



SIDE-BY-SIDE VEHICLES PREDELIVERY Bulletin



July 4th, 2013

Subject: Predelivery Inspection Can-Am™
Commander™ Series

No.

2014-2

	COMMANDER			
YEAR	ENGINE	MODEL	MODEL NUMBER	SERIAL NUMBER
	800R DF X ST DF 1000 X	STD	6CEA, 6CEB, 6CEC	
2014		DPS	6TEA, 6TEB	
		XT	6DEA, 6DEB, 6DEC	
		STD	6AEA, 6AEB	All
		DPS	6PEA	All
		XT	6BEA, 6BEB, 6BED, 6BEE, 6BEF, 6BEG, 6BEH	
		XT-P	6EEA, 6EEB, 6EEC	
		LTD	6GEA, 6GEB, 6GED	

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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.

A 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*.

A 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

Crate Cover Removal

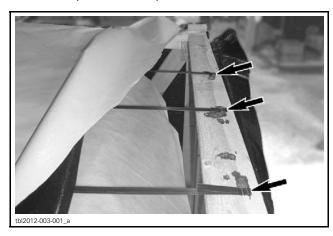
1. Carefully lay the crate on its bottom on a firm, level surface.

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

2. Remove all screws retaining crate cover to crate base. Use a Robertson screwdriver #2 (square tip).



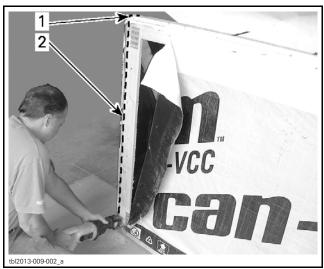
- 3. Carefully cut both ends of crate tarpaulin to locate the rear of vehicle.
- 4. Cut straps on the top of crate on both ends.



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.



- Cut top corner
 Cut nails along vertical post
- 8. Pull out the end cover.

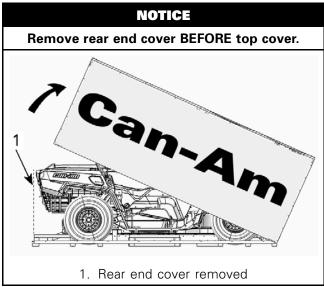


PULLING OUT REAR END COVER

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

9. Assisted by another person, tilt the crate.





Vehicle Removal from Crate (All except LTD)

1. Remove protective wrapping from the vehicle.



- 1. Protective wrapping
- 2. Remove both sections of the cage from vehicle.
 - 2.1 Cut locking ties securing the rear and the front sections of the cage to the wood frame.

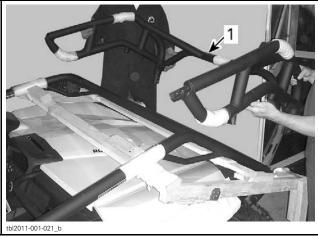


2.2 Remove screws securing the rear section of the cage to wood frame.



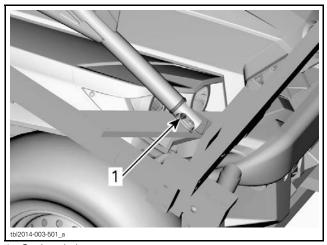


2.3 Remove rear section of cage from the wood frame.



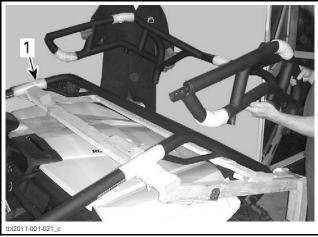
1. Rear section of cage

2.4 Remove carriage bolts securing the front section of cage to steel support.



1. Carriage bolt

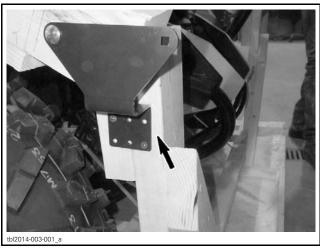
2.5 Remove front section of cage from the wood frame.



1. Front section of cage

3. Remove screws retaining wood frame to steel supports.





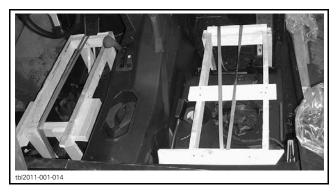
- 4. Move the wood frame forward and remove it.
- 5. Remove steel supports from the front fenders. Discard bolts and support.



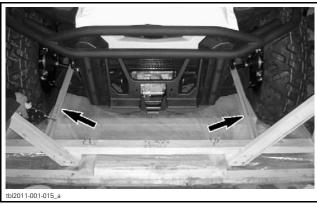
- 6. Remove seats from vehicle.
 - 6.1 Remove screw securing the top of the backrest to wood support.



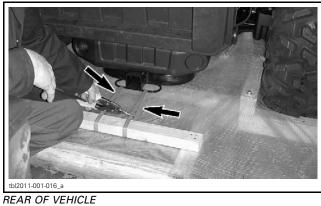
- 6.2 Lift the bottom of the seat and remove seat from vehicle.
- 7. Cut retaining straps and remove wood support.



8. Cut front and rear straps retaining the vehicle to crate base.



FRONT OF VEHICLE

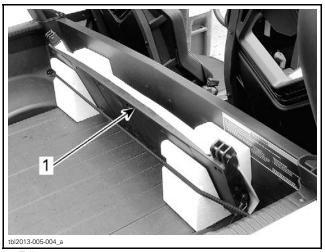


9. Remove parts from the rear cargo lower compartment.



Unlatch tail gate and discard bungee cord and packing material.

Remove tail gate from cargo box.



1. Tail gate

10. Cut the front and rear of crate base.



FRONT OF VEHICLE

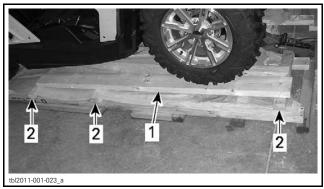


REAR OF VEHICLE

- 11. Prepare 4 pieces of wood:
 - 2 pieces of 2x6 by 1.78 m (70 in)
 - 2 pieces of 2x6 by 1.27 m (50 in)
- 12. Install the jack under a frame member, in line with a suspension arm.

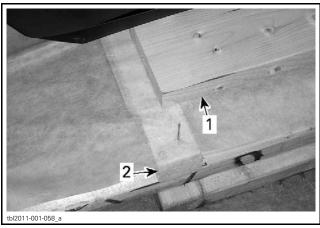


13. Lift the front of vehicle just enough to place the pieces of wood (1.78 m (70 in)) between wheel and base crate, as illustrated below.



1. 2x6 by 1.78 m (70 in) 2. Crate braces

NOTE: Position the 2x6 over crate braces. The rear of the 2x6 must be halfway on brace.

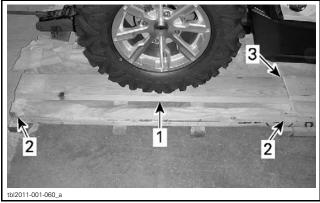


1. 2x6 2. Crate braces

- 14. Lower the front of the vehicle and repeat the procedure at the rear.
 - 14.1 Place the jack under the hitch to lift the rear of the vehicle.



14.2 Position the 2x6 on crate braces. Place both 2x6 end to end.



- 2x6 by 1.27 m (50 in) Crate braces
- Crate braces
 Pieces of wood end to end
- 15. Lower the vehicle.
- 16. Place the shift lever on N position and carefully move the vehicle forward out of the crate base.
- 17. Position the shifter lever on PARK and install the required parts and accessories. Refer to PARTS TO BE INSTALLED.

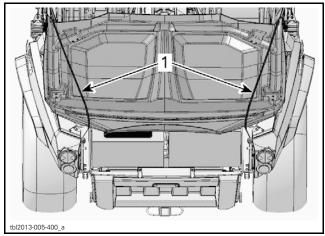
Vehicle Removal from Crate (All LTD Models)

1. Remove protective wrapping from the vehicle.



1. Protective wrapping

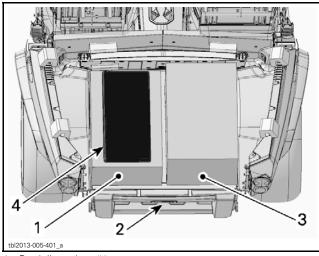
2. Remove bungees securing the roof middle section on rear cargo box.



1. Bungees

3. Remove the roof middle section, the rear wind screen and the predelivery box #1 from the cargo box.

NOTE: On CE models, also remove the predelivery box #3.



- Predelivery box #1 Predelivery box #2 Predelivery box #3 (CE models only) Rear wind screen
- 4. Remove both sections of the cage from vehicle.
 - 4.1 Cut locking ties securing the rear and the front sections of the cage to the wood frame.

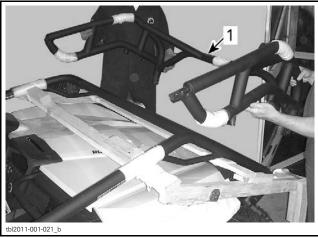


4.2 Remove screws securing the rear section of the cage to wood frame.



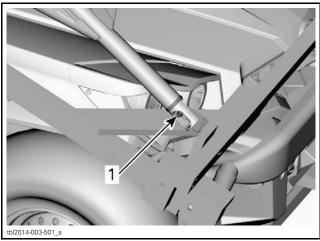


4.3 Remove rear section of cage from the wood frame.



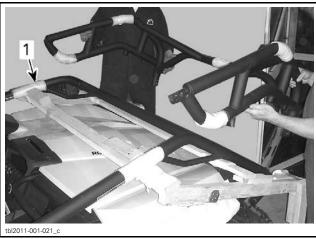
1. Rear section of cage

4.4 Remove carriage bolts securing the front section of cage to steel support.



1. Carriage bolt

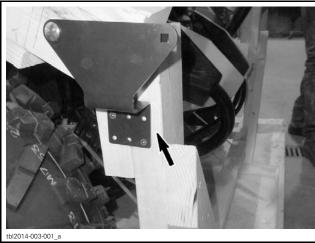
4.5 Remove front section of cage from the wood frame.



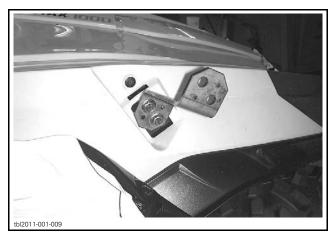
1. Front section of cage

5. Remove screws retaining wood frame to steel supports.

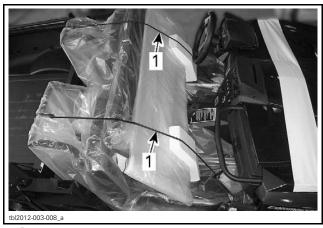




- 6. Move the wood frame forward and remove it.
- 7. Remove steel supports from the front fenders. Discard bolts and support.



8. Detach bungees retaining half windshield and sport visor to seats.

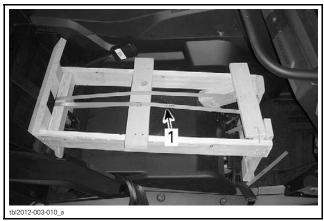


1. Bungees

- 9. Remove seats from vehicle.
 - 9.1 Cut locking ties securing the headrest to the wood support.
 - 9.2 Lift the bottom of the seat and remove seat from vehicle.

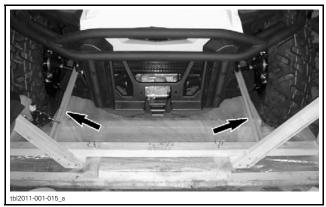


10. Cut retaining straps and remove wood supports.



TYPICAL – PASSENGER SIDE 1. Retaining strap

11. Cut front and rear straps retaining the vehicle to crate base.



FRONT OF VEHICLE



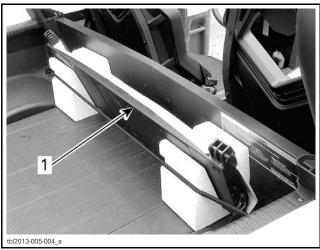
REAR OF VEHICLE

- 12. Remove parts from the rear cargo lower compartment.
 - Predelivery box #2
 - GPS.



Unlatch tail gate and discard bungee cord and packing material.

Remove tail gate from cargo box.



1. Tail gate

- 13. On CE models, remove mirrors from the glove
- 14. Cut the front and rear of crate base.



FRONT OF VEHICLE

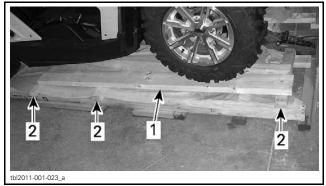


REAR OF VEHICLE

- 15. Prepare 4 pieces of wood:
 - 2 pieces of 2x6 by 1.78 m (70 in)
 - 2 pieces of 2x6 by 1.27 m (50 in)
- 16. Install the jack under a frame member, in line with a suspension arm.

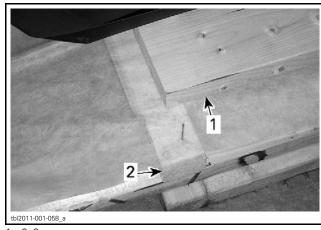


17. Lift the front of vehicle just enough to place the pieces of wood (1.78 m (70 in)) between wheel and base crate, as illustrated below.



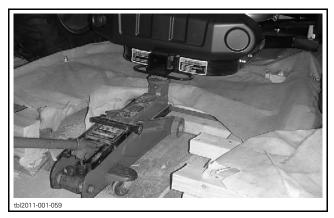
1. 2x6 by 1.78 m (70 in) 2. Crate braces

NOTE: Position the 2x6 over crate braces. The rear of the 2x6 must be halfway on brace.

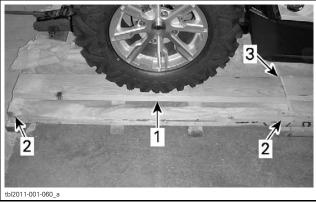


2x6

- 2x6
 Crate braces
- 18. Lower the front of the vehicle and repeat the procedure at the rear.
 - 18.1 Place the jack under the hitch to lift the rear of the vehicle.



18.2 Position the 2x6 (1.27 m (50 in)) on crate braces. Place both 2x6 end to end.



- 2x6 by 1.27 m (50 in)
- 2x6 by 1.27 m (50 in)
 Crate braces
 Pieces of wood end to end
- 19. Lower the vehicle.
- 20. Place the shift lever on N position and carefully move the vehicle forward out of the crate base.

21. 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.

ALL EXCEPT LTD		
DESCRIPTION	QTY	
Tail gate	1	
Front shock absorber kit	1	
Rear shock absorber kit	1	
Shoulder guard	2	
Predelivery kit	1	
Can-Am decal (XT-P model only)	1	
Mudguard kit (CE models only)	1	
Mirrors (CE models only)	1	

LTD MODELS			
PARTS	LOCATION	QTY	
Tail gate	In the cargo box	1	
Predelivery box #1	In the cargo box	1	
Predelivery box #2	Inside lower cargo box	1	
GPS	Inside lower cargo box	1	
Mirrors (CE models only)	Inside glove box	1	
Roof middle section	In the cargo box	1	
Rear wind screen	In the cargo box	1	
Half windshield	Inside vehicle, on seats	1	
Sport visor	Inside vehicle, on seats	1	
Rear speakers	Inside predelivery box #1	1	
Predelivery box #3	In the cargo box	1	

Battery

Battery Removal

A WARNING

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

- 1. From underneath dash, unscrew battery holder retaining nut.
- 2. Remove battery holder.



- 1. Bracket retaining nut
- 2. Battery holder
- 3. Remove the battery. Keep the bag with battery fastener for installation.

Battery Preparation

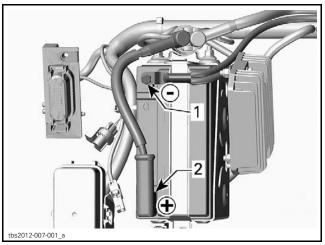
Refer to the CAN-AM SIDE-BY-SIDE VEHI-CLES BATTERIES ACTIVATION, CHARGING AND MAINTENANCE BULLETIN (2014-1) and to instructions notice attached to battery for proper activating, charging and maintenance procedure.

Battery Installation

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

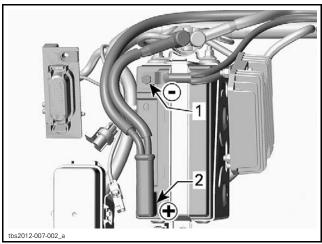
- 1. Install the battery in its rack.
- 2.

Make sure to position the negative POST upwards.



ALL EXCEPT XT AND LTD

- Negative cables (Black)
 Positive cable (Red)



XT AND LTD

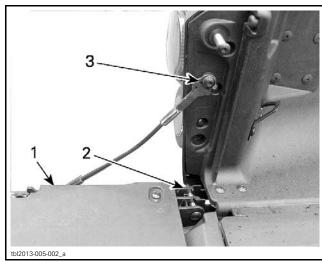
- Negative cables (Black)
 Positive cables (Red)
- 3. Install battery holder and tighten the retaining nut.

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

- 4. Connect the RED (+) lead using provided screw and nut.
- 5. Connect the BLACK (-) lead on the top post.

Tail Gate Installation

Install tail gate to cargo box. Secure tail gate to cargo box hooks.



- Tail gate
- Secure into hooks
- Secure both straps

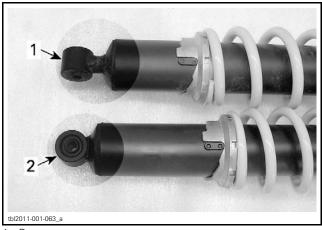
Shock Absorber Installation

Shock Absorbers Identification

When installing shock absorbers, make sure not to mix front and rear shock absorbers.

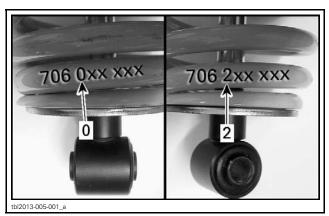
All except XT-P Models

Front and rear shock absorbers can be easily identified by comparing the lower attachment point.



1. Rear 2. Front

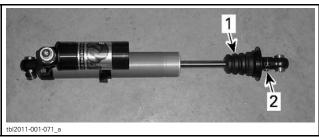
Also, the 4th digit of the spring part number indicates its mounting location.



0 = Rear 2 = Front

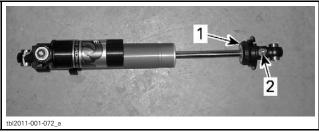
XT-P Models

Front and rear shock absorbers can be easily identified by comparing the bottom bumper and the position of the low speed compression adjuster.



FRONT - SPRING REMOVED FOR CLARITY

- Long bumper
- 2. Low speed compression adjuster on the side



REAR - SPRING REMOVED FOR CLARITY

- Short bumper
 Low speed compression adjuster on the top

LTD Models

Front and rear shock absorbers can be easily identified by comparing the length of air hoses.

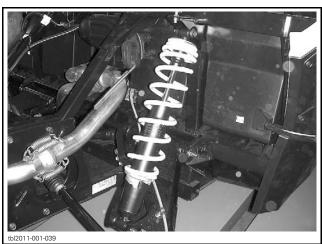
FRONT Short air hose on reservoir side **REAR**

Long air hose on the opposite side of reservoir

Rear Shock Absorber Installation

- 1. Block front wheels.
- 2. Loosen wheel lug nuts.
- 3. Open cargo box.
- 4. Place the jack under the hitch and lift the rear of vehicle.
- 5. Install jack stands to support the vehicle.
- 6. Remove wheels.
- 7. Remove the suspension bracket. Discard bolts and nuts.
- 8. Install shock absorbers.

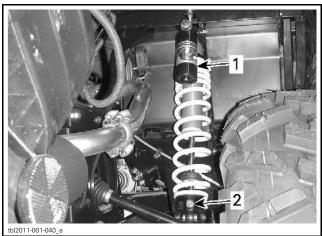
PDI KIT PARTS	QTY
M10 x 55 hexagonal flange bolts	4
M10 elastic flange nuts	4



STD AND XT MODELS

XT-P Model

Place the reservoir rearwards.

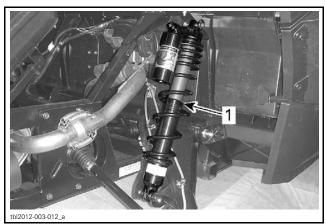


XT-P MODEL

- Reservoir facing rearward
- Low speed compression adjuster facing rearward

LTD Models

9. Install shock absorbers with the reservoir rearwards.



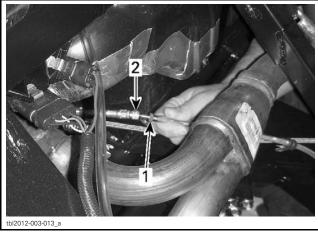
TYPICAL - RH REAR SHOCK ABSORBER

All Models

PARTS	TORQUE
Shock absorber nuts	48 N•m (35 lbf•ft)

LTD Models

10. Connect shock absorber hoses to vehicle air supply hoses.



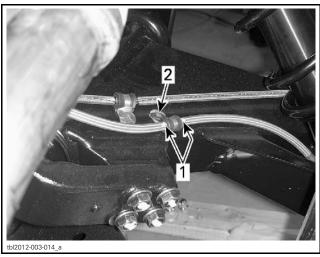
TYPICAL

- RH shock absorber hose
- 2. Vehicle air supply hose

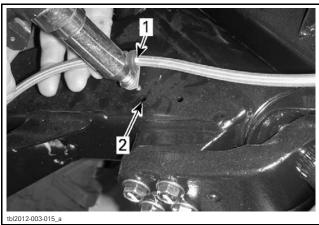
TORQUE		
Air supply hose	6 N•m (53 lbf•in)	

11. Secure shock absorber hoses to trailing arms. Ensure to position hose clamp between YEL-LOW dots.

PDI KIT PARTS	QTY
Rivets	2



RH SIDE OF VEHICLE YELLOW dots 2. Rivet from PDI kit



LH SIDE OF VEHICLE

- YELLOW dot
- YELLOW dot
 Install the rivet in this hole

All Models

12. 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.

- 13. Install wheels.
- 14. Lower the vehicle and remove the jack.
- 15. Tighten wheel lug nuts as per the following sequence.

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



TYPICAL

16. Close the cargo box.

Front Shock Absorber

- 1. Block rear wheels.
- 2. Loosen wheel lug nuts.
- 3. Lift the front of vehicle and support it securely.
 - 3.1 Insert the jack under the vehicle by the side, behind front wheels.
 - 3.2 Place the jack under the central beam.
 - 3.3 Lift the front of vehicle.
- 4. Remove front wheels.

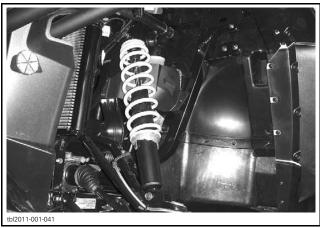
NOTE: Wheels removal is not necessary but allows more room.

- 5. Remove the suspension brackets. Discard bolts and nuts.
- 6. Install shock absorbers.

All except LTD

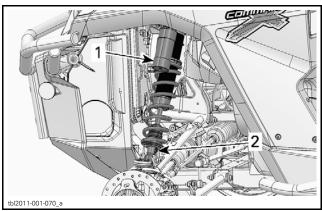
NOTE: Make sure to position nuts rearward.

PDI KIT PARTS	QTY
M10 x 55 hexagonal flange bolts	4
M10 elastic flange nuts	4



STD, DPS AND XT MODELS

NOTE: On XT-P model, place the reservoir outwards.



XT-P MODELS — LH SIDE OF THE VEHICLE

- 1. Reservoir facing outside
- Low speed compression adjuster facing rearward

PARTS	TORQUE
Shock absorber nuts	48 N•m (35 lbf•ft)

LTD Models

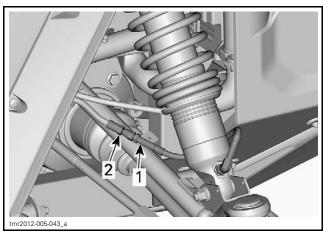
- 7. Install the front shock absorbers.
 - 7.1 Install shock absorbers with the reservoir outwards.
 - 7.2 Secure shock absorbers using the following fasteners.

PDI KIT PARTS	QTY
M10 x 55 hexagonal flange bolts	2
M10 elastic flange nuts	2

TIGHTENING TORQUE	
Shock absorber nuts	48 N•m (35 lbf•ft)

7.3 Route the hoses in front of the shock absorbers.

7.4 Connect the shock absorber hoses to vehicle air supply hoses.



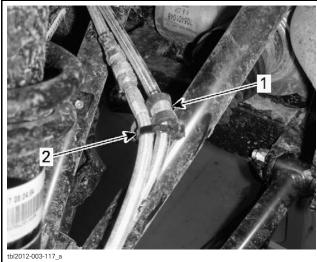
TYPICAL – RH SIDE SHOWN

- Shock absorber hose
 Vehicle air supply hose

TIGHTENING TORQUE	
Air supply hose	6 N•m (53 lbf•in)

7.5 Secure shock absorber hoses to brake hoses using locking ties.

PDI KIT PARTS	QTY
Locking ties	2



TYPICAL - RH SIDE SHOWN

- 1. Brake hose retaining clamp
- 2. Locking tie

All Models

8. Clean brake disc. Use the XPS BRAKES AND PARTS CLEANER (USA) (P/N 219 701 705) and a clean raq.

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.

- 9. Install wheels.
- 10. Lower the vehicle.
- 11. Tighten wheel lug nuts as per the following sequence.

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



TYPICAL

Cage Installation

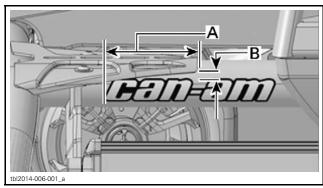
1. Assemble the cage.

PDI KIT PARTS	QTY
M10 x 30 Torx screws(P/N 250 000 624)	4
M10 nut	4

NOTE: DO NOT TIGHTEN screws until installation is completed.

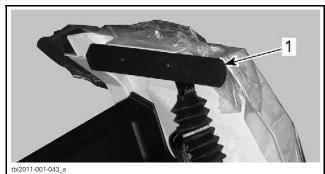
- 2. On XT-P model, install the Can-Am decal on the front tube of cage.
 - 2.1 Clean the right portion of the front tube.
 - 2.2 Install the decal.

DECAL POSITION	
100 mm (4 in) from right tube	



A. 100 mm (4 in) B. 5 mm (0.2 in)

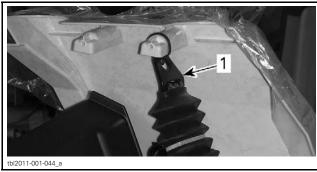
- 3. Open the rear cargo box.
- 4. On both side of vehicle, remove support plates. NOTE: Keep screws for reinstallation.



LH SIDE OF VEHICLE SHOWN

- 1. Support plate
- 5. Cut locking ties securing the seat belts.

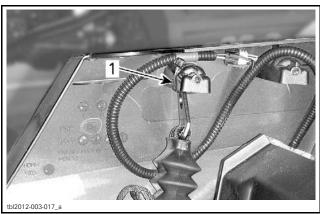
All except LTD



LH SIDE OF VEHICLE SHOWN 1. Seat belt attachment

LTD Models

6. Cut locking ties securing the seat belts. Do not remove the piece of tape holding the wiring harness.



LH SIDE OF VEHICLE SHOWN

- 1. Seat belt attachment
- 7. 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.

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



8. Secure the cage to vehicle.

PDI KIT PARTS	QTY
M10 x 30 Torx screws	8



TYPICAL — RH FRONT CAGE ATTACHMENT POINT



TYPICAL — RH REAR CAGE ATTACHMENT POINT

1. M10 x 30 Torx screws

- 9. Tighten all cage screws.
 - Front attachment points
 - Rear attachment points
 - Joints between front and rear portion of cage.

PARTS	TORQUE
M10 x 30 Torx screws	65 N•m to 70 N•m (48 lbf•ft to 52 lbf•ft)

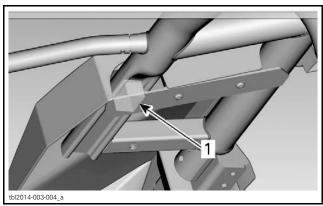
10. Secure rear lateral panels using NEW push nuts (from PDI kit).



TYPICAL 1. Push nuts

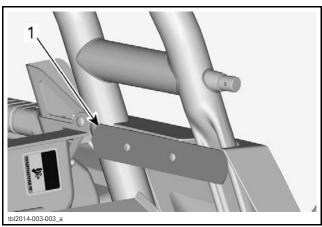
All except LTD

11. Install support plates to retain the top of the rear lateral panels. Make sure to install square foam behind support plate.



TYPICAL 1. Foam

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



LH SIDE OF VEHICLE SHOWN

1. Support plate

LTD Models

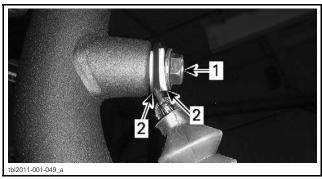
Do not install support plates now. They will be removed to connect rear speakers.

Seat Belt Installation (All except 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 shoulder bolts	2
7/16-20 elastic nuts	2
Nylon flat washers	4

NOTICE Make sure belt is not twisted.

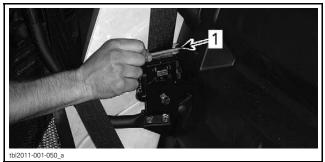


Shoulder bolt
 Nylon flat washer

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

LTD Models

3. Remove and discard the ORANGE belt lock near seat belt mechanism.



1. ORANGE belt lock

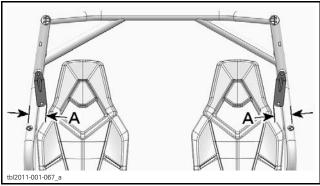
Seat Belt Installation (CE Models)

- 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 retaining seat belt.



1. Remove and discard this elastic

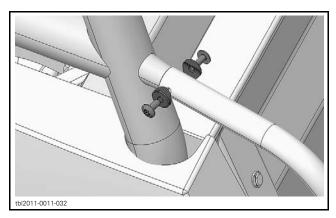
Shoulder Guard Installation

1. Slide shoulder guard into lateral net hoops.



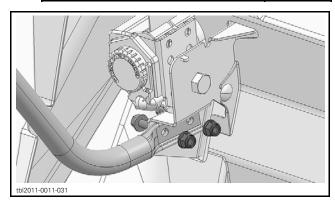
- 2. Install shoulder guard to frame.
 - 2.1 Secure the top of the shoulder guard.

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



2.2 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



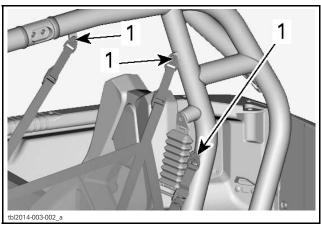
Lateral Net Installation

1. Buckle the lateral net.



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

PDI KIT PARTS	QTY
M5 x 14 Torx screws	6



TYPICAL

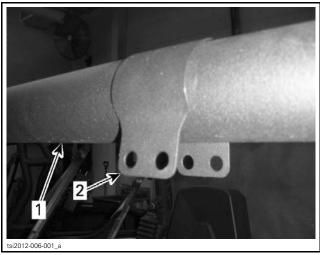
1. M5 x 14 Torx screws

TIGHTENING TORQUE	
M5 x 14 Torx screw	4.5 N•m (40 lbf•in)

- 3. Adjust the length of the lateral net straps.
- 4. Buckle off the lateral net.

Central Mirror (LTD CE Models Only)

1. Install central mirror collar in the center of the front transversal cage tube.



- Front transversal cage tube
 Central mirror collar
- 2. Position central mirror bushing in the central mirror collar opening.

NOTE: Make sure rounded section of bushing is oriented towards rear of vehicle.

3. Tighten using clamp pliers to allow for insertion of retaining screws.

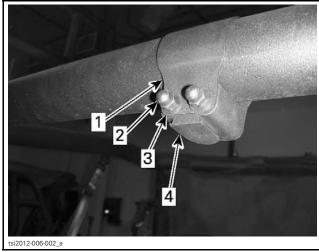


TIGHTENED CENTRAL MIRROR COLLAR ONTO CENTRAL MIRROR BUSHING USING CLAMP PLIERS

- 4. From inside of vehicle, insert a M6 X 45 Torx screw and secure with a cap nut to hold temporarily the central mirror bushing in place.
- 5. Install the second M6 X 45 Torx screw with a flat washer and a cap nut.
- 6. Remove previously installed domed nut from retaining screw holding central mirror bushing in place.
- 7. Install flat washer and reinstall domed nut.

TORQUE	
M6 cap nut	6 N•m (53 lbf•in)

8. Remove clamp pliers.



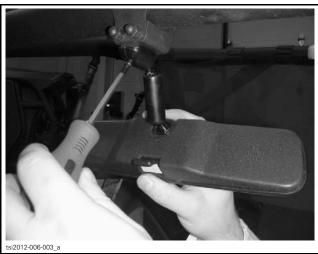
- 1. Central mirror collar
- Cap nut
 Flat washer
- 4. Central mirror bushing
- 9. Loosen screw on central mirror to remove metal bushing.



LOOSENING SCREW TO REMOVE THE METAL BUSHING

- 10. Slide central mirror onto central mirror bushing.
- 11. Torque screw to specification.

TORQUE		
Central mirror retaining screw	2.5 N•m (22 lbf•in)	



INSTALLING THE MIRROR

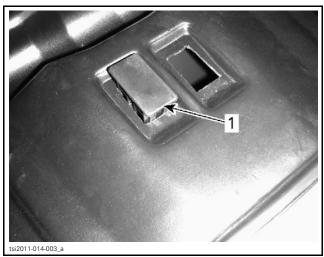
Sport Visor (LTD Models)

REQUIRED PARTS	QTY
Sport visor	1
Sport visor installation kit (from predelivery box #1)	1

1. Place sport visor upside down on a non abrasive surface.

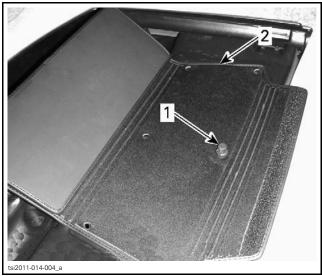


2. Install plastic caps into openings in sport visor if installed without lights. Otherwise refer to lights instruction sheets.



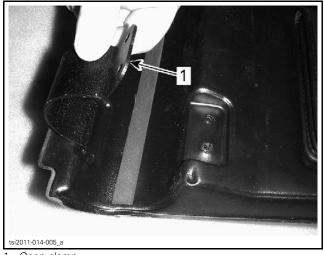
1. Plastic cap

3. Install visors pockets on sport visor and secure with plastic rivets.



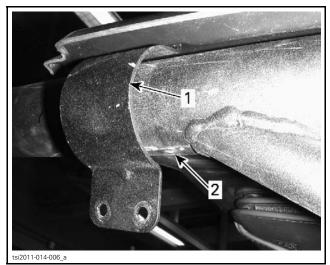
 Plastic rivet.
 Visor pocket Plastic rivet.

- 4. Install foam gasket on all rounded sections, previously cleaned with isopropyl alcohol, where sport visor will be in contact with cage tubes.
- 5. Install sport visor onto vehicle.
 - 5.1 Install open clamps into slot in sport visor.



1. Open clamp

5.2 Pass open clamps around cage tubes.



TYPICAL

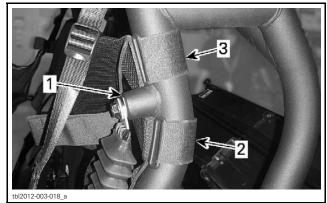
- 1. Open clamp
- 2. Side cage tube
- 6. Secure sport visor with k50 screws into clamps.

TORQUE	
Sport visor screws	2.5 N•m (22 lbf•in)

Rear Wind Screen (LTD Models)

REQUIRED PARTS	QTY
Rear wind screen	1
Rear wind screen installation kit (from predelivery box #1)	1

- 1. Unfold rear wind screen.
- 2. Install the upper middle straps loosely around the rear upper cage tube to support the rear wind screen.
- 3. On both sides, secure the second strap below seat belt attachment point and the third strap above this point, as shown on the following illustration.



- 1. Seat belt attachment point
- 2. Second strap
- 3. Third strap

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4. Attach all remaining straps to cage tube.

5. Secure rear wind screen hooks at the bottom of the seat belt mechanism attachment plate.



1. Rear net hook

2014-2

- 6. Pull hook straps tight.
- 7. Secure lower section of rear wind screen.
 - 7.1 Remove the top middle screw, metallic flat washer and nut from the rear bulkhead.
 - 7.2 Using previously removed fasteners, secure the bottom of the rear wind screen against the bulkhead. Install the new plastic washer (from the rear net installation kit) between rear wind screen and screw head.
 - 7.3 Tighten screw to specification.

TORQUE	
Bulkhead screw	10 N•m (89 lbf•in)

Roof Middle Section (LTD Models)

REQUIRED PARTS	QTY
Roof middle section	1
Roof middle section installation kit (from predelivery box #1)	1

- 1. Install roof middle section upside down on a smooth non abrasive surface.
- 2. Clean seal groove with isopropyl alcohol.
- 3. Install neoprene seal into groove located toward front of top. Cut extra length if needed.

PREDELIVERY



1. Neoprene seal

- 4. Install foam gasket into on all rounded sections, previously cleaned with isopropyl alcohol, where roof middle section will be in contact with cage tubes.
- 5. Install straps holder on roof middle section as depicted on picture below.



Strap toward outside for rear section
 Strap toward inside for front section

NOTE: Slots in strap holders are for roof adjustment against cage tubes and sport visor.

6. Secure strap holders in place with k50 screws from the roof middle section installation kit. Tighten screws to specification.

TORQUE	
Strap holder screws	2.5 N•m (22 lbf•in)

- 7. Install roof middle section above sport visor. Pay attention to fit both tops with notch between both.
- 8. Install straps around cage tube. Do not tighten before all straps are installed.
- 9. Tighten each strap.

Rear Speakers (LTD Models)

REQUIRED PARTS	QTY
Rear speaker (from predelivery box #1)	2
Rear speaker installation kit (from predelivery box #1)	1

Speakers are identified by a letter to the back of box, in the rounded section.

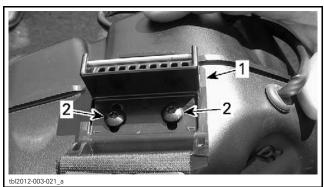
SPEAKER LETTER	POSITION
L	Left side
R	Right side

1. Install foam gasket on rounded section, previously cleaned with isopropyl alcohol, where rear speaker box will be in contact with cage tube.



