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Remington Arms Company Inc.  
RESEARCH & DEVELOPMENT TECHNICAL CENTER  
315 WEST RING ROAD  
ELIZABETHTOWN, KY 42701



Figure 2. Image of a magazine box, which did not fail the welds, but did fail the magazine box material during the weld strength testing process.

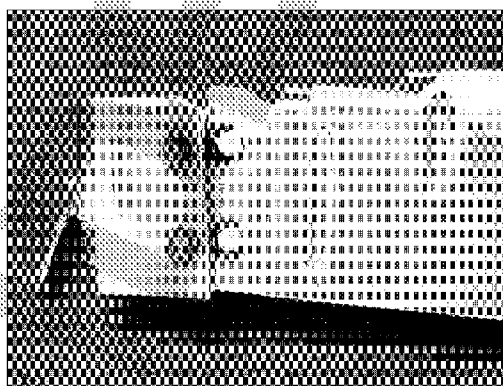


Figure 3. Image of a magazine box, which did fail the welds during the weld strength testing. Note the partial failure of the material at the front of the box as well.

**PROCEDURE:**

A total sample of ten magazine boxes was tested to failure. As shown in Figure 1, the magazine boxes were loaded into the Instron tensile testing machine using two pins which passed through the ends of the magazine box and a small block which was meant to keep the front of the box square under the loading conditions.

The welds were strong enough, however, to allow the magazine box to deform around the block and tear along the front edge of the magazine box. An example of this type of failure is shown in Figure 2. By removing the block, the magazine box was

Jan. '01 Trial & Pilot Test Remington M710 Centerfire Rifle;  
R & D Technical Center Project No. 241039; TLW 0300  
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