# operator's manual

# CITATION LS/LSE TUNDRA TUNDRA\* LT





model
V.I.N
purchase date
warranty expiry date
To be completed by dealer at time of sale

**DEALER IMPRINT AREA** 

AFTER SALES SERVICE BOMBARDIER INC. VALCOURT, QUEBEC CANADA, JOE 2LO



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# **FOREWORD**

The operator manual and the Snowmobile Safety Handbook have been prepared to acquaint the owner/operator or passenger of a new snowmobile with the various vehicle controls, maintenance and safe operating instructions. Each is indispensable for the proper use of the product, and should be kept with the vehicle at all times.

Should you have any questions pertaining to the warranty and its application, please consult the "Often Asked Question" section of this manual, or your authorized dealer.

This manual uses the following symbols.

WARNING: Identifies an instruction which, if not followed, could cause serious personal injuries including possibility of death.

CAUTION: Denotes an instruction which, if not followed, could severely damage vehicle components.

NOTE: Indicates supplementary information needed to fully complete an instruction.

Although the mere reading of such information does not eliminate the hazard, your understanding of the information will promote its correct use.

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

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

The illustrations show the typical construction of the different assemblies and, in all cases, may not reproduce the full detail or exact shape of the parts shown, however, they represent parts which have the same or a similar function.

Most specifications are given in both metric and customary units. Where precise accuracy is not required, some conversions are rounded to even numbers for easier use.

A shop manual can be obtained for complete service, maintenance and repair information.

WARNING: The engines and the corresponding components identified in this manual should not be utilized on product(s) other than those mentioned on the cover page of this manual.

WARNING: Maintenance procedures and tightening torques must be strictly adhered to, never attempt repairs unless the appropriate tools are available.

CAUTION: Most components of this vehicle are built with parts dimensioned in the metric system. Most fasteners are metric and must not be replaced by customary fasteners or vice versa. Mismatched or incorrect fasteners could cause damage to the vehicle or possible personal injury.

# SAFETY MEASURES

# Observe the following precautions:

- Throttle mechanism should be checked for free movement before starting engine.
- Do not operate vehicle near snow making equipment.
- Engine should be running only when belt guard and/or pulley guard is secured in place.
- Never run the engine without drive belt installed. Running an unloaded engine can prove to be dangerous.
- Never run the engine when the track is raised off the ground.
- It can be dangerous to run engine with the hood removed.
- Gasoline is flammable and explosive under certain conditions. Always manipulate in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity. If gasoline fumes are noticed while driving, the cause should be determined and corrected without delay.
- Maintain your vehicle in top mechanical condition at all times.
- Your snowmobile is not designed to be driven or operated on black top, bare earth, or other abrasive surfaces. On such surfaces abnormal and excessive wear of critical parts is inevitable.
- Your snowmobile is not designed to be operated on public streets, road or highways. In most States and Provinces, it is considered an illegal operation.

- Installation of other than standard equipment, including ski-spreaders, bumpers, pack racks, etc., could severely affect the stability and safety of your vehicle. Avoid adding on accessories that alter the basic vehicle configuration.
- The snowmobile engine can be stopped by activating the emergency cutout switch, tether switch or by turning off the key.
- Whenever the vehicle is parked outdoors, overnight or for a long period, it is suggested to protect it against the inclemency of the weather with a snowmobile cover.
- Do not lubricate throttle and/or brake cables and housings.
- Only perform procedures as detailed in this manual. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.
- Clean and check operation of the headlight, taillight and brake light.
- These vehicles are designed for the driver only. No provisions have been made for a passenger.
- Should removal of a locking device be required when undergoing repairs/disassembly, always replace by new ones. Tighten fasteners as specified in the applicable Shop Manual.

PLEASE READ AND UNDERSTAND ALL WARNINGS AND CAUTIONS IN THIS MANUAL AND ON THE VEHICLE

# THIS MANUAL SHOULD REMAIN WITH THE VEHICLE AT THE TIME OF RESALE

# INDEX \_\_\_\_\_

THE 1988 "LIMITED WARRANTY"	4
OFTEN ASKED QUESTIONS	6
LISTING OF AREA DISTRIBUTORS	8
HOW TO IDENTIFY YOUR SNOWMOBILE	9
CONTROLS/INSTRUMENTS	
Throttle lever, brake lever, ignition/light switch, headlamp dimmer switch, emergency cut-out switch, tether cut-out switch, rewind starter handle, primer, adjustable steering handle, fuel gauge/tank cap, hood opening, tool box, fuse holder, hitch, accessories	10
BREAK-IN PERIOD  Engine and belt break-in, 10 hour-inspection, check list	13
FUEL & OIL	. •
Recommended gasoline, recommended oil, oil injection system	15
PRE-START CHECK	
Check points	16
STARTING PROCEDURE	
Manual starting, electric starting, before riding, emergency starting	16
LUBRICATION	
Frequency, steering mechanism, drive axle, slide suspension, chaincase oil level, oil injection system, drive pulley, driven pulley	18
MAINTENANCE	
Chart, belt guard removal, drive belt removal and installation, drive belt condition, new drive belt, brake condition, brake adjustment, brake light switch adjustment, spark plug, battery, suspension condition, stopper strap condition, suspension adjustment, track condition, track tension and alignment, drive pulley, steering mechanism, steering adjustment, muffler attachment, engine mount nuts, carburetor adjustment, high altitude kit, oil injection system, fan belt, headlamp beam aiming, bulb replacement, general inspection	20
STORAGE	
Track, suspension, ski, controls, chaincase, drive pulley, engine and primer lubrication, fuel tank and carburetor, battery, chassis, general inspection, suspension stopper strap	32
PRE-SEASON PREPARATION	
Pre-season preparation chart	36
TROUBLE SHOOTING GUIDE	37
TOOLS	39
SPECIFICATIONS	40
SI METRIC INFORMATION GUIDE	44

# THE 1988 SNOWMOBILE LIMITED WARRANTY \_\_\_\_

#### 1 - PERIOD

BOMBARDIER® INC. as manufacturer, warrants FROM THE DATE OF DELIVERY TO THE FIRST CONSUMER, every 1988 BOMBARDIER snowmobile, sold as NEW AND UNUSED, and predelivered by an authorized BOMBARDIER dealer for a period of:

• 12 consecutive months.

#### 2 - WHAT BOMBARDIER WILL DO

BOMBARDIER will repair and/or replace, at its option, components defective in material and/or workmanship (under normal use and service), with a genuine BOMBARDIER component without charge for parts or labour, at any authorized BOMBARDIER dealer during said warranty period.

#### 3 - CONDITION TO HAVE WARRANTY WORK PERFORMED

Present to the servicing dealer, the hard copy of the BOMBARDIER Warranty Registration card or proof of purchase received by the customer from the selling dealer at time of delivery.

#### 4 - WARRANTY TRANSFER

This warranty is transferable to subsequent owner(s) for remainder of warranty period from original date of delivery.

#### 5 - EXCLUSIONS - ARE NOT WARRANTED

- Normal wear on all items such as, but not limited to:
  - drive belts
- bulbs
- slider shoes
- runners on skis
- spark plugs
- Replacement parts and/or accessories which are not genuine BOMBARDIER parts and/or accessories.
- Damage resulting from installation of parts other than genuine BOMBARDIER parts.
- Damage caused by failure to provide proper maintenance as detailed in the Operator's Manual. The labour, parts and lubricants costs of all maintenance services, including tune-ups and adjustments will be charged to the owner.
- Vehicles designed and/or used for racing purposes.
- All optional accessories installed on the vehicle.
   (The normal warranty policy for parts and accessories, if any, applies).
- Damage resulting from accident, fire or other casualty, misuse, abuse or neglect.
- Damage resulting from operation of the snowmobile on surfaces other than snow.
- Damage resulting from modification to the snowmobile not approved in writing by BOMBARDIER.

Losses incurred by the snowmobile owner other than parts and labour, such
as, but not limited to, transportation, towing, telephone calls, taxis, or any
other incidental or consequential damage.

#### 6 - BATTERY WARRANTY:

12 consecutive months. (Pro-rated)

100% warranty coverage will start on the date the snowmobile was delivered and run to the following April 30th. The remainder of the 12 month-period will be pro-rated as follows:

- 50% from April 30th to December 1st.
- 40% from December 1st to December 31st.
- 30% from January 1st to end of warranty.

#### 7 - EXPRESSED OR IMPLIED WARRANTIES

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. Where applicable this warranty is expressly in lieu of all other expressed or implied warranties of BOMBARDIER, its distributors and the selling dealer, including any warranty of merchantability or fitness for any particular purpose; otherwise the implied warranty is limited to the duration of this warranty. However, some states or provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply.

Neither the distributor, the selling dealer, nor any other person has been authorized to make any affirmation, representation or warranty other than those contained in this warranty, and if made, such affirmation, representation or warranty shall not be enforceable against BOMBARDIER or any other person.

Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply.

BOMBARDIER INC. reserves the right to modify its warranty policy at any time, being understood that such modification will not alter the warranty conditions applicable to vehicles sold while the above warranty is in effect.

#### 8 - CONSUMER ASSISTANCE

If a servicing problem or other difficulty occurs, we suggest the following:

- 1. Try to solve the problem at the dealership with the Service Manager or Owner.
- 2. If this fails, contact your area distributor listed in the Operator's Manual.
- 3. Then if your grievance still remains unsolved, you may write to us:

Bombardier Inc. Service Department Recreational Products Division Valcourt (Quebec), Canada, JOE 2LO September 1986
Bombardier Inc.
Valcourt (Quebec), Canada, JOE 2LO

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# OFTEN ASKED QUESTIONS

- Q: Why must my snowmobile be registered at the factory? After all I do have my original invoice as proof of when I purchased my snowmobile.
  - A: Your warranty is valid at any authorized dealer of the product. Your registration is the key element in providing the servicing dealer with the necessary data to complete warranty claim forms. This information is also used to notify owners in the event of a safety recall.
- Q: Who should send the registration card to Bombardier Inc.?
  - A: The dealer. However, it is important that the customer make sure that it has been sent. The company might contact you should your vehicle be recalled or in case of a particular warranty campaign.
- Q: I bought my snowmobile in O'King County but I snowmobile in Washington County. Can the dealer in Washington County accept to perform warranty work on my snowmobile?
  - A. Yes, any authorized dealer in North America can perform warranty repairs, providing the customer warranty registration card is presented.
- Q: Where can I find information on the lubrication and maintenance of my snow-mobile?
  - A: In this Operator Manual provided with the vehicle at the time of delivery.
- Q: Will the entire warranty be void or cancelled, if I do not operate or maintain my new snowmobile exactly as specified in the Operator's Manual?
  - A: The warranty of the new snowmobile cannot be "Voided" or "Cancelled". However, if a particular failure is caused by operation or maintenance other than is shown in the Operator Manual, THAT failure may not be covered under warranty. This includes service work performed by the customer, especially the critical adjustments to ignition, timing, carburation and oil injection/or oil mixture.
- Q: Would you give some examples of abnormal use or strain, neglect or abuse?
  - A: These terms are general and overlap each other in areas. Some specific examples may include: running the machine out of oil, chain failure caused by a lack of lubrication, operating the machine with a broken or damaged part which causes another part to fail, and so on. If you have any specific questions on operation or maintenance, please contact your dealer for advice.

Q: What costs are my responsibility during the warranty period?

A: The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accidents and collision damage, as well as oils, and spark plugs, and incidental or consequential damages costs as explained in the warranty.

Q: Are "Genuine" Bombardier replacement parts used in warranty repairs covered by warranty?

A: Yes. When installed by an authorized dealer, any "Genuine" Bombardier part used in warranty repairs assumes the remaining warranty that exists on the machine.

Q: If I sell my snowmobile within the warranty period, will the new owner qualify for the balance of the warranty?

A: Yes, provided the unit has already been registered with the manufacturer. Note that the change of ownership card in this manual should be completed and sent to Bombardier Inc.

Q: How can I receive the best owner assistance?

A: The satisfaction and goodwill of the owners of Bombardier products are of primary concern to your dealer and Bombardier Inc. Normally, any problems that arise in connection with the sales transaction or the operation of your snow-mobile will be handled by your Dealers Sales or Service Departments. It is recognized, however, that despite the best intentions of everyone concerned, misunderstandings will sometimes occur. If you have a problem that has not been handled to your satisfaction through normal channels, we suggest that you discuss your problem with a member of dealership management. Frequently, complaints are the result of a breakdown in communications and can quickly be resolved by a member of the dealership management. If the problem already has been reviewed with the Sales Manager or Service Manager, contact the Dealer himself or the General Manager.

# LISTING OF AREA DISTRIBUTORS

#### **CANADIAN DISTRIBUTORS**

Quebec Branch 1350 Nobel Boucherville (Quebec) J4B 1A1 (514) 655-6121 Province of Quebec

Ontario Branch 230 Bayview Drive Barrie (Ontario) L4N 4Y8 (705) 728-8600 Province of Ontario

Technical office PO. Box 7060 Riverview (New Brunswick) E1B 1V0 (506) 386-6117 Atlantic Region

BROOKS EQUIPMENT LIMITED 1616 King Edward Street PO. Box 985 Winnipeg (Manitoba) R3C 2V8 (204) 633-7247 British Columbia, Manitoba, Saskatchewan, Alberta, Yukon

CHARLES R. BELL LIMITED Riverside Drive P.O. Box 1050 Corner Brook (Newfoundland) A2H 6J3 (709) 634-3533 Newfoudland, Labrador

HUDSON'S BAY CO. LTD.
165 Hymus Blvd
Pointe-Claire (Quebec) H9R 1G2
(514) 630-5279
North-West Territories, Franklin District &
Keewatin

#### **AMERICAN DISTRIBUTORS**

BOMBARDIER CORPORATION All States (excluding Alaska)

SERVICE OFFICES

 East Main Street Road Malone, New York 12953 (518) 483-4411

Technical office (506) 386-6117 Eastern Region

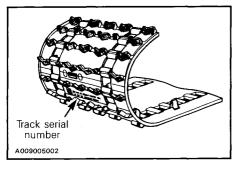
- 4505 West Superior Street
   P.O. Box 16106
   Duluth, Minnesota 55816-0106
   (218) 628-2881
   East-Central, Central Region
- P.O. Box 1569 Idaho Falls, Idaho 83403 (208) 529-9510 Western Region

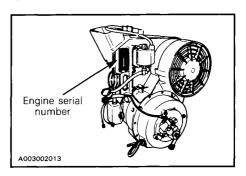
NATIONAL SALES OFFICE O'Hare Lake Plaza 2350 Devon Avenue Suite 150 Des Plaines, Illinois 60018 (312) 298-9540

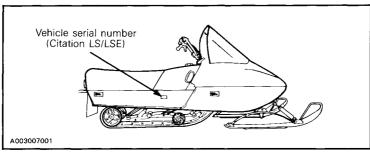
MILLER EQUIPMENT AND RECREATIONAL CENTER 1049 Whitney Road Anchorage, Alaska 99501 (907) 274-9513 Alaska

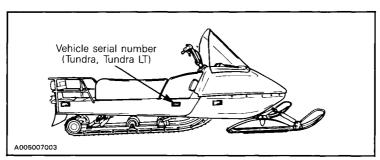
# HOW TO IDENTIFY YOUR SNOWMOBILE ...

The main components of your snowmobile (engine, track and frame) are identified by different serial numbers. It may sometimes become necessary to locate these numbers for warranty purposes or to trace your snowmobile in the event of theft.

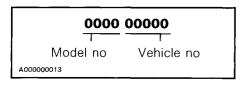








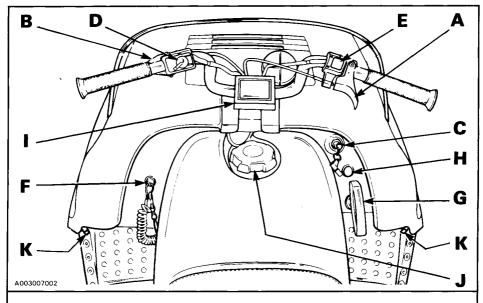
# Vehicle serial number meaning:



1988 Citation LS/LSE, Tundra, Tundra LT have model number 3223, 3224, 3225 and 3226 respectively.

NOTE: We strongly recommend that you take note of all the serial numbers on your vehicle and supply them to your insurance company. It will surely help in the event your snowmobile is stolen.

# **CONTROLS/INSTRUMENTS**



- A) Throttle Control Lever
- B) Brake Control Lever
- C) Ignition/Light Switch
- D) Headlamp Dimmer Switch
- E) Emergency Cut-out Switch
- F) Tether Cut-out Switch

- G) Rewind Starter Handle
- H) Primer
- 1) Adjustable Steering Handle
- J) Fuel Gauge/Tank Čap
- K) Hood Opening

## A) Throttle Lever

Located on the right side of handlebar. When compressed, it controls the engine speed and the engagement of the transmission. When released, engine speed returns automatically to idle.

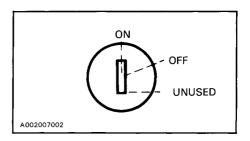
## B) Brake Lever

Located on the left side of handlebar. When compressed, the brake is applied. When released, it automatically returns to its original position. Braking effect is proportionate to the pressure applied on the lever and to the type of terrain and its snow coverage.

# C) Ignition/Light Switch

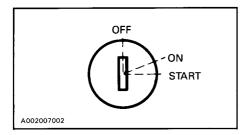
The lights are automatically ON whenever the engine is running.

#### Manual starting



Key operated, 3 position switch. To start engine, first turn key to ON position. To stop engine, turn key to OFF position. The 3<sup>rd</sup> position is unused.

#### **Electric starting**

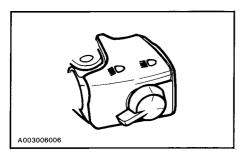


Key operated, 3 position switch. To start engine, turn key to START position and hold. Return key to ON position immediately when engine has started. To stop engine, turn key to OFF position.

CAUTION: Holding key in START position when engine has started could damage starter mechanism.

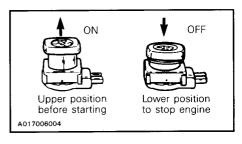
# D) Headlamp Dimmer Switch

The dimmer switch, located on left side of handlebar, allows correct selection of headlamp beam. To obtain high or low beam simply flick switch.



# E) Emergency Cut-out Switch

A push pull type switch located on the right side of the handlebar. To stop the engine in an emergency, push the button to the lower off position and simultaneously apply the brakes. To start engine, button must be at the upper ON position.



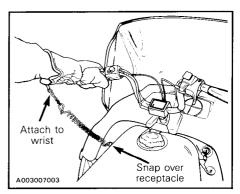
WARNING: For safety reasons, the emergency cut-off switch is easily accessible; be careful not to operate it inadvertently.

The driver of this vehicle should familiarize himself with the function of this device by using it several times on first outing. Thereby being mentally prepared for emergency situations requiring its use.

WARNING: If the switch has been used in an emergency situation the source of malfunction should be determined and corrected before restarting engine.

## F) Tether Cut-out Switch

Attach tether cord to wrist or other convenient location then snap tether cutout cap over receptacle before starting engine.



If emergency engine "shut off" is required, completely pull cap from safety switch and engine power will be automatically shut "off".

NOTE: The cap must be installed on the safety switch at all times in order to operate the vehicle.

WARNING: If the switch is used in an emergency situation the source of malfunction should be determined and corrected before restarting engine.

#### **G) Rewind Starter Handle**

Auto rewind type located on right hand side of vehicle. To engage mechanism, pull handle.

## H) Primer

A push-pull button. Pull and push button (2-3 times) to activate primer. The primer should always be used for cold engine starts. After engine is warm however, it is not necessary to use primer when starting.

# I) Adjustable Steering Handle

- Remove steering cover.
- Loosen the four (4) retaining screws.
- Adjust the handle to the desired position.

WARNING: Do not adjust too high as the brake lever may contact the windshield when turning.

- Lock the steering handle in place by tightening the four (4) retaining screws to 26 N•m (19 lbf•ft).
- Reinstall steering cover.

# J) Fuel Gauge/Tank Cap

Unscrew fuel tank cap and withdraw dipstick to check fuel level. WARNING: Remove fuel tank cap slowly. Fuel may be under pressure and spray may cause fire and injuries.



WARNING: Never use a lit match or open flame to check fuel level.

# K) Hood Opening

Pull down the latches to unlock the hood from the anchors.

 $\bigcirc$ 

NOTE: Always lift hood gently up until stopped by restraining device.

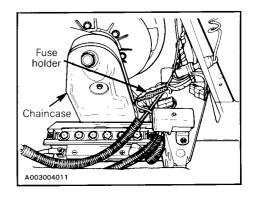
WARNING: It is dangerous to run an engine with the hood opened unfastened or removed.

#### **Tool Box**

Located under the hood. To gain access, tilt hood. Ideal location for spare spark plugs, rope, first aid kit, etc.

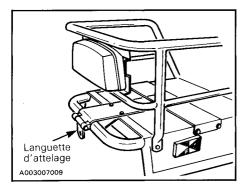
# Fuse Holder (Electric Starting Only)

Starting system is protected with a 30 amperes rated fuse. Fuse holder is located close to the battery. If starter does not work, check fuse condition and if required replace with one of the same value.



## **Attelage**

#### (Modèles Tundra seulement)



Le véhicule comporte un attelage à languette sur le pare-chocs arrière. Un crochet peut être installé sur l'attelage actuel. Communiquer avec le concessionnaire autorisé pour de plus amples informations

Les carrioles et les remorques tirées par une motoneige doivent être chargées de façon à obtenir le centre de gravité le plus bas possible. Utiliser une barre de retenue rigide. Lorsqu'il y a des passagers en remorque, conduire modérément et éviter les terrains inégaux. De plus, lorsque pour traverser une route, faire descendre les passagers de la remorque.

#### Accessoires

Certains accessoires en option peuvent être ajoutés à votre véhicule tels indicateur de vitesse, compte-tours, attelage, démarreur électrique, etc. Communiquer avec le concessionnaire autorisé pour de plus amples informations.

# RODAGE \_

#### Moteur

Il est important que ce moteur de motoneige Bombardier-Rotax subisse une période de rodage avant d'être utilisé à sa puissance maximale. Le fabricant recommande fortement de 10 à 15 heures de fonctionnement. Cependant, bien qu'il faille éviter de maintenir une vitesse élevée, de surcharger le véhicule et de surchauffer le moteur, on recommande de soumettre un moteur en cours de rodage à quelques accélérations vigoureuses ainsi qu'à de fréquentes variations de régime.

REMARQUE: Pour assurer une protection additionnelle au cours de la période de rodage du moteur, ajouter à l'essence 500 ml (18 oz) d'huile BLIZZARD (N/P 496 0135 00) ou d'huile à injection Bombardier lors du premier plein.

ATTENTION: Déposer et nettoyer la bougie après le rodage du moteur.

#### Courroie

Une courroie d'entraînement neuve doit subir un rodage de 25 km (15 milles).

#### **Révision - 10 Heures**

Dans un mécanisme, toute pièce de précision doit faire l'objet d'une vérification périodique. Il en va de même pour une motoneige. C'est pourquoi nous recommandons de faire réviser le véhicule par le concessionnaire autorisé, et ce, à la première de ces deux éventualités: après les 10 premières heures d'utilisation ou 30 jours après l'achat.

Par la même occasion, il sera possible de discuter avec le concessionnaire de toutes les questions auxquelles vous ne trouvez pas de réponse.

Cette vérification est laissée aux frais du client.

VÉRIFICATIONS À EFFEC	TUER	1
Réglage de l'allumage		
Tension de la courroie du ventilateu	ır	
État de la bougie (enlever et nettoy		
Réglage du carburateur	017	
Réglage de la pompe à injection d'	huile	
Niveau d'électrolyte (démarrage éle		
<u> </u>	ctrique seulement,	
Vis de la poulie motrice		
Écrous du support de moteur		<u> </u>
Attaches du silencieux		
Niveau d'huile du carter de chaîne		
Niveau d'huile du système d'injection	on	
Fonctionnement du frein et état des	s garnitures	
Alignement des skis (état des lisses	s)	
Bras de direction, resserrer à 50 N	em (37 lbf•pi)	
Boulons du guidon, resserrer à 26 l	N•m (19 lbf•pi)	
Alignement des poulies et état de l	a courroie d'entraînement	
État, tension et alignement de la ch	nenille	
Lubrification (direction, suspension,	essieu moteur, etc.)	
Circuit électrique (raccords desserré endommagé); serrage des écrous, d	és, fils dénudés, isolant les boulons et des raccords	
Fonctionnement du système d'éclair de l'interrupteur d'urgence et du ca	rage (phare, feu d'arrêt, etc.), puchon coupe-circuit	
On recommande de faire signer le vérification.	concessionnaire à la suite de	e cette
Date de la révision	Signature du concessionnaire	

14 \_\_\_\_\_

# **FUEL & OIL**

#### Recommended Gasoline

Use regular leaded or unleaded gasoline available from all service stations.

WARNING: Remove fuel tank cap slowly. Fuel may be under pressure and spray may cause fire and injuries.

WARNING: Gasoline is flammable and explosive under certain conditions. Always manipulate in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity.

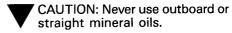
CAUTION: Never experiment with other fuels or fuel ratios. The use of gasoline containing alcohol such as methanol, ethanol (commonly called gasohol) or similar products including naphta is not recommended. The use of gasoline containing alcohol can result in vehicle performance deterioration and damage to critical parts in the fuel system and engine components.

WARNING: Never "top up" the gas tank before placing the vehicle in a warm area. At certain temperatures, gasoline will expand and overflow. Always wipe off any gasoline spillage from the snowmobile.

## **Recommended Oil**

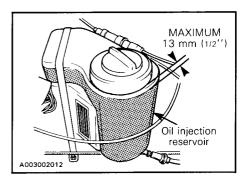
Use "Bombardier Snowmobile Injection Oil" (P/N 496 0133 00 - 1 liter) available from the authorized dealer. This type of oil will flow at temperature as low as minus 40°C (-40°F).

If "Bombardier Snowmobile Injection Oil" is unavailable, substitute with BLIZZARD OIL (P/N 496 0135 00 - 500 ml).



## Oil Injection System

Always maintain a sufficient amount of "Bombardier Snowmobile Injection Oil" in the injection oil tank.



CAUTION: Check level and refill every time you refuel. Do not overfill.

NOTE: To assure additionnal protection during the initial engine break-in, 500 ml (18 oz) of BLIZZARD OIL (P/N 496 0135 00) or the same quantity of Bombardier Injection oil should be added to gas for the **first** full gas tank filling.

# PRE-START CHECK

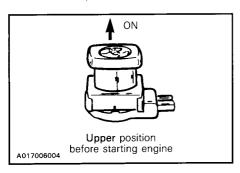
#### **Check Points**

- ACTIVATE THE THROTTLE CONTROL I EVER SEVERAL TIMES to check that it operates easily and smoothly. The throttle control lever must return to idle position when released.
- Check fuel level.
- · Check injection oil level.
- · Check that the skis and the track are not frozen to the ground or snow surface and that steering operates freely.
- Activate the brake control lever and make sure the brake fully applies before the brake control lever touches the handlebar grip.
- · Verify that the path ahead of the vehicle is clear of bystanders and obstacles.
- Clean and check operation of the headlight, taillight and brake light.
- WARNING: Only start your snowmobile once all components are checked and functioning properly.

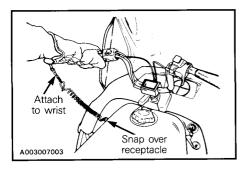
# **STARTING PROCEDURE**

Test throttle control lever operation.

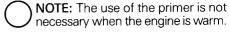
Check that the emergency cut-out switch is in the ON position.



Ensure the tether cut-out cap is in position and that the cord is attached to vour clothina.



Activate the primer (2 or 3 times).



# **Manual Starting**

Insert the key in the ignition and turn to ON position.

Grasp manual starter handle firmly and pull slowly until a resistance is felt then pull vigorously. Slowly release the rewind starter handle.

WARNING: Do not apply throttle while starting.

# **Electric Starting**

CAUTION: Never operate your snowmobile with the battery removed or disconnected. As it reduces voltage fluctuations, operating vehicle without battery might cause instruments or bulbs failure.

Insert key in ignition switch.

Turn ignition key clockwise until starter engages.

CAUTION: To avoid starter overheating, the cranking period should never exceed 30 seconds and a rest period should be observed between the cranking cycles to let starter cool down.

Release key immediately when engine has started. If engine does not start on first try, key must be turned fully back to OFF each time.

# **Before Riding**

Check operation of the emergency cutout switch, and tether switch. Restart engine.

WARNING: If engine does not shutoff when applying the emergency cut-out switch and or when pulling the tether cut-out cap, stop the engine by turning off the ignition key. Do not operate the vehicle further, see your authorized dealer.

Allow the engine to warm before operating at full throttle.

## **Emergency Starting**

Should the rewind starter rope fray and break, the engine can be started with the emergency starter rope, supplied with the tool kit.

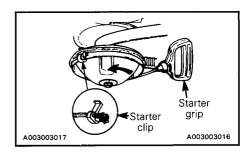
WARNING: Do not start the vehicle by the drive pulley unless it is a true emergency situation, have the vehicle repaired as soon as possible.

Remove the belt guard from vehicle. (See "Maintenance section").

#### Citation LS/LSE

Assemble the starter clip and the handle to the emergency starting rope and wind the rope tightly around the drive pulley.

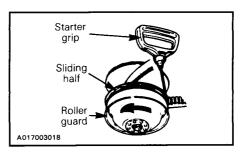
NOTE: The spark plug socket can be used as an emergency starter grip.



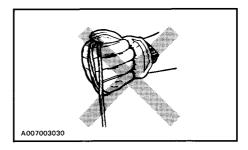
#### Tundra, Tundra LT

Wind emergency starting rope tightly around the drive pulley between sliding half pulley and roller guard.

NOTE: The spark plug socket can be used as an emergency starter grip.



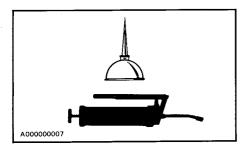
WARNING: Do not wind starting rope around your hand. Hold rope by the handle only.



Start as per manual starting procedure.

WARNING: When starting the vehicle in an emergency situation by the drive pulley, do not reinstall the belt guard.

# LUBRICATION



# **Frequency**

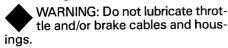
Routine maintenance is necessary for all mechanized products, and the snowmobile is no exception. A weekly vehicle inspection contributes to the life span of the snowmobile.

It is recommended that the steering system and suspension be lubricated monthly or every 40 hours of operation. If the vehicle is operated in wet snow or in severe conditions these items should be lubricated more frequently.

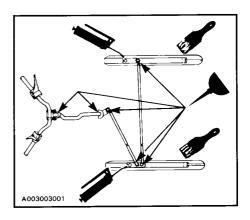
NOTE: When lubricating grease fittings, grease until grease appears at joints. Always use low temperature grease (P/N 413 7061 00).

WARNING: Only perform such procedures as detailed in this manual. It is recommended that dealer assistance be periodically obtained on other components/systems not covered in this manual. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.

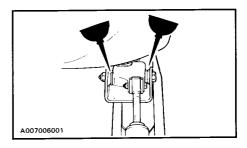
# Steering Mechanism



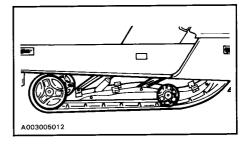
Lubricate the ski legs at grease fittings until new grease appears at joints. Coat spring slider cushion with grease.



Oil spring coupler bolts, ball joints and steering column bushings.



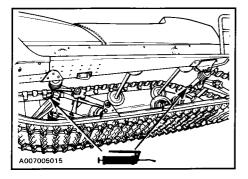
# Slide Suspension Citation LS/LSE



This suspension type does not require any lubrication.

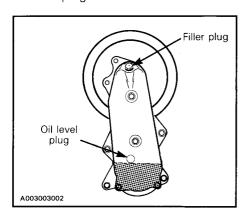
#### Tundra, Tundra LT

Lubricate front & rear arms at grease fittings with low temperature grease only. (P/N 413 7061 00).



#### Chaincase Oil Level

Check the oil by removing the chaincase oil level plug.

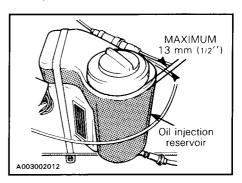


The oil should be level with the bottom of the oil level orifice. Refill as required using Bombardier chaincase oil (P/N 413 8019 00 - 250 ml)

NOTE: The chaincase oil capacity is approximately 200 ml (7 oz).

## **Oil Injection System**

Always maintain a sufficient amount of Bombardier Snowmobile Injection Oil in the injection oil tank.



fill.

CAUTION: Check level and refill every time you refuel. Do not over-

# **Drive Pulley**

The drive pulley is lubrication free.

## **Driven Pulley**

Remove pulley guard and slip off drive belt. Open the driven pulley, (push and twist sliding half.)

Thoroughly clean the driven pulley shaft.

Apply a light film of low-temperature grease on the shaft. Always wipe off surplus.

**NOTE:** Activate the sliding half several times to distribute lubricant over full length of shaft. Be careful that lubricant does not get on inner halves of pullev.

# **MAINTENANCE**

The following Maintenance Chart indicates regular servicing schedules to be performed by yourself or your authorized dealer. If these services are performed as suggested, your snowmobile will give many years of use.

WARNING: Only perform such procedures as detailed in this manual. It is recommended that dealer assistance be periodically obtained on other components/systems not covered in this this manual. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.

MAINTENANCE CHART	Weekly or every 240km (150mi)	Monthly or every 800 km (500 mi)	Once a year or every 3200 km (2000 mi)	Refer to page
Drive belt condition				22
Brake condition				23
Brake adjustment				23
Spark plug				24
Battery (electric starting)				24
Suspension condition				25
Suspension stopper strap condition				25
Suspension adjustment	(a	(as required)		
Track condition				26
Track tension and alignment	(as required)			26
Drive pulley				28
Steering mechanism				28
Ski and runner wear and condition				28
Steering adjustment				28
Muffler attachment				29
Engine mount nuts				29
Carburator adjustment				29
Injection oil filter condition				30
Oil injection pump adjustment				30
Fan belt				30
Headlamp beam aiming				30
General inspection				31

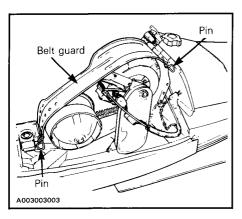
	NOTE: The ten hour inspection is a very important part of proper service and
しっ	maintenance

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#### **Belt Guard Removal**

WARNING: Belt guard should always be in place when engine is running.

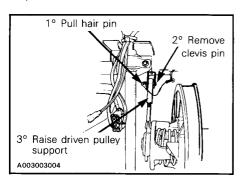
- A. Raise the hood and pull both retaining pins out.
- B. Remove the guard.



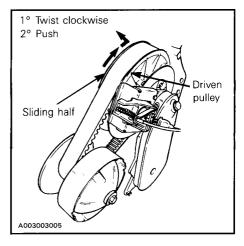
# **Drive Belt Removal and Installation**

WARNING: Never start or run engine without the drive belt installed. Running an unloaded engine is dangerous.

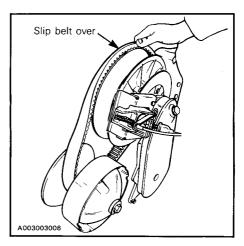
- 1. Tilt the hood and remove the belt guard.
- 2. Unlock and raise driven pulley support.



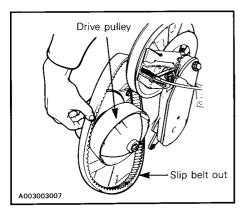
3. Open the driven pulley by twisting and pushing the sliding half. Hold in fully open position.



4. Slip the belt over the top edge of the sliding half.

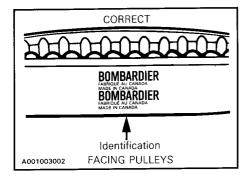


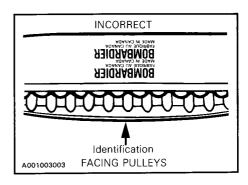
5. Slip the belt out from the drive pulley and remove completely from vehicle.



To install the drive belt, reverse the procedure, however pay attention to the following:

The maximum drive belt life span is obtained when the belt has the proper rotation direction. Install it so the printed information on the belt can be read when facing pulleys.





CAUTION: Do not force or use tools to pry the belt into place, as this could cut or break the cords in the belt.

## **Drive Belt Condition**

Inspect belt for cracks, fraying or abnormal wear (uneven wear, wear on one side, missing cogs, cracked fabric). If abnormal wear is noted, probable cause could be pulley misalignment, excessive R.P.M. with frozen track, fast starts without warm-up period, burred sheave, oil on belt or distorted spare belt. Contact your authorized dealer.

Check the drive belt width. If less than 30 mm (1 3/16 in), replace the drive belt.

## **New Drive Belt**

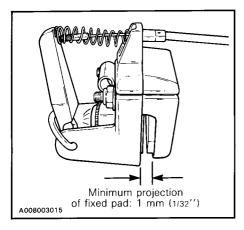
When installing a new drive belt, breakin period of 25 km (15 miles) is strongly recommended.

NOTE: Always store a spare belt in a manner to allow its natural shape to be maintained.

#### **Brake Condition**

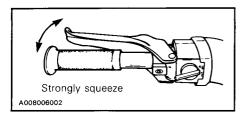
The brake mechanism on your snowmobile is an essential safety device. Keep this mechanism in proper working condition. Above all, do not operate your snowmobile without an effective brake system.

WARNING: Brake pads must be replaced as soon as only 1 mm (1/32") of the fixed lining is still projected out of caliper. Replacement must be performed by an authorized dealer.

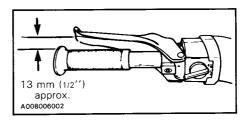


# **Brake Adjustment**

The brake mechanism is a self-adjusting type. If a quicker brake response is desired, strongly squeeze the brake lever several times, this will actuate the self adjusting mechanism.



After the adjustment, brake should apply fully when lever is approximatively 13 mm (1/2'') from handlebar grip. If not, do not tamper with the brake, contact your authorized dealer.



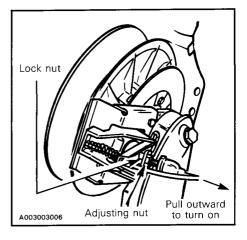
# Brake Light Switch Adjustment

To check operation:

Pull the brake lever to hold the pads on the disc. Check that a light resistance is felt while rotating the driven pulley. This is the position where the switch should have turned the brake light on.

#### To adjust:

- Loosen the brake switch lock nut while restraining the other one.
- By turning adjusting nut, pull the switch outward to turn the light on or push inward to turn it off.



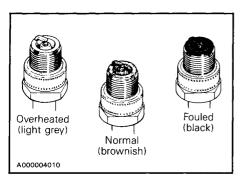
 Tighten the lock nut while restraining the other one. Recheck brake light operation.

# **Spark Plug**

Disconnect the spark plug wire and remove the spark plug.

Check the condition of the plug.

- A brownish tip reflects ideal conditions. (Carburetor adjustments, spark plug heat range, etc., are correct).
- A black insulator tip indicates fouling caused by: carburetor idle speed mixture and/or high speed mixture too rich, incorrect fuel mixture ratio, wrong type of spark plug (heat range), or excessive idling.
- A light grey insulator tip indicates a lean mixture caused by: carburetor high speed mixture adjusted too lean, wrong spark plug heat range, incorrect fuel mixture ratio, or a leaking seal or gasket.



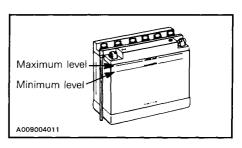
CAUTION: If spark plug condition is not ideal, contact your authorized dealer.

Check spark plug gap using a wire feeler gauge. It should be 0.4 mm (.016"). Reinstall plug and connect wire.

## **Battery**

## (Electric Starting Only)

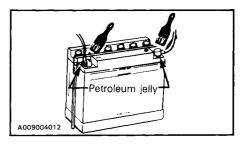
Check electrolyte level weekly. Electrolyte level must be at upper level line on battery casing.



If necessary add distilled water. Battery connections must also be free of corrosion. If cleaning is necessary remove corrosion using a stiff brush then clean with a solution of baking soda and water. Rinse and dry well.

CAUTION: Do not allow cleaning solution to enter battery. It will destroy the chemical properties of the electrolyte.

After reconnecting battery, coat battery terminals and connectors with petroleum jelly to prevent corrosion. Check that battery is well secured and that battery vent tube is not kinked or blocked.



WARNING: Vent tube must be free and open. If not, it will restrict ventilation and create a gas accumulation that could result in an explosion. Avoid skin contact with electrolyte.

CAUTION: Prior to charging the battery, always remove it from the vehicle to prevent electrolyte spillage.

CAUTION: Be careful not to ground positive terminal with the chassis. Always disconnect black negative cable first.

WARNING: Gases given off by a battery being charged are highly explosive. Always charge in a well ventilated area. Keep battery away from cigarettes or open flames. Avoid skin contact with electrolyte.

NOTE: Always keep battery fully charged. (To charge, refer to "Battery" in "Storage" section).

## **Suspension Condition**

Visually inspect all suspension components including slider shoes, springs, wheels, etc.

NOTE: During normal driving, snow will act as a lubricant and coolant for the slider shoes. Extensive riding on ice or sanded snow, will create excessive heat build-up and cause premature slider shoe wear.

# **Stopper Strap Condition**

Inspect strap for wear and cracks, bolt and nut for tightness. If loose inspect holes for deformation. Replace as required. Torque nut to:

Citation LS/LSE: 7 N•m (62 lbf•in). Tundra, Tundra LT: 9 N•m (80 lbf•in).

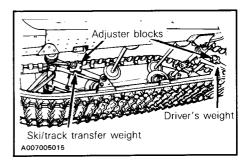
# Suspension Adjustment Adjuster blocks

#### CITATION LS/LSE

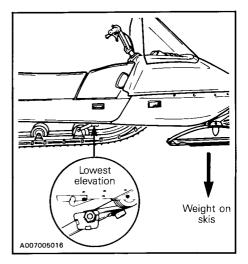
These models do not have any adjustment on the suspension springs.

#### TUNDRA, TUNDRA LT

The suspension is adjustable, the front adjustment for surface condition, the rear for driver's weight.



When the front adjuster blocks are at the lowest elevation more weight is distributed on the skis.



At the highest position the weight is transferred from the skis to the track. The rear adjuster blocks should be adjusted to suit the driver's preference.

CAUTION: Always turn the left side adjuster blocks in a clockwise direction, the right side blocks in a counterclockwise direction. Left and right adjuster blocks of each adjustment must always be set at the same elevation.

NOTE: For deep snow condition or hill climbing, it is recommended to place the front adjuster blocks on the lowest position and set stopper strap to the shortest position.