1. Foam gasket

2. Slacken strap holder screw and position the rear speaker box on cage. Move the strap holder to determine the best position.



1. Strap holder

2. Strap holder screws

3. Hold the strap holder in this position and remove rear speaker box from cage to tighten strap holder screws.

TORQUE	
Strap holder screws	0.5 N•m (4lbf•in)

- 4. Install an open clamp into slot in rear speaker box.
- 5. Position the rear speaker box on cage.
- 6. Secure the open clamp with K50 screws (from the rear speaker installation kit).

TORQUE	
Rear speaker screws	2.5 N•m (22 lbf•in)

7. Attach the strap around cage tube

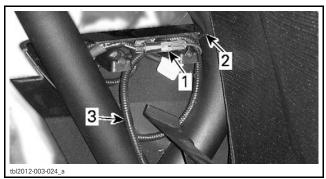


8. Route the rear speaker harness along the cage tube and secure it using rear wind screen straps.

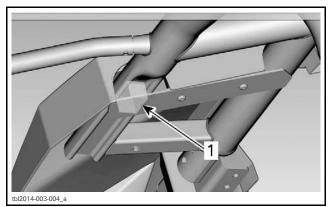


- 9. Connect rear speaker.
 - 9.1 Connect rear speaker connector with vehicle connector.

- 9.2 Route harnesses around rear lateral panel posts.
- 9.3 Position connectors between post.



- 1. Connectors between posts
- 2. Rear speaker harness
- 3. Vehicle harness
- 10. Reinstall support plate using previously removed K50 x 16 Torx screws. Make sure to install square foam behind support plate.

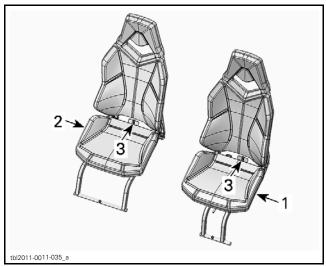


TYPICAL 1. Foam

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

11. Repeat on the other side.

Seats



- 1. Driver's seat
- 2. Passenger's seat
- 3. Latch to release the seat
- 1. Insert the seat in the cockpit.
- 2. Install the seat support into retaining brackets.
- 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.

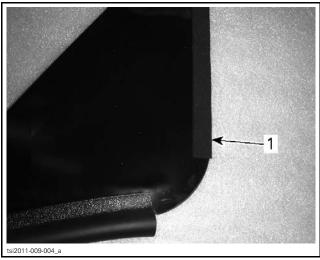
Loosen retaining screws and reposition the seat latch pin.



Half Windshield (LTD Models)

REQUIRED PARTS	QTY
Half windshield	2
Hal windshield installation kit (from predelivery box #1)	1

- 1. Install windshield on a clean, non abrasive surface with the interior facing up.
- 2. Install a neoprene seal on LH and RH side along the straight edges of the windshield.



1. Neoprene seal

- 3. Turn windshield upside down to have outside facing up.
- 4. Push the strap holders to snap into the slots in windshield.

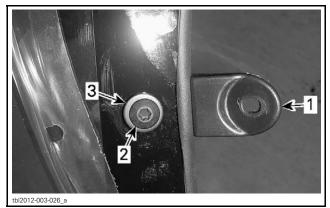




5. Install windshield supports at the bottom of windshield as per the following illustrations.

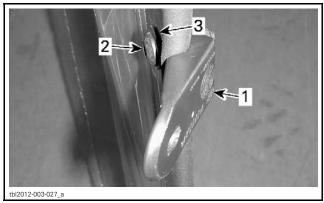
NOTE: Ensure windshield support is properly seated against windshield.

TORQUE		
M6 x 25 Torx screws	Hand torque	

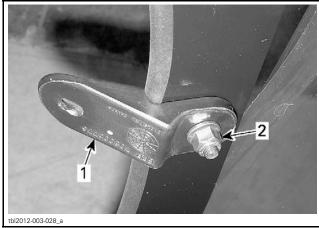


OUTSIDE FACING UP Windshield support

- M6 x 25 Torx screw
- 3. Stainless steel washer

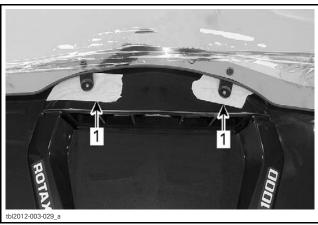


- Windshield support
- M6 x 25 Torx screw Stainless steel washer



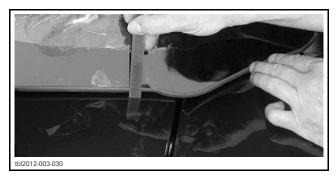
INTERIOR FACING UP

- Windshield support
- 2. M6 elastic flange nut
- 6. Install the windshield on vehicle.
 - 6.1 Install a piece of masking tape under each windshield support to avoid scratching the hood.



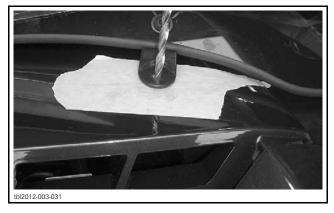
Pieces of masking tape

6.2 Position the bottom of windshield at 7 mm to 10 mm (9/32 in to 3/8 in) hood.



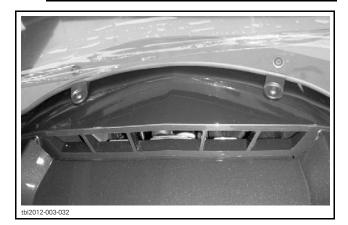
6.3 Using a 6.4 mm (1/4 in) drill bit and windshield support as template, drill 2 holes through the hood.

NOTICE Retain the drill to avoid damaging the air intake silencer.



Secure windshield supports using M6 x 20 Torx screws and M6 elastic flange nuts (from half windshield installation kit)

TO	ORQUE
M6 x 20 Torx screws	10 N•m (89 lbf•in)



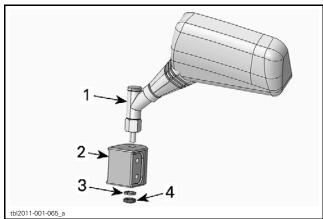
- 7. Secure half windshield using the four straps.
- 8. Remove the plastic protective film from the windshield.

Mirrors (CE Models Only)

LH Mirror

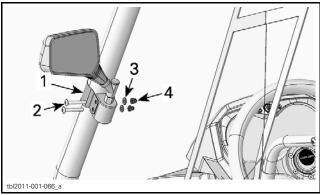
All except LTD

- 1. Assemble the LH 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 LH 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
- 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)

LH Mirror

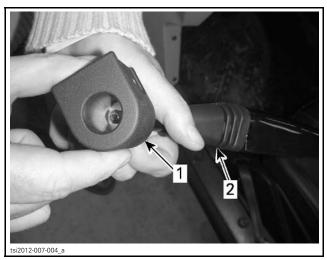
LTD Models

1. Remove and keep nut from the bottom of the LH mirror assembly pivoting pole.



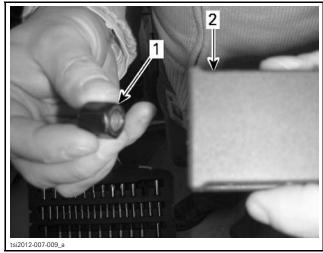
REMOVE NUT FROM LH MIRROR ASSEMBLY

2. Insert LH mirror assembly pivoting pole into mirror bushing.



INSERT LH MIRROR ASSEMBLY PIVOTING POLE INTO MIRROR

- 3. Insert lock washer.
- 4. Insert previously removed nut and tighten. Do not torque yet



INSERT PREVIOUSLY REMOVED NUT INTO MIRROR BUSHING

- Previously removed nut
 Mirror bushing

NOTE: Make sure nut is oriented properly.



INCORRECT NUT ORIENTATION

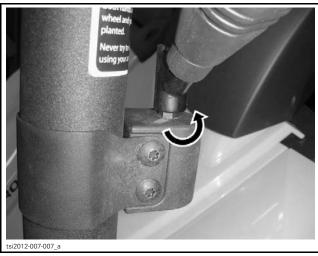
- 5. Position mirror collar onto LH cage post, between both half windshield retaining straps.
- 6. Position mirror bushing into mirror collar.
- 7. Hold using clamp pliers to allow for insertion of retaining screws.

NOTICE To prevent damage to surface, use rubber ended clamp pliers or material between clamp pliers and the mirror collar.



TIGHTENED MIRROR BUSHING INTO MIRROR COLLAR

NOTE: Ensure pivoting pole is installed so that the mirror will turn towards the rear of vehicle.



MIRROR PIVOT TOWARDS THE REAR

- 8. From outside of vehicle, insert a M6 X 45 Torx screw and secure with a cap nut to hold temporarily the mirror bushing in place.
- 9. Install the second M6 X 45 Torx screw with a flat washer and a cap nut.

TORQUE		
M6 cap nut	6 N•m (53 lbf•in)	



TIGHTEN RETAINING SCREW

10. Adjust mirror angle.



LH SIDE MIRROR INSTALLED

11. Torque nut, inside mirror bushing, to specification.

TORQUE		
Mirror bushing nut	15 N•m (133 lbf•i n)	

Central Mirror

- 1. Install the U bracket in center of the front transversal cage tube.
- 2. Install the central mirror.
- 3. Secure them using M6 x 45 Torx screws, M6 flat washers and M6 cap nuts.
- 4. Tighten cap nuts.

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

Mudguards (CE Models Only)

A kit of mudguard is delivered with the vehicle. This kit may be installed or not in accordance with owner preferences.

Install mudguard kit as per their installation instructions (included in the bag).

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.

