

AK-47 Technical Blueprint Overview

Overview

The AK-47, designed by Mikhail Kalashnikov, is a gas-operated, selective-fire rifle known for its durability and ease of use. First developed in the late 1940s, it has become one of the most iconic firearms in the world. This document provides a simplified educational overview of its main components and operating principles.

Major Components

- Barrel Assembly
- Gas Tube & Piston
- Receiver
- Bolt Carrier Group
- Trigger Mechanism
- Magazine
- Wooden or Polymer Stock
- Rear and Front Sights

Operating Principle

1. When fired, gas is tapped from the barrel to drive the piston rearward.
2. The piston pushes the bolt carrier group backward, cycling the action.
3. The bolt unlocks, extracts the spent casing, and ejects it.
4. The recoil spring returns the bolt carrier group forward.
5. A new round is chambered and the rifle is ready to fire again.

Legal and Safety Notice

This document is intended for historical and mechanical education only. Modifying or manufacturing firearms without proper licensing is illegal in most countries. Always comply with local laws and regulations.