



**ATV**  
**SERVICE**  
 Bulletin



July 8, 2010

Subject: **Can-Am™ ATV High Altitude**

No. **2011-6**

**REVISION ►2◀**  
**►October 25,**  
**2010◀**

**►UNDERLINE TEXT(S) BETWEEN ARROWS IS (ARE) MODIFIED ELEMENT(S) TO THE PREVIOUS PUBLICATION.◀**

YEAR	MODEL NAME	MODEL NUMBER	SERIAL NUMBER
2011	All	All	All

Standard carburetor and drive pulley calibration on above-listed models were set at factory for sea level riding. Refer to appropriate *SHOP MANUAL* for detailed specifications.

When an ATV is used at 1 200 m (4,000 ft) or more above sea level, modifications to carburetor and/or drive pulley settings must be performed as per tables contained in this document.

**IMPORTANT: Should vehicle return to lower altitudes, carburetor and drive pulley calibration must be set back accordingly.**

## **ATV HIGH ALTITUDE PARTS RETURN PROGRAM**

**NOTE: Do not use a warranty claim form;** submit via BOSSWeb a Return Authorization Request (see BOSSWeb Return Authorization Request section). For non-BOSSWeb users only, use parts return form at the end of this bulletin.

Purchase from BRP the necessary parts for high altitude application. Anything other than a BRP part will not be accepted.

**►Submit via BOSSWeb a RETURN AUTHORIZATION REQUEST and once approved by BRP, return the original UNUSED centrifugal levers, with a copy of the RETURN ORDER CONFIRMATION FORM. Attach proof that replacement parts were purchased from BRP (invoice or packing slip).◀**

**NOTE:** Centrifugal levers are sold by package with the required quantity to update a model to high altitude. The same quantity of levers must be returned for each specific model.

Credit for the original parts will be issued to dealer's account through the regular parts system, credited at 100% of parts cost (current dealer cost), no handling.

Levers will be inspected when received and, if found used, will be returned to the dealer without credit. Note that a 30\$ handling fee plus freight charge could be applied to dealer account.

**NOTE: ►Only centrifugal levers are allowed to be returned with this program; no other parts can be returned. No labor credit.◀**

Be sure to match and ship all centrifugal levers with the same form.

**NOTE:** This program is also applicable for previous model year ATVs; refer to appropriate model year High Altitude Service Bulletin.

Return to:

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## U.S. Dealers

Bombardier Recreational Products Inc.,  
c/o Affiliated,  
60 Maple Street  
Derby Line, VT  
05830  
ATTN: HIGH ALTITUDE PARTS RETURN

## Canadian Dealers

Bombardier Recreational Products Inc.,  
75 J.-A.-Bombardier,  
Sherbrooke, Qc  
J1L 1W3  
ATTN: HIGH ALTITUDE PARTS RETURN

## International Dealers

All parts must be returned to the distributor or BRP regional office. Contact them for complete address and shipping information.

# BOSSWEB RETURN AUTHORIZATION REQUEST

**NOTICE** In our continuing efforts to improve our return process, as we announced in our *WHAT'S NEWS* Dealer Support Group journal July 2009, all authorization numbers have to be requested via BOSSWeb to return the parts that were removed. To proceed, please follow these quick and easy steps:

1. From the home page, choose the "Parts" menu, and select **Return Entry**.
2. For "Return Type", select **Return Program**.
3. For "Return Reason", select **High Altitude exchange**.
4. For "Your Return Number" write the unit serial number: <<\_\_\_\_\_>>.
5. For "Product Line" select: **ATV**.
6. Click the blue forward arrow to go to next step.
7. Enter part number for the centrifugal lever kit that was removed from the unit; the return quantity should always be 1 kit per return request.
8. Once you are sure that all information is correct, click the blue forward arrow to submit.

**NOTE:** Once your return request has been submitted via BOSSWeb, please allow **1 to 3 days** to receive the approval to return the items. The items can only be returned after having received the return authorization number via BOSSWeb (this number will appear in the return status screen on BOSSWeb).

## HIGH ALTITUDE SPECIFICATIONS

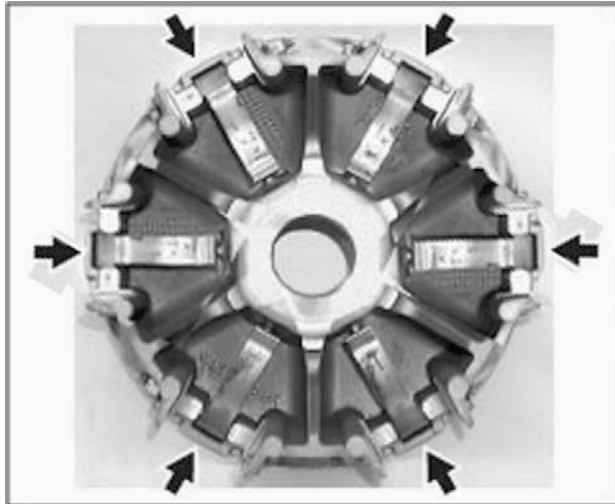
In the tables throughout this document,

- Shaded column gives factory setting,
- (\*) Single asterisk refers to Centrifugal Levers Reference Chart on page 5 of this document.

### Renegade™ 800R and Outlander™ Xmr/Xxc

No high altitude calibration settings have to be done through B.U.D.S. The calibration features an automatic electronic fuel injection compensation allowing fuel injection mapping to be optimized at all altitudes.

DRIVE PULLEY				
Altitude	Sea Level	1 200 m (4,000 ft)	2 400 m (8,000 ft)	Qty
Centrifugal Lever	420 248 497	715 500 249 (10.2 mm (.402 in))	715 500 248 (9 mm (.354 in))	1 (set of 6)



Remove all 6 standard levers and replace them with 6 high altitude levers.

NOTE: ► [Apply a drop of LOCTITE 243 \(BLUE\) \(P/N 293 800 060\) on threads of each centrifugal lever bolt.](#) ◀

**⚠ WARNING**

Failure to perform proper installation can cause damage to the vehicle and serious personal injuries to the rider.

## Outlander 800R (Except Xmr/Xxc)

No high altitude calibration settings have to be done through B.U.D.S. The calibration features an automatic electronic fuel injection compensation allowing fuel injection mapping to be optimized at all altitudes.

DRIVE PULLEY				
Altitude	Sea Level	1 200 m (4,000 ft)	2 400 m (8,000 ft)	Qty
Centrifugal Lever	420 248 495	715 500 249 (10.2 mm (.402 in))	715 500 248 (9 mm (.354 in))	1 (set of 6)

Remove all 6 standard levers and replace them with 6 high altitude levers.

NOTE: ► [Apply a drop of LOCTITE 243 \(BLUE\) \(P/N 293 800 060\) on threads of each centrifugal lever bolt.](#) ◀

**⚠ WARNING**

Failure to perform proper installation can cause damage to the vehicle and serious personal injuries to the rider.

## Outlander 650 EFI

No high altitude calibration settings have to be done through B.U.D.S. The calibration features an automatic electronic fuel injection compensation allowing fuel injection mapping to be optimized at all altitudes.

DRIVE PULLEY				
Altitude	Sea Level	1 200 m (4,000 ft)	2 400 m (8,000 ft)	Qty
Centrifugal Lever	420 248 558		715 500 285 (8.7 mm (.343 in))	1 (set of 6)

Remove all 6 standard levers and replace them with 6 high altitude levers.

NOTE: ▶ [Apply a drop of LOCTITE 243 \(BLUE\) \(P/N 293 800 060\) on threads of each centrifugal lever bolt.](#) ◀

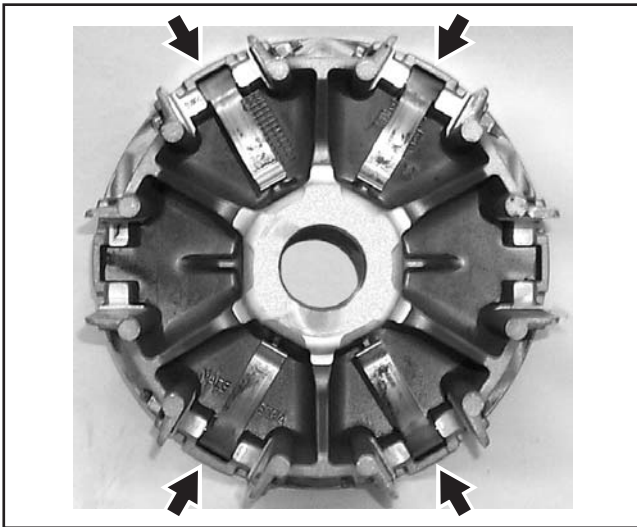
**⚠ WARNING**

Failure to perform proper installation can cause damage to the vehicle and serious personal injuries to the rider.

