



Date: August 2nd, 2007 Subject: RF Platform No. 2008-2

Predelivery Inspection

YEAR	MODEL	MODEL NUMBER	PREDELIVERY KIT P/N	SERIAL NUMBER
	FREESTYLE™ Session™	JA8B		
	FREESTYLE Park™	JC8B	549 011 283	All
	FREESTYLE Backcountry™	JD8A / JD8B / JD8C / JD8D / JD8E	049 011 200	
2008	TUNDRA® STD	GA8A / GA8B / GA8C		
	EXPEDITION® Sport	KA8A / KB8A	549 011 287	
	TUNDRA LT	GD8A / GE8A	549 011 309	
	LEGEND™ Touring	NB8A / NB8B	549 011 311	

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IMPORTANT NOTICE

This bulletin must be used in conjunction with the check list enclosed in the bag with the *OPERATOR'S GUIDE*. Make sure that *PREDELIVERY CHECK LIST* is completed and signed.

⚠ WARNING

To obtain limited warranty coverage, predelivery procedures must be performed by an authorized BRP Ski-Doo snowmobile 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. However, Bombardier Recreational Products inc. (BRP), maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured.

Due to late changes, there might be some differences between the manufactured product and the descriptions and/or specifications in this document.

BRP reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring obligation.

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

The content of this bulletin is designed as a guideline only. All mechanics performing predelivery procedures should have attended the current model year service training.

Further information or inquiries should be directed to your distributor service representative and/or specific *SHOP MANUAL* sections.

Please complete the *PREDELIVERY CHECK LIST* for each snowmobile and retain a customer signed copy.

Make sure the customer receives the OPERATOR'S GUIDE, PREDELIVERY CHECK LIST signed copy and SAFETY VIDEOCASSETTE.

There is a tag attached to the ignition key, only the customer must remove it. This tag will remind the customer to ask dealer/distributor to perform suspension adjustments according to riding style and vehicle load.

PREDELIVERY KITS

Parts List

Exped	lition Sport			549 0′	11 287	
Legen	d Touring	549 0	11 311			
ITEM	P/N	DESCRIPTION		QT	Υ	
1	414 916 600	Nylon Cap	2	2	2	2
2	236 282 084	M8 x 20 Torx [†] Head Screw	4	4	4	4
3	233 281 414	M8 Flanged Elastic Nut		2		
4	503 189 564	M10 Flat Washer		2		
5	207 205 586	M10 x 55 Hexagonal Screw (with Scotch-Grip ^{††})		2		
6	570 063 600	Wheel Cap	2	2	2	2
7	505 072 018	Ski Stopper	2			
8	505 070 978	Ski Stopper		2	2	2
9	234 001 410	Flat Washer	2			
10	224 002 251	Flat Washer	4	4	4	4
11	232 500 416	M10 Elastic Stop Nut (thin)	2	2	2	2
12	233 201 414	M10 Flanged Elastic Nut	4	4	4	4
13	207 662 084	M6 x 20 Flanged Hexagonal Screw		1		1
14	506 152 156	Bushing		1		1
15	233 261 494	M6 Flanged Elastic Nut		1		1
16	570 023 800	Windshield Latches	4	4	4	4
17	517 303 197	Windshield Support		2		2
18	510 004 481	Trim Ring		2	2	
19	250 100 053	M8 J-Nut		2	2	
20	510 004 713	Cover		2	2	
21	510 004 883	Spacer (LH Side)	1			
22	510 004 884	Spacer (RH Side)	1			
23	510 004 565	Clamp	2		2	
24	250 000 220	M8 x 45 Socket Head Screw (with nylon patch)	2	2	2	
25	250 000 197	M8 x 30 Torx Head Screw	4	4	4	
26	520 000 272	Bumper End Cap	2	2	2	2

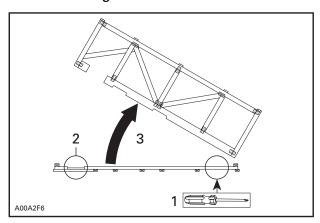
^{††} Scotch-Grip is a trademark of 3M

UNCRATING

Crate Cover

Carefully lay the crate on its bottom.

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



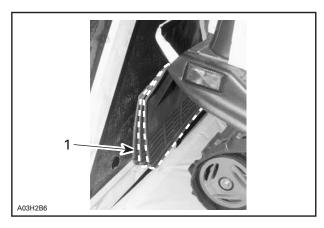
 Remove all screws [1] retaining crate cover to crate base.

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).

• Tilt [3] the crate cover toward the front or the rear of the vehicle.

NOTE: There is a notch [2] at one end of the crate that indicates the front of the vehicle.

• Lift the crate cover slowly to avoid damaging the vehicle.



NOTE: On some models, if cover is tilted toward the front of the vehicle, snow guard may interfere with crate cover, push on snow guard [1] when lifting cover. For crating purpose, snow guard is not installed on Freestyle Session and Freestyle Park.

- Remove protective sheets.
- If applicable, remove from vehicle or crate base:
 - drive belt (engine compartment)
 - windshield
 - bumper
 - skis (discard bolts and washers)
 - steering cap
 - any or all other parts that are not already installed (if applicable).

Crate Brackets

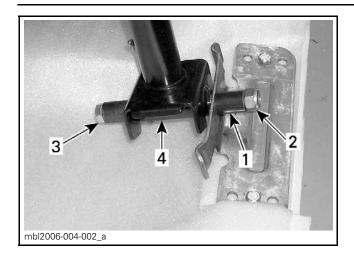
CAUTION: Make sure vehicle is properly supported before removing ski legs and rear suspension from crate brackets.

Detach ski legs from crate shipping brackets.

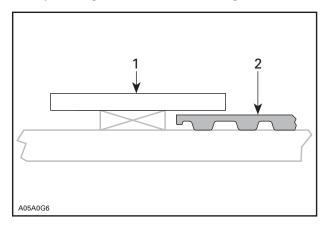
[†] Robertson is a registered trademark of Robertson Inc.

^{††} Snap-on is a trademark of Snap-on Inc.

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

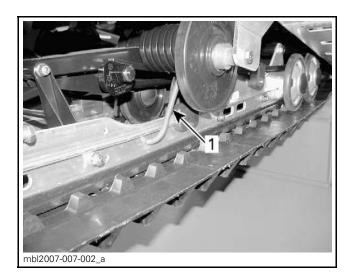


- Discard shipping spacers [1] and nuts [2].
- Keep ski leg bolts [3] and bushings [4].

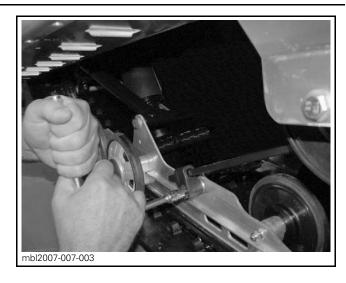


- Using a pry bar, remove wood blocks [1] retaining the track [2] to the crate base.
- Remove the vehicle from the crate base.

Model(s): Expedition Sport



NOTE: Left side torsion spring is not secured onto rail to allow positioning of shipping hook [1].



 Remove left torsion spring support block from rail; slide onto torsion spring, ensure torsion spring is properly secured at top and then, secure support block back onto rail.

Model(s): Tundra LT

- Reinstall torsion spring support blocks using new M8 flanged elastic nuts (item 3 in *PARTS LIST* of page 3).
- Reinstall both torsion springs back in place using new M10 x 55 hexagonal screws (with scotch-grip), (item 5 in PARTS LIST of page 3), with M10 flat washers, (item 4 in PARTS LIST of page 3).
- Torque from 42 to 54 Nom (31 to 40 lbfoft).

SET-UP

Hood and Side Panels Removal



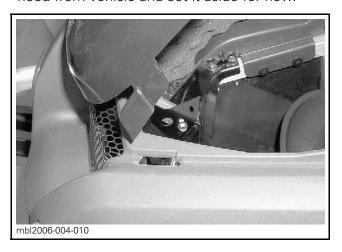
Unlatch side panels.



Unlatch hood (one latch on each side).



 On right side, unplug hood harness then remove hood from vehicle and set it aside for now.



NOTE: The hood does not have hinges. Lift out hood tabs from bottom pan to remove hood.

Battery (if so equipped)



 Remove battery from its position and proceed with its activation.

Model(s): All except North American

These models are equipped with a sealed valve regulated lead acid (VRLA) battery. It is non-spillable and maintenance reduced — no electrolyte level to be checked and readjusted. The electrolyte is already in the battery.

SUPPLIER P/N	BRP P/N		
YTX20L-BS	410 301 203		

This 18 amps battery requires a specific charging procedure at predelivery.

 Follow the appropriate procedure as described below.

⚠ WARNING

Always wear safety glasses and charge in a ventilated area. Never charge or boost battery while installed on vehicle. Do not open the sealed caps during charging. Do not place battery near open flame.

CAUTION: If battery becomes hot, stop charging and allow it to cool before continuing.

NOTE: Sealed VRLA batteries have an internal safety valve. If battery pressure increases due to overcharging, the valve opens to release excess pressure, preventing battery damage.

An automatic charger is the fastest and most convenient way for error-proof charging.

