



## 2026 Indy Matryx Cross Country Factory 600 ICE Racing settings

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

**Fuel:** Use **non-ethanol** 91 octane premium pump gas with Polaris Anti-Static fuel treatment, 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 (#7045965), 160/240 secondary spring (stock), 44-degree straight helix (custom order from Venom) and #3212338 belt (stock). Target RPM is 8300 to 8400

**Optional Clutching parts:** 150/290 primary spring (stock), 155/222 secondary spring (#7043063)

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

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

Straight 44 Non-reverse/Straight 46 Non-reverse Twin Trax Helix

***\*The Non-Reverse Helix is highly recommended for ICE Racing***

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

**At some racetracks taller gearing will deliver improved performance/speed.** Use 21 tooth top gear (#3221097) with 38 tooth bottom gear (#05-776-Wahl Brothers Racing Part #) and 68P Chain (#3221112)

**Controls:** Order the #RR-001-SGL Race Rubber from [www.race-rubber.com](http://www.race-rubber.com) and install over the kill switch knob

**Tracks:** Camso 136" Cobra (#5413655\*Stock) or Camso 136 Ripsaw1 (#2839969)

**Traction Products:** Contact Stud Boy Traction products at [www.studboytraction.com](http://www.studboytraction.com) . (176 stud's minimum are recommended for ice racing)

**Sway Bar:** .562" sway bar (#0617006 \*order from Race Dept.)

**Brakes:** Custom heated angled brake lever for stealth 88 master cylinder (#0818067 \*Order from Race Dept)



**Front torque arm:** Drill a new hole in the limiter straps to shorten the front arm travel length. Measuring from the top of the bump stop on the rail to the bottom of the torque arm the distance should be 1.625”

**RTA tunnel mount enclosure:** Install enclosure to inside of tunnel at RTA mount. Refer to separate tech tip on this part. Part must be ordered directly from Polaris Race Dept. (#0818039 – Tunnel enclosure kit)

**Suspension Springs:**

*IFS:* 125lbs/in coil over spring 10” x 2.25” I.D. (#7045096-458)

*Front track:* 125lb/in coil over spring 6” x 2.25” I.D. (#00818033 \*order from Race Dept.)

\*Optional softer FT spring: 80lb/in coil over spring 6” x 2.25” I.D. (#0617003 \*order from Race Dept.)

*Rear track:* 18lb/degree torsion springs at 95-degree preload. (Stock)

\*Optional rear torsion springs are available:

#7046419-329 – LH 20lb@95 degree and #7046420-329 – RH 20lb@95 degree

#7046150-329 – LH 16lb@87 degree and #7046151-329 – RH 16lb@87 degree

**Suspension spring preloads:**

*IFS Springs:* .500” preload on IFS springs

*FT Spring:* .125” to .250” preload on front track spring

*RT Springs:* Medium/Medium on torsion spring preload blocks

**Rear coupling blocks:** High position

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

USI X2 triple threat stage 1 ski (#X2)

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

or

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

XPT ski (#0420) (\*XPT skis are stock)

Mounting kit (#76000224)

**Venting:** Permitted Cross Country Factory 600 Venting: Additional venting is allowed on the 2026 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.

# POLARIS RACING

**Data Acquisition:** Order SnoPro Kompact from Precision Auto Research ([www.precisionautoresearch.com](http://www.precisionautoresearch.com))

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

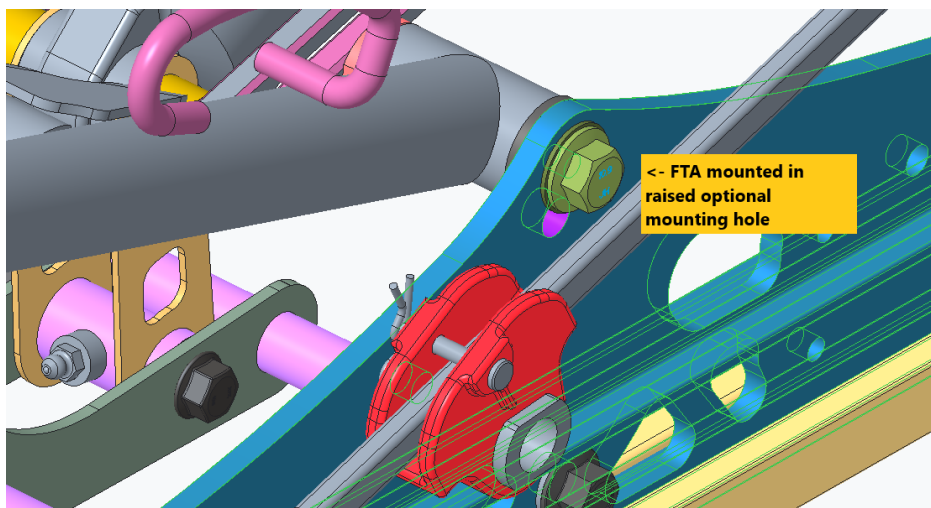
The suspension settings listed above are the starting point. Adjust suspension calibrations to course/ice conditions to maximize the vehicles handling.

The Polaris Race Dept. has service manuals available for the MY26 Cross Country sled (#9860040). Contact Scott Wilczek at [Scott.Wilczek@polaris.com](mailto:Scott.Wilczek@polaris.com) to order.

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)

\*The MY26 CC sled has a raised optional Front Torque Arm mounting hole in the rail. As seen in the below picture with the FTA installed in the raised optional mounting hole. This raised position will change how the vehicle reacts to throttle input. The vehicle will not lift the skis as much/transfer back in this setting. This raised optional position may require you to adjust the limiter strap to a longer setting to find the desired amount of ski pressure and vehicle balance.





Indy Cross Country 600 **ICE IFS** shock settings

Shock part number: 7046278/7046279

**Oil side spacer:** Total height of 2.300" (must be rebound adjustable shaft compatible! Available from Polaris Race Dept #0818042- shock internal spacer 2.1") use the stock .200" and race dept 2.100" to equal 2.300"

Piston: Gold 6 port, .052" bleed hole (drill out stock piston bleed to .052")

IFP height: 2.0"

Nitrogen PSI: **200**

Jounce bumper: Replace stock .750" long jounce bumper with # WER-1900107 - .400" long

Shock Extended length: 15.200"

Compression clickers: Low speed: 6 clicks out from stiff, High speed: 5 clicks out from stiff

Rebound clicker: 8 out from slow

**Compression**

**Rebound**

1.550 x 8

1.300 x 12

1.550 x 8

1.200 x 10

.900 x 12

1.000 x 10

1.450 x 8

.700 x 8

1.300 x 8

.600 x 15

1.200 x 10

.750 x .065 washer (x3)

1.100 x 10

.900 x 8

.800 x 8

torque shim stack nut to 15ft/lbs.

.700 x 15

1.500 x .120 plate

\*.400" long jounce can be purchased from Walker Evans Racing (<https://walkerevansracing.com/>)

Part Number #WER-1900107



Indy Cross Country 600 ICE Front Track shock settings

Shock part number: 7046417

Oil side spacer: 2.100" (must be rebound adjustable shaft compatible! Available from Polaris Race Dept #0818042- shock internal spacer 2.1")

Piston: Gold 6 port, .073" bleed hole

IFP height: 1.750"

Nitrogen PSI: **150**

Jounce bumper: STK .400"

Compression clickers: Low speed: 8 clicks out from stiff, High speed: 7 clicks out from stiff

Rebound clicker: 5 out from slow

Compression

Rebound

1.550 x 8	1.300 x 8
1.000 x 8	.700 x 8
1.550 x 8	1.200 x 8
1.200 x 8	1.100 x 12
1.450 x 8	.900 x 10
1.200 x 8	.700 x 8
1.000 x 8	.600 x 15
.900 x 8	.750 x .065 washer (x3)
.800 x 8	
.600 x 15	
1.000 x 15	torque shim stack nut to 15ft/lbs.
1.500 x .125 plate	



Indy Cross Country 600 ICE Rear Track shock settings

Shock part number: 7046418

**Oil side spacer:** Total height of 2.600" (must be rebound adjustable shaft compatible! Available from Polaris Race Dept #0818066- shock internal spacer 2.6") *\*Remove the stock .100" oil side spacer*

Piston: Gold 6 port, .042" bleed hole (Drill out stock piston bleed to .042")

IFP height: 2.0"

Nitrogen PSI: **200**

Shock Extended length: 16.550"

Compression clickers: Low speed: 6 clicks out from stiff, High speed: 5 clicks out from stiff

Rebound clicker: 1 out from slow

**Compression**

1.550 x 10  
1.550 x 12 (*Ring Shim*)  
1.300 x 6  
1.550 x 10  
1.550 x 10  
1.500 x 8  
1.300 x 8  
1.200 x 6  
.900 x 6  
.700 x 8  
.600 x 15  
.600 x 15  
1.500 x .125 plate

**Rebound**

1.300 x 10  
1.200 x 8  
1.100 x 8  
.900 x 10  
.700 x 10  
.600 x 15  
.750 x .060 washer (x2) or (x3)  
torque shim stack nut to 15ft/lbs

\*1.550 x 12 *Ring shim* can be purchased from Walker Evans Racing (<https://walkerevansracing.com/>)  
Part Number #WER-1800060



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



## ***\*Attention Polaris 2026 600 Cross Country Racers***

The MY26 600CC Race sleds have been built with the front track shocks rebound adjuster facing up. The rebound adjuster should be facing down (see below picture), so that it can be accessed with a flat blade screwdriver when the rear suspension is installed in the chassis. Remove the FTS upper bolt and rotate the shock shaft/eyelet 180 degrees. Reinstall and torque the FTS upper bolt.

