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# 7.62mm Kalashnikov Modernized **Automatic Rifle (AKM)**

#### **Purpose and Basic Characteristics**

The 7.62m modernized Kalashnikov automatic rifle (AKM) is an individual weapon and is intended for destruction of enemy personnel. The rifle is equipped with a bayonet-knife for destruction of the enemy in hand-to-hand combat.

Caliber, mm7.62mm
Magazine capacity, rounds
Weight of rifle without
bayonet-knife with loaded
magazine, kg3.6
Length of rifle, mm:
with bayonet-knife1023
without bayonet-knife900
Range of direct shot at
chest-high figure (50 cm
height), m350
Maximum range, m1000
Rate of fire, rounds/minuteapprox. 600
Combat rate of fire,
rounds/minute
Semiautomatic fireup to 40
Burst fireup to 100
Muzzle velocity of bullet, m/sec715
Weight of bayonet-knife, kg
with scabbard45
without scabbard

Casing

Propellant

KD-AKM1



Selector Retarder Spring

**Nomenclature** 

Gas Tube

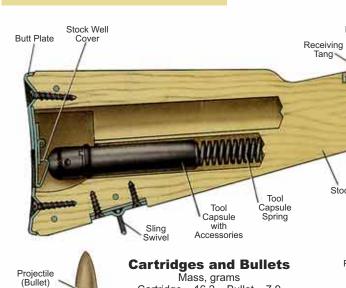
Return

Oiler

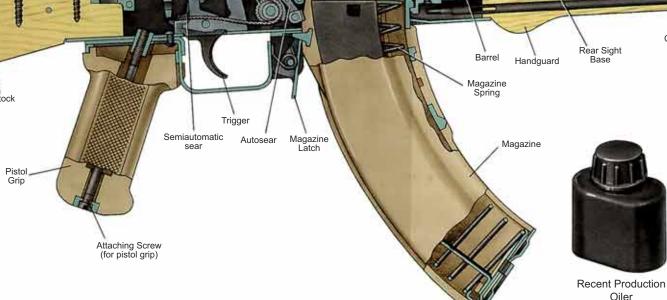
Gas Tube

Joining Collar





Mass, grams Cartridge....16.2 Bullet....7.9





Cleaning Jag

Gas Piston

Gas Chamber



Compensator Lock/Keeper

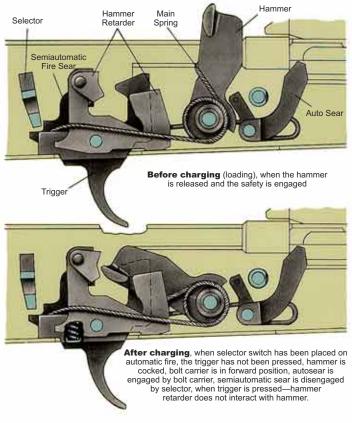
Compensator

Cleaning Brush

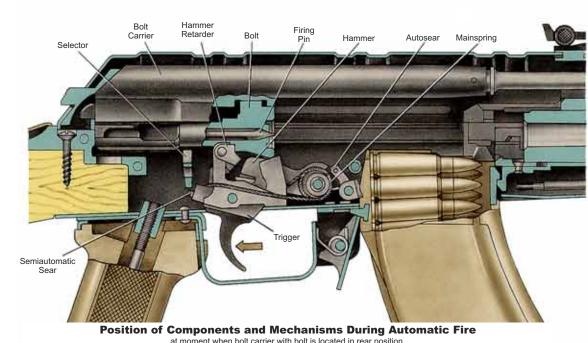


### 7.62mm Kalashnikov Modernized Machine Gun (AKM)

#### **Position of Components of Trigger Mechanism**

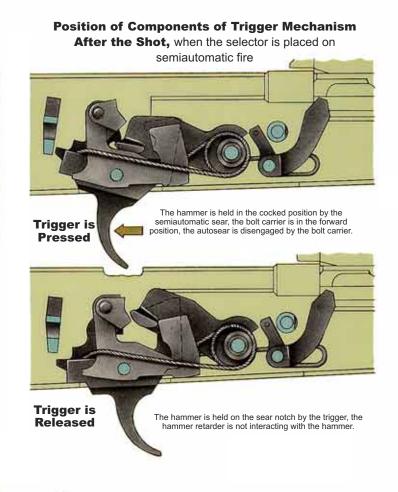


### **Interaction of Components and Mechanisms**



The trigger is pressed, the semiautomatic sear is disengaged by the selector, the hammer is cocked by the bolt carrier; during movement of the bolt carrier to the forward position, the hammer is held by the autosear before its disengagement by the bolt carrier; after disengagement of the autosear, under the impulse of the mainspring the hammer interacts with the retarder and then strikes the firing pin.