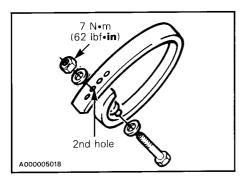
# **Stopper Strap**

The function of the suspension stopper strap is to control the transfer of vehicle weight during acceleration. The longer the belt, the more the weight will be transferred to the track to provide a better traction. The shorter the belt, the lesser the weight transferred to the track, thus maintaining a more positive direction. Adjusting holes on the stopper strap allow to adjust it according to driver's requirements, field and or snow conditions.

#### CITATION LS/LSE:

For normal use locate bolt through  $2^{nd}$  hole from strap end.

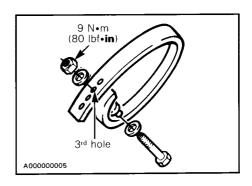
WARNING: Always torque the nut to 7 N•m (62 lbf•in). Replace strap if worn or torn.



#### TUNDRA, TUNDRA LT

For normal use locate bolt through 3<sup>rd</sup> hole from strap end.

WARNING: Always torque the nut to 9 N•m (80 lbf•in). Replace strap if worn or torn.



#### **Track Condition**

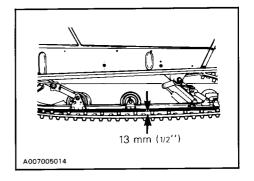
Lift the rear of the vehicle and support it off the ground. With the engine off, rotate the track by hand, and inspect condition. If worn or cut, or if track fibers are exposed, or if missing or defective inserts or guides are noted; contact your authorized dealer.

WARNING: Do not operate a snowmobile with a cut, torn or damaged track.

# Track Tension and Alignment

#### **Tension:**

Lift the rear of vehicle and support with a mechanical stand. Allow the suspension to extend normally. The gap should be 13 mm (1/2") between the slider shoe and the bottom inside of the track. If the track tension is too loose, the track will have a tendency to thump.

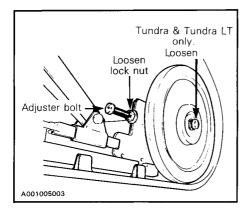


CAUTION: Too much tension will result in power loss and excessive stresses on suspension components.

To adjust tension:

- Loosen the rear idler wheel retaining screw (on the Tundra & Tundra LT only).
- Loosen the adjuster bolt lock nuts then turn adjuster bolts to adjust.

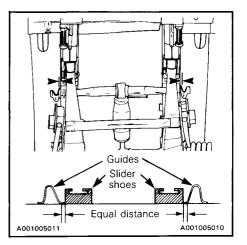
If correct tension is unattainable, contact your authorized dealer.



NOTE: Track tension and alignment are inter-related. Do not adjust one without the other.

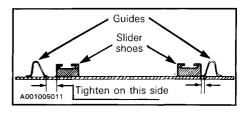
## **Alignment**

Start the engine and accelerate slightly so that track turns **slowly.** Check that the track is well centered; equal distance on both sides between edges of track guides and slider shoes.

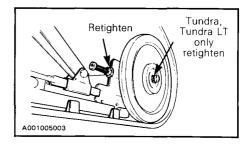


WARNING: Before checking track alignment, ensure that the track is free of all particles which could be thrown out while track is rotating. Keep hands, tools, feet and clothing clear of track. Ensure no-one is standing in close proximity to the vehicle.

To correct, **stop the engine:** Loosen the lock nuts and tighten the adjuster bolt on side where the slider shoe is the farthest from the track insert guides.



Tighten lock nuts and recheck the alignment.



# **Drive Pulley**

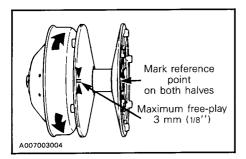
WARNING: The drive pulley must be inspected and cleaned by an authorized dealer at least annually.

#### Citation LS/LSE

Designed with karlon bushings, no lubrication is required.

#### Tundra, Tundra LT

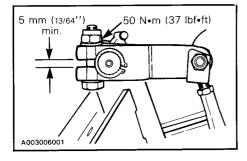
Inspect the Duralon bushing condition by checking the free-play of the sliding half pulley. This is achieved by restraining the inner half and checking if the sliding half moves in the direction of the arrows more than 3 mm (1/8"). If so, contact the dealer. No lubrification is required.



# Steering Mechanism

Inspect the steering mechanism for tightness of components (steering arms, tie rods, ball joints, spring coupler bolts, etc.). If necessary, replace or retighten.

Torque steering arm bolts making sure to keep a minimum gap of 5 mm (13/64'') between lugs.



WARNING: Check the condition of the skis and the ski runners. Replace if more than half worn.

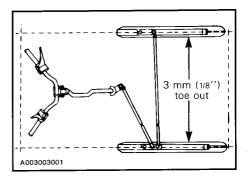
## **Steering Adjustment**

Skis should have a toe out of 3 mm (1/8''). To check, measure the distance between each ski at the front and rear of the leaf spring. The front distance should be 3 mm (1/8'') more than the rear when the handlebar is horizontal.

**IMPORTANT:** Close the front of the skis manually to eliminate all slack from the steering mechanism.

If adjustment is required:

Loosen the lock nuts of the longest tie rod. Turn the tie rod manually until the skis are properly aligned. Firmly retighten the lock nuts.

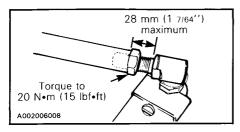


The handlebar should also be horizontal when the skis are pointed toward the front.

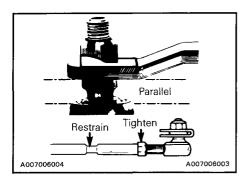
To adjust:

Loosen the lock nuts of the shortest tie rod. Turn the tie rod manually until the handlebar is horizontal. Retighten the lock nuts firmly.

WARNING: The maximum ball joint external threaded length not engaged in the tie rod end must not exceed 28 mm (1 7/64"). Torque lock nut to 20 N•m (15 lbf•ft).



WARNING: The ball joint socket must run parallel with the steering arm. The tie rod must be restrained when tightening the tie rod end lock nuts.



## **Muffler Attachment**

The engine/exhaust system parts are vital toward efficient muffler function. Check all attachments and muffler ball joint. Replace the springs and/or tighten if necessary.

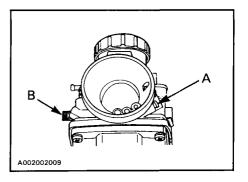
CAUTION: Do not operate vehicle with muffler disconnected otherwise serious engine damage will occur.

## **Engine Mount Nuts**

Check the engine mount nuts for tightness. Retorque if required to 55 N•m (41 lbf•ft).

# **Carburetor Adjustment**

CAUTION: Never operate your snowmobile with the air intake silencer disconnected. Serious engine damage will occur if this notice is disregarded.



#### A) Air Screw Adjustment

Completely close the **air** screw (until a slight seating resistance is felt) then back off screw: 1 turn.

#### **B) Idle Speed Adjustment**

Turn the **idle speed** screw clockwise until it contacts the throttle slide then continue turning two (2) additional turns. This will provide a preliminary idle speed setting. Start engine and allow it to warm then adjust the idle speed to 1100-1300 R.P.M. by turning the idle speed screw clockwise or counterclockwise.

CAUTION: Do not attempt to set the idle speed by using the air screw. Severe engine damage can occur. If idle speed is unattainable contact your authorized dealer.

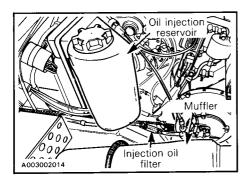
## **High Altitude Kit**

Snowmobiles used in high altitude areas (1900 m (4000 ft and up) are subjected to lose power, about 3% per 470 m (1000 ft) of elevation increase. The carburetor and power train have to be recalibrated to meet those particular requirements. Ask your authorized dealer for more information on high altitude kit availability.

# Oil Injection System

#### **Injection Oil Filter Condition**

Inspect oil filter at least once a month. Insure that filter is not obstructed by foreign particles; if so, see your authorized dealer.



CAUTION: An obstructed injection oil filter will cause oil starvation resulting in serious engine damage.

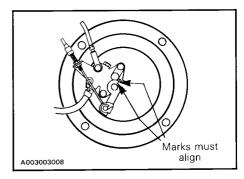
NOTE: After a storage period, it is important that your authorized dealer replace the injection oil filter and that he verifies the oil flow of the injection pump.

# **Injection Pump Adjustment**

Proper oil injection pump adjustment is very important. Any delay in the opening of the pump can result in serious engine damage.

To check adjustment: eliminate the throttle cable free-play by pressing the throttle lever until a slight resistance is felt then hold in place. The aligning marks on the pump casting and lever must align perfectly. If not, contact your dealer.

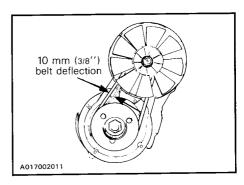
Injection pump should be adjusted by your authorized dealer.



CAUTION: The carburetor must be adjusted before adjusting the oil injection pump. Make sure the idle speed is 1100-1300 R.P.M.

#### Fan Belt

Inspect belt for cracks, uneven wear, etc. Check fan belt tension, 10 mm (3/8") should exist when deflection is correct.



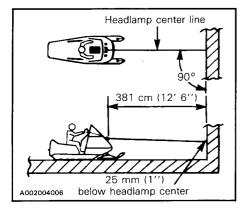
If belt seems damaged or if tension is incorrect, contact your authorized dealer immediately.

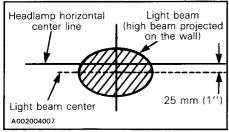
WARNING: If fan protector is removed, always reinstall after servicing.

# **Headlamp Beam Aiming**

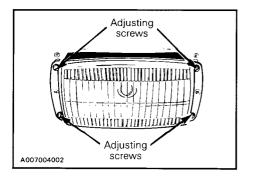
The angle of the headlamp beam has been pre-adjusted prior to delivery. Should you wish re-adjustment, place the vehicle on a flat surface 381 cm (12' 6'') from a wall or screen.

With the suspension correctly adjusted, the rider seated on the vehicle and the high beam ON check that the center of high intensity zone of high beam is 25 mm (1") below horizontal line of headlamp height.



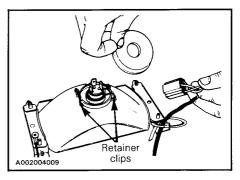


To adjust, remove the four caps, turn upper or lower adjusting screws to obtain desired beam position.



## **Bulb Replacement**

If the headlamp bulb is burnt, tilt hood, unplug the connector from the headlamp. Remove the rubber boot and unfasten bulb retainer clips. Detach the bulb and replace.



If taillight bulb is burnt, expose the bulb by removing the red plastic lens. To remove, unfasten the two (2) screws.



WARNING: Always check light operation after bulb replacement.

## **General Inspection**

Check the electrical wiring and components, retighten loose connections. Check for stripped wires or damaged insulation. Thoroughly inspect the vehicle and tighten loose bolts, nuts and linkage. Inspect skis and ski runners for wear.

# **STORAGE**

It is during summer, or when a vehicle is not in use for any length of time that proper storage is a necessity. Storage of the snowmobile during long periods of inactivity consists of checking and replacing missing, broken or worn parts, proper lubrication and treatment to insure that parts do not become rusted; cleaning items such as carburetor of oil mixtures, to prevent gum and varnish formation within the carburetor; and in general, preparing the vehicle so that when the time comes to use the snowmobile again it will be in top condition.

WARNING: Only perform such procedures as detailed in this manual. It is recommended that dealer assistance be periodically obtained on other components/systems not covered in this manual. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance produres.

#### **Track**

Inspect the track for wear, cuts, missing track guides and broken rods. Make any necessary replacement.

WARNING: Do not operate a snowmobile with a cut, torn or damaged track.

Lift the rear of vehicle until track is clear of the ground then support with a brace or trestle. The snowmobile should be stored in such a way that the track does not stay in contact with the cement floor or bare ground.

NOTE: The track should be rotated periodically, (every 40 days).

CAUTION: To prevent track damage, temperature in the storage area must not exceed 38°C (100°F).

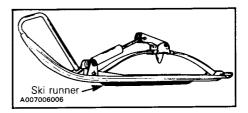
# Suspension

Remove any dirt or rust. Grease idler wheels at grease fittings. (If applicable). Wipe off surplus. Replace worn slider shoes.

#### Skis

Wash or brush all dirt or rust accumulation from the skis and springs. Grease the ski legs at the grease fittings.

WARNING: Check the condition of the skis, ski runners and leaf spring. Replace if weak or worn more than half.



#### **Controls**

Lubricate the steering mechanism. Inspect all components for tightness, (spring coupler bolts, steering arm locking bolts, tie rods, ball joints, etc.) Tighten if necessary. Oil metal moving joints of the brake mechanism.

WARNING: Do not lubricate the throttle and/or brake cables and housings. Avoid getting oil on the brake pads.

Coat all electrical connections and switches with a greaseless metal protector. If unavailable, use petroleum jelly.

## Chaincase

Drain the chaincase and refill to proper level, using fresh chaincase oil (P/N 413 8019 00). To drain, remove the chaincase cover.

# **Drive Pulley**

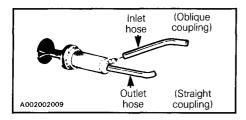
Inspection and cleaning must be performed by an authorized dealer at the end of each season.

# Engine and Primer Lubrication

Engine internal parts must be lubricated to protect them from possible rust formation during the storage period.

To perform the storage procedures (engine and primer valve) proceed as follows:

- 1. Lift the rear of the vehicle and support it off the ground.
- WARNING: Ensure the track is free of all particles which could be thrown out while it is rotating. Keep hands, tools, feet and clothing clear of track. Ensure no one is standing in close proximity to the vehicle.
- Start the engine and allow it to run at idle speed until the engine reaches its operational temperature.
- 3. Stop the engine.
- 4. Disconnect the inlet primer hose from the primer valve.



- 5. Plug inlet primer hose to prevent gasoline from draining.
- Using an appropriate hose, connect one end of the hose to the inlet of the primer valve and place the other end in a Bombardier Snowmobile Injection Oil container.
- Activate the primer in order to fill it with oil.
- 8. Restart engine and run at idle.
- Using the primer valve, inject oil until the engine dies or until a sufficient quantity of oil has entered the engine (approximately 25 complete strokes of the primer).
- 10. The engine stopped, remove the spark plug and pour approximately 85 ml (3 fl. imp. oz) of oil into the cylinder.

- 11. Crank the engine to allow the crankshaft to turn 2 or 3 revolutions.
- 12. Reinstall the spark plug and the inlet primer hose.

Do not run engine during storage period.

## **Driven Pulley**

Remove pulley guard and slip off drive belt. Open the driven pulley, (push and twist sliding half).

Thoroughly clean the driven pulley shaft.

Apply a light film of low-temperature grease on the shaft. Always wipe off surplus.

NOTE: Activate the sliding half several times to distribute lubricant over full length of shaft. Be careful that lubricant does not get on inner halves of pulley.

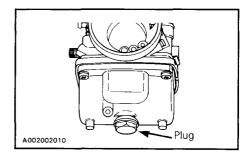
#### **Fuel Tank and Carburetor**

Remove the cap then using a syphon, remove the gasoline from tank.

WARNING: Gasoline is flammable and explosive under certain conditions. Always manipulate in a well ventilated area. Do not smoke or allow open flames or sparks in the vicinity.

Carburetor must be dried out completely to prevent gum formation during the storage period.

Once the fuel tank is emptied, remove the float chamber drain plug from carburetor. Drain carburetor.



Reinstall plug.

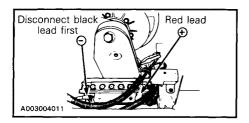
Check all fuel lines, replace if necessary.

## **Battery**

## (Electric Starting Only)

 Disconnect the battery cables and remove the battery retainer cover.

CAUTION: Be careful not to ground positive terminal with the chassis. Always disconnect black negative cable first.



- 2. Remove the battery vent tube from the vent hole.
- 3. Lift out the battery.
- Clean outside surface of battery with solution of baking soda and water. Remove all deposits from posts then rinse with clear tap water.

CAUTION: Do not allow cleaning solution to enter battery interior since it will destroy the electrolyte.

Check electrolyte level. Refill if necessary with distilled water. Fully charge battery at a maximum rate of 2.0 amps.

CAUTION: Prior to charging the battery, always remove it from the vehicle to prevent electrolyte spillage.

WARNING: Gases given off by a battery being charged are highly explosive. Always charge in a well ventilated area. Keep battery away from cigarettes or open flames. Avoid skin contact with electrolyte.

- Coat electrical connections and switches with a greaseless metal protector, if unavailable, use petroleum jelly.
- 7. Store unit in a cool, dry place.

NOTE: To prevent battery from discharging, store it on a wooden shelf away from moisture. A stored battery must be recharged at least every 40 days.

#### Chassis

Clean the vehicle thoroughly, removing all dirt and grease accumulation.

CAUTION: Plastic alloy components such as fuel tank, windshield, controls, etc., can be cleaned using mild detergents or isopropyl alcohol and a soft clean cloth. Never clean plastic parts with strong detergent, degreasing agent, paint thinner, acetone, etc. Do not apply isopropyl alcohol directly on decals.

Inspect the hood and see an authorized dealer to repair any damage. Clean the frame.

Touch up all metal spots where paint has been scratched off. Spray all bare metal parts with metal protector. Wax the hood and the painted portion of the frame for better protection.

NOTE: Apply wax on glossy finish only. Protect the vehicle with a cover to prevent dust accumulation during storage.

CAUTION: If for some reason the snowmobile has to be stored outside it is necessary to cover it with an opaque tarpaulin. This caution will prevent the sun rays and the grime from affecting the plastic components and the vehicle finish.

### **General Inspection**

Check the electrical wiring and components, retighten loose connections. Check for stripped wires or damaged insulation.

Thoroughly inspect the vehicle and tighten loose bolts, nuts and linkage.

NOTE: Leave the drive belt off the pulleys for the entire storage period.

### **Suspension Stopper Strap**

Replace annually and/or as stopper strap condition dictates. Torque nut to:

Citation LS/LSE: 7 N•m (62 lbf•in) Tundra, Tundra LT: 9 N•m (80 lbf•in).

# PRE-SEASON PREPARATION

To simplify the pre-season preparation we have drawn up a small chart. The chart indicates servicing points to be performed by yourself or your authorized dealer. If these services are performed as suggested, your vehicle will give many hours of fun.

IMPORTANT: Observe all Warnings and Cautions mentioned throughout this manual which are pertinent to the item being checked. When component conditions seem less than satisfactory, replace with genuine Bombardier parts or suitable equivalents.

-		
PRE-SEASON	TO BE PERFORMED BY DEALER	•
PREPARATION CHART	TO BE PERFORMED BY THE OWNER	0
Change spark plug*		0
Check chaincase oil level		0
Replace fuel filter (located inside fuel ta	nk)	0
Check track condition, tension and align	ment	0
Lubricate suspension		0
Inspect drive belt and install		0
Check throttle cable for damaged and fr	ee operation	0
Check steering alignment and ski runner	condition	0
Inspect seals for possible cuts or leaks		0_
Check electrical wiring (broken wire, dar	naged insulation)	0
Reinstall battery (electric starting model)		0
Inspect condition of starting rope		0
Check tightness of all bolts, nuts and lin	ıkage	0
Refill gas tank		0
Replace injection oil filter		•
Refill injection oil tank		0
Inspect brake condition and operation		0
Set engine timing		
Check pulleys, verify components and cl	ean, lubricate driven pulley	•
Adjust carburetor		•
Adjust oil injection pump		
Check fan belt condition and adjust tens	ion	•



\*NOTE: Before installing new spark plug, it is suggested to burn the excess storage oil by starting the engine, using the old spark plug.

**V**CA

CAUTION: Only perform this procedure in a well ventilated area.

# TROUBLE SHOOTING

NOTE: The possible causes have been listed in an order of frequency. Therefore, items should be checked out in the same order as mentioned in the trouble shooting guide.

SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
Engine turns over but fails to start or starts with difficulty	1. No fuel to the engine	Check the tank level. Check for possible clogging of fuel line, item 4.
with difficulty	2. Flooded engine	Remove wet spark plug, turn ignition to OFF and crank engine several times. Install clean dry spark plug. Start engine following usual starting procedure. If engine continues to flood, see your authorized dealer.
	3. Spark plug/ignition	Check that emergency cut-out switch is at the upper position (ON) and the tether cut-out switch cap is snapped over the receptacle.
		Check for fouled or defective spark plug. Disconnect spark plug wire, unscrew plug and remove from cylinder head. Reconnect wire and ground exposed plug on engine cowl, being careful to hold away from spark plug hole. Follow engine starting procedure and check for spark. If no sparks appear, replace spark plug. If trouble persists, contact your authorized dealer.
	Clogged fuel line (water or dirt)	Change fuel filter if necessary. Check condition and connections of fuel lines. Check the cleanliness of fuel tank.
	5. Carburetor	Contact your authorized dealer for repair.
	6. Too much oil in fuel 7. Engine timing	See an authorized dealer for oil injection pump adjustment.
		Engine timing may be incorrect or out of adjustment. Contact your authorized dealer.
	8. Engine compression	Running with a lean fuel mixture may produce excessive engine wear resulting in poor engine compression. If this occurs, contact your authorized dealer at once.

