

General Information

MODEL SPECIFICATIONS

2010 600 RUSH

Model Numbers:
S10BF6KSA / S10BF6KSL / S10BF6KEA

Engine

Engine Type	Liberty Liquid-Cooled / Case Reed Induction
Model Number	S4202-6044-OP6N
Displacement / # Cylinders	599cc / 2
Bore (inches/mm)	3.04 / 77.25
Stroke (inches/mm)	2.52 / 64
Piston to Cylinder Clearance (inches/mm)	.0033-.0054 / 0.085-0.137
Installed Ring Gap (inches / mm)	.014-.020 / 0.356 - 0.508
Operating RPM ±200	8250
Idle RPM	1700
Engagement RPM ±200	3800
Exhaust Valve Spring	Purple
Thermostat Opening Temperature (° F / ° C)	120 / 49

Fuel Delivery

Type - Number of Fuel Injectors	DC-CFI - 4
Throttle Body Marking	1203978
Throttle Body Bore	46mm
TPS Voltage @ Idle (5 VDC +/- .01 Input)	0.95 +/- 0.01 VDC
Fuel Pressure - PSI (bar)	58-60 (4.0-4.1)
Fuel Octane (R+M/2) 10% Ethanol 24Ω Resistor	<91 Octane (Non-Oxygenated) OR 87/89/91+ (Up to 10% Oxygenated)
Premium/Non-Ethanol 160Ω Resistor	91+ (Non-Oxygenated)

Clutch Settings

ALTITUDE meters (feet)	DRIVE CLUTCH		P2 DRIVEN CLUTCH		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-64	BLACK 120 - 310 7043601	130 - 180 Tabbed 7043515	58/42 - .45 5137176	23:39 - 72
600-1200 (2000-4000)	10-62				22:39 - 72
1200-1800 (4000-6000)	10-60				22:40 - 72
1800-2400 (6000-8000)	10-58				20:41 - 72
2400-3000 (8000-10,000)	10-56				
3000-3600 (10,000-12,000)	10A-L				

Drive Clutch Bolt Torque: 80 lb.ft. (108Nm)
Re-torque after running engine.

Clutch Settings (Electric Start Models)

ALTITUDE meters (feet)	DRIVE CLUTCH		P2 DRIVEN CLUTCH		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-64	BLK/GRN 120 - 340 7042083	130 - 180 Tabbed 7043515	58/42 - .45 5137176	23:39 - 72
600-1200 (2000-4000)	10-62				22:39 - 72
1200-1800 (4000-6000)	10-60				22:40 - 72
1800-2400 (6000-8000)	10-58				20:41 - 72
2400-3000 (8000-10,000)	10-56				
3000-3600 (10,000-12,000)	10A-L				

Drive Clutch Bolt Torque: 80 lb.ft. (108Nm)
Re-torque after running engine.

NOTE: OPTIONAL - USE 2 GRAM LIGHTER CLUTCH WEIGHTS WHEN OPERATING IN PROLONGED WARM TEMPERATURES (LATE FALL/SPRING SEASON) TO MAINTAIN PEAK OPERATING RPM.

Track

Width - Inches (cm)	15 (38)
Length - Inches (cm)	120 (304.8)
Pitch	2.86
Plies	2
Lug Height - Inches (cm)	1.25 (3.175) (Ripsaw)
Track tension sag in/cm with 10 lbs/4.54kg placed 16 in/40cm ahead of rear idler shaft	7/8" - 1-1/8" (2.2 - 2.9cm)