

# TABLE OF CONTENTS

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<b>MAINTENANCE CHART</b> .....	<b>02-02-1</b>
<b>NOISE EMISSION CONTROL SYSTEM REGULATION</b> .....	<b>02-02-1</b>
<b>MAINTENANCE CHART</b> .....	<b>02-02-2</b>

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<b>MAINTENANCE PROCEDURES</b> .....	<b>02-03-1</b>
SPECIAL PROCEDURES .....	02-03-1
AIR FILTER CLEANING/DRAINING .....	02-03-2
BOLTS, FASTENERS AND NUTS .....	02-03-3
ENGINE OIL AND FILTER.....	02-03-3
OIL STRAINER .....	02-03-5
SPARK ARRESTER .....	02-03-5
TIRES AND WHEELS .....	02-03-5
ENGINE AREA .....	02-03-6

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<b>STORAGE/PRESEASON PREPARATION</b> .....	<b>02-04-1</b>
<b>STORAGE</b> .....	<b>02-04-1</b>
FUEL STABILIZER .....	02-04-1
ENGINE LUBRICATION .....	02-04-1
VEHICLE CLEANING AND PROTECTION .....	02-04-2
COOLANT DENSITY .....	02-04-3
<b>PRESEASON PREPARATION</b> .....	<b>02-04-4</b>

# MAINTENANCE CHART

## NOISE EMISSION CONTROL SYSTEM REGULATION

### Tampering With Noise Control System Is Prohibited!

U.S. Federal law and Canadian provincial laws may prohibit the following acts or the causing there of:

1. The removal or rendering inoperative by any person other than for purposes of maintenance, repair or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or
2. The use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

### Among Those Acts Presumed to Constitute Tampering Are the Acts Listed Below:

1. Removal or alteration or the puncturing of the muffler or any engine component which conducts removal of engine exhaust gases.
2. Removal or alteration or the puncturing of any part of the intake system.
3. Replacing any moving parts of the vehicle or parts of the exhaust or intake system, with parts other than those specified by the manufacturer.
4. Lack of proper maintenance.

## Section 02 MAINTENANCE

### Subsection 02 (MAINTENANCE CHART)

# MAINTENANCE CHART

Some items may not apply to your particular model.

	INITIAL INSPECTION 10 HOURS OR 30 DAYS OR 300 KM (185 m.)	EVERY				REFER TO THE SUBSECTION
		25 HOURS OR 750 KM (470 m.)	50 HOURS OR 1500 KM (930 m.)	100 HOURS OR 3000 KM (1865 m.) OR ONCE A YEAR	200 HOURS OR 6000 KM (3730 m.) OR 2 YEARS	
I : Inspect, verify, clean, adjust, lubricate, replace if necessary C : Clean L : Lubricate R : Replace						
<b>ENGINE/TRANSMISSION</b>						
Engine/transmission oil and filter	R		R			Lubrication
Engine/transmission oil strainer cleaning					C	
Spark arrester				C		
Engine mount fasteners	I			I		Removal/ installation
Exhaust system	I			I		Cylinder and head
Valve adjustment	I			I		
Coolant	I			①	R	Cooling system
Radiator cap/cooling system pressure test	I				I	
Radiator condition/cleanliness (air ducts and radiator fins) ②	I		I			
Rewind starter rope condition				I		N.A.
Condition of seals	I			I		CVT
Drive belt				I		
Cleaning/condition of drive and driven pulleys				C		
One-way bearing inside CVT				L		
CVT air inlet duct condition/cleanliness and sealing	I		I			
<b>FUEL SYSTEM</b>						
Air filter		C ②		R ②		Maintenance procedures
Fuel lines and connections	I			I		Fuel circuit
Fuel tank strainer					R	
Carburetor	I			I		Carburetor and fuel pump
Carburetor valve piston				I		
<b>ELECTRICAL SYSTEM</b>						
Spark plug	I ③			R ③		Ignition system
Battery connections	I		I			Starting system
Wiring harness, cables and lines	I			I		Instruments/ accessories
Condition of ignition switch, start button and engine stop switch	I			I		
Condition of lighting system (HI/LO intensity, brake light, etc.)	I			I		
Headlamp beam aiming	I			I		
Winch connections	Refer to <i>ATV Winch Operator's Manual</i>					N.A.
<b>DRIVE TRAIN</b>						
Drive shaft boots and protectors	I	I				Front drive/ rear drive
Propeller shaft joints	I		L			
Drive shaft joints			I			
Wheel bearings				I		
Front and rear differentials oil level, seals and vents	I		I		R	

