



*Always follow proper firearm safety practices and wear safety gear when servicing or handling any firearm.  
Texas Weapon Systems is not responsible for your mishandling or improper use of a firearm.*

**Read complete instructions before installing this product.**

**\*\*\* Assure the firearm is unloaded before servicing. \*\*\***

~ PN 33316 - Gen3 M85/M92 Dog Leg Rail model

**Detailed Installation Instructions**

- Remove the factory supplied hinge pin and dust cover.
  - Securely hold the weapon in a rifle vise or a bench vise.
    - If using a bench vise carefully clamp the weapon being careful not to crush the receiver. Wrapping the rifle with a rag will help prevent damage to the finish.
  - The factory hinge pin is retained by a press fit ring on the ejection port side. Use a 4mm (5/32") or smaller punch to press out the hinge pin from the ejection port side. **(Fig. 1)**
  - Remove the hinge pin, press ring, and original top cover assembly. These parts will not be re-used. Take care not to lose the gas tube retaining pin and spring.
  - Remove the gas tube retaining pin and spring to facilitate ease of installation during fitment. Set these parts aside for later reinstallation.
  
- Install the new release button.
  - Remove the recoil spring assembly from the weapon.
  - Test fit the new replacement button into the rear trunnion slot.
    - **On some weapons it may be necessary to lightly sand the bottom surface of the release button to obtain an optimal fit in the trunnion slot.** The button should be able to fully slide to the rear of the slot. Add a drop of gun oil in the slot for a smooth function.
  - Disassemble the recoil spring assembly as shown. **(Fig. 2)**
    - To disassemble the recoil spring assembly, manually compress the spring about two inches and remove the spring retainer cap. All parts can now be disassembled.
  - Replace the standard release button with the new release button supplied in the box. Reassemble in the reverse order.
  - Recoil assembly should be set aside for later installation.
  
- Fit the Dog Leg™ rail to the rifle.
  - Finger tighten the two adjustment bolts of the hinge fork, leave loose enough to permit forward and backward adjustment.
  - Attach the hinge fork to the hinge block with the supplied hinge pin bolt inserted from right to left. The bolt head should fit in the recess. **(Fig. 3)**
  - Adjust cover length so the rear of the cover sits within the rear trunnion groove and as far back as possible. **(Fig. 4)**
  - Once the length is set, tighten the two adjustment bolts. A thread locking adhesive such as Loctite Blue is recommended.
  - Remove the hinge bolt to remove the cover from the rifle.
  - Reinstall the gas tube retaining pin and spring into the hinge block.
  - Attach the hinge fork to the hinge block with the supplied hinge pin bolt inserted from right to left. The bolt head should fit in the recess. **(Fig. 3)**
  - Install the washer and lock-nut using a 7mm wrench or crescent wrench. **Tighten the lock-nut just barely enough to remove the slack between the hinge and hinge block.**
  
- Re-assemble the weapon.
  - Re-install the recoil spring assembly.
  - Close the cover and charge the carrier **several times** to fully seat the release button in the cover.
  
- The weapon is now ready for use.





**Tools**



**Fig. 1**



**Fig. 2**



**Fig. 3**



**Fig. 4**



**Assembly is complete**