

**CS-433 TYPE I & II VIBE ROLLER**

**Cold Weather/Desert Operation**

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

**TM 5-3895-382-10** contains detailed PMCS instructions for proper maintenance and operation.

**NOTE: A very high standard of maintenance is essential to long term operation under conditions of extreme cold. Cold temperature can cause early failure of systems. Constant checking is necessary to prevent failures.**

**VEHICLE OPERATION**

1. Clean snow away from outside indicators.
2. Keep windshields clean and free of snow and ice.
3. Allow engine to warm up at LOW IDLE for at least five minutes.
4. Cycle all controls to allow warm oil to circulate through all cylinders and lines.
5. Select transmission gear range that best suits road condition.
6. Give signals sooner.
7. Apply brakes sooner to give early warning of intention to stop and help avoid skidding.
8. Watch indicator and warning lights closely.
9. Drive at lower speeds and accelerate slowly to avoid spinning tires.
10. If approaching a difficult stretch of road, stop and inspect road carefully before driving on it.

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## **VEHICLE OPERATION (continued)**

11. When parking on icy, slushy, wet, or muddy surfaces, place boards, brush, or other materials that will provide traction underneath tires to guard against tires freezing to the ground or becoming pocketed in ice.
12. Store or park in closed garage or building.

## **ENGINE**

1. Base selection of crankcase lubricating oil viscosity on lowest anticipated daily temperature.
2. Start engine often to prevent lubricants from becoming too thick to lubricate.
3. Thoroughly drain water from air tanks and fuel/water separator to prevent freezing in air system.
4. Visually check wiring for worn/cracked insulation and loose terminals.
5. Clean and tighten loose connections on cranking motor, alternator, voltage regulator, solenoid switch, relays and sender units.
6. Fuel tank should be kept full.
7. Check all hoses frequently for any damage and check for damaged or displaced end fittings.
8. Check oil levels frequently.

## **MAINTAIN BATTERIES**

1. Keep batteries at full charge.
2. Add distilled water to the batteries in freezing temperatures only when engine is to operate for several hours to thoroughly mix the water and the electrolyte.

## **TIRES**

1. Watch tires carefully for signs of under inflation.