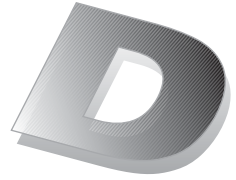




**SIDE-BY-SIDE  
VEHICLES**  
**PREDELIVERY  
Bulletin**



October 24<sup>th</sup>, 2012 Subject: **Predelivery Inspection Can-Am Maverick Series**

No. **2013-2**

**REVISION 2**  
**April 23, 2013**

►Text(s) between arrows is (are) modified element(s) to the original publication.◄

YEAR	ENGINE	MODEL	MODEL NUMBER	SERIAL NUMBER
2013	1000R	Std	6RDA, 6RDB	All
		X	6SDA, 6SDB, 6SDC	

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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 SSV 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.

## ► UPDATE SUMMARY ◀

This summary highlight updates to the Predelivery Inspection for MY2013. It does not supersede procedures detailed further in this publication.

**IMPORTANT:** Technicians should read and apply all procedures in this PDI bulletin as applicable to model.

<u>► APPLICABLE TO</u>	<u>UPDATE DESCRIPTION</u>	<u>REFERENCE</u>
<u>All Maverick</u>	<u>New shock absorber bolts (new grade and new tightening torque)</u>	<u>SHOCK ABSORBER INSTALLATION</u>
	<u>New spark plug type</u>	<u>TECHNICAL SPECIFICATIONS</u> ◀
	<u>Same oil grade is used in front differential and rear final drive.</u>	

# UNCRATING

## Crate Cover Removal

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

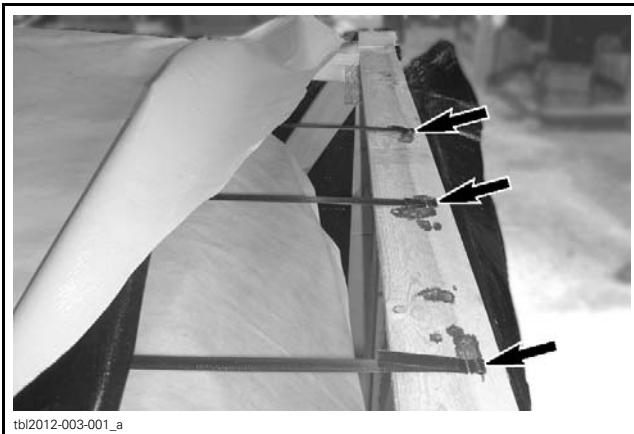
**NOTICE** Allowing the crate to drop may cause serious damages to vehicle.

2. Remove crate bottom screws using a Robertson screwdriver #2 (square tip).



3. Carefully cut both ends of tarpaulin to expose crate straps.

4. Cut straps on the top of crate on both ends.



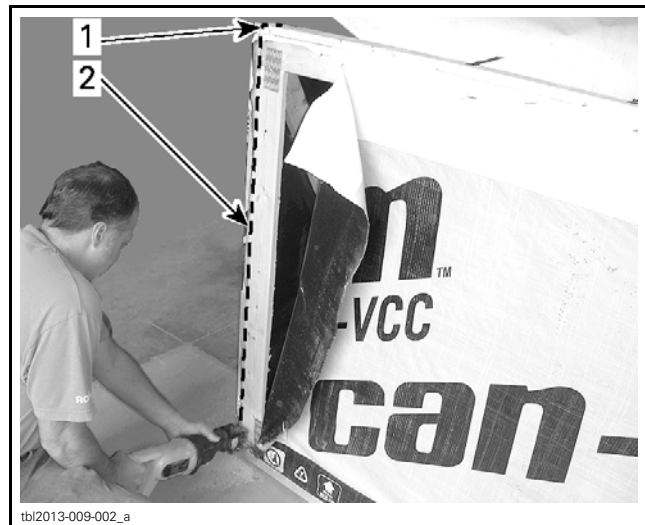
5. Cut tarpaulin at the end where the rear of vehicle is located.



1. Cut tarpaulin

6. At the same end, cut the wood piece at top corners using a jig saw.

7. Cut nails along vertical post retaining rear end of crate to the side panels.



1. Cut top corner

2. Cut nails along vertical post

8. Pull out the end cover.



tbi2013-009-003\_a

PULLING OUT REAR END COVER

**NOTICE** Removing the crate end at the rear of vehicle allows crate removal without damaging vehicle.

9. Assisted by another person, tilt the crate.



tbi2013-009-004\_a

## Vehicle Removal from Crate

1. Remove protective wrapping from the vehicle.

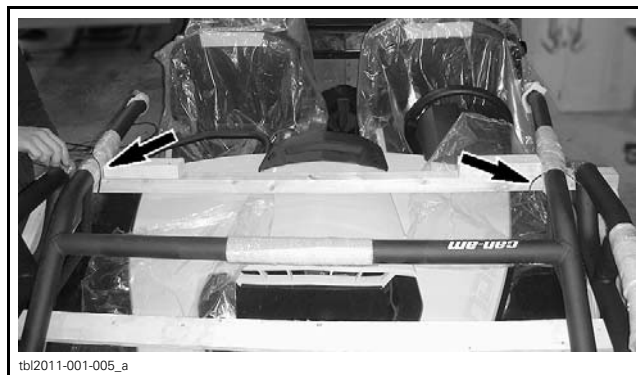


tbi2012-003-002\_a

1. Protective wrapping

2. Remove both sections of the cage from vehicle.

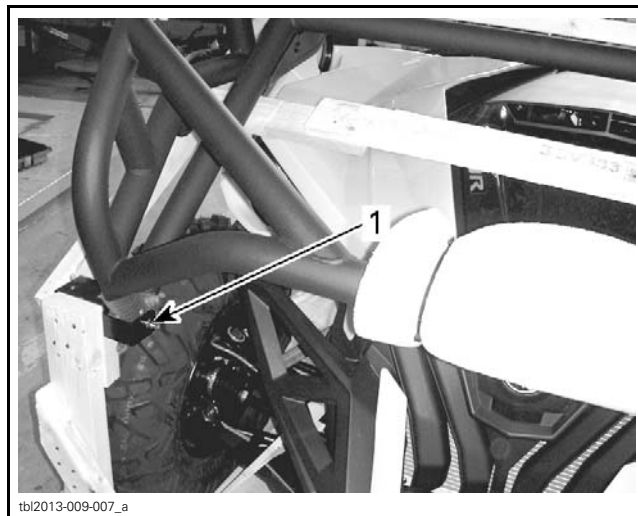
2.1 Cut locking ties securing both sections together.



tbi2011-001-005\_a

TYPICAL

2.2 Remove nuts from carriage bolts.



tbi2013-009-007\_a

RH SIDE

1. Nut

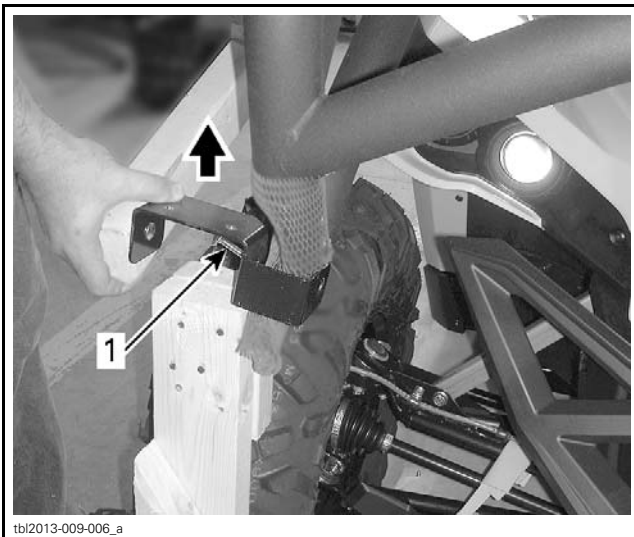
2.3 Detach retaining bracket from crate posts.



tbi2013-009-005\_a

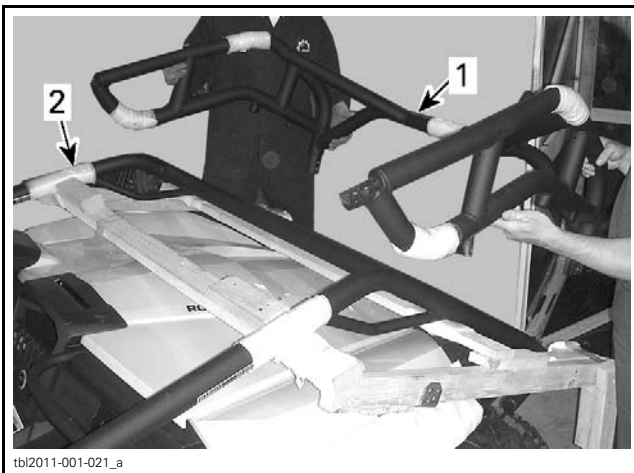
RH SIDE

2.4 Raise bracket and remove carriage bolt.



1. Carriage bolt

2.5 Remove rear and front sections of cage from vehicle.



**TYPICAL**  
1. Rear section of cage  
2. Front section of cage

3. Remove screws retaining wood frame to steel supports.

4. Move the wood frame forward and remove it.



1. Remove screws

5. Remove front side panels from vehicle.



6. Remove steel supports from the front fenders. Discard bolts and supports.



7. Cut the strap under the wood frame of seat backrests, just behind lateral net strap.



tbi2013-009-012\_a

STRAP LOCATION



tbi2013-009-013\_a

TYPICAL — REMOVING SEAT



tbi2013-009-011\_a

- 1. Lateral net strap
- 2. Cut strap

- 8. Cut locking ties retaining backrest to wood frame.
- 9. Unfasten lateral net straps.
- 10. Adjust steering wheel to its upper position.
- 11. Carefully pull out seats from vehicle (without the wood frame).



tbi2013-009-015\_a

- 12. Remove predelivery kit box from vehicle.
- 13. Cut front and rear straps retaining the vehicle to crate base.



tbi2013-009-016\_a

FRONT OF VEHICLE



tbl2013-009-017\_a

REAR OF VEHICLE

14. Install front and rear shock absorbers. See procedures further in this bulletin (*PARTS TO BE INSTALLED*).
15. Place the shift lever on N position and carefully move the vehicle rearward out of the crate base.
16. Position the shifter lever on PARK and install the required parts and accessories. Refer to *PARTS TO BE INSTALLED*.

## PARTS TO BE INSTALLED

Ensure that the following parts are provided with the vehicle.

DESCRIPTION	QTY
Predelivery kit box	1
Front shock absorber	2
Rear shock absorber	2
Cage	1
Can-Am decal (X model only)	1
Shoulder guard	2
Mirrors (CE models only)	1
Seats	2
Auxiliary foam filter kit	1

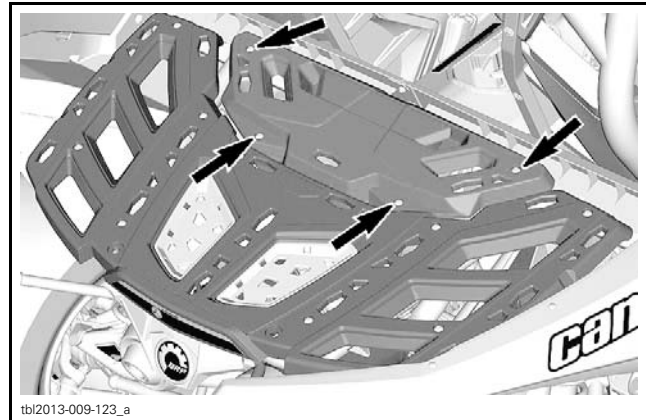
## Battery

### Battery Removal

#### **⚠ WARNING**

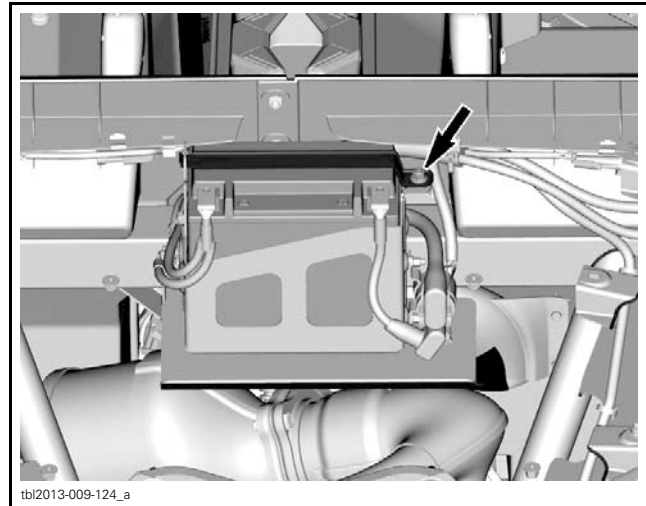
Battery BLACK (-) lead must always be disconnected first and connected last. Never charge or boost battery while installed on vehicle.

