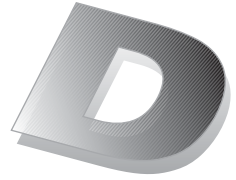




**SIDE-BY-SIDE
VEHICLES**
**PREDELIVERY
Bulletin**



September 6, 2011 Subject: **Predelivery Inspection Can-Am™
Commander™ 1000 LTD**

No. **2012-2**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2012	Commander 1000 LTD	6GCA, 6GCB, 6GCC, 6GCD	All

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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

IMPORTANT: Technicians should read and apply all procedures in this PDI bulletin.

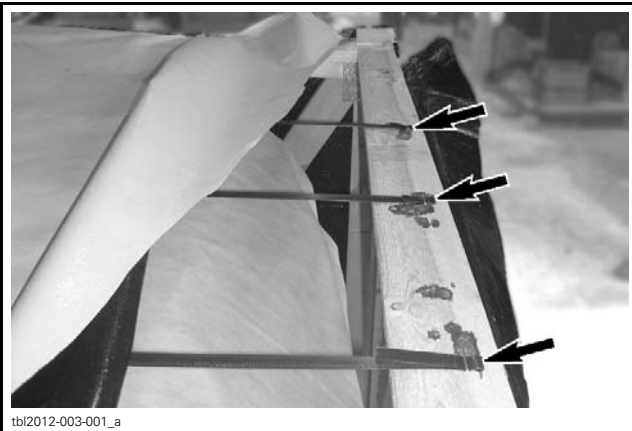
UNCRATING

Crate Cover Removal

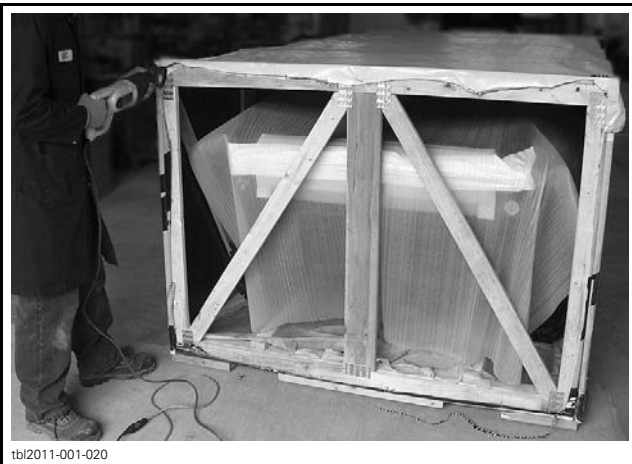
1. Carefully lay the crate on its bottom on a firm, level surface.

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

2. Remove all screws retaining crate cover to crate base. Screws that are used are Robertson† #2 type that require the use of an appropriate screwdriver.
3. Carefully cut both ends of crate tarpaulin to locate the rear of vehicle.
4. Cut straps on the top of crate.

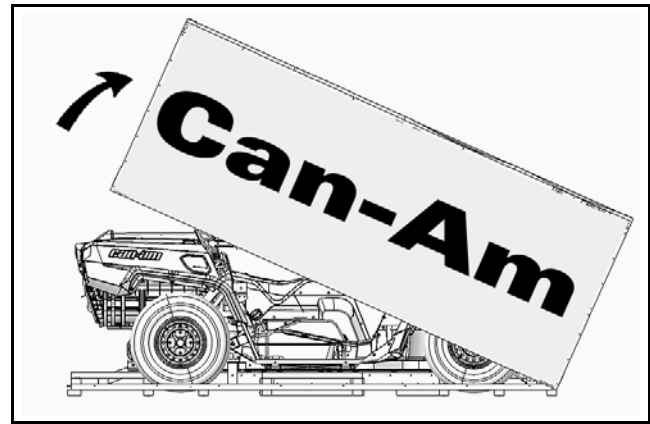


5. Remove the rear cover end.



NOTICE Ensure rear cover end is removed before tilting the crate cover.

6. Assisted by another person, tilt the crate cover.



Vehicle Removal from Crate

1. Remove protective wrapping from the vehicle.



1. Protective wrapping

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

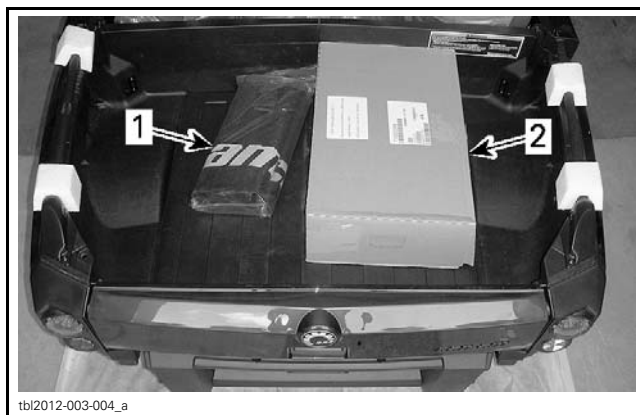


1. Bungees

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

† Robertson is a registered trademark of Robertson Inc.

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



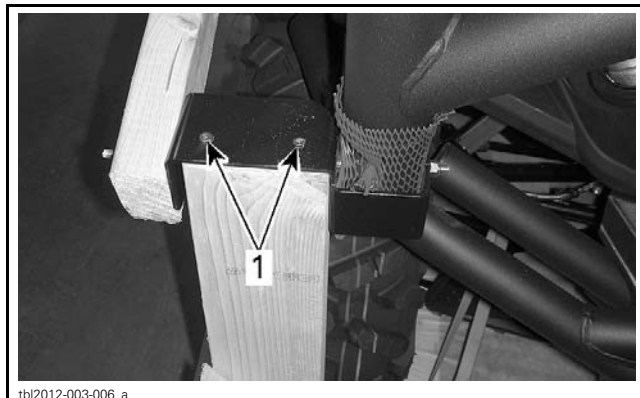
tbi2012-003-004_a

TYPICAL – ALL EXCEPT CE MODELS

1. Rear wind screen
2. Predelivery box #1

4. Remove cage from vehicle.

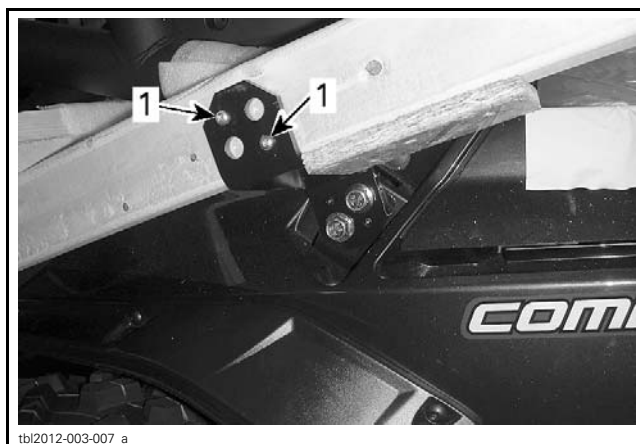
- 4.1 Remove all screws (square head) retaining cage section support.
 - Two front brackets (4 screws)
 - Two lateral brackets (4 screws)
- 4.2 Carefully remove the cage section support from vehicle crate.



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TYPICAL – FRONT RH SIDE OF VEHICLE

1. Retaining screws



tbi2012-003-007_a

TYPICAL – LH SIDE OF THE VEHICLE

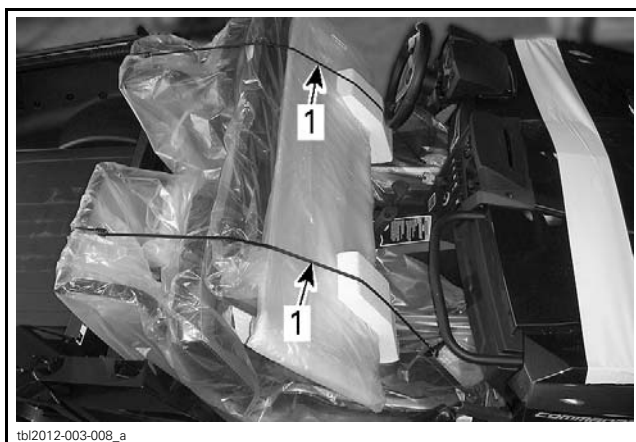
1. Retaining screws

5. Remove steel supports from the front fenders. Discard bolts and support.



tbi2011-001-009

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



tbi2012-003-008_a

1. Bungees

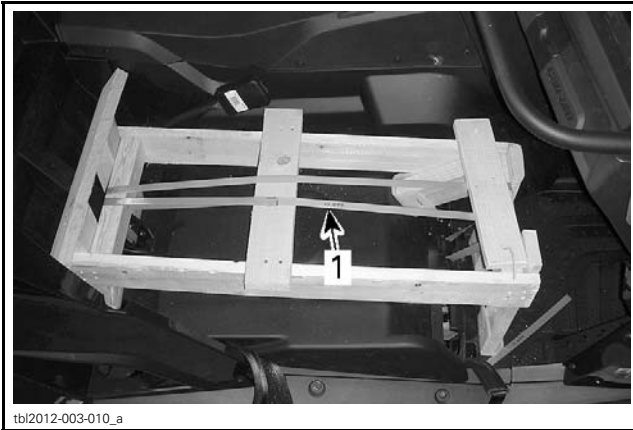
7. Remove seats from vehicle.

- 7.1 Cut locking ties securing the headrest to the wood support.
- 7.2 Lift the bottom of the seat and remove seat from vehicle.



tbi2012-003-009

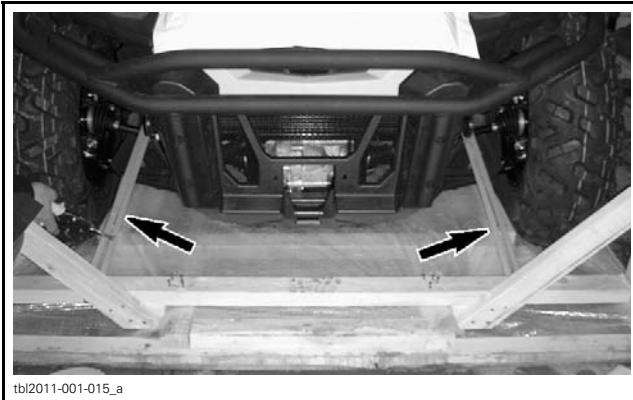
8. Cut retaining straps and remove wood supports.



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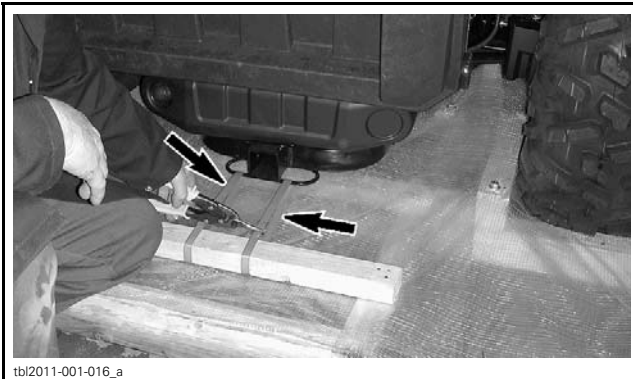
TYPICAL – PASSENGER SIDE
1. Retaining strap

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



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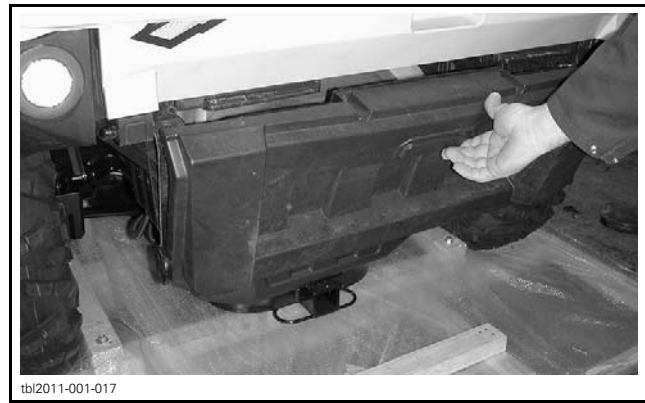
FRONT OF VEHICLE



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REAR OF VEHICLE

10. Remove parts from the rear cargo lower compartment.
– Predelivery box #2
– GPS.



tbl2011-001-017

11. On CE models, remove mirrors from the glove box.

12. Cut the front and rear of crate base.



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FRONT OF VEHICLE



tbl2011-001-056

REAR OF VEHICLE

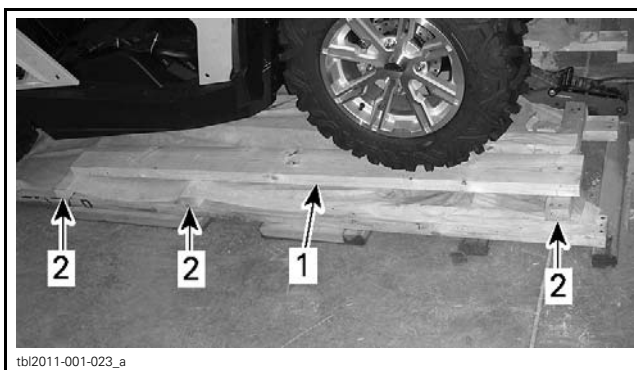
13. Prepare 4 pieces of wood:

- 2 pieces of 2x6 by 1.78 m (70 in)
- 2 pieces of 2x6 by 1.27 m (50 in)

14. Install the jack under a frame member, in line with a suspension arm.

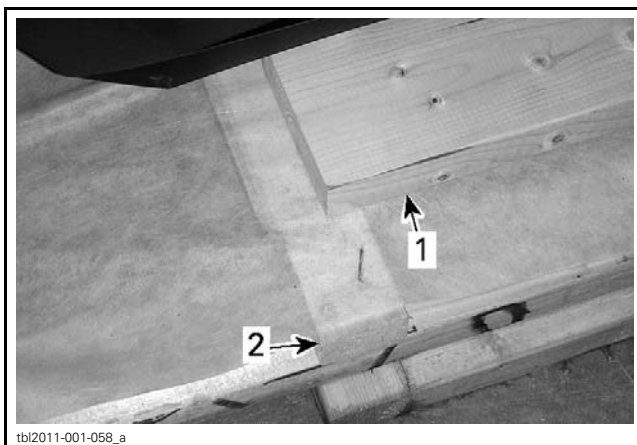


15. Lift the front of vehicle just enough to place the pieces of wood (1.78 m (70 in)) between wheel and base crate, as illustrated below.



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.



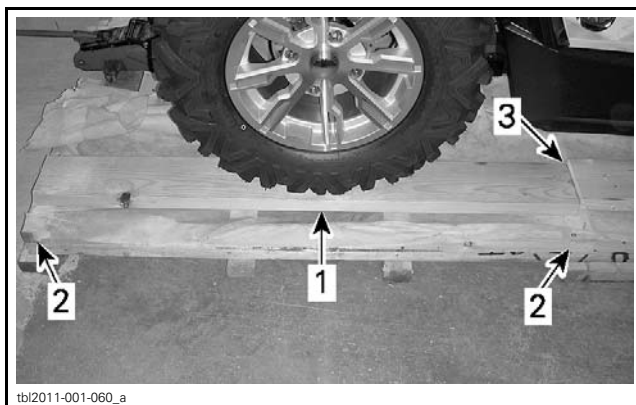
1. 2x6
2. Crate braces

16. Lower the front of the vehicle and repeat the procedure at the rear.

- 16.1 Place the jack under the hitch to lift the rear of the vehicle.



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



1. 2x6 by 1.27 m (50 in)
2. Crate braces
3. Pieces of wood end to end

17. Lower the vehicle.

18. Place the shift lever on N position and carefully move the vehicle **forward** out of the crate base.

19. 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.

PARTS	LOCATION	QTY
Roof middle section	On top of cargo box	1
Rear wind screen	In the cargo box	1
Predelivery box #1	In the cargo box	1
Half windshield	Inside vehicle, on seats	1
Sport visor	Inside vehicle, on seats	1

PARTS	LOCATION	QTY
Predelivery box #2	Inside lower cargo box	1
GPS	Inside lower cargo box	1
Predelivery box #3 (CE models only)	In the cargo box	1
Mirrors (CE models only)	Inside glove box	1

PREDELIVERY BOX #1

PARTS	QTY
Predelivery kit (fasteners)	1
Shoulder guard	2

PREDELIVERY BOX #2

PARTS	QTY
Front shock absorber	2
Rear shock absorber	2
Rear speaker	2
Half windshield installation kit	1
Roof middle section installation kit	1
Sport visor installation kit	1
Rear speaker installation kit	1

PREDELIVERY BOX #3 (CE MODELS ONLY)

PARTS	QTY
Mudguards kit	1

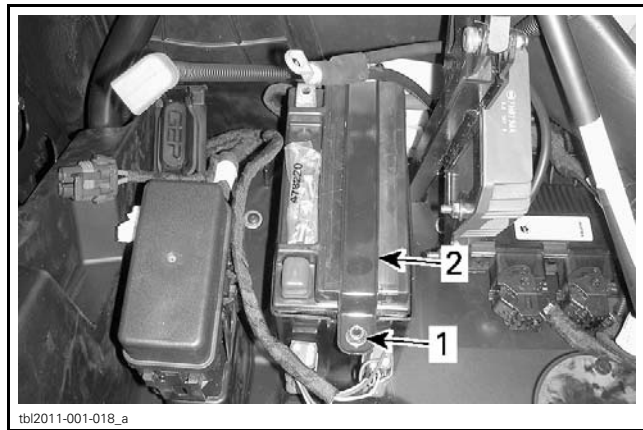
Battery

Battery Removal

⚠ WARNING

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

1. 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 latest *CAN-AM SIDE-BY-SIDE VEHICLES BATTERIES ACTIVATION, CHARGING AND MAINTENANCE BULLETIN* for proper activating, charging and maintenance procedure.

Battery Installation

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

1. Install the battery in its rack. Make sure to position the negative post upwards.
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 using provided screw and nut.
4. Connect the BLACK (-) lead on the top post.

Shock Absorbers Installation

Shock Absorbers Identification


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

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

FRONT SHOCK ABSORBER

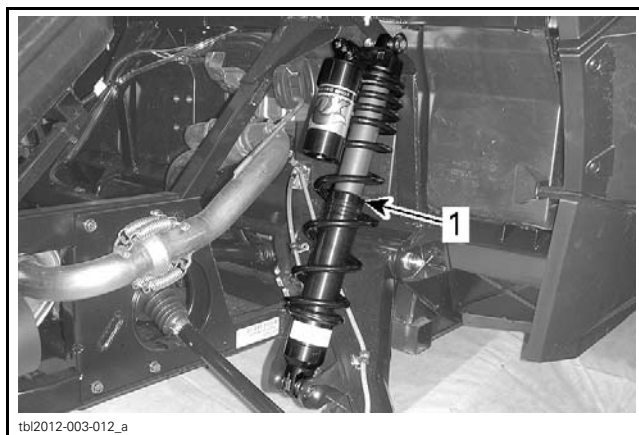
Shock absorber with a short air hose on reservoir side



REAR SHOCK ABSORBER	
Shock absorber with a 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 with the reservoir rearwards.

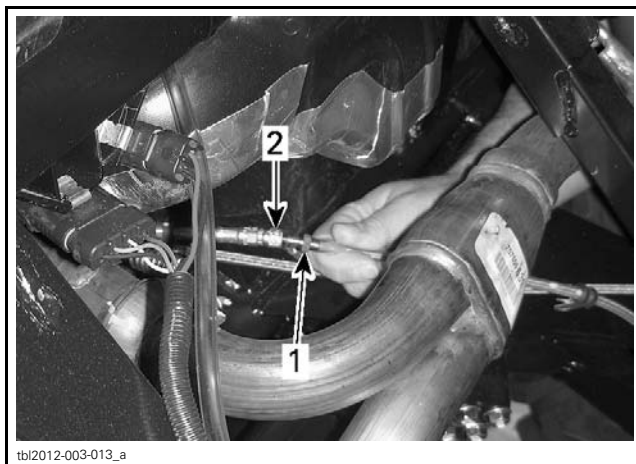


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TYPICAL – RH REAR SHOCK ABSORBER

