32" Allen Wrench, unscrew the six 10-32-1/2" screws holding the Base Plate to the Lower Receiver Extension.



- 1.** Take note that there are two Index Pins between the Lower Receiver Extension and the Base Plate. Set the Index Pins aside with the Base Plate.
- 2.** You may use a mallet to lightly tap the Base Plate free.



**G.** Unscrew the four 6-32-1" bolts holding the Lower Receiver Extension to the Left and Right Clam Shells, and set the Clam Shells aside.

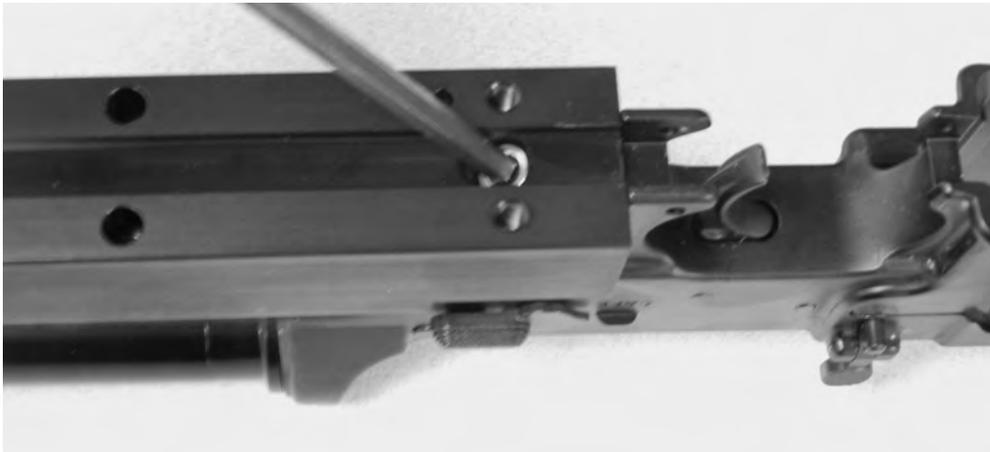


H. Unscrew the two  $\frac{1}{4}$ -20-1" screws holding the Bottom Plate of the Spade Grip Assembly to the Lower Receiver Extension with a  $\frac{3}{16}$ " Allen Wrench.

1. The entire Spade Grip Assembly and Operation Rod may now be set aside.



I. Unscrew the  $\frac{1}{4}$ -28-1" Grip Screw from the Lower Receiver Extension and AR15 Receiver.



J. If you need to view the serial number on your CSW™, remove the four 4-40 screws holding the Name Plate on the Spade Grip Assembly. The serial number will be found on the back side of the Name Plate.

K. Do not disassemble the CSW™ any further.

## **HOW TO INSTALL YOUR CSW™:**

### **Installation Step 1: Installing the Lower Receiver Extension**

Note: While not mandatory, it is recommended that every screw be set in place with a small amount of BLUE loctite. This will prevent screws from falling out under repeated recoil.

A. Hold the Lower Receiver upside down.



B. Ensure that the Safety Selector is in position.

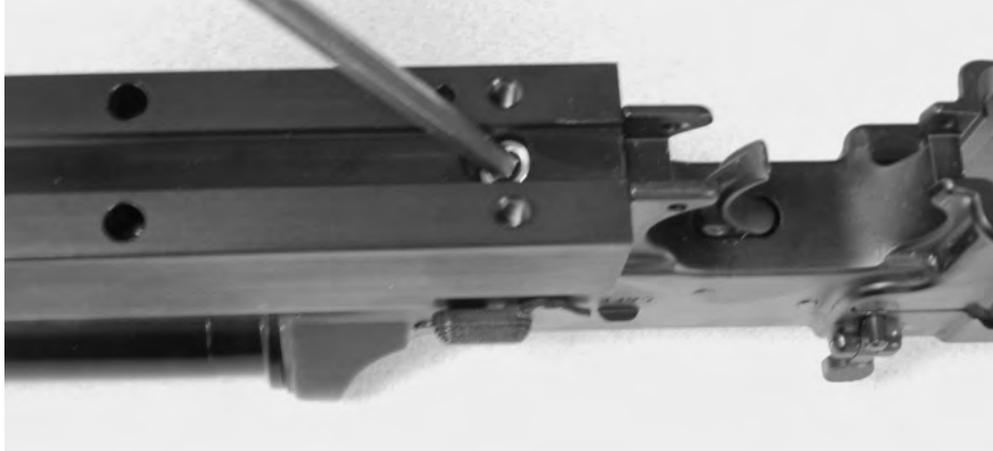
C. Drop the Safety Selector Detent in to the appropriate hole in the Lower Receiver.

D. Carefully place the Safety Selector Detent Spring in to the appropriate hole in the Lower Receiver Extension and slide the Lower Receiver Extension on to the Lower Receiver.



1. Be careful not to lose the Safety Selector Detent during this process.
2. Be careful not to pinch or distort the Safety Selector Detent Spring during this process.

E. With the 3/16" Allen Wrench, attach the Lower Receiver Extension to the Lower Receiver with the 1/4-20-1" Grip Screw.



- F. Confirm that the Safety Selector is functioning properly.
- G. Firearms equipped with Franklin Armory® Trigger Adjustment Screws™ must be adjusted at this time. (This is not part of the CSW™ kit.)
- H. Torque the Grip Screw to 50 inch pounds.

**Installation Step 2: Installing the Spade Grip Assembly and Operation Rod.**

A. Position the Spade Grip Assembly so that the two Index Pins that are pressed into the (Spade Grip Assembly) will align with the two corresponding holes on the back of the Lower Receiver Extension.

- 1. This will also align the holes for the two ¼-20-1" screws that will be installed shortly.

B. Position the Operation Rod in the trough located on the Lower Receiver Extension.

C. Loosely screw in two screws through the bottom of the Lower Plate of the Spade Grip Assembly and into the rear of the Lower Receiver Extension with a 3/16" Allen Wrench.

- 1. Do not firmly torque these two screws until later.



D. Install the Trigger Catch on the end of the Operation Rod where it engages the original AR15 Trigger. It requires a 5/32" Allen Wrench for the 8-32-½" screw. Do not tighten until the Trigger Catch is adjusted. [See Photo on Following Page.]



1. Cock the AR15 Hammer and engage the AR15 Safety.
  2. The Trigger Catch backlash should be adjusted so that the AR15 Trigger can fully set with the AR-15 Hammer cocked.
  3. Do not try to minimize backlash by adjusting the Trigger Catch too tightly. This will cause your CSW™ to malfunction by catching on the AR15 Disconnecter.
- E. When you are satisfied with the Trigger Catch position, tighten the Trigger Catch screw to 30 inch pounds.

### **Installation Step 3: Installing the Clam Shells.**

- A. The Clam Shells should be tightly screwed to each other.
- B. Install the AR15 Takedown Pin into the AR15 Lower Receiver.
- C. Position the AR15 Takedown Pin Detent into the AR15 receiver per the manufacturer's directions.
- D. Slide in the Takedown Pin Detent Spring in per the manufacturer's directions.



- E. Slide the Clam Shells over the Receiver Extension and compress the takedown Pin Detent Spring.



**F. Hold the Clam Shells in position while screwing the Lower Receiver Extension to the Clam Shells. Install four 6-32-1" screws with the 7/64" Allen Wrench.**

- 1. Be sure that the Takedown Pin Detent did not fall out during this process.**
- 2. Be sure that the Takedown Pin Detent Spring did not fall out or get pinched or distorted during this process.**
- 3. Pull the Takedown Pin out to the right and ensure that it is still captured.**

**G. Torque the screws to 30 inch pounds.**

**Installation Step 4: Installing the Base Plate.**

**A. With the entire assembly upside down, place the two Indexing Pins into the Lower Receiver Extension.**

**B. Place the Base Plate over the Lower Receiver Extension and Operation Rod.**



**C. Loosely screw in the six 10-32-1/2" screws that hold the Base Plate to the Lower Receiver Extension.**

- 1. Do not fully tighten these screws until later.**

**Installation Step 5: Installing the Side Plates.**

**A. Position the Left Side Plate over the left trigger guard area.**

**B. Use the 7/64" Allen Wrench and two 6-32- 1/2" screws to install the Left Side Plate.**



- C. Torque these screws to 30 inch pounds.
- D. Repeat steps 5A through 5C for the Right Side Plate.

**Installation Step 6: Installing the Column Block.**

- A. Slip the Column Block under the Top Plate of the Spade Grip Assembly and above the Lower Receiver Extension.
- B. Loosely screw in the one  $\frac{1}{4}$ -28-1" screw through the Column Block and into the Receiver Extension.
- C. Loosely screw in two  $\frac{1}{4}$ -20- $\frac{1}{2}$ " screw through the Top Plate of the Spade Grip Assembly and into the Column Block.

**Installation Step 7: Final Torque and Function Testing.**

- A. Reattach the *unloaded* Upper Receiver per the manufacturer's directions.
- B. Cock the hammer and dryfire the Triggers on the Spade Grip Assembly while torqueing each bolt to the appropriate spec.
  - 1. Torque all  $\frac{1}{4}$ -20 screws to 50 inch pounds.
  - 2. Torque all 6-32- $\frac{1}{2}$ " and 10-32- $\frac{1}{2}$ " screws to 30 inch pounds.
  - 3. Test both triggers while tightening each screw. If the assembly is not completely straight, the Operation Rod may bind and reduce the ease of function of the trigger linkages.
- C. Ensure that the AR15 Disconnecter is working properly.

FOR ANY SUGGESTIONS OR CORRECTIONS TO THIS MANUAL, PLEASE CONTACT FRANKLIN ARMORY® AT: [info@franklinarmory.com](mailto:info@franklinarmory.com) YOU MAY ALSO SEND SUGGESTIONS VIA REGULAR MAIL AT:

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2241-D Park Place  
Minden, NV 89423