



2027

Vehicle Service Manual

Outlander and Outlander MAX Series

Models with Twin Cylinders Engines

MAINTENANCE

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Periodic Maintenance

03 MAINTENANCE

Periodic Maintenance

Maintenance is very important for keeping your vehicle in safe operating condition.

The vehicle should be serviced as per the maintenance schedule.

Proper maintenance is the owner's responsibility. A warranty claim may be denied if, among other things, the owner or operator caused the problem through improper maintenance or use.

Perform periodic checks and follow the maintenance schedule. **The maintenance schedule does not exempt the pre-ride inspection.**

WARNING

Failure to properly maintain the vehicle according to the maintenance schedule and procedures can make it unsafe to operate.

EPA Regulation - Canadian and USA Vehicles

A repair shop or person of the owner's choosing may maintain, replace, or repair emission control devices and systems. These instructions do not require components or service by BRP or authorized Can-Am Off-road dealers.

Although an authorized Can-Am Off-road dealer has an in-depth technical knowledge and tools to service your vehicle, the emission-related warranty is not conditioned on the use of an authorized Can-Am Off-road dealer or any other establishment with which BRP has a commercial relationship.

Proper maintenance is the owner's responsibility. A warranty claim may be denied if, among other things, the owner or operator caused the problem through improper maintenance or use.

For emission-related warranty claims, BRP is limiting the diagnosis and repair of emission-related parts to the authorized Can-Am Off-road dealers. For more information, please refer to the *US EPA Emission-Related Warranty* contained in the *Warranty Booklet*.

You must follow the instructions for fuel requirements in the fueling section of this manual. Even if gasoline containing greater than ten volume percent ethanol is readily available, the US EPA issued a prohibition against the use of gasoline containing greater than 10 vol% ethanol that applies to this vehicle. The use of gasoline containing greater than 10 vol% ethanol with this engine may harm the emission control system.

Air Filter Maintenance Guideline

Air filter maintenance should be adjusted according to riding conditions.

Air filter maintenance must be increased in frequency in the following dusty conditions:

- Riding on dry sand
- Riding on dry dirt covered surfaces
- Riding on snow covered surfaces
- Riding on dry gravel roads or similar conditions.

Riding in a group under these conditions increases the frequency of the air filter maintenance.

Types of Usage

Regular Use

If your vehicle is used in the following purposes, refer to the **Maintenance Schedule** table.

- To ride in trails or do recreational activities,

- For occasional utility activity.

Severe Duty Use

For the following severe vehicle utilizations, the maintenance must be completed at 50% of the regular intervals.

- Immersion in mud or water.
- Sand dunes riding.
- Driving at excessive speeds for prolonged amount of time.
- Repeated carrying of loads at more than 75% the maximum capacity.
 - The increase workload applied to the drive system accelerates the differentials, gearbox/transmission, and engine oil life. This reduces internal component longevity if not replaced more frequently.

Deep Mud / Water Use

This type of usage requires more frequent maintenance and inspections to ensure debris has not infiltrated mechanical components.

If you ride in deep mud or water, be sure to perform the following *Post Operation Care for Deep Mud / Water Environment* list.

Post Operation Care for Deep Mud / Water Environment

- Rinse the vehicle and its components with fresh water
- Drain the CVT compartment and clean if any water or mud is found
- Inspect and clean engine air filters and engine air filter housing. Clean if any water or mud is found
- Clean radiator
- Clean debris around exhaust pipe and muffler area.
- Clean the spark arrester.
- Visually inspect for any water accumulation in the vent hoses (fuel tank, gearbox, front differential and rear final drive). If there is water, bring the vehicle to your nearest authorized Can-Am dealer for inspection and servicing of main components related to the vents
- Clean front and rear shock absorbers to prevent seal damage from dust or dirt
- Clean drive shaft bellows and propeller shaft yokes and bellows.

Extreme Cold Condition

A 4-stroke engine that is operated in - 25°C (- 13°F) and below environment will require an increase in service and maintenance schedule.

Any combustion engine operated in such a low load and rather cold operating temperature collects an increased amount of condensation at every startup/warm-up.

Since the engine is not reaching operating temperatures for extended periods of time, the oil is starting to be strongly diluted with water and gas residue (more water content).

An engine needs to reach operating temperature, in order to be able to evaporate condensate out of the oil.

