2011 Operator's Manual

Utility/Touring Models

Bearcat 570
Bearcat 570 XT
Bearcat Z1 XT/LTD
T570
TZ1/LXR/Turbo LXR/LTD



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Limited Warranty

Arctic Cat Inc. (hereinafter referred to as Arctic Cat) extends a limited warranty on each new Arctic Cat Snowmobile it assembles and on each part and accessory assembled or sold by Arctic Cat. The warranty is extended to the original retail purchaser only on parts and accessories sold through an authorized Arctic Cat Snowmobile dealer. Warranty on snowmobiles is extended to the original retail purchaser; however, the balance of the unused warranty may be transferred to another party. Warranty coverage is only available in the country in which the original retail purchase occurs to the original retail purchaser resident in that country or to a transferee resident in that country of the balance of the unused warranty.

Arctic Cat warrants only the products it assembles and/or sells and does not warrant that other products will function properly when used with an Arctic Cat Snowmobile or will not damage the Arctic Cat Snowmobile. Arctic Cat does not assume any liability for incidental or consequential damages.

Arctic Cat will repair or replace, at its option, free of charge (including any related labor charges), any parts that are found to be warrantable in material or workmanship. This repair work MUST be done by an authorized Arctic Cat Snowmobile dealer. No transportation charges, rental charges, or inconvenience costs will be paid by Arctic Cat. The warranty is validated upon examination of said parts by Arctic Cat or an authorized Arctic Cat Snowmobile dealer. Arctic Cat reserves the right to inspect such parts at its factory for final determination if warranty should apply.

The warranty periods are as follows:

1. For snowmobiles used for recreational purposes:
   —If purchased between May 1 and November 30, warranty expires ONE (1) YEAR from December 1 of the current year.
   —If purchased between December 1 and April 30, ONE (1) YEAR from the date of sale.
2. For snowmobiles used for commercial purposes (including rental operations), ONE (1) YEAR from the date of invoice and/or 5000 MILES whichever comes first (non-transferable).
3. THIRTY (30) DAYS from date of sale of snowmobile on Arctic Cat supplied batteries.
4. THIRTY (30) DAYS from date of sale for all dealer installed genuine Arctic Cat service parts and accessories.
5. UNTIL EXPIRATION OF THE NEW PRODUCT WARRANTY (paragraphs 1 and 2 above) for all eligible replacement parts on new product.

Exclusions to this warranty include normal wear, abuse (i.e. a track run on marginal snow conditions without proper lubrication or additional idler wheels), and the following parts:

Fuel Filter	Light Bulbs	Windshield	Torn or Punctured Upholstery
Drive Belt	Wear Bars	Water Pump Belt	Brake Pads
Fan Belt	Spark Plugs	Wear Strips	Drive Clutch/Driven Pulley Wear Parts

The following will VOID Arctic Cat's warranty:

1. Failure to perform the proper break-in procedure and all related maintenance, storage procedures (if stored for extended periods), and/or service as recommended in the Operator's Manual.
2. Repairs and/or adjustments by anyone other than an authorized Arctic Cat Snowmobile dealer.
3. Use of an improper fuel mixture ratio.
4. Use of improper carburetor main jets.
5. Use of improper gasoline, lubricating oils, or spark plugs.
6. An accident or subjecting the snowmobile to misuse, abuse, or negligent operation.
7. Any modification, addition, or removal of parts unless instructed to do so by Arctic Cat.
8. Use of the snowmobile in any way for racing purposes.
9. Removal of the engine for use in another vehicle.
10. Removal or mutilation of the Vehicle Identification Number or Engine Serial Number.
11. Use of parts not sold or approved by Arctic Cat.
12. Track and tunnel damage resulting from either ice stud or hooker plate installation.
13. Damage due to improper transportation.

In consideration of the foregoing, any implied warranty is limited in duration to the various warranty periods set forth. This warranty gives you specific legal rights, and you may also have other rights which vary from state/province to state/province and country to country. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

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Reference Information

Write the appropriate information for your Arctic Cat Snowmobile in the spaces below.

Always use these numbers when referring to your snowmobile.

Model: _____
Date of Purchase: _____
Vehicle Identification Number: _____
Engine Serial Number: _____
Your Arctic Cat Dealer: _____
Address: _____
Phone: _____

⚠ WARNING

A snowmobile is a very high performance vehicle. Because it does accelerate rapidly and is capable of very high speeds, it should not be operated by a novice or an inexperienced operator. Never accelerate rapidly or drive at high speed beyond the limits of visibility or without being totally familiar with the terrain and what lies in front of you. Obey speed limits and never operate at speeds that do not allow adequate maneuvering and stopping distances. Read and study the entire Operator's Manual and Safety Handbook. Failure to follow this warning could result in personal injury to yourself or others.

Personal Injury

- To avoid injury to yourself and others, NEVER operate the snowmobile without first reading and understanding this manual and the Snowmobile Safety Handbook; then follow the instructions and heed the warnings given.
- USE COMMON SENSE.
- DON'T DRINK and DRIVE.
- STAY IN CONTROL at ALL TIMES.
- TELL YOUR FRIENDS. If you see a friend operating a snowmobile recklessly, at excessive speeds, while intoxicated, or in other unsafe ways, don't wait until it is too late to warn of the consequences of snowmobile misuse. Such conduct endangers everyone. TAKE AN ACTIVE ROLE IN THE SAFETY OF YOURSELF AND OTHERS.

Parts and Accessories

When in need of replacement parts, oil, or accessories for your Arctic Cat Snowmobile, be sure to only use GENUINE ARCTIC CAT PARTS, OIL, AND ACCESSORIES. Only genuine Arctic Cat parts, oil, and accessories are engineered to meet the standards and requirements of your Arctic Cat Snowmobile. For a complete list of accessories, refer to the current Arctic Cat Accessory Catalog. To aid in service and maintenance procedures on these snowmobiles, an Illustrated Parts Manual and a Service Manual are available through your local Arctic Cat Snowmobile dealer.

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Foreword

Congratulations! You have chosen a quality Arctic Cat Snowmobile designed and assembled to give dependable service. Be sure, as the owner/operator of an Arctic Cat Snowmobile, to become thoroughly familiar with its basic operation, maintenance, and off-season storage procedures. Read this manual and the accompanying Snowmobile Safety Handbook before operating the snowmobile to learn safe and proper use of your new Arctic Cat Snowmobile. Always operate the snowmobile within your level of skill and current terrain conditions.

The Operator's Manual, Snowmobile Safety Handbook, and Snowmobile Decals display the words Warning, Caution, and Note to emphasize important information. The symbol ⚠ **WARNING** identifies personal safety-related information. Be sure to follow the directive because it deals with the possibility of serious personal injury or even death. A **CAUTION** identifies unsafe practices which may result in snowmobile-related damage. Follow the directive because it deals with the possibility of damaging part or parts of the snowmobile. The symbol ■ **NOTE:** identifies supplementary information worthy of particular attention.

This manual covers operator-related maintenance, operating instructions, and off-season storage instructions. If major repair or service is ever required, contact an authorized Arctic Cat Snowmobile dealer for professional service.

At the time of publication, all information and illustrations were technically correct. Some illustrations used in this manual are used for clarity purposes only and are not designed to depict actual conditions. Because Arctic Cat Inc. constantly refines and improves its products, no retroactive obligation is incurred.

This Operator's Manual should be considered a permanent part of the snowmobile and must remain with the snowmobile at the time of resale. If the snowmobile changes ownership more than once, contact Arctic Cat Inc., Service Department, P.O. Box 810, Thief River Falls, MN 56701, for proper registration information. This manual was prepared by the Product Service and Warranty Department of Arctic Cat Inc.

Every Arctic Cat Snowmobile meets or exceeds the standards of the Snowmobile Safety and Certification Committee and displays the SSCC decal. Arctic Cat Inc. endorses and encourages the safe use of all snowmobiles. Always wear a helmet and eye protection. Drive with caution, observe all state and local regulations, and respect the rights of others. ISMA members like Arctic Cat do their part to improve trails, sponsor events, and generally support the sport of snowmobiling. As a member of the National Snowmobile Foundation, Arctic Cat Inc. promotes snowmobiling through education, charity, and research programs.

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Declaration of Conformity

Application of council directives: EMC Directive 89/336/EEC
Issued by European Commission. EC Machinery Directive 98/37/EC

Type of Equipment: Snowmobile
Brand Name: Arctic Cat
Model Numbers:

S2011T5DFCUSW	S2011TZNTOUSW	S2011TZNLXUSR	S2011TZNTXUSR
S2011BCDFCUSB	S2011BCDWTUSB	S2011BCNWTUSL	S2011BCNWTUSG
S2011BCNWLUSR			

Standards to which conformity is declared:

EMC: EN 55012, EN 61000-6-0
MACHINERY: EN 292-1, EN 292-2, EN 953, EN 1050, EN 954-1

Manufacturer (if not issuing agent): Arctic Cat Inc.
601 Brooks Ave. S.
Thief River Falls, MN
56701 USA

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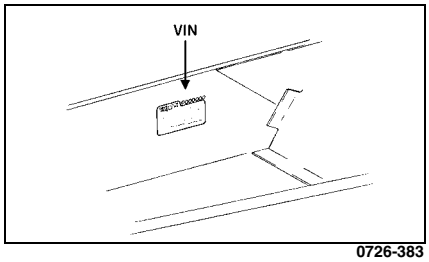
Snowmobile Safety Rules

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General Information

Snowmobile Identification

The Arctic Cat Snowmobile has two important identification numbers. The Vehicle Identification Number (VIN) is stamped into the tunnel near the right-side footrest. The Engine Serial Number (ESN) is stamped into the crankcase of the engine.



0726-383

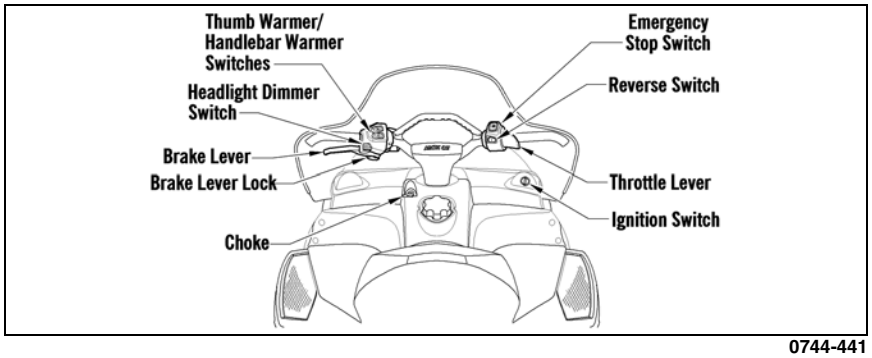
These numbers are required by the dealer to complete warranty claims properly. No warranty will be allowed by Arctic Cat Inc. if the engine serial number or VIN is removed or mutilated in any way.

Always provide the snowmobile name, VIN, and ESN when contacting an authorized Arctic Cat Snowmobile dealer for parts, service, accessories, or warranty. If the complete engine must be replaced, ask the dealer to notify Arctic Cat for correct registration information.

Control Locations

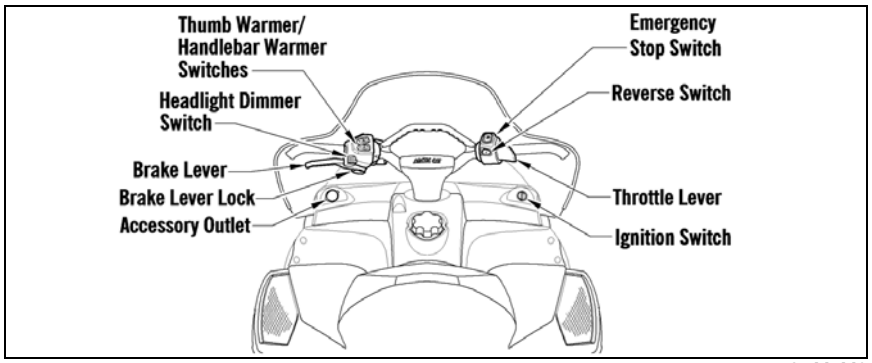
Shown are the typical control locations for Arctic Cat snowmobiles. Location of a specific control will vary according to model.

Bearcat 570/570 XT/T570



0744-441

Bearcat Z1 XT/TZ1



0744-442

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Gasoline-Oil

Recommended Gasoline

The recommended gasoline to use in these snowmobiles is 87 octane regular unleaded. In many areas, oxygenates (either ethanol or MTBE) are added to the gasoline. Oxygenated gasolines containing up to 10% ethanol or up to 15% MTBE are acceptable gasolines; however, on the Bearcat 570/T570 models whenever using oxygenated gasolines, the carburetor main jet must be one size larger than the main jet required for regular unleaded gasoline. For example, if a 220 main jet is recommended for regular unleaded gasoline, a 230 main jet must be installed if using an oxygenated gasoline.

■ **NOTE: The TZ1 Turbo models will detect lower octane gasoline and reduced engine performance will result. It is recommended that 91 octane (minimum) gasoline be used in these models.**

CAUTION

If a situation arises wherein 91 octane gasoline is not available, 87 octane gasoline can be substituted; however, do not prolong the usage of 87 octane gasoline as it will cause poor engine performance.

When using ethanol blended gasoline, it is not necessary to add a gasoline antifreeze since ethanol will prevent the accumulation of moisture in the fuel system.

CAUTION

Do not use white gas or gasolines containing methanol. Only Arctic Cat approved gasoline additives should be used.

Recommended Injection Oil (Bearcat 570/T570 Models)

The recommended oil to use in the oil-injection system is Arctic Cat Formula 50 Injection Oil (p/n 5639-475 - qt) or (p/n 5639-476 - gal.). This oil is specially formulated to be used either as an injection oil or as a pre-mix oil (for break-in) and meets all of the lubrication requirements of the Arctic Cat snowmobile engine.

CAUTION

Any oil used in place of the recommended oil could cause serious engine damage.

Recommended Engine Oil (Bearcat Z1 XT/TZ1 Models)

The recommended oil to use is Synthetic 0W-40 Oil (p/n 5639-172 - qt) or (p/n 5639-173 - gal.).

After the engine break-in period, the engine oil should be changed every 2500-3000 miles on the non-turbo models or 1500-2000 miles on the turbo model and before prolonged storage.

Filling Gas Tank

Since gasoline expands as its temperature increases, the gas tank must be filled to its rated capacity only. Expansion room must be maintained in the tank particularly if the tank is filled with cold gasoline and then moved to a warm area.

Also, if the snowmobile is to remain on a trailer after filling the gas tank, the bed of the trailer must be maintained level to prevent gasoline from draining out through the gas tank vent hose.

⚠ WARNING

Always fill the gas tank in a well-ventilated area. Never add gasoline to the snowmobile gas tank near any open flames or with the engine running. DO NOT SMOKE while filling the gas tank. Do not sit on the snowmobile without first installing the gas tank cap.

Break-In Gas/Oil Mixing Instructions (Bearcat 570/T570 Models)

Before mixing gasoline and oil, make sure the oil is at room temperature (20° C/68° F). Use a U.L. approved 22.7 l (6 U.S. gal.) gasoline container for mixing the gasoline and oil. To properly mix the fuel at a 100:1 ratio, use the following procedure:

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CAUTION

Never mix oil and gasoline in the snowmobile gas tank.

1. Pour gasoline into the gasoline container until approximately half full.
2. Pour 236 ml (8 fl oz) of the recommended 2-cycle oil into the gasoline container.
3. Install cap on gasoline container and shake the mixture vigorously.
4. Fill the gasoline container with gasoline; then cap the gasoline container and shake the mixture vigorously.
5. Using a fine-mesh screened funnel, pour the fuel mixture from the gasoline container into the snowmobile gas tank.

⚠ WARNING

Always fill the gas tank in a well-ventilated area. Never add gasoline to the snowmobile gas tank near any open flames or with the engine running. DO NOT SMOKE while mixing fuel or filling the gas tank.

Engine Break-In

The Arctic Cat engine (when new or rebuilt) requires a short break-in period before the engine is subjected to heavy load conditions.

Bearcat 570/T570 Models

Arctic Cat requires that the first tankful of fuel be premixed at a 100:1 ratio in all oil-injection models.

During the break-in period, a maximum of 1/2 throttle is recommended; however, brief full-throttle accelerations and variations in driving speeds contribute to good engine break-in. After one (1) tankful break-in period, the snowmobile may be taken to an authorized Arctic Cat Snowmobile dealer for a checkup. This checkup is at the discretion and the expense of the snowmobile owner.

CAUTION

DO NOT exceed the one (1) tankful limitation of a 100:1 gas/oil break-in mixture. Continuous use of a gas/oil mixture, unless consistently operating in extremely cold conditions (-26°C/-15°F or colder), could cause spark plug fouling and excessive carbon buildup. A 100:1 gas/oil mixture must be used in conjunction with the oil-injection system to ensure adequate engine lubrication in extremely cold conditions.

Bearcat Z1 XT/TZ1 Models

This engine does not require any premixed fuel during the break-in period.

CAUTION

DO NOT use premixed fuel in the snowmobile gas tank. Engine damage will occur.

To ensure trouble-free operation, careful adherence to the following break-in guidelines will be beneficial.

0-200 miles	1/2 Throttle (45 MPH-max)
200-400 miles	1/2-3/4 Throttle
400-600 miles	1/2-3/4 Throttle *

* With occasional full-throttle operation.

To ensure proper engine break-in, Arctic Cat recommends that the engine oil and filter be changed after 500 miles. This service is at the discretion and expense of the snowmobile owner.

Drive Belt Break-In

Drive belts require a break-in period of approximately 25 miles. Drive the snowmobile for 25 miles at 3/4 throttle or less. By revving the engine up and down (but not exceeding 60 mph), the exposed cord on the side of a new belt will be worn down. This will allow the drive belt to gain its optimum flexibility and will extend drive belt life.

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■ **NOTE: Before starting the snowmobile in extremely cold temperatures, the drive belt should be removed and warmed up to room temperature. Once the drive belt is at room temperature, install the drive belt (see Drive Belt sub-section in the Maintenance section).**

CAUTION

Never run the engine with the drive belt removed. Excessive revving of the engine could result in serious engine damage and drive clutch failure.

Cold Drive-Away Function (Bearcat Z1 XT/TZ1 Models)

On these models, there is a "cold drive-away" function incorporated within the engine.

■ **NOTE: On models with a Standard Gauge when cold-starting the engine, the coolant temperature warning icon will illuminate and the readout screen will display TEMP. With the engine in this temperature range, the RPM "limit" of the engine will be below drive system engagement speed. As the engine warms, the TEMP display will go out, the coolant temperature warning icon will begin to flash, and the RPM "limit" of the engine will increase allowing the snowmobile to move without full-throttle operation. When the engine reaches proper operating temperature, the coolant temperature warning icon will go out.**

■ **NOTE: On models with a Deluxe Gauge when cold-starting the engine, the coolant temperature warning icon will illuminate and the TEMP display on the readout screen will begin to flash. With the engine in this temperature range, the RPM "limit" of the engine will be below drive system engagement speed. As the engine warms, the coolant temperature warning icon will begin to flash, the TEMP display will continue to flash, and the RPM "limit" of the engine will increase allowing the snowmobile to move without full-throttle operation. When the engine reaches proper operating temperature, the coolant temperature warning icon and the TEMP display will go out.**

CAUTION

It is extremely important that the engine is properly warmed up before subjecting the engine to high speed operation or heavy loads. The engine should be allowed to idle at least 3-4 minutes before it is operated at more than 1/2 throttle. In extremely cold conditions, the warm-up time will be longer. Cold seizure and piston scuffing caused by insufficient warm-up will not be covered by warranty. Also, do not idle the engine for excessively long periods of time.

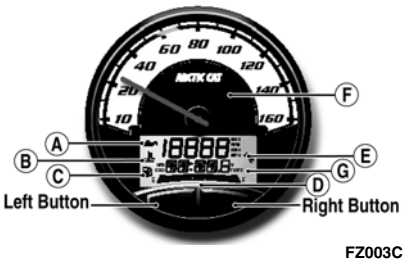
Speedometer/ Tachometer

These snowmobiles are equipped with different speedometer/tachometer styles. Determine which style your model is equipped with and use the appropriate following information.

Indicator Icons (Standard Gauge)

Certain models (Bearcat models, T570 model, and TZ1 standard model) are equipped with a standard gauge combination speedometer/tachometer. Indicator icons are incorporated within the speedometer/tachometer. Also incorporated into the speedometer/tachometer is a digital readout screen.

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A. Oil Pressure/Low Oil
B. Coolant Temperature
C. Low Fuel
D. Fuel Level
E. Service
F. High Beam
G. Charging System (Bearcat Z1 XT/TZ1 Models)

RPM/MPH (kph)

By pushing the left button once, the RPM and MPH will be displayed (one on the readout screen and one with the needle). By pushing the button once again, the functions will be reversed.

By pushing the left button (with speed being displayed) for more than two seconds, the display will change between standard mph or metric kph. Release the button when desired display appears.

With RPM displayed on the readout screen by pushing and holding the left button, maximum RPM will be displayed on the readout screen. The maximum RPM readout will reset when the right button is pushed (while maximum RPM is displayed).

Odometer/Trip-Meter (1)/ Trip-Meter (2)/Hour-Meter/Clock

■ NOTE: The clock is available on electric start models only.

By pushing the right button, the readout screen will display odometer, trip-meter (1), trip-meter (2), hour-meter, and clock. To reset the trip meter with the trip meter displayed, push and hold the right button until the display is cleared. The hour-meter readout will not reset.

Clock (Electric Start)

With the clock selected on the readout screen by pushing and holding the right button for two seconds, the option of selecting the 12-hour or 24-hour clock is available. Push the left button for 12-hour display; push the right button for 24-hour display. At this point, the hours and minutes will begin to flash. Push the left button to change the hour display; push the right button to change the minute display (either tap the buttons for individual number display or push and hold the buttons for rapid number display).

■ NOTE: During clock setting if neither button (left, right) is pushed within a 5-second time period, the clock-setting mode will be exited with changes saved.

Service Icon

On electric start models, the icon should illuminate each time the key is turned to RUN or START, and it should go out when the engine starts. If the icon stays illuminated (on electric start models) or it illuminates while the engine is running, the system is receiving input that is outside of its established parameters. If the icon illuminates indicating an error, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

Coolant Temperature Warning Icon (Bearcat Z1 XT/TZ1 Models)

■ NOTE: When cold-starting the engine, the coolant temperature warning icon will illuminate, the readout screen will display TEMP, and engine RPM limit will be below drive system engagement speed.

When the engine reaches proper operating temperature, the coolant temperature warning icon and TEMP display will cease to flash.

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If the coolant temperature is at or above 115° C (239° F), the coolant temperature warning icon will flash a warning (alert) and the engine will "surge" to alert the operator. If the coolant temperature is at or above 117° C (243° F), the coolant temperature warning icon will cease flashing and will remain constantly illuminated.

Steady Flash (Coolant Temperature Icon)	Coolant Temperature Above 115° C (239° F).
Constant On (Coolant Temperature Icon)	Coolant Temperature Above 117° C (243° F).

■ **NOTE: If the coolant temperature icon is constantly on, the engine will shut off if vehicle speed is reduced to 1.5 kph (0.9 MPH) or slower.**

CAUTION

At this point, take precautionary measures such as changing to loose snow terrain, shutting the engine off (allowing the engine to cool down), and checking coolant level. If unable to either determine or remedy the problem, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

Charging System Warning Icon (Bearcat Z1 XT/TZ1 Models)

The Charging System Warning Icon is designed to warn the operator if the battery charging system is not functioning. The icon should illuminate each time the key is turned to RUN or START, and it should go out when the engine starts. If the icon stays illuminated or it illuminates while the engine is running, the battery is not being charged, and the snowmobile is running on battery reserve power only.

If the Charging System Warning Icon illuminates, you should, as soon as possible, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner. The engine **WILL NOT RUN** without battery power.

Low Oil Warning Icon (Bearcat 570/T570 Models)

The Low Oil Warning Icon is designed to alert the snowmobile operator when the oil in the oil injection reservoir gets below a prescribed level; however, it is highly recommended that a visual verification of the oil level in the reservoir be done prior to operating the snowmobile. Once the Low Oil Warning Icon illuminates during operation of the snowmobile, the operator must periodically monitor the level of oil in the reservoir and must fill the reservoir the next time gasoline is added to the gas tank. The "alert level" of the Low Oil Warning Icon is approximately equal to 1 tankful of gasoline under normal operating conditions.

Oil Pressure Warning Icon (Bearcat Z1 XT/TZ1 Models)

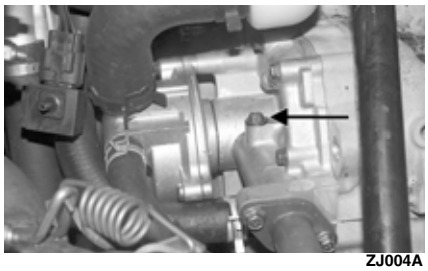
The Oil Pressure Warning Icon indicates engine oil pressure, not the oil level; however, if the oil level is low, it may affect oil pressure.

The icon should illuminate each time the ignition switch is turned to RUN or START, and it should go out when the engine starts. If the icon illuminates while the engine is running, oil pressure has been lost and the engine will automatically shut off.

If oil pressure is lost, use the following procedure to check the oil level:

1. With the engine off, remove the engine oil level stick and wipe it clean. Without screwing it in, set the stick back in the oil tank. Remove it and observe the oil level on the stick. If the oil level is at or below the ADD mark on the oil level stick, add only enough recommended oil to raise the level to the NORMAL range. DO NOT overfill the reservoir with oil.
2. Open the air bleed bolt located on the oil pump (beneath the coolant tank) to purge air from the oil hose.

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■ **NOTE: When air can no longer be heard purging from oil pump bleed, tighten the bleed bolt to 7.5 ft-lb.**

CAUTION

Do not attempt to start the engine with the bleed bolt open.

3. Start the engine. The warning icon should go out within five seconds.
4. If the warning icon does not go out, shut the engine off immediately and repeat step 2; then repeat step 3.

If the warning icon does not go out or if the engine does not start, take the snowmobile to an authorized Arctic Cat Snowmobile dealer. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

Indicator Icons (Deluxe Gauge)

Certain models (TZ1 LXR/LTD models) are equipped with a deluxe gauge combination speedometer/tachometer. Indicator icons are incorporated within the speedometer/tachometer. Also incorporated into the speedometer/tachometer is a digital readout screen.



FZ001A

A. High Beam
B. Oil Pressure/Low Oil
C. Coolant Temperature
D. Increment Button
E. Select Button
F. Decrement Button
G. Service
H. Charging System

RPM/MPH (kph)

By pushing the increment button once, the RPM and MPH will be displayed (one on the readout screen and one with the needle). By pushing the button once again, the functions will be reversed.

By pushing the increment button (with speed being displayed) for more than two seconds, the display will change between standard mph or metric kph.

With RPM displayed on the readout screen by pushing and holding the increment button, maximum RPM will be displayed on the readout screen. The maximum RPM readout will reset when the decrement button is pushed (while maximum RPM is displayed).

Odometer/Trip-Meter (1)/ Trip-Meter (2)/Hour-Meter

By pushing the decrement button, the readout screen will display odometer, trip-meter (1), trip-meter (2), and hour-meter. To reset the trip meter with the trip meter displayed, push and hold the decrement button until the display is cleared. The hour-meter readout will not reset.

Clock/Altimeter

By pushing the select button, the readout screen will display clock, altimeter, and maximum altimeter.

With clock selected on the display by pushing and holding the select button for two seconds, the option of selecting the 12-hour or 24-hour clock mode is available. Push the increment button to toggle between the 12-hour display and the 24-hour display. When desired mode is displayed, push the select button.

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At this point, the hours display will begin to flash. Push the increment button to increase the hours; push the decrement button to decrease the hours. Pushing and holding a button will accelerate the number display. When desired hour number is displayed, push the select button.

At this point, the minutes display will begin to flash. Push the increment button to increase the minutes; push the decrement button to decrease the minutes. Pushing and holding a button will accelerate the number display. When desired minute number is displayed, push the select button.

■ NOTE: During clock setting if no button (increment, decrement, select) is pushed within a 5-second time period, the clock-setting mode will be exited with changes saved.

The altimeter readout is based off barometric pressure and may require calibration as weather conditions change.

To calibrate the altimeter to an established altitude with altimeter selected on the display screen by pushing and holding the select button for a minimum of two seconds, the acronym CAL will be displayed on the readout screen for one second; then the altitude value will flash. Push the increment button to increase the displayed altitude; push the decrement button to decrease the displayed altitude. Pushing and holding a button will accelerate the number display.

■ NOTE: If MPH has been selected in the speed readout, the altitude value will be displayed in feet. If kph has been selected in the speed readout, the altitude value will be displayed in meters.

To reset the maximum altimeter readout with the maximum altimeter displayed, push and hold the select button for a minimum of two seconds.

Service Icon

On electric start models, the icon should illuminate each time the key is turned to RUN or START, and it should go out when the engine starts. If the icon stays illuminated (on electric start models) or it illuminates while the engine is running, the system is receiving input that is outside of its established parameters. If the icon illuminates indicating an error, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

Coolant Temperature Warning Icon

■ NOTE: When cold-starting the engine, the coolant temperature warning icon will illuminate, the readout screen will display TEMP, and engine RPM limit will be below drive system engagement speed.

When the engine reaches proper operating temperature, the coolant temperature warning icon and TEMP display will cease to flash.

If the coolant temperature is at or above 115° C (239° F), the coolant temperature warning icon will flash a warning (alert) and the engine will “surge” to alert the operator. If the coolant temperature is at or above 117° C (243° F), the coolant temperature warning icon will cease flashing and will remain constantly illuminated.

Steady Flash (Coolant Temperature Icon)	Coolant Temperature Above 115° C (239° F).
Constant On (Coolant Temperature Icon)	Coolant Temperature Above 117° C (243° F).

■ NOTE: If the coolant temperature icon is constantly on, the engine will shut off if vehicle speed is reduced to 1.5 kph (0.9 MPH) or slower.

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CAUTION

At this point, take precautionary measures such as changing to loose snow terrain, shutting the engine off (allowing the engine to cool down), and checking coolant level. If unable to either determine or remedy the problem, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

Charging System Warning Icon

The Charging System Warning Icon is designed to warn the operator if the battery charging system is not functioning. The icon should illuminate each time the key is turned to RUN or START, and it should go out when the engine starts. If the icon stays illuminated or it illuminates while the engine is running, the battery is not being charged, and the snowmobile is running on battery reserve power only.

If the Charging System Warning Icon illuminates, you should, as soon as possible, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner. The engine **WILL NOT RUN** without battery power.

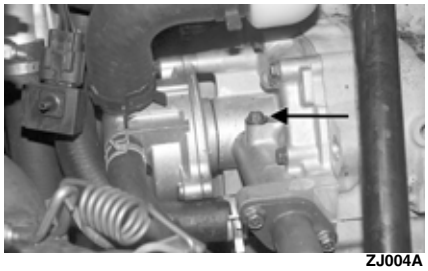
Oil Pressure Warning Icon

The Oil Pressure Warning Icon indicates engine oil pressure, not the oil level; however, if the oil level is low, it may affect oil pressure.

The icon should illuminate each time the ignition switch is turned to RUN or START, and it should go out when the engine starts. If the icon illuminates while the engine is running, oil pressure has been lost and the engine will automatically shut off.

If oil pressure is lost, use the following procedure to check the oil level:

1. With the engine off, remove the engine oil level stick and wipe it clean. Without screwing it in, set the stick back in the oil tank. Remove it and observe the oil level on the stick. If the oil level is at or below the ADD mark on the oil level stick, add only enough recommended oil to raise the level to the NORMAL range. DO NOT overfill the reservoir with oil.
2. Open the air bleed bolt located on the oil pump (beneath the coolant tank) to purge air from the oil hose.



ZJ004A

■ **NOTE: When air can no longer be heard purging from oil pump bleed, tighten the bleed bolt to 7.5 ft-lb.**

CAUTION

Do not attempt to start the engine with the bleed bolt open.

3. Start the engine. The warning icon should go out within five seconds.
4. If the warning icon does not go out, shut the engine off immediately and repeat step 2; then repeat step 3.

If the warning icon does not go out or if the engine does not start, take the snowmobile to an authorized Arctic Cat Snowmobile dealer. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

Diagnostic Codes (Bearcat Z1 XT/TZ1 Models)

Diagnostic codes are activated by the ECU and may be displayed on the readout screen for a number of reasons.

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If a code is displayed while the engine is running, the ECU is receiving input that is outside of its established parameters. If a code has been activated, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

These diagnostic codes are displayed on the readout screen incorporated within the speedometer/tachometer. Refer to the following chart for diagnostic codes.

Code	Trouble
1	Failure in the fuel system.
2	Failure in injector (PTO).
3	Failure in injector (MAG).
4	Failure in barometric pressure sensor.
5	Open or short circuit in intake manifold air temperature sensor.
6	Open or short circuit in water temperature sensor.
7	Open or short circuit in throttle position sensor.
8	Open or short circuit in manifold air pressure sensor.
9	Failure in crankshaft position sensor.
11	Failure in speed sensor.
12	Failure in coil (MAG).
13	Failure in coil (PTO).
14	Failure in ISC valve.
15	Failure in oxygen sensor.
19	Failure in camshaft position sensor.
21	Failure in knock sensor.
22*	Failure in Injector (PTO secondary).
23*	Failure in Injector (MAG secondary).
25	Failure in shifting system/gear position switch (relay).
26	Malfunction in air pressure sensor.
29	Failure in shifting system/gear selection switch (reverse button).
OCTN*	Low octane gasoline.

* Turbo models

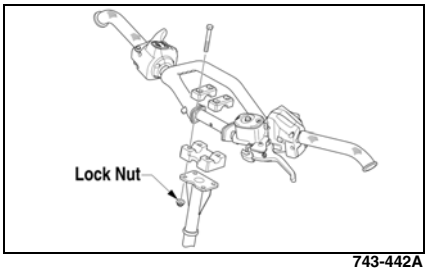
Handlebar Tilt

Bearcat Models

The handlebar can be adjusted to the position providing the operator with the most comfort. To adjust the handlebar, use the following procedure:

■ NOTE: It may be necessary to remove the handlebar cover for this procedure.

1. Loosen the four lock nuts securing the handlebar caps and block to the steering post.



743-442A

2. Adjust the handlebar to operator's desired tilt; then tighten the lock nuts evenly and securely. Check steering for maximum right/left turning capabilities.

■ NOTE: Do not adjust the handlebar to a position that allows air to enter the brake system.

3. Recheck lock nuts; tighten securely.

■ NOTE: Recommended torque value of lock nuts is 18 ft-lb.

⚠ WARNING

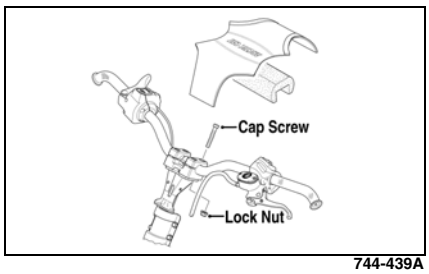
Tighten lock nuts according to specifications to prevent unexpected "movement" of the handlebar during operation over rough terrain. DO NOT position handlebar so steering (maximum right/left turning capabilities) or throttle and brake controls are affected.

T570/TZ1 Standard Models

The handlebar can be adjusted to the operator's preference. To adjust the handlebar, use the following procedure:

1. Loosen the four cap screws and lock nuts securing the handlebar caps to the riser and the riser to the steering post.

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2. Adjust the handlebar to operator's desired tilt, tighten the lock nuts/cap screws evenly to 25 ft-lb, and check steering for maximum right/left turning capabilities.

■ NOTE: Do not rotate the handlebar to a position that allows air to enter the brake system.

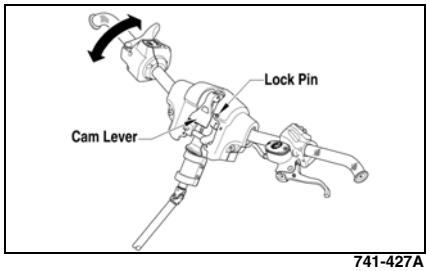
⚠ WARNING

Tighten lock nuts/cap screws according to specifications to prevent unexpected "movement" of the handlebar during operation over rough terrain. DO NOT position the handlebar so steering (maximum right/left turning capabilities) or throttle and brake controls are affected.

TZ1 LXR Models

The handlebar can be adjusted to the operator's preference. To adjust the handlebar, use the following procedure:

1. Press inward on the lock pin to release the cam lever and "flip" the cam lever up.



741-427A

2. Adjust the handlebar up or down and/or rotate the handlebar to operator's desired position; then press down on the cam lever until it "locks" in place. Check steering for maximum right/left turning capabilities.

■ NOTE: At this point, gently lift the cam lever without pressing in on the lock pin. If the cam lever cannot be lifted, the lock pin is secure.

■ NOTE: Do not rotate the handlebar to a position that allows air to enter the brake system.

3. Test the handlebar to ensure that it does not rotate within the riser block. If it does not rotate, proceed to step 4. If it does rotate, release the cam lever and rotate the cam lever clockwise; then press down on the cam lever until the lock pin is properly positioned and locked. Repeat this procedure until the handlebar is properly secured.
4. After the handlebar is "locked" in position, release the cam lever and rotate it one turn clockwise; then press down on the cam lever until it "locks" in place.

■ NOTE: At this point, gently lift the cam lever without pressing in on the lock pin. If the cam lever cannot be lifted, the lock pin is secure.

CAUTION

If at any time the lock pin will not engage into the locked position, do NOT operate the snowmobile. Take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service.

⚠ WARNING

Care must be taken to securely lock the handlebar cam lever to prevent unexpected "movement" of the handlebar during operation over rough terrain. DO NOT position the handlebar so steering (maximum right/left turning capabilities) or throttle and brake controls are affected.

Exhaust System

The exhaust system is designed to reduce noise and to improve the total performance of the engine. If any exhaust system component is removed from the engine and the engine is run, severe engine damage will result.

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Air-Intake Silencer

Used in conjunction with the fuel intake system is a specially designed air-intake silencer. The purpose of the silencer is to quiet the intake of fresh air. Since the fuel intake system is calibrated with the air-intake silencer in place, the engine must never be run with the silencer removed. Performance will not be improved if the air-intake silencer is removed. In contrast, severe engine damage will occur.

CAUTION

These snowmobiles are not designed to be operated in dusty conditions. Operating the snowmobile in dusty conditions will result in severe engine damage.

Cooling System (Bearcat Z1 XT/TZ1 Models)

These snowmobiles are equipped with a closed liquid cooling system for engine cooling. The cooling system should be inspected daily for leakage and damage. Also, the coolant level should be checked daily. If leakage or damage is detected, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

Battery (Electric Start)

It is extremely important that the battery be maintained at full charge at all times and that the battery connections be clean and tight. If charging the battery becomes necessary, refer to Battery sub-section in the Maintenance section.

CAUTION

On the Bearcat Z1 XT/TZ1 models, always turn the ignition switch key to the OFF position when the snowmobile is not being used. Leaving the ignition switch in the ON position will result in discharging the battery and possible damage to the battery.

Jump-Starting (Bearcat Z1 XT/TZ1 Models)

■ NOTE: Arctic Cat does not recommend jump-starting a snowmobile with a dead battery but rather to remove the battery, service it, and correctly charge it; however, in an emergency, it may be necessary to jump-start a snowmobile. If so, use the following procedure to carefully and safely complete this procedure.

⚠ WARNING

Improper handling or connecting of a battery may result in severe injury including acid burns, electrical burns, or blindness as a result of an explosion. Always remove rings and watches.

1. On the snowmobile to be jump-started, slide any terminal boots away.

⚠ WARNING

Any time service is performed on a battery, the following must be observed: keep sparks, open flame, cigarettes, or any other flame away. Always wear safety glasses. Protect skin and clothing when handling a battery. When servicing a battery in an enclosed space, keep the area well-ventilated.

2. Inspect the battery for any signs of electrolyte leaks, loose terminals, or bulging sides. Leaking or bulging battery cases may indicate a frozen or shorted battery.

⚠ WARNING

If any of these conditions exist, DO NOT attempt to jump-start, boost, or charge the battery. An explosion could occur causing serious injury.

3. Inspect the vehicle to be used for jump-starting to determine if voltage and ground polarity are compatible. The vehicle must have a 12-volt DC, negative ground electrical system.

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CAUTION

Always make sure the electrical systems are of the same voltage and ground polarity prior to connecting jumper cables. If not, severe electrical damage may occur.

4. Move the vehicle to be used for the jump-start close enough to ensure the jumper cables easily reach; then set and lock the brakes, shut off all electrical accessories, and turn the ignition switch OFF.

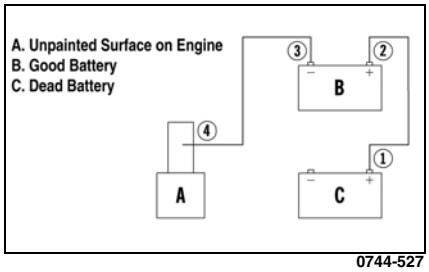
■ NOTE: Make sure all switches on the snowmobile to be jump-started are turned OFF.

5. Disconnect all external accessories such as cell phones, GPS units, and radios on both vehicles.

CAUTION

Failure to disconnect electronic accessories during jump-starting may cause system damage due to power spikes.

6. Attach one clamp of the positive (red) cable to the positive (+) terminal (1) of the dead battery (C) being careful not to touch any metal with the other clamp; then attach the other clamp of the positive (red) cable to the positive (+) terminal (2) of the good battery (B).



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■ NOTE: Some jumper cables may be the same color but the clamps or ends will be color-coded red and black.

7. Attach one clamp of the negative jumper cable (black) to the negative (-) terminal (3) of the good battery (B); then attach the other clamp of the negative (black) jumper cable (4) to an unpainted metal surface (A) on the engine or frame well away from the dead battery and fuel system components.

⚠ WARNING

Never make the final connection to a battery as a spark could ignite hydrogen gases causing an explosion of the battery resulting in acid burns or blindness.

8. Stand well away from the dead battery and start the vehicle with the good battery. Allow the vehicle to run for several minutes applying some charge to the dead battery.
9. Start the snowmobile with the dead battery and allow it to run for several minutes before disconnecting the jumper cables.
10. Remove the jumper cables in opposite order of hook-up (4, 3, 2, 1). Be careful not to short cables against bare metal.

■ NOTE: Have the battery and electrical system checked prior to operating the snowmobile again.

Drive Clutch and Driven Pulley

The drive clutch and driven pulley do not require lubrication; therefore, no special maintenance is required by the snowmobile owner except for periodical cleaning (see the Periodic Maintenance Checklist in the Maintenance section).

However, the drive clutch and driven pulley should be disassembled, cleaned, and inspected by an authorized Arctic Cat Snowmobile dealer after every 800 miles of operation or at the end of the snowmobiling season whichever occurs first. This service is at the discretion and expense of the snowmobile owner.

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When operating the snowmobile at high altitudes, it may be necessary to change certain component parts of the drive clutch and/or the driven pulley. See an authorized Arctic Cat Snowmobile dealer for further information.

CAUTION

DO NOT attempt to service the drive clutch and driven pulley. The drive clutch and driven pulley must be serviced by an authorized Arctic Cat Snowmobile dealer only.

Drive Clutch/Driven Pulley Alignment

The parallelism and the offset between the drive clutch and driven pulley are set at the factory. Normally, no adjustment is necessary as long as neither the drive clutch nor the driven pulley is removed or disassembled. However, if premature drive belt wear is experienced or if the drive belt turns over, the drive clutch/driven pulley alignment must be checked. Take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

Fuel Pump

The fuel pump is designed to provide adequate amount of gas to the carburetors (Bearcat 570/T570 models) or to the injectors (Bearcat Z1 XT/TZ1 models) at all throttle settings. If a fuel delivery problem is suspected, take the snowmobile to an authorized Arctic Cat Snowmobile dealer. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

Shock Absorbers

Standard Gas

Each shock absorber should be visibly checked weekly for fluid leakage, cracks or breaks in the lower case, or a bent plunger. If any one of these conditions is detected, replacement is necessary. Take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

■ **NOTE: When the snowmobile is operated in extremely cold weather (-23° C/-10° F or colder), a small amount of leakage may be present. Unless the leakage is excessive, replacement is not necessary.**

Rebuildable Gas - LXR Models

■ **NOTE: The presence of a FOX identifier (decal or embossed) on a shock absorber body indicates a "rebuildable" shock absorber.**

■ **NOTE: The frequency of servicing rebuildable shock absorbers will vary according to the types of conditions and terrain the snowmobile has been subjected to. If riding quality deteriorates (or seems to be deteriorating), take the snowmobile to an authorized Arctic Cat Snowmobile dealer for shock absorber evaluation and/or servicing. This service is at the discretion and expense of the snowmobile owner.**

Servicing rebuildable shock absorbers is considered normal maintenance and is the responsibility of the owner. Take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner. Kits are available to either stiffen or soften gas shock valving. If changes in shock valving are desired, see an authorized Arctic Cat Snowmobile dealer. This service is at the discretion and expense of the snowmobile owner.

Each shock absorber should be visibly checked weekly for fluid leakage, cracks or breaks in the lower case, or a bent plunger. If any one of these conditions is detected, replacement is necessary. Take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

■ **NOTE: When the snowmobile is operated in extremely cold weather (-23° C/-10° F or colder), a small amount of leakage may be present. Unless the leakage is excessive, servicing is not necessary.**

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Standard-Lug Track

Accelerated wear strip wear caused by operating on hard-packed snow conditions is NOT covered under Arctic Cat Inc. warranty policy.

Track Studs

■ NOTE: Stud or hooker plate installation will void track and tunnel warranty.

■ NOTE: Stud installation can be performed by the snowmobile owner if qualified to do so. If the owner does not feel qualified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

CAUTION

If installing studs on standard Bearcat 570 model with a single-ply track, studs with a head diameter of at least 28.6 mm (1.125 in.) must be used.

⚠ WARNING

When installing studs on a single-ply track, it is important to use Arctic Cat-approved studs (proper head diameter). If approved studs (proper head diameter) are not used, studs could tear free of the track causing possible injury or even death. Consult an authorized Arctic Cat Snowmobile dealer for information.

■ NOTE: To prevent tunnel damage from the studs, Tunnel Protector Kit (p/n 4639-771) for the Bearcat 570/ T570 models or (p/n 5639-143) for the Bearcat Z1 XT model must be installed.

For proper installation, use the following procedure:

1. Using the appropriate stud template (see chart), mark the desired stud pattern to be used.

Stud Template Chart	
Track Length	p/n
144 in.	5639-160
151 in.	5639-461
154 in.	5639-609

2. Using the proper-sized stud hole drill bit, drill out the stud holes.
3. Push the stud through the hole from inside the track; then place the domed support plate and lock nut on the exposed stud.
4. Using a wrench to secure the stud, tighten the lock nut on the exposed stud.

It is also recommended that whenever studs are installed on a track, carbide wear bars should be installed on the skis. Carbide wear bars complement the track studs to balance steering control under these conditions. The length of the carbide on the wear bars should be proportionate to the number of track studs (i.e. small number of track studs — short length of carbide...many track studs — long length of carbide). The proper proportion between the number of studs and carbide length on the wear bar will maintain steering balance.

⚠ WARNING

Always balance the snowmobile with the proper proportion between the number of studs and carbide length on the wear bars. Do not "over drive" conditions; use common sense in all operating conditions.

CAUTION

Do not use studs that are more than 9.525 mm (0.375 in.) longer than the track lug height.

⚠ WARNING

Do not operate a snowmobile with loose studs as they may be thrown from the track. Always use a shielded safety stand whenever performing any maintenance or adjustments.

⚠ WARNING

DO NOT stand behind the snowmobile or near the rotating track. NEVER run the track at high speed when the track is suspended.

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Reverse Operation

Bearcat 570/T570 Models

The engine reverse function offers the operator the convenience of being able to back up the snowmobile rather than having to turn the snowmobile around by hand. This feature, under most situations, should not be used to free a stuck snowmobile as it will tend to dig the skis deeper into the snow.

Always use minimal speed when operating in reverse and come to a complete stop before shifting from either forward to reverse or reverse to forward.

■ NOTE: Correct drive belt tension (deflection) is important for the reverse function to operate properly. If the belt is too tight, difficulty in engaging reverse will be experienced (the reverse function will make up to three attempts to engage into reverse, and if the function is not completed after the third attempt, the engine will shut down).

1. Always warm up the engine for 2-3 minutes prior to shifting into reverse.
2. Come to a complete stop.

■ NOTE: the snowmobile must be at a complete stop and the engine running under 2000 RPM before the system will allow shifting.

3. With the engine at idle (under 2000 RPM), press the reverse switch button; then release the button. The reverse selection will be complete.

■ NOTE: The system will not shift until the button is released. Also, the reverse function will cancel if operated in reverse longer than 45 seconds. Whenever the reverse function has been cancelled, the engine must be run in the forward mode for a minimum of 60 seconds at 2000 RPM before the reverse function can be used again.

4. To shift into forward, stop the snowmobile and allow the engine to idle (under 2000 RPM); then press the button and release. The forward selection will be complete.

⚠ WARNING

Use caution and minimal speed when operating the snowmobile in reverse. Be sure the button is in the desired position.

■ NOTE: An alarm will sound when the snowmobile is operated in reverse.

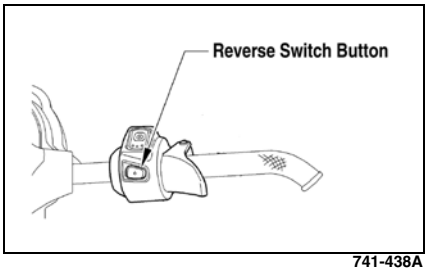
Bearcat Z1 XT/TZ1 Models

The reverse transmission function offers the operator the convenience of being able to back up the snowmobile rather than having to turn the snowmobile around by hand. This feature, under most situations, should not be used to free a stuck snowmobile as it will tend to dig the skis deeper into the snow. Always use minimal speed when operating in reverse and come to a complete stop before shifting from either forward to reverse or reverse to forward. To shift the reverse transmission, use the following procedure:

1. Come to a complete stop.

■ NOTE: The snowmobile must be at a complete stop and the engine running under 3000 RPM before the system will allow shifting.

2. With the engine at idle (under 3000 RPM), press the reverse switch button; then release the button. The reverse selection will be complete.



741-438A

■ NOTE: The system will not shift until the button is released.

3. To shift into forward, stop the snowmobile and allow the engine to idle (under 3000 RPM); then press the button and release. The forward selection will be complete.

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⚠ WARNING

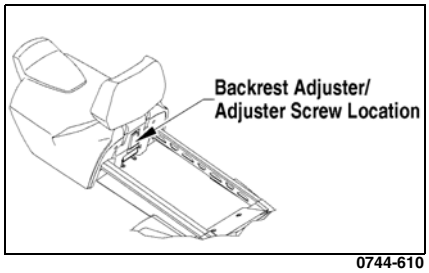
Use caution and minimal speed when operating the snowmobile in reverse. Be sure the button is in the desired position.

■ NOTE: An alarm will sound when the snowmobile is operated in reverse.

Adjustable/Movable Backrest (T570/TZ1 Models)

The backrest is designed for maximum comfort and safety. When riding double, the backrest must be in the passenger seat position.

To change the height of the backrest, pull out and down on the adjuster lever (LXR models) or loosen the adjuster screw (non-LXR models), move the backrest up or down to the desired position, and push the adjuster lever up and in (LXR models) or tighten the adjuster screw (non-LXR models) to lock the backrest in place.



0744-610

■ NOTE: To properly lock the backrest, it may be necessary to rotate the adjuster lever clockwise or counterclockwise to secure the backrest in place.

When riding single, the backrest can be moved to the forward seat position.

⚠ WARNING

Moving the backrest to the forward seat position limits the seating capacity to one person only.

To move the backrest, pull the adjuster out and down, pull the backrest up and out of the slots, slide the backrest into the slots of the seat and adjust to the desired position, and push the adjuster up and in to lock the backrest in place.

■ NOTE: If moving the backrest to the forward seat position, the passenger seat must be removed.

■ NOTE: When removing/adjusting the backrest on the standard T570/TZ1 passenger seat, loosen, but do not remove, the cap screw at the rear of seat, install/adjust the passenger seat, and tighten the cap screw securely.

Removable Rear Seat

T570/TZ1 Models

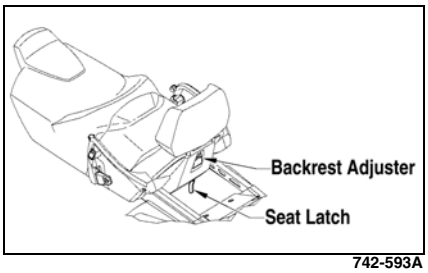
These snowmobiles are equipped with a removable rear seat to allow for additional cargo space when no passenger is being carried.

■ NOTE: If additional cargo is being added, maximum weight on the snowmobile (operator/passenger/cargo) should not exceed the maximum limitation set for each snowmobile. See the chart in the Suspension - Overload Springs sub-section in the Maintenance section for details. Also, the overload springs should be engaged.

To remove the rear seat, use the following procedure:

■ NOTE: On LXR models, the center luggage bag must be removed.

1. Rotate the seat latch either clockwise or counterclockwise and hold it in that position; then lift the seat and move it rearward far enough to access the electrical connector.



742-593A

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2. Unplug the electrical connector; then remove the seat from the tunnel.

To install the seat, use the following procedure:

1. Place the seat into position on the tunnel; then plug in the electrical connector.
2. Rotate the seat latch either clockwise or counterclockwise and hold it in that position; then slide the seat forward, allow it to settle into position, and release the latch to lock the seat securely.

⚠ WARNING

Make sure the rear seat is securely locked in place before carrying a passenger or personal injury may result.

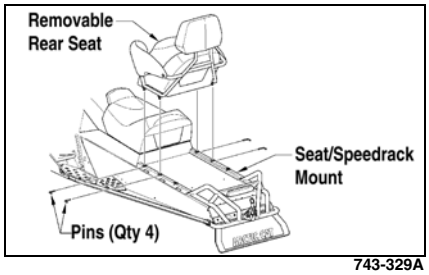
Bearcat XT Models

These snowmobiles are equipped with a removable rear seat (and on the LTD models, a removable third seat) to allow for additional cargo space when no passenger is being carried.

■ NOTE: If additional cargo is being added, maximum weight on the snowmobile (operator/passenger/cargo) should not exceed the maximum limitation set for each snowmobile. See the chart in the Suspension - Overload Springs sub-section in the Maintenance section for details. Also, the overload springs should be engaged.

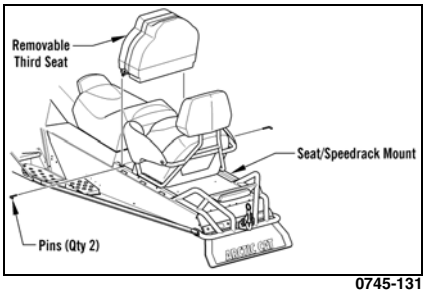
To remove the rear seat (and third seat on the LTD models), use the following procedure:

1. Remove the four pins securing the rear seat to the seat/Speedrack mount.



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■ NOTE: On the LTD models, also remove the two pins securing the third seat to the seat/Speedrack mount; then lift the third seat up and away.



0745-131

2. Lift on the back of the rear seat and move it rearward to remove it from the mount.

To install the rear seat (and on the LTD models, the third seat), use the following procedure:

1. Place the rear seat into position on the mount making sure the four pin holes are properly aligned with the mounting location on mount.
2. Install the four pins making sure they are properly seated.

■ NOTE: On the LTD models, place the third seat into position on the mount making sure the two pin holes are properly aligned with the mounting location on the mount; then install the two pins making sure they are properly seated.

⚠ WARNING

Make sure the rear seat (and on the LTD models, the third seat) is securely locked in place with the pins before carrying a passenger or personal injury may result.

Towing

If the snowmobile is to be towed by another snowmobile, do not tow using the loops in the skis. The tow rope should be attached to the spindles.

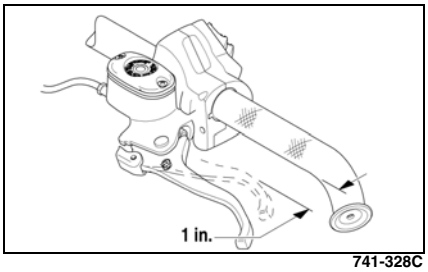
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Operating Instructions

Starting and Stopping Engine

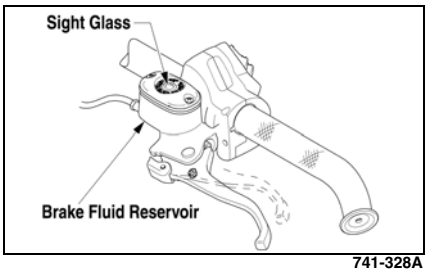
It is imperative that the brake system be checked for wear and proper operation and that all safety checks found in the accompanying Snowmobile Safety Handbook be performed before attempting to start the engine. **Also, on the Bearcat 570/T570 models, be sure the correct carburetor main jets for the operating temperature, altitude, and gasoline are being used.** After the engine has been started, check the headlights (high and low beam), taillight, and brakelight to be sure they are working properly and adjusted correctly. Make sure all lights are clean to provide maximum illumination. The headlight and taillight must be clean and must be illuminated whenever the engine is running.

1. Test the operation of the brake system by compressing the brake lever. The brake lever must feel firm when compressed; then while holding the brake lever in the compressed position, measure the distance between the brake lever and the handlebar. The distance must be greater than 2.54 cm (1 in.).



741-328C

2. Check the fluid level in the reservoir. The brake fluid level must be visible in the sight glass. Add Arctic Cat approved brake fluid as necessary.



741-328A

■ **NOTE: If the sight glass appears dark, there is a sufficient amount of fluid in the reservoir.**

⚠ WARNING

Do not start the engine if the brake system is not functioning properly. Service the brake system or have it properly repaired prior to operating the snowmobile. Serious personal injury or even death may occur if the brake system is not operating properly.

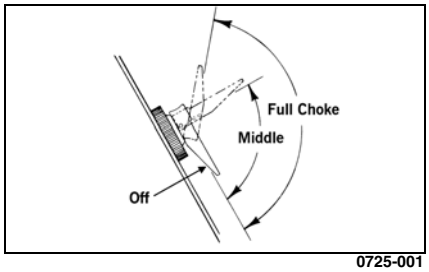
3. Test the throttle control lever by completely compressing and releasing it several times. The lever MUST return to the idle position quickly and completely.

CAUTION

On the Bearcat Z1 XT/TZ1 models, always check the coolant level before starting the engine.

4. Move the emergency stop switch to the UP or RUN position.
5. Insert key into ignition switch; then rotate key to the RUN position.
6. On the Bearcat 570/T570 models for a cold engine, move the choke lever to the full-choke position. If the engine is warm, choking is normally not necessary.

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■ **NOTE: On the Bearcat 570/T570 models when the engine is being started with aid of the choke, DO NOT COMPRESS THE THROTTLE CONTROL LEVER. If the throttle control lever is compressed, the engine will not start because the gas/air mixture will be too lean. To start a warm engine, however, the throttle control lever may have to be compressed slightly.**

■ **NOTE: On the Bearcat Z1 XT/TZ1 models when a cold engine is being started, DO NOT COMPRESS THE THROTTLE CONTROL LEVER. If the throttle control lever is compressed, the engine will not start because the fuel/air mixture will be too lean.**

7. On Bearcat 570/T570 models with manual start, pull the recoil handle slowly until resistance is felt; then give a short quick pull. Repeat until the engine starts.

■ **NOTE: In extremely cold weather, pull the recoil handle slowly two to three times to begin the starting procedure.**

CAUTION

To avoid damaging the recoil starter, DO NOT pull the recoil rope to its limit or release the recoil handle from an extended position. Allow the rope to rewind slowly.

■ **NOTE: On electric start models, rotate the key to the START position; then when the engine starts, release the key.**

CAUTION

Do not continuously run the starter for more than 5 seconds at a time.

8. On the Bearcat 570/T570 models when the engine starts, allow it to warm up for approximately 30 seconds with the choke lever in the full-choke position. After the 30-second warm-up, move the choke lever to the middle position. The choke lever should be moved to the OFF position when engine is warm. Slight throttle control lever compression may be necessary after the engine starts and during warm-up. Idle the engine several minutes until the engine has reached normal operating temperature.
9. On the Bearcat Z1 XT/TZ1 models, there is a "cold drive-away" function incorporated within the engine. This function is active until the engine reaches operating temperature (see Cold Drive-Away Function sub-section in the General Information section).

CAUTION

It is extremely important that the engine is properly warmed up before subjecting the engine to high speed operation or heavy loads. The engine should be allowed to idle at least 3-4 minutes before it is operated at more than 1/2 throttle. In extremely cold conditions, the warm-up time will be longer. Cold seizure and piston scuffing caused by insufficient warm-up will not be covered by warranty. Also, do not idle the engine for excessively long periods of time.

10. Flooding — On the Bearcat 570/T570 models if the engine does not start when the choke is being used but seems ready to start, move the choke lever to the OFF position. Engage the brake lever lock; then compress the throttle control lever fully and try to start the engine. When the engine starts, release the throttle control lever immediately. After the warm-up, release the brake lever lock.

■ **NOTE: Continued choking will cause the engine to flood more.**

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■ **NOTE: On the Bearcat 570/T570 models if the engine fails to start during the attempt with the throttle control lever compressed, remove the spark plugs and clean and dry them thoroughly or install a new set of properly gapped, recommended spark plugs.**

11. Flooding — On the Bearcat Z1 XT/TZ1 models if the engine does not start but seems ready to start, engage the brake lever lock; then compress the throttle control lever fully and try to start the engine. When the engine starts, release the throttle control lever immediately. After the warm-up, release the brake lever lock.

■ **NOTE: On the Bearcat Z1 XT/TZ1 models if spark plugs must be replaced, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for inspection and service. This service is at the discretion and expense of the snowmobile owner.**

12. To shut off the engine, turn the ignition key to the OFF position or push the emergency stop switch to the DOWN position.

CAUTION

On the Bearcat Z1 XT/TZ1 models, always turn the ignition switch key to the OFF position when the snowmobile is not being used. Leaving the ignition switch in the ON position will result in discharging the battery and possible damage to the battery.

Braking

The following items are items that the operator must be familiar with when operating this snowmobile and its hydraulic brake system. Important additional information on the proper maintenance of the brake system is found in the Maintenance section.

1. Use the brakes wisely. Each time the brakes are applied in all hydraulic brake systems (including automotive applications), heat is transferred to the brake fluid. The amount of heat transferred during high speed stops and/or repetitive use may be high enough to boil the brake fluid and cause the brakes to either fade or may cause an unexpected loss of brakes.

   If this occurs, the brake fluid requires a cool-down period before the brakes will again function properly. This cool-down period will vary depending upon the ambient air temperature and the temperature of the brake fluid. If loss of brakes has occurred because of high fluid temperatures, do not operate the snowmobile until the cool-down period has expired and brake lever firmness has returned.

⚠ WARNING

Excessive repetitive use of the hydraulic brake for high speed stops will cause overheating of the brake fluid and premature brake pad wear which will result in an unexpected loss of brakes.

2. Be sure to maintain the brake fluid at the proper level and take care not to get any moisture in the system as moisture in the brake fluid lowers the boiling point. If the brake fluid is ever boiled (by high speed stops or repetitive use) or if moisture is allowed to enter the system, it must be changed. Never substitute or mix different types or grades of brake fluid.

⚠ WARNING

Use only Arctic Cat approved brake fluid. Never substitute or mix different types or grades of brake fluid. Brake loss can result. Check brake fluid level and pad wear before each use. Brake loss can result in severe injury or even death.

3. Never ride the brake. Even maintaining minimal pressure on the brake lever will cause the brake pads to drag on the disc and may overheat the brake fluid.

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4. The brake lever lock is not a parking brake and should not be applied for periods exceeding 5 minutes. NEVER OPERATE THE SNOWMOBILE WITH THE BRAKE LEVER LOCK ENGAGED.

⚠ WARNING

The brake lever lock is not a parking brake and should not be applied for periods exceeding 5 minutes. The brake lever lock maintains the brake lever in the compressed position and maintains pressure against the brake disc; however, after a period of time, the pressure applied to the brake disc may relax below the amount required to hold the snowmobile stationary.

5. Pumping the brake lever is permissible; however, if pumping the brake lever more than twice is necessary to obtain the necessary stopping power, immediately take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.
6. When new brake pads are installed, a "burnishing" process is required. Drive the snowmobile slowly and compress the brake lever several times until the pads just start to heat up; then allow them to thoroughly cool down. This process stabilizes the pad material and extends the life of the pads.

Emergency Stopping

There are several methods of stopping or slowing the snowmobile under a variety of situations. Identified in the following chart are the ways a snowmobile may be brought to a stop and the effectiveness under normal conditions.

Item	Function	Condition
Emergency Stop Switch	interrupts ignition circuit	ALL
Throttle/Ignition Monitor Switch	interrupts ignition circuit	ALL
Ignition Switch	interrupts ignition circuit	ALL
Brake	slows the ACT drive	ALL
Choke (Bearcat 570/T570 models)	floods the engine	1/2 throttle or less

Throttle/Ignition Monitor Switch

The throttle control is equipped with a monitor switch for safety purposes which will stop the engine when a loss of return spring force occurs. If ice forms in the throttle system or if there is some other malfunction of the throttle system resulting in a loss of return spring force, the monitor switch will stop the engine when the throttle control lever is released.

⚠ WARNING

If any malfunction of the throttle system occurs (such as freezing in fluffy snow) and the monitor switch does not shut off the engine, press down on the emergency stop switch IMMEDIATELY to stop the engine. DO NOT start the engine until the malfunction in the throttle system has been located and corrected.

If the snowmobile engine stops abruptly when the throttle control lever is released and the activation of the monitor switch is suspected, use the following procedure:

1. Rotate the ignition key to the OFF position.
2. Remove ice and snow from the throttle system and wait 5-10 minutes for the engine heat to thaw ice from the throttle system.
3. Test the throttle control lever by compressing and releasing it several times. The lever MUST return to the idle position quickly and completely.

■ **NOTE: If the throttle control lever operates properly and the engine does not start, compress the throttle lever slightly (approximately 1/8 throttle) and try starting the engine. If the engine now starts and stops when the throttle lever is released, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.**

⚠ WARNING

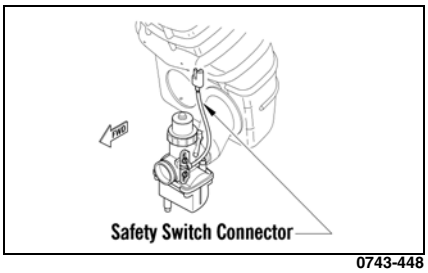
If the throttle control lever does not work properly, DO NOT ATTEMPT TO START THE ENGINE.

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4. If the throttle control lever operates properly, rotate the ignition key to the RUN position and go through normal starting procedures.

■ **NOTE: On the Bearcat 570/T570 models if the throttle control lever operates properly and the engine does not start, either a malfunctioning monitor switch or a misadjusted magnetic carburetor switch may be the problem. Take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner. However, if a dire emergency exists wherein the engine must be started, disconnect the carburetor safety switch connectors. If disconnection of the carburetor safety switch connectors is needed to start the engine, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service as soon as possible. If not under warranty, this service is at the discretion and expense of the snowmobile owner.**

■ **NOTE: On the Bearcat 570/T570 models to access the switch connectors, open the left-side access panel and remove the belt guard; then locate the switch on the left-side of the carburetor and trace the wire to the connector.**



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■ **NOTE: On the Bearcat Z1 XT/TZ1 models if the throttle control lever operates properly and the engine does not start, a malfunctioning monitor switch may be the problem. Take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner. However, if a dire emergency exists wherein the engine must be started, disconnect the throttle monitor switch located in the right-side handlebar control.**

■ **NOTE: On the Bearcat Z1 XT/TZ1 models if disconnection of the throttle monitor switch is needed to start the engine, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service as soon as possible. If not under warranty, this service is at the discretion and expense of the snowmobile owner.**

⚠ WARNING

Under no circumstances should disconnection of the throttle control wiring harness be used as a substitute for the monitor switch during normal operation of the snowmobile. Personal injury and damage could occur if the throttle system malfunctions or if the operator is unable to stop the engine in an emergency. If the snowmobile must be operated with a disconnected throttle control wiring harness, EXTREME CAUTION MUST BE TAKEN. NEVER EXCEED 10 MPH WITH THE THROTTLE CONTROL WIRING HARNESS DISCONNECTED.

■ **NOTE: The monitor switch is now bypassed. All other ignition/electrical features (ignition switch, emergency stop switch, headlight, taillight, and brakelight) will operate properly.**

Varying Altitude Operation

Operating a snowmobile at varying altitudes requires changes in performance components. These changes affect drive train components (on certain models) and carburetion components (Bearcat 570/T570 models).

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The altitude information decal is located on the belt guard of the snowmobile. On the Bearcat 570/T570 models, the information is incorporated into the Carburetor Jet Chart decal on the belt guard.

■ **NOTE: Just as important as calibrating the snowmobile for higher altitudes is recalibrating the snowmobile when going to lower altitudes. Always consult the altitude decal on the belt guard of the snowmobile.**

CAUTION
On the Bearcat 570/T570 models, carefully follow the Carburetor Jet Chart recommendations for proper altitude calibration.

■ **NOTE: Carburetion and drive train changes can be made by the snowmobile owner if qualified to do so. If the owner does not feel qualified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.**

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ACT Drive Gear Case

It is very important that the gear case be flushed and the lubricant be replaced after each season of use. Arctic Cat recommends that the flushing and replacing be done prior to off-season storage.

■ NOTE: Flushing the gear case and replacing the lubricant can be done by the snowmobile owner if qualified to do so. If the owner does not feel qualified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

To flush the gear case and replace the lubricant, use the following procedure:

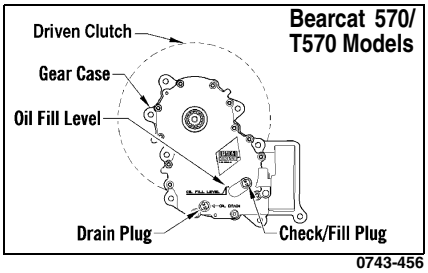
1. Open the left-side access panel; then remove the panel and the belt guard.
2. Remove the drive belt (see Drive Belt sub-section in the Maintenance section); then remove the driven pulley.

■ NOTE: If excessive oil deposits are noticed, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

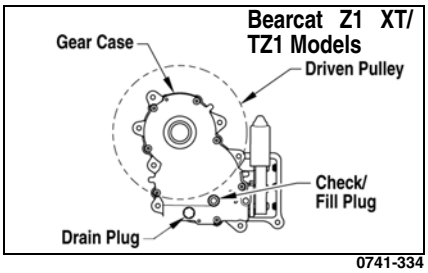
3. Using Handlebar Stand (p/n 5639-152) or a suitable substitute, tip the snowmobile onto its right side.

■ NOTE: It is recommended that the gas tank be nearly empty (less than 1/4 full) when tipping the snowmobile.

4. Remove the drain plug from the gear case; then install a drain adapter fitting with hose into the drain plug hole.



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■ NOTE: To aid in draining the lubricant, it is advisable to fashion a drain adapter by acquiring a fitting - Gear Case Drain Fitting (p/n 0644-552) - and a length of 3/8-in. hose.

5. Tip the snowmobile back to the upright position; then place a drain pan on the floor next to the drain hose and tip the snowmobile toward its left side far enough to allow the lubricant to drain from the gear case into the drain pan.

■ NOTE: It is critical that the snowmobile is on a level surface to ensure the lubricant drains properly and completely.

6. Secure the snowmobile in this position until the lubricant is completely drained.

CAUTION

It is critical that all of the old lubricant be drained from the gear case prior to flushing the gear case.

7. When the lubricant has completely drained from the gear case, tip the snowmobile back to the upright position, remove the drain adapter, and install and securely tighten the drain plug; then remove the check/fill plug.
8. Pour Arctic Cat ACT Drive Flush Fluid (p/n 4639-333) into the check/fill hole; then install the plug. Tighten securely.

CAUTION

Do not add more or less than the recommended amount (6 fl oz) of flush fluid to the gear case.

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9. Install the driven pulley; then install the drive belt (see Drive Belt subsection in the Maintenance section) and the belt guard.
10. Install the left-side access panel; then close the access panel.
11. Position the tips of the skis against a wall; then using a shielded safety stand, raise the rear of the snowmobile off the floor making sure the track is free to rotate.

⚠ WARNING

The tips of the skis must be positioned against a wall or similar object.

⚠ WARNING

DO NOT stand behind the snowmobile or near the rotating track. NEVER run the track at high speed when the track is suspended.

12. Start the engine and accelerate slightly. Use only enough throttle to turn the track several revolutions. SHUT ENGINE OFF.
13. Open the left-side access panel; then remove the panel and the belt guard.
14. Remove the drive belt (see Drive Belt sub-section in the Maintenance section); then remove the driven pulley.
15. Using Handlebar Stand (p/n 5639-152) or a suitable substitute, tip the snowmobile onto its right side.
16. Remove the drain plug from the gear case; then install the drain adapter fitting with hose into the drain plug hole.
17. Tip the snowmobile back to the upright position; then place a drain pan on the floor next to the drain hose and tip the snowmobile toward its left side far enough to allow the flush fluid to drain from the gear case into the drain pan.
18. Secure the snowmobile in this position until the flush fluid is completely drained.

CAUTION

It is critical that all of the flush fluid be drained from the gear case prior to filling with new lubricant.

19. When the fluid has completely drained from the gear case, tip the snowmobile back to the upright position, remove the drain adapter, and install and securely tighten the drain plug; then remove the check/fill plug.

CAUTION

The correct lubricant to use in the gear case is Arctic Cat Synthetic ACT Gear Case Fluid (see chart). Any substitute may cause serious damage to the drive system.

Gear Case Lubricant		
Model	**p/n**	**Amount**
Bearcat Z1 XT/ TZ1	4639-628	354 ml (12 fl oz)
Bearcat 570/T570	5639-219	444 ml (15 fl oz)

20. Pour the exact amount of Arctic Cat Synthetic ACT Gear Case Fluid into the check/fill hole; then install the plug. Tighten securely.

CAUTION

Do not add more or less than the recommended amount of lubricant to the gear case or damage to the gear case will occur. Oil level should be at the Oil Fill Level on the gear case cover.

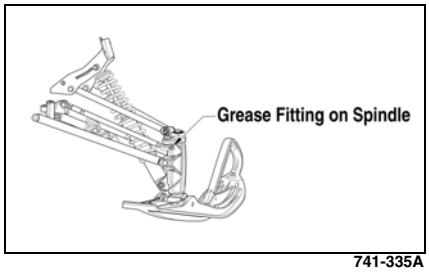
21. Install the driven pulley; then install the drive belt (see Drive Belt subsection in the Maintenance section) and the belt guard.
22. Install the left-side access panel; then close the access panel.

Front Suspension

■ **NOTE: Arctic Cat recommends that Arctic Cat All-Temp Grease (p/n 4639-365) be used for this procedure.**

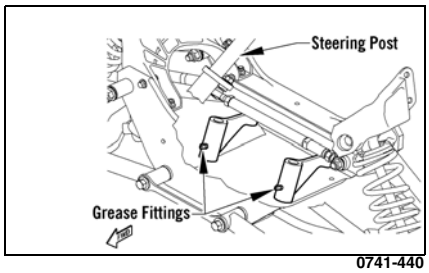
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It is very important that the front suspension is greased on a monthly basis using all-temperature grease. The front suspension should also be greased after trailering the snowmobile on an open trailer. Pump grease into the spindle grease fitting (both sides) until grease is noted coming out of the top and bottom of the spindle. Wipe excess grease from the spindle.



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Turn the handlebar to the right; then from the right side, pump grease into the steering arms until grease is noted coming out of either end of the arms. Wipe excess grease from the arms.



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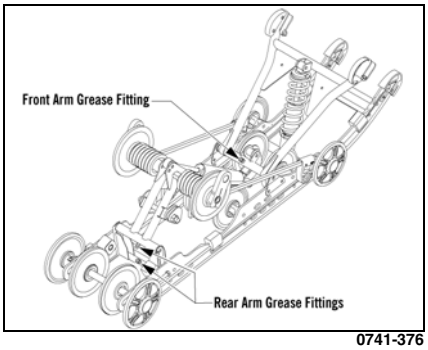
Rear Suspension

This procedure should be done every 40 operating hours.

■ **NOTE: Arctic Cat recommends that Arctic Cat All-Temp Grease (p/n 4639-365) be used for this procedure.**

■ **NOTE: Illustrated are the general locations of grease fittings. Actual locations will vary from model to model.**

1. Shut engine off and wait for all moving parts to stop.
2. With the gas tank nearly empty (less than 1/4 full) and using Handlebar Stand (p/n 5639-152) or a suitable substitute, lay the snowmobile on its left side.
3. Remove ice and snow buildup from the skid frame to expose the grease fittings.



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4. Lubricate the grease fittings with all-temperature grease.

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Maintenance

Periodic Maintenance Checklist			
Item	**Interval**	**Page**	**Remarks**
Brake System	Daily	43	Check for binding, leakage, and proper operation; lever firmness, travel, caliper, disc, and pads
Cooling System - Liquid (Bearcat Z1 XT/TZ1 Models)	Daily	15,35	Check for leakage, damage, obstructions, coolant level
Oil System	Daily	—	Check for leakage, damage, and injection/engine oil level
Engine Oil (Bearcat Z1 XT/TZ1 Non-Turbo Models)	2500 Mi/ Seasonal	34	Change oil and filter
Engine Oil (TZ1 Turbo Models)	2000 Mi/ Seasonal	34	Change oil and filter
Battery	Daily	15,40	Check for proper charge and tight connections
Stop Switch	Daily	—	Check for proper operation
Hoses	Daily	—	Check for damage, leakage, and wear
Headlight & Taillight/Brakelight	Daily	52-55	Check for proper operation and cleanliness
Steering System	Daily	—	Check for proper operation, tightness of bolts, and binding
Throttle Control System	Daily	25	Check for binding, sticking, proper operation, throttle cable tension, and wear
Drive Belt	Daily Monthly	46	Check for wear, cracks, and fraying Check length and width dimensions
Ski Wear Bars	Daily	55	Check for wear and damage
Carburetors (Bearcat 570/T570 Models)	Seasonal	36-38	Inspect/clean as necessary
Electrical Wiring	Weekly	—	Check for wear, damage, and tight connections
Exhaust System	Weekly	14	Check for damage, leakage, and obstructions
Nuts, Bolts, Fasteners	Weekly	—	Check tightness
Recoil Starter	Weekly	—	Check rope for wear, fraying, and proper operation
Shock Absorbers	Weekly	17,50	Check for fluid leakage and damage
Spark Plugs (Bearcat 570/T570 Models)	Weekly	39	Check center electrode insulator color, carbon, and gap
Valve Clearance (Bearcat Z1 XT/ TZ1 Models)	5000 Mi/ Seasonal	40	Check/adjust
Suspension	Weekly	50	Check for damage, loose components, and proper adjustment
Track Tension/Alignment	Weekly	48,49	Check/adjust as necessary
Wear Strips	Weekly	56	Check for wear and damage
Wires & Cables	Weekly	—	Check for wear, damage, and fraying
Fuel System - Tank, Pump, In-Line Filter, & Vent Hose	Weekly	—	Check for damage, wear, obstructions, and leakage
Fuel Filter (Bearcat Z1 XT/TZ1 Models)	5000 Mi/ 2 years	—	Replace
Air Silencer (Bearcat 570/T570 Models)	Seasonal	—	Inspect/Clean
Air Cleaner/Filter (TZ1 Turbo Models)	Weekly/ Seasonal	32	Check/Replace
ACT Drive Gear Case	Seasonal	28	Flush and change drive fluid prior to storage
Heat Exchangers	Monthly	—	Check for wear, leakage, and damage
Drive Clutch/Driven Pulley	Monthly	16,17	Check for damage, binding, and wear/remove drive belt, clean drive clutch/driven pulley with compressed air, and clean sheaves with suitable parts-cleaning solvent
Front & Rear Suspension	Monthly	29,30	Grease

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The longevity and safety of the snowmobile can be increased by making periodic checks of the items in the preceding checklist.

If, at any time, abnormal noises, vibrations, or improper working conditions of any component of this snowmobile are detected, DO NOT OPERATE THE SNOWMOBILE. Take the snowmobile to an authorized Arctic Cat Snowmobile dealer for inspection and adjustment or repair. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

The snowmobile should be taken to an authorized Arctic Cat Snowmobile dealer at the end of each snowmobiling season for general inspection and for off-season storage servicing. This inspection and servicing is at the expense of the snowmobile owner.

Air Cleaner/Filter (TZ1 Turbo Models)

The air filter inside the air cleaner housing must be kept clean to provide good engine power and gas mileage. If the snowmobile is used under normal conditions, inspect the filter weekly and replace the filter at the intervals specified. If operated in adverse conditions, inspect and service the filter more frequently. Use the following procedure to remove the filter and to inspect and/or replace it.

CAUTION

Failure to inspect the air filter frequently if the snowmobile is used in adverse conditions can damage the turbocharger/engine.

1. Remove the air cleaner cover; then remove the air filter.
2. Inspect the air filter for dirt or damage.

CAUTION

Do not use compressed air in an attempt to clean the filter. Damage to the filter may occur. If the filter is dirty, it must be replaced.

CAUTION

A torn air filter can cause damage to the turbocharger/engine. Contaminants may get inside the turbocharger/engine if the filter is torn. Carefully examine the filter for holes or tears. Replace the filter with a new one if it is torn.

3. Clean any debris from inside the air intake plenum.
4. Place the new filter (if necessary) into the plenum; then secure the air cleaner cover onto the plenum.

CAUTION

Do not run the engine without the air filter installed. Severe damage to the turbocharger/engine will occur.

Fuel System

⚠ WARNING

Whenever any maintenance or inspection is made on the fuel system in which there may be fuel leakage, there should be no welding, smoking, open flames, etc., in the area.

In-Line Fuel Filter (Bearcat 570/T570 Models)

Arctic Cat recommends that the in-line fuel filter be checked weekly. The in-line fuel filter is located just in front of the fuel pump inlet fitting. The filter must be clean to allow the fuel hose to transmit the amount of gasoline required.

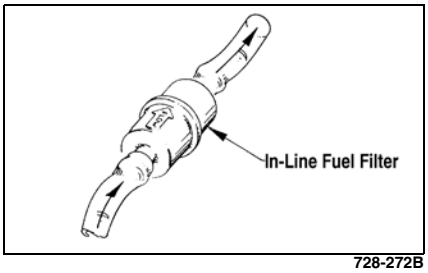
If the in-line fuel filter is obstructed, gasoline flow will be restricted; therefore, the filter must be replaced. To remove and install the in-line fuel filter, use the following procedure:

1. Pinch off the fuel hose between the gas tank and fuel filter.
2. Remove and discard the clamps; then pry the fuel hoses off the in-line fuel filter and remove the filter.

■ NOTE: The in-line fuel filter must be replaced if obstructed. Filters are available from an authorized Arctic Cat Snowmobile dealer.

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3. Install the new in-line fuel filter (if necessary) in the fuel hose so the arrow on the filter points toward the fuel pump. Make sure the fuel hoses fit tightly on the filter. If the existing fuel hose does not fit tightly on the filter, cut 6 mm (1/4 in.) from the end of the fuel hose; then install on the filter and secure with new clamps.



728-272B

⚠ WARNING

The fuel hoses must fit tightly on the fuel filter. If the fuel hose length doesn't permit this procedure, replace the fuel hose. Also, after installing the fuel hoses on the filter, check to be sure that the fuel hoses do not contact any hot or rotating components.

In-Line Fuel Filter (Bearcat Z1 XT/TZ1 Models)

Arctic Cat recommends that the in-line fuel filter be replaced every 5000 miles. The in-line fuel filter is located just inside the left-side access panel. The filter must be clean to allow the fuel hose to transmit the amount of gasoline required.

If the in-line fuel filter is obstructed, gasoline flow will be restricted; therefore, the filter must be replaced. To remove and install the in-line fuel filter, use the following procedure:

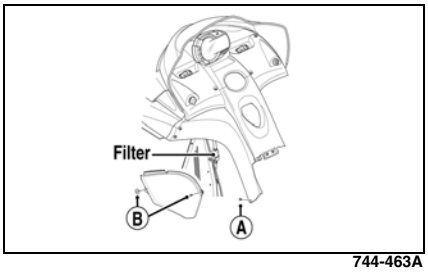
⚠ WARNING

Since the fuel supply hose may be under pressure, always wear safety glasses; then remove the hose slowly to release the pressure. Place an absorbent towel around the connection to absorb the fuel.

■ NOTE: Before removing the fuel filter, take note of the filter inlet and outlet for installing purposes.

1. Open the left-side access panel; then remove the fuel filter from the bracket.

■ NOTE: On the TZ1 Turbo models to access the fuel filter, remove the screw (A) securing the left-side rear spar to the gas tank; then remove the screws (B) securing the left-side knee pad.



744-463A

2. Remove the hose clamps and discard; then slowly remove the fuel hoses from the fuel filter. Dispose of the excess fuel from the filter properly.
3. Inspect the fuel hoses thoroughly for any signs of cracking, cuts, or wear points.
4. Place the new hose clamps on the fuel hoses; then with the fuel pump inlet and outlet noted, connect the fuel hoses to the fuel filter. Secure with the hose clamps.
5. Secure the new fuel filter to the fuel filter bracket; then start the engine and inspect the fuel hoses and filter for any signs of leaks.

Gasoline Additives

Fuel de-icer can be used for all models. Also, periodic use of an injector cleaner for Bearcat Z1 XT/TZ1 models is recommended especially in the last tank of gasoline before storage. Arctic Cat Fuel Stabilizer (p/n 0436-907) should also be added to the last tank of gasoline before storage.

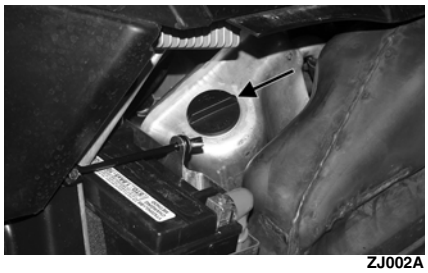
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Checking Engine Oil Level (Bearcat Z1 XT/ TZ1 Models)

1. Park the snowmobile on a level surface; then start the engine and allow it to warm up for 5-10 minutes, or if the snowmobile was operated, allow the engine to idle for approximately 30 seconds.

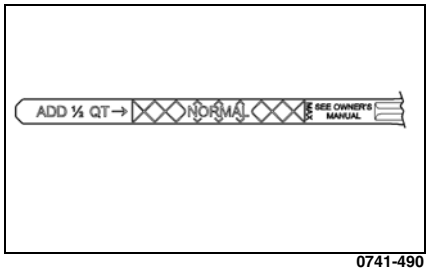
■ NOTE: The snowmobile must be on a level surface for this procedure.

2. Shut the engine off; then remove the oil level stick from the oil reservoir. Wipe the stick clean.



ZJ002A

3. Insert the oil level stick into the oil reservoir without threading it in and remove. Read the oil level shown on the stick. The oil level should be near the middle of or on the high end of the NORMAL range on the stick.



0741-490

■ NOTE: To attain an accurate oil level reading, do not thread the stick into the reservoir.

4. If step 1 was followed and the oil level is at or below the ADD mark, add up to 1/2 qt of recommended engine oil.

■ NOTE: Care must be taken not to over-fill the reservoir with oil.

5. Repeat steps 3-4 until the oil level is within the recommended range on the oil level stick.

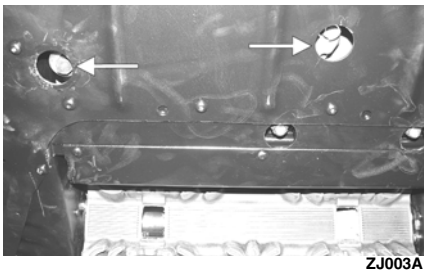
Changing Engine Oil/ Filter (Bearcat Z1 XT/ TZ1 Models)

⚠ WARNING

Care must be taken if a hot drain plug is removed by hand. Burning could occur.

■ NOTE: Recycle or properly dispose of the used engine oil.

1. Using a putty knife, remove the belly pan plug.
2. Park the snowmobile on a level surface; then start the engine and allow it to warm up for 5-10 minutes, or if the snowmobile was operated, allow the engine to idle for approximately 30 seconds.
3. Shut the engine off; then place drain pans beneath both engine oil drain plugs (crankcase and oil reservoir).



ZJ003A

4. Remove the drain plugs and allow the oil to drain completely.

■ NOTE: At this point, remove the strainer from the oil reservoir to allow the oil to drain completely.

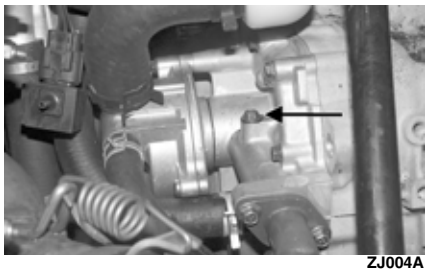
5. After the oil has drained completely, install the oil strainer, drain plugs, and washers and tighten to 16 ft-lb.

■ NOTE: Always install a new Oil Pan Drain Plug Gasket (p/n 3402-011) and a new Reservoir Drain Plug O-Ring (p/n 1670-926) when changing the oil.

6. Install a new belly pan plug.

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7. Using Oil Filter Wrench (p/n 0644-389), loosen (but do not remove) the oil filter and allow the oil to drain from the filter; then remove the filter.
8. Apply a light coat of fresh engine oil to the seal of the new oil filter.
9. Install the new oil filter by turning the oil filter by hand until the seal has contacted the oil filter mounting surface; then tighten the oil filter to 15 ft-lb.
10. Pour 2.9 l (3 U.S. qt) of the recommended engine oil into the oil reservoir.
11. Open the air bleed bolt located on the oil pump (beneath the coolant tank) to purge air from the oil hose.


ZJ004A

■ **NOTE: When air can no longer be heard purging from oil pump bleed, tighten the bleed bolt to 7.5 ft-lb.**

CAUTION

Do not attempt to start the engine with the bleed bolt open.

12. Without starting the engine, place the handlebar emergency stop switch to the RUN position and the ignition switch to the ON position. The Oil Pressure Warning Icon should illuminate.

■ **NOTE: If the warning icon does not illuminate, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.**

13. If the warning icon illuminates (from step 12), start the engine. The warning icon should go out within five seconds. If it does, proceed to step 14.

■ **NOTE: If the warning icon does not go out, shut the engine off immediately and repeat step 11; then place the ignition switch to the ON position and repeat step 13. If the warning icon does not go out, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.**

14. Shut the engine off and pour the remaining amount (0.9 l or 1 U.S. qt) of recommended oil into the oil reservoir; then proceed to the Checking Engine Oil Level (Bearcat Z1 XT/TZ1 Models) sub-section in this section to verify and finalize the procedure.

Coolant Level (Bearcat Z1 XT/TZ1 Models)

■ **NOTE: Use a good quality, ethylene glycol-based, automotive-type coolant.**

■ **NOTE: Always check the coolant level with the engine cold.**

■ **NOTE: The hood must be removed for this procedure.**

Locate the FULL COLD mark on the coolant reservoir (located in the forward engine compartment below the hood hinge bracket).

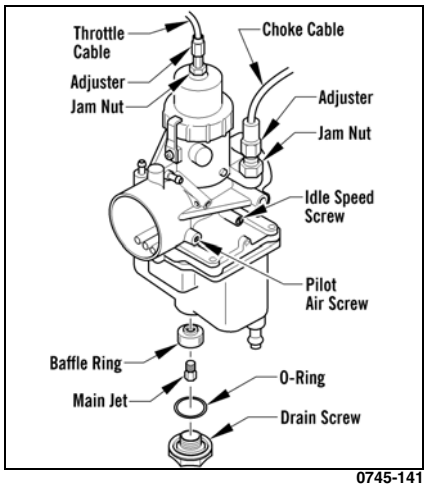
If the coolant is below the FULL COLD mark, add coolant to the reservoir until at the FULL COLD mark.

CAUTION

If the coolant is below the FULL COLD mark and if coolant has been added, immediately inspect for leakage and/or damage. If leakage or damage is detected, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

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Adjusting/Calibrating Carburetors (Bearcat 570/T570 Models)



0745-141

The carburetors have been adjusted/calibrated at the factory for average riding conditions; however, altitude, temperature, and general wear may necessitate certain carburetor adjustments.

CAUTION

For information on altitude operation, see Varying Altitude Operation sub-section in the Operating Instructions section.

Carburetor adjustments critically affect engine performance; therefore, the following three external adjustments and two internal calibrations can be made on each carburetor.

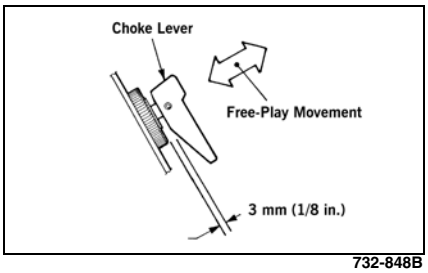
CAUTION

Make sure to perform these adjustment/calibration procedures on both carburetors.

■ NOTE: The following external carburetor adjustments may be done by the snowmobile owner if qualified to do so. If the owner does not feel qualified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

Adjusting Choke Cable (External)

1. Be sure the ignition switch key is in the OFF position and the brake lever lock is set.
2. Slide the insulators away from the adjusters; then loosen the jam nut securing each choke cable adjuster. Rotate each choke cable adjuster clockwise until free-play is noted in the choke lever.
3. Slowly rotate one choke cable adjuster counterclockwise while checking the choke lever for free-play. As soon as all free-play has been removed from the end of the lever, stop rotating the adjuster.
4. With free-play removed from the lever, slowly rotate each choke cable adjuster once again clockwise while checking the choke cable lever for free-play. Adjust until 3 mm (1/8 in.) free-play between front bottom edge of lever and housing is attained. Securely tighten the adjuster jam nut; then slide the insulators onto the adjusters.



732-848B

■ NOTE: If a carburetor choke cable is adjusted too tight when the engine reaches operating temperature, the air/fuel mixture will be incorrect and the engine will idle poorly and may operate only on one cylinder.

Synchronizing Throttle Cable/Piston Valves (External)

1. Remove the air-intake silencer boots from the silencer to access the intake bores.
2. Rotate the idle speed screws counterclockwise until all spring tension is removed.

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3. Slide the insulators away from the adjusters; then loosen the jam nut securing each throttle cable adjuster. Rotate each adjuster clockwise until each piston valve bottoms in the piston valve bore.
4. In turn on each carburetor, place a finger lightly against the side of the piston valve; then rotate the carburetor adjuster counterclockwise until slight upward movement of the valve is noted.
5. Check to make sure the valves start to open at the exact same moment by placing a thumb and finger against the valves; then lightly compress the throttle lever.

■ NOTE: If an individual piston valve starts to open before another, rotate the adjuster on the valve which is lifting first clockwise, just enough to synchronize the valves. Recheck by repeating steps 2-5.

6. With the piston valves synchronized, tighten the adjuster jam nuts securely; then slide the insulators onto the adjusters.

■ NOTE: There must be free-play in the throttle lever.

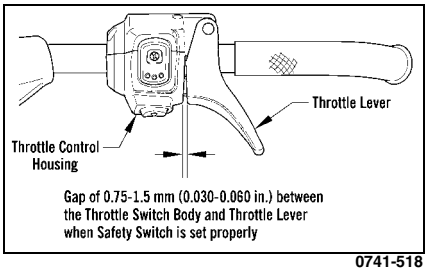
⚠ WARNING

Be sure to tighten the adjuster jam nuts securely. If an adjuster jam nut is not tightened, the adjuster can rotate out of the carburetor cap causing the piston valve not to return to the full-closed position.

7. In turn on each carburetor, place a finger against the piston valve. Rotate the idle speed screw clockwise until it contacts the valve.
8. Compress the throttle lever to the full-open position; then rotate each idle speed screw clockwise 2 complete turns. Release the throttle lever.

■ NOTE: There must be 0.75-1.5 mm (0.030-0.060 in.) free-play between the throttle lever and the control housing.

9. At this point, there must be 0.75-1.5 mm (0.030-0.060 in.) of cable free-play gap in the throttle lever. If there is no cable free-play in the throttle lever, the throttle safety switches will not function properly, and the engine will cut out in the idle position.



0741-518

■ NOTE: If cable free-play gap is not correct, rotate each adjuster an equal amount until recommended free-play is achieved. Each piston valve must be resting against the tip of its idle speed screw.

■ NOTE: If throttle cable free-play is incorrect, the carburetor safety switches will be activated prematurely and the engine will not start.

Fine-Tuning Pilot Air Screws and Idle Speed Screws (External)

1. While counting the rotations, carefully rotate the pilot air screws clockwise until lightly seated.

CAUTION

Do not force a pilot air screw when rotating it clockwise; damage to the pilot air screw needle tip will result.

2. Rotate the pilot air screws counterclockwise the exact number of rotations ± 1/4 turn from the seated position as an initial setting.
3. Install the air-intake silencer boots taking care that the boots are properly positioned and that the boots are not "folded" in the air-intake silencer causing a restriction of air flow.
4. With the snowmobile on a shielded safety stand, start the engine, release the brake lever lock, and thoroughly warm up.

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⚠ WARNING

DO NOT stand behind the snowmobile or near the rotating track. NEVER run the track at high speed when the track is suspended.

■ NOTE: Make engine idle adjustment only after the engine has reached running temperature. Since the idle speed screws have not been fine-tuned, slight throttle pressure may be necessary to keep the engine running. Allow engine to warm up for 2-3 minutes.

5. After the engine has been thoroughly warmed up, fine-tune the pilot air screws (equally) and the idle speed screws (equally) until the engine runs smoothly.

■ NOTE: Engine idle should be within a range of 1600-1700 RPM.

⚠ WARNING

If a tachometer is not available, care must be taken not to adjust engine idle speed too high.

CAUTION

It is important that the pilot air screws are adjusted equally and that the idle speed screws are adjusted equally.

6. Test the throttle control lever by compressing and releasing it several times. The lever must return to the idle position quickly and completely.

⚠ WARNING

DO NOT operate the snowmobile when any component in the throttle system is damaged, frayed, kinked, worn, or improperly adjusted. If the snowmobile is operated when the throttle system is not functioning properly, personal injury could result.

Calibrating Main Jets/ Pilot Jets/Jet Needle E-Clips (Internal)

Altitude, temperature, and the use of oxygenated gasoline affect the carburetion needed for optimum engine performance. The carburetor main jets must be changed in conjunction with changes in operating altitude, oxygenated gasoline usage, and temperature. Also, the pilot jets and jet needle E-clip positions may have to be changed with changes in operating altitude. To change pilot jets and E-clip positions, the carburetors must be removed and disassembled (float chamber, etc.). Arctic Cat highly recommends that this service be done by an authorized Arctic Cat Snowmobile dealer only.

CAUTION

For information on altitude operation, see Varying Altitude Operation sub-section in the Operating Instructions section.

■ NOTE: The following internal carburetor calibrations may be done by the snowmobile owner if qualified to do so. If the owner does not feel qualified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

As the ambient temperature rises or as the snowmobile is operated at a higher altitude, the main jets must be replaced with leaner main jets. The original equipment (production) main jets may need to be changed (depending on the type of gasoline you are using, your operating altitude, and temperature). A Carburetor Jet Chart decal is located on the belt guard of the snowmobile. It should be noted that when selecting the proper main jets, it is better to be too rich rather than too lean. To change carburetor main jets, use the following procedure:

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■ **NOTE: Refer to Illustration 0745-141 in this sub-section for location of components.**

⚠ WARNING

Whenever any maintenance is performed on the fuel system, there should be no welding, smoking, open flames, etc., in the area.

CAUTION

Use only GENUINE Mikuni brass main jets. Also, if using an oxygenated gasoline (up to 10% ethanol or up to 15% MTBE), the carburetor main jet must be one size larger than the main jet required for regular unleaded gasoline.

CAUTION

A main jet which is too small will cause severe engine damage. Engine damage caused by lean jetting WILL NOT BE covered by Arctic Cat Inc. warranty policy.

1. Loosen each carburetor flange clamp and remove each carburetor from the intake flange and boot.
2. Remove each drain screw and O-ring from the carburetor float chamber and drain the gas into a small container or shop towels.
3. Using the main jet wrench (from the tool kit), thread the main jet out of each carburetor. Account for the baffle ring. Install the new main jet and the existing baffle ring. Tighten the main jet securely.
4. Install each drain screw and O-ring; then tighten securely.
5. Install and secure the carburetors.

Spark Plugs

Bearcat Z1 XT/TZ1 Models

■ **NOTE: If spark plugs must be replaced, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for inspection and service. This service is at the discretion and expense of the snowmobile owner.**

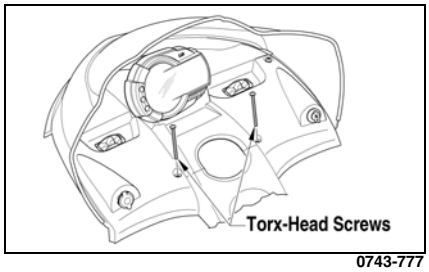
Bearcat 570/T570 Models

■ **NOTE: Always use the recommended spark plugs in the engine. See the appropriate specifications chart for correct spark plug gap.**

Varying terrain conditions and operating usage may require spark plugs of a different heat range. For example, sustained cross-country riding will usually require colder heat-range spark plugs while trail riding or other continual slow speed operation will usually require hotter heat-range spark plugs.

Removing/Installing Spark Plugs

1. Remove the two torx-head screws securing the console.



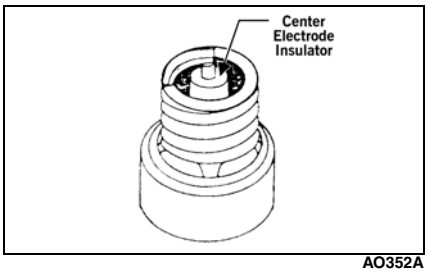
0743-777

2. Lift the rearward end of the console and disconnect the main/hood harness connector; then remove the console.
3. Remove the spark plug caps from the plugs.
4. Using a spark plug wrench, remove the plugs.
5. Install the plugs and finger-tighten.
6. Tighten the spark plugs to 19 ft-lb; then install the spark plug caps.
7. Place the console into position on the headlight support bracket keeping the rearward end slightly elevated; then connect the main/hood harness connector.
8. Lower the rearward end of the console into position; then install the two torx-head screws. Tighten securely.

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Checking Spark Plugs

To see if the spark plugs being used are of the proper heat range (after the snowmobile has been operated under normal driving conditions), remove the spark plugs and examine the condition of the center electrode insulator of each spark plug.



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A. TAN or LIGHT BROWN insulator indicates correct spark plugs (heat range).

B. LIGHT GRAY or WHITE insulator indicates over-heating of the engine. This condition is caused by a too lean condition or incorrect spark plugs (heat range too hot).

C. BLACK insulator indicates fuel in the combustion chamber is not burning completely. This condition is caused by a too rich condition, too much oil, or incorrect spark plugs (heat range too cold).

■ NOTE: If the center electrode insulators are light gray, white, or black and if the carburetor adjustments, oil-injection pump synchronization, and ignition timing are correct, different heat-range spark plugs may be necessary. Authorized Arctic Cat Snowmobile dealers have detailed spark plug information. Consult a dealer before changing spark plugs, as incorrect heat-range spark plugs could cause poor engine performance or engine damage.

CAUTION

If a spark plug is light gray, white, or black and another is tan or light brown, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for inspection and service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

Checking/Adjusting Valve Clearance (Bearcat Z1 XT/TZ1 Models)

After 5000 miles or prior to seasonal storage, valve clearance should be checked and adjusted as necessary.

■ NOTE: Take the snowmobile to an authorized Arctic Cat Snowmobile dealer for inspection and service. This service is at the discretion and expense of the snowmobile owner.

CAUTION

It is critical that the checking/adjusting valve clearance be done at the recommended intervals or severe engine damage may occur.

Battery (Electric Start)

These standard and sealed batteries after being in service require regular cleaning and recharging in order to deliver peak performance and maximum service life. The following procedures are recommended for cleaning and maintaining standard and sealed batteries. Always read and follow instructions provided with battery chargers and battery products.

■ NOTE: Battery maintenance may be done by the snowmobile owner if qualified to do so. If the owner does not feel qualified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

To remove and charge the battery, use the following procedure:

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⚠ WARNING

Any time service is performed on a battery, the following must be observed: Keep sparks, open flame, cigarettes, or any other flame away. Always wear safety glasses. Protect skin and clothing when handling batteries. When servicing battery in enclosed space, keep the area well-ventilated. Make sure battery venting is not obstructed.

⚠ WARNING

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and reproductive harm. Wash hands after handling.

1. Remove the negative battery cable; then remove the positive cable and on the standard battery, the battery vent tube. Remove the battery from the snowmobile. Care should be taken not to damage the vent tube.

⚠ WARNING

Avoid spillage and contact with skin, eyes, and clothing.

CAUTION

Do not charge the battery while it is in the snowmobile with the battery terminals connected.

2. Thoroughly wash the battery with soap and water.

■ NOTE: If battery posts or cable ends have a build-up of white/green powder residue, apply water and baking soda to neutralize acid; then flush off with warm soapy water.

3. Using a wire brush, clean the battery posts and cable ends removing all corrosive buildup. Replace damaged cables or cable ends.
4. On a standard battery, add clean distilled water to bring fluid level to the UPPER level line.

CAUTION

Do not remove seal strip on a sealed battery.

⚠ WARNING

Battery acid is harmful if it contacts eyes, skin, or clothing. Care must be taken whenever handling a battery.

CAUTION

Never use electrolyte (sulfuric acid) to "top off" the battery. Use only distilled water or severe battery damage may occur.

5. Using a multimeter, test the battery voltage. The meter must read no less than 12.5 DC Volts for a fully charged battery.

■ NOTE: At this point if the meter reads as specified, the battery may be returned to service (see step 9).

6. If the meter reads less than specified voltage, charge the battery using the following guidelines.
   A. When using an automatic battery charger, always follow the charger manufacturer's instructions.
   B. When using a constant-current battery charger, use the following Battery Charging Chart.

CAUTION

Never exceed the standard charging rate.

⚠ WARNING

An overheated battery could explode causing severe injury or death. Always monitor charging times and charge rates carefully. Stop charging if the battery becomes very warm to the touch. Allow it to cool before resuming charging.

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Battery Charging Chart (Constant-Current Charger)		
Battery Voltage (DC)	Charge State	Charge Time Required (at 1.5-2.0 Amps)
12.5 (minimum)	100%	None
12.2-12.4	75%-99%	3-6 hours
12.0-12.2	50%-74%	5-11 hours
11.0-11.9	25%-49%	13 hours (minimum)
11.5 or less	0-24%	20 hours (minimum)

■ **NOTE: If the battery voltage is 11.5 DC Volts or less, some chargers may "cut off" and fail to charge. If this occurs, connect a fully charged booster battery in parallel (positive to positive and negative to negative) for a short period of time with the charger connected. After 10-15 minutes, disconnect the booster battery leaving the charger connected and the charger should continue to charge. If the charger "cuts off," replace the battery.**

7. After charging the battery for the specified time, remove the battery charger and allow the battery to sit for 1-2 hours.
8. Connect the multimeter and test the battery voltage. The meter should read no less than 12.5 DC Volts. If the voltage is as specified, the battery is ready for service.

■ **NOTE: If voltage in step 8 is below specifications, charge the battery an additional 1-5 hours; then retest. Recheck electrolyte level (standard battery) and the battery is ready for service.**

9. Place the battery into position in the snowmobile; then coat the battery posts and cable ends with a light coat of multi-purpose grease.

CAUTION

Before installing the battery, make sure the ignition switch is in the OFF position.

10. Connect the battery cables (positive cable first).

CAUTION

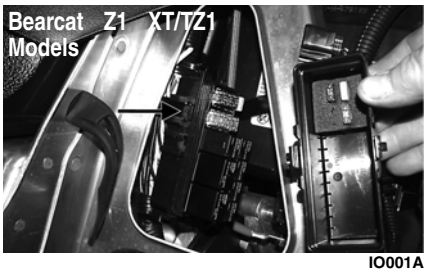
Connecting cables in reverse (positive to negative and negative to positive) can cause serious damage to the electrical system.

Fuses

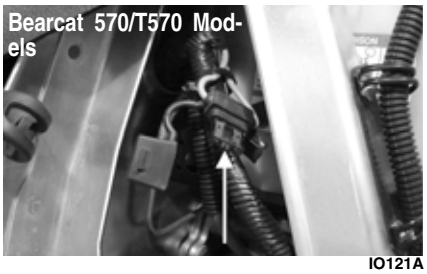
Fuses protect the snowmobile electrical system from overloading. If electrical parts in the snowmobile are not working, the system may have been overloaded and caused a blown fuse. Before repairing or replacing any electrical part, check the appropriate fuses. If a fuse blows (opens a circuit), all the parts of the snowmobile that use that circuit will not work.

Once which fuse to check has been determined, perform the following steps:

1. Open the right-side access panel; then on the Bearcat Z1 XT/TZ1 models, remove the fuse panel cover (the fuse panel is located behind the battery). On the Bearcat 570/T570 models, remove the fuse holder cover and disconnect the fuse.



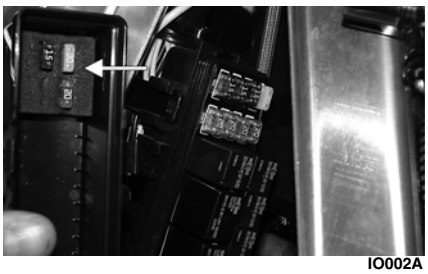
IO001A



IO121A

■ **NOTE: On the Bearcat Z1 XT/TZ1 models, there are spare fuses inside the fuse panel.**

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IO002A

2. Remove the suspected fuse.
3. Look through the clear side of the fuse to see if the metal wire inside is separated. If it is, the fuse is blown and should be replaced with a fuse of the correct amperage rating.

⚠ WARNING

Always replace a fuse with one having the same specified amperage rating. Using a fuse with a higher rating can cause severe wire damage and could start a fire.

4. On the Bearcat Z1 XT/TZ1 models, install the fuse panel cover and close the right-side access panel. On the Bearcat 570/T570 models, install the fuse holder cover.

Even after replacing a fuse, it may continue to blow if the cause of the overload is not determined. If the fuse continues to blow, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

Brake System

Arctic Cat recommends that the brake system (brake lever, fluid reservoir, hose, caliper, pads, and brake disc) be checked daily for fluid leakage, wear, or damage and for proper operation. Also, the brake fluid level must be checked every time before starting the engine. The brake fluid must be visible in the sight glass.

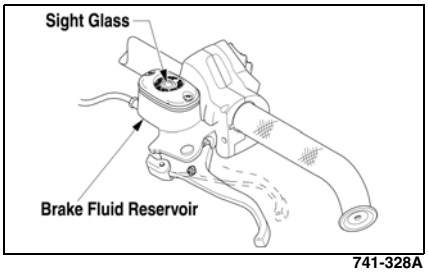
⚠ WARNING

DO NOT operate the snowmobile when the brake lever lock is engaged or when any component in the brake system is damaged, worn, or adjusted improperly. If the snowmobile is operated and the brake system is not functioning properly, severe personal injury could result.

Checking/Adding Brake Fluid

1. With sight glass reservoir in a level position, check the fluid level. The brake fluid level must be visible in the sight glass.

■ NOTE: If the sight glass appears dark, there is a sufficient amount of fluid in the reservoir.



741-328A

2. If the brake fluid is not visible in the sight glass, remove the reservoir cover and add Arctic Cat approved brake fluid until the fluid is at the recommended level. Install and secure the reservoir cover. Do not allow moisture to contaminate the brake system.

CAUTION

Brake fluid is highly corrosive. Do not spill brake fluid on any surface of the snowmobile.

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⚠ WARNING

Do not overfill the brake fluid reservoir. Overfilling the reservoir may cause the brake system to hydraulically lock. Use only Arctic Cat approved brake fluid. Never substitute or mix different types or grades of brake fluid. Brake loss can result. Brake loss can result in severe injury or even death.

Changing Brake Fluid

The brake fluid must be changed on a regular basis and whenever the brake fluid has been overheated or contaminated. The brake fluid should be changed every 1000 miles or at the end of the snowmobiling season, whichever occurs first. Take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

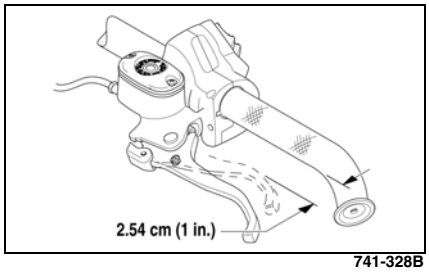
Checking Brake Lever Travel

Before each use, check the brake lever travel using the following procedure:

1. Compress the brake lever fully.

■ NOTE: Do not pump the brake lever as it will produce an inaccurate reading.

2. Measure the distance between the brake lever and the handlebar. The distance must be greater than 2.54 cm (1 in.).



741-328B

3. If the resultant distance is less than specified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for service. If not under warranty, this service is at the discretion and expense of the snowmobile owner.

⚠ WARNING

Do not operate the snowmobile if the compressed distance between the brake lever and the handlebar is less than 2.54 cm (1 in.). Brake loss may occur. Brake loss can result in severe personal injury.

Bleeding Brake System

If the brake lever feels spongy when applied, the brake system may need to be bled. To bleed the brake, use the following procedure:

■ NOTE: The brake system may be bled by the snowmobile owner if qualified to do so. If the owner does not feel qualified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

1. Remove the reservoir cover and fill the reservoir with Arctic Cat approved brake fluid.

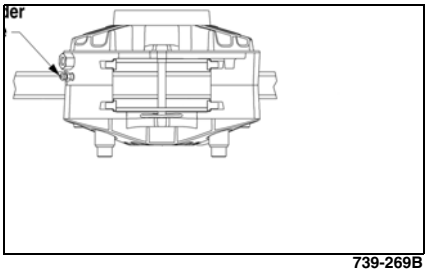
CAUTION

Brake fluid is highly corrosive. Do not spill brake fluid on any surface of the snowmobile.

⚠ WARNING

Use only Arctic Cat approved brake fluid. Any substitute may result in a loss of brakes.

2. Slide a piece of flexible tubing over the ball of the bleeder valve and direct the other end into a container.



739-269B

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3. Slowly compress the brake lever and hold. Open the bleeder valve to release the fluid and air. When the fluid stops, close the bleeder valve; then release the brake lever.
4. Repeat step 3 until the brake fluid flows free of air bubbles.

■ NOTE: It may be necessary to refill the reservoir during the bleeding process.

5. When the brake fluid is free of all air and the brake lever feels firm when compressed, fill the reservoir; then install and secure the cover. Remove the tube from the bleeder valve.

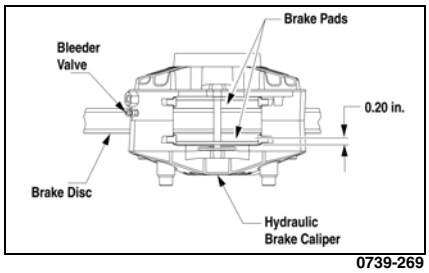
Checking/Changing Brake Pads

The condition of the brake pads must be checked daily and changed if worn or damaged. To check and change the brake pads, use the following procedure:

■ NOTE: The brake pads may be changed by the snowmobile owner if qualified to do so. If the owner does not feel qualified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

■ NOTE: When installing new brake pads, always install them as a set. Never install just one pad or use brake pads which have been used in another snowmobile.

1. Measure the thickness of both brake pads. The brake pad thickness must be greater than 5.0 mm (0.20 in.). If the brake pad thickness is less than specified, replacement of both pads is necessary.



0739-269

2. Remove the pin/hairpin clip securing the brake pads to the caliper assembly.
3. Remove the brake fluid reservoir cover; then remove most of the brake fluid from the reservoir. Install the cover.

■ NOTE: The above procedure will allow room for the fluid from the caliper when the pistons are pushed into the caliper for installing new brake pads. Replacing the cover will prevent fluid spillage.

4. Using a pair of pliers, pull one brake pad out of the caliper assembly.

■ NOTE: Changing one pad at a time will prevent one piston from pushing out the other piston from the caliper.

5. Using a flat-blade tool, slowly and carefully push the piston into the caliper.
6. Position the new brake pads into the caliper.
7. Repeat steps 4-6 for the other pad; then secure the pads with the pin/hairpin clip.
8. Remove the reservoir cover and remove the remaining fluid; then fill the reservoir with fresh fluid and install the cover.
9. Pump the brake lever to ensure correct positioning of the brake pads; then release.
10. Remove the reservoir cover and fill the reservoir to the proper level with fresh brake fluid; then install the cover.

■ NOTE: When new brake pads are installed, a "burnishing" process is required. Drive the snowmobile slowly and compress the brake lever several times until the pads just start to warm up; then allow them to cool down. This procedure stabilizes the pad material and extends the life of the pads.

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Drive Belt

The drive belt transfers power from the drive clutch to the driven pulley. If the belt is worn, cracked, or stretched, maximum power will not be transmitted and the belt could also fail and therefore must be replaced. Periodic checks (at least once a month under normal usage) of two drive belt specifications are essential.

1. Measure the outside circumference of the drive belt. The belt should be within the recommended range in circumference.
2. Measure the outside width of the drive belt. The belt should be within the recommended range in width.
3. Check the belt for cracking, fraying, etc.

If any of the specifications or conditions are unsatisfactory, replace the drive belt.

■ NOTE: Drive belts should be purchased from an authorized Arctic Cat Snowmobile dealer, as Arctic Cat drive belts are made to exact specifications and of quality material. Belts made by other manufacturers may not be of the same specifications or quality and, therefore, usage could result in poor performance and premature belt failure.

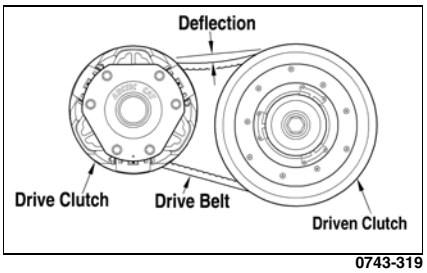
■ NOTE: Before starting the snowmobile in extremely cold temperatures, the drive belt should be removed and warmed up to room temperature. Once the drive belt is at room temperature, install the drive belt.

Also, new drive belts have a break-in period of approximately 25 miles. After installing a new drive belt, drive the snowmobile for 25 miles at 3/4 throttle or less. By revving the engine up and down (but not exceeding 60 mph), the exposed cord on the side of a new belt will be worn down.This will allow the drive belt to gain its optimum flexibility and will extend drive belt life.

CAUTION

Never run the engine with the drive belt removed. Excessive revving of the engine could result in serious engine damage and drive clutch failure.

Checking/Adjusting Drive Belt Deflection



0743-319

The drive belt must have the proper fit in the drive clutch and driven pulley. To check for proper drive belt fit, use the following procedure.

1. Place a straightedge on the top of the drive belt. The straightedge should reach from the drive clutch to the top of the driven pulley.

■ NOTE: Make sure the drive belt is all the way out in the driven pulley before checking drive belt fit.

2. Using a stiff ruler centered between the drive clutch and driven pulley, push down on the drive belt just enough to remove all slack and note the amount of deflection. The deflection should be within the range of 28.5-31.8 mm (1 1/8-1 1/4 in.).
3. To correct drive belt deflection, remove the sheave adjuster from the pulley, remove or add shim washers to the adjuster, and install the adjuster.

■ NOTE: Adding shim washers will decrease belt deflection and removing shim washers will increase belt deflection. Available shim washers from Arctic Cat are p/n 0648-714 (0.090 in.) - one included in the tool kit, p/n 0648-715 (0.030 in.), and p/n 0648-716 (0.060 in.).

■ NOTE: Removing/adding shim washers may be done by the snowmobile owner if qualified to do so. If the owner does not feel qualified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

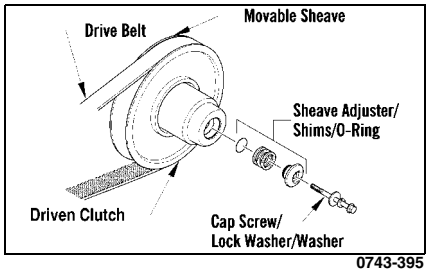
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Removing Drive Belt

■ NOTE: Changing a drive belt can be done by the snowmobile owner if qualified to do so. If the owner does not feel qualified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

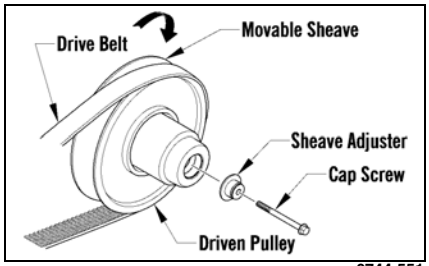
1. Turn ignition key to the OFF position and wait for all moving parts to stop.
2. Set the brake lever lock.
3. Open the left-side access panel; then remove the belt guard.
4. Remove the cap screw, lock washer, washer, and sheave adjuster from the end of the driven pulley.

■ NOTE: Assure that the shims and O-ring are not removed from the adjuster.



0743-395

5. Remove the cap screw (w/lock washer and washer) from the adjuster, remove the washer and lock washer from the cap screw, turn the adjuster around (reverse it), and insert the cap screw into the adjuster.



0744-551

6. Install the sheave adjuster and cap screw onto the driven pulley; then tighten the cap screw until the movable sheave opens far enough to allow the belt to be removed.

■ NOTE: Before installing the drive belt, use a suitable cleaning solvent to thoroughly clean the sheaves.

7. Remove the drive belt from the driven pulley first; then from the drive clutch.

Installing Drive Belt

■ NOTE: If a new drive belt is being installed, see Drive Belt Break-In sub-section in the General Information section.

1. Place the drive belt (so the part number can be read) between the sheaves of the drive clutch first; then between the sheaves of the driven pulley.
2. Remove the sheave adjuster and install it in its original position (beveled side out); then install the cap screw, lock washer, washer, and sheave adjuster back into the driven pulley. Tighten the cap screw to 32 ft-lb.

CAUTION

Do not apply Loctite to the driven pulley cap screw or component damage may occur.

3. Install the belt guard; then close the left-side access panel.

⚠ WARNING

Never operate the snowmobile without the belt guard/access panel secured in place.

4. Release the brake lever lock.

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Track Tension

Track tension is directly related to the overall performance of the snowmobile. If the track is too loose, it may slap against the tunnel causing wear or it may "ratchet" on the track drive sprockets. If extremely loose, the idler wheels may climb over the track lugs forcing the track against the tunnel causing the track to "lock." Arctic Cat recommends that the track tension be checked daily during the first 300 miles of operation and once a week thereafter and adjusted according to need. The track will stretch and take a "set" during break-in. Track deflection must be maintained within the recommended range.

⚠ WARNING

Track tension must be properly maintained. Personal injury could result if a track is allowed to become excessively loose.

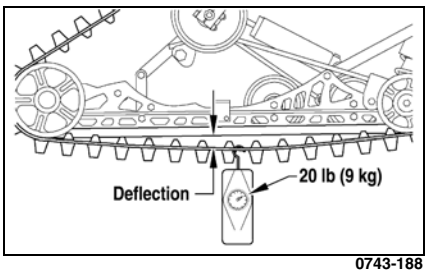
Checking Track Tension

⚠ WARNING

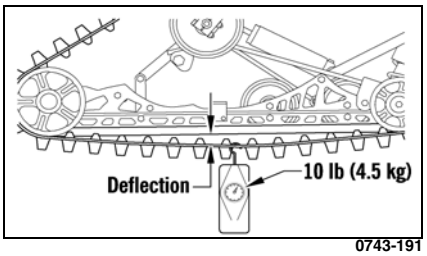
DO NOT attempt to check or adjust track tension with engine running. Turn ignition key to the OFF position. Personal injury could result from contact with a rotating track.

1. Remove excess ice and snow buildup from the track, track drive sprockets, and the inside of the skid frame.
2. Elevate the snowmobile on a shielded safety stand high enough to use a spring scale.
3. At mid-point of the track (on the bottom side), hook a spring scale around a track clip; then pull down on the scale to the recommended pressure. Measure the deflection (distance) between the bottom of the wear strip and the inside surface of the track clip. Compare the measurement with the chart.

Model	Setup Tension	After Break-In Tension
Bearcat 570/T570/TZ1 Models @ 20 lb	44-51 mm (1 3/4-2 in.)	51-57 mm (2-2 1/4 in.)
Bearcat XT Models @ 10 lb	44-51 mm (1 3/4-2 in.)	44-51 mm (1 3/4-2 in.)



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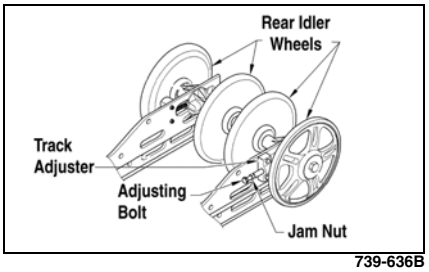


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Adjusting Track Tension

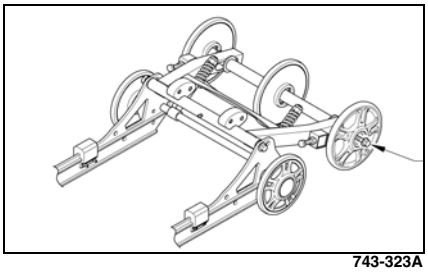
■ NOTE: To ensure proper track tension adjustment, perform all adjustments on both sides of the snowmobile.

1. Loosen the rear idler wheel adjusting bolt jam nuts.



739-636B

■ NOTE: On the Bearcat XT models, the rear axle cap screws must also be loosened.



743-323A

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2. If the deflection (distance between the bottom of the wear strip and the inside of the track) exceeds specifications, tighten the adjusting bolts to take up excessive slack in the track.
3. If the distance between the bottom of the wear strip and the inside surface of the track is less than specified, loosen the adjusting bolts to increase the slack in the track.
4. Check track alignment (see Track Alignment sub-section in this section).
5. When proper track tension is obtained, tighten the adjusting bolt jam nuts against the axle housings.

■ NOTE: On the Bearcat XT models, tighten the rear axle cap screws to 20 ft-lb.

■ NOTE: Since track tension and track alignment are interrelated, always check both even if only one adjustment seems necessary.

⚠ WARNING

If jam nuts are not tightened properly, the adjusting bolts could loosen causing the track to become extremely loose and, under some operating conditions, allow the idler wheels to climb over the track lugs forcing the track against the tunnel causing the track to "lock." If a track "locks" during operation, severe personal injury could result.

Track Alignment

Proper track alignment is obtained when the rear idler wheels are equal distance from the inner track drive lugs. Excessive wear to the idler wheels, drive lugs, and track will occur if the track is improperly aligned. Arctic Cat recommends that the track alignment be checked once a week or whenever the track tension is adjusted.

