

ZEV PRO TRIGGER, ZEV ADJUSTABLE TRIGGER, & ZEV PRO CONNECTOR



USER / TECHNICAL MANUAL

⚠ WARNING:

CANCER AND REPRODUCTIVE HARM

For more information, go to:

WWW.P65WARNINGS.CA.GOV

If you notice an issue, please contact us immediately.

ZEV TECHNOLOGIES 805-486-5800

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ZEV ADJUSTABLE TRIGGER



ZEV PRO CONNECTOR



ZEV TECHNOLOGIES TRIGGER INSTALL ATION INSTRUCTIONS

SAFETY GUIDELINES

MARNING Failure to follow the safety information and safety instructions in this manual could result in death, serious personal injury and/or property damage.



Treat every firearm as if it's loaded.



Never point your firearm at anything you do not intend to shoot.



Never pull the trigger or put your finger on the trigger or in the trigger guard until you have made the decision to fire.



Never take anyone's word that a firearm is unloaded: always check for yourself, with the firearm pointed in a safe direction and your finger off of the trigger and outside of the trigger guard.

PRE-INSTALLATION SAFETY NOTES:

- The ZEV Technologies Trigger should be installed by a Glock® Armorer or experienced pistol-smith.
- Prior to handling any firearm for cleaning or maintenance, ensure that the magazine is removed and that the firearmis unloaded.
- Move all ammunition to another room.
- Double check chamber, that there is no round present and the magazine is removed
- Check again that the gun is unloaded.
- Wear eye protection.
- · Some parts are spring loaded. Eye injury can occur.
- · Read your Glock owners manual.
- Field strip your Glock.
- Installation of the ZEV Technologies Trigger should be done on a clean and mechanically sound firearm only.

UNLOADING PROCEDURE



If the trigger is in the forward position, your pistol may be loaded.



Although your Glock pistol has a loaded chamber indicator, it is a mechanical device, which could fail. Never rely solely on a loaded chamber indicator or your memory to determine whether your pistol is loaded or unloaded. Always remove the magazine, retract and lock the slide by pulling it fully to the rear and then visually and physically (with your finger) check to make sure there is not a cartridge in the chamber



It is possible that a cartridge may be in the chamber when a magazine is being removed from or inserted into your pistol. A cartridge in the chamber will discharge when the trigger is pulled, whether or not a magazine is in your pistol. Therefore, never leave your pistol unattended, even when the magazine is removed. You must always verify that the chamber is empty before field stripping (disassembling into its major components) your pistol for cleaning or any other reason.

MARNING To ensure that your pistol is unloaded, you MUST proceed in the following order.

- 1. Remove the magazine by pressing the magazine catch. (Image 1)
- 2. While holding the grip with your firing hand, with your finger off of the trigger and outside of the trigger quard, grasp the rear of the slide at the serrations with your other hand and pull the slide fully back to eject any cartridge that may be in the chamber. (Image 2)
- 3. Lock the slide in the rearward (open) position by pushing up on the slide stop lever and slowly releasing the slide from the fully rearward position until it locks in the open position.





UNLOADING PROCEDURE

- 4. Once the slide is locked to the rear, both visually and physically (with your finger) (Images 3-5) inspect both the chamber and the magazine well of the pistol to be sure that no ammunition remains in either place.
- Release the slide to return it to the forward (closed) position by either pressing the slide stop lever down or grasping the rear of the slide at the serrations with your other hand and pulling the slide fully back and then releasing it.
- With the muzzle of your pistol pointed in a safe direction (a safe direction is one in which no one can possibly be injured in the event of an unintentional discharge), pull the trigger. (Image 6)









The following instructions are for installation by a GLOCK armorer or qualified pistol-smith.

WARNING Make sure your firearm is unloaded before proceeding with disassembly and trigger installation.

Recommended Tools:

- 3/32" punch or Glock disassembly tool of your choice
- · Armorer's Block (not required but helpful)
- Following the Field Stripping procedure in your Glock Owner's Manual, remove the slide from your frame. (Image 1)
- 2. Using a punch, from the left side of the frame, push the locking block pin all the way through the frame until it drops out. (Image 2)
- Using a punch, from the left side of the frame, push out the trigger housing pin. (Image 3)

NOTE: The pin will come out easier if you move the slide stop lever back and forth, and up and down until you feel the pin start to move. Do not apply excessive force, as you may damage the slide stop, the pin, or both. Keep manipulating the slide stop until the pin moves. Then push the trigger pin out of the frame.

The slide stop lever is now free and can be removed.

4. Using a punch, from the left side of the frame, push out the ejector housing pin. (Image 4)









- Remove the locking block.
 From underneath the locking block, use a punch to gently pry it up out of the frame. (Image 5)
- Gently lift the trigger housing by pulling up underneath the ejector, then simply pull the trigger assembly up and out of the frame. (Image 6)

NOTE: If installing a ZEV trigger kit, skip to step 11.

- 7. Disconnect trigger bar from the spring. (Image 7)
- 8. Using a punch, push the connector out from the back side of the housing. (Image 8)

CAUTION Do not pry or pull up the connector from the front side, this can bend or damage the connector.

 Insert the new ZEV Technologies Connector (included) into the trigger housing. Push down from the bend in the connector until fully seated into the trigger housing. (Image 9)

NOTE: The ZEV Connector is designed to not lay entirely flush in the housing channel. Do not bend or alter the angle of the connector to lay flush.











- **10.** Connect the trigger spring to the rear of the ejector housing.
 - (1) Insert the trigger spring open end down. The spring goes over the back lip of the housing and threads through the hole below the small notch.
 - (2) Then rotate upward. (Image 10a)

The open end of the "S" shape made by the trigger spring faces forward toward the ejector. (Image 10b)

- (Image 10b)
- 11. Hold the connected end of the trigger spring in place while connecting the open end of the spring to the ZEV Technologies trigger bar. (Image 11)
- Install the ZEV Technologies trigger bar into the ejector housing and rotating the trigger bar in to position. (Image 12)
- Make sure the trigger spring is correctly installed and still connected to the ejector housing after installing and rotating the trigger bar. (Image 13)











- 14. Install the trigger assembly. Grab it by the extractor, position it over the frame and carefully push down into the frame. At the same time, guide the trigger into it's corresponding slot. Jiggle it a little if necessary. Make sure the trigger assembly is fully seated into the frame. (Image 14)
- 15. Install the Locking Block from the top of the frame, then install the locking block pin into the top hole from the right side of the frame. (Image 15)

NOTE: Install the pins in the frame from the reverse side that you removed them (Right to Left)

 Install the Slide Release Lever, making sure the wire nubbin is under the locking block pin to provide proper tension. (Image 16)

17. Install the Trigger Pin (Right to Left). It may be necessary to wiggle the slide release lever up and down, and front to back to get the pin started. Do not force the pin. If it will not insert, continue manipulating the slide release lever until the pin begins to slide into the frame.

18. Insert the Ejector Housing Pin in the back of the frame.

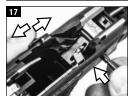
(Image 17)

 Reattach the assembled slide and perform the following trigger reset and safety tests. (Image 18)











TRIGGER SAFETY CHECK

WARNING Make sure your firearm is unloaded before proceeding with either of the Trigger Safety or Trigger Reset tests.

Every time you prepare to shoot your pistol, the trigger mechanism, firing pin, connector, and the trigger spring should be checked for defects.

NOTE: If you have a ZEV Adjustable Trigger, determine all screws are secured, and re-apply thread lock to any screws you adjust.

- With the gun pointed in a safe 1. direction, and your finger off the trigger, rack the slide.
- 2. Grab both sides of the trigger, making sure not to depress the trigger safety.
- Push the trigger toward the rear of the trigger guard. A functional trigger safety will hit the frame and stop the gun from disengaging (dry firing). (Image 1)



♠ WARNING

If the oun disengages (dry fires), have it repaired IMMEDIATELY!

TRIGGER RESET CHECK

MARNING Make sure your firearm is unloaded before proceeding with either of the Trigger Safety or Trigger Reset tests.

Every time you prepare to shoot your pistol, the trigger mechanism, firing pin, connector, and the trigger spring should be checked for defects.

NOTE: If you have a ZEV Adjustable Trigger, determine all screws are secured, and re-apply thread lock to any screws you adjust.

- 1. With the gun pointed in a safe direction, and your finger off the trigger, rack the slide.
- 2. Depress the trigger to release the firing pin and continue holding the trigger back in the fired position. (Image 1)
- 3. While holding the trigger back in the fired position, rack the slide.
- 4. Slowly release the trigger. It should reset normally. (Image 2)
- 5. If the trigger resets normally you are ready for live fire testing to be done at your local shooting range.





WARNING If the firing pin releases while the trigger is moving forward, the trigger does not have the proper amount of engagement. Please call us IMMEDIATELY!

ZEV ADJUSTABLE TRIGGER

The ZEV Adjustable Trigger comes pre-adjusted from the factory for pre-travel and over-travel positions. This pre-adjustment is a starting point from which you can fully adjust the trigger to suit your personal preferences.

