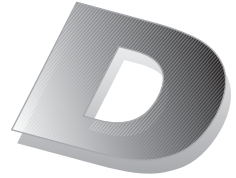




ATV
PREDELIVERY
Bulletin



June 4, 2010

Subject: **Can-Am™ DS 250™ Predelivery Inspection**

No.

2011-2

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2011	DS 250	3JBA / 3JBB / 3JBC	All

TABLE OF CONTENTS

	Page		Page
IMPORTANT NOTICE	2	Vehicle Cleaning	13
UNCRATING	3	Delivery to Customer	13
PARTS TO BE INSTALLED	4	TECHNICAL DATA	14
Battery	4		
Wheels	4		
Mirrors	5		
Vehicle Decals	5		
Accessories Installation	5		
Handlebar	5		
FLUIDS	7		
Fuel	7		
Engine Oil	7		
Gearbox Oil	8		
Engine Coolant	9		
Brake Fluid	10		
SET-UP	11		
Tire Pressure	11		
Brake Discs Cleanup	11		
Protective Materials	11		
ADJUSTMENTS	11		
General Guidelines	11		
Carburetor	11		
Drive Chain	11		
Transmission Lever	12		
Suspension	12		
Brake	12		
ASSEMBLY INSPECTION	13		
FINAL INSPECTION	13		
Vehicle Test Run	13		

IMPORTANT NOTICE

This bulletin must be used in conjunction with the check list enclosed in the bag with *OPERATOR'S GUIDE*. Make sure that *PREDELIVERY CHECK LIST* is completed and signed.

WARNING

To obtain warranty coverage, predelivery procedure must be performed by an authorized Bombardier Recreational Products Inc. (BRP) Can-Am™ ATV dealer/distributor. Apply all necessary torques as indicated.

NOTE: Information and components/system descriptions contained in this document are correct at time of publication. BRP however, maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured.

Due to late changes, there might be some differences between manufactured product and descriptions and/or specifications in this document. BRP reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring obligation.

Illustrations in this document show typical construction of different assemblies and may not reproduce full detail or exact shape of parts. However, they represent parts that have same or similar function.

Content of this bulletin is designed as a guideline only. All mechanics performing predelivery procedures should have attended current model-year service training.

Further information or inquiries should be directed to service representative and/or specific *SHOP MANUAL* sections.

Please complete *PREDELIVERY CHECK LIST* for each vehicle and retain a customer-signed copy.

Make sure customer receives *OPERATOR'S GUIDE*, *PREDELIVERY CHECK LIST* signed copy and *SAFETY DVD*.

WARNING

Torque wrench tightening specifications must strictly be adhered to. Locking devices (e.g. lock tabs, elastic nuts) must be installed or replaced by new ones, where specified. Fasteners with locking agent must be replaced by new ones. If the efficiency of a locking device is impaired, it must be renewed.

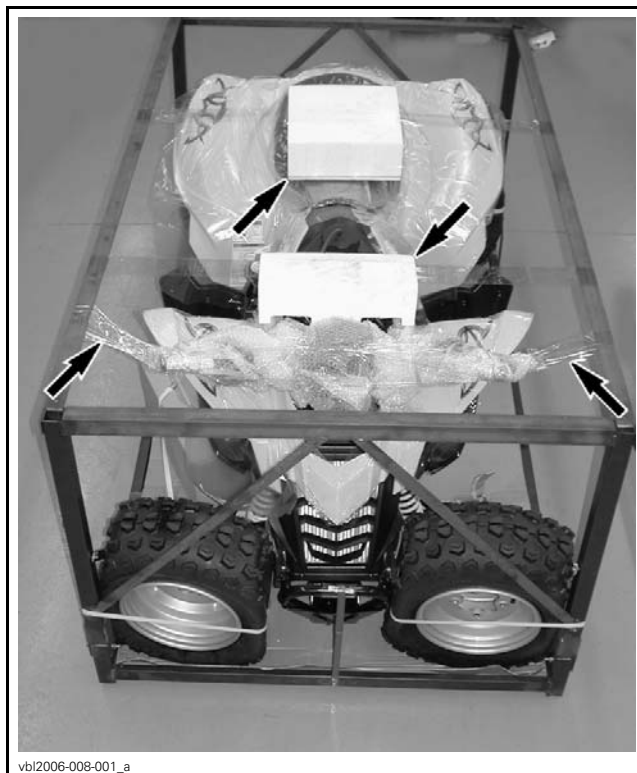
UNCRATING

NOTICE Allowing the crate to drop may cause serious damage to the vehicle.

NOTICE While manipulating to cut, take care not to damage trim components with blade.

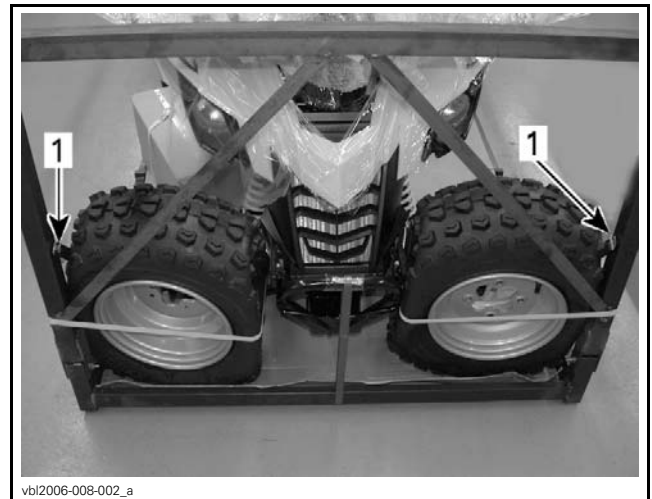
NOTICE Proceed with care in order not to damage components while uncrating vehicle.

1. Carefully lay crate on its bottom.
2. Lift and discard 4 top steel corners.
3. Remove plastic and cardboard wrapping around steel frame.
4. Remove foam protectors on top of vehicle.
5. Cut handlebar wrapping around top longitudinal angle bars.



CUT WRAPPING

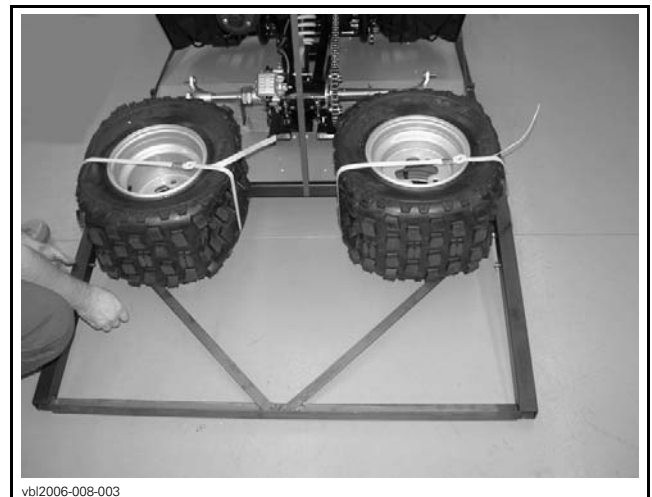
6. Lift and discard both longitudinal angle bars.
7. Remove retaining pins that hold flat bars onto corner square tubes and lay down flat bars.



1. Retaining pins

8. Slowly lower both end steel frames down.

NOTE: Tires and wheels assembly follow the steel frame downward movement and become easily accessible.



LOWER END STEEL FRAME DOWN

9. Remove cardboard box from crate bottom.

Canada and USA models

Inside that box are the following parts :

- 16 wheel nuts
- 1 steering pod bracket
- 4 M8 x 40 socket head bolts
- 1 battery with its hardware
- 1 right side mirror and 1 left side mirror.

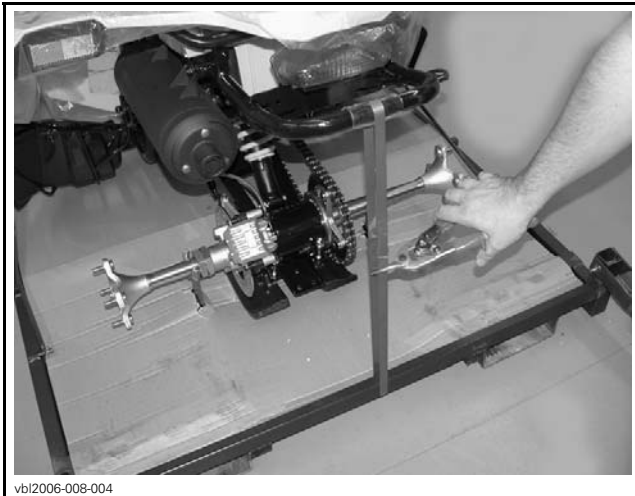
Other Countries models

Inside that box are the following parts :

- 16 wheel nuts
- 1 front fascia
- 1 battery with its hardware
- 1 right side mirror and 1 left side mirror.

10. Cut front and rear retaining straps.

11. Remove protective wrapping all over vehicle.



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CUT RETAINING STRAPS

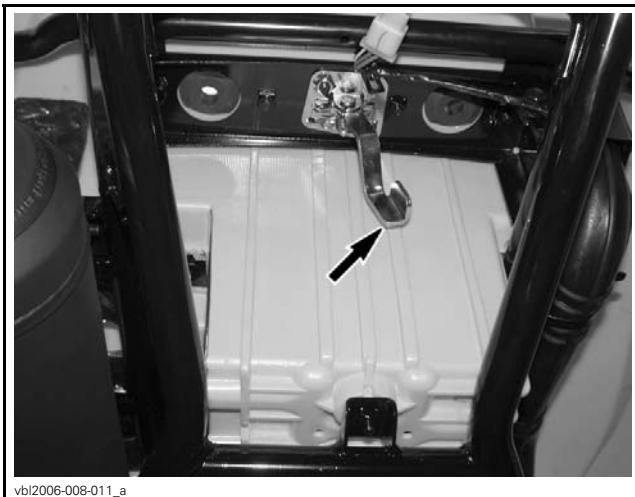
PARTS TO BE INSTALLED

Battery

1. Refer to the latest edition of *CAN-AM ATV BATTERY SERVICE BULLETIN* for the proper activating, charging and maintenance procedures.

NOTICE Always charge battery before its installation on the vehicle.

2. Remove seat by pulling underneath latch at rear.



vbl2006-008-011_a

SEAT LATCH

3. Install charged battery on vehicle, positive post on right side.

CAUTION Never charge or boost battery while installed on vehicle.

4. Secure battery in place using supplied bracket with its 2 retaining bolts and washers.

NOTICE Make sure not to squeeze battery cables between vehicle components.

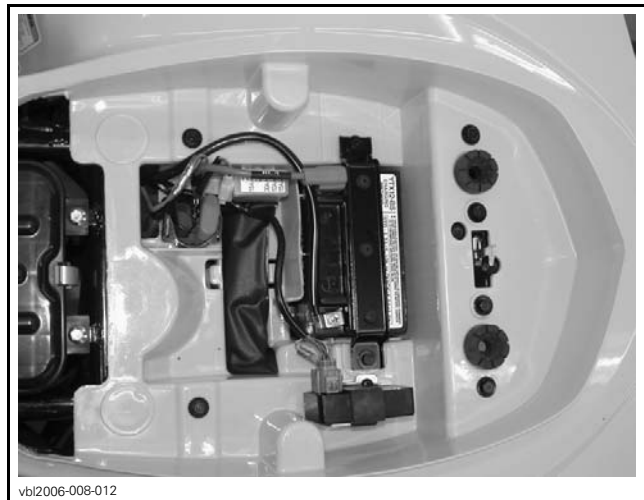
5. Apply DIELECTRIC GREASE (P/N 293 550 004) on battery posts.

6. Connect RED positive cable to positive battery post using supplied nut and bolt.

7. Connect BLACK negative cable to negative battery post using supplied nut and bolt.

NOTICE Always connect RED positive cable first and then BLACK negative cable.

