



TIBERIUS
ARMS

MAGAZINE & HOPPER-FED PAINTBALL RIFLE

T4.1



TIBERIUS ARMS TECHNICAL MANUAL



TECHNICAL MANUAL
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ARMS

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WARNING: This is not a toy. Misuse may cause serious injury or death. Eye protection designed specifically for paintball must be worn by the user and persons within range. Recommend 18 years or older to purchase. Persons under 18 must have adult supervision. READ OWNER'S MANUAL BEFORE USING.

WARNING/LIABILITY STATEMENT

This marker is not a toy and is surrendered by Tiberius Arms, Inc., with the understanding that the purchaser assumes all liability from unsafe handling or any action that constitutes a violation of any applicable laws or regulations. Tiberius Arms, Inc. shall not be liable for personal injury, loss of property or life resulting from the use of this product under any circumstances, including any intentional, reckless, negligent or accidental discharges.

All information contained in this manual is subject to change without notice. Tiberius Arms, Inc., reserves the right to make changes and improvements to products without incurring any obligation to incorporate such improvements in products previously sold.

If you, as a user, do not accept liability, Tiberius Arms, Inc., requests that you do not use a Tiberius Arms marker. By using this Tiberius Arms marker you release Tiberius Arms, Inc., of any and all liability associated with its use.

WARNINGS

Treat every marker as if loaded. Never look down barrel of a paintball marker. Keep finger off trigger until ready to shoot. Never point marker at anything you do not wish to shoot. Keep barrel blocking device in or on marker's muzzle when not shooting. Always remove paintballs and propellant source before disassembling. After removing propellant source, point marker in safe direction and discharge until marker is degassed. Store marker unloaded and degassed in secure place. Follow warnings listed on propellant source for handling and storage. Do not shoot at fragile objects such as windows. Every person within range must wear eye, face and ear protection designed specifically to stop paintballs. Ensure the top face of the sear and outer rim of the firing bolt are free of oil, grease, or contaminants. Tiberius Arms marker you release Tiberius Arms, Inc., of any and all liability associated with its use.

CONGRATULATIONS

Congratulations on your purchase of the T4.1 Tiberius Arms Marker!

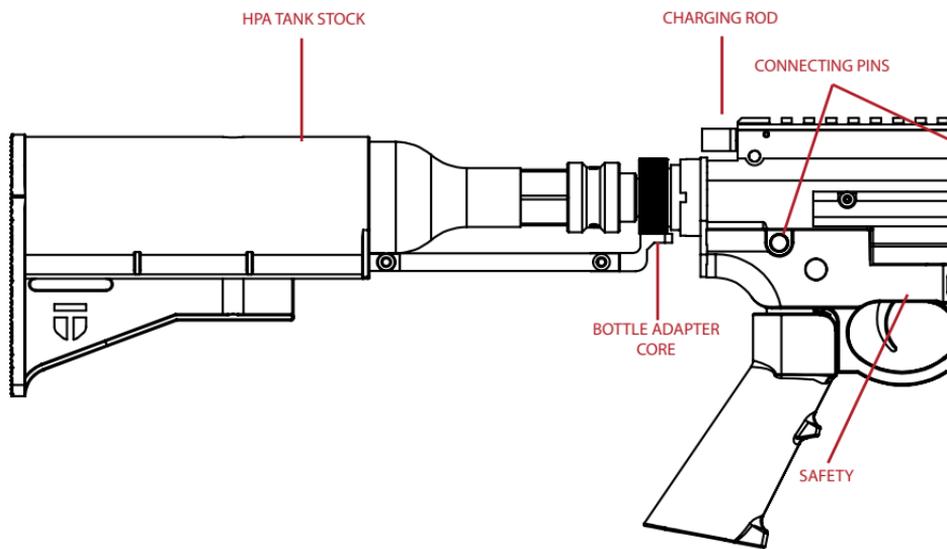
This marker has been designed by Tiberius Arms with reliability, accuracy and durability in mind. When properly handled, the T4.1 will give many years of dependable service.

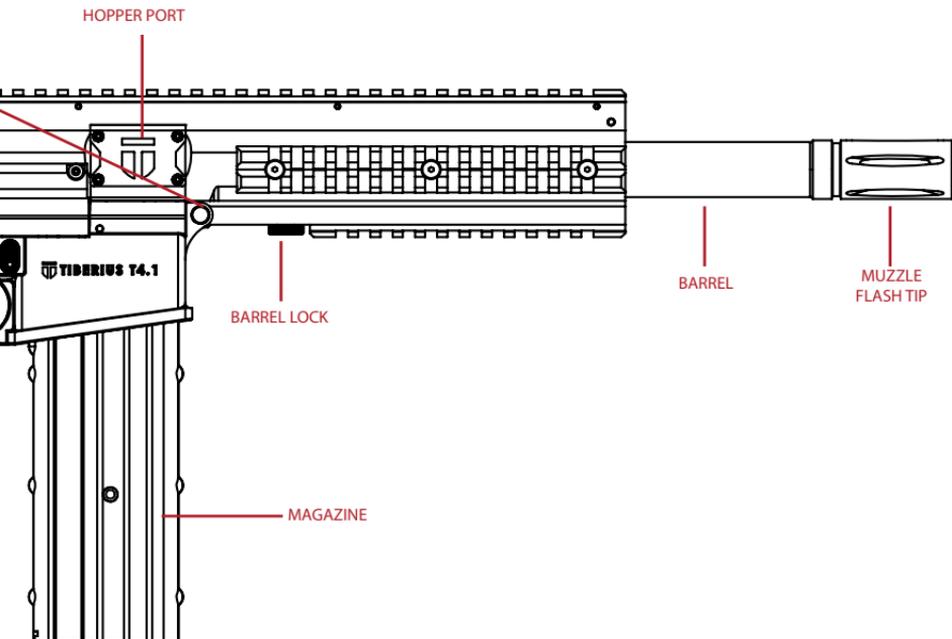
Please take the time to read through this manual and become familiar with the parts, operation, maintenance, and safety precautions before you attempt to load or fire this marker.

By purchasing this marker, you assume total responsibility for its safe and lawful use. You must observe the same safety precautions as you would with any firearm to assure the safety of not only yourself but everyone around you. The operator should use caution at all times when maintaining and firing this marker.

Do not load or fire this marker until you have completely read this manual and are familiar with its mechanical operation and handling characteristics before use.

T4.1 RIFLE DIAGRAM





MODEL SPECIFICATIONS

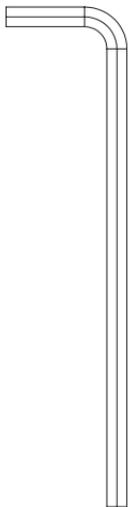
Caliber:	.68	Height:	8 inches
Action:	Semi-auto	Barrel Length:	6.5 inches
Power:	CO2/HPA	Weight:	2.7 lbs.
Length:	11 inches	Magazine cap:	10

UNIVERSAL PACK

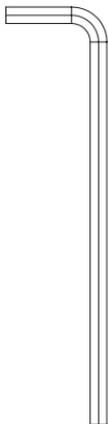
INVENTORY LIST

ALLEN WRENCHES

3/16"



4mm



7/64"



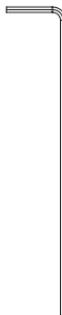
3/32"



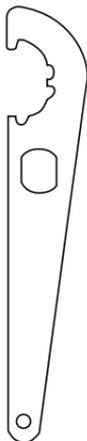
5/64"



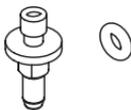
.050"



SPANNER WRENCH



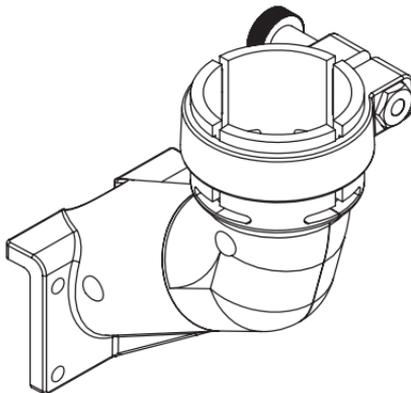
CO2 STEM WITH O-RING



REG BODY PLUG



HOPPER ELBOW



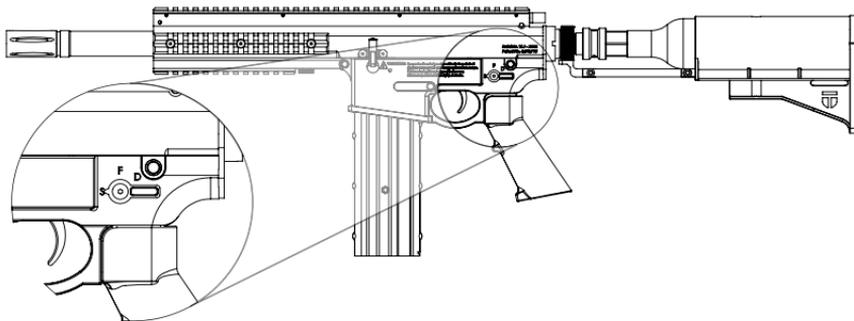
T4.1 OPERATIONAL INSTRUCTIONS

GETTING STARTED

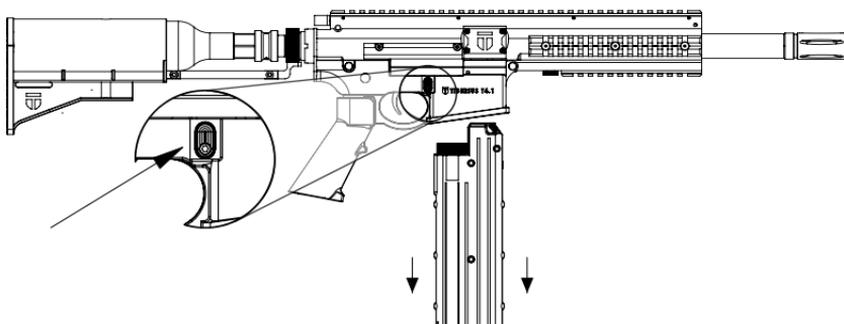
Read this entire manual before using this marker. Keep your marker pointed in a safe direction at all times.

1. **SAFETY** - The safety has 3 Functions: S-Safety, F-Fire, D-Disassemble. Place the T4.1 in safe position by aligning the safety switch with the "S". The safety can be found on the left side of the gun just above the grip.

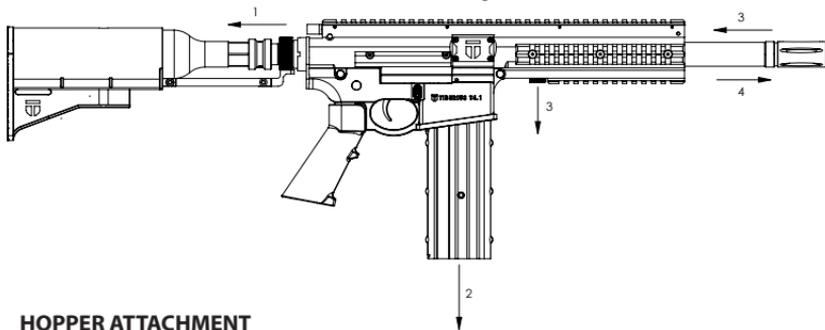
CAUTION: The marker can still be fired in Disassemble mode.



2. **REMOVING MAGAZINE** - Place your hand under the magazine, press the magazine release, and pull the magazine free from the T4.1.



- 3. REMOVING THE BARREL** - (1) Shut off the slide check attached to the tank. (2) Next, remove the magazine from the marker. (3) Slightly push in the barrel and rotate the barrel lock counterclockwise. Then pull down the barrel lock. (4) Your barrel is now free to slide out along the barrel lock track.

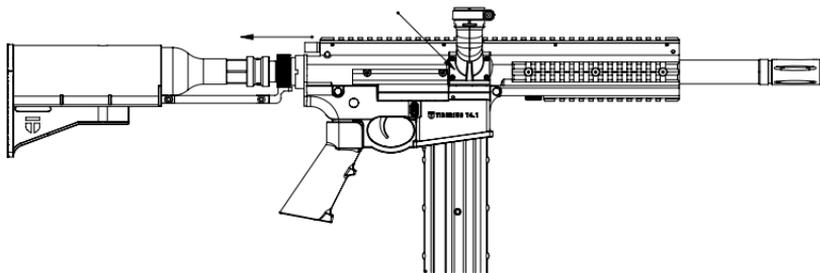


HOPPER ATTACHMENT

- 1. REMOVE HOPPER COVER PLATE** - Remove the Hopper Cover Plate by removing the four (4) Cover Plate Screws, (Top two screws H-S 440 3/4, Bottom two screws H-S 440 3/8) by using a 3/32 Allen Wrench.

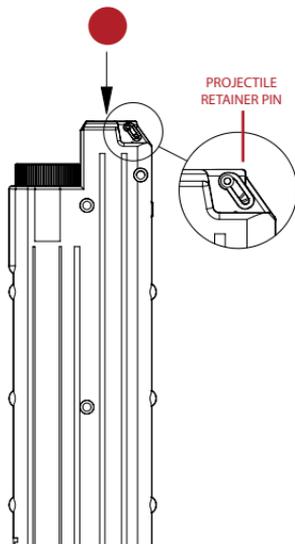


- 2. ROTATE BARREL** - To rotate the barrel pull back on the charging handle located on the rear of the gun above the stock until it locks in the rear position. Leave in this position to shoot using a hopper
- 3. BARREL RELEASE** - Press the release button located on the left side of the marker to switch back to magazine mode.
- 4. ATTACH HOPPER ELBOW** - Attach the Hopper Elbow located in the universal pack that came with the rifle using the four (4) Hopper Screws, also located in the universal pack. These screws require a 3/32 Allen Wrench.



LOADING PAINT

Place 10 projectiles into the magazine from the top. The projectiles will be held in place automatically by the projectile retainer pin.

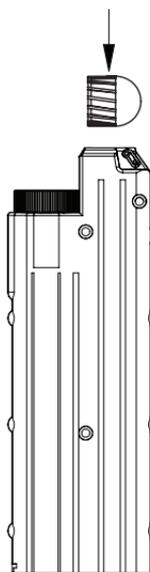


FIRST STRIKE®



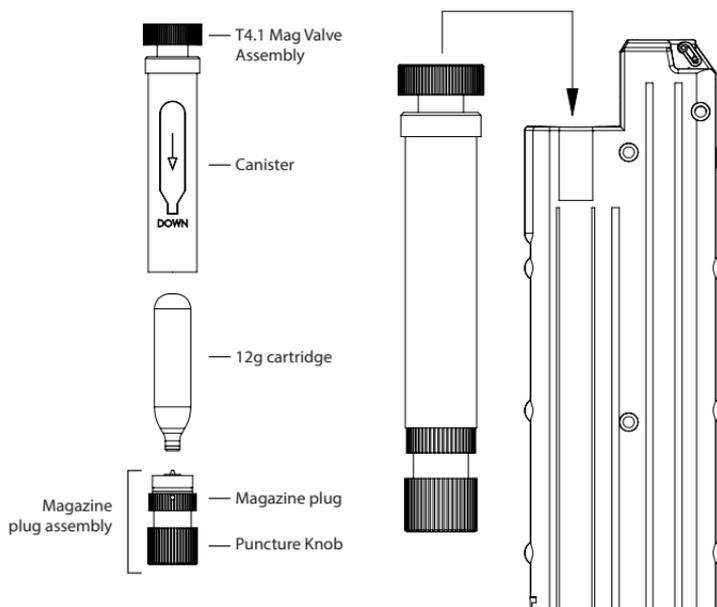
LOADING FIRST STRIKE

Always load First Strike projectiles so rounded nose exits barrel first. Always chronograph with First Strike before use to ensure velocity is below 300 fps.



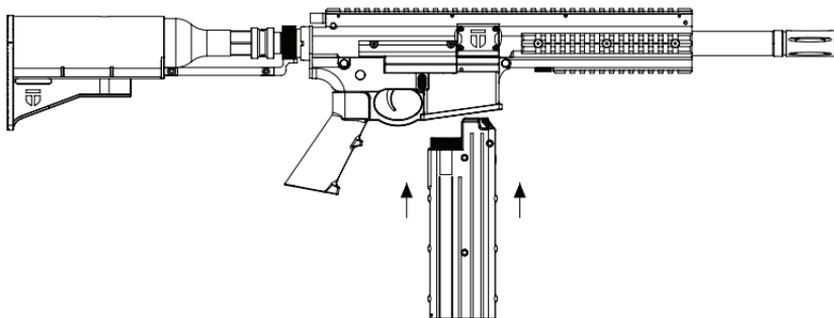
CHARGING THE MAGAZINE

To charge the canister remove it from the magazine. Then remove the magazine plug assembly from the canister. Insert a 12g cartridge as depicted on the canister. Then with the punctured knob screwed out as far as it can be in the magazine plug, attach the magazine plug to the canister.. Finally, tighten the Puncture Nob until the cartridge is punctured.



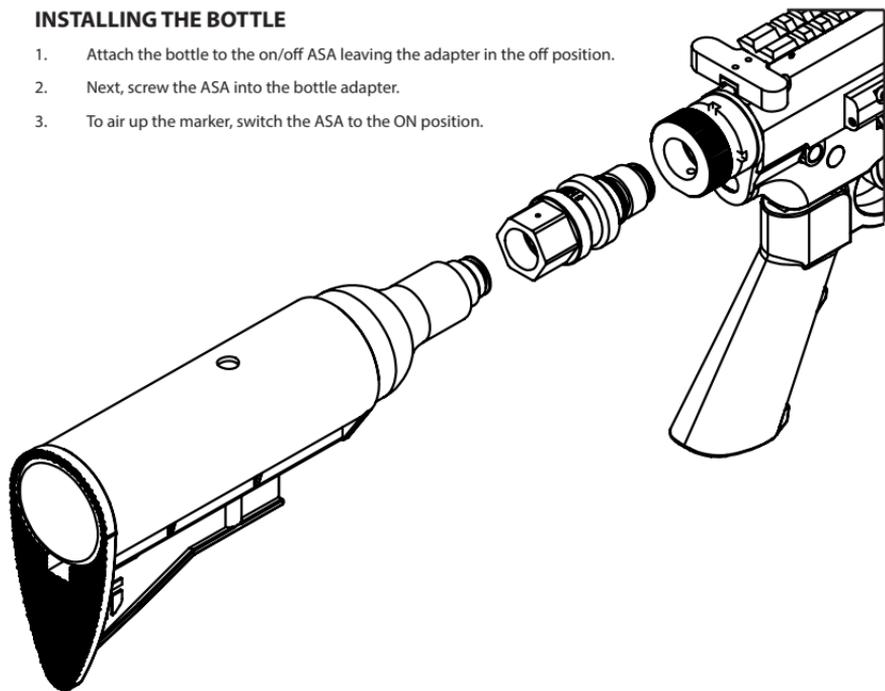
LOADING MAGAZINE

Place the magazine into the magazine cavity in the lower receiver. Once the mag has started into the cavity, seat it completely until has been secured by the magazine release.



INSTALLING THE BOTTLE

1. Attach the bottle to the on/off ASA leaving the adapter in the off position.
2. Next, screw the ASA into the bottle adapter.
3. To air up the marker, switch the ASA to the ON position.



FIRING THE T4.1

1. If the CO2 cartridge has been punctured by the puncture pin and the magazine has been inserted into the gun, then the T4.1 is now ready to fire. Point the T4.1 in a safe direction, rotate the safety switch so that it is aligned with the "F", and pull the trigger.

NOTE - extra magazines can be carried for quick reloads in the field.

UNLOADING THE T4.1

1. Place T4.1 in the safe mode and point in a safe direction. If all projectiles have been fired, place hand under magazine and press magazine release with other hand. Catch magazine so it does not fall on ground. Visually inspect the magazine well to ensure all projectiles are clear from the T4.1. Visually inspect the projectile view port to ensure all projectiles are clear.
2. If all projectiles have not been fired, follow above procedures but ensure that you turn the T4.1 on its side while removing the magazine. The projectile that is in the chamber will be free and can fall on the ground if the T4.1 is kept in a vertical position. Place your hand under the magazine well and capture the loose projectile as you turn the T4.1 vertically.
3. Pull back on the projectile retainer pin to remove the projectiles from the magazine and turn the flip knob base screw counterclockwise to free the CO2 cartridge from the magazine.
4. Your T4.1 should now be free of any projectiles. Verify the T4.1 is on safe and store in a safe and secure location.

SET VELOCITY

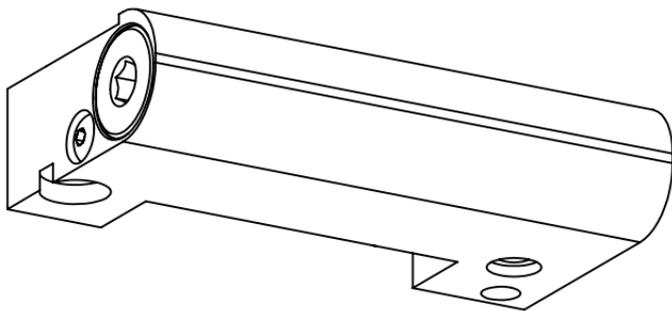
1. Insert a 3/16" Allen Wrench as depicted.
2. To increase velocity, turn clockwise. To decrease velocity turn counter-clockwise.
3. Fire once to clear chamber after each adjustment, then measure velocity of the second shot.

SAFETY TIP: Always measure marker's velocity before playing paintball. Never shoot at velocities in excess of 300 ft/s (91 .44 m/s). Recommended velocity is 270 ft/s.

CO2 STEM INSTALLATION

SOLID CO2 STEM INSTALLATION

1. To replace the Solid CO2 Stem with the CO2 Stem, first remove the lower receiver from the upper receiver.
2. The CO2 Stem can be removed with a 4mm wrench or a small adjustable wrench. Be sure that O-Ring is on the Solid CO2 Stem. DO NOT OVER TIGHTEN onto the Reg.



T4.1 CLEANING & MAINTENANCE

CLEANING

Never perform maintenance on a loaded or pressurized T4.1 marker.

Remove all projectiles and CO2 cartridges from the magazine and marker prior to doing any cleaning or maintenance.

Never use petroleum based cleaning solvents or lubricants.

Do not use cleaning solvents that come in aerosol cans.

To clean the T4.1 marker, remove the barrel as described in the "Operational Instructions".

Use a .68 caliber soft nylon brush or 12 gauge patch tip with a soft cotton cloth to clean the barrel.

Do not place lubricant or water in the barrel of the T4.1. It is designed to be used with the barrel completely dry.

Keep the barrel of the T4.1 dry.

Wipe off any dirt or grime from the outside of the T4.1 with a dry cloth.



OILING THE MARKER

IMPORTANT: Before performing any of the following instructions, remove magazine. Point marker in safe direction and discharge until degassed.

For optimum performance, do the following monthly:

1. Place one drop of oil between trigger release and trigger rotator.
(See Page 28)
2. Remove the regulator spring pad (See page 29) and oil the regulator spring pad O-Ring.
3. Remove the engine assembly (See page 17) and lightly grease the AC Cap O-Ring.
4. Place one drop of oil on CO2 O-Ring found at top of CO2 Valve and Magazine (See page 21).

OPERATIONAL CONSIDERATIONS

If the CO2 cartridge is punctured in a magazine, it should be replaced if the T4.1 is not used for 24 hours. The operational temperature range for the T4.1 marker is 37° F to 120°F.

WARRANTY AND REPAIRS

Tiberius Arms Inc is dedicated to providing you with the quality support necessary for the utmost satisfaction of that technology. Tiberius Arms products are crafted with the finest materials and designed for trouble-free performance. We warrant that this marker is found free from defects in materials and workmanship for a period of 1 year from the original date of purchase. Unauthorized modifications alterations, neglect, or abuse of this product voids any warranty. The warranty covers the parts and labor required to repair the product to proper working order. To register your marker for warranty please fill out the included warranty card or register online at www.tiberiusarms.com

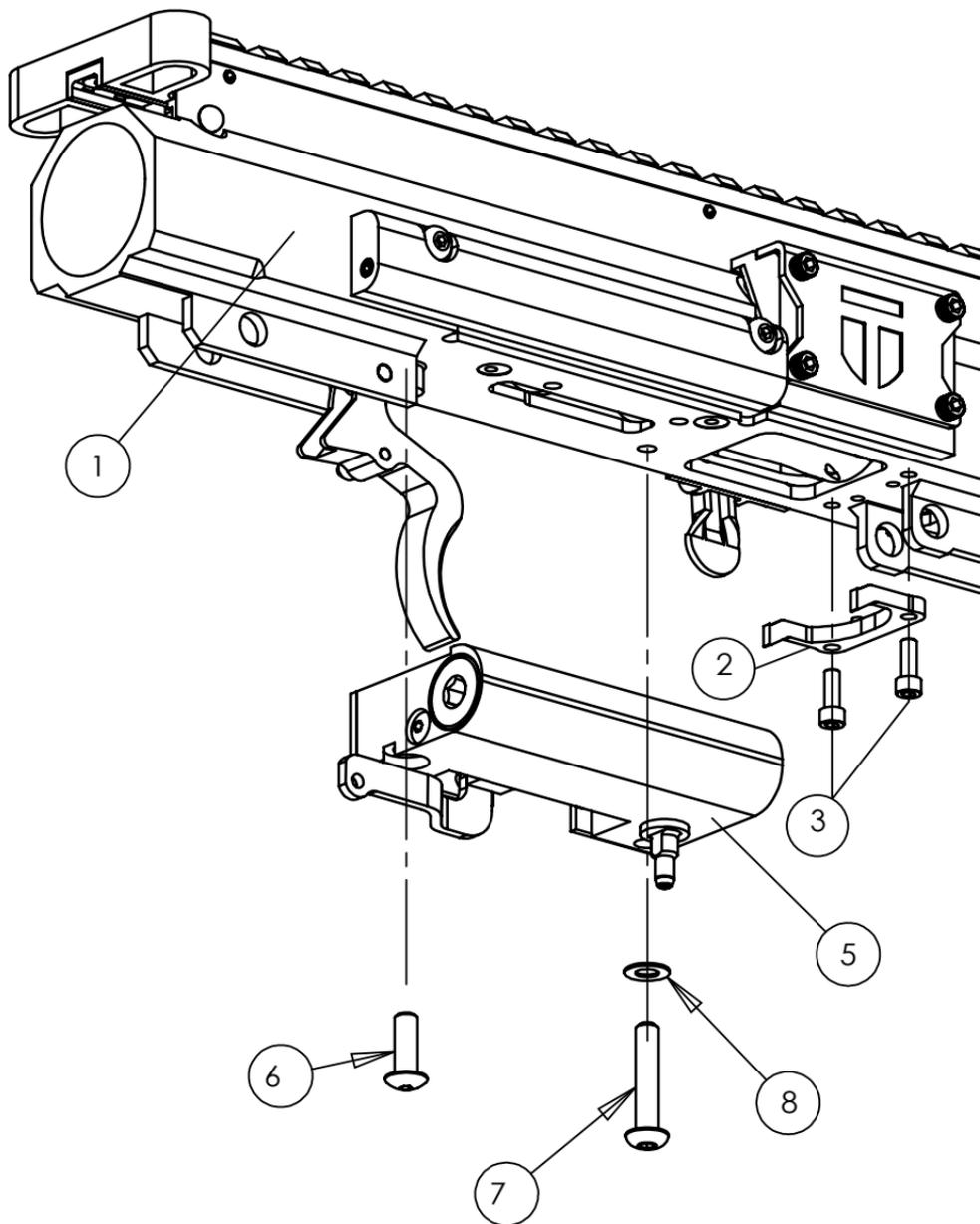
In the event warranty or other non-warranty related repairs are required, send the product(s) to Tiberius Arms Inc. We strive to complete the necessary repair work within a reasonable amount of time and return it to you via the best shipping method. On claims submitted as outlined, Tiberius Arms Inc. will repair or replace, free of charge, any of its markers that have failed through defect in material or workmanship. For assistance with warranty and repair, call 260-478-2500.

For warranty and non-warranty repair, ship the product(s) to Tiberius Arms Inc. with postage or delivery charges prepaid. Include a brief statement regarding the requested repair, point of contact, return address, and telephone number where the point of contact may be reached during normal business hours. Ship to:

Tiberius Arms Inc.
ATTN: Warranty
2717 Ferguson Road
Ft. Wayne, IN. 46809

Note: Always unload and remove CO2 or HPA bottles before shipping a marker.

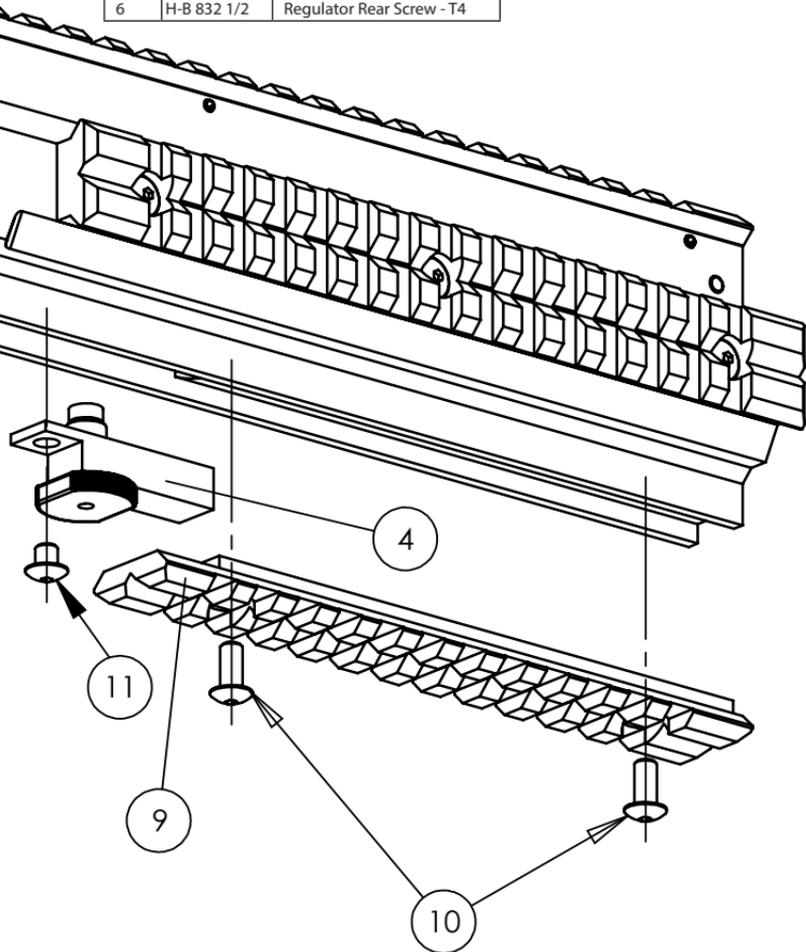




UPPER RECEIVER ASSEMBLY

ITEM NO.	PART NUMBER	NAME
1	42-2046	Upper Receiver
2	T4-2943	Release Fork - T4
3	H-S 440 5/16	Release Fork Screws
4	P4-1940	Barrel Catch Assembly
5	41-2540	Assembled Regulator
6	H-B 832 1/2	Regulator Rear Screw - T4

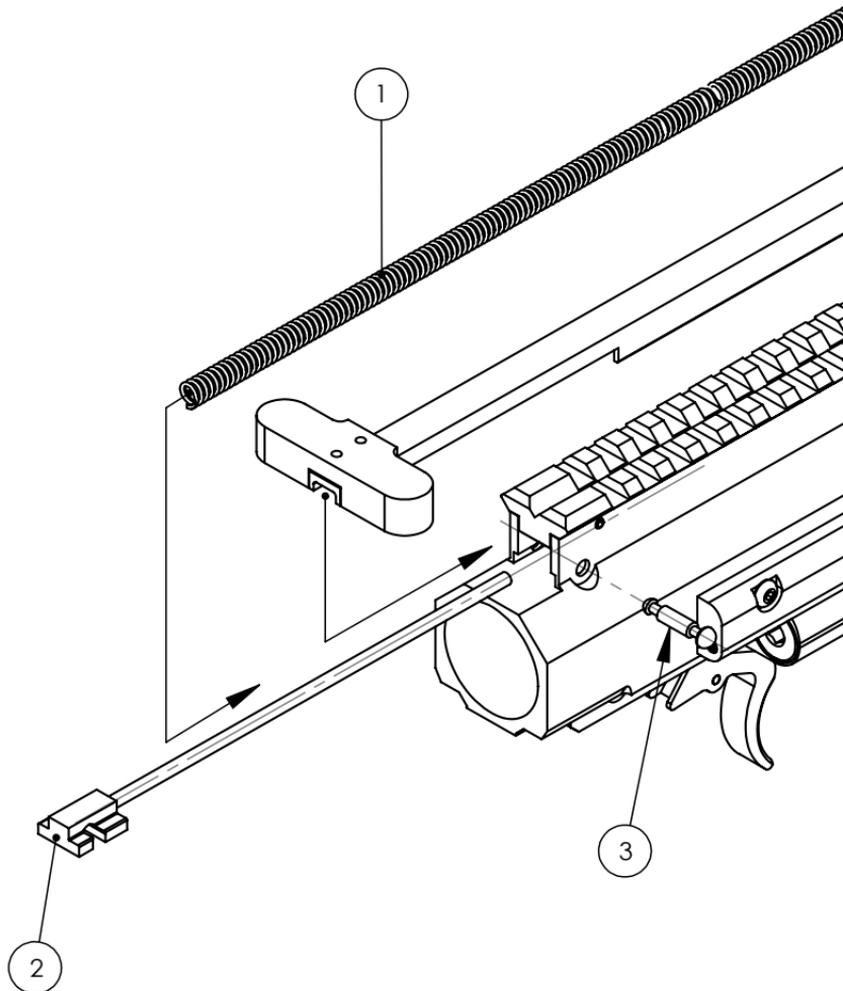
ITEM NO.	PART NUMBER	NAME
7	H-B 832 7/8	Reg Body Screw
8	H-WSHR 8 T	Reg Bod Tooth Washer
9	T4-1847	Lower Tac Rail
10	H-B 832 5/16	Tac Rail Screw
11	H-B 832 1/4	Barrel Catch/Lock Screw

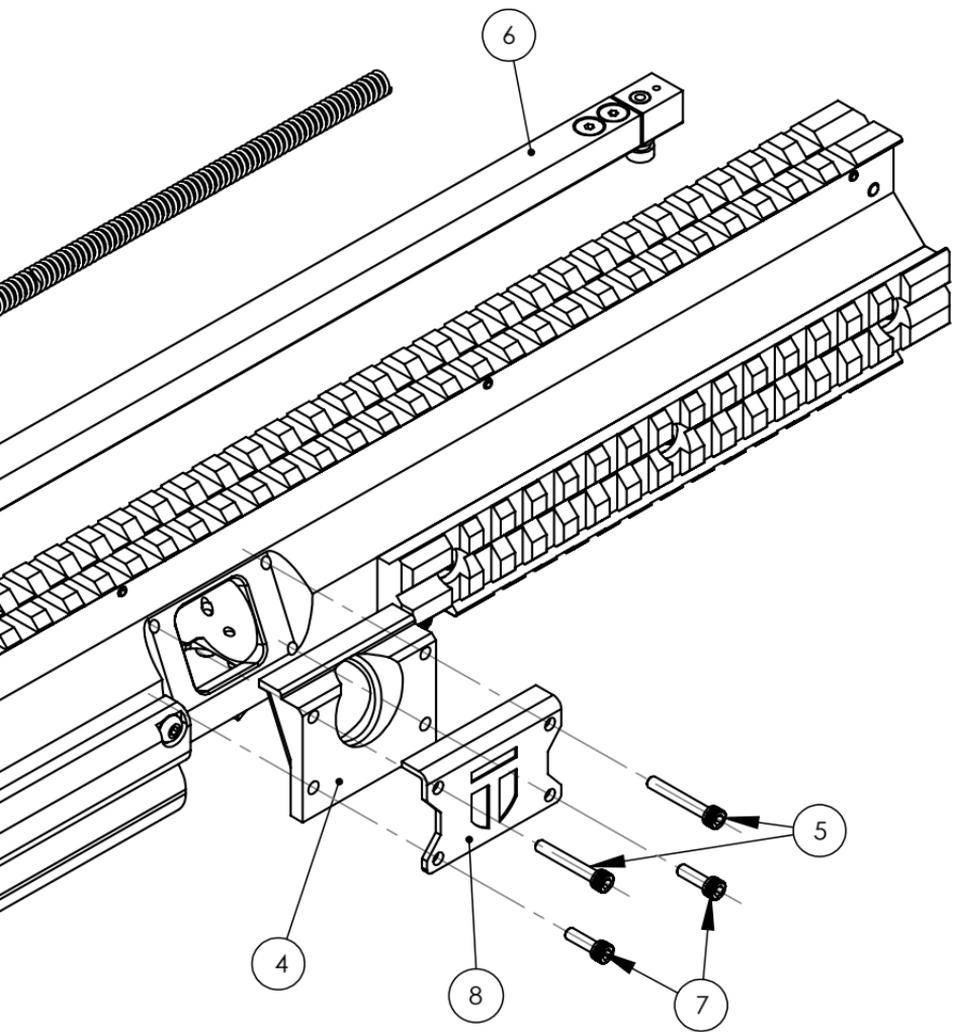


UPPER RECEIVER ASSEMBLY

ITEM NO.	PART NUMBER	NAME
1	SPRG49	Charging Handle Spring
2	T4-1745	Stop Block
3	T4-1746	Stop Block Pin
4	T4-1946	Hopper Converter

ITEM NO.	PART NUMBER	NAME
5	H-S 440 3/4	Hopper Converter Screw
6	T4-1740	Charging Handle Assembly
7	H-S 440 3/8	Lower Hopper Converter Screw
8	MR-1973	Hopper Cover Plate

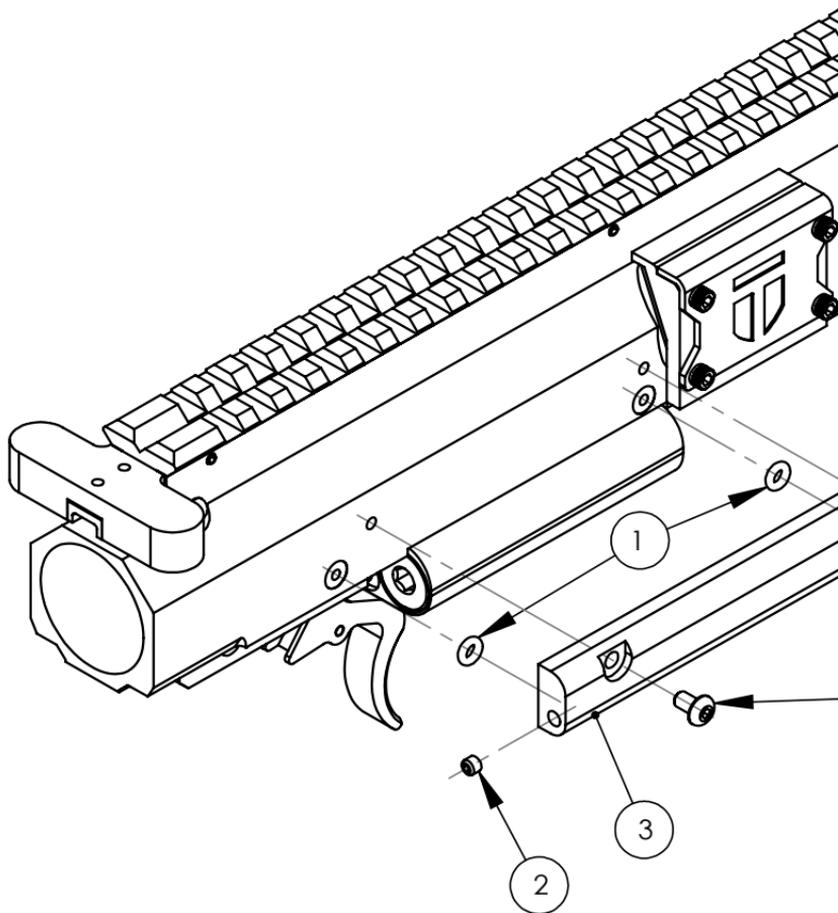


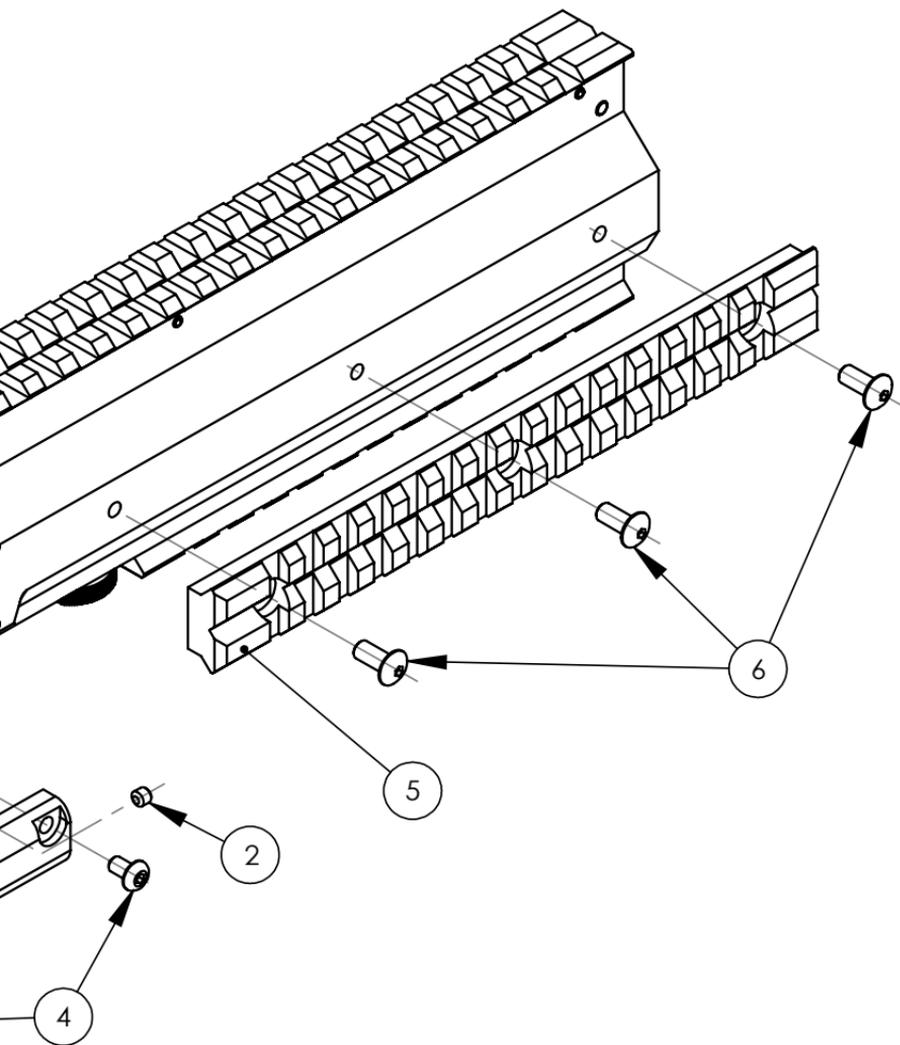


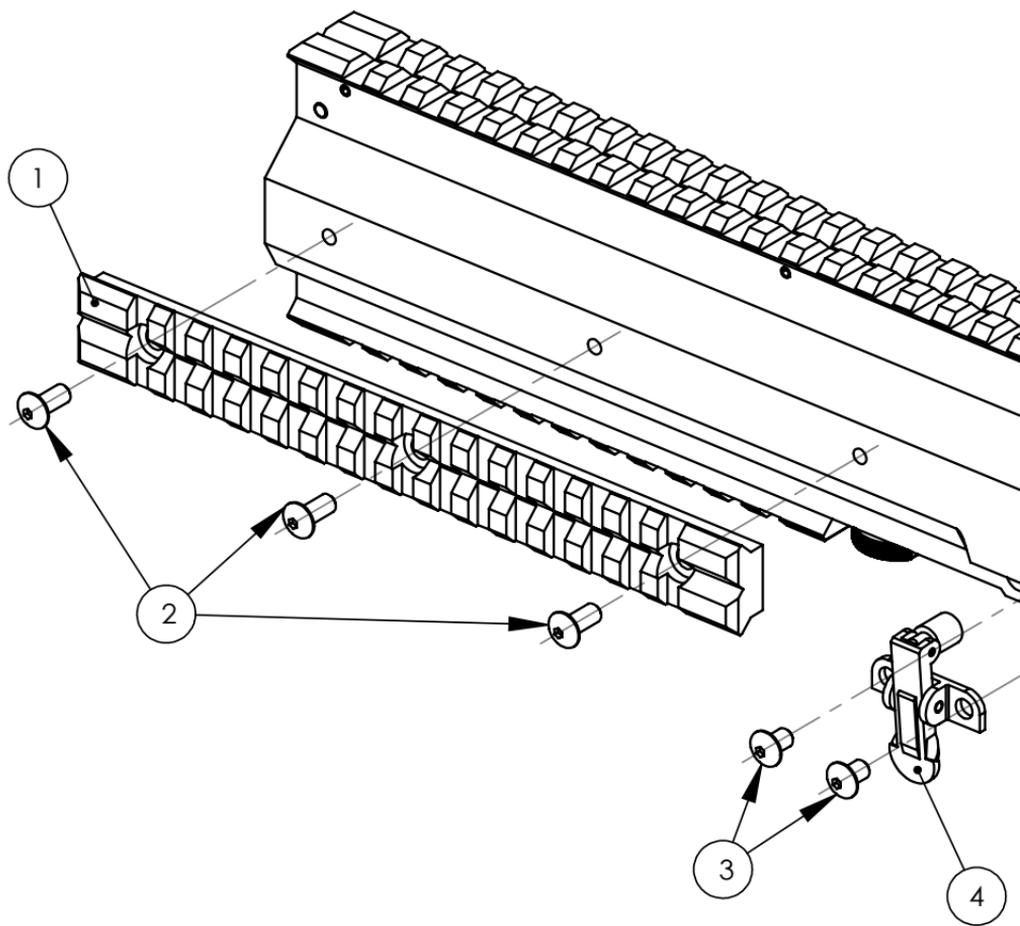
UPPER RECEIVER ASSEMBLY

ITEM NO.	PART NUMBER	NAME
1	ORNG 006-B90	Reg Sealing O-Ring
2	H-SS5 632 1/8	Alternate Air Sealing Screw
3	42-2041	Alternate Air Attachment

ITEM NO.	PART NUMBER	NAME
4	H-B 632 3/8	Alternate Air Screw
5	T4-1848	Side Tac Rail
6	H-B 832 5/16	Tac Rail Screw

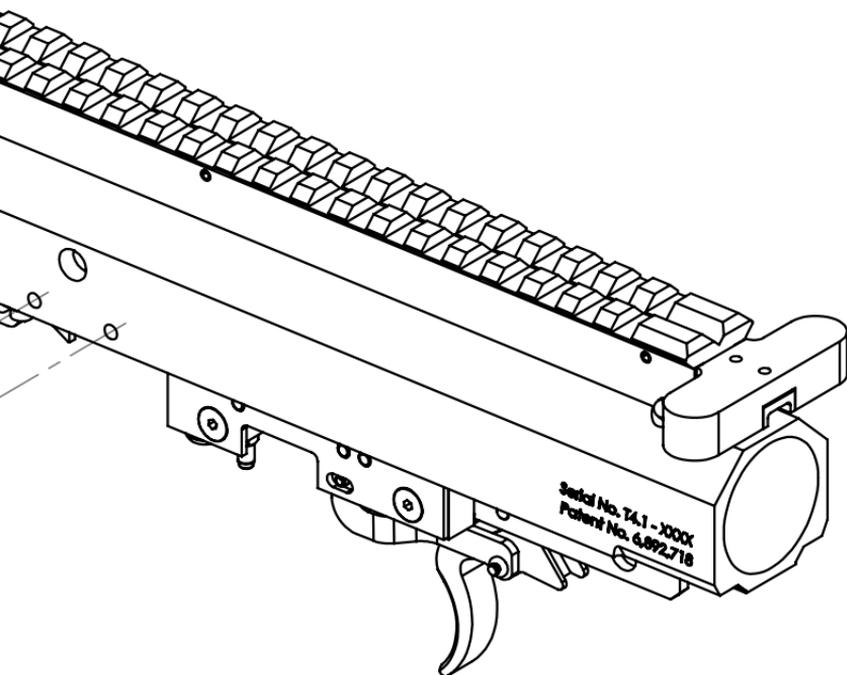






UPPER RECEIVER ASSEMBLY

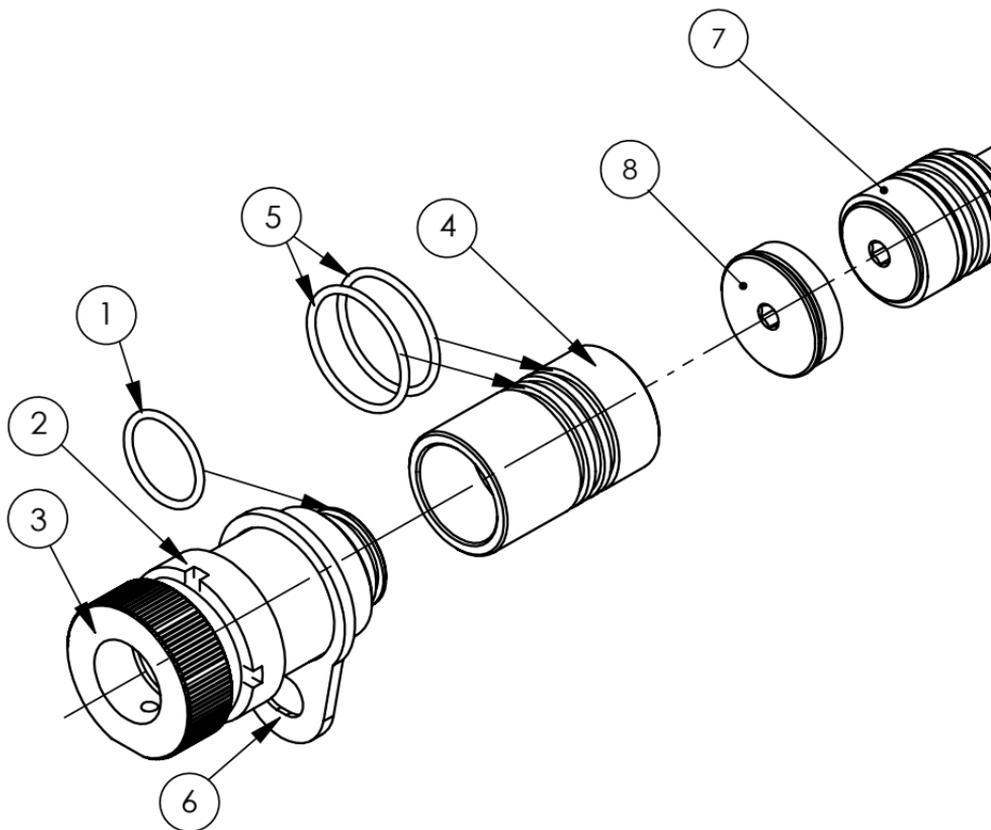
ITEM NO.	PART NUMBER	NAME
1	T4-1848	Side Tac Rail
2	H-B 832 5/16	Tac Rail Screw
3	H-B 832 1/4	Barrel Catch Screws
4	T4-1940	Barrel Catch Assembly

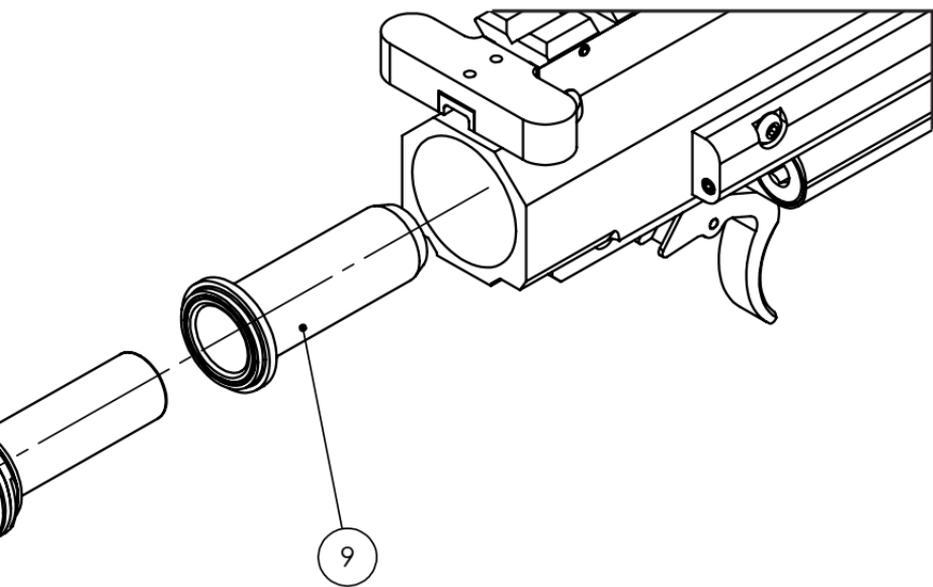


UPPER RECEIVER ASSEMBLY

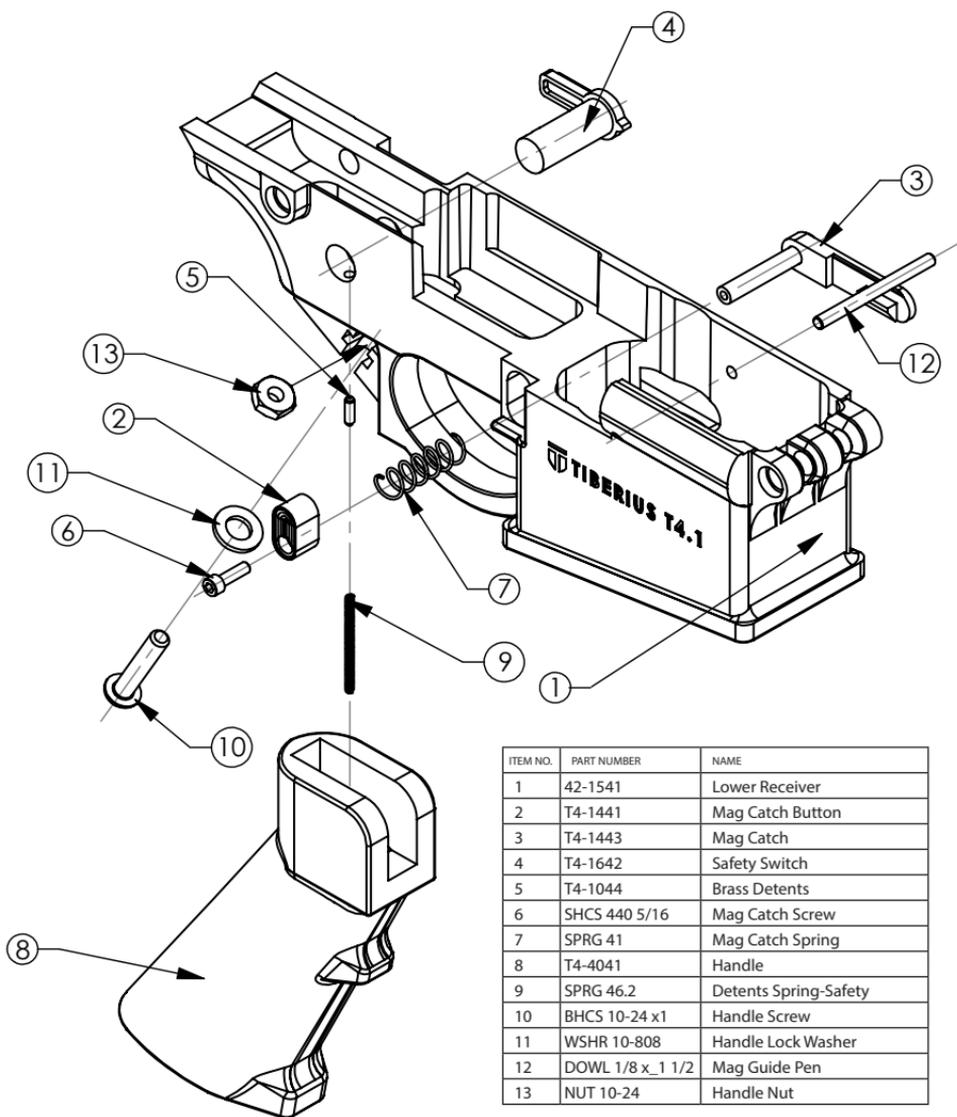
ITEM NO.	PART NUMBER	NAME
1	ORNG 018-P70	Bottle Adapter O-Ring
2	AC-4057	Stock Ring
3	42-2143	Bottle Adapter
4	42-2141	Bottle Adapter Core
5	ORNG 022-B70	Adapter Core O-Ring

ITEM NO.	PART NUMBER	NAME
6	AC 4056	Stock Plate
7	41-2100	T4.1 Engine
8	81-2105	Gun Body Cap
9	41-2240	T4.1 Firing Bolt





LOWER RECEIVER ASSEMBLY

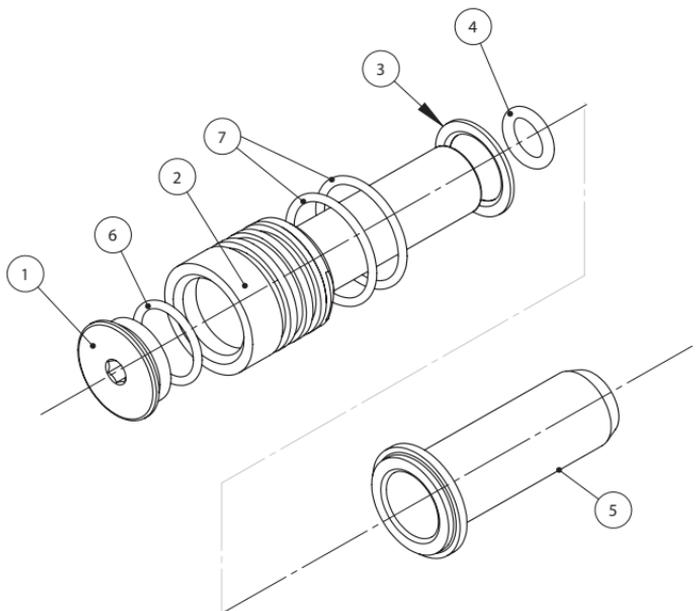
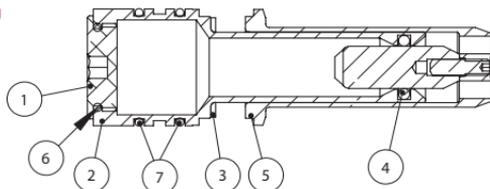
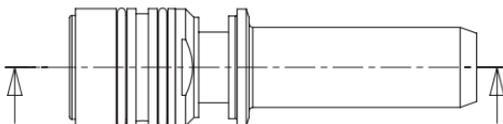


ITEM NO.	PART NUMBER	NAME
1	42-1541	Lower Receiver
2	T4-1441	Mag Catch Button
3	T4-1443	Mag Catch
4	T4-1642	Safety Switch
5	T4-1044	Brass Detents
6	SHCS 440 5/16	Mag Catch Screw
7	SPRG 41	Mag Catch Spring
8	T4-4041	Handle
9	SPRG 46.2	Detents Spring-Safety
10	BHCS 10-24 x1	Handle Screw
11	WSHR 10-808	Handle Lock Washer
12	DOWL 1/8 x_1 1/2	Mag Guide Pen
13	NUT 10-24	Handle Nut

ENGINE & FIRING BOLT ASSEMBLY

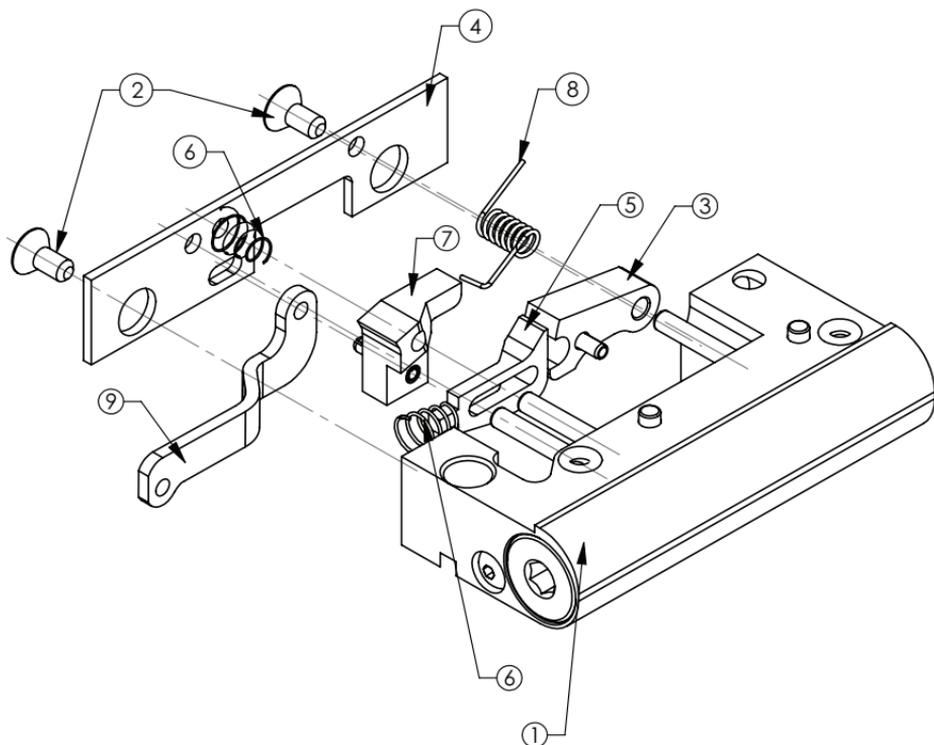
ITEM NO.	PART NUMBER	NAME
1	81-2101	Air Chamber Plug
2	81-2104	Air Chamber
3	45-2107	AC Shock Absorber
4	ORNG 110-P70	AC Cap O-Ring
5	41-2240	T4.1 Firing Bolt
6	ORNG 019-B70	AC Plug O-Ring
7	ORNG 020-B70	AC OD O-Ring

Note: Do not attempt to disassemble bolt and firing pin (Item 5). The alignment is set by factory fixtures and cannot be reassembled outside the factory.



TRIGGER GROUP

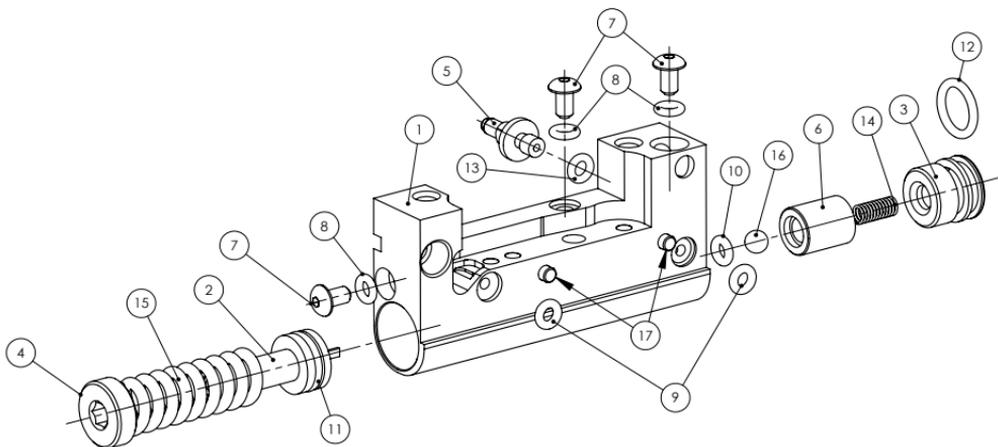
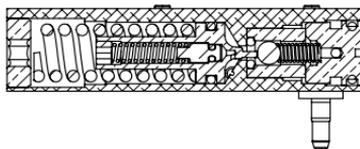
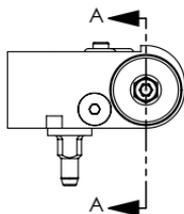
ITEM NO.	PART NUMBER	NAME
1	41-2541	Regulator Body-T4
2	H-F 832 3/8	Trigger Cover Screw
3	45-2402	Sear
4	45-2401	Trigger Cover Plate
5	45-2405	Release
6	SPRG10	Release/Rotator Spring
7	45-2404	Rotator
8	SPRG02	Sear Spring
9	T4-2448	T4 Linkage



REGULATOR

ITEM NO.	PART NUMBER	NAME
1	41-2541	Regulator Body-T4
2	81-2502	Regulator Spring Pad Complete
3	81-2505	Regulator End Screw
4	45-2506	Regulator Adjuster
5	81-2507	CO2 Stem
6	45-2508	Reg Valve Sleeve
7	BHCS 6-32x3/16	Regulator Sealing Screws
8	ORNG 006-B90	Reg Sealing/Reg Body O-Ring

ITEM NO.	PART NUMBER	NAME
9	ORNG 006-B90	Reg Sealing/Reg Body O-Ring
10	ORNG 006-P90	Regulator Valve O-Ring
11	ORNG 012-P70	Regulator Spring Pad O-Ring
12	ORNG 012-B70	Regulator End Screw O-Ring
13	ORNG 006-B70	CO2 Stem O-Ring
14	SPRG13	Regulator Valve Spring
15	SPRG 05	Regulator Spring
16	H-BALL 316	Regulator Valve Ball



NOTE

O-Ring #10 is the same size and color as O-Ring #6 on Page 30. This O-Ring is harder than the O-Ring on Page 30.

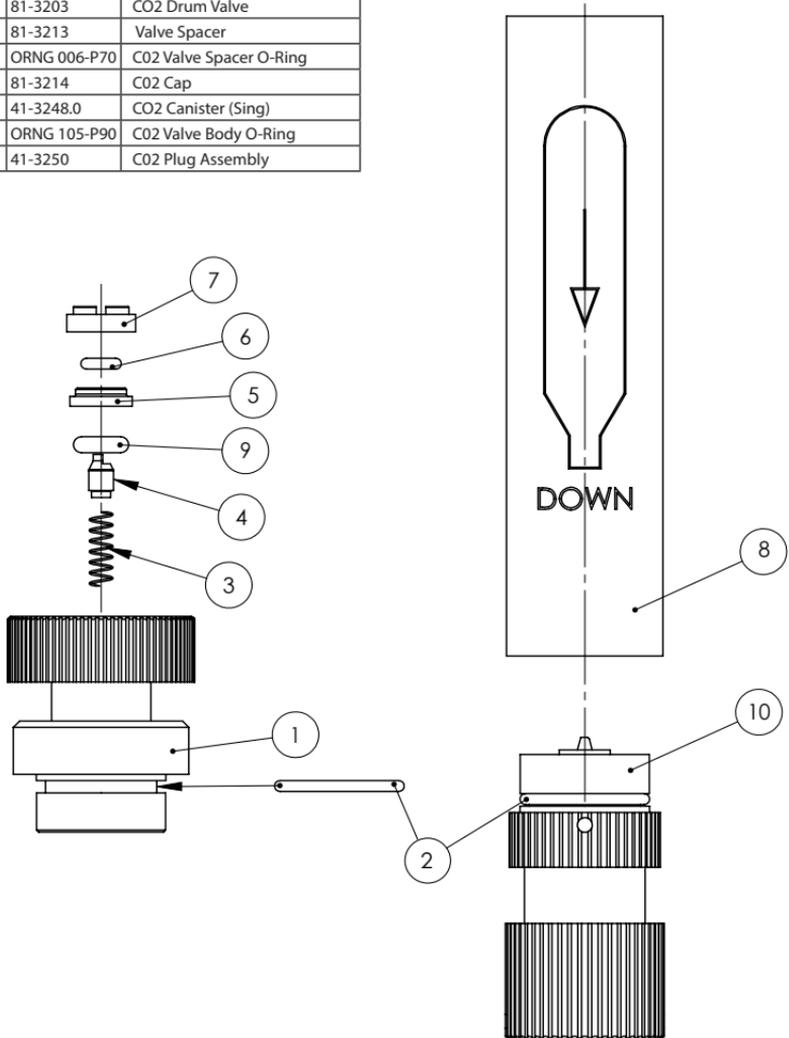
Relief valve is preset at the factory and is not user serviceable. Consult factory or authorized service center for assistance.

CO2 VALVE HOUSING

NOTE

O-Ring #6 is the same size and color as O-Ring #10 on Page 29. This O-Ring is softer than the O-Ring on Page 29.

ITEM NO.	PART NUMBER	NAME
1	41-3241	Valve Housing
2	ORNG 017-P70	Valve Housing Sealing O-Ring
3	SPRG 03	CO2 Valve Spring
4	81-3203	CO2 Drum Valve
5	81-3213	Valve Spacer
6	ORNG 006-P70	CO2 Valve Spacer O-Ring
7	81-3214	CO2 Cap
8	41-3248.0	CO2 Canister (Sing)
9	ORNG 105-P90	CO2 Valve Body O-Ring
10	41-3250	CO2 Plug Assembly



TROUBLESHOOTING

PAINT BREAKAGE

If you experience more than a small number of broken paintballs, then there are 4 things to check:

1. First, be sure that the marker is free of broken paintballs and other debris.
2. Second, make sure that the barrel is locked in its correct position, and that both detents are installed so that they catch a projectile as it enters the breach.
3. Third, make sure that the red First Strike™ spring is not installed in the magazine (See page 10)
4. Fourth, make sure the marker is set to a reasonable velocity (never over 300 ft. per sec.)

MAGAZINE

If your magazine is leaking CO2, it is coming from one of three seals:

Valve Housing Seal (#2 - Page 30) - CO2 leaks out the top or bottom of the canister

CO2 Valve Spacer O-Ring (#6 - Page 30) - CO2 leaks when the magazine is inserted in marker

Housing O-Ring (#9 - Page 30) - CO2 leaks from the top of the magazine while the magazine isn't inside the gun. If the magazine is leaking slightly from this area, try inserting and ejecting into the marker 2-3 times. This may seat the valve and eliminate the leak.

BOLT PUSH

When re-assembling the marker be sure to push the bolt forward before installing the regulator. (See note on page 27.) To push the bolt the barrel and bolt spring must be removed from the marker.



TIBERIUS
ARMS

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