

(742) Improvements vs. Current 740

Benefits and Improvements

6. Reduction in Fail to Fire Complaint

- a. Additional firing pin clearance in bolt.

This complaint can be caused by hard preservative greases and foreign matter lodged in between firing pin and its guide diameter of the carrier and bolt assembly as described under Improvement No. 1. However, analysis of the current design indicates possible interference and hydraulic snubbing of the firing pin. Additional clearances have been provided to overcome both interference and hydraulic effect.

7. Eliminate Damaged Threads on Bolt and Barrel Extension.  
(A process improvement)

This process improvement will aid to improve lock up and unlock both manually and auto cycle. 85

8. Fore End Improvements

- a. Addition of spacer tube.
- b. New design fore end bushing.
- c. Redesigned fore end liner.
- d. Redesigned fore end screw.

Improved fore end design will eliminate current premature liner deformation at front end leading to loose and cracked fore ends. Also accuracy (point of impact) should be improved by new screw and bushing design which automatically insures no interference (free floating) between fore end and rear of receiver.

9. Reduced Operating Handle Looseness.

- a. Redesign connection between handle and bolt carrier.
- b. Increased diameter of operating handle retaining pin.
- c. New shear proof pins from vendor.

These modifications will improve endurance of gun, eliminate premature loosening of operating handle causing hard manual opening of action.

10. Improved Extractor Breakage.  
Redimensioned seating radius of extractor rivet to agree with countersink of rivet hole in extractor.

Reduced premature breakage of extractors across the rivet hole.

11. Improved Action Tube Support

- a. Redimensioned hole spacing in bracket.
- b. Reduced pin hole diameter in bracket.

This modification assures better alignment with sleeve.