



Large-ring, military, Model '98 Mauser rifles utilize a cross bolt which serves as a seat for the receiver recoil lug as well as a means of reinforcing and strengthening the stock. Brownells Mauser '98 Cross Bolt Wrench is designed specifically to fit the two holes of the special, round, stock cross bolt NUT on these rifles. The close fit minimizes the chance of damaging either cross bolt, cross bolt nut or the gun's stock when removing or installing the cross bolt and nut.



WARNING



Never attempt to disassemble or reassemble a firearm unless you are absolutely certain that it is empty and unloaded. Visually inspect the chamber, the magazine and firing mechanism to be absolutely certain that no ammunition remains in the firearm. Disassembly and reassembly should follow the manufacturer's instructions. If such instructions are not immediately available, contact the manufacturer to see if they are available. If they are not available at all, then you should consult other reference sources such as reference books or persons with sufficient knowledge. If such alternative sources are not available and you have a need to disassemble or reassemble the firearm, you should proceed basing your procedures on common sense and experience with similarly constructed firearms.

With regard to the use of these tools, the advice of Brownells Incorporated is general. If there is any question as to a specific application it would be best to seek out specific advice from other sources and not solely rely on the general advice and warnings given.

HOW TO USE

Remove the barreled action as well as the triggerguard assembly from the stock. Secure the stock horizontally in a padded vise with the cross bolt nut in the upward position leaving clearance for use of the Mauser '98 Cross Bolt Wrench. Next, place the Mauser '98 Cross Bolt Wrench on the cross bolt nut and **MAKE SURE** its two pins are fully seated in the corresponding holes in the cross bolt nut. On many of the older military rifles, especially those that have seen a great deal of service, the holes in the cross bolt nut may be filled with dirt or grime preventing complete seating of the pins. In addition to cleaning these holes, you may find it advantageous to apply a bit of penetrating oil to the threaded end of the cross bolt to aid in loosening the nut.

Once the Mauser '98 Cross Bolt Wrench is securely in place, turn the "T" handle in a *counter-clockwise* direction to loosen the nut while applying downward pressure to prevent the Cross Bolt Wrench's pins from slipping out of the cross bolt nut holes. Under normal conditions, the cross bolt nut can be removed easily.

If you remove the cross bolt from the stock, **DO NOT** forget to reinstall it prior to reassembly and test firing of the rifle. Failure to install the cross bolt can result in major damage to the stock and to the rifle mechanism. In addition, there is the possibility of injury to the shooter. Again, **DO NOT FORGET** to reinstall the cross bolt and secure it with the cross bolt nut.

Because of the great diversity of '98 Mausers, you may encounter some slight variations in the cross bolt, cross bolt nut or the spacing of the stock around the nut. While we have used the Brownells Mauser '98 Cross Bolt Wrench on a great variety of large-ring Mausers, there is always the possibility you may encounter one where it will be necessary to make some slight modification to the Cross Bolt Wrench.

The Brownells Mauser '98 Cross Bolt Wrench has two flats milled on the shank that permit the use of an adjustable wrench to aid in breaking loose rusted or tight cross bolt nuts and also make it possible to easily adjust or replace the Cross Bolt Wrench's pins. These pins may bend or break if subjected to excessive stress. If you notice a pin is bent, **BE SURE** to replace it immediately. Bent or broken pins can cause damage to the cross bolt nut and/or the rifle stock.

Reassemble the firearm according to the manufacturer's instructions. Check for proper functioning using **ACTION PROVING DUMMIES**. Make sure **ALL SAFETY MECHANISMS** are fully functional as designed and approved by the manufacturer. If these tests prove satisfactory, test-fire the firearm with live ammunition in a **SAFE** and **APPROPRIATE** manner.

BROWNELLS[®]

MAUSER '98

CROSS BOLT

WRENCH

#080-098-100



READ & FOLLOW THESE

INSTRUCTIONS

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