If daily usage (work or leisure driving cycle) is similar to those mentioned below, BRP strongly recommends changing the oil at least once a month.

Parameters of an increase in service and maintenance schedule:

- Engine not reaching the proper operating temperature during normal daily usage,
- Multiple starts and stops without reaching operating temperature,
- Short idle periods,
- Low RPM driving cycle in short distances without reaching operating temperature.

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Maintenance Schedule

IMPORTANT

For severe vehicle utilization (Example: immersion in mud, water or sand, towing, cold weather operation, rock crawling activity, etc.), the maintenance must be completed at 50% of the regular intervals.

Make sure to perform proper maintenance at recommended intervals as indicated in the tables.

The maintenance chart intervals are based on 3 factors:

- Calendar time
- Vehicle hours
- Odometer reading.

Take in account whichever comes first to determine the maintenance threshold.

Your driving habits determines the factors you shall adhere too. For example:

- Someone who uses their vehicle every other weekend trail riding with friends would most likely follow the **odometer reading** to determine the maintenance interval.
- Someone who uses their vehicle seldomly over the year or only on a few occasions (hunting, camping) would most likely follow the **calendar time** to determine the maintenance interval.
- Someone who uses their vehicle daily / weekly for long periods of time such as agricultural / work would most likely follow the **vehicle hours** to determine the maintenance interval.

FIRST 3 000 km (1,900 mi)

Gearbox oil	– Replace oil.
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EVERY YEAR or 100 Hours or 3 000 km (1,900 mi)

Air delivery components*	– Inspect and clean; replace air filter as needed. – Inspect and clean air box, throttle body, ducts, clamps.
Battery	– Inspect connections and condition; clean as needed.
Brake components and function*	– Inspect fluid level, brake pads, brake discs, calipers, brake lines, master cylinder. – Clean and lubricate components.
CVT components and function	– Inspect drive and driven pulleys, drive belt, drive pulley rollers and hub bearing. – Clean components.
Drive components and function*	– Inspect for loose or worn out parts. – Inspect for oil leaks at differential(s), gearbox and final drive. – Inspect differential(s), gearbox and final drive oil level; adjust if necessary.
Electronic modules (Fault codes and applicable software updates)	– Connect the vehicle to the latest version of the BRP diagnostic software (B.U.D.S.). – Scan for fault codes and take the actions to resolve the problem. – Verify for available updates.

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EVERY YEAR or 100 Hours or 3 000 km (1,900 mi)

Electrical harness routing	– Inspect for pinched, misplaced, or damaged wiring.
Engine cooling components*	– Inspect coolant concentration, coolant level, hose condition, clamps, leaks. – Adjust coolant level as needed.
Engine oil and oil filter	– Replace oil and filter. – Inspect for oil leaks.
Exhaust components*	– Inspect gaskets, pipes, muffler, condition, leaks. – Inspect and clean muffler spark arrester. – Inspect and clean any debris surrounding the exhaust components
Frame	– Inspect for cracks or deformation.
Fuel components and function*	– Pressurize the fuel system by cycling the ignition ON/OFF. – Inspect fuel tank cap, fuel tank hoses, clamps, leaks.
Fuel tank breather (Non-EVAP model)	– Replace.
Steering components and function*	– Inspect for loose or worn out parts; replace as needed.
Suspension components*	– Inspect for loose or worn out parts; replace as needed. – Clean components.
*For an extensive list of maintenance actions to be performed, refer to your local dealership services.	

ADDITIONAL MAINTENANCE INTERVALS

Every 9 000 km (5,600 mi) / 300 hours (Regardless of calendar time)	Valve clearance	– Inspect; adjust if necessary.
	Spark plugs	– Replace.
Every 2 years / 200 hours / 6 000 km (3,700 mi)	Canister vent pre-filter (CARB and EVAP models)	– Replace.
	Gearbox, differential(s) and final drive oil	– Replace oil.
	Driven pulley rollers	– Inspect rollers for cracks or damages.
	Drive pulley hub bearing and thrust levers	– Lubricate drive pulley hub bearing and thrust rollers.
	Steering column half bushings	– Inspect, clean and lubricate column half bushings.
Every 2 years	Brake Fluid	– Replace fluid.
Every 5 years / 12 000 km (7,500 mi)	Coolant	– Replace coolant.