M1A2/SEP TANK

OPERATE TURRET IN EXTREME HEAT continued
4. Cover muzzles with shoot thru materials (Nylon Stocking)
5. Remove any debris around thrust nut/gun mount
6. Clean away any excess lubrication or fluid seepage
7. Check Ball and spring race ring for debris
8. Check hand held fire extinguishers
9. Check ready ammo door seals for wear or damage
10. Remove debris from ammo door rails
11. Check main hydraulic fluid reservoir
12. Inspect replenisher for debris/service
13. Purge Optics
14. Exercise Main Gun monthly
15. Inspect turret lifting device holes have protective bolts installed
16. Clean Gunners Auxiliary Sight
17. Check for any signs of damage from mating surfaces contaminated with debris
18. Check for smooth operation of CWS
19. Check for debris or excess lubrication on breech ring
20. Check MRS updates more often due to changing heat
21. Have/keep extra water containers.

GTA 43-01-009

M1A2/SEP TANK
HOT WEATHER/DESET OPERATIONS

FM 90-3, DESERT OPERATIONS, contains detailed instructions for living and working in the desert.
TM 9-2350-288-10 contains detailed PMCS instructions for proper maintenance and operation. (M1A2)
TM 9-2350-388-10 contains detailed PMCS instructions for proper maintenance and operation. (SEP)

NOTE: A very high standard of maintenance is essential to long term operation under conditions of extreme heat. High temperature can cause early failure of systems. Constant checking is necessary to prevent failures.
This abbreviated checklist is not to be used as a replacement for the -10 series Tech Manuals or any other PMCS guide.

OPERATE ENGINE IN EXTREME HEAT
1. Clean or check Vee packs often.
2. Monitor driver's integrated display (DID) for warning messages.
3. If any warning message or oil levels are ignored, damage may result.
4. Check oil levels frequently.
5. Follow proper engine cool down and shutdown procedures.
6. Run engine at idle for about 2 minutes before shutting down.

M1A2/SEP TANK

OPERATE ENGINE IN EXTREME HEAT (continued)
7.   Idling will cool the engine faster than a quick shutdown
     and may prevent damage from remaining engine heat.
8.   Make sure all air inlets are kept clear to permit
     cooling.
9.   Check all hoses and fittings frequently to insure
     proper fit.
10. Inspect left & right assemblies Cooling Fan
     Assemblies.
11. Remove packed sand from Cooling Fan Drive gear
     boxes and clutches.
12. Start up vehicles regularly to prevent discharge of
     batteries.

MAINTAIN BATTERIES IN EXTREME HEAT
1.   Battery specific gravity must be changed to adjust
     for heat.
2.   Monitor DID for LOW BATTERY CHARGE warning
     or LOW ELECTRICAL SYSTEM VOLTAGE caution messages.
3.   Keep batteries full, but do not overfill.

MAINTAIN OPTICS IN EXTREME DUST, SAND, OR MUD
1.   Clean fire sensor lenses at least every 4 hours in
     extremely dusty conditions.
2.   Optics should remain covered as much as possible
     in these conditions to prevent scratching.
3.   If tactical situation permits, keep GPS ballistic
     doors closed.

M1A2/SEP TANK

MAINTAIN OPTICS IN EXTREME DUST, SAND, OR MUD continued
4. Keep a close eye on DID for caution/warning mes-
   sages, to be sure dust does not affect equipment.

OTHER DESERT OPERATION PMCS
1. Inspect and verify airflow operation of the NBC
   Protection System, Distribution, Compartment Pressure,
   Filtration, Indications and Controls.
2. Check track tension daily.
3. Lubricate suspension items daily, and clean grease
   fittings.
4. Reduce send ingestion by stretching nylon stockings
   over air cleaners.
5. Use high-grade 20W-50 oil: it serves well under
   desert conditions.
6. Check lubrication orders and TM's for the correct vis-
   cosity of lubricants for higher temperatures.
7. Clean sand and dirt away from vehicle.
8. Check fuel cap cartridge frequently.

OPERATE TURRET IN EXTREME HEAT
1. During operation in extreme heat, operate the ther-
   mal management system (SEP).
2. During operation in extreme heat, operate the NBC
   main system (M1A2).
3. Seal inflatable turret seal when not in use if equiped.