



2023 Indy Matryx 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), 150/290 primary spring (stock), 160/240 secondary spring (stock), 58/44/.36 helix (stock) and #3212338 belt (stock). Target RPM is 8400 to 8500

Optional Clutching parts: 165/310 primary spring (#7041988)

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 .

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

Brakes: Order adjustable brake lever from Hayes Brakes (#98-39752 – stealth 88 Aluminum)
www.hayespowersports.com

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: 6

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: 2, Rebound: 1



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.


Data Acquisition: Order SnoPro Kompact from Precision Auto Research (www.precisionautoresearch.com)

Rules: for the rules pertaining to this class go to the International Snowmobile Racing website, 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

For any race setup questions contact Ben Hayes at the Polaris Race Dept. 715-355-5157 or 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		
	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-			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-			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-			H- L- R-					
Spring rate																			
Preload		/			/			/			/			/					
Oil side spacers																			
Coupling blocks																			
Stud style																			
Stud count																			
Stud pattern																			

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Heat 1 Comments:

Final Comments: