

Operator's manual

**elan**®

**Alpine**®



*1986*

414 6720 00

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, J0E 2L0



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ALPINE®	MIRAGE*	SONIC*
BLIZZARD®	MOTO-SKI®	SPIRIT*
BOMBARDIER®	NORDIK*	SUPER SONIC*
CARRY-BOOSE*	NUVIK*	T'NT
CITATION*	OLYMPIQUE*	TUNDRA*
ELAN®	ROTAX*	
ELITE®	RV*	
EVEREST	SAFARI*	
FORMULA*	SKANDIC*	
FUTURA®	SKI-DOO	
GRAND PRIX SPECIAL*		ULTRA SONIC*


# FOREWORD


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The operator manual and the Snowmobile Safety Handbook have been prepared to acquaint the owner / operator 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 personal injury.

 **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, illustrations 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.

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.

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 **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.

 **CAUTION:** This vehicle is built with parts dimensioned in the metric system. All fasteners are metric and must not be replaced by customary fasteners. Mismatched or incorrect fasteners could cause damage to the vehicle or possible personal injury.

# SAFETY MEASURES

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## Observe the following precautions:

- Throttle mechanism should be checked for free movement before starting engine.
- The snowmobile engine can be stopped by activating the emergency cut-out or tether switches or turning off the key.
- Clean and check operation of the headlight, tail light and brake light.
- 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 operator
- 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.
- 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.
- These vehicles are designed for the driver only. No provisions have been made for a passenger.
- Should removal of a nylon lock nut be required when undergoing repairs/disassembly always replace by new ones. Tighten as specified in the applicable Shop Manual.

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

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**THIS MANUAL SHOULD REMAIN WITH THE VEHICLE AT THE TIME OF RESALE.**

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# THE 1986 SNOWMOBILE LIMITED WARRANTY

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## 1 - PERIOD

BOMBARDIER® INC. as manufacturer, warrants FROM THE DATE OF FIRST CONSUMER SALES, every 1986 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 received by the customer from the selling dealer at time of purchase.

## 4 - WARRANTY TRANSFER

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

## 5 - EXCLUSIONS - ARE NOT WARRANTED

- Normal wear on all items such as, but not limited to:
  - drive belts
  - slider shoes
  - spark plugs
  - bulbs
  - runners on skis
- 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 Manual. The labour, parts and lubricants costs of all maintenance services, including tune-ups and adjustments will be charged to the owner.
- Wet cells battery.
- 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.

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- 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 damages.

## **6 - BATTERY WARRANTY:**

- 12 consecutive months. (Pro-rated.)

100% warranty coverage will start on the date the snowmobile was purchased and run to the following April 30th. The remainder of the 12 months 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 of 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 resolve the problem at the dealership with the Service Manager or Owner.
2. If this fails, contact your area distributor listed in the Operator 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 2L0

February 1985  
Bombardier Inc.  
Valcourt, Quebec, Canada, JOE 2L0

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## OFTEN ASKED QUESTIONS

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Q: Why must my snowmobile be registered? 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, the customer must 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 snowmobile?

*A: In this Operator Manual provided with the vehicle at the time of first sale.*

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.*



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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 snowmobile 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

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## CANADIAN DISTRIBUTORS

Quebec Branch  
1350 Nobel Boulevard  
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**

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

CHARLES R. BELL LIMITED  
**Newfoundland, Labrador**  
Offices  
- Riverside Drive  
P.O. Box 1050  
Corner Brook, Newfoundland, A2H 6J3  
(709) 634-3533  
- 81 Kenmount Road  
P.O. Box 8127  
St-John's, Newfoundland, A1B 3N1  
(709) 722-6700

HUDSON'S BAY CO. LTD.  
165 Hymus Blvd  
Pointe-Claire, Quebec, H9R 1G2  
(514) 697-8500  
**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

- 4505 West Superior Street  
P.O. Box 6106  
Duluth, Minnesota 55806  
(218) 628-2881

- P.O. Box 1569  
Idaho Falls, Idaho, 83401  
(208) 529-9510

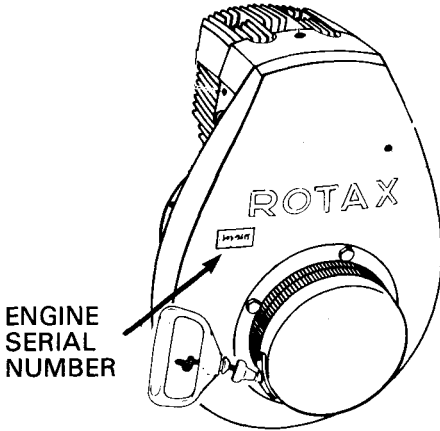
NATIONAL SALES OFFICE  
- O'Hare Lake Plaza  
2350 Devon Avenue  
Suite 150  
Des Plaines, Illinois 60018  
(312) 298-9540

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

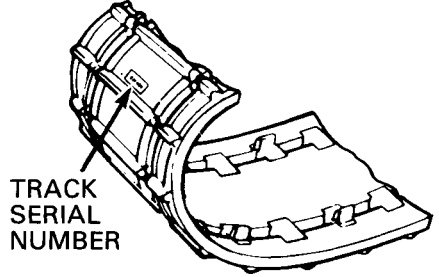
# HOW TO IDENTIFY YOUR SNOWMOBILE

The main components of your snowmobile (engine, track(s) 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.

## ELAN



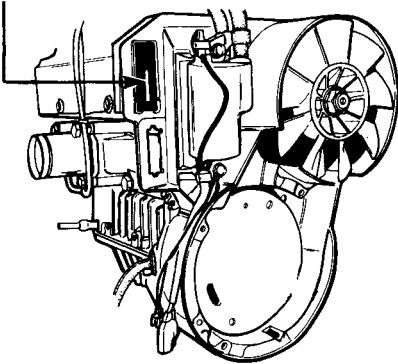
A002002006



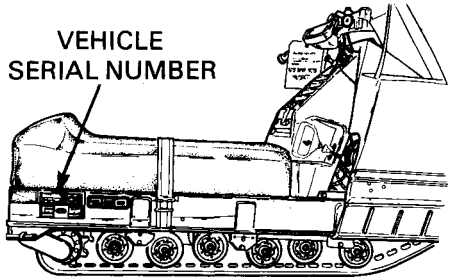
A002005010

## ALPINE

ENGINE SERIAL NUMBER



A017002010

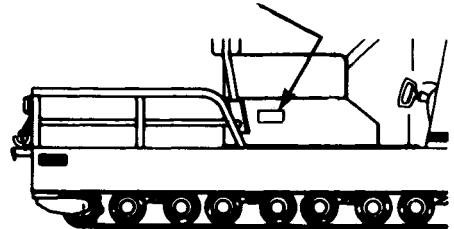


A002005011

VEHICLE SERIAL NUMBER SIGNIFICATION:

0000 00000  
 |            |  
 Model no.    Vehicle no.

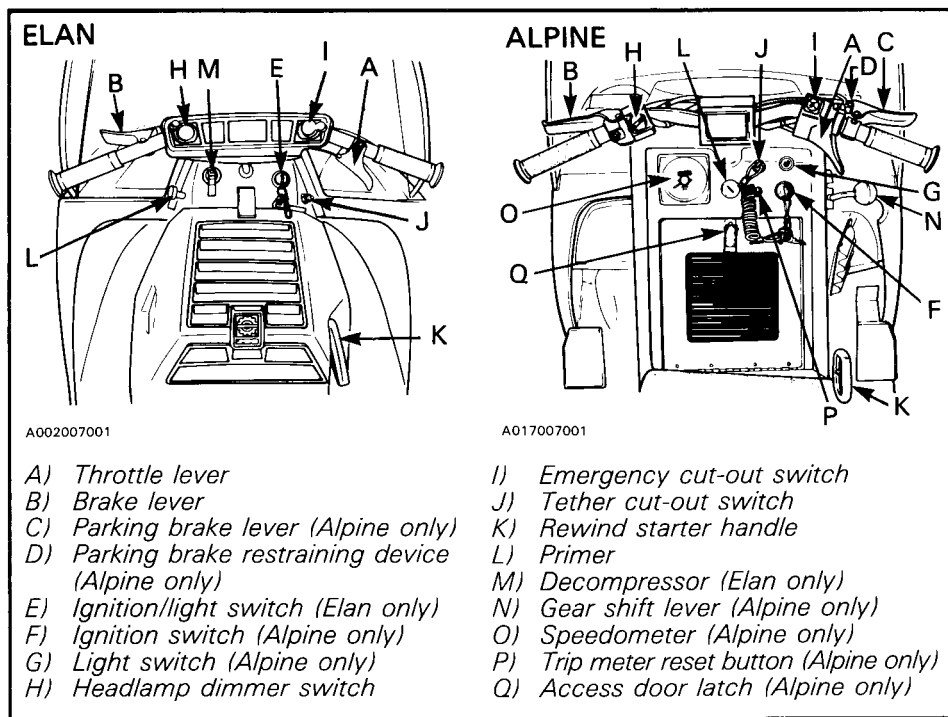
VEHICLE SERIAL NUMBER



A017005005

**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 a snowmobile is stolen.

# CONTROLS / INSTRUMENTS



## 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

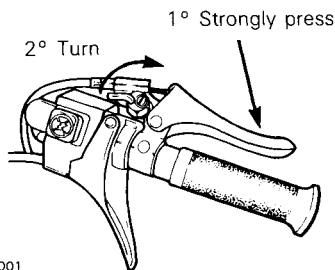
Located on the left side of handlebar. When compressed, the brake is applied. When released, it automatically returns to its original position. Braking effect is proportionate to the pressure applied on the lever and to the type of terrain and it's snow coverage.

◆ **WARNING:** On Alpine model, always apply the brake and come to a complete stop then while holding brake on, change gear. This is particularly important while on a slope.

## C) Parking brake lever (Alpine only)

Located on the right side of handlebar. Use to park the vehicle.

To lock:



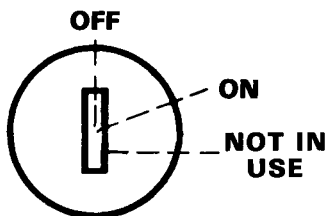
A008006001

### D) Parking brake restraining device (Alpine only)

Device used to maintain the parking brake locked. To lock; strongly press the lever then turn the device clockwise to maintain the lever in place. To unlock; strongly press the lever then turn the device counter-clockwise.

▼ **CAUTION:** Always unlock the restraining device prior to activating the throttle lever and moving the vehicle.

