

**CONFIDENTIAL**

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

**TLW 1012**Data Required:

- Record temperature and exposure times
- Record all malfunctions.
- Record damage noted during inspection
- Record all necessary maintenance actions performed
- TLW Number
- Testers' Names

**TLW1012AE - Cold Function Test:**

This test evaluates the effect of extreme low temperatures on the functioning performance of the firearms.

Method:

- Use one rifle from the submitted sample.
- Condition the firearm and 126 rounds of ammunition in climatic chamber for at least 6 hours at a temperature of -20 degrees F.
- Use the ammunition schedule listed in TLW1012X.
- Test each firearm as follows:
- Remove from chamber and move to Function and Casualty Range for testing.
- Fire 18 rounds of ammunition. Return sample rifle to the chamber and recondition at -20 degrees F for 2 hours and repeat, shooting 18 rounds per test cycle, until all 126 rounds have been fired.
- Do not perform maintenance during the 126 round cycles.
- Cycle the safety from fire to safe every 6 rounds.
- After 126 rounds have been fired through the firearm, remove the firearm from the conditioning chamber, disassemble, thoroughly inspect, clean and lubricate.

Data Required:

- Record temperature and exposure times
- Record all malfunctions.
- Record damage noted during inspection
- Record all necessary maintenance actions performed
- TLW Number
- Testers' Names

**TLW1012AF - Thermal Cycle Test:**

This test evaluates the effects of large temperature changes due to expansion and contraction differentials of metallic and non-metallic components used in the test guns. The sample rifle will be alternately cycled between a temperature of 120°F and -20°F for at least 3 complete cycles (i.e. raised to 120° F and then lowered to -20° F will count as '1 cycle'), brought back to ambient temperature and test fired in the test jacks for 126 rounds to evaluate for possible changes in both function and safety related characteristics.

Method:

- Shoot sample rifle in test jack to establish the rifle's malfunction characteristics and rate. Shoot a total of 126 rounds to determine malfunction rate.
- Do not clean rifle

J.R. Snedeker

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