

## BRADLEY FIGHTING VEHICLES

### FIRE CONTROL (CONTINUED)

5. Fire TOW missile only when temperature is greater than -25 F (-32 C) and target can be seen or tracked through ISU. See Fire TOW Missiles in TM 9-2350-252-10-2, TM 9-2350-284-10-2, TM 9-2350-284-10-2-1, or TM 9-2350-294-10-2.

**CAUTION:** TOW missile may be damaged if electrical connectors get wet when TOW launcher is unloaded. Install covers on electrical connectors after unloading TOW launcher so that connectors do not get wet.

6. Replace electrical connector cover after unloading TOW launcher. See Unload TOW launcher in TM 9-2350-252-10-2, TM 9-2350-284-10-2, TM 9-2350-284-10-2-1, or TM 9-2350-294-10-2.

**WARNING:** Soldiers can be killed or injured if smoke grenades are fired when ice is holding grenades in launchers. Do not fire smoke grenades are held in launcher tubes by ice.

7. Check grenade launcher tubes for ice buildup. Keep discharger caps on grenade launcher tubes until ready for firing.

### TURRET OPERATION

**WARNING:** Contact with cold metal can cause frostbite. Do not touch cold metal with bare skin.

**CAUTION:** Turret motors and drives can get damaged if turret is operated in extremely cold temperature. Do not operate turret in extremely cold temperatures below -25 F (-32 C) without running engine and personnel heater.

1. Operate turret manually when engine is not running. Refer to Operate Turret Manually in TM 9-2350-252-10-2, TM 9-2350-284-10-2, TM 9-2350-284-10-2-1, or TM 9-2350-294-10-2.

## BRADLEY FIGHTING VEHICLES

### TURRET OPERATION (CONTINUED)

2. Perform Preventive Maintenance Checks and Services (PMCS) on a regular basis. Refer to TM 9-2350-252-10-2, TM 9-2350-284-10-2, TM 9-2350-284-10-2-1, or TM 9-2350-294-10-2.

**WARNING:** Soldiers can be killed or injured if gun is fired when barrel is obstructed by ice. Make sure 25mm and coax machine gun barrels are clear of ice before firing.

3. Manually depress 25mm gun to -160 mils when not in use. Refer to Operate Turret Manually in TM 9-2350-252-10-2, TM 9-2350-284-10-2, TM 9-2350-284-10-2-1, or TM 9-2350-294-10-2.

4. Keep ballistic sight shield doors closed when ISU/TAS is not in use. Do not scrape ice or snow from ISU windows. Use isopropyl alcohol and a soft cloth.

5. Keep CIV stored when not in use (A3).

6. Keep tarpaulin on vehicle when vehicle is not in use.

### M242 MACHINE GUN

**CAUTION:** When temperature is below -25 F (-32 C), GMD can cause barrel support bearing and breech locking lugs to stick. When temperature is below -25 F (-32 C), use LAW on barrel support bearing and breech locking lugs.

1. Lubricate barrel support bearing and breech locking lugs.  
a. If temperature is above -25 F (-32 C), put heavy coat of GMD on barrel support bearing and breech locking lugs. Use oval brush.

b. If temperature is below -25 F (-32 C), put a heavy coat of LAW on barrel support bearing and breech locking lugs. Use oval brush.

## BRADLEY FIGHTING VEHICLES

### M242 Chain Gun (CONTINUED)

**CAUTION:** When temperature is below -25 F (-32 C), GMD can cause track rails, slider, master link, and chain to stick. When temperature is below -25 F (-32 C), use LAW on track rails, slider, master link, and chain.

**NOTE:**

Step 2 is done if temperature is above -25 F (-32 C).

Step 3 is done if temperature is below -25 F (-32 C).

2. Lubricate track and bolt assembly if temperature is above -25 F (-32 C).

a. Put light coat of GMD on firing pin, firing pin sleeve, bolt body, cross slot, carrier track (on bolt carrier), and firing pin pawl. Use oval brush.

3. Lubricate track and bolt assembly if temperature is below -25 F (-32 C).

a. Put light coat of LAW on firing pin, firing pin sleeve, bolt body, cross slot, carrier track (on bolt carrier), firing pin pawl, cam pin groove, and firing pin sleeve keeper.

b. Put light coat of LAW on track rails, slider, master link, and chain. Use oval brush.

