



2018 600 XCR Switchback 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: Camso 136" Cobra (#5413655 *Stock) or Camso 136" Ripsaw (#9969H *Camso direct part number)

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. (#0617003 *order from 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., (#0617012) and 85lb/in coil over spring 6" x 1.88" I.D. (#0617008)

Sway Bar: Pro S .531" sway bar (#5251975-329) and sway bar bushings 4x (#5437540) or Optional stiffer .562" sway bar (#0617006 *order from Race Dept)

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 (option spring)
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
1-7043063 – secondary spring 155/222 1-3211165 – drive belt (Stock)
3-1321584 – 10/66 weights (option weights)



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RACING

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.caproksis.net
XPT ski (#0420)
Mounting kit (#76000224)

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)

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, 155/222 secondary spring, 42 degree helix and 3211165 belt. Target RPM is 8350

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



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RACING

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

1.300 x 10

1.000 x 12

1.200 x 8

.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

1.250 x 8

.800 x 6

1.100 x 8

1.000 x 10

.900 x 10

.800 x 10

.700 x 10

(2) .625 x .063 washer



POLARIS[®]

RACING

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

1.550 x 8

1.500 x 8

1.000 x 8

1.450 x 8

1.300 x 8

1.200 x 8

1.100 x 8

.900 x 8

.800 x 8

.700 x 10

1.500 x .125 washer

Rebound

1.300 x 10

.700 x 8

1.100 x 8

.700 x 8

.600 x 15

.750 x .065 washer



POLARIS[®]

RACING

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

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 XCR Plowed Smooth Ice IFS shock settings

Shock part number: 7044564

Oil side spacer: .600"

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

1.300 x 10

1.000 x 12

1.200 x 8

.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

1.250 x 8

.800 x 6

1.100 x 8

1.000 x 10

.900 x 10

.800 x 10

.700 x 10

(2).625 x .063 washer



POLARIS[®]

RACING

Cross Country XCR Plowed Smooth 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

1.550 x 8

1.500 x 8

1.000 x 8

1.450 x 8

1.300 x 8

1.200 x 8

1.100 x 8

.900 x 8

.800 x 8

.700 x 10

1.500 x .125 washer

Rebound

1.300 x 10

.700 x 8

1.100 x 8

.700 x 8

.600 x 15

.750 x .065 washer



POLARIS®

RACING

Cross Country XCR Plowed Smooth Ice rear track shock settings

Shock part number: 7044563

Oil side spacer: 1.2"

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

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