

The Echo Trigger is designed with safety being of utmost priority. When the operator is in the Echo Mode and depresses the trigger one round is fired. TO NEGATE THE SECOND ROUND, ONE MUST POSITION THE ECHO SELECTOR LEVER FROM ECHO TO SEMI WHILE MAINTAINING REARWARD PRESSURE ON THE TRIGGER.

ECH

3 MODES OF OPERATION

SAFE MODE: FIREARM WILL NOT FIRE SEMI-AUTOMATIC MODE: FIREARM FIRES WHEN TRIGGER IS PULLED ECHO MODE: FIREARM FIRES WHEN TRIGGER IS PULLED AND ALSO WHEN TRIGGER IS RELEASED.



THE USA

ATF APPROVED - PATENT PENDING TRIGGER LO Patented Secondary Disconnect (U.S. Patent 8,820,211 & U.S. 8,667,881) Ambidextrous Safety Selector

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By breaking the seal and opening this package you agree that you will take responsibility for your own actions both intentional and unintentional. You agree to hold FosTecH Inc and any of its distributors harmless in any consequences resulting from the installation and or use of any FosTecH products. You also agree to the terms on the Warning Statement contained within this package.

Thank you for your purchase of the Echo Trigger. This product should be used only after reading and understanding these warnings and the instructions accompanying this product. Installation of this product in a firearm will enable the firearm to fire on the pull of the trigger and on the release of the trigger when in Echo Mode and on the pull of the trigger in semi-automatic mode and could result in injury or death to the user or another person. Upon installation of any Echo Trigger, you (defined as the purchaser, possessor or user) are agreeing with this warning, the liability statement below, and the use instructions set forth herein or online.

WARNING STATEMENT

Firearms are the inherently dangerous. Complete safety is essential in possessing, handling, and operating any firearm on which this product is installed. By purchasing, possessing or using this product, you confirm your understanding and agreement to follow all applicable local, state, and federal laws and regulations, and take full responsibility for your own actions, both intentional and unintentional. Never use this product while under the influence of alcohol or drugs (prescription or non-prescription). It is your responsibility to assure that the firearm on which this product is installed is safely handled, fired, and stored at all times. Always make sure muzzle is pointed in a safe direction before manipulating the controls on the firearm.

You acknowledge that you are solely accountable for your own actions relating to the handling, firing, and storing of the firearm and this product. FosTecH specifically disclaims all responsibility for any death, injury, or damage that may occur because of, or as a result of modification and/or the use or attempted use, of any FosTecH product in conjunction with any firearm.

Children are attracted to and can operate firearms that can cause severe injuries or death. Prevent child access by always keeping guns locked and 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 in certain states.

FosTecH will not repair any damage to product due to your modification, attempted modification, use or attempted use of the product in conjunction with any firearm other than the specific model and caliber for which the product is specifically intended. FosTecH products are carefully engineered with your safety in mind – any actual or attempted modifications could result in a fatal accident. FosTecH expressly disclaims any implied warranties, including the implied warranties of merchantability and/or fitness for use. Under no circumstances will FosTecH, or any of its parents, affiliates or vendors (or any officers, directors, employees or agents of the parties, or its parents, affiliates or vendors) be liable for any indirect, incidental, consequential, special or exemplary damages (however or whenever arising), including, without limitation, death, damages for lost revenue, lost profits, anticipated profits, lost business or personal injury.

By purchasing, handling, possessing, and or operating, this product, you agree that you have read and understand all included warnings and instructions, and expressly and unequivocally agree to these terms and conditions of use for this FosTecH product.

