

**HEMTT M977 Series**

**COLD WEATHER DESERT OPERATIONS – DECEMBER 2005**

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

**1. PMCS Considerations:**

- a. AOA requires more frequent checks. Vehicle Checks should be conducted at each stop during mission.
- b. Check AOA for missing or loose bolts daily.
- c. Check heating system, if not blowing hot air have maintenance check blower motor operation and heater hoses for leaks prior to mission.
- d. Check air filter for restrictions, damp cold weather can cause the air filter to freeze into a block of ice.
- e. Inspect escape hatch position, latches and hatch hardware for proper placement, operation and wear.
- f. Drain condensation from Air Tanks daily.
- g. Drain Fuel Water Separator Daily. Keep fuel tank to the FULL mark to stop condensation.

**2. Add On Armor Considerations:**

- a. Vehicle handling is impacted by AOA
  - Allow for greater stopping distances due to additional weight of vehicle
  - Additional weight will impact engine exhaust brake operation
  - Reduce Speed prior to negotiating turns.
- b. AOA causes increased wear on Engine, Drive Line, Brakes, Suspension and Steering components.
- c. AOA Reduces visibility, Stay Alert and ensure your Assistant Driver is Alert.

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2. **Add On Armor Considerations (continued):**

- d. Do not park on slopes if possible; the extreme weight of door can cause injury to personnel or equipment.

3. **Cold Temperature Operation:**

- a. Check Fluids Daily (includes batteries).
- b. Check Tire Pressure Daily.
- c. Check Batteries for Cracks.
- d. Replace Engine belts that show any sign of wear.
- e. Clean Air Filters and Radiator fins daily.
- f. Keep Air Conditioner fins free from Dirt and Sand.
- g. Wipe Dirt, Sand, Ice and Snow away from Hyd, Fuel Tank lid, engine oil dipstick & oil fill tube before opening.
- h. Keep Vehicle exterior free from Dirt, Sand, Ice and Snow.
- i. Watch all gauges and indicator lights for proper readings.
- j. Cover windows when not in use. Be careful in removing ice from Ballistic Glass. Allow Defroster to remove ice when possible.
- k. ETHER START. A2 & A2R1 models; press and hold Ether Start button for five seconds, release and wait five seconds before starting engine. Non-A2 models; if outside temperature is below 45 F, press Ether Start button for three seconds, release and wait three seconds before starting engine.

4. **Recommended Fluids and Lubricants:**

- a. Engine: HDO-15W/40, when expected temperatures are above +5 F. Use OEA when consistently below -0 F.
- b. Use a mixture of 40% water and 60% Antifreeze in Radiator. Protects to -50 F.
- c. Transmission: HDO 15W/40.
- d. Lubricate Vehicle as required or sooner as conditions demand (wipe off fitting first).

5. **For questions contact:** [HEMTT@TACOM.ARMY.MIL](mailto:HEMTT@TACOM.ARMY.MIL)