Battery Voltage below 12.8 V and above 11.5 V

STANDARD CHARGING (recommended)								
BATTERY TYPE TIME CHARGE								
YTX20L-BS	2 A							
QUICK CHARGING								
BATTERY TYPE TIME CHARGE								
YTX20L-BS 50 minutes 10 A								

Battery Voltage below 11.5 V

Batteries with voltage below 11.5 V require a special procedure to recharge. In charging an overdischarged battery, its internal resistance may be too high to charge at a normal charging voltage. Therefore, it may be necessary to raise the voltage of the battery initially to 25 V as a maximum, and charge for approximately 5 minutes.

If the charger ammeter shows no change in current after 5 minutes, a new battery is needed. 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.

Model(s): North American

These models are equipped with a sealed valve regulated lead acid (VRLA) battery. It is non-spillable and maintenance reduced — no electrolyte level to be checked and readjusted. This 21 amps battery is not activated and comes with its electrolyte container.

SUPPLIER P/N	BRP P/N		
YTX24HL-BS	515 176 448		



NOTE: Ensure number on electrolyte dispenser matches battery number before removing strip of caps from dispenser.

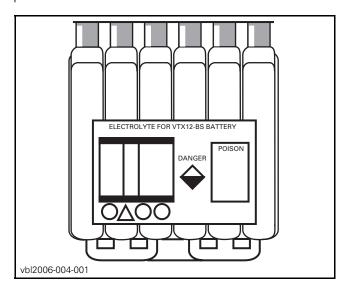
This is a dry type battery that requires no maintenance. An activation and charging of the new battery is necessary.

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.



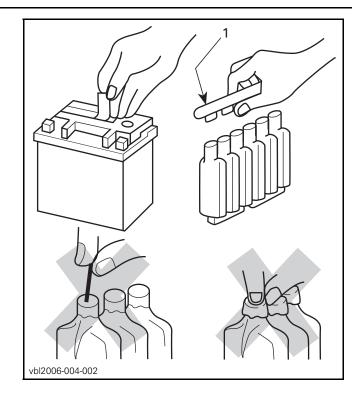
Use only the electrolyte container that comes with the battery. Sealed VRLA battery electrolyte is a higher concentration of sulfuric acid. All sealed VRLA battery electrolyte containers are not the same. Each contains the proper amount of electrolyte for its specific battery.

⚠ WARNING

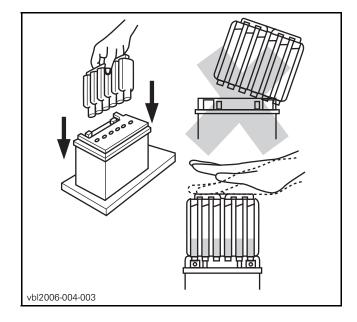
Always wear appropriate gloves and protective goggles. No Smoking. Do not forget safety precautions when storing or handling electrolyte solution.

Activating Battery

 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).



- 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.

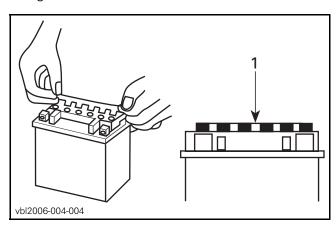
⚠ WARNING

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 is 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.

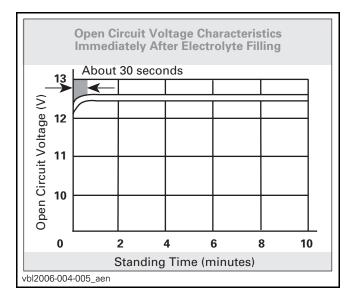
For batteries 3 - 12 A and greater than 12 A, let stand for at least 1 HOUR.

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" below.
- 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.

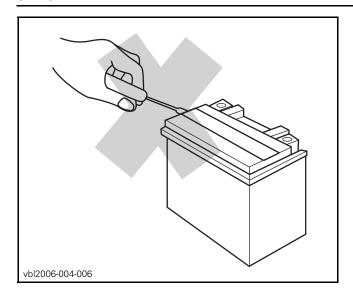


The graph shows an open circuit voltage characteristic of a sealed VRLA battery just after the electrolyte is filled.

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.

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



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

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 and additional charge.

Sealed VRLA Battery Routine Charging

The single most important thing to maintaining a VRLA battery is *not to 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 could 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 -2 hours.

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 well 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, a new battery is needed. 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.

- Clean battery post with a wire brush (if necessary).
- 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.

Front Shock Absorbers

Model(s): All



- Remove and keep upper and lower bolts.
- Discard circlip and steel bar.

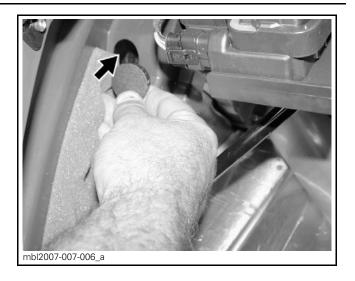


RIGHT SIDE SHOWN

 Install shock absorbers using kept bolts and M10 flanged elastic nuts (item 12 in PARTS LIST of page 3).

