

> 6. The metal side plates on both A-14 and A-26 were removed. On both samples it appeared that the trigger spring adjustment screw opening was distorted slightly on the bottom side of the hole. It also appeared that the screw may not of been located central to the opening. This resulted in less space for the trigger return spring on the bottom and it was theorized that this could result in binding of the spring during operation. This was not proven however.

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> >7. A discussion followed focused on the procedure followed during T & P build. It was discovered that after insert assemblies were built and adjusted on the adjustment and inspection station that the insert assemblies were built into guns by various assemblers. After a gun is built it is checked for trigger pull and if measured out of specification the fire control adjustment screws are adjusted to bring trigger pull into specification. This is done by the assembler at the bench and he is only focused on trigger pull, not whether the fire control change he just made has effected any other parameter in the gun, like trigger return. This is the most probable cause of the fire control related malfunctions on both A-14 and A-26, misadjusted fire controls with inadequate inspections to catch this situation. An additional factor on gun A-14 may be the support bracket bias resulting in slight sear bind caused by the location of the threaded hole in the receiver being out of specification.

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> 8. Bolt stop breakage was discussed. One of E-town's metallurgists is currently analyzing failed samples and destructively testing DAT and T & P samples in an attempt to understand the reason for these failures. No solution can be offered at this time.>

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> During a wrap-up meeting in Mayfield all issues were listed along with the most probable cause. This was followed by a listing of actions required by Mayfield to correct these issues on existing T & P product so that a new sample could be selected for a second T & P test. The following proposed plan was offered:

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> * Mayfield will screen existing guns for stock sink and trigger location in the trigger bow opening and replace stocks as required. A .020" shim must go on both sides of the trigger between the trigger and stock opening. The trigger must be biased to the appropriate side before this check is made.

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> * Mayfield will build new insert assemblies using all new parts. The adjustment/inspection setup will be used to set all fire control settings (engagement, over travel and trigger return spring force. All assemblies will be inspected for adequate trigger return force to ensure that all triggers return to full engagement. In addition sears should be inspected to ensure that they are free to move both in and out of the stock (with bracket installed). T & P guns will be rebuilt using these new assemblies. The assemblers will be instructed to check trigger pull and then segregate product based on whether they are below, above or in specification. It should be mentioned that Mayfield has requested a new trigger pull specification of 4 to 5.5 lbs. Yield based on trigger pull will be tabulated by Mayfield and used to support their position on this issue. Any trigger pull specification change needs to have Marketing's approval prior to T & P test start.

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> * Mayfield will retest product in the modified shooting test booth to verify that the trigger bending has been corrected.

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> * Mayfield needs to ensure that the support bracket does not bias the fire control insert in any way on all T & P product. This should include both inspection and dimensional verification that all characteristics that could effect this, like the location and orientation of the threaded hole in the receiver are in specification.

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