



2016 600 Rush Pro S Cross Country ICE Racing settings

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

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

Tracks: Camoplast 120" Ripsaw2 (#5414653) , Camoplast 120" Cobra (#2877748) or Camoplast 120" Ripsaw (5413645). Tracks can be ordered from the Polaris Race Dept.

Suspension Springs:

IFS: 120lbs/in coil over spring 9" x 1.88" I.D. (#7041701-067)
Front track: 100lb/in coil over spring 7" x 1.88" I.D. (7041678-067)
Rear track: 150lbs/in coil over spring 8.75" x 1.88" I.D. (7043678-293)

Sway Bar: stock Pro S sway bar

Bogie Wheels: replace stock bogie wheels with the below solid bogie wheels. The below mounts and hardware are required for the solid bogie wheels.

6-1590317 – Solid bogie wheel asm 6-5631065 - Wheel mount 6-7515346 - bolt, long
6-7515317 - Bolt, short 6-7556179 – Spring washer 12-7542324 – Nylok nut

Rear axle: Replace the three stock rear axle wheels with the four solid wheels below. The below spacer and washer is required to install 4 rear axle wheels.

4-1590426 – Solid axle wheel asm 1-5333283 – rear axle spacer 1-7555918 – rear axle washer

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)

Brakes: Performance brake kit available from the Polaris Race Dept. Contact Brad Seavers to order, Bradley.seavers@polaris.com. Below are the contents of the brake kit

1-performance brake rotor 2-type 81 performance brake pads 1-external brake scoop

Clutching: Order the below clutch springs and helix from Team Industries, www.team-ind.com
1-210135-010 – primary spring 165/327 1-955557 – secondary spring 175/240 (option spring)
1-LW420453 – straight helix 42/44

Order the below secondary clutch spring and drive belt from Polaris
1-7042198 – secondary spring 155/222 1-3211177 – drive belt

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)

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

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

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 4”

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, 165/327 primary spring, 155-222 secondary spring, 42 degree helix and 3211177 belt. Target RPM is 8250 to 8300

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



POLARIS[®]

RACING

Cross Country Rush Pro S **Ice IFS** shock valve code

Shock part number: 7044120

Oil side spacer: 1.850"

Piston: Silver, flat .041" bleed hole

Shaft bleed: .086"

IFP height: 2.0"

Nitrogen PSI: 200

Jounce bumper: .750"

Compression clicker: 5 clicks out from stiff

Compression

1.300 x 6

1.000 x 12

1.200 x 6

.900 x 12

1.100 x 6

1.000 x 6

.900 x 6

.800 x 6

.700 x 6

.625 x .063 washer

.875 x .090 plate

Rebound

1.200 x 8

1.100 x 8

1.000 x 10

.900 x 10

.800 x 10

.700 x 10

.625 x .063 washer



POLARIS®

RACING

Cross Country Rush Pro S Ice front track shock valve code

Shock part number: 7043956

Oil side spacer: 1.0"

Piston: Silver, flat .078" bleed hole

IFP height: 1.875"

Nitrogen PSI: 200

Jounce bumper: .850" with plastic scraper

Compression Clicker: 10 clicks out from stiff

Compression

1.300 x 8

.800 x 12

1.250 x 10

.900 x 8

1.200 x 8

1.100 x 8

1.000 x 8

.900 x 8

.800 x 8

.700 x 8

.625 x .063 washer

.875 x .090 washer

Rebound

1.250 x 8

.800 x 8

1.200 x 8

1.100 x 8

1.000 x 8

.900 x 8

.800 x 8

.700 x 8

.625 x .063 washer



POLARIS[®]
RACING

Cross Country Rush Pro S Ice rear track shock valve code

Shock part number: 7043959

Oil side spacer: .850"

Piston: Silver, flat .055" bleed hole

IFP height: 2.000"

Nitrogen PSI: 200

Replace stock needle style shock shaft with (#1800561) solid shock shaft

Remove needle from body loop

Compression clicker: 7 clicks out from stiff

Compression

1.300 x 10

1.300 x 12

.900 x 12

1.300 x 10

1.200 x 10

1.100 x 10

1.000 x 10

.900 x 10

.800 x 10

.700 x 10

.875 x .090 washer

Rebound

1.250 x 10

.800 x 8

1.200 x 10

1.000 x 10

.900 x 10

.800 x 10

.700 x 10

(2).625 x .063 washer



POLARIS[®]
RACING

Cross Country Rush Pro S Plowed Smooth Ice IFS shock valve code

Shock part number: 7044120

Oil side spacer: 2.300"

Piston: Silver, flat .041" bleed hole

Shaft bleed: .086"

IFP height: 2.0"

Nitrogen PSI: 200

Jounce bumper: .750"

Compression clicker: 5 clicks out from stiff

Compression

1.300 x 6

1.000 x 12

1.200 x 6

.900 x 12

1.100 x 6

1.000 x 6

.900 x 6

.800 x 6

.700 x 6

.625 x .063 washer

.875 x .090 plate

Rebound

1.200 x 8

1.100 x 8

1.000 x 10

.900 x 10

.800 x 10

.700 x 10

.625 x .063 washer



POLARIS[®]

RACING

Cross Country Rush Pro S Plowed Smooth Ice front track shock valve code

Shock part number: 7043956

Oil side spacer: 1.0"

Piston: Silver, flat .078" bleed hole

IFP height: 1.875"

Nitrogen PSI: 200

Jounce bumper: .850" with plastic scraper

Compression Clicker: 10 clicks out from stiff

Compression

1.300 x 8

.800 x 12

1.250 x 10

.900 x 8

1.200 x 8

1.100 x 8

1.000 x 8

.900 x 8

.800 x 8

.700 x 8

.625 x .063 washer

.875 x .090 washer

Rebound

1.250 x 8

.800 x 8

1.200 x 8

1.100 x 8

1.000 x 8

.900 x 8

.800 x 8

.700 x 8

.625 x .063 washer



POLARIS[®]
RACING

Cross Country Rush Pro S Plowed Smooth Ice rear track shock valve code

Shock part number: 7043959

Oil side spacer: 1.200"

Piston: Silver, flat .055" bleed hole

IFP height: 2.000"

Nitrogen PSI: 200

Replace stock needle style shock shaft with (#1800561) solid shock shaft

Remove needle from body loop

Compression clicker: 7 clicks out from stiff

Compression

1.300 x 10

1.300 x 12

.900 x 12

1.300 x 10

1.200 x 10

1.100 x 10

1.000 x 10

.900 x 10

.800 x 10

.700 x 10

.875 x .090 washer

Rebound

1.250 x 10

.800 x 8

1.200 x 10

1.000 x 10

.900 x 10

.800 x 10

.700 x 10

(2).625 x .063 washer

