

ski-doo[®]

OPERATOR'S GUIDE SUPPLEMENT 2003

SUMMIT[®]X REV[™]
144" 800 H.O.

™® ARE TRADEMARKS AND ® ARE REGISTERED TRADEMARKS OF BOMBARDIER INC. OR ITS SUBSIDIARIES.

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This supplement must be used in conjunction with 2003 *Operator's Guide* (P/N 219 000 234).



WARNING

**Read this guide thoroughly.
It contains important safety information.**



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SAFETY WARNING

Disregarding any of the safety precautions and instructions contained in this *Operator's Guide Supplement, Safety Handbook, Safety Videocassette* or on-product warnings may result in injury, including the possibility of death.

This *Operator's Guide Supplement, Safety Handbook* and *Safety Videocassette* should remain with the unit at time of resale.

BOMBARDIER
RECREATIONAL PRODUCTS



In USA, products are distributed by Bombardier Motor Corporation of America. In Canada, products are distributed by Bombardier Inc.

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DESS™

ROTAX®
SUMMIT®

SKI-DOO®
REV™

RER™

Dear 2003 Summit® X REV™ 144" 800 H.O. owner, informations in the *2003 REV Series Operator's Guide* (P/N 219 000 236) also apply to your Summit X REV 144" 800 H.O. except for the following.

BOMBARDIER LIMITED WARRANTY NORTH AMERICA: 2003 SKI-DOO® SNOWMOBILES

1. SCOPE OF THE LIMITED WARRANTY

In Canada, BOMBARDIER INC. (hereinafter “**BOMBARDIER**”), and in the USA, Bombardier on behalf of BOMBARDIER MOTOR CORPORATION OF AMERICA (BMCA) warrants its 2003 SKI-DOO snowmobiles from defects in material or workmanship for the period described below.

All genuine BOMBARDIER parts and accessories, installed by an authorized BOMBARDIER dealer (as hereinafter defined) at the time of delivery of the 2003 SKI-DOO snowmobile, carry the same warranty as that of the snowmobile.

Use of the product for racing or any other competitive activity, at any point, even by a prior owner will render this warranty null and void.

2. WARRANTY COVERAGE PERIOD

This warranty will be in effect FROM THE DATE OF DELIVERY TO THE FIRST RETAIL CONSUMER or the date the product is first put into use, whichever occurs first and for a period of:

- a. TWELVE (12) CONSECUTIVE MONTHS, for private use owners. The warranty coverage period on a snowmobile delivered between June 1st and December 1st of a given year will expire December 1st of the following year; or
- b. TWELVE (12) CONSECUTIVE MONTHS, for commercial use owners. The warranty coverage period on a snowmobile delivered between June 1st and December 1st of a given year will expire December 1st of the following year.

The repair or replacement of parts or the performance of service under this warranty does not extend the life of this warranty beyond its original expiration date.

3. CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only on 2003 SKI-DOO snowmobile purchased as new and unused by its first owner from a BOMBARDIER dealer authorized to distribute SKI-DOO products in the country in which the sale occurred (hereinafter "BOMBARDIER dealer"), and then only after the BOMBARDIER specified pre-delivery inspection process is completed and documented. Warranty coverage only becomes available upon proper registration of the product by a BOMBARDIER dealer. Such limitations are necessary in order to allow BOMBARDIER to preserve both the safety of its products, and also that of its consumers and the public.

Routine maintenance outlined in the *Operator's Guide* must be timely performed in order to maintain warranty coverage. BOMBARDIER reserves the right to make warranty coverage contingent upon proof of proper maintenance.

4. WHAT TO DO TO OBTAIN WARRANTY COVERAGE

The customer must notify a servicing BOMBARDIER dealer within two (2) days of the appearance of a defect, and provide it with reasonable access to the product and reasonable opportunity to repair it. The customer must also present to the BOMBARDIER dealer, proof of purchase of the product and must sign the repair/work order prior to the start of the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of BOMBARDIER.

5. WHAT BOMBARDIER WILL DO

BOMBARDIER's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine BOMBARDIER parts without charge for parts and labor, at any authorized BOMBARDIER dealer.

BOMBARDIER reserves the right to improve or modify products from time to time without assuming any obligation to modify products previously manufactured.

