



2016 600R IQ Cross Country ICE Racing settings

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

Gearing: Order these gears from Team Industries, www.team-ind.com :

23 tooth top gear (#351352-008)

40 tooth bottom gear (#930268)

Polaris chain: 74 pitch chain (#3221109)

Tracks: Camoplast 128" Ripsaw (#9040H)

Tracks can be ordered from the Polaris Race Dept

Fuel Tank: Order fuel tank from Bunke Racing, www.bunkeracing.com :

12.5 gallon fuel tank (#TTIQR-2)

Windshield: Order this windshield from Power Madd, www.powermadd.com :

Cobra 13" tall tinted IQ race windshield (#10174010)

Suspension: You can install steel suspension springs or Titanium Renton Coil springs. RCS *Front track suspension spring is recommended.

Below are the Polaris steel suspension springs:

120lbs/in IFS coil over spring 2.250" I.D. (#7044439-067)

12"lb/deg torsion springs at 77 degrees preload (#7043466-329 LH & #7043467-329 RH)

Order these Titanium suspension springs from Renton Coil Spring at www.rentoncoilspring.com , contact Kyle Cabaya at kyle@rentoncoilspring.com

12"lb/deg torsion springs at 85 degrees preload (#STT465-16-4-199-85)

*130lbs/in x 6" FT coil over spring (#SCT-190-060-0130)

Sway Bar: Install the sway bar kit (#2203839), it is required to cut the front side of the a-arm bracket

Bogie Wheels: Install two bogie wheels on the inside of the rail just in front of the rail brace. Install two bogie wheels on the outside of the rail on the front approach angle (there are existing holes for these bogie wheel mounts)

4 boogie wheels (#1590317)

4 lower bolts (#7515317)

4 mounts (#5631065)

8 nuts (#7542324)

4 upper bolts (#7515346)

4 flat washers (#7556179)

Fuel: 50% VP110 race fuel with 50% 91/ pump fuel, Ignition timing clicker box on **D**

Oil Injection: Order the oil injection kit from the Polaris Race Dept (#PR1014)

Clutching: Order clutch weights from Speedwerx at www.speedwerxstore.com

Tapered tip 2 primary weights (#L2, 56.0 gram)

Clutch weight bushing (#RWB)

Order secondary spring and helix from Team Industries at www.team-ind.com :

Black/Green secondary spring (#210186)

Helix 58-40-.46/58-42-.46 (#LW420546)

Skis: Order skis from USI at www.usi-skis.com

USI X2 triple threat stage 1 ski (#X2)

USI SPX saddle (#pol-hp)

To maintain legal carbide center to center distance with the Ice racing shock lengths you will need to purchase an Ice racing ski kit from the Polaris Race Dept, contact bradley.seavers@polaris.com

Tunnel heat exchangers: If you are going to run studs on the outside edge of the track you must install narrower heat exchangers. (#1240127). For 2015 IQ R's you will also need to get heat exchanger extensions from the Polaris Race dept, contact bradley.seavers@polaris.com

Rear torque arm position: Rear torque arm to be mounted in the stock tunnel hole location.

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 3.5" to 3.625".

Coupling blocks: Remove the front and rear coupling blocks

Steel spring preloads: .750" preload on IFS spring, High/High preload on rear torsion springs

RCS Titanium spring preloads: .250" preload on FT spring (installed), Med/Med preload on rear torsion springs

Clutching: L2's with 1gram of tip weight added, 165/310 primary spring, 140-220 secondary spring, 40 degree helix. Shim Primary clutch to drive belt for proper clearance. Target RPM is 8700 to 8900 with 8750 to 8800 optimum RPM

If you have an earlier model year 600R IQ race sled please contact Ben Hayes at the Polaris Race Dept (715-355-5157 ext12 or ben.hayes@polaris.com) to get information on upgrading your suspension.

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)



Cross Country Ice IFS shock valve code

Shock part number: 7044346

Oil side spacer: 1.750"

Negative Spring: Remove

Piston: Dished Red/Blue .052" bleed hole

IFP height: 2.500"

Nitrogen PSI: 200

Jounce Bumper: 1"

Compression clicker: Low speed: 15 clicks out from stiff

High speed: 15 clicks out from stiff

Rebound clicker: 7 clicks out from slow

Compression

.900 x 12
.900 x 15
(4)1.450 x 8
1.300 x 10
.900 x 10
1.100 x 6
1.000 x 6
.900 x 6
.800 x 6
.700 x 10
1.500 x .125 plate

Rebound

.900 x 10
.900 x 12
1.450 x 12
(2)1.300 x 12
.800 x 10
1.200 x 8
.900 x 8
.800 x 8
.750 x .065 washer



Cross Country Ice front track shock valve code

Shock part number: 7044544

Oil side spacer: 1.500"

Piston: Flat silver .062" bleed hole

IFP height: 1.520"

Nitrogen PSI: 200

Compression Clicker: Low speed: 16 clicks out from stiff
High speed: 18 clicks out from stiff

Compression

1.300 x 10
.700 x 10
1.250 x 12
1.200 x 12
1.100 x 12
1.000 x 12
.900 x 12
.800 x 12
.700 x 10
.700 x 8
.625 x .063 washer
.875 x .090 washer

Rebound

1.250 x 8
1.250 x 10
1.200 x 8
1.100 x 8
1.100 x 10
1.000 x 8
.900 x 8
.800 x 8
.700 x 8
.625 x .063 washer



Cross Country **Ice rear track** shock valve code

Shock part number: 7044543

Oil side spacer: 1.500"

Piston: Flat silver .052" bleed hole

IFP height: 2.000"

Nitrogen PSI: 200

Compression clicker: Low speed: 16 clicks out from stiff

High speed: 18 clicks out from stiff

Rebound clicker: 4 clicks out from slow

Compression

1.550 x 12

1.500 x 10

1.000 x 12

1.550 x 12

1.500 x 12

1.450 x 12

1.300 x 10

1.200 x 10

1.100 x 10

.900 x 10

1.000 x .065 washer

Rebound

1.500 x 10

1.000 x 8

1.450 x 12

1.300 x 12

1.200 x 12

1.100 x 10

1.000 x 10

.900 x 10

1.000 x .065 washer

1.500 x .125 plate