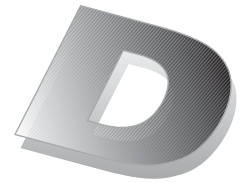




ATV
PREDELIVERY
Bulletin



Date: **July 12, 2007**

Subject: **Predelivery Inspection**

No. **2008-3**

REVISION 1 October 9, 2007 <=
(Can. / U.S. / Other country)

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2008	Outlander™	Refer to table on next pages for complete listing	All
	Renegade™ / ⇨ Renegade 800 X ⇩		

TABLE OF CONTENTS

	Page		Page
IMPORTANT NOTICE	2	Brake Lever Fluid Reservoir	19
MODEL LISTING	3	Recommended Coolant	19
UNCRATING	4	Coolant Level	19
Crate Cover	4	PROGRAMMING, USING B.U.D.S.	20
Hang Tag	4	Connecting PC to Vehicle	20
SET-UP	5	Initializing B.U.D.S.	22
Battery	5	Entering Customer's Name	23
Activating a Sealed VRLA Battery	6	Resetting Trip Hours and Trip Distance	24
Charging a Newly Activated Sealed VRLA Battery	8	Resetting Last Service	24
Sealed VRLA Battery Routine Charging	8	Programing Keys with B.U.D.S.	24
Battery Installation <=	9	Speedometer Reading	24
Front Bumper	11	Ending a B.U.D.S. Session	25
Winch Switch	11	Accessories Installation	25
Mirrors	11	DELIVERY TO CUSTOMER	25
Locking Device	11	Rear Suspension Adjustment	25
Backrest	11	Front Suspension Adjustment	25
Handlebar Guard	13	Vehicle Cleaning	26
Wind Deflector <=	14	Vehicle Delivery	26
Central Skid Plate <=	15	SPECIFICATIONS	26
FINAL PREPARATION	16	Technical Data — 400 / 400 XT	26
Brake Cleaning	16	Technical Data — 400 MAX / 400 MAX XT	28
Tires and Wheels	16	Technical Data — 500 / 500 XT	29
Headlights Aiming	16	Technical Data — 500 MAX / 500 MAX XT	31
Recommended Fuel	17	Technical Data — 650 / 650 XT	33
Fuel Level	17	Technical Data — 650 MAX / 650 MAX XT	35
Engine Oil Level	17	Technical Data — 800 / 800 XT	36
Gearbox Oil and Oil Level	18	Technical Data — 800 MAX / 800 MAX XT	38
Recommended Brake Fluid	18	Technical Data — 800 MAX LIMITED	40
Brake Fluid Level	18	Technical Data — RENEGADE	41

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 *PRE DELIVERY CHECK LIST* is completed and signed.

WARNING

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

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

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

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

The content of this bulletin is designed as a guideline only. All mechanics performing pre delivery 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 *Pre delivery Check List* for each vehicle and retain a customer-signed copy.

Make sure the customer receives the *Operator's Guide*, *Pre delivery 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.

MODEL LISTING

This *Pre-delivery Bulletin* covers all the following BRP Can-Am™ ATV models.

YEAR	MODEL	MODEL NUMBER		SERIAL NUMBER
2008	Outlander™ 400	Canada / United States	2D8A / 2D8C	All
		International	2D8E / 2D8F	
		CE	2D8H / 2D8J	
	Outlander 400 XT	Canada / United States	2E8A / 2E8B / 2E8C	
		International	2E8E	
		CE	2E8F	
	Outlander 400 MAX	Canada / United States	2F8B	
		International	2F8C / 2F8D	
		CE	2F8F / 2F8G	
	Outlander 400 MAX XT	Canada / United States	2G8A / 2G8B / 2G8C	
		International	2G8E	
		CE	2G8F	
	Outlander 500	Canada / United States	2T8A / 2T8C	
		International	2T8D / 2T8E	
		CE	2T8F	
	Outlander 500 XT	Canada / United States	2U8A / 2U8B / 2U8C / 2U8D	
	Outlander 500 MAX	Canada / United States	2W8C	
		CE	2W8D	
	Outlander 500 MAX XT	Canada / United States	2X8A / 2X8B / 2X8C / 2X8D	
	Outlander 650	Canada / United States	2N8A / 2N8C	
		International	2N8E / 2N8F	
		CE	2N8H / 2N8J	
	Outlander 650 XT	Canada / United States	2P8A / 2P8B / 2P8C / 2P8D	
		International	2P8E / 2P8G	
		CE	2P8F	
	Outlander 650 MAX	Canada / United States	2R8A / 2R8C / 2R7K	
		International	2R8D / 2R8E	
		CE	2R8F / 2R8G / 2R8H	
	Outlander 650 MAX XT	Canada / United States	2S8A / 2S8B / 2S8C / 2S8D	
		International	2S8E / 2S8G	
		CE	2S8F	
	Outlander 800	Canada / United States	2H8A / 2H8C	
		International	2H8E / 2H8F	
		CE	2H8H / 2H8J	
	Outlander 800 XT	Canada / United States	2J8A / 2J8B / 2J8C / 2J8D	
		International	2J8E	
CE		2J8F		
Outlander 800 MAX	Canada / United States	2K8A / 2K8C		
	International	2K8D / 2K8E		
	CE	2K8F / 2K8G / 2K8H		
Outlander 800 MAX XT	Canada / United States	2L8A / 2L8B / 2L8C / 2L8D		
	International	2L8E / 2L8G		
	CE	2L8F		

YEAR	MODEL	MODEL NUMBER		SERIAL NUMBER
2008	Outlander 800 MAX Limited	Canada / United States	2M8A	All
		International	2M8B	
		CE	2M8C	
	Renegade 800 STD	Canada / United States	4B8A	
		International	4B8B	
		CE	4B8C	
	➔ <u>Renegade 800 X</u>	<u>Canada / United States</u>	<u>4C8A</u>	
		<u>International</u>	<u>4C8B</u>	
		<u>CE</u>	<u>4C8C</u>	

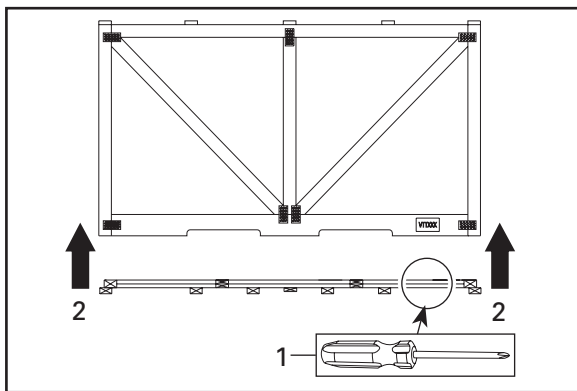
UNCRATING

Crate Cover

Model(s): All

- Carefully lay the crate on its bottom.

CAUTION: Allowing the crate to drop may cause serious damages to vehicle.



- Remove all screws [1] retaining crate cover to crate base.

NOTE: Screws that are used are Robertson† #2 type that require the use of an appropriate bit (Scrulox #2 from Snap-on†† Tools or ECAR.1 from Facom††† Tools).

- Assisted by another person, lift up crate cover [2].

NOTE: Do not tip cover toward the front or back of the vehicle. Raise cover vertically [2] from both ends at the same time.

- Remove protective wrapping from the vehicle.
- If applicable, remove boxes from crate base.

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

⚠ WARNING

No one should be standing in front or at the back of the vehicle while straps are being cut.

Model(s): All XT

- Remove handlebar guard box out of the crate.

Model(s): All MAX

- Remove backrest out of the crate.

Model(s): All International and CE

- Remove front bumper out of the crate.

Model(s): 650 and 800 CE

- Remove mirror and locking device box out of the crate.

Model(s): Renegade

- Remove and discard rubber protector on brake light lens.

Model(s): All

- Move vehicle out of the crate base.

Hang Tag

Model(s): All

This vehicle comes with a hang tag and labels containing important safety information.

The labels are considered permanent parts of the vehicle and should not be removed.

† Robertson is a registered trademark of Robertson Inc.

†† Snap-on is a trademark of Snap-on Inc.

††† FACOM is a brand of the International tools Group, subsidiary of FIMALAC.

Hang tag is to be removed by the owner only.

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

SET-UP

Battery

Model(s): ↗ Can and USA

CAUTION: Those vehicles are equipped with a dry type battery that requires no maintenance. An activation and charging of the new battery is necessary.

Model(s): Other Country models

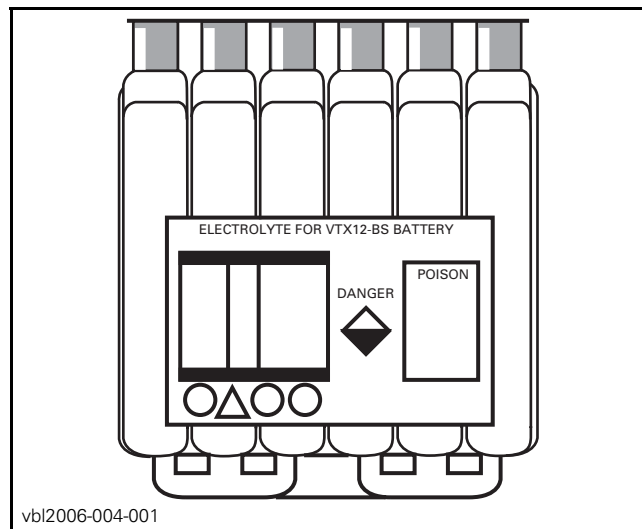
CAUTION: Those vehicles are equipped with a dry type battery that requires no maintenance. Since for those models the battery was already pre charge, refer to Charging a Newly Activated Sealed VRLA Battery section. ↖

Activating a sealed VRLA battery is easy, although a little different from conventional activation.

Here are a few things to keep in mind before starting:

- Store the battery in a cool, dry place out of direct sunlight.
- Do not remove the foil sheet covering the filler port until activation.
- After removing the electrolyte container cap strip, do not peel, pierce or otherwise open the sealed electrolyte receptacles. Do not separate the individual cells.

Read electrolyte handling instruction and precautions on the label.



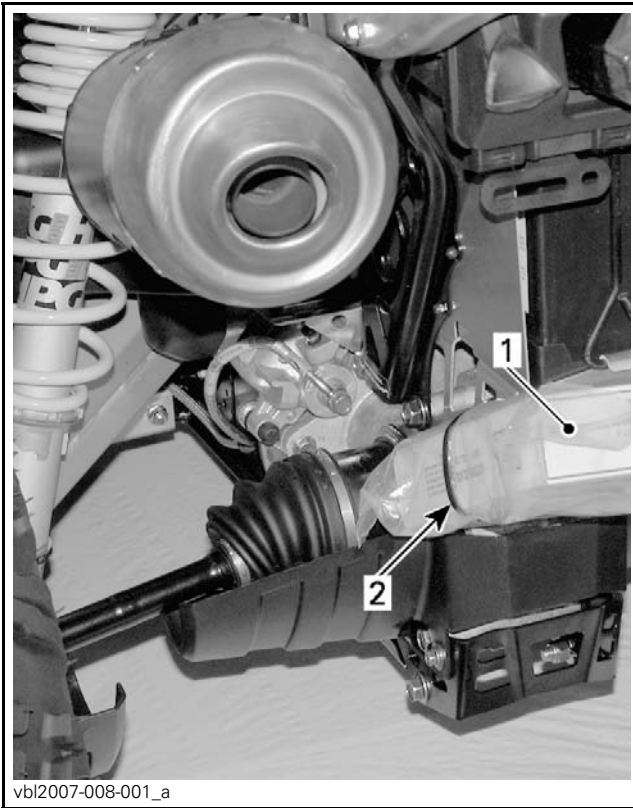
Use only the electrolyte container that comes with the battery. Sealed VRLA battery electrolyte is a higher concentration of sulfuric acid. All sealed VRLA battery electrolyte containers are not the same. Each contains the proper amount of electrolyte for its specific battery.

⚠ WARNING

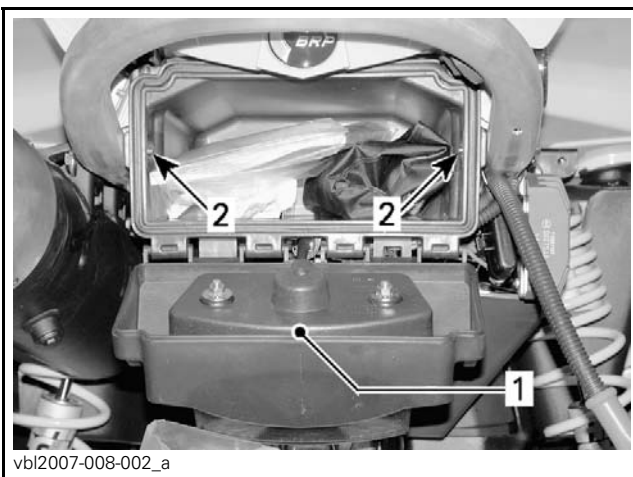
Always wear appropriate gloves and protective goggles. No Smoking. Do not forget safety precautions when storing or handling electrolyte solution.

Activating a Sealed VRLA Battery

Model(s): *Renegade*



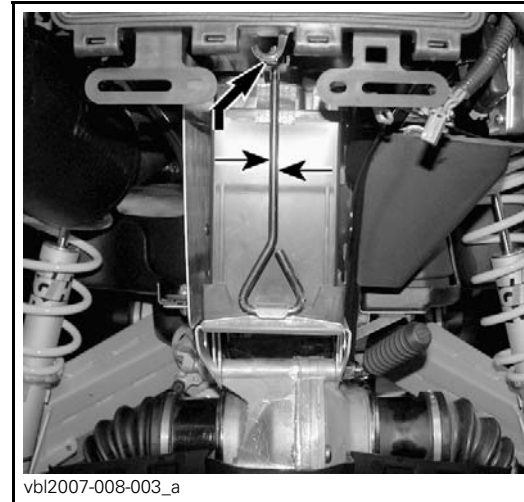
- Remove acid container box [1] from under glove compartment by cutting locking tie [2].



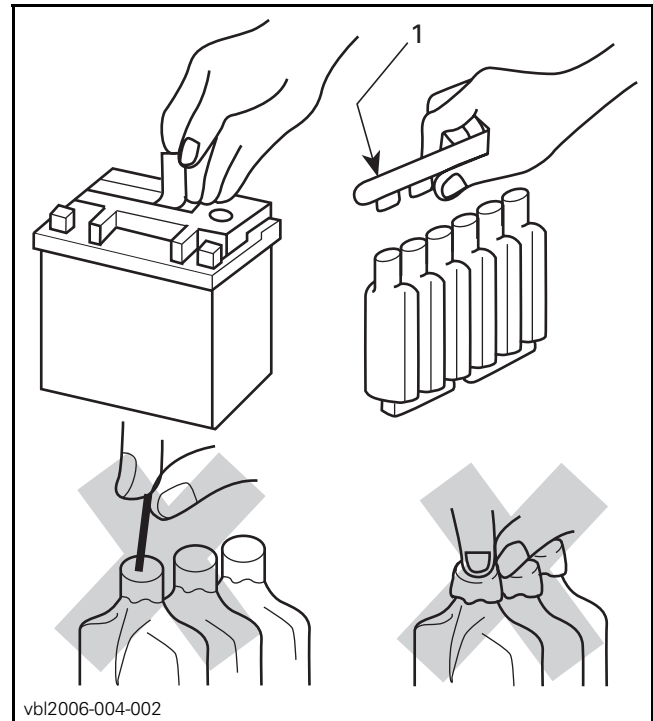
- Remove battery from vehicle as per following steps:
 - unplug and remove brake light/glove compartment door [1],
 - remove glove compartment by removing its side retaining bolts and nuts [2], (1 on each side, on bumper); pull out glove compartment.

NOTE: Inside glove compartment are the following items:

- Operator's Guide,
- Safety DVD,
- tool kit.

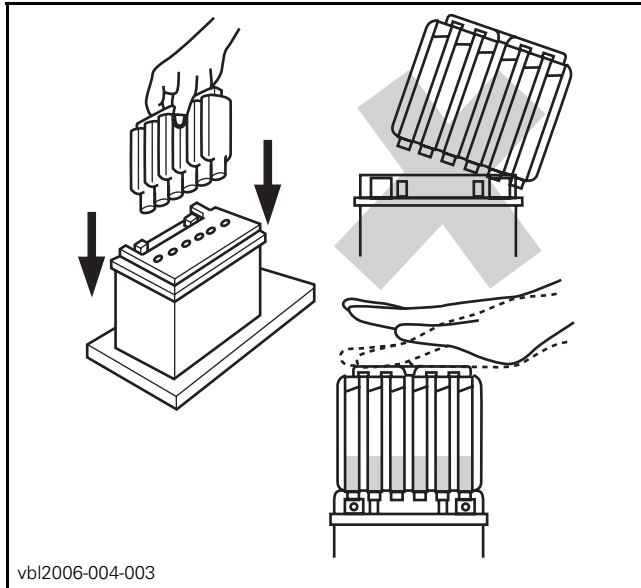


- Unscrew retaining rod and pull battery out of its rack.
- Place the battery on a level surface. Battery must be out of the vehicle.



- Remove electrolyte container from vinyl bag. Remove the strip of caps [1].
- Put the strip aside (will be used later as the battery sealing plug).

- Use only the dedicated container that comes with the battery.



- Place electrolyte container, sealed top of the cells down, into the filler ports of the battery.
- Hold the container level, push down to break the seals. You'll see air bubbles as the ports fill. Do not tilt or compress the electrolyte container.

