2024 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: .500" preload on stock 150lb IFS spring
*Optional softer IFS Springs are available: #7045096-458 – 125lb
FT spring: .125" preload on stock race dual rate 135/185lb front track spring
RT springs: Medium/Medium on stock 18lb@95 degree torsion spring preload blocks
*Optional softer rear torsion springs are available:
#7046150-329 – LH 16lb@87 degree and #7046151-329 – RH 16lb@87 degree

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: 6, Low Speed Comp: 11, 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: 5, Rebound: 5

Venting: Permitted Cross Country Factory 600 Venting: Additional venting is allowed on the 2024 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.

The Polaris Race Dept. has IFS shock covers available to protect the IFS shocks from roost (#0818049). Contact Scott Wilczek at Scott.Wilczek@polaris.com to order.

The Polaris Race Dept. has service manuals available for the MY24 Cross Country sled (#9941198). Contact Scott Wilczek at Scott.Wilczek@polaris.com to order.

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	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-**	**H- L-**	**H- L-**	**H- L-**
	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				

Comments

Practice Comments:

Heat 1 Comments:

Heat 2 Comments:

Final Comments: