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# **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:**

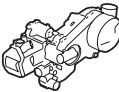




1. Removal or alteration or the puncturing of the muffler or any engine component which conducts removal of engine exhaust gases.
2. Removal or alteration or the puncturing of any part of the intake system.
3. Replacing any moving parts of the vehicle or parts of the exhaust or intake system, with parts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

## Section 02 MAINTENANCE

### Subsection 02 (MAINTENANCE CHART)




## LUBRICATION AND MAINTENANCE CHART

Some items may not apply to your particular model.

I: Inspect, verify, clean, adjust, lubricate, replace if necessary C: Clean L: Lubricate R: Replace		INITIAL 10 HOURS OR 200 KM (125 m.)	EVERY				REFER TO THE SUBSECTION
			25 HOURS OR 500 KM (310 m.)	50 HOURS OR 1000 KM (620 m.)	100 HOURS OR 2000 KM (1250 m.) OR ONCE A YEAR	200 HOURS OR 4000 KM (2485 m.) OR 2 YEARS	
	Engine oil and filter	R		R			Maintenance/ Lubrication
	Engine oil strainer					C	
	Engine oil pressure regulator		C				
	Spark arrester				C		
	Engine mount fasteners	I			I		Removal/ installation
	Exhaust system	I			I		N.A.
	Condition of seals	I			I		
	Gear box oil	I					Gear box
	Valve adjustment	I			I		Cylinder and head
	Coolant	I			①	R	Cooling system
	Radiator cap/cooling system pressure test	I				I	
	Radiator condition/cleanliness (radiator fins) ②	I		I			
	Drive belt				I ③		CVT
	Centrifugal clutch				I		
	Cleaning/condition of drive and driven pulleys				C		
CVT air inlet duct condition/cleanliness and sealing	I		I				
	Air filter		C ②		R ②		Maintenance/ lubrication
	Fuel lines and connections	I			I		Fuel circuit
	Fuel valve strainers					R	
	Carburetor	I			I		Carburetor
	Choke	I			I		
	Spark plug	I ④			R ④		Ignition system
	Battery electrolyte level, connection and vent	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		
	Headlight beam aiming	I			I		
	Drive chain adjustment	EVERY RIDE					Rear Axle
	Drive chain lubrication	EVERY RIDE					
	Drive chain slider condition	EVERY RIDE					
	Sprockets	I			I		
	Wheel bearings condition				I		
	Throttle/housing/cable	I		I			Steering/ control systems
	Handlebar fastener				I		
	Steering system ②	I			I		
	Tie rod ends			I			
	Front wheel alignment	I			I		
	Wheel nuts/studs	I		I			Maintenance/ lubrication
	Wear/pressure of tires	I	I				

## Section 02 MAINTENANCE

### Subsection 02 (MAINTENANCE CHART)

I: Inspect, verify, clean, adjust, lubricate, replace if necessary C: Clean L: Lubricate R: Replace		INITIAL 10 HOURS OR 200 KM (125 m.)	EVERY				REFER TO THE SUBSECTION
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	Swing arm				I		Front and rear suspension
	Shock absorber			I			
	A-arm			I			
	Brake fluid	I	I			R	Hydraulic brakes
	Brake cable	I		I			
	Brake system (discs, hoses, etc.)				I		
	Brake pads		I				
	Engine area	C		C			Body and frame
	Chassis fastener			I			
	Hitch/trailer ball condition (if installed)	I		I			
	Seat fastening	EVERY RIDE					
	Frame				I		
	Vehicle cleaning and protection			C			

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 Measure and verify the drive belt. If the drive belt width is equal or less than 19.5 mm (25/32 in) or if flat spots, cracks or other damages are visible, replace the drive belt.
- ④ Make sure that the spark plug gap is correct.

N.A.: Not Available

# MAINTENANCE/LUBRICATION

## SPECIAL PROCEDURES

### Flipped Over

When vehicle has flipped over or stays tilted on the side, wait around 5 minutes before starting engine. Check oil level and adjust if necessary. Do not start the engine if the oil level is lower than the minimum recommended. If oil pressure light stays ON after starting engine, stop engine and check oil level.

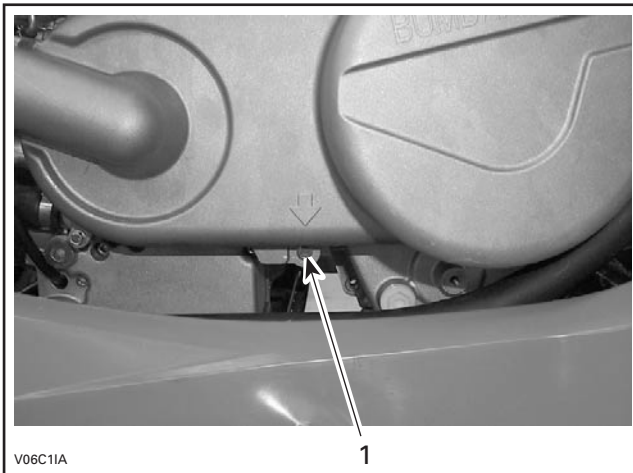
If oil level is good, refer to **Low or no Oil Pressure** in **TROUBLESHOOTING** section.

### ATV Immersion

If the ATV has been flooded, **DO NOT START ENGINE**.

Check if engine oil is contaminated. If so, change engine oil and filter.

If there is water in CVT housing, remove the CVT cover drain plug to drain CVT housing.



1. CVT cover drain plug

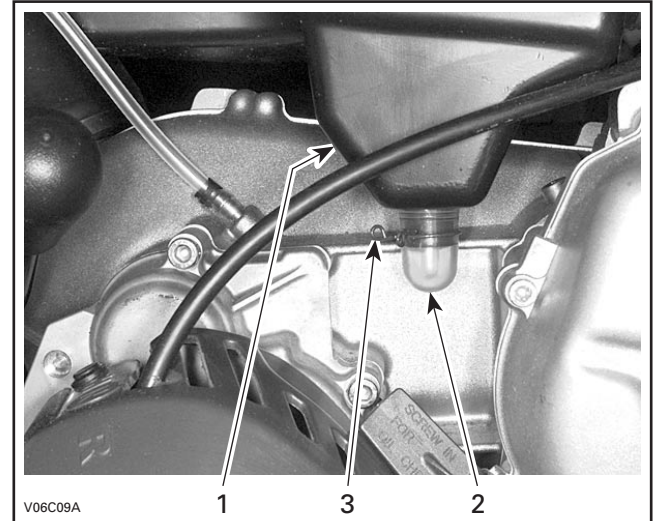
Remove CVT cover.

Clean and check all parts of CVT before starting engine. Refer to **CVT** section.

## AIR BOX

### Draining

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



#### TYPICAL

1. Air filter box
2. Drain plug
3. Clamp

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

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

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

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

Remove air filter as explained below.

## AIR FILTER

### Air Filter Removal

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

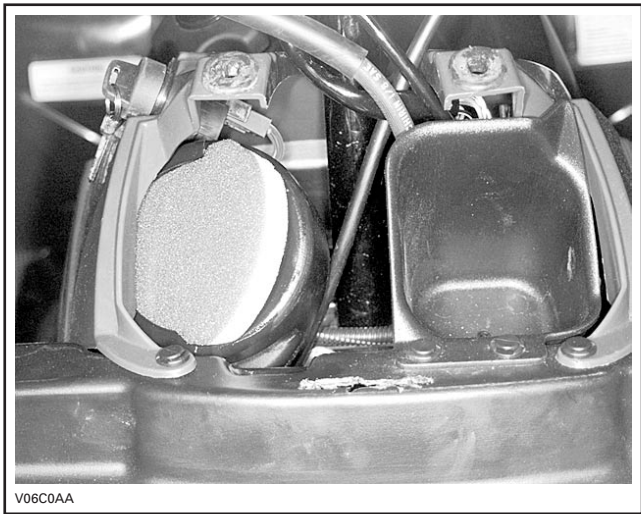
Section 02   MAINTENANCE

Subsection 03   (MAINTENANCE/LUBRICATION)

Remove cluster cover.



Remove air filter.



Cleaning

Pour cleaning solution into a bucket, dunk the filter in multiples times until clean. Rinse with warm water.

**NOTE:** Products like Simple Green®, dish soap or mild solvents can be used to clean the air filter. Simple Green® from Sunshine Makers Inc. is available at hardware stores or at automotive parts retailer.

While filter soaks, clean inside of air box.

Next, let the filter dry completely.

When the filter is dried, re-oil with air filter oil.

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

Installation

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

Reinstall the air filter with the grey part on top.

**NOTE:** Check if the air filter broach is properly located before installing air filter.

BOLTS, FASTENERS AND NUTS

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

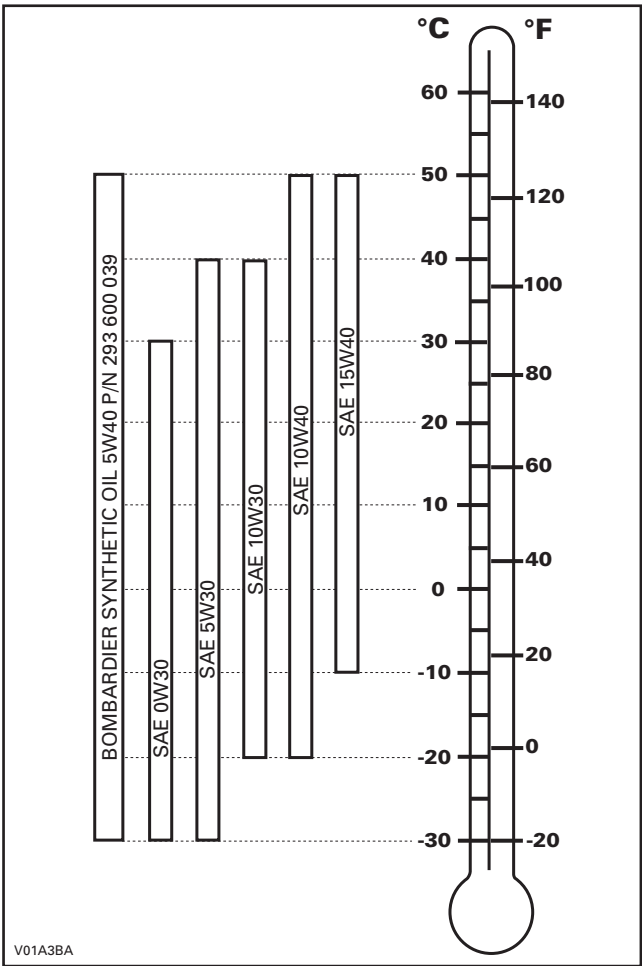
For installation, use the torque values and Loctite products from exploded views. Clean threads before using Loctite product when installing screws. Refer to SELF-LOCKING FASTENERS and LOCTITE APPLICATION for proper procedure.

ENGINE OIL AND FILTER

Oil Viscosity

SAE 5W30 is recommended for all seasons.

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



## Oil Level

Using the following procedure, check the engine oil level.