Thank you for your purchase of the Echo Sport

WARNING:

III <u>The Echo Sport utilizes a slave pin to hold it together when not installed.</u> <u>Be sure to reinstall slave pin BEFORE removing trigger</u> Reassembly instructions are provided on page 9 if the slave pin is not reinstalled correctly. Video instructions are also available at www.echoquestions.com

Reassembly services also available through our Echo Department - 812-445-4028

Video Assisted Installation: Full installation video and other FAQ videos available on our YouTube Channel. <u>www.echoquestions.com</u>



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Parts Diagram

Α. Echo Assembly Β. Trigger Lock Spring Bracket C. Trigger Body Return Spring Anti-Hammer Follow Disconnector D. E. Slave Pin (installed when received) F. Trigger Lock G. Anti-Hammer Follow R Т **Disconnector Post** Η. **Trigger Lock Spring** 0. Н. Selector Cam Assembly/Selector Ι. Lever J. Detent Cap К. 3/32" Allen Wrench Ambidextrous Selector Lever Screw L. Left Side Μ. Ambidextrous Selector Lever N. Hammer Spring О. Hammer Ρ. Echo Selector Lever Q. Echo Selector Lever Cam M. Ū. P R. 5/64" Allen Wrench S. Echo Selector Lever Bolt The Echo Sport Does Not Include: Τ. .05 Allen Wrench U. Echo Selector Lever Set Screw ٧. Safety Detent W. Safety Detent Spring 1 9/16 Inches Х. **Trigger/Hammer Pins** V. w Υ. Full Auto Bolt Carrier Ζ. Detent Slot

(Use this page as a reference for parts described throughout the instruction manual.)

Directional Nomenclature

In conventional terminology regarding a firearm in the horizontal position, the stock is in the "rear" or "rearward"; the muzzle is in the "front" or "forward"; the rail for optics is "upward" or on "top"; the trigger is "downward" or on the "bottom". On a milspec lower receiver, the "Left" side is where Bolt Catch Lever is located, and the "Right" side is where the Magazine Release Button is located.

Requirements:

Mil-spec AR15 Lower Receiver

- Ensure the Lower Receiver does not have a Sear Block or other о Non- Mil-spec attributes
- Matching Buffer Assembly (Carbine-length and Rifle-length will both work, but must not be mismatched)
- Ensure the Buffer is not solid, sand, or captured spring Full Auto Bolt Carrier (Y)

Recommendations:

H Buffer (ensure that when the Buffer is shaken, it rattles)

Occasionally a heavier Buffer may be required depending on the firearm. о

Tools Needed:

- 3/32, 5/64, and .05 Allen Wrench (Provided) 3/32 (or similar size) Punch
- Grease (any general-purpose grease) Tack Hammer (Small Hammer)
- How the Echo Sport Works:
 - Safe Mode (Selector Lever (I) to "Safe") (See fig. 1): Firearm will not fire
 - Semi-Automatic Mode (Selector Lever (I) to "Fire" (See fig. 2) and Echo Selector Lever (P) to "Semi") (See fig. 3): Firearm will fire once o the pull of the Trigger and will reset on the release, ready to fire on the next pull. Echo Mode (Selector Lever (I) to "Fire" (See fig.
 - 4) and Echo Selector Lever (P) to "Echo") (See fig. 5): Firearm will fire once on the pull of the Trigger and will reset when the Trigger is

pulled rearward to reset activation. It will fire again on the release of the Trigger and will reset when released to reset activation. It is then ready to reneat the described

(If Trigger is not pulled rearward to reset activation, it will not fire on ease and will need to be pulled to reset activation and released again before it will fire.)

TO NEGATE THE SECOND ROUND IN "ECHO" MODE, ONE MUST MAINTAIN REARWARD NEGATE THE SECOND NOUND IN ECHO WIDE, YOUR MUST INWINTAIN REAVEWANT ESSURE ON THE TRIGGER, AND POSITION THE CHO SELECTOR LEVER (P) TO "SEMI" NE MAY THEN RELEASE THE TRIGGER (NO ROUND WILL BE FIRED), AND OPERATE IN "SEMI", OR POSITION THE SELECTOR LEVER (I) TO "SAFE".

NING! IF ONE POSITIONS THE ECHO SELECTOR LEVER (P) TO "ECHO" AFTER FIRING A ROUND IN "SEMI", A ROUND WILL FIRE ON THE RELEASE OF THE TRIGGER!

AS WITH ANY OTHER SEMI-AUTOMATIC FIREARM, IF ONE IS NOT SHOULDERING AND GRIPPING THE FIREARM SECURELY, THERE IS A RISK OF BUMP-FIRING.

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6. Installation of the Hammer

- Ensure Hammer Spring (N) is oriented correctly (refer to Parts Diagram).
- Lay the extensions of the Hammer Spring (N) over the Trigger Pin (X). Ensure the right leg of the Hammer Spring (N) engages the Detent Slot (Z) of the Trigger Pin (X). Depending on the tolerances in the Lower Receiver, the left extension may rest directly on the Trigger Pin (X), or it may rest on top of the Trigger Body Return Spring (C). (See fig. 18)
- Push the Hammer (O) downwards, against the spring tension, until it aligns with the Holes in the Lower Receiver for the Hammer Pin (X), (See fig. 19)
- Push the Hammer Pin (X) through the Hammer Pin Hole as far as it will go by hand, to keep the Hammer (O) in place. (See fig. 20)



7. Reinstalation of the Safety Detent (V), Safety Detent Spring (W), and Grip (not included) to finish installation.

Ensure that the Safety Detent (V) is in place, and that the Safety Detent Spring (W) is applying pressure to it. Sometimes in reinstallation, the Safety Detent Spring (W) can become compressed on the side of the Lower Receiver, and not apply pressure to the Detent (V) (See fig. 21)





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Installation of the Echo Sport

Prepare the Lower Receiver for Installation of the Echo Sport:

- Remove Trigger Guard (if present), Pistol Grip, Safety Detent (V), and Safety Detent Spring (W)
- Set these parts aside for reinstallation later

Installation of the Trigger Assembly

- The Echo Assembly (A) comes with the Trigger Lock Spring Bracket (B) and the Trigger Body Return Spring (C) preassembled. Ensure the Trigger Lock Spring Bracket (B) rests above the Anti-Hammer Follow disconnector (D) and not behind it (See fig. 6)
- Insert Echo Assembly (A) into Lower Receiver (Lower Receiver should be positioned left side up if on a flat surface). (See fig. 7) Gently push down on the Echo Assembly (A) until the Slave Pin (E) is lined
- up with the Trigger Pin Hole on the Lower Receiver.
- Using a small hammer, gently tap the Trigger Pin (X) into the Trigger P Hole until it begins to engage the Echo Assembly (A). (The Detent Slot (Z) must end up on the right side of the Lower Receiver for the Hammer Spring (N) to properly engage it.) Lifting the Lower Receiver slightly off the table, strike the Trigger Pin (X) quickly enough to follow the Slave Pin (E) through and catch all the internal components. Carefully strike it with enough force to make it flush with the Lower Receiver. Be careful not to damage the Lower Receiver. It may help to apply gentle "back-pressure on the Slave Pin (E), until it is completely out of the Lower Receiver. (See

Note: Make sure to keep the Slave Pin (E) for future install/assembly needs.



stallati on of the Trigger Lock

- Push the Trigger Lock Spring Bracket (B) all the way forward, and let it rest . toward the front of the Lower Receive
- With the Trigger Lock (F) facing forward (Trigger Lock Spring Pocket forward) and the bottom of the Trigger Lock (F) pointing down at a 45-degree angle (following the angle of the pistol grip), Insert the Trigger Lock (F) in front of the Anti-Hammer Follow Disconnector Post (G). The Trigger ock (F) will go in until it rests on top of the Anti-Ham Disconnector (D). (See fig. 9)
- Push the Trigger Lock (F) back all the way. This will push the Anti-Hammer Follow Disconnector (D) back as well. (See fig. 10)

4

Function Check

(Prior to Installation of Upper Assembly)

In order to simulate the Bolt Carrier (Y) in the Upper Assembly, one ust always push the Trigger Lock (F) forward when testing the Trigg to see if the Hammer (O) will drop. Also ensure the Hamm guarded to protect the Lower Receiver. (See fig. 22) er (O) i:



1) Test "Safe" Mode:

- Position the Selector Lever (I) to "Safe", push the Trigger Lock (F) forward, and pull the Trigger. This should result in no hammer drop. 2) Test Semi-Automatic or "Fire" Mode:
 - Position the Selector Lever (I) to "Fire" and the Echo Selector Lever (P) to "Semi" (See fig. 23). Push the Trigger Lock (F) forward, and pull the Trigger (keep the Trigger pulled for the next test). This should result in a hammer drop. 1
 - As the Trigger is still being pulled, reset the Hammer (O), push the Trigger Lock (F) forward, and slowly release the Trigger. This should result in no hammer

drop. 3) Test "Echo" Mode:

