

***40X SPL Replacement
Trigger Assembly***

Jim Ronkainen

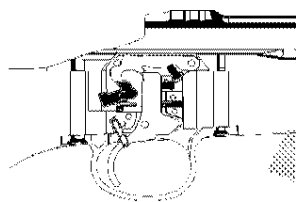
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Approach

- Use SPL design as starting point
- Minimize creation of new parts
- Meet performance metrics of current XR-100 trigger assembly

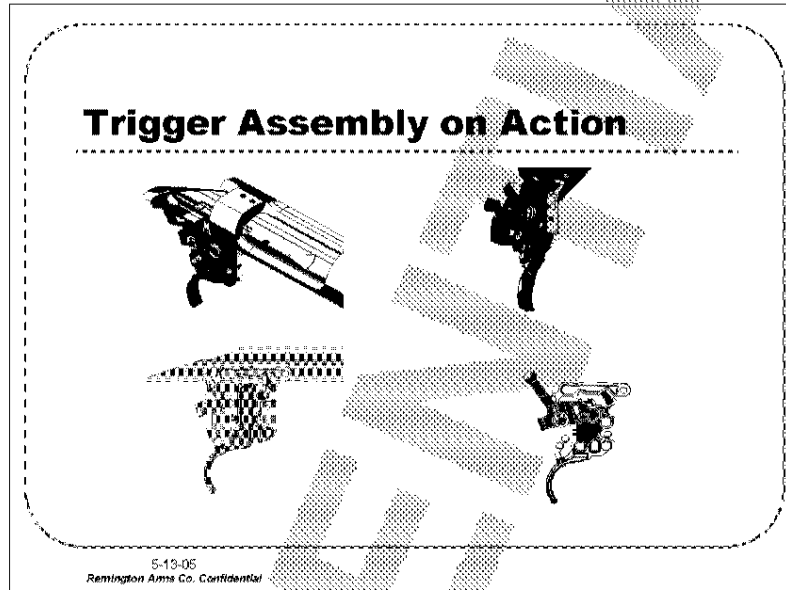
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Design Highlights



- "Plug compatible" with current trigger assembly
- Minimizes use of new parts
- Adjustment spring is permanently captured in trigger assembly, even if adjustment screw is removed
- Provides better access for trigger pull adjustment than current design

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Design Details

UNCLASSIFIED

New Trigger Face

New Baseline Trigger Pull

New Trigger Pull

New Trigger

New Baseline Trigger Pull

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Trigger Housing



- Rear spacer of LH side plate removed and replaced with PM rear spacer

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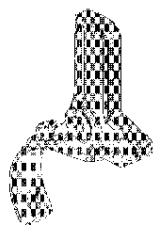
Rear Spacer



- PM part with rivet holes in blank (same concept as current trigger assembly)
- Engagement screw hole and trigger pull adjustment spring done after assembly

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Trigger



- Design same as current SPL trigger except screw boss molded as part of trigger blank

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Schedule

ID	Task Name	Duration	Start	Finish
1	dx SPL Trigger Assembly	157 days	Wed 4/27/05	Thu 12/1/05
2	Design	33 days	Fri 5/13/05	Tue 6/14/05
11	Build BRT	57 days	Wed 4/27/05	Thu 6/23/05
20	Engineering Evaluation Test	15 days	Fri 7/1/05	Thu 7/21/05
30	Redesign	15 days	Fri 7/22/05	Thu 8/11/05
02	Build DAT	69 days	Fri 8/12/05	Thu 9/29/05
39	Design Acceptance Test	20 days	Fri 11/4/05	Thu 12/1/05

- Program timing tied to SPL T&P to provide parts
- Use of internal resources wherever possible to gain upfront experience with design

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Status

- Initial design complete
- Sample two piece prototype trigger made
- Remaining SPL parts on order with plant
- **Note: this project is unbudgeted**

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