

# GTA 43-01-006

## M109 Paladin

### HOT WEATHER/DESERT OPERATION

FM 90-3, DESERT OPERATIONS contains detailed instructions for living and working in the desert.

TM 9-2350-314-10-1 and TM 9-2350-314-10-2 contain detailed PMCS instructions for proper maintenance and operation.

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

**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.

1. Check for any fluid leakage.
2. Check all fluid levels to prevent excessive heating.
3. Ensure track tension is correct to reduce operating resistance.
4. Ensure engine air filters are clean and no air restrictions are present and check air cleaner indicator is within operating limits.
5. Ensure air cleaner doors are in summer position.
6. Ensure all air intake grilles/ Vents are free from any air restrictions.

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7. Check 650 amp alternator belt for fraying or badly worn areas.
8. Check batteries for proper electrolyte/ water level.
9. Ensure engine cooling fans do not have excessive back lash and that no stator blades are missing or have excessive nicks.
10. Ensure radiator core is clean and unobstructed.  
Clean as required using TM 9-2350-314-13&P procedures.
11. Perform regular PMCS to ensure maximum operating performance.
12. If possible use a nylon stocking over any air intake vents to reduce sand ingestion.
13. Wrap a nylon stocking around fuel nozzle during refueling operations to prevent sand and/or dust from entering fuel tank.