### E) Ignition/light switch (Elan only)



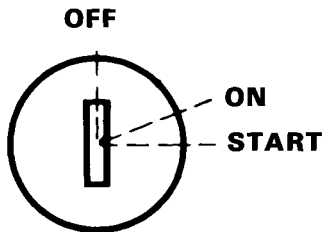
A002007002

Key operated, 3 position switch. To start the engine, first turn the key clockwise to ON position. To stop the engine, turn the key counter-clockwise to OFF position.

The 3rd position is not in use.

The lights are automatically ON whenever the engine is running.

### F) Ignition switch (Alpine only)



A002007002

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

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

### G) Light switch (Alpine only)

A push pull switch type, to illuminate headlamp and taillight, pull switch knob. (Ignition switch must be turned to ON position.)

### H) Headlamp dimmer switch

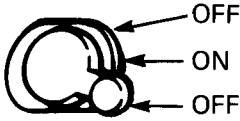
The dimmer switch, located on left side of handlebar, allows correct selection of headlamp beam. To obtain high or low beam simply flick switch.

### I) Emergency cut-out switch

**Elan:**

A 3 position switch located on the right side of the handlebar. To stop the engine in an emergency, flick the lever to either upper or lower "OFF" position and simultaneously apply the brake.

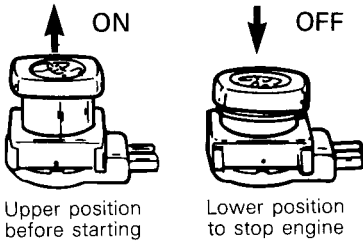
To start engine, lever must be in middle "ON" position.



A002006001

**Alpine:**

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.



A017006004

**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 familiarized 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 the engine.

**J) Tether cut-out switch**

A pull switch located below the handlebar.

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

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

**K) Rewind starter handle**

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

**L) 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.

**M) Decompressor (Elan only)**

Lift lever to operate. Pull down when engine has started.

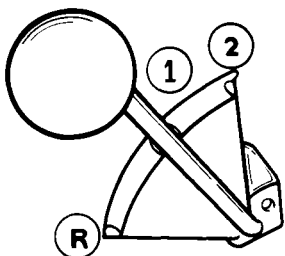
**CAUTION:** The decompressor provides easier starting by reducing engine compression. However, leaving the decompressor engaged while running will damage your engine. Always disengage after the engine has started.

## N) Gear shift lever (Alpine only)

3 positions: 2 Forward, 1 reverse.

▼ **CAUTION:** The vehicle must be completely stopped before shifting.

◆ **WARNING:** Always apply brake when changing gears.



A002003019

## O) Speedometer (Alpine only)

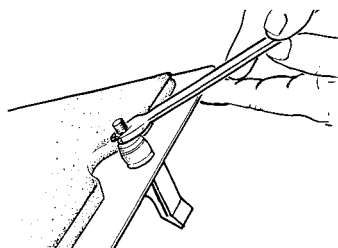
The speedometer is linked directly to the drive axle. Direct-reading dial indicates the speed of the vehicle in kilometers per hour. Odometer records the total number of kilometers travelled. A trip meter is also combined with speedometer.

## P) Trip meter reset button (Alpine only)

To reset trip meter, turn black knob (located under tether cut-out switch) until all numbers read zero.

## Q) Access door latch (Alpine only)

To gain access to the carburetor or spark plugs, lift pressure lock tab and pull open access door.



A017007002

To adjust locking device turn nut in required direction.

## Fuel gauge/tank cap

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

### Elan:

The tank is translucent and fuel level can be checked by opening hood and glancing at tank.

### Alpine:

Unscrew fuel tank cap and withdraw dipstick to check fuel level.

## Hood opening

◆ **WARNING:** It is dangerous to run engine with hood opened, removed or unfastened.

### Elan:

Unlock latches on both sides where the hood meets the frame.

○ **NOTE:** Always lift the hood gently up until stopped by the restraining wire.

### Alpine:


Unlatch cab by turning both handles toward front of vehicle, remove fuel tank cap, gently lift hood then disconnect junction block. Remove hood from vehicle.

## Tool box (Elan only)

Located under the hood. To gain access, tilt the hood. Ideal location for spare plug, rope, flash light, first aid kit, etc.

## Seat compartment (Alpine only)

Remove backrest and tilt seat. Ideal location for spare plugs, belt, rope, etc.

 **NOTE:** Emergency materials should be wrapped in foam or similar material. This will prevent possible damage to breakable items when travelling over rough or bumpy terrain.

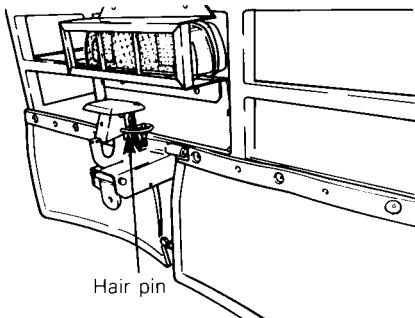
## Fuse holders (Alpine only)


Starting system is protected with a 30 amperes rated fuse. Fuse holder is located near the starter. If engine does not start, check fuse condition and if necessary replace.

Instruments are protected with a 15 amperes rated fuse. Fuse holder is located inside the console near the ignition switch. If instruments stop operating, check fuse condition and if necessary replace.

## Hitch (Alpine only)

Fixed on the rear bumper, the hitch has two attachment points. A hook type and a plate type. A hair pin is supplied to lock the hook type attachment.



 **WARNING:** When towing a sled or trailer, always ensure to lock the hook or plate type attachment with a hair pin.

Trailers or sleds towed behind a snowmobile should always be loaded with the lowest possible center of gravity. Use a rigid tow bar when pulling a tow sled behind your snowmobile. When you are pulling passengers in a trailer or tow sled, use moderate speed and avoid rough terrain for their safety. Also, have all passengers get out of a towed vehicle and walk across all roads.




# BREAK-IN PERIOD


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## Engine

With Bombardier-Rotax snowmobile engines, a break-in period is required before running the vehicle at full throttle. Engine manufacturer recommendation is 10 to 15 operating hours. During this period, a richer mixture is needed (i.e. 40 parts of gas for 1 part of BLIZZARD oil. Maximum throttle should not exceed  $\frac{3}{4}$ , however, brief full acceleration and speed variations contribute to a good break-in. Continued wide open throttle accelerations, prolonged cruising speeds, and lugging are detrimental during the break-in period.

 **NOTE:** For the break-in period only, 450 ml (16 oz) of Bombardier Snowmobile Injection oil should be added to the first full fuel tank filling.

This will assure additional protection during the initial engine break-in.

 **CAUTION:** Remove and clean spark plugs after engine break-in.

## Belt

A new drive belt requires a break-in period of 25 km (15 miles).

## 10-Hour Inspection

As with any precision piece of mechanical equipment, we suggest that after the first 10 hours of operation or 30 days after the purchase, whichever comes first, that your vehicle be checked by your dealer. This inspection will give you the opportunity to discuss the unanswered questions you may have encountered during the first hours of operation. Remember that it is easier to remedy at this time than to allow the snowmobile to operate until a possible failure occurs.

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The 10 hour inspection is at the expense of the vehicle owner.

---

<b>10-HOUR INSPECTION CHECK LIST</b>	✓
Engine timing	
Fan belt tension (Alpine only)	
Spark plug(s) condition	
Carburetor adjustment	
Engine head nuts	
Engine mount nuts	
Muffler attachment	
Gearbox/chaincase oil level	
Chain tension (Alpine only)	
Battery electrolyte level (Alpine only)	
Brake operation and pad or lining condition	
Ski alignment (runner(s) condition)	
Steering arm retorque to: 42 N•m (31 lbf•ft) - Alpine 31 N•m (23 lbf•ft) - Elan	
Handlebar bolt retorque to 42 N•m (31 lbf•ft) (Alpine only)	
Pulley alignment and drive belt condition	
Track condition, tension and alignment	
Lubricate (steering, suspension, driven pulley, etc.)	
Electrical wiring (loose connections, stripped wires, damaged insulation), tightened all loose bolts, nuts and linkage	
Operation of lighting system (HI / LO beam, brake light, etc.), test operation of emergency cut-out switch and tether switch	

**We recommend that you have your dealer sign this inspection list.**

\_\_\_\_\_

Date of 10 hour inspection

\_\_\_\_\_

Dealer signature

# FUEL

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Oil must be added to the gasoline in pre-measured amounts then both oil and gasoline should be thoroughly mixed together before fueling the tank.

## Recommended gasoline

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

▼ **CAUTION:** Never experiment with different fuel or fuel ratios. Never use naphtha, methanol or similar products.

◆ **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 "BLIZZARD OIL" (P/N 496 0135 00-500 ml) available from your dealer. This type of oil will flow at temperatures as low as minus 40°C (-40°F).

It is a blend of specially selected base oils and additives which provides outstanding lubrication, engine cleanliness and minimum spark plug fouling.

If "BLIZZARD OIL" is unavailable, substitute with "Bombardier injection oil" (P/N 496 0133 00-1 liter).

▼ **CAUTION:** Never use outboard or straight mineral oils.

## Fuel mixture ratio

The importance of using the correct fuel mixture cannot be overstressed. An incorrect fuel ratio results in serious engine damage. Recommended fuel ratio is 50:1 (40:1 during break-in period).

## SI UNITS

500 ml oil to 25 liters = 50:1

## IMPERIAL UNITS

16 oz oil to 5 imp. gal = 50:1

or

500 ml oil to 5 1/2 imp. gal = 50:1

## U.S. UNITS

13 oz oil to 5 U.S. gal = 50:1

○ **NOTE:** To facilitate fuel mixing, oil should be kept at room temperature.

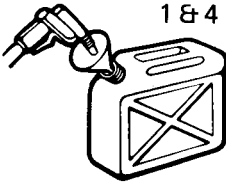
## Fuel mixing procedure

To mix the gasoline and oil always use a separate clean container. Never mix directly in your snowmobile tank. For best results, acquire two containers, either plastic or metal. Draw from one until empty then use the second one.

◆ **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. If gasoline fumes are noticed while driving, the cause should be determined and corrected without delay. Never add fuel while the engine is running. Avoid skin contact with fuel at below freezing temperatures.

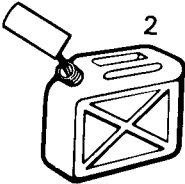
# FUEL/OIL MIXING CHARTS (50 to 1 ratio)

1. Pour approximately 4 liters (one gallon) of gasoline into a clean container.



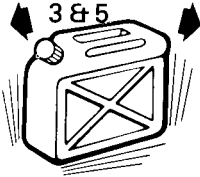
A000000003

2. Add the full amount of oil required.



A000000004

3. Replace the container cap and shake the container thoroughly.



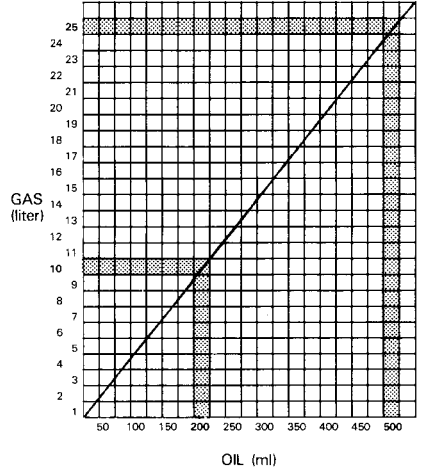
A000000005

4. Add the remainder of the gasoline.
5. Once again thoroughly agitate the container. Then using a funnel with a fine mesh screen to prevent the entry of foreign particles, pour the mixture into the snowmobile tank.

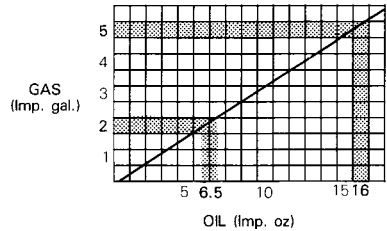
**WARNING:** To prevent fuel spillage in the engine compartment, a funnel must always be used when filling the gas tank.

**NOTE:** When using pre-mixed fuel, always shake the container thoroughly as the oil has a tendency to settle.

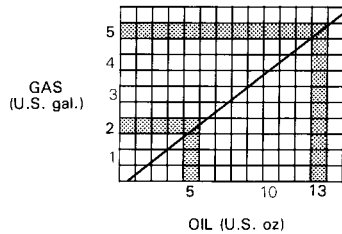
## METRIC (SI)



## IMPERIAL



## UNITED-STATE



A000000006

# PRE-START CHECK

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## Check points

- **ACTIVATE THE THROTTLE CONTROL LEVER 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 that the ski and tracks are not frozen to the ground or snow surface and that the 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.

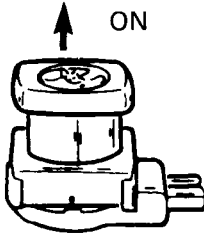
◆ **WARNING:** Only start your snowmobile once all components are checked and functioning properly.

## STARTING PROCEDURE

---

### Test throttle control lever.

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



Upper position  
before starting  
engine

A017006004

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

Activate primer (2 to 3 times).

○ **NOTE:** Priming is not necessary when the engine is warm.

Lift the decompressor lever. (Elan model only).

### 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 re-wind starter handle.

◆ **WARNING:** Do not apply throttle while starting.

Pull the decompressor lever down once engine has started. (Elan model only).

### Electric starting (Alpine only)

Insert key in ignition switch.

▼ **CAUTION:** Never operate your snowmobile with the battery removed or disconnected.

Turn ignition key clockwise until starter engages. 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.

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

**WARNING:** Do not apply throttle while starting.

**NOTE:** If for some reason, the vehicle cannot be started electrically, place ignition key to ON position and start engine manually.

## Before riding

Check operation of the emergency cut-out switch, and tether switch. Restart engine.

**WARNING:** If engine does not shut-off when flicking the emergency cut-out switch and/or by pulling the tether cut-out cap, stop the engine by turning OFF the ignition key. Do not operate the vehicle, 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 an emergency starter rope.

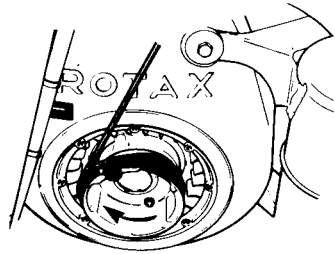
**WARNING:** Do not start the vehicle by the drive pulley unless it is a true emergency situation, have the vehicle repaired as soon as possible.

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

### Elan:

Remove the rewind starter assembly from the engine and transfer the rope handle to your emergency rope.

Wind the rope around the starting pulley start engine as per usual manual starting.



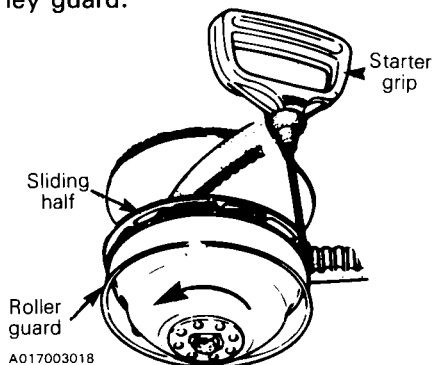
A002002007

**WARNING:** After starting the vehicle in an emergency situation by the starting pulley do not reinstall the rewind starter assembly.

### Alpine:

Attach emergency rope to starter grip. Remove the belt guard and pulley guard from the vehicle and wind the emergency rope tight around the drive pulley between the sliding half and the roller guard. Start the engine as per usual manual starting.

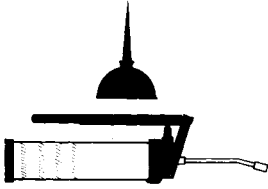
**WARNING:** When starting the vehicle in an emergency situation by the drive pulley, do not make a knot at the end of the emergency rope and do not reinstall the belt guard and pulley guard.



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# LUBRICATION

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## 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 as well as retains safe and dependable operation. 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.

◆ **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.

◆ **WARNING:** Do not lubricate throttle and/or brake cable and housings.

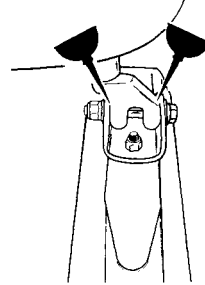
## Steering mechanism

### Elan:

Lubricate the ski legs at the grease fittings until new grease appears at the joints. Coat spring slider cushion with grease. Oil the spring coupler bolts, the four (4) ball joints and the two (2) pivots on the main tube of the handlebar.



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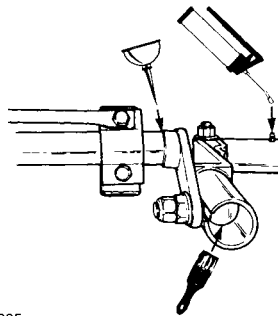
A002006004

### Alpine:

Lubricate the ski leg at grease fitting until new grease appears at the joint.

Using a small brush, dipped in low temp grease, coat the steering arm ball joint and spring slider cushion.

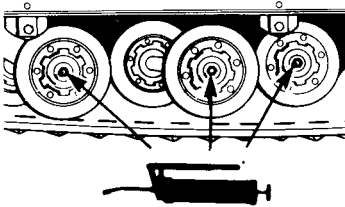
Using light machine oil, lubricate the spring located on top of steering column housing. Allow oil to run in. Oil the mobile contact point at bottom end of steering arm. Lubricate spring coupler bolt with oil.



A017006005

## Bogie wheels

Using low-temperature grease, lubricate the suspension bogie wheels through the grease fittings until new grease appears at the inner side joints.



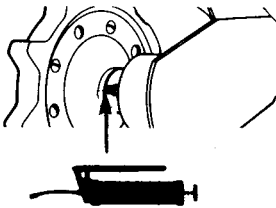
A002005012

### Alpine:

To grease the inner side bogie wheels, tilt vehicle on its side and apply pressure on track to expose grease fittings.

### Rear axle

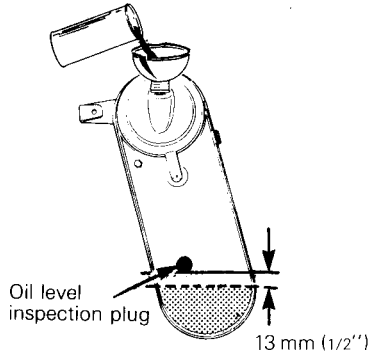
Lubricate the rear axles with low-temperature grease. Pump grease through the rear axle fittings using a low-pressure grease gun.



A017005006

### Chaincase oil level (Elan only)

Remove the tool box then check the oil level by removing the oil level inspection plug. Oil should be 13 mm (1/2") below bottom lip of the hole. Replenish as necessary by removing the filler cap using a spark plug socket. Use Bombardier chaincase oil (P/N 413 8019 00 - 200 ml).

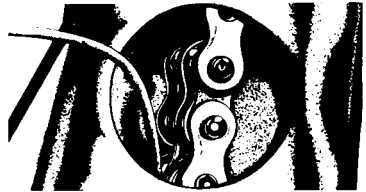


A002003020

### Gearbox oil level (Alpine only)

The gearbox oil capacity is 455 ml (16 oz). To check level:

Remove rubber inspection cover located on bottom right side of gearbox. Using a rigid piece of wire as dipstick, check oil level. Oil level must reach 82 mm (3 1/4") on dipstick.



A017003019

To fill, remove filler cap from top of gearbox. Refill as required using Bombardier chaincase oil (P/N 413 8019 00 200 ml).



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## **Drive pulley (Elan only)**

Designed with Karlon bushings. No lubrication required.

## **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.

# MAINTENANCE

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

**WARNING:** Only perform such procedures as detailed in this manual. It is recommended that dealer assistance be periodically obtained on other components 1 systems not covered in this manual. Unless otherwise specified, engine should be turned OFF for all lubrication and maintenance procedures.

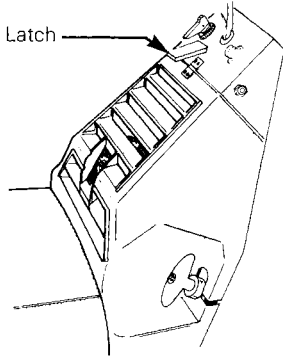
<b>SERVICE AND MAINTENANCE CHART</b>	Weekly or every 240 km (150 mi)	Monthly or every 800 km (500 mi)	Once a year or every 3200 km (2000 mi)	Refer to page
Drive belt condition	•			27
Brake condition	•			27
Brake adjustment		•		28
Spark plug(s)		•		29
Battery (Alpine only)	•			30
Suspension condition		•		30
Suspension adjustment (Alpine only)	(as required)			30
Track(s) condition		•		31
Track tension and alignment		•		31
Drive pulley		•		32
Steering mechanism		•		32
Steering adjustment		•		32
Muffler attachment		•		33
Engine head nuts			•	34
Engine mount nuts			•	34
Carburetor adjustment			•	35
Fan belt (Alpine only)			•	35
Drive chain tension (Alpine only)			•	35
Headlamp beam aiming			•	35
General inspection		•		36

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

## Console removal (Elan only)

For any procedure that may require removal of the console, proceed as follows:

1. Unlock the latch where the console and dashpanel meet.



A002007003

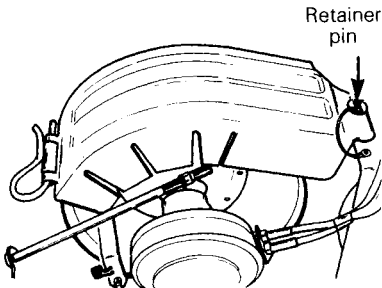
2. Push the console downward then tilt away from the engine. To reinstall, reverse the procedure.

## Belt guard / pulley guard removal

**WARNING:** Engine should be running only when belt guard and/or pulley guard are secured in place.

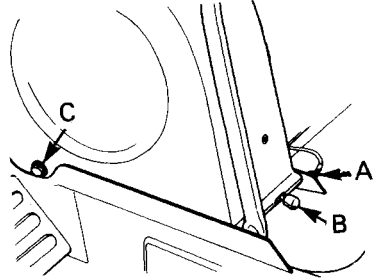
### Elan:

1. Tilt the hood and remove the console.
2. Remove the driven pulley guard (front) by unlocking it from its attaching points.



A002003021

3. To remove the drive pulley guard, pull out the retaining clip (A) and pull on the spring (B) to disengage the pin from the bracket.

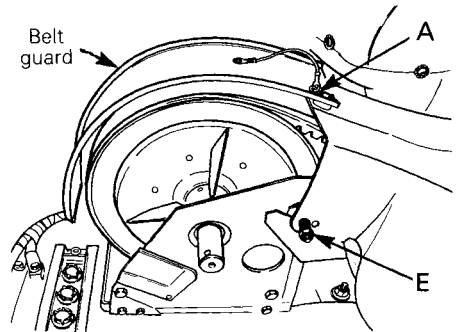


A002003022

4. Push the pulley guard forward to disengage the front attachment (C) from the frame. Lift the guard from the vehicle.

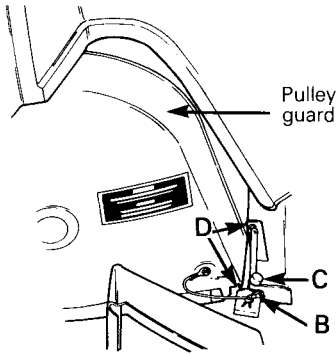
### Alpine:

1. Remove hood. Pull out retaining clip (A) and tilt belt guard towards front of vehicle. If necessary to remove, lift out.



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2. Pull out retaining clip (B).
3. Push button (C) towards engine.
4. Lift and pull guard to disengage completely from rear bracket (D).



A017003021

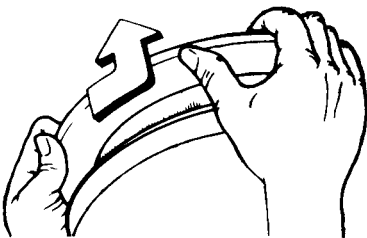
5. Move pulley guard towards front of vehicle to disengage from front attaching device (E).

## Drive belt removal and installation

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

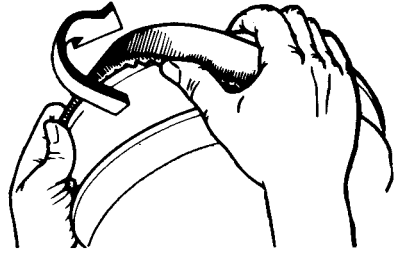
### Elan:

1. Tilt the hood and remove the pulley guard.
2. Open the driven pulley by twisting and pushing the sliding half. Hold in fully open position.



A002003023

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

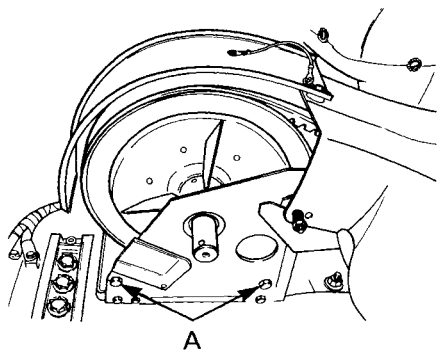


A002003024

4. Slip the belt out from the drive pulley and remove completely from the vehicle. To install the drive belt, reverse the procedure.

### Alpine:

1. Remove hood, belt guard and pulley guard.
2. Remove the two bolts (A) holding bearing support to the frame.
3. Pivot the bearing support assembly half a turn.
4. Open the driven pulley by twisting and pushing the sliding half.
5. Hold in open position.
6. Slip the belt over the top edge of the fixed half.
7. Slip the belt out from the drive pulley.
8. Remove from vehicle by passing it under the driven pulley and bearing support.



A017003020

To install drive belt reverse the procedure.

### 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 or rusty sheave, oil on belt or distorted spare belt. Contact your dealer.

Check the drive belt width.

Replace the drive belt if width is less than:

Elan - 27 mm (1 1/16 in)

Alpine - 32 mm (1 1/4 in).

### New drive belt

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

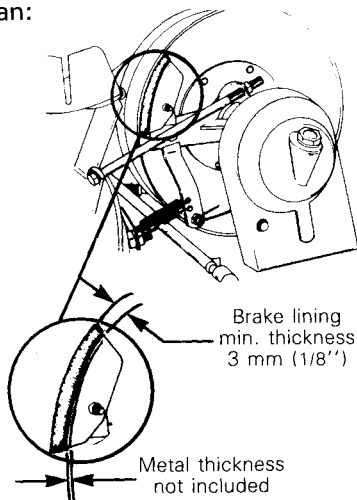
○ **NOTE:** Always store a spare belt in a manner to allow its natural shape to be maintained.

### 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.

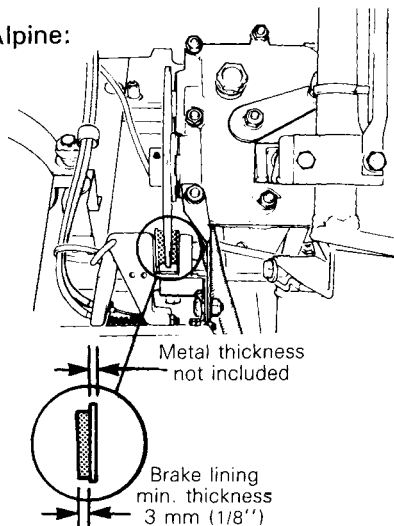
◆ **WARNING:** Brake pads or lining less than 3 mm (1/8") thick must be replaced. Replacement must be performed by an authorized dealer.

Elan:



A002003025

Alpine:



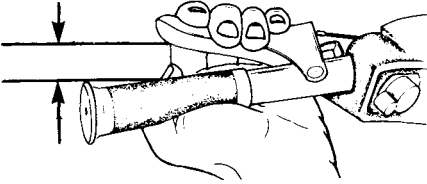
A017003022

## Brake adjustment

### Elan:

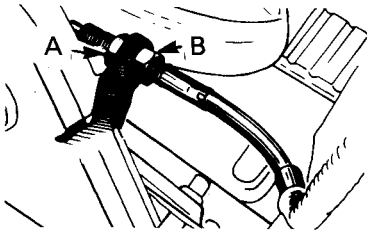
Brake should apply fully while brake control lever is still 2.5 cm (1 inch) minimum from the handlebar grip.

2.5 cm (1 in) MINIMUM



A002006005

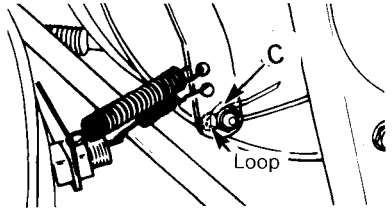
If a minor adjustment is indicated, slack off the cable housing nut (A) and tighten the nut (B) to increase the lever clearance.



A002003026

Once minor adjustment is completed, firmly tighten the nuts (A and B) against the bracket. If correct brake control lever clearance is unobtainable, proceed with major adjustment as follows:

Slacken off the nut (C) retaining the brake cable to the lower brake lever. Adjust the cable to required length by lengthening or shortening the brake cable. Retighten the nut. Ensure that minor adjustment nuts are located approximately half way on the adjuster threads.

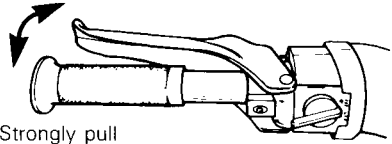


A002003025

**WARNING:** Brake cable must make a loop around the bolt head. Strongly pull the brake handle to check cable tightness. Always check the brake light to see if it functions after performing brake adjustment.

### Alpine:

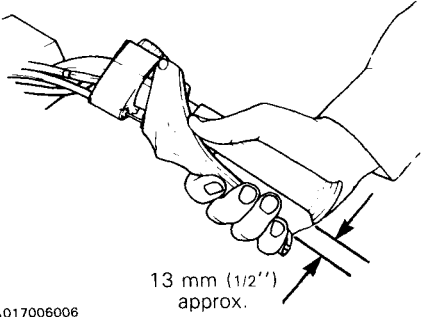
The brake mechanism is a self-adjusting type. If a quicker brake response is desired, strongly pull the brake lever several times, this will actuate the self adjusting mechanism.



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**NOTE:** The next inspection must be done on each brake lever.

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



A017006006

## Brake light switch adjustment

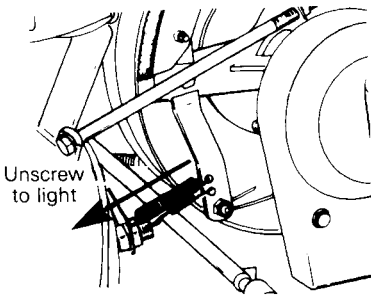
### Elan

To check operation:

Pull the brake lever and check that a light resistance is felt while rotating the driven pulley. This is the position where the switch should have lit the brake light.

To adjust:

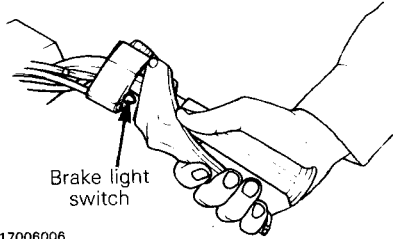
- Loosen the brake switch lock nuts.
- Holding brake lever at the lit position, unscrew the switch to put on the light or screw it in to put it out.



A002003025

### Alpine

The brake light switch is not adjustable on this vehicle and is part of the brake handle assembly.



A017006006

## Spark plug(s)

Disconnect spark plug wire(s) and remove plug(s). Check condition of plug(s).

○ **NOTE:** On Alpine model, open access door and remove air vents (located on top of console). Unscrew spark plugs using the socket and extension supplied in tool kit.