8. Cover positive post with rubber boot.



vbl2006-008-012

BATTERY INSTALLATION

9. Reinstall seat.

Wheels

1. Cut straps retaining wheels to end steel frames.

2. Inflate tires to specified air pressure.

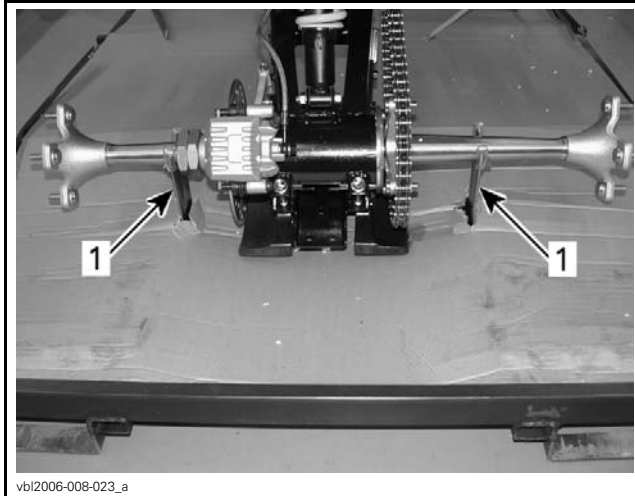
WARNING

Low pressure may cause tire to deflate and rotate on wheel. Overpressure may burst the tire. Always follow recommended pressure. Since these tires are low pressure type, a manual pump should be used.

NOTICE Always check pressure when tires are cold.

TIRE PRESSURE	FRONT	REAR
Recommended	34 kPa (5 PSI)	34 kPa (5 PSI)
Minimum	26 kPa (4 PSI)	26 kPa (4 PSI)

- Keep rear axle on 2 rear U-brackets.



vbi2006-008-023_a

1. Rear U-brackets

- Lift front of vehicle.
- Install front wheels on vehicle with air valves toward the outside.
- Ensure that the rotation direction shown by the arrow is respected.

NOTICE Respect the rotation direction shown by the arrow on the outside wall of the tire.



vbi2006-008-005_a

- Torque wheel lug nuts to 50 N•m (37 lbf•ft).
- Lift vehicle from rear U-brackets.
- Install rear wheels on vehicle with air valves toward the outside.
- Ensure that the rotation direction shown by the arrow is respected.
- Torque wheel lug nuts to 50 N•m (37 lbf•ft).
- Move vehicle out of the crate.

Mirrors

On applicable models, install both right side and left side mirrors.

Vehicle Decals

- Install decals on vehicle according to customer country language and local legislation.
- Ensure that the new decals are installed at the same location and over the factory installed decals.

Accessories Installation

- Install accessories (if any) as per their installation instructions (included in each kit).
- Install any other equipment required by local legislation (if any).

Handlebar

NOTE: Some air bubbles may be present in the brake lines due to the handlebar's disposition within the crate. Installing the handlebar as early as possible will allow the air bubbles to move from the brake lines to the master cylinder. The brake system does not need to be bled. The brake system pressurization will be completed further in this section.

Canada and USA models

- Remove and discard the 4 handlebar retaining bolts.

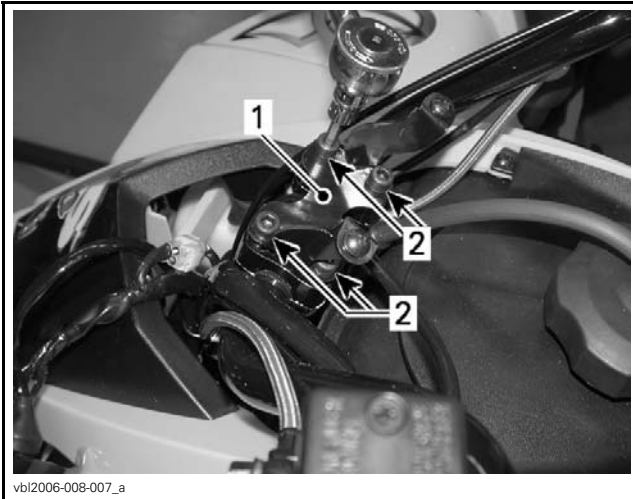


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HANDLEBAR RETAINING BOLTS

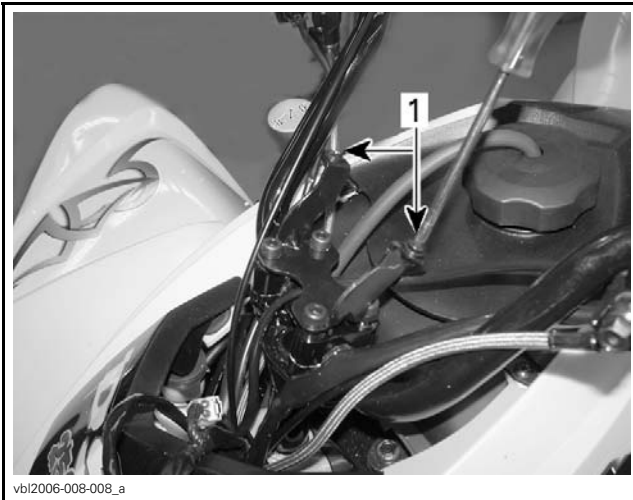
- Park vehicle straight on a level surface.
- Position handlebar so both brake fluid reservoirs are level.
- Align steering pod bracket.

5. Secure pod bracket with handlebar in place using 4 new socket head bolts.
6. Torque bolts in a crisscross sequence to 20 N•m (15 lbf•ft).



1. Steering pod bracket
2. Socket head bolts

7. Remove 2 bolts from steering pod bracket.



1. Steering pod bracket bolts

8. Align pod on its bracket.
9. Secure pod in place using same bolts (previously removed).



SECURE POD ON ITS BRACKET

Other Countries models

10. Park vehicle straight on a level surface.
11. Loosen 4 handlebar retaining bolts.
12. Position handlebar so both brake fluid reservoirs are level.
13. Torque handlebar bolts in a crisscross sequence to 20 N•m (15 lbf•ft).
14. Remove the 4 bolts from instrument cluster bracket.
15. Align cluster on its bracket.
16. Secure cluster in place using same bolts (previously removed).
17. Route fuel reservoir vent tube into hole in cluster.



SECURE CLUSTER

All models

Safety label addressed to purchaser is rolled around right side handlebar grip; it must remain there until vehicle is delivered to retail owner.



FLUIDS

All fluids (except fuel) have already been filled at factory, it is only necessary to validate them. However, if refill is needed, refer to the appropriate *ATV SHOP MANUAL* for the proper procedure.

Fuel

Add fuel in the fuel reservoir.

Recommended Fuel

Use regular unleaded gasoline or gasohol containing less than 10% of ethanol or methanol, available from most service stations.

Refer to the following table for recommended minimum octane number:

COUNTRY	OCTANE NUMBER
North America	87 (RON + MON) / 2
Elsewhere	92 (RON)

⚠ WARNING

Always stop engine before refueling. Open cap slowly. If a differential pressure condition is noticed (whistling sound heard when loosening fuel tank cap) have vehicle inspected and/or repaired before further operation. Fuel is flammable and explosive under certain conditions. Never use an open flame to check fuel level. Never smoke or allow flame or spark in vicinity. Always work in a well-ventilated area. Never top up the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and may overflow. Always wipe off any fuel or oil spillage from the vehicle.

NOTICE Never place anything over fuel tank cap as this could block the vent hole, leading to engine misfire.

NOTICE Never experiment with other fuels. The use of a non recommended fuel can result in vehicle performance deterioration and damage to critical components in the fuel system and the engine.

NOTICE Never mix oil with fuel. This vehicle has a 4-stroke engine. Oil is added in the engine only.

Engine Oil

NOTICE Do not overfill. Operating the engine with an improper oil level may severely damage the engine. Wipe off any oil spillage.

Recommended Engine Oil

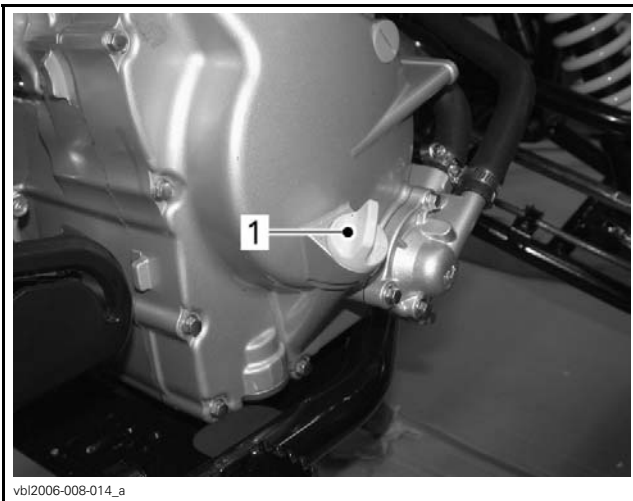
For the summer season, use XPS SYNTHETIC BLEND OIL (SUMMER GRADE) (P/N 293 600 121).

For the winter season, use XPS SYNTHETIC OIL (WINTER GRADE) (P/N 293 600 112).

NOTE: The XPS oil is specially formulated and tested for the severe requirements of this engine.

Engine Oil Level Verification

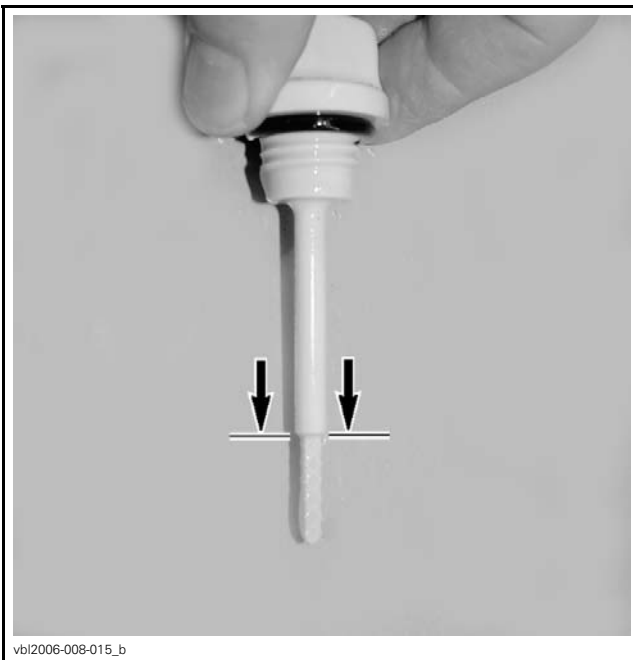
1. Ensure that engine is cold and not running.
2. Park vehicle straight on a level surface.
3. Unscrew and remove oil dipstick.



vb12006-008-014_a

1. Engine oil dipstick

4. Wipe dipstick.
5. Reinstall dipstick (do not screw it in).
6. Remove dipstick.
7. Check oil level as per the following illustration.



vb12006-008-015_b

UPPER MARK (FULL)

8. Ensure that oil level is close to or on upper mark (Full).
9. If necessary, add recommended engine oil .
10. Reinstall and screw in dipstick completely.

Gearbox Oil

Recommended Gearbox Oil

Use XPS CHAINCASE OIL (P/N 415 129 500).

NOTICE Do not use non recommended types of oil when servicing. Do not mix with other types of oil.

Gearbox Oil Level Verification

NOTICE Make sure to use a clean (completely free of greasy matter) wire to avoid oil contamination.

NOTE: The following procedure is not an accurate one, it must be only used to verify the presence of oil in the gearbox. If necessary, refer to the appropriate *ATV SHOP MANUAL* for complete procedure.

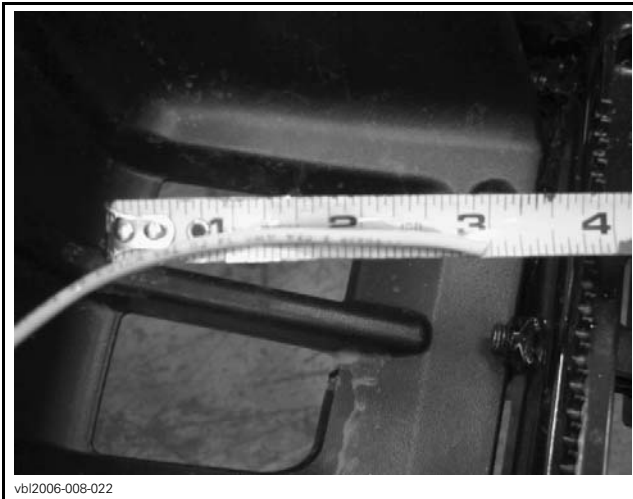
1. Park vehicle straight on a level surface.
2. Select NEUTRAL position.
3. Apply parking brakes.
4. Remove the gearbox filler plug.
5. Get a piece of 16-18 gauge clean wire, 305 mm to 380 mm (12 in to 15 in) long.
6. Insert approximately 203 mm (8 in) in a downward angle into the filler hole.



vb12006-008-021_a

INSERT WIRE INTO FILLER HOLE

7. Pull wire out the filler hole.
8. Check gearbox oil level as per the following illustration.



vbl2006-008-022

GEARBOX OIL LEVEL VERIFICATION

9. Ensure there is a MINIMUM of 25 mm (1 in) of oil on the wire.
10. Reinstall and screw in filler plug completely.

Engine Coolant

⚠ WARNING

Check coolant level with engine cold. Never add coolant in cooling system when engine is hot.

Recommended Engine Coolant

Use BRP PREMIXED COOLANT (P/N 219 700 362) or a mix of ethylene-glycol/water (50% coolant, 50% distilled water).

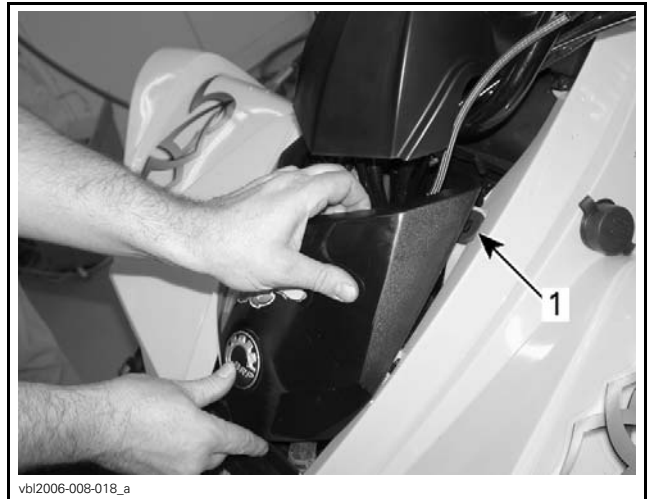
Coolant Level Verification

NOTICE Do not overfill coolant reservoir.

NOTE: When checking level at temperatures below 20°C (68°F), level may be slightly below MIN mark.

Canada and USA models

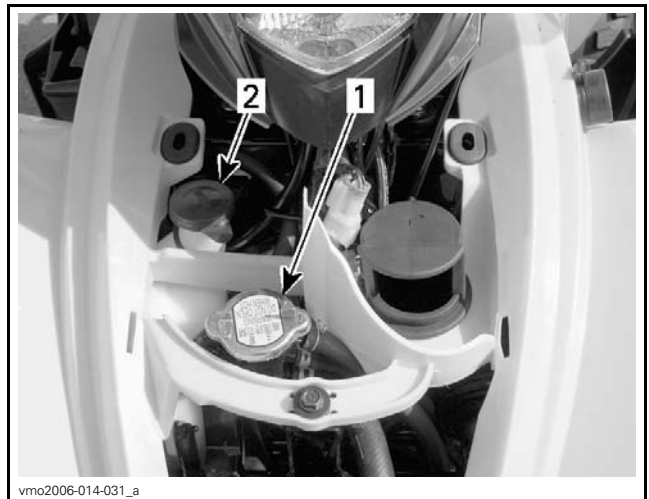
1. Park vehicle straight on a level surface.
2. Lift out front fascia from both sides rubber grommets.
3. Carefully pull front fascia toward front.
4. Remove front fascia from vehicle.



vbl2006-008-018_a

1. Rubber grommets

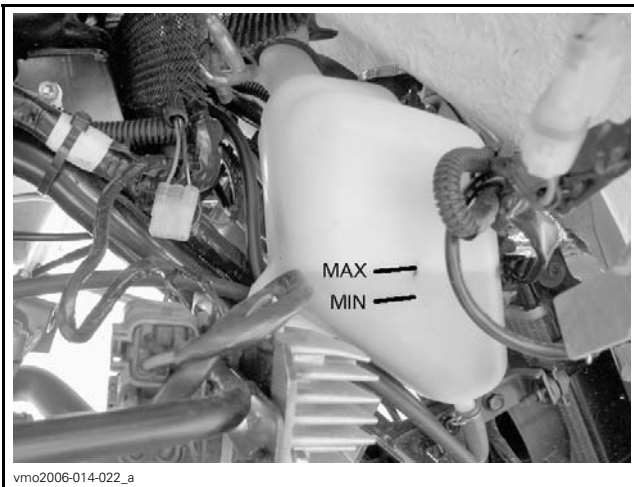
5. Check that radiator is filled with coolant by removing the radiator cap.
6. If necessary, add recommended coolant.
7. Reinstall radiator cap.



vmo2006-014-031_a

1. Radiator cap
2. Coolant reservoir cap

8. Locate coolant reservoir underneath RH front fender.
9. Check coolant reservoir level.
10. Ensure that fluid is between MIN. and MAX. marks.



vmo2006-014-022_a
COOLANT RESERVOIR

11. If necessary, add recommended coolant.
12. Reinstall front fascia on vehicle.

Other Countries models

Note that other countries models do not have the front fascia installed on the vehicle at delivery. The front fascia is located on the cardboard box. Follow the above procedure to verify radiator level and coolant reservoir level then install front fascia on vehicle.

Brake Fluid

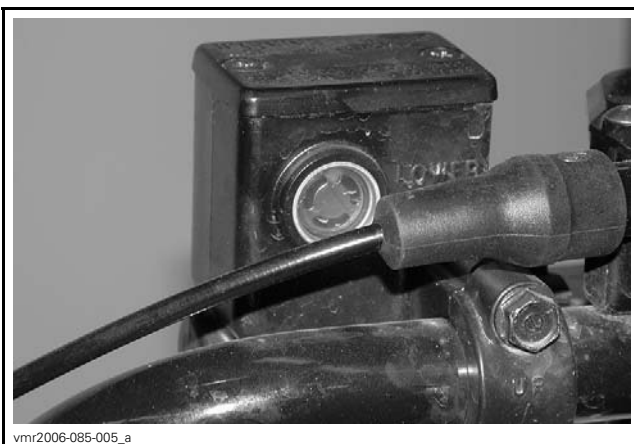
Recommended Brake Fluid

Use BRAKE FLUID (DOT 4) (P/N 293 600 131).

NOTICE Use DOT 4 brake fluid from a sealed container only.

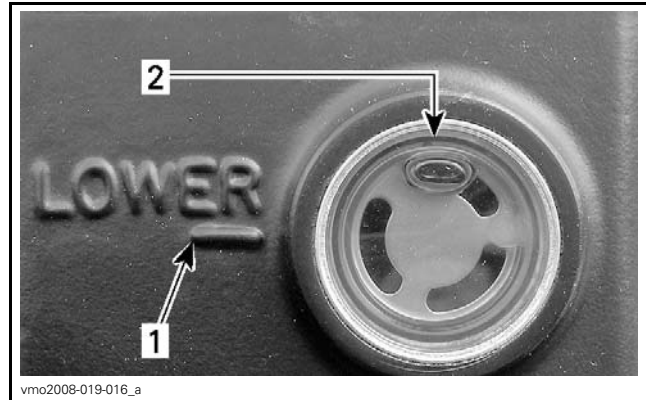
Front Brake Fluid Verification

1. Park vehicle straight on a level surface.
2. Place steering in the straight ahead position.
3. Locate front brake fluid reservoir on the right side of handlebar.



vmr2006-085-005_a
FRONT BRAKE FLUID RESERVOIR (RH)

4. Check brake fluid through the window.



vmo2008-019-016_a
1. MIN. mark
2. MAX. mark

5. Ensure fluid reaches top of the window.
6. If necessary, add recommended brake fluid.

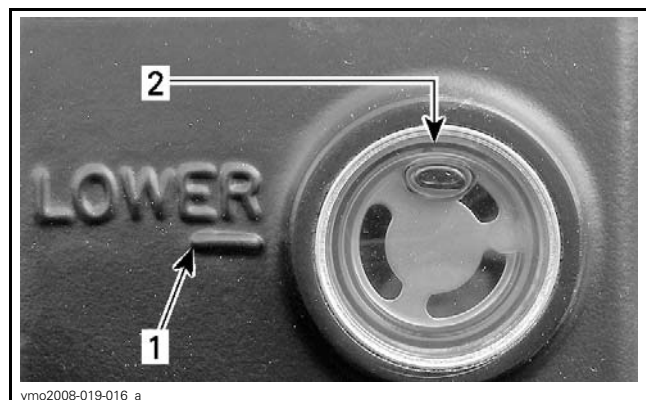
Rear Brake Fluid Verification

1. Park vehicle straight on a level surface.
2. Place steering in the straight ahead position.
3. Locate rear brake fluid reservoir on the left side of handlebar.



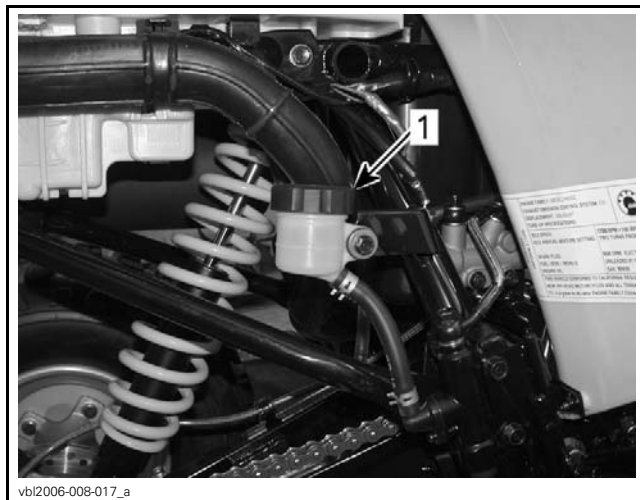
vmr2006-085-004
REAR BRAKE FLUID RESERVOIR (LH)

4. Check brake fluid through the window.



vmo2008-019-016_a
1. MIN. mark
2. MAX. mark

5. Ensure that fluid reaches the top of window.
6. If necessary, add recommended brake fluid.
7. Locate rear brake fluid reservoir on the right side of vehicle.



1. Rear brake fluid reservoir (RH)

8. Check brake fluid level.
9. Ensure that fluid is between LOWER and UPPER marks.
10. If necessary, add recommended brake fluid.

SET-UP

Tire Pressure

Ensure that tires are inflated to the specified air pressure. Refer to *WHEELS*.

Brake Discs Cleanup

1. Clean front and rear brake discs using PULLEY FLANGE CLEANER (P/N 413 711 809).

NOTICE A thin layer of anticorrosion product can be present on the brake disc and must be removed before using the vehicle. Not conforming to this procedure may lead to a brake chattering and the brake pads replacement would be necessary to solve the problem.

Protective Materials

Ensure that all protective materials are removed from vehicle.

ADJUSTMENTS

General Guidelines

All adjustments have already been performed at factory; it is only necessary to validate them. However, if readjustment is needed, refer to the appropriate *ATV SHOP MANUAL* for the proper procedure.

Carburetor

Inspect the following items and adjust if required:

- Idle speed
- Throttle cable
- Choke cable.

Drive Chain

⚠ WARNING

Place ignition switch to OFF before checking, adjusting or lubricating the drive chain.

NOTICE Never operate this vehicle with the drive chain too loose or too tight as severe damage to the drive components can occur.

NOTE: This vehicle is equipped with O-ring sealed permanently greased pins and rollers chain.

Drive Chain Inspection

Check for damaged O-rings or rollers.

Drive Chain Cleaning and Lubrication

NOTICE Never wash the chain with a high pressure washer or gasoline; damage to the O-rings will result, causing premature wear and drive chain failure.

NOTICE Never use commercial chain lubricants containing solvent which could damage the O-rings.

1. Clean the side surfaces of the chain with a dry cloth; DO NOT BRUSH CHAIN.
2. Lubricate with an appropriate O-ring chain lubricant.