A 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 regular 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	87 (R + M)/2		
Outside North America	92 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)	

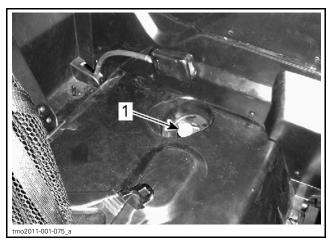
NOTE: The XPS oil is specially formulated to meet the lubrication requirements of this engine. BRP strongly recommends the use of its XPS 4-stroke oil.

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

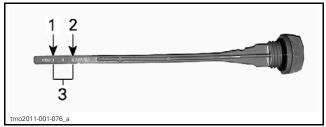
If XPS oil is not available, use 4-stroke SAE 5W 40 engine oil that meets or exceeds the requirements for API service classification SM, SL or SJ. Always check the API service label certification on the oil container it must contain at least one of the above standards.

Engine Oil Level Verification

1. Unscrew dipstick then remove it and wipe clean.



- 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
- MAX
 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	LONG LIFE ANTIFREEZE (P/N 219 702 685)	
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.

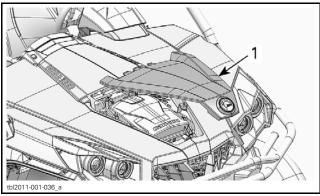
Engine Coolant Level Verification

A WARNING

Check coolant level with engine cold.

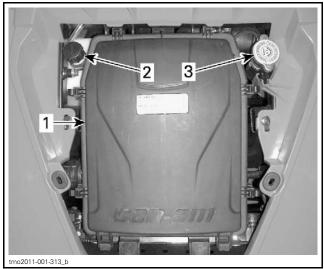
Place vehicle on a level surface.

Open service cover.



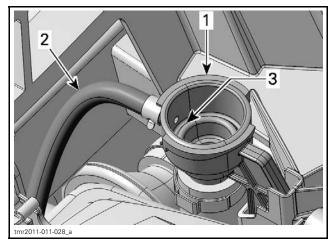
Service cover

Remove radiator pressure cap.



- Air filter housing cover
 Coolant expansion tank cap
 Radiator pressure cap

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



- Cooling system refill adapter
- 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 under the RH front fender.

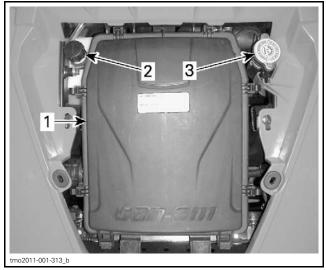
Coolant should be at the MIN mark when engine is COLD.



COOLANT EXPANSION TANK

Add coolant if required.

Locate coolant reservoir cap.



- Air filter housing cover
- Coolant resea
 Radiator cap Coolant reservoir cap

Remove filler cap.

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	69 kPa (10 PSI)	83 kPa (12 PSI)
MAXIMUM (USE WHEN TOTAL LOAD IS GREATER THAN 180 KG (397 LB)	83 kPa (12 PSI)	152 kPa (22 PSI)

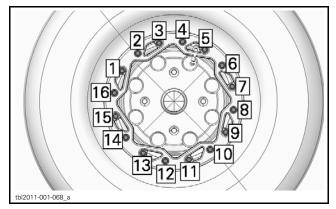
Wheel Beadlock

Wheel Beadlock Tightening

XT-P 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.

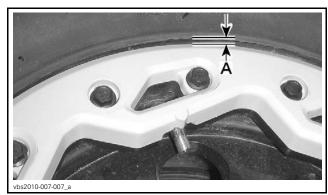


PART	TORQUE	
Beadlock screws	8 N•m (71 lbf•in)	

Wheel Beadlock Gap Verification

XT-P Model

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



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 on the lower RH side of the battery rack.



1 Diagnostic connector

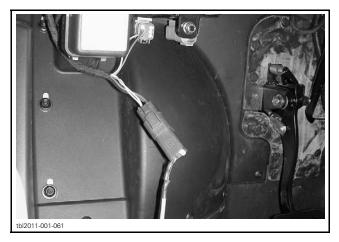
NOTE: Do not mismatch the diagnostic connector with the one on the LH side of the battery rack. This connector has 2 wires and is for manufacturer use only.

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.

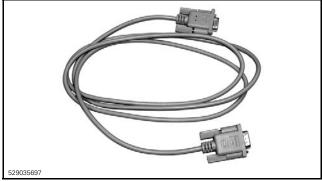


4. Connect the other end of diagnostic cable to the MPI-2 interface card.



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).



OPTIONAL MALE-FEMALE EXTENSION SERIAL CABLE

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



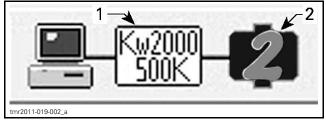
MPI-2 INTERFACE CARD CONNECTED TO USB PORT

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.

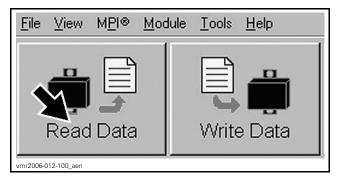
IMPORTANT: Ensure all connections have been made **before starting B.U.D.S.** to allow proper operation.

- 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

- Connection protocol
- 2. Number of modules read
- 5. Click the Read Data button.



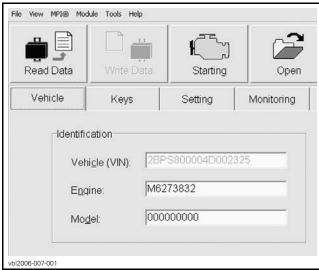
B.U.D.S. is now ready for edition, programming and for diagnostics.

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.

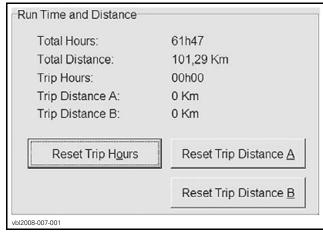


3. Click on WRITE DATA to save the information in the FCM.

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.

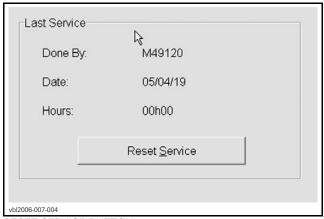


RESET TRIP BUTTONS

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.

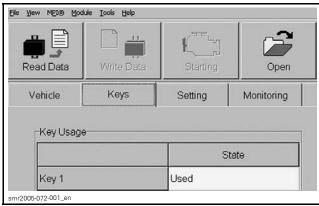


RESET SERVICE BUTTON

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

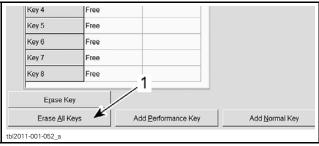
Programing Keys

1. Click on KEYS tab.



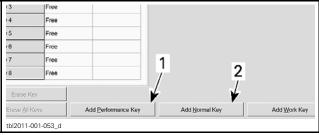
KEYS TAB

2. Click on ERASE ALL KEYS button.



- 1. Click here to erase all kevs
- 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).

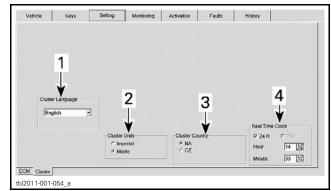
NOTE: The Work key (ORANGE key) is optional.

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

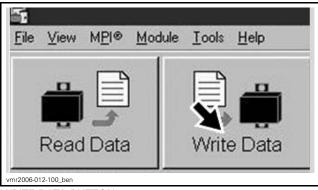
Click on FAULT tab and check if there are active faults.

 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.

A 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.

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 counter clockwise by the specified amount, see table below.

FRONT SUSPENSION FACTORY SETTINGS				
ADJUSTMENT	MODEL	FACTORY SETTING		
Spring preload	Base DPS XT	Cam position 1 (soft)		
Spring preiodu	XT-P	Spring length 310 mm (12.2 in)		
	LTD	Not adjustable		
Compression damping	XT-P	12 positions		
(low speed)	LTD	10 positions		
Compression damping (high speed)	XT-P	12 positions		
Rebound damping	XT-P	12 positions		

REAR SUSPENSION FACTORY SETTINGS				
ADJUSTMENT	MODEL	FACTORY SETTING		
Spring preload	Base DPS XT	Cam position 1 (soft)		
Spring preiodu	XT-P	Spring length 362 mm (14.3 in)		
	LTD	Not adjustable		
Compression damping	XT-P	12 positions		
(low speed)	LTD	10 positions		
Compression damping (high speed)	XT-P	12 positions		
Rebound damping	XT-P 12 positions			

Spring Preload Adjustment (Front and Rear)

All except LTD

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.

A WARNING

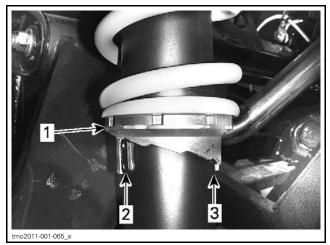
The left and right shock adjustment on front or rear suspension must always be set to the same position. Never adjust one shock only. Uneven adjustment can cause poor handling and loss of stability, which could lead to an accident.

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

All except XT-P Models

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Adjust by turning adjusting cam. Use tool from vehicle tool kit.

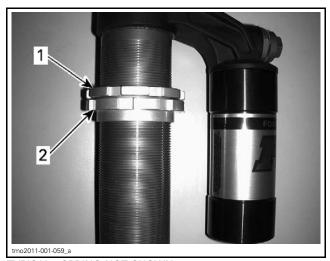


TYPICAL

- 1. Turn adjusting cams
- 2. Smooth adjustment
- 3. Hard adjustment

XT-P Models

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



PREDELIVERY

TYPICAL - SPRING NOT SHOWN

1. Loosen top lock ring

2. Turn adjuster ring accordingly

2014-2

Shock Damping Adjustments (Front and Rear)

XT-P and LTD Models

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

Low Speed Compression Damping

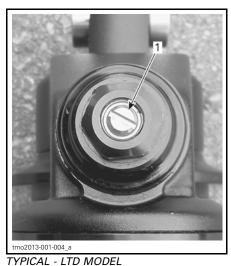
Low speed compression damping controls how the shock absorber reacts to a low suspension velocity (slow compression strokes, in most cases when riding at lower speeds).

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)	

Use a flat screwdriver to adjust it.



TYPICAL - XT-P MODEL
1. Low speed compression adjuster



Low speed compression adjuster

Turning it clockwise (H) **increases** shock damping action (stiffer).

Turning it counterclockwise (S) decreases shock damping action (softer).

High Speed Compression Damping

XT-P 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)

Use a 17 mm wrench to adjust it.



TYPICAL

1. High speed compression adjuster (17 mm socket)

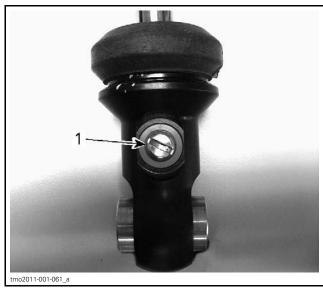
Turning it clockwise (H) **increases** shock damping action (harder).

Turning it counterclockwise (S) decreases shock damping action (softer).

Rebound Damping

XT-P Models

Use a flat screwdriver to adjust it.



1. Rebound adjuster

Turning it clockwise (H) **increases** shock damping action (harder).

Turning it counterclockwise (S) decreases shock damping action (softer).

Air Controlled Suspension (ACS)

LTD Models

Verify if the ACS compressor works.

- Start engine.
- Press the ACS button up and down to verify ACS compressor settings in multifunction gauge.

Check all suspension hose fittings for leak. Retighten if required.

NOTE: ACS factory setting positon ACS 1.

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 *PREDELIV-ERY 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		800R	1000	
ENGINE				
- · ·		ROTAX® 810	ROTAX® 1010	
Engine type		4-stroke, Single Over Head C	amshaft (SOHC), liquid cooled	
Number of cylinders			2	
Number of valves		8 valves (mecha	nical adjustment)	
Bore		91 mm (3.58 in)	91 mm (3.58 in)	
Stroke		61.5 mm (2.42 in)	75 mm (2.95 in)	
Displacement		799.9 cm³ (48.81 in³)	976 cm³ (59.56 in³)	
Exhaust system		Spark arrester approved	by USDA Forest Service	
Engine air filter		Synthetic	paper filter	
LUBRICATION SYST	EM	•		
Туре		Wet sump. Rep	laceable oil filter	
Oil filter		BRP Rotax® pape	r type, replaceable	
	Capacity (oil change with filter)	2 L (2.1 qt	(U.S. liq.))	
For the summer season, use XPS - SYNTH. BLEND OIL (SUMMER) (P/N 2 For the winter season, use XPS 4 SYNTHETIC OIL (ALL CLIMATE) (P/N 2 If not not available, use a 5W 40 motor of requirements for API service classification		MMER) (P/N 293 600 121). n, use XPS 4-STROKE MATE) (P/N 293 600 112).		
COOLING SYSTEM				
Coolant	Туре	Use long life antifreez	50% coolant, 50% water). ze(P/N 219 702 685) or ned for aluminum engines	
	Capacity	3.9 L (1 U.S. gal.)	4.3 L (1.1 U.S. gal.)	
CVT TRANSMISSION	V			
Туре		CVT (Continuously V	CVT (Continuously Variable Transmission)	
Engagement RPM		1750 ±	1750 ± 100 RPM	
GEARBOX				
Туре		Dual range (HI-LO) with	PARK, neutral and reverse	
	Capacity	450 ml (1	5 U.S. oz)	
Gearbox oil	Recommended	XPS synthetic gear oil (P/N 293 600 1 or a 75W 140 API GL-5		

	MODEL	800R	1000
ELECTRICAL SYSTEM			
Magneto generator output		625 W @ 600	00 RPM
Ignition system type		IDI (Inductive Discha	arge Ignition)
Ignition timing		Not adjust	able
	Quantity	2	
Spark plug	Make and type	NGK DCPR8E	
	Gap	0.7 mm to 0.8 mm (.028 in to .031 in)	
Engine RPM limiter se	etting	8000 RP	M
	Туре	Maintenance	e free
Dattam	Voltage	12 volts	S
Battery	Nominal rating	18 A•h	1
	Power starter output	0.7 KW	l
Headlights		4 x 60 \	N
Taillight		2 x 5/21	W
	Main	40 A	
	Accessories (main)	50 A	
	ACS/DPS (if equipped)	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	
Fuses	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	
FUEL SYSTEM			
Fuel delivery Type		Electronic fuel injection (EFI) with iTC	
Throttle body		54 mm with ETA	
Fuel pump Type		Electric (in fue	el tank)
Idle speed		1250 ± 100 RPM (not adjustable)	
Ту	ре	Regular unleaded gasoline	
Fuel M	inimum octane	87 Pump Posted AKI (92 RON)	
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.)	

MODEL		800R	1000	
DRIVE SYSTEM				
Drive system type		Selectable	2WD/4WD	
	Capacity	Front	500 ml (1	7 U.S. oz)
	Сараспу	Rear	280 ml (9.	5 U.S. oz)
Front Differential oil/rear final drive oil	Туре	Front	XPS Synthetic gear o (P/N 293 600 043) or synt	il (75W 90 API GL-5) thetic oil 75W 90 API GL5
	туре	Rear	XPS Synthetic gear of or a 75W 140 API G	
Front drive			Visco-lok† fro	nt differential
Front drive ratio			3.6	3:1
Rear drive			Spiral bevel g	ear/final drive
Rear drive ratio			3.6	5:1
CV joint grease			CV joint grease (I	P/N 293 550 019)
Propeller shaft grease			Propeller shaft greas	e (P/N 293 550 063)
STEERING				
Steering wheel			Adjustable tilt steering	
Turning radius			240 cm	(94.5 in)
Total toe (vehicle on ground)			0° ± 0.	2° (±)
Camber angle (vehicle on ground	nd)		0.7° p	ositive
FRONT SUSPENSION				
		Base DPS XT	Double suspension-arm w	rith dive-control geometry
Suspension type		XT-P	Double suspension-arm w with extern	vith dive-control geometry al sway-bar
		LTD	Double suspension-arm with d	ive-control geometry with ACS
Suspension travel		•	254 mm	n (10 in)
	Qty		2	2
Shock absorber		Base	Oil/5 spring pr	reload settings
	Туре	DPS	Oil/5 spring preload settings	
		XT	Oil/5 spring pr	reload settings
		XT-P	HPG shock with remote reservoir. Dual speed compression damping and rebound damping adjustments	
		LTD	HPG shock with remote rese (low speed) and air I	

MODEL		800R	1000	
REAR SUSPENSION				
Base DPS XT XT-P		DPS	Torsional Trailing arm Independant (TTI) with external sway bar	
		LTD		pendant (TTI) with external with ACS
Suspension travel			254 mm	n (10 in)
	Qty			2
		Base	Oil/5 spring p	reload settings
		DPS	Oil/5 spring p	reload settings
Shock absorber	_	XT	Oil/5 spring p	reload settings
	Туре	XT-P	HPG shock with remote reser damping and rebound	voir. Dual speed compression damping adjustments
		LTD	HPG shock with remote rese (low speed) and air	ervoir. Compression damping pressure adjustments
BRAKES				
Front brake	Туре		Dual 214mm ventilated disc brakes with hydraulion twin-piston calipers	
Rear brake	Туре		Single 214mm ventilated disc brake with hydraulic twin-piston caliper	
Brake fluid	Capacity		250 ml (8.5 U.S. oz)	
Brake Huld	Туре		DOT 4	
Caliper		Floa	iting	
Drake and material	Front		Metallic	
Brake pad material	Rear		Metallic	
Minimum brake pad thickness	-		1 mm (.039 in)	
Minimum laurille dies dielen	Front		4 mm (.157 in)	
Minimum brake disc thickness	Rear		4 mm (.157 in)	
Maximum brake disc warpage			0.2 mm (.001 ft)	
TIRES				
Pressure	Front		Maximum: 83 kPa (12 PSI) Minimum: 69 kPa (10 PSI)	
Tressure	Rear		Maximum: 152 kPa (22 PSI) Minimum: 83 kPa (12 PSI)	
Minimum tire thread depth			3 mm (.118 in)
	Eront	Base/XT-P	27 x 9 :	x 12 (in)
Tiro cizo	Front	DPS/XT/LTD	27 x 9 x 14 (in)	
Tire size	Door	Base/XT-P	27 x 11	x 12 (in)
	Rear	DPS/XT/LTD	27 x 11 x 14 (in)	

MODEL			800R	1000
WHEELS				
Base		Steel		
Туре		XT-P	Aluminum beadlock wheels	
		DPS/XT/LTD	Cast Alı	uminum
		Base	12 x	6 (in)
	Front	XT-P	12 x	6 (in)
Rim size		DPS/XT/LTD	14 x	7 (in)
niiii Size		Base	12 x	8 (in)
	Rear	XT-P	12 x 7	.5 (in)
		DPS/XT/LTD	14 x 8	.5 (in)
Wheel nuts torque			100 N•m ± 10 N•m	(74 lbf•ft ± 7 lbf•ft)
CHASSIS				
Cage type			50 mm (2 in) diameter, high strer	ngth steel, ROPS-approved cage
DIMENSIONS				
Overall length			300.4 cm (118.3 in)	
Overall width			148.9 cm (58.6 in)	
Overall height			182.9 cm (72 in)	
Wheelbase			192.4 cm	(75.7 in)
Wheel track	Front		125.7 cm (49.5 in)	
VVIIGEI LIACK	Rear		121.9 cm (48 in)	
Ground clearance			27.9 cm	(11 in)
LOADING CAPACITY A	ND WEIGHT			
Dry weight			584 kg (1,287 lb)	587 kg (1,295 lb)
Weight distribution (from	t/rear)		44/56	
	Total		272 kg (600 lb)	
Cargo box capacity	Upper		181 kg (400 lb)	
Lower		272 kg (600 lb)		
		All models except LTD	363 kg (800 lb)	
LTD mode		LTD model	340 kg (750 lb)	
Gross vehicle weight rating		990 kg (2,183 lb)		
Towing capacity			680 kg (1,500 lb)	
Hitch support		50.8 mm (2 in) x 50.8 mm (2 in)		

