



## KILLER INNOVATIONS

VELOCITY DEFENSE COMPENSATOR FOR SIG P320


INSTALLATION, USE AND CARE INSTRUCTIONS


### BEFORE YOU START THE INSTALLATION, PLEASE READ THE FOLLOWING:


1. THIS COMPENSATOR IS DESIGNED TO BE USED WITH SPECIFIC SIG P320 PISTOLS DEPENDING ON THE COMPENSATOR YOU PURCHASED. **PLEASE SELECT THE CORRECT COMPENSATOR FOR YOUR PISTOL.** THE COMPENSATORS ARE DIFFERENT AND WILL NOT WORK WITH ANYTHING OTHER THAN WHAT THEY ARE MARKED FOR. PLEASE VERIFY YOU ARE INSTALLING THE CORRECT COMPENSATOR FOR YOUR PISTOL. EACH BRAKE IS MARKED WITH THE MODEL AND CALIBER ON THE BACK. THEY MUST MATCH YOUR PISTOL BEFORE PROCEEDING! **DO NOT ATTEMPT TO USE THIS COMPENSATOR ON OR WITH ANY OTHER PISTOL OR CALIBER THAN IT IS MARKED FOR! ANY ATTEMPT TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH!**
2. VERIFY YOUR BARREL IS 1/2-28 THREAD PITCH. IT CAN NOT BE INSTALLED ON ANY OTHER THREAD PITCH.
3. YOUR COMPENSATOR PACKAGE SHOULD INCLUDE THE FOLLOWING ITEMS:

A.  QTY 1 COMPENSATOR BODY WITH BUTTON INSTALLED

B.  QTY 2 LOCKING RINGS  
(SMALL RING = FULL COMPENSATION POWER)  
(LARGE RING = REDUCED COMPENSATION POWER)

C.  QTY 2 #8-32 X 3/16 HALF DOG SET SCREWS  
(FOR USE WITH KI SLOTTED BARRELS)

D.  QTY 2 #8-32 X 3/16 POINTED SET SCREWS  
(FOR USE WITH DIMPLED BARRELS)

E.  QTY 2 #8-32 X 3/16 CUP POINT SET SCREWS  
(FOR USE WITH STANDARD BARRELS)

F.  QTY 1 BLUE THREAD LOCKER

### INSTALLATION

1. INSTALLATION AND TEST FIRING SHOULD ALWAYS BE PERFORMED BY A COMPETENT GUNSMITH.
2. ALWAYS CLEAR YOUR FIREARM OF ANY AMMUNITION AND MAKE SAFE BEFORE INSTALLING OR UNINSTALLING THIS COMPENSATOR! ALWAYS FOLLOW PROPER FIREARM SAFETY WHEN USING OR WORKING ON YOUR PISTOL!
3. IF YOU ARE USING A VELOCITY DEFENSE BARREL FOR SIG P320 (VD SLOTTED BARREL), THIS WILL BE EXTREMELY EASY! IF YOU ARE INSTALLING THIS COMPENSATOR ON ANOTHER BRAND OF THREADED BARREL THERE ARE A COUPLE OF ADDITIONAL STEPS AND CHECKS THAT NEED TO BE FOLLOWED TO ENSURE SAFE OPERATION.
4. BE SURE TO REMOVE THE RUBBER O-RING BEFORE INSTALLING THE COMPENSATOR!
5. **THIS SECTION APPLIES IF YOU ARE INSTALLING ON A VELOCITY DEFENSE BARREL (VD SLOTTED BARREL), OR IF YOUR GUNSMITH HAS MACHINED THE 3 & 9 O'CLOCK SLOTS ACCORDING TO THE APPROPRIATE "NOTCH AND DIMPLE" PRINT LOCATED ON OUR WEBSITE AT [WWW.KILLER-INNOVATIONS.COM/INSTRUCTIONS](http://WWW.KILLER-INNOVATIONS.COM/INSTRUCTIONS)**
  - A. PLEASE INSTALL THE ITEM C. QTY 2 #8-32 x 3/16 HALF DOG SET SCREWS WITH A 5/64 HEX WRENCH AND A DROP OF BLUE THREAD LOCKER. RUN THEM IN UNTIL THE TOP OF THE SCREW IS FLUSH WITH THE OUTSIDE OF THE COMPENSATOR FOR NOW.
  - B. SLIDE THE COMPENSATOR OVER THE THREADED END OF THE BARREL UNTIL IT STOPS AT THE THREAD SHOULDER.
  - C. LEVEL THE COMPENSATOR WITH THE TOP OF THE SLIDE. TIGHTEN BOTH SET SCREWS UNTIL THEY STOP IN THE SLOTS LOCATED AT 3 AND 9 O'CLOCK ON THE BARREL. THEN BACK OFF BOTH SET SCREWS 1/4 TURN.
  - D. AT THIS POINT, MAKE SURE THE COMPENSATOR IS NOT ABLE TO ROTATE ON THE BARREL AND THAT THE TOP OF THE COMPENSATOR IS STILL LEVEL WITH THE TOP OF THE SLIDE.
  - E. PULL THE COMPENSATOR FORWARD ABOUT HALF-WAY OFF THE THREADS. (NOTE: IT CAN BE KIND OF TIGHT SLIDING FORWARD WHEN NEW) PLACE THE DESIRED REDUCTION FORCE LOCKING RING IN THE OPEN SLOT IN THE TOP OF THE COMPENSATOR. THREAD THE LOCKING RING ONTO THE BARREL WHILE PUSHING THE LOCKING BUTTON LOCATED ON THE RIGHT SIDE OF THE COMPENSATOR ALL THE WAY IN. AS YOU THREAD THE LOCKING RING ONTO THE BARREL YOU CAN NOW PULL THE COMPENSATOR ALL THE WAY BACK TO THE SHOULDER UNTIL IT STOPS. FINISH TIGHTENING THE LOCKING RING UNTIL IT STOPS FINGER TIGHT, THEN