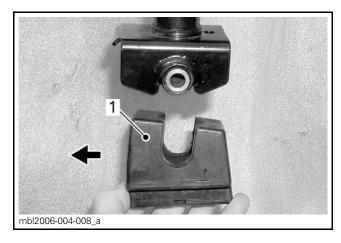
NOTE: Install bolts with head pointing toward the front of vehicle.

■ Torque flanged elastic nuts to 48 N•m (35 lbf•ft).



 Inside front compartment, install nylon caps (item 1 in PARTS LIST of page 3), to block hole left open to reach front shock absorber upper bolt.

Skis



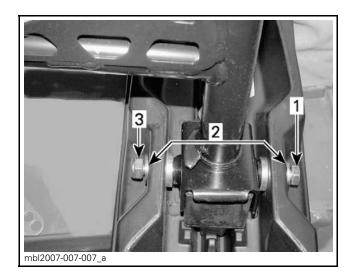
Model(s): All except Legend Touring

 Position ski stoppers (item 8 in PARTS LIST of page 3) under ski legs, with longer side [1] towards front (bold arrow points toward front).

Model(s): Legend Touring

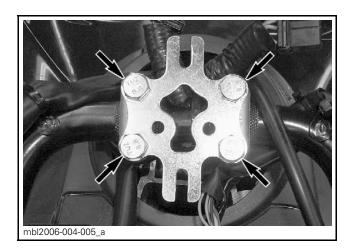
 Position ski stoppers (item 7 in PARTS LIST of page 3) under ski legs, with longer side [1] towards front (bold arrow points toward front).

Model(s): All

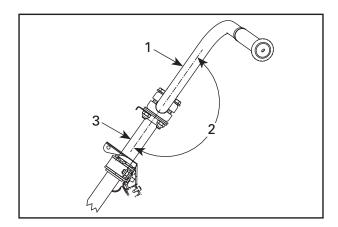


- Secure skis to ski legs using:
 - 2 hexagonal bolts M10 x 110 [1] (previously removed) with flat washers [2] (item 10 in *PARTS LIST* of page 3), one under bolt head and one before elastic stop nut.
 - 2 M10 elastic stop nuts [3] (item 11 in *PARTS LIST* of page 3).
- Torque elastic stop nuts [3] to 32 N•m (24 lbf•ft).

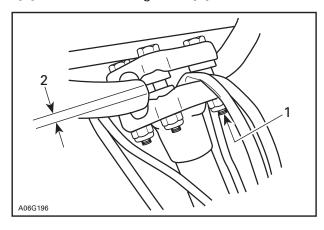
Handlebar



Loosen 4 handlebar bolts.



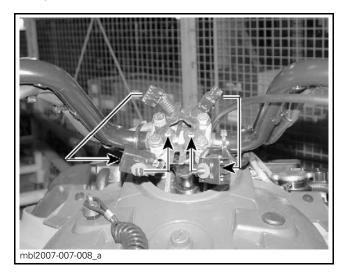
• Rotate the handlebar [1] upward until it is aligned [2] with the steering shaft [3].



Torque handlebar nuts [1] to 26 N

m (19 lbf

ft).
 NOTE: Gap [2] must be equal on both sides (both clamps).



 Connect and install connectors on reinforcement plate. Insert connector pins into plate holes.

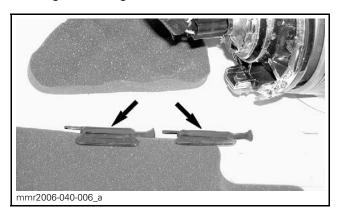
Steering Cover



• Install the steering cover on the handlebar.

Windshield

- Get hood (previously set aside).
- Install windshield by pushing its plastic pins through rubber grommets on hood.



- Turn hood up side down and install windshield latches (item 16 in *PARTS LIST* of page 3).
- Reinstall hood.

Rear Bumper

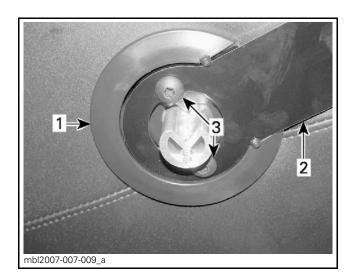
Model(s): All



- Insert caps (item 26 in PARTS LIST of page 3) in both rear bumper end openings.
- Using four (4) M8 x 20 Torx head screws (item 2 in PARTS LIST of page 3), secure rear bumper to frame.
- Torque M8 x 20 Torx head screws to 15 N•m (133 lbf•in).

