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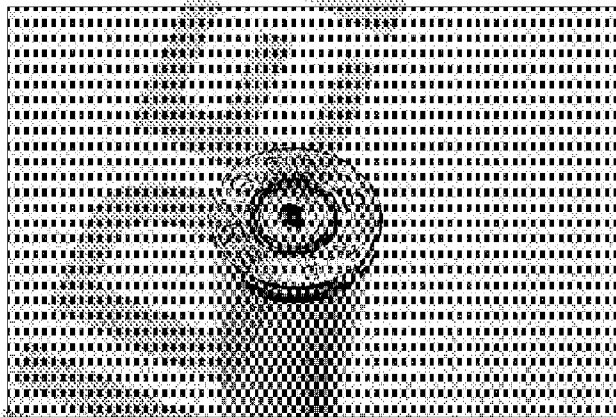
TLW0010

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3.5.2 Intentional abuse

3.5.2.1 TLW0010AW – Pierced Primer Test

For this test, a firing pin was altered to make a "wedge-shaped" point. This type of firing pin point usually produces a pierced primer when fired. The purpose of piercing the primer is to allow high-pressure gases to escape into the action and thereby determine the effect of high-pressure gases when dumped into the bolt, magazine box and receiver areas. A standard round of .30-06 ammunition was used for this test. To determine if escaping gas pressure ejects particles that might hit a shooter witness paper is placed just behind the rifle. There were no indications of particles being blown back toward the shooter when this test was conducted.



Pierced Primer Test

3.5.2.2 TLW0010AX – High Pressure Test

This test evaluated the effects of extremely high pressure on the strength of the rifle system. A purpose of this test is to determine the extent of damage that might occur if an individual purposely or accidentally produces a handload that generates a load approximately twice normal factory load pressure. The approximate pressure generated in this test is in the range of 120,000 psi. Although the bolt handle broke off the bolt, the bolt lugs held as did the locking lug area of the receiver. It is believed that the bolt handle was broken during the test when the lanyards used

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