1. Remove battery cover.



tbl2013-009-123\_a

2. Remove battery holder.



tbl2013-009-124\_a

3. Remove the battery. Keep the bag with battery fasteners for installation.

### Battery Preparation

Refer to the ***CAN-AM SIDE-BY-SIDE VEHICLES BATTERIES ACTIVATION, CHARGING AND MAINTENANCE BULLETIN (2013-1)*** and to instructions notice attached to battery for proper activating, charging and maintenance procedure.



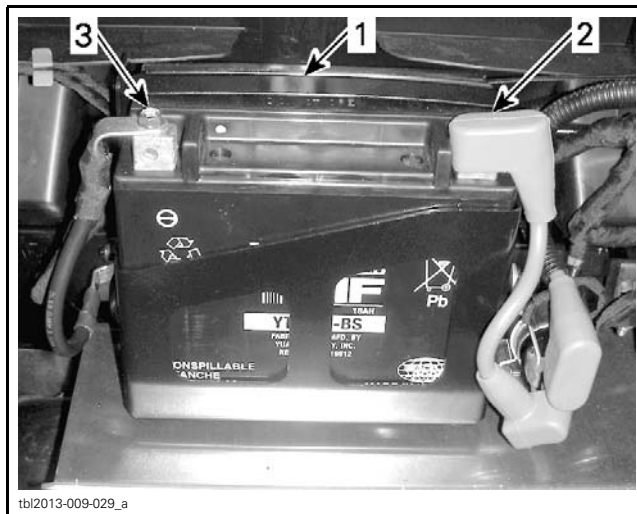
## Battery Installation

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

1. Install the battery in its rack.
2. Install battery holder and tighten the retaining nut.

PARTS	TORQUE
Battery holder nut	10 N•m (89 lbf•in)

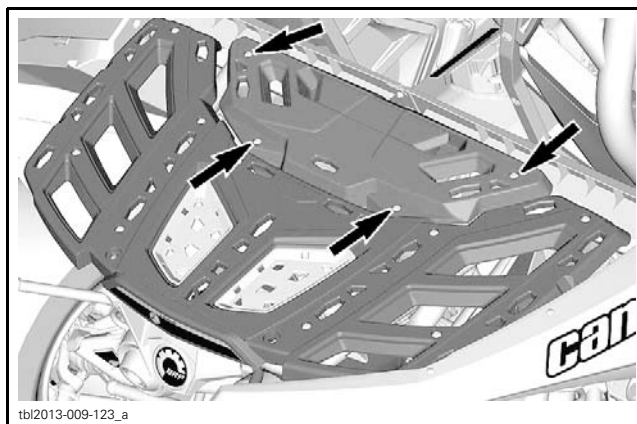
3. Connect the RED (+) lead on the side of battery as shown. Use provided screw and nut.
4. Install protective cap over terminal.
5. Connect the BLACK (-) lead on the top post.



*TYPICAL*

1. Battery holder
2. RED (+) lead and protective cap
3. BLACK (-) lead

6. Reinstall battery cover and torque fasteners to specification.



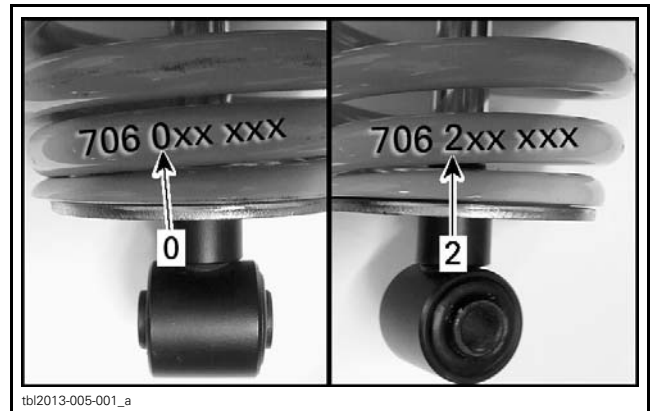
PARTS	TORQUE
Battery cover fasteners	4.5 N•m (40 lbf•in)

## Shock Absorber Installation

### Shock Absorber Identification

Make sure not to mix front and rear shock absorbers at installation.

Front and rear shock absorbers can be identified with the 4<sup>th</sup> digit of the spring part number.



*TYPICAL*

- 0 = Rear  
2 = Front

### Front Shock Absorber Installation

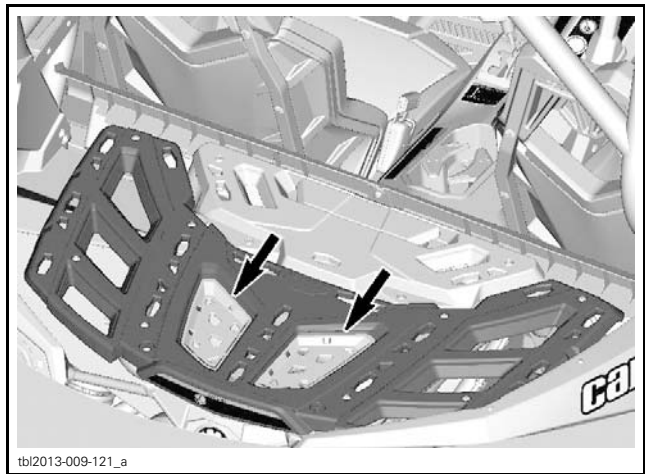
1. Safely lift front of vehicle using a hoist.



2. Remove the suspension brackets. Discard bolts and nuts.



tbl2013-009-019\_a



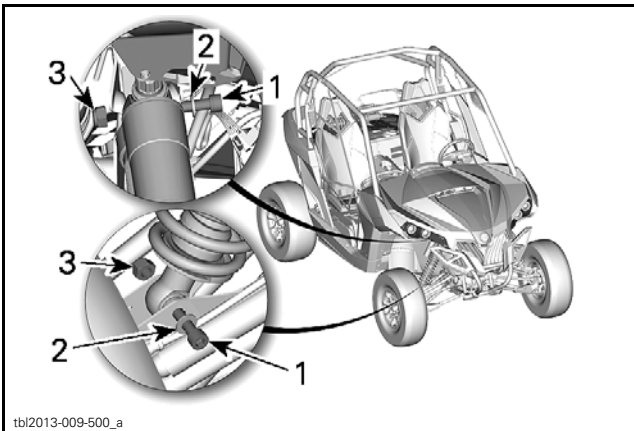
tbl2013-009-121\_a

3. Install shock absorbers. Place reservoir, rebound adjuster and bolt heads outwards.

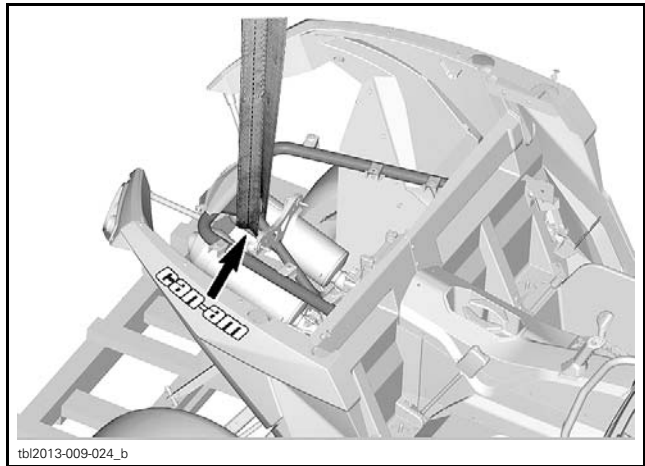
PDI KIT PARTS	QTY
M10 x 60 Allen socket bolts	2
M10 elastic flange nuts	2
M10 Flat washers	2

2. Install a lifting strap to rear frame member where shown.

**NOTICE** Do not use a chain. I might damage the cargo rack.



tbl2013-009-500\_a



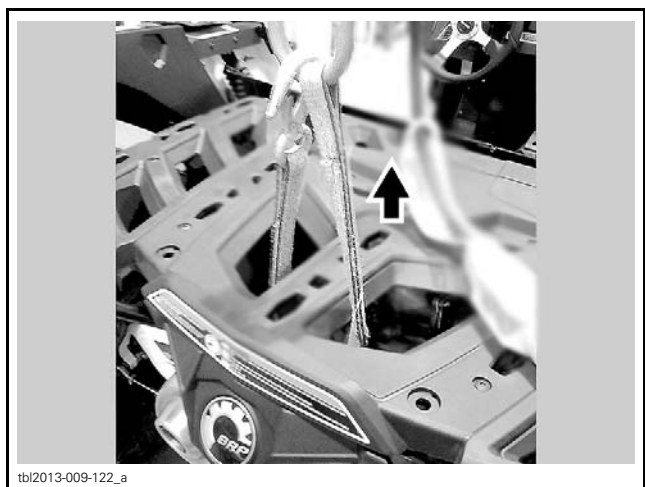
tbl2013-009-024\_b

LIFTING STRAP — CARGO RACK REMOVED FOR CLARITY PURPOSE ONLY

- TYPICAL**
1. M10 x 60 Allen socket bolt
  2. M10 Flat washer
  3. M10 elastic flange nut

3. Safely lift rear of vehicle using a hoist.

TIGHTENING TORQUE	
Shock absorber nuts	73 N•m (54 lbf•ft)



tbl2013-009-122\_a

4. Lower vehicle.

### Rear Shock Absorber Installation

1. Remove the small covers on rear cargo rack.

4. Remove the suspension brackets. Discard bolts and nuts.

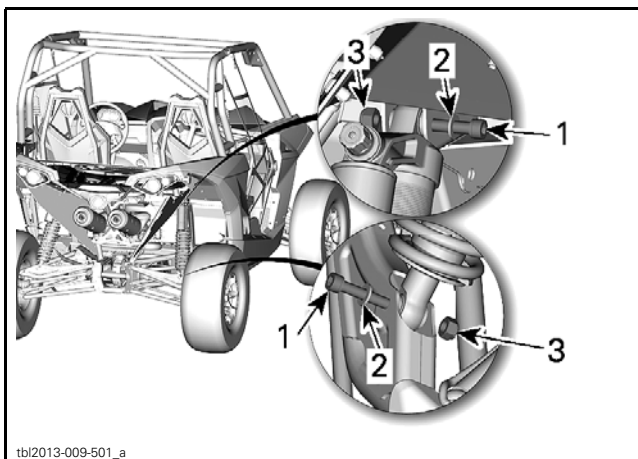


tbl2013-009-025\_a

RH SIDE SHOWN

5. Install shock absorbers. Place reservoir, rebound adjuster and bolt heads outwards.

PDI KIT PARTS	QTY
M10 x 60 Allen socket bolts	2
M10 elastic flange nuts	2
M10 Flat washers	2



tbl2013-009-501\_a

**TYPICAL**

1. M10 x 60 Allen socket bolt
2. M10 Flat washer
3. M10 elastic flange nut

TIGHTENING TORQUE	
Shock absorber nuts	73 N•m (54 lbf•ft)

6. Lower vehicle.
7. Reinstall covers.

**Disc Cleaning**

1. Remove wheels.
2. Clean brake disc. Use the XPS BRAKES AND PARTS CLEANER (USA) (P/N 219 701 705) and a clean rag.

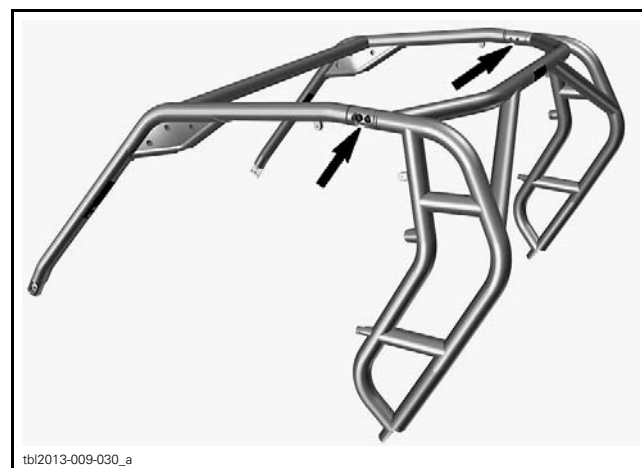
**NOTICE** A thin layer of anticorrosion product can be present on the brake disc and must be removed before using the vehicle. Not conforming to this procedure may lead to a brake chattering and the brake pads replacement would be necessary to solve the problem.