LET OFF THE LOCKING BUTTON. THE LOCKING BUTTON WILL PREVENT THE RING FROM COMING LOOSE WHEN FIRING.

F. PROCEED TO SECTION 8.

6. **THIS SECTION APPLIES IF YOU HAD YOUR GUNSMITH DIMPLE THE BARREL AT 3 & 9 O'CLOCK ACCORDING TO THE APPROPRIATE "NOTCH AND DIMPLE" PRINT LOCATED AT [WWW.KILLER-INNOVATIONS.COM/INSTRUCTIONS](http://WWW.KILLER-INNOVATIONS.COM/INSTRUCTIONS)**
  - A. PLEASE INSTALL THE ITEM D. QTY 2 #8-32 X 3/16 POINTED SETSCREWS WITH A 5/64 HEX WRENCH AND A DROP OF BLUE THREAD LOCKER. RUN THEM IN UNTIL THE TOP OF THE SCREW IS FLUSH WITH THE OUTSIDE OF THE COMPENSATOR FOR NOW.
  - B. PUT THE COMPENSATOR ONTO THE THREADED BARREL ABOUT HALF-WAY. PLACE THE LOCKING RING IN THE OPEN SLOT IN THE TOP OF THE COMPENSATOR. THREAD THE LOCKING RING ONTO THE BARREL WHILE PUSHING THE LOCKING BUTTON LOCATED ON THE RIGHT SIDE OF THE COMPENSATOR ALL THE WAY IN. AS YOU THREAD THE LOCKING RING ONTO THE BARREL YOU CAN NOW PULL THE COMPENSATOR ALL THE WAY BACK TO THE SHOULDER UNTIL IT STOPS. FINISH TIGHTENING THE LOCKING RING UNTIL IT STOPS FINGER TIGHT, THEN LET OFF THE LOCKING BUTTON. THE LOCKING BUTTON WILL PREVENT THE RING FROM COMING LOOSE WHEN FIRING.
  - C. ROTATE THE COMPENSATOR UNTIL THE TOP IS LEVEL WITH THE TOP OF THE SLIDE. THEN TIGHTEN THE POINTED SETSCREWS UNTIL TIGHT AGAINST THE DIMPLES IN THE BARREL.
  - D. PROCEED TO SECTION 8.
7. **THIS SECTION APPLIES IF YOU ARE INSTALLING THE COMPENSATOR ON ANOTHER BRAND BARREL THAT HAS NOT BEEN DIMPLED OR NOTCHED**
  - A. WE RECOMMEND THAT THE BARREL BE DIMPLED OR NOTCHED BY A COMPETENT GUN SMITH IF POSSIBLE. HOWEVER, THE BRAKE CAN BE USED WITH AN UNMODIFIED BARREL IF NEEDED. **WARNING: THIS METHOD WILL LEAVE SET SCREW MARKS ON THE SIDES OF YOUR BARREL.**
  - B. PLEASE INSTALL THE ITEM E. QTY 2 #8-32 X 3/16 CUP POINT SET SCREWS WITH A 5/64 HEX WRENCH AND A DROP OF BLUE THREAD LOCKER. RUN THEM IN UNTIL THE TOP OF THE SCREW IS FLUSH WITH THE OUTSIDE OF THE COMPENSATOR FOR NOW.
  - C. PUT THE COMPENSATOR ONTO THE THREADED BARREL ABOUT HALF-WAY. PLACE THE DESIRED REDUCTION FORCE LOCKING RING IN THE OPEN SLOT IN THE TOP OF THE COMPENSATOR. THREAD THE LOCKING RING ONTO THE BARREL WHILE PUSHING THE LOCKING BUTTON LOCATED ON THE RIGHT SIDE OF THE COMPENSATOR ALL THE WAY IN. AS YOU THREAD THE LOCKING RING ONTO THE BARREL YOU CAN NOW PULL THE COMPENSATOR ALL THE WAY BACK TO THE SHOULDER UNTIL IT STOPS. FINISH TIGHTENING THE LOCKING RING UNTIL IT STOPS FINGER TIGHT, THEN LET OFF THE LOCKING BUTTON. THE LOCKING BUTTON WILL PREVENT THE RING FROM COMING LOOSE WHEN FIRING.
  - D. ROTATE THE COMPENSATOR UNTIL THE TOP IS LEVEL WITH THE TOP OF THE SLIDE. THEN TIGHTEN THE CUP POINT SETSCREWS UNTIL THEY ARE VERY TIGHT AGAINST THE SIDES OF THE BARREL. THE CUP POINT NEEDS TO CUT INTO THE BARREL IN ORDER TO PROPERLY SECURE THE COMPENSATOR FROM ROTATING.
8. MAKE SURE THE BRAKE IS ALL THE WAY BACK TO THE SHOULDER OF THE BARREL. MAKE SURE THE COMPENSATOR IS NOT ABLE TO SLIDE BACK AND FORTH ON THE BARREL AND THAT IT IS NOT ABLE TO ROTATE. IT SHOULD BE SECURELY FASTENED TO THE END OF THE BARREL. PULL THE SLIDE OF THE PISTOL BACK AND MAKE SURE THE FRAME COMPLETELY CLEARS THE COMPENSATOR. MAKE SURE THAT THE FRONT OF THE SLIDE IS NOT CONTACTING THE BACK OF THE BRAKE AT ANY POINT. TEST WITH A FEELER GAUGE OR STRIP OF THIN PAPER.
9. YOU ARE NOW READY TO TEST FIRE. PROPER PERSONAL PROTECTION EQUIPMENT SHOULD ALWAYS BE WORN WHILE OPERATING A FIREARM. FIRE ONE ROUND. UNLOAD THE FIREARM AND MAKE SAFE. RECHECK THE COMPENSATOR TO MAKE SURE EVERYTHING IS STILL TIGHT. YOU ARE NOW READY TO USE THE COMPENSATOR!

