

**M915 FOV (Freightliner) COLD WEATHER/DESERT OPERATIONS**  
**- AUGUST 2010**

***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:**

Check AoA daily for missing or loose bolts.

Check heating system. If it's not blowing warm or hot air, have field maintenance check system for leaks prior to mission.

AoA requires more frequent checks. Vehicle checks should be conducted at each stop during mission.

Allow engine temperature to reach 120-140°F before operating vehicle.

Allow engine to idle prior to shutdown to allow cool-down time with extreme heat.

Drain fuel water separator daily.

**2. Add-on armor considerations:**

AoA impacts vehicle handling.

Allow greater stopping distance due to additional weight of vehicle.

Additional weight impacts engine exhaust brake operation.

Reduce speed prior to negotiating turns.

AoA causes excessive wear on engine, driveline, brakes, suspension, and steering components.

AoA reduces visibility. Stay alert and ensure your assistant driver stays alert.

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### **3. Extreme temperature operation:**

Check fluids daily (including batteries).

Check tire pressure daily. For vehicles with CTIS, ensure proper setting is selected for surfaces being traveled over during mission.

Check batteries for cracks.

Replace engine belts that show any sign of wear.

Clean air filters and radiator fins daily.

Keep air conditioner fins free of dirt, sand, and ice.

Wipe dirt, sand, and ice from fuel tank lid before opening it.

Avoid long, continuous high speeds, long, hard pulls, and continuous operation on soft terrain.

Observe all gauges and indicator lights for proper readings.

Drain condensation from air tanks daily.

Check air system dehydrator cartridges more frequently than normal.

On systems with a manual ether start system, push the ether button ONLY while cranking the engine. NOT cranking the engine may create either fume buildup and combustion in the intake manifolds.

### **4. Recommended fluids and lubricants:**

Engine and power steering: Use OE/HDO-10 when ambient temperatures drop below 0°F and OE/HDO-15/40 when ambient temperatures are above 0°F.

Transmission: Use OE/HDO-10 when ambient temperatures drop below -10°F and OE/HDO-15/40 c when ambient temperatures reach above 100°F.

Use a mixture of 50% water and 50% antifreeze in radiator.

Lubricate vehicle and trailer daily. (Wipe off fitting first.)

On vehicles equipped with a winch or dump body, check fluid level daily. Use OE/HDO-10 when ambient temperatures are above -10°F and OEA when ambient temperatures drop below -10°F.

### **5. For questions contact: [eric.s.barnhart@us.army.mil](mailto:eric.s.barnhart@us.army.mil) or [joseph.w.sattler@us.army.mil](mailto:joseph.w.sattler@us.army.mil)**