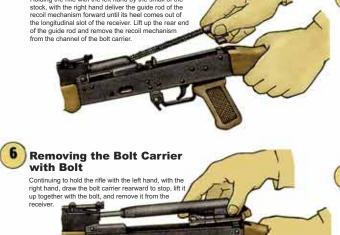
### **Partial Disassembly of the AKM**





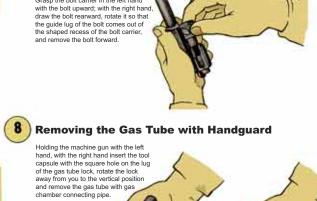
ush in with a finger of the right hand on the





Removing the Recoil Mechanism

Holding the rifle with the left hand by the small of the



Removing the Bolt from the Bolt Carrier

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- 2. Install the bolt to the bolt carrier
- 3. Install the bolt carrier with bolt into the receiver

- 6. Release the hammer from the sear notch and place the weapon on safe
- 9. Install the magazine in the machine gun.



### Kalashnikov Automatic Rifle AKMS



#### Basic Tactical Technical Characteristics

rods or stays

receiver cover

hammer retarder

mainspring

rod ears attachment brush

selector

10 hammer

11 receiver

12 bolt carrier

14 bolt

semi-automatic fire sear 19 gas tube lock

15 rear sight slider

16 barrel bushing

17 rear sight frame

18 rear sight frame spring

Caliber of barrel, mm	.7.62
Maximum firing range, mup to	1000
Range of direct-fire shot, m:	
At chest-high figure	350
At running figure	525
Mass (weight) of rifle without	
bayonet-knife, with loaded	
magazine, kg	3.8
Magazine capacity, rounds	30

600
to 100
p to 40
1010
880
640

38 autosear

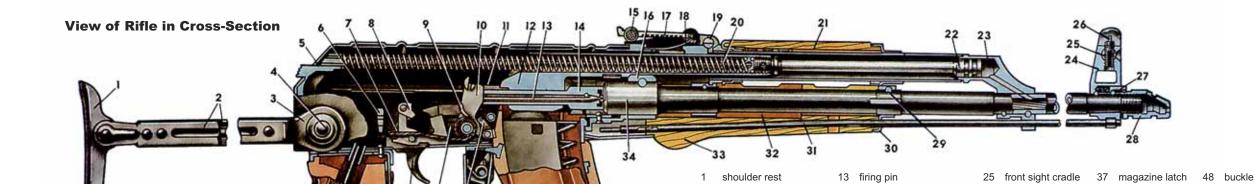
41 pistol grip

42 pistol grip

40 trigger

39 autosear spring

assembly screw



The automatic rifle is an individual rifled weapon for defeat of the enemy in close combat by bursts of fire or in single shots.

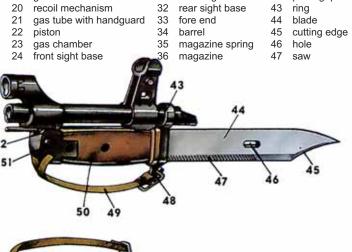
The automatic action of this weapon is based on the utilization of energy of propellant gases. A portion of these gases during firing exit the barrel into the gas chamber and is harnessed for re-charging: it drives the bolt carrier to the rear, which is then returned to the start position under the impulse of the recoil mechanism. The complete cycle of function of all parts during the shot takes up to 0.1 seconds, which also determines the rate of fire - 600 rounds/minute.

The AKMS - Kalashnikov modernized automatic rifle - is folding, simple in use, reliable, and comfortable in combat. Peculiarities that make this weapon stand out from other similar

individual weapons are its light weight, the capability for ease in transportation and carry, reduced dimensions that permit its use in tight battle conditions (in trenches, forests, and buildings); and its folding stock, which has significance, for example, to parachutists.

The AKMS is well suited for night combat, for which it is equipped with self-illuminating inserts, attached to the rear-sight aperture piece and the front sight, and also by use of a night sight.

Special cartridges and simple attachments permit the conduct of flashless and soundless firing, when such is required to ensure the concealment and surprise of combat actions.