**CAUTION:** When temperature is below -25 F (-32 C), GMD can cause bolt lugs to stick. When temperature is below -25 F (-32 C), use LAW on bolt lugs.

**NOTE:**

Step 4 is done if temperature is above -25 F (-32 C).

Step 5 is done if temperature is below -25 F (-32 C).

4. If temperature is above -25 F (-32 C), lubricate bolt lugs.

a. Put heavy coat of GMD on bolt lugs. Use oval brush.

5. If temperature is below -25 F (-32 C), lubricate bolt lugs.

a. Put heavy coat of LAW on bolt lugs. Use oval brush.

## BRADLEY FIGHTING VEHICLES

### Opposing Forces Surrogate Vehicle (OSV)/Main Battle Tank (MBT)

#### TURRET OPERATION

**WARNING:** Contact with cold metal and working outside in cold weather can cause frostbite. Gloves and cold weather clothing must be worn in cold conditions.

Personnel must not touch cold metal with bare skin.

**CAUTION:** Turret motors and drive systems can be damaged if turret is operated in extreme cold. Before starting operations, engine must be started and idled to operating temperature and personnel heater started.

Do not operate turret in power mode for extended periods with engine shut off. Lights and electrical equipment shall be off while engine is off. When lights and/or electrical equipment are required on, duration shall be as short as possible. Batteries are drained quickly in cold weather.

**NOTE:** Interior and exterior must be kept dry as possible and free of dirt and debris. Preventive maintenance checks and services must be done when vehicle is shut down and on a regular basis as scheduled. Turret must be in manual operation while turret is shut down.

1. Put turret in manual operating mode.

See TM 9-2350-366-10-

**NOTE:** Gun must be depressed to -160 mils while turret is shut down.

## RADLEY FIGHTING VEHICLES

### Opposing Forces Surrogate Vehicle (OSV)/Main Battle Tank (MBT)

#### TURRET OPERATION (CONTINUED)

2. Manually depress main gun to -160 mils.

See TM 9-2350-366-10-2.

3. Make sure that Tank Thermal Sight (TTS) and M32E1 ballistic sight shield covers are closed.

See TM 9-2350-366-10-2.

4. Make sure vehicle is covered with tarpaulins (or whatever is available) while not in use.

**WARNING:** Looking at sun or bright reflected light through TTS or commander's sight (M32E1) can cause blindness. Filter must be set before personnel look at bright lights.

**NOTE:** Filter in TTS must be adjusted and/or M32E1 opaque disk must be installed before looking through a sight.

5. Operate the TTS and/or M32E1 sight as required. See TM 9-2350-366-10-2.

6. Check that inside and outside sight windows and lens are free of ice, snow, frost, and moisture.

a. Clean interior optical window and lens as required. See TM 9-2350-366-10-2.

b. Clean exterior optical window and lens as required. See TM 9-2350-366-10-2.

## BRADLEY FIGHTING VEHICLES (A0, A2, A2ODS, and A3) COLD WEATHER OPERATION

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

#### FIRE CONTROL

1. Keep rubber caps on gunner's eyepiece when Integrated Sight Unit (ISU) is not in use.

2. Keep rubber caps on commander's eyepiece when ISU is not in use.

**WARNING:** On bright, snowy days, sunshine reflecting off snow can harm your eyes. Sensor select switch should be set to NEUTRAL when using ISU on bright, snowy days.

3. Set sensor select switch to neutral position when using ISU on bright, snowy days.

**NOTE:** Commander's and gunner's eyepieces, unity windows, and periscopes can fog up and cloud your view. Do not breathe on them.

4. Check that both ISU/TAS windows are free of ice, snow, and frost.

a. If they are free of ice, snow, and frost, go to step e.

b. If they are not, use FAN DEFOGGER switch with covers closed to melt ice formations before firing missile.

**NOTE:** TOW missile may miss target if fired at temperatures less than -25 F (-32 C). TOW missile may miss target if target cannot be seen or tracked through ISU/TAS.