2017 600 XCR TLR Oval ICE Racing settings

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

Gearing: 21 tooth top gear (#3221097) 42 tooth bottom gear (#3222192)
70 pitch chain (33221115)

Tracks: Camoplast 121" Ripsaw2 (#2839214) , Camoplast 121" Cobra (#2877377) or Camoplast 121" Ripsaw (2839968). The Ripsaw track is preferred and all tracks can be ordered from the Polaris Race Dept.

Track clips: standard and tall track clips can be ordered from Wahl Brothers Racing, www.wahlracing.com

Tall clip – (#02-653) standard clip – (#02-651)

Suspension Springs:
IFS: 120lbs/in coil over spring 9" x 1.88"I.D. (#7041701-067)
Front track: 80lb/in coil over spring 6" x 2.25" I.D. (available form Race Dept)
Rear track: 150lbs/in coil over spring 8.75" x 1.88" I.D. (7043678-293)

Front track shock: light weight internal IFP Walker Evans Racing shock will also be available from the Race Dept., contact Ben Hayes for information at Ben.Hayes@polaris.com

Sway Bar: Pro S .531" sway bar (#5251975-329) and sway bar bushings 4x (#5437540)

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

Oil Injection: Use Polaris VES race synthetic 2-cycle oil (2878243-quart) or (2878191-gallon)

Clutching: Order the below clutch springs and helix from Venom Products, www.venomproducts.com
1-210135-010 – primary spring 165/327 (option spring) 1-955557 – secondary spring 175/240
1-LW420453 – straight helix 42/44 1-210135-013 – primary spring 180/320

Order the below secondary clutch spring, weights and drive belt from Polaris
1-7042198 – secondary spring 155/222 (option spring) 1-3211177 – drive belt
3-1321586 – 10/62weights (option weight)

Skis: Order skis from USI at 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
Razor (#0320)

Traction Products: Contact Stud Boy Traction products at www.studboytraction.com. (176 studs minimum are recommended for ice racing) *stud protectors are not required

Controls: replace the stock kill switch with the push button below and install the below tether asm. There is an open port for the tether under the fuel tank cowling in front of the fuel cap

1-4010311 – push button kill switch 1-4010849 – tether 1-7556212 – tether washer

Brakes: Hayes aluminum angled brake lever (#0617001) *(available from Race Dept)

Tunnel enclosure: order rear tunnel enclosure from Wahl Brothers Racing, www.wahlracing.com (#02-475-oval) - Polaris Rear Close Off, XCR Axys

Front torque arm: Drill a new hole in the limiter strap 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 3.5”

Suspension spring preloads: .500” preload on IFS spring, .125” preload on front track spring, 1.500” preload on rear track spring

Clutching Spec: 10-64 weights, 180/320 primary spring, 175/240 secondary spring, 42 degree helix and 3211177 belt. Target RPM is 8300 to 8400

Tail light: a current OEM production stock qualified snowmobile tail light is required. Light must remain illuminated at all times sled is in the field of competition, whether the engine is running or not.

Rules: for the rules pertaining to this class go to the International Snowmobile Racing website, www.isrracing.org

To order any of the Polaris Parts listed on this sheet contact Brad Seavers at the Polaris Race Dept 715-355-3008 or bradley.seavers@polaris.com)

For any race setup questions contact Ben Hayes at the Polaris Race Dept 715-355-5157 or Ben.hayes@polaris.com

Cross Country XCR **Ice IFS** shock settings

Shock part number: 7044564
Oil side spacer: .300”
Piston: Silver, flat .062” bleed hole
IFP height: 2.0”
Nitrogen PSI: 200
Jounce bumper: .750”tall (#1800462)
*Replace stock needle shaft with (#1800561) solid shock shaft
*Remove internal needle from piggyback
Compression clickers: Low speed: 6 clicks out from stiff
High speed: 5 clicks out from stiff

Compression	**Rebound**
1.300 x 6	1.200 x 8
1.000 x 12	.800 x 6
1.200 x 6	1.100 x 8
.900 x 12	1.000 x 10
1.100 x 6	.900 x 10
1.000 x 6	.800 x 10
.900 x 6	.700 x 10
.800 x 6	.625 x .063 washer
.700 x 6	
.625 x .063 washer	
.875 x .090 plate	

Cross Country XCR **Ice front track** shock settings

Shock part number: 7044562
Oil side spacer: 1.5”
Piston: Black 6 port, .063” bleed hole
IFP height: 1.750”
Nitrogen PSI: 200
Jounce bumper: remove jounce and plastic scraper
Compression clickers: Low speed: 6 clicks out from stiff
High speed: 5 clicks out from stiff

Compression	**Rebound**
1.550 x 8	1.300 x 8
1.200 x 8	.700 x 8
1.500 x 8	1.100 x 10
1.450 x 8	.900 x 10
1.300 x 8	.700 x 8
1.200 x 8	.750 x .065 washer
1.100 x 8	
1.000 x 8	
.900 x 8	
.800 x 8	
1.000 x .090 washer	
1.500 x .125 washer	

Cross Country XCR **Ice rear track** shock settings

Shock part number: 7044563
Oil side spacer: 1.0”
Piston: Silver, flat **.**052**”** bleed hole
IFP height: 2.000”
Nitrogen PSI: 200
*Replace stock needle shaft with (#1800561) solid shock shaft
*Remove internal needle from piggyback Remove needle from body loop
Compression clickers: Low speed: 6 clicks out from stiff
High speed: 5 clicks out from stiff

Compression	**Rebound**
1.300 x 10	1.250 x 10
1.300 x 12	.800 x 8
.900 x 12	1.200 x 10
1.300 x 10	1.000 x 10
1.200 x 10	.900 x 10
1.100 x 10	.800 x 10
1.000 x 10	.700 x 10
.900 x 10	(2).625 x .063 washer
.800 x 10	
.700 x 10	
.875 x .090 washer	