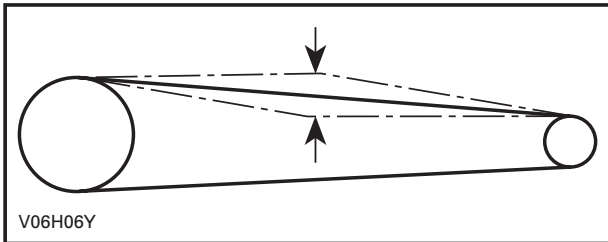
Drive Chain Free Play Verification

NOTICE Always check and adjust drive chain with the driver, or equivalent weight, seated on the vehicle.

1. Select a level surface and set transmission to NEUTRAL.

2. Ensure that the driver, or equivalent weight, is seated on the vehicle.
3. Check drive chain free play at midway between sprockets, on upper run of drive chain.
4. Drive chain free play must allow the following vertical movement by hand.

DRIVE CHAIN FREE PLAY
15 mm to 25 mm (.6 in to 1 in)



CHAIN DEFLECTION

5. Adjust if required.

Transmission Lever

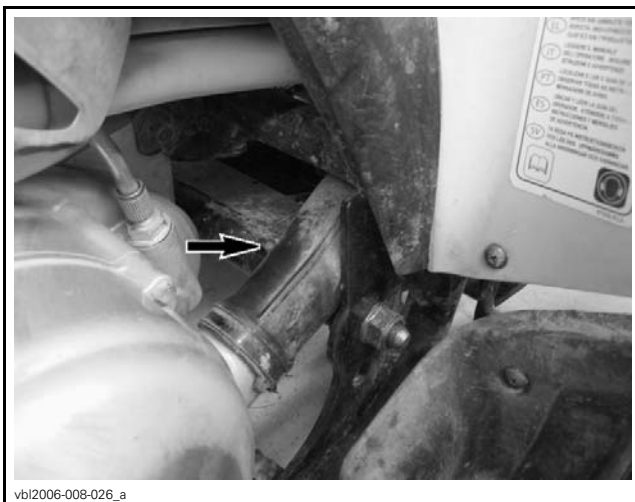
Verify that transmission lever works properly and adjust if required.

Suspension

Swing Arm Pivot Lubrication

1. Grease rear swing arm using SUSPENSION GREASE (P/N 293 550 033).
2. Pump grease in, through grease fitting, until grease starts squirting out on sides.

NOTE: Grease fitting (shown by arrow) is located on swing arm pivot on left side near CVT air outlet hose.



GREASE FITTING

Brake

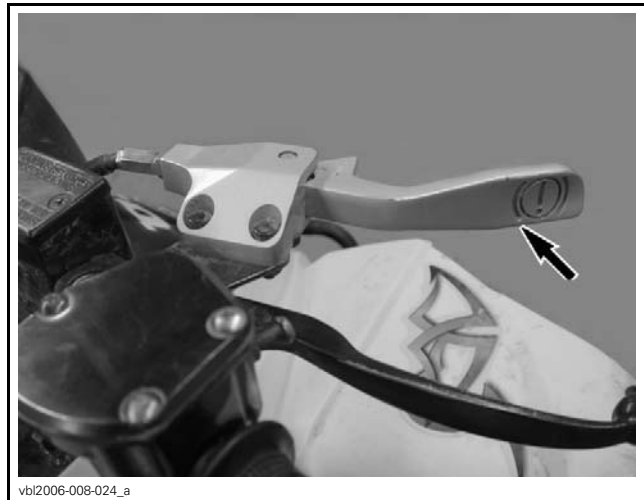
Brake System Pressurization

1. Activate both handlebar brake levers as well as the foot pedal.
2. If the brakes feel spongy, pump the handlebar brake levers as well as the pedal.
3. Continue until brakes have a firm feel and work properly.

Parking Brake Adjustment

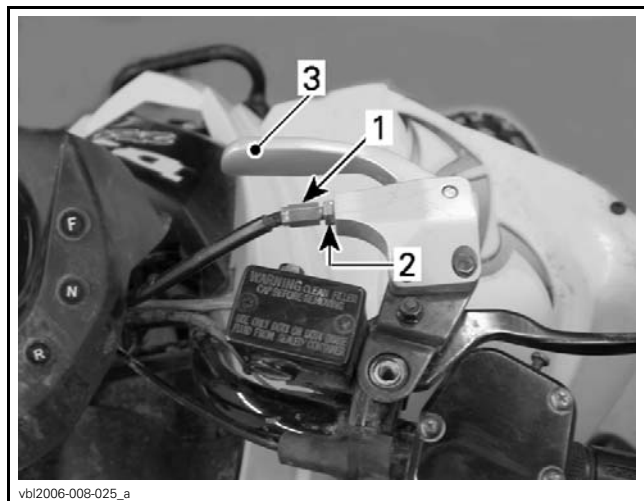
Other Countries Only

1. Apply parking brake lever.



PARKING BRAKE LEVER

2. Try pushing vehicle forward and backward.
3. If vehicle does not move, parking brake adjustment is correct.
4. If vehicle moves, release parking brake lever and adjust cable using cable adjuster nut.



1. Cable adjuster nut
2. Lock nut
3. Parking brake lever

5. Apply parking brake and recheck.
6. Repeat operation until vehicle stops moving forward and backward when parking brake is applied.

NOTE: Vehicle should move freely when parking brake is released.

ASSEMBLY INSPECTION

Inspect the following parts to make sure that the vehicle is properly assembled.

- Handlebar tightness
- Wheel nut torque
- Drive chain lubrication
- Tubes/hoses routing and condition
- Steering column cotter pin
- Suspension arm ball joint cotter pins
- Tie rod end nuts and cotter pins
- Wheel lug nuts and cotter pins
- Complete applicable recall or factory-directed modification.

FINAL INSPECTION

Vehicle Test Run

Ride the vehicle to ensure proper operation of all systems and components.

