

Remington Arms Company, Inc.  
March 2, 1999

**CONFIDENTIAL**

Research and Development Technology Center  
Elizabethtown, Kentucky

To: John Balio  
CC: D. Diaz, J. Bunting, J. Mead

Subject: Bolt Handle and Bolt Plug Cosmetics

Per our phone conversation of 3/01/99, I understood the issues as follows.

**Bolt Handle** - Based on the two samples supplied, one having downward sweep and one having downward and rearward sweep, the desirable contour is downward and rearward sweep. The size and contour of the bolt handle (ball diameter, neck diameter, and hub diameter) is accepted, the bolt handle must extend straight from the bolt body beyond the external surface of the stock and then sweep downward and rearward. The rapid prototype bolt handle appeared to sweep within the stock clearance cut, producing nonsymmetrical margins.

The bolt handle will be produced via a screw machine, with the sweeps generated by a secondary pressing operation, therefore, the point of bending for the sweeps will dictate margins within the stock regions. During development of the bending operation, close attention to the margins will be required. The blank bolt handle drawing, indicating the component to be produced by the screw machine, will be completed based on this approved geometry.

**Bolt Plug** - An acceptable bolt plug geometry has not been determined. Based on a sample hand filed by Marketing, R&D will attempt to reduce the overall size, maintaining the contour of the Marketing sample. Rapid prototypes of the new geometry will be supplied to Marketing, if unacceptable, Marketing will be required to visit R&D to determine the final geometry.

Not communicated during phone conversation but important. A decision must be made by 3/31/99.

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