- Position the Selector Lever (I) to "Fire" and the Echo Selector Lever (P) to "Echo" (See fig. 24). Push the Trigger Lock (F) forward, and pull the Trigger (keep the Trigger pulled for the next test). This should result in a harmmer drop. It is important that the Trigger is pulled rearward to reset activation for the Trigger to fire on the release.
- Reset the Hammer (O), push the Trigger Lock (F) forward, and release the Trigger. This should result in a hammer drop. Note: (If Trigger is not pulled rearward to reset activation, it will not fire on release and will need to be pulled to reset activation and released again before

it will fire.) 4) Test Negating the Second Round in Echo Mode:

- Position the Selector Lever (I) to "Fire" and the Echo Selector Lever (P) to "Echo" (See fig. 24). Push the Trigger Lock (F) forward, and pull the Trigger (keep the Trigger pulled for the next test). This should result in a hammer drop
- Reset the Hammer (O), and push the Trigger Lock (F) forward. With constant pressure being maintained on the Trigger, position the Echo Selector Lever (P)
 - to "Semi". The Trigger may now be released, and this should result in no hammer drop. The Selector Lever (P) may now remain positioned to "Fire" turn to "Safe", and the Trigger will operate accordingly.

THE ECHO SELECTOR LEVER (P) MUST FULLY ENGAGE THE DETENT FOR "SEMI"(See fig. 22 FOR THE ROUND TO BE NEGATED. WITHOUT FULL ENGAGEMENT, THE HAMMER (O) WILL DROP ON THE RELEASE. (IF IN LIVE FIRE, A ROUND WILL BE IGNITED.) HER WORDS, IF ONE DOES NOT SEE "SEMI" ON ONE'S ECHO SELECTOR LEVER (P), (See fig. 23) A ROUND WILL FIRE ON THE RELEASE OF THE TRIGGER

See the video for the function check on our YouTube Channel - www.echoquestions.com

With the Trigger Lock (F) pulled back, pivot the Trigger Lock Spring Bracket (B) back to its reward position, and place the Trigger Lock Spring (H) in the Pockets of each. (See fig. 11)



4. Installation of the Safety Selector

- Keep pressure (pushing toward the rear) on the top of the Trigger Lock Spring Bracket (B) to keep the Trigger Lock Spring (H) in place. While pushing down on the Trigger Lock Spring Bracket (B), pull the
- Trigger Lock (F) forward slightly. This will line up the holes so that the Selector Cam Assembly (I) can be installed, pointing to the "SAFE" position. (See fig. 12) This may require some manipulation of the Trigger Lock (F), Trigger Lock Spring Bracket (B), and Selector Lever (I).
- Grease the Detents of the Detent Cap (J) and insert the Detent Cap (J) onto the Selector Cam Assembly (I), (See fig. 13)
- With a 3/32 Allen Wrench (K), use the Ambidextrous Selector Lever Screw (L) to attach the Ambidextrous Selector Lever (M) and tighten. (Ensure the Selector Lever (I) and Ambidextrous Selector Lever (M) are aligned appropriately.) (See fig. 14)



5. Installation of the Echo Selector Leve

- Viewing the Lower Receiver from the bottom, place the Echo Selector Lever (P) on the Echo Selector Lever Cam (Q). Line up the flats to seat the Echo Selector Lever (P) properly on the Echo Selector Lever Cam (Q). ee fig. 15a & 15b)
- Using the 5/64 Allen Wrench (R) provided, screw in the Echo Selector Lever Bolt (S). (See fig. 16)
- Using the .05 Allen Wrench (T) provided, screw in the Echo Selector Lever Set Screw (U). (See fig. 17)



Attach Upper Assembly to Lower Receiver with the Echo Sport Installed:

- tion the Selector lever (I) to "Fire" and the Echo Selector Lever (P) to "Semi". Push the Trigger Lock (F) forward, and pull the Trigger firmly. This will allow the Hammer (O) to fall. (Keep the Hammer (O) in the "dropped" position)
- "dropped" position) Continue to hold the Trigger firmly in the pulled position, (this will keep the Trigger Lock (F) forward) and close the Upper Assembly onto the Lower Receiver. (See fi The Takedown Pin may now be inserted. er. (See fig. 25) 3.

