



# Service Advisory

**Date:** December 9, 2002

**Product Line:** Snowmobile

**Advisory No:** SAS313

**Subject:** Pre-Delivery Cooling System Bleeding

## Affected Models:

All 2003 Firecat 500 cc and 700 cc Models

---

It has come to our attention that the cooling system on the affected models may develop an air bubble in the cooling system if the cooling system has not been properly bled. To ensure that an air bubble does not exist or develop in the cooling system, Arctic Cat strongly advises all dealers to bleed the cooling system according to the procedure included in this advisory.

If you have sold an affected snowmobile, please contact the owner regarding this issue.

■ **NOTE: Be sure to have the identified pre-delivery work completed before allowing an owner to take possession of the affected snowmobile.**

■ **NOTE: Be sure to inform the customer to 1.) use up one full tank of pre-mix, 2.) drive slowly during the break-in period, 3.) monitor the coolant level and coolant temperatures, 4.) make sure there isn't air in the oil line.**

## Bleeding the Cooling System

■ **NOTE: Prior to bleeding the cooling system, make sure the following pre-preparations are completed.**

- A. Make sure there is 100:1 mixed gas in the tank.
- B. Make sure that there is no air bubble in the oil line.
- C. Make sure the switch on the console is in the ethanol mode.
- D. Use **regular mode only when running non-ethanol or non-MTBE gasolines.**

1. Check the coolant level in the clear coolant bottle on the right-hand side of the snowmobile.
2. If the coolant level is low, fill w/coolant.
3. Because the coolant fills slowly into the engine, it is necessary to wait for 10 minutes after filling the coolant tank to allow the engine to fill with coolant.
4. Recheck the coolant bottle level. If the level is low after 10 minutes, repeat steps 2 and 3.
5. Install the coolant cap to the "first" position.
6. Start the engine. Do not exceed 3000 RPM.
7. After the engine has run for about 3-5 minutes, the right-side running board heat exchanger should feel warm to the touch.

■ **NOTE: This is a sign that the thermostat has opened.**

8. Shut off the engine.
9. Tighten the coolant cap to the "second" position.

10. Tip the snowmobile onto the left-hand side (PTO-side) to allow air to move from the rear heat exchanger to the coolant tank.
11. Recheck the coolant level. If the coolant level is low, repeat steps 2 and 3.
12. Install the coolant cap to the “first” position.
13. Place the snowmobile onto a safety stand.
14. Start the engine and run for 1 to 2 minutes. Do not exceed 5000 RPM.
15. Monitor the heat exchanger temperature by touch.
16. Shut the engine off for 5 minutes.
17. Start the engine and repeat steps 7-16 an additional 2-3 times.

Thank you for your cooperation in this matter.

Sincerely,

Product Service Department  
Arctic Cat Inc.



Printed in the U.S.A.



®™ Trademarks of Arctic Cat Inc., Thief River Falls, MN 56701



1202