

U.S. RIFLE 7.62 mm M-14

Characteristics:

1. Air-cooled – natural ventilation
2. Gas Operated – weapons that uses the pressure of the expanding gases to move the bolt through a gas cylinder.
3. Magazine fed – box type - short – 20 rds
- long – 30 rds
4. Shoulder weapon
5. Provided with bayonet lug – for the attachment of bayonet or grenade launcher.
6. Provided with spindle valve – to control the use of gases to operate the rifle.

Gun Data:

1. Length of rifle (overall) w/ flash
 suppressor M-14 ----- 44.3
2. Weight of M14 with full magazine ----- 9.5 lbs
 - w/o fully load magazine ----- 8 lbs
 - w/ empty magazine ----- 8.5 lbs
3. Weight of empty magazine ----- .5 lbs
4. Weight of full magazine w/ ball ammunition ----- 1.5 lbs
5. Muzzle velocity ----- 2,800 fps
6. Cyclic rate of fire ----- 750 rds/min
7. Maximum effective range (semi-auto w/o bi-pod) ----- 460 meters
8. Maximum effective range (semi-auto w/ bi-pod) ----- 700 meters
9. Maximum effective range (auto w/ bi-pod) ----- 460 meters
10. Maximum range ----- 3,725 meters
11. Sights:
 - a. Front – fixed
 - b. Rear – adjustable – 1 click of elevation or windage moves the strike of the bullet .7 centimeter at 25 meters or 2.8 cm or 1.1 inch at 100 meters.
12. Use **seven types** of ammunition:
 - a. Armor piercing – AP – NATO M16
 - b. Ball – NATO M60
 - c. Tracer – NATO – M62
 - d. Dummy – NATO M63
 - e. Blank – NATO M82
 - f. Incendiary – NATO M118
 - g. Grenade launcher ammo – NATO M64

Nomenclature:

1. SELECTOR
2. SAFETY
 - A. SAFE POSITION
 - B. FIRING POSITION
3. GAS SPINDLE

4. REAR SIGHT CONTROLS
 - A. WINDAGE KNOB
 - B. PINION
5. OPERATING ROD HANDLE

Disassembly:

1. Press in magazine latch and remove magazine.
2. Cock rifle and place safety in safe position.
3. Disengage rear end of trigger guard from firing mechanism
4. Swing trigger guard away from stock and pull straight away from stock to remove firing mechanism. Do not rotate trigger guard more than 90 degrees during this operation.
5. Grasp the receiver firmly with one hand and strike the butt with palm of the other, lifting the stock from barrel and receiver group.
6. Depress rear sight to lowest position, and turn the barrel and receiver group on its side with the right side upward.
7. If rifle has selector, press in and rotate until face marked with "A" is toward the rear of the right knob.
8. Push forward on rear of connector assembly with right thumb, until the front end can be lifted off the connector lock.
9. Rotate connector assembly about 35 degrees in a clockwise direction, or until the slot at the rear is aligned with the elongated stud on the sear release. Lower the front end of the connector assembly and lift it off the rear release.
10. Turn barrel and receiver group upside down on a padded surface.
11. Pull forward on operating rod spring, removing pressure on the connector lock pin. Pull the lock outward to remove the operating rod spring guide and operating rod spring.
12. Turn barrel and receiver group right side up.
13. Pull back on operating rod, aligning key on its lower surface with notch in receiver. Lift operating rod free and pull to rear, disengaging it from operating rod guide.
14. Remove the bolt by grasping the bolt roller that engages with the operating rod and slide it forward. Lift upward and outward with a slight rotating motion to the right to remove bolt from receiver.

Assembly:

1. Insert the bolt from receiver group by slight rotating motion to the right.
2. Insert operating rod from operating rod guide, aligning key on its lower surface with bolt engage from operating rod, then pull it forward.
3. Turn the barrel and receiver group upside down on padded surface.
4. Insert the operating rod spring with operating rod guide from the hole of operating rod.
5. Push it forward, to insert it from connector lock and push connector lock pin.
6. Insert the small hole to the rear end of connector from elongated stud, then turn the connector assembly to the left, then push it forward until the connector lock, lock from operating rod.
7. Install stock group from receiver group.
8. Install trigger group from stock, until it engage from receiver group.
9. Push trigger guard downward, until it engage to the trigger mechanism.
10. Insert the magazine smoothly and firmly until it lock from the magazine latch.