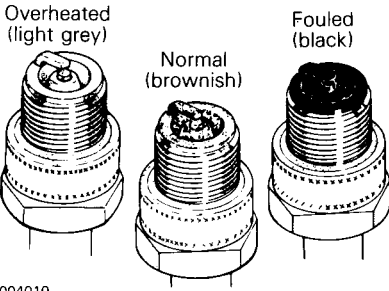
Press here  
and pull upwards  
to remove vents



A002007004

- A brownish tip reflects ideal conditions. (Carburetor adjustment, 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.



A000004010

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

Check spark plug gap using a wire feeler gauge. Gap must be:

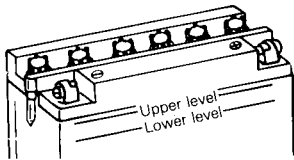
Elan - 0.5 mm (.020")

Alpine - 0.4 mm (.016")

Reinstall plug(s) and connect wire(s).

### Battery (Alpine only)

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



A017004002

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 overflow tube is not blocked or kinked.

◆ **WARNING:** Overflow tube must be free and open. A kinked or bent tube will restrict ventilation and create 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.

### Suspension condition

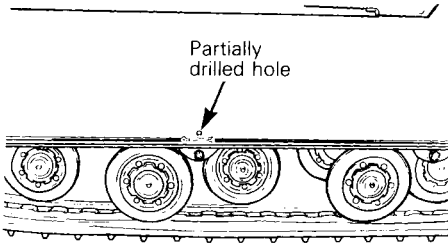
Visually inspect suspension springs. Replace any weak or broken spring.

Check for wear or looseness. Correct as required.

### Suspension adjustment (Alpine only)

By raising the outer attachment of the bogie wheel sets, vehicle maneuverability in deep snow will increase. Note that some partially drilled holes are located approx. 35 mm ( 1 3/8") above the original cross shaft holes of the frame. To reposition bogie wheel sets, drill holes fully through using a 8 mm (5/16") dia. drill. Remove capscrews securing bogie wheel cross shafts to frame and reinstall in new position.





A017005007

## Track condition

Lift rear of vehicle and support it off the ground. (On Alpine model, place gear shift lever in forward position). With the engine **OFF**, rotate track manually and inspect condition. If worn or cut, or if track fibers are exposed, or if missing or defective inserts are noted, contact your authorized dealer.

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

## Track tension and alignment

### Tension

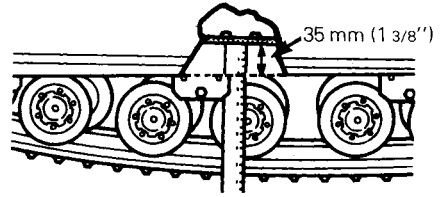
Lift the rear of vehicle and support it off the ground. Using a ruler, check track tension.

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

**NOTE:** If the track tension is too loose, the track will have a tendency to thump.

### Elan:

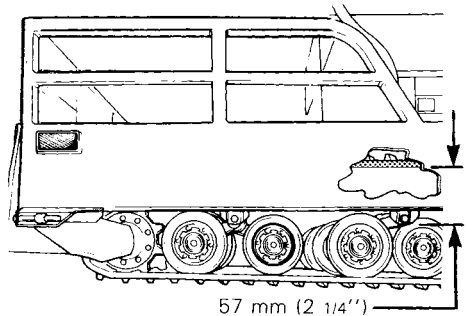
The distance between the top inside edge of the track and the bottom of the footboard at the middle set of bogie wheels should be 35 mm (1 3/8").



A002005013

### Alpine:

The deflection of each track should be 57 mm (2 1/4") between top inside edge of track and center of retaining bolt at the second bogie wheel set from rear.



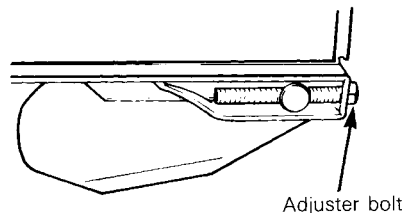
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### Alignment

To adjust track use the following procedure:

Loosen link plate spring lock nuts located on inner side of link plate springs.

Turn adjuster bolts clockwise to tighten track, counterclockwise to slacken.



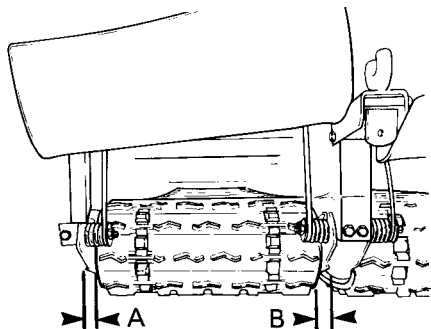
A002005014

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

◆ **WARNING:** Before checking track alignment, ensure that the track is free of particles which could be thrown out while track is rotating. Keep hands, tools, feet and clothing clear of track. Ensure nobody is standing near the vehicle.

Start engine and allow track to rotate slowly. Check if track is well centered and turns evenly on the rear sprockets. The distance between track edges and link plates should be equal.

Misalignment can cause excessive wear of track edges and sprocket teeth.



Distance "A" should equal distance "B" (both tracks)

A002005015

To correct:

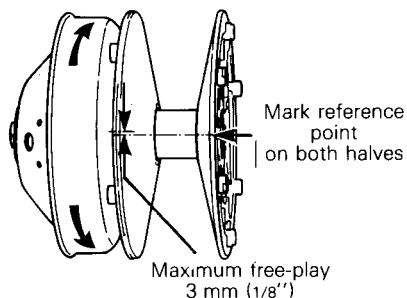
**Stop engine** and on appropriate side, turn adjuster bolt clockwise to withdraw track from link plate.

Tighten link plate spring lock nuts.

Restart engine and rotate track slowly and recheck alignment.

## Drive pulley (Alpine only)

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 your authorized dealer.



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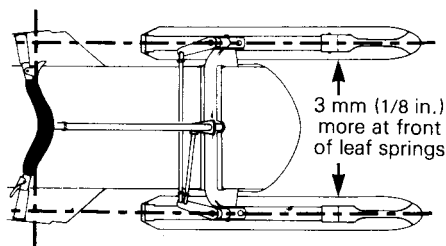
## Steering mechanism

Inspect steering mechanism for tightness of components (steering arm, ball joint, etc.). If necessary, replace or retighten. Check condition of ski and ski runner. Replace if more than half worn.

## Steering adjustment

### Elan:

Skis should have a toe out of 3 mm (1/8 in.). To check, measure distance between skis at front and rear of leaf springs.

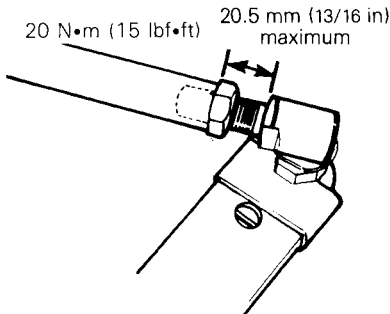


A002006007

If necessary to adjust:

Loosen the lock nuts of the longer tie rod. Turn the tie rod manually until the skis are properly aligned. Firmly re-tighten the lock nuts.

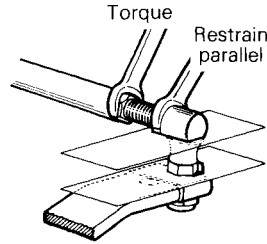
◆ **WARNING:** The maximum ball joint external threaded length not engaged in the tie rod end must not exceed 20.5 mm (13/16 in). Torque lock nut to 20 N•m (15 lbf•ft).



A002006008

Handlebar should also be horizontal when the skis are pointed toward the front. To adjust, loosen the lock nuts of the shorter tie rod. Turn the tie rod manually until the handlebar is horizontal. Retighten the lock nuts firmly. Check tightness of the steering arm locking bolts and the wear of the ball joints.

◆ **WARNING:** The cut off section of the ball joint must run parallel with the steering arm. When tightening lock nuts, restrain ball joint with appropriate size wrench. Ensure at least half of the ball joint threads are inserted into the tie rod.



A002006009

## Alpine:

Ski should be perpendicular to handlebar. To align:

Remove steering padding.

Remove bolt securing handlebar to steering column.

Remove handlebar to expose splined end of steering column.

Repositon handlebar on splines so that it is perpendicular with ski. Install and tighten bolt to 38-47 N•m (28-35 lbf•ft).

○ **NOTE:** If correct spline alignment is unobtainable at handlebar, move lower steering bracket (located on top of gearbox) to obtain proper location. Lower steering bracket holes are slotted.

## Muffler attachments

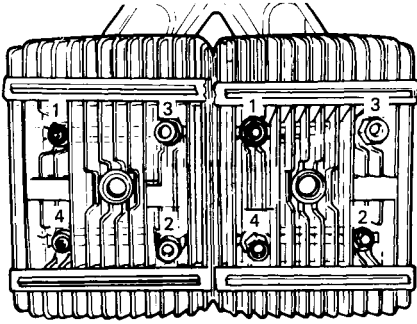
The engine/muffler system parts are vital toward efficient muffler function. Check all attachments. Replace springs and/or tighten if necessary.

On Alpine model, also ensure that the forced flow system is well aligned and tightened.

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

## Engine head nuts

With the engine cold, check that engine head nuts are tight and equally torqued to 21 N•m (15 lbf•ft). Follow the illustrated sequence.



A002002008

**IMPORTANT:** The engine head nut torque should be checked after the first 5 hours of operation.

## Engine mount nuts

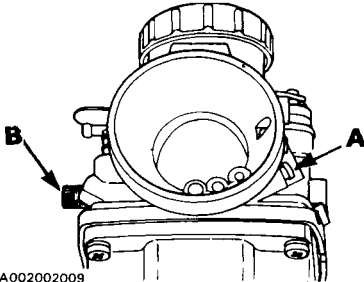
Check engine mount nuts for tightness. Retighten if necessary at 38 N•m (28 lbf•ft).

## 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 reseating resistance is felt) then back off screw: 1 1/2 turn.



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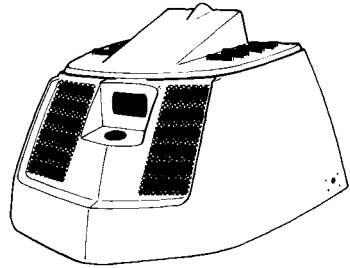
### B) Idle speed adjustment

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 the engine and allow it to warm then adjust the idle speed by turning the idle speed screw clockwise or counterclockwise.

Idle speed: - Elan: 1300-1500 R.P.M.  
- Alpine: 1800-2000 R.P.M.

▼ **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.