Seat Backrest

Model(s): Expedition Sport / Tundra LT

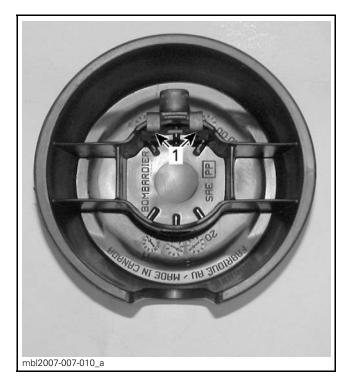


 Index trim ring [1], (item 18 in PARTS LIST of page 3), onto backrest arm [2] on both sides and align arms at their proper position on each side of the seat.

Model(s): Expedition Sport / Tundra LT / Legend Touring

 Secure backrest in place using M8 x 30 Torx head screws, (item 25 in PARTS LIST of page 3), 2 on each side.

Model(s): Expedition Sport / Tundra LT



 Insert an M8 J-nut [1], (item 19 in PARTS LIST of page 3), inside each cover (item 20 in PARTS LIST of page 3).

Model(s): Expedition Sport / Legend Touring

■ Install cover on each side using a clamp, (item 23 in *PARTS LIST* of page 3), retained to backrest shaft by an M8 x 45 socket head screw (with nylon patch), (item 24 in *PARTS LIST* of page 3), screwed in by underneath.

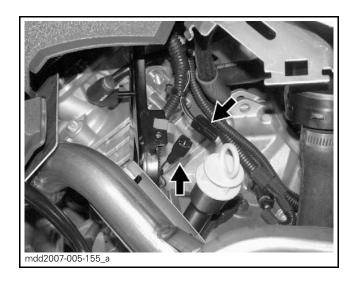
NOTE: It might be required to slightly widen clamp opening so it sits properly inside cover.

Snow Guard

Model(s): Freestyle Session / Freestyle Park

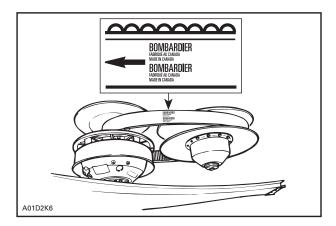
 Install snow guard in place, using rivets by underneath with flat washer outside.

Ending a B.U.D.S Session



Since there is no DESS, it is recommended to disconnect the «track connector» to end a B.U.D.S. session quicker. It could also be ended without disconnecting the «track connector» but it will then take longer (approximately 45 seconds longer).

Drive Belt



At factory a protective coating for shipping purpose is applied on pulleys and disc brake. This protective coating must be removed at predelivery.

- Clean pulleys and brake disc with a suitable cleaner such as pulley flange cleaner (P/N 413 711 809) before installing drive belt.
- Make sure that drive belt entire travel surface is clean; open and separate driven pulley halves as required for cleaning.

CAUTION: Do not install a new drive belt without properly cleaning pulleys; arrow on drive belt indicates direction of rotation.

FINAL PREPARATION

Break-In Period

Model(s): with a 2-stroke engine

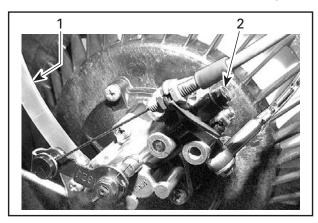
To assure additional protection during initial engine break-in, 500 mL (18 imp. oz) of XP-S mineral injection oil (P/N 413 802 900) should be added to fuel for first full filling of fuel tank.

NOTE: Always remove and clean spark plugs after engine break-in.

Oil Pump Bleeding Procedure

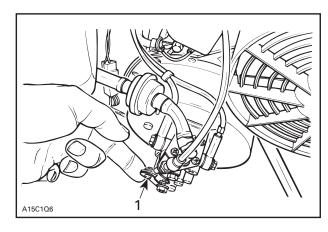
Model(s): with a 2-stroke engine

NOTE: Oil pump bleeding have been performed at factory. However, it is recommended to verify that no air bubble remains in lubrication system.



 Bleed main oil line [1] (between tank and pump) by loosening bleeder screw [2] until all air has escaped from line.

CAUTION: If air remains in lines, oil may not flow freely and thus, damages to engine will occur.



- Bleed small line between pump and intake manifold by running engine at idle while holding pump lever in fully open position [1].
- Check also for proper oil level adjustment.
- Mark on oil pump lever must stand from 0 to 2 mm (0 to 5/64 in) over mark on pump body when throttle lever is activated just enough to take all cable play.

Speedometer

Speedometer configuration for RF platform, V-800 engine units, is in kilometers; should it be requested in miles, here is the procedure to modify configuration.



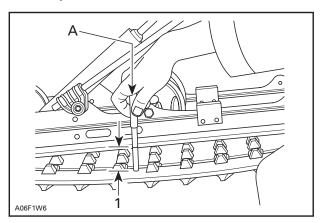
In engine compartment near gauges, a black connector is *CONNECTED*, therefore, offering the speedometer reading in kilometers. Should reading be requested in miles, simply *DISCONNECT* the black connector.

Track Adjustment

NOTE: It is recommended to ride the snowmobile in snow 15 to 20 minutes prior to adjusting track tension.

- Lift rear of vehicle and support with a mechanical stand.
- Allow the suspension to extend normally.

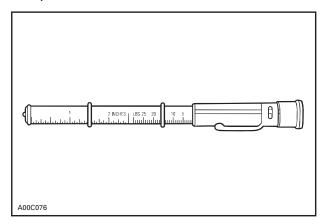
NOTE: If track is too loose, it will have a tendency to thump.



 With a force [A] of 7.4 kg (16 lb), check track deflection [1] half-way along slider shoe.

Track minimum 30 mm (1.181 in) — deflection maximum 35 mm (1.378 in)

CAUTION: Too much tension will result in power loss and excessive stresses on suspension components.



NOTE: A belt tension tester (P/N 414 348 200) may be used to measure deflection as well as force applied.

If track adjustment is needed proceed as follows:

- Loosen rear idler wheel retaining bolts.
- Turn adjustments screws to adjust.

- Retighten idler wheel bolts.
- Install idler wheel caps (item 6 in *PARTS LIST* of page 3).

DELIVERY TO CUSTOMER

Vehicle Cleaning

Model(s): All

Wash and dry the vehicle.

CAUTION: Never use a high pressure washer to clean the vehicle. The high pressure can cause electrical or mechanical damages.

 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

			Freestyle	Tundra		
M	ODEL		Session (JA8B)	STD (GA8A/GA8B/GA8C)		
			300 F			
ENGINE						
Engine type			2	77		
Number of cylinder				1		
Displacement		cm³ (in³)	268.70	(16.397)		
Compression ratio			11.2	± 0.5		
Maximum power engine speed		± 100 RPM	69	950		
COOLING SYSTEM						
Туре			F	an		
Axial fan belt adjustment	Deflection mm (i		9.5 ± 1.5 (.374 ± .059)		
	Force	kgf (lbf)	5.0 (11.0)			
LUBRICATION SYSTEM						
Injection oil	Туре		XP-S mineral injection oil			
mjoodon on	Quantity	L (U.S. oz)	3.5 (118.4)			
FUEL SYSTEM						
Carburetor type			VM34			
Idle speed		± 200 RPM	1650			
Gas type			Unleaded			
Pump octane number	Inside North Ame	erica ((R+M)/2)	87 or higher			
- unip cottano numbo:	Outside North An	nerica (RON)	92 or higher			
Fuel tank capacity		L (U.S. gal)	34 (9)			
ELECTRICAL SYSTEM						
Magneto generator output			340 W @ 6000 RPM			
Ignition type			C	DI		
Spark plug	Make and type		NGK	BR9ES		
Gap mm (in)		mm (in)	0.40 to 0.50 (.016 to .020)			
Battery			12 V, 18 A•h (if applicable)			
Headlamp		W	60/55 (H4)			
Taillight and stoplight		W	8/26			
Fuse	Starter solenoid	А	30 (if applicable)			

			Freestyle	Tundra	
	MODEL		Session (JA8B)	STD (GA8A/GA8B/GA8C)	
			3	00 F	
DRIVE SYSTEM					
Chaincase oil	Туре		XP-S synthetic chaincase oil		
Chamcase on	Quantity	mL (U.S. oz)	25	0 (8.5)	
Drive pulley type			Bomba	ardier Lite	
Drive pulley calibration	Clutch engagement	± 100 RPM	;	3300	
Driven pulley	Type		LI	PV 27	
Drive belt adjustment	Deflection	mm (in)	32 ± 5 (1.260 ± .197)	
Drive beit adjustillent	Force	kgf (lbf)	11.	34 (25)	
	Width	mm (in)	381 (15)	406.4 (16)	
Track	Length	m (in)	3.08 (121)	3.46 (136)	
	Profile height	mm (in)	18.4 (.725) (EUR): 22.2 (.875)	31.8 (1.25)	
Track adjustment	Deflection	mm (in)	30 to 35 (1.181 to 1.378)	
Track adjustment	Force	kgf (lbf)	7.	3 (16)	
BRAKE SYSTEM					
Brake fluid	Туре		DOT 4		
Diake ilulu	Quantity	mL (U.S. oz)	60 (2.0)		
SUSPENSION					
FRONT					
Suspension type			Single A-arm		
Shock absorber type			Motio	n control	
REAR					
Suspension type			SC 4	SC 136	
01 1 1 1		Center		n control	
Shock absorber type		Rear	Motion control (EUR): H.P.G.	H.P.G.	
STEERING SYSTEM					
Toe-out		mm (in)	5	(.197)	
Camber				0°	
VEHICLE INFORMATIONS					
Mass (dry)		kg (lb)	167 (368)	172 (379)	
Length m (in)			2.85 (112)	3.03 (119) (EUR): 3.09 (122)	
Width m (in)			0.97 (38)	1.00 (39.4)	
Height		m (in)	1.17 (46)	1.30 (51)	
Ski stance (carbide to carb	ide)	m (in)	3.0	32 (32)	
MATERIAL					
Frame			Aluminum		
Bottom pan / Trunk			Polyp	ropylene	
Hood / Side panels / Conso	le		Polyethylene HDPE		