**Section 02 MAINTENANCE**  
Subsection 02 (MAINTENANCE CHART)

	INITIAL INSPECTION 10 HOURS OR 30 DAYS OR 300 KM (185 m.)	EVERY				REFER TO THE SUBSECTION
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I : Inspect, verify, clean, adjust, lubricate, replace if necessary C: Clean L: Lubricate R: Replace						
<b>STEERING SYSTEM</b>						
Throttle/housing/cable	I		I			Carburetor
Handlebar fastener				I		Steering/ control systems
Steering system mechanism ②	I			I		
Tie rod ends			I			
Front wheel alignment	I			I		
Choke	I			I		
Wheel nuts/studs	I		I			Maintenance procedures
Tyre wear and pressure	EVERY INSPECTION					
<b>SUSPENSION</b>						
Trailing arms				I		Rear suspension
Trailing arm bearings					I	
Shock absorbers			I			
A-arms			I			Front suspension
McPherson struts			I			
Ball joints		I				
<b>BRAKE</b>						
Brake fluid front/rear	I	I			R	Hydraulic brakes
Brake system (discs, hoses, etc.)				I		
Brake pads		I				
<b>BODY/FRAME</b>						
Engine area	C		C			Maintenance procedures
Frame fastener			I			
Hitch/trailer ball condition (if installed)	I		I			Body and frame
Seat fasteners			I			
Frame				I		
Vehicle cleaning and protection			C			
Storage cover latches			I			
Grab handles	EVERY INSPECTION					
Backrest	EVERY INSPECTION					

The initial maintenance is very important and must not be neglected.

- ① Every 100 hours, check coolant strength.
- ② More often under severe use such as dusty area, sand, snow, wet or muddy conditions.
- ③ Make sure that the spark plug gap is correct.

N.A.: Not Available

# MAINTENANCE PROCEDURES

## SPECIAL PROCEDURES

### Turn Over

If the oil pressure light stays ON after starting engine and the engine oil level is good, check the following:

- Oil filter for contamination.
  - *Replace oil filter and oil.*
- Oil pressure regulator valve stays open in the crankcase due to contamination (metallic particles).
  - *Clean and/or replace the valve.*
- Valve piston stuck in the oil pump housing.
  - *Repair valve piston.*
- Oil pressure switch for damages.
  - *Replace it if necessary.*
- Oil pump cleanliness and working.
  - *Clean and/or replace oil pump if necessary.*

### ATV Immersion

#### ATV Submerged for a Long Time (over one hour)

Disassemble the engine to clean the internal parts and check if there is no rust or corrosion on any internal parts. Refer to the specific sections.

Drain air box then clean and dry air filter.

Remove muffler and empty it. Let muffler dry then reinstall it on the vehicle.

Flush fuel tank and refill with new gas. Refer to FUEL CIRCUIT.

Clean carburetor. Refer to CARBURETOR.

Look for water in:

- brake system (replace brake fluid)
- differentials (drain oil and check internal parts for rust or corrosion then refill).

Lubricate throttle/choke cables. Check if the cables operate properly.

Spray all metal parts with BOMBARDIER LUBE (P/N 293 600 016).

Test drive to confirm all is working well (electrical and mechanical components).

#### ATV Submerged for a Short Time (fewer one hour)

Check if engine oil is contaminated. If so, perform the following instructions.

- Drain engine oil.
- Drain air box then clean and dry air filter.
- Look for water in fuel tank, in doubt, flush fuel tank and refill with new gas. Refer to FUEL CIRCUIT.
- Remove the CVT cover drain plug to drain the CVT housing. Remove the CVT cover then clean and check all parts of CVT. Refer to CVT section.



1. CVT cover drain plug

- Lubricate throttle/choke cables. Check if the cables operate properly.
- Remove spark plug and using the rewind starter, crank engine slowly several times.
- Add a small quantity of engine oil in cylinder (approximately 2 teaspoonfuls). Do not reinstall spark plug at this moment.
- Refill engine at the proper level with the recommended oil. Using the rewind starter, crank engine several times.
- Install new spark plug.
- Start the engine and allow it to run at idle speed until the engine reaches its operating temperature.
- Stop the engine.
- Change engine oil and filter.

## Section 02 MAINTENANCE

### Subsection 03 (MAINTENANCE PROCEDURES)

**NOTE:** Change oil as many times as necessary, until there is no white appearance in engine oil.

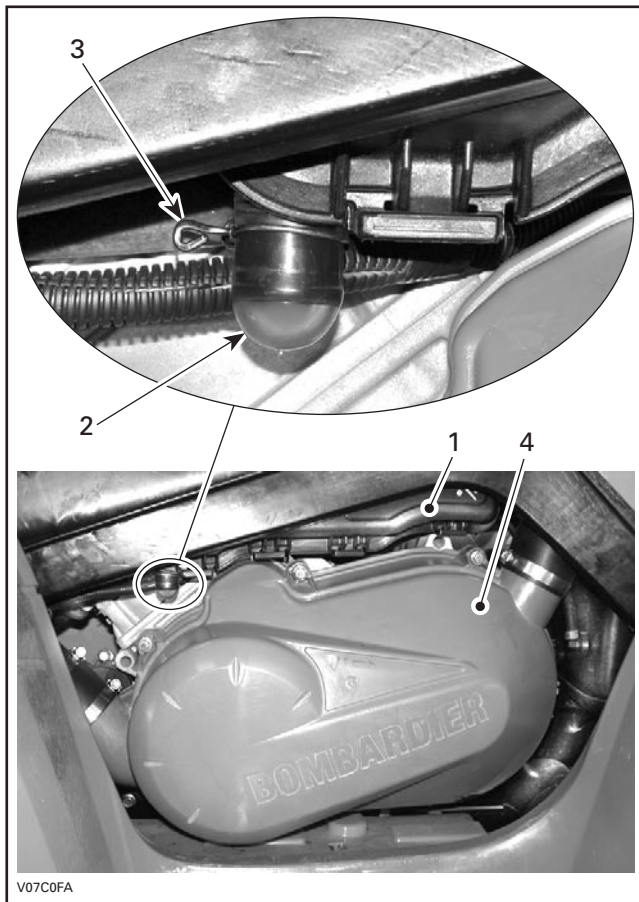
Spray all metal parts with BOMBARDIER LUBE (P/N 293 600 016).

