

DRAFT

Dec. 30, 1975

FIELD SERVICE MANUALMODEL 700 - 600

1. To check safety operation; remove stock assembly. Open and close bolt to cock gun. Put gun safety in on safe position. By rotating the safety to the on safe position, a cam on the safety lever lifts the sear safety cam off the trigger connector, disconnecting the trigger from the sear. There should be a clearance between the trigger connector and sears safety cam with the safety lever in on safe position. If there is no clearance, replace the safety lever. If this does not correct the problem, replace the fire control assembly. Reassemble gun, check safety operation by putting gun on safe position, pull trigger up and back smoothly. Replace trigger, move safe to off safe position and try trigger to see if gun fires correctly, Gun should not fire on safe or when cap is removed.
2. The safety lever should function between two positive detent positions. If the safety detent positions are not positive, inspect detent holes, retainer and retainer pin for possible causes. Lubricate with a dry lubricant, replace worn parts and recheck detent action.
3. When repairing the fire control assembly, the parts should be washed thoroughly with a petroleum solvent, if they have been lubricated liberally with gun oil. Drying gun oil can cause these precision parts to stick. The fire control was lubricated at the plant with dry lubricant. After thoroughly washing relubricate with dry lubricant.

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4. Check to insure that the trigger, sear, and safety lever work freely in the fire control assembly before reassembling to the gun.
5. When reassembling the gun, the trigger and safety should always be checked to make sure they have no interference with trigger guard or stock respectively.
6. The connector and sear safety cam should be adjusted to .015 to .020 engagement to obtain a trigger with good pull and safety characteristics. The trigger adjusting screw should be adjusted to give the desired trigger pull with a 3 pound minimum pull weight recommended. When trigger is pulled but not released, it should re-engage when trigger is released. Stake or cement screws when finished.
7. If the gun fires inadvertently from being jamed, lift bolt handle and pull trigger a number of times, as the firing pin head could possibly be binding on the receiver rails, or the fire control housing. File the area where binding, to free firing pin head. The centrality of the slot to firing pin head can be checked by removing the bolt assembly from the gun. Disassemble firing pin assembly and reassemble bolt to gun, check firing pin cocked notch to centrally locate firing pin head slot.

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8. No fire control problem should be solved by the use of lubrication if the gun malfunctions. The cause should be positively located before the gun is relubricated, as lubrication can hide potential problems.
9. Gun should be checked for follow down by smoothly closing the bolt. (Gun empty) follow down (that is firing pin coming forward as bolt is closed) can be caused by inadequate setting on sear safety cam engagement with connector, trigger held back, and sear safety cam binding.
10. Care should be exercised not to bend in fire control housing which could bind sear safety cam when reassembling pins which hold assembly to the gun.
11. When the gun is fired, the connector works independantly of the trigger. The fit between the trigger and connector should be a slip fit so as not to cause the connector to hang up and cause a follow down condition.
12. Call out to use a good grade of greese on cam, bolt body and locking lugs.

JPL:bd