3. Reinstall wheels.
4. Tighten wheel lug nuts in a criss-cross sequence.

PARTS	TORQUE
Wheel lug nuts	100 N•m (74 lbf•ft)

**Cage Installation**

1. Loosely assemble the cage.



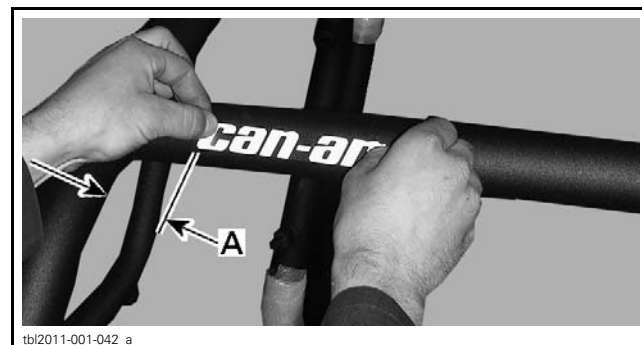
tbl2013-009-030\_a

LOOSELY ASSEMBLE

PDI KIT PARTS	QTY
M10 x 30 Torx screws	4

**NOTE: DO NOT TIGHTEN** screws until installation is completed.

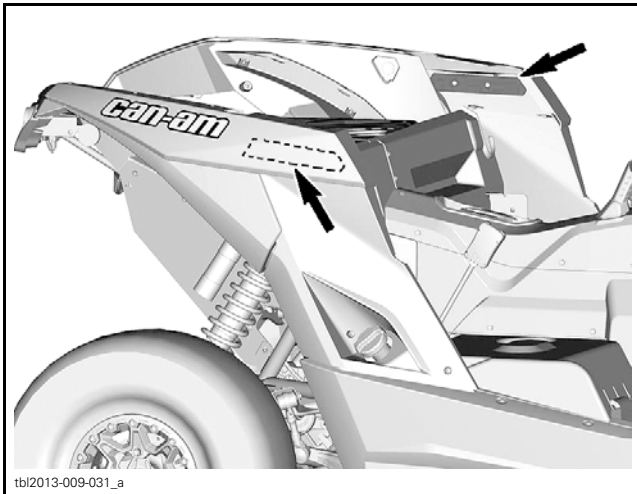
2. On **X model**, install the Can-Am decal on the front tube of cage (located in glove box).
  - 2.1 Clean the right portion of the front tube.
  - 2.2 Install the decal.



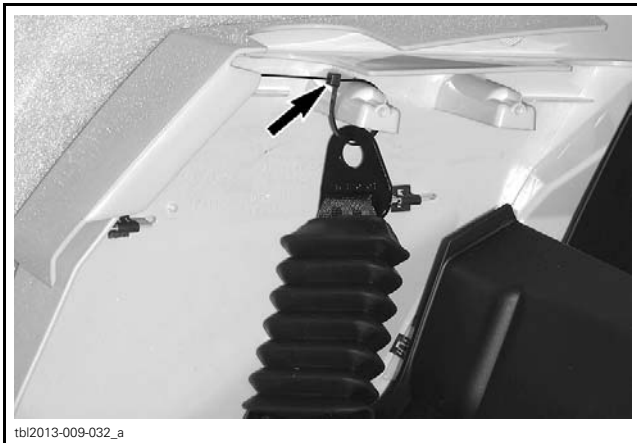
tbl2011-001-042\_a

A. 100 mm (4 in) from right tube

3. On both side of vehicle, remove support plates. Keep screws for reinstallation.



4. Cut locking ties securing the seat belts.



**INNER RH SIDE SHOWN**  
1. Seat belt attachment

5. Using a hoist, lift the cage assembly over the vehicle and carefully position it on vehicle. Insert the rear of cage first.

**NOTE:** As an alternate method, one person at each attachment point can position the cage on the vehicle.

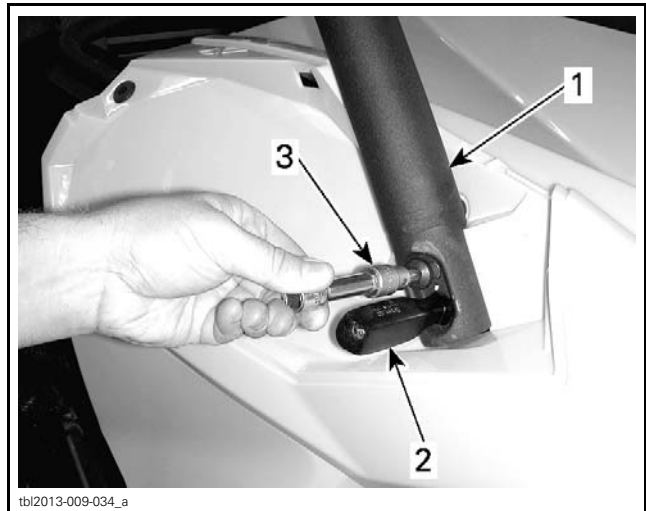
**⚠ CAUTION** To avoid injury or vehicle damages, never handle the cage alone.



6. Loosely install the cage to vehicle.

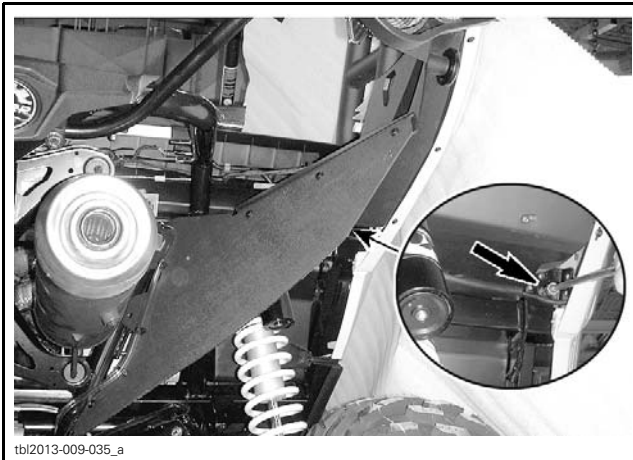
PDI KIT PARTS	QTY
M10 x 30 Torx screws	8

**NOTE:** Insert a Phillips screwdriver into cage hole and align with the frame hole, then loosely install the top screw. Thereafter, remove screwdriver and install the 2<sup>nd</sup> screw.



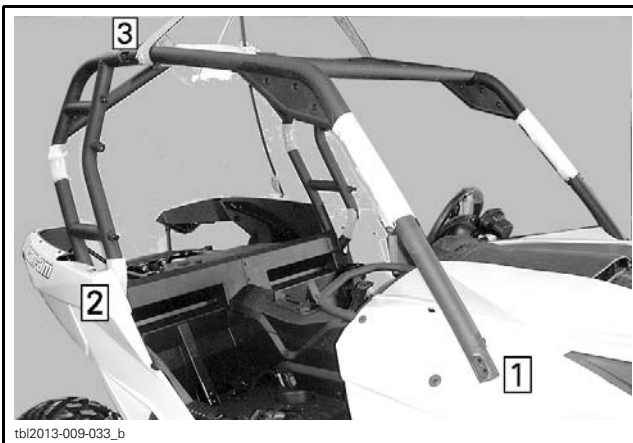
**RH FRONT CAGE ATTACHMENT POINT**  
1. Front tube  
2. Screwdriver to align holes  
3. Installing screw

**NOTE:** Install screws from the rear of vehicle, besides top of shock absorbers.



tbi2013-009-035\_a  
**RH REAR CAGE ATTACHMENT POINT**

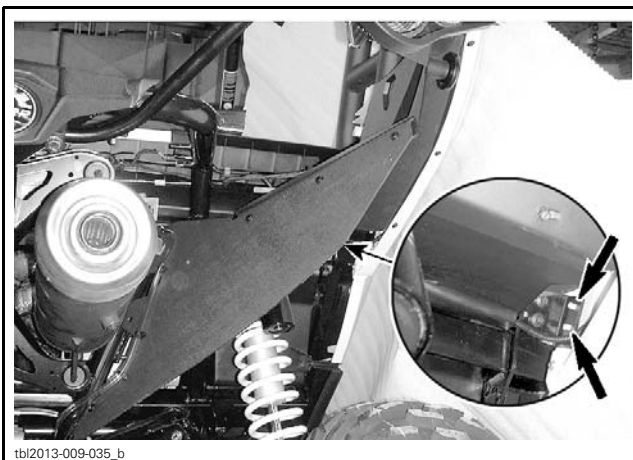
7. Tighten all cage screws in the order illustrated.



tbi2013-009-033\_b  
**FINAL TIGHTENING SEQUENCE**

PARTS	TORQUE
M10 x 30 Torx screws	60 N•m (44 lbf•ft)

8. Secure rear lateral panels from the rear of vehicle, besides screws of rear cage attachment point. Use **NEW** push nuts (from PDI kit).



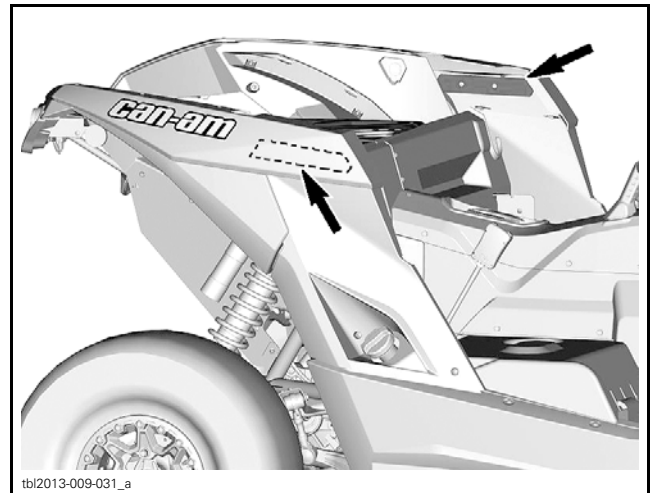
tbi2013-009-035\_b  
**BESIDES SCREWS OF REAR CAGE ATTACHMENT POINT**

9. Reinstall support plates to retain the top of the rear lateral panels.

**NOTE:** Position the "FRONT" marking on plates toward front of vehicle.



tbi2013-009-037\_a  
**"FRONT" MOLDED ON PLATE**



PARTS	TORQUE
K50 x 16 Torx screws (previously removed)	Hand torque only

10. Reinstall front side panels.



### Seat Belt Installation (All except CE Models)

1. Cut locking tie attaching seat belt.
2. Loosen seat belt.
3. Secure the seat belt to cage post.

PDI KIT PARTS	QTY
7/16-20 x 1 shoulder bolts	2
7/16-20 elastic nuts	2
Nylon flat washers	4

**NOTICE** Make sure belt is not twisted.

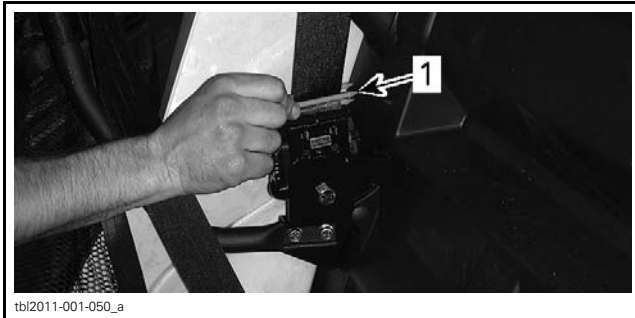


RH SIDE — VIEW FROM THE LH SIDE

1. Shoulder bolt
2. Nylon flat washer

PART	TORQUE
7/16-20 x 1 shoulder bolts	60 N•m (44 lbf•ft)

4. Remove and discard the belt lock near seat belt mechanism.



RH SIDE — VIEW FROM THE LH SIDE

1. Belt lock

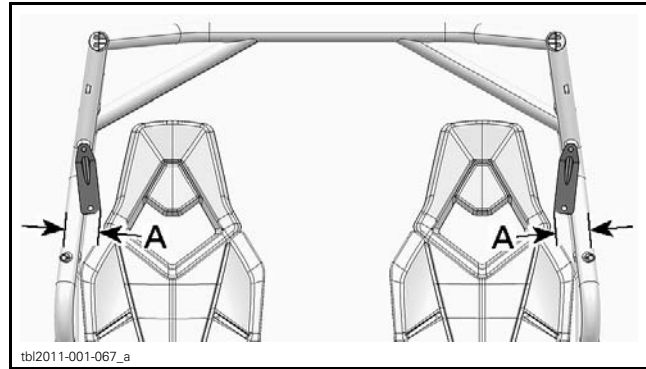
## Seat Belt Installation (CE Models)

1. Cut locking tie attaching seat belt.
2. Secure the seat belt to cage post.

PDI KIT PARTS	QTY
7/16-20 x 1 hexagonal flange bolts	2
7/16-20 elastic nuts	2

**NOTICE** Make sure belt is not twisted.

Position seat belt bracket as per the following illustration.



