



Technical Tip M2-06-0001

Studding an Arctic Cat F-5, F-6 or F-7 Firecat, and Sabercats,

Arctic Cat's Firecat snowmobile provides an exciting new option for the performance-oriented rider. The distinctive tunnel design on the Firecat requires that special care be taken when studding this sled. The strength-enhancing shape of the tunnel prevents studs from being located on the outside or down the center of the track. In addition, the 13.5" wide by 51-lug track requires a unique configuration to achieve a standard 96 or 144 pattern.



View of Firecat/Sabercat Tunnel

Arctic Cat has made available two different lug heights for the 2003-2006 Firecats and Sabercats. We recommend the following studs for use with the Firecats and Sabercats:

Lug Height	Stud
1"	1.075" length Gold Digger©, Mega-Bite™ or Signature Series™ stud
1 3/8"	1.450" length Gold Digger©, Mega-Bite™ or Signature Series™ stud
1 1/4"	1.325" length Gold Digger©, Mega-Bite™ or Signature Series™ stud

Woody's 13.5" x 128" template is designed to accommodate the special needs of this sled while maximizing the number of scratch lines in the studding pattern. **To minimize the chances of tunnel damage or clearance problems always use a Woody's 13.5" x 128" or FCSC-TEMP template to mark your stud pattern.**

The Woody's 13.5" x 128" or FCSC-TEMP template provides the following pattern options:

- 96 studs with Single Digger™ support plates
- 96 studs with Double Digger™ support plates
- 144 studs with Single Digger™ and Double Digger™ support plates.

When completed, the Woody's® 13.5" x 128" template will result in three empty lugs in the pattern. This design accommodates standard stud package sizes, so the installer will not need to buy extra studs to fill in any additional stud locations. When using the FCSC-TEMP, there will be no empty lugs. The quantities will not match our packaging sizes.

When studding your sled with the 13.5" x 128" template, you should initially mark the hole locations using a Track Marker, carefully following the instructions. Because this sled has a 51-lug track, the pattern should be marked and the template moved four times. This process will result in markings on 16 lugs. The 17th lug should be skipped, and the process repeated. The result will be 48 lugs marked for studs and three empty lugs. Before drilling, verify the pattern. Make sure the 17th, 34th, and 51st lugs are empty, which will result in a balanced track. The details for this process are listed on the template. After the track is marked and verified, drill the holes and install the studs.

If the installer chooses to use the FCSC-TEMP or the 128-TEMP, additional studs will be needed. The resulting stud quantities will be:

<u>13.5" X 128" TEMPLATE</u> <u>(3 Lugs Skipped)</u>	<u>FCSC-TEMP</u> <u>(All Lugs Studded)</u>
96 Studs	102 Studs
144 Studs.....	153 Studs