

July 18, 2011

Subject: **Can-Am™ DS 450™**  
**Predelivery Inspection**

No. **2012-3**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2012	DS 450™	3FCA	All
	DS 450 X™ xc	3GCA	
	DS 450 X mx	3HCA / 3HCB / 3HCC	

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## IMPORTANT NOTICE

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

### **WARNING**

To obtain warranty coverage, predelivery procedures must be performed by an authorized BRP Can-Am ATV dealer/distributor. Apply all necessary torques as indicated.

**NOTE:** The information and components/system descriptions contained in this document are correct at the 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 the manufactured product and the 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.

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

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

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

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

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

### **WARNING**

Torque wrench tightening specifications must be strictly adhered to. Where specified, install new locking devices (e.g. lock tabs, elastic stop nuts). If the efficiency of a locking device is impaired, it must be renewed.

## UNCRATING

1. Carefully lay the crate on its bottom on a firm, level surface.

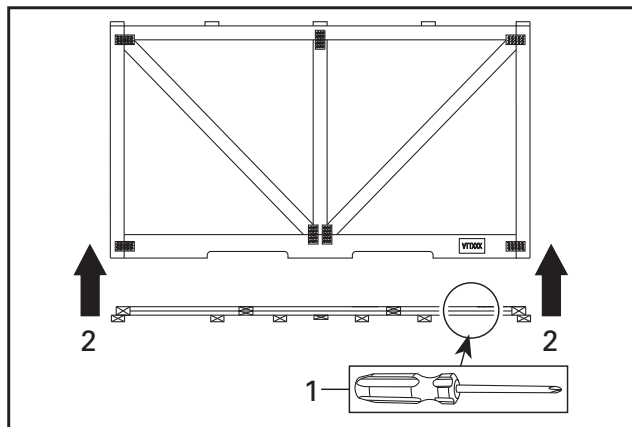
**NOTICE** Allowing the crate to drop may cause serious damages to vehicle.

2. Remove all screws retaining crate cover to crate base. Screws that are used are Robertson† #2 type that require the use of an appropriate screwdriver.

3. Assisted by another person, lift up crate cover.

**NOTICE** Never tip cover toward the front or rear of the vehicle while lifting it.

4. Raise cover vertically from both ends at the same time.



1. Screwdriver
2. Lift up crate cover

5. Remove protective wrapping from the vehicle.

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

6. Remove boxes from crate base.

7. Remove parts and equipments from crate base.

8. Remove straps, hooks and brackets retaining vehicle to crate base.

### **⚠ WARNING**

Never stand at front or at rear of the vehicle while straps are being cut.

9. Slowly move vehicle out of the crate base. Do not use brake to stop the vehicle.

**NOTICE** A thin layer of anticorrosion treatment is present on the brake disc and must be removed before using the vehicle. Not conforming to this procedure may lead to a brake chattering, squeaking and brake pads replacement would be necessary.

10. Select the first gear to avoid vehicle movement.

11. Ensure that the crate includes the following items:

#### *All Models Except CE*

ITEM	DESCRIPTION	QTY
1	First oil change kit	1
2	Handlebar Wind Deflectors (X xc model)	1

#### *CE Models*

ITEM	DESCRIPTION	QTY
1	First oil change kit	1
2	Mirror kit	1
3	Vehicle lock kit	1

**NOTE:** This vehicle comes with a hang tag and labels containing important safety information. Do not remove hang tag from vehicle, they are considered permanent parts of the vehicle.

## PARTS TO BE INSTALLED

### Battery

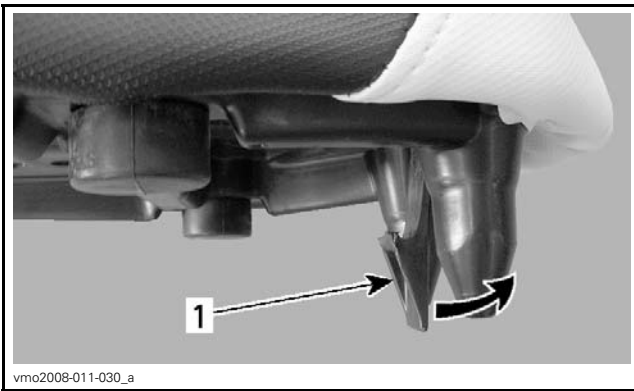
#### Battery Removal

### **⚠ WARNING**

Battery BLACK (-) lead must always be disconnected first and connected last. Never charge or boost battery while installed on vehicle.

1. Remove seat from vehicle.

† Robertson is a registered trademark of Robertson Inc.



1. Seat latch

2. Remove retaining screws securing battery bar to vehicle.
3. Remove battery from vehicle.

### Battery Preparation

Refer to the latest **CAN-AM ATV VEHICLES BATTERIES ACTIVATION, CHARGING AND MAINTENANCE BULLETIN** for proper activating, charging and maintenance procedure.

### Battery Installation

NOTE: The battery should be installed only when properly activated and charged.

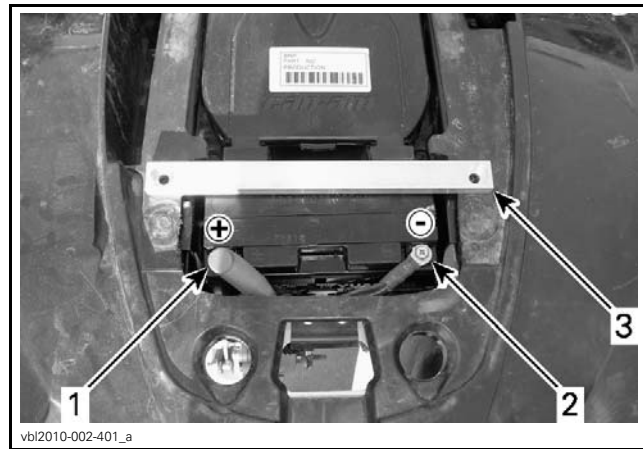
1. Install charged battery on vehicle.

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

2. Apply DIELECTRIC GREASE (P/N 293 550 004) on battery posts.
3. Connect RED (+) cable to positive battery post.
4. Connect BLACK (-) cable to negative battery post.

**NOTICE** Always connect RED (+) cable first and then BLACK (-) cable.

5. Secure battery to vehicle using retaining bar and screws.
6. Cover positive post with rubber boot.



1. RED (positive cable)  
2. BLACK (negative cable)  
3. Battery retaining bar

## Handlebar Wind Deflector

*X xc Models*

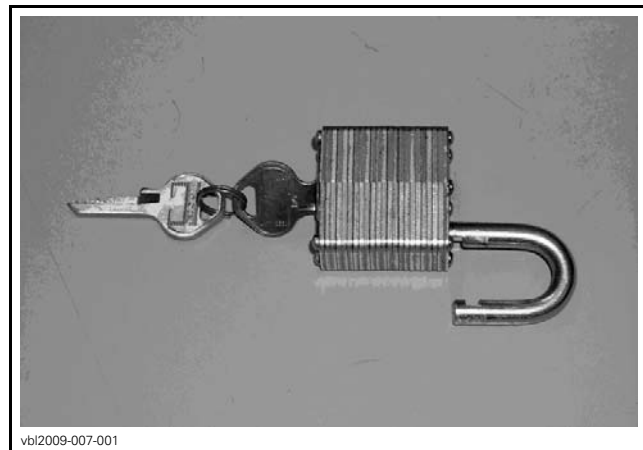
Refer to instruction sheet provided with the kit.

## Vehicle Lock

*CE Models*

For the European Community models, a locking device is required to avoid vehicle from moving when needed.

This locking device is located inside a bag in the crate. Refer to the *OPERATOR'S GUIDE* for locking device operation procedure.



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## Accessory Installation

Install accessories (if any) as per their installation instructions (included in each kit).

## Equipment Required by Local Law

Install any other equipment required by local law (if any). Such as:

- Mirrors
- Flag holder
- Etc.

## Vehicle Decals

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

## 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.

**NOTICE** Never mix oil with fuel, these vehicles are equipped with a 4-stroke engine.

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

**⚠ WARNING**

- Always stop engine before refueling. Open reservoir cap slowly.
- If a differential pressure condition is noticed (whistling sound heard when loosening fuel reservoir 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 spillage from the vehicle.

### Recommended Fuel

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

COUNTRY	MINIMUM OCTANE NUMBER
North America	91 octane (RON + MON) / 2
Outside North America	95 RON

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

### Engine Oil

**NOTICE** Check level frequently and refill if necessary. Do not overfill. Operating the engine/transmission with an improper level may severely damage engine/transmission. Wipe off any spillage.

NOTE: The same oil lubricates both engine and transmission.

### Important Notice

The Can-Am DS 450 is the most advanced sport ATV and it has been designed using the latest technology all the way down to its synthetic multilayer oil filter and break-in oil.

Change engine break-in oil and filter after using **3 fuel tanks or 5 hours of riding (whichever comes first)** to maintain the DS 450 at the highest level of performance.

### Recommended Engine Oil

Use XPS 4-STROKE BLEND OIL (SUMMER GRADE) (P/N 293 600 121).

NOTE: The XP-S SUMMER GRADE OIL is specially formulated and tested for the severe requirements of this engine.

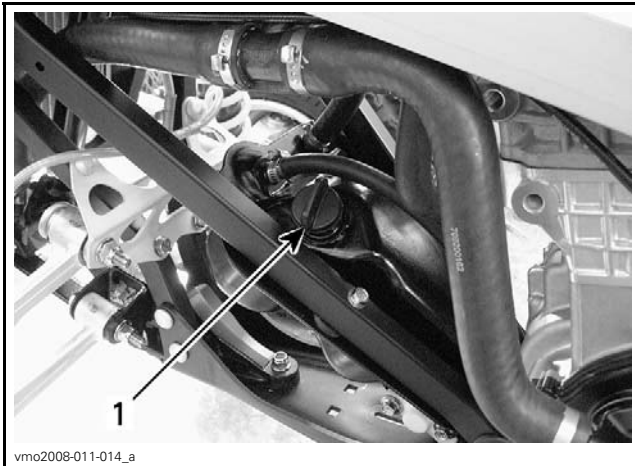
If not available, use a 5W 40 oil formulated for wet clutch type gearbox.

**NOTICE** The engine oil must be thoroughly tested to be free of any additives that could impair the functionality of the clutch. Do not use a motor oil meeting the API service SM or ILSAC GF-4 classification. Clutch slippage will occur.

### Engine Oil Level Verification

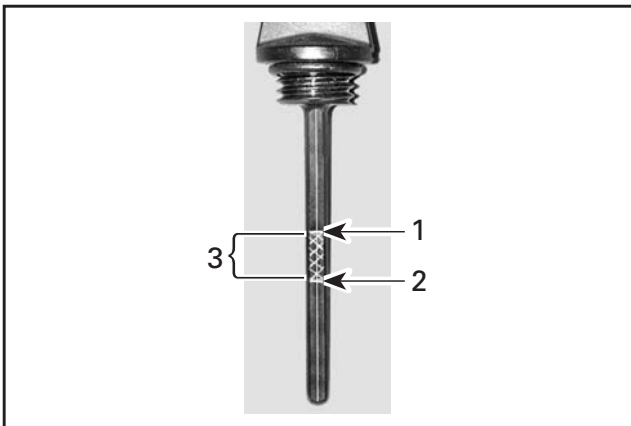
1. Park vehicle straight on a level surface.

2. Start engine and let it run for at least 1 minute.
3. Stop engine and let it stand for at least 1 minute.
4. Unscrew and remove oil dipstick.



**LH SIDE OF VEHICLE**  
1. Oil Dipstick

5. Wipe dipstick.
6. Reinstall and screw in the dipstick completely.
7. Unscrew and remove the dipstick.
8. Check oil level as per the following illustration.



**TYPICAL - OIL DIPSTICK**  
1. Full  
2. Add  
3. Operating Range

9. Ensure that oil level is between ADD and FULL marks.
  10. If necessary, add recommended engine oil.
  11. Reinstall and screw in the dipstick completely.
- NOTE:** Do not overfill.

## Engine Coolant

### **⚠ WARNING**

In order to avoid potential burns, do not remove the coolant tank cap if the engine is hot.

### **⚠ WARNING**

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

**NOTICE** Do not overfill coolant reservoir.

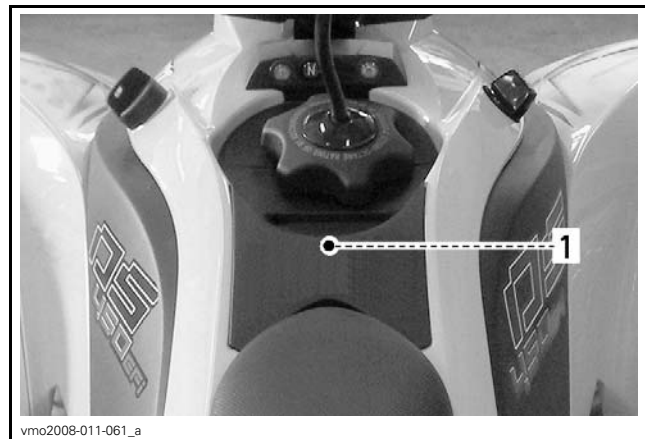
### Recommended Coolant

Always use ethylene-glycol antifreeze containing corrosion inhibitors specifically for internal combustion aluminum engines.

Cooling system must be filled with a mix of ethylene-glycol and distilled water (50% coolant, 50% distilled water). Use the BRP PREMIXED COOLANT (P/N 219 700 362) or a coolant specially designed for aluminum engines.

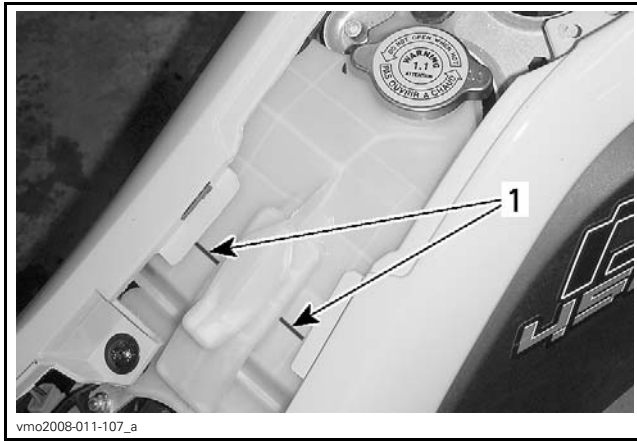
### Coolant Level Verification

1. Park vehicle straight on a level surface.
2. Remove seat.
3. Remove fuel tank cap.
4. Remove access cover.



1. Access cover

5. Check coolant reservoir level.
6. Ensure that fluid reaches the level marks (small ribs).



1. Level marks (small ribs)

7. If necessary, add recommended coolant.
8. Reinstall access cover.
9. Reinstall fuel tank cap.
10. Reinstall seat.

**NOTE:** Coolant may be slightly lower when checking level at temperature lower than 20°C (68°F).

**NOTE:** Do not overfill coolant reservoir.

## Brake Fluid

**NOTICE** Be sure to clean reservoir caps before removing it to avoid contaminating the oil.

### Recommended Fluid

Use brake fluid meeting the specification DOT 4 such as the BRAKE FLUID (P/N 293 600 131) from a sealed container.

**⚠ WARNING**

To avoid serious damage to the braking system, do not use fluids other than the recommended one, nor mix different fluids for topping up.

### Brake Lever Fluid Level Verification

1. Park vehicle straight on a level surface.
2. Turn steering in the straight-ahead position to ensure reservoir is level.
3. Check brake fluid level in reservoir.
4. Ensure that the window is dark (FULL).



**BRAKE LEVER RESERVOIR**

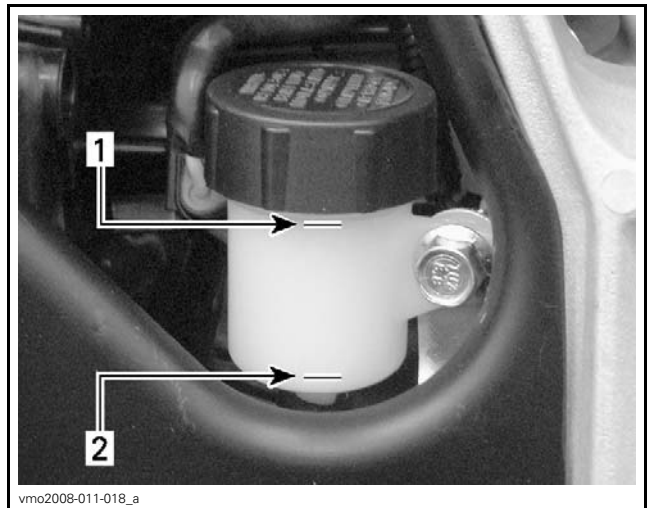
1. Dark window
2. Clear window

5. If window is clear, add recommended brake fluid. **Do not overfill**

**NOTICE** Be careful not to damage the diaphragm while removing and installing handlebar reservoir cap.

### Brake Pedal Fluid Level Verification

1. Park vehicle straight on a level surface.
2. Check the brake fluid level.



**RH SIDE OF VEHICLE**

1. MAX. mark
2. MIN. mark

3. Ensure that fluid is between MIN. and MAX. marks.
4. If necessary, add recommended brake fluid. **Do not overfill**

**NOTICE** Be careful not to damage the diaphragm while removing and installing reservoir cap.

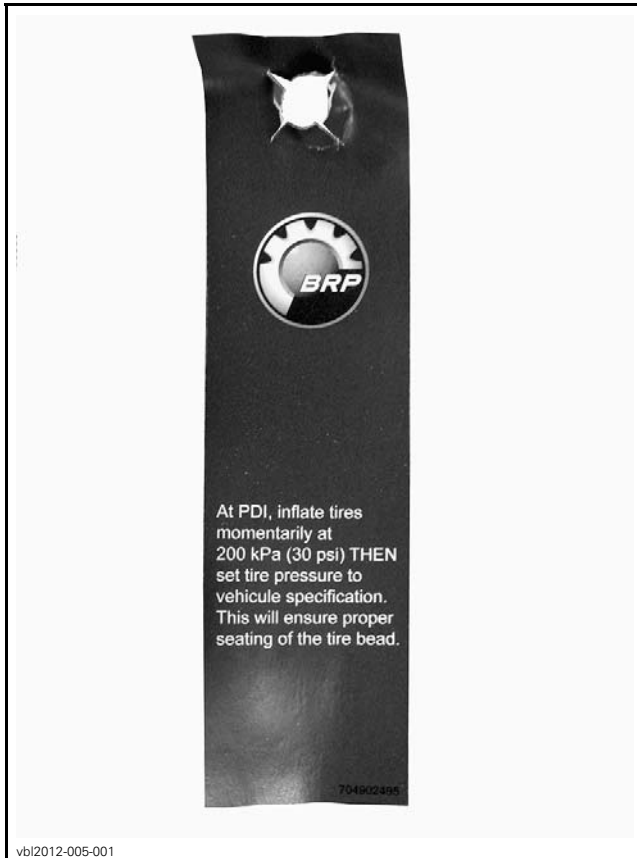
# SET UP

## Tire Pressure

**NOTICE** Inflate tires at 200 kPa (30 PSI) THEN set tire to vehicle specification. This will ensure proper seating of the tire bead.

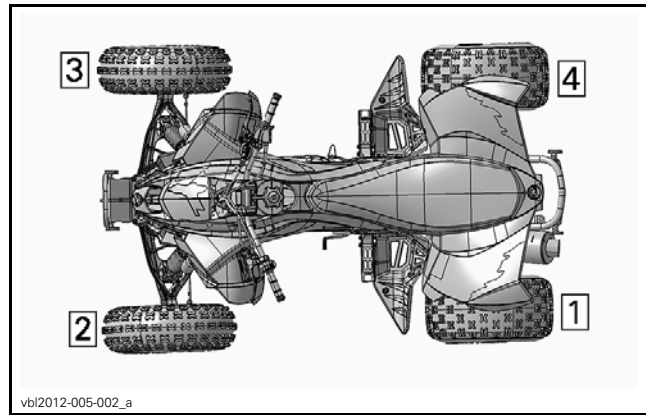
### Initial Inflating

1. Read and remove hang tag from tire valve.



TYPICAL – TIRE PRESSURE HANG TAG

2. As indicated on the hang tag, inflate tires at 200 kPa (30 PSI) according to the following sequence.



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**TYPICAL**

- Step 1: Inflate LH rear tire
- Step 2: Inflate LH front tire
- Step 3: Inflate RH front tire
- Step 4: Inflate RH rear tire

3. Refer to *INFLATING TO SPECIFICATION* to complete inflating procedure.

### Inflating to Specification

Set tires to specification using the same sequence than the initial inflating, refer to the following table.

#### DS 450/DS 450 X xc

TIRE PRESSURE		FRONT	REAR
Up to 100 kg (220 lb)	MAXIMUM	48.3 kPa (7 PSI)	
	MINIMUM	34.5 kPa (5 PSI)	

#### DS 450 X mx

TIRE PRESSURE		FRONT	REAR
Up to 100 kg (220 lb)	MAXIMUM	69 kPa (10 PSI)	62 kPa (9 PSI)
	MINIMUM	55 kPa (8 PSI)	48 kPa (7 PSI)

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

## Brake Disk Cleanup

Clean front and rear brake discs using XPS BRAKES AND PARTS CLEANER (P/N 219 701 705).

**NOTICE** A thin layer of anticorrosion treatment is present on the brake disc and must be removed before using the vehicle. Not conforming to this procedure may lead to a brake chattering, squeaking and brake pads replacement would be necessary.



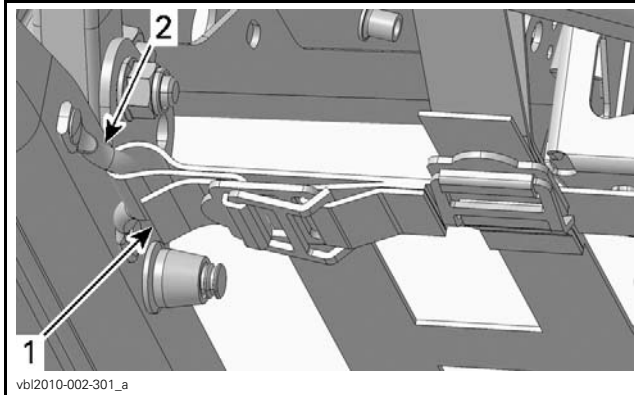
## Protective Materials

Ensure that all protective materials are removed from vehicle.

## Nerf Bars

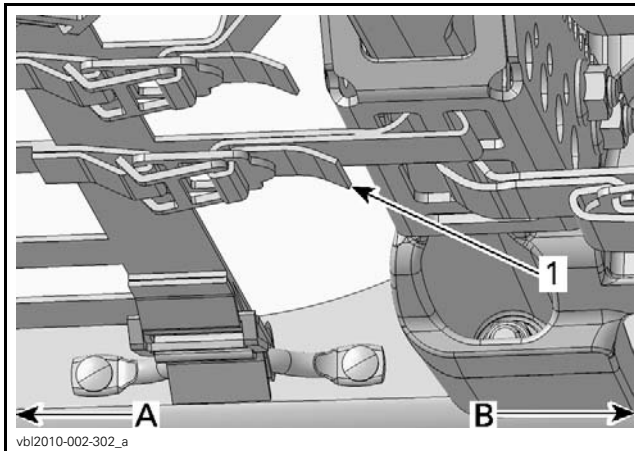
*X xc and X mx Models*

1. Secure nerf bar straps to frame as illustrated.



1. Nerf bar strap
2. Frame hook

2. Secure nerf bar strap to footpeg as illustrated.



1. Nerf bar strap
- A. Towards front of vehicle
- B. Towards rear of vehicle

**⚠ WARNING**

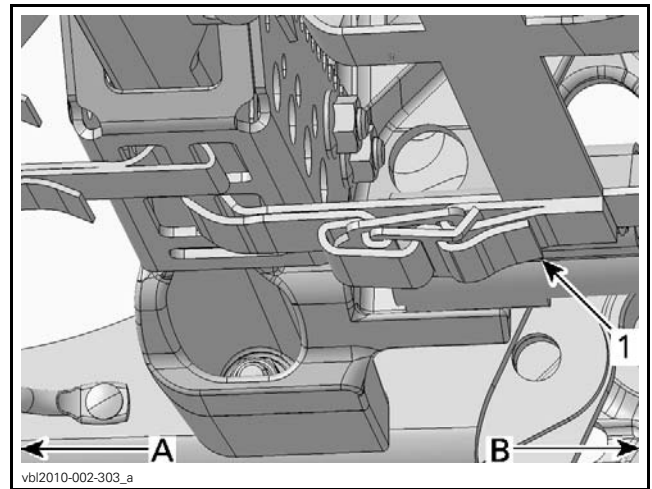
Check for nets clearance by standing up on foot pegs and moving feet in all directions. Feet must not interfere with nerf bar nets.

