

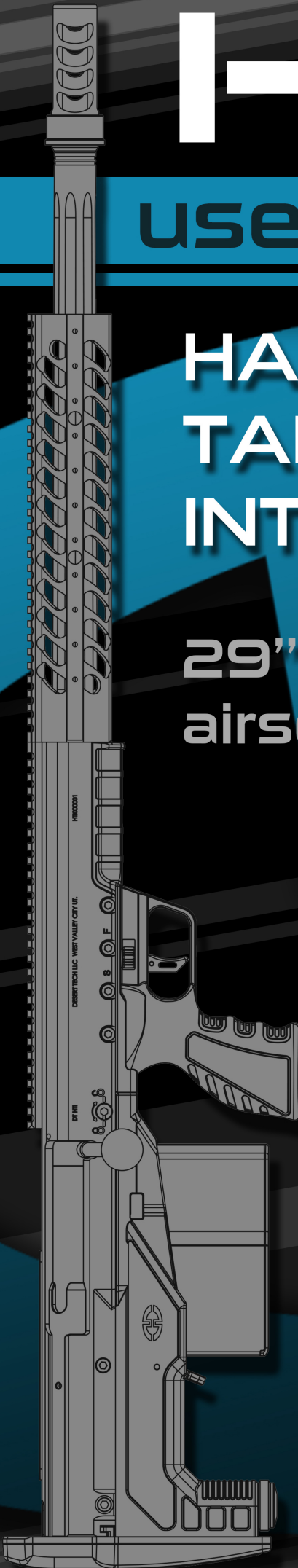
HTI

user manual



HARD TARGET INTERDICTION

29" - .50 BMG
airsoft 6 mm replica



DESERTTECH
TOMORROWS WEAPONS



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HARD TARGET INTERDICTION

SAFETY

READ THIS MANUAL CAREFULLY AND TOTALLY BEFORE USE, users should obey to laws regarding usage and ownership of airsoft guns in their country. Misuse or careless use may cause serious injury. Always treat airsoft gun as if it is loaded and with the same respect as you would treat a firearms. Don't look into the airsoft gun muzzle. Never point the airsoft gun at something you don't intend to shoot. Users should always wear safety glasses. Always carry this airsoft gun in a bag or a case and never display it in public places. Always keep the airsoft gun on "safe" position until ready to shoot in a safe direction. Always check that the airsoft gun is on "safe" position and unloaded when getting it from another person or from storage. Don't put the airsoft gun away or in storage while loaded. Don't shoot at hard surfaces or at a water surface as bbs could bounce or ricochet and hit someone or something you were not intending to hit. Always use high quality 6mm plastic bbs and never use already shot bbs, it might damage your airsoft gun. Always store this airsoft gun in a secure position, out of reach of children. Don't modify or alter your airsoft gun, attempt to modify the airsoft gun may make you airsoft gun unsafe to use and/or cause serious injury and/or void the warranty. **WE'RE NOT RESPONSIBLE FOR ANY MALFUNCTION, ACCIDENTS, INJURIES OR REPAIR COST RESULTING FROM MISUSE, DISASSEMBLY AND/OR MODIFICATION OF THIS AIRSOFT GUN.**



WARNINGS

- Take care of the feeding tube during barrel change to avoid to damage it.
- Do not overtight M3X4 hopup screws or you will damage hopup rubber.
- In case of complete inner barrel disassembly, do not overtight lateral screws or you will damage the inner barrel.
- Do not pull the trigger while the bolt is not not locked or you will damage the mechanism.
- Excessive trigger sear preload will generate safety problems and probably slam-fire problems.
- Excessive dual stage adjustment will generate safety problems and probably slam-fire problems.
- Do not overload the magazine or you will damage magazine spring.
- Do not blank fire without barrel assembly or you will damage the mechanism.
- Do not fire if barrel is not properly secured. We recommend 8 Nm torque on the 4 M6X16 screws.
- For storage, keep steel parts greased to avoid rust.
- Do not use the gun without greasing the outside of the bolt (except the nozzle).
- Do not apply any grease/oil inside the hopup and/or the barrel.
- If you're using long knurled hopup screws, you have to remove them before to remove the barrel.
- Keep the bolt closed during barrel changes to ensure perfect bolt/barrel alignment.
- Be sure no bbs are remaining in the hopup and feeding tube before removing a barrel.



DESERT TECH®

TOMORROWS WEAPONS

Desert Tech, formerly Desert Tactical Arms, has been building a better rifle since 2007 when we realized the demands of future battlefields exceeded the capabilities of current platforms. We decided then to build our rifles more accurate, more compact, more convertible for an increasingly complex world.

Our R&D department is tasked daily to fuse ground-breaking engineering with American ingenuity so that skilled machinists on state-of-the-art mills and lathes can shape battle-tested materials into Tomorrow's Weapons. Each Desert Tech rifle that enters our network of nationwide dealers and international distributors is both ergonomically and ballistically superior to any other production rifle on the planet.

Desert Tech also offers select, premium, match-grade munitions as well as world-class precision instruction across the 25,000 acres of natural terrain and sophisticated training bays at our private facility. These features compliment a complete package of detail-driven customer service for the modern-day warrior, hunter or competition shooter who demands peak performance with each and every trigger press of a Desert Tech SRS, Covert, HTI or MDR.

From concept to recoil, we are creating uncommon and uncompromising firearms with the sole intent of arming serious shooters to the very edge of their abilities and beyond. At Desert Tech, we're building Tomorrow's Weapons and it begins with a better rifle today.

DESIGNED INNOVATION

The Hard Target Interdiction rifle was designed and built at specific military customer request to provide extreme long range accuracy with irrevocable penetration. Easily convertible between multiple big-bore calibers, the HTI is accurate to 2000+ yards with any of its chamberings. Whether you're stopping light-skinned vehicles or extending personal-best distance records, the HTI provides extreme distance capabilities in the most compact, accurate and convertible package on earth.

COMPACT

The perfectly-balanced bullpup configuration of the HTI makes it 11 inches shorter and 11 pounds lighter than the M107 currently in use by the US Army.

ACCURACY

The HTI maintains exceptional accuracy because of its match-grade (free-floated) barrels, chambers and crowns, a high-quality match trigger, and solid return-to-zero barrel mounting system.

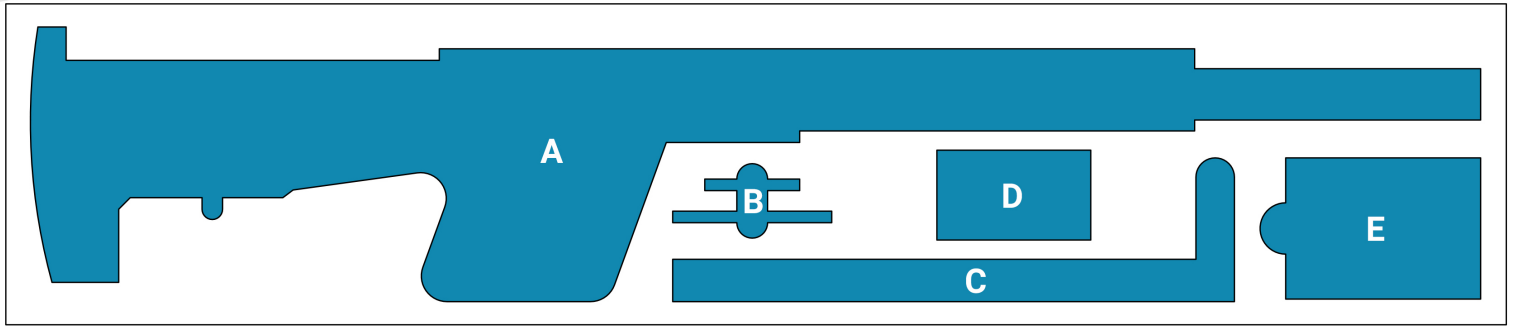
CONVERTIBLE

The HTI offers four powerful calibers to suit specific mission requirements: .375 CT, .408 CT, .416 Barret & .50 BMG. Caliber conversions for the HTI take sixty seconds and use the same HTI chassis with its free floated barrels and patented return-to-zero barrel mounting system.

Nicholas E Young

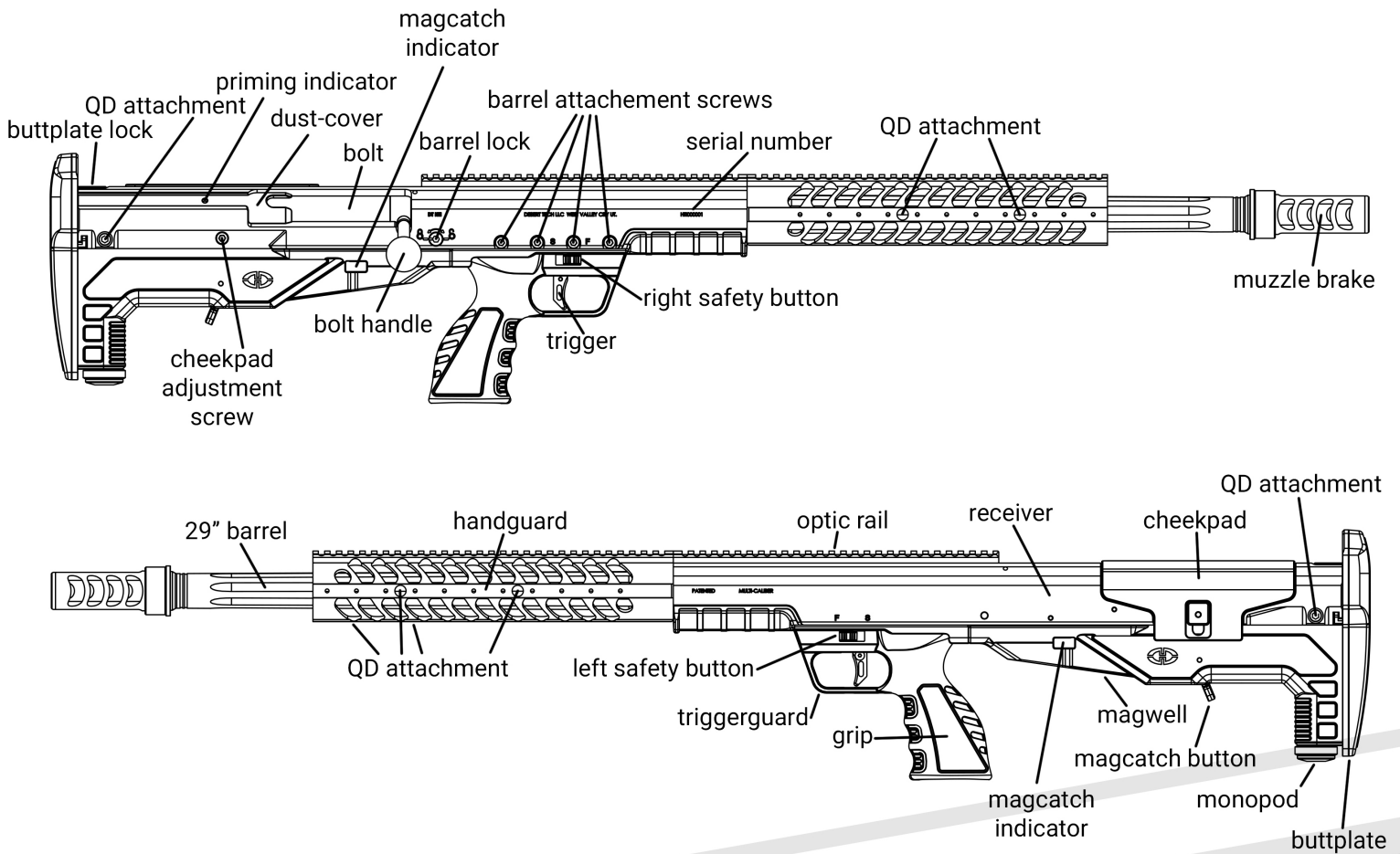


BOX CONTENT



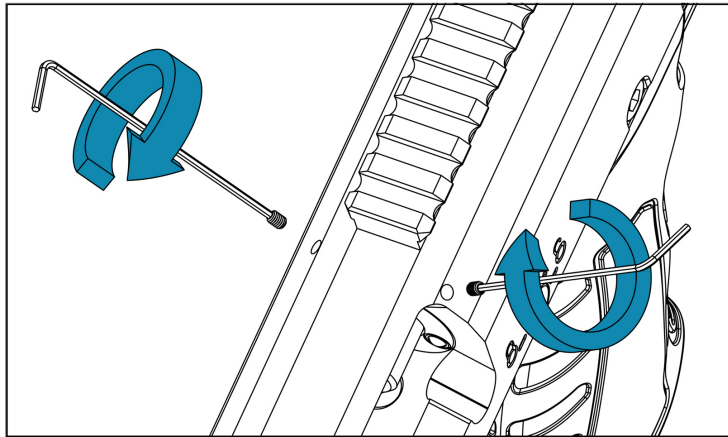
- A: HTI chassis with .50 BMG 29" barrel assembled
- B: Additional Nylon rail (2 short, 1 long)
- C: Spring guide, spring, piston, bolt
- D: Tools set, screws set, grease
- E: Magazine

GUN DESCRIPTION

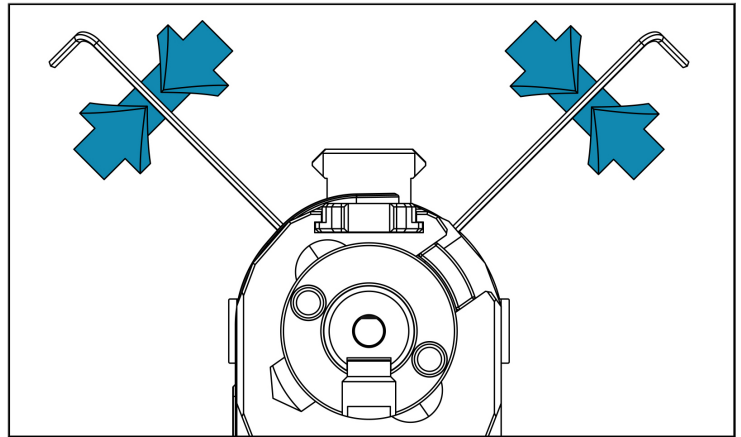


ASSEMBLY

HOPUP

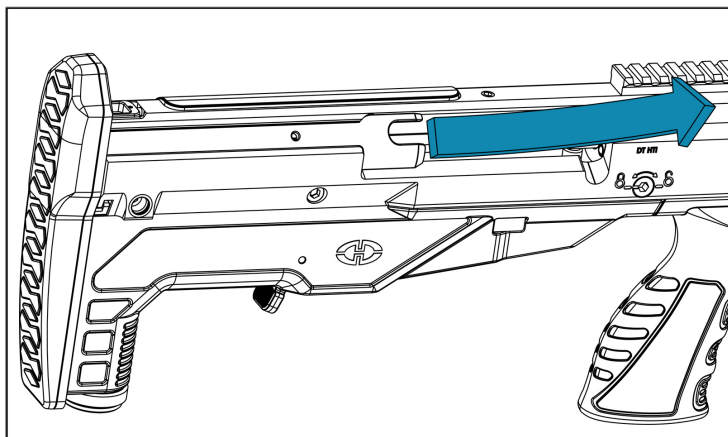


- 1** Install the two hopup screws (M3x4 ISO 4026 for quick barrel swap with return to zero capacity, or M3X22 ISO 4762 for tool-less hopup adjustment capacity) from the screws set bag.

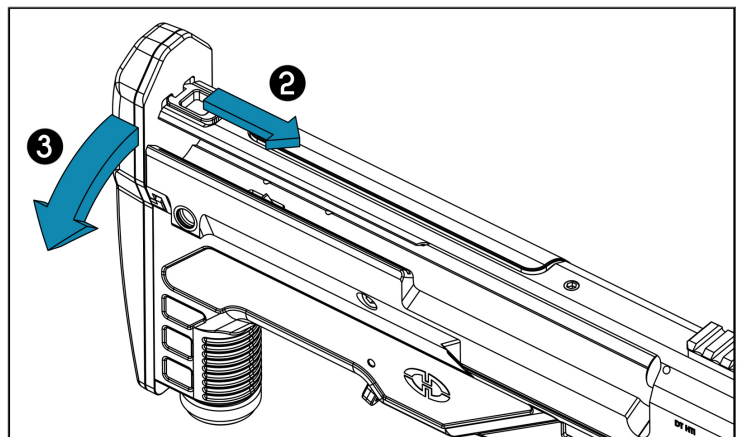


- 2** Finely tune the hopup setting (flat hopup rubber as shown here). ⚠ Excessive hopup setting could lead to jamming and/or damage the rubber.

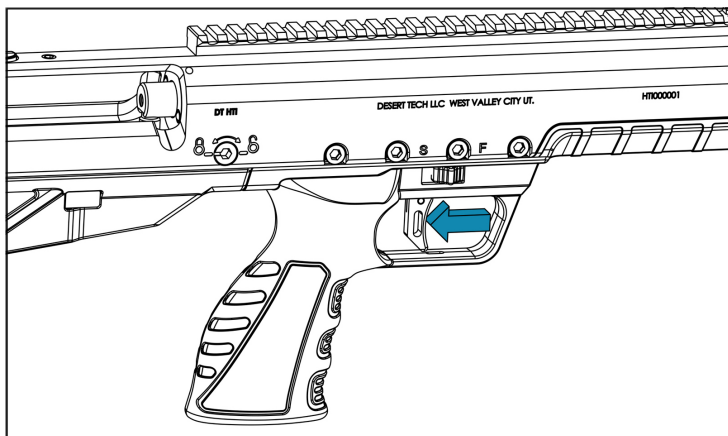
BOLT



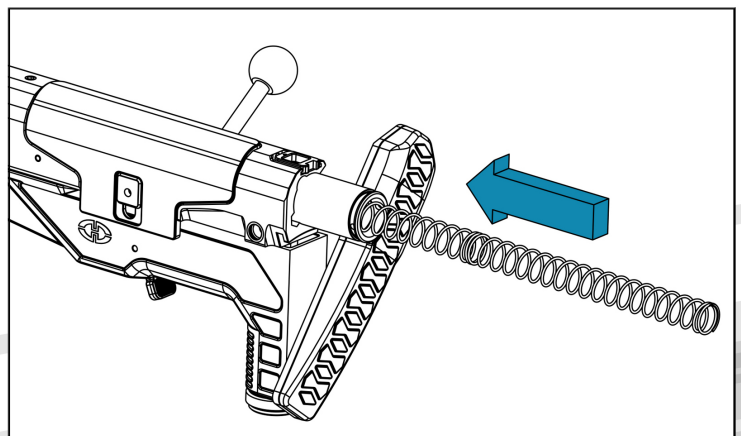
- 1** Remove the dust-cover (slide it forward).



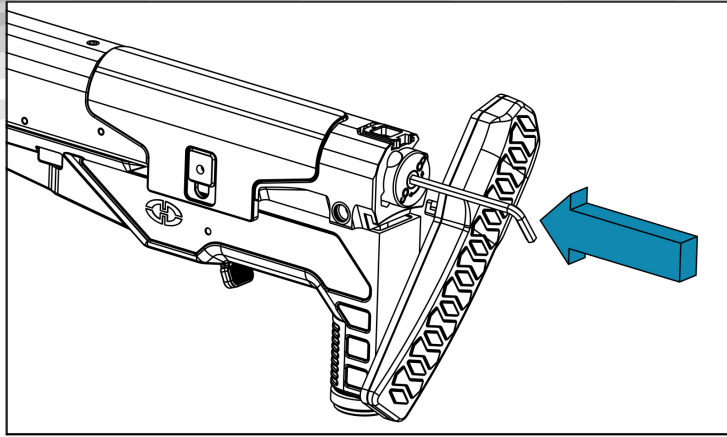
- 2** Slide forward the buttplate lock. **3** Rotate the buttplate.



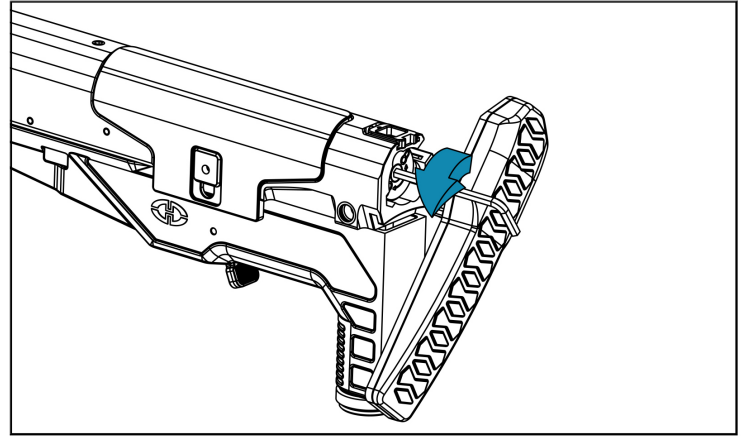
- 4** Pull and hold the trigger.



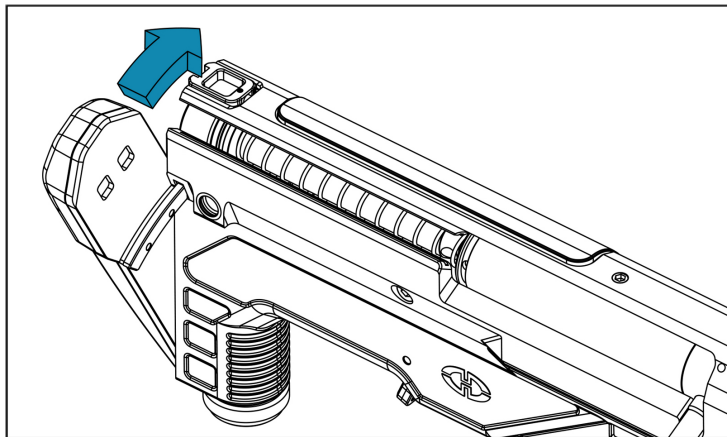
- 5** While pulling the trigger, engage the bolt, the piston and the spring inside the receiver.



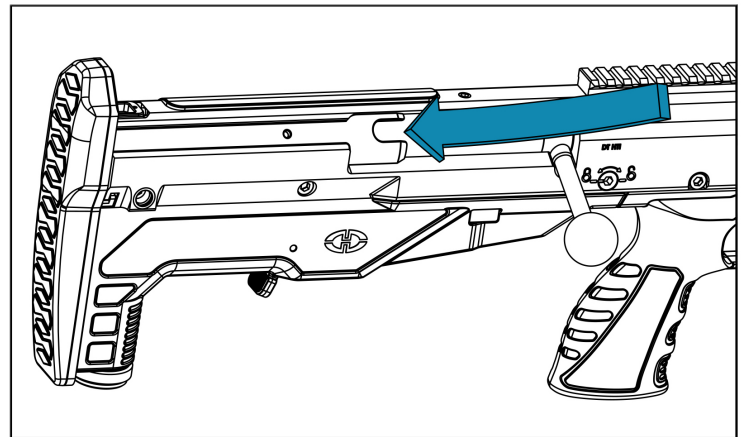
- 6** Compress the spring by pushing the spring guide inside the receiver ⚠ Make sure to perfectly align the spring guide lugs with the lug grooves.



- 7** Turn the spring guide 1/8 counter clockwise to lock it, then release the pressure.

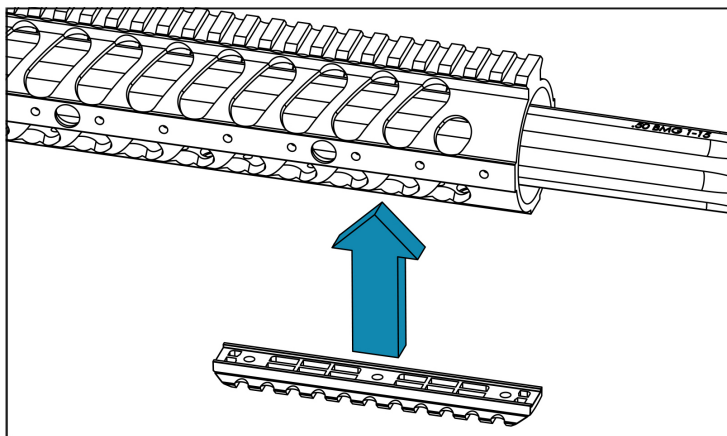


- 8** Rotate the buttplate and close it until the buttplate lock engages the buttplate.

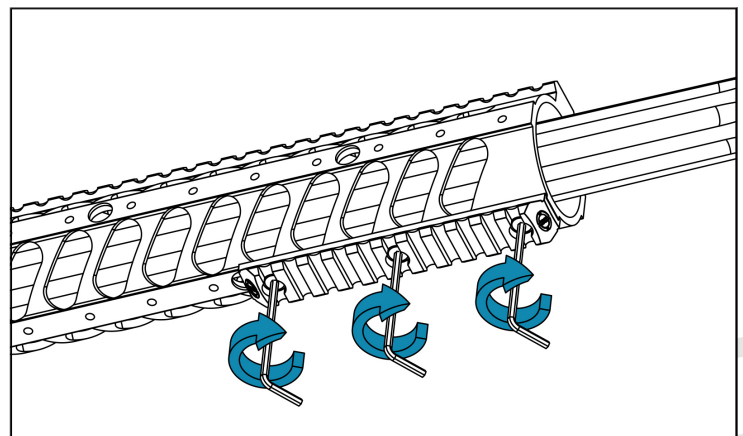


- 9** Slide the dust cover backward in place.

RAIL

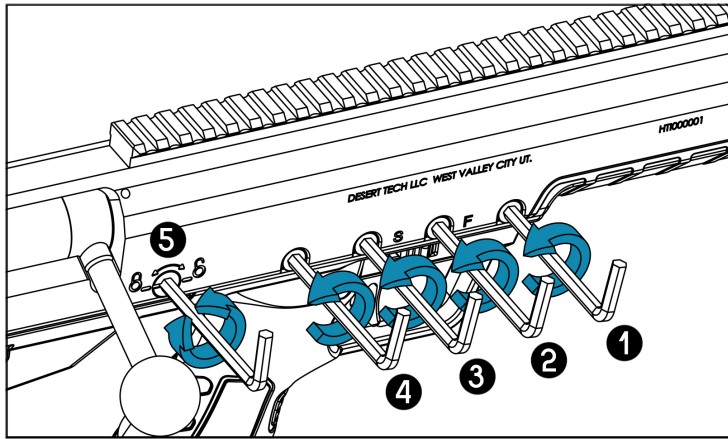


- 1** Install the rail on the handguard in the desired position.

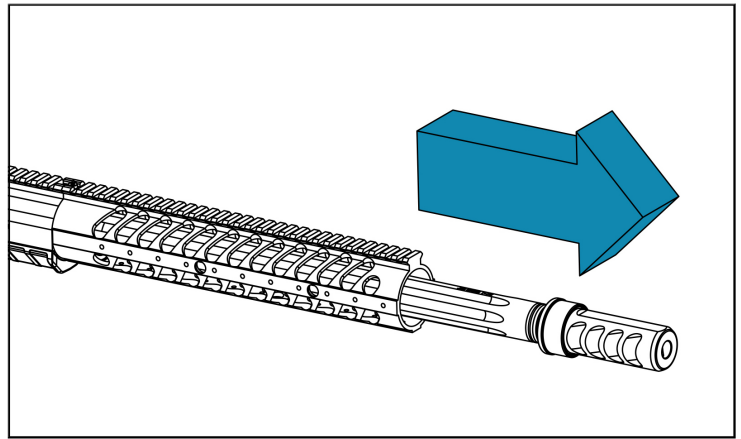


- 2** Secure the rail using M4x10 screws (2 screws for short rail, and 3 screws for long rail) from the screw set bag.

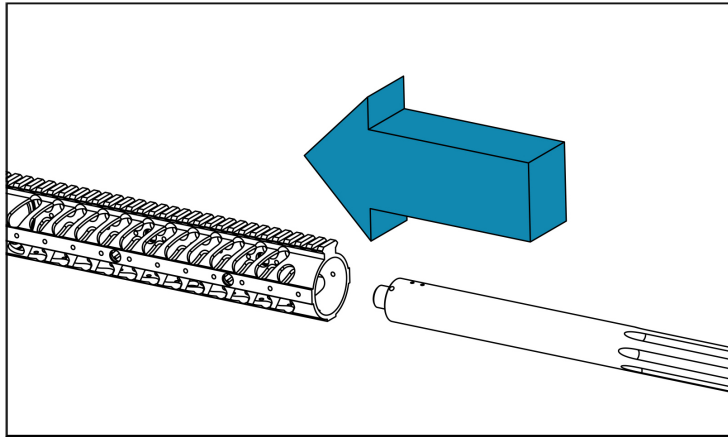
BARREL SWAP



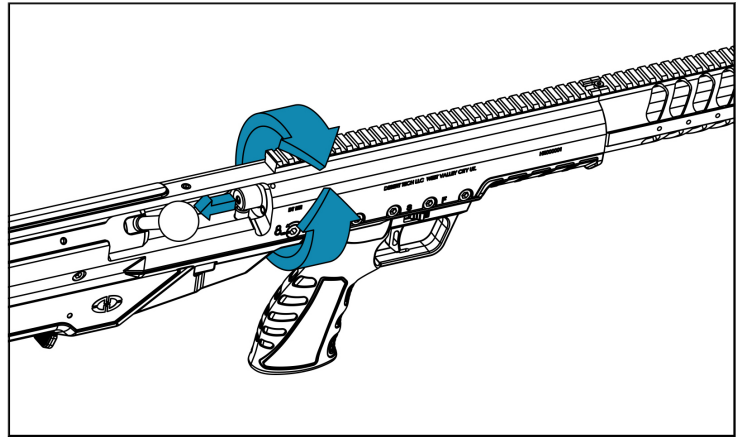
- Untighten the 4 barrel clamping screws, starting from the muzzle side **1 2 3 4** up to the bolt side.
- 5** Rotate the barrel lock to the «UNLOCK» position.



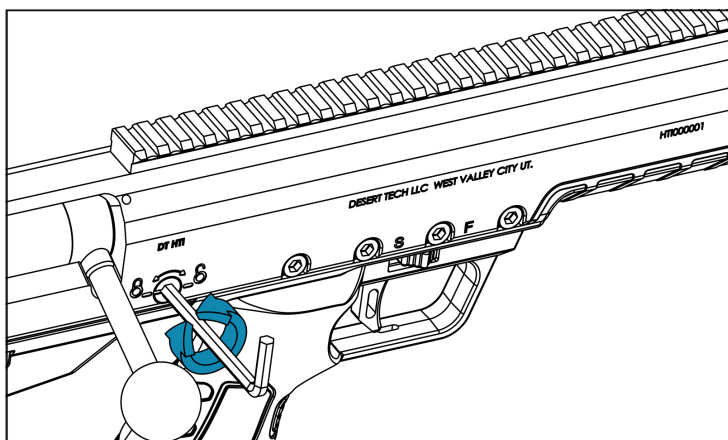
- 6** Slide the barrel outward.
- ⚠ Make sure the magazine is not engaged, and the feeding tube is empty.



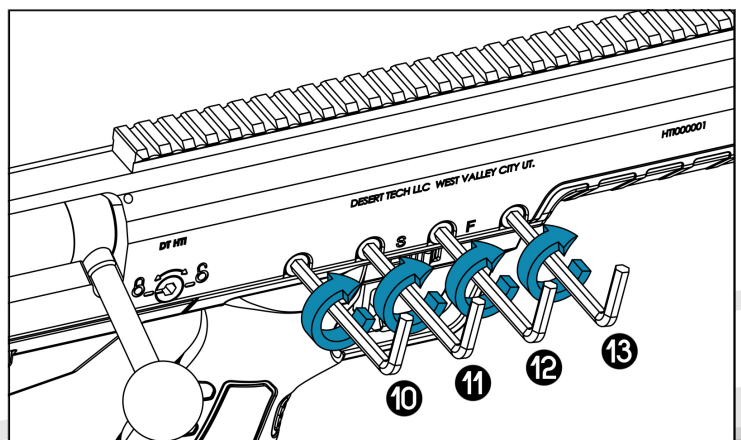
- 7** Gently insert the barrel inside the receiver.
- ⚠ Make sure the barrel lock is on «UNLOCK» position, the magazine is disengaged, and the feeding tube is empty.



- 8** Rotate and slide the barrel until the hopup fits onto the feeding tube.
- ⚠ Do not apply excessive force on the feeding tube.



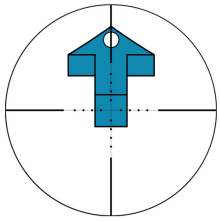
- 9** Rotate the barrel lock to the «LOCK» position.
- ⚠ Close the bolt to ensure perfect nozzle alignment.



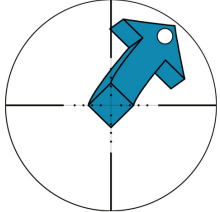
- Secure the barrel by tightening the 4 barrel screws, from the bolt side **10 11 12 13** to muzzle side.
- ⚠ Recommended torque: 8Nm.

SETTINGS

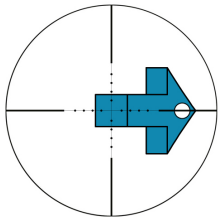
HOPUP



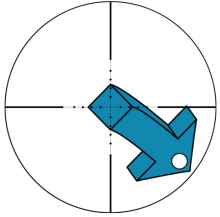
Case #1: too much hopup effect without side spin:
loosen both hopup screws equally.



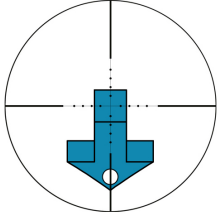
Case #2: too much hopup effect with right side-spin:
loosen right side hopup screw.



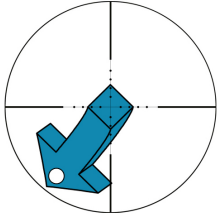
Case #3: good hopup effect with right side-spin:
loosen right side hopup screw, tighten left side
hopup screw.



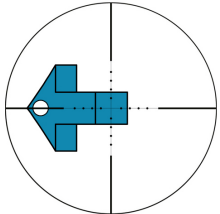
Case #4: not enough hopup effect with right side-spin:
tighten left side hopup screw.



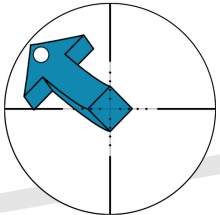
Case #5: not enough hopup effect without side-spin:
tighten both hopup screws equally.



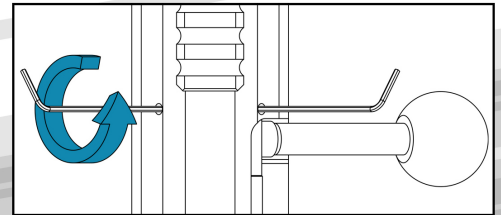
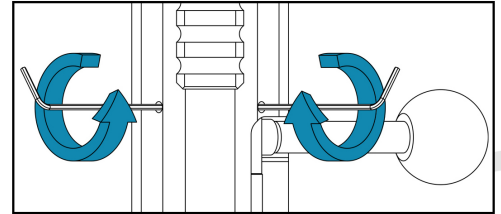
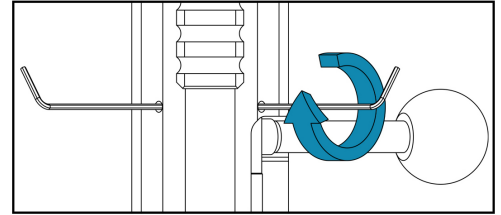
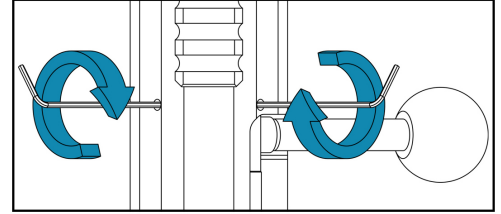
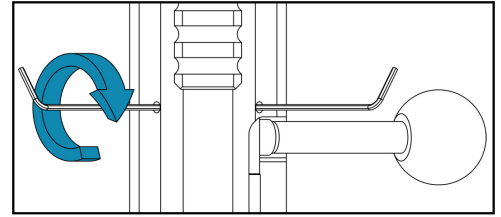
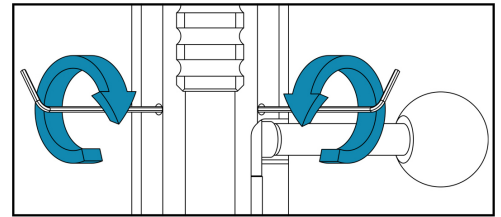
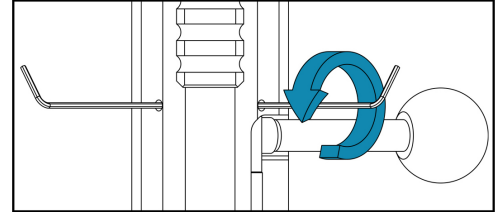
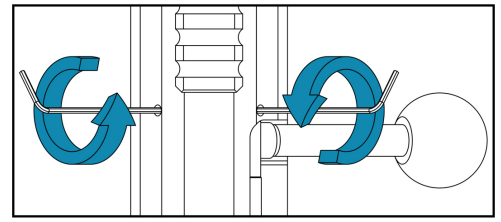
Case #6: not enough hopup effect with left side-spin:
tighten right side hopup screw.



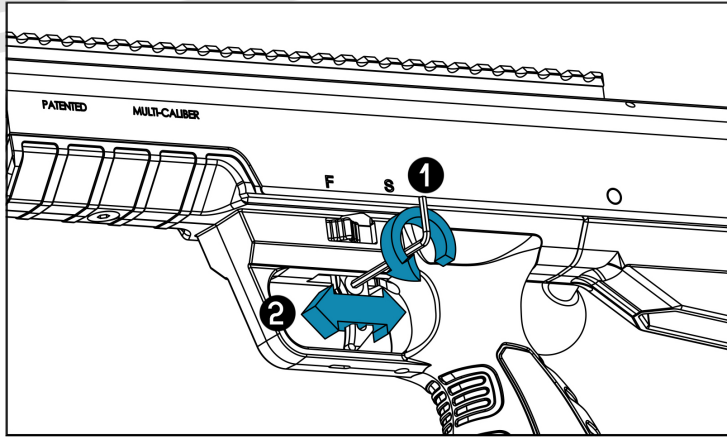
Case #7: good hopup effect with left side-spin:
tighten right side hopup screw, loosen left side
hopup screw.



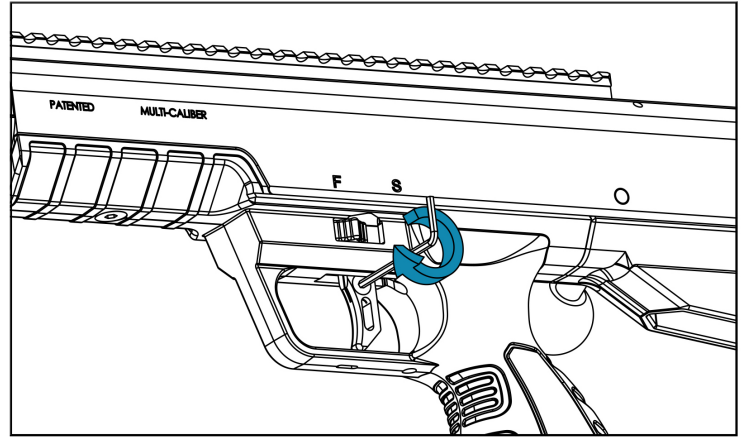
Case #8: too much hopup effect with left side-spin:
loosen left side hopup screw.



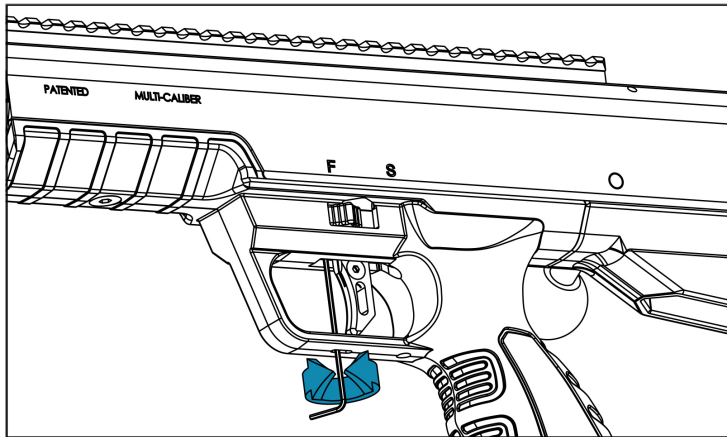
TRIGGER GROUP



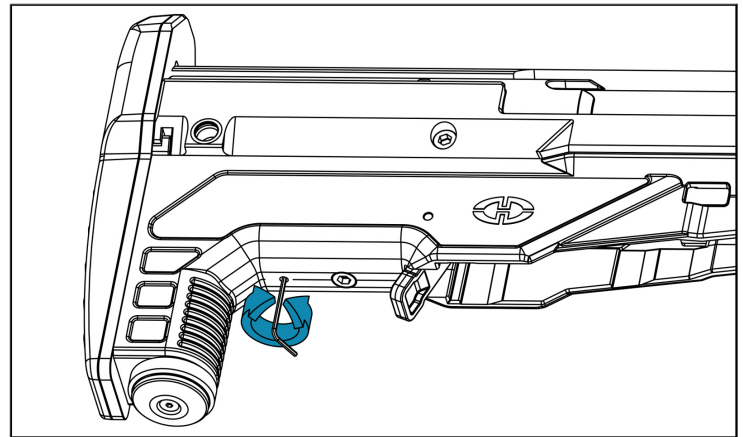
- 1** To adjust the trigger position, loosen the M4X6 trigger screw. **2** Slide the trigger forward or backward to the desired position. **⚠** Excessive backward trigger position could block the trigger movement.



- 3** Tighten the M4X6 trigger screw to lock the position of the trigger.