			Fre	estyle	Tundra	Expedition	
м	DDEL		Park (JC8B)	Back country (JD8A/JD8B/JD8C/ JD8D/JD8E)	LT (GD8A)	Sport (KA8A)	
				550 I	=		
ENGINE							
Engine type				552			
Number of cylinder				2			
Displacement		cm³ (in³)		553.40 (33			
Compression ratio				10.50 ±	0.5	T	
Maximum power engine speed ± 100 RPM				6900		6950	
COOLING SYSTEM							
Туре				Fan			
Axial fan belt adjustment	Deflection	mm (in)		9.5 ± 1.5 (.37	4 ± .059)		
And full boil adjustment	Force	kgf (lbf)		5.0 (11	.0)		
LUBRICATION SYSTEM							
Injection oil	Туре		XP-S mineral injection oil				
injection on	Quantity	L (U.S. oz)	3.5 (118.4)				
FUEL SYSTEM							
Carburetor type				VM3)		
Idle speed		± 200 RPM	1650				
Gas type				Unlead	ed		
	Inside North Ameri	ca ((R+M)/2)	87 or higher				
Pump octane number	Outside North Ame	rica (RON)	92 or higher				
Fuel tank capacity	•	L (U.S. gal)	34 (9)				
ELECTRICAL SYSTEM							
Magneto generator output			340 W @ 6000 RPM				
Ignition type			CDI				
0 1 1	Make and type		NGK BR9ES				
Spark plug Gap mm (in)		mm (in)	0.40 to 0.50 (.016 to .020)				
Battery			12 V, 18 A•h (if applicable)				
Headlamp W							
Taillight and stoplight		W					
Fuse	Starter solenoid	Α	30 (if applicable)				

			Fre	estyle	Tundra	Expedition	
мо	DEL		Park (JC8B)	Back country (JD8A/JD8B/JD8C/ JD8D/JD8E)		Sport (KA8A)	
DRIVE SYSTEM				550	F		
DIIIVE OTOTEM	Туре			XP-S synthetic	chaincase oil		
Chaincase oil	Quantity	mL (U.S. oz)		250 (
Drive pulley type	•	(0.0. 02)		Bombard	•		
Drive pulley calibration	Clutch engagement	± 100 RPM	3300		2700		
Driven pulley	Туре			LPV	27		
Daine held a discount	Deflection	mm (in)		32 ± 5 (1.20	60 ± .197)		
Drive belt adjustment	Force	kgf (lbf)		11.34	(25)		
	Width	mm (in)	381 (15)		406.4 (16)		
Track	Length	m (in)	3.08 (121)		3.46 m (136 in)		
	Profile height	mm (in)	31.8 (1.25)		31.8 (1.25)		
Track adjustment	Deflection	mm (in)		30 to 35 (1.1)	81 to 1.378)		
mack adjustment	Force	kgf (lbf)		7.3 (16)		
BRAKE SYSTEM							
Brake fluid	Туре		DOT 4				
Druke hala	Quantity	mL (U.S. oz)	60 (2.0)				
SUSPENSION							
FRONT							
Suspension type			Single A-arm				
Shock absorber type			H.P.G.	Motion Control	H.P.G.	Motion Control	
REAR							
Suspension type			SC 4	Г	SC 136		
Shock absorber type		Center	H.P.G.	Motion Control	H.P.G.	Motion Control	
		Rear	H.P.G.	Motion Control	H.P.G.	Motion Control	
STEERING SYSTEM		1					
Toe-out		mm (in)					
Camber				0°)		
VEHICLE INFORMATIONS		lea /lb\	100 (410)	107 (104)	100 (414)	040 (404)	
Mass (dry) Length		kg (lb) m (in)	186 (410) 2.85 (112)	197 (434) 3.03 (119)		218 (481)	
, , ,				(EUR) 3.09 (122) 1.13 (3.09 (122)	
Height		m (in) m (in)	1.14 (45)	1.17 (46)	1.14 (45)	1.30 (51)	
Ski stance (carbide to carbide)		m (in)	0.99 (39) 0.99 (39)			9 (39)	
MATERIAL		()	(EUR): 0.96 (37.7)	3.33 (00)	(EUR):	0.96 (37.7)	
Frame				Alumi	num		
Bottom pan / Trunk			Aluminum Polypropylene				
Hood / Side panels / Console			Polyethylene HDPE				