## Rear Baskets

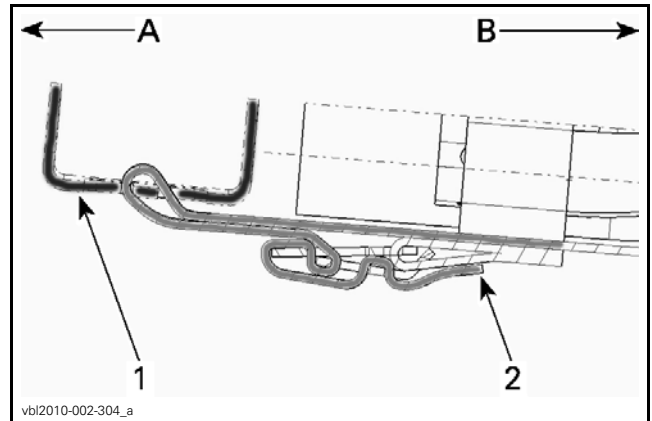
*X mx Models*

1. Secure rear basket strap to footpeg as illustrated.

**NOTE:** Strap end must exit towards the rear of vehicle in order to avoid unfastening.

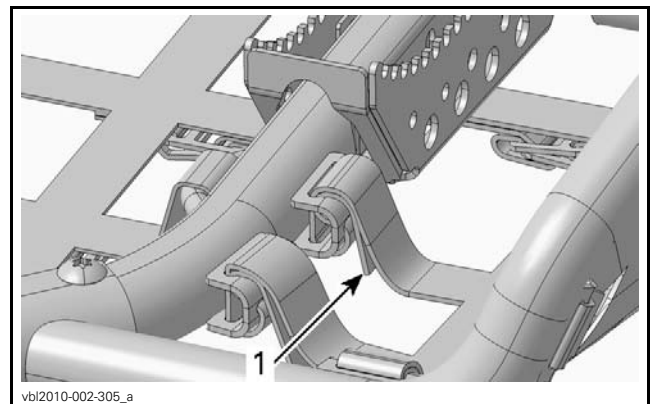


1. Rear basket strap
- A. Towards front of vehicle
- B. Towards rear of vehicle



1. Footpeg
2. Strap end
- A. Towards front of vehicle
- B. Towards rear of vehicle

2. Secure rear basket straps to tube as illustrated.



- LH SIDE**
1. Rear basket strap

# ADJUSTMENTS

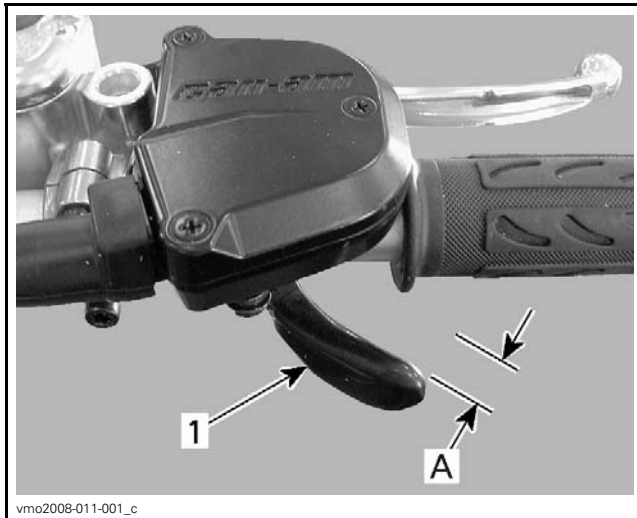
## General Guidelines

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.

## Throttle Lever

1. Verify that throttle lever is properly adjusted as per the following specification.

THROTTLE LEVER ADJUSTMENT	
Free play [A] (Measured at the tip of throttle lever)	2 mm to 4 mm (5/64 in to 5/32 in)



THROTTLE LEVER ADJUSTMENT

1. Throttle lever

A. Free play of 2 mm to 4 mm (5/64 in to 5/32 in)

2. Adjust if required.

## Drive Chain

### ⚠ WARNING

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

## Drive Chain Inspection

1. Inspect drive chain for:
  - Damaged rollers
  - Damaged or missing O-rings

- Kinked or binding links
- Rotated pins.

## Drive Chain Cleaning and Lubrication

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

Clean the side surfaces of the chain with a dry cloth.

NOTE: Do not brush chain.

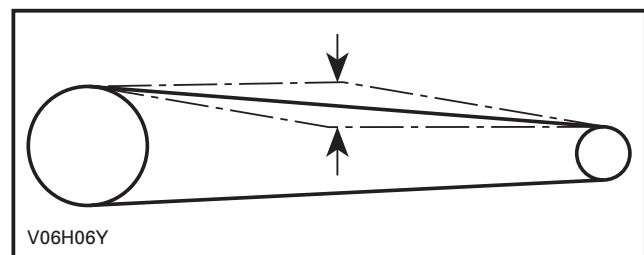
Lubricate only with an approved O-ring chain lubricant. Other commercial chain lubricants may contain solvent which could damage the O-rings.

## 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	22 mm (7/8 in)
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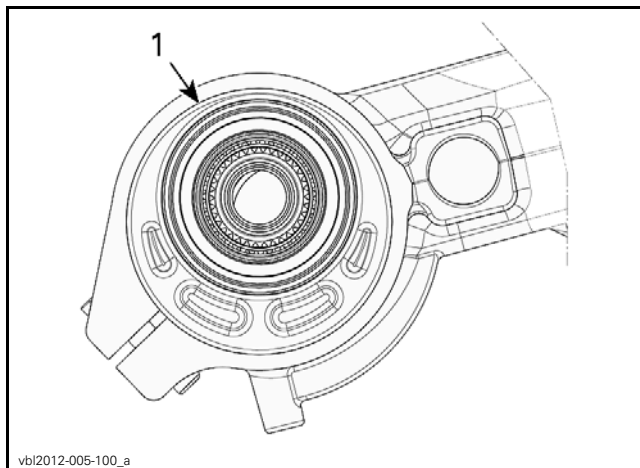
CHAIN DEFLECTION

5. Adjust if required. Refer to *DRIVE CHAIN ADJUSTMENT*.

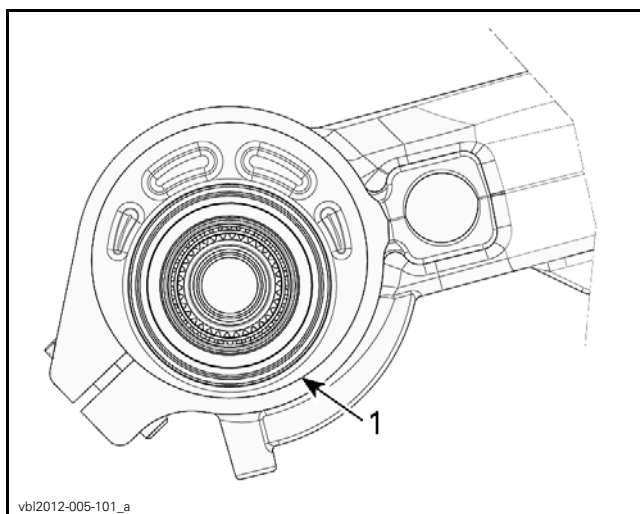
## Eccentric Axle Housing Positioning

For a more consistent ride height adjustment and to protect the frame from unnecessary bottoming, always position the eccentric axle housing as per the following illustrations.

When performing a chain adjustment, be sure the eccentric axle housing is properly indexed.



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**ALL DS450 EXCEPT X mx MODELS (CA/US AND INT'L)**  
 1. Thin side of eccentric axle housing

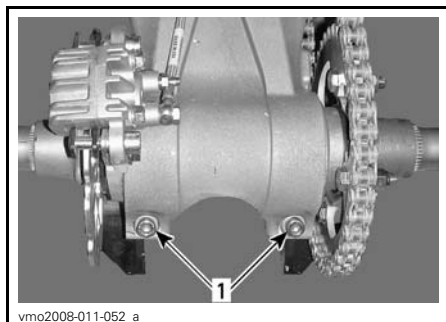


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**X mx MODELS (CA/US AND INT'L)**  
 1. Thin side of eccentric axle housing

### Drive Chain Adjustment

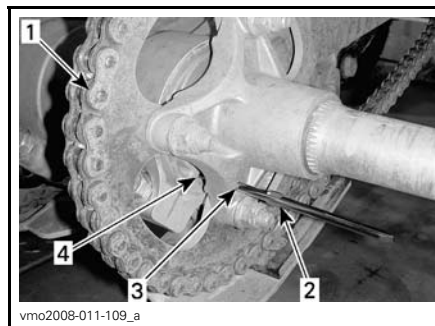
**NOTE:** Always adjust drive chain with the driver, or equivalent weight, seated on the vehicle.