Uninstallation of the Echo Sport

- Remove the Upper Assembly.
- Remove the Set Screw (U) and Bolt (S) from the Echo Selector Lever (P) and remove the 2. Echo Selector Lever (P). (See fig. 26)
- 3. With the Hammer (O) in the dropped position, remove the Hammer Pin (X) and pull the Hammer (O) out. Be careful to hold on to the Hammer (O), as it is under spring tension. Remove the Ambidextrous Selector Lever Screw (L) and the Ambidextrous Selector Lever 4.
- Remove the Ambiddentious Selector Lever Screw (L) and the Ambiddentious Selector as (M), (See fig. 27). Constant of the Selector Lever (I) to "Safe" and remove. This might require gently pushin out with a 3/32 Punch from the right side while manipulating the Trigger Lock (F) and the Selector Lever (I) to "Safe" (I) to the selector Lever (I) to the Selector Lever (I) to "Safe" (I) to the Selector Lever (I) to "Safe" 5.
- Trigger Lock Spring Bracket (B) (See fig. 28) Remove the Trigger Lock (F) and Trigger Lock Spring (H) (See fig. 29)
- 7. Position the Lower Receiver left side up. (See fig. 30) This is the preferred way, so that unnecessary pressure is not placed on the Bolt Catch. It also affords the BEST chance of keeping the Trigger together with the Slave Pin (E) (accounting for differences in Low
- Using a small hammer, gently tap the Slave Pin (E) into the Trigger Pin Hole (tapered 8.
- Coard a stand failming, genary up the aldver fin (L) into the ingger in into (experse end first) until it begins to engage the Ech Assembly (A). Once the Slave Pin (E) is started, lift the Lower Receiver slightly to allow the Trigger Pin (X) (X) room to fall out. Strike the Slave Pin (E) quickly enough to follow the Trigger Pin (X) through and catch all the internal components. Carefully strike it with enough force to make it flush with the Lower Receiver, being careful not to damage the Lower Receiver. It may help to apply gentle "back-pressure" on the Trigger Pin (X), until the Slave Pin (E) is flush with the Lower Receiver, force, carefully strike it with enough force to (E) is flush with the Lower Receiver, force, careful the Trigger Pin (X), until the Slave Pin (E) is flush with the Lower Receiver (force, careful the Trigger Pin (X), until the Slave Pin (E) is flush with the Lower Receiver (force). The Trigger Pin (X), until the Slave Pin (E) is flush with the Lower Receiver (force). The Trigger Pin (X), until the Slave Pin (E) is flush with the Lower Receiver (force). The Trigger Pin (X), until the Slave Pin (E) is flush with the Lower Receiver (force). The Trigger Pin (X), which the Slave Pin (E) the Slave Pin 9. (E) is flush with the Lower Receiver. (See fig. 31) The Trigger Pin (X) may then be
- Then, using a 3/32 Punch, gently tap the Slave Pin (E) until it is no longer making contact 10. with the Lower Receiver, and the Trigger should come out easily. (See fig. 32) Remove Pistol Grip, Safety Detent Spring (W), Safety Detent (V), and Detent Cap (J). 11.





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Reassembly Instructions

(If Needed)



- Remove the Trigger Body Return Spring (ii) and the Trigger Lock Spring Bracket (iii) 1. (See fig. 33)
- 2. Push the Anti-Hammer Follow Disconnector (vii) forward and pull up on the Anti-Hammer Follow Disconnector Spring (i) to unseat it from the Spring Pocket. Then remove the Anti-Hammer Follow Disconnector Spring (i) and set it aside for later. (see fig. 34)
- Place the Echo Selector Lever Cam (iv) in the Trigger Body (v). With the Trigger Body (v) facing left (if on a flat surface), ensure the flat side of the Echo Selector Lever Cam (iv) is 3 face up. (See fig. ii)
- With a bit of grease, position the Echo Detent Spring (vi) in the Pocket just in front of the Anti-Hammer Follow Disconnector (vii) (see π_{0} . 33) Cartelily set the prepared Trigger Body (v) down, to pick up when the Disconnector Assembly (viii) is ready to install. (see π_{0} . 36) 4
- 6. Place the Disconnector Spring (ix) into the Disconnector Spring Pocket (x). Use a bit of grease, if needed, to keep the Disconnector Spring (ix) in place. (See fig. 37)
- Hold the Moving Sear (xi) so that the Echo Detent Cutout (xii) and the Disconnector Spring Seat (xiii) opening face up. (See fig. 38) 7
- 8 Fit the Echo Detent (xiv) onto the Moving Sear (xi). The Pin Holes (xviii) should easily line and the Echo Detent Spring Post (xv) should be pointing down. (See fig. 39)

