

CYCLE OF OPERATION

REMINGTON MODEL 600 - BOLT ACTION CARBINE

Model 600 is a light weight, high power, bolt action, fixed magazine repeater chambered to four (4) popular cartridges -- .222 Rem., .35 Rem., .308 Win. and famous new 6 mm Rem. The vent rib barrel makes it a natural sighter, plus receiver being drilled and tapped ready to accept most popular makes of scopes and mounts. Basic operation of bolt is similar to most rifles of this type. Movement of bolt handle upward and fully back opens, forward and down closes and locks bolt.

FIRING

Firing cycle is basically release of a spring-loaded firing pin for purpose of striking primer of cartridge and igniting same. More specifically, pulling or squeezing of trigger moves connector forward leaving sear unsupported against "cocked" firing pin head. With no support, sear is cammed down by spring-loaded firing pin and main spring drives firing pin forward to strike and ignite primer.

UNLOCKING

Raising bolt handle unseats locking lugs on bolt head from recoil shoulders in receiver.

COCKING

Cocking takes place simultaneously with aforementioned cycle. A cam at rear of rotating bolt forces firing pin assembly rearward and holds it in position, in a notch at rear of bolt, until it is later freed in locking cycle.

EXTRACTION

This phase of operation cycle is essentially one of two parts referred to as (1) primary extraction and (2) secondary extraction. Primary extraction occurs simultaneously with unlocking. The rim of case, being completely encased by bolt head, is gripped by a circular recessed claw-type extractor. During final upward throw of bolt handle, a primary extraction cam retracts bolt approximately 1/8" with a mechanical advantage of about 8 to 1, completing primary portion of this phase. Bolt lugs are now free of locking shoulders in receiver and bolt may now be moved to rear completing second phase of extraction.

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EJECTION

Within the bolt face, maintaining constant pressure on head of cartridge, is a spring-loaded ejector. As bolt is retracted and front edge of cartridge reaches ejection port, pressure, along with opposing grip of extractor, ejects cartridge from port. Rearward motion of bolt is halted by bolt stop.

FEEDING

With bolt in this configuration, topmost cartridge in magazine is allowed to move upward against feeding lips on bottom edge of receiver, allowing itself to be moved ahead as bolt is advanced with a forward motion of bolt handle. Bullet guides cartridge into chamber via a feeding ramp on lower side of receiver.

LOADING

Loading cycle consists briefly of moving cartridge into chamber once it is free of feeding lips in receiver.

LOCKING

Locking cycle is accomplished by rotating bolt with a downward motion of bolt handle, locking cartridge in chamber. Four engagements are made by this cycle: (1) Locking lugs on bolt head are engaged with recoil shoulders in receiver. (2) Head of cartridge is seated into bolt head depressing ejector and extractor claw is snapped over rim of cartridge. (3) Sear engages and locks firing pin head in a cocked position by action of (4) Sear being supported from beneath by connector. Action is now ready to be fired, by release of trigger.

SAFETY

The safety button, located on right rear of receiver, is operated by a push and pull action of thumb. This two-position safety has two intentional functions. When safety button is pulled rearward by a slight down pressure of thumb, a cam is brought into position under safety cam, that locks cam against firing pin head preventing firing. Second function of safety in this SAFE position brings an arm into slot in bolt preventing bolt being opened. Pushing safety button forward to FIRE position nullifies above conditions and will allow rifle to be fired.

Instructions for loading, unloading, assembly, disassembly and care of rifle are contained in instruction folder (RD 5473) supplied with each rifle.

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