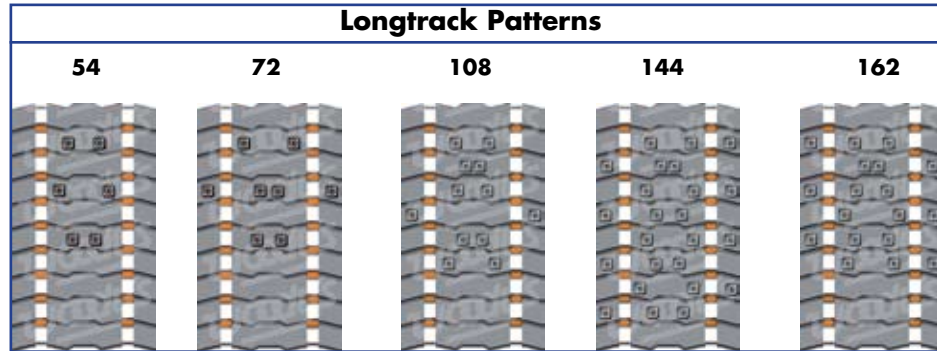
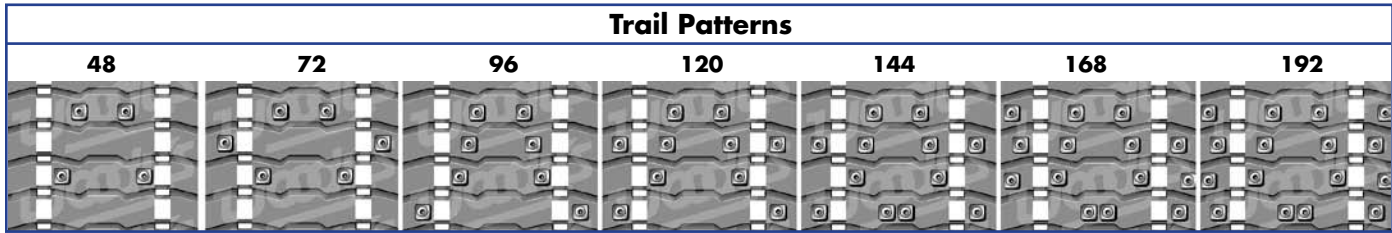


STUD TRAIL SUGGESTED PATTERNS

The illustrations below are for reference only. The stud patterns may not apply to your make and model of snowmobile.
Install studs closer than 1" from the edge of track

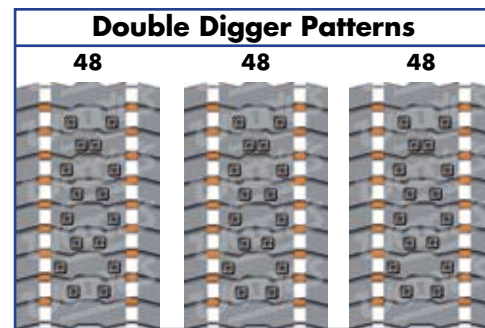
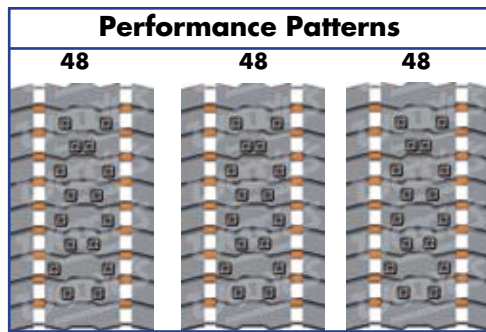


Stud competition suggested patterns

The illustrations below are for reference only. The stud patterns may not apply to your make and model of snowmobile. Install studs no closer than 1" from the edge of track.

48 studs and lock nuts

Size	Thread	PKG#
.875	7mm	389-9193
.920	7mm	389-9179
1.00	7mm	389-9195
1.200	7mm	389-9196
1.060	1/4"-28	389-9180



Stud patterns

Woody's® has developed STUD templates to simplify the layout of the stud patterns for most riding styles. The Track Marker makes transferring these patterns to the track easy. The illustrations are for reference only. The stud patterns may not apply to your make & model of snowmobile. When selecting a stud pattern that is right for you, please consider the following.

- 1- The track's center belt controls acceleration. The two smaller outside track belts can contribute to acceleration, but can increase cornering difficulty.
- 2- Studs closest to the slide rails provide the most effective traction, because the sled weight is concentrated in this area.
- 3- Install studs no closer than 1" from the edges of the track, measuring from the center of the stud. Avoid the middle of the center belt, as the support is poor in the area.
- 4- Do not place studs under the tunnel protector stripes. Tunnel protectors are vital and must not be subjected to damage from studs. Check the allowable clearance between the track & tunnel or heat exchangers. You must consider the suspension travel.
- 5- V-shaped stud patterns, in either direction with the least repetition, work best.