## Renegade 500 EFI

No high altitude calibration settings have to be done through B.U.D.S. The calibration features an automatic electronic fuel injection compensation allowing fuel injection mapping to be optimized at all altitudes.

DRIVE PULLEY				
Altitude	Sea Level	1 200 m (4,000 ft)	2 400 m (8,000 ft)	Qty
Centrifugal Lever	420 248 555	715 500 294 (10.75 mm (.423 in))	715 500 295 (9.75 mm (.384 in))	1 (set of 4)



Remove all 4 standard levers and replace them with 4 high altitude levers.

NOTE: ▶ [Apply a drop of LOCTITE 243 \(BLUE\) \(P/N 293 800 060\) on threads of each centrifugal lever bolt.](#) ◀

**⚠ WARNING**

Failure to perform proper installation can cause damage to the vehicle and serious personal injuries to the rider.

## Outlander 500 EFI

No high altitude calibration settings have to be done through B.U.D.S. The calibration features an automatic electronic fuel injection compensation allowing fuel injection mapping to be optimized at all altitudes.

DRIVE PULLEY				
Altitude	Sea Level	1 200 m (4,000 ft)	2 400 m (8,000 ft)	Qty
Centrifugal Lever	420 248 555	715 500 294 (10.75 mm (.423 in))	715 500 295 (9.75 mm (.384 in))	1 (set of 4)

Remove all 4 standard levers and replace them with 4 high altitude levers.

NOTE: ▶ [Apply a drop of LOCTITE 243 \(BLUE\) \(P/N 293 800 060\) on threads of each centrifugal lever bolt.](#) ◀

### ⚠ WARNING

Failure to perform proper installation can cause damage to the vehicle and serious personal injuries to the rider.

## DS 450™ EFI

No high altitude calibration settings have to be done through B.U.D.S. The calibration features an automatic electronic fuel injection compensation allowing fuel injection mapping to be optimized at all altitudes.

There are different sprocket calibration available to fine tune vehicle.

**⚠ CAUTION** Changing sprocket ratio may affect performance, including maximum vehicle speed. If the vehicle is equipped with a speedometer, the speed indicated by the speedometer may be different than actual vehicle speed. Please refer to chart below. Any sprocket combination highlighted (shaded areas) in the chart below will result in a vehicle speed higher than speed indicated on speedometer.

13-tooth Sprocket Kit (P/N 715 000 519)		
707 000 612	Sprocket	1
420 245 650	Retaining Ring	1
14-tooth Sprocket Kit (P/N 715 000 591)		
420 236 061	Sprocket	1
420 245 650	Retaining Ring	1
15-tooth Sprocket Kit (P/N 715 000 518)		
420 236 062	Sprocket	1
420 245 650	Retaining Ring	1
39-tooth Sprocket Kit (P/N 715 000 527)		
705 500 872	Sprocket	1
233 201 414	Flanged Elastic Nut	4
42-tooth Sprocket Kit (P/N 715 000 592)		
705 500 930	Sprocket	1
233 201 414	Flanged Elastic Nut	4
44-tooth Sprocket Kit (P/N 715 000 515)		
705 500 946	Sprocket	1
233 201 414	Flanged Elastic Nut	4
293 900 028	Bushing	2

### *DS 450 Std and Xxc Models*

CORRECTION FACTOR DUE TO CHANGE OF SPROCKET RATIO				
		Rear sprocket		
		39	42	44
Front sprocket	13	100%	93%	89%
	14	<b>108%</b>	100% <sup>(1)</sup>	95%
	15	<b>115%</b>	<b>107%</b>	<b>102%</b>