⚠ WARNING

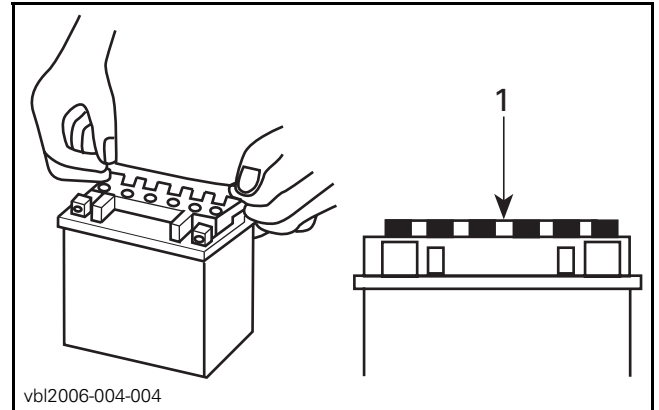
Improper activation or excessive over charging (possibly by equipment failure) could cause damage to the battery or vehicle by forcing acid out of the safety vent.

- Check the electrolyte flow. **Keep the container in place for 20 minutes or longer until it empties completely.** If no air bubbles are coming up from the filler ports, or if container cells have not emptied completely, tap the container a few times. Do not remove the container from the battery until it's empty. The battery requires all the electrolyte from the container for proper operation.
- Remove the container. This allows the electrolyte to permeate into the plates for optimum performance. Yuasa[†] sealed VRLA batteries have the amp hours printed right on the front of the battery.

For batteries 3 - 12 AH, let stand for at least 30 minutes.

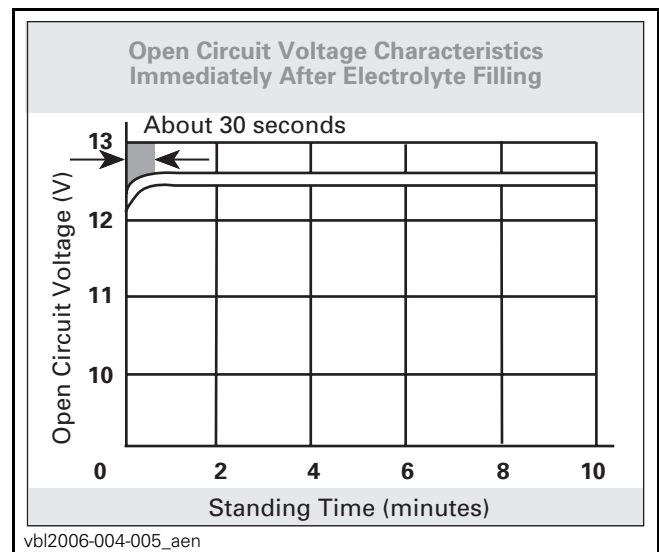
For batteries greater than 12 AH, allow the battery to stand a minimum of 1 HOUR.

NEWLY ACTIVATED SEALED VRLA BATTERIES REQUIRE AN INITIAL CHARGE. After adding electrolyte, a new battery is approximately 80% charged.



- Place cap strip [1] loosely over the filling holes as shown. Immediately charge the battery after the "stand" period, to bring it to a full state of charge. Refer to "Charging a Newly Activated Sealed VRLA Battery".
- After charging is completed, press down firmly with both hands to seat the caps (do not pound or hammer).

The battery is sealed. There is no need to remove the strip of caps or add electrolyte for the life of the battery.

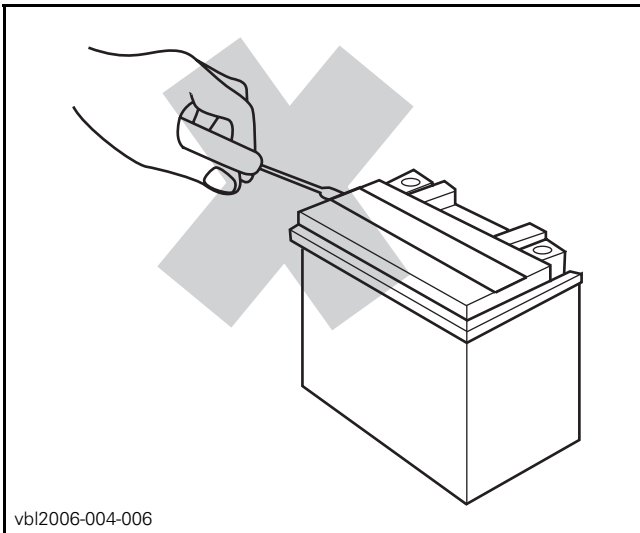


The graph shows an open circuit voltage characteristic of a sealed VRLA battery just after the electrolyte is filled.

[†] Yuasa is a registered trademark of Yuasa Battery Inc.

If the battery is only filled with electrolyte, but not being given a supplementary charge, the open circuit voltage will be somewhere around 12.5 to 12.6 V, as shown in the graph. The reasons for the voltage being low are that:

- The capacity reached by filling with electrolyte is about 80% of the fully charged capacity.
- The electrolyte around the plates gets its concentration lowered temporarily.



vbl2006-004-006

CAUTION: Remember that unlike a conventional battery, the sealed VRLA battery won't be topped off during its life. Never pry off sealing caps: it is dangerous and damaging.

Charging a Newly Activated Sealed VRLA Battery

⚠ WARNING
 ↪ Never charge or boost battery while installed on vehicle. ↩

Sealed VRLA batteries require an initial charge.

- If you are using a constant current charger, refer to the standard (STD) charging method printed on the battery.

- If you are using an automatic type taper charger, check to make sure that the charger current (amps) is equal to or greater than the standard (STD) charging method listed on the battery.

NOTE: These batteries are a sealed VRLA construction; **NEVER REMOVE THE SEALING STRIP AFTER CHARGING IS COMPLETED!** If the battery gets very hot to the touch, cease charging and allow battery to cool down. Check voltage using a voltmeter. Reading for a charged, newly-activated battery should be 12.8 volts or higher after the battery is charged and **sits for at least 1 – 2 hours.** If less, it needs an additional charge.

Sealed VRLA Battery Routine Charging

The single most important thing to maintaining a VRLA battery is to not let it sit discharged: keep it fully charged. A sealed VRLA battery should be kept to near fully charged for peak performance. In fact, it can need charging more often than a car battery because it's probably not used routinely and, therefore, not "automatically" charged.

Use the following guidelines for boost charge. Always verify battery condition before charging, and 30 minutes after charging.

- A fully charged battery should read 12.8V or higher after battery has been off the charger 1 hour.

CAUTION: Overcharging can harm the battery beyond recovery.

It is not recommended to overcharge sealed VRLA batteries. Because of their characteristics, too

much of a boost charge will decrease the volume of electrolyte. The longer the overcharge time, the greater the drop in electrolyte – and starting power.

Stage of charge	Voltage	Action	Charging time*
100%	12.8 – 13.0	None Check at 3 months from date of manufacture	None required
75% – 100%	12.5 – 12.8	May need slight charge, if no charge given, check in 3 months	3 – 6 hours
50% – 75%	12 – 12.5	Need charge	5 – 11 hours
25% – 50%	11.5 – 12	Need charge	At least 13 hours verify state of charge
0% – 25%	11.5 or less (see instructions below)	Need charge	20 hours

* Using a constant current charger at standard amps specified on the battery. Charging times can vary depending on type of charger. Follow the charger's instructions.

CAUTION: Water cannot be added to the sealed VRLA battery to make up the difference. Overcharging can warp plates, making future charging difficult or impossible. Watch charging times carefully, or ideally, use a Yuasa Automatic Charger. Always stop charging if the battery becomes really warm to the touch. Let it cool down 6 - 12 hours and resume charging.

WARNING

Always wear protective goggles and charge in a ventilated area. If battery gets really warm to the touch, discontinue charging and allow battery to cool down. No sparks, flames or smoking when charging.

Charging Instructions for Sealed VRLA Batteries with Voltage of 11.5 or Less

Batteries with voltage below 11.5 V may require special equipment and procedures to recharge. In charging an over discharged battery having a terminal voltage of 11.5 V or lower, its internal resistance may be too high to charge at a normal charge voltage.

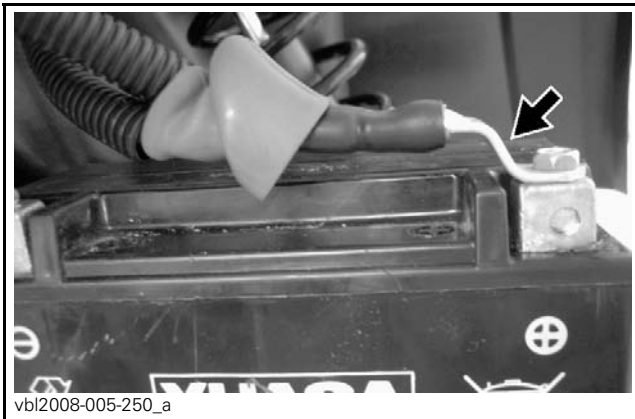
Therefore, it may be necessary to raise the voltage of the battery initially (25 V as a maximum), and charge for approximately 5 minutes. If the ammeter shows no change in current after 5 minutes, you need a new battery. Current flowing into the battery at high voltage can become excessive. Monitor amperage and adjust voltage as necessary to keep current at the battery's standard amp rating. Charge for approximately 20 hours.

Battery Installation <=

⇒ Clean battery posts with a wire brush (if necessary).

Install battery half way in vehicle, positive post towards the front of vehicle.

CAUTION: Make sure to respect cable routing.

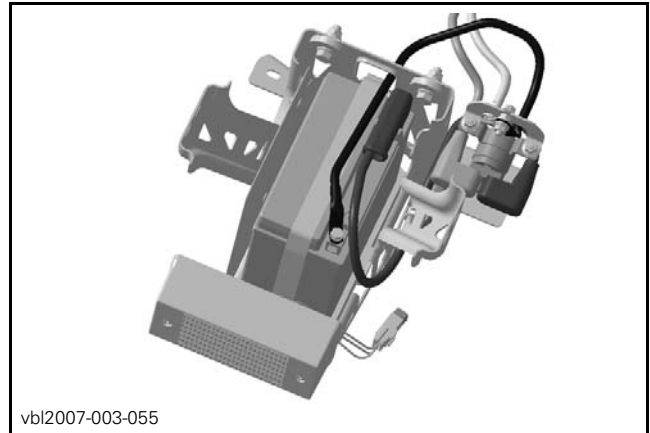


This is the correct way of securing positive (+) post. The cable end MUST be installed as illustrated and the cable MUST be routed over the top of the battery.

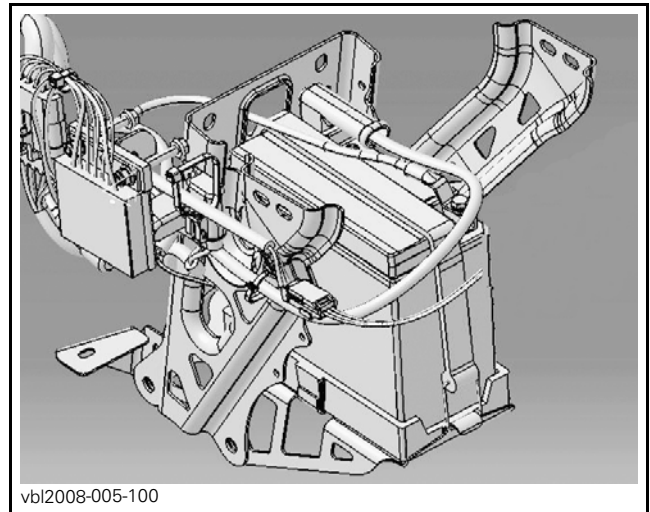


This is the WRONG WAY of securing the positive (+) post.

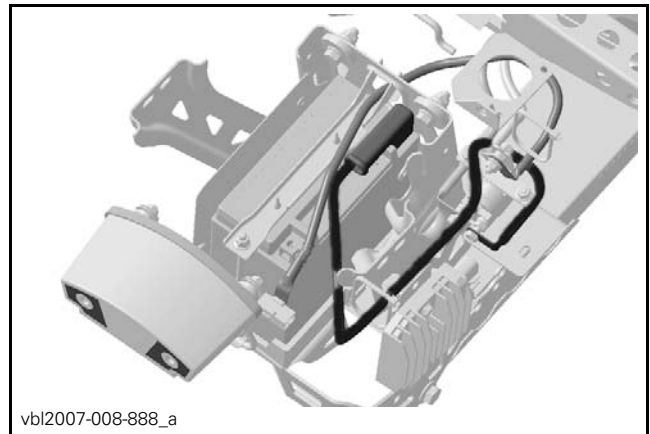
Model(s): All Outlanders except 400 and Renegade



Model(s): Outlander 400



Model(s): Renegade



Install battery half way in vehicle, positive post towards the front of vehicle.

- Secure RED (+) cable to battery post.

⚠ WARNING

Always connect RED (+) cable first.

- Apply dielectric grease on post to protect against oxidation.
- Cover battery positive post with rubber boot.
- Secure BLACK (-) cable to battery post.
- Apply dielectric grease on post to protect against oxidation.
- Secure battery to vehicle. ←

Front Bumper

Model(s): Outlanders XT, International and CE

- Secure upper part of the bumper with:
 - 2 M8 x 20 Torx[†] screws,
 - 2 M8 flat washers and
 - 2 M8 flanged elastic nuts.
- Do not torque yet.
- Secure lower part of the bumper with 4 M8 x 40 flanged hexagonal bolts .
- Torque:
 - Upper fasteners to 11 N•m (8 lbf•ft),
 - Lower fasteners to 24.5 N•m (18 lbf•ft).

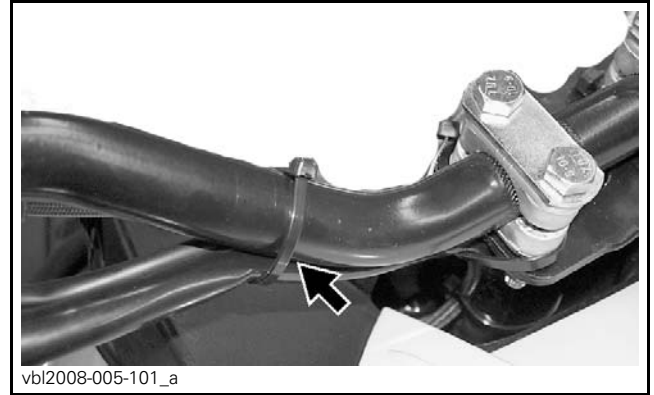
Winch Switch

Model(s): All Outlanders XT

- Cut the retaining locking tie.



- Secure winch switch to the brake housing with the existing bolt.



- Attach wires to handlebar, using a locking tie.

Mirrors

Model(s): All CE

- Remove mirrors from the storage compartment.
- Install mirrors on their supports.

Locking Device

Model(s): All CE

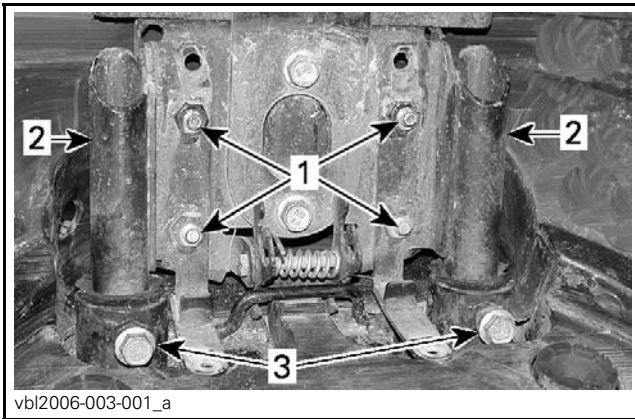
For the European Community models a locking device is required to avoid vehicle from moving when needed. This locking device and its instruction sheet are located in the mirrors box.

Backrest

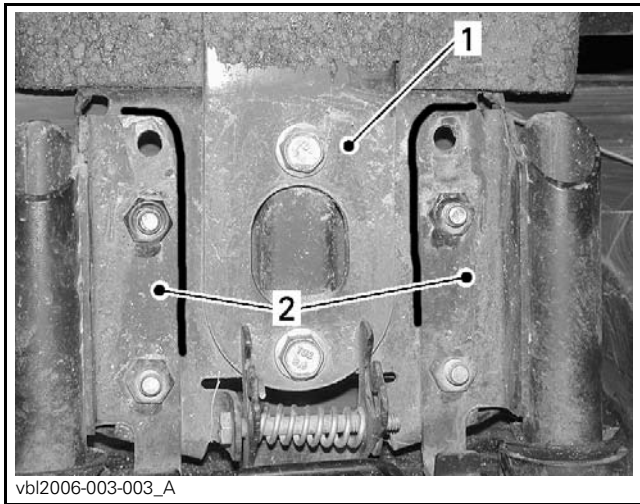
Model(s): All Outlanders MAX

- To install the backrest on passenger's seat, do the following.

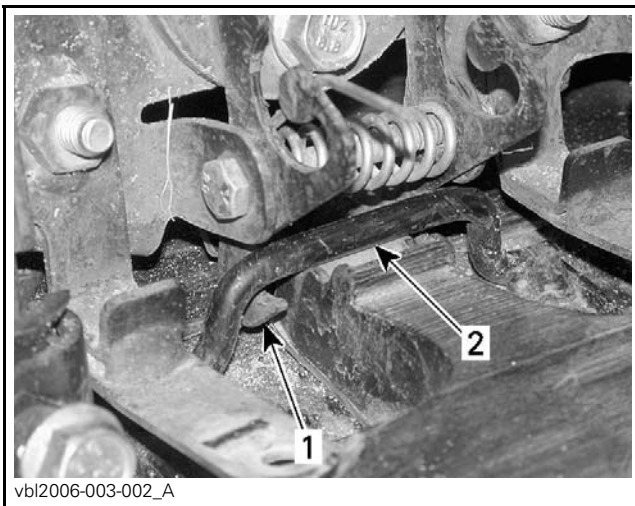
[†] Torx is a registered trademark of Textron Inc.



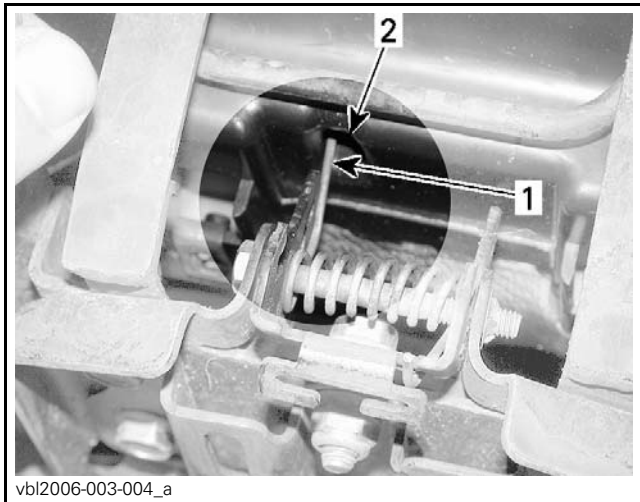
- Loosen bolts [1] holding backrest plate to backrest support.
- Install the backrest tubes [2] into their locations in frame.
- Install backrest tube bolts [3]. Do not torque yet.



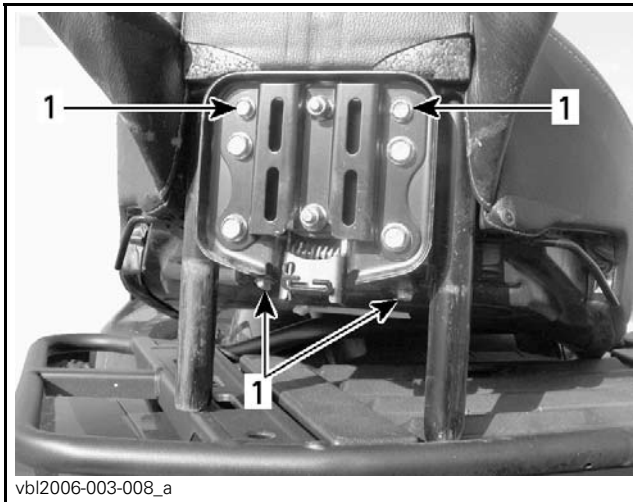
- Using a marker, mark the position of the backrest plate [1] on the backrest support [2].
- Remove backrest from vehicle. Align backrest support with the mark on backrest plate and torque the 4 bolts.
- Torque to 25 N•m (18.5 lbf•ft).



- Check if the latch hooks [1] are inserted under attachment rod [2].
- Tighten backrest tube bolts to prevent back and forth movements. Do not over torque.



- Place the long end of spring [1] in the seat recess [2].
- Position the seat release rod into the backrest latch slot.

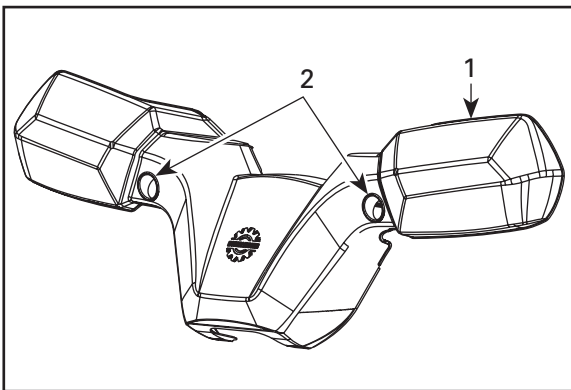


- Then screw-in backrest [1] to passenger's seat
- Torque to 5 N•m (44 lbf•in).

NOTE: If required, you may add a very small amount of general purpose grease on the backrest tubes insertion plastic guides to ease tubes insertion.

Handlebar Guard

Model(s): Outlander 400 XT

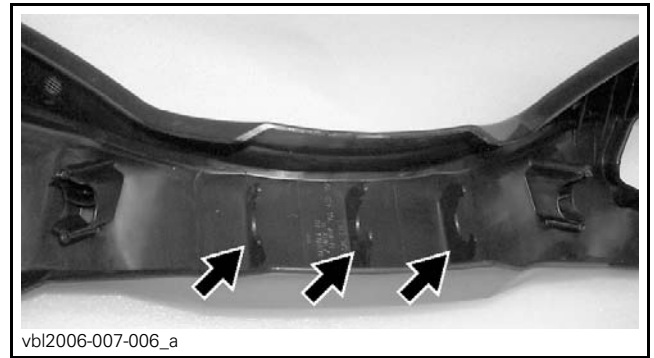


NOTE: Holes [2] in hand guards no longer exist on 2007 MY vehicles.

- Remove the handlebar guard [1] from its box.
- Secure the handlebar guard to the steering cover with:
 - 4 hexagonal bolts included in the handlebar guard box.

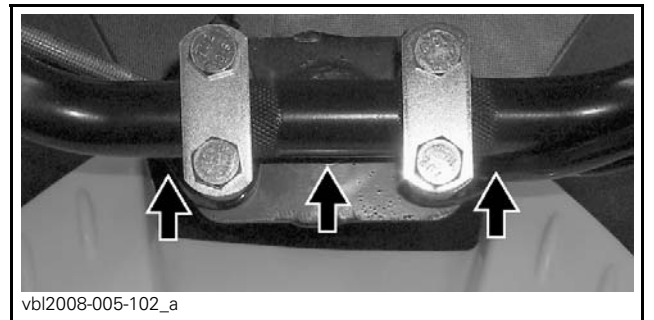
Model(s): Outlanders 500 XT / 650 XT / 800 XT

- Remove the handlebar protector from its box.

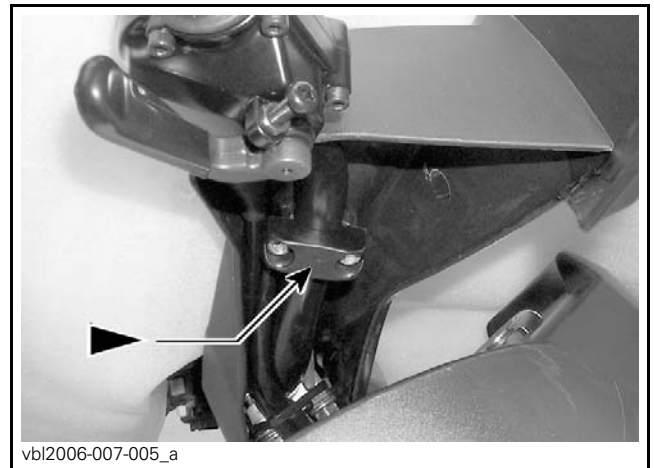


- Insert the 2 handlebar protector ribs on the handlebar, where the arrows are pointing.

NOTE: Center rib no longer exists on 2007 MY vehicles.



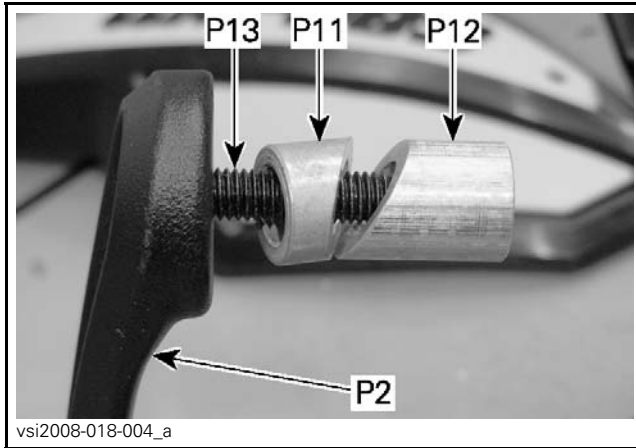
- Clip both ends of the handlebar protector to the handlebar.



- Secure the handlebar protector in place using supplied U-clips, washers and hexagonal screws. Make sure to orient the arrow toward the front of the vehicle.
- The arrow points toward the longest U-clip leg; make sure to screw this one first, so it will make contact with the handlebar protector.
- Screw in the second screw.
- Torque from 0.34 to 0.45 N•m (3 to 4 lbf•in).

CAUTION: The throttle cable and wires must be located on the upper part of the handlebar protector, to avoid any contact with moving parts. The throttle must move freely at all time.

Wind Deflector <=

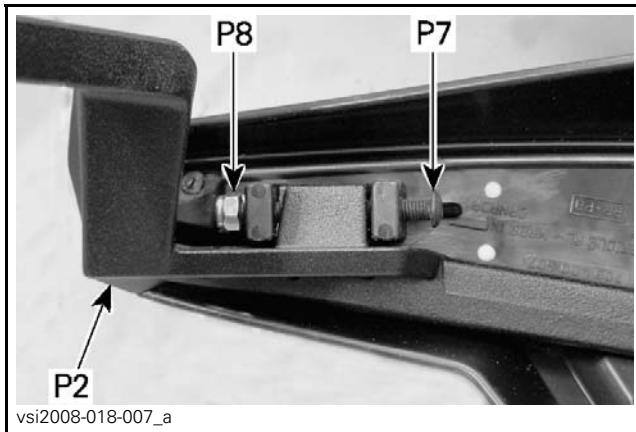


Model(s): *Renegade 800 X*

Install M8 screw [P13] in the RH full wrap support [P2].

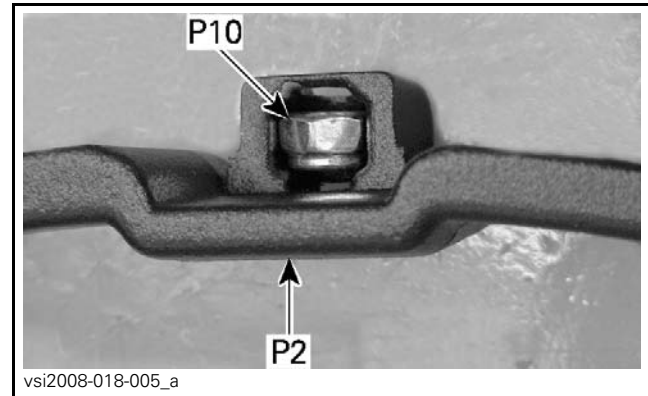
Insert beveled bracket [P11] in M8 screw [P13].

Screw on threaded beveled bracket [P12] into M8 screw [P13].

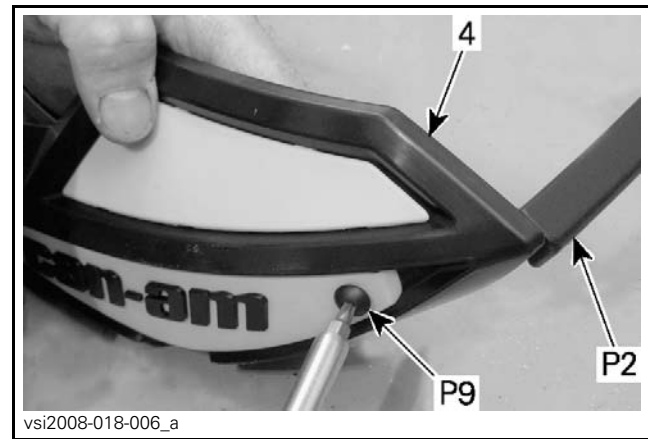


Install M4 bolt [P7] and M4 nut [P8].

Torque M4 nut [P8] to 3 N•m (27 lbf•in).

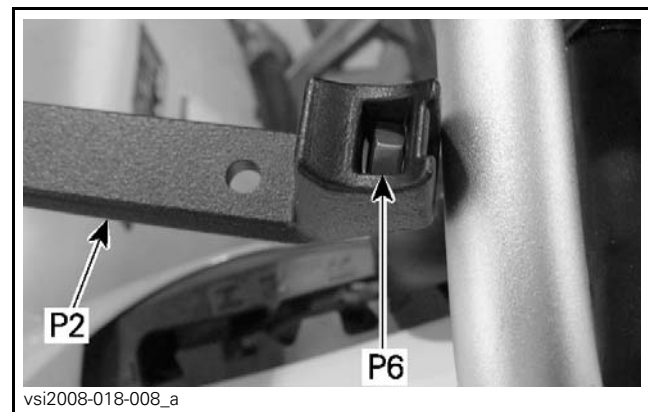


Insert M5 nut [P10] in the RH full wrap support [P2] middle housing.

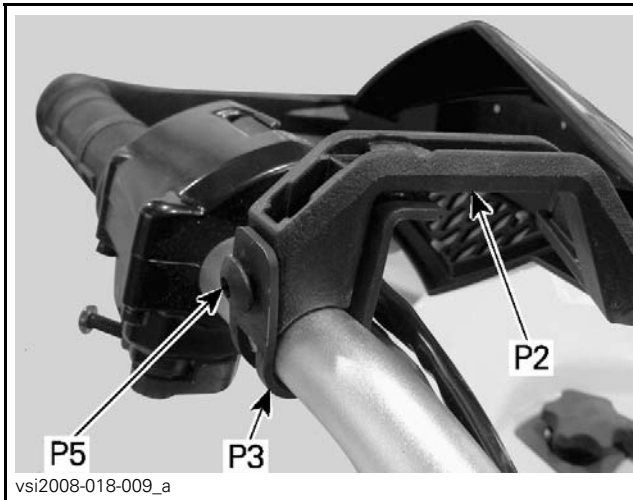


Install and tighten M5 bolt [P9].

Insert the beveled brackets inside the handlebar end.



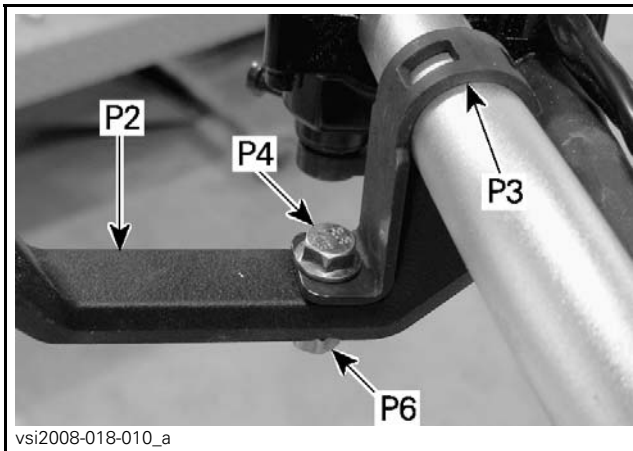
Insert M6 nut [P6] in the RH full wrap support [P2] end housing.



Install RH full wrap support [P2] on handlebar using U clamp [P3].

Install M6 x 16 bolt [P5].

NOTE: For an easier installation, as per the above illustration, completely rotate support to install bolt, and then, reposition at the normal position.



Install M6 x 20 bolt [P4] and M6 nut [P6].

Adjust wind deflector horizontally.

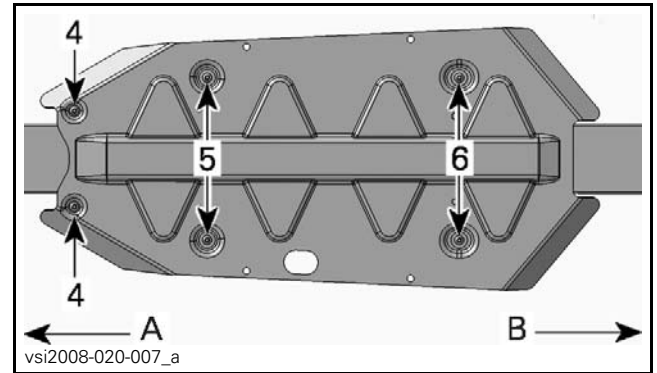
Torque M6 bolt and nut to 10 N•m (89 lbf•in).

Torque M8 bolt [P13] to 24 N•m (212 lbf•in).

⚠ WARNING

Make sure that there is clearance at all time between the deflectors and the clutch lever / brake lever and all other moving components.

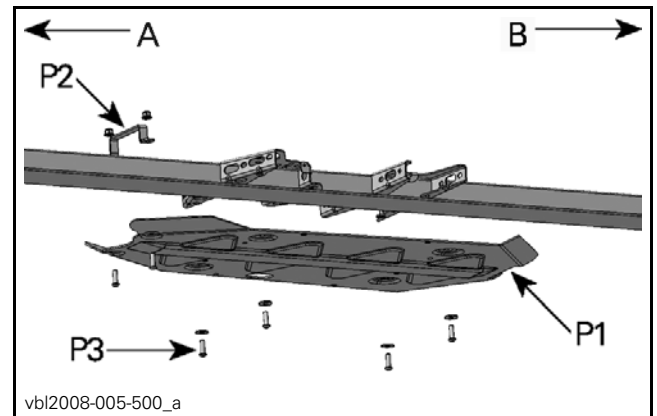
Central Skid Plate <=



Model(s): ➡ **Renegade 800 X**

Put skid plate in place

- Front of vehicle [A]
- Rear of vehicle [B]



Secure skid plate [P1] in front holes [4] using bolts [P3] and skid plate bracket [P2].

To do so, install bolt [P3], skid plate [P1], skid plate bracket [P2] and elastic nut [P4].

Secure skid plate [P1] in middle holes [5] using bolts [P3].

To do so, install bolt [P3], flat washer [P6], skid plate [P1] to frame.

Secure skid plate [P1] in rear holes [6] using bolts [P3].

To do so, install bolt [P3], flat washer [P6], skid plate [P1] to frame.

Torque all [P3] bolts to 10–12 N•m (88–106 lbf•in). ⬅

FINAL PREPARATION

Brake Cleaning

Model(s): All

- Using pulley flange cleaner (P/N 413 711 809), clean front and rear brake discs.

NOTE: 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.

Tires and Wheels

Model(s): All

- Check pressure when tires are cold before using the vehicle.

NOTE: Tire pressure varies with temperature and altitude.

- Recheck pressure if temperature or altitude has changed.

⚠ WARNING

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: For your convenience, a pressure gauge is supplied in the tool box.