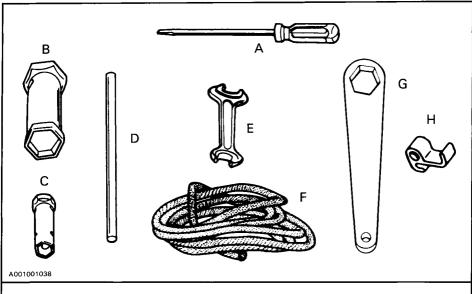
SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
Engine does not turn manually	1. Seized engine	In the case of a seized engine contact your authorized dealer.
Engine lacks acceleration or power	Fouled or defective spark plug	Check item 3 of "Engine turns over but fails to start or starts with difficulty".
	Clogged fuel line (water or dirt)	Check fuel line condition. (See item 4 of "Engine turns over but fails to start or starts with difficulty").
	3. Carburetor	Contact your authorized dealer.
	4. Ignition	First check item 3 of "Engine turns over but fails to start or starts with difficulty". If the ignition system still seems faulty, contact your authorized dealer.
	5. Engine	If unable to locate specific symptoms, contact your authorized dealer.
Engine continually backfires	1. Faulty spark plug	Check item 3 of "Engine turns over but fails to start or starts with difficulty".
	2. Overheated	Carburetor set too lean, contact your authorized dealer.
	3. Engine timing incorrectly set	Contact your authorized dealer.
Snowmobile cannot reach full speed	1. Drive Belt	Check for damaged or worn drive belt. Replace if necessary.
	2. Incorrect track adjustment	Check track tension and alignment. Readjust to specifications. (See Maintenance Section).
	3. Engine	Check item 1 to 5 of "Engine lacks acceleration or power".
	4. Pulley misaligned	Contact your authorized dealer.

38\_\_\_\_\_

### **TOOLS**

As standard equipment each new snowmobile is supplied with basic tools such as screwdriver, wrenches, emergency starter rope, etc.

### **Standard Tools**



- A. Screwdriver
- B. Socket 21/26 mm
- C. Socket 10/13 mm
- D. Socket handle
- E. Fork wrench 10/13 mm

- F. Starter rope
- G. Suspension key (Tundra models only)
- H. Emergency starter clip (Citation models only)

#### CITATION LS CITATION LSE **ENGINE** Type 253 No of cylinders 1 72 mm (2.835") Bore 61 mm (2.402") Stroke 248.4 cm3 (15.16 in3) Displacement Compression ratio (corrected) 6.25:1 Maximum horsepower RPM\* 6500 VM 34-319 Carburator type Carburator adjustment: - air screw 1 turn - idle speed 1100 - 1300 R.P.M. Fan belt deflection 10 mm (3/8") Torque: M8: 26 N·m (19 lbf•ft) crankcase/cylinder nuts M6: 9 N•m (7 lbf•ft) crankcase screws 85 N•m (63 lbf•ft) - magneto ring nut 60 Nem (44 lbfeft) - fan nut 21 Nem (15 lbfeft) crankcase engine support nuts or screws N.A. M5: 3.3 Nem (29 lbfein) electrical starter bolts **CHASSIS** Overall lenght 242 cm (95.3") Overall width 84.5 cm (33.3") 111 cm (43.7") Overall height 72.5 cm (28.5") Ski stance (center to center) 3 mm (1/8") Ski alignment (toe out)

140.6 kg (310 lb)

4748 cm2 (736 in2)

2.96 kPa (.421 lb/in2)

50 N·m (37 lbf•ft)

26 Nom (19 lbfoft)

150.6 kg (332 lb)

4748 cm<sup>2</sup> (736 in<sup>2</sup>)

3.17 kPa (.451 lb/in<sup>2</sup>)

N.A.: Not applicable

Ground pressure

- steering arm/ski leg bolt

- steering column/handlebar

Torque:

Weight Bearing area

<sup>\*</sup>The maximum horse power RPM is applicable with engine on the vehicle. It may be different under certain circumstances and Bombardier Inc. reserves the right to modify it without any obligation.

	CITATION LS	CITATION LSE
POWER TRAIN		
Track:  — width  — length  — tension  — alignment Standard gear ratio Drive belt:  — number  — max. width  — min. width Chaincase oil	38.1 cm (15") 260 cm (102") 13 mm (1/2") gap between slider shoe a Equal distance between edge of track 15/27 414 3758 00 33.3 mm (1 5/16 30 mm (1 3/16" 200 ml (7 oz)	) and bottom inside of track guides and slider shoes  ('') ')
ELECTRICAL		
Lighting system (output) Bulb:	160 W	
<ul><li>headlamp</li><li>tail/stop</li></ul>	60/60 W 5/21 W	
Fuse:  — starter solenoid	N.A.	30 A
Spark plug:  — type  — gap	NGK BR9ES (ND W2 0.4 mm (.016")	
Ignition timing:  — timing mark (B.T.D.C.)  — stroboscopic timing	1.88 mm (.074'') ( 6000 R.P.M.	18°)
FUEL		
Gas type Fuel tank capacity:	Regular leaded or ur	nleaded
- SI - Imp U.S. Lubrication type Oil type: - SI - Imp U.S.	26 l 5.7 gal. 6.9 gal. Oil injection syst Bombardier oil inject 1.5 l 53 oz 51 oz	
BRAKE		
Type Lining minimum thickness Control lever adjustment	Disc self-adjustin When only 1 mm (1/32'') of fixed pad i 13 mm (1/2'') minimum distance from han	is projected out of caliper

Bombardier Inc. reserves the right to make changes in design and specifications and/or to make additions to, or improvements in its product without imposing any obligation upon itself to install them on its products previously manufactured.

N.A.: Not applicable

	TUNDRA		TUNDRA LT
ENGINE			
Туре		253	
No of cylinders		1	
Bore		72 mm (2.835'')	
Stroke		61 mm (2.402'')	
Displacement		248.4 cm <sup>3</sup> (15.16 in <sup>3</sup> )	
Compression ratio (corrected)		6.25:1	
Maximum horsepower RPM*		6500	
Carburator type		VM 34-319	
Carburator adjustment:			
<ul><li>air screw</li></ul>		1 turn	
<ul><li>idle speed</li></ul>		1100 - 1300 R.P.M.	
Fan belt deflection		10 mm (3/8'')	
Torque:			
<ul> <li>crankcase/cylinder nuts</li> </ul>		M8: 26 N•m (19 lbf•ft)	
<ul> <li>crankcase screws</li> </ul>		M6: 9 N•m (7 lbf•ft)	
<ul> <li>magneto ring nut</li> </ul>		85 N•m (63 lbf•ft)	
— fan nut		60 N•m (44 lbf•ft)	
<ul> <li>crankcase engine support</li> </ul>	I	21 N•m (15 lbf•ft)	
nuts or screws			
- electrical starter bolts		N.A.	
CHASSIS		<del></del>	
Overall lenght	272 cm (107.1")		287 cm (113'')
Overall width		84.5 cm (33.3")	
Overall height		111 cm (43.7")	
Ski stance (center to center)		72.5 cm (28.5")	
Ski alignment (toe out)		3 mm (1/8'')	
Torque:			
<ul> <li>steering arm/ski leg bolt</li> </ul>		50 N•m (37 lbf•ft)	
<ul> <li>steering column/handleba</li> </ul>	r	26 N•m (19 lbf•ft)	
Weight	148.8 kg (328 lb)		162.4 kg (358 lb)
Bearing area	6600 cm <sup>2</sup> (1023 in <sup>2</sup> )		7581 cm <sup>2</sup> (1175 in <sup>2</sup> )
Ground pressure	2.25 kPa (.321 lb/in <sup>2</sup> )		2.14 kPa (.305 lb/in <sup>2</sup> )

<sup>\*</sup>The maximum horse power RPM is applicable with engine on the vehicle. It may be different under certain circumstances and Bombardier Inc. reserves the right to modify it without any obligation.

N.A.: Not applicable

	TUNDRA	TUNDRA LT
POWER TRAIN		
Track:  — width  — length  — tension  — alignment Standard gear ratio Drive belt:  — number  — max. width  — min. width	38.1 cm (15") 315 cm (124") 13 mm (12") gap between slider shoe and be Equal distance between edge of track guide 12/27 414 5234 00 33.3 mm (1 5/16") 30 mm (1 3/16")	
Chaincase oil	200 ml (7 oz)	
ELECTRICAL		
Lighting system (output) Bulb:	160 W	
<ul><li>— headlamp</li><li>— tail/stop</li></ul>	60/60 W 5/21 W	
Fuse:  — starter solenoid  Spark plug:	N.A.	
— type — gap	NGK BR9ES (ND W24ESR- 0.4 mm (.016'')	-U)
Ignition timing:  — timing mark (B.T.D.C.)  — stroboscopic timing	1.88 mm (.074'') (18°) 6000 R.P.M.	
FUEL		
Gas type Fuel tank capacity:	Regular leaded or unleade	ed
— SI — Imp. — U.S.	26 I 5.7 gal. 6.9 gal.	
Lubrication type Oil type:	Oil injection system Bombardier oil injection o	il
– SI – Imp. – U.S.	1.5 I 53 oz 51 oz	
BRAKE		
Type Lining minimum thickness Control lever adjustment	Disc self-adjusting When only 1 mm (1/32'') of fixed pad is proj 13 mm (1/2'') minimum distance from handleba	

Bombardier Inc. reserves the right to make changes in design and specifications and/or to make additions to, or improvements in its product without imposing any obligation upon itself to install them on its products previously manufactured.