26 front sight

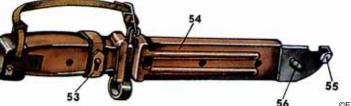
28 compensator

29 fore end lock

30 joining collar

31 cleaning rod

27 locator



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49 strap

50 handle

53 hanger

55 stop

56 lug pin

52 safety lug

with hooks

54 plastic body

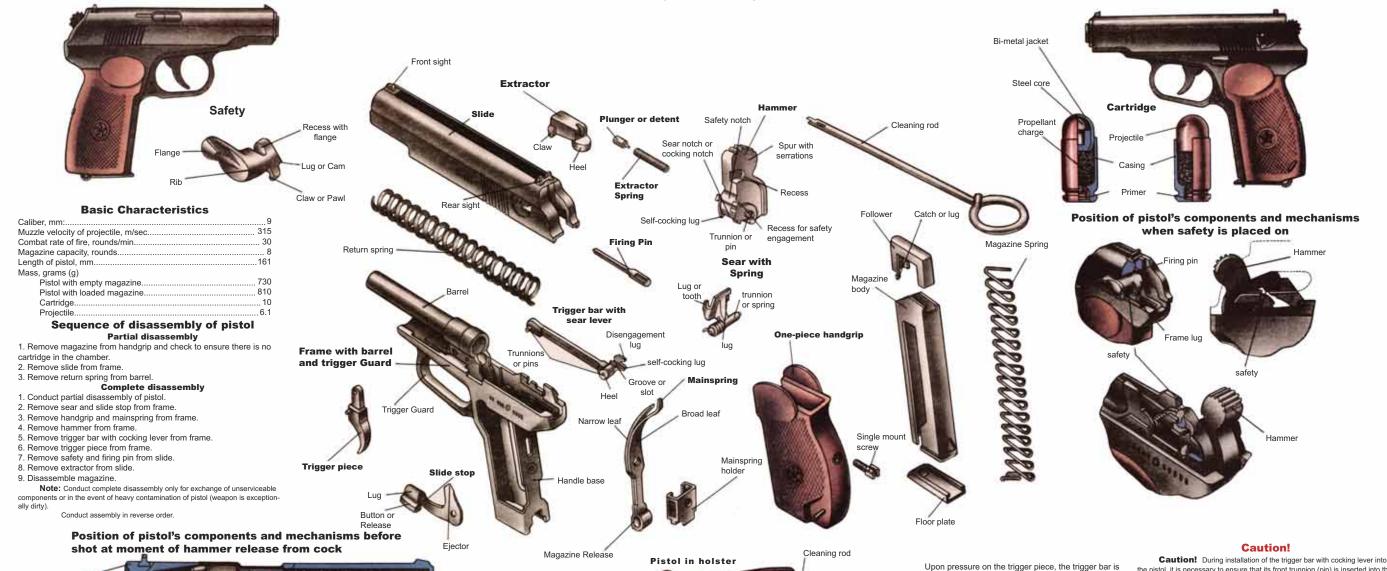
51 latch



# 9mm Makarov Pistol (PM)



**Components of the pistol** 



### Pistol lanvard Position of pistol's components before shot fired by selfcocking dou Position of pistol during Spare magazine inspection after firing Cocking Trigger bar

displaced forward; the cocking lever, rotating, lifts the sear and disengages it from the hammer's sear notch; upon which the disconnecting lug of the cocking lever enters a recess of the slide. The hammer is freed from the sear and under the impulse of the broad leaf of the mainspring strikes the firing pin. The shot is fired. Under the impulse of the propellant gases, the slide is moved rearward and with its lug deflects to the right the disconnecting lug of the cocking lever, releasing it with the sear, permitting the hammer again to position in the sear notch.

If the shot is fired without first cocking the hammer, then upon pressing on the trigger piece, the trigger bar is displaced forward; the cocking lever, engaging the cam by the self-cocking tooth on the hammer, produces cocking and release of the hammer. The shot is fired. Upon firing by self-cocking (double-action), the hammer does not stop on the sear, and separates from the self-cocking lug of the

the pistol, it is necessary to ensure that its front trunnion (pin) is inserted into the hole in the trigger piece.

When installing the main spring in the pistol, its broad leaf should fit into

the recess on the hammer, and its narrow leaf on the heel of the cocking lever. The hammer and cocking lever should be rotated upward. If light pressure on the trigger piece causes the hammer to withdraw rearward, the spring has been

Fit the return spring onto the barrel by the end of lesser diameter, using modest effort to accomplish this.

For assembling the slide to the pistol, position it over the barrel and in a

tilted position (rear portion upward) draw it rearward to stop; then press it toward the frame and release it forward. The safety should be "off" during this process.

When placing the safety in the "fire" or "safe" position, the thumb piece must be placed in the extreme downward (fire) or upward (safe) position. It is not permitted to fire the weapon with the safety placed in the intermediate posi-

Upon expenditure of all cartridges from the magazine, its follower presses upward with its lug on the front end of the slide stop. The slide, resting with its lug on the upraised lug of the slide stop, stops in the rear position; after removal of the magazine from the handle, it remains in that position. The hammer has been placed on the sear notch (cocked). The spring of the magazine follower is

The slide is freed from the slide stop by pressure of the thumb on the

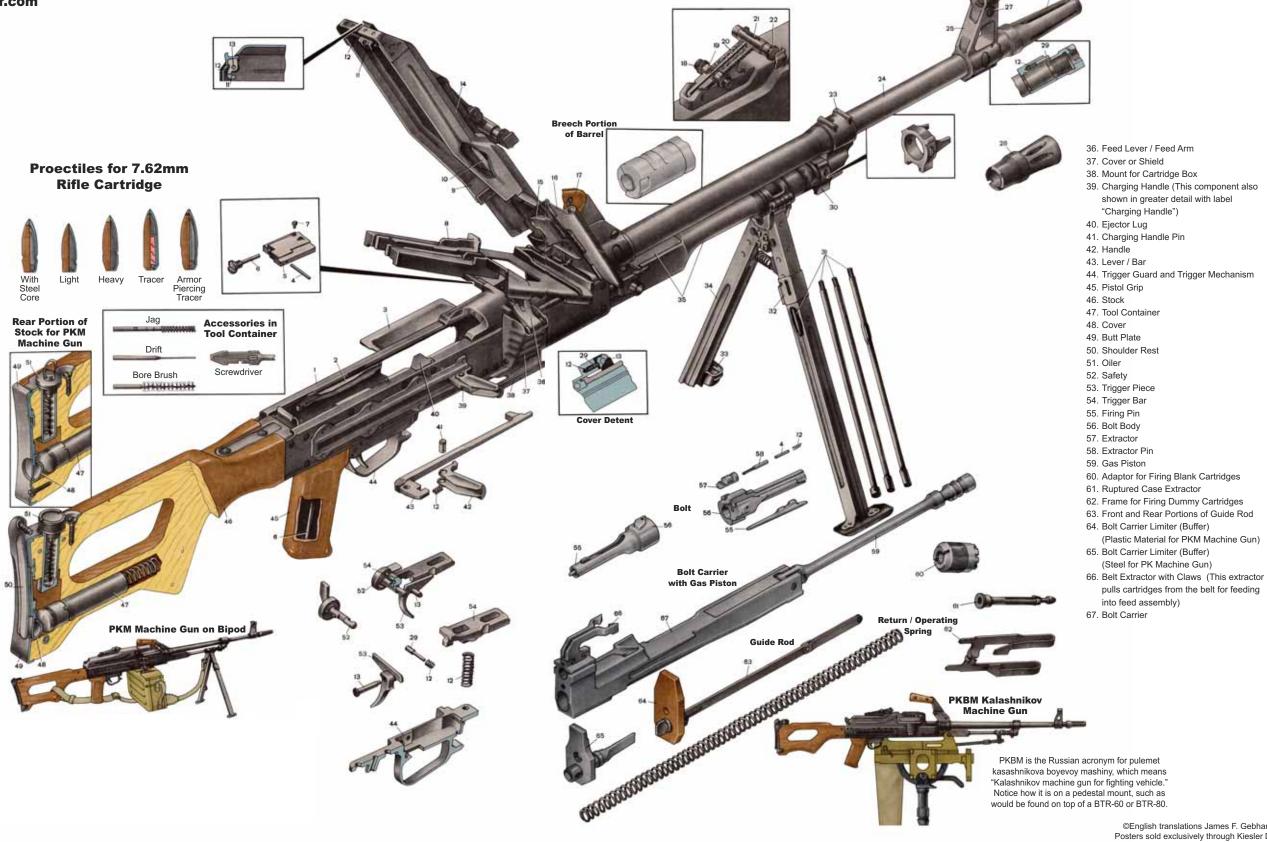
To engage the safety, rotate its flange to the extreme upward position. The safety lug is lowered, blocking the path of the hammer so that the releases hammer cannot strike the firing pin. When the safety flange raises the sear, the hammer is engaged with the safety lug so that it is not possible to cock it.



## 7.62mm Kalashnikov Machine Gun (PKM)

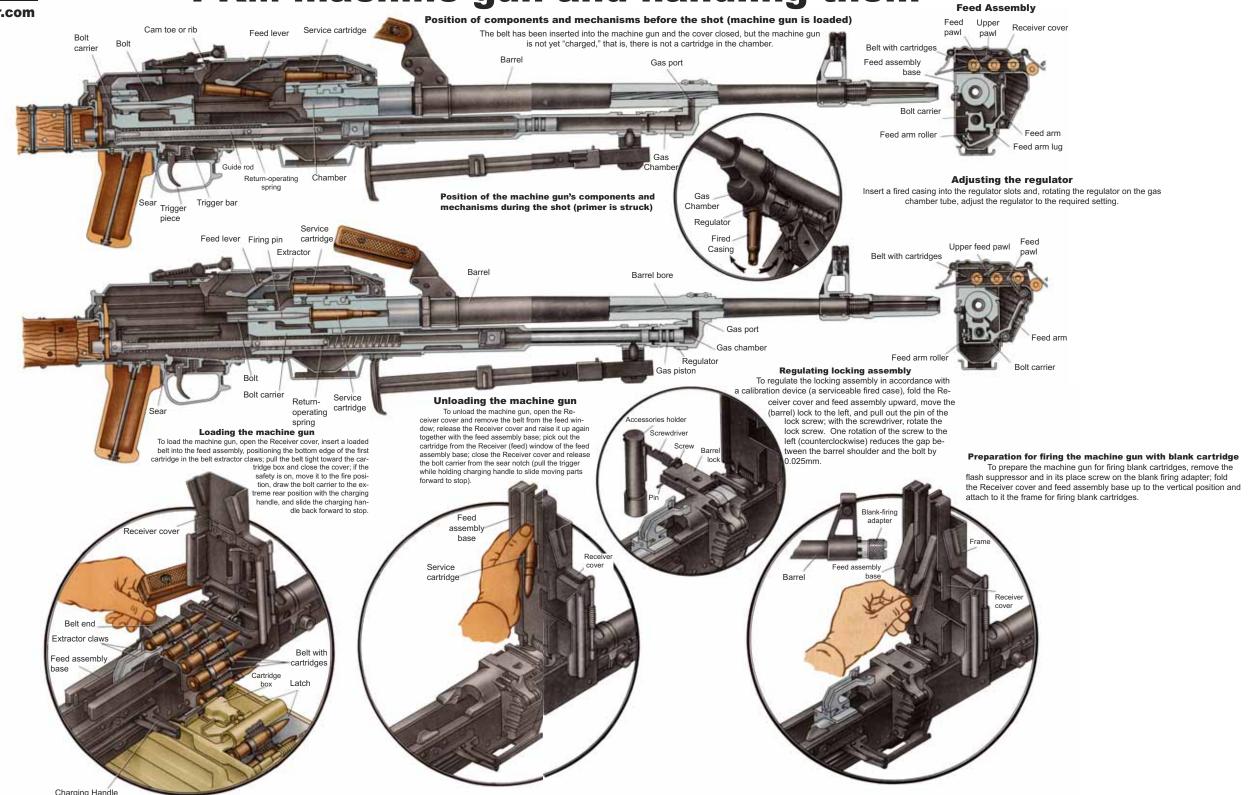
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  - 1. Receiver
  - 2. Cover Plunger
  - 3. Cover or Shield (Items 4-7 are components of barrel lock, shown to the right of the projectile row.)

  - 5. Base
  - 6. Screw 7. Base Pin
  - 8. Feed Assembly Base
  - 9. Reciver Cover
- 10. Feed Lever
- 11. Cover Latch/Catch
- 12. Cover Latch Spring
- 13. Pin
- 14. Rear Sight 15. Upper Feed Pawls
- 16. Cover or Shield
- 17. Carrying Handle
- (Items 18-22 shown in detail in box labeled "Rear Sight" above barrel)
- 18. Rear Sight Slider Latch
- 19. Rear Sight Slider
- 20. Rear Sight Leaf
- 21. Aperture Piece 22. Aperture Piece Adjustment Screw
- 23. Gas Chamber
- 24. Barrel
- 25. Front Sight Base
- 26. Front Sight
- 27. Front SIght Guide or Cradle
- 28. Flash Suppressor
- 29. Detent
- 30. Regulator
- 31. Cleaning Rod Sections
- 32. Movable Slider (permits access to cleaning rod sections)
- 33. Spring Latch (Secures bipod legs together)
- 34. Bipod
- 35. Gas Tube with Spring Latch / Catch