Test drive to confirm all is working well (electrical and mechanical components).

## AIR FILTER CLEANING/DRAINING

### Air Filter Box Draining

Periodically inspect air filter box drain plug for liquid or deposits. Refer to the maintenance chart.



#### TYPICAL

1. Air filter box
2. Drain plug
3. Clamp
4. CVT cover

**NOTE:** If vehicle is used in dusty areas, inspect more frequently than specified in maintenance chart.

If liquid/deposits are found, squeeze the clamp and remove. Pull drain tube out and empty it.

**CAUTION:** Do not start engine when liquid or deposits are found in the drain tube. If you have oil in the air box, check engine oil level. Maybe oil level is too high.

When liquid/deposits are found, air filter must be inspected/dried/replaced depending on its condition.

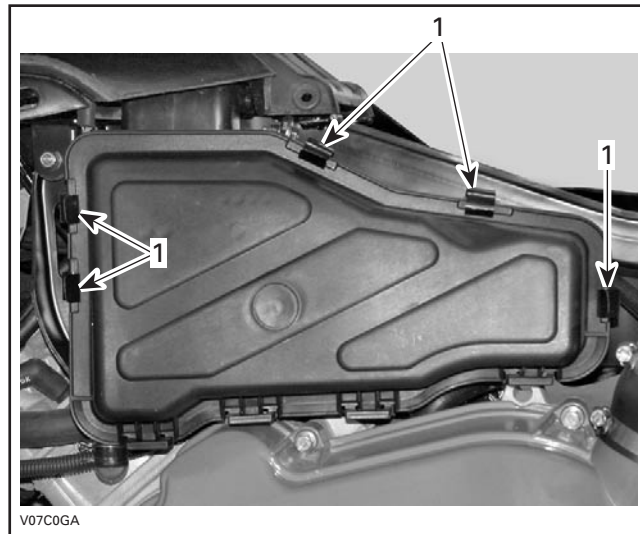
Remove air filter as explained below.

### Air Filter Removal

**CAUTION:** Never remove or modify any component in the air box. Always use genuine parts when replacing air filter and foam. Otherwise, engine performance degradation or damage can occur. The engine carburation is calibrated to operate specifically with these components.

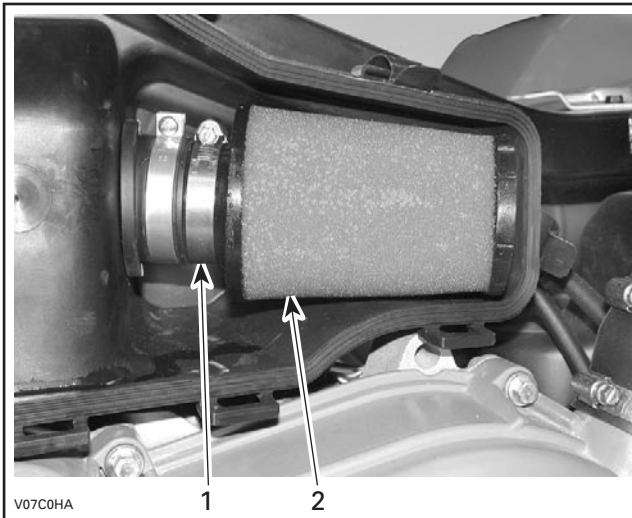
Remove seat and left side cover.

Release clamps and remove air filter box cover.



1. Release clamps

Loosen clamp and remove air filter.



1. Clamp
2. Air filter

Pour air filter cleaning solution (P/N 293 600 059 or an equivalent) into a bucket. Put the filter in to soak.

While filter soaks, clean inside of air box.

Rinse the filter with warm water and let it dry completely.

When the filter is dried, re-oil with air filter oil (P/N 293 600 058 or an equivalent).

If air filter foam is still dirty, replace with a new one.

Properly reinstall removed parts in the reverse order of their removal.

## BOLTS, FASTENERS AND NUTS

Check that all fasteners, bolts and nuts are tightened to the proper torque.

During assembly/installation, use the torque values and service products as in the exploded views.

Clean threads before applying a threadlocker. Refer to SELF-LOCKING FASTENERS and LOCTITE APPLICATION at the beginning of this manual for complete procedure.

### **WARNING**

Torque wrench tightening specifications must strictly be adhered to.

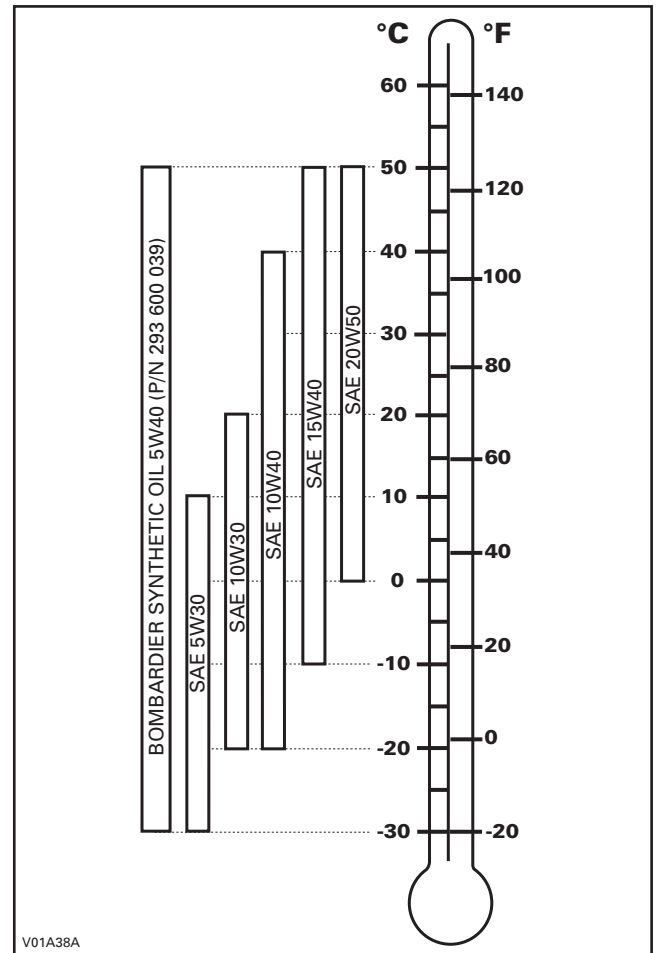
Locking devices (ex.: locking tabs, elastic stop nuts, self-locking fasteners, cotter pin, etc.) must be installed or replaced with new ones where specified. If the efficiency of a locking device is impaired, it must be renewed.

## ENGINE OIL AND FILTER

### Oil Viscosity

SAE 5W30 is recommended for all seasons.

Another viscosity should be used if the average temperature is outside the range of the recommended oil. See chart below.



### Oil Change and Oil Filter Replacement

#### **WARNING**

The engine oil can be very hot. Wait until engine oil is warm.

**NOTE:** Oil and filter are to be replaced at the same time. Oil change should be done with a warmed up engine.

Ensure vehicle is on a level surface.

Clean the drain plug area.

Remove dipstick and/or the filler cap.

Place a drain pan under the engine drain plug area.

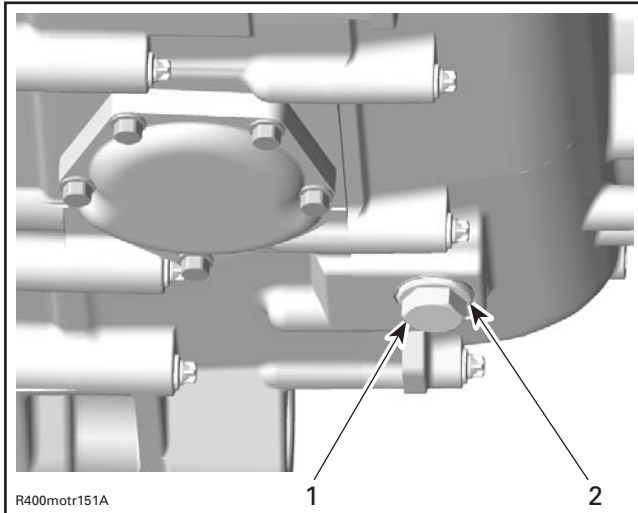
## Section 02 MAINTENANCE

### Subsection 03 (MAINTENANCE PROCEDURES)

Clean the drain plug area.

Unscrew drain plug.

**CAUTION:** Pay attention not to lose gasket ring on drain plug.

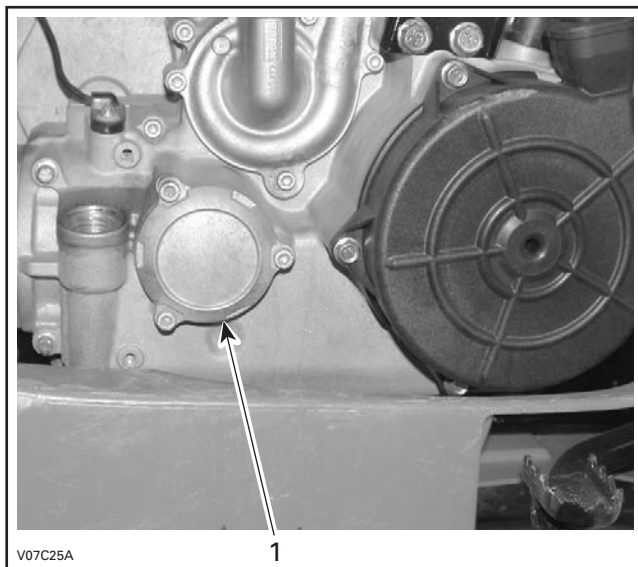


1. Magnetic drain plug
2. Gasket ring

Allow enough time for oil to flow out of oil filter (10 minutes approximately).

**NOTE:** Oil condition gives information about engine condition. See TROUBLESHOOTING section.

Unscrew oil filter cover.

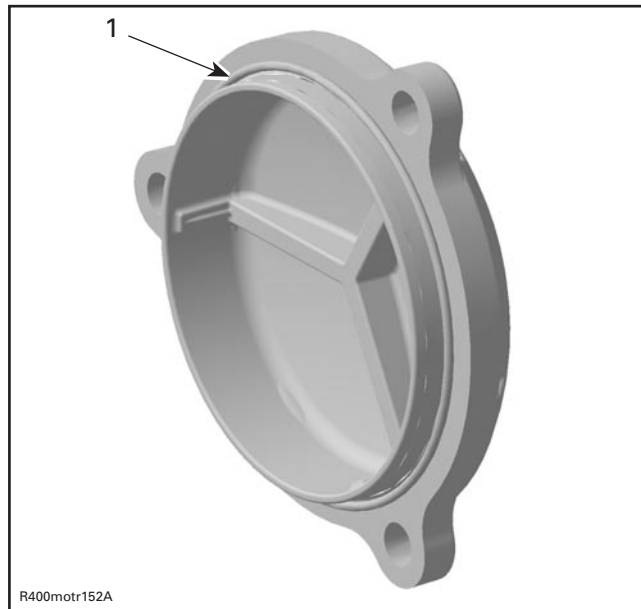


1. Filter cover

Remove oil filter and replace with a new one.

**CAUTION:** Only use Bombardier filter. The Bombardier filter is specifically designed for this engine. Using a non-recommended filter may cause serious engine/transmission damage.

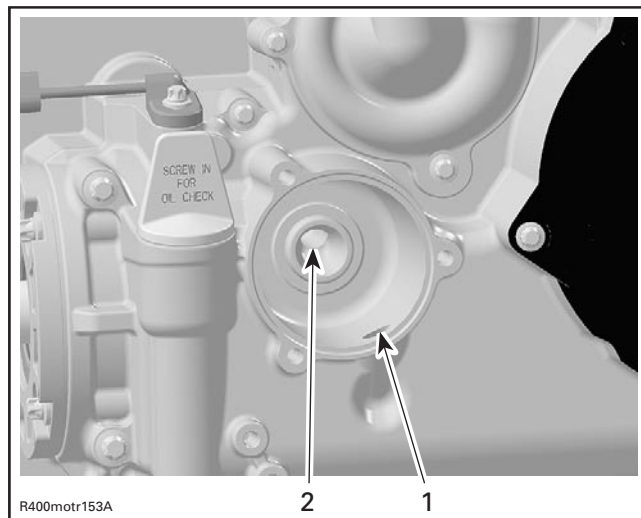
Check O-rings on filter cover and change them if necessary.



**TYPICAL**

1. O-ring

Check and clean oil filter inlet and outlet area for dirt and other contaminations.



1. Inlet bore from oil pump to oil filter
2. Outlet bore to engine oil providing system

Install filter cover and torque screws to 10 N•m (89 lbf•in).

Wipe out any oil spillage on engine.



Inspect gasket on drain plug and replace as necessary. Clean gasket area on engine and drain plug then reinstall plug.

Refill engine at the proper level with the recommended oil. Refer to TECHNICAL DATA for capacity. Do not overfill.

Start engine and let idle for a few minutes. Ensure oil filter area and drain plug areas are not leaking.

Stop engine. Wait a while to allow oil to flow down to crankcase then check oil level. Refill as necessary.

Dispose oil as per your local environmental regulations.

## OIL STRAINER

Refer to LUBRICATION section.

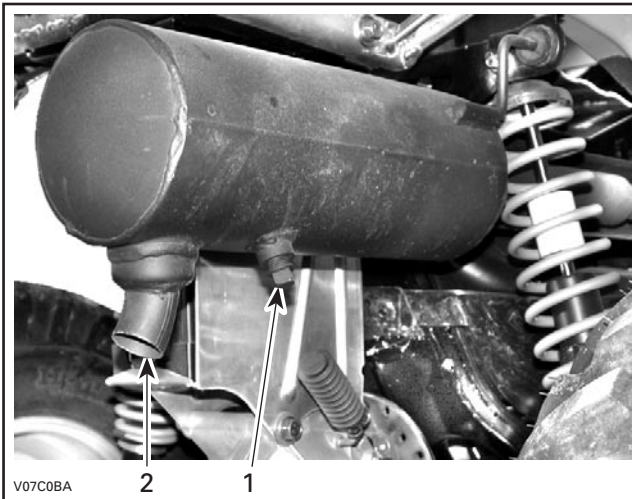
## SPARK ARRESTER

The muffler must be periodically purged of accumulated carbon.