6. EXCLUSIONS - ARE NOT WARRANTED

- Normal wear and tear;
- Routine maintenance items, tune ups, adjustments;
- Damage caused by failure to provide proper maintenance and/or storage, as described in the *Operator's Guide*;
- Damage resulting from removal of parts, improper repairs, service, maintenance, modifications or use of parts not manufactured or approved by BOMBARDIER or resulting from repairs done by a person that is not an authorized servicing BOMBARDIER dealer;
- Damage caused by abuse, abnormal use, neglect, use of the product on surfaces other than snow, or operation of the product in a manner inconsistent with the recommended operation described in the *Operator's Guide*;
- Damage resulting from accident, submersion, fire, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the *Operator's Guide*);
- Snow or water ingestion;
- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income; and
- Damage resulting from tracks which have been studded.

7. LIMITATIONS OF LIABILITY

THIS WARRANTY IS EXPRESSLY GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME STATES/PROVINCES DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND EXCLUSIONS IDENTIFIED ABOVE, AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH MAY VARY FROM STATE TO STATE, OR PROVINCE TO PROVINCE.

Neither the distributor, any BOMBARDIER dealer nor any other person has been authorized to make any affirmation, representation or warranty regarding the product, other than those contained in this limited warranty, and if made, shall not be enforceable against BOMBARDIER. BOMBARDIER reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the products sold while this warranty is in effect.

8. TRANSFER

If the ownership of a product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided that BOMBARDIER is notified of such transfer of ownership in the following way:

- a. The former owner contacts BOMBARDIER (at the phone number provided below) or an authorized BOMBARDIER dealer and gives the coordinates of the new owner; or
- b. BOMBARDIER or an authorized BOMBARDIER dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the coordinates of the new owner.

9. CONSUMER ASSISTANCE

- a. In the event of a controversy or a dispute in connection with this BOMBARDIER LIMITED WARRANTY, BOMBARDIER suggests that you try to resolve the issue at the dealership level. We recommend discussing the issue with the authorized dealer's service manager or owner.
- b. If the issue has not yet been resolved, please submit your complaint in writing or call the appropriate number below:

In Canada:

BOMBARDIER INC.
RECREATIONAL PRODUCTS
SKI-DOO®
CUSTOMER ASSISTANCE
CENTER
VALCOURT QC J0E 2L0
Tel: (819) 566-3366

In USA:

BOMBARDIER MOTOR
CORPORATION OF AMERICA
RECREATIONAL PRODUCTS
SKI-DOO®
CUSTOMER ASSISTANCE
CENTER
7575 BOMBARDIER COURT
WAUSAU WI 54401
Tel: (715) 848-4957



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BOMBARDIER LIMITED WARRANTY INTERNATIONAL: 2003 SKI-DOO® SNOWMOBILES

1. SCOPE OF THE LIMITED WARRANTY

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- Damage caused by abuse, abnormal use, neglect, use of the product on surfaces other than snow, or operation of the product in a manner inconsistent with the recommended operation described in the *Operator's Guide*;
- Damage resulting from accident, submersion, fire, theft, vandalism or any act of God;
- Operation with fuels, oils or lubricants which are not suitable for use with the product (see the *Operator's Guide*);
- Snow or water ingestion;

- Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income; and
- Damage resulting from tracks which have been studded.

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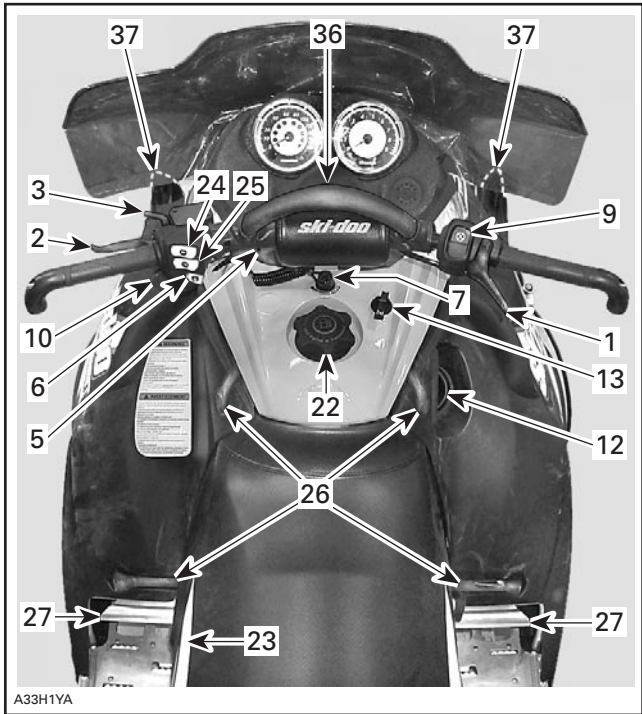
9. CONSUMER ASSISTANCE

- a. In the event of a controversy or a dispute in connection with this BOMBARDIER LIMITED WARRANTY, BOMBARDIER suggests that you try to resolve the issue at the distributorship/dealership level. We recommend discussing the issue with the authorized dealer's service manager or owner.
- b. If further assistance is required, the distributor's service department should be contacted in order to resolve the matter.



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CONTROLS/INSTRUMENTS



NOTE: See description or numbered items in *2003 REV Series Operator's Guide* (P/N 219 000 236) except for the following.

5) Handlebar

Handlebar angle can be slightly adjusted to suit driver's preferences. To adjust, remove steering pad, loosen four bolts then, adjust handlebar.

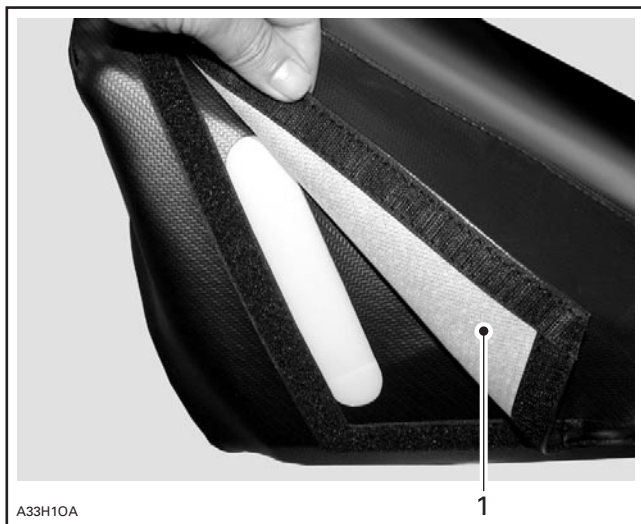
Retighten the four bolts to 24 N•m (18 lbf•ft). Reinstall steering pad. Readjust throttle lever housing and brake lever housing accordingly to optimal angle so that you will not need to release your grip to operate levers.

WARNING

Adjust with vehicle at rest in a safe place. Securely retighten all fasteners. Never rotate throttle lever to operate with fingers instead of thumb.

23) Fuel Level

Open fabric door to see the fuel level through the transparent fuel tank.



1. Fabric door

29) Storage Compartment

A storage compartment is provided inside rear portion of seat.

WARNING

All storage compartments must be properly latched and they must not contain any heavy or breakable objects.



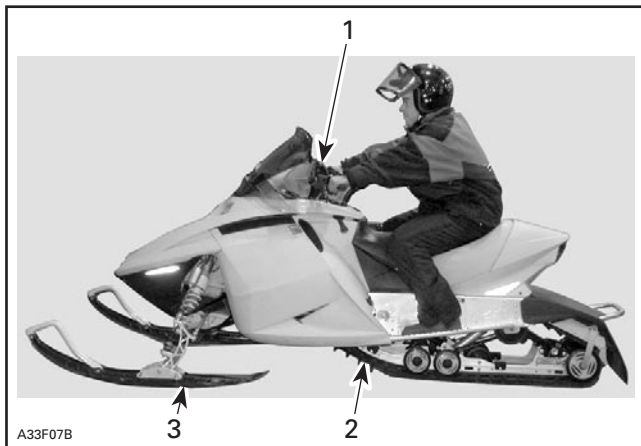
1. Storage compartment cover

35) Adjustable Suspension

3. Stopper Strap — Weight Transfer

Ride at low speed then fully accelerate. Note steering behavior. Adjust stopper strap length accordingly.

CAUTION: Whenever stopper strap length is changed, track tension must be readjusted.



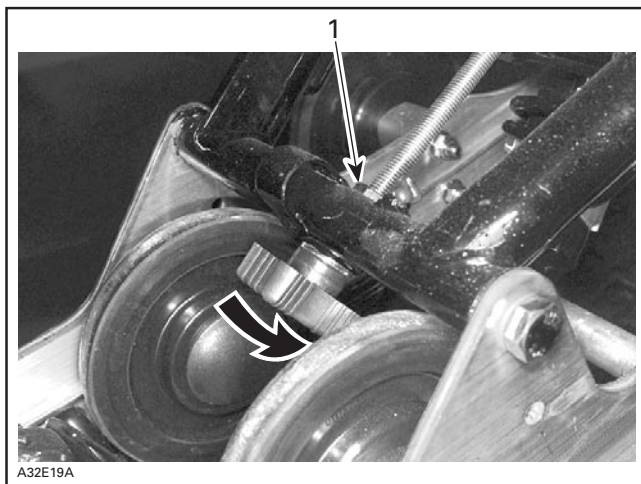
TYPICAL — GOOD ADJUSTMENT AT FULL ACCELERATION

1. *Comfortable steering*
2. *Good weight transfer to the track*
3. *Light pressure of skis on the ground*



TYPICAL — TOO LONG STRAP

1. Skis lift off the ground



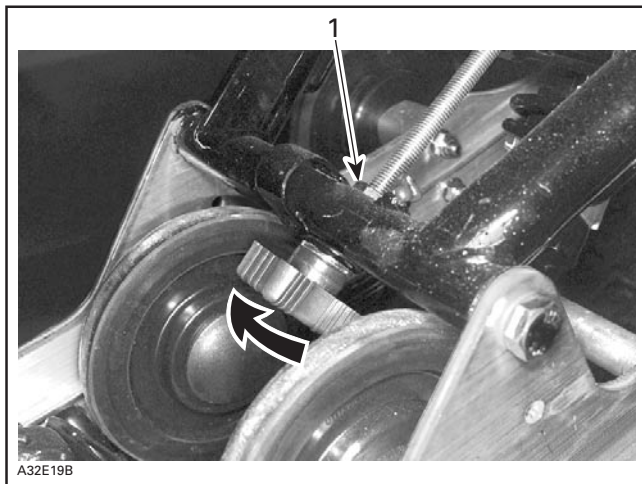
TYPICAL

1. Loosen lock nut, turn knob accordingly then retighten lock nut



TYPICAL — TOO SHORT STRAP

1. Heavy steering



TYPICAL

1. Loosen lock nut, turn knob accordingly then retighten lock nut

36) Holding Strap

Holding strap provides a grip for driver when side-hilling.

WARNING

This strap is not for towing, lifting or other purpose than temporary use as a grab bar during side-hilling. Always keep at least one hand on handlebar.

37) Convertible Ski Stance

Ski stance (distance between each skis) is adjustable. See an authorized SKI-DOO dealer.

MAINTENANCE

Track Tension and Alignment

Tension

NOTE: Ride the snowmobile in snow about 15 to 20 minutes prior to adjusting track tension.

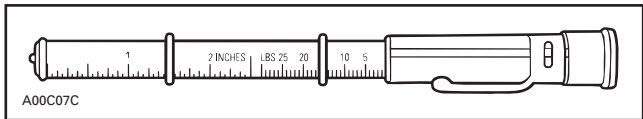
Turn off engine cut-out switch.

Lift rear of snowmobile by the bumper using a wide-base snowmobile mechanical stand.

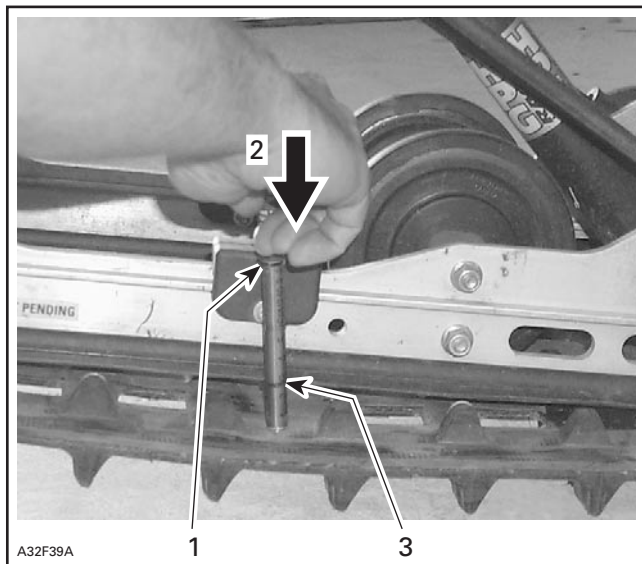
Allow the rear suspension to fully extend and check gap half-way between front and rear idler wheels.