Function of components and mechanisms of PKM machine gun and handling them





### **RPG-7D Launcher**

The RPG-7D rocket launcher is a standard weapon in airborne units and is used to combat tanks and self-propelled artillery pieces, and for destruction of enemy personnel located behind light cover and fortifications such as would be found in an urban area.

Warhead Portion

Propellant Charge

Front Sight Guard

Objective Lens

Eyepiece Broadening of Tube

Bell-Mouth

Plate or Disk

Cover

Objective Lens Cap

Optical Sight Body

Rocket Motor

Defeat of the target is accomplished by PG-7V and PG-7VM rockets with antitank shaped-charge warheads. Armor penetration is achieved by detonation of the shaped charge, which is contained in the warhead portion of the rocket. This design provides for high precision in firing. The rocket is characterized by good accuracy and wind-resistance in its flight trajectory.

28 Turbine

31 Casing

30

32

33

29 Foam Wad

Tracer

35 Conductor

Primer-Igniter

34 Bottom Portion of Fuse

Nozzle Hole

12 Trigger Mechanism Handle

13 Trigger Mechanism Body

16 Nose Portion of Fuse

18 Fairing or Outer Cover

24 Rocket Motor Propellant Charge

17 Conducting Cone

21 Explosive Charge

22 Nozzle Assembly

14 Trigger

15 Cover

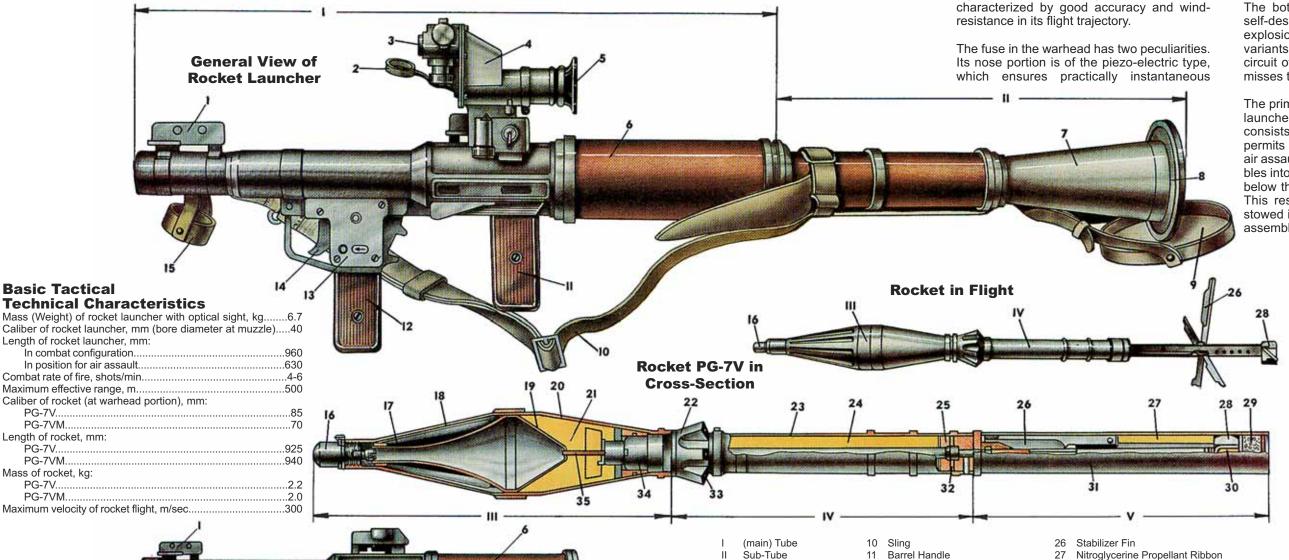
19 Crater

20 Body

23 Tube

detonation of the shaped charge. ("Piezoelectric" defines the principle of generation of
an electrical charge by crushing a crystalline
substance. In the case of this fuse, the charge
is transmitted to the rear (bottom) of the
explosive charge, where it sets off a detonator,
which in turn detonates the explosive charge.)
The bottom portion of the fuse contains a
self-destruct device, which guarantees the
explosion of the rocket under two possible
variants: first - upon failure of the electrical
circuit of the fuse, and second - if the rocket
misses the target.

