

POLARIS® IQ® RACE SLED

MY2015 // 09. 2014

2015 POLARIS® IQ® RACE SLED FEATURES NEW WALKER EVANS SHOCK PACKAGE THAT HAS WON TITLES & GIVES RACERS MORE ADJUSTABILITY THAN EVER BEFORE

Polaris snowmobile racers head into the season with optimism and confidence fueled by their racing on the new 2015 Polaris IQ® Race Sled, the only pure race sled on the snocross circuit. Polaris racers will enjoy the greatest range of ride and handling adjustability ever from the completely new Walker Evans® Racing shock package that was developed through extensive testing and racing.

“Our shocks in recent seasons have been really good, but we spent the better part of two years developing this new sled in conjunction with Walker Evans Racing,” said Polaris Racing Manager Tom Rager, Jr. “The big benefit is adjustability. These are high-low rebound-adjustable shocks that have a different kind of rebound than most shocks, and the design keeps the clickers separate from each other so they don’t affect each other when you make adjustments to one of them.”

Top Polaris racers such as Kody Kamm, Ross Martin, and Justin Broberg tested the shocks and new race sled extensively last spring and came away with specialized suspension setups that suited their individual racing styles. The shock package was also used last season on title-winning race sleds in the United States and Canada.

“Leighton Motorsports and the Rockstar Energy Polaris team in Canada have both been running this package for two years as prototypes,” Rager said. “Corin Todd [Leighton] won the ISOC Pro Lite championship running those shocks last winter, and Iain Hayden [Rockstar Energy] won the Pro national title in Canada.”

Polaris has historically developed high-performance technology on race sleds, then implemented versions of these components and designs on consumer sleds. Such features include legendary Polaris IFS, the lightweight crankshaft, high/low compression-adjustable shocks, carbon fiber overstructure, rider balanced positioning, and more.

KEY FEATURES ON THE 2015 POLARIS IQ RACE SLED

NEW WALKER EVANS RACING SHOCK PACKAGE

- IFS shocks and rear track shock are Walker Evans Aluminum IFP 16 Position Compression Adjustable Shocks with Piggyback Reservoirs
- IFS shocks and rear track shock are high/low/rebound adjustable
- Front track shock is a Walker Evans Coil Over Shock with 16-position compression adjustability

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- Front track shock is high/low adjustable
- Clickers on each shock are in isolated positions for easy adjustment without affecting one another
- IFS shocks have a 2"-diameter shock body, up from 1.75"; the increased area accommodates more shock fluid, helping to keep the fluid cooler during racing
- IFS travel is 10.3" (26.1 cm) and rear suspension travel is 13.9" (35.3 cm)
- The shock designs let teams make changes quickly on the track and at trackside between motos

128" REAR SUSPENSION

- Polaris 128" rear suspension with 128" track provides outstanding traction
- This setup delivers outstanding holeshots, better stability in whoops sections, and improved cornering
- This rear suspension tracks straighter in the whoops sections, and helps minimize ski lift for enhanced turning
- The track is an aggressive 15" x 128" x 1.75" Sno-XT track

PROVEN POLARIS IQ® CHASSIS

- 2015 IQ Race Sled is built on the strong, durable, lightweight Polaris-exclusive IQ® Chassis
- Advanced assembly techniques minimize sled weight and the number of parts used
- Design, materials, and manufacturing processes provide maximum strength and durability

POLARIS LIBERTY® 600 ENGINE

- Liquid-cooled 600 twin delivers best-in-class acceleration for outstanding holeshots
- Engine delivers impressive horsepower across the entire RPM range
- Twin Mikuni Rack TM 40 carburetors
- NiCaSil-lined cylinders for efficient heat dispersion
- Polaris VES (Variable Exhaust System) for maximum power and instant throttle response
- Sled uses legendary Polaris P-85 drive clutch and Lightweight TEAM® Roller driven clutch

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LIGHTWEIGHT CRANKSHAFT

- Has a 2.5-pound weight reduction in rotating mass compared to the previous crankshaft
- Inertia is reduced by 25%, and throttle response and acceleration are enhanced
- This all adds up to improved holeshots and the engine reaching its optimal operating RPM faster
- In ISOC Pro Open finals in 2013-2014, Polaris racers grabbed 10 of 17 holeshots (59%)

PREMIUM BRAKE PADS

- Hayes® Type 126 brake pads deliver consistently reliable braking as brakes heat up during racing
- They also help to extended brake pad life
- Liquid-cooled brake system uses Cyclone master cylinder and “Phantom” dual piston caliper

NEW 2015 RACING GRAPHICS

- New racing paint scheme features black hood and low windshield, with red side panels and front skid plate
- Racing seat is black and red with Polaris graphics
- Hood and side panels feature Polaris 600 R graphics

ABOUT POLARIS

Polaris® is a recognized leader in the powersports industry with annual 2013 sales of \$3.8 billion. Polaris designs, engineers, manufactures and markets innovative, high quality off-road vehicles, including all-terrain vehicles (ATVs) and the Polaris *RANGER*® and RZR® side-by-side vehicles, snowmobiles, motorcycles and on-road electric/hybrid powered vehicles.

Polaris is among the global sales leaders for both snowmobiles and off-road vehicles and has established a presence in the heavyweight cruiser and touring motorcycle market with the Victory and Indian Motorcycle brands. Additionally, Polaris continues to invest in the global on-road small electric/hybrid powered vehicle industry with Global Electric Motorcars (GEM), Goupil Industrie SA, Aixam Mega S.A.S., and internally developed vehicles. Polaris enhances the riding experience with a complete line of Polaris Engineered Parts, Accessories and Apparel, Klim branded apparel and ORV accessories under the Kolpin and Cycle Country brands.

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Polaris Industries Inc. trades on the New York Stock Exchange under the symbol "PII", and the Company is included in the S&P Mid-Cap 400 stock price index.

Information about the complete line of Polaris products, apparel and vehicle accessories are available from authorized Polaris dealers or anytime at www.polaris.com.

SPECIFICATIONS

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DIMENSIONS/CAPACITIES

Height (approx., in./cm)	47 / 119
Length, incl. skis (in./cm)	117 / 297
Ski Length (in./cm)	39.62 / 100.6
Ski Center Distance (in./cm)	43 / 109
Ski Width (in./cm)	5.5 / 14.0
Width, maximum (in./cm)	48 / 122
Fuel Tank Capacity (gal/l.)	4.0 / 15.1
Coolant Capacity (qts/l.)	5.7 / 5.4
Oil Capacity (qts/l.)	N/A - Premix 32:1

MATERIALS

Bulkhead Type	Aluminum / Chromoly
Tunnel	Aluminum
Hood	TPO
Nose Pan	TPO
Bumper, Front	Chromoly / Steel
Bumper, Rear	Aluminum
Seat	Racer

ENGINE

Engine Model Number	S4954-6044-016J
CC's, Cooling, Cylinders	599
Bore & Stroke (mm)	73.8 x 70
Carburetion	Mikuni Rack - TM 40
Oil Injection	N/A (pre-mix 32:1)
Alternator Output	220 W
Ignition	Digital
Cylinder Plating	NiCaSil
Exhaust	Polaris VES, Single Pipe
Minimum Fuel Octane	92 Non-Oxygenated

CLUTCHING/GEARING

Drive Clutch	P-85
Drive Clutch Weight	10-58
Drive Clutch Spring	Almond / Red
Center Distance (in./cm)	10.625 / 27
Driven Clutch Type	Lightweight TEAM™ Roller
Driven Clutch Helix	(70 / 44-46) (66 / 44-46)
Drive Shaft Sprockets	9T Slip Race Design
Gearing/Chain	19.45 76 P

BRAKES

Type	Cyclone Master Cylinder/Lever, Liquid Cooled, "Phantom" Dual Piston Caliper Hayes Type 126 Brakes Brake Pads
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TRACK

Pattern	Sno-XT
Width/Length/Height (in)	15 x 128 x 1.75
Tunnel Wear Strips	Standard Race Coolers

FRONT SUSPENSION

Front Shocks	Walker Evans 2.0" Bore Aluminum Piggy Back 22 / 28 Position High/Low Speed Comp. Adj. 16 Position Rebound Adj.
Front Springs (lb/in / n/mm)	200 / 35.0
Torsion Bar (in/cm)	N/A
Travel (in/cm)	10.3 / 26.1

REAR SUSPENSION

Type	IQ - RACE
Front Track Shock	Walker Evans Aluminum Piggy Back 22 / 28 Position High/Low Speed Comp. Adj.
Rear Track Shock	Walker Evans 2.0 Bore Aluminum Remote Reserveir, 22 / 28 Position High/Low Speed Comp. Adj., 16 Position Rebound Adj.
Rear Spring Type	Torsion
Rear Spring Dia. (in/cm)	.405 / 1.03, 90 degree
Rear Axle Travel (in/cm)	13.9 / 35.3
FTS Spring Rate (lb/in / n/mm)	180 / 31.5

ELECTRICAL

Headlight Type	Halogen (2-60/55)
Hand/Thumb Warmer	Standard, Multi-range

FEATURES

Speedometer	Accessory
Tachometer	Standard
Ignition Switch	Tether w/ Stop Switch
Fuel Gauge	N/A
Electric Start	N/A
Reverse	N/A
Ski Type	Saddle-less Composite
Ski Runner	Not Included
Skid Plate	Standard
Parking Brake	Standard

GRAPHICS/COLORS

Hood Color	Black
Nose Pan Color	Red
Tunnel Color	Unpainted
Accent Colors	Red, Black, Silver, White

Polaris (U.S. & Canada) - 2015 600 IQ Racer (S49546044016J)

Polaris Industries Inc. - 2100 Highway 55, Medina MN 55340

POLARIS RESERVES THE RIGHT TO CHANGE SPECIFICATIONS AT ANY TIME WITHOUT INCURRING OBLIGATION.

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15"X128"X1.75" SNO-XT TRACK

NEW REAR TRACK SHOCK:

Walker Evans 2.0"-bore
Aluminum Piggyback 22/28
Position High / Low Speed Comp.
Adj., 16-Position Rebound Adj. Shocks

LIQUID-COOLED BRAKING: Cyclone master cylinder,
"Phantom" dual piston caliper, Hayes® Type 126 brake pads

POLARIS LIBERTY® 600 ENGINE

NEW IFS SHOCKS: Walker Evans 2.0"-
bore Aluminum Piggyback 22/28 Position
High/Low Speed Comp. Adj., 16-Position
Rebound Adj. Shocks

REAR AXLE TRAVEL: 13.9"/35.3 cm

IFS TRAVEL: 10.3"/26.1 cm

NEW FRONT TRACK SHOCK: Walker Evans
Aluminum Piggyback 22/28 Position High/
Low Speed Comp. Adj. Shocks

**POLARIS P-85 DRIVE CLUTCH/
LIGHTWEIGHT TEAM® ROLLER
DRIVEN CLUTCH**