Measure between slider shoe and bottom inside of track. The gap should be as given in SPECIFICATIONS. If the track tension is too loose, track will have a tendency to thump.

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



BELT TENSION TESTER



1. Top tool O-ring positioned at 7.3 kg (16 lb)
2. Push on top portion of tool until it contacts the top O-ring
3. Measured track deflection

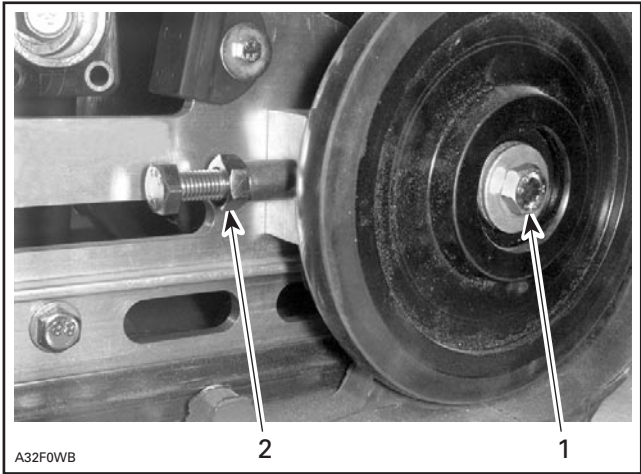
CAUTION: Too much tension will result in power loss and excessive stresses on suspension components.

Adjustment

Loosen one of the rear idler wheel retaining screws.

Loosen lock nut on both adjustment screws before adjusting track tension and/or alignment.

Retighten rear idler wheel retaining screw and lock nuts after adjustments are done.



LEFT SIDE SHOWN

1. Rear idler wheel retaining screw
2. Lock nut on adjustment screw

SPECIFICATIONS

GENERAL		SUMMIT X REV 144" 800 H.O.
Engine		
– Maximum Power Engine Speed	± 100 RPM	7850
Drive Belt		
– Part Number		417 300 166
– Width of a New Belt	mm (in)	37.67 (1.483)
– Wear Limit Width	mm (in)	35.27 (1.388)
Spark Plug		
– Type		NGK BR 9 ECS
– Gap	± 0.05 mm (± .002 in)	0.50 (.020) ⑦
Track		
– Tension	mm (in)	30 - 35 (1-3/16 - 1-3/8) ①
– Alignment		②
FLUIDS		
Fuel		
– Type		Premium Unleaded ③
– Tank Capacity	L (U.S. gal)	38 (10.04)
Oil (engine)		
– Type		④
– Tank Capacity	L (U.S. oz)	3.5 (118)
Chaincase Oil		
– Type		⑤
– Capacity	mL (U.S. oz)	250 (8.5)
Cooling System		
– Type		⑥
– Capacity	L (U.S. oz)	4.3 (145)
Brake System Fluid		
– Type		DOT 4

Because of its ongoing commitment to product quality and innovation, Bombardier 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 any obligation upon itself to install them on its products previously manufactured.

- ① Measure gap between slider shoe and bottom inside of track when exerting a downward pull of 7.3 kg (16 lb) to the track.
- ② Equal distance between edges of track guides and slider shoes.
- ③ Premium unleaded gasoline with a minimum octane number of $91 (R + M)/2$.
- ④ BOMBARDIER FORMULA XP-S II synthetic injection oil (or equivalent) (P/N 293 600 245 — 12 x 1 L) OR BOMBARDIER injection oil (P/N 413 802 900 — 12 x 1 L) or equivalent.
- ⑤ BOMBARDIER synthetic chaincase oil (P/N 413 803 300 — 12 x 355 mL).
- ⑥ Blend of 50/50 distilled water and ethylene glycol (P/N 293 600 038 — 12 x 1 L). That blend will protect the system from freezing as low as -37°C (-35°F).
- ⑦ **CAUTION:** Do not attempt to adjust gap on spark plug BR 9 ECS.

N.A.: Not applicable