9. Gentlemen

My consulting firm was asked to provide an opinion concerning the classification of Fos-My consulting infm was asked to provide an opinion concerning the classification of ros-Tech MFG, LUS: new model of Echo trigger which incorporates a trigger lock system to further guard against the potential of a firearm firing with hammer follow through. As part of my research and analysis, I have reviewed product diagrams and descriptions that you have provided, reviewed previous ATF Firearm Technology Branch rulings, and utilized my exten-sive experience in fireanns technology classification related matters. This experience includes, sive experience in fireanns technology classification related matters. This experience includes, among other things, over two decades in the United States Marine Corps, work as a firearms instructor, and fitteen years with the Bureau of Alcohol, Tobacco and Firearms, including time as the acting chief of ATTs Firearms Technology Branch - the branch of ATF charged with rendering firearms classification decisions. As a consultant, I have worked with numerous other federal firearm licensees with regard to ATF regulatory compliance and related matters, including a number of firearm manufacturers. Accordingly, and while my analysis and opinion is set forth in additional detail below, it is my opinion that the new model of FoSTecH's Echo trigger containing the new trigger lock does not constitute a machinegun pursuant to the National Firearms Act

National Firearms Act. I. LEGAL DEFINITIONS AND BACKGROUND:

LEGAL DEFINITIONS AND BACKGROUND: LUGAT 18 U.S.C. § 201(a)(3), the Gun Control Act of 1968 ("GCA") defines the term "firearm" to include "any weapon (including a starter gun) which will or is designed to or may be readily converted to expel a projectile by the action of an explosive ... [and] ... the frame or receiver of any such weapon..." Moreover, under 26 LuC. S. § 5845(b). The National Firearms Act of 1934 ("NFA") defines "machinegun" to include "any weapon which shoots, is designed to shoot, or can be readily restored to shoot, automatically more than one shot, without manual reloading, by a single function of the trigger. This term shall also include the frame or receiver of any such weapon, part designed and intended solely and exclusively, or combination of eart designed and intended solely and exclusively, or combination and any to any sourh weight, any part besigned and interfede sourp and exclusively, or combination of parts designed and intended, for use in converting a weapoin into a machinegun, and any combination of parts from which a machinegun can be assembled if such parts are in the possession or under the control of a person." (emphasis added), Thus, the question presently under consideration is whether the new model of the Echo trigger containing the trigger lock falls within the definition of "machinegun" under the NFA.

IL APPLICATION AND ANALYSIS

II. APPLICATION AND ANALYSIS: As a preliminary matter, it has long been ATFs position (dating back to the late 1980s) that semi-automatic rifles having "two-stage" triggers that fire one round on the trigger pull and another round on the trigger release are not machineguns, because ATF interprets "single function of the trigger" to mean a "single movement of the trigger, whether that movement is the pull of the trigger or the release of the trigger." ATF reiterated this position when it approved the design underlying the Echo trigger and determined that, without more, the mere ability of a device to fire a shot upon the pull of the trigger and a second shot upon release of the tringer does not render ta "machinenu" as feldinged in the ME & See ATE i letter 0703f0the trigger does not render it a "machinegun" as defined in the NF A. See, A TF Letter 903050: WS, 2211/201397 (issued November 20, 2013 to Mr. Peter Hawbaker). Accordingly, since ATE interprets the term "single function of the trigger" in the NA definition of machinegun to mean a single movement of the trigger, and the "pull" of a trigger and the "release" of a trigger each constitute separate movements, if a firearm does not allow more than one shot