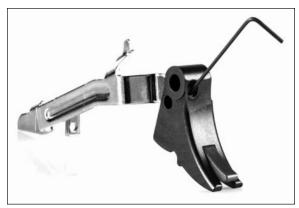
Our recommendation is to shoot the ZEV Technologies factory setting to familiarize yourself with the trigger prior to making any adjustments. Many find the factory adjustment to be perfect for their pistol with no further adjustment needed.

If desired, adjust pre-travel and over-travel set screws located at the front and rear of the trigger. Set screw adjustments must be made while the ZEV Adjustable Trigger is outside of the frame. Follow the disassembly procedure listed in the beginning of this manual.

Δ IMPORTANT

Set screws are secured with thread locker and will need to be heated with a small, controlled flame, such as that from a cigarette lighter, to loosen.

ZEV ADJUSTABLE TRIGGER



PRE-TRAVEL ADJUSTMENT



OVER-TRAVEL ADJUSTMENT

ZEV ADJUSTABLE TRIGGER — PRE-TRAVEL ADJUSTMENT

To make an adjustment:

- 1. Remove the ZEV Adjustable Trigger from the frame following the disassembly procedure listed in the beginning of this manual.
- Heat the trigger with a lighter to 2. loosen the thread locker on the set screw.
- Use the supplied hex wrench to adjust the pre-travel.

The pre-travel is decreased or increased by gently tightening or loosening the set screw, located on the front face of the trigger. (Image 1)

Turning clockwise will tighten the pre-travel screw, and the pre-travel distance is decreased.





NOTE: Use a very small, 1/8 turn per adjustment. A little goes a LONG way!

ADANGER Do not decrease the pre-travel to the point at which the trigger safety does not engage, or trigger does not reset with the proper minimum gap clearance between the back of the ZEV Trigger safety and the frame. (Image 2)

If pre-travel and/or over-travel settings are not satisfactory, remove the ZEV Adjustable Trigger from firearm and readjust.

Repeat process as necessary, until desired pre-travel and over-travel settings are achieved

ZEV ADJUSTABLE TRIGGER – OVER-TRAVEL ADJUSTMENT

Over-travel is adjusted in the same manner as the pre-travel setting, with the trigger removed and heated, adjust the set screw located at the rear of the trigger.

(Image 1)

By turning the over-travel screw clockwise, the over-travel distance is decreased.



NOTE: Use a very small, 1/8 turn per adjustment. A little goes a LONG way!

A DANGER Decreasing the over-travel in excess will cause the ZEV Adjustable Trigger to become "mushy" when pulling the trigger. This is the result of the trigger bar not having enough over-travel to properly release the firing pin.

> Ensure that the ZEV Adjustable Trigger maintains adequate over-travel to allow trigger activation and proper firing pin reset

If pre-travel and/or over-travel settings are not satisfactory, remove the ZEV Adjustable Trigger from firearm and readjust.

Repeat process as necessary, until desired pre-travel and over-travel settings are achieved.

ZEV ADJUSTABLE TRIGGER – TROUBLE SHOOTING

In the event of a reset failure or trigger activation failure, follow these steps:

- Lock slide back using slide lock lever. (Image 1)
- 2. Using a disassembly tool push and hold down the polymer spacer sleeve as shown. (Image 2)
- With the polymer spacer sleeve held down carefully slide the slide cover plate off the slide. (Image 3)

⚠ WARNING:

The firing pin assembly and extractor depressor plunger (EDP) spring assembly are both spring loaded and can "shoot out" when tension from the back cover plate is released. Great care should be exercised and eye protection worn!

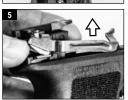
- 4. Remove the firing pin assembly and extractor depressor plunger assembly (Image 4)
- Return slide to battery. Now, you will be able to remove slide from frame without needing to pull the trigger.
- Remove ZEV Adjustable Trigger group from frame following the Disassembly procedure at the beginning of this manual. (Image 5)
- Loosen pre-travel and/or over-travel set screw(s) as needed to achieve proper reset and trigger function.
 *counter-clockwise to loosen.









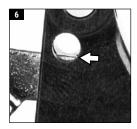


ZEV ADJUSTABLE TRIGGER - TROUBLE SHOOTING

To reset your ZEV Adjustable Trigger to factory settings for pre-travel and over-travel, please follow these steps:

Over-Travel:

- The set screw should be backed out until it is flush with the back of the trigger pad.
- 2. Through the witness hole, you should see the trigger bar slightly protruding. (Image 6)



Pre-Travel:

- Take one of the two supplied adjustment wrenches and insert it into the witness hole above the the trigger pin hole on the trigger pad. (Image 7)
- With the second wrench, set the pre-travel adjustment so the trigger bar just touches and holds the wrench in place between the trigger pad and the trigger bar. (Image 8)

