

[Design Objectives]

- Design a less expensive alternative to the X-Mark Pro for the Model 770
- Maintain functional equivalence to the X-Mark Pro
 - Block trigger when gun is in safe
 - Return the trigger when put in safe
 - Remove the connector
 - Balance trigger

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[Design Approach]

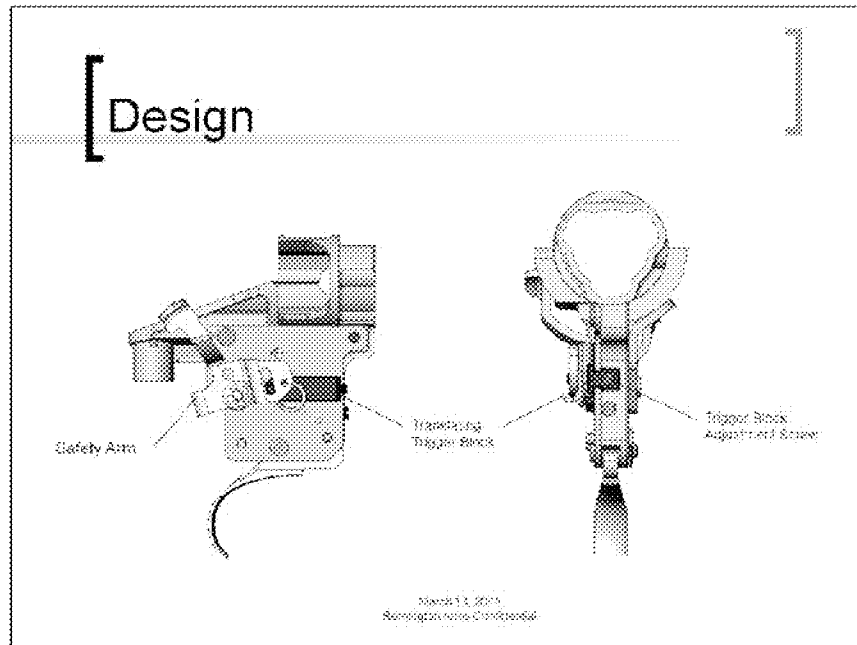
- Add as few new parts as possible
- Keep the current concept of a plastic receiver insert
- Utilize a proven safety arm design
 - Safety arm similar to the X-Mark Pro
- Provide a translating trigger block with an adjustment screw

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[Results]

- Met our design objectives and in addition:
 - Kept total part count in the fire control unchanged
 - Kept the cost of new fire control equivalent to cost of current assembly

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[Part Breakdown]

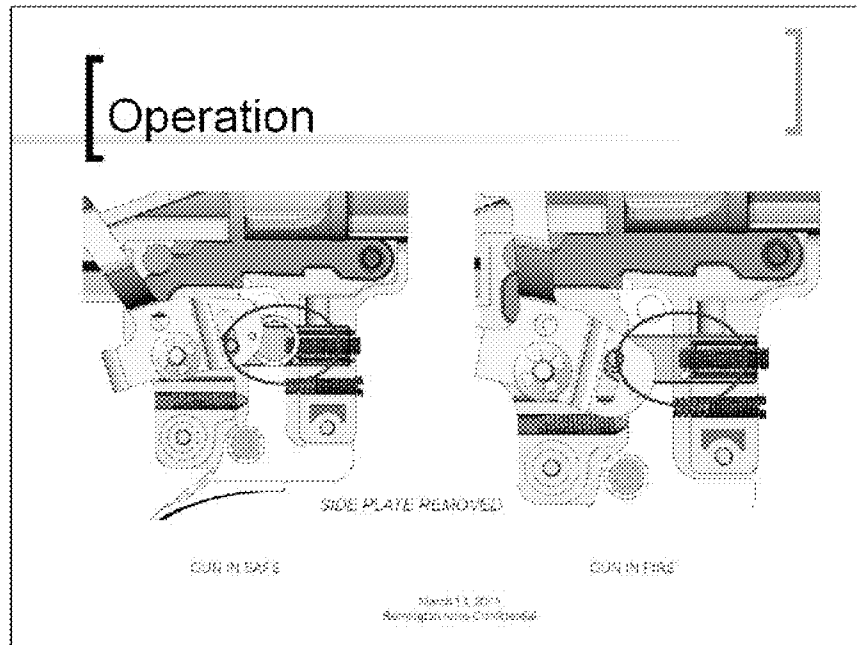
- New Parts
 - Trigger Block
 - Trigger Block Screw
- Modified or Substituted Parts
 - Receiver Insert
 - Side Plate
 - Trigger
 - Safety Arm
 - Safety Detent Spring
 - Safety Pivot Pin
 - Engagement Screw
- Obsolete Parts
 - Over Travel Screw
 - Connector

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[Tooling Required]

- ※ Receiver Insert
 - New injection molding tool
- ※ Trigger
 - New MIM tool
- ※ Trigger Block
 - New MIM tool
- ※ Side Plate
 - New stamping tool
- ※ Safety Arm
 - New stamping tool

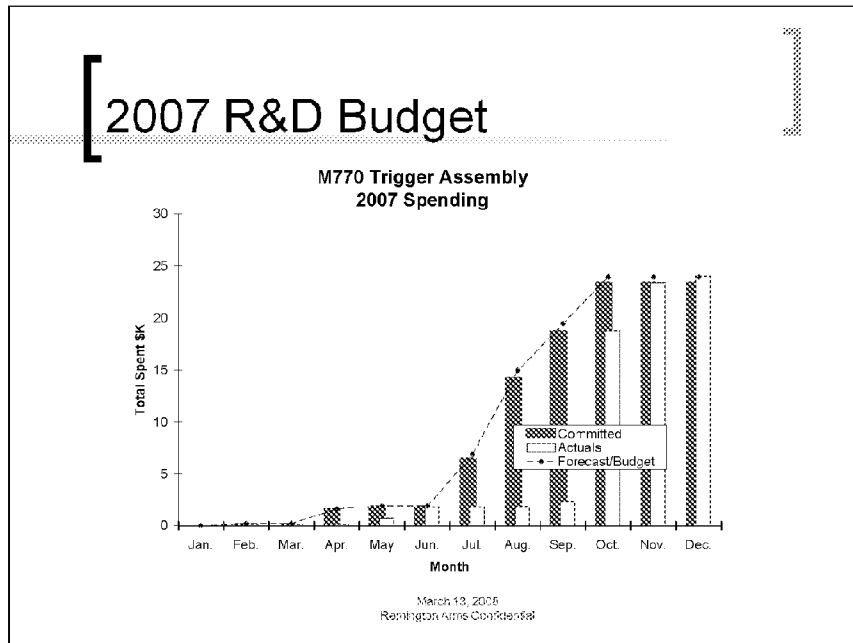
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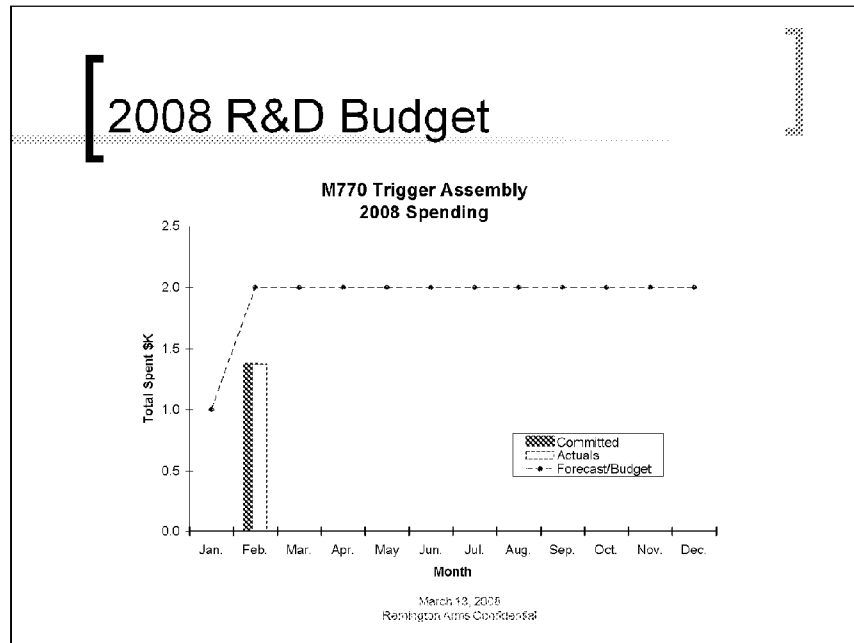


[Project History]

- ※ Prove out concept using rapid prototypes (2 guns)
 - Complete – January 9, 2007
- ※ EET (3 guns)
 - Complete – June 8, 2007
- ※ DAT (20 Guns)
 - Completed November 16
 - 20 Model 770's tested
 - ※ Function testing of 10 Model 770's in 30-06
 - ※ Drop testing of 5 each .243 WIN and 7mm REM MAG

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[Production Budget]

- Capital Tooling Cost - \$203,186
- Operations Cost - \$1,700

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[Status]

- ✦ CAR has been written and approved
- ✦ Production tools are currently being ordered

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[Schedule]

- Production parts available
 - September 1, 2008
- First Production Build
 - October 1, 2008
- T&P Complete
 - November 1, 2008

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