CE Models

MODEL		800R	1000	
ENGINE				
F		ROTAX® 810	ROTAX® 1010	
Engine type		4-stroke, Single Over Head Ca	amshaft (SOHC), liquid cooled	
Number of cylinders		2	2	
Number of valves		8 valves (mechai	nical adjustment)	
Bore		91 mm (3.58 in)	91 mm (3.58 in)	
Stroke		61.5 mm (2.42 in)	75 mm (2.95 in)	
Displacement		799.9 cm³ (48.81 in³)	976 cm³ (59.56 in³)	
Exhaust system		Spark arrestor approved	by USDA Forest Service	
Engine air filter		Synthetic (paper filter	
LUBRICATION SYSTE	M			
Туре		Wet sump. Repl	laceable oil filter	
Oil filter		BRP Rotax® paper	type, replaceable	
	Capacity (oil change with filter)	2 L (2.1 qt	(U.S. liq.))	
Engine oil	For the summer season, use XPS 4 SYNTH. BLEND OIL (SUMMER) (P/N 29 For the winter season, use XPS 4- SYNTHETIC OIL (ALL CLIMATE) (P/N 29 If not not available, use a 5W 40 motor oil		IMER) (P/N 293 600 121). n, use XPS 4-STROKE MATE) (P/N 293 600 112).	
COOLING SYSTEM				
Coolant	Туре	Ethyl glycol/water mix (50% coolant, 50% water Use long life antifreeze(P/N 219 702 685) or coolant specifically designed for aluminum engine		
	Capacity	3.9 L (1 U.S. gal.)	4.3 L (1.1 U.S. gal.)	
CVT TRANSMISSION				
Туре		CVT (Continuously Va	CVT (Continuously Variable Transmission)	
Engagement RPM		1750 ± 1	1750 ± 100 RPM	
GEARBOX				
Туре		Dual range (HI-LO) with F	PARK, neutral and reverse	
	Capacity	450 ml (1	5 U.S. oz)	
Gearbox oil Recommended		XPS synthetic gear o or a 75W 1		

MODEL		800R	1000	
ELECTRICAL SYSTEM				
Magneto generator output		625 W @ 6000 RPM		
Ignition system type		IDI (Inductive Discharge Ignition)		
Ignition timing		Not adjustable		
Spark plug	Quantity	2		
	Make and type	NGK DCPR8E		
	Gap	0.7 mm to 0.8 mm (.028 in to .031 in)		
Engine RPM limiter setting		8000 RPM		
	Туре	Maintenance free		
Dettem:	Voltage	12 volts		
Battery	Nominal rating	18 A•h		
	Power starter output	0.7 KW		
Headlights		4 x 60 W		
Taillight		2 x 5/21 W		
Turn signal light		2 x 10 W		
License plate light		2 x 5 W		
Position light		2 x !	5 W	
	Main	40	А	
	Accessories (main) 50 A		A	
	DPS (if equipped)	50 A		
	Speedometer/tail lamp	10 A		
	Ignition/injection/ speed sensor	7.5	7.5 A	
	Engine control module (ECM)	5 A		
Fuses	4WD Actuator (winch if equipped) 5 A		A	
	Key switch	5 A		
	Fan (fuse breaker)	fuse breaker) 25 A		
	European component 5 A		A	
	Head lamp	30 A		
	DC outlet	15 A		
	Relay driver	5 A		
	Accessories	15	Α	
	Fuel pump	5 A		

MODEL			800R	1000	
FUEL SYSTEM					
Fuel delivery Type			Electronic fuel injection (EFI) with iTC		
Throttle body			54 mm with ETA		
Fuel pump	Туре		Electric (in	Electric (in fuel tank)	
Idle speed	•		1250 ± 100 RPM (not adjustable)		
F 1	Туре		Regular unleaded gasoline		
Fuel	Minimun octane		87 Pump Posted AKI (92 RON)		
Fuel tank capacity			37.8 L (10 U.S. gal.)		
Fuel remaining when low fuel I	ight turns ON		± 12 L (3.2 U.S. gal.)		
DRIVE SYSTEM					
Drive system type			Selectable 2WD/4WD		
	0	Front	500 ml (17	7 U.S. oz)	
	Capacity	Rear	280 ml (9.	5 U.S. oz)	
Front Differential oil/rear final drive oil	Туре	Front	XPS Synthetic gear oil (75W 90 API GL-5) (P/N 293 600 043) or synthetic oil 75W 90 API GL5		
		Rear	XPS Synthetic gear oil (P/N 293 600 140) or a 75W 140 API GL-5 synthetic gear oil		
Front drive			Visco-lok† from	Visco-lok† front differential	
Front drive ratio			3.6:1		
Rear drive			Spiral bevel gear/final drive		
Rear drive ratio			3.6:1		
CV joint grease			CV joint grease (P/N 293 550 019)		
Propeller shaft grease			Propeller shaft grease (P/N 293 550 063)		
STEERING					
Steering wheel			Adjustable tilt steering		
Turning radius			240 cm (94.5 in)		
Total toe (vehicle on ground)			0° ± 0.2° (±)		
Camber angle (vehicle on grour	nd)		0.7° positive		
FRONT SUSPENSION					
		Base/XT	Double suspension-arm w	rith dive-control geometry	
Suspension type XT-P		XT-P	Double suspension-arm with dive-control geometry with external sway-bar		
Suspension travel		254 mm	(10 in)		
	Qty		2		
.	Туре	Base	Oil / 5 spring p	oreload settings	
Shock absorber		XT	Oil / 5 spring preload settings		
		XT-P	HPG shock with remote reservoir. Dual speed compression damping and rebound damping adjustments		

MODEL			800R	1000	
REAR SUSPENSION					
Suspension type			Torsional Trailing arm Independ	ant (TTI) with external sway bar	
Suspension travel			254 mm (10 in)		
	Ωty		2		
Shock absorber	Туре	Base/XT	Oil / 5 spring preload settings		
		XT-P	HPG shock with remote reservoir. Dual speed compress damping and rebound damping adjustments		
BRAKES			damping and rebound	damping adjustments	
	1_		Dual 214mm ventilated o	disc brakes with hydraulic	
Front brake	Туре		twin-piston calipers		
Rear brake	Туре		Single 214mm ventilated disc brake with hydraulic twin-piston caliper		
Brake fluid	Capacity		250 ml (8.5 U.S. oz)		
Diake iiulu	Туре		DOT 4		
Caliper	_		Floating		
Brake pad material	Front		Metallic		
Diake pad material	Rear		Metallic		
Minimum brake pad thickness		1 mm (.039 in)			
Minimum brake disc thickness	Front		4 mm (.157 in)		
TVIIIIII DI UKO GIBO LIITOKIICOS	Rear		4 mm (.157 in)		
Maximum brake disc warpage		0.2 mm (.001 ft)			
TIRES					
Pressure	Front		Maximum: 83 kPa (12 PSI) Minimum: 69 kPa (10 PSI)		
11033410	Rear		Maximum: 152 kPa (22 PSI) Minimum: 83 kPa (12 PSI)		
Minimum tire thread depth		3 mm (.118 in)			
	Front	Base/XT-P	27 x 9	x 12 (in)	
Tire size	TTOTIC	XT	27 x 9	x 14 (in)	
1110 3120	Rear	Base/XT-P	27 x 11	x 12 (in)	
		XT	27 x 11	x 14 (in)	
WHEELS					
		Base	Steel		
		XT-P		adlock wheels	
		XT		luminum	
	Front	Base	12 x 6 (in)		
		XT-P	12 x 6 (in)		
Rim size		XT	14 x 7 (in)		
0120	Rear	Base	12 x 8 (in)		
		XT-P	12 x 7.5 (in)		
		XT	14 x	8.5 (in)	
Wheel nuts torque			100 N•m ± 10 N•m (74 lbf•ft ± 7 lbf•ft)		

MODEL		800R	1000	
CHASSIS				
Cage type		50 mm (2 in) diameter, high stre	50 mm (2 in) diameter, high strength steel, ROPS-approved cage	
DIMENSIONS				
Overall length		300.4 cm (118.3 in)		
Overall width		148.9 cm (58.6 in)		
Overall height		182.9 cm (72 in)		
Wheelbase		192.4 cm (75.7 in)		
Wheel track	Front	125.7 cm (49.5 in)		
vvneer track	Rear	121.9 cm (48 in)		
Ground clearance		27.9 cm (11 in)		
LOADING CAPACITY AI	ND WEIGHT			
Dry weight (models without accessories)		610 kg (1,344.8 lb)	635 kg (1,399.9 lb)	
Weight distribution (front/rear)		44 / 56		
	Total	272 kg (600 lb)		
Cargo box capacity	Upper	181 kg (400 lb)		
	Lower	272 kg (600 lb)		
Total vehicle load allowed (including driver, passenger, all other loads and added accessories)		363 kg (800 lb)		
Gross vehicle weight rating		990 kg (2,183 lb)		
Towing capacity		270 kg (600 lb)		
Hitch support		50.8 mm (2 in) x 50.8 mm (2 in)		