Model(s): Outlanders 400 / 400 XT / 500

LOAD UP TO 230 kg (500 lb) (includes driver)	RECOMMENDED	FRONT	REAR
	MAXIMUM	34.5 kPa (5 PSI)	
	MINIMUM	31 kPa (4.5 PSI)	

Model(s): Outlanders 400 MAX / 400 MAX XT / 500 MAX

LOAD UP TO 235 kg (517 lb) (includes driver)	RECOMMENDED	FRONT	REAR
	MAXIMUM	34.5 kPa (5 PSI)	
	MINIMUM	31 kPa (4.5 PSI)	

Model(s): Outlander 500 XT

LOAD UP TO 235 kg (517 lb) (includes driver)	RECOMMENDED	FRONT	REAR
	MAXIMUM	48.3 kPa (7 PSI)	
	MINIMUM	31 kPa (4.5 PSI)	

Model(s): Outlander 500 MAX XT

LOAD UP TO 272 kg (600 lb) (includes driver)	RECOMMENDED	FRONT	REAR
	MAXIMUM	48.3 kPa (7 PSI)	48.3 kPa (7 PSI)
	MINIMUM	31 kPa (4.5 PSI)	34.5 kPa (5 PSI)

Model(s): Outlanders 650 / 650 XT / 800 / 800 XT

LOAD UP TO 235 kg (517 lb) (includes driver)	RECOMMENDED	FRONT	REAR
	MAXIMUM	48.3 kPa (7 PSI)	48.3 kPa (7 PSI)
	MINIMUM	31 kPa (4.5 PSI)	34.5 kPa (5 PSI)

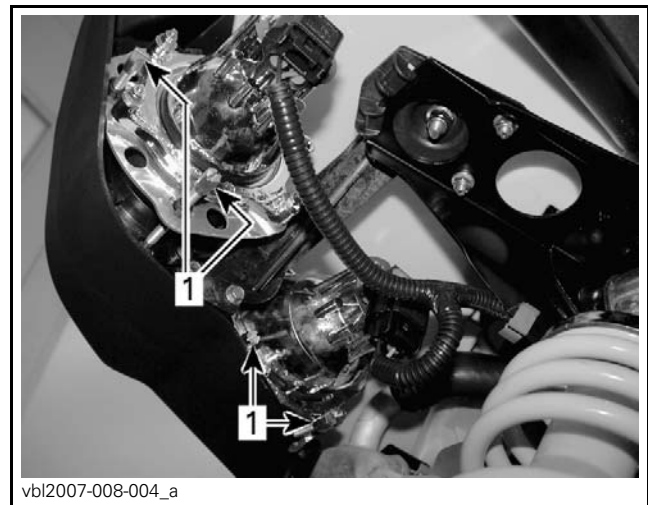
Model(s): Outlanders 650 MAX / 650 MAX XT / 800 MAX / 800 MAX XT / 800 MAX LTD

LOAD UP TO 272 kg (600 lb) (includes driver)	RECOMMENDED	FRONT	REAR
	MAXIMUM	48.3 kPa (7 PSI)	48.3 kPa (7 PSI)
	MINIMUM	31 kPa (4.5 PSI)	34.5 kPa (5 PSI)

Model(s): Renegade

LOAD UP TO 272 kg (600 lb) (includes driver)	RECOMMENDED	FRONT	REAR
	MAXIMUM	48.3 kPa (7 PSI)	48.3 kPa (7 PSI)
	MINIMUM	34.5 kPa (5 PSI)	37.9 kPa (5.5 PSI)

Headlights Aiming



VIEW FROM LEFT SIDE

- With vehicle straight on a level surface and tires properly inflated, proceed with headlights aiming by projecting beam on a wall and adjusting it using adjustment screws [1] behind headlights.

Recommended Fuel

Model(s): All

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

LOCATION	MINIMUM OCTANE NUMBER
In North America	87 (RON + MON) / 2
Everywhere else in the world	92 RON

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

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

Fuel Level

Model(s): All

WARNING

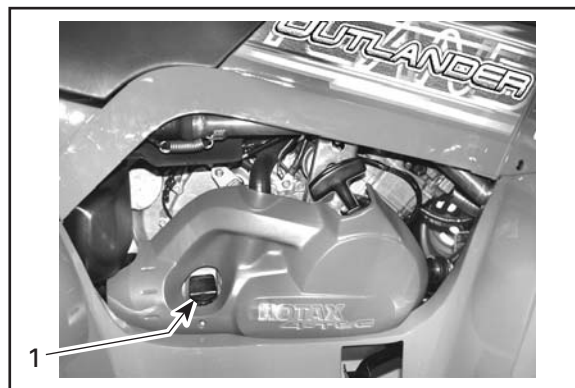
Never top off the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and may overflow. Fuel is flammable and explosive under certain conditions. Always wipe off any fuel or oil spillage from the vehicle.

Engine Oil Level

Model(s): All

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

Model(s): All Outlanders 400 and 500



- With vehicle on a level surface and engine cold, not running, check the oil level as follows:
 - Unscrew dipstick [1] then remove it and wipe clean.

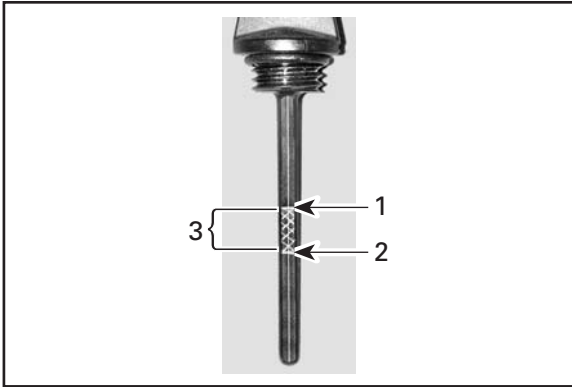
Model(s): All 650 and All 800



- With vehicle on a level surface and engine cold, not running, check the oil level as follows:
 - Unscrew dipstick [1] then remove it and wipe clean.

Model(s): All

- Reinstall dipstick, screw it in completely; and pull it out again.



- Oil level [3] must be between minimum [2] and maximum [1] marks on dipstick.
- Add oil up to upper mark [1] if required.
- To add oil, remove dipstick.
- Place a funnel into the dipstick tube and fill with the recommended oil.
- Do not overfill.
- Properly tighten dipstick.

Gearbox Oil and Oil Level

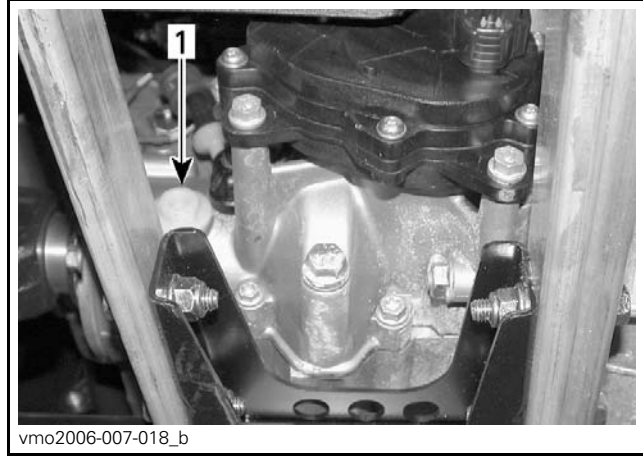
Model(s): All

USE ONLY: XP-S synthetic chaincase oil

CAUTION: Do not use not recommended other types of oil when servicing. Do not mix other types of oil.

CAUTION: Check level frequently and refill if necessary. Do not overfill. Operating the gearbox with an improper level may severely damage it. Wipe off any spillage.

- Put vehicle on a level surface.
- Select NEUTRAL gearbox position.
- Apply parking brake.



- Check oil level by removing the gearbox oil plug [1].

NOTE: Oil should be level to the bottom of the oil plug hole. Refilling is done via the oil plug hole.

Recommended Brake Fluid

Model(s): All

NOTE: Always use brake fluid meeting the specification DOT 4, from a sealed container.

CAUTION: 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 Level

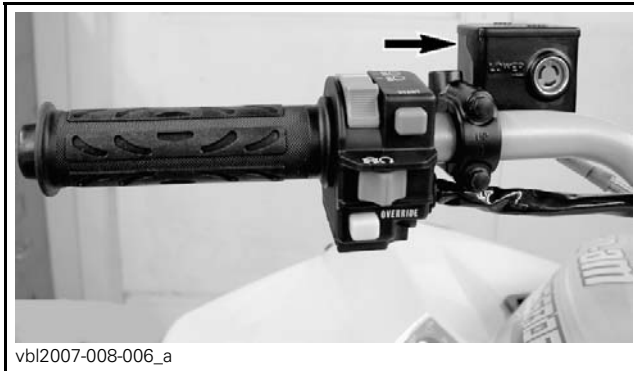
Model(s): All

- With vehicle on a level surface, check brake fluid in reservoirs for proper level. They should show above the MIN. mark.
- Add fluid as required.
- Do not overfill.
- Use GTLMA (DOT 4) (P/N 293 600 062) from a sealed container.
- Clean filler cap before removing.

CAUTION: Use only DOT 4 brake fluid from a sealed container. Do not use brake fluid taken from old or already opened containers.

Brake Lever Fluid Reservoir

Model(s): *Renegade*



Model(s): *All Outlanders*



- Ensure reservoir is level.
- Check the brake fluid level.

NOTE: The reservoir is full when the fluid reaches the MAX. level mark.

Recommended Coolant

Model(s): *All*

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

NOTE: Cooling system must be filled with water and antifreeze solution (50% water, 50% antifreeze) or with BRP premixed coolant (P/N 219 700 362).

Coolant Level

Model(s): *Renegade*



Model(s): *All Outlanders*



⚠ WARNING

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

- Remove access panel.

NOTE: With vehicle on a level surface, liquid should be between MIN. and MAX. level marks of coolant reservoir.

NOTE: When checking level at temperature lower than 20°C (69°F), it may be slightly lower than MIN. mark.

- Add coolant up to MAX. level mark if required.
- Use a funnel to avoid spillage.
- Do not overfill.
- Properly reinstall and tighten filler cap and reinstall access panel.

- If coolant is added in the reservoir, check the level in the radiator also.
- Add coolant if necessary.

PROGRAMMING, USING B.U.D.S.

Model(s): All except 400 series

NOTE: The ATV will not start until a key code is programmed in the vehicle's ECM using B.U.D.S.

If you are not familiar with B.U.D.S. and to learn how to install the B.U.D.S. on a computer, refer to:

- 2006 ATV Technical Update Book, Section 4B, (P/N 219 100 226)
- BRP's Guide to Service Fundamentals and Principles, Chapter 9, (P/N 484 800 168)

Always use the **Latest version of B.U.D.S** that can be downloaded from BOSSWeb (www.bossweb.brp.com). User Name and Password are needed.

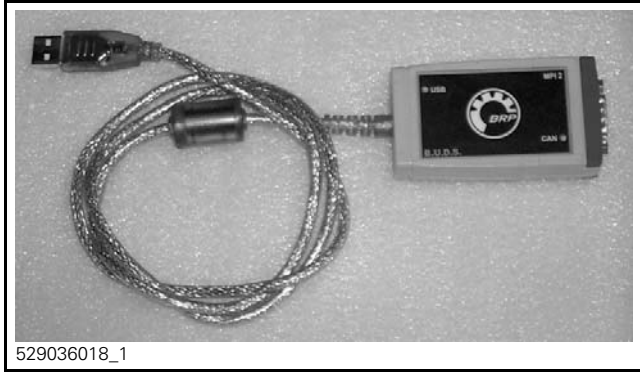
Go to the ComCenter and select B.U.D.S & MPEM from the scroll down menu.

Connecting PC to Vehicle

There are two ways to connect B.U.D.S. to the 2007 Outlander:

1- Using the new MPI-2 technology.

The necessary hardware listed below was auto-shipped to all BPR "Can-Am ATV only" dealers. This hardware will replace the previous MPI kit. It has the same function, and will work on other BRP product lines; the access code determines the product line(s) dealers can program using B.U.D.S.



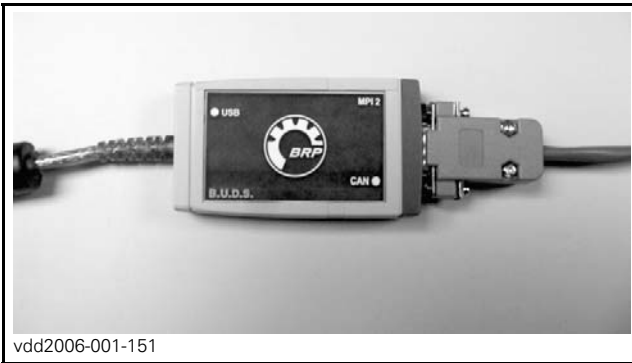
- 529 036 018: MPI-2 interface card
- 710 000 851: Diagnostic cable

Extra DB9 male/female extension cables can be purchased locally.

Make sure to install B.U.D.S. program before connecting the MPI-2 on a computer.



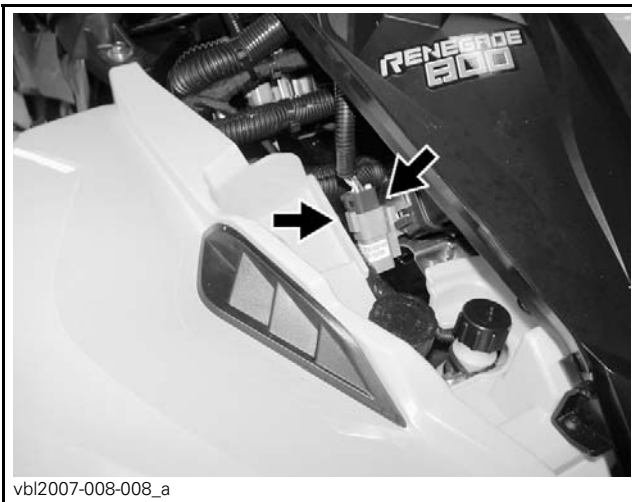
- 1) Connect the USB connector of the MPI-2 to the USB port of your computer.



vdd2006-001-151

2) Connect the diagnostic cable to the MPI-2.

Model(s): Renegade



vbl2007-008-008_a

NOTE: The vehicle connection is located in the front of the vehicle, under the front access panel.

Model(s): All Outlanders



vdd2006-001-152

3) Connect the 6 pin connector of the diagnostic cable to the vehicle.

NOTE: The vehicle connection is located in the front of the vehicle, under the service center cover.

2- Using the Vehicle Communication Kit (VCK).



vdd2006-001-149

These are the components you will need to connect your PC to the vehicle:

- 529 035 677: Multi Protocol Interface (MPI)
- 529 035 807: Diagnostic cable
- 529 035 679: 6-pin adapter
- 529 035 697: DB9 female to DB9 male serial cable

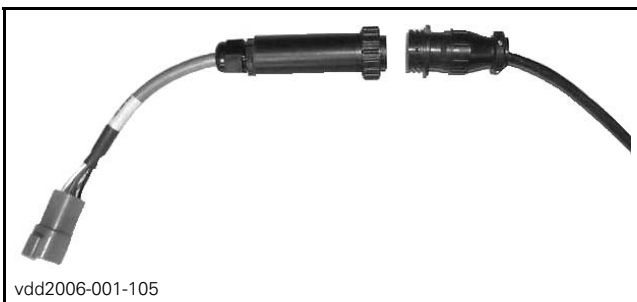


vdd2006-001-102

- 1) Connect the DB9 serial cable to the MPI serial port.
- 2) Connect the HDDB-15 male connector of the diagnostic cable to the MPI diagnostic port (engine icon).



3) Connect the other end of the serial cable to your computer serial port. You may use the DB9 to DB25 serial adapter in the eventuality that your computer has only a 25-pin serial connector.



4) Connect the other end of the diagnostic cable to the 6-pin adapter. You can optionally use a diagnostic extension cable between the diagnostic cable and the 6-pin adapter.

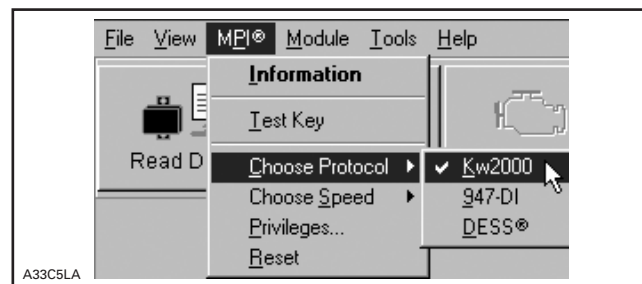


5) Connect the 6 pin connector of the diagnostic cable to the vehicle. The vehicle connection is located in the front of the vehicle, under the service center cover.

Initializing B.U.D.S.

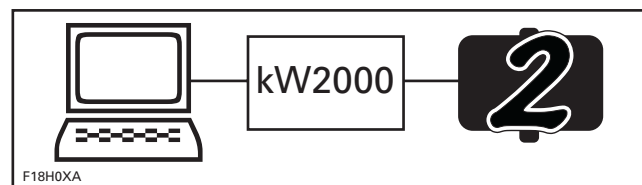
The type of MPI that is being used does not have any effect on the interface and the features of B.U.D.S.

1) Initialize B.U.D.S.



Select Protocol Kw2000

2) Select the vehicle's Protocol in "Chose Protocol" from the "MPI" menu. It may take a few seconds for the Protocol to load in the MPI.

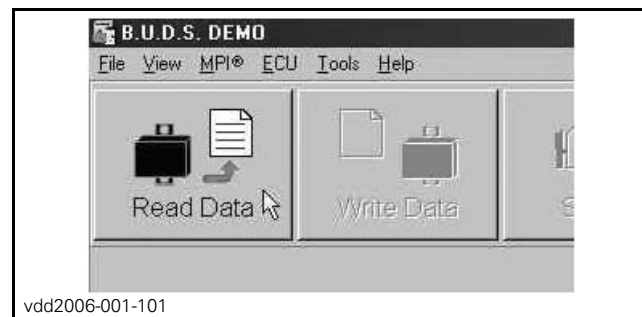


Make sure the status bar shows the proper Protocol.

Make sure the number 2 in displayed.

If an "X" is shown instead of a "2" it means that there is no communication between the MPI and the ECM. Possible causes are:

- ECM not powered
- wrong protocol used
- bad connection between MPI and ECM



3) Press the "Read Data" button from the tool bar to initiate communication with the vehicle.