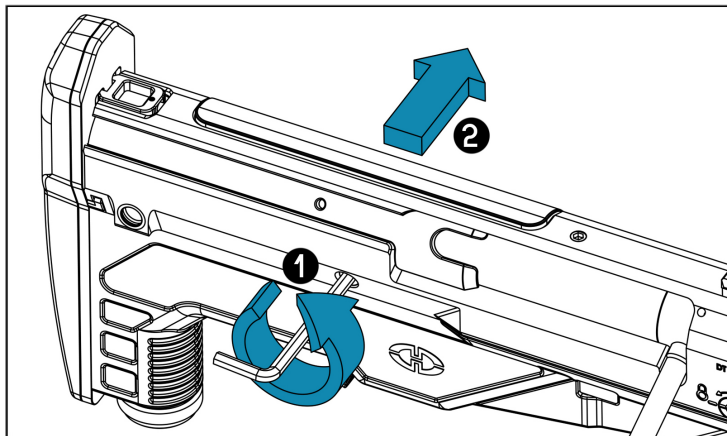


- 4** To reduce the dual stage travel, tighten the M3X12 trigger screw. To increase dual stage travel, loosen the M3X12 trigger screw. **⚠** Excessive short dual stage travel will affect the piston sear preload, disable the safety, and disable safe piston sear action.

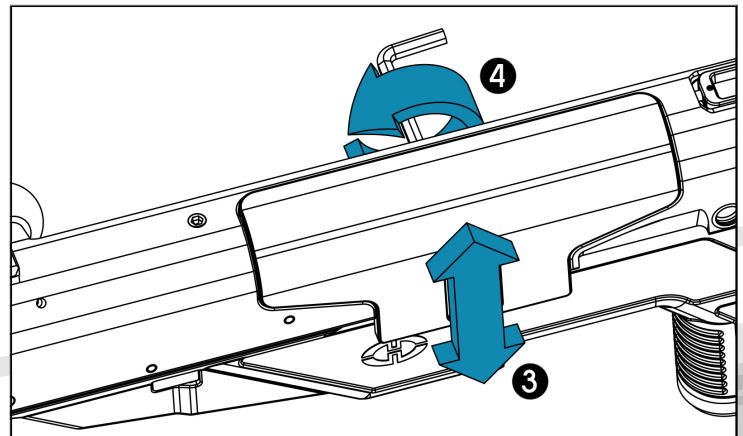


- 5** To increase piston sear preload, tighten the M3X12 trigger sear screw. To loosen piston sear preload, loosen the M3X12 trigger sear screw. **⚠** Excessive preload will disable safe piston sear action.

CHEEKPAD



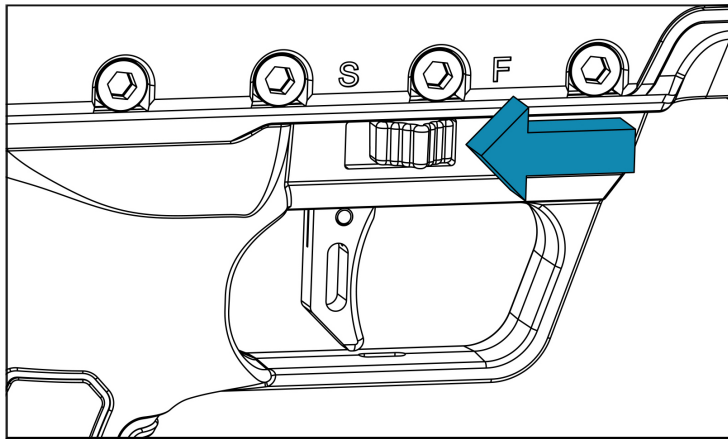
- 1** Loosen the M6X40 cheekpad screw. **2** Slide the cheekpad outward.



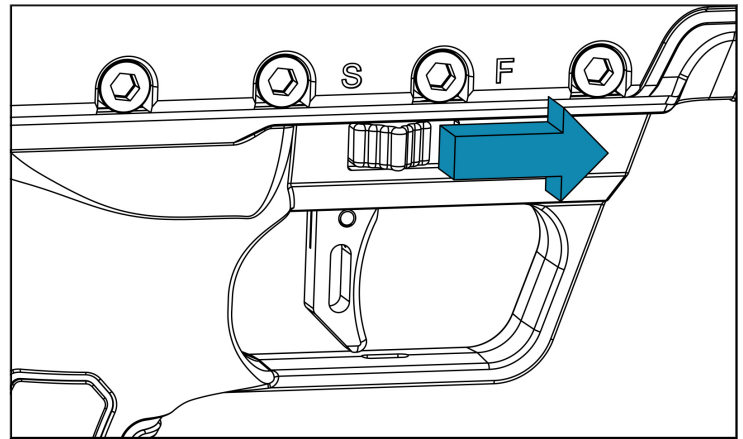
- 3** Adjust the cheekpad position. **4** Tighten the M6X40 cheekpad screw to lock the adjustment.

OPERATION

SAFETY

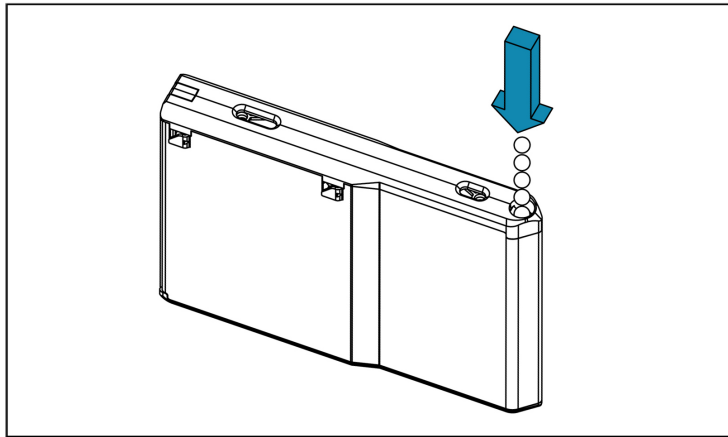


- 1** Slide the safety button (right or left side) to «S» position to engage the safety.



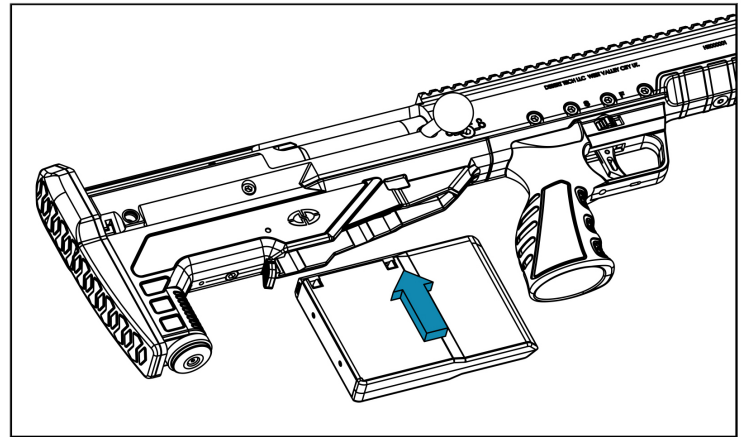
- 2** Slide the safety button (right or left side) to «F» position to disengage the safety.

MAGAZINE

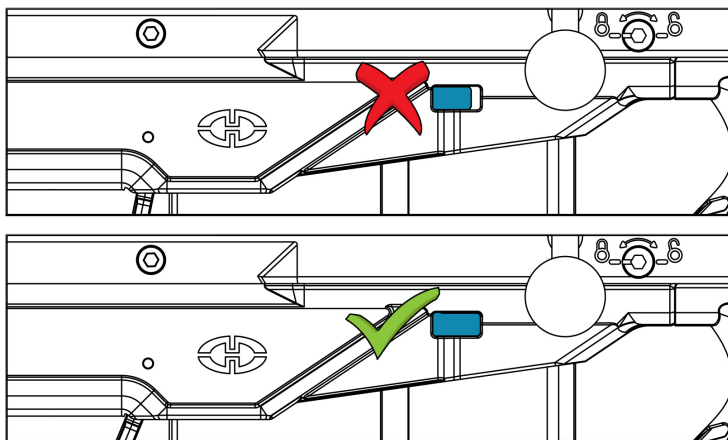


- 1** Insert 6 mm bbs inside the magazine, by hand, or using a loader.