A. Approximately 90 mm (3-17/32 in)

PART	TORQUE
7/16-20 x 1 hexagonal flange bolts	60 N•m (44 lbf•ft)

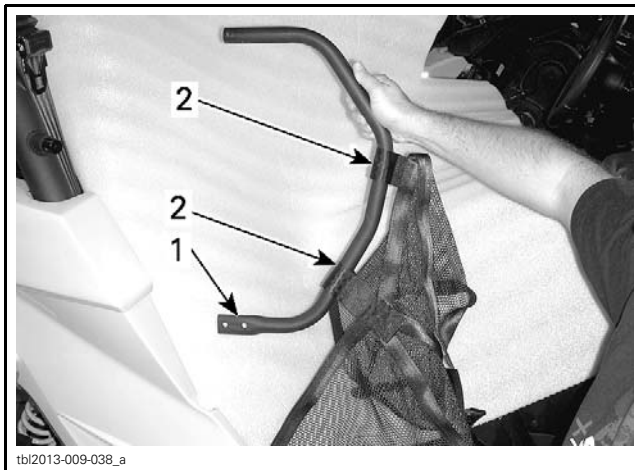
3. Remove and discard the elastic band retaining drive belt.



1. Remove and discard this elastic

## Shoulder Guard installation

1. Cut locking ties retaining the net.
2. Slide shoulder guard into lateral net hoops. Position guard flat end as shown.



tbi2013-009-038\_a

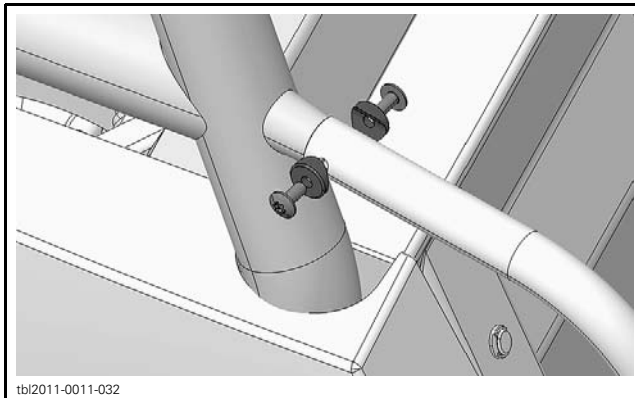
**RH SIDE SHOWN**

1. Flat end
2. Net hoops

3. Install shoulder guard to frame.

3.1 Secure the top of the shoulder guard.

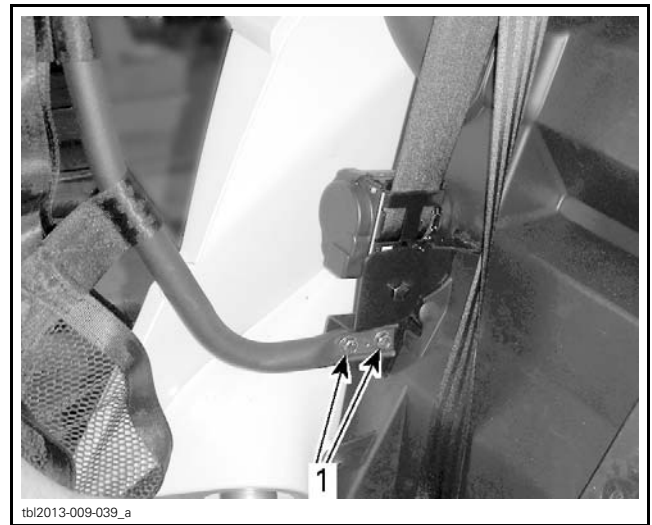
PDI KIT PARTS	QTY
M6 x 14 Torx screws	2
Support washers	2



tbi2011-0011-032

3.2 Secure the bottom of the shoulder guard to seat belt mechanism bracket.

PDI KIT PARTS	QTY
M8 x 20 hexagonal flange bolts	2
M8 elastic flange nuts	2



tbi2013-009-039\_a

1. Screw heads this side

## Lateral Net Installation

1. Buckle the lateral net.

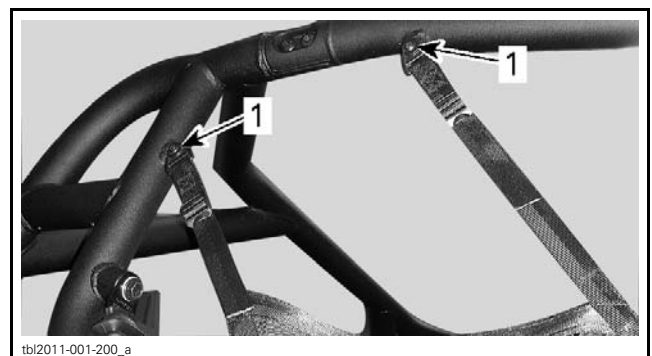


tbi2011-001-051

**TYPICAL**

2. Attach the top of lateral net to the cage.

PDI KIT PARTS	QTY
M5 x 14 Torx screws	4



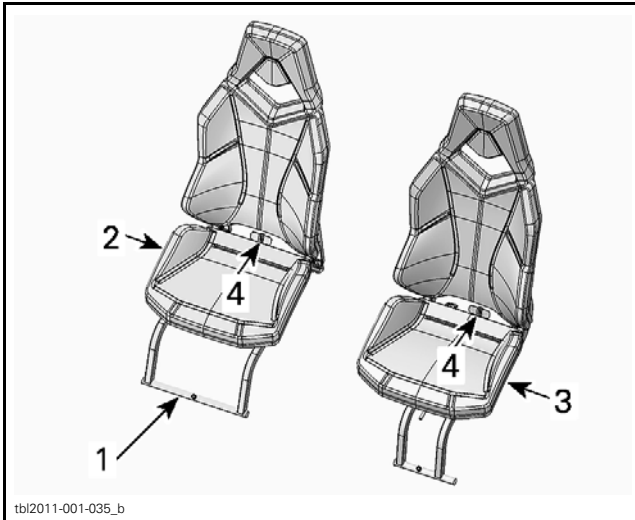
tbi2011-001-200\_a

1. M5 x 14 Torx screws

3. Adjust the length of the lateral net straps.

4. Buckle off the lateral net.

## Seats



### TYPICAL

1. Largest frame base
2. Driver's seat
3. Passenger's seat (largest frame base)
4. Latch to release the seat

**NOTE:** Prior to installing passenger's seat, check the engine oil level. Refer to *ENGINE OIL LEVEL VERIFICATION* in this bulletin.

1. Insert the seat in the cockpit.
2. Install the seat support into retaining bracket.
3. Push down the backrest to latch the seat.

### Seat Latch Adjustment

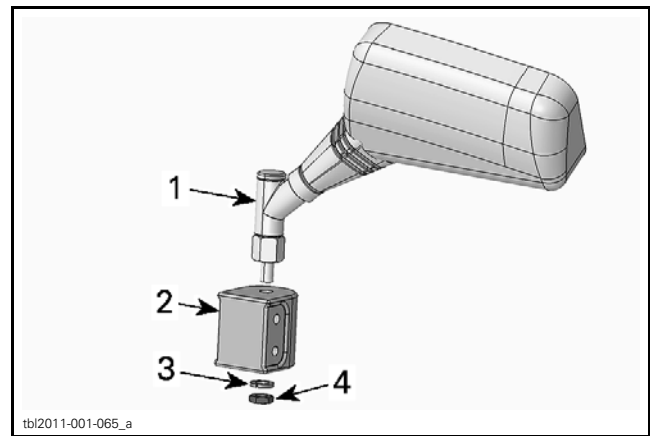
If the seat is hard to lock, the seat latch pin must be readjusted.

Loosen retaining screws and reposition the seat latch pin.



## LH Mirrors (CE Models Only)

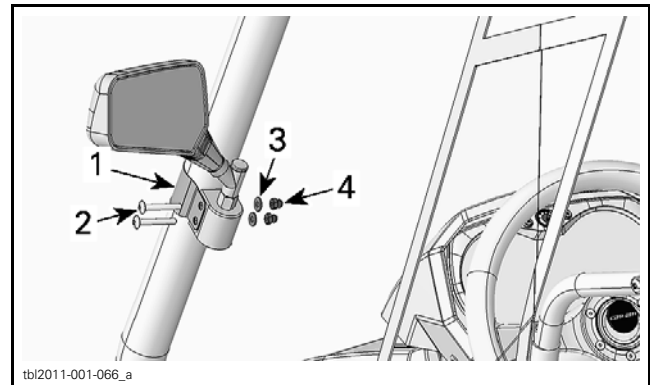
1. Assemble the mirror on its adaptor.
  - 1.1 Insert threaded rod of mirror into adaptor hole.
  - 1.2 Secure mirror using M8 lock washer and M8 nut. Do not torque yet.



1. LH mirror
2. Adaptor
3. M8 lock washer
4. M8 nut

2. Install the mirror on cage post.

- 2.1 Install the U bracket around the LH cage post.
- 2.2 Install the mirror between U bracket ends.
- 2.3 Secure them using M6 x 45 Torx screws, M6 flat washers and M6 cap nuts. Do not torque yet.



1. U bracket
2. M6 x 45 Torx screw
3. M6 flat washer
4. M6 cap nut

3. Position mirror as per owner preference and tighten all nuts.

PART	TORQUE
Mirror nut	24.5 N•m (18 lbf•ft)

PART	TORQUE
M6 cap nut	10 N•m (89 lbf•in)

## Auxiliary Foam Filter Kit

If vehicle is used in dusty and muddy conditions, it is strongly recommended to install the foam filter kit in addition to the air filter. The kit is located in glove box. For the installation, refer to the instruction sheet supplied with the kit.



## Accessories Installation

1. Install accessories (if any) as per their installation instructions (included in each kit).
2. Install any other equipment required by law (if any).

## 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 some of them. If refill is needed, use the provided procedure.

### Fuel

1. 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.
- Never fill a fuel container in the vehicle cargo box or on-board vehicle as electrical static discharge may ignite fuel.

### Recommended Fuel

Use premium unleaded gasoline, available from most service stations or oxygenated fuel containing a maximum total of 10% of ethanol or methanol. The gasoline used must have the following recommended minimum octane rating.

MINIMUM OCTANE RATING	
Inside North America	91 (R + M)/2
Outside North America	95 RON

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

### Engine Oil

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

### Recommended Engine Oil

RECOMMENDED OIL	
SEASON	TYPE
Summer	XPS 4-STROKE SYNTH. BLEND OIL (SUMMER) (P/N 293 600 121)
Winter	XPS 4-STROKE SYNTHETIC OIL (ALL CLIMATE) (P/N 293 600 112)

NOTE: The XPS oil is specially formulated to meet the lubrication requirements of this engine. BRP strongly recommends the use of its XPS 4-stroke oil.

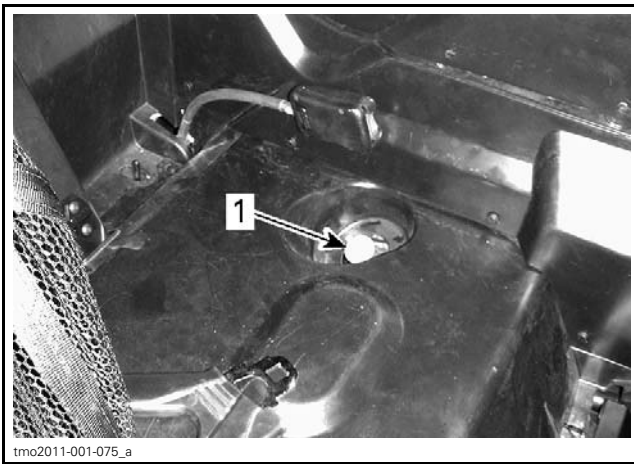
**NOTICE** Damages caused by the use of oil not suitable for this engine will not be covered by the BRP limited warranty.

If XPS oil is not available, use 4-stroke SAE 5W 40 engine oil that meets or exceeds the requirements for API service classification SM, SL or SJ. Always check the API service label certification on the oil container it must contain at least one of the above standards.

### Engine Oil Level Verification

NOTE: Dipstick is located under passenger's seat.

1. Unscrew dipstick then remove it and wipe clean.



UNDER PASSENGER'S SEAT  
1. Dipstick

2. Reinstall dipstick, screw in it completely.
3. Remove and check oil level. It should be near or equal to the upper mark.



TYPICAL  
1. MIN  
2. MAX  
3. Operating range

To add oil, remove the dipstick. Place a funnel into the dipstick tube.

Add a small amount of recommended oil and recheck oil level.

Repeat the above procedures until oil level reaches the dipstick upper mark.

**NOTE: Do not overfill. Wipe off any spillage.**  
Properly tighten dipstick.

## Engine Coolant

### Recommended Engine Coolant

COOLANT HEADER	
BRP recommended product	BRP PREMIXED COOLANT (P/N 219 700 362)
Alternative if not available	Distilled water and antifreeze solution (50% distilled water, 50% antifreeze)

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

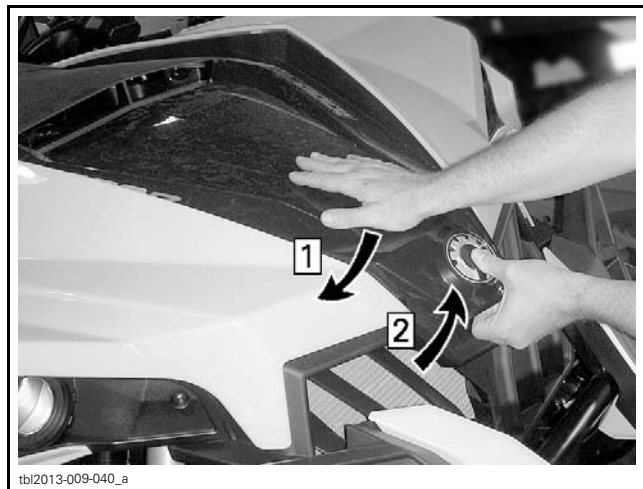
### Engine Coolant Level Verification

**⚠ WARNING**

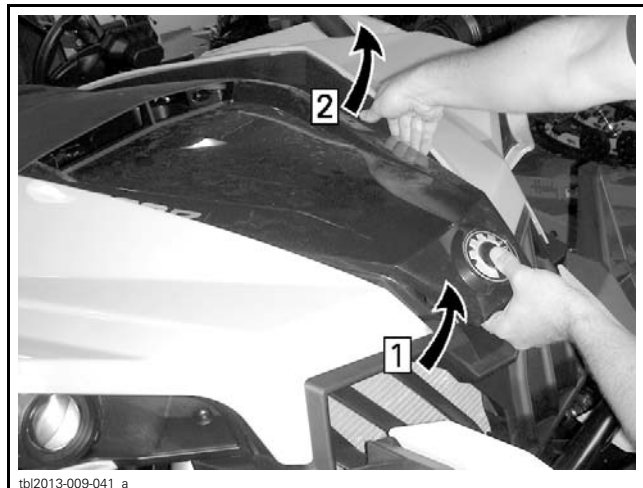
Check coolant level with engine cold.

Place vehicle on a level surface.  
Unlatch service cover as follows.

**NOTICE** Failure to follow the described procedure for opening the service cover may lead to cover damage.



Step 1: Push down service cover and HOLD  
Step 2: Lift the front part of service cover



Step 1: Keep on lifting the front part of service cover  
Step 2: Gently release the cover post from its grommet then release the post on the other side



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**FULLY LIFT COVER**

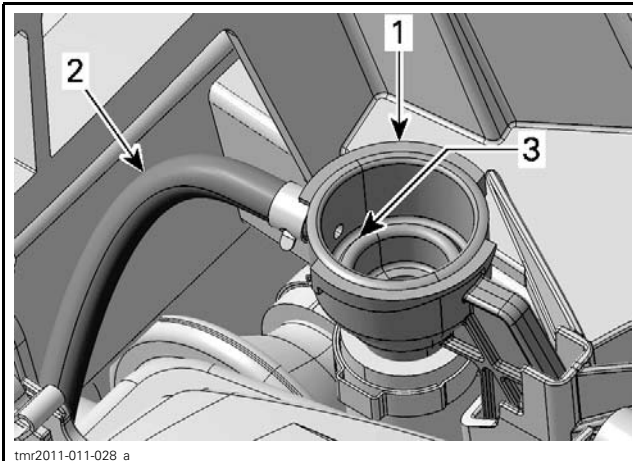
Remove radiator pressure cap.



tmo2011-001-313\_a

1. Radiator pressure cap

Ensure cooling system is full up to the pressure cap seat.



tmr2011-011-028\_a

- 1. Cooling system refill adapter
- 2. Expansion tank hose
- 3. Coolant system full level (pressure cap seat)

Add coolant in system if necessary.

Reinstall radiator pressure cap.

Check coolant level in expansion tank by looking at the side of the coolant expansion tank.



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Coolant should be at the **MIN** mark when engine is **COLD**.



tbi2013-009-043\_a

**COOLANT EXPANSION TANK**

Add coolant if required.

Remove filler cap from expansion tank.

Add coolant up to **MIN** mark.

Use a funnel to avoid spillage. **Do not overfill.**

Reinstall filler cap.

Reinstall service cover.

# SET-UP

## Tires Pressure

From factory, tires air pressure could be different from the recommended air pressure. To ensure proper seating of the tire bead, inflate tires at 200 kPa (29 PSI) **THEN** set tire pressure to vehicle specification. Refer to the following table.

**NOTICE** Always check pressure when tires are cold.

**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.

NOTE: Tire pressure varies with temperature and altitude.

TIRE PRESSURE	FRONT	REAR
MINIMUM	90 kPa (13 PSI)	103 kPa (15 PSI)
MAXIMUM (USE WHEN TOTAL LOAD IS GREATER THAN 180 KG (397 LB))	110 kPa (16 PSI)	145 kPa (21 PSI)

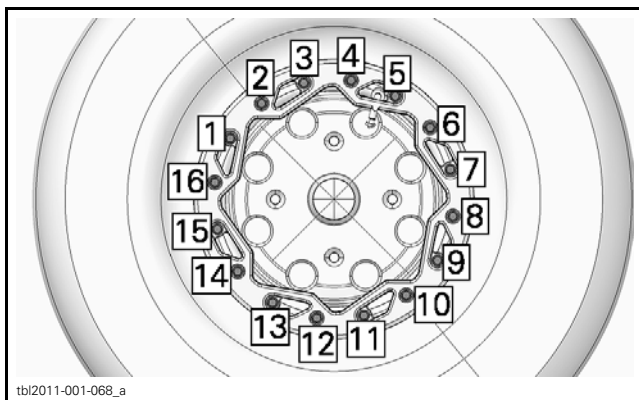
## Wheel Beadlock

### Wheel Beadlock Tightening

*X Model*

**NOTICE** Do not use an impact wrench for tightening beadlock screws in order to avoid to damage them.

Check beadlock screws tightening as per the following sequence.



tbi2011-001-068\_a

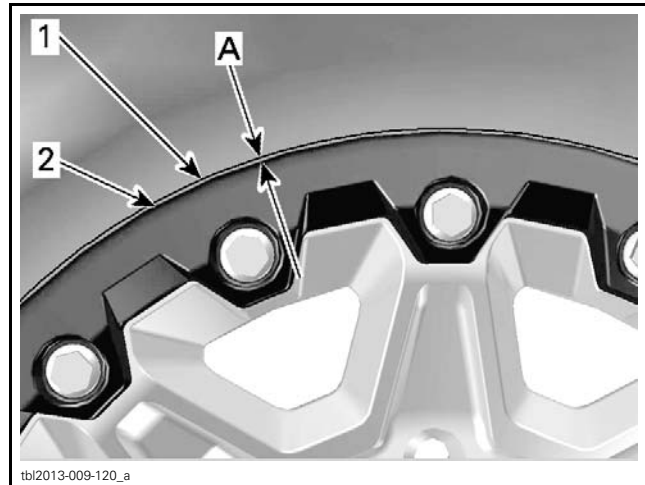
TYPICAL

PART	TORQUE
Beadlock screws	8 N•m (71 lbf•in)

### Wheel Beadlock Gap Verification

*X Model*

Verify the gap between tire and beadlock clamp ring, it should be practically equal all around the ring.



- 1. Tire
- 2. Beadlock clamp ring edge
- A. Gap equal all around bead lock clamp ring

Readjust if required. Refer to proper shop manual for complete procedure.

## Protective Materials

Ensure that all protective materials are removed from vehicle.

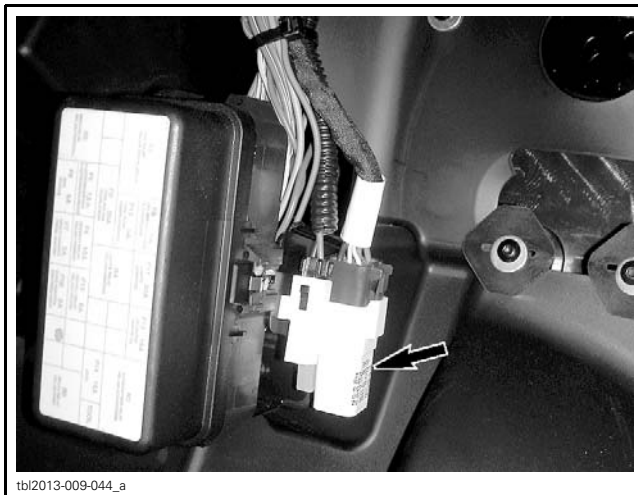
## Recall or Factory-directed Modification

Complete applicable recall or factory-directed modification.

# B.U.D.S. PROGRAMMING



## Diagnostic Connector Location

The diagnostic connector is located under the dashboard on the driver's side. It is stored in its protective cap besides the fuse box.

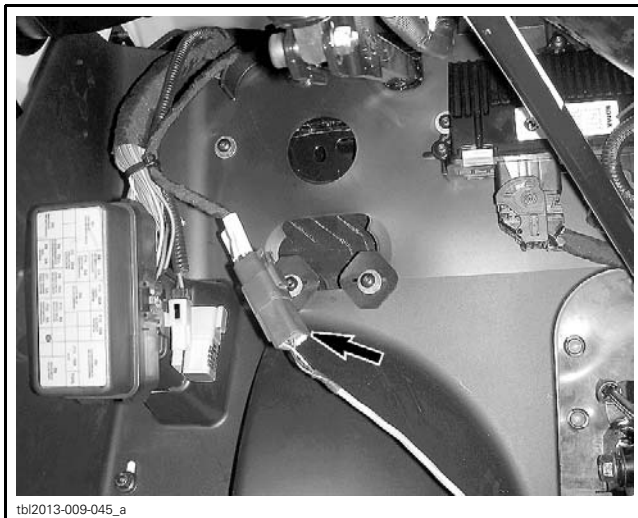


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## Connecting the PC to the Vehicle

REQUIRED TOOLS	
MPI-2 DIAGNOSTIC CABLE (P/N 710 000 851)	
MPI-2 INTERFACE CARD (P/N 529 036 018)	

1. Locate the 6-pin diagnostic connector, refer to *DIAGNOSTIC CONNECTOR LOCATION*.
2. Disconnect the 6-pin diagnostic connector from its holder (protective cap).
3. Connect one end of the MPI-2 diagnostic cable to the vehicle connector.



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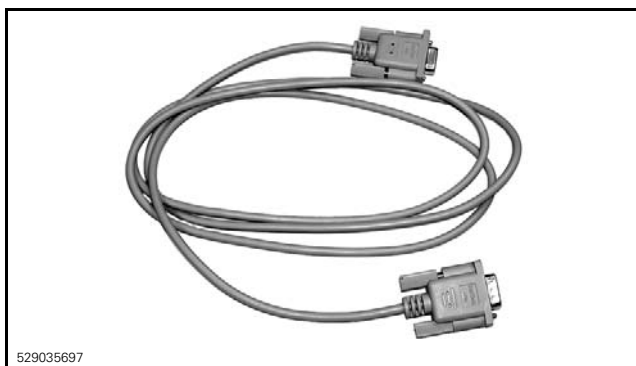
4. Connect the other end of diagnostic cable to the MPI-2 interface card.



vdd2006-001-151

DIAGNOSTIC CABLE CONNECTED TO MPI-2 INTERFACE CARD

NOTE: An optional MALE-FEMALE EXTENSION SERIAL CABLE (P/N DB9) available at electronic retail outlets can be used between diagnostic cable and MPI-2 interface. Do not exceed 7.6 m (25 ft).



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OPTIONAL MALE-FEMALE EXTENSION SERIAL CABLE

5. Connect the MPI-2 interface card to the USB port of a PC (personal computer).



mnr2006-079-200

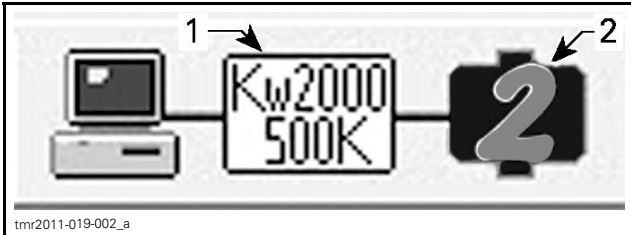
MPI-2 INTERFACE CARD CONNECTED TO USB PORT

## How to Establish Communication Using B.U.D.S. Software

NOTE: Before beginning, check if the latest version of B.U.D.S., available on BOSSWeb for this vehicle, is installed on your computer.

**IMPORTANT:** Ensure all connections have been made **before starting B.U.D.S.** to allow proper operation.

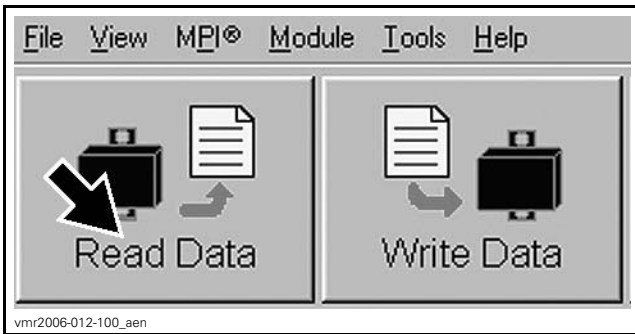
1. Turn ignition switch to ON using any of the key provided with the vehicle. **DO NOT** start the engine.
2. Start B.U.D.S. and logon.
3. Wait during detection setup.
4. Ensure the status bar shows the Kw2000 protocol and the appropriate number of modules to its right according to the vehicle model.



**TYPICAL - SUCCESSFUL CONNECTION**

1. Connection protocol
2. Number of modules read

5. Click the **Read Data** button.



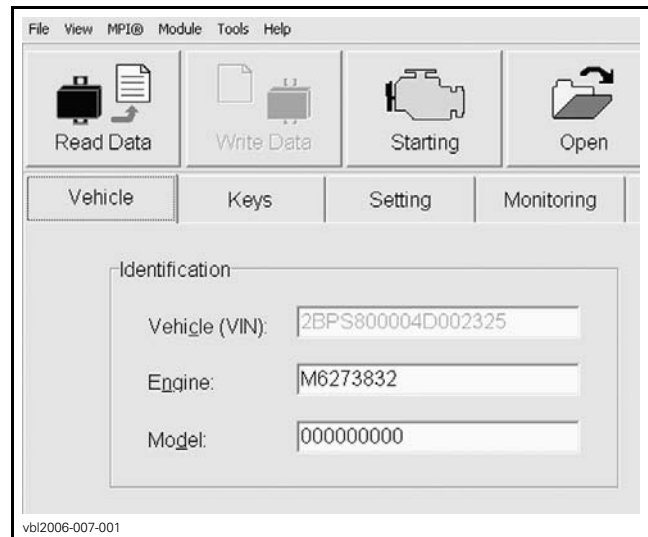
B.U.D.S. is now ready for edition, programming and for diagnostics.

### Entering Customer's Name

When starting the vehicle, the multifunction display will show the name of the customer.

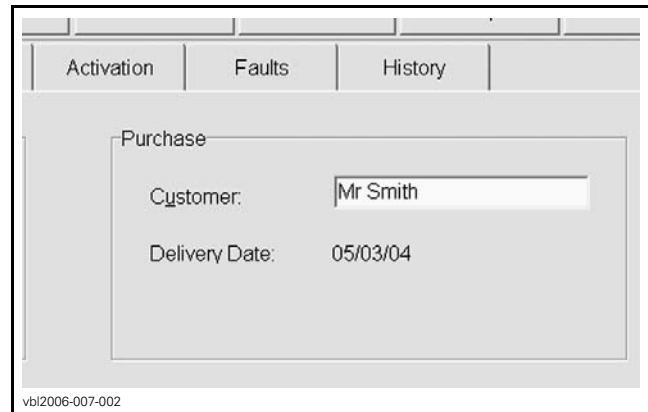
To set the customer name in the multifunction display:

1. Click on the **VEHICLE** tab to open the vehicle information page.



**VEHICLE TAB**

2. Type the name of the customer.



3. Click on **WRITE DATA** to save the information in the ECM.

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

### Resetting Trip Hours and Trip Distance

1. Ensure that the **VEHICLE** tab is selected.
2. Click on the **RESET TRIP** buttons to reset the information.

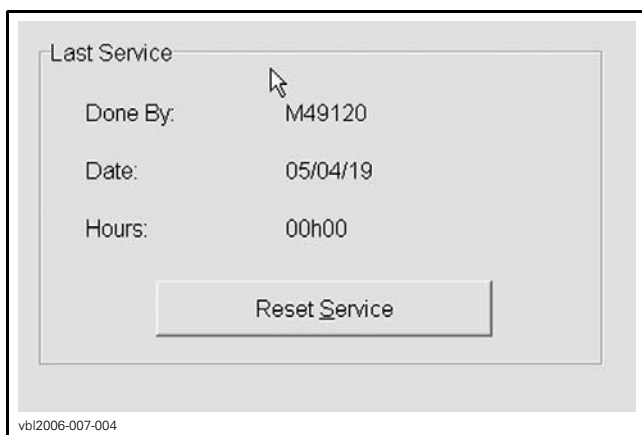


RESET TRIP BUTTONS

NOTE: It can also be done directly on the info-center, using the selector button.

### Resetting Last Service

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

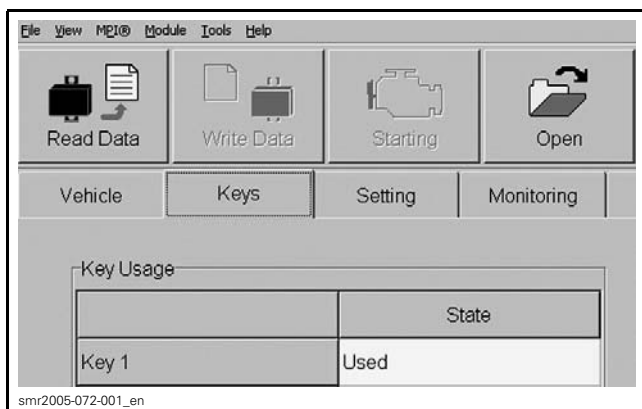


RESET SERVICE BUTTON

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

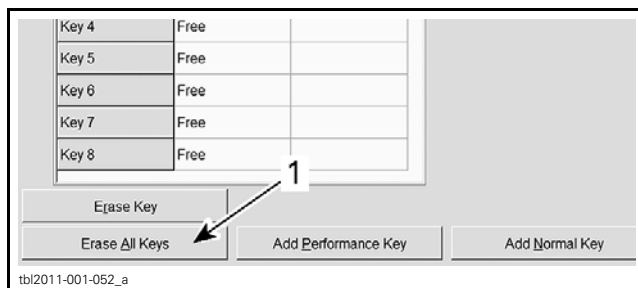
### Programing Keys

1. Click on KEYS tab.



KEYS TAB

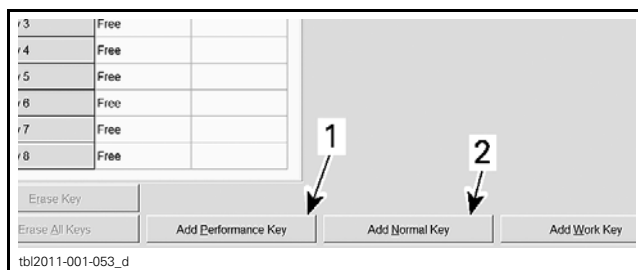
2. Click on ERASE ALL KEYS button.



1. Click here to erase all keys

3. Click "YES" to confirm the action.
4. Confirm key color in ignition switch.
5. Program the key by selecting the right type according to chart.

KEY	KEY TYPE
BLACK key	Performance key
GRAY key	Normal key



1. Add Performance Key button
2. Add Normal Key button

6. Turn ignition switch to OFF. Remove the key.
7. Install the other key.
8. Turn ignition key to ON position.
9. Program the other key by selecting the right type according to above chart.
10. Repeat steps 6 to 9 to program other keys (8 maximum).

NOTE: The Work key (ORANGE key) is optional.

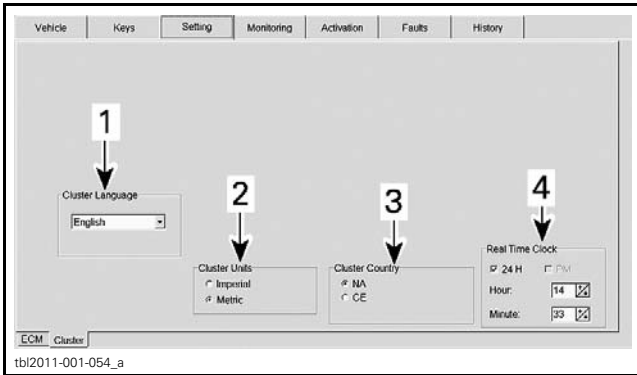
### Language and Speedometer Reading

Gauge settings can be changed to accommodate the owner preferences:

- Language (English, French, Spanish, Dutch, etc.)
- Units (Miles or Kilometers)
- Country (NA or CE)
- Time clock (12hr or 24hr)

1. Select SETTING tab in B.U.D.S.
2. Modify the selections in accordance with the owner preferences.

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



1. Language
2. Units
3. Country
4. Time clock

### Checking for Fault Codes

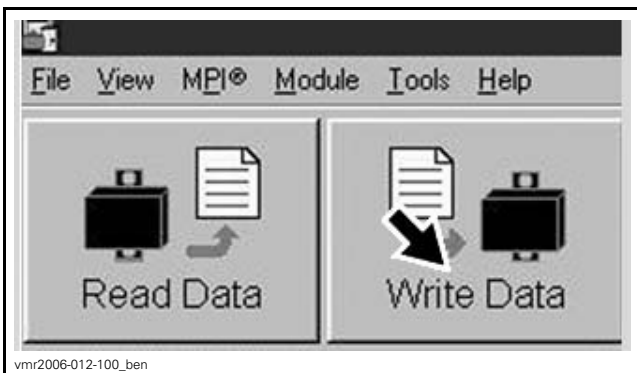
Click on FAULT tab and check if there are active faults.

- 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 ECM memory.

### Saving Changes and Exiting the B.U.D.S. Session

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



WRITE DATA BUTTON

2. Click on EXIT button to end session.
3. Disconnect all cables and hardware from vehicle.
4. Ensure to reinstall the connector into its housing.

## ADJUSTMENTS

All adjustments have already been performed at factory, it is only necessary to validate them.

### Suspension Adjustments Guideline

Vehicle handling and comfort depend upon suspension adjustments.

**⚠ WARNING**

Suspension adjustment could affect vehicle handling. Always take time to familiarize yourself with the vehicle behavior after any suspension adjustment has been made.

Choice of suspension adjustments vary with vehicle load, personal preference, riding speed and terrain condition.

The best way to set up the suspension, is to start from factory settings, then customize each adjustment one at a time.

Front and rear adjustments are interrelated. It may be necessary to readjust the rear shock absorbers after adjusting front shock absorbers for instance.

Test run the vehicle under the same conditions; trail, speed, load, etc. Change one adjustment and retest. Proceed methodically until you are satisfied.

Following are guidelines to fine-tune suspension.

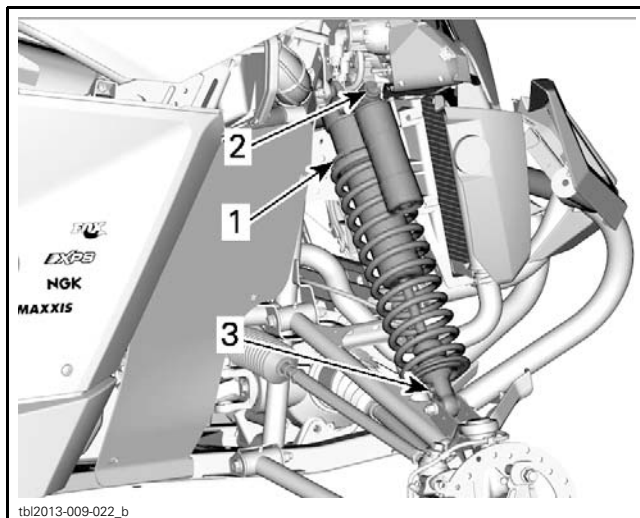
### Adjustment Location



FRONT SUSPENSION — STANDARD MODELS

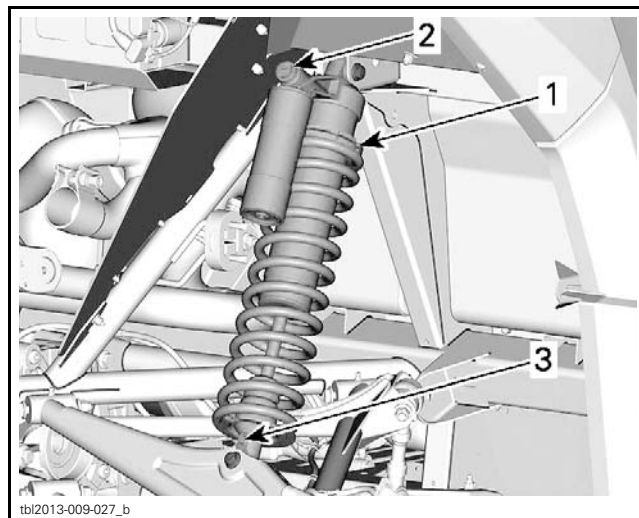
1. Preload adjustment
2. Compression damping clicker





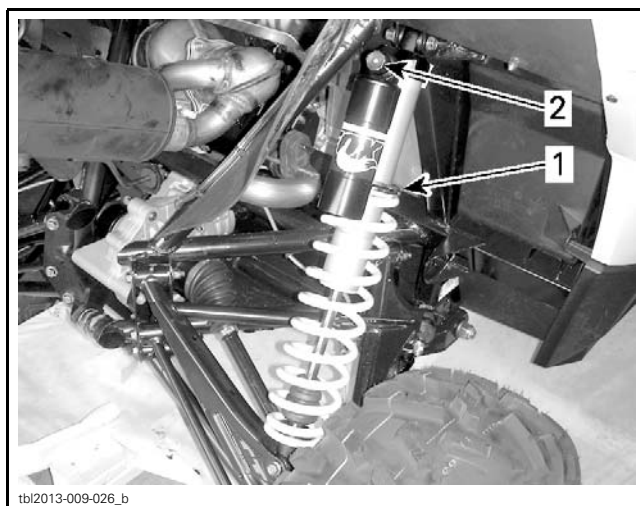
**FRONT SUSPENSION — X MODELS**

1. Preload adjustment
2. Low speed and high speed compression damping adjuster
3. Rebound adjuster



**REAR SUSPENSION — X MODELS**

1. Preload adjustment
2. Low speed and high speed compression damping adjuster
3. Rebound adjuster



**FRONT SUSPENSION — STANDARD MODELS**

1. Preload adjustment
2. Compression damping clicker

### Suspension Factory Settings

For adjustment procedures, refer to *SPRING PRELOAD ADJUSTMENT (FRONT AND REAR)* and *SHOCK DAMPING ADJUSTMENTS (FRONT AND REAR)* in this section.

To adjust compression and rebound to factory settings, proceed as follows:

1. Turn adjuster clockwise until it stops.
2. Turn adjuster counterclockwise by the specified amount, see table below.

FRONT SUSPENSION FACTORY SETTINGS		
ADJUSTMENT	MODEL	FACTORY SETTING
Spring preload	Standard	87.4 mm (3.44 in)
	X	82.8 mm (3.26 in)
Compression damping	Standard	12 positions
Compression damping (low speed)	X	9 positions
Compression damping (high speed)	X	9 positions
Rebound damping	X	12 positions

REAR SUSPENSION FACTORY SETTINGS		
ADJUSTMENT	MODEL	FACTORY SETTING
Spring preload	Standard	132 mm (5.2 in)
	X	110.5 mm (4.35 in)
Compression damping	Standard	12 positions
Compression damping (low speed)	X	12 positions
Compression damping (high speed)	X	3 positions
Rebound damping	X	16 positions

## Spring Preload Adjustment (Front and Rear)

Shorten the spring for a firmer ride and rough riding condition or when pulling a trailer.

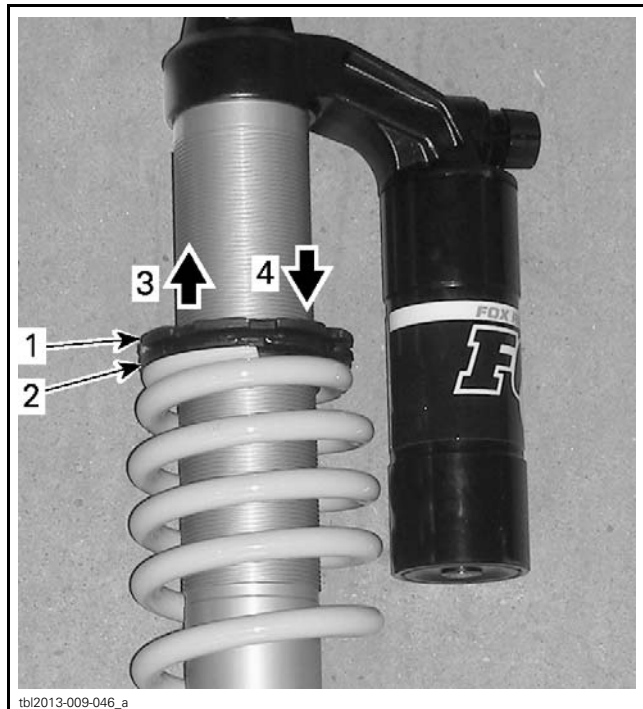
Lengthen the spring for a softer ride and smooth riding condition.

### **⚠ WARNING**

The left and right shock adjustment on front or rear suspension must always be set to the same position. Never adjust one shock only. Uneven adjustment can cause poor handling and loss of stability, which could lead to an accident.

Lift the vehicle. Spring length should be measured without load on the wheels.

Adjust by loosening lock ring and turning adjuster ring as desired. Use tool from vehicle tool kit.



#### TYPICAL

1. Loosen top lock ring
2. Turn adjuster ring as necessary
3. To soften preload
4. To stiffen preload

## Shock Damping Adjustments (Front and Rear)

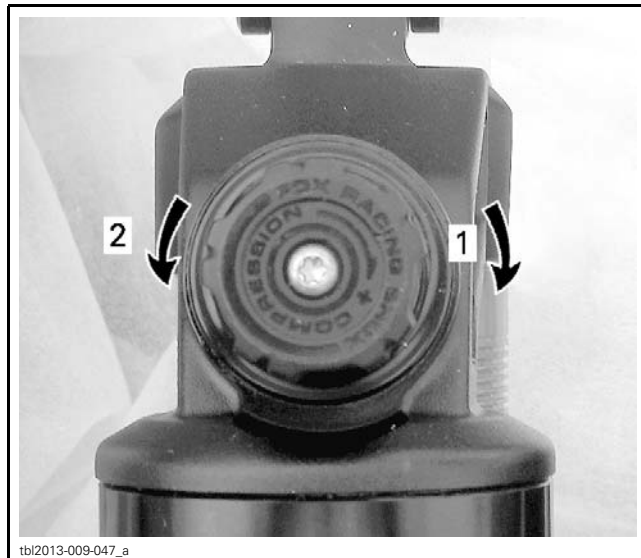
Perform adjustments **one** position (click) at a time. Test run the vehicle under the same conditions. Proceed methodically until you are satisfied.

### Compression Damping

#### *Standard Models*

Compression damping controls how the shock absorber reacts when suspension collapses.

ACTION	RESULT ON BIG BUMPS
Increasing compression damping force	Firmer compression damping
Decreasing compression damping force	Softer compression damping



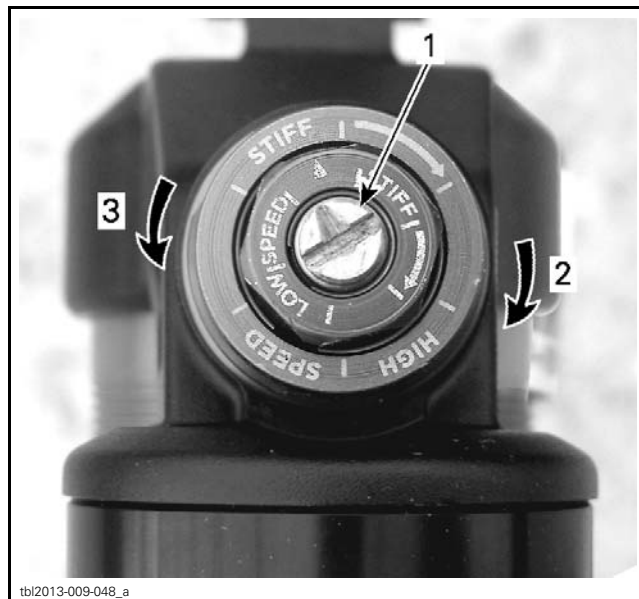
**TURN CLICKER TO ADJUST**  
 1. Increases damping (stiffer)  
 2. Decreases damping (softer)

### Low Speed Compression Damping

#### X Models

Low speed compression damping controls how the shock absorber reacts to a low suspension velocity (slow compression strokes, in most cases when riding at lower speeds).

ACTION	RESULT ON BIG BUMPS
Increasing low speed compression damping force	Firmer compression damping (slow compression)
Decreasing low speed compression damping force	Softer compression damping (slow compression)



**LOW SPEED COMPRESSION DAMPING (USE A SCREWDRIVER)**

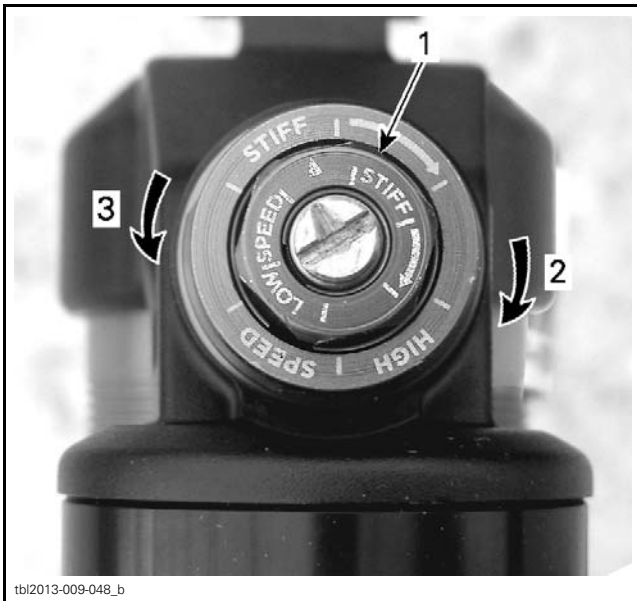
1. Low speed adjuster
2. Increases damping (stiffer)
3. Decreases damping (softer)

### High Speed Compression Damping

#### X Models

High speed compression damping controls how the shock absorber reacts to a high suspension velocity (quick compression strokes, in most cases when riding at higher speeds).

ACTION	RESULT ON SMALL BUMPS
Increasing high speed compression damping force	Firmer compression damping (fast compression)
Decreasing high speed compression damping force	Softer compression damping (fast compression)



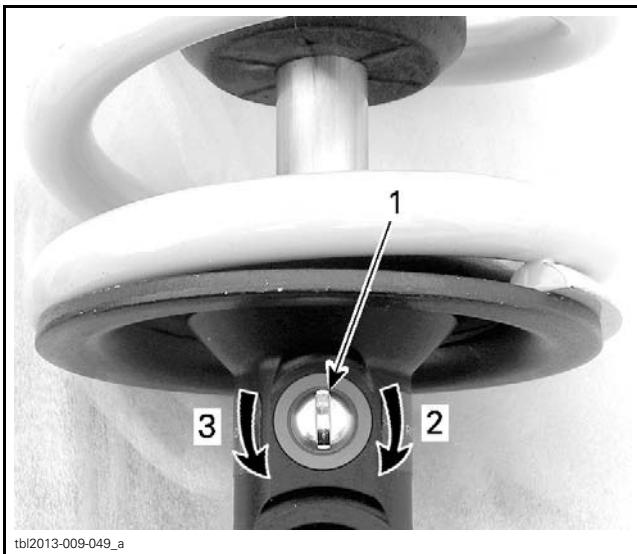
tbi2013-009-048\_b  
HIGH SPEED COMPRESSION DAMPING (USE A 17 MM WRENCH)

1. High speed adjuster
2. Increases damping (stiffer)
3. Decreases damping (softer)

## Rebound Damping

### X Models

Use a flat screwdriver to adjust it.