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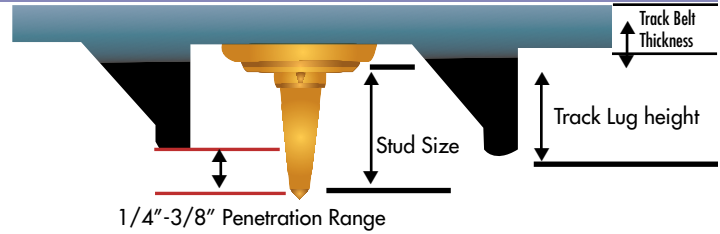
14 Traction

APPLICATION GUIDES

RUBBER TRACK

Selecting a stud length

Woody's® considers 1/4" to 3/8" penetration to be optimum. The penetration is measured from the tip of the stud to the top of the track lug. Review the Penetration Recommendation Chart to determine the appropriate stud length for the track that is installed on your snowmobile. Deviating from the recommended length may cause premature track wear, tunnel damage and /or loss control. Always consult your dealer and your owner's manual when installing studs and remember to balance the turning carbide length to the number of studs installed in your track.



Woody's® penetration recommendation for riding is 1/4" - 3/8"

LUG HEIGHT *VARIABLE -0-3%	STUD SIZE	PENETRATION RANGE *VARIABLE +/- .015	OVERALL LENGTH 5/16" STUD	GOLD DIGGER® TRACTION MASTER®	MEGA-BITE®	SIGNATURE SERIES™	GRAND MASTER™
				5/16"	5/16"	5/16"	5/16"
0.75	*0.875	.345-.375	1.26	389-9240	389-9620	-	-
0.82	0.875	.295-.325	1.26	389-9240	389-9620	-	-
	*0.920	.320-.350	1.327	389-9023	-	-	-
	1	.400-.430	1.41	389-9243	389-9621	389-8600	-
0.85	0.875	.245-.275	1.26	389-9240	389-9620	-	-
	*0.920	.310-.340	1.327	389-9023	-	-	-
	1	.370-.400	1.41	389-9243	389-9621	389-8600	-
0.88	0.875	.215-.245	1.26	389-9240	389-9620	-	-
	*0.920	.270-.300	1.327	389-9023	-	-	-
	1	.350-.380	1.41	389-9243	389-9621	389-8600	-
0.91	*1.000	.320-.350	1.41	389-9243	389-9621	389-8600	-
	1.075	.390-.420	1.485	389-9246	389-9622	389-8604	389-9786 (12)
0.92	*1.000	.310-.340	1.41	389-9243	389-9621	389-8600	-
	1.075	.380-.410	1.485	389-9246	389-9622	389-8604	389-9786 (12)
1	1	.220-.250	1.41	389-9243	389-9621	389-8600	-
	*1.075	.300-.330	1.485	389-9246	389-9622	389-8604	389-9786 (12)
1.1	*1.175	.320-.350	1.575	389-9249	389-9632	389-8608	-
1.25	*1.325	.320-.350	1.73	389-9281	389-9623	389-8612	389-9787 (12)
1.375	*1.450	.345-.375	1.852	389-8731	389-9638	389-8616	-

*Woody's® recommends .250 to .375" to be optimum penetration. Deviation from this recommendation can result in premature track wear, tunnel damage and/or loss of control.

TRAIL/TRACTION BALANCE RECOMMENDATION CHART

Consult your snowmobile owners manual or contact the dealer to determine the snowmobile's horsepower. It is essential that you have adequate tunnel protection.

Stud Quantity

Horse	Trail	Performance
50-60	48	96
60-75	72	96
75-100	96	120
100-125	120	144
120-130	144	168
125-150	168	192
130-170	192	192

Stud Quantity	Woody's® Runner Series
Up To 48	Top-Stock
Up To 72	Extender Trail II
72 - 144	Trail Blazer IV
144-192	Executive Series
168-192	Ultra Series

See Carbide Application Chart On Pages 271 to 281 for your Snowmobile Model

- These are recommendations only. Riding style and terrain must be considered.

Selecting stud design

Woody's® designs studs specifically for different riding terrain and levels of riding skill. To determine the type of stud to install, the snowmobile rider must evaluate not only the Woody's® traction and control products available, but also determine personal riding style and the terrain to be traveled. Two categories of studs are available, the conical and directional. Each category has several designs within to accommodate different riding styles and terrain. The conical studs, such as the Gold Digger® Traction Master® and the Excel™, are designed to penetrate hard-packed snow and ice. The directional studs, like the Mega-Bite®, are designed to hold more area for traction on softer ice and terrain. Woody's® studs are available with a 1/4", 7mm or 5/16" and 7mm are smaller in diameter at both the head and shank, therefore lighter. These studs require a 7mm support plate for a correct fit. Situations where these studs might be considered are racing (light weight) and where ultimate strength of a larger stud isn't necessary. The 5/46" studs have a larger head and shank. These studs require 5/16" support plates. Sleds over 100 horsepower (600cc range) and aggressive riding are good benchmarks for a decision to use 5/16" studs.

Support Plate Selection

Consider Round, Square, Double Digger®, Steel or Aluminum when determining the best support plate:

1. Round: use with 7mm or 1/4" studs that are .875" or shorter in Length; light weight. Available in steel or aluminum.
2. Square Steel: economical and strongest support plate available; recommended for all-purpose trail riding.
3. Square Aluminum: durable and light weight for performance.
4. Double Digger®: added support for performance; available in aluminum only.