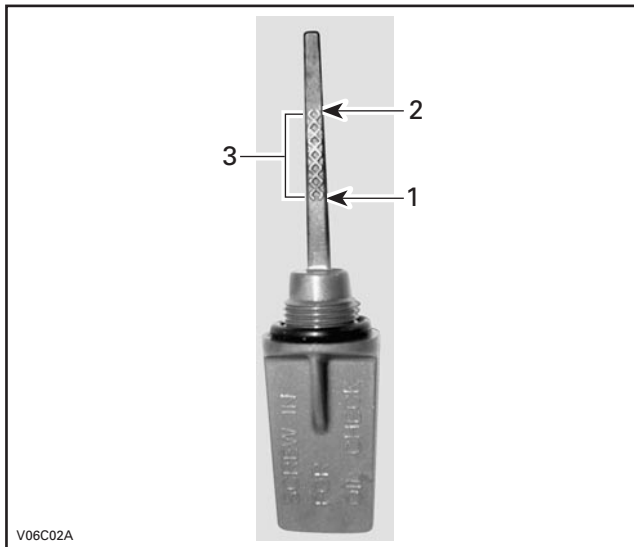
Place the vehicle on a level surface.

**NOTE:** The engine must be cold, not running.

Unscrew and remove the dipstick then wipe clean.

Reinstall the dipstick, **screw it in completely**.

Remove the dipstick and check the engine oil level. The level should be near or equal to the upper mark.



1. Full
2. Add
3. Operating range

## Oil and Oil Filter Change

### **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.

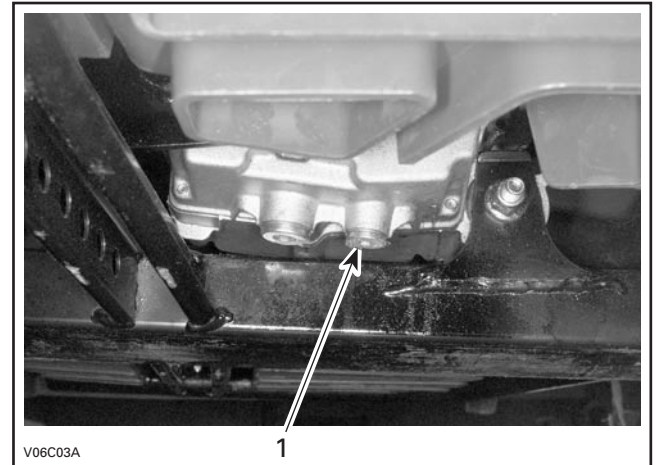
Remove dipstick.

Place a drain pan under the engine magnetic drain plug area.

Clean the magnetic drain plug area.

Unscrew magnetic drain plug.

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



1. Magnetic drain plug

Allow enough time for oil to flow out of oil filter.

Unscrew oil filter cover.



Remove oil filter and replace with a new filter.

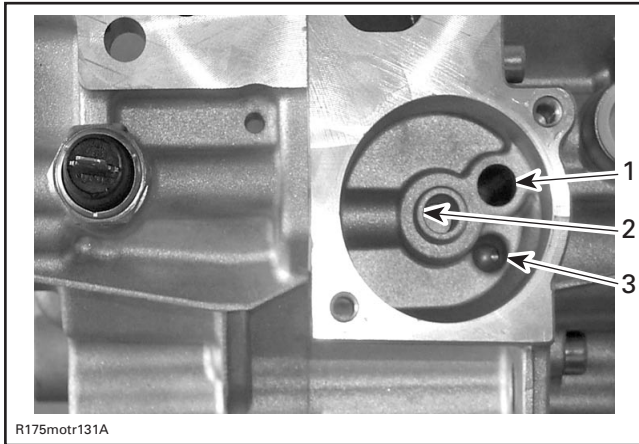
Check O-ring on filter cover and change it if necessary.

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



## Section 02 MAINTENANCE

### Subsection 03 (MAINTENANCE/LUBRICATION)



1. Inlet bore from oil pump to oil filter
2. Outlet bore to engine oil providing system
3. Oil line to pressure regulator valve

Install filter cover and torque screw 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.

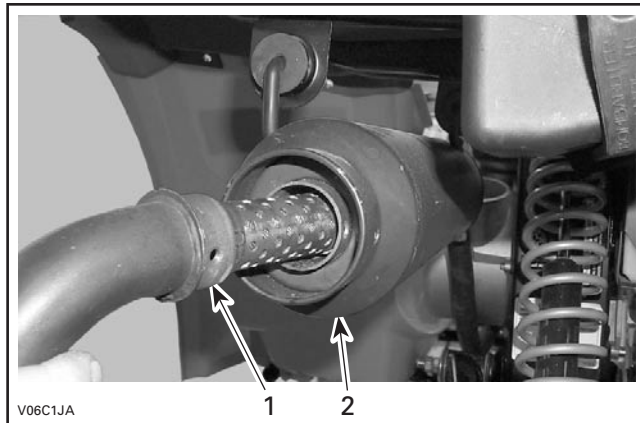
### WARNING

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.

Place transmission on NEUTRAL position and apply parking brake.

Remove the screw retaining the spark arrester to muffler.

Pull the spark arrester out of muffler.



1. Spark arrester
2. Muffler

Using a brush, remove the carbon deposits from the spark arrester.

**NOTE:** A soft brush is recommended to avoid damaging spark arrester.

Install the spark arrester in muffler.

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.

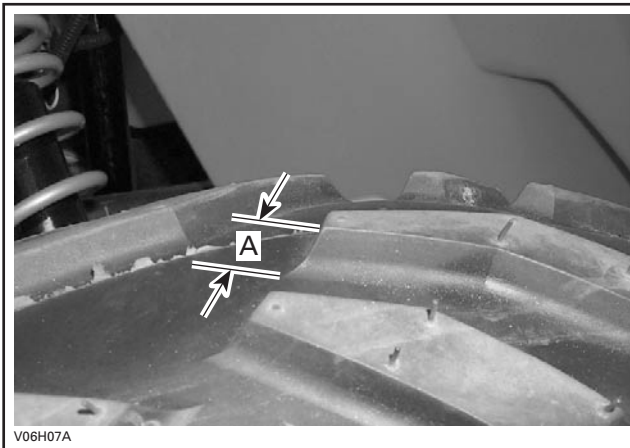
**NOTE:** Tire pressure changes with temperature and altitude. Recheck pressure if one of these conditions has changed.

For your convenience, a pressure gauge is supplied in tool box.

TIRE PRESSURE		
RALLY MODELS		
	FRONT	REAR
RECOMMENDED	24 kPa (3.5 PSI)	
MINIMUM	21kPa (3 PSI)	

### Tire/Wheel Condition

Check tire for damage and wear. Measure thread height. It should be 4 mm (5/32 in) minimum. Replace if damaged or worn.



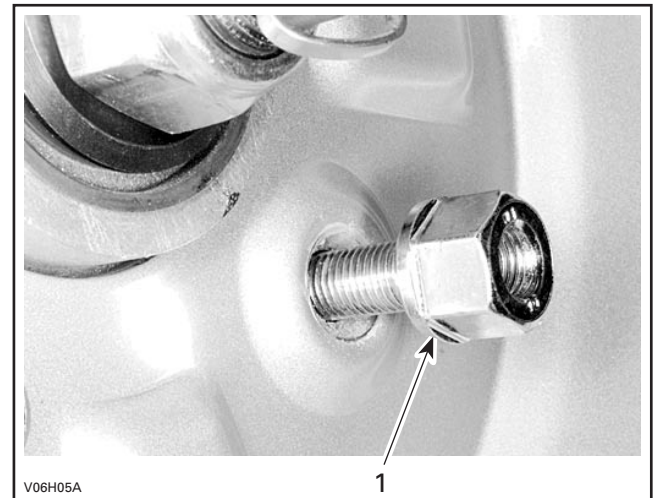
A. 4 mm (5/32 in)

**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).



1. Taper side of nut

## ENGINE AREA

Check in the engine area , for leak or other damage. Clean mud, leafs, 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 needed repairs and have them performed.

## FUEL STABILIZER

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

If above fuel stabilizer is not used, drain fuel system including fuel tank and carburetor.

