

GTA# GTA 43-01-004

Howitzer, Light, Towed, 105MM, M119A2 **HOT WEATHER /DESERT OPERATION**

Information is contained in TM 9-1015-252-10 for dated 2 Aug 2002 under Operation under unusual conditions WP-0030 Page 00-1 and 00-2.

This abbreviated checklist is not to be used as a replacement for the -10 series Tech Manuals or any other PMCS guide.

OPERATION IN EXTREME HOT WEATHER CONDITIONS

1. Problems.

- a. In hot climates, film of oil necessary for operation and preservation will disappear. Inspect howitzer daily, paying particular attention to hidden surfaces, such as bore and chamber, springs, spring seats, firing pin, and other places where corrosion might occur and not be noticed.
- b. Perspiration from hands can cause rusting. After handling howitzer components, clean, wipe dry, and lubricate.

2. Ammunition Problems.

- a. Since explosives are adversely affected by high temperatures, ammunition must be protected from sources of high temperature including direct rays of sun. Elements in primers and fuzes are particularly sensitive to high temperature.

Howitzer, Light, Towed, 105MM, M119A2

2. Ammunition Problems

- b. Whenever practicable, white-phosphorus-loaded smoke projectiles should be stored at temperatures below melting point (+111.4 degrees F) (+44.11 degrees C) of white phosphorus filler. If not practicable, white phosphorus rounds should be stored on their bases so that if white phosphorus filler melts it will resolidify with void spaces in normal position (in projectile nose) when temperature falls below its melting point. Premature explosions have been caused by voids in base end of white phosphorus projectile. Erratic performance may result from voids in its side. Refer to WP 0066 00 for precautions in handling ammunition in high temperature.
3. Tires. Keep tires covered with available materials to prevent direct contact of sun's rays, excessive air pressure, and rubber deterioration. Correct tire pressure is listed in WP 000200.

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OPERATION IN HOT, DAMP, AND SALTY ATMOSPHERE

1. Inspect howitzer daily when operated in hot, moist, and salty areas.
2. When howitzer is active, clean and lubricate bore and exposed metal surfaces daily.
3. Moist and salty atmospheres can destroy rust-preventive qualities of oils and greases. Inspect parts daily for corrosion. Keep covers in place if firing conditions permit.

CAUTION

Never use gasoline or any solvent to remove oil or grease spots from canvas covers.

Canvas deteriorates in this atmosphere. Wet canvas should be dried thoroughly before folding to prevent mildew and deterioration.

4. For care and cleaning of canvas, refer to FM 21-15.
5. When howitzer is inactive, unpainted parts should be covered with film of CLP (item 11, WP 0055 00). Covers should be in place.