trigger each constitute separate movements, in a interarm does not allow more than one shot to fire on a single trigger pull or a single trigger release, such a firearm is, by definition, not a "machinegun." Here, the Echo trigger is specifically designed to fire a single shot on each movement of the trigger, and in my evaluation of the Echo trigger. Hat is in fact what it does. Such is confirmed by ATFs approval of the underlying design in the 2013 Hawbacker letter. However, in an attempt by A1 5 approval of the underlying design in the 2015 hardwater letter. However, in an attempt to further enhance the Echo trigger and increase its Stafety. FoSTecH has updated the Echo sys-tem with a new trigger lock mechanism that was not a part of the underlying design when it was supplied to ATT for evaluation. As a result, while FoSTecH is confident that the enhanced Echo trigger containing the new trigger lock remains outside the definition of "machinegum" because it in no way substantively changes, modifies and/or interferes with the operation of the approved design, out of an abundance of caution, FosTecH requested that I independently, and without restriction, evaluate the revised mechanism to determine if I agree.

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- 9. Position the Disconnector Spring (ix) into the Disconnector Spring Seat (xiii) in the Moving Sear (xi), then compress until the Pin Holes (xvii) roughly line up and the Disconnector (xvi) is seated over the Echo Detent (xiv) and under the ledge in the Moving Sear (xi). Pinch the Disconnector Assembly (viii) tight to hold it together. (See fig. 40)
- Set the Disconnector Assembly (viii) into the Trigger Body (v), so that the Echo Detent Spring Post (xv) engages the Echo Detent Spring (vi). (see fig. 41) 10 Compress the Disconnector Assembly (viii) onto these Springs by pressing down on the Disconnector (xvi), until the Slave Pin (xvii) can be inserted through the Pin Hole (xviii).
- (See fig. 42) 12
- Press down and slightly forward on the Disconnector (xvi) to line up the Pin Holes (xviii). Start the Slave Pin (xvii) (tapered end first) into the Pin Hole (xviii) on the side of the Trigger Body (v) that is face up. Press the Slave Pin (xvii) into the Trigger Body (v)
- unit the flager body (v) into the tage up. Frees the state Fin (with into the ringer body (v) unit the flat end of the Slave Pin (xvii) is flush with the Trigger Body (v). (See fig. 43) Guide the Anti-Hammer Follow Disconnector Spring (i) back into the Pocket of the Anti-Hammer Follow Disconnector (vii), and carefully re-install it into the Pocket on the Trigger Body (v). (See fig. 44)
- Set the Trigger Lock Spring Bracket (iii) over the Pin Hole (xviii), so that the Trigger Lock Spring Bracket (iii) sits on top of the Anti-Hammer Follow Disconnector (vii) (not behind it). (See fig. 45)

15. Reinstall the Trigger Body Return Spring (ii). (See fig. 46)



process is available on videos at our YouTube channel The entire Insta

*Tools used in installation/assembly may be different than tools pictured. STEP BY STEP 10.

The new Echo trigger lock feature is not a necessary component of the functionality of the Echo trigger, and the new component does not in any way impact the one-movement/one-fire nature any of the device. Thus, the addition of the trigger lock should in no way impact ATFs approval of the underlying design as non-substantive changes can be made to approved designs without risking their approved status. Instead, the new trigger lock fabure is intended as an advanced safety mechanism designed to eliminate the ability of a firearm to discharge as a result of

When an AR-type firerarm is equipped with the Echo trigger having the trigger lock feature, it functions as follows: 1) If the firearm is loaded and the selector is dialed to the standard semiautomatic position, the firerarm will operate as a standard semiautomatic firearm firing once for every trigger pull with no firing upon release. 2) In the standard semiautomatic position, the trigger lock functions to prevent the possibility of harmer follow-through. Should a shooter have the ability to activate the trigger faster than the firearm can function, the trig-er lock will prevent the trigger from being pulled until the firearm is completely in battery. 3) If the firearm is loaded and the selector is dialed to the Echo position, the firearm will fire in connection with both the pull and release of the trigger. No components of the Echo The harmer is cocked and researce of the trigger sectors of the components of the trigger permit allow automatic free. A) In the Echo position, the components of the firearm operate as follows:
The harmer is cocked and resist on the trigger searnose.
When the trigger is activated, it releases the harmer from the trigger

when the utget is activated, it releases the nammer from the utget is activated, it releases the nammer is nammer is captured to be the finar cycle. The bolt pushes the hammer rearward once the firearm is fired, and the hammer is captured by the forward release disconnector. At this point, the trigger is nothald by the trigger lock, but with the bolt carrier no longer holding it in the forward position. It is positioned to lock the trigger once the trigger is released to the forward position.