				Lego	end	Tundra	Expedition	
	MODE	iL		Touring (NE	B8A/NB8B)	LT (GE8A)	Sport (KB8A)	
					V-	B00		
ENGINE								
Engine type				ROTAX V-810 4-9	stroke, Single Over H	lead Camshaft (SOH	C), liquid cooled	
Number of cylinders					:	2		
Displacement					800 cm ³	(48.82 in³)		
Compression ratio					10.	3:1		
Maximum HP RPM			RPM		72	50		
COOLING SYSTEM								
Type Coolant					0%). Use premix coo y formulated for alun			
		Quantity	L (U.S. gal.)	4.00 (1.06)	3.8 (1)	4.00 (1.06)	4.00 (1.06)	
LUBRICATION SYSTEM								
	Туре			Wet sump. Replaceable oil filter				
Lubaicadas	Oil filter	Oil filter			BRP Rotax paper type, replaceable			
Lubrication	Engine oil	Capacity (oil change with filter) 2 L (2.11 quarts)						
	Engine oil	Recommended		XP-S 0W40 synthetic oil or an equivalent				
FUEL SYSTEM								
Throttle body type				Dell'Orto				
Idle speed			± 200 RPM	1400				
Gas type				Unleaded				
Pump octane number		Inside North Am	erica ((R+M)/2)	87 or higher				
Tump octaine number		Outside North Ar	merica (RON)		92 or higher			
Fuel tank capacity			L (U.S. gal)	34 (9)				
ELECTRICAL SYSTEM								
Magneto generator output			W	420 @ 6000 RPM				
Ignition type					CDI (Capacity Di	scharge Ignition)		
Spark plug		Make and type		NGK DCPR8E				
Gap mm (in)			0.75 (.0303)					
Battery				12 V, 18 A•h (with electric starter)				
Headlamp W				60/55 (H4)				
Taillight and stoplight			W	8/26				
Fuse		Starter solenoid	Α	30 (if applicable)				

			Leg	end	Tundra	Expedition	
MODEL		Touring (N	B8A/NB8B)	LT (GE8A)	Sport (KB8A)		
		V-800					
DRIVE SYSTEM							
Chaineaga ail	Туре	Туре			XP-S synthetic chaincase oil		
Chaincase oil	Quantity	mL (U.S. oz)	250 (8.5)				
Drive pulley type			TRA IV				
Drive pulley calibration	Clutch engagement	± 100 RPM	2100				
Driven pulley type	Туре		LPV VSA				
Drive belt adjustment	Deflection	mm (in)	32 ± 5 (1.260 ± .197)				
	Force	kgf (lbf)	11.30 (24.91)				
Track	Width	mm (in)	381 (15) (EUR): 406.4 (16)	381 (15)	406.4 (16)	406.4 (16)	
	Length	m (in)	3.46 (136)	3.07 (121)	3.46 (136)	3.46 (136)	
	Profile height	mm (in)	22.2 (.874) (EUR): 31.8 (1.25)	22.2 (.874)	31.8 (1.25)	31.8 (1.25)	
Track adjustment	Deflection	mm (in)	30 to 35 (1.181 to 1.378)				
	Force	kgf (lbf)	7.3 (16)				
BRAKE SYSTEM							
Brake fluid	Туре		DOT 4				
	Quantity	mL (U.S. oz)	60 (2.0)				
SUSPENSION							
FRONT							
Suspension type			Single A-arm				
Shock absorber type			Motion control				
REAR							
Suspension type		į.	SC-136	SC-4	SC-136	SC-136	
Shock absorber type		Center		Motion control			
		Rear	H.P.G.	Motion control	H.P.G.	Motion control	
STEERING SYSTEM							
Toe-out mm (in)							
Camber			0°				
VEHICLE INFORMATIONS							
Mass (dry)		kg (lb)	231 (509)	222 (489)	222 (489)	231 (509)	
Length		m (in)	3.03 (119) (EUR): 3.09 (122)	2.85 (112)	3.03 (119)	3.03 (119)	
Width		m (in)	1.13 (44.6) (EUR): 1.17 (45.9)	1.13 (44.6)			
Height		m (in)	1.30 (51)	1.245 (49)	45 (49) 1.30 (51)		
Ski stance (carbide to carbide) m (in)		0.99 (39) 0.82 (32) 0.99 (39)					
MATERIAL							
Frame			Aluminum				
Bottom pan / Trunk			Polypropylene				
Side panels / Hood Console			Polyethylene HDPE				