
M E M O R A N D U M

DATE: January 19, 1999
TO: J. Mead, J. Rabbia
FROM: Mike Santillo
RE: M/710 Cosmetic Review
CC: D Diaz, J Bunting, J. Balio, M. Keeney, C. Piccini

The M/710 cosmetic review held in Elizabethtown was based on the prototype generated by Marketing's required feature specifications. This meeting encompassed a full review of each item in the gun starting at the muzzle working to the recoil pad. The following is a synopsis of the items discussed 83

I. Barrel Assembly

- A. Crown: Add use M/700 Mountain Rifle Crown
- B. Front Sight: Add use M/700 ADL Synthetic w/ painted white dot
- C. Barrel Contour:
- Needs to be distinctly different from M/700
 - Maintain proposed M/710 form as close as possible through GFM without finish turn
- D. Rear Sight Assy:
- Add use SPTS 78
 - Need graduations for height on aperture face; M. Santillo to confirm with F. Ogrodnik & send marked-up print to M. Keeney
- E. Receiver: Current design acceptable; Receiver to Bolt Plug transition must be flush or bolt plug to be lower (worst case)
- F. Bolt Stop: Current design acceptable
- Must be metal (Heat treated PM part).
 - Detent system cannot "wear out" after extensive use
 - Must produce an audible snap when engaged.
- G. Receiver Insert: Current design acceptable w/ 1 exception; Outside tang corners to be radiused for easy transition to potential wood stock offering.

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II. Bolt Assembly

A. Bolt Handle: Current design unacceptable

- Part needs a longer more traditional look (Round ball style w/ rearward sweep).
- Marketing worked with C. Piccini to develop a "look" that was acceptable.
 - Part drawing to be changed and forwarded to Ilion
- Handle will remain a screw machine part & need to be bent (as in M/514) to achieve form.
- Casting was discussed & discouraged due to cost.

B. Bolt Plug: Current design unacceptable

- Needs aesthetic work to remove squareness; needs to be rounded.
- E'town to rapid prototype sample parts based on Marketing's work with C. Piccini

III. Stock Assembly

A. Stock:

- M/99 vendor to build M/710 model
- M/710 not to be digitized from prototype
- Material to be polypropylene (same as M/597)
- Brass threaded swing swivel insert use unknown at this time - E'town to test
- Screw bushings will be required for 2 front takedown screws - Add-use M/700 synthetic bushings
 1. Recoil Pad: Add use M/700 ADL Synthetic pad
 2. Grip Cap.
 - Same shape as M/700 w/ new artwork (Remington "R") - Marketing to confirm artwork by mid-April
 - 2 tone design as in M/1187 ("R" in gold)
 3. Trigger Guard: Current design unacceptable
 - Integral to stock
 - Shape to be same as M/700 BDL
 - Witness line required around bow & rear screw hole
 - Must be textured to match metal components (Matte finish)
 4. Mag Latch Opening: Current design acceptable w/ 1 exception
 - Spring mechanism to be concealed from view in stock

IV. Magazine Box

A. Box Bottom Current design acceptable w/ 1 exception

- Finger grooves to be textured for better grip

V. Safety Button - Add use M/700

VI. Fit Margins

A. BBL Assy to Stock .015 max. & Uniform

In review of this meeting there are 3 critical paths that will require resolution ASAP. These are the barrel contour, bolt handle design and the bolt plug design. The cosmetic alterations to the components discussed will have an impact on cost and possibly lead time. If you have any questions regarding these notes please contact me.

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