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Remington Arms Company Ind Research & Development Technical, Center 315 West Ring Road Elizabethtown, KY 42701

3.1.6 Firearms Measurements

3.1.6.1 TLW0010V – Chamber Cast

Casts of the chamber were made using Cerrosafe<sup>™</sup>. casts and the 30<sup>°°</sup> optical comparator for measurements.

Five chamber dimensions were surveyed using the

4728/.4708 (1.) Rifle .4440/.4425 (1.) 34 des. 30" <u>34247,3404 (1.)</u> .3105/.3095 (1.) B-1 4694 4430 34.09 3435 3086 B-2 34.67 3441 3103 .4692 4440 .4704 .4434 3446 3085 B-3 34:40 3433 3101 B-4 .4709 4442 344 B-5 .4695 .4430 34:26 3424 3096 B-6 .4704 4432 34.50 .3436 .3096 **B-7** 4432 34.59 .3436 .3099 .46684448 34,59 B-8 .4707 3444 3100 B-9 .4701 4448 34: SK 3445 3099 4447 34.33 B-10 .4704 .3447 .3108 34.45 .3097 Average .4698 .4438 .3440 .4709 4448 34.67 .3447 .3108 Max. Min. .4668 .4430 34.09 .3424 .3085 St. Dev. 0.0012 .0008 0.18 .0007 .0007 Notes:

Chamber	Dimensions	(LB-153)

1. Dimensions could not be taken from the contract the specification. Do not compare to specification.

Dimensions taken using this method indicated that there were several firearms in the sample that did not meet specifications. After investigation it is probable that the measurements that are indicated as being out of tolerance were due to measurement error due to the lack of a physical reference to the bolt face which could not be located using only the castings. Longitudinal specifications as listed on the drawing are taken from the bolt face and are used to determine the location for taking the diameters listed above. This issue was discussed with production. Production stated that their review of the tooling indicated that the dimensions for the chamber were correct. This, along with the lack of performance problems sharing testing with the firearms that could be assigned to the chamber, would suggest that the measurements taken using the cast method are probably in error and that the measurements of the production tooling are a better investil measure of the chamber dimensions. *(See Section TLW0010V; B.2)* 

Ban.2001 Design Acceptance Test Remington M/710 Centerfire Rifle;
R & D Technical Center Project No. 241039; TLW 0100
file: E:\Test Reports \Firearms Tests \M710\_DAT\_REPORT\_JAN01\_Rev1.doc
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Subject to Protective Order - Williams v. Remington

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