

# Model Specifications

## SPECIFICATIONS

### 2007 600 HO IQ

Model Number: S07PP6FS (A) (B)

#### Engine

Engine Type	Liberty Liquid-Cooled / Case Reed Induction
Model Number	S3273-6044-PF6F
Displacement / # Cylinders	599cc / 2
Bore (inches/mm)	3.04 / 77.25
Stroke (inches/mm)	2.52 / 64
Piston to Cylinder Clearance (inches/mm)	.004 - .006 / .105 - .159
Installed Ring Gap (inches / mm)	.014 - .020 / .356 - .508
Operating RPM ±200	8100
Idle RPM ±200	1500
Engagement RPM ±200	3800
Exhaust Valve Spring	Pink
Thermostat Opening Temperature (° F/ ° C)	120 / 49

#### Carburetor Settings

Type	Mikuni TM38
Main Jet	420
Pilot Jet	50
Jet Needle/Clip position	9DGN6-57 / 2
Needle Jet	P-8
Throttle Gap (Under Cutaway) (in/mm)	0.08 / 2.1
Cutaway	1.5 Notch
Valve Seat	1.5
Starter Jet	145
Pilot Air Jet	.6
Fuel screw (Turns Out)	1.25
Fuel Octane (R+M/2) Recommended Minimum	91 Oxