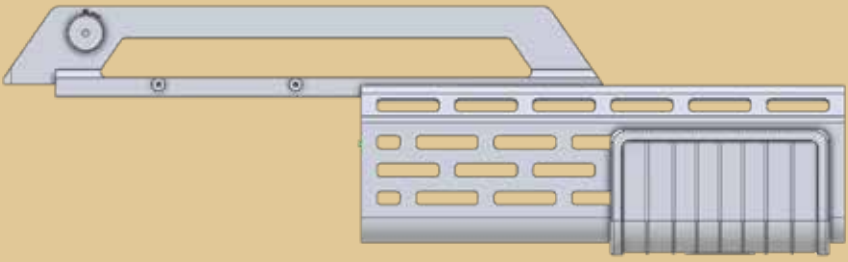
TM-MA-38800

TECHNICAL MANUAL



OPERATOR'S MANUAL
MANTICORE ARMS
RIPLEY RAIL
MA-38800

HEADQUARTERS
TERRAN MILITARY FORCES
JANUARY 2126

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SCAN QR CODE TO VIEW VIDEOS ON INSTALLATION AND USE OF THE RIPLEY RAIL

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All products have a limited lifetime warranty against material defects and workmanship for a period of (1) year from the date of purchase.

This warranty does not cover cosmetic wear, malevolent abuse, modification, improper installation, or improper use of the product.

SPECIFICATIONS

Manufacturer: Manticore Arms, Inc.
Product: Ripley Rail
SKU: MA-38800

Length: 17 inches (432 millimeters)
Weight: 1 pound 7.3 ounces (0.66 kilograms)
Sight Radius: 9.25 inches (235 millimeters)
Sight Height Over Bore: 2.6 inches (66 millimeters)
(Standard AR-15 iron sight height over bore)
Materials:
Carry Handle: 6061 T6 Aluminum
Forend: 6061 T6 Aluminum
Foregrip: Polymer
Clamping Bar: Steel

Carry Handle Finish:
H-232 Magpul O.D. Green Cerakote [or]
F-102 Carbon Black Cerakote

Forend Finish:
H-337 Platinum Grey Cerakote

Compatability:
The Ripley Rail will fit all AR-15 firearms with an A3 upper receiver and a rifle caliber barrel of at least 10.3” in length

(blowback pistol caliber barrels need to be at least 11” in length due to measuring differences in the chamber/barrel extension area)

NOTE: The Ripley Rail can fit a number of firearms with at least 7.125 inches of upper receiver picatinny rail, and will clear a barrel nut of up to 1.6” diameter.

The Ripley Rail can theoretically be mounted on firearms with more than 7.125” of upper receiver rail (i.e. 308 caliber AR-10, etc) but the rear sight will be forward of the rear of the upper receiver.

DIAGRAM OF COMPONENTS AND FEATURES

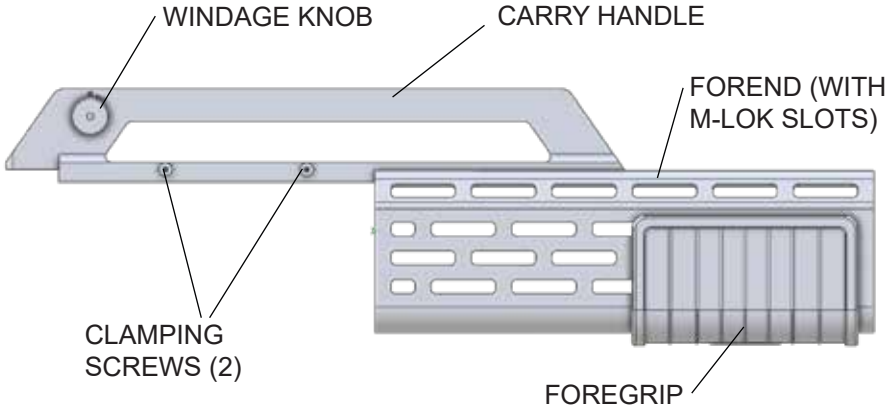

FIG. 1: RIGHT SIDE VIEW

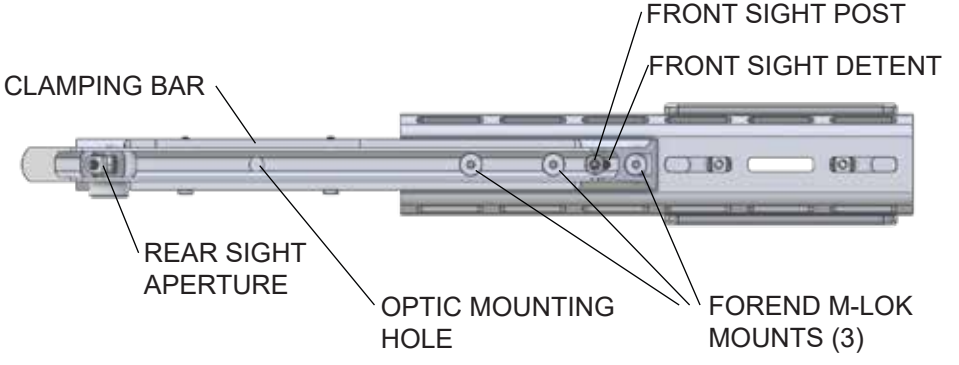

FIG. 2: TOP VIEW

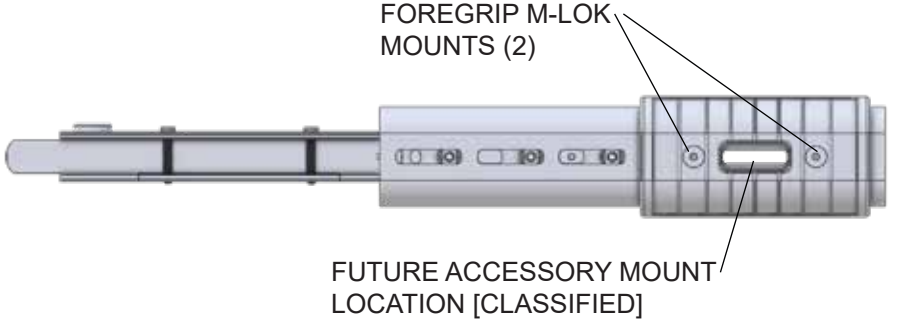

FIG. 3: UNDERSIDE VIEW

INSTALLATION

WARNING: ALWAYS VERIFY YOUR FIREARM IS UNLOADED PRIOR TO INSTALLING ANY PARTS!

The following is inlcuded in the Ripley Rail kit:
(1) Ripley Rail assembly
(1) clamp bar (color matched to carry handle)
(2) 8-32 tpi x 1" long low profile socket head clamping screws
(1) 1/8" allen wrench (for M-LOK screws)
(1) 5/64" allen wrench (for clamping screws)

You will need the following tools:
A2 front sight adjustment tool or small punch
Tools to remove existing firearm forend or rail, if required

STEP 1:
Remove the magazine from the firearm, pull back on the charging handle and ensure the chamber is clear of live ammunition. Let the charging handle go to the forward position and place the firearm on "SAFE".

STEP 2:
Remove the existing forend from you firearm, if required. You may use the existing forend barrel nut with the Ripley Rail.

STEP 3:
With the clamp bar and clamping screws removed, slide the Ripley Rail onto the upper receiver of the firearm from the front until it is all the way to the rear.

NOTE:
The Ripley rail will clear a standard gas tube and low profile gas block, and should clear all known piston systems with a low profile gas block. If resistance is met, lift the front of the forend while sliding the rail onto the upper receiver. If the rail and forend will not clear the gas block or piston system, please contact Manticore Arms for assistance.

(continued on next page)

INSTALLATION (continued)

STEP 4:
Place the clamping bar in position with the angled edges facing the receiver, and place the 8-32 low head socket head cap screws through the holes on the right side of the carry handle. Use the 5/64" allen wrench to thread the screws into the threaded holes in the clamping bar. Before the screws are fully tightened, push the carry handle forward so the screws are pushed up against the picatinny slots they pass through (this is to use them as a recoil lug). Finish tightening the screws "hand firmly snug." There is no set torque value, and do not overtighten.

NOTE:
Blue loctite or other thread lockers should NOT be necessary.

STEP 5:
The Ripley Rail is now fully installed! You may proceed to zeroing.

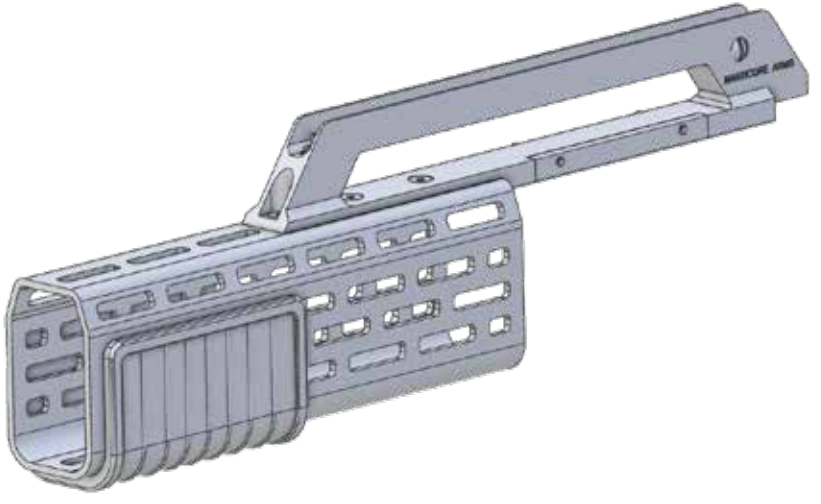

FIG. 4: LEFT FRONT VIEW OF RIPLEY RAIL

OPERATION

IRON SIGHTS

NOTE:
Although the Ripley Rail iron sights can be utilized to hit targets at extended ranges, they are optimized for rapid engagement of large, hostile xenobiological targets at close range.

FRONT SIGHT
The front sight is an A2 style post held in place by a spring loaded detent. The front sight can be adjusted by depressing the detent with an A2 sight tool or small punch and rotating the sight.

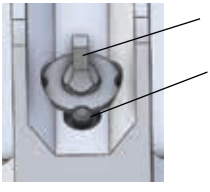

FIG. 5: FRONT SIGHT ASSEMBLY

REAR SIGHT
The rear sight is a flip style dual aperture with a “small” or precision aperture and a “large” or battlesight aperture. In most siutations the precision aperture should be used. At close range or in low light situations the battlesight aperture may be more appropriate. A windage knob to adjust the rear sight left and right is located on the rear right side of the carry handle.

NOTE: In extreme close range the carry handle channel itself may be used for aiming, similar to a shotgun rib. This is effective for windage (horizontal) aiming, but elevation (vertical) point of impact will be very inaccurate.

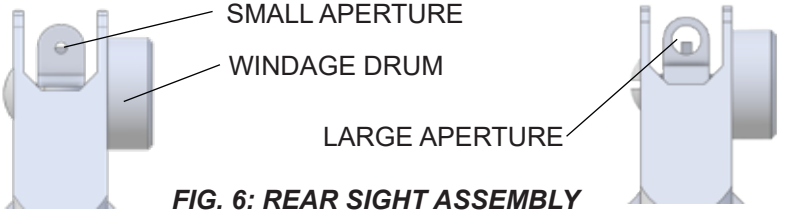

FIG. 6: REAR SIGHT ASSEMBLY

OPERATION

ZEROING THE SIGHTS

STEP 1:
Using an A2 front sight tool or a small punch, turn the front sight until the base is flush with the bottom of the sight channel. Then turn the front sight counter-clockwise to raise it 8 clicks. (The front sight should be close to this adjustment from the factory)

STEP 2:
Flip the rear aperture to the “small” precision aperture. Turn the windage knob counter-clockwise to adjust the rear sight all the way to the left, then turn the knob clockwise to adjust the rear sight 17 clicks to the right. This is the initial windage zero. (The rear sight will be close to this adjustment from the factory)

STEP 3:
Fire 5 rounds at a target, typically recommended at 25 meters. Note the center of the group, and how far off it is from the center of the target.

STEP 4:
Each quarter turn (one click) of the front sight clockwise will raise the point of impact 0.72” at 25 meters, or 2-7/8” at 100 meters. Turning the front sight counter clockwise will lower it the same amount. Adjust the front sight as necessary.

STEP 5:
Each turn (one click) of the windage knob clockwise will move the point of impact right 0.58” at 25 meters, or 2-1/4“” at 100 meters. Turning the windage knob counter clockwise will adjust the point of impact left the same amount. Adjust the rear sight as necessary.

STEP 6:
Fire another 5 rounds and confirm zero. Adjust sights again as necessary. Your Ripley Rail is now zeroed!

OPERATION

MOUNTING AN OPTIC

NOTE:
The Ripley Rail can mount most standard AR-15 “Carry Handle” optics and optic mount adapter rails that do not have a “slant cut” on the sides.

STEP 1:
Place the optic at the Optic Mount Hole just in front of the rear sight. Thread the mounting screw or nut in place. Make sure to press the optic mount forward before fully tightening to ensure the screw will bear against the front of the hole as a recoil lug.

FOREND

The forend is covered in M-LOK slots and any standard M-LOK compatible accessory can be mounted to these slots. The three M-LOK mounts that connect the forend to the carry hand should not need to be tightened, adjusted, or removed as they are simply a system to durably connect the two components at the factory.

FOREGRIP

The foregrip is attached to the forend with two M-LOK mounts. The M-LOK screws and nuts can be loosened with the included 1/8” allen wrench. The foregrip can be moved to any position on the forend for user comfort, or can be removed altogether to expose more M-LOK slots for use.

NOTE:
The foregrip should not be mounted to any product other than the Ripley Rail or another Manticore Arms product that uses the same forend profile (alternate uses will be noted in future products) and is deemed appropriately compatible by Manticore Arms.

MANTICORE ARMS

THE RIPLEY RAIL IS PATENT PENDING AND IS DESIGNED AND MANUFACTURED IN THE USA

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