

DIRECTIONS FOR .22 LR "OLIMPIA" RIMFIRE TARGET RIFLE

The .22 LR Olimpia Rifle is a classical target weapon.

Specially built for matches, it is generally known as « union Model ».

Peculiar characteristic of this weapon is that it can supply both single shot and semi-automatic fire.

That is achieved by adjusting bolt handle which, when up (position A), supplies semi-automatic fire and, when down (position B), single shots (see ill. 2).

It must be remembered that locked bolt shooting has the advantage of a fuller exploitation of propelling gases with fewer vibrations.

All « Olimpia » rifles are tested from a stand and, at a distance of 50 m, five shots must strike in a pattern not exceeding 19mm in diameter.

Closer scrutiny reveals the following features:

BARREL (ill. 1, no. 1) - Cylindrical - with an outside diameter of 20mm, it makes a one piece unit with front of receiver, which contains cocking and firing mechanism - length 600mm.

The barrel is built in special wear-and-oxidation proof steel. Both barrel and all other metal parts undergo a special antiglare treatment.

BORE - Diameter 5.40mm - depth of rifles 0.01mm - 6 right hand rifles with a constant 400mm pitch.

RECEIVER AND FIRING MECHANISM - The dismantling of this assembly from stock is accomplished by the removal of three screws (ill. 5, nos. 8-9-10).

The two groups thus obtained are:

— trigger guard and plate (table A, no. 11)

— barrel and receiver containing firing mechanism (table A, no. 12).

The barrel cannot be detached from receiver, to the front of which it is fastened by a through pin.

All components of firing mechanism can be stripped removing individual pins.

SAFETY - The catch operates directly on the trigger and is lodged horizontally in the back of the trigger guard (ill. 5, no. 13).

It works sideways and is in « fire » position when red circle shows.

TRIGGER GUARD - It contains magazine-well slot (ill. 5, no. 14), trigger slot, magazine-catch hole (ill. 5, no. 15), holes for the screws fastening trigger plate to receiver.

A hole is bored through trigger guard (ill. 5, no. 16) to give access to the screw adjusting trigger pull (ill. 5, n. 17).

TRIGGER PULL ADJUSTING SCREW - It is lodged in trigger plate (no. 17) and can be reached with a screwdriver through the hole in the trigger guard. Turning screw clockwise, the pull is lightened; it is stiffened if screw is turned counterclockwise.

REAR SIGHT (ill. 3) - It includes base (no. 18), rear sight mount (no. 19), and V shaped notch (no. 20).

The rear sight mount can be adjusted horizontally by means of two knurled buttons on either side of mount.

For horizontal adjustments, loosen both knurled buttons, tighten the one that effects adjustment desired, then fasten opposite one.

The sight mount (no. 19) is adjusted in elevation by a screw set in its center and which is easily operated with a screwdriver (no. 23).

FRONT SIGHT (ill. 1, no. 24) - Placed on the muzzle, it is fastened to base by a screw on its right.

This feature is designed for an easy substitution of any of the three front sights supplied with each rifle.

COMPONENT PARTS OF BERETTA .22 LR "OLIMPIA" RIMFIRE RIFLE

- | | |
|---|---|
| 1 - barrel | 24 - front sight with base |
| 1 bis - stock | 25 - front sight guard |
| 2 - firing chamber | 26 - cheek rest |
| 3 - breech | 27 - stop |
| 4 - breech release button | 28 - front swivel plate |
| 5 - bolt handle | 29 - adjustable front swivel |
| 6 - bolt recoil spring | 30 - swivel screw |
| 7 - recoil spring rod | 31 - magazine |
| 8-9-10 - trigger plate screws | 32 - bolt handle locking notch |
| 11 - trigger plate and trigger guard | 33 - breech bolt |
| 12 - receiver for cocking mechanism | 34 - extractor with spring and pin |
| 13 - safety with spring and pin | 35 - firing pin and spring |
| 14 - magazine-well slot | 36 - ejector with pin |
| 15 - magazine-catch hole | 37 - hammer spring and spring rod |
| 15b - magazine-catch with spring and pin | 38 - hammer and pivot |
| 16 - hole for trigger pull adjustment screw | 39 - sear lever and spring |
| 17-20-21-22-23 - rear sight with base, sight mount, aiming notch, and two knurled buttons | 40 - trigger with release lever, pivots, pin, trigger recoil-spring |
| | 41 - trigger-catch lever with pin and recoil-spring |
| | 42 - rear swivel and screws |

FIRING CHAMBER (ill. 3, no. 2) - Depth 19mm - diameters: front 5.70mm; rear 5.88mm - it takes .22 Long Rifle ammunition.

The extractor head slot is on right of firing chamber.

BREECH MECHANISM (ill. 3, no. 3) - In high resistance steel, it can be easily stripped by a simple pressure on a knurled button (ill. 3, no. 4).

To remove breech and-bolt assembly, pull handle all the way back, lodge it in rear notch (ill. 3, no. 5), and push upwards on knurled button.

Removal of the breech gives access to firing chamber and barrel, which should be cleaned after every 200/300 shots.

To disassemble bolt from breech body, disengage bolt handle from retaining notch and let it slide forward until recoil spring and spring rod are exposed (table A, no. 6 & 7).

Removing pin from rear section of bolt, firing pin and spring are freed. To reassemble, follow same procedure in reversed order, after ascertaining that hammer is cocked (down). This will be accomplished by downward push of finger.

FRONT SIGHT GUARD (ill. 1, no. 25) - Designed to protect and shade front sight, it can be easily slipped off its base by pushing with thumb towards butt.

To fasten on front sight guard, push towards muzzle.

STOCK (table A, no. 1b) - It is the wooden part of the rifle and it has been specially weighted down for steadiness. It is only supplied with full pistol grip, cheek rest on the left (no. 26), and Monte Carlo type stop (no. 27). The fore part of the stock carries a sling swivel plate (ill. 5, no. 28) with five holes for sling swivel adjustment.

To adjust swivel, simply unscrew fastening screw (no. 30) and move it to a more suitable position.

Both front and rear swivels are oversize to accommodate target shooting slings.

HOW TO OPERATE WEAPON - Insert cartridges into magazine (table A, no. 31) (5 or 10 rounds) and slip it into magazine-well while keeping magazine catch pressed. Free bolt handle from locking notch, pull it back, and release it: the weapon is ready for semi-automatic fire.

To fire single shots, rounds can be inserted one by one directly into firing chamber, without using magazine. Bolt is locked by lodging handle in retaining notch (ill. 3, no. 32).

SPECIFICATIONS - Overall length 1090mm - Barrel length 600mm - Stock length 800mm.

Weight - without magazine - a. 3.7kg.

Weight of 5 - round magazine - 25g.

Weight of 10 - round magazine - 35g.

Penetration in pine boards (with good ammunition):

from 50m - 85mm — from 100m - 65mm.

ACCESSORIES

— cleaning rod with brush

— no.1 5-round magazine

— no.1 10-round magazine

— no.2 front sights - 1 1/2mm and thick, besides 2 1/2mm sight mounted on muzzle.