Checking Track Alignment

⚠ WARNING

Make sure the ignition key is in the OFF position and the track is not rotating before checking or adjusting track alignment. Personal injury could result if contact is made with a rotating track.

1. Remove excess ice and snow buildup from the track, track drive sprockets, and the inside of the skid frame.
2. Position the tips of the skis against a wall; then using a shielded safety stand, raise the rear of the snowmobile off the floor making sure the track is free to rotate.

⚠ WARNING

The tips of the skis must be positioned against a wall or similar object.

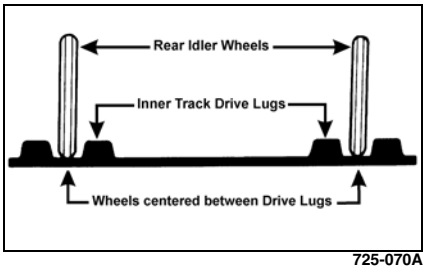
⚠ WARNING

DO NOT stand behind the snowmobile or near the rotating track. NEVER run the track at high speed when the track is suspended.

3. Start the engine and accelerate slightly. Use only enough throttle to turn the track several revolutions. SHUT ENGINE OFF.

■ NOTE: Allow the track to coast to a stop. DO NOT apply the brake because it could produce an inaccurate alignment condition.

4. When the track stops rotating, check the relationship of the rear idler wheels and the inner track drive lugs. If the rear idler wheels are centered between the inner track drive lugs, no adjustment is necessary.



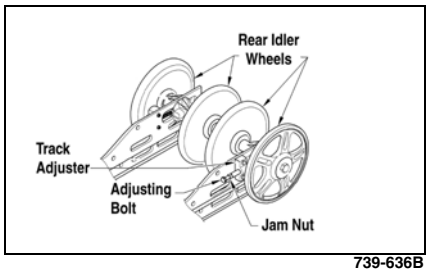
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5. If the idler wheels are not centered between the inner track drive lugs, an adjustment is necessary.

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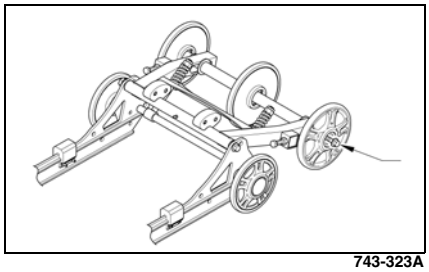
Adjusting Track Alignment

1. On the side of the track which has the inner track drive lugs closer to the rear idler wheel, loosen the adjusting bolt jam nut; then rotate the adjusting bolt clockwise 1 to 1 1/2 turns.



739-636B

■ **NOTE: On the Bearcat XT models, the rear axle cap screws must also be loosened.**



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2. Check track alignment and continue adjustment until proper alignment is obtained.

■ **NOTE: Make sure correct track tension is maintained after adjusting track alignment (see Track Tension sub-section in this section).**

3. After proper track alignment is obtained, tighten the adjusting bolt jam nut against the axle housing.

⚠ WARNING

If a jam nut is not tightened properly, the adjusting bolt could loosen causing the track to become dangerously loose.

■ **NOTE: On the Bearcat XT models, tighten the rear axle cap screws to 20 ft-lb.**

4. Field test the track under actual conditions.
5. After the field test, check the alignment of the track. If additional adjustment is necessary, repeat Adjusting Track Alignment procedure.

Suspension

The suspension should be adjusted for the operational needs and riding preference of the operator.

The front shock springs determine the amount of ski pressure and the reaction of the front suspension to rough terrain. The amount of ski pressure can also be changed by adjusting the length of the skid frame front arm limiter straps.

The rear springs influence the load carrying capability of the snowmobile and should be adjusted for the weight and riding preference of the operator.

Adjusting Front (Ski) Shock Springs

■ **NOTE: On the Bearcat 570/T570 models, the front (ski) shock springs are not adjustable.**

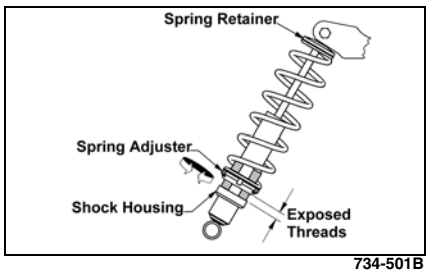
The front (ski) shock springs are individually adjustable for the terrain conditions and driving style of the operator. The spring adjuster/adjuster nut has been set at the factory so the correct amount of threads are exposed between the adjuster/nut and the threaded shock housing/body as an initial setting. Additional ski pressure can be obtained by tightening the spring tension; ski pressure can be decreased by relaxing spring tension.

■ **NOTE: Equal adjustments should be maintained on both sides of the snowmobile.**

On the Bearcat XT models to adjust spring tension, rotate the entire spring in whichever direction is desired. If after adjusting spring tension you note the snowmobile front end wants to pitch, relax the spring tension on the side that is pitching. If both sides are pitching, relax the spring tension on both sides.

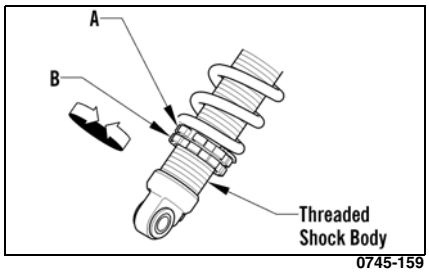
■ **NOTE: The spring adjuster will normally rotate with the spring.**

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734-501B

On the TZ1 LXR models to adjust spring tension, loosen the adjuster nut locking collar (B) from the adjuster nut (A); then using the Spring Adjuster Tool from the tool kit, rotate the adjuster nut in whichever direction is desired. Tighten the locking collar against the adjuster nut.



0745-159

Adjusting Skid Frame Front Arm (Bearcat XT Models)

On these models, the skid frame front arm shock spring tension and the limiter straps are adjustable. However, Arctic Cat recommends that the shock spring be maintained at the factory preset of 1/8-1/4 in. preload. Tightening the skid frame front arm shock spring may cause improper balance and may ruin the handling features of the snowmobile.

The length adjustment of the front arm limiter straps determines the weight distribution between the front of the skid frame and the skis. Tightening the limiter strap (shortening the strap) will pull up on the front of the skid frame and will increase ski pressure. Loosening the limiter strap (lengthening the strap) lowers the front of the skid frame and decreases ski pressure.

When customizing the amount of ski pressure, be sure to adjust both straps equally and do not over-adjust the limiter straps to adversely affect steering and operator control of the snowmobile. Some experimentation may be required until the proper adjustment for the operator's individual style is obtained.

■ NOTE: If the limiter straps are adjusted, it is highly recommended that at least a minimum of 1/8 in. preload on the shock spring be maintained.

⚠ WARNING

Do not adjust the front arm limiter straps to a point at which steering and operator control of the snowmobile are adversely affected.

Adjusting Rear Spring Pre-Load

Proper adjustment of rear spring pre-load is necessary to get the most desirable ride. The chart is designed to help in setting up rear spring pre-load; however, riding style is the single greatest factor in determining rear spring requirements.

Rider Weight (lb)	Cam Position
Up to 180	1
180-240	2
Over 240	3

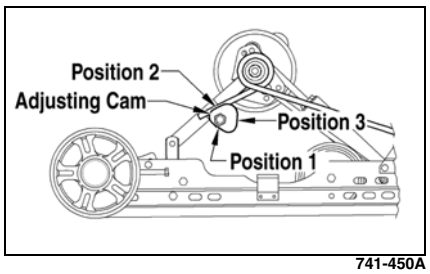
■ NOTE: These cam position settings are suggestions only. Personal riding style will greatly influence cam position settings. Spend time to determine setting preferences.

Rear spring pre-load adjustment is accomplished by rotating the adjusting cams. Position 3 provides the stiffest ride, and position 1 is for the light driver or slow-speed trail riding. Position 2 is for the average operator under normal conditions. Always rotate the cam from the lighter position to the heavier position.

CAUTION

Never force the adjustment cams from the low position to the high position. Cam damage may occur.

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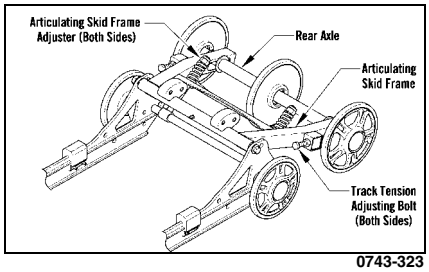
To rotate an adjusting cam, use the spark plug wrench from the tool kit. Rotate the wrench until the cam is in the desired position. To stiffen the ride, rotate the cam so as to raise the spring end. Make the appropriate adjustment on the other cam.

Articulating Skid Frame (Bearcat XT Models)

The rear articulating portion of the skid frame has two skid frame adjusters which control the amount of travel in the rear suspension.

These two adjusters have been pre-set at the factory and should require no further adjustment.

If adjustment is ever required, rotate the two adjusters equally to permit 12.5-25 mm (1/2-1 in.) travel of the articulating portion of the suspension.



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■ **NOTE: Tightening the adjusters will stiffen the articulating skid frame travel; loosening the adjusters will soften the travel.**

Overload Springs

Some models have overload springs built into the rear suspension. When either carrying a heavy load or riding 2-up, the overload springs should be engaged by rotating the spring tension blocks to the UP position. The spring tension blocks lock in an over-center position when engaged.

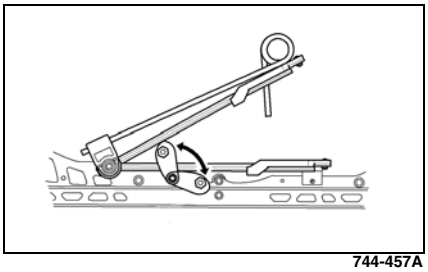
■ **NOTE: Arctic Cat recommends that the overload springs be engaged whenever a load on the snowmobile (operator/passenger/cargo) exceeds 136 kg (300 lb).**

CAUTION

There are weight limitations for these snowmobiles. If additional cargo is being added, maximum weight on the snowmobile (operator/passenger/cargo) should not exceed the maximum limitation set for each snowmobile. See chart for details. Also, the overload springs should be engaged.

Maximum Weight Limitations		
Bearcat 570	170 kg	375 lb
Bearcat 570 XT	272 kg	600 lb
Bearcat Z1 XT	272 kg	600 lb
T570/TZ1	170 kg	375 lb

To either engage or disengage the spring tension blocks, use a spark plug socket and a screwdriver to adjust the spring block to the desired position. Make sure both spring blocks are in the same position (either engaged or disengaged).



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Lights

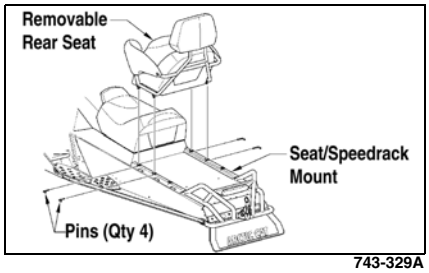
For the correct headlight bulb and/or taillight/brakelight LED, see the appropriate specifications sheet.

Removing and Installing Taillight/Brakelight (Bearcat XT Models)

These models are equipped with an LED taillight/brakelight. If the LED fails, it must be replaced. To remove and install the LED, use the following procedure.

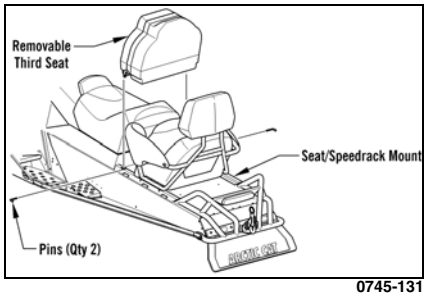
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1. Remove the four pins securing the rear seat to the seat/Speedrack mount.



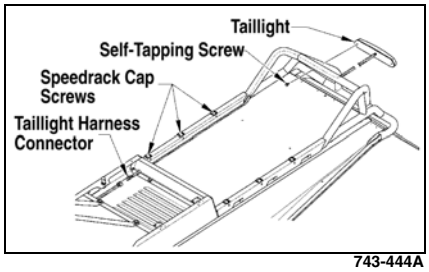
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■ **NOTE: On the LTD models, also remove the two pins securing the third seat to the seat/Speedrack mount; then lift the third seat up and away.**



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2. Lift on the back of the rear seat and move rearward to remove it from the mount.
3. Compress the latch on the right side of the front seat and lift the front seat away; then disconnect the taillight harness connector.



743-444A

4. Loosen (but do not remove) the three right-side seat/Speedrack mount cap screws.
5. Carefully route the harness connector through the hole in the storage compartment panel; then remove the harness from beneath the seat/Speedrack mount.
6. Remove the two self-tapping screws securing the taillight to the bumper; then route the harness out of the bumper and remove the taillight.
7. Route the taillight harness through the bumper; then secure the taillight to the bumper with the two self-tapping screws.
8. Carefully route the harness beneath the Speedrack mount and through the hole in the storage compartment panel; then connect the harness connector.
9. Tighten the three right-side mount cap screws; then lower the front seat.
10. Place the rear seat into position on the mount making sure the four pin holes are properly aligned with the mounting location on the mount.
11. Install the four pins making sure they are properly seated.

■ **NOTE: On the LTD models, place the third seat into position on the mount making sure the two pin holes are properly aligned with the mounting location on the mount; then install the two pins making sure they are properly seated.**

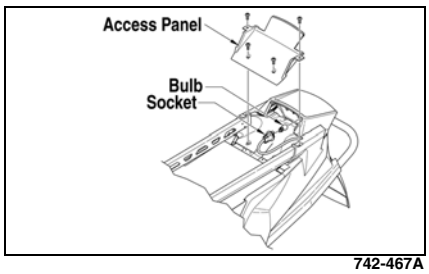
⚠ WARNING

Make sure the rear seat (and on the LTD models, the third seat) is securely locked in place with the pins before carrying a passenger or personal injury may result.

Removing and Installing Taillight/Brakelight Bulb (Bearcat 570/T570/TZ1 Models)

1. Remove the torx-head cap screws securing the taillight access panel.

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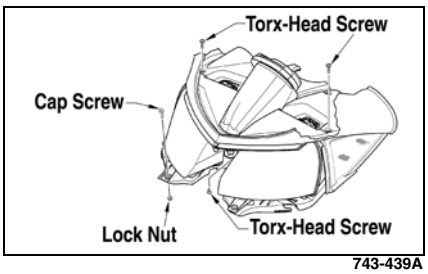
2. Disconnect the harness connector and remove housing.
3. Push in on the socket and rotate it counterclockwise to remove it from the housing.
4. Remove the old bulb by pulling it straight out of the socket.
5. Install the new bulb in the socket by pushing it straight in.
6. Push the socket into the housing and rotate it clockwise to lock into place.
7. Connect the harness connector.
8. Secure the access panel with the torx-head cap screws.

Removing Headlight Bulb

■ NOTE: The bulb portion of headlight is fragile. HANDLE WITH CARE. When replacing the headlight bulb, the bulb assembly must first be removed from the housing. Do not touch the glass portion of the bulb. If the glass is touched, it must be cleaned with a dry cloth before installing.

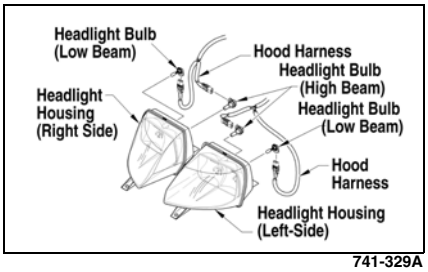
To access the headlight bulbs, use the following procedure:

1. Remove the two torx-head screws located to the outside of the headlight adjustment knobs; then remove the single torx-head screw from beneath the console (located between the headlights).



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2. Remove the cap screw and lock nut securing the front of the headlight assembly to the air-intake silencer.
3. Lift the front of the console enough to allow the headlight housing to be removed; then remove the housing.
4. Remove the bulb from the headlight housing and disconnect the wiring harness from the bulb.



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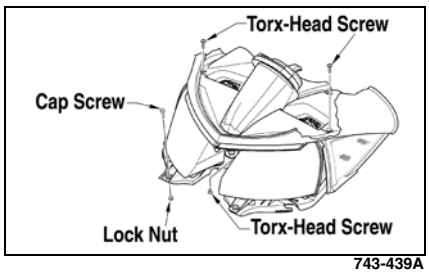
Installing Headlight Bulb

CAUTION

Do not touch the glass portion of the bulb. If the glass portion is touched, it must be cleaned with a dry cloth before installing.

1. Plug the wiring harness into the headlight bulb.
2. Insert the bulb into the headlight housing.
3. Lift the front of the console enough to allow the headlight housing to be installed; then install the housing making sure the forks of the housing go into the grommets on top of the air-intake silencer. Secure with the cap screw and lock nut.

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4. Position the console onto the air-intake silencer; then secure with the single torx-head screw beneath the console (located between the headlights).
5. Install the two torx-head screws located to the outside of the headlight adjustment knobs; then tighten securely.
6. Check headlight aim (see Adjusting Headlight Aim in this sub-section).

⚠ WARNING

Do not operate the snowmobile unless headlight beam is adjusted properly. An incorrectly adjusted beam will not provide the operator the optimum amount of light.

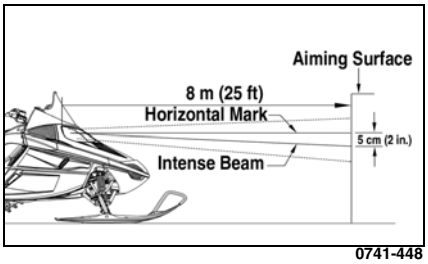
Adjusting Headlight Aim

The headlight can be adjusted for vertical aim of the HIGH/LOW beam. The geometric center of HIGH beam zone is to be used for vertical aiming.

1. Position the snowmobile on a level floor so the headlight is approximately 8 m (25 ft) from an aiming surface (wall or similar surface).

■ NOTE: There should be an "average" operating load on the snowmobile when adjusting headlight aim.

2. Measure the distance from the floor to midpoint of the headlight.
3. Using the measurement obtained in step 2, make a horizontal mark on the aiming surface.
4. Make a vertical mark which intersects the horizontal mark on the aiming surface directly in front of the headlight.
5. Engage the brake lever lock and start the engine. Move the headlight dimmer switch to the HIGH beam position. DO NOT USE LOW BEAM.
6. Observe the headlight beam aim. Proper aim is when the most intense beam is centered on the vertical mark 5 cm (2 in.) below the horizontal mark on the aiming surface.



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7. Adjust the headlight using the adjustment knobs until correct aim is obtained. Shut the engine off; then disengage the brake lever lock.

Ski Wear Bars

The ski wear bar is a replaceable bar attached to the underside of the ski. The purpose of the wear bar is to assist in turning the snowmobile, to minimize ski wear, and to maintain good steering control. If the snowmobile is operated primarily in deep snow, ski wear bar wear will be minimal; however, if the snowmobile is operated on terrain where the snow cover is minimal, the ski wear bar will wear faster. To maintain positive steering characteristics, Arctic Cat recommends that the ski wear bars be checked before each use and replaced if worn beyond 1/2 of the original diameter. Ski wear bars are available from an authorized Arctic Cat Snowmobile dealer.

⚠ WARNING

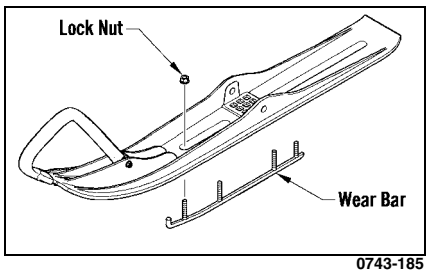
Operating the snowmobile with excessively worn ski wear bars may result in a loss of steering control.

Removing Ski Wear Bars

■ NOTE: Determine which type of wear bar is being replaced and remove and install accordingly.

1. Remove ice and snow buildup from the ski.
2. Using a suitable safety stand or lift, elevate the front of the snowmobile.
3. Remove the lock nuts securing the wear bar to the ski.

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4. Remove the wear bar from the ski.

Installing Ski Wear Bars

1. Move the wear bar into position on the bottom of the ski.

■ NOTE: If installing a double-offset wear bar for normal steering capabilities, the carbide edge should be directed to the inside of the ski.

2. Align the wear bar studs with the holes in the ski; then install the lock nuts. Tighten to 11-15 ft-lb.

Adjusting Ski Stance (Bearcat Models)

■ NOTE: Local laws and/or regulations as to maximum width of the ski stance on these snowmobiles may be applicable. Always comply with the maximum width laws and/or regulations when adjusting ski stance.

■ NOTE: Ski stance can be increased/decreased by 6.3 cm (2.5 in.).

1. Place the front of the snowmobile on a support stand.
2. Remove the cotter pin; then remove the slotted nut and cap screw securing the ski assembly to the spindle. Remove the ski. Account for the rubber damper, inserts, and washers.
3. To increase ski stance, place both ski stance spacers to the outside of the spindle.
4. To decrease ski stance, place both ski stance spacers to the inside of the spindle.
5. Apply an all-temperature grease to the non-threaded portion of the cap screw; then slide the cap screw through the ski accounting for the rubber damper, inserts, and washers.

■ NOTE: Install the cap screw so the slotted nut will be located to the inside of the ski.

6. Apply red Loctite #271 to the threads of the cap screw; then tighten the nut to 45 ft-lb.
7. Place the cotter pin into the ski cap screw and spread the pin.
8. Repeat procedure for the other ski.

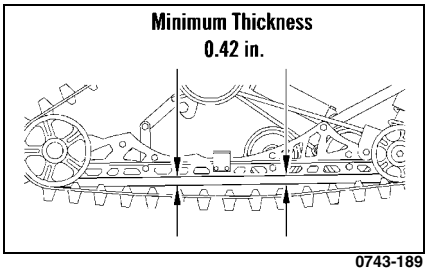
Rail Wear Strips

Arctic Cat recommends that the wear strips be checked weekly and replaced as necessary. Measure the wear strips at 25.4 cm (10 in.) intervals. Wear strips must be 10.7 mm (0.42 in.) thick or thicker.

If wear strip measurements are less than specified, replacement of both wear strips is necessary to prevent premature track clip wear and possible track damage. Take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

Each time a new set of wear strips are installed, they should be tempered. Temper the wear strips by driving the snowmobile for approximately a mile on a hard pack trail; then immediately drive into deep snow and allow the wear strips to cool. Repeat the procedure (warming up the wear strips; then cooling them down) two or three times.

■ NOTE: The rail wear strips will wear rapidly if the snowmobile is operated on terrain on which the snow cover is minimal. Loose snow is required to cool and lubricate the wear strips and prevent accelerated wear.



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Performance Tips

Operating a high performance snowmobile requires a special attention that is not required by a low performance snowmobile. Often, a minor adjustment will result in a large increase in performance. This section is intended to highlight minor conditions that adversely affect performance and the adjustments needed to correct them. Be sure, however, to thoroughly read and understand this entire manual especially the section on spark plugs, track tension and alignment, and suspension.

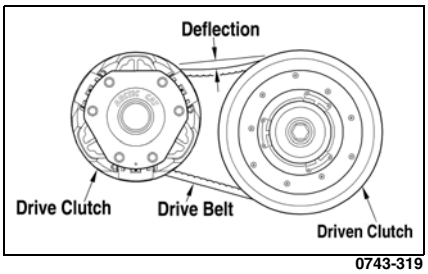
DRIVE BELT — This link between the engine and drive train is often the most neglected component. The drive belt must have the proper fit in the drive clutch and driven pulley. Proper fit is when the top surface of the drive belt is flush with the top or up to 1/16 in. higher than the driven pulley sheaves (with the sheaves fully closed). If drive belt deflection is above specification, the snowmobile will bog and lack power at engagement and will have a slower maximum speed. For good performance, proper belt deflection is critical. To correct this condition, first determine if the drive belt is within specifications (see Drive Belt sub-section) and replace if worn or too long. Always run the drive belt in the same direction. Installing the drive belt so the part number can be read will ensure that the drive belt is always run the same direction.

DRIVE BELT DEFLECTION — Drive belt length, condition, and deflection are all important for peak performance. To check and adjust drive belt deflection, remove the belt guard; then use the following procedure.

■ NOTE: It may be necessary to remove a shim washer from between the driven pulley sheaves to allow the driven pulley to close tighter. Adding shim washers will decrease belt deflection and removing shim washers will increase belt deflection. Available shim washers from Arctic Cat are p/n 0648-714 (0.090 in.) - one included in the tool kit, p/n 0648-715 (0.030 in.), and p/n 0648-716 (0.060 in.).

■ NOTE: Removing/adding shim washers may be done by the snowmobile owner if qualified to do so. If the owner does not feel qualified, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for this service. This service is at the discretion and expense of the snowmobile owner.

1. Turn the engine off; then open the access panel.
2. Make sure the drive belt is sitting at the top of the driven pulley sheaves.
3. Place a straightedge on top of the drive belt. The straightedge should reach from the driven clutch to the top of the driven pulley.
4. Using a stiff ruler centered between the drive clutch and driven pulley, push down on the drive belt just enough to remove all slack. Note the amount of deflection on the ruler at the bottom of the straightedge. The deflection should be at 1 1/4 in.



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■ NOTE: Push down on the belt with the ruler only until the bottom of the belt flexes upward; then read the amount of deflection.

5. To correct drive belt deflection, remove the sheave adjuster from the pulley, remove or add shim washers to the adjuster, and install the adjuster.

■ NOTE: Adding shim washers will decrease belt deflection; removing shim washers will increase belt deflection.

6. Install the belt guard; then close the access panel.

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DRIVE CLUTCH AND DRIVEN PULLEY — Keeping the drive clutch and driven pulley clean should be the primary consideration of the operator. The drive clutch and driven pulley can be cleaned of any drive belt accumulation using compressed air. The sheaves can be cleaned using a clean cloth and parts-cleaning solvent.

DRIVE CLUTCH/DRIVEN PULLEY OFFSET — If premature drive belt wear is experienced or if the drive belt turns over, offset must be checked. Also, offset must be checked whenever either the drive clutch or driven pulley is serviced.

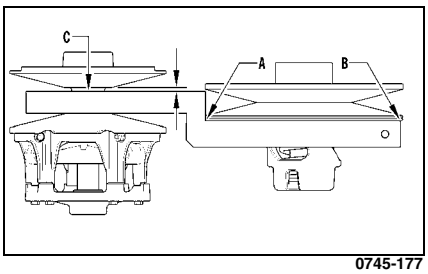
■ NOTE: For checking offset, it is necessary to use Clutch Alignment Bar (p/n 0644-496). This special tool can be purchased from an authorized Arctic Cat snowmobile dealer.

To check offset, use the following procedure.

1. Open the left-side access panel; then remove the belt guard.
2. Install the clutch alignment bar between the drive clutch sheaves.
3. Allow the bar to rest on the drive clutch shaft and against the outside edge of the driven pulley stationary sheave.

■ NOTE: The alignment bar must extend beyond the front edge of the drive clutch.

4. With the bar against the outside edge of the driven pulley stationary sheave at points A and B, the bar should just clear the inside edge of the stationary sheave of the drive clutch and rest on the stationary shaft at point C with a maximum 0.060 in. clearance at point C. At this point, measurement between points A and C should be 1.507 in. (with a maximum 0.060 in. clearance). If the bar either will not clear the inside edge or is more than the specified amount, the offset must be corrected.



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■ NOTE: If the offset is out of specification, take the snowmobile to an authorized Arctic Cat Snowmobile dealer for drive system evaluation and/or servicing. This service is at the discretion and expense of the snowmobile owner.

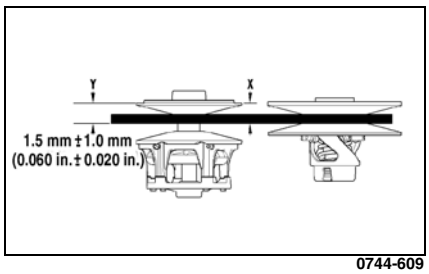
DRIVE CLUTCH/DRIVEN PULLEY PARALLELISM — If premature drive belt wear is experienced or if the drive belt turns over, parallelism must be checked. Also, parallelism must be checked whenever either the drive clutch or driven pulley is serviced.

■ NOTE: For checking parallelism, it is necessary to use Clutch Alignment Bar (p/n 0644-509). This special tool can be purchased from an authorized Arctic Cat Snowmobile dealer.

To check parallelism, use the following procedure.

1. Remove the drive belt; then open the driven sheaves and place clutch alignment bar between the sheaves. Release the sheaves.
2. Check the parallelism of the drive clutch/driven pulley using the parallelism bar and reference points X and Y with the parallelism bar between the driven sheaves. Using a caliper or a machinist's scale, measure X and Y from the back side of the parallelism bar to the back side of the drive clutch sheave. Measurement Y must be 0.060 in. ± 0.020 in. more than measurement X, but Y must not exceed measurement X by more than 0.100 in.

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3. If parallelism is not within specifications, the parallelism must be corrected by first loosening all the engine mounting bolts (left side, front, and right top rear). Then, pry the front of the engine towards the MAG-side of the engine compartment. Next tighten the left-side mounting bolts followed by the front and right-top rear bolts. Re-check the parallelism. If still out of specification, repeat correction procedure.

CARBURETOR MAIN JETS

(Bearcat 570/T570 Model) — Proper carburetion is absolutely necessary to obtain peak performance. Since ambient temperature and operating altitude both affect the main jet size needed for optimum engine performance, the main jets MUST be changed whenever the temperature changes 20° F or whenever operating altitude varies by more than 1000 feet. The Carburetor Jet Chart on the belt guard of the snowmobile identifies the proper main jets to use under all operating temperatures and altitudes. Follow the Carburetor Jet Chart carefully to obtain peak engine performance and avoid engine damage.

GASOLINE — It is not necessary to exceed the recommended 87 octane gasoline. Using a higher octane gasoline will not increase overall performance; however, the TZ1 Turbo model will detect lower octane gasoline and reduced engine performance will result. It is recommended that 91 octane (minimum) gasoline be used in the TZ1 Turbo models.

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Preparation for Storage

Prior to storing the snowmobile, it must be properly serviced to prevent corrosion and component deterioration. An authorized Arctic Cat Snowmobile dealer should perform this service; however, the owner/operator can perform this service if desired. This service is at the discretion and expense of the snowmobile owner. To prepare the snowmobile for storage, Arctic Cat recommends the following procedure:

1. Clean the seat cushion with a damp cloth and a Vinyl Protectant.
2. Clean the snowmobile thoroughly by hosing dirt, oil, grass, and other foreign matter from the skid frame, tunnel, hood, and belly pan. Allow the snowmobile to dry thoroughly. DO NOT get water into any part of the engine.

■ NOTE: On the Bearcat Z1 XT/TZ1 models, change the engine oil and replace the air filter if necessary; then proceed to step 6.

3. Place the rear of the snowmobile up on a shielded safety stand.

■ NOTE: On the Bearcat 570/T570 models prior to step 4, carefully pry the intake boots partially over the carburetor inlets.

4. Start the engine and allow to idle.
5. Spray an Engine Storage Preserver into the intakes until the engine exhaust starts to smoke heavily or until the engine starts to drop in RPM. Turn engine off. Install the intake boots.

CAUTION

Do not run the engine without the belt guard in place and secured.

6. Plug the exhaust system outlet with a clean cloth.

CAUTION

Do not do step 7 on the Bearcat Z1 XT/TZ1 models; severe engine damage could result.

7. With the ignition switch in the OFF position:
   A. Disconnect the high tension leads from the spark plugs; then remove the plugs, connect them to the leads, and ground them on the cylinder heads.

CAUTION

Never crank the engine over without grounding the spark plugs. Damage to coils and/or CDI may result.

   B. Pour 29.5 ml (1 fl oz) of SAE #30 petroleum-based oil into each spark plug hole and pull the recoil starter handle slowly about 10 times.
   C. Install the spark plugs and connect the high tension leads.

■ NOTE: On the Bearcat 570/T570 models, drain the gas from each carburetor float chamber.

8. Fill the gas tank to its rated capacity; then add Arctic Cat Fuel Stabilizer (p/n 0436-907) to the gas tank following directions on the container for the stabilizer/gasoline ratio. Tighten the gas tank cap securely.
9. Flush the gear case and replace the lubricant (see Lubrication section).
10. Remove the drive belt from the drive clutch/driven pulley. Lay the belt on a flat surface or slide it into a cardboard sleeve to prevent warping or distortion during storage.
11. Clean and inspect the drive clutch and driven pulley.
12. Apply light oil to the upper steering post bushing and shafts of the shock absorbers.
13. Lubricate the rear suspension, spindles, and steering arms with all-temperature grease.
14. Tighten all nuts, bolts, and cap screws making sure all nuts, bolts, and cap screws are tightened securely. Make sure all rivets holding the components together are tight. Replace all loose rivets.

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15. Clean and polish the hood, console, and chassis with Arctic Cat Hood and Windshield Cleaner/ Polish (p/n 4639-559). DO NOT USE SOLVENTS OR SPRAY CLEANERS. THE PROPELLANT WILL DAMAGE THE FINISH.

■ NOTE: On electric start models, disconnect the battery cables making sure to disconnect the negative cable first; then clean the battery posts and cables. Charge the battery.

CAUTION

Sealed batteries require charging if left for extended non-start periods. Arctic Cat recommends trickle charging once a month. Follow the manufacturer's instructions and cautions.

16. If possible, store the snowmobile indoors. Raise the track off the floor by blocking up the back end making sure the snowmobile is secure. Loosen the track adjusting bolts to reduce track tension. Cover the snowmobile with a machine cover or a heavy tarpaulin to protect it from dirt and dust.
17. If the snowmobile must be stored outdoors, position the snowmobile out of direct sunlight; then block the entire snowmobile off the ground making sure the snowmobile is secure. Loosen the track adjusting bolts to reduce track tension. Cover with a machine cover or a heavy tarpaulin to protect it from dirt, dust, and rain.

CAUTION

Avoid storing in direct sunlight and using a plastic cover as moisture may collect on the snowmobile causing corrosion.

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Preparation after Storage

Taking the snowmobile out of storage and correctly preparing it for another season will assure many miles and hours of trouble-free snowmobiling. Arctic Cat recommends the following procedure:

CAUTION

On the Bearcat 570/T570 models if the gas in each carburetor float chamber was not drained prior to storage, the carburetors must be cleaned before starting the engine.

1. Clean the snowmobile thoroughly. Polish the exterior of the snowmobile.
2. Clean the engine. Remove the cloth from the exhaust system. Check exhaust system and air-intake silencer for obstructions.
3. Inspect all control wires and cables for signs of wear or fraying. Replace if necessary. Use cable ties or tape to route wires and cables away from hot or rotating parts.
4. Inspect the drive belt for cracks and tears. Check belt specifications. Replace if damaged or worn. Install the drive belt.

■ NOTE: If the old belt is worn but in reasonable condition, retain it with the snowmobile as a spare in case of emergency.

■ NOTE: On the Bearcat 570/T570 models, inspect the in-line fuel filter and replace if necessary.

5. Inspect all fuel hoses and oil hoses for deterioration or cracks; replace if necessary. Make sure all connections are tight; then on the Bearcat 570/T570 models, fill the oil-injection reservoir with the recommended 2-cycle oil (see Gasoline-Oil - Recommended Injection Oil sub-section in the General Information section).

■ NOTE: After prolonged storage of the Bearcat 570/T570 models, Arctic Cat recommends one tankful of 100:1 gas/oil mixture be used in conjunction with the oil-injection system to ensure proper lubrication.

6. On the Bearcat 570/T570 models, inspect the spark plugs. Replace, gap, or clean as necessary.
7. Verify the condition of and the adjustment of the carburetors and choke cable (on the Bearcat 570/T570 models) and throttle cable (on all models).

⚠ WARNING

On the Bearcat 570/T570 models, be sure to tighten the swivel adapter jam nuts securely. If a jam nut isn't tightened, the adjuster can rotate out of the carburetor cap causing the throttle valve not to return to the full-closed position.

8. Tighten all nuts, bolts, and cap screws making sure all nuts, bolts, and cap screws are tightened securely.
9. If not done during preparation for storage, lubricate the rear suspension, spindles, and steering arms with all-temperature grease.
10. On the Bearcat Z1 XT/TZ1 models, check the coolant level and all coolant hoses and connections for deterioration or cracks. Add properly mixed coolant as necessary.
11. On the Bearcat 570/T570 models, clean the engine cooling fins and vents.
12. On electric start models, charge the battery until fully charged (see Battery sub-section in the Maintenance section); then connect the battery cables making sure to connect the positive cable first. Test the electric start system.
13. Inspect the entire brake system, all controls, headlight, taillight, brakelight, ski wear bars, and headlight aim; adjust or replace as necessary.
14. Adjust the track to the proper tension and alignment (see Track Tension and Track Alignment sub-sections in the Maintenance section).

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NOTES

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U.S. EPA Emission Control Statement/Warranty Coverage (U.S. Only)

STATEMENT/WARRANTY

Arctic Cat warrants to the original retail purchaser, and each subsequent purchaser, that all U.S. EPA-certified Arctic Cat snowmobiles are designed, built, and equipped to conform to all U.S. EPA Emission Control Regulations. Please read the following information completely.

Your authorized Arctic Cat snowmobile dealer will repair or replace any defective emission-related component at no cost to you during the warranty period. You may have non-warranty service performed by any repair establishment that uses equivalent components. The regulations provide significant civil penalties for tampering that causes your snowmobile to no longer meet U.S. EPA emission standards.

Arctic Cat further warrants that the engine and its emission-related components are free from defects in materials or workmanship that could cause the engine to fail to comply with applicable regulations during the warranty period.

If you have any questions about this information, or the emission warranty coverage statement, contact your local authorized Arctic Cat snowmobile dealer.

WARRANTY PERIOD

The emission warranty period for this snowmobile begins on the same date as the standard warranty coverage and continues for 30 months or 2500 miles, whichever comes first.

COMPONENTS COVERED

The emissions warranty covers major emissions control components and emission-related components listed as follows:

Engine Management and Sensors
- Barometric Pressure Sensor
- Camshaft Position Sensor
- Engine Control Unit (ECU)
- Engine Coolant Temperature Sensor
- Intake Air Temperature Sensor
- Manifold Absolute Pressure Sensor
- Oxygen Sensor
- Throttle Position Sensor

Ignition System
- Ignition Coil
- Knock Sensor System
- Crankshaft Position Sensor
- Exhaust Temperature Sensor
- Capacitive Discharge Ignition (CDI) Module
- Magneto Pick-Up

Fuel/Air System
- Fuel Injectors
- Fuel Pressure Regulator
- Fuel Pump
- Carburetor(s)
- Turbocharger Assembly
- Air Bypass Valve
- Turbo Waste Gate Control Valve
- Crankcase Ventilation System
- ISC Valve

Miscellaneous Items Used in Aforementioned Systems
- Connectors
- Switches
- Grommets
- Clamps
- Hoses
- Ties
- Gaskets
- Wiring

OWNER'S RESPONSIBILITIES

The owner of any snowmobile warranted under this Arctic Cat Emission Control Statement is responsible for the proper maintenance and use of the snowmobile as stated in the Operator's Manual. Proper maintenance generally includes replacement and service, at the owner's choosing, such items as air filter, oil and oil filter, or any other part, item, or device related to emissions control as specified in the Operator's Manual. It is the owner's responsibility to ensure that the snowmobile is used in a manner for which it was designed.

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Change of Address, Ownership, or Warranty Transfer

Arctic Cat Inc. keeps on file the current name and address of the owner of this snowmobile. This will allow Arctic Cat to reach the current owner with any important safety information which may be necessary to protect customers from personal injury or property damage. Please make sure a copy of this form is completed and returned to Arctic Cat Inc. if you move or if the snowmobile is sold to another party.

This form may also be used to transfer the unused portion of the original warranty to a second party. In order to transfer warranty, fill out this form completely; then return a copy of this form to Arctic Cat Inc. Arctic Cat will then process the application and issue warranty for the balance of the time remaining of the original warranty.

- ❑ Address Change
- ❑ Ownership Change
- ❑ Warranty Transfer

CHANGE OF ADDRESS/OWNERSHIP/ WARRANTY TRANSFER TO:

Name _____

Address _____

City/State (Province)/Zip Code (Postal Code) _____

Phone # ( ) _____

Year and Model Snowmobile _____

Vehicle Identification Number (VIN) _____

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Fold Back Once

Place
Stamp
Here

CHANGE OF ADDRESS/OWNERSHIP

ARCTIC CAT INC.
PRODUCT SERVICE AND
WARRANTY DEPT.
P.O. BOX 810
THIEF RIVER FALLS, MN 56701

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Warranty Procedure/Owner Responsibility

At the time of sale, an Owner Registration form is to be completed by the selling dealer and consumer. The receipt of the registration form by Arctic Cat is a condition precedent to warranty coverage. It is the selling dealer's responsibility to retain and/or submit the appropriate copies of the form to the appropriate place(s) to initiate warranty coverage.

The dealer will furnish to the consumer a signed copy of the form which must be presented to the dealer when requesting warranty service. **The registration form is the consumer's proof of ownership and warranty eligibility. The form is used by the dealer to validate the warranty claim.** Retain your copy of the form and keep it in a safe place.

When warranty repair is suspected, the snowmobile should be taken to the selling dealer, who has the primary responsibility to perform warranty repairs. Subject to the limitations set forth in the Limited Warranty, in the event the selling dealer has ceased to do business, you have moved, or you are in a location away from your selling dealer, warranty may be performed by any authorized Arctic Cat Snowmobile dealer.

The authorized Arctic Cat Snowmobile dealer will examine the snowmobile or part to determine if, in his opinion, a warrantable condition exists. If a warrantable condition appears to exist, the dealer will repair or replace, at Arctic Cat's option, free of charge, including any related labor costs, all parts that are found to be warrantable and any other parts which the warrantable part caused to be damaged. You, the consumer, will then be asked to sign a warranty form to ensure Arctic Cat that the warranty work was actually performed.

It is the consumer's responsibility to maintain and service the snowmobile in accordance with Arctic Cat's recommendations in the Operator's Manual. To protect yourself and your snowmobile, follow all safety and service tips. **Arctic Cat will NOT warrant repairs required as a result of not performing standard operator maintenance, storage procedures, and service as outlined in the Operator's Manual.**

Should you have any questions concerning the warranty, contact an authorized Arctic Cat Snowmobile dealer.

Arctic Cat Inc., P.O. Box 810, Thief River Falls, MN 56701 (218) 681-8558

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