Select a well-ventilated area and make sure the muffler is cool.

Place transmission on park position.

Remove the clean out plug.



1. Clean out plug
2. Muffler

Block the end of muffler with a shop rag and start engine.

Momentarily increase engine RPM several time to purge accumulated carbon from the muffler.

Stop engine and allow muffler to cool.

Remove shop rag and reinstall the clean out plug.

### **⚠ WARNING**

**Never run engine in an enclosed area.**  
**Never perform this operation immediately after the engine has been run because exhaust system is very hot.**  
**Make sure that there are no combustible materials in the area.**  
**Wear eye protector and gloves.**  
**Never stand behind the vehicle while purging exhaust system.**  
**Respect all applicable laws and regulations.**

Check the exhaust system for damage, crack or leak (exhaust pipe). Repair or change if necessary.

## TIRES AND WHEELS

### Tire Pressure

**CAUTION:** Underpressure may cause tire to deflate and rotate on wheel. Overpressure might burst the tire. Always follow recommended pressure. Since tires are low-pressure type, a manual pump should be used.

Check pressure when tires are cold before using the vehicle.

**NOTE:** Tire pressure changes with temperature and altitude. Recheck pressure if one of these conditions has changed.

<b>TIRE PRESSURE</b>		
	<b>FRONT</b>	<b>REAR</b>
<b>RECOMMENDED</b>	28 kPa (4 PSI)	31 kPa (4.5 PSI)
<b>MINIMUM</b>	24 kPa (3.5 PSI)	28 kPa (4 PSI)

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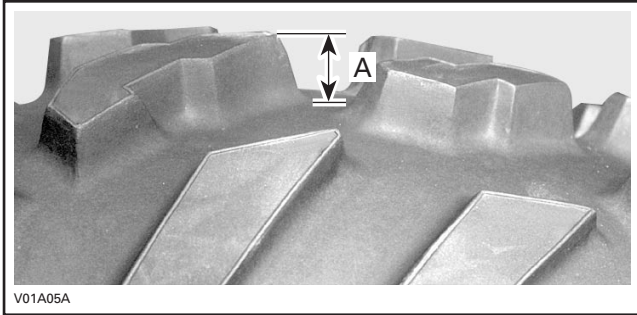
## Section 02 MAINTENANCE

### Subsection 03 (MAINTENANCE PROCEDURES)

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#### Tire/Wheel Condition

Check tire for damage and wear. Measure thread height. It should be 3 mm (7/64 in) minimum. Replace if damaged or worn.



A. 3 mm (7/64 in)

**NOTE:** Do not make a tire rotation. The front and rear tires have a different size. Besides, these tires are directional and their rotation must be kept in a specific direction for proper operation.

#### Wheel Removal

Untighten nuts then lift vehicle where needed. Place a support under vehicle. Remove nuts then withdraw wheel.

At installation, it is recommended to apply anti-seize lubricant on threads. Gently tighten nuts in a criss-cross sequence then apply a final torque of 70 N•m (52 lbf•ft).

**CAUTION:** Always use the recommended wheel nuts (P/N 250 100 039). Using a different nut could cause damages to the rim.

#### ENGINE AREA

Check in the engine area, for leak or other damage. Clean mud, leaves, etc. from engine area.

# STORAGE/PRESEASON PREPARATION

## STORAGE

If the ATV is to be stored for an extended period of time, more than 1 month, be sure to thoroughly check the vehicle for repairs and have them performed.

## FUEL STABILIZER

A fuel stabilizer (P/N 413 408 600) can be added in the fuel tank to prevent fuel deterioration and avoid draining the fuel system during storage. Follow the manufacturer's instructions for proper use.

If no stabilizer is used, drain fuel system including the fuel tank and carburetor.

**CAUTION:** Fuel stabilizer should be added prior to engine lubrication to protect carburetor against varnish deposits.

## ENGINE LUBRICATION

Engine internal parts must be lubricated to protect them from rust formation during the storage period.

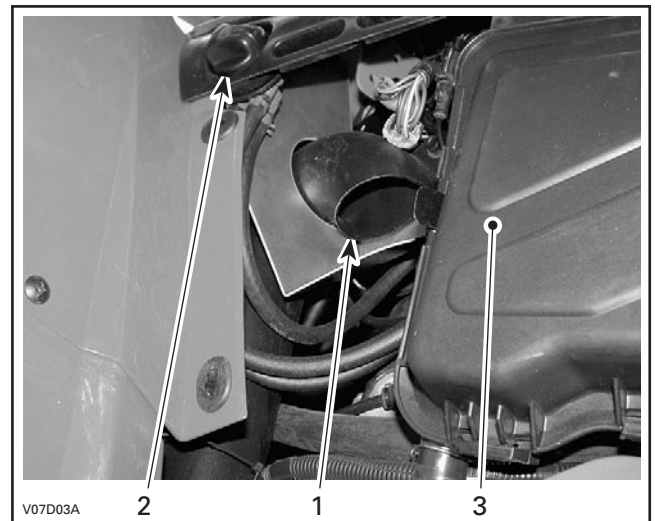
### WARNING

This procedure must only be performed in a well-ventilated area. Do not run engine during storage period.

Proceed as follows:

- Start the engine and allow it to run at idle speed until the engine reaches its operating temperature.
- Stop the engine.
- Change engine oil and filter. Refer to MAINTENANCE PROCEDURES.

- Remove air box cover and air filter to spray storage oil (P/N 413 711 600) into carburetor bore.
- Restart engine and run at idle speed.
- Inject storage oil until the engine stalls or until a sufficient quantity of oil has entered the engine (approximately a quarter of can).
- Remove spark plug(s) and spray storage oil into cylinder. Press start button, 1 or 2 seconds maximum, to lubricate cylinder.
- Stop the engine and remove the battery. Store it in dry and cool place out of the sun, refer to BATTERY.
- Reinstall the spark plug(s), air filter and air box cover.
- Turn the fuel valve to OFF and drain carburetor.
- Using clean rags, block the following locations: CVT inlet and outlet hoses, air intake inlet and muffler. The rags will prevent the intrusion of small animals, leaves or other debris.

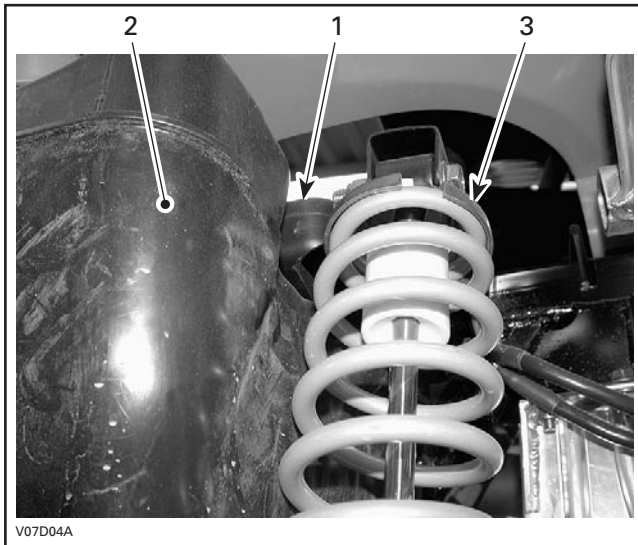


### CVT INLET HOSE

1. CVT inlet hose
2. Fuel valve
3. Air filter box cover

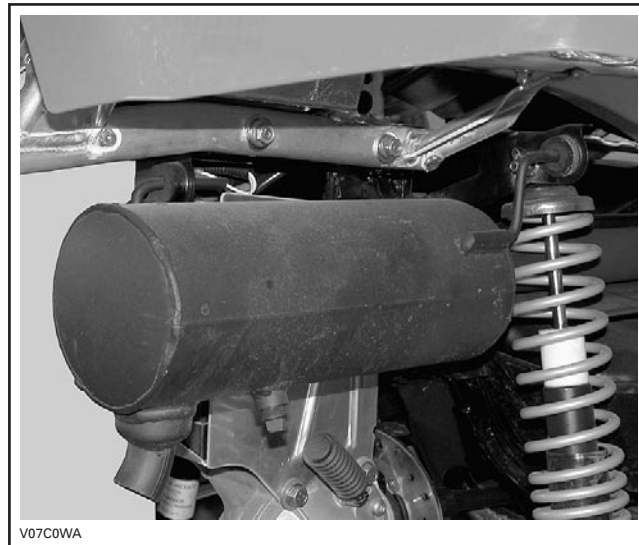
## Section 02 MAINTENANCE

### Subsection 04 (STORAGE/PRESEASON PREPARATION)



**CVT OUTLET HOSE**

1. CVT outlet hose
2. Fuel tank
3. LH rear shock absorber



**MUFFLER**

**CAUTION:** Remove all rags at preseason preparation.

## VEHICLE CLEANING AND PROTECTION

Wash and dry the vehicle.

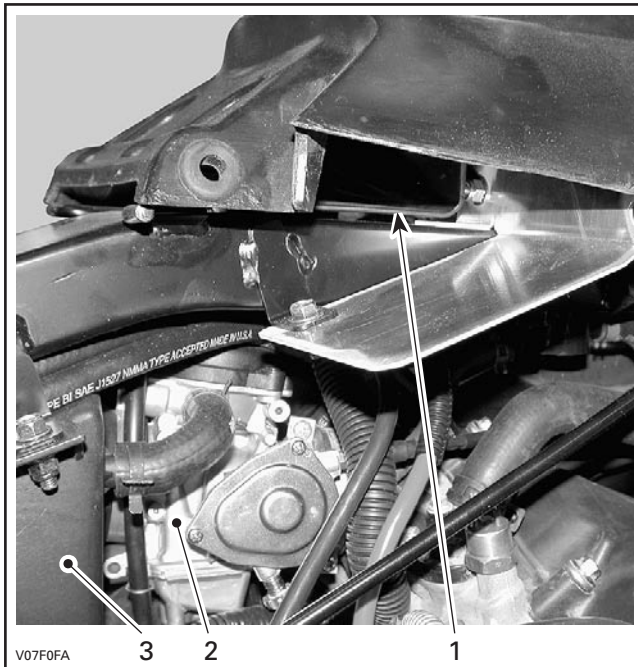
**CAUTION:** Never use a high pressure washer to clean the vehicle. **USE LOW PRESSURE ONLY** (like a garden hose). The high pressure can cause electrical or mechanical damages.