1. Select a level surface and set transmission to NEUTRAL.
2. Loosen rear axle lock bolts.



vmo2008-011-052\_a  
 1. Rear axle lock bolts

3. Insert screwdriver pin (tool kit) through sprocket hub and into eccentric axle housing.



vmo2008-011-109\_a  
 1. Drive chain  
 2. Screwdriver pin (tool kit)  
 3. Sprocket hub  
 4. Eccentric axle housing

4. With the screwdriver pin properly in place, push or pull the vehicle to increase or to decrease chain free play. Refer to the following table for proper adjustment.

MODEL	ADJUSTMENT METHOD	CHAIN FREE PLAY
DS 450 DS 450 X xc	To decrease free play: <b>PULL</b> vehicle backwards	22 mm (7/8 in) at midpoint between sprockets
DS 450 X mx	To decrease free play: <b>PUSH</b> vehicle forward	

**NOTICE** Always use the right drive chain adjustment method according to the your model. Damage to the vehicle can occur if the drive chain is adjusted using a wrong method.

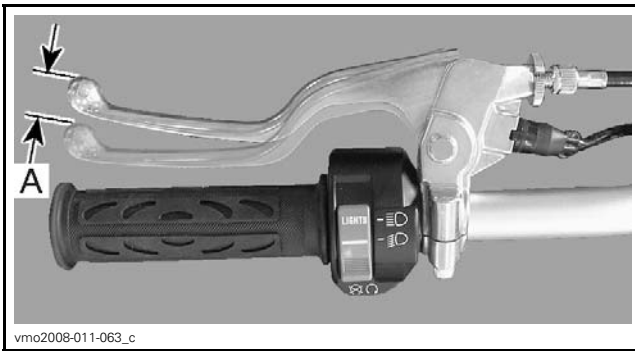
5. Tighten the rear axle lock bolts.

REAR AXLE LOCK BOLTS TIGHTENING TORQUE
48 N•m ± 6 N•m (35 lbf•ft ± 4 lbf•ft)

### Clutch Lever

1. Verify that clutch lever is properly adjusted as per the following specification.

CLUTCH LEVER ADJUSTMENT	
Free play [A]	10 mm to 15 mm (3/8 in to 5/8 in)

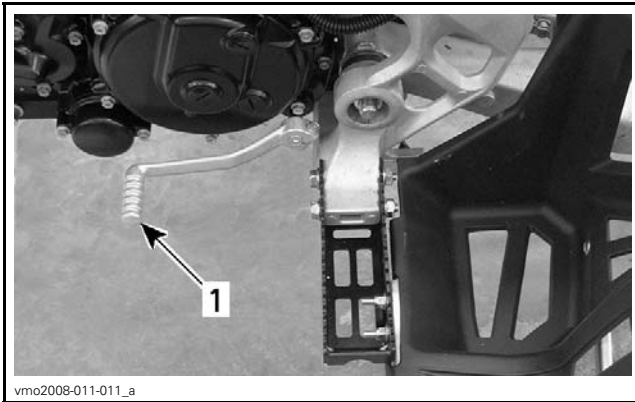


**CLUTCH LEVER ADJUSTMENT**  
A. Free play of 10 mm to 15 mm (3/8 in to 5/8 in)

2. Adjust if required.

## Gearshift Pedal

Adjust gearshift pedal as per the owner's preference.



**LH SIDE OF VEHICLE**  
1. Gearshift pedal

## Suspension

### **⚠ WARNING**

Adjust both shock absorbers identically. Uneven adjustment can cause poor handling and loss of stability, and/or control, and increase the risk of an accident.

### **⚠ WARNING**

The front and rear shock includes a damper unit that contains high pressure nitrogen gas. Do not attempt to disassemble or dispose of the damper. Dispose as per your local environmental regulations.

1. Adjust the suspension as per the owner's preference.
2. If an adjustment is required, refer to the appropriate *OPERATOR'S GUIDE* for proper procedure.

3. The following adjustments are possible on front and rear suspension:
  - Spring preload
  - Low speed compression damping
  - High speed compression damping
  - Rebound damping

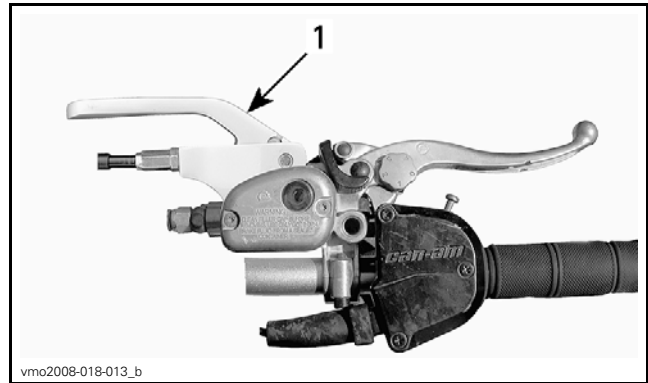
## Brake Pedal and Lever

Ensure that brake pedal and brake lever are not spongy.

## Parking Brake Lever

### *CE Models*

1. Verify that parking brake lever is properly adjusted by applying it.



1. 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 it.
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.

## Rear Track Width

### *X xc and X mx Models*

The rear track width, measured outside the wheels, can be adjusted from 117 cm to 127 cm (46 in to 50 in) by moving spacers inside or outside rear wheel hubs.

1. Adjust the rear track width as per the owner's preference.

- If an adjustment is required, refer to the appropriate *OPERATOR'S GUIDE* for proper procedure.

## Caster

### *X xc and X mx Models*

The caster angle is the angle between the vertical and the steering knuckle pivot axis in a longitudinal axis.

When a higher caster angle is set, the knuckles tend more to bring the front wheels to a straight line than with a lower angle. Also, when a higher caster angle is set, a greater force is required to steer the vehicle than with a lower angle.

- Adjust the caster as per the owner's preference.
- If an adjustment is required, refer to the appropriate *OPERATOR'S GUIDE* for proper procedure.

## Camber

### *X mx Models*

The camber angle is the angle between the vertical and the steering knuckle pivot axis in a transversal axis.

Adjusting the camber angle changes the front wheels inclination and has an effect on the steering stability and feedback.

- Adjust the camber as per the owner's preference.
- If an adjustment is required, refer to the appropriate *OPERATOR'S GUIDE* for proper procedure.

## B.U.D.S. Programming

Vehicle does not have D.E.S.S., therefore B.U.D.S. is not required to program a key.

Even if vehicle does not have a multifunction gauge, it is recommended to use B.U.D.S. to enter all start-up information in the ECM and to ensure no fault codes are active and to clear any occurred faults.

### Connecting a PC to Vehicle

- Connect the PC to vehicle. Refer to the latest edition of *CAN-AM ATV B.U.D.S. SOFTWARE AND COMMUNICATION TOOLS* for the proper connecting procedure.

