

## Timney™ Manufacturing Inc.

Installation & Adjustment Instructions for  
the

Ruger M77 MK II Trigger & Sear

### PLEASE READ THESE INSTRUCTIONS FULLY BEFORE STARTING INSTALLATION

1. Before handling your rifle make absolutely certain the chamber and magazine are empty and the muzzle is pointed in a safe direction.
2. Remove the bolt from the rifle.
3. Open the floorplate and remove the front floorplate mounting screw, then remove the two trigger guard screws.
4. Remove the barreled action from the stock.
5. Place the barreled action in a padded vice with the jaws of the vise clamped around the barrel just ahead of the receiver. Align the receiver so that the right side (safety selector side) is facing up with the bottom of the trigger facing the installer.
6. Before starting this step remember that the trigger is under spring tension. Using a 1/8 inch punch, remove the trigger pivot pin, original Ruger trigger and trigger/sear spring. Next remove the sear pivot pin and sear. Set the pivot pins aside for use later.
7. Install the Timney™ adjustable sear using the original Ruger pivot pin (the longer pin). Make certain the bulge on the sear faces down toward the trigger.
8. **NOTE:** We have included a spring to allow adjustment of the trigger from one and a half to two pounds, if you would like a higher trigger pull weight use the original Ruger trigger spring.

### TIMNEY™ ADJUSTABLE TRIGGER GUARANTEE

Material & workmanship: This Timney™ trigger has been carefully inspected, tested, and adjusted to give a lifetime of dependable service. Every possible care has been exercised in its design and construction. If any defect in workmanship or material should develop under conditions of normal use and service, necessary repairs, including parts and labor, will be made at no charge to the purchaser, providing that our inspection reveals the trigger was not damaged through accident, alteration, misuse, abuse, or other causes beyond our control. We neither assume nor imply any oral or statutory warranties, and we neither assume nor authorize any person to assume for us any obligation or liability in connection with this trigger. Repairs or disassembly of this trigger in any manner without specific factory authorization voids this warranty.

### TIMNEY™ MFG., Inc. 3940 West Clarendon Ave Phoenix, AZ 85019

9. Place the above mentioned spring into the cavity in the Timney™ MKII trigger. Slide the trigger into the receiver making sure the spring is centered around the bulge on the sear and the crown of the adjusting screw on the trigger. Insert the trigger pivot pin.
10. Make sure there is tension on the sear and trigger from the spring. If you feel there is not enough tension on the trigger and sear turn the screw on the bottom of the trigger in (clockwise) to increase the tension until there is no possibility for slamfires.
11. Check the chamber to make certain it is empty. With the safety in the fire position insert the bolt into the receiver. Check the sear engagement, it has been set at the factory for proper engagement. Insert the bolt into the action and dry fire the rifle. Work the bolt vigorously several times to ensure that the rifle is working properly.
12. **IMPORTANT:** Your rifle's original safety was set at the Ruger factory. Because of the difference made by the new sear engagement the safety will probably need to be adjusted. Check to see if the bottom side of the safety selector clears the safety tab on the side of the trigger (we have put dye on this part to make it easy to recognize). The safety selector should move over the top of the tab as it is changed from fire to load/unload to the safe positions. There should be enough clearance to allow for easy movement without allowing the trigger to pivot to the point of let off. It is very important to make certain that you have the proper amount of sear engagement before you proceed with fitting the safety. If there is not enough clearance between the safety selector and the trigger's safety tab remove the trigger and carefully file the trigger's safety engagement tab until sufficient clearance has been achieved. It is very important to understand that the rifle should be cocked while checking the safety clearance. Please be careful; if you remove even .005 of an inch too much (the width of 2 human hairs) it may be too much. **BE CAREFUL!**
13. Adjust the trigger pull to the desired weight. To increase pull weight turn the Allen screw at the bottom of the trigger in (clockwise). To decrease the trigger pull turn the screw out (counterclockwise). Make certain you have enough tension on the trigger to prevent slamfires. Dry fire the rifle vigorously several times to ensure that the trigger is functioning properly.
14. We have adjusted the overtravel screw in our Ruger test action prior to shipment, if you want to change the adjustment please follow step 15.
15. Turn the barreled action in the padded vice so that the left side of the action faces up. Turn the overtravel screw on the trigger until it hits the receiver (the overtravel adjustment screw is the long one on the left side of the trigger). Cock the bolt, now pull the trigger while turning the screw out slowly until just past the point of let-off. Dry fire the rifle several times to ensure it is functioning properly. Tighten the lock nut after you are sure it works correctly.
15. You will have to inlet your stock below where the overtravel adjustment lug enters the stock. Put a bit of inletting black or lipstick on the overtravel screw mounting lug. Install the barreled action in the stock and then remove the barreled action. Remove a small amount of wood where indicated by the inletting black or lipstick. Check for clearance by dry firing the rifle several times.
16. Install the barreled action into the stock in the reverse order of assembly.
17. Make sure the chamber is empty and the barrel is pointed in a safe direction. Now dry fire the rifle once again to make sure everything is working properly.
18. You may change the pull weight by turning the screw in the bottom of the trigger. Make certain after you change the weight that everything is working properly before using the rifle with live ammunition. We recommend the use of a thread locking compound such as Locktite® after all adjustments.

As a service to our customers we will install this trigger for \$30.00 plus \$8.00 shipping and handling.