N.A.: Not applicable

### SI\* METRIC INFORMATION GUIDE \_\_\_\_\_

	В	BASE UNITS	
DESCRIPTION		UNIT	SYMBOL
length		meter	m
mass		kilogram	kg
force		Newton	Ν
liquid		liter	
temperature		Celsius	°C
pressure		kilopascal	kPa
torque		Newton meter	N•m
speed		kilometer per hour	km/h
		PREFIXES	
PREFIX	SYMBOL	MEANING	VALUE
kilo	k	one thousand	1000
centi	С	one hundredth	0.01
milli	m	one thousandth	0.001
	CONVE	RSION FACTORS	
TO CONVERT		TO †	MULTIPLY BY
l			
lbf∙ft		lbf•in	12
lbf∙ft imp. oz		U.S. oz	0.96
I			0.96 1.2
imp. oz imp. gal. in		U.S. oz U.S. gal. mm	0.96 1.2 25.4
imp. oz imp. gal. in in		U.S. oz U.S. gal. mm cm	0.96 1.2 25.4 2.54
imp. oz imp. gal. in in ft		U.S. oz U.S. gal. mm cm m	0.96 1.2 25.4 2.54 0.3
imp. oz imp. gal. in in ft MPH		U.S. oz U.S. gal. mm cm m km/h	0.96 1.2 25.4 2.54 0.3 1.61
imp. oz imp. gal. in in ft MPH in <sup>2</sup>		U.S. oz U.S. gal. mm cm m km/h cm <sup>2</sup>	0.96 1.2 25.4 2.54 0.3 1.61 6.45
imp. oz imp. gal. in in ft MPH in <sup>2</sup> in <sup>3</sup>		U.S. oz U.S. gal. mm cm m km/h cm² cm³	0.96 1.2 25.4 2.54 0.3 1.61 6.45 16.39
imp. oz imp. gal. in in ft MPH in <sup>2</sup> in <sup>3</sup> imp. oz		U.S. oz U.S. gal. mm cm m km/h cm² cm³ ml	0.96 1.2 25.4 2.54 0.3 1.61 6.45 16.39 28.41
imp. oz imp. gal. in in ft MPH in <sup>2</sup> in <sup>3</sup> imp. oz U.S. oz		U.S. oz U.S. gal. mm cm m km/h cm² cm³ ml	0.96 1.2 25.4 2.54 0.3 1.61 6.45 16.39 28.41 29.57
imp. oz imp. gal. in in ft MPH in <sup>2</sup> in <sup>3</sup> imp. oz U.S. oz imp. gal.		U.S. oz U.S. gal. mm cm m km/h cm² cm³ ml	0.96 1.2 25.4 2.54 0.3 1.61 6.45 16.39 28.41 29.57 4.55
imp. oz imp. gal. in ft MPH in² imp. oz U.S. oz imp. gal. U.S. gal.		U.S. oz U.S. gal. mm cm m km/h cm² cm³ ml	0.96 1.2 25.4 2.54 0.3 1.61 6.45 16.39 28.41 29.57
imp. oz imp. gal. in in ft MPH in² imp. oz U.S. oz imp. gal. U.S. gal. oz		U.S. oz U.S. gal. mm cm m km/h cm² cm³ ml l	0.96 1.2 25.4 2.54 0.3 1.61 6.45 16.39 28.41 29.57 4.55 3.79
imp. oz imp. gal. in ft MPH in² imp. oz U.S. oz imp. gal. U.S. gal.		U.S. oz U.S. gal. mm cm m km/h cm² cm³ ml	0.96 1.2 25.4 2.54 0.3 1.61 6.45 16.39 28.41 29.57 4.55 3.79 28.35
imp. oz imp. gal. in in ft MPH in² imp. oz U.S. oz imp. gal. U.S. gal. oz lb		U.S. oz U.S. gal. mm cm m km/h cm² cm³ ml l g	0.96 1.2 25.4 2.54 0.3 1.61 6.45 16.39 28.41 29.57 4.55 3.79 28.35 0.45 4.4
imp. oz imp. gal. in in ft MPH in² imp. oz U.S. oz imp. gal. U.S. gal. oz lb		U.S. oz U.S. gal. mm cm m km/h cm² cm³ ml l g	0.96 1.2 25.4 2.54 0.3 1.61 6.45 16.39 28.41 29.57 4.55 3.79 28.35 0.45 4.4 0.11
imp. oz imp. gal. in in ft MPH in² in³ imp. oz U.S. oz imp. gal. U.S. gal. oz lb lbf lbf•in lbf•ft lbf/in²		U.S. oz U.S. gal. mm cm m km/h cm² cm³ ml l g kg N N•m N•m	0.96 1.2 25.4 2.54 0.3 1.61 6.45 16.39 28.41 29.57 4.55 3.79 28.35 0.45 4.4 0.11 1.36 6.89
imp. oz imp. gal. in in ft MPH in² in³ imp. oz U.S. oz imp. gal. U.S. gal. oz lb lbf lbf•in lbf•ft		U.S. oz U.S. gal. mm cm m km/h cm² cm³ ml l g kg N N•m	0.96 1.2 25.4 2.54 0.3 1.61 6.45 16.39 28.41 29.57 4.55 3.79 28.35 0.45 4.4 0.11

<sup>\*</sup>The international system of units abbreviates "SI" in all languages.

<sup>†</sup>To obtain the inverse sequence, divide by the given factor. To convert ''mm'' to ''in'', divide by 25.4.

## NOTES \_\_\_\_\_

45

### WIRING DIAGRAM

COLOUR	CODE
BK — BLACK WH — WHITE RD — RED BL — BLUE YL — YELLOW	GN — GREEN GY — GREY VI — VIOLET OR — ORANGE BR — BROWN

### WARNING: Ensure all terminals are properly crimped on the wires and all connector housings are properly fastened.

### Manual starting

LOCATION OF CONNECTOR HOUSINGS (REFER TO DIAGRAM)

C-1: On engine, right side C-2: On engine, right side

C-3: On engine, right side C-4: On ignition switch

C-5: In console, left side

C-6: Near steering column C-7: Near steering column

C-8: In hood, near instrument location

C-9: In hood, near instrument location C-10: Near driven pulley

C-11: Between seat and fuel tank C-12: On taillight

C-13: Near voltage regulator

### **Electric starting**

LOCATION OF CONNECTOR HOUSINGS (REFER TO DIAGRAM)

C-1: On engine, right side

C-2: On engine, right side

C-3: On engine, right side

C-4: On ignition switch

C-5: In console, left side

C-6: Near steering column

C-7: Near steering column

C-8: In hood, near instrument location

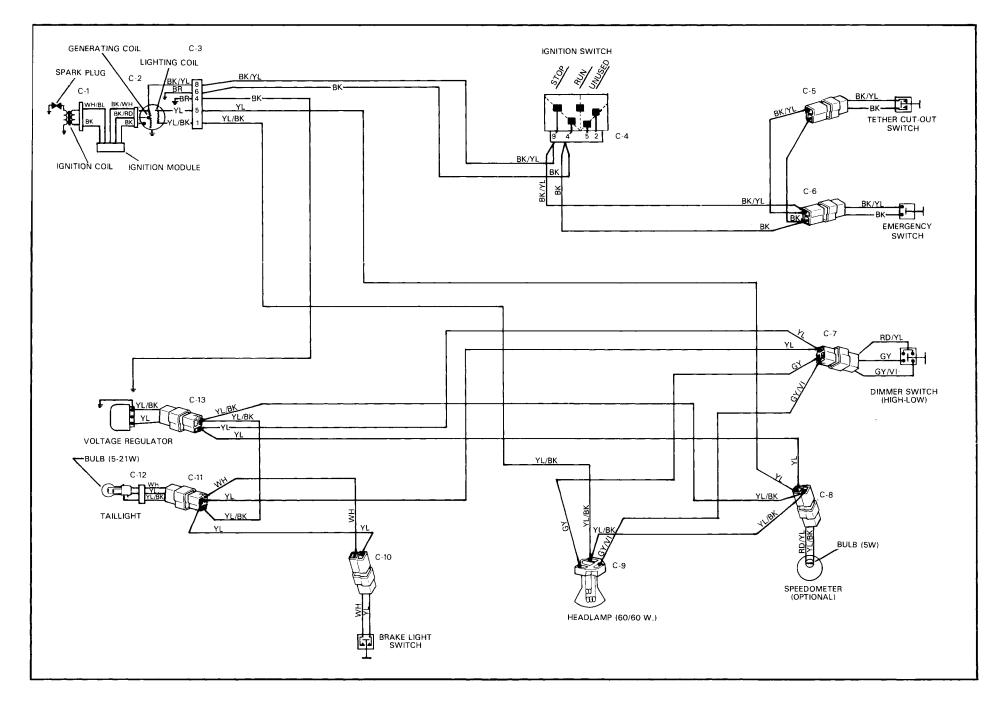
C-9: In hood, near instrument location

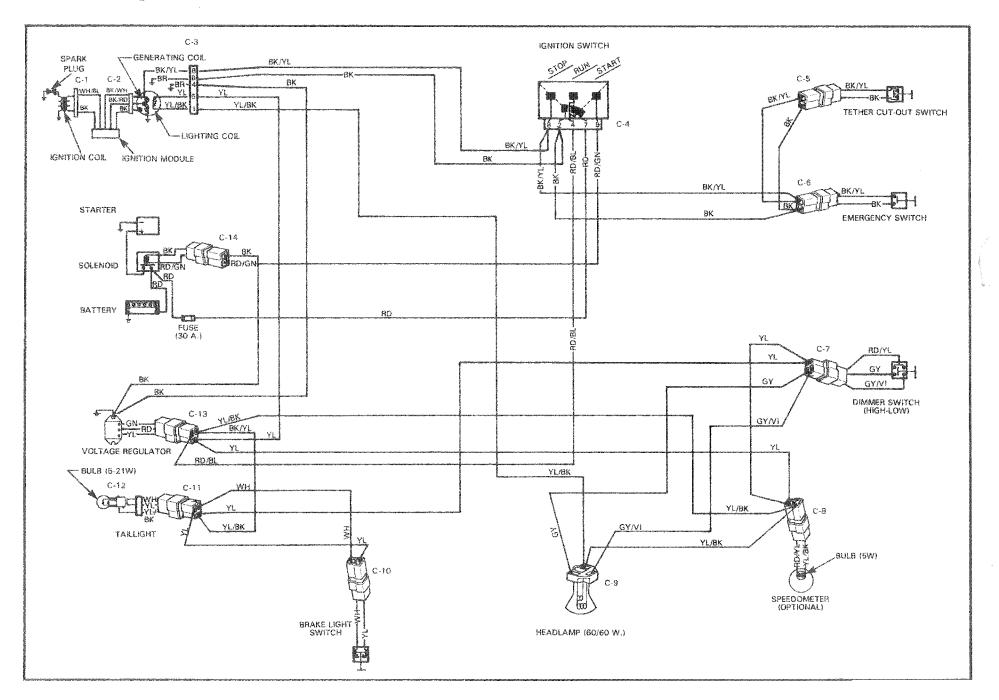
C-10: Near driven pulley

C-11: Between seat and fuel tank C-12: On taillight

C-13: Near regulator/rectifier

C-14: Near solenoid





48

# CHANGE OF ADDRESS OR OWNERSHIP \_\_\_\_

Any change in address or ownership should be brought to the attention of the manufacturer by completing and sending out the card below.

NOTICE TO ALL NEW OWNERS: Make sure to receive the warranty registration card from the previous owner, when the ownership is transferred. Also enclose a photocopy of this registration card when informing of a change of ownership.

3							
CHANGE OF A	DDRESS						
VEHICLE IDENTIFICA	ATION NUMBER						
OLD ADDRESS:			NAME				
	NO STREET						APT.
	CITY	STATE/PI	ROVINCE			ZIP/POSTA	
NEW ADDRESS:							
			NAME				
	NO		STREET				APT.
	CITY	STATE/PF	ROVINCE			ZIP/POSTA	L CODE
CHANGE OF O	WNERSHIP						
VEHICLE IDENTIFICA	TION NUMBER						
The ownership of t	this vehicle is trans	sferred					
FROM:					_		
	NAME						
	NO		STREET				APT.
	CITY	STATE/PF	ROVINCE			ZIP/POSTA	L CODE
TO:		1.69	NAME				
	NO		STREET			- ·	APT.
1	CITY	STATE/PF	ROVINCE			ZIP/POSTA	L CODE

STAMP

### **BOMBARDIER INC.**

ATT.: WARRANTY DEPARTMENT VALCOURT (QUEBEC)
CANADA JOE 2L0

STAMP

### **BOMBARDIER INC.**

ATT.: WARRANTY DEPARTMENT VALCOURT (QUEBEC)
CANADA JOE 2L0