

**U.S. Geological Survey  
OFF ROAD VEHICLES  
PREVENTIVE MAINTENANCE CHECKS & SERVICES**

A Pre-mission Preventive Maintenance Checks & Services Safety Inspection of your Off Road Vehicles is important to minimize the risk of injury, breakdowns or being stranded.

Operator \_\_\_\_\_ Date \_\_\_\_\_ Supervisor \_\_\_\_\_ Date \_\_\_\_\_

**Off Road Safety Inspection Procedure**

**T. TIRES AND WHEELS**

1. Check air pressure in both front & rear tires. See owner's manual for recommended tire pressure.
2. Check condition of tires, treads, sidewalls & valve stems for any damage or leaks.
3. Check wheels for any damage. Check lug nuts are secure and tighten if necessary.
4. Check front tires for proper alignment and wear.

**C. CONTROLS AND CABLES**

1. Check all controls and cables, make sure they are working properly.
2. Check throttle. Make sure throttle moves smoothly and snaps closed with handlebars in any position.
3. Check brakes. Check hand brake, foot brake, parking brake, actuator lever and cables.
4. Check foot shifter – firmly attached and positioned for safe operation.
5. Check handlebar position and steering linkage, if loose tighten.

**L. LIGHTS AND ELECTRICAL SYSTEM**

1. Check ignition switch.
2. Check emergency start system. Inspect pull starter, rope and handle condition.
3. Engine stop switch and tether switch, AC outlets (if equipped).
4. Check headlamp – Hi/Lo beams, tall lamp and brake lamp.
5. Check battery, fluid levels, check for terminal corrosion.
6. Check emergency lights (if equipped).

**O. OIL, FUEL AND COOLANT**

1. Check fluid level – Always start mission with a full tank.
2. Check oil levels in engine crankcase. Add if necessary. Do not over fill.
3. Check gear oil level in front & rear differentials.
4. Check engine coolant fuel level. Add if necessary. Check radiator for damage and leaks.
5. Check for any fuel, oil, and coolant leaks. Properly fill all fluid levels. See Owner's manual.

## **S. SUSPENSION, DRIVE SHAFT, CHAIN AND CHASSIS**

1. Check front & rear suspension for travel and compression. Clean of any debris.
2. Check front & rear suspension springs and shocks for loose or worn parts.
3. Check chain, inspect, lubricate and adjust. See Owner's Manual.
4. Check drive shaft front & rear. Inspect for damage, bent, loose.
5. Check chassis for any loose, worn or missing parts.
6. Check footrests. Clean of debris and secure.

## **M. MUFFLER/EXHAUST SYSTEM**

1. Check muffler and exhaust system – if loose, cracked, missing springs or exhaust leaks.
2. Check exhaust and heat shields – if loose tighten.

## **T. TOOL KIT, SPARE PARTS AND OWNER'S MANUAL**

1. Tool Kit – spark plug wrench, pliers, wrenches, screwdrivers, low-pressure tire gauge, etc.
2. Spare parts – spark plugs, tire repair kit, plastic wire ties, duct tape, etc.
3. Owner's Manual