Vehicle Cleaning

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

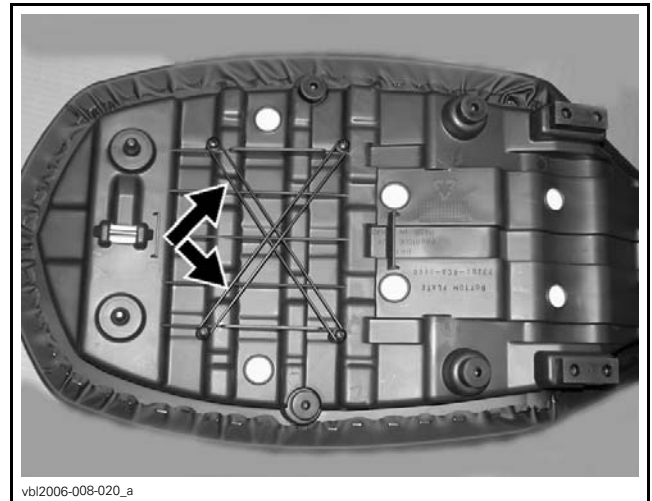
NOTICE It is necessary to use flannel clothes or Kimtowel[†] wipes on plastic parts to avoid damaging surfaces. Never clean plastic parts with strong detergent, de greasing agent, paint thinner, acetone, products containing chlorine, etc.

1. Wash and dry vehicle.
2. Remove any dirt and dust.
3. Clean vinyl and/or plastic parts, using flannel clothes with (P/N 413 711 200).
4. Clean the entire vehicle, including metallic parts, with BRP HEAVY DUTY CLEANER (P/N 293 110 001).

[†] Kimtowel is a trademark of Kimberly-Clark.

Delivery to Customer

1. Ensure that *OPERATOR'S GUIDE* is located underneath seat.



OPERATOR'S GUIDE LOCATION

2. Complete the *PREDELIVERY CHECK LIST*.
3. Give *OPERATOR'S GUIDE* and *SAFETY DVD* to customer.

NOTE: The customer must read and sign the *PREDELIVERY CHECK LIST*.

NOTE: Any hang tag is to be removed by the owner only.

NOTE: Any person who rides this vehicle should read and understand all the information given on hang tag and safety labels before riding.

TECHNICAL DATA

VEHICLE MODEL		DS 250
ENGINE		
Type	4-stroke. Single overhead camshaft engine, liquid cooled	
Number of cylinder	Single cylinder	
Number of valves	4 valves with mechanical lifters (adjustable)	
Displacement	249.4 cm ³ (15.2 in ³)	
Bore	71 mm (2.8 in)	
Stroke	63 mm (2.5 in)	
Starting system	Electric starter	
Compression ratio	10.6:1	
Lubrication	Forced circulation and splashing	
Air filter	Sponge wet type	
TRANSMISSION		
Transmission	Continuously Variable Transmission (CVT) HI range (F), neutral and reverse	
COOLING		
Type	Liquid cooled	
Radiator	Front mounted	
CARBURETION		
Carburetor	Type	KEHIN PTG-23 with manual choke
Choke	Variable	
Idle speed	1700 ± 100 RPM	
ELECTRICAL SYSTEM		
Magneto generator	Type	338 W @ 5000 RPM
Ignition type	CDI (Capacitor Discharge Ignition)	
Ignition timing	Not adjustable	
Spark plug	Make	NGK
	Type	CR8E
	Gap	0.8mm (.031 in)
Number of spark plug	1	
Battery	Type	Wet type battery
	Volt	12 volts, 10 A•h (Ampere hour)
Starting system	Electric start	
Headlight bulbs	2 x 35 W	
Taillight bulb	1 x 5/21 W	
Indicator lamps	1.7 W	
Fuses	Fan motor	10 A
	Headlights	15 A
	Other lights	15 A
	Main fuse	30 A

VEHICLE MODEL		DS 250
DRIVE SYSTEM		
Rear axle		Chain driven/solid axle
STEERING SYSTEM		
Turning radius		3.5 m (11.5 ft) at low speed
SUSPENSION		
Front	Type	Independent suspension — double A-arm, 2 shock absorbers (oil)
	Travel	140 mm (5.5 in)
Rear	Type	Rigid swing-arm, 1 shock absorber (oil)
	Travel	170 mm (6.7 in)
TIRES		
Pressure	Front	Maximum: 34 kPa (5 PSI) Minimum: 26 kPa (3.8 PSI)
	Rear	
Size	Front	22 x 7–10
	Rear	20 x 11–9
WHEELS		
Size	Front	AT 10 x 5.5
	Rear	AT 9 x 8
Wheel nuts torque		50 N•m ± 5 N•m (37 lbf•ft ± 4 lbf•ft)
BRAKES		
Front		Hydraulic, 2 discs
Rear		Hydraulic, 1 disc
Parking device		RH brake lever includes a parking brake
WEIGHT AND LOADING CAPACITY		
Dry weight		195 kg (430 lb)
Total vehicle load allowed		150 kg (330 lb) (includes operator, all other loads and added accessories)
DIMENSIONS		
Overall length		183 cm (72 in)
Overall width		103 cm (40.6 in)
Overall height		110.5 cm (43.5 in)
Seat height		80 cm (31.5 in)
Wheelbase		118.7 cm (47 in)
Ground clearance (Center of vehicle)		26 cm (10.2 in)
FLUIDS		
Engine oil type		For the summer season, use XPS SYNTHETIC BLEND OIL (SUMMER GRADE) (P/N 293 600 121) For the winter season, use XPS SYNTHETIC OIL (WINTER GRADE) (P/N 293 600 112)
Gearbox oil		XPS CHAINCASE OIL (P/N 415 129 500)
Coolant		BRP PREMIXED COOLANT (P/N 219 700 362)
Fuel	Type	Regular unleaded gasoline
	Octane	Inside North America: 87 (R + M)/2 Outside North America: 92 RON or higher
Brake		Brake fluid, DOT 4

VEHICLE MODEL	DS 250
CAPACITIES	
Fuel tank	12.5 L (3.3 U.S. gal.)
Engine	1.2 L (1.3 qt (U.S. liq.)) (oil change)
Gearbox oil	800 ml (.8 qt (U.S. liq.)) (oil change)
Coolant	850 ml (.9 qt (U.S. liq.)) (engine and radiator)