

chamber. This is no longer a T & P issue. E-town gauges will be updated.

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> 2. Trigger location front to back was investigated next. It was determined that the trigger was bent. The cause of this bending was isolated to the proof test fixture that remotely fires the gun. Mayfield has already made a change to this fixture and the current setup does not bend triggers. Most of the T & P product was tested in the proof test fixture before this change was made. As a result a high percentage of triggers are bent.

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> 3. Side to side trigger variation was attributed to stock deformation. A change to the stock mold cooling system has been made. Stocks run with this hot manifold modification exhibit less sink and distortion.

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> 4. Gun A-14 was examined. Trigger pull was in specification when checked. It was noticed that loosening and retightening the support bracket screw did bind the sear. A very slight movement of the fire control was detected when the screw was tightened. The location of the tapped hole in the receiver was checked and this was determined to be out of specification. The insert assembly was checked on the adjustment and inspection setup and it was determined that the trigger was not fully returning to the fully engaged position. The force required to rotate the trigger to the fired position measured low on this sample.

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> >5. Gun A-26 was examined. Trigger pull on this gun was also in specification when checked. The sear was free to move in this gun and loosening and tightening the support bracket screw did not effect sear movement. No movement of the fire control could be detected when the screw was tightened. The insert was also checked on the adjustment and inspection setup. The trigger would also not fully return to the fully engaged position on this sample.

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> 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

Subject to Protective Order - Williams v. Remington

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