On the MPI, the "Rx/Tx MPEM" LED on middle of the enclosure will blink to indicate that data is being exchanged with the vehicle.

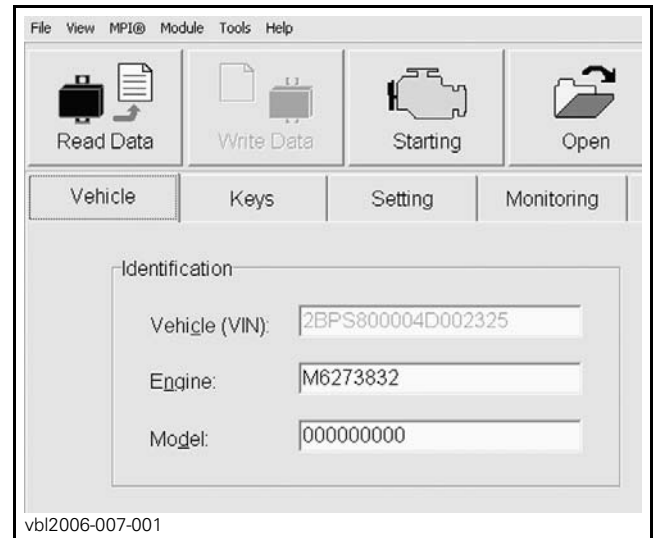


On the MPI-2, LEDs on enclosure will blink to indicate that data is being exchanged with the vehicle.

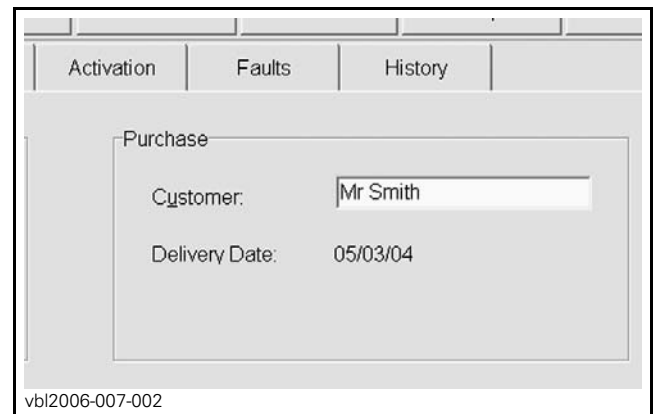
Entering Customer's Name

When starting the vehicle, the multi-function display will show the name of the customer; for example: "HI JOHN SMITH". If the customer's name is not programmed, only "HI" will be visible when turning the vehicle ON.

- Read the content of the vehicle's ECM/info-center by pressing the Read Data button from the tool bar.

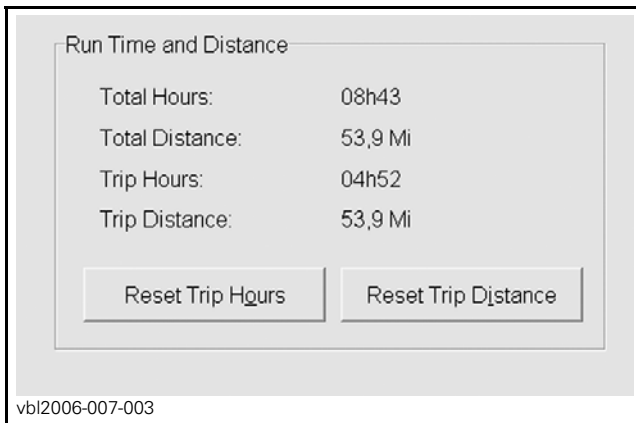


- Click on the VEHICLE tab to open the vehicle information page.



- Type the name of the customer. The name of the customer will appear on the info-center each time the ignition is set to " ON" .
- After you are finished typing the name, B.U.D.S. automatically updates the Delivery Date on the screen.

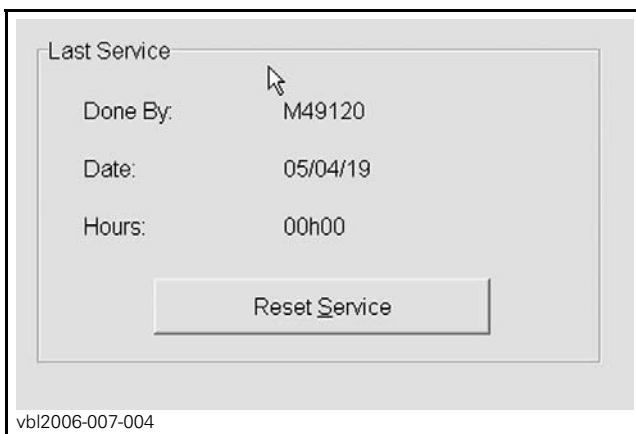
Resetting Trip Hours and Trip Distance



Trip Hours and Trip Distance can be reset using B.U.D.S., in the VEHICLE tab.

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

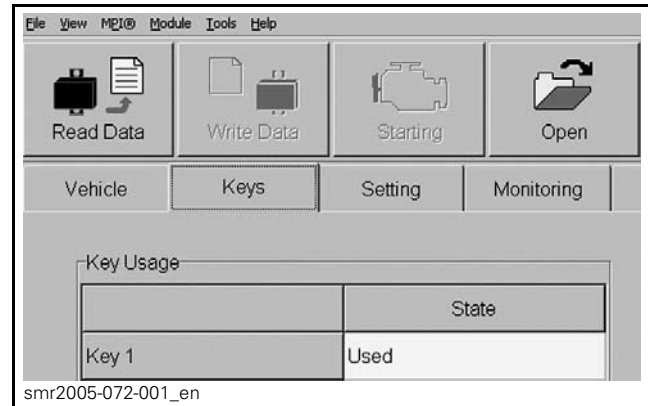
Resetting Last Service



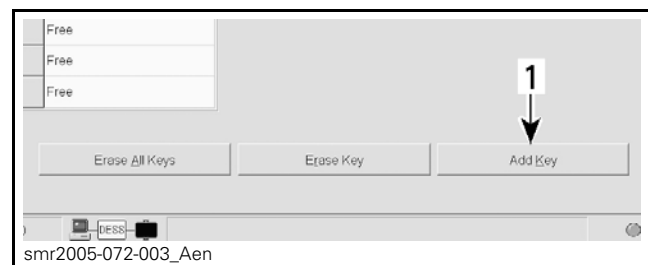
After each maintenance service, Last Service should be reset to keep a good tracking of the vehicle service history.

- To update the ECM/info-center, write the document into the vehicle by pressing the Write Data button from the tool bar.

Programing Keys with B.U.D.S.



- Click on "Keys" tab.
- When programming a vehicle for the first time, you need to click on "Erase All Keys" button.
- Insert ignition key in the ignition switch. Turn ignition switch to any ON position.



- Click on "Add Key" [1].
- A new key is now saved in the computer.
- Repeat to program for more keys.
 - Click on "Write Data" to save new keys in the vehicle's ECM.

Speedometer Reading

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

- Select the "SETTING" tab in B.U.D.S.

- Select Miles or Kilometers from the “Cluster Scale” section.

No data will be lost when changing this setting.

Ending a B.U.D.S. Session

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

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

- Click on WRITE DATA button to transfer new settings and information to the ECM.
- Click on EXIT button (right most) to end session.
- Ensure to reinstall the cap over the communication connector.

Accessories Installation

- Install accessories (if any) as per their installation instructions.
- Install any other equipment required by law (if any).
- Install french labels upon customer's request (required by law in Québec, Canada).

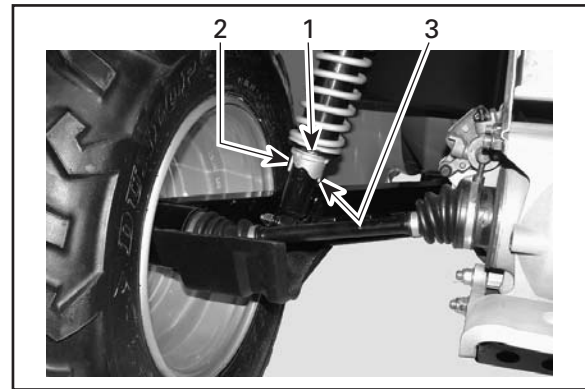
DELIVERY TO CUSTOMER

Model(s): All

IMPORTANT: All adjustments have already been performed at factory. It is only necessary to validate them. However, if readjustment is needed, the following procedures should be used.

Rear Suspension Adjustment

Model(s): All



- Adjust spring preload by turning adjusting cam [1] accordingly with the adjusting wrench in vehicle tool box.
- Turn the adjusting cams clockwise for a firmer ride [3] and rough road condition or when carrying cargo or pulling a trailer.
- Turn the adjusting cams counterclockwise for a light load and a smooth road condition [2].

It is recommended to set the rear spring preload according to owner's preferences.

⚠ WARNING

Left and right adjusting cams must always be set at the same position. Never adjust one adjusting cam only. Uneven adjustment can cause poor handling and loss of stability, which could lead to an accident.

Front Suspension Adjustment

Model(s): All

- Adjust spring preload by turning adjusting cam accordingly with the adjusting wrench in vehicle tool box.
- Turn the adjusting cams clockwise for a firmer ride and rough road condition or when carrying cargo or pulling a trailer.
- Turn the adjusting cams counterclockwise for a light load and a smooth road condition.

It is recommended to set the front spring preload according to owner's preferences.

Vehicle Cleaning

Model(s): All

- Wash and dry the vehicle.

CAUTION: 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.

- Remove any dirt.
- Clean vinyl or plastic parts, using flannel clothes with BRP Vinyl & Plastic Cleaner (P/N 413 711 200).

CAUTION: It is necessary to use flannel clothes on plastic parts to avoid damaging surfaces. Never clean plastic parts with strong detergent, degreasing agent, paint thinner, acetone, products containing chlorine, etc.

- To clean the entire vehicle, including metallic parts use BRP Cleaner (P/N 293 110 001 (400 g) or 293 110 002 (4 L)).

Vehicle Delivery

Model(s): All

- Complete the *PRE DELIVERY CHECK LIST*.
- Test run the vehicle.
- Give *OPERATOR'S GUIDE* and *SAFETY DVD* to customer.
- The customer must read and sign the *PRE DELIVERY CHECK LIST*.

SPECIFICATIONS

Technical Data — 400 / 400 XT

ENGINE	400	400 XT
Type	Rotax™ 4-stroke, liquid cooled, over head cam (OHC)	
Number of cylinder	1	
Number of valves	4 valves with mechanical lifters (adjustable)	
Displacement	400 cc (24.4 cu. in)	
Bore	Standard	91 mm (3.58 in)
Stroke	61.5 mm (2.42 in)	
Compression ratio	10:1	
Lubrication	Wet sump with replaceable oil filter (lubrication of engine and transmission simultaneously)	

Decompressor	Centrifugal	
Exhaust system	USDA approved spark arrestor	
Air filter	2 stage foam filter	
TRANSMISSION	400	400 XT
Transmission	CVT type with sub-transmission L-H-N-R-P	
COOLING	400	400 XT
Type	Liquid cooled	
Radiator	Front mounted with thermostatic fan	
CARBURETION	400	400 XT
Carburetor	Make	Mikuni BSR33
	Type	Constant velocity with manual choke and ECS (Enricher Coasting System)
Choke plunger position	Variable	
Idle speed	± 50 1300 RPM	
Fuel pump	Make	Mikuni
	Type	Pulsation (diaphragm)
ELECTRICAL	400	400 XT
Magneto generator	Make	Denso
	Type	400 W @ 6000 RPM
Ignition type	CDI (Capacitor Discharge Ignition)	
Ignition timing	Not adjustable	
Engine RPM limiter	8000 RPM (any gear in forward)	
Vehicle speed limiter (Reverse)	15 km/h (9 MPH) in reverse	
Spark plug	Make	NGK
	Type	DCPR8E
	Gap	0.6 to 0.7 mm (.024 to .027 in)
Number of spark plug	1	
Battery	Type	Maintenance free
	Volt	12 Volts, 18 Ah
Starting system	Electric start and manual rewind starter. Start on P, R, N, H or L position (with brake applied)	
Headlamp bulb	2 x 35 W	
Taillight bulb	8/27	
Indicator lights	LED, 0.7 V approx. (each)	
Fuses	Accessories	15 A
	Fan	20 A
	Main	30 A
	Charging system	20 A
DRIVE TRAIN	400	400 XT

Front differential		Shaft driven/single auto-lock differential (shear pump)	
Rear axle		Shaft driven	
Turning radius		1.83 m (72 in)	
SUSPENSION		400	400 XT
Front	Type	Independent suspension MacPherson type	
	Travel	178 mm (7 in)	
Rear	Type	TTI™ independent	
	Travel	203 mm (8 in)	
TIRES		400	400 XT
Make		Ohtsu 25"	Carlisle ACT 25"
Type		Bias	Radial
Pressure	Up to 230 kg (500 lb)	Front	34.5 kPa (5 PSI) recommended 31 kPa (4.5 PSI) minimum
		Rear	
Size	Front	25 x 8 x 12	25 x 8 R 12
	Rear	25 x 10 x 12	25 x 11 R 12
WHEELS		400	400 XT
Size	Front	12 x 6	
	Rear	12 x 7.5	
Wheel nuts torque		70 N•m (52 lbf•ft)	
BRAKES		400	400 XT
Front		Hydraulic, 2 discs	
Rear		Hydraulic, 1 disc	
Parking device		Hydraulic lock (4 wheels)	
LOADING CAPACITY		400	400 XT
Front rack		45 kg (100 lb)	
Rear rack (including tongue load)		90 kg (200 lb)	
Rear storage box		10 kg (22 lb)	
Total vehicle load allowed (includes operator, all loads and added accessories)		230 kg (500 lb)	
GVWR (Gross Vehicle Weight Rating)		460 kg (1014 lb)	
Towing capacity		500 kg (1100 lb)	
Tongue capacity (included with rear racks)		14 kg (30 lb)	
DIMENSIONS		400	400 XT
Dry mass		290 kg (639 lb)	320 kg (705 lb)
Overall length		2.18 m (86 in)	
Overall width		1.17 m (46 in)	
Overall height		1.14 m (45 in)	
Seat height		877 mm (35 in)	
Wheel base		1.24 m (49 in)	

Wheel track	Front	965 mm (38 in)	
	Rear	914 mm (36 in)	
Ground clearance		236 mm (9.3 in)	
Weight distribution (front/rear)		49/51 %	52/48 %
LIQUIDS and GREASES		400	400 XT
Engine oil type		SAE 5W30, 4-stroke mineral base. API classification SG, SH or SJ or XP-S 5W40 synthetic 4-stroke oil.	
Coolant		Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP premixed coolant or a coolant specially designed for aluminum engines	
Fuel	Type	Regular unleaded gasoline	
	Octane	In North America: 87 (R + M)/2 or higher Everywhere else in the world: 92 RON	
Differential	Front	BRP differential oil or XP-S synthetic polyolester oil 75W90 (API GL-5)	
	Rear		
Brake		Brake fluid, DOT 4	
CV Joint grease		TEXACO HTBJ grease (M3014) ONLY	
Propeller shaft joint grease		SHELL Alvania EP-2 ONLY	
CAPACITIES		400	400 XT
Fuel tank (including a reserve of approximately 2L (0.6 U.S. gal))		16 L (4.2 U.S. gal)	
Engine / transmission oil		Oil change with filter: 3 L (3.2 U.S. quarts)	
Coolant (including reserve)		2.5 L (0.68 U.S. gal)	
Differential	Front	500 mL (17 U.S. oz)	
	Rear	250 mL (8.5 U.S. oz)	
Brake fluid		125 mL (4.3 U.S. oz)	

A: Ampere

RPM: Revolution Per Minute

V: Volt

Ah: Ampere Hour

USDA: United States Department of Agriculture

W: Watt

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Technical Data — 400 MAX / 400 MAX XT

ENGINE		400 MAX	400 MAX XT
Type	Rotax 4-stroke, liquid cooled, over head cam (OHC)		
Number of cylinder	1		
Number of valves	4 valves with mechanical lifters (adjustable)		
Displacement	400 cc (24.4 cu. in)		
Bore	Standard	91 mm (3.58 in)	
Stroke	61.5 mm (2.42 in)		
Compression ratio	10:1		
Lubrication	Wet sump with replaceable oil filter (lubrication of engine and transmission simultaneously)		
Decompressor	Centrifugal		
Exhaust system	USDA approved spark arrestor		
Air filter	2 stage foam filter		
TRANSMISSION		400 MAX	400 MAX XT
Transmission	CVT type with sub-transmission L-H-N-R-P		
COOLING		400 MAX	400 MAX XT
Type	Liquid cooled		
Radiator	Front mounted with thermostatic fan		
CARBURETION		400 MAX	400 MAX XT
Carburetor	Make	Mikuni BSR33	
	Type	Constant velocity with manual choke and ECS (Enricher Coasting System)	
Choke plunger position	Variable		
Idle speed	± 50	1300 RPM	
Fuel pump	Make	Mikuni	
	Type	Pulsation (diaphragm)	
ELECTRICAL		400 MAX	400 MAX XT
Magneto generator	Make	Denso	
	Type	400 W @ 6000 RPM	
Ignition type	CDI (Capacitor Discharge Ignition)		
Ignition timing	Not adjustable		
Engine RPM limiter	8000 RPM (any gear in forward)		
Vehicle speed limiter (Reverse)	15 km/h (9 MPH) in reverse		

Spark plug	Make	NGK	
	Type	DCPR8E	
	Gap	0.6 to 0.7 mm (.024 to .027 in)	
Number of spark plug		1	
Battery	Type	Maintenance free	
	Volt	12 Volts, 18 Ah	
Starting system		Electric start and manual rewind starter. Start on P, R, N, H or L position (with brake applied)	
Headlamp bulb		2 x 35 W	
Taillight bulb		8/27	
Indicator lights		LED, 0.7 V approx. (each)	
Fuses	Accessories	15 A	
	Fan	20 A	
	Main	30 A	
	Charging system	20 A	
DRIVE TRAIN		400 MAX	400 MAX XT
Front differential		Shaft driven/single auto-lock differential (shear pump)	
Rear axle		Shaft driven	
Turning radius		2.0 m (79 in)	
SUSPENSION		400 MAX	400 MAX XT
Front	Type	Independent suspension MacPherson type	
	Travel	178 mm (7 in)	
Rear	Type	TTI™ independent	
	Travel	171 mm (6.72 in)	
TIRES		400 MAX	400 MAX XT
Make		Ohtsu 25"	Carlisle ACT 25"
Type		Bias	Radial
Pressure	Up to 235 kg (517 lb)	Front	34.5 kPa (5 PSI) recommended 31 kPa (4.5 PSI) minimum
		Rear	34.5 kPa (5 PSI) recommended 31 kPa (4.5 PSI) minimum
Size	Front	25 x 8 x 12	25 x 8R 12
	Rear	25 x 10 x 12	25 x 11R 12
WHEELS		400 MAX	400 MAX XT
Size	Front	12 x 6	
	Rear	12 x 7.5	
Wheel nuts torque		70 N•m (52 lbf•ft)	
BRAKES		400 MAX	400 MAX XT

Front	Hydraulic, 2 discs	
Rear	Hydraulic, 1 disc	
Parking device	Hydraulic lock (4 wheels)	
LOADING CAPACITY	400 MAX	400 MAX XT
Front rack	45 kg (100 lb)	
Rear rack (including tongue load)	90 kg (200 lb)	
Rear storage box	10 kg (22 lb)	
Total vehicle load allowed (includes operator, all loads and added accessories)	235 kg (517 lb)	
GVWR (Gross Vehicle Weight Rating)	558 kg (1228 lb)	
Towing capacity	500 kg (1100 lb)	
Tongue capacity (included with rear racks)	14 kg (30 lb)	
DIMENSIONS	400 MAX	400 MAX XT
Dry mass	308 kg (679 lb)	338 kg (745 lb)
Overall length	2.39 m (94 in)	
Overall width	1.17 m (46 in)	
Overall height	1.14 m (45 in)	
Seat height	877 mm (35 in)	
Wheel base	1.45 m (57 in)	
Wheel track	Front	965 mm (38 in)
	Rear	914 mm (36 in)
Ground clearance	236 mm (9.3 in)	
Weight distribution (front/rear)	46/54 %	
LIQUIDS and GREASES	400 MAX	400 MAX XT
Engine oil type	SAE 5W30, 4-stroke mineral base. API classification SG, SH or SJ or XP-S 5W40 synthetic 4-stroke oil.	
Coolant	Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP premixed coolant or a coolant specially designed for aluminum engines	
Fuel	Type	Regular unleaded gasoline
	Octane	In North America: 87 (R + M)/2 or higher Everywhere else in the world: 92 RON
Differential	Front	BRP differential oil or XP-S synthetic polyolester oil 75W90 (API GL-5)
	Rear	
Brake	Brake fluid, DOT 4	

CV joint grease	TEXACO HTBJ grease (M3014) ONLY	
Propeller shaft joint grease	SHELL Alvania EP-2 ONLY	
CAPACITIES	400 MAX	400 MAX XT
Fuel tank (including a reserve of approximately 2L (0.6 U.S. gal))	16 L (4.2 U.S. gal)	
Engine / transmission oil	Oil change with filter: 3 L (3.2 U.S. quarts)	
Coolant (including reserve)	2.5 L (0.68 U.S. gal)	
Differential	Front	500 mL (17 U.S. oz)
	Rear	250 mL (8.5 U.S. oz)
Brake fluid	125 mL (4.3 U.S. oz)	

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Technical Data — 500 / 500 XT

ENGINE	500	500 XT
Type	Rotax 4-stroke, liquid cooled, over head cam (OHC)	
Number of cylinder	2	
Number of valves	4 valves with mechanical lifters (adjustable)	
Displacement	499.6 cc (30.45 cu. in)	
Bore	Standard	82 mm (3.23 in)
Stroke	47 mm (1.86 in)	
Compression ratio	10.3:1	
Lubrication	Wet sump with replaceable oil filter (lubrication of engine and transmission simultaneously)	
Decompressor	None	
Exhaust system	USDA approved spark arrestor	
Air filter	synthetic paper with foam	
TRANSMISSION	500	500 XT

SPECIFICATIONS

Transmission		CVT type with sub-transmission L-H-N-R-D
COOLING		500 500 XT
Type		Liquid cooled
Radiator		Front mounted with thermostatic fan
CARBURETION		500 500 XT
EFI	Make	De Lorto throttle body
	Type	46 mm
Idle speed		± 50 1250 RPM
Fuel pump	Make	Bosch
	Type	Pressure (electric)
ELECTRICAL		500 500 XT
Magneto generator	Make	ShinLin
	Type	400 W @ 6000 RPM
Ignition type		IDI (Inductive Discharge Ignition)
Ignition timing		Variable
Engine RPM limiter		8000 RPM (any gear in forward)
Vehicle speed limiter		15 km/h (9 MPH) in reverse
Spark plug	Make	NGK
	Type	DCPR8E
	Gap	0.6 to 0.7 mm (.024 to .027 in)
Number of spark plug		2
Battery	Type	Maintenance free
	Volt	12 Volts, 18 Ah
Starting system		Electric. Start on P, R, N, H or L position (with brake applied)
Headlamp bulb		2 x 35 W
Taillight bulb		8/27
Fuses	Fuel injection fuse 1	5.0 A
	Fuel injection fuse 2	5.0 A
	Fuel pump	7.5 A
	Accessories	20 A
	Fan	20 A
	Main	30 A
	Charging system	30 A
DRIVE TRAIN		500 500 XT
Front differential		Shaft driven/single auto-lock differential (shear pump)
Rear axle		Shaft driven
Turning radius		2.159 m (85 in)
SUSPENSION		500 500 XT

Front	Type	Independent suspension MacPherson type	
	Travel	178 mm (7 in)	
Rear	Type	TTI™ independent	
	Travel	228.6 mm (9 in)	
TIRES		500	500 XT
Make		Ohtsu 25"	Carlisle ACT 25"
Type		Bias	Radial
Pressure	Up to 235 kg (517 lb)	Front	34.5 kPa (5 PSI) maximum 31 kPa (4.5 PSI) minimum
		Rear	48.3 kPa (7 PSI) maximum 31 kPa (4.5 PSI) minimum
Size	Front	25 x 8 x 12	25 x 8 R 12
	Rear	25 x 10 x 12	25 x 11 R 12
WHEELS		500	500 XT
Size	Front	12 x 6	
	Rear	12 x 7.5	
Wheel nuts torque		70 N•m (52 lbf•ft)	
BRAKES		500	500 XT
Front		Hydraulic, 2 discs	
Rear		Hydraulic, 1 disc	
Parking device		Hydraulic lock (4 wheels)	
LOADING CAPACITY		500	500 XT
Front rack		45 kg (100 lb)	
Rear rack (including tongue load)		90 kg (200 lb)	
Rear storage box		10 kg (22 lb)	
Total vehicle load allowed (includes operator, all loads and added accessories)		235 kg (517 lb)	
GVWR (Gross Vehicle Weight Rating)		554 kg (1220 lb)	584 kg (1287 lb)
Towing capacity		591 kg (1300 lb)	
Tongue capacity (included with rear rack)		23 kg (50 lb)	
DIMENSIONS		500	500 XT
Dry mass		313 kg (689 lb)	343 kg (755 lb) + 30.4 kg (67 lb) for XT pkge
Overall length		2.18 m (86 in)	
Overall width		1.17 m (46 in)	
Overall height		1.14 m (45 in)	
Seat height		877 mm (35 in)	

Wheel base		1.29 m (51 in)	
Wheel track	Front	965 mm (38 in)	
	Rear	914 mm (36 in)	
Ground clearance		279 mm (11 in)	279 mm (11 in)
Weight distribution (front/rear)		51/49%	
LIQUIDS and GREASES		500	500 XT
Engine oil type		SAE 5W30, 4-stroke mineral base. API classification SG, SH or SJ or XP-S 5W40 synthetic 4-stroke oil.	
Coolant		Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP premixed coolant or a coolant specially designed for aluminum engines	
Fuel	Type	Regular unleaded gasoline	
	Octane	In North America: 87 (R + M)/2 or higher Everywhere else in the world: 92 RON	
Differential	Front	BRP differential oil or XP-S synthetic polyolester oil 75W90 (API GL-5)	
	Rear		
Brake		Brake fluid, DOT 4	
CV joint grease		TEXACO HTBJ grease (M3014) ONLY	
Propeller shaft joint grease		SHELL Alvania EP-2 ONLY	
CAPACITIES		500	500 XT
Fuel tank (including a reserve of approximately 2L (0.5 U.S. gal))		20 L (5.3 U.S. gal)	
Engine / transmission oil		Oil change with filter: 2 L (2.1 U.S. quarts)	
Coolant		2.5 L (0.68 U.S. gal)	
Differential	Front	500 mL (17 U.S. oz)	
	Rear	250 mL (8.5 U.S. oz)	
Brake fluid		125 mL (4.3 U.S. oz)	

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Technical Data — 500 MAX / 500 MAX XT

ENGINE		500 MAX	500 MAX XT
Type		Rotax 4-stroke, liquid cooled, over head cam (OHC)	
Number of cylinder		2	
Number of valves		4 valves with mechanical lifters (adjustable)	
Displacement		499.6 cc (30.45 cu. in)	
Bore	Standard	82 mm (3.23 in)	
Stroke		47 mm (1.86 in)	
Compression ratio		10.3:1	
Lubrication		Wet sump with replaceable oil filter (lubrication of engine and transmission simultaneously)	
Decompressor		None	
Exhaust system		USDA approved spark arrestor	
Air filter		synthetic paper with foam	
TRANSMISSION		500 MAX	500 MAX XT
Transmission		CVT type with sub-transmission L-H-N-R-D	
COOLING		500 MAX	500 MAX XT
Type		Liquid cooled	
Radiator		Front mounted with thermostatic fan	
CARBURETION		500 MAX	500 MAX XT
EFI	Make	De Lorto throttle body	
	Type	46 mm	
Idle speed		± 50	1300 RPM
Fuel pump	Make	Bosch	
	Type	Pressure (electric)	
ELECTRICAL		500 MAX	500 MAX XT
Magneto generator	Make	ShinLin	
	Type	400 W @ 6000 RPM	
Ignition type		CDI (Capacitor Discharge Ignition)	
Ignition timing		Not adjustable	
Engine RPM limiter		8000 RPM (any gear in forward)	
Vehicle speed limiter		15 km/h (9 MPH) in reverse	

SPECIFICATIONS

Spark plug	Make	NGK		
	Type	DCPR8E		
	Gap	0.6 to 0.7 mm (.024 to .027 in)		
Number of spark plug		2		
Battery	Type	Maintenance free		
	Volt	12 Volts, 18 Ah		
Starting system		Electric. Start on P, R, N, H or L position (with brake applied)		
Headlamp bulb		2 x 35 W		
Taillight bulb		8/27		
Fuses	Fuel injection fuse 1	5.0 A		
	Fuel injection fuse 2	5.0 A		
	Fuel pump	7.5 A		
	Accessories	15 A		
	Fan	20 A		
	Main	30 A		
	Charging system	20 A		
DRIVE TRAIN		500 MAX	500 MAX XT	
Front differential		Shaft driven/single auto-lock differential (shear pump)		
Rear axle		Shaft driven		
Turning radius		2.159 m (85 in)		
SUSPENSION		500 MAX	500 MAX XT	
Front	Type	Independent suspension MacPherson type		
	Travel	178 mm (7 in)		
Rear	Type	TTI™ independent		
	Travel	228.6 mm (9 in)		
TIRES		500 MAX	500 MAX XT	
Make		Ohtsu 25"	Carlisle ACT 25"	
Type		Bias	Radial	
Pressure	Up to 235 kg (517 lb) MAX / Up to 272 kg (600 lb) MAX XT	Front	34.5 kPa (5 PSI) maximum 31 kPa (4.5 PSI) minimum	48.3 kPa (7 PSI) maximum 31 kPa (4.5 PSI) minimum
		Rear	34.5 kPa (5 PSI) maximum 31 kPa (4.5 PSI) minimum	48.3 kPa (7 PSI) maximum 34.5 kPa (5 PSI) minimum
	Size	Front	25 x 8 x 12	25 x 8 R 12
		Rear	25 x 10 x 12	25 x 11 R 12
WHEELS		500 MAX	500 MAX XT	

Size	Front	12 x 6	
	Rear	12 x 7.5	
Wheel nuts torque		70 N•m (52 lbf•ft)	
BRAKES		500 MAX	500 MAX XT
Front		Hydraulic, 2 discs	
Rear		Hydraulic, 1 disc	
Parking device		Hydraulic lock (4 wheels)	
LOADING CAPACITY		500 MAX	500 MAX XT
Front rack		45 kg (100 lb)	
Rear rack (including tongue load)		90 kg (200 lb)	
Rear storage box		10 kg (22 lb)	
Total vehicle load allowed (includes operator, all loads and added accessories)		235 kg (517 lb)	272 kg (600 lb)
GVWR (Gross Vehicle Weight Rating)		554 kg (1220 lb)	584 kg (1287 lb)
Towing capacity		591 kg (1300 lb)	
Tongue capacity (included with rear rack)		23 kg (50 lb)	
DIMENSIONS		500 MAX	500 MAX XT
Dry mass		324 kg (714 lb)	354 kg (780 lb) + 30.4 kg (67 lb) for XT pkge
Overall length		2.18 m (86 in)	
Overall width		1.17 m (46 in)	
Overall height		1.14 m (45 in)	
Seat height		877 mm (35 in)	
Wheel base		1.29 m (51 in)	
Wheel track	Front	965 mm (38 in)	
	Rear	914 mm (36 in)	
Ground clearance		279 mm (11 in)	
Weight distribution (front/rear)		51/49%	
LIQUIDS and GREASES		500 MAX	500 MAX XT
Engine oil type		SAE 5W30, 4-stroke mineral base. API classification SG, SH or SJ or XP-S 5W40 synthetic 4-stroke oil.	
Coolant		Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP premixed coolant or a coolant specially designed for aluminum engines	

Fuel	Type	Regular unleaded gasoline
	Octane	In North America: 87 (R + M)/2 or higher Everywhere else in the world: 92 RON
Differential	Front	BRP differential oil or XP-S synthetic polyolester oil 75W90 (API GL-5)
	Rear	
Brake		Brake fluid, DOT 4
CV joint grease		TEXACO HTBJ grease (M3014) ONLY
Propeller shaft joint grease		SHELL Alvania EP-2 ONLY
CAPACITIES		500 MAX 500 MAX XT
Fuel tank (including a reserve of approximately 2L (0.5 U.S. gal))		20 L (5.3 U.S. gal)
Engine / transmission oil		Oil change with filter: 2 L (2.1 U.S. quarts)
Coolant		2.5 L (0.68 U.S. gal)
Differential	Front	500 mL (17 U.S. oz)
	Rear	250 mL (8.5 U.S. oz)
Brake fluid		125 mL (4.3 U.S. oz)

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Technical Data — 650 / 650 XT

ENGINE	650	650 XT
Type	Rotax 4-stroke, liquid cooled, over head cam (OHC)	
Number of cylinder	2	
Number of valves	4 valves with mechanical lifters (adjustable)	
Displacement	649.6 cc (39.7 cu. in)	
Bore	Standard	82 mm (3.23 in)
Stroke	62 mm (2.44 in)	
Compression ratio	10.1:1	
Lubrication	Wet sump with replaceable filter	

Exhaust system		USDA approved spark arrestor
Air filter		Synthetic paper filter with foam
TRANSMISSION		650 650 XT
Transmission		CVT type with sub-transmission L-H-N-R-P
COOLING		650 650 XT
Type		Liquid cooled
Radiator		Front mounted with thermostatic fan
CARBURETION		650 650 XT
EFI		De Lorto 46 mm throttle body
Idle speed		1250 RPM (not adjustable) ± 50
Fuel pump	Make	BOSCH
	Type	Pressure (electric)
ELECTRICAL		650 650 XT
Magneto generator	Make	ShinLin
	Type	400 W @ 6000 RPM
Ignition type		IDI (Inductive Discharge Ignition)
Ignition timing		variable
Engine RPM limiter		8000 RPM (any gear in forward)
Vehicle speed limiter		15 km/h (9 MPH) in reverse
Spark plug	Make	NGK
	Type	DCPR8E
	Gap	0.6 to 0.7 mm (.024 to .027 in)
Number of spark plug		2
Battery	Type	Maintenance free
	Volt	12 Volts, 18 Ah
Starting system		Electric start. Start on P, R, N, H or L position (with brake applied)
Headlamp bulb		2 x 35 W
Taillight bulb		8/27
Fuses	(F1)	Ignition coil: 5 A
	(F2)	Fan: 20 A
	(F3)	Fuel injectors: 5 A
	(F4)	Speedometer/speed sensor/ tail light: 7.5 A
	(F5)	Fuel pump: 7.5 A
	(F6)	Electronic control module (ECM): 5 A
	(F7)	Accessories: 20 A
	(F8)	Main: 30 A
	(F9)	Main accessories: 30 A
DRIVE TRAIN		650 650 XT

SPECIFICATIONS

Front differential		Shaft driven/single auto-lock differential (shear pump)	
Rear axle		Shaft driven	
Turning radius		2.16 m (85 in)	
SUSPENSION		650	650 XT
Front	Type	Double A-arm	
	Travel	193 mm (7.6 in)	
Rear	Type	TTI™ independent	
	Travel	228.6 mm (9 in)	
TIRES		650	650 XT
Make		Carlisle ACT	
Type		Radial	
Pressure	Up to 235 kg (517 lb)	Front	48.3 kPa (7 PSI) maximum 31 kPa (4.5 PSI) minimum
		Rear	48.3 kPa (7 PSI) maximum 34.5 kPa (5 PSI) minimum
Size	Front	26 x R 8 X 12	
	Rear	26 x R 10 X12	
WHEELS		650	650 XT
Size	Front	12 x 6	
	Rear	12 x 7.5	
Wheel nuts torque		90 N•m (66 lbf•ft)	
BRAKES		650	650 XT
Front		Hydraulic, 2 discs	
Rear		Hydraulic, 1 disc	
Parking device		Hydraulic lock (4 wheels)	
LOADING CAPACITY		650	650 XT
Front rack		45 kg (100 lb)	
Rear rack (including tongue load)		90 kg (200 lb)	
Rear storage box		10 kg (22 lb)	
Total vehicle load allowed (includes operator, all loads and added accessories)		235 kg (517 lb)	
GVWR (Gross Vehicle Weight Rating)		584 kg (1287 lb)	595 kg (1312 lb)
Towing capacity		591 kg (1300 lb)	
Tongue capacity (included with rear rack)		23 kg (50 lb)	
DIMENSIONS		650	650 XT
Dry mass		312 kg (689 lb)	342 kg (755 lb) 30.4 kg + (67 lb) for XT pkge
Overall length		2.18 m (86 in)	
Overall width		1.17 m (46 in)	
Overall height		1.14 m (45 in)	
Seat height		877 mm (35 in)	

Wheel base		1.30 m (51 in)	
Wheel track	Front	965 mm (38 in)	
	Rear	914 mm (36 in)	
Ground clearance		305 mm (12 in)	
Weight distribution (front/rear)		51/49%	
LIQUIDS and GREASES		650	650 XT
Engine oil type		SAE 5W30, API classification SG, SH or SJ.	
Gearbox oil type		XP-S synthetic chaincase oil	
Coolant		Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP premixed coolant or a coolant specially designed for aluminum engines	
Fuel	Type	Regular unleaded gasoline	
	Octane	In North America: 87 (R + M)/2 or higher Everywhere else in the world: 92 RON	
Differential	Front	BRP differential oil or synthetic polyolester oil 75W90 (API GL-5)	
	Rear		
Brake		Brake fluid, DOT 4	
CV joint grease		TEXACO HTBJ grease (M3014) ONLY	
Propeller shaft joint grease		SHELL Alvania EP-2 ONLY	
CAPACITIES		650	650 XT
Fuel tank (add 2 L (0.6 U.S. gal) for reserve)		20 L (5.3 U.S. gal)	
Engine oil		Oil change with filter: 2 L (0.6 U.S. gal)	
Gearbox oil		400 ml (14 U.S. oz)	
Coolant		2.5 L (0.68 U.S. gal)	
Differential	Front	500 mL (17 U.S. oz)	
	Rear	250 mL (8.5 U.S. oz)	
Brake fluid		125 mL (4.3 U.S. oz)	

A: Ampere

RPM: Revolution Per Minute

V: Volt

Ah: Ampere Hour

USDA: United States Department of Agriculture

W: Watt

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Technical Data — 650 MAX / 650 MAX XT

ENGINE		650 MAX	650 MAX XT
Type	Rotax 4-stroke, liquid cooled, over head cam (OHC)		
Number of cylinder	2		
Number of valves	4 valves with mechanical lifters (adjustable)		
Displacement	649.6 cc (39.7 cu. in)		
Bore	Standard	82 mm (3.23 in)	
Stroke	62 mm (2.44 in)		
Compression ratio	10.1:1		
Lubrication	Wet sump with replaceable oil filter		
Exhaust system	USDA approved spark arrestor		
Air filter	Synthetic paper filter with foam		
TRANSMISSION		650 MAX	650 MAX XT
Transmission	CVT type with sub-transmission L-H-N-R-P		
COOLING		650 MAX	650 MAX XT
Type	Liquid cooled		
Radiator	Front mounted with thermostatic fan		
CARBURETION		650 MAX	650 MAX XT
EFI	De Lorto 46 mm throttle body		
Idle speed	± 50	1250 RPM (not adjustable)	
Fuel pump	Make	BOSCH	
	Type	Pressure (electric)	
ELECTRICAL		650 MAX	650 MAX XT
Magneto generator	Make	ShinLin	
	Type	400 W @ 6000 RPM	
Ignition type	IDI (Inductive Discharge Ignition)		
Ignition timing	Variable		
Engine RPM limiter	8000 RPM (any gear in forward)		
Vehicle speed limiter	15 km/h (9 MPH) in reverse		
Spark plug	Make	NGK	
	Type	DCPR8E	
	Gap	0.6 to 0.7 mm (.024 to .027 in)	
Number of spark plug	2		

Battery	Type	Maintenance free	
	Volt	12 Volts, 18 Ah	
Starting system		Electric start. Start on P, R, N, H or L position (with brake applied)	
Headlamp bulb		2 x 35 W	
Taillight bulb		8/27	
Fuses	(F1)	Ignition coil: 5 A	
	(F2)	Fan: 20 A	
	(F3)	Fuel injectors: 5 A	
	(F4)	Speedometer/speed sensor/ tail light: 7.5 A	
	(F5)	Fuel pump: 7.5 A	
	(F6)	Electronic control module (ECM): 5 A	
	(F7)	Accessories: 20 A	
	(F8)	Main: 30 A	
	(F9)	Main accessories: 30 A	
DRIVE TRAIN		650 MAX	650 MAX XT
Front differential		Shaft driven/single auto-lock differential (shear pump)	
Rear axle		Shaft driven	
Turning radius		2.4 m (94 in)	
SUSPENSION		650 MAX	650 MAX XT
Front	Type	Double A-arm	
	Travel	193 mm (7.6 in)	
Rear	Type	TTI™ independent	
	Travel	228.6 mm (9 in)	
TIRES		650 MAX	650 MAX XT
Make		Carlisle ACT	
Type		Radial	
Pressure Std Models	Up to 272 kg (600 lb)	Front	48.3 kPa (7 PSI) maximum 31 kPa (4.5 PSI) minimum
		Rear	48.3 kPa (7 PSI) maximum 34.5 kPa (5 PSI) minimum
Size	Front	26 x 8 x 12	
	Rear	26 x 10 x 12	
WHEELS		650 MAX	650 MAX XT
Size	Front	12 x 6	
	Rear	12 x 7.5	
Wheel nuts torque		90 N•m (66 lbf•ft)	
BRAKES		650 MAX	650 MAX XT
Front		Hydraulic, 2 discs	
Rear		Hydraulic, 1 disc	
Parking device		Hydraulic lock (4 wheels)	

SPECIFICATIONS

LOADING CAPACITY		650 MAX	650 MAX XT
Front rack		45 kg (100 lb)	
Rear rack (including tongue load)		90 kg (200 lb)	
Rear storage box		10 kg (22 lb)	
Total vehicle load allowed (includes operator, all loads and added accessories)		272 kg (600 lb)	
GVWR (Gross Vehicle Weight Rating)		649 kg (1430 lb)	
Towing capacity		591 kg (1300 lb)	
Tongue capacity (included with rear rack)		23 kg (50 lb)	
DIMENSIONS		650 MAX	650 MAX XT
Dry mass		330 (727 lb)	360 kg (793 lb) + 30.4 kg (67 lb) for XT pkge
Overall length		2.39 m (94 in)	
Overall width		1.17 m (46 in)	
Overall height		1.14 m (45 in)	
Seat height		877 mm (35 in)	
Wheel base		1.50 m (59 in)	
Wheel track	Front	965 mm (38 in)	
	Rear	914 mm (36 in)	
Ground clearance		305 mm (12 in)	
Weight distribution (front/rear)		48/52%	
LIQUIDS and GREASES		650 MAX	650 MAX XT
Engine oil type		SAE 5W30, API classification SG, SH or SJ.	
Gearbox oil type		XP-S synthetic chaincase oil	
Coolant		Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP premixed coolant or a coolant specially designed for aluminum engines	
Fuel	Type	Regular unleaded gasoline	
	Octane	In North America: 87 (R + M)/2 or higher Everywhere else in the world: 92 RON	
Differential	Front	BRP differential oil or synthetic polyolester oil 75W90 (API GL-5)	
	Rear		
Brake		Brake fluid, DOT 4	
CV joint grease		TEXACO HTBJ grease (M3014) ONLY	
Propeller shaft joint grease		SHELL Alvania EP-2 ONLY	

CAPACITIES		650 MAX	650 MAX XT
Fuel tank		20 L (5.3 U.S. gal)	
Engine oil		Oil change with filter: 2 L (2.1 U.S. quarts)	
Gearbox oil		400 ml (14 U.S. oz)	
Coolant (includes reserve)		2.5 L (0.68 U.S. gal)	
Differential	Front	500 mL (17 U.S. oz)	
	Rear	250 mL (8.5 U.S. oz)	
Brake fluid		125 mL (4.3 U.S. oz)	

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Technical Data — 800 / 800 XT

ENGINE	800	800 XT
Type	Rotax 4-stroke, liquid cooled, over head cam (OHC)	
Number of cylinder	2	
Number of valves	4 valves with mechanical lifters (adjustable)	
Displacement	799.9 cc (48.8 cu. in)	
Bore	Standard	91 mm (3.58 in)
Stroke	62 mm (2.44 in)	
Compression ratio	10.3:1	
Lubrication	Wet sump with replaceable oil filter	
Exhaust system	USDA approved spark arrestor	
Air filter	Synthetic paper filter with foam	
TRANSMISSION	800	800 XT
Transmission	CVT type with sub-transmission L-H-N-R-P	
COOLING	800	800 XT
Type	Liquid cooled	
Radiator	Front mounted with thermostatic fan	
CARBURETION	800	800 XT

EFI		De Lorto 46 mm throttle body
Idle speed ± 50		1250 RPM (not adjustable)
Fuel pump	Make	BOSCH
	Type	Pressure (electric)
ELECTRICAL		800 800 XT
Magneto generator	Make	ShinLin
	Type	400 W @ 6000 RPM
Ignition type		IDI (Inductive Discharge Ignition)
Ignition timing		Variable
Engine RPM limiter		8000 RPM (any gear in forward)
Vehicle speed limiter		15 km/h (9 MPH) in reverse
Spark plug	Make	NGK
	Type	DCPR8E
	Gap	0.6 to 0.7 mm (.024 to .027 in)
Number of spark plug		2
Battery	Type	Maintenance free
	Volt	12 Volts, 18 Ah
Starting system		Electric start. Start on P, R, N, H or L position (with brake applied)
Headlamp bulb		2 x 35 W
Taillight bulb		8/27
Fuses	(F1)	Ignition coil: 5 A
	(F2)	Fan: 20 A
	(F3)	Fuel injectors: 5 A
	(F4)	Speedometer/speed sensor/ tail light: 7.5 A
	(F5)	Fuel pump: 7.5 A
	(F6)	Electronic control module (ECM): 5 A
	(F7)	Accessories: 20 A
	(F8)	Main: 30 A
	(F9)	Main accessories: 30 A
DRIVE TRAIN		800 800 XT
Front differential		Shaft driven/single auto-lock differential (shear pump)
Rear axle		Shaft driven
Turning radius		2.16 m (85 in)
SUSPENSION		800 800 XT
Front	Type	Double A-arm
	Travel	193 mm (7.6 in)
Rear	Type	TTI™ independent
	Travel	228.6 mm (9 in)
TIRES		800 800 XT

Make		Carlisle ACT	
Type		Radial	
Pressure Std Models	Up to 235 kg (517 lb)	Front	48.3 kPa (7 PSI) maximum 31 kPa (4.5 PSI) minimum
		Rear	48.3 kPa (7 PSI) maximum 34.5 kPa (5 PSI) minimum
Size	Front	26 x 8 x 12	
	Rear	26 x 10 x 12	
WHEELS		800	800 XT
Size	Front	12 x 6	
	Rear	12 x 7.5	
Wheel nuts torque		90 N•m (66 lbf•ft)	
BRAKES		800	800 XT
Front		Hydraulic, 2 discs	
Rear		Hydraulic, 1 disc	
Parking device		Hydraulic lock (4 wheels)	
LOADING CAPACITY		800	800 XT
Front rack		45 kg (100 lb)	
Rear rack (including tongue load)		90 kg (200 lb)	
Rear storage box		10 kg (22 lb)	
Total vehicle load allowed (includes operator, all loads and added accessories)		235 kg (517 lb)	
GVWR (Gross Vehicle Weight Rating)		584 kg (1287 lb)	
Towing capacity		591 kg (1300 lb)	
Tongue capacity (with rear rack included)		23 kg (50 lb)	
DIMENSIONS		800	800 XT
Dry mass		312 kg (689 lb)	342 kg (755 lb) + 30.4 kg (67 lb) for XT pkge
Overall length		2.18 m (86 in)	
Overall width		1.17 m (46 in)	
Overall height		1.14 m (45 in)	
Seat height		877 mm (34.5 in)	
Wheel base		1.30 m (51 in)	
Wheel track	Front	965 mm (38 in)	
	Rear	914 mm (36 in)	
Ground clearance		305 mm (12 in)	
Weight distribution (front/rear)		51/49%	
LIQUIDS and GREASES		800	800 XT
Engine oil type		SAE 5W/30, API classification SG, SH or SJ.	
Gearbox oil type		XP-S synthetic chaincase oil	

SPECIFICATIONS

Coolant		Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP premixed coolant or a coolant specially designed for aluminum engines
Fuel	Type	Regular unleaded gasoline
	Octane	In North America: 87 (R + M)/2 or higher Everywhere else in the world: 92 RON
Differential	Front	BRP differential oil or synthetic polyolester oil 75W90 (API GL-5)
	Rear	
Brake		Brake fluid, DOT 4
CV joint grease		TEXACO HTBJ grease (M3014) ONLY
Propeller shaft joint grease		SHELL Alvania EP-2 ONLY
CAPACITIES		800 800 XT
Fuel tank		20 L (5.3 U.S. gal)
Engine oil		Oil change with filter: 2 L (2.1 U.S. quarts)
Gearbox oil		400 ml (14 U.S. oz)
Coolant (includes reserve)		2.5 L (0.68 U.S. gal)
Differential	Front	500 mL (17 U.S. oz)
	Rear	250 mL (8.5 U.S. oz)
Brake fluid		125 mL (4.3 U.S. oz)

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Technical Data — 800 MAX / 800 MAX XT

ENGINE	800 MAX	800 MAX XT
Type	Rotax 4-stroke, liquid cooled, over head cam (OHC)	
Number of cylinder	2	
Number of valves	4 valves with mechanical lifters (adjustable)	
Displacement	799.9 cc (48.8 cu. in)	

Bore	Standard	91 mm (3.58 in)
Stroke		62 mm (2.44 in)
Compression ratio		10.3:1
Lubrication		Wet sump with replaceable oil filter
Exhaust system		USDA approved spark arrester
Air filter		Synthetic paper filter with foam
TRANSMISSION	800 MAX	800 MAX XT
Transmission	CVT type with sub-transmission L-H-N-R-P	
COOLING	800 MAX	800 MAX XT
Type	Liquid cooled	
Radiator	Front mounted with thermostatic fan	
CARBURETION	800 MAX	800 MAX XT
EFI	De Lorto 46 mm throttle body, 1 injector per cylinder	
Idle speed	± 50	1250 RPM (not adjustable)
Fuel pump	Make	BOSCH
	Type	Pressure (electric)
ELECTRICAL	800 MAX	800 MAX XT
Magneto generator	Make	ShinLin
	Type	400 W @ 6000 RPM
Ignition type	IDI (Inductive Discharge Ignition)	
Ignition timing	Variable	
Engine RPM limiter	8000 RPM (any gear in forward)	
Vehicle speed limiter	15 km/h (9 MPH) in reverse	
Spark plug	Make	NGK
	Type	DCPR8E
	Gap	0.6 to 0.7 mm (.024 to .027 in)
Number of spark plug	2	
Battery	Type	Maintenance free
	Volt	12 Volts, 18 Ah
Starting system	Electric start. Start on P, R, N, H or L position (with brake applied)	
Headlamp bulb	2 x 35 W	
Taillight bulb	8/27	

Fuses	(F1)	Ignition coil: 5 A	
	(F2)	Fan: 20 A	
	(F3)	Fuel injectors: 5 A	
	(F4)	Speedometer/speed sensor/ tail light: 7.5 A	
	(F5)	Fuel pump: 7.5 A	
	(F6)	Electronic control module (ECM): 5 A	
	(F7)	Accessories: 20 A	
	(F8)	Main: 30 A	
	(F9)	Main accessories: 30 A	
DRIVE TRAIN		800 MAX	800 MAX XT
Front differential		Shaft driven/single auto-lock differential (shear pump)	
Rear axle		Shaft driven	
Turning radius		2.4 m (94 in)	
SUSPENSION		800 MAX	800 MAX XT
Front	Type	Double A-arm	
	Travel	193 mm (7.6 in)	
Rear	Type	TTI™ independent	
	Travel	228.6 mm (9 in)	
TIRES		800 MAX	800 MAX XT
Make		Carlisle ACT	
Type		Radial	
Pressure Std Models	Up to 272 kg (600 lb)	Front	48.3 kPa (7 PSI) maximum 31 kPa (4.5 PSI) minimum
		Rear	48.3 kPa (7 PSI) maximum 34.5 kPa (5 PSI) minimum
Size	Front	26 x 8 x 12	
	Rear	26 x 10 x 12	
WHEELS		800 MAX	800 MAX XT
Size	Front	12 x 6	
	Rear	12 x 7.5	
Wheel nuts torque		90 N•m (66 lbf•ft)	
BRAKES		800 MAX	800 MAX XT
Front		Hydraulic, 2 discs	
Rear		Hydraulic, 1 disc	
Parking device		Hydraulic lock (4 wheels)	
LOADING CAPACITY		800 MAX	800 MAX XT
Front rack		45 kg (100 lb)	
Rear rack (including tongue load)		90 kg (200 lb)	
Rear storage box		10 kg (22 lb)	
Total vehicle load allowed (includes operator, all loads and added accessories)		272 kg (600 lb)	