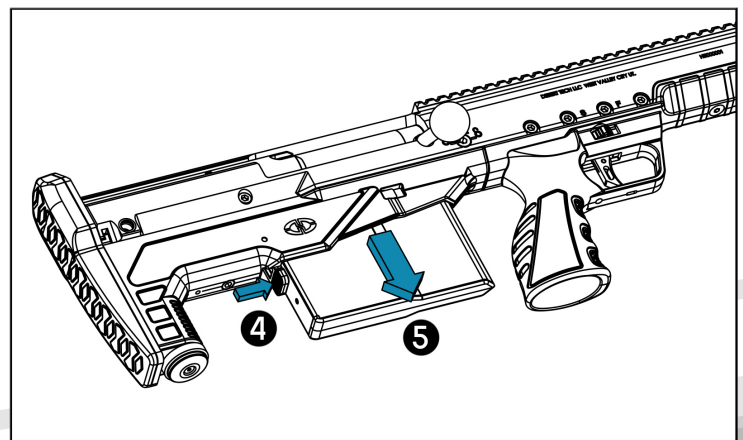
! Maximum capacity: 38 bbs with std. follower.



- 2** Insert the front of the magazine firmly inside the magwell until the magcatch plates lock the magazine in place.



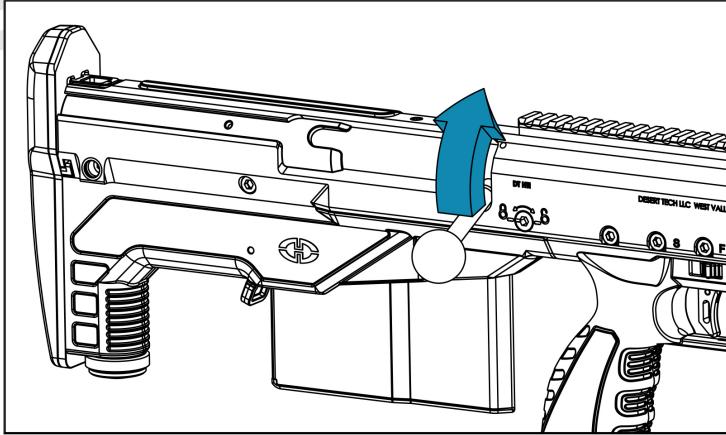
- 3** Make sure the magcatch plates are in the correct position.



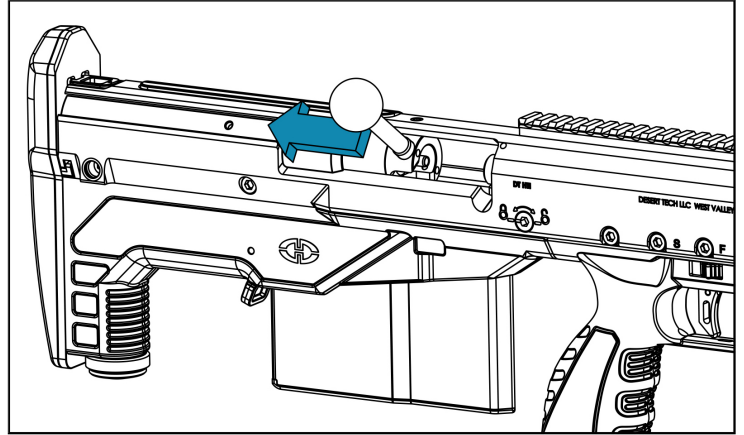
- To remove the magazine, **4** press the magcatch button, **5** and pull down the magazine from the magwell.



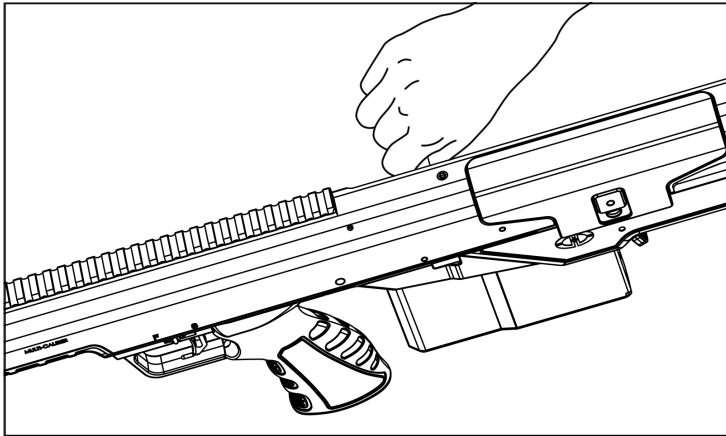
SHOOTING



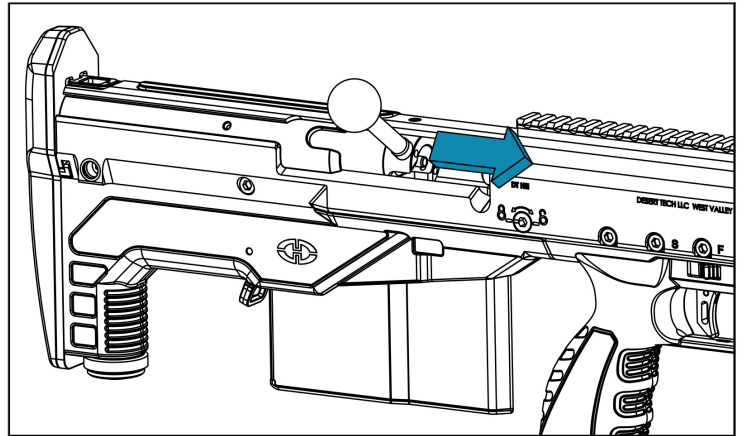
- 1** Pull up the bolt handle.
! Make sure that the bolt has not yet primed to avoid double feed.



- 2** Move the bolt backward to compress the spring and lock the piston sear (until it clicks).

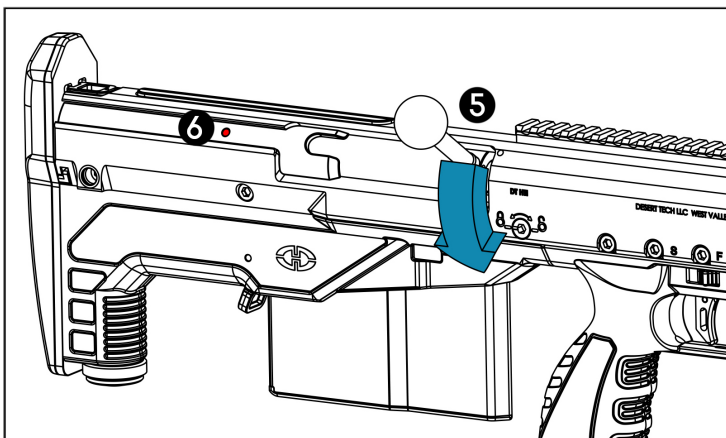


- 3** It is recommended that you pull the bolt by grabbing the bolt as close as possible to the cylinder (To reduce friction and ease priming movement).



- 4** Push forward the bolt to engage a bb inside the hopup chamber.

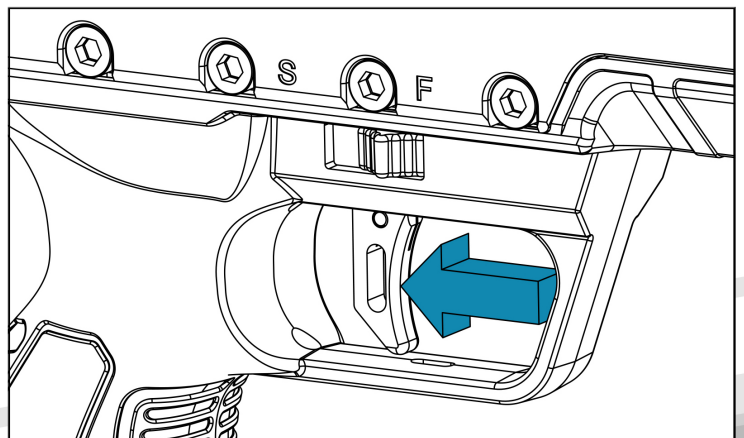
- !** You can visually check inside the hopup chamber if your magazine is empty.



- 5** Pull down the bolt handle to lock the bolt in battery.

- 6** It is possible to check if the rifle is primed by looking at the load indicator.

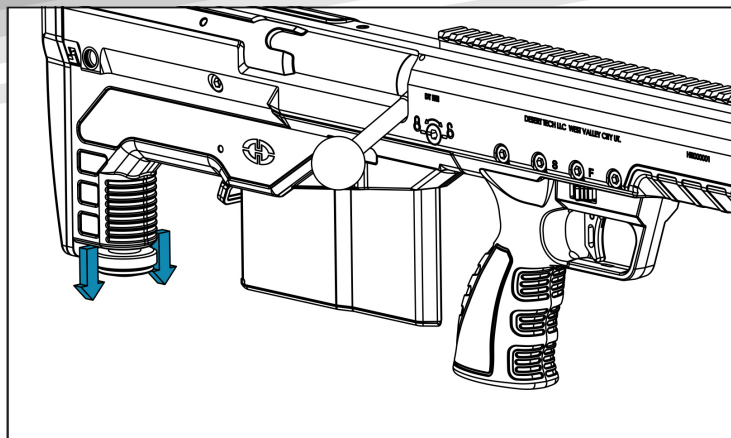
- !** Black color = not primed. Red color = primed.



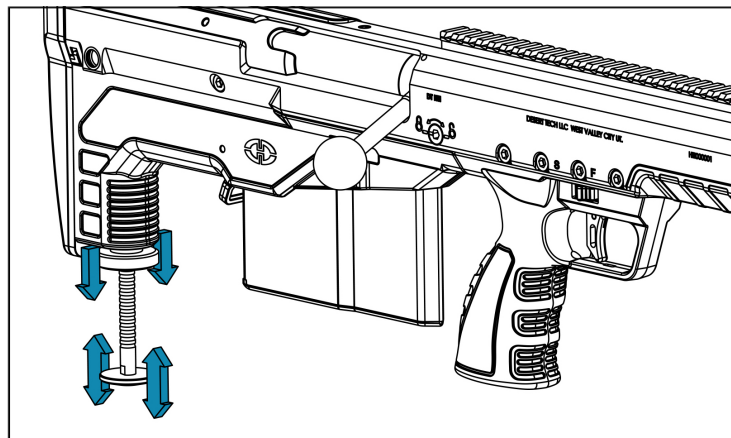
- 7** Pull the trigger to shoot.

- !** Be sure the safety is disengaged. Do not shoot without the barrel installed, it will damage the mechanism.

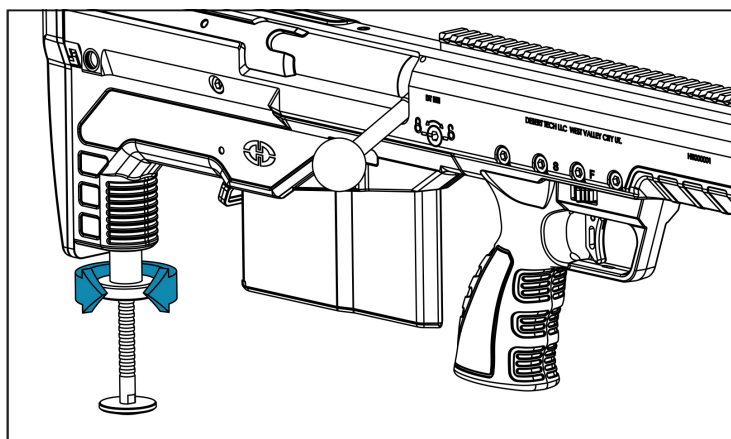
MONOPOD



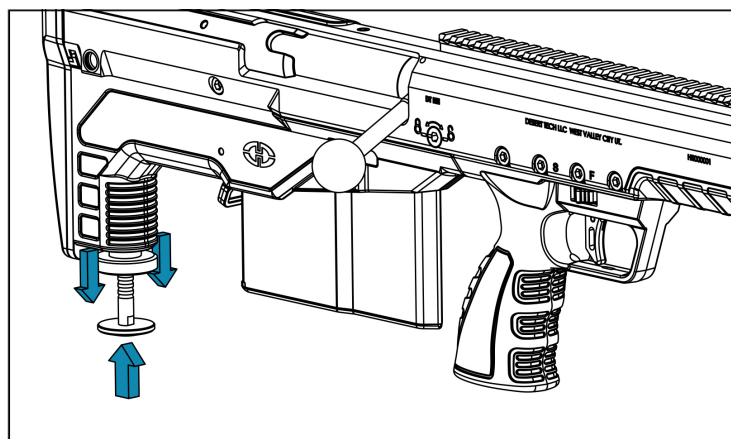
1 Pull down the monopod knob to extract the monopod.



2 For fast adjustment, push up or down the monopod foot, while pulling down the monopod knob.



3 For fine-tune adjustment, turn the monopod knob clockwise to increase elevation, and counter clockwise to decrease elevation.



4 To return to original retracted position, push up on the monopod foot while pulling down the monopod knob.

MAINTENANCE

GREASING/OILING

Bolt assembly does require regular, de-greasing, cleaning and re-greasing for optimal performance. We recommend you use a silicone based grease with PTFE as provided with your HTI replica. Steel parts need greasing to avoid rust which include: bolt head, QD sling attachment and magcatch plates. Avoid oiling or greasing at any time: nozzle, hopup, inner barrel, and the internals of the magazine. Doing so will affect accuracy and efficiency.

CLEANING (BARREL/HOPUP)

Inner barrel and hop up unit must be perfectly clean to ensure optimum performances and accuracy, we suggest you to use a small cotton ball soaked in a non corrosive solution (alcohol or plastic/rubber friendly degreasing chemical) and push it through the inner barrel with a plastic rod from muzzle to hop up. Repeat this operation with a new soaked cotton ball until this one remains clean. We advise you to perform this operation on this airsoft gun before first use.

STORAGE

After use, remove all the bbs from the magazine to relieve pressure on the magazine spring. Make sure the feeding tube is empty. If so, shoot in a safe direction to make sure the hopup chamber is empty. For long term storage, we recommend you to remove the bolt assembly from your replica to relieve pressure on hopup internal orings, ensuring long lasting air seal, and long lasting spring force.

OPTIONAL PARTS & ACCESSORIES

SPRINGS

SBA-SPR-20	HTI 40 Newton spring
SBA-SPR-21	HTI 60 Newton spring
SBA-SPR-22	HTI 90 Newton spring
SBA-SPR-23	HTI 110 Newton spring
SBA-SPR-24	HTI 125 Newton spring
SBA-SPR-25	HTI 155 Newton spring

MAGAZINE

SBA-MAG-10	magazine - black - steel
SBA-MAG-11	flexible follower - 5 pcs.
SBA-PCH-03BK	magazine pouch - black
SBA-PCH-03FDE	magazine pouch - FDE
SBA-PCH-03OD	magazine pouch - OD

TRIGGER GROUP

SBA-TRG-02	trigger - dual stage - classic
SBA-TRG-03	trigger - dual stage - speed
SBA-TRG-04	trigger - dual stage - match
SBA-TGS-01	trigger sear
SBA-PTS-02	piston sear

BARREL & MUZZLE DEVICES

SBA-OBL-30	barrel - 29" fluted - .50 BMG
SBA-SIL-10	Elite Iron ALPHA .50 dummy silencer
SBA-SIL-11	replacement foam for SIL-10
SBA-SIL-12	M25x1.5 ♀ to M14x1 CCW ♂ adapter
SBA-SIL-13	M25x1.5 ♂ to M14x1 CCW ♀ adapter
SBA-FHD-05	muzzle brake - .50 BMG

SCOPE MOUNT

SBA-SMT-01	DTSM replica with 25/30 mm adapters
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HOPUP

SBA-HOP-06	FAST hopbar & pin
SBA-HOP-14	hopup + SBA-HOP-21
SBA-HOP-15	FAST hopup + SBA-HOP-21
SBA-HOP-20	flat rubber 50° + nub
SBA-HOP-21	flat rubber 60° + nub
SBA-HOP-22	flat rubber 70° + nub
SBA-HOP-23	flat rubber 80° + nub
SBA-HOP-24	SBA-HOP-20 + 21 + 22 + 23
SBA-HOP-25	nub - 2 pcs.

CHASSIS PARTS & ACCESSORIES

SBA-BBT-04	feeding tube
SBA-ORG-02	oring set
SBA-SST-02	screw set
SBA-RAL-03	QD mount for handguard
SBA-RAL-04	handguard rail - short - 3 pcs.
SBA-RAL-05	handguard rail - long - 1 pc.
SBA-STK-20BK	HTI spare Nylon stock black
SBA-STK-20FDE	HTI spare Nylon stock FDE
SBA-STK-21	HTI dust cover

BOLT

SBA-BKB-01	bolt knob - tactical
SBA-BKB-02	bolt knob - match
SBA-BKB-03	bolt knob - operator
SBA-BSG-10	spring guide
SBA-BPS-20	piston
SBA-CYL-10	cylinder
SBA-BTH-10	bolt head
SBA-SPW-02	spring guide preload washers - 5 pcs.

