

DROP TESTS/JAR-OFF TESTS

LUBRICATION PROCEDURE

A. BOLT ACTION FIREARMS:

- o Clean and degrease trigger assembly as a unit using Stoddard Solvent and/or Inhibisol.
- o Blow dry unit with air hose.
- o Spray the four points of the trigger assembly with Du Pont Teflon Wet Lubricant. Let stand for 15 minutes and shake off excess lubricant.
- o Lubrication Points - See Figure 1
 1. Sear Safety Cam
 2. Rearward open area of housing
 3. Bottom open area of housing around trigger
 4. Inspection view hole on side of housing

B. COMMON FIRE CONTROL:

- o Clean and degrease fire control assembly as a unit using Stoddard Solvent and/or Inhibisol.
- o Blow dry unit with air hose.
- o Spray the four points of the fire control assembly with Du Pont Teflon Wet Lubricant.
- o Let stand for 15 minutes and shake off excess lubricant.
- o Lubrication Points - See Figure 2
 1. Remove rear trigger plate bushing and lubricate trigger pivot pin.
 2. Trigger/Connector pin.
 3. Hammer/Sear notch area.
 4. Hammer pivot pin.

Drop Tests/Jar-Off Tests
Lubrication Procedure

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C. OTHER FIREARMS AND COMPETITIVE:

- o Clean and degrease fire control assembly as a unit using Stoddard Solvent and/or Inhibisol.
- o Blow dry unit with air hose.
- o Spray the important areas of the fire control assembly with Du Pont Teflon Wet Lubricant. Let stand for 15 minutes and shake off excess lubricant.
- o Important areas -
 - o Trigger pivot
 - o Sear pivot
 - o Hammer pivot) depending
 - o Hammer/sear contact points) on
 - o Connector pivot points) design

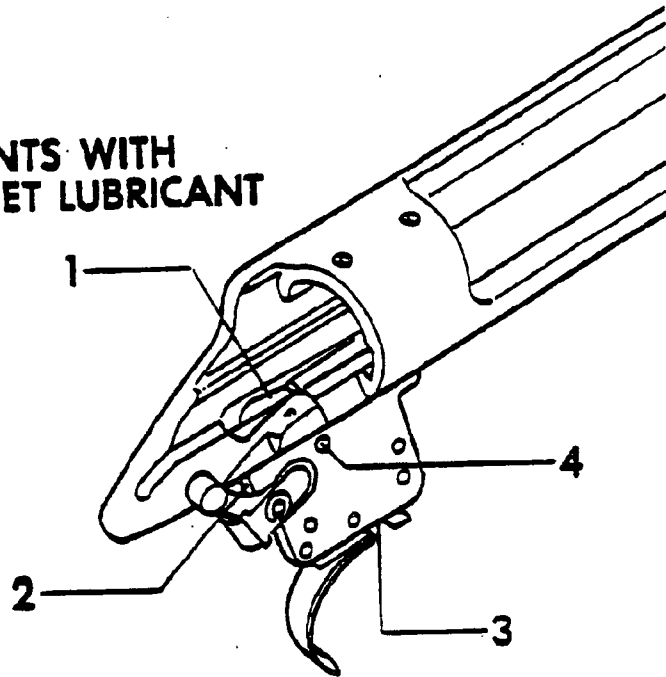
D. SPECIAL LUBRICATION:

Periodically the technician will have to deviate from established lubrication practices to conform with special requests from engineers and supervision.

BOLT ACTION
LUBRICATION POINTS

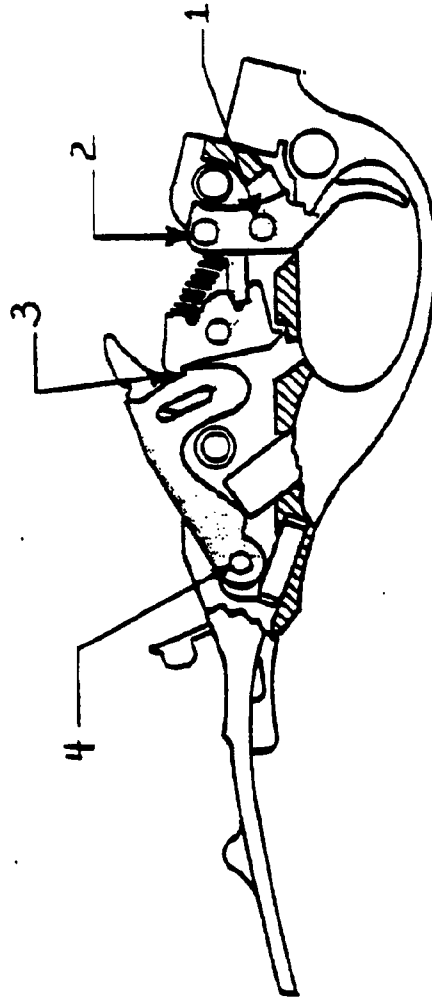
FIGURE - 1

SPRAY THE 4 POINTS WITH
DUPONT TEFLON WET LUBRICANT



COMMON FIRE CONTROL
LUBRICATION POINTS

FIGURE 2



DROP TESTS FOR RIFLES AND SHOTGUNS

This test is to simulate abusive dropping of the firearm.

1. Drop Test - With the firearm in the "safe carrying" condition as defined in the Owner's Manual for the firearm being tested, the firearm should be capable of passing the below test criteria for drop testing from a height of four feet (1.22 meters) onto a 50-60 Durometer, Shore A, rubber mat, one-inch thick (2.54 centimeters) backed by concrete. The mat and concrete shall be large enough so that when the gun is dropped it will fall and come to rest without interference within the perimeter of the mat. The four feet (1.22 meters) shall be measured from the surface of the rubber mat to the center of gravity of the firearm. As an alternate to free dropping, other methods may be substituted if they provide equivalent impact characteristics. The firearm shall be re-cocked and re-set in the "Safe Carrying" condition after each drop or a separate firearm may be used for each drop.
2. Criteria - The firearm shall not fire an empty primed case of its designated cartridge when tested in accordance with this procedure. Parts breakage or other damage as a result of drop testing does not constitute failure as long as the empty primed case does not fire and the firearm can be unloaded safely after each drop. The firearm will be re-cocked and reset in the "safe" condition after each drop or a separate firearm may be used for each drop.
3. Test Procedure - The firearm or firearms shall be dropped in such a way as to strike the rubber mat surface in each of the following attitudes:
 - (a) Barrel vertical, muzzle down.
 - (b) Barrel vertical, muzzle up.
 - (c) Barrel horizontal, bottom up.
 - (d) Barrel horizontal, bottom down.
 - (e) Barrel horizontal, left side up.
 - (f) Barrel horizontal, right side up.
4. Testing of firearms which are designed to have a trigger pull force below three pounds (1.36 kg) is not covered by this procedure.

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As approved/adopted 2/1/83 by SAAMI Executive Committee for inclusion in Volumes VI through I, SAAMI TECHNICAL COMMITTEE MANUAL.

Attachment "A" to
Minutes of Meeting
SAAMI President's Committee Task Force -
Firearm Firearms & Ammunition
Dallas, Texas - January 4, 1983

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5. Tests shall be conducted with the trigger pull force set at the minimum force specified by the manufacturer.
6. The test shall be conducted with the magazine or clip fully loaded with dummy cartridges and inserted in the firearm. It is recommended that firearm weight variations introduced by combinations of accessories catalogued by the gun manufacturer be considered.

DRAFT 12-16-82

Attachment "1" to
Minutes of Meeting
SACU Products Research Task Force -
Donald F. JAMES & Associates
Dallas, Texas - January 4, 1963

As approved/adopted 2/1/83 by SAAMI Executive Committee for inclusion in Volumes VI through X, SAAMI TECHNICAL COMMITTEE MANUAL.

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JAR-OFF TEST FOR RIFLES AND SHOTGUNS

This test is to simulate the abusive impacting (bumping) of the firearms against a hard surface with the firearm in a condition of maximum readiness.

1. Jar-Off Test - With the firearm cocked and in the ready-to-fire condition (Safe "OFF") as defined in the Owner's Manual for the firearm being tested, the firearm should be capable of withstanding jar-off shock equivalent to being dropped from a height of twelve inches (.305 meters) onto a 30-60 Durometer, Shore A, rubber mat, one-inch thick (2.54 centimeters) backed by concrete. The mat and concrete shall be large enough so that when the gun is dropped it will fall within the perimeter of the mat striking the mat case. The twelve inches (.305 meters) will be measured from the test surface to the lowest point on the firearm. As an alternate to free dropping, other methods may be substituted if they provide equivalent impact characteristics. The firearm shall be re-cocked and re-set in the ready-to-fire condition after each drop or a separate firearm may be used for each drop.
2. Criteria - The firearm shall not fire an empty primed case of its designated cartridge when tested in accordance with this procedure. Parts breakage or other damage as a result of drop testing does not constitute failure as long as the empty primed case does not fire and the firearm can be unloaded safely after each drop. The firearm will be re-cocked and reset in the "Safe" condition after each drop or a separate firearm may be used for each drop.
3. Test Procedure - The firearm or firearms shall be dropped in such a way as to cause it to strike the rubber mat surface in each of the following attitudes:
 - (a) barrel vertical, muzzle down.
 - (b) barrel vertical, muzzle up.
 - (c) barrel horizontal, bottom up.
 - (d) barrel horizontal, bottom down.
 - (e) barrel horizontal, left side up.
 - (f) barrel horizontal, right side up.
4. Testing of firearms which are designed to have a trigger pull force below three pounds (1.36 kg) is not covered by this procedure.

ATTACHMENT "A" IS
 PART OF THE
 SAAMI PROPOSED STANDARD TEST PROCEDURE -
 Shoulder Firearms & Accessories
 Dallas, Texas - January 4, 1983

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As approved/adopted 2/1/83 by SAAMI Executive Committee for inclusion in Volumes VI through X, SAAMI TECHNICAL COMMITTEE MANUAL.

EXHIBIT "A"

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5. Tests shall be conducted with the trigger pull force set at the minimum force specified by the manufacturer.
6. The test shall be conducted with the magazine or clip fully loaded with dummy cartridges and inserted in the firearm. It is recommended that firearm weight variations introduced by combinations of accessories catalogued by the gun manufacturer be considered.

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ATTACHMENT "A" to
MINIMUM of TESTING
SAAMI Proforma Standards Test Form -
Shoulder Firearms & Ammunition
Dallas, Texas - January 8, 1983

As approved/adopted 2/1/83 by SAAMI Executive Committee for inclusion in
Volumes VI through X, SAAMI TECHNICAL COMMITTEE MANUAL.