- tbi2013-009-049\_a
1. Rebound adjuster
  2. Increases rebound (stiffer)
  3. Decreases rebound (softer)

## ASSEMBLY INSPECTION

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

1. Chassis
2. Steering operation
3. Suspension arm ball joint cotter pins
4. Tie rod end nuts and cotter pins

## 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 ATV 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*.

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 SPECIFICATIONS ◀

### Non-CE Models

MODEL		1000R
<b>ENGINE</b>		
Engine type		ROTAX® 1010 4-stroke, Single Over Head Camshaft (SOHC), liquid cooled
Number of cylinders		2
Number of valves		8 valves (mechanical adjustment)
Bore		91 mm (3.58 in)
Stroke		75 mm (2.95 in)
Displacement		976 cm <sup>3</sup> (59.56 in <sup>3</sup> )
Exhaust system		Spark arrester approved by USDA Forest Service
Engine air filter		Synthetic paper filter
<b>LUBRICATION SYSTEM</b>		
Type		Wet sump. Replaceable oil filter
Oil filter		BRP Rotax® paper type, replaceable
Engine oil	Capacity (oil change with filter)	2 L (2.1 qt (U.S. liq.))
	Recommended	For the summer season, use XPS 4-STROKE SYNTH. BLEND OIL (SUMMER) (P/N 293 600 121). For the winter season, use XPS 4-STROKE SYNTHETIC OIL (ALL CLIMATE) (P/N 293 600 112). If not available, use a 5W 40 motor oil that meets the requirements for API service classification SM, SL or SJ
<b>COOLING SYSTEM</b>		
Coolant	Type	Ethyl glycol/water mix (50% coolant, 50% water). Use premixed coolant sold by BRP (P/N 219 700 362) or coolant specifically designed for aluminum engines
	Capacity	6.81 L (1.8 U.S. gal.)
<b>CVT TRANSMISSION</b>		
Type		CVT (Continuously Variable Transmission)
Engagement RPM		1650 RPM
<b>GEARBOX</b>		
Type		Dual range (HI-LO) with PARK, neutral and reverse
Gearbox oil	Capacity	450 ml (15 U.S. oz)
	Recommended	XPS synthetic gear oil (P/N 293 600 140) or a 75W 140 API GL-5
<b>ELECTRICAL SYSTEM</b>		
Magneto generator output		625 W @ 6000 RPM
Ignition system type		IDI (Inductive Discharge Ignition)
Ignition timing		Not adjustable

MODEL		1000R	
<b>ELECTRICAL SYSTEM (cont'd)</b>			
Spark plug	Quantity	2	
	Make and type	► NGK LMAR8C-9 ◀	
	Gap	0.6 mm (.024 in)	
Engine RPM limiter setting		8000 RPM	
Battery	Type	Dry battery type	
	Voltage	12 volts	
	Nominal rating	18 A•h	
	Power starter output	1.34 kW	
Headlights		4 x 65 W	
Taillight/Brake light		2 x 7/22 W	
Fuses	Main	40 A	
	Accessories (main)	50 A	
	ACS/DPS	50 A	
	Speedometer/tail lamp	10 A	
	Ignition/injection/speed sensor	7.5 A	
	Engine control module (ECM)	5 A	
	4WD Actuator (winch if equipped)	5 A	
	Key switch	5 A	
	Fan (fuse breaker)	25 A	
	European component	5 A	
	Head lamp	30 A	
	DC Outlet	15 A	
	Relay Driver	5 A	
	Accessories	15 A	
Fuel pump	5 A		
<b>FUEL SYSTEM</b>			
Fuel delivery	Type	Electronic fuel injection (EFI) with iTC	
Throttle body		54 mm with ETA	
Fuel pump	Type	Electric (in fuel tank)	
Idle speed		1250 ± 100 RPM (not adjustable)	
Fuel	Type	Premium unleaded gasoline (which may contain up to 10% MAX ethanol)	
	Minimum octane	Inside North America	91 (R+M)/2 or higher
		Outside North America	95 RON or higher
Fuel tank capacity		37.8 L (10 U.S. gal.)	
Fuel remaining when low fuel light turns ON		± 12 L (3.2 U.S. gal.)	
<b>DRIVE SYSTEM</b>			
Drive system type		Selectable 2WD/4WD	
Front Differential oil/rear final drive oil	Capacity	Front	500 ml (17 U.S. oz)
		Rear	350 ml (11.8 U.S. oz)
	Type	Front	► XPS Synthetic gear oil (75W 90 API GL-5) (P/N 293 600 043) or synthetic oil 75W 90
		Rear	API GL5 ◀

MODEL		1000R	
<b>DRIVE SYSTEM (cont'd)</b>			
Front drive		Visco-lokt front differential	
Front drive ratio		3.6:1	
Rear drive		Shaft driven/single differential	
Rear drive ratio		3.6:1	
CV joint grease		CV joint grease (P/N 293 550 019)	
<b>STEERING</b>			
Steering wheel		Adjustable tilt steering	
Turning radius		240 cm (94.5 in)	
Total toe (vehicle on ground)		0 ±0.2	
<b>FRONT SUSPENSION</b>			
Suspension type		Double suspension-arm with dive-control geometry	
Suspension travel		356 mm (14 in)	
Shock absorber	Qty	2	
	Type	Standard	HPG shocks with compression and preload adjustments
		X	HPG shock with remote reservoir. Dual speed compression damping and rebound damping adjustments
<b>REAR SUSPENSION</b>			
Suspension type		Torsional Trailing A-arm Independent (TTA) with external sway bar	
Suspension travel		356 mm (14 in)	
Shock absorber	Qty	2	
	Type	Standard	HPG shocks with compression and preload adjustments
		X	HPG shock with remote reservoir. Dual speed compression damping and rebound damping adjustments
<b>BRAKES</b>			
Front brake	Type	Dual 214mm cross-drilled disc brakes with hydraulic twin-piston calipers	
Rear brake	Type	Dual 214mm cross-drilled disc brake with hydraulic single-piston calipers	
Brake fluid	Capacity	250 ml (8.5 U.S. oz)	
	Type	DOT 4	
Caliper	Type	Floating	
Brake pad material	Front	Metallic	
	Rear	Metallic	
Minimum brake pad thickness		1 mm (.039 in)	
Minimum brake disc thickness	Front	4 mm (.157 in)	
	Rear	4 mm (.157 in)	
Maximum brake disc warpage		0.2 mm (.008 in)	

<b>MODEL</b>		<b>1000R</b>	
<b>TIRES</b>			
Pressure	Front	Recommended: 103 kPa (14 PSI) Minimum: 89 kPa (13 PSI)	
	Rear	Recommended: 145 kPa (21 PSI) Minimum: 110 kPa (16 PSI)	
Minimum tire thread depth		3 mm (.118 in)	
Tire size	Front	Standard	27 x 9 x 12 (in)
		X	27 x 9 x 12 (in)
	Rear	27 x 11 x 12 (in)	
<b>WHEELS</b>			
Type	Standard		Cast aluminium wheels
	X		Aluminum beadlock wheels
Rim size	Front	Standard	12 x 6 (in)
		X	12 x 6 (in)
	Rear	Standard	12 x 8 (in)
		X	12 x 7.5 (in)
Wheel nuts torque		100 N•m ± 10 N•m (74 lbf•ft ± 7 lbf•ft)	
<b>CHASSIS</b>			
Cage type		50 mm (2 in) diameter, high strength steel, ROPS-approved cage	
<b>DIMENSIONS</b>			
Overall length		301.8 cm (118.8 in)	
Overall width		162.6 cm (64 in)	
Overall height		188.5 cm (74.2 in)	
Wheelbase		214.1 cm (84.3 in)	
Wheel track	Front	140.7 cm (55.4 in)	
	Rear	135.6 cm (53.4 in)	
Ground clearance		33 cm (13 in)	
<b>LOADING CAPACITY AND WEIGHT</b>			
Dry weight		588 kg (1,296 lb)	
Weight distribution (front/rear)		44/56	
Total cargo rack capacity		91 kg (200 lb)	
Total vehicle load allowed (including driver, passenger, all other loads and added accessories)		286 kg (630 lb)	
Gross vehicle weight rating		929.7 kg (2,050 lb)	



*CE Models*

MODEL		1000R
<b>ENGINE</b>		
Engine type		ROTAX® 1010 4-stroke, Single Over Head Camshaft (SOHC), liquid cooled
Number of cylinders		2
Number of valves		8 valves (mechanical adjustment)
Bore		91 mm (3.58 in)
Stroke		75 mm (2.95 in)
Displacement		976 cm <sup>3</sup> (59.56 in <sup>3</sup> )
Exhaust system		Spark arrester approved by USDA Forest Service
Engine air filter		Synthetic paper filter
<b>LUBRICATION SYSTEM</b>		
Type		Wet sump. Replaceable oil filter
Oil filter		BRP Rotax® paper type, replaceable
Engine oil	Capacity (oil change with filter)	2 L (2.1 qt (U.S. liq.))
	Recommended	For the summer season, use XPS 4-STROKE SYNTH. BLEND OIL (SUMMER) (P/N 293 600 121). For the winter season, use XPS 4-STROKE SYNTHETIC OIL (ALL CLIMATE) (P/N 293 600 112). If not not available, use a 5W 40 motor oil that meets the requirements for API service classification SM, SL or SJ
<b>COOLING SYSTEM</b>		
Coolant	Type	Ethyl glycol/water mix (50% coolant, 50% water). Use premixed coolant sold by BRP (P/N 219 700 362) or coolant specifically designed for aluminum engines
	Capacity	6.81 L (1.8 U.S. gal.)
<b>CVT TRANSMISSION</b>		
Type		CVT (Continuously Variable Transmission)
Engagement RPM		1650 RPM
<b>GEARBOX</b>		
Type		Dual range (HI-LO) with PARK, neutral and reverse
Gearbox oil	Capacity	450 ml (15 U.S. oz)
	Recommended	XPS synthetic gear oil (P/N 293 600 140) or a 75W 140 API GL-5
<b>ELECTRICAL SYSTEM</b>		
Magneto generator output		625 W @ 6000 RPM
Ignition system type		IDI (Inductive Discharge Ignition)
Ignition timing		Not adjustable

MODEL		1000R	
<b>ELECTRICAL SYSTEM (cont'd)</b>			
Spark plug	Quantity	2	
	Make and type	► NGK LMAR8C-9 ◀	
	Gap	0.6 mm (.024 in)	
Engine RPM limiter setting		8000 RPM	
Battery	Type	Dry battery type	
	Voltage	12 volts	
	Nominal rating	18 A•h	
	Power starter output	1.34 kW	
Headlights		4 x 65 W	
Taillight/Brake light		2 x 7/22 W	
Turn signal light		4 x 10 W	
License plate light		2 x 5 W	
Fuses	Main	40 A	
	Accessories (main)	50 A	
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	Speedometer/tail lamp	10 A	
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<b>FUEL SYSTEM</b>			
Fuel delivery	Type	Electronic fuel injection (EFI) with iTC	
Throttle body		54 mm with ETA	
Fuel pump	Type	Electric (in fuel tank)	
Idle speed		1250 ± 100 RPM (not adjustable)	
Fuel	Type	Premium unleaded gasoline (which may contain up to 10% MAX ethanol)	
	Minimum octane	Inside North America	91 (R+M)/2 or higher
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Fuel tank capacity		37.8 L (10 U.S. gal.)	
Fuel remaining when low fuel light turns ON		± 12 L (3.2 U.S. gal.)	
<b>DRIVE SYSTEM</b>			
Drive system type		Selectable 2WD/4WD	

MODEL		1000R	
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	Type	Front	► XPS Synthetic gear oil (75W 90 API GL-5) (P/N 293 600 043) or synthetic oil 75W 90 API GL5 ◀
		Rear	
Front drive		Visco-lokt front differential	
Front drive ratio		3.6:1	
Rear drive		Shaft driven/single differential	
Rear drive ratio		3.6:1	
CV joint grease		CV joint grease (P/N 293 550 019)	
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Steering wheel		Adjustable tilt steering	
Turning radius		240 cm (94.5 in)	
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Minimum tire thread depth		3 mm (.118 in)	
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