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

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

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

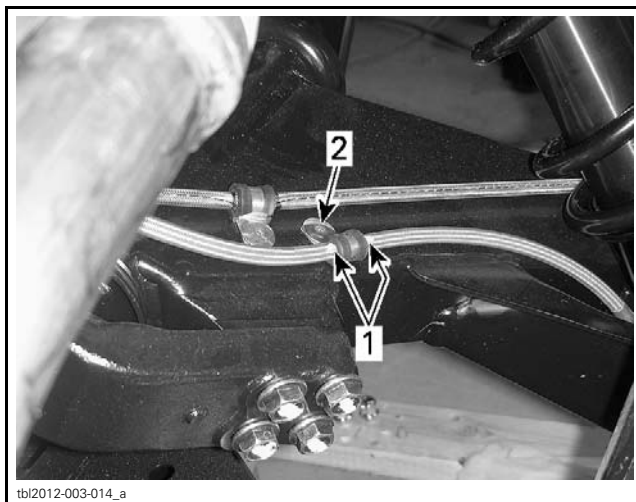


tbi2012-003-013_a
TYPICAL
1. RH shock absorber hose
2. Vehicle air supply hose

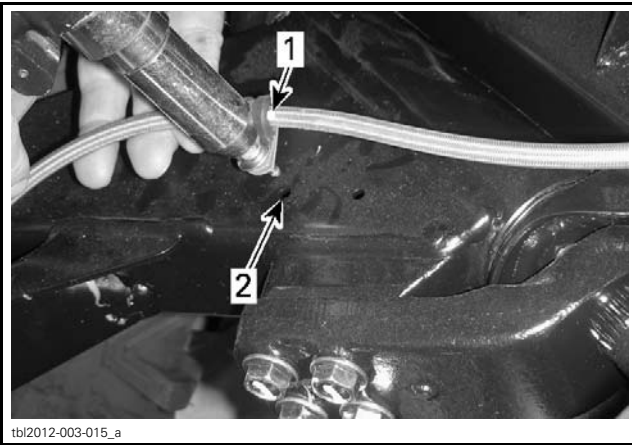
TORQUE	
Air supply hose	6 N•m (53 lbf•in)

10. Secure shock absorber hoses to trailing arms. Ensure to position hose clamp between YELLOW dots.

PDI KIT PARTS	QTY
Rivets	2



tbi2012-003-014_a
RH SIDE OF VEHICLE
1. YELLOW dots
2. Rivet from PDI kit



LH SIDE OF VEHICLE
 1. YELLOW dot
 2. Install the rivet in this hole

11. Clean brake disc. Use the XPS BRAKES AND PARTS CLEANER (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.

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

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



TYPICAL

15. Close the cargo box.

Front Shock Absorber

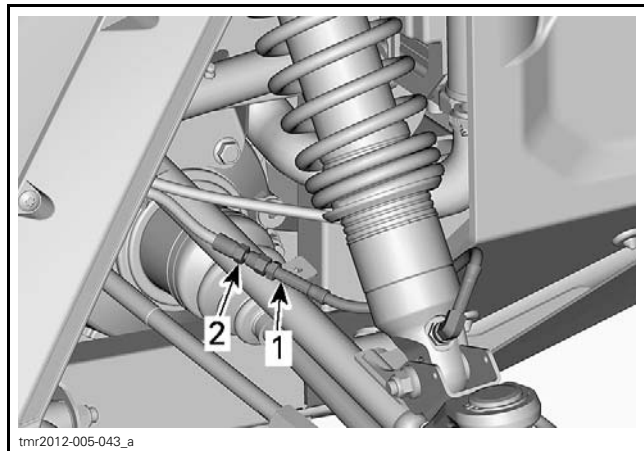
1. Block rear wheels.

- 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.
- 5. Remove the suspension brackets. Discard bolts and nuts.
- 6. Install the front shock absorbers.
 - 6.1 Install shock absorbers with the reservoir outwards.
 - 6.2 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)

- 6.3 Route the hoses in front of the shock absorbers.
- 6.4 Connect the shock absorber hoses to vehicle air supply hoses.

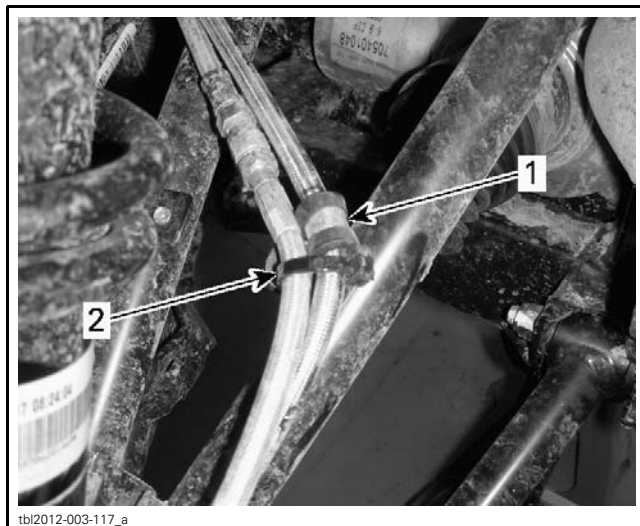


TYPICAL – RH SIDE SHOWN
 1. Shock absorber hose
 2. Vehicle air supply hose

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

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

PDI KIT PARTS	QTY
Locking ties	2



tbi2012-003-117_a

TYPICAL – RH SIDE SHOWN

1. Brake hose retaining clamp
2. Locking tie

7. Clean brake disc. Use the XPS BRAKES AND PARTS CLEANER (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.

8. Install front wheels.
9. Lower the vehicle.
10. Tighten wheel lug nuts.

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



tbi2012-003-016_a

TYPICAL

Cage Installation

1. Assemble the cage.

PDI KIT PARTS	QTY
M10 x 30 TORX screws	4

NOTE: DO NOT TIGHTEN screws until installation.

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

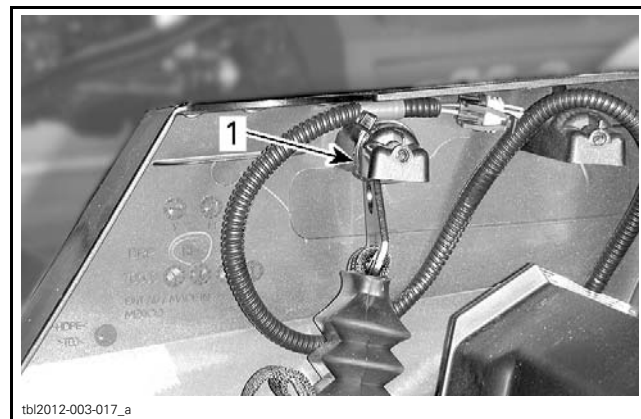


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LH SIDE OF VEHICLE SHOWN

1. Support plate

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



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LH SIDE OF VEHICLE 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, 1 person at each attachment point can position the cage on the vehicle.

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



tbi2011-0011-024

TYPICAL

6. Secure the cage to vehicle.

PDI KIT PARTS	QTY
M10 x 30 TORX screws	8



tbi2011-001-045

TYPICAL – RH FRONT CAGE ATTACHMENT POINT



tbi2011-001-046_a

TYPICAL – RH REAR CAGE ATTACHMENT POINT

1. M10 x 30 TORX screws

7. 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	48 N•m (35 lbf•ft)

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



tbi2011-001-047_a

TYPICAL

1. Push nuts

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

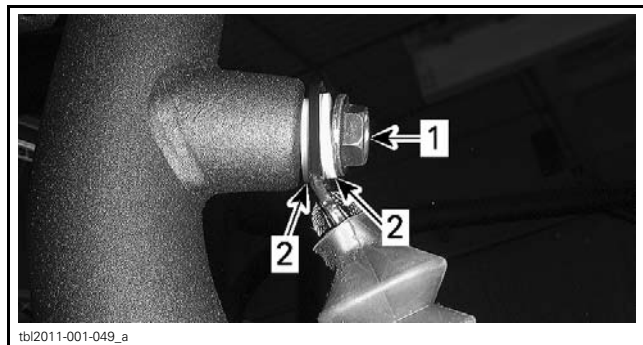
Seat Belts Installation (All except CE Models)

NOTE: Gearbox oil level verification should be performed at this moment to facilitate access. See procedures in *FLUIDS*.

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.

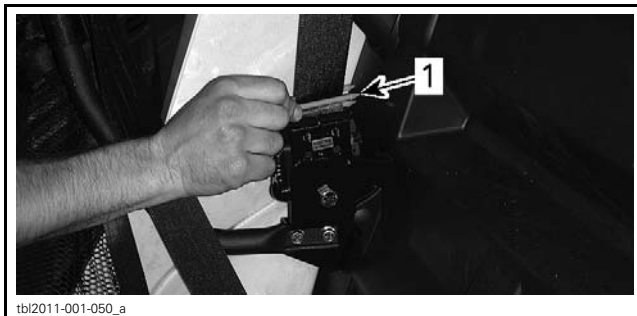


tbi2011-001-049_a

1. Shoulder bolt
2. Nylon flat washer

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

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



tbl2011-001-050_a

1. ORANGE belt lock

Seat Belts Installation (CE Models)

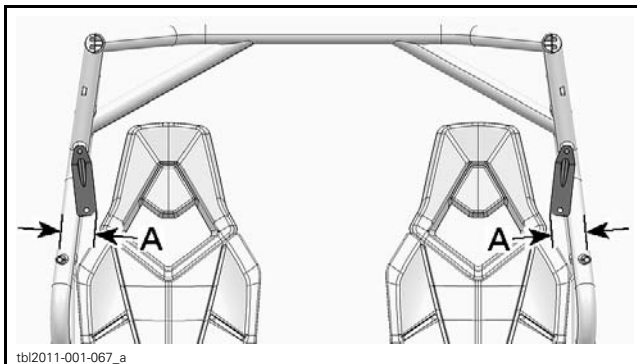
NOTE: Gearbox oil level should be performed at this moment to facilitate access. See procedures in *FLUIDS*.

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.



tbl2011-001-067_a

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 drive belt.



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1. Remove and discard this elastic

Shoulder Guards installation

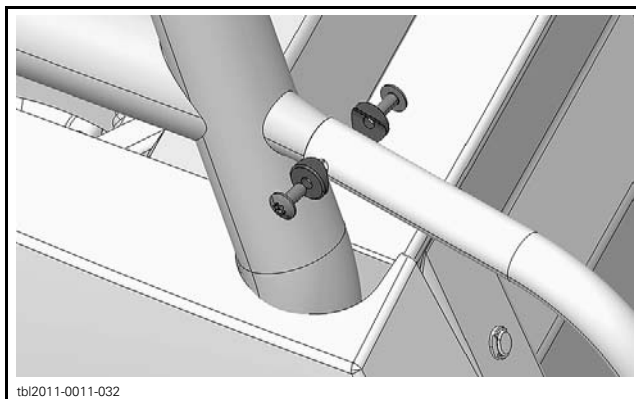
1. Slide shoulder guard into lateral net hoops.



tbl2011-0011-030

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

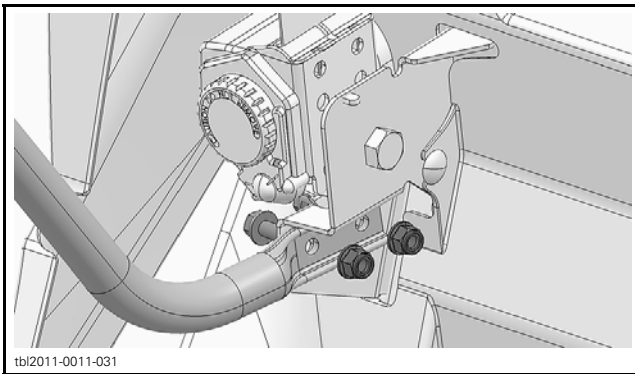
PDI KIT PARTS	QTY
M6 x 14 TORX screws	2
Support washers	2



tbl2011-0011-032

- 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



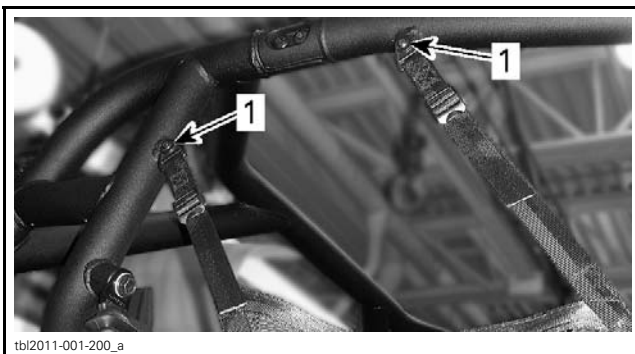
Lateral Nets Installation

1. Buckle the lateral net.



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

PDI KIT PARTS	QTY
M5 x 14 TORX screws	4



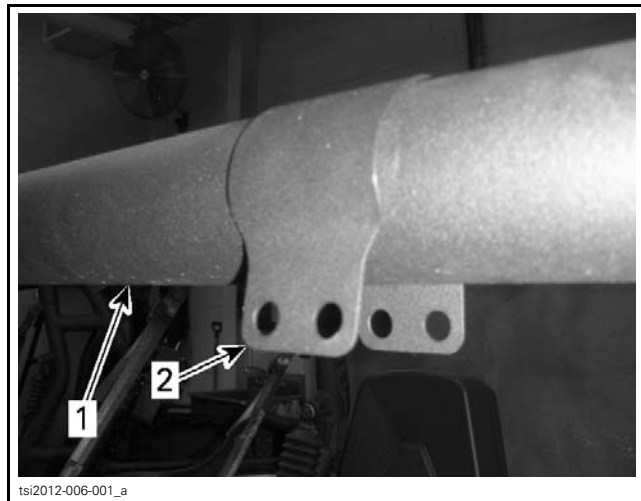
1. M5 x 14 TORX screws

3. Adjust the length of the lateral net straps.

4. Buckle off the lateral net.

Central Mirror (CE Models Only)

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



1. Front transversal cage tube
2. 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.

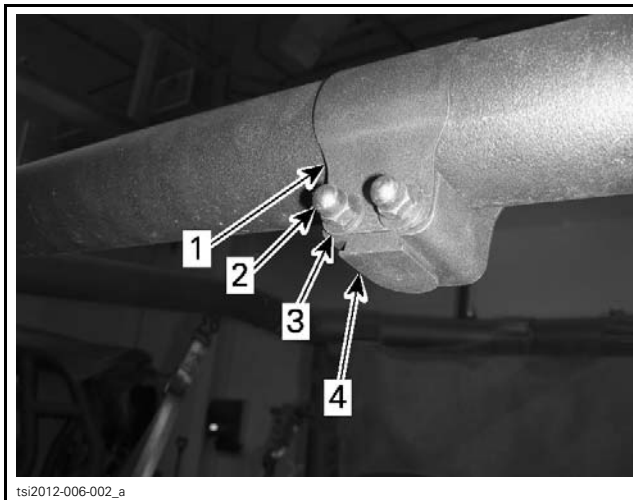
5. Install the second M6 X 45 Torx screw with a flat washer and a cap nut.

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
2. Cap nut
3. 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)



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INSTALLING THE MIRROR

Sport Visor

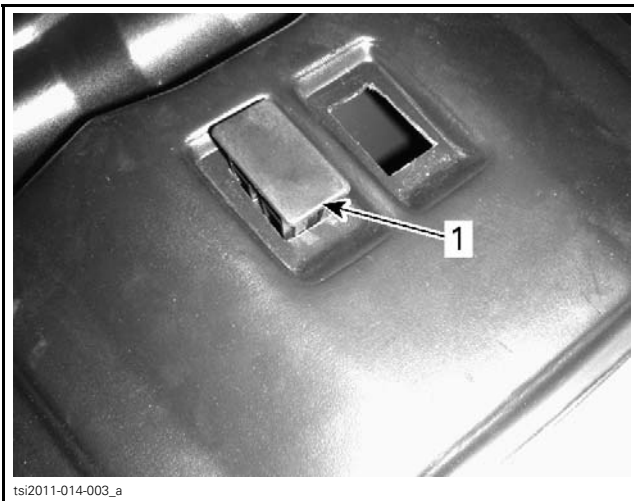
REQUIRED PARTS	QTY
Sport visor	1
Sport visor installation kit (from predelivery box #2)	1

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



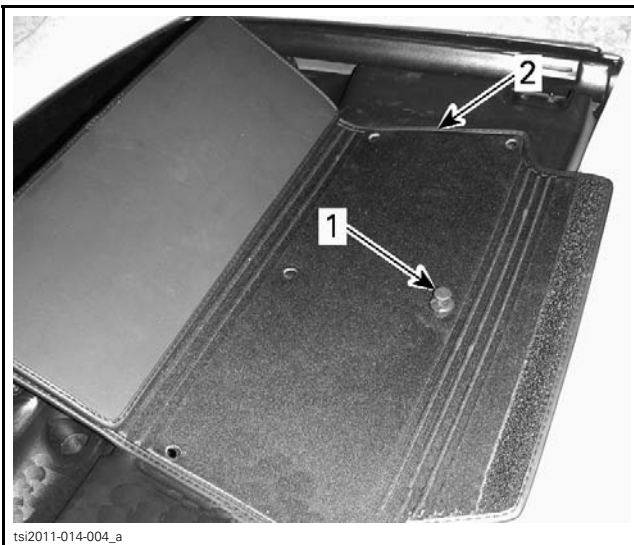
tsi2011-014-002

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.

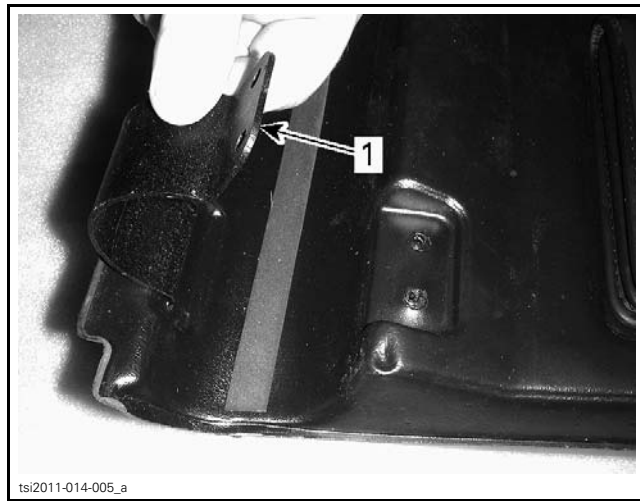


1. Plastic rivet.
2. Visor pocket

4. Install foam gasket on all rounded sections, previously cleaned with isopropyl alcohol, where sport visor will be in contact with cage tubes.

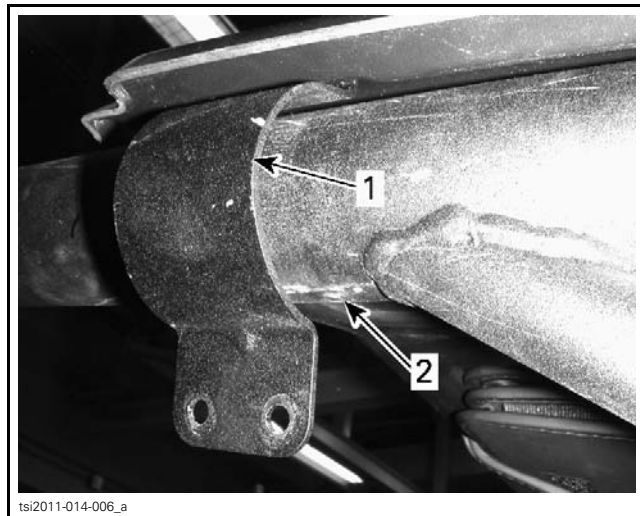
5. Install sport visor onto vehicle.

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)

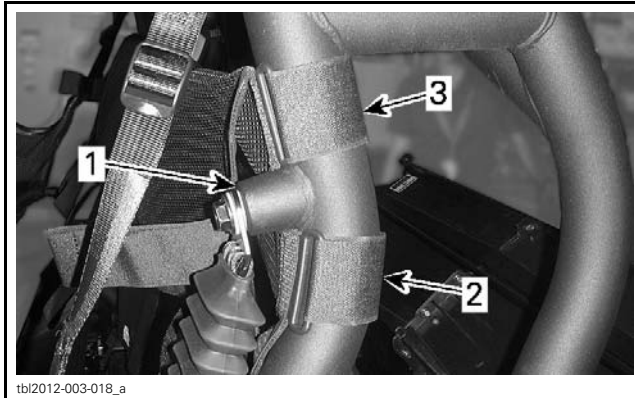
Rear Wind Screen

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

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

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

REQUIRED PARTS	QTY
Roof middle section	1
Roof middle section installation kit (from predelivery box #2)	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.



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.



1. Strap toward outside for rear section
2. Strap toward inside for front section

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

- 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)

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

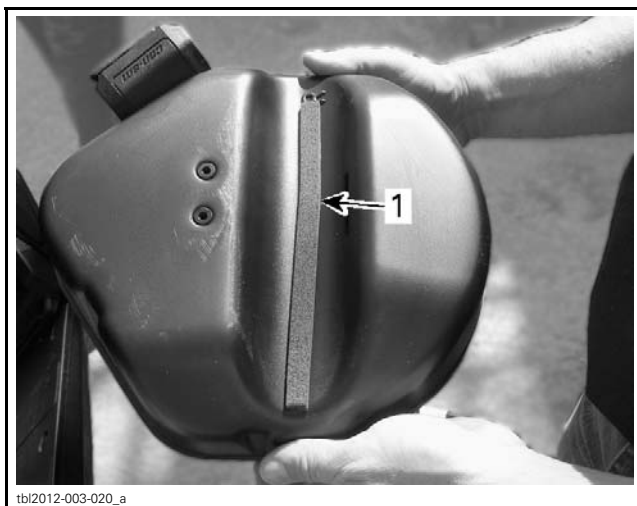
Rear Speakers

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

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

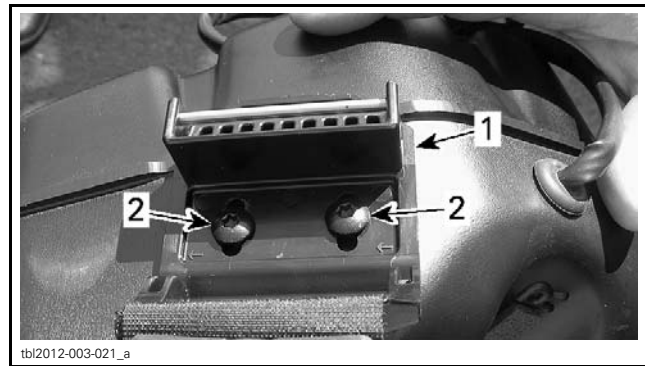
SPEAKER LETTER	POSITION
L	Left side
R	Right side

- 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

- 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

- 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 (4 lbf•in)

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

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

- Attach the strap around cage tube

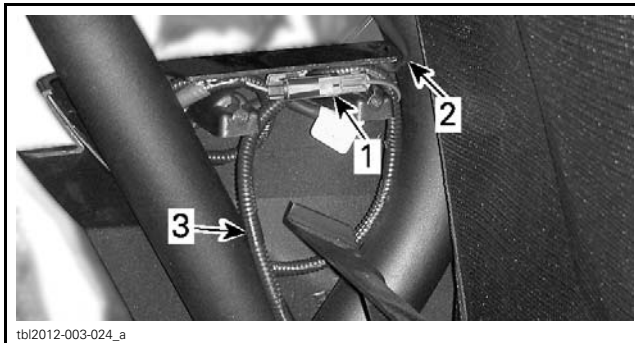


- Route the rear speaker harness along the cage tube and secure it using rear wind screen straps.



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.



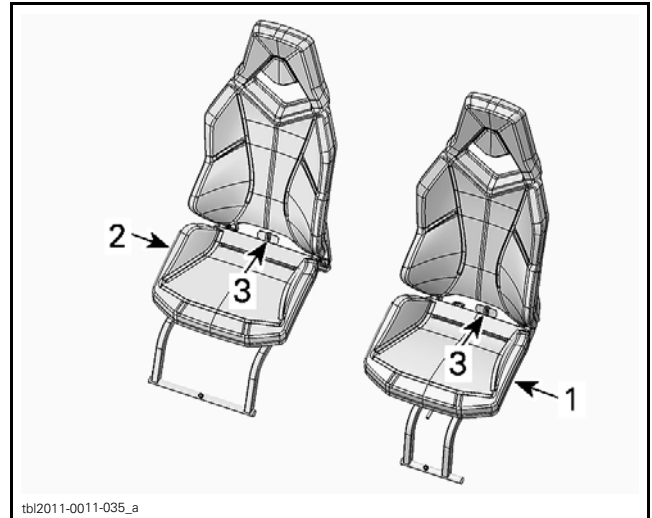
1. Connectors between posts
2. Rear speaker harness
3. Vehicle harness

10. Reinstall support plate using previously removed K50 x 16 Torx screws.

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.

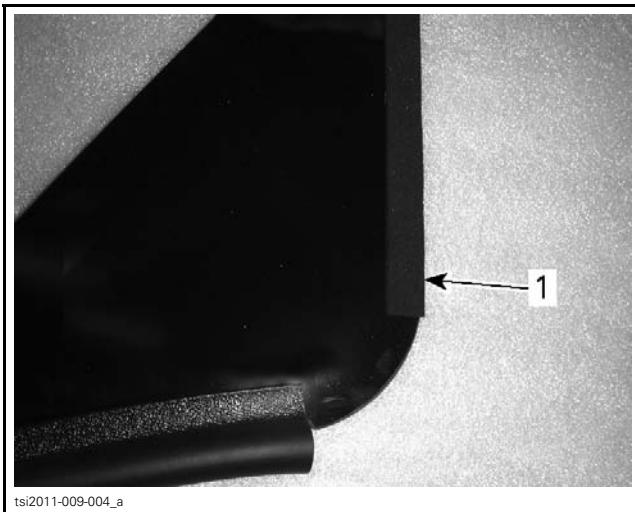
Loosen retaining screws and reposition the seat latch pin.



Half Windshield

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



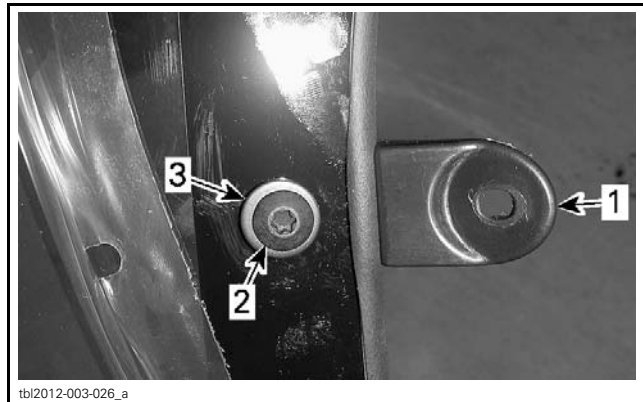
1. Neoprene seal

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

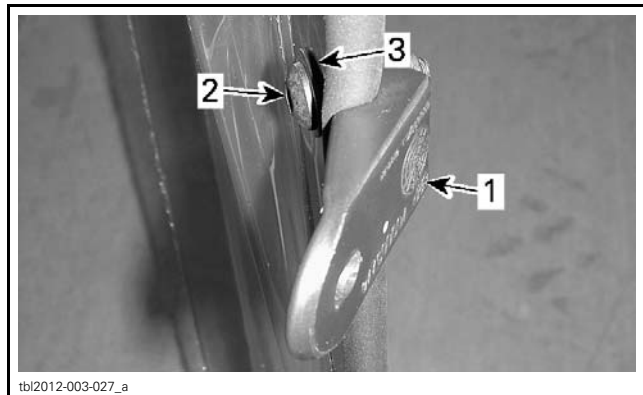


5. Install windshield supports at the bottom of windshield as per the following illustrations.
- NOTE:** Ensure windshield support is properly seated against windshield.

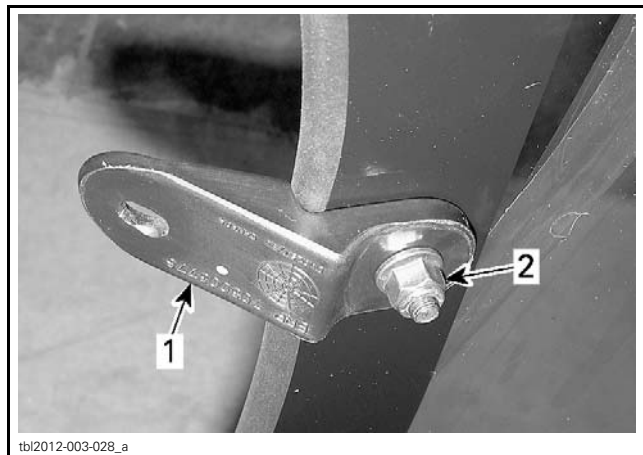
TORQUE	
M6 x 25 Torx screws	Hand torque



- OUTSIDE FACING UP**
1. Windshield support
 2. M6 x 25 Torx screw
 3. Stainless steel washer

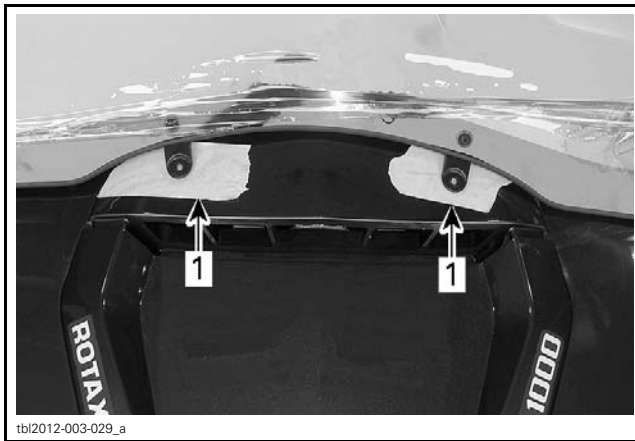


1. Windshield support
2. M6 x 25 Torx screw
3. Stainless steel washer



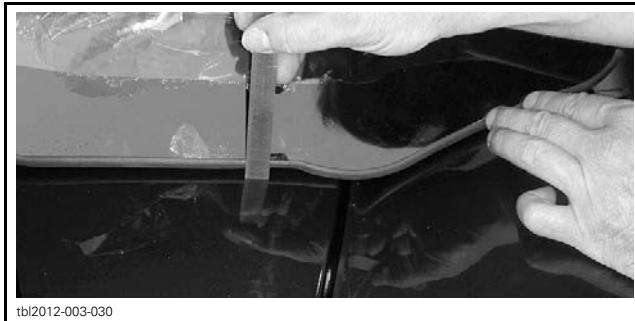
- INTERIOR FACING UP**
1. Windshield support
 2. M6 elastic flange nut

6. Install the windshield on vehicle.
 - 6.1 Install a piece of masking tape under each windshield support to avoid scratching the hood.



