

SPEEDWERX

STRAIGHT-UP USA HORSEPOWER

2009 ARCTIC CAT 600SX ENGINE / PIPE PACKAGE SPECIFICATION SHEET

ENGINE

Displacement	599cc
Bore	73.80mm
Stroke	70mm
Cylinder Head	AC609SX-15
Squish Clearance	(.052" - .057")
Piston/Cylinder (Clearance)	(.005" - .006")
Piston/Cylinder (Service Limit)	(.008" - .0085")
Operating RPM	8500 - 8750

FUEL REQUIREMENTS

Fuel	Arctic 116 (NEW 2008)
Oil	Arctic APV
Mix Ratio	18oz.: 5 Gallons
BREAK-IN MIX RATIO (SEE BACK PAGE)	32oz.: 5 Gallons

IGNITION

Ignition Timing Check	25° @ 3,000 - 4,500 RPM
Spark Plugs	NGK BR9EYA or BPR9ES
Spark Plug Gap	(.018")

TORQUE SPECIFICATIONS

Head Bolts	18-20 Ft/Lbs
Cylinder Base Bolts	30-40 Ft/Lbs
Powervlve Bodies	8-10 Ft/Lbs
Exhaust Flanges	13-16 Ft/Lbs

CARBURETION

Carburetors	Mikuni Flatslide 40mm
Main Jet	460 RACE FUEL / 480 PUMP FUEL
Pilot Jet	50 (Stock)
Needle	9DGH18-53 (Stock)
Slide	2.0 (Stock)
Reed Valves	V-Force Delta 3 (V3112-883B-2)

CLUTCHING

Clutch Weights	P-7N (56.0 Grams - Adjustable)
Primary Spring	CCH5-165-310 (H5 Alloy Blue) (Stock)
Driven Helix	64-48-.36/68-48-.36 (Stock #0648-789)
Driven Spring	Team 180-300 (CCH5-J-180-300)

SEE REVERSE SIDE FOR BREAK-IN PROCEDURE!

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BREAK-IN PROCEDURE

STEP 1

Mix Fuel @ 32oz. of Oil to 5 Gallons of fuel. Then fill tank.

STEP 2

Start engine and let idle for 5 minutes. MAKE SURE ENGINE DOES NOT OVERHEAT! Then turn off the engine.

STEP 3

Let engine cool to ambient temperature.

STEP 4

Restart engine and repeat steps 2 & 3.

STEP 5

Start and operate machine without extended wide-open throttle operation until the 1st complete tank of break-in fuel mixture has been run through your machine.