The primary advantage of the RPG-7D rocket launcher is the take-down barrel, which consists of a main tube and sub-tube. This permits simple preparation of the RPG-7D for air assault configuration: the barrel disassembles into two parts, then the sub-tube is joined below the main tube and secured by a latch. This results in a compact unit that can be stowed in a bag. The rocket launcher can be assembled in mere seconds.



**Rocket Launcher in** 

**Air-Assault Configuration** 

The characteristic quality of this rocket

launcher is the absence of recoil upon firing.

The propellant gases that escape through the

sub-tube form a jet (rocket) power, directed

forward, which is equal to the forces of recoil.

The firer senses (feels) the impulse of some

portion of the gases on the front wall of the

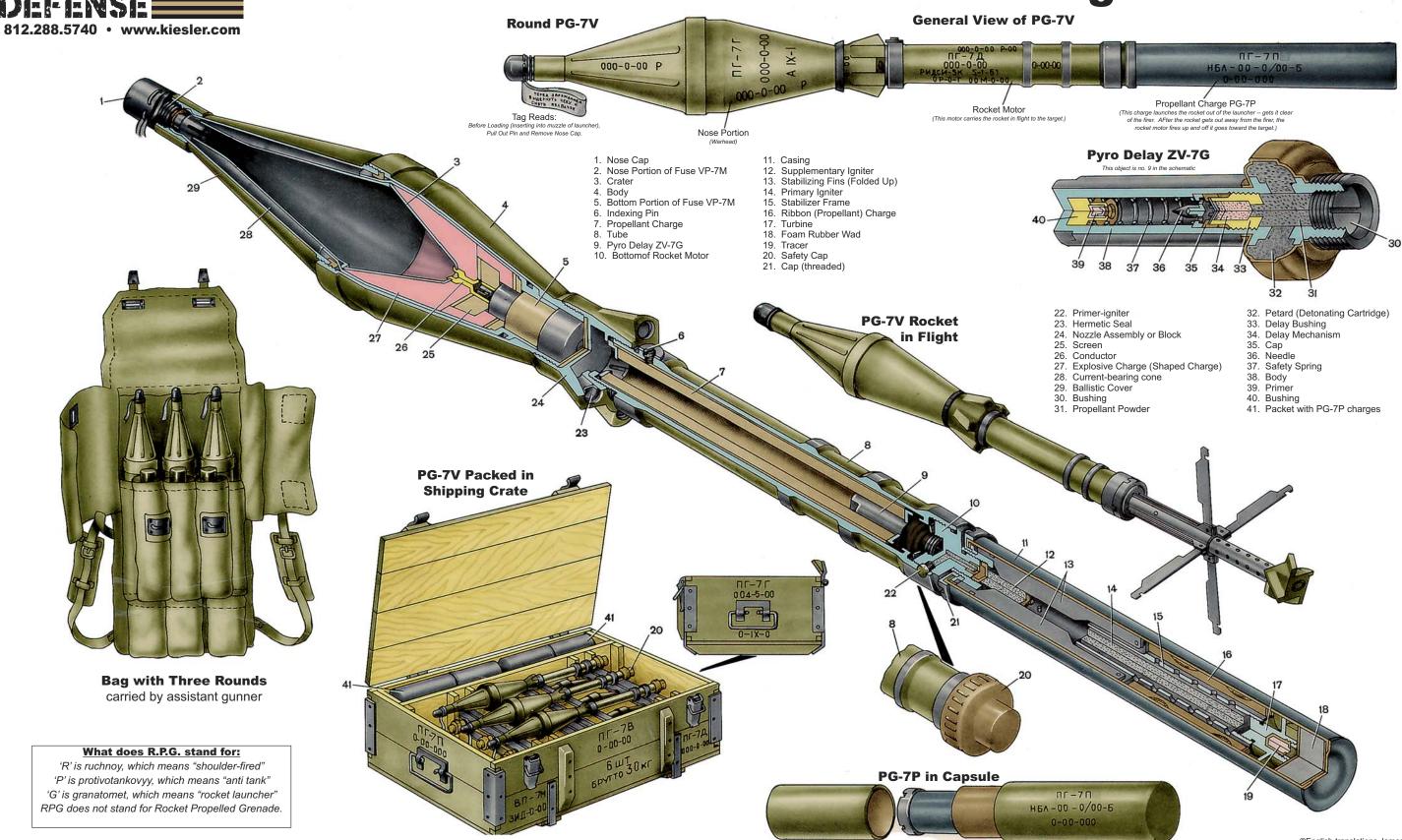
charge chamber as a barely noticeable

forward movement of the barrel, which

specialists call "roll-out."