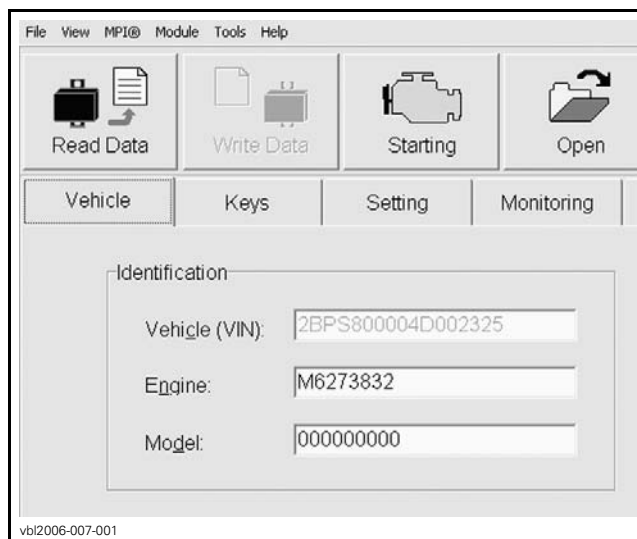
**NOTE:** The following message may be displayed. If so, it should disappear as soon as B.U.D.S. communicates. If message does not disappear, click on the **Try active detection mode** button.



- Make sure status bar shows proper Protocol.
- Press the READ DATA button from the tool bar to initiate communication with the vehicle.

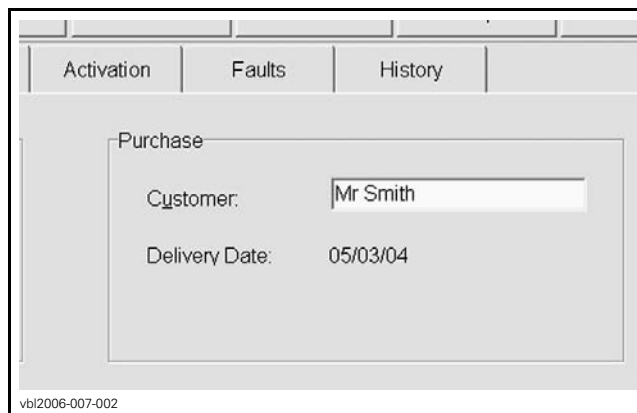
### Entering Customer's Name

- Click on the VEHICLE tab to open the vehicle information page.



VEHICLE TAB

- Type the name of the customer.

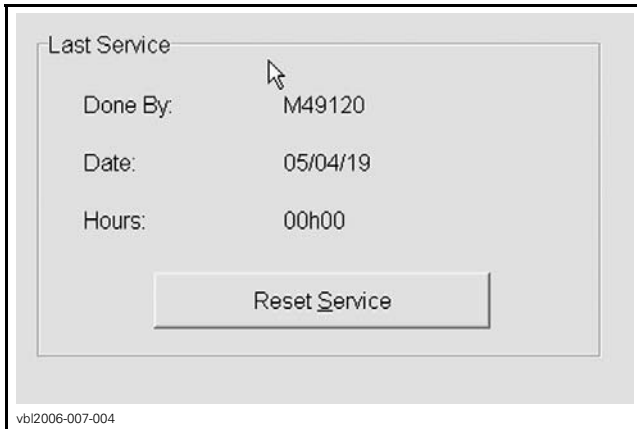


3. Click on WRITE DATA to save the information in the vehicle's ECM.

**NOTE:** After you are finished typing the name, B.U.D.S. automatically updates the Delivery Date on the screen.

### Resetting Last Service

1. Click on the RESET SERVICE button to reset the informations.



**RESET SERVICE BUTTON**

After each maintenance service, last service should be reset to keep a good tracking of the vehicle service history.

### Speedometer Units

The speedometer is factory preset in miles but it is possible to change it to kilometer reading. Any unit modification is applied to the speedometer, odometer and trip meter.

1. Select SETTING tab in B.U.D.S.
2. Select Miles or Kilometers from the CLUSTER SCALE section.

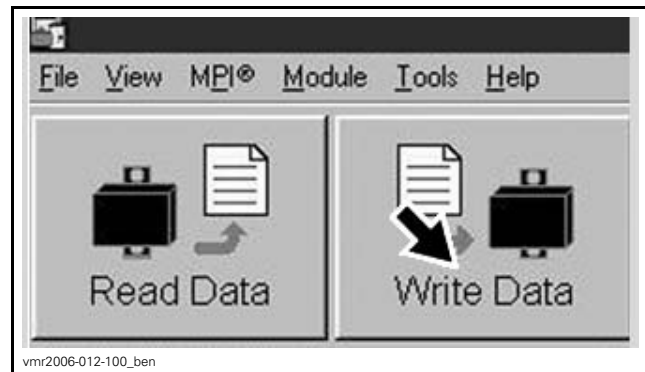
**NOTE:** No data will be lost when changing this setting.

### Ending a B.U.D.S. Session

1. Click on FAULT tab and check if there are active faults.
  - If so, service vehicle then clear the faults in B.U.D.S.

**NOTICE** After a problem has been solved, ensure to clear the fault(s) in the ECM. This will properly reset the appropriate counter(s). This will also records that the problem has been fixed in the MPEM memory.

2. Click on WRITE DATA button to transfer new settings and information to the ECM.



**WRITE DATA BUTTON**

3. Click on EXIT button to end session.
4. Disconnect all cables and hardware from vehicle.
5. Ensure to reinstall the cap over the vehicle's communication connector.

## ASSEMBLY INSPECTION

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

- Handlebar tightness
- Wheel lug nuts torque
- Tubes/hoses routing and condition
- Steering column cotter pin
- Suspension arm ball joint cotter pins
- Tie rod end nuts and cotter pins
- Wheel hub 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

1. Wash and dry the vehicle.

**NOTICE** 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.

2. Remove any dirt.
3. Clean vinyl and plastic parts, using a chamois, a flannel cloth or a microfiber cloth with XPS MULTI-PURPOSE CLEANER (P/N 219 701 709).

**NOTICE** It is necessary to use a chamois, a flannel cloth or a microfiber cloth on plastic parts to avoid damaging surfaces. Never clean plastic parts with strong detergent, degreasing agent, paint thinner, acetone, products containing chlorine, etc.

4. Clean the entire vehicle, including metallic parts, with XPS OFF-ROAD VEHICLE WASH (P/N 219 701 702).
5. Painted parts which are damaged should be properly repainted to prevent rust.

## **Delivery To Customer**

### **Before Delivery the Vehicle**

Complete the *PREDELIVERY CHECK LIST*.

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

The customer must removed any hang tag itself.

Give *OPERATOR'S GUIDE* and *SAFETY DVD* to customer.

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

**TECHNICAL DATA****Specifications**

<b>MODEL</b>		DS 450/DS 450 X XC/ DS 450 X MX
<b>ENGINE</b>		
Type		BRP Rotax®, 4-stroke. Double overhead camshaft engine, chain drive
Number of cylinder		1
Number of valves		4
Displacement		449.3 cm <sup>3</sup> (27.4 in <sup>3</sup> )
Bore		97 mm (3.82 in)
Stroke		60.8 mm (2.4 in)
Compression ratio		11.8:1
Lubrication	Type	Dry sump lubrication (lubrication of engine and transmission simultaneously)
	Oil filter	Synthetic multi-layer oil filter
Decompressor		Automatic
Exhaust system		BRP, stainless steel
Air filter		2 stage foam filter
<b>TRANSMISSION</b>		
Clutch		Wet-clutch, multi-disc
Transmission		Integrated 5 speeds constant mesh transmission
<b>COOLING</b>		
Type		Liquid cooled with integrated water pump
Radiator		Front mounted with thermostatic fan
<b>FUEL SYSTEM</b>		
Type		Electronic fuel injection with a 46 mm single throttle body
Idle speed		1800 ± 50 RPM (not adjustable)
Fuel pump	Make	Bosch
	Type	Electrical (in fuel tank)



<b>MODEL</b>		<b>DS 450/DS 450 X XC/ DS 450 X MX</b>	
<b>ELECTRICAL</b>			
Magneto generator	Make	Denso	
	Type	250 W @ 6000 RPM	
Ignition type		IDI (Inductive Digital Ignition)	
Ignition timing		Not adjustable	
Engine RPM limiter		10 200 RPM	
Spark plug	Make	NGK	
	Type	DCPR9E	
	Gap	0.7 mm to 0.8 mm (.028 in to .031 in) (apply HEAT-SINK PASTE P12 (P/N 420 897 186) on spark plug threads)	
Number of spark plug		2	
Battery	Type	Maintenance free battery type	
	Volt	12 volts, 7 A•h	
Starting system		Electric start. Start in any gear (with clutch applied or on NEUTRAL)	
Headlight bulb		2 x 35 W	
Taillight and brake light bulb		8/27 W, 1157	
Fuses	Main	20 A	
	Charging system	20 A	
	Injector/ignition	15 A	
	Fuel pump	15 A	
	ECM	5 A	
	Cooling fan and accessories	20 A	
<b>DRIVE TRAIN</b>			
Rear axle		Chain driven/solid axle	
<b>SUSPENSION</b>			
Front	Type	Independent suspension - double A-arm	
	Shock absorbers	DS 450	HPG
		DS 450 X x c/ DS 450 Xmx	HPG (fully adjustable)
	Travel	DS 450/ DS 450 X xc	241 mm (9.5 in)
DS 450 X mx		271.8 mm (10.7 in)	
Rear	Type	Rigid swing arm	
	Shock absorbers	DS 450	HPG
		DS 450 X xc/ DS 450 X mx	HPG (fully adjustable)
	Travel	DS 450/ DS 450 X xc	267 mm (10.5 in) 267 mm (10.5 in)
DS 450 X mx		282 mm (11.1 in)	

<b>MODEL</b>		<b>DS 450/DS 450 X XC/ DS 450 X MX</b>	
<b>TIRES</b>			
Pressure (up to 100 kg (220 lb))	Front	DS 450/ DS 450 X xc	48.3 kPa (7 PSI) maximum 34.5 kPa (5 PSI) minimum
		DS 450 X mx	68.9 kPa (10 PSI) maximum 55.2 kPa (8 PSI) minimum
	Rear	DS 450/ DS 450 X xc	48 kPa (7 PSI) maximum 34.5 kPa (5 PSI) minimum
		DS 450 X mx	62.1 kPa (9 PSI) maximum 48.3 kPa (7 PSI) minimum
Size	Front	DS 450/ DS 450 X xc	21 x 7 x 10
		DS 450 X mx	20 x 6 x 10
	Rear	DS 450/ DS 450 X xc	20 x 10 x 9
		DS 450 X mx	18 x 10 x 8
<b>WHEELS</b>			
Size	Front	DS 450	10 x 5.5
		DS 450 X xc	10 X 5
		DS 450 X mx	10 X 5
	Rear	DS 450	9 x 8.5
		DS 450 X xc	9 x 8
		DS 450 X mx	8 x 8
Wheel nuts torque		52 N•m (38 lbf•ft)	
<b>BRAKES</b>			
Front		Hydraulic, 2 discs	
Rear		Hydraulic, single disc	
Parking device		RH brake lever includes a parking brake on front wheels	
<b>STEERING</b>			
Toe-in (vehicle on ground and measure on the center of tire tread)		0 mm to 6.35 mm (0 in to .25 in)	
Caster (adjustable on X xc and X mx)		Factory setting: 8°	
Camber (adjustable on X mx)		Factory setting: 12°	
<b>LOADING CAPACITY</b>			
Total vehicle load allowed		100 kg (220 lb) includes operator, all other loads and added accessories	
GVWR (Gross Vehicle Weight Rating)	DS 450	281 kg (620 lb)	
	DS 450 X xc	292 kg (645 lb)	
	DS 450 X mx	283 kg (625 lb)	

MODEL		DS 450/DS 450 X XC/ DS 450 X MX	
<b>DIMENSIONS</b>			
Overall length		1.839 m (72.4 in)	
Overall width	DS 450	1.168 m (46 in)	
	DS 450 X xc/DS 450 X mx	1.17 m to 1.27 m (46 in to 50 in)	
Overall height	DS 450	1.064 m (41.9 in)	
	DS 450 X xc	1.05 m (41.5 in)	
	DS 450 X mx	1.10 m (43.3 in)	
Wheelbase		1.27 m (50 in)	
Wheel track (measured at center of tread)	Front	DS 450	1 m (39.5 in)
		DS 450 X xc	1.04 m (40.9 in)
		DS 450 X mx	1.08 m (42.5 in)
	Rear	DS 450	909 mm (35.8 in)
		DS 450 X xc	932 mm (36.7 in)
		DS 450 X mx	997 mm (39.3 in)
Ground Clearance	Under frame	DS 450	229 mm (9 in)
		DS 450 X xc	190 mm (7.5 in)
		DS 450 X mx	180 mm (7 in)
	Rear Axle	DS 450	124 mm (4.9 in)
		DS 450 X xc	103 mm (4.1 in)
		DS 450 X mx	86 mm (3.4 in)
<b>FLUIDS</b>			
Engine oil type		XPS 4-STROKE BLEND OIL (SUMMER GRADE) (P/N 293 600 121). <b>Do not use other synthetic oil, synthetic blend oil or additive in Can-Am ATV wet clutch equipped vehicles</b>	
Coolant		Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP PREMIXED COOLANT (P/N 219 700 362) or a coolant specially designed for aluminum engines	
Fuel	Type	Premium unleaded gasoline	
	Octane	Inside North America: (91 (RON + MON)/2). Outside North America: 95 RON	
Hydraulic brake		Brake fluid, DOT 4	
<b>CAPACITIES</b>			
Fuel tank		11.5 L (3 U.S. gal.) including an approximate reserve of 2.5 L (.7 U.S. gal.)	
Engine oil		1.8 L (1.9 qt (U.S. liq.))	
Coolant		1.8 L (1.9 qt (U.S. liq.))	