1. Pieces of masking tape

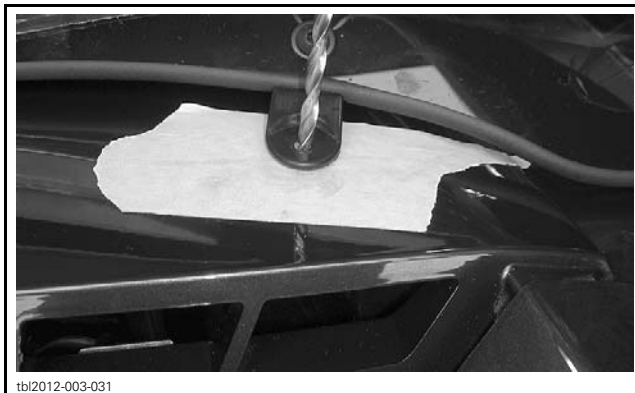
6.2 Position the bottom of windshield at 7 mm to 10 mm (9/32 in to 3/8 in) from hood.



tbi2012-003-030

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.



tbi2012-003-031

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

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



tbi2012-003-032

7. Secure half windshield using the four straps.

8. Remove the plastic protective film from the windshield.

LH Mirror (CE Models Only)

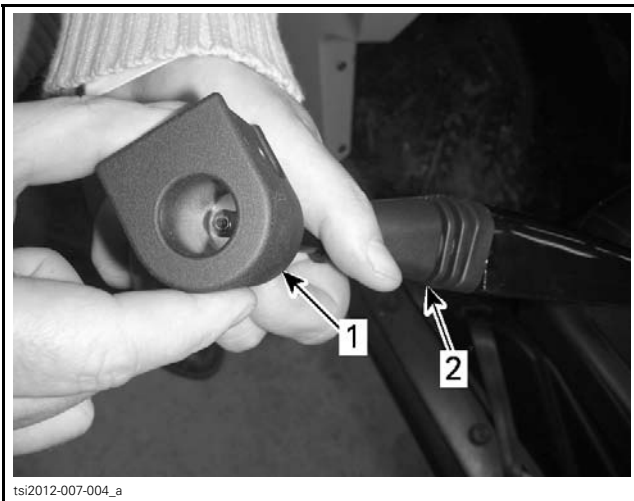
1. Remove and keep nut from the bottom of the LH mirror assembly pivoting pole.



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REMOVE NUT FROM LH MIRROR ASSEMBLY

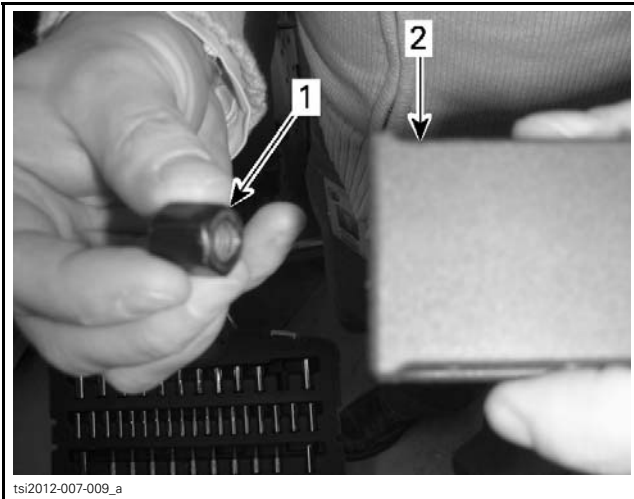
2. Insert LH mirror assembly pivoting pole into mirror bushing.



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INSERT LH MIRROR ASSEMBLY PIVOTING POLE INTO MIRROR BUSHING

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



tsi2012-007-009_a

INSERT PREVIOUSLY REMOVED NUT INTO MIRROR BUSHING

1. Previously removed nut
2. Mirror bushing

NOTE: Make sure nut is oriented properly.



tsi2012-007-005_b

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.



tsi2012-007-003_b

TIGHTENED MIRROR BUSHING INTO MIRROR COLLAR

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



tsi2012-007-007_a

MIRROR PIVOT TOWARDS THE REAR

8. From outside of vehicle, insert a M6 X 45 Torx screw and secure with a cap nut and a flat washer 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)



tsi2012-007-006

TIGHTEN RETAINING SCREW

10. Adjust mirror angle.



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LH SIDE MIRROR INSTALLED

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

TORQUE	
Mirror bushing nut	15 N•m (133 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 them. However, 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 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 BLEND OIL (SUMMER GRADE) (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.

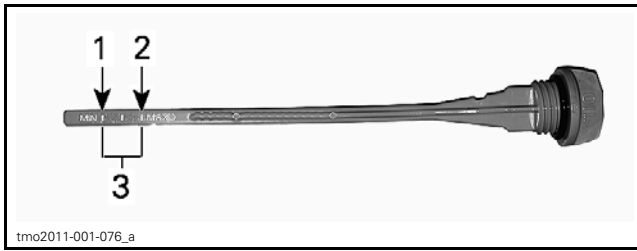
Engine Oil Level Verification

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
- 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's upper mark.

NOTE: Do not overfill. Wipe off any spillage.

Properly tighten dipstick.

Gearbox Oil

Recommended Gearbox Oil

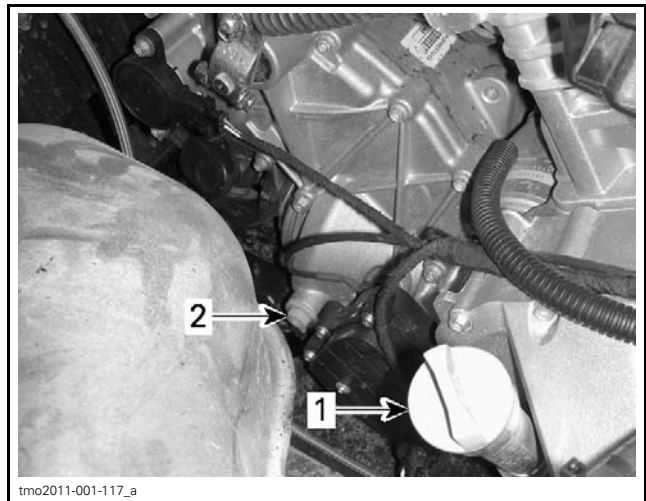
GEARBOX OIL	
BRP recommended product	XPS SYNTHETIC GEAR OIL (75W 140) (P/N 293 600 140)
Alternative if not available	75W 140 synthetic gear oil

NOTICE Do not use another type of oil when servicing.

Gearbox Oil Level Verification

Remove the RH lateral console panel and the fuel tank cover.

Check the gearbox oil level by removing the gearbox oil level plug.



- 1. Engine oil dipstick
- 2. Gearbox oil level plug

The oil should be level with the bottom of the oil level hole.

NOTICE Operating the gearbox with an improper oil level may severely damage gearbox.

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)

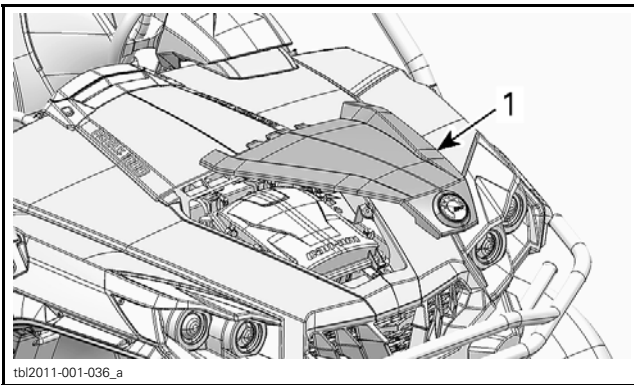
NOTICE Always use ethylene-glycol antifreeze containing corrosion inhibitors specifically for internal combustion aluminum engines.

Engine Coolant Level Verification

WARNING
Check coolant level with engine cold.

Place vehicle on a level surface.

Open service cover.



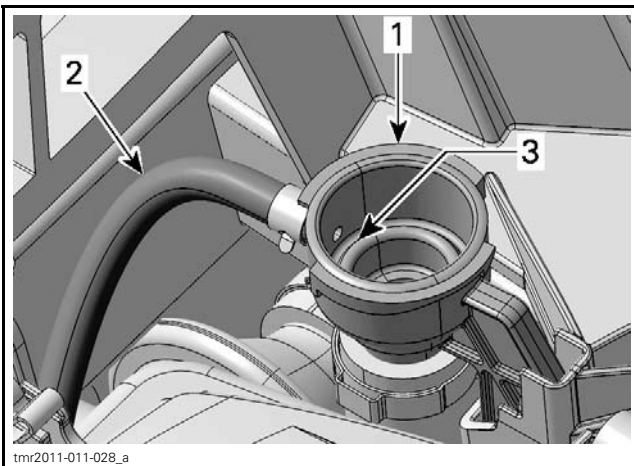
1. Service cover

Remove pressure cap.



1. Air filter housing cover
2. Coolant expansion tank cap
3. Pressure cap

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

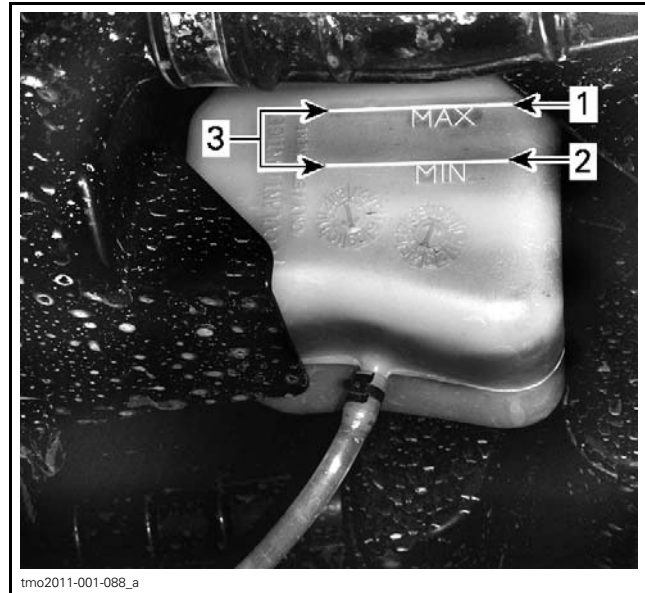


1. Cooling system refill adapter
2. Expansion tank hose
3. Coolant system full level (pressure cap seat)

Add coolant in system if necessary.
Reinstall pressure cap.

Check coolant level in expansion tank

NOTE: Coolant level can be checked by looking at the side of the coolant expansion tank under the RH front fender.



COOLANT EXPANSION TANK

- 1. MAX level
- 2. MIN level
- 3. Operating range

Ensure coolant is full up to **MIN** mark. Use a funnel to avoid spillage. **Do not overfill.**

Add coolant in system if necessary.

Reinstall service cover.

Brake Fluid

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

Recommended Fluid

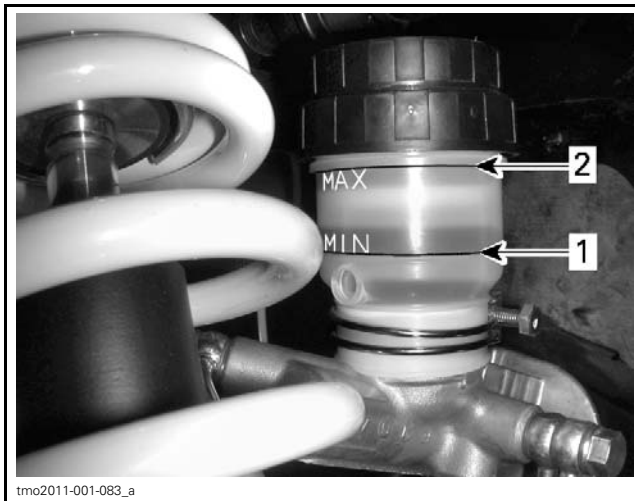
Always use brake fluid meeting the specification DOT 4 only.

⚠ WARNING

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

Brake Fluid Reservoir Level Verification

With vehicle on a level surface, check brake fluid in reservoir for proper level. Brake fluid level should be between MIN and MAX marks.



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TYPICAL
 1. MIN
 2. MAX

Adding Brake Fluid

Clean filler cap before removing.
 Add fluid as required. **Do not overfill.**
 Reinstall the filler cap

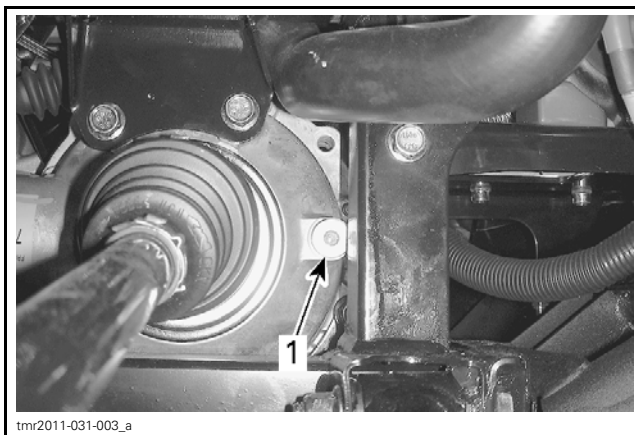
Front Differential

Front Differential Recommended Oil

FRONT DIFFERENTIAL OIL	
BRP recommended product	XPS SYNTHETIC GEAR OIL (75W 90) (P/N 293 600 043)
Alternative if not available	75W 90 API GL5 synthetic oil

Front Differential Oil Level

Clean filler plug prior to checking oil level.



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FRONT RIGHT SIDE OF VEHICLE
 1. Filler plug

With vehicle on a level surface, check oil level by removing filler plug. Oil level must reach the lower edge.

Reinstall filler plug.

TORQUE	
Filler plug	22.5 N•m ± 2.5 N•m (17 lbf•ft ± 2 lbf•ft)

Rear Final Drive Oil

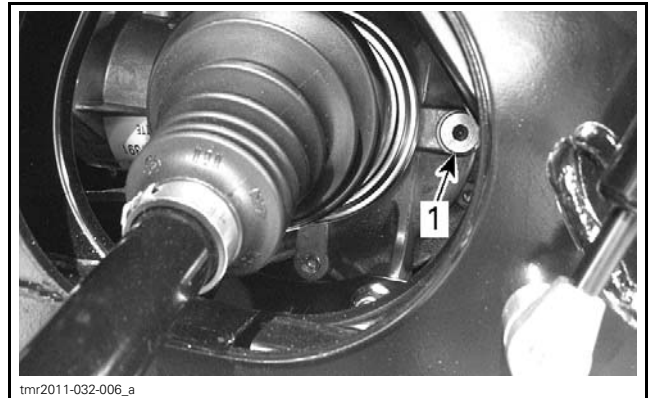
Rear Final Drive Recommended Oil

REAR FINAL DRIVE OIL	
BRP recommended product	XPS SYNTHETIC GEAR OIL (75W 140) (P/N 293 600 140)
Alternative if not available	75W 140 API GL5 synthetic oil

Rear Final Drive Oil Level Verification

NOTE: The rear final drive oil is not level with the filler hole.

1. Park vehicle straight on a level surface.
2. Clean filler plug.
3. Remove filler plug.

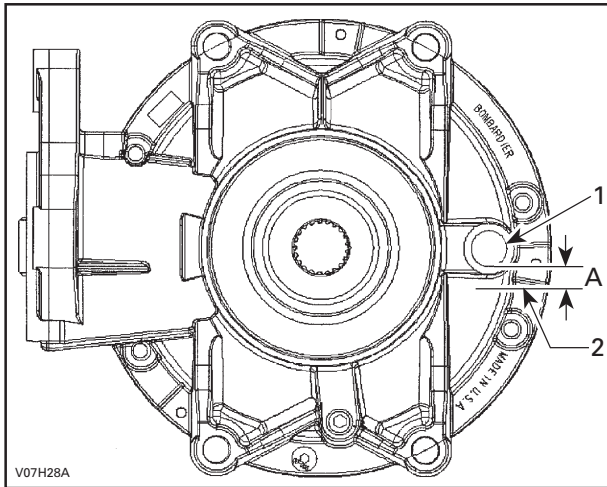


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LH REAR SIDE OF VEHICLE
 1. Filler plug

4. Check rear final drive oil level by inserting a wire with a 90° bend through oil filler hole. Oil level is below filler plug hole.

OIL LEVEL
20 mm ± 5 mm (9/16 in ± 3/16 in)



TYPICAL

- 1. Filler plug
- 2. Oil level

A. 20 mm ± 5 mm (9/16 in ± 3/16 in)

- 5. If necessary, add recommended oil.
- 6. Install filler plug.

TORQUE	
Filler plug	22.5 N•m ± 2.5 N•m (17 lbf•ft ± 2 lbf•ft)

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 (30 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)

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 dash board on the driver's side. It is stored in it's 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's 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 it's holder (protective cap).
3. Connect one end of the MPI-2 diagnostic cable to the vehicle connector.

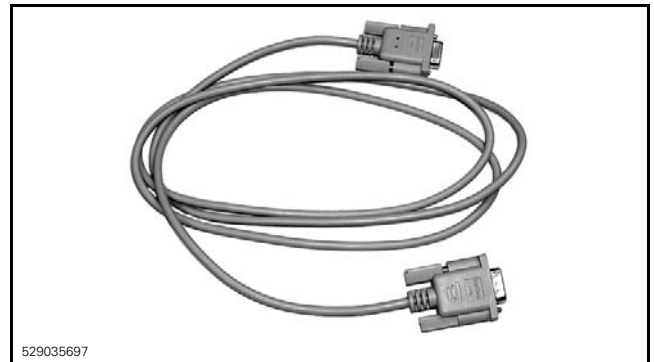


4. Connect the other end of diagnostic cable to the MPI-2 interface card.



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).

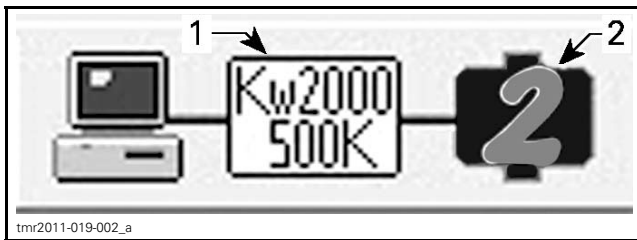


MPI-2 INTERFACE CARD CONNECTED TO USB PORT

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.

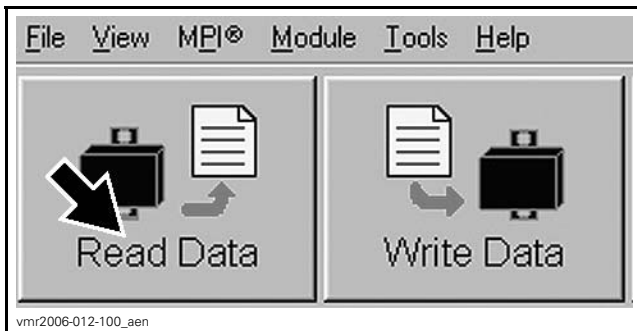
1. Turn ignition switch to ON using any of the key provided with the vehicle. **DO NOT** start the engine.
2. Start B.U.D.S. and logon.
3. Wait during detection setup.
4. Ensure the status bar shows the Kw2000 protocol and the appropriate number of modules to its right according to the vehicle model.



tmr2011-019-002_a
TYPICAL - SUCCESSFUL CONNECTION

1. Connection protocol
2. Number of modules read

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

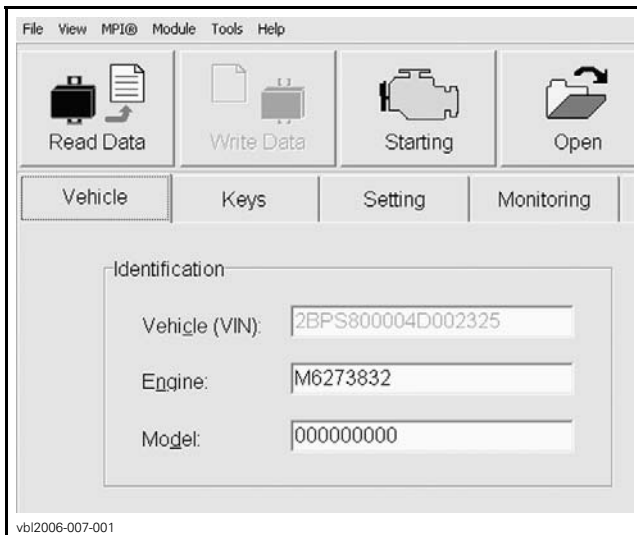


B.U.D.S. is now ready for edition, programming or for diagnostics.

Entering Customer's Name

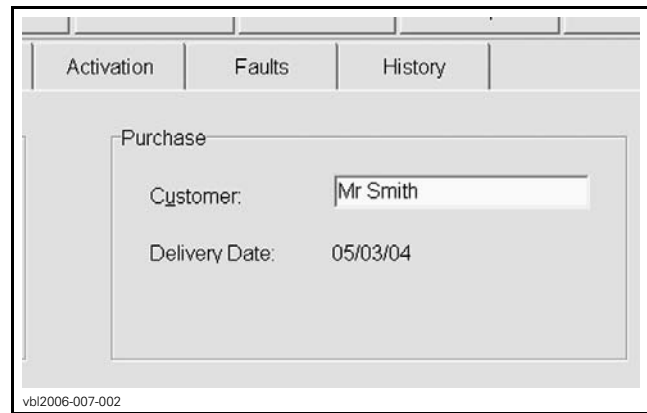
NOTE: When starting the vehicle, the multifunction display will show the name of the customer.

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



vb12006-007-001
VEHICLE TAB

2. Type the name of the customer.



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

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

Resetting Trip Hours and Trip Distance

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

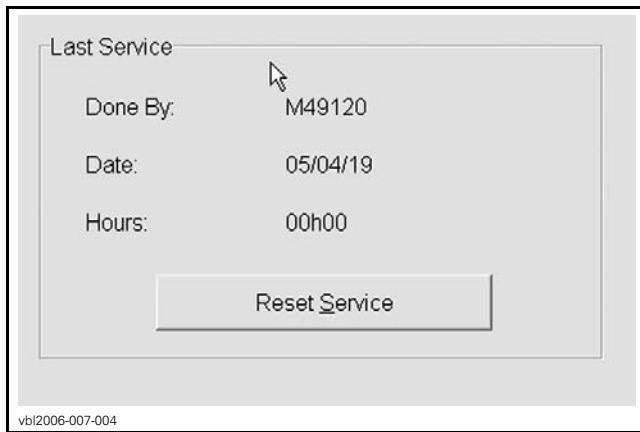


vb12008-007-001
RESET TRIP BUTTONS

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.

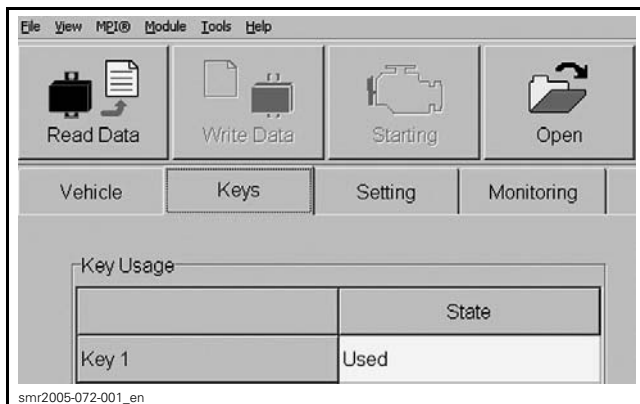


vb12006-007-004
RESET SERVICE BUTTON

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

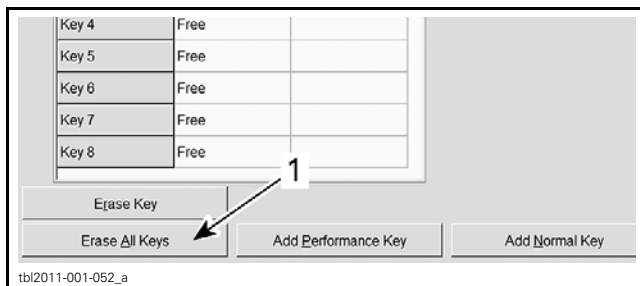
Programing Keys

1. Click on KEYS tab.



smr2005-072-001_en
KEYS TAB

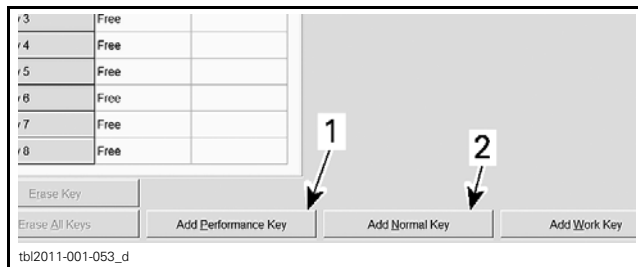
2. Click on ERASE ALL KEYS button.



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.

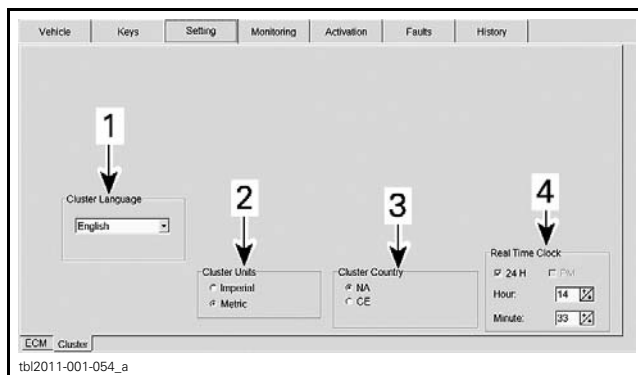
Language and Speedometer Reading

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.

Air Controlled Suspension (ACS)

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.

ASSEMBLY INSPECTION

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

1. Steering operation
2. Suspension arm ball joint cotter pins
3. 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 OFF-ROAD VEHICLE WASH (P/N 219 701 702).
5. Painted parts which are damaged should be properly repainted to prevent rust.

Delivery To Customer

Before Delivery the Vehicle

Complete the *PREDELIVERY CHECK LIST*.

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

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

MODEL		COMMANDER 1000 LTD
ENGINE		
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 ³ (59.56 in ³)	
Exhaust system	Spark arrestor approved by USDA Forest Service	
Air filter	Synthetic paper filter	
LUBRICATION SYSTEM		
Type	Wet sump. Replaceable oil filter	
Oil filter	BRP Rotax paper type, replaceable	
Engine oil	Capacity (oil change with filter)	2.2 L (2.3 qt (U.S. liq.))
	Recommended	For the summer season, use XPS 4-STROKE BLEND OIL (SUMMER GRADE) (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
COOLING SYSTEM		
Coolant	Type	Ethyl glycol/water mix (50% coolant, 50% water). Use BRP PREMIXED COOLANT (P/N 219 700 362) or coolant specifically designed for aluminum engines
	Capacity	4.25 L (1.12 U.S. gal.)
CVT TRANSMISSION		
Type	CVT (Continuously Variable Transmission)	
Engagement RPM	1800 RPM	
GEARBOX		
Type	Dual range (HI-LO) with PARK, neutral and reverse	
Gearbox oil	Capacity	450 ml (15 U.S. oz)
	Recommended	XPS SYNTHETIC GEAR OIL (75W 140) (P/N 293 600 140) or a 75W 140 synthetic gear oil
ELECTRICAL SYSTEM		
Magneto generator output	650 W	
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) (not adjustable)

MODEL		COMMANDER 1000 LTD	
ELECTRICAL SYSTEM (cont'd)			
Engine RPM limiter setting (forward)		8000 RPM	
Battery	Type	Dry battery type	
	Voltage	12 volts	
	Nominal rating	18 A•h	
	Power starter output	0.7 KW	
Headlights		4 x 60 W	
Taillight		8/26 W	
Fuses	Main	30 A	
	Accessories (main)	40 A	
	Speedometer/tail lamp	10 A	
	Ignition/injection/speed sensor	7.5 A	
	Engine control module (ECM)	5 A	
	4WD Actuator + winch	5 A	
	Key switch	5 A	
	Fan (fuse breaker)	25 A	
	European components	5 A	
	Headlamp	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 with iTC	
Fuel pump	Type	Electric (in fuel tank)	
Idle speed		1250 ± 100 RPM (not adjustable)	
Fuel	Type		Regular unleaded gasoline
	Minimum octane rating	Inside North America	87 (R+M)/2 or higher
		Outside North America	92 RON or higher
Fuel tank capacity		37.8 L (10 U.S. gal.)	
Remaining fuel in fuel tank when display light turns ON		± 12 L (3.2 U.S. gal.)	
DRIVE SYSTEM			
Drive system type		Selectable 2WD/4WD	
Front differential	Recommended oil	XPS SYNTHETIC GEAR OIL (75W 90) (P/N 293 600 043) or 75W 90 API GL5 synthetic oil	
	Oil capacity	500 ml (17 U.S. oz)	
	Type	Visco-lok front differential	
	Front drive ratio	3.6:1	
Rear final drive oil	Recommended oil	XPS SYNTHETIC GEAR OIL (75W 140) (P/N 293 600 140) or 75W 140 API GL5 synthetic oil	
	Oil capacity	350 ml (11.8 U.S. oz)	
	Type	Shaft driven/single differential	
	Rear drive ratio	3.6:1	
CV joint grease		CV GREASE (P/N 293 550 019)	
Propeller shaft grease		XPS SYNTHETIC GREASE (P/N 293 550 010)	

MODEL		COMMANDER 1000 LTD
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)		0.7° positive
FRONT SUSPENSION		
Suspension type		Double suspension-arm with dive-control geometry with ACS
Suspension travel		254 mm (10 in)
Shock absorber	Qty	2
	Type	HPG clicker with air
REAR SUSPENSION		
Suspension type		Torsional Trailing arm Independent (TTI) with external sway bar with ACS
Suspension travel		254 mm (10 in)
Shock absorber	Qty	2
	Type	HPG clicker with air
BRAKES		
Front brake	Type	Dual 214mm ventilated disc brakes with hydraulic twin-piston calipers
Rear brake	Type	Single 214mm ventilated disc brake with hydraulic twin-piston caliper
Brake fluid	Capacity	125 ml (4.2 U.S. oz)
	Type	DOT 4
Caliper		Floating
Brake pad material	Front	Metallic
	Rear	Metallic
Minimum brake pad thickness		1 mm (.039 in)
Minimum brake disc thickness	Front	3.5 mm (.138 in)
	Rear	4.3 mm (.169 in)
Maximum brake disc warpage		0.2 mm (.001 ft)
TIRES		
Pressure	Front	Maximum: 83 kPa (12 PSI) Minimum: 69 kPa (10 PSI)
	Rear	Maximum: 152 kPa (22 PSI) Minimum: 83 kPa (12 PSI)
Minimum tire thread depth		3 mm (.118 in)
Tire size	Front	27 X 9 X 14 (in)
	Rear	27 X 11 X 14 (in)

TECHNICAL SPECIFICATIONS

MODEL		COMMANDER 1000 LTD
WHEELS		
Type		Cast Aluminum
Rim Size	Front	14 X 7 (in)
	Rear	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 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)
	Rear	121.9 cm (48 in)
Ground clearance		27.9 cm (11 in)
LOADING CAPACITY AND WEIGHT		
Dry weight		587 kg (1,295 lb)
Weight Distribution (Front / Rear)		44 / 56
Cargo Box Capacity	Total	272 kg (600 lb)
	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		680 kg (1,500 lb)
Hitch support: 50.8 mm (2 in) x 50.8 mm (2 in)		CE Models: 270 kg (600 lb)
Tongue capacity		68 kg (150 lb) CE Models: 27 kg (60 lb)