## Front hood louvers (Alpine only)



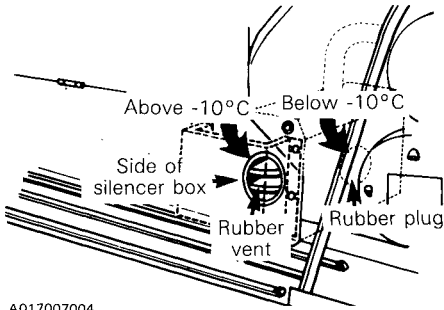
A017007003

When operating the vehicle in powder snow it is advisable to block the front hood louvers as per illustration using snow deflectors supplied with vehicle. Unblock the louvers as soon as snow condition becomes firmer or as soon as engine becomes too hot.

## Air silencer box (Alpine only)

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

When operating the vehicle in temperature exceeding  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ), the rubber plug must block the engine side orifice and the rubber vent must be positioned on the side of the silencer box to allow cold air circulation.



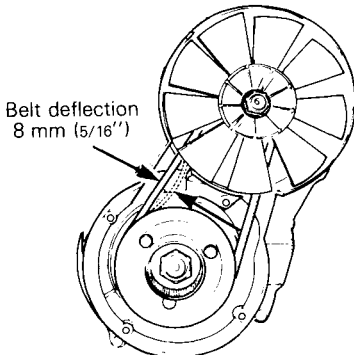
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In temperatures below  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ) and/or powder snow, the rubber plug must block the entry of fresh air on the side of the silencer box and the rubber vent must allow the warm air being emitted from the engine to be directed over the carburetor.

**CAUTION:** Observe temperature changes and locate plugs accordingly.

### Fan belt (Alpine only)

Inspect belt for cracks, uneven wear, etc. Check fan belt tension, 8 mm ( $5/16''$ ) free-play should exist when deflection is correct.



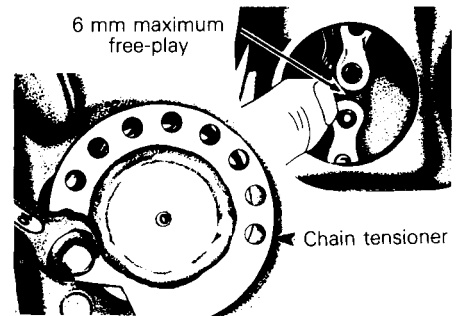
A017002011

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

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

### Drive chain tension (Alpine only)

Run vehicle forward so that true free-play can be taken. Check tension then turn driven pulley  $1/2$  turn towards and recheck. Starting from maximum reading, adjust chain tension to obtain from 3 mm to 6 mm ( $1/8''$  to  $1/4''$ ) free-play. Remove capscrew locking chain tensioner in place. (Tensioner is located at bottom left of gearbox.)



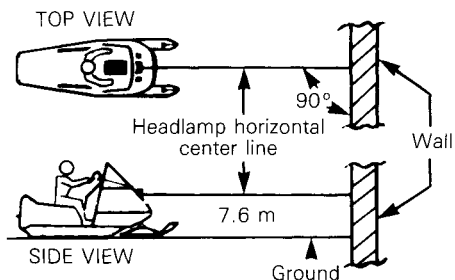
A017003027

Rotate the tensioner as required to obtain correct chain tension.

Replace capscrew to lock chain tensioner in place.

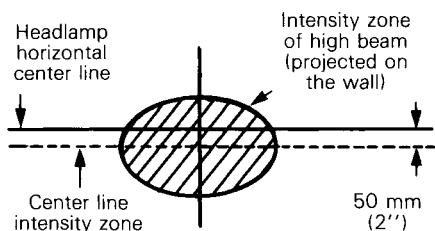
### Headlamp beam aiming

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 7.6 m ( $25'$ ) from a wall or screen.



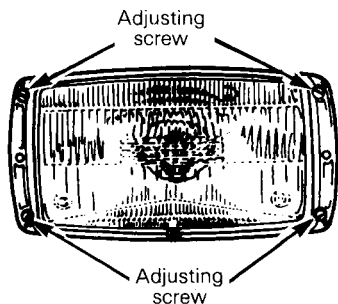
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With the suspension correctly adjusted, the rider seated on the vehicle and the high beam ON check that the center of high intensity zone of high beam is 50 mm (2'') below horizontal line of headlamp height.



A002004007

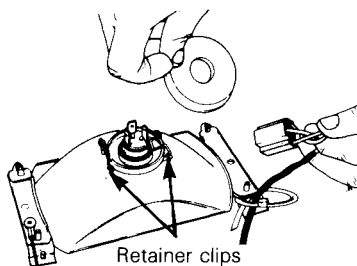
To adjust, turn upper or lower adjusting screws to obtain desired beam position.



A002004008

## Bulb replacement

If headlamp is burnt, open or remove hood. Unplug connector from headlamp. Remove rubber boot and unfasten bulb retainer clips. Detach bulb and replace.



A002004009

If taillight bulb is burnt, remove the red plastic lens and replace bulb.

**WARNING:** Always check light operation after bulb replacement.

## General inspection

Check 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 ski and ski runner for wear.

# STORAGE

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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 period 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 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 procedures.

## Track

Inspect track for wear, cuts, missing tracks inserts or broken rods.

Make any necessary replacement.

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

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

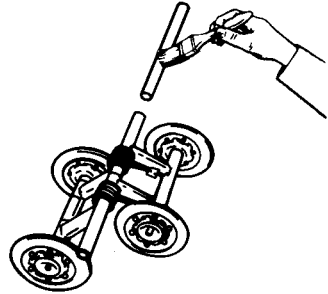
**NOTE:** The track should be rotated periodically (every 40 days). Do not release track tension.

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

## Suspension

Remove the bogie wheel sets from the vehicle. Remove cross shaft from bogie wheel set. Clean bogie wheel assembly and cross shaft of dirt or rust.

Check condition of shaft and replace if bent or worn. Apply a coat of low temp. grease on cross shaft.



A017005009

Grease each bogie wheel until the old grease is flushed out. Spray bogie wheel springs with metal protector. If unavailable, wipe with a cloth or rag soaked in oil.

Reassemble entire bogie wheel set, making sure assembly moves freely. Reinstall bogie wheel set in the proper position.

Torque cross shaft bolts to 30 N•m (23 lbf•ft). Repeat above steps on remaining bogie wheel sets. Lubricate rear hubs through grease fittings.

## Ski assembly

Wash or brush all dirt or rust accumulation from ski and spring. Grease ski leg at grease fitting. Check condition of ski, ski runner and leaf spring. Replace if worn or weak. Apply metal protector on ski assembly. If unavailable, wipe the entire ski with a cloth soaked in oil to prevent rust formation.

## Controls

Lubricate steering mechanism. Inspect components for tightness (spring coupler bolt, steering arm locking bolt, ball joint, etc.). Tighten if necessary. Oil moving joints of brake mechanism.

**WARNING:** Do not lubricate throttle and/or brake cable or housing. Avoid getting oil on brake linings.

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

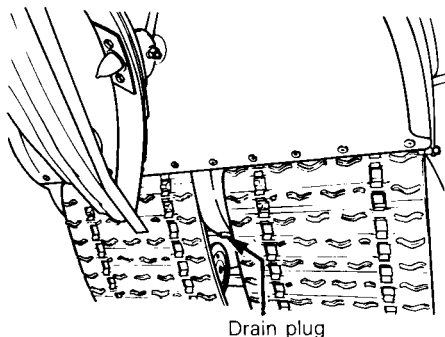
### Chaincase (Elan only)

Drain the chaincase and refill to proper level with fresh chaincase oil. (P/N 413 8019 00 - 200 ml).

To drain the chaincase remove the access plug (lower plug) and tilt vehicle hard left.

### Gearbox (Alpine only)

Drain gearbox and refill with 450 ml (16 oz) of fresh Bombardier chaincase oil (P/N 413 8019 00 - 200 ml). The drain plug is located underneath the front part of the vehicle.



A017005010

### Drive pulley

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

### Driven Pulley

Remove drive belt. Thoroughly clean the driven pulley shaft. Apply a light film of low-temperature grease on shaft. Activate the sliding half several times to distribute grease on shaft. Spray internal pulley surfaces with metal protector.

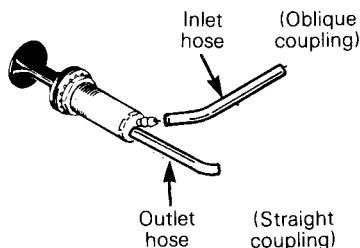
**NOTE:** Leave drive belt off during entire storage period.

### Engine and primer lubrication

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

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

1. Start the engine and allow it to run at idle speed until the engine reaches its operational temperature.
2. Stop the engine.
3. Disconnect the inlet primer hose from the primer valve.



A002002009



4. Plug inlet primer hose to prevent gasoline from draining.
5. Using an appropriate hose, connect one end of the hose to the inlet of the primer valve and place the other end in a BLIZZARD OIL container.
6. Activate the primer in order to fill with oil.
7. Restart engine and run at idle.
8. 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).
9. The engine stopped, remove the spark plug(s) and pour approximately 85 ml (3 Imp. oz.) of oil into the cylinders.
10. Crank the engine to allow the crankshaft to turn 2 or 3 revolutions.
11. Reinstall spark plug(s) and inlet primer hose.

Do not run engine during storage period.

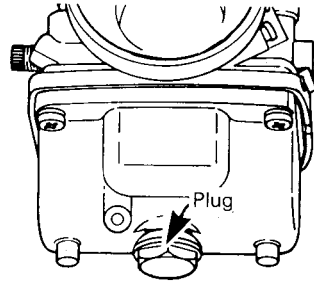
### Fuel tank and carburetor

Remove the cap then, using a syphon, remove 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.**

The 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 and reinstall plug.



A002002010

Check all fuel lines, replace if necessary.

### Battery (Alpine only)

The battery should be removed from vehicle for the entire length of the storage period.

To remove, proceed as follows:

1. Disconnect the battery cables and remove the battery retainer cover.

▼ **CAUTION: To avoid possibility of grounding the positive terminal with the chassis, always disconnect black negative lead first.**

2. Remove the battery vent tube from the vent hole.
3. Lift out the battery. Before storing the battery, clean outside surface with a 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 as 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.**

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**◆ 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:** To prevent battery from discharging, store it on a wooden shelf in a cool, dry place. (A stored battery should be recharged at least every 40 days.)

## **Chassis**

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

**▼ CAUTION:** Plastic alloy components such as windshield, console, etc., can be cleaned using mild detergents or isopropyl alcohol. Do not use strong soaps, degreasing solvents, abrasive cleaners, paint thinners, etc..

Inspect hood and repair damage. Repair kits are available at your authorized Bombardier dealer.

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

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

**▼ CAUTION:** Cover the snowmobile with an opaque tarpaulin. This caution will prevent the sun rays or grime from affecting the plastic components and the vehicle finish.

## **General Inspection**

Check 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.

# 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 you and your authorized dealer. If these services are performed as suggested, your vehicle will give you many hours of fun and low cost use.

**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.

<b>PRE-SEASON PREPARATION CHART</b>	To be performed by dealer	●
	To be performed by owner	○
Change spark plug(s)*		○
Check gear box/chaincase oil level		○
Check drive chain tension (Alpine only)		○
Check steering adjustment/ski runner		○
Replace fuel filter (located inside fuel tank)		○
Check fuel lines and attaching points		○
Check track condition, tension and alignment		○
Check and lubricate suspension		○
Inspect drive belt and install		○
Check throttle cable for damage and free operation		○
Inspect brake condition and operation		○
Check electrical wiring (broken wire, damaged insulation)		○
Inspect condition of starting rope		○
Check tightness of all bolts, nuts and linkage		○
Refill gas tank		○
Check pulleys, clean and check condition of drive pulley		●
Inspect oil seals for possible cuts or leaks		●
Test battery, clean and install (Alpine only)		●
Set engine timing (if necessary replace breaker points on Elan model)		●
Adjust carburetor		●
Check fan belt condition and tension (Alpine only)		●
Check pulleys, verify components and clean. Lubricate		○

○ **\*NOTE:** Before installing new spark plugs, it is suggested to burn excess storage oil by starting the engine, using the old spark plugs. Only perform this operation 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.

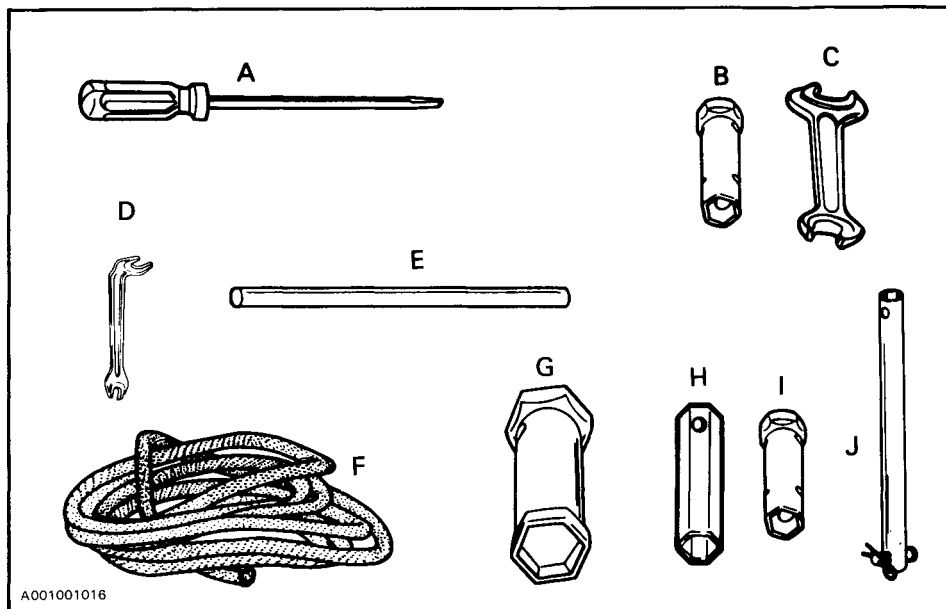
SYMPTOMS	POSSIBLE CAUSES	WHAT TO DO
Engine turns over but fails to start or starts with difficulty	1. No fuel to the engine	Check the tank level and fill up with correct gas-oil mixture. Check for possible clogging of fuel line, item 4.
	2. Flooded engine	Remove wet spark plugs, turn ignition to OFF and crank engine several times. Install clean dry spark plugs. Start engine following usual starting procedure. If engine continues to flood, see your dealer.
	3. Spark plug/faulty 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, <b>being careful to hold away from spark plug hole</b> . Follow engine starting procedure and check for spark. If no sparks appear, replace spark plug. If trouble persists, contact your dealer.
	4. Clogged fuel line (water or dirt)	Check condition and connections of fuel lines Check the cleanliness of fuel tank.
	5. Incorrect carburetor adjustment	Contact your dealer.
	6. Too much oil in fuel	Drain the fuel tank and refill with the correct gas/oil mixture.
	7. Engine timing	Engine timing may be defective or out of adjustment. Contact your dealer.
	8. Poor engine compression	Running with a lean fuel mixture may produce excessive engine wear resulting in poor engine compression. If this occurs, contact your dealer at once.
Engine will not turn manually	1. Seized engine	In the case of a seized engine contact your dealer.

<b>SYMPTOMS</b>	<b>POSSIBLE CAUSES</b>	<b>WHAT TO DO</b>
Engine lacks acceleration or power	1. Fouled or defective spark plug	Check item 3 of "Engine turns over but fails to start or starts with difficulty"
	2. 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 dealer.
	4. Ignition	First check item 2 and 3 of "Engine turns over but fails to start or starts with difficulty". If the ignition system still seems faulty, contact your dealer.
	5. Engaged decompressor (Elan only)	Check decompressor position.
	6. Engine	If unable to locate specific symptoms, contact your dealer.
Engine continually backfires	1. 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 dealer.
	3. Engine timing incorrectly set	Contact your 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 dealer.

# TOOLS

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

## Standard Tools



A001001016

### ALPINE

- A. Screwdriver
- B. Socket 10 / 13 mm
- C. Open end wrench 10 / 13 mm
- E. Socket wrench handle
- F. Starter rope
- G. Socket 21 / 26 mm
- H. Extension bar
- I. Socket 11 / 13 mm
- J. Spark plug socket extension with retainer pins

### ELAN

- A. Screwdriver
- B. Socket 10 / 13 mm
- D. Angular wrench 10 / 13 mm
- E. Socket wrench handle
- F. Starter rope
- G. Socket 21 / 26 mm

# SPECIFICATIONS

	ELAN	ALPINE
<b>ENGINE</b>		
Type	247	503
No. of cylinders	1	2
Bore	69.5 mm (2.73'')	72 mm (2.834'')
Stroke	66 mm (2.598'')	61 mm (2.401'')
Displacement	250.4 cm <sup>3</sup> (15.28 in. <sup>3</sup> )	496.7 cm <sup>3</sup> (30.27 in. <sup>3</sup> )
Compression ratio (corrected)	5.6:1	6.3:1
Maximum R.P.M.	6000	6500
Carburetor type	Mikuni VM 28-242	Mikuni VM 34-297
Carburetor adjustment:		
— air screw		1 1/2 turn
— idle speed	1300-1500 R.P.M.	1800-2000 R.P.M.
Torque:		
— engine head nuts		M8: 21 N•m (15 lbf•ft)
— crankcase nuts		M8: 21 N•m (15 lbf•ft)
— magneto ring nut		M22: 85 N•m (63 lbf•ft)
— fan nut	N.A.	M16: 65 N•m (48 lbf•ft)
— crankcase/engine support nuts	38 N•m (28 lbf•ft)	M10: 38 N•m (28 lbf•ft)
— exhaust manifold bolts	21 N•m (15 lbf•ft)	M8: 21 N•m (15 lbf•ft)
— electrical starter bolts	N.A.	M8: 21 N•m (15 lbf•ft)
		M5: 4 N•m (3 lbf•ft)
Fan belt free-play	N.A.	8-9 mm (5/16'')
<b>CHASSIS</b>		
Overall length	224.5 cm (88.5'')	288.3 cm (113.5'')
Overall width	77.5 cm (30.5'')	90.2 cm (35.5'')
Overall height	106.7 cm (42'')	123.2 cm (48.5'')
Ski stance (center to center)	64.8 cm (25.5'')	N.A.
Ski alignment	3 mm (1/8'') toe out	Ski perpendicular to handlebar
Torque:		
— steering arm/ski leg bolt	31 N•m (23 lbf•ft)	38-47 N•m (28-35 lbf•ft)
— steering column/handlebar	N.A.	38-47 N•m (28-35 lbf•ft)
— tie rod/ball joint lock nuts	20 N•m (15 lbf•ft)	N.A.
Dry weight	129.2 kg (285 lb)	291.4 kg (642.5 lb)
Bearing area	6916 cm <sup>2</sup> (1072 in <sup>2</sup> )	13935 cm <sup>2</sup> (2160 in <sup>2</sup> )
Ground pressure	1.81 kPa (.263 lbf/in <sup>2</sup> )	2.05 kPa (.297 lbf/in <sup>2</sup> )

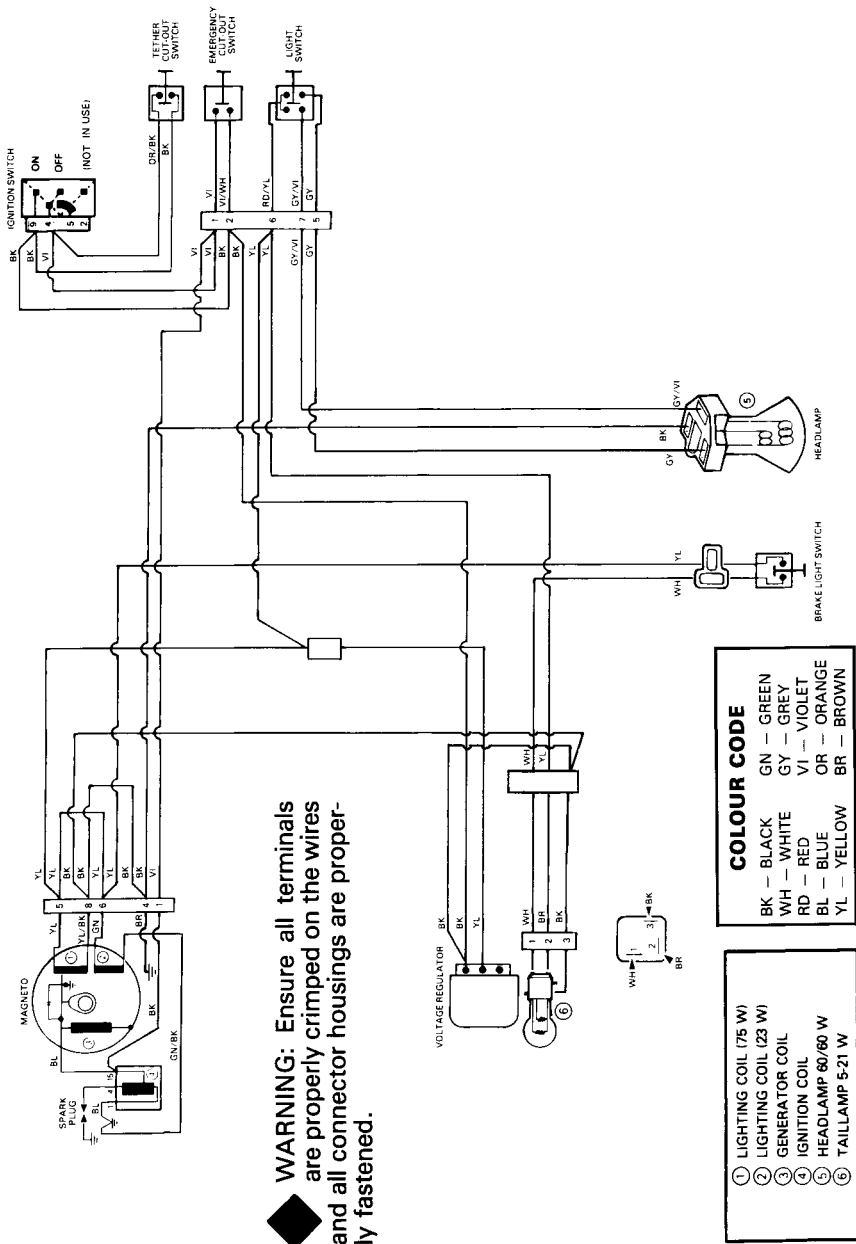
	ELAN	ALPINE
<b>POWER TRAIN</b>		
Track:	1	2
— quantity		
— width	289.6 cm (114'')	353.1 cm (139'')
— length	38.1 cm (15'')	
— tension	35 mm ± 3 (1 3/8" ± 1/8") distance between top inside edge of track and the bottom of the footboard.	A deflection of 57 mm (2 1/4 ± 1/8 in.) should exist between the top inside edge of the track and the retaining bolt of the second bogie wheel set from the rear of the vehicle.
— alignment	Equal distance between edges of track and link plates.	
Standard gear ratio	10/25	19/42
Gearbox chain tension	N.A.	3 to 6 mm (1/8" to 1/4")
Drive belt:		
— number	570 0411 00	414 5233 00
— max. width	30.2 mm (1 3/16'')	34.9 mm (1 3/8'')
— min. width	27 mm (1 1/16'')	31.8 mm (1 1/4'')
Chaincase/gearbox oil capacity	200 ml (7 oz.)	455 ml (16 oz.)
<b>ELECTRICAL</b>		
Lighting system (output)	12 V, 75/23 watts	12 V, 160 watts
Bulb:		
— headlamp	60/60 W	
— tail/stop	5/21 W	
— speedometer	N.A.	5/21 W
Fuse:		
— ignition switch	N.A.	15 A
— main wiring	N.A.	30 A
Breaker point gap	0.35 mm-0.40 mm (.014"-.016'')	N.A.
Spark plug:		
— type	Bosch M175 T1	NGK BR7ES
— gap	0.50 mm (.020'')	0.4 mm (.016'')
Ignition timing:		
— timing mark (B.T.D.C.)	Static: 5.00-8.00 mm (.197"-.315'')	2.29 mm (.090'') (20° (.090''))
	Dynamic: 20.50-23.50mm (.807-.925'')	
— stroboscopic timing	N.A.	6000 R.P.M.
<b>FUEL</b>		
Gas type	Regular leaded or unleaded	
Fuel tank capacity		
— S.I.	13.6 liters	22.7 liters
— Imp.	3 gallons	5 gallons
— U.S.	3.6 gallons	6 gallons
Premixed fuel/oil		
— oil type	Blizzard oil	
— ratio	50:1	
<b>BRAKE</b>		
Type	Drum	Disc, self-adjusting
Lining or pad minimum thickness	3 mm (1/8'')	3 mm (1/8'')
Control lever adjustment (minimum distance from handle- bar grip when fully applied)	25 mm (1'')	13 mm (1/2'')

N.A.: Not applicable

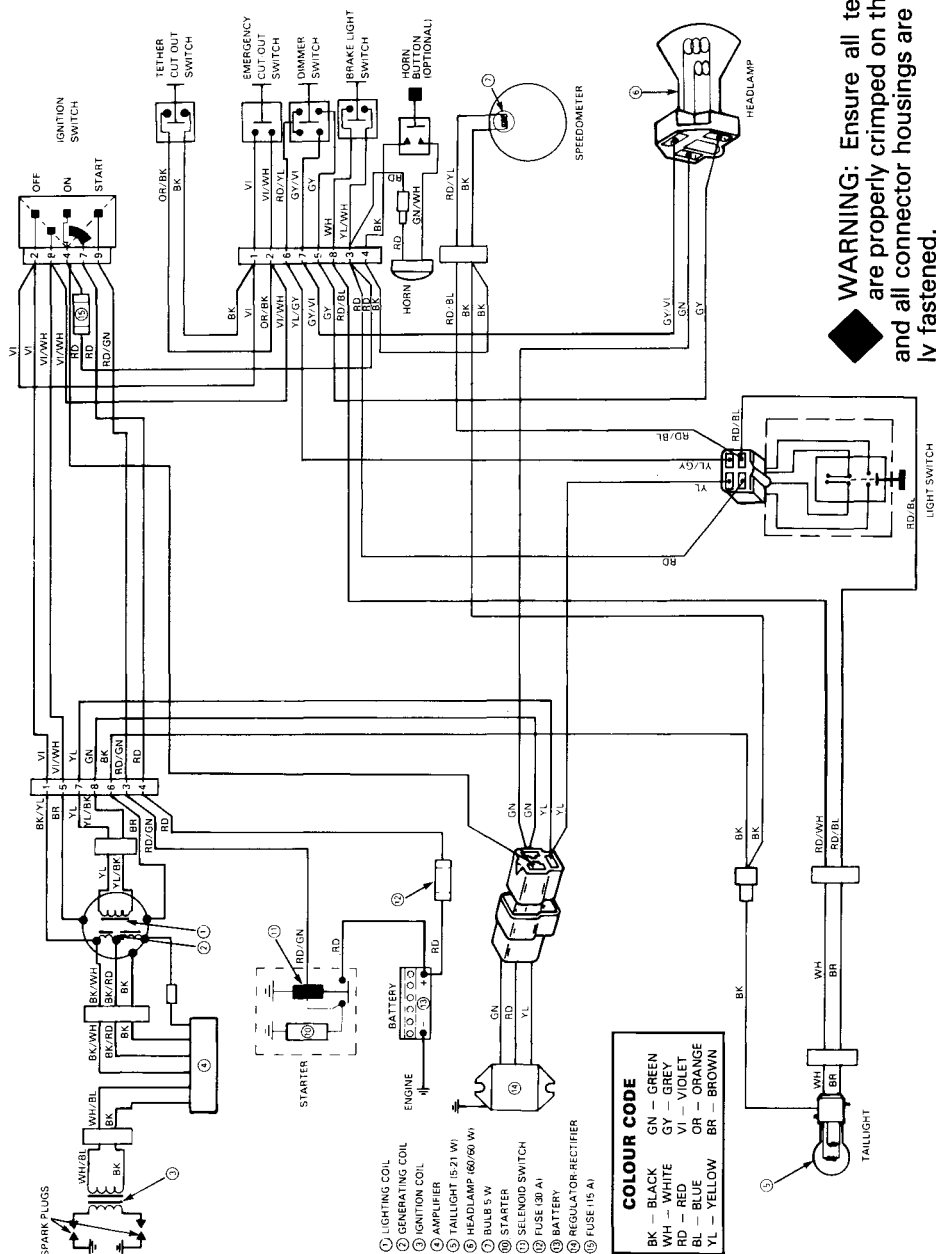
*Bombardier Inc. reserves the right to make changes in design and specifications and/or to make additions to, or improvements in its product without imposing any obligation upon itself to install them on its products previously manufactured.*



# WIRING DIAGRAM ELAN



# WIRING DIAGRAM



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

# SI \* INFORMATION GUIDE

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## BASE UNITS

DESCRIPTION	UNIT	SYMBOL
length	meter	m
mass	kilogram	kg
force	Newton	N
liquid	liter	l
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	1,000
centi	c	one hundredth of a	0.01
milli	m	one thousandth of a	0.001

## CONVERSION FACTORS

TO CONVERT	TO †	MULTIPLY BY
lbf•ft	lbf•in	12
imp. oz	U.S. oz	0.96
imp. gal.	U.S. gal.	1.2
in	mm	25.4
in	cm	2.54
ft	m	0.3
mile/h	km/h	1.61
in <sup>2</sup>	cm <sup>2</sup>	6.45
in <sup>3</sup>	cm <sup>3</sup>	16.39
imp. oz	ml	28.41
U.S. oz	ml	29.57
imp. gal.	l	4.55
U.S. gal.	l	3.79
oz	g	28.35
lb	kg	0.45
lbf	N	4.4
lbf•in	N•m	0.11
lbf•ft	N•m	1.36
lbf•in <sup>2</sup>	kPa	6.89
Fahrenheit	Celsius	(°F - 32) x 5/9
Celsius	Fahrenheit	(°C x 1.8) + 32

\* THE INTERNATIONAL SYSTEM OF UNITS (SYSTÈME INTERNATIONAL) ABBREVIATES "SI" IN ALL LANGUAGES.

† TO OBTAIN THE INVERSE SEQUENCE, DIVIDE BY THE GIVEN FACTOR eg: TO CONVERT mm TO in DIVIDE BY 25.4.

# NOTES

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# 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 supplied below.

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



## CHANGE OF ADDRESS

VEHICLE IDENTIFICATION NUMBER 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

OLD ADDRESS: \_\_\_\_\_  
NAME  
\_\_\_\_\_  
NO STREET APT.  
\_\_\_\_\_  
CITY STATE/PROVINCE ZIP / POSTAL CODE

NEW ADDRESS: \_\_\_\_\_  
NAME  
\_\_\_\_\_  
NO STREET APT.  
\_\_\_\_\_  
CITY STATE/PROVINCE ZIP / POSTAL CODE



## CHANGE OF OWNERSHIP

VEHICLE IDENTIFICATION NUMBER 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

The ownership of this vehicle is transferred

FROM: \_\_\_\_\_  
NAME  
\_\_\_\_\_  
NO STREET APT.  
\_\_\_\_\_  
CITY STATE/PROVINCE ZIP / POSTAL CODE

TO: \_\_\_\_\_  
NAME  
\_\_\_\_\_  
NO STREET APT.  
\_\_\_\_\_  
CITY STATE/PROVINCE ZIP / POSTAL CODE



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STAMP

**BOMBARDIER INC.**  
ATT.: WARRANTY DEPARTMENT  
VALCOURT, QUEBEC  
CANADA, J0E 2L0

STAMP

**BOMBARDIER INC.**  
ATT.: WARRANTY DEPARTMENT  
VALCOURT, QUEBEC  
CANADA, J0E 2L0