# KIESLER DEFENSE

# PG-7V 85mm Anti-Tank Hollow Charge Rocket



KD-PG7V



7.62mm Kalashnikov Light Machine Gun (RPK)

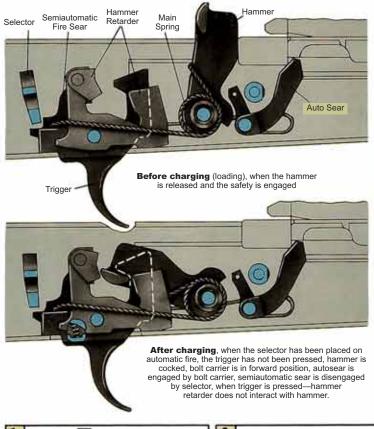




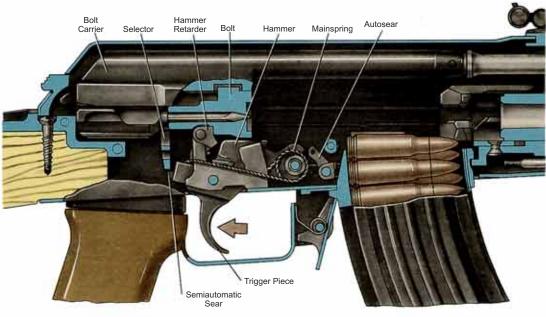
# 7.62mm Kalashnikov Light Machine Gun (RPK)

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#### **Position of Components of Trigger Mechanism**



#### **Interaction of Components and Mechanisms**

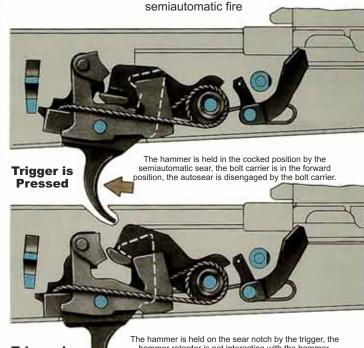


#### **Position of Components and Mechanisms During Automatic Fire**

The trigger is pressed, the semiautomatic sear is disengaged by the selector, the hammer is cocked by the bolt carrier; during movement by the bolt carrier to the forward position, the hammer is held by the autosear until its disengagement by the bolt carrier; after disengagement of the autosear, under the impulse of the mainspring the hammer interacts with the retarder and then strikes the firing pin.

#### **Position of Components of Trigger Mechanism**

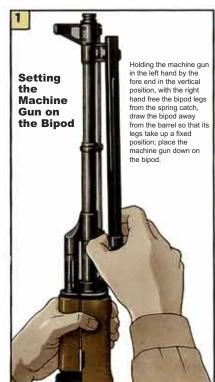
After the Shot, when the selector is placed on



Trigger is Released

hammer retarder is not interacting with the hamn

### **Partial Disassembly of the RPK**





ith the right hand grasp the magazine. Pressing with the thumb on the latch, deliver the lower portion of the magazine forward and remove it. Check to ensure there is not a cartridge in the chamber by moving the selector downward, draw the bolt carrier handle to the real look into the chamber, release the bolt carrier handle, and release the hammer from cock (pull the trigger).



comes out of the holder on the front sight base (during removal of the cleaning rod, it is permitted to use the drift), and remove the cleaning



stock, with the right hand deliver the guide rod of the recoil mechanism forward until its heel comes out of the longitudina slot of the receiver. Lift up the rear end of the guide rod and re-move the recoil mechanism from the channel of the bolt carrier



#### Sequence of RPK assembly after partial disassembly

- . Install the gas tube with handguard
- 2. Install the bolt to the bolt carrier. 3. Install the bolt carrier with bolt into
- the receiver Install the recoil mechanism.
- 5. Install the receiver cover.
- 6. Release the hammer from the sear notch and place the weapon on safe
- . Install the cleaning rod.
- 8. Place the tool capsule in the stock well 9. Install the magazine in the machine gun.
- 10. Fold and secure the bipod legs



open the capsule and remove the accessories from it.







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