Remove any dirt or rust.

To clean the vinyl or plastic parts, use only flannel clothes with Bombardier Vinyl & Plastic Cleaner (P/N 413 711 200).

**CAUTION:** It is necessary to use flannel cloths on plastic parts to avoid damaging surfaces. Never clean plastic parts with strong detergent, degreasing agent, paint thinner, acetone, products containing chlorine, etc.

To clean the entire vehicle, including metallic parts use Bombardier Cleaner (P/N 293 110 001(400 g) or 293 110 002 (4 L)).



**AIR INTAKE INLET**

1. Air intake inlet
2. Carburetor
3. Air filter box

Inspect the vehicle and repair any damage. Touch up all metal spots where paint has been scratched off. Spray all metal parts with BOMBARDIER LUBE (P/N 293 600 016).

**NOTE:** Protect the vehicle with a cover to prevent dust accumulation during storage.

**CAUTION:** The vehicle has to be stored in a cool and dry place and covered with an opaque tarpaulin. This will prevent sun rays and grime from affecting plastic components and vehicle finish.

## COOLANT DENSITY

Test coolant density using an antifreeze hydrometer.

**NOTE:** Follow manufacturer's instructions for proper use.

A 50/50 mixture of antifreeze and distilled water will provide the optimum cooling, corrosion protection and antifreeze protection.

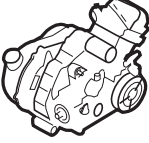







**CAUTION:** Do not use tap water, straight antifreeze or straight water in the system. Tap water contains minerals and impurities which build up in the system. Straight water will cause the system to freeze while straight antifreeze will cause system temperature problems.

Change coolant if necessary.

## Section 02 MAINTENANCE

### Subsection 04 (STORAGE/PRESEASON PREPARATION)

## PRESEASON PREPARATION

SYSTEM	PRESEASON OPERATIONS	TO BE PERFORMED BY		REFER TO SECTION
		CUSTOMER	DEALER	
	Test Run Vehicle. Check Clutch and Transmission Operation		✓	N.A.
	Engine Oil and Filter Oil Replacement ①	✓		Maintenance
	Spark Arrester	✓		
	Rags Removal (CVT Hoses, Intake and Muffler) ②	✓		
	Coolant Replacement and Pressurization of System		✓	Cooling System
	Valve Adjustment		✓	Cylinder and Head
	Condition of Seals		✓	N.A.
	Exhaust System Condition		✓	Removal/Installation
	CVT System Condition		✓	CVT
	Rewind Starter, Rope Condition		✓	N.A.
	Fuel Line and Connectors Condition		✓	Fuel Circuit
	Carburetor Adjustment		✓	Carburetor
	Air Filter Cleaning/Replacement	✓		Maintenance
	Spark Plug Replacement ③	✓		Ignition System
	Battery Condition/Charging and Installation		✓	Starting System
	Starter Connections and Routing		✓	
	Operation of Lighting System	✓		Instruments/ Accessories
	Drive Shaft Boots Inspection		✓	Front Differential/ Rear Axle
	Front/Rear Propeller Shafts Lubrication		✓	
	Front/Rear Differential Oil Level and Vent Condition		✓	
	Steering System Inspection and Adjustment		✓	Steering/ Control Systems
	Handle Bar Fastener Tightness		✓	
	Throttle and Choke Cable Inspection/Adjustment/Lubrication		✓	
	Wheel Tightness	✓		Maintenance
	Tire Pressure/Condition	✓		
	Suspension System Inspection		✓	Front/Rear Suspension
	Bearing Condition		✓	
	A-Arm Lubrication	✓		
	Trailing Arm Condition		✓	
	Brake Fluid Change		✓	Hydraulic Brakes
	Brake Condition		✓	
	Frame Condition		✓	Body
	Hitch/Trailer Ball Condition	✓	✓	
	Rear Cover Compartment Cover Latch Condition	✓	✓	
	Seat Latch Condition	✓		

① Replace oil and filter only if it has not been previously performed at the storage.

② Before starting the engine, remove rags in CVT inlet and outlet hoses, air intake inlet and muffler that were installed at the storage.

③ Before installing new spark plugs at preseason preparation, it is suggested to remove excess storage oil by starting the engine with the old spark plugs. Only perform this operation in a well-ventilated area.