. When the trigger is released, the hammer is released from the forward release

 When the trigger is released in the names is second shot to be fired.
Journa the above described cycle, the trigger lock prevents the trigger from being pulled until the firearm is in battery while not preventing the trigger from moving to the forward position. . This cycle repeats with every pull and release of the trigger

5) In the event that a shooter holds the trigger in a position that neither the trigger sear nose nor the forward release disconnector captures the hammer, the anti-hammer follow-through disconnector will still catch the hammer. (b) Once the anti-hammer follow-through event is engaged, the shooter must pull the trigger rearward to disengage the anti-hammer

nector is engaged, the shooter must pull the trigger rearward to disengage the anti-hammer follow-through disconnector in order to start the firing sequence over again. III. CONCLUSION: The Echo trigger system without the trigger lock addition is unquestionably not a "machine-gun" and there is a verifiable history of ATF opinions to support this, both in general and specifically pertaining to the underlying design. As the inclusion of the new trigger lock system on the new model of FosTecH's Echo trigger system does nothing to change the underlying design, the device's functionality, or to otherwise somehow allow more than one round for each movement of the trigger – in fact, although not recommended, removal of the trigger lock system would not impact the original functionality in any way –, and it is my opinion that such does not alter the Echo's previously approved classification and the new model of Echo trigger system likewise is not a "machinegun" as defined in the NFA. Please contact me with any questions or concerns that you may have or should you re-quire any clarification of my opinion. This letter and the opinions contained therein are in-tended solely for FosTecH MFG, LLC and are not to relied upon by any other individual or entity for any purposes.

entity for any purposes.



903050: WJS 3311/301397 NOV 3 3 2013 Dear Mr. Hawbaker

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ol components are installed (see encloss ie to FTB letter # 2012683-WS, which r proposed trigger device. Although we classified this device as a "machineous

ed by FTB con This assemble The e ly to rear, pric to the release of trigger, for th

ine its two modes of operation, FTB first performed a manual function test on ted sample in its "normal mode" with the device selector placed in its k position." This test disclosed that the submitted sample would function as it de semisutomatic RA-type firearm.

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htr. Peter Hawhake

The second function test, performed in the "modified mode," with the c placed in its" polclock position," found that (1) a pull of the trigger wo hammer, and (2) a subsequent release of the trigger would allow the se disconnector to release the hammer. At this point, an unmodified trigger relatin the hammer on the trigger-engagement surface; the modified pro-relatin the hammer on the trigger-engagement surface; the modified pro-sential methammer on the trigger-engagement surface is modified pro-sential methammer on the trigger-engagement surface; the modified pro-sential methammer on the trigger-engagement surface;

Based on these function tests, our Branch has determined your syst only a single shot to be fired with each movement of the tripper since worstes a positive disconnector function for the "pull" shot and the "release" shot. esult, the safe capture of the hammer after the "pull" shot has been fired is not ed by the rapid release of the trigger by the shooter. Consequently, if the trigger is slowly, a condition known as "hammer follow" <u>does not</u> cour.

Live-fire testing of the accompanying host firearm with your submitted trigger devi installed confirmed the results of the manual function testing. If the trigger was pail and released deliberately and quickly, a single show was fired for each pail and each release. Further, if the trigger was pulled slowly, "hammer-follow," which could ca firearm to show tatomstically more than one shot, without manual reloading, by a s

red on the results of our *c*_sammer_____ d trigger device, as received and examined, <u>doet not</u> constitute a d parts designed admintended for use in converting a weapon int Also, FTB finds that the host AR-type firearm, CMMG MK-4 (s -101303), not having any modifications made to the receiver that intermediate the second secon

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