#### **USE:**

1. **!!!CAUTION, THE COMPENSATOR GETS EXTREMELY HOT. AFTER USE, LET IT COOL BEFORE TOUCHING!!!** AS YOU SHOOT THE PISTOL, YOU SHOULD BE PERIODICALLY CHECKING TO ENSURE THE COMPENSATOR HAS NOT COME LOOSE. CHECK THE SET SCREWS TO MAKE SURE THEY HAVE NOT BACKED OUT. ALWAYS MAKE SURE THE COMPENSATOR IS LEVEL WITH TOP OF THE SLIDE. **IF ANYTHING LOOKS OR FEELS WRONG, STOP SHOOTING, INVESTIGATE AND FIX ANY ISSUES BEFORE PROCEEDING.**

#### **CARE:**

1. YOU SHOULD FULLY DISASSEMBLE AND CLEAN YOUR COMPENSATOR ABOUT EVERY 1000 ROUNDS BY REMOVING IT FROM THE PISTOL AND REMOVING THE BUTTON SCREW LOCATED ON THE BOTTOM OF THE COMPENSATOR. **DON'T LOSE THE SMALL SPRING!**
2. MAKE SURE YOU COMPLETELY REMOVE THE CARBON AND DEBRIS FROM BUTTON AND BUTTON AREA.
3. MAKE SURE THE SERRATIONS ON THE OUTSIDE OF THE LOCKING RING ARE CLEAN AND ALL CARBON AND DEBRIS HAVE BEEN REMOVED FROM THE GROOVES. THIS IS CRITICAL TO ENSURE THE LOCKING RING DOES NOT COME LOOSE DURING USE.
4. INSPECT THE COMPENSATOR FOR ANY DAMAGE BEFORE ASSEMBLY AND REINSTALLATION.
5. TO RE-ASSEMBLE: PLACE THE SMALL SPRING IN THE CUP AT THE END OF THE BUTTON AND SLIDE IT INTO PLACE ENSURING THE SPRING STAYS IN THE CORRECT POSITION. USE A SMALL AMOUNT OF BLUE THREAD LOCKER WHEN RE-INSTALLING THE LOCKING BUTTON SCREW LOCATED ON THE BOTTOM OF THE COMPENSATOR. IF YOU USE TOO MUCH THREAD LOCKER, IT WILL GLUE THE BUTTON IN PLACE WHEN IT DRIES, PREVENTING IT FROM MOVING. **DON'T OVER TIGHTEN THE BUTTON SCREW! MEDIUM FINGER TIGHT SHOULD DO IT.** THE THREADED END OF THE SCREW SHOULD BE FLUSH OR SUB SURFACE WITH THE TOP OF THE BUTTON BAR WHEN ASSEMBLED. IF IT IS PROTRUDING, YOU HAVE GONE TOO FAR.