

## [ Design Objectives ]

- Design a less expensive alternative to the X-Mark Pro for the Model 770
- Keep the same safety features of the X-Mark Pro
  - Block trigger when gun is in safe
  - Return the trigger when put in safe
  - Remove the connector
  - Balance trigger

November 2015  
Remington Arms Company

## [ Design Approach ]

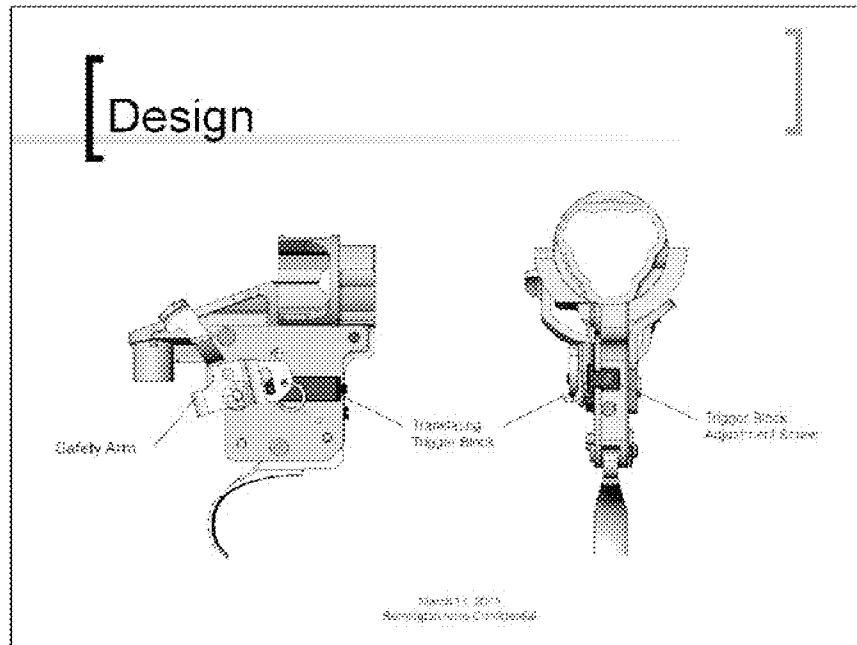
- Add as few new parts as possible
- Keep the current concept of a plastic receiver insert
- Utilize a proven safety design
  - Safety arm similar to the X-Mark Pro
- Provide a translating trigger block with an adjustment screw

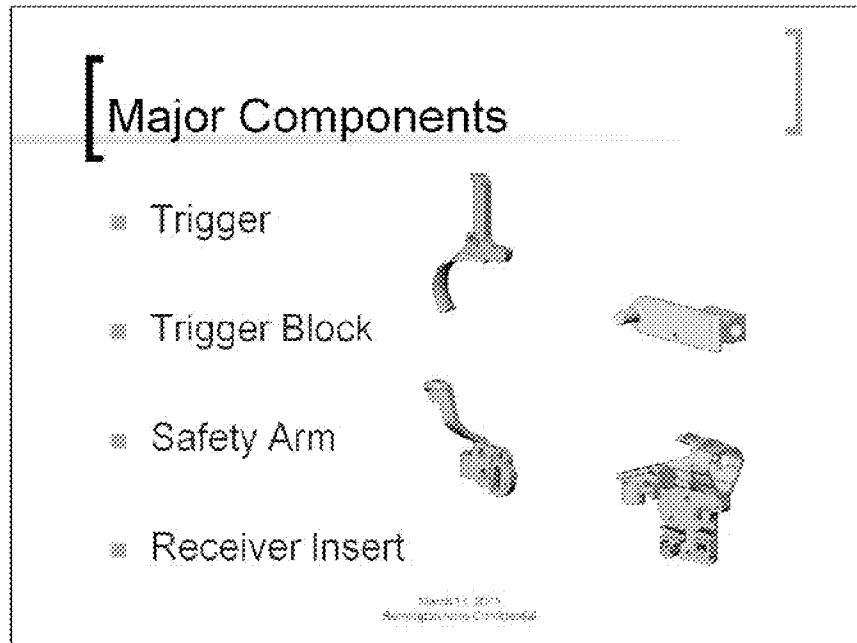
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## [ Results ]

- ✦ Designed and tested a new fire control with the following benefits
  - Trigger is returned and blocked when moving from fire to safe
  - Connector is gone improving assembly and reducing scrap
  - Total part count is unchanged
  - Cost of new fire control is equivalent to cost of current product
    - ✦ Did not increase the cost to manufacture the gun

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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

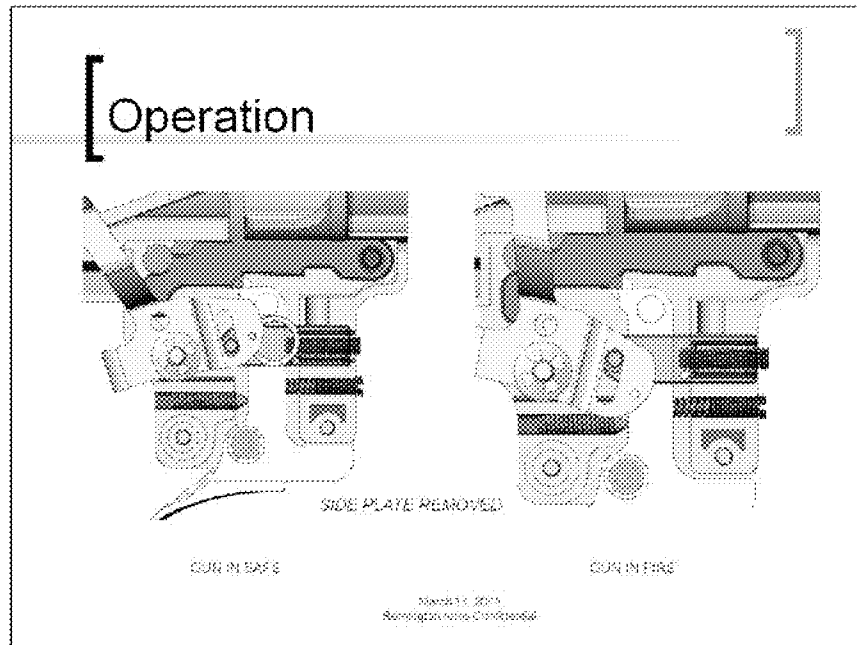
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## [ Tooling Required ]

- Receiver Insert
  - New injection molding tool
- Trigger and Trigger Block
  - New MIM tool required for both
- Side Plate
  - New stamping tool
- Safety Arm
  - New stamping tool

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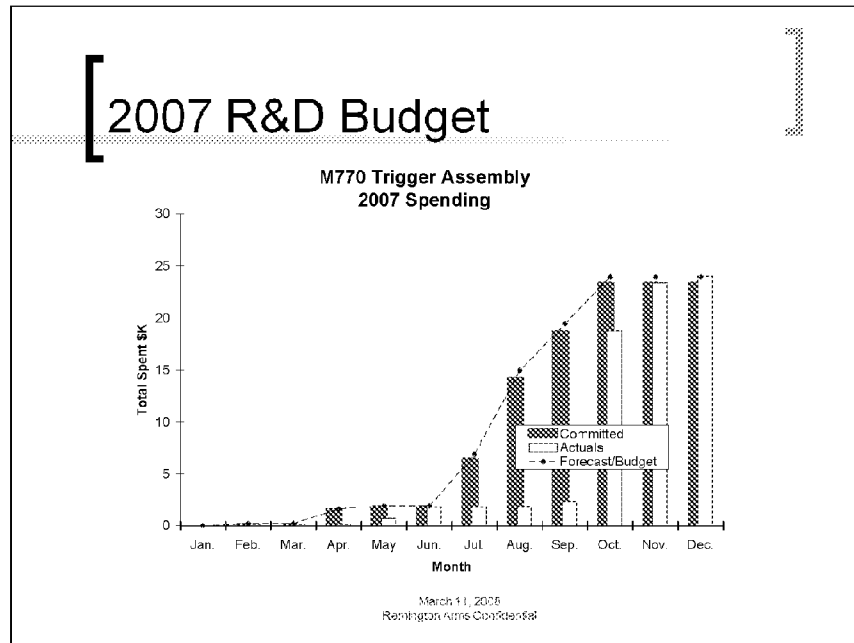


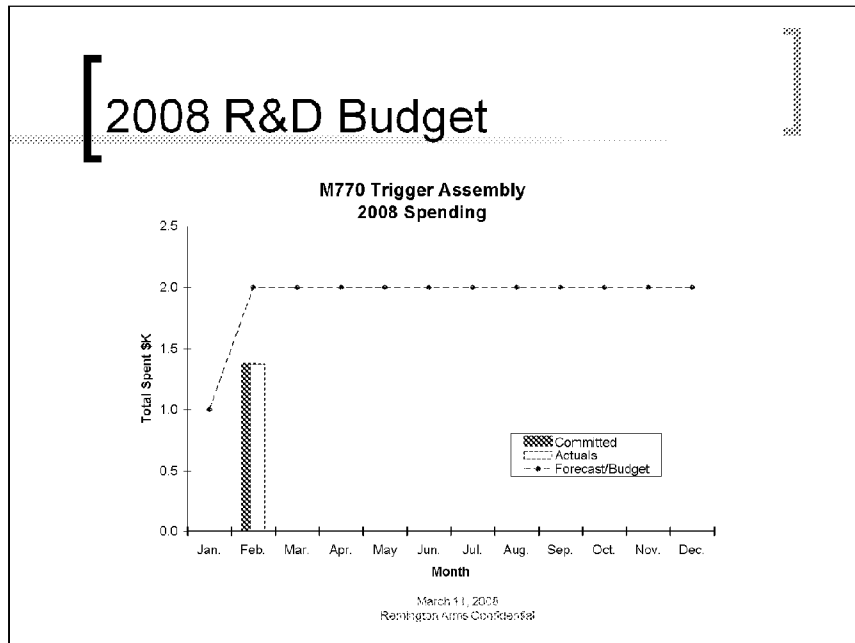


## [ Project History ]

- ※ 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

November 2007  
Remington-Union Carbide





## [ Production Budget ]

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

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## [ Status ]

- Production tools are currently being ordered

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## [ Schedule ]

- ※ Order Production Tooling
  - March 14, 2008
- ※ Production Tooling Complete and FAS approvals
  - July 31, 2008
- ※ Production parts available
  - August 29, 2008
- ※ First Production Build
  - September 30, 2008
- ※ T&P Complete
  - October 31, 2008

March 14, 2008  
Remington Arms Company