GVWR (Gross Vehicle Weight Rating)		649 kg (1430 lb)	
Towing capacity		591 kg (1300 lb)	
Tongue capacity (included with rear rack)		23 kg (50 lb)	
DIMENSIONS		800 MAX	800 MAX XT
Dry mass		329 kg (727 lb)	359 kg (793 lb) + 34.5 kg (67 lb) for XT pkge
Overall length		2.39 m (94 in)	
Overall width		1.17 m (46 in)	
Overall height		1.14 m (45 in)	
Seat height		877 mm (35 in)	
Wheel base		1.50 m (59 in)	
Wheel track	Front	965 mm (38 in)	
	Rear	914 mm (36 in)	
Ground clearance		305 mm (12 in)	
Weight distribution (front/rear)		48/52%	
LIQUIDS and GREASES		800 MAX	800 MAX XT
Engine oil type		SAE 5W/30, API classification SG, SH or SJ.	
Gearbox oil type		XP-S synthetic chaincase oil	
Coolant		Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP premixed coolant or a coolant specially designed for aluminum engines	
Fuel	Type	Regular unleaded gasoline	
	Octane	In North America: 87 (R + M)/2 or higher Everywhere else in the world: 92 RON	
Differential	Front	BRP differential oil or synthetic polyolester oil 75W90 (API GL-5)	
	Rear		
Brake		Brake fluid, DOT 4	
CV joint grease		TEXACO HTBJ grease (M3014) ONLY	
Propeller shaft joint grease		SHELL Alvania EP-2 ONLY	
CAPACITIES		800 MAX	800 MAX XT
Fuel tank		20 L (5.3 U.S. gal)	
Engine oil		Oil change with filter: 2 L (2.1 U.S. quarts)	
Gearbox oil		400 ml (14 U.S. oz)	
Coolant (includes reserve)		2.5 L (0.68 U.S. gal)	

SPECIFICATIONS

Differential	Front	500 mL (17 U.S. oz)
	Rear	250 mL (8.5 U.S. oz)
Brake fluid		125 mL (4.3 U.S. oz)

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Technical Data — 800 MAX LIMITED

ENGINE		
Type	Rotax 4-stroke, liquid cooled, over head cam (OHC)	
Number of cylinder	2	
Number of valves	4 valves with mechanical lifters (adjustable)	
Displacement	799.9 cc (48.8 cu. in)	
Bore	Standard	91 mm (3.58 in)
Stroke	62 mm (2.44 in)	
Compression ratio	10.3:1	
Lubrication	Wet sump with replaceable oil filter	
Exhaust system	USDA approved spark arrestor	
Air filter	Synthetic paper filter with foam	
TRANSMISSION		
Transmission	CVT type with sub-transmission L-H-N-R-P	
COOLING		
Type	Liquid cooled	
Radiator	Front mounted with thermostatic fan	
CARBURETION		
EFI	De Lorto 46 mm throttle body, 1 injector per cylinder	
Idle speed	± 50	1250 RPM (not adjustable)
Fuel pump	Make	BOSCH
	Type	Pressure (electric)

ELECTRICAL			
Magnet generator	Make	ShinLin	
	Type	400 W @ 6000 RPM	
Ignition type		IDI (Inductive Discharge Ignition)	
Ignition timing		Variable	
Engine RPM limiter		8000 RPM (any gear in forward)	
Vehicle speed limiter		15 km/h (9 MPH) in reverse	
Spark plug	Make	NGK	
	Type	DCPR8E	
	Gap	0.6 to 0.7 mm (.024 to .027 in)	
Number of spark plug		2	
Battery	Type	Maintenance free	
	Volt	12 Volts, 18 Ah	
Starting system		Electric start. Start on P, R, N, H or L position (with brake applied)	
Headlamp bulb		2 x 35 W	
Taillight bulb		8/27	
Fuses	(F1)	Ignition coil: 5 A	
	(F2)	Fan: 20 A	
	(F3)	Fuel injectors: 5 A	
	(F4)	Speedometer/speed sensor/ tail light: 7.5 A	
	(F5)	Fuel pump: 7.5 A	
	(F6)	Electronic control module (ECM): 5 A	
	(F7)	Accessories: 20 A	
	(F8)	Main: 30 A	
	(F9)	Main accessories: 30 A	
DRIVE TRAIN			
Front differential		Shaft driven/single auto-lock differential (shear pump)	
Rear axle		Shaft driven	
Turning radius		2.4 m (94 in)	
SUSPENSION			
Front	Type	Double A-arm	
	Travel	193 mm (7.6 in)	
Rear	Type	TTI™ independent	
	Travel	228.6 mm (9 in)	
TIRES			
Make		Carlisle ACT	
Type		Radial	
Pressure Std Models	Up to 272 kg (600 lb)	Front	48.3 kPa (7 PSI) maximum 31 kPa (4.5 PSI) minimum
		Rear	48.3 kPa (7 PSI) maximum 34.5 kPa (5 PSI) minimum

Size	Front	26 x 8 x 12
	Rear	26 x 10 x 12
WHEELS		
Size	Front	12 x 6
	Rear	12 x 7.5
Wheel nuts torque		90 N•m (66 lbf•ft)
BRAKES		
Front		Hydraulic, 2 discs
Rear		Hydraulic, 1 disc
Parking device		Hydraulic lock (4 wheels)
LOADING CAPACITY		
Front rack		45 kg (100 lb)
Rear rack (including tongue load)		90 kg (200 lb)
Rear storage box		10 kg (22 lb)
Total vehicle load allowed (includes operator, all loads and added accessories)		272 kg (600 lb)
GVWR (Gross Vehicle Weight Rating)		649 kg (1430 lb)
Towing capacity		591 kg (1300 lb)
Tongue capacity (included with rear rack)		23 kg (50 lb)
DIMENSIONS		
Dry mass		362 kg (798 lb)
Overall length		2.39 m (94 in)
Overall width		1.17 m (46 in)
Overall height		1.14 m (45 in)
Seat height		877 mm (35 in)
Wheel base		1.50 m (59 in)
Wheel track	Front	965 mm (38 in)
	Rear	914 mm (36 in)
Ground clearance		305 mm (12 in)
Weight distribution (front/rear)		48/52%
LIQUIDS and GREASES		
Engine oil type		SAE 5W30, API classification SG, SH or SJ.
Gearbox oil type		XP-S synthetic chaincase oil
Coolant		Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP premixed coolant or a coolant specially designed for aluminum engines
Fuel	Type	Regular unleaded gasoline
	Octane	In North America: 87 (R + M)/2 or higher Everywhere else in the world: 92 RON

Differential	Front	BRP differential oil or synthetic polyolester oil 75W90 (API GL-5)
	Rear	
Brake		Brake fluid, DOT 4
CV joint grease		TEXACO HTBJ grease (M3014) ONLY
Propeller shaft joint grease		SHELL Alvania EP-2 ONLY
CAPACITIES		
Fuel tank		20 L (5.3 U.S. gal)
Engine oil		Oil change with filter: 2 L (2.1 U.S. quarts)
Gearbox oil		400 ml (14 U.S. oz)
Coolant (includes reserve)		2.5 L (0.68 U.S. gal)
Differential	Front	500 mL (17 U.S. oz)
	Rear	250 mL (8.5 U.S. oz)
Brake fluid		125 mL (4.3 U.S. oz)

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Technical Data — RENEGADE

ENGINE	
Type	Rotax 4-stroke, liquid cooled, over head cam (OHC)
Number of cylinder	2
Number of valves	4 valves with mechanical lifters (adjustable)
Displacement	799.9 cc (48.8 cu. in)
Bore	Standard 91 mm (3.58 in)
Stroke	62 mm (2.44 in)
Compression ratio	10.3:1
Lubrication	Wet sump with replaceable oil filter
Exhaust system	USDA approved spark arrestor
Air filter	Synthetic paper filter with foam
TRANSMISSION	

SPECIFICATIONS

Transmission		CVT type with sub-transmission L-H-N-R-P
COOLING		
Type		Liquid cooled
Radiator		Front mounted with thermostatic fan
CARBURETION		
EFI		De Lorto 46 mm throttle body, 1 injector per cylinder
Idle speed ± 50		1250 RPM (not adjustable)
Fuel pump	Make	BOSCH
	Type	Pressure (electric)
ELECTRICAL		
Magneto generator	Make	ShinLin
	Type	400 W @ 6000 RPM
Ignition type		IDI (Inductive Discharge Ignition)
Ignition timing		Variable
Engine RPM limiter		8000 RPM (any gear in forward)
Vehicle speed limiter		15 km/h (9 MPH) in reverse
Spark plug	Make	NGK
	Type	DCPR8E
	Gap	0.6 to 0.7 mm (.024 to .027 in)
Number of spark plug		2
Battery	Type	Maintenance free
	Volt	12 Volts, 18 Ah
Starting system		Electric start. Start on P, R, N, H or L position (with brake applied)
Headlamp bulb		2 x 35 W
Taillight bulb		8/27
Fuses	(F1)	Ignition coil: 5 A
	(F2)	Fan: 20 A
	(F3)	Fuel injectors: 5 A
	(F4)	Speedometer/speed sensor/ tail light: 7.5 A
	(F5)	Fuel pump: 7.5 A
	(F6)	Electronic control module (ECM): 5 A
	(F7)	Accessories: 20 A
	(F8)	Main: 30 A
	(F9)	Main accessories: 30 A
DRIVE TRAIN		
Front differential		Shaft driven/single auto-lock differential (shear pump)
Rear axle		Shaft driven

Turning radius		2.4 m (94 in)	
SUSPENSION			
Front	Type	Double A-arm	
	Travel	193 mm (7.6 in)	
Rear	Type	TTI™ independent	
	Travel	228.6 mm (9 in)	
TIRES			
Make		Carlisle ACT	
Type		Radial	
Pressure Std Models	Up to 272 kg (600 lb)	Front	48.3 kPa (7 PSI) maximum 31 kPa (4.5 PSI) minimum
		Rear	48.3 kPa (7 PSI) maximum 34.5 kPa (5 PSI) minimum
Size	Front	25 x 8 x 12	
	Rear	25 x 10 x 12	
WHEELS			
Size	Front	12 x 6	
	Rear	12 x 7.5	
Wheel nuts torque		90 N•m (66 lbf•ft)	
BRAKES			
Front		Hydraulic, 2 discs	
Rear		Hydraulic, 1 disc	
Parking device		Hydraulic lock (4 wheels)	
LOADING CAPACITY			
Front rack		45 kg (100 lb)	
Rear rack (including tongue load)		90 kg (200 lb)	
Rear storage box		10 kg (22 lb)	
Total vehicle load allowed (includes operator, all loads and added accessories)		272 kg (600 lb)	
GVWR (Gross Vehicle Weight Rating)		649 kg (1430 lb)	
Towing capacity		591 kg (1300 lb)	
Tongue capacity (included with rear rack)		23 kg (50 lb)	
DIMENSIONS			
Dry mass		294 kg (649 lb)	
Overall length		2.39 m (94 in)	
Overall width		1.17 m (46 in)	
Overall height		1.14 m (45 in)	
Seat height		877 mm (35 in)	
Wheel base		1.50 m (59 in)	
Wheel track	Front	965 mm (38 in)	
	Rear	914 mm (36 in)	
Ground clearance		254 mm (10 in)	
Weight distribution (front/rear)		48/52%	
LIQUIDS and GREASES			

Engine oil type		SAE 5W30, API classification SG, SH or SJ.
Gearbox oil type		XP-S synthetic chaincase oil
Coolant		Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP premixed coolant or a coolant specially designed for aluminum engines
Fuel	Type	Regular unleaded gasoline
	Octane	In North America: 87 (R + M)/2 or higher Everywhere else in the world: 92 RON
Differential	Front	BRP differential oil or synthetic polyolester oil 75W90 (API GL-5)
	Rear	
Brake		Brake fluid, DOT 4
CV joint grease		TEXACO HTBJ grease (M3014) ONLY
Propeller shaft joint grease		SHELL Alvania EP-2 ONLY
CAPACITIES		
Fuel tank		20 L (5.3 U.S. gal)
Engine oil		Oil change with filter: 2 L (2.1 U.S. quarts)
Gearbox oil		400 ml (14 U.S. oz)
Coolant (includes reserve)		2.5 L (0.68 U.S. gal)
Differential	Front	500 mL (17 U.S. oz)
	Rear	250 mL (8.5 U.S. oz)
Brake fluid		125 mL (4.3 U.S. oz)
ENGINE		
Type		Rotax V-810, 4-stroke, liquid cooled, single over head cam (SOHC)
Number of cylinder		2
Number of valves		8 valves (mechanical adjustment)
Displacement		800 cc (48.82 cu. in)
Bore	Standard	91 mm (3.58 in)
Stroke		61.5 mm (2.42 in)
Compression ratio		10.3:1
Lubrication		Wet sump with replaceable oil filter
Exhaust system		USDA approved spark arrestor
Air filter		Synthetic paper filter with foam
TRANSMISSION		
Transmission		CVT (Continuously Variable Transmission)
COOLING		
Type		Liquid

Radiator		Front mounted with thermostatic fan
CARBURETION		
EFI		De Lorto 46 mm throttle body, 1 injector per cylinder
Idle speed		± 50 1250 RPM (not adjustable)
Fuel pump	Make	BOSCH
	Type	Electrical (in fuel tank)
ELECTRICAL		
Magneto generator	Make	ShinLin
	Type	400 W @ 6000 RPM
Ignition type		IDI (Inductive Discharge Ignition)
Ignition timing		Not adjustable
Engine RPM limiter		8000 RPM (any gear in forward) — 3200 RPM (in reverse)
Vehicle speed limiter		15 km/h (9 MPH) in reverse
Spark plug	Make	NGK
	Type	DCPR8E
	Gap	0.7 to 0.8 mm (.028 to .032 in)
Number of spark plug		2
Battery	Type	Maintenance free
	Volt	12 Volts, 18 Ah
Starting system		Electric start. Start on P, R, N, H or L position (with brake applied)
Headlamp bulb		4 x 60 W
Taillight bulb		8/26
Fuses	Ignition coils	5 A
	Fan	20 A
	Fuel injectors	5 A
	Speedometer/speed sensor/ tail light	7.5 A
	Fuel pump	7.5 A
	Electronic control module (ECM)	5 A
	Accessories	20 A
	Main	30 A
	Main accessories	30 A
DRIVE TRAIN		
Front differential		Shaft driven/single auto-lock differential
Rear axle		Shaft driven/single differential
Turning radius		2.16 m (84 in)
SUSPENSION		

SPECIFICATIONS

Front	Type	Double A-arm	
	Travel	229 mm (9 in)	
Rear	Type	TTI™ independent	
	Travel	254 mm (10 in)	
TIRES			
Make		ITP Holeshot	
Type		Radial	
Pressure	Front	48.3 kPa (7 PSI) maximum	34.5 kPa (5 PSI) minimum
	Rear	48.3 kPa (7 PSI) maximum	37.9 kPa (5.5 PSI) minimum
Size	Front	AT205-80R12	
	Rear	AT270-60R12	
WHEELS			
Size	Front	305 x 152 mm (12 x 6 in)	
	Rear	305 x 190.5 mm (12 x 7.5 in)	
Wheel nuts torque		90 N•m (66 lbf•ft)	
BRAKES			
Front		Hydraulic, 2 discs	
Rear		Hydraulic, 1 disc	
Parking device		Hydraulic lock (4 wheels)	
LOADING CAPACITY			
Rear storage box		4.5 kg (10 lb)	
Total vehicle load allowed (includes operator, all loads and added accessories)		141 kg (310 lb)	
GVWR (Gross Vehicle Weight Rating)		476 kg (1050 lb)	

DIMENSIONS		
Dry mass		275 kg (607 lb)
Overall length		2.18 m (86 in)
Overall width		1.17 m (46 in)
Overall height		1.14 m (45 in)
Seat height		877 mm (35 in)
Wheel base		1.30 m (51 in)
Wheel track	Front	965 mm (38 in)
	Rear	914 mm (36 in)
Ground clearance		279 mm (11 in)
Weight distribution (front/rear)		51/49%
LIQUIDS and GREASES		
Engine oil type		SAE 5W30, API classification SM, SL or SJ.
Gearbox oil type		XP-S synthetic chaincase oil
Coolant		Ethylene-glycol/water mix (50% coolant, 50% distilled water). Use BRP premixed coolant (P/N 219 700 362) or a coolant specially designed for aluminum engines
Fuel	Type	Regular unleaded gasoline
	Octane	In North America: 87 (R + M)/2 or higher Everywhere else in the world: 92 RON
Differential	Front	BRP differential oil (P/N 293 600 043) or synthetic polyolester oil 75W90 (API GL-5)
	Rear	
Brake fluid		DOT 4
CV joint grease		CV joint grease (P/N 293 550 019)
Propeller shaft joint grease		Synthetic grease (P/N 293 550 033)
CAPACITIES		
Fuel tank		20 L (5.3 U.S. gal)
Engine oil		Oil change with filter: 2 L (2.1 U.S. quarts)
Gearbox oil		400 ml (14 U.S. oz)
Coolant (includes reserve)		2.5 L (2.65 U.S. quarts)
Differential	Front	500 mL (17 U.S. oz)
	Rear	250 mL (8.5 U.S. oz)
Brake fluid		125 mL (4.3 U.S. oz)

A: Ampere
RPM: Revolution Per Minute
V: Volt
Ah: Ampere Hour
USDA: United States Department of Agriculture
W: Watt

Because of its ongoing commitment to product quality and innovation, BRP reserves the right, at any time, to make changes in design and specifications and/or to make additions to, or improvements in its products without imposing upon itself any obligation to install them on its previously manufactured products.