(1) Factory Ratio

### DS 450 Xmx Models

CORRECTION FACTOR DUE TO CHANGE OF SPROCKET RATIO				
		Rear sprocket		
		39	42	44
Front sprocket	13	92%	86%	83%
	14	100% <sup>(1)</sup>	92%	88%
	15	<b>106%</b>	100%	94%

(1) Factory Ratio

### DS 450 CE Models

CORRECTION FACTOR DUE TO CHANGE OF SPROCKET RATIO					
		Rear sprocket			
		34	39	42	44
Front sprocket	13	86%	75%	70%	68%
	14	93%	82%	75%	73%
	15	100% <sup>(1)</sup>	86%	82%	77%

(1) Factory Ratio

**⚠ CAUTION** Chain length may need to be adjusted with new sprocket sizes. See *ACCESSORY CATALOG* for replacement chain that can be installed with these kits. DO NOT ride the vehicle with a chain tension different than recommended.

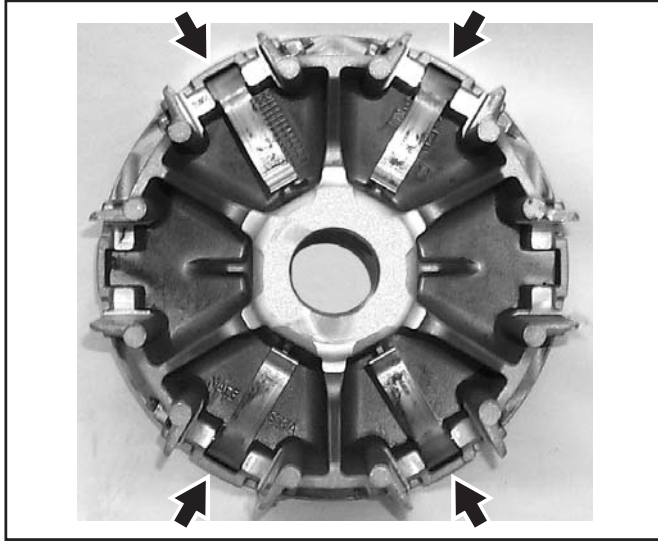
### **⚠ WARNING**

The use of any sprocket combination highlighted (shaded areas) in the previous chart leads to a change of the maximum vehicle load allowed. To avoid exceeding the OEM tire manufacturer's recommendations, the new maximum load will be 91 kg (200 lb). The omission to comply with this request could cause tire bursting and severe injury or death could occur.

## Outlander 400 EFI

No high altitude calibration settings have to be done through B.U.D.S. The calibration features an automatic electronic fuel injection compensation allowing fuel injection mapping to be optimized at all altitudes.

DRIVE PULLEY				
Altitude	Sea Level	1 200 m (4,000 ft)	2 400 m (8,000 ft)	Qty
Centrifugal Lever	420 248 424	707 000 324 (10.5 mm (.413 in))	707 000 325 (9.5 mm (.374 in))	1 (set of 4)



Remove all 4 standard levers and replace them with 4 high altitude levers as per illustration.

NOTE: ▶ [Apply a drop of LOCTITE 243 \(BLUE\) \(P/N 293 800 060\) on threads of each centrifugal lever bolt.](#) ◀

**⚠ WARNING**

Failure to perform proper installation can cause damage to the vehicle and serious personal injuries to the rider.

## DS 250

CALIBRATION	SEA LEVEL		1 200 M (4,000 FT)		2 400 M (8,000 FT)	
	North America	Europe	North America	Europe	North America	Europe
Main Jet	105	110	100	105	95	100
Needle Position	4	2	3	1		
Mixture Screw	2		1.5			
Idle RPM $\pm$ 100	1700		1800			

## Mini DS 90 / Mini DS 70

NOTE: Although there is no specific high altitude calibration for the DS 90 or the DS 70, parts to optimize vehicle performance at high altitudes have been made available. Refer to following table.

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<b>MAIN JET TYPE</b>	<b>P/N</b>
68	V16104DGF000
70	V16105DGF000
72	V16106DGF000
78	V16107DGF000
80	V16103DGF000
82	V16109DGF000
85	V16110DGF000
<b>PILOT JET TYPE</b>	
35	V16101DGF000