**CAUTION:** Fuel stabilizer should be added prior to engine lubrication to ensure carburetor protection against varnish deposit.

## ENGINE LUBRICATION

### WARNING

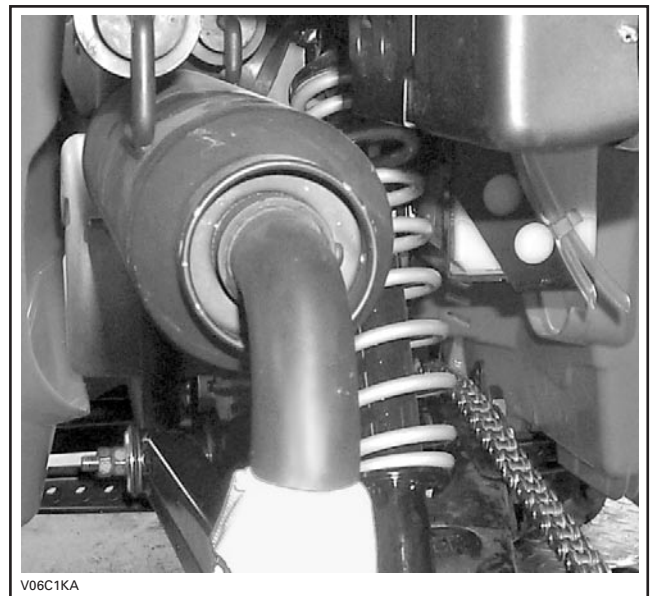
This procedure must only be performed in a well-ventilated area. Do not run engine during storage period.

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

Proceed as follows:

- Place the vehicle on blocks to raise all four tires off the ground.
- 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/LUBRICATION**.
- Remove the intake adaptor between carburetor and air box 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). Reinstall the grommet.
- Remove spark plug 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.
- Turn the fuel valve to OFF and drain carburetor.
- Install a clean rag in the muffler opening to block the exhaust system outlet.



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

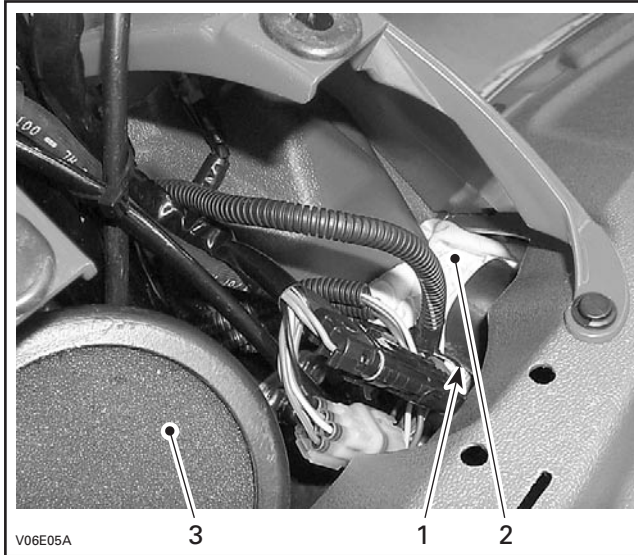
## RAGS INTO INLET AND OUTLET HOSES OF CVT

If the vehicle is not used during a long time, block inlet and outlet hoses of CVT with clean rags. The rags will prevent the intrusion of small animals, leaves or other debris.

## Section 02 MAINTENANCE

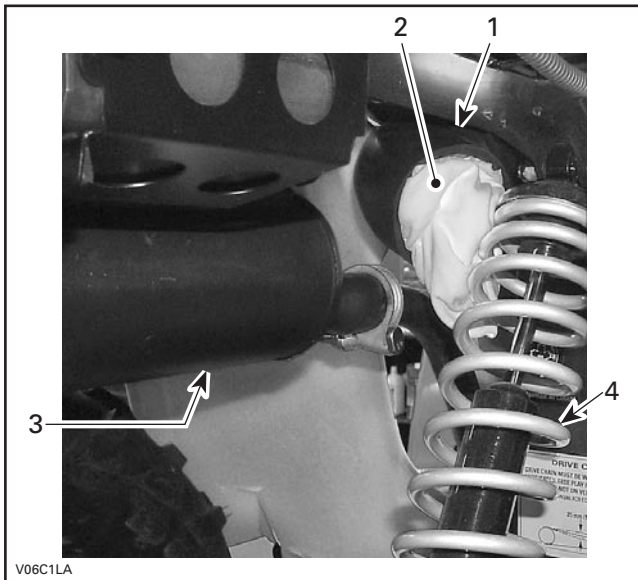
### Subsection 04 (STORAGE/PRESEASON PREPARATION)

The inlet hose is located under console in front of fuel tank. Open the console cover then remove the cup.



1. CVT inlet hose
2. Rag
3. Air filter

The outlet hose is located near the seat, under rear luggage rack.



1. CVT hose
2. Rag
3. Muffler
4. Rear shock absorber

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

## VEHICLE CLEANING AND PROTECTION

Wash and dry the vehicle.

Remove any dirt or rust.

To clean the plastic parts, use only flannel clothes or Kimtowels® wipers no. 58-380 from Kimberly-Clark.

**CAUTION:** It is necessary to use flannel cloths or Kimtowels wipers on plastic parts to avoid damaging further surfaces to clean.

To clean the entire vehicle, including metallic parts with a **thick** coat of grease, use Endust® imported by Bristol Myers, available at hardware stores or supermarkets.

**CAUTION:** Do not use Bombardier Cleaner on decals, plastic parts or vinyl.

To clean the entire vehicle, including metallic parts with a **thin** coat of grease, use Simple Green® from Sunshine Makers Inc., available at hardware stores or at automotive parts retailer.

For vinyl and plastic parts, use Vinyl & Plastic Cleaner (P/N 413 711 200 (6 x 1 l)).

**CAUTION:** Never clean plastic parts with strong detergent, degreasing agent, paint thinner, acetone, products containing chlorine, etc.

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 the density of the coolant 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.

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 or antifreeze will cause the system to freeze. 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 ②④. Check Clutch and Transmission Operation		✓	N.A.
	Engine Oil and Filter Oil Replacement ①	✓		Maintenance
	Spark Arrester		✓	
	Rags Removal (Intake and Exhaust) ②	✓		
	Coolant Replacement and Pressurization of System		✓	Cooling System
	Condition of Seals		✓	N.A.
	Exhaust System Condition		✓	Removal/Installation
	CVT System Condition		✓	CVT
	Rags in CVT Hoses ④	✓		Maintenance
	Fuel Line and Connectors Condition		✓	Fuel Circuit
	Carburetor Adjustment		✓	Carburetor
	Throttle Cable Inspection/Adjustment/Lubrication		✓	
	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 Chain Adjustment	✓		Rear Axle
	Drive Chain Lubrication	✓		
	Drive Chain Slider Condition	✓		
	Steering System Inspection and Adjustment		✓	Steering/Control Systems
	Handle Bar Fastener Tightness		✓	
	Wheel Tightness	✓		Maintenance
	Tire Pressure	✓		
	Tire Condition	✓		
	Suspension System Inspection		✓	Front/Rear Suspension
	Bearing Condition		✓	
	A-arm Condition		✓	
	Swing Arm Condition		✓	
	Brake Fluid Change		✓	Hydraulic Brakes
	Brake Condition		✓	
	Brake Cable Adjustment		✓	
	Frame and Skid Plate Condition		✓	Body
	Hitch/Trailer Ball Condition (if so equipped)	✓	✓	
	Seat Fasteners	✓		

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

② Before starting the engine, remove rags in intake and exhaust that were installed at the storage.

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

④ Before starting the engine, remove rags in CVT hoses that were installed at the storage.

N.A.: Not applicable