



## 2022 Indy Cross Country Factory 600 Terrain Racing settings

All part numbers listed are Polaris part numbers unless otherwise noted.

**Fuel:** Use non-ethanol 91 octane premium pump gas, select 91-NON-fuel curve on vehicles digital dash display

**Oil Injection:** Use Polaris VES-Extreme synthetic 2-cycle oil (#2883733 -quart) or (#2883732 -gallon)

**Clutching Spec:** 10-64 weights (stock), 165/310 primary spring (Stock), 160/240 secondary spring (stock), 42-degree helix and #3211215 belt. Target RPM is 8400 to 8500

**Optional Clutching parts:** 150/290 primary spring (#7041645), 44-degree helix

\*Order the below clutch Helix's from Venom Products, [www.venomproducts.com](http://www.venomproducts.com)

**The Secondary clutch requires "Big Roller" Helix's.**

1-BR-011--42 STR BA35 ER, 1-BR-012 --44 STR BA35 ER (option Helix)

If you don't want reverse in the Helix you can order custom Helix's with ("Twin Trax") two separate angles from Venom. **Preferred option is a Non-reverse helix for racing.**

1-100070-1 --STR 42 Non-reverse/STR 44 Non-reverse Twin Trax

**Gearing:** 22 tooth top gear (Stock), 41 tooth bottom gear (Stock)

**Controls:** replace the stock kill switch with the push button below  
1-4010311 – push button kill switch

**Tracks:** Camso 136" Cobra (#5413655\*Stock) or Camso 136" Ripsaw2 (#2839216)

**Traction Products:** Contact Stud Boy Traction products at [www.studboytraction.com](http://www.studboytraction.com) .

**Sway Bar:** stock sway bar (.438") or no sway bar depending on course conditions

# POLARIS

## RACING

### **Suspension spring preloads:**

*IFS springs:* .750" preload on stock 125lb IFS spring

*FT spring:* .125" preload on stock race dual rate 135/185lb front track spring

*RT springs:* Medium/High on stock 13lb@80 degree torsion spring preload blocks

**WER Shocks:** The Walker Evans Racing shocks are calibrated for Terrain Racing. Below are the stock shock settings.

*IFS shocks:* Gas Pressure: 150-PSI, High Speed Comp: 5, Low Speed Comp: 9, Rebound: 2

*FT shock:* Gas Pressure: 200-PSI, High Speed Comp: 5, Low Speed Comp: 8

*RT shock:* Gas Pressure: 200-PSI, High Speed Comp: 5, Low Speed Comp: 4, Rebound: 1

**Skis:** Order skis from USI at [www.usi-skis.com](http://www.usi-skis.com)

USI SPX ski (#SPX-YW)

USI 301 high performance mount shoe (#po1-hpb)

or

Order skis from C&A Pro at [www.caproksis.net](http://www.caproksis.net)

XCS ski (#0410) or XPT ski (#0420)

Mounting Kit (#76000224)

**Venting:** Permitted Cross Country Factory 600 Venting: Additional venting is allowed on the 2022 Indy Cross Country sled. You must follow the Polaris Racing templates/directions exactly! No deviations will be allowed. To download the venting templates and directions visit the Polaris Snowmobile Racing website at <https://snowmobiles.polaris.com/en-us/team-polaris/racer-resources/>. Go to the **Cross-Country** section.

**Rules:** for the rules pertaining to this class go to the International Snowmobile Racing website, [www.isrracing.org](http://www.isrracing.org)

The suspension settings listed here are the starting point. Adjust suspension calibrations to course/snow conditions to maximize the vehicles handling.

To order any of the Polaris Parts listed on this sheet contact Scott Wilczek at the Polaris Race Dept. 715-355-3008 or [Scott.Wilczek@polaris.com](mailto:Scott.Wilczek@polaris.com)

For any race setup questions contact Ben Hayes at the Polaris Race Dept. 715-355-5157 or [Ben.hayes@polaris.com](mailto:Ben.hayes@polaris.com)

Details	Date												
	Location												
	Driver												
	Sled												
	Class												
		Practice			Heat 1			Heat 2			Final		
	Ambient temp F°												
	Density Alt												
	Track condition												
Engine	ECU Curve												
	Gauge setting	PREM	REG	PREM	REG	PREM	REG	PREM	REG	PREM	REG		
	Fuel Blend												
	Speed MPH												
	Spark plugs & Gap												
	EGT temp F°												
Clutching	Drive Belt												
	Belt length/Width	/			/			/			/		
	Flyweight style												
	Total flyweight												
	Added weight												
	Spider shims												
	Engage/Peak RPM	/			/			/			/		
	Primary spring												
	Secondary spring												
	Helix												
	Top/Bottom gear	/			/			/			/		
	Suspension	Skis/Toe out	/ "			/ "			/ "			/ "	
Carbides													
SwayBar													
IFS shock valve #													
Clicker settings		H-	L-	R-	H-	L-	R-	H-	L-	R-	H-	L-	R-
Spring rate													
Preload													
Oil side spacers													
FT shock valve #													
Clicker settings		H-	L-	R-	H-	L-	R-	H-	L-	R-	H-	L-	R-
Spring rate													
Preload													
FT arm height													
RT shock valve #													
Clicker settings		H-	L-	R-	H-	L-	R-	H-	L-	R-	H-	L-	R-
Spring rate													
Preload		/			/			/			/		
Oil side spacers													
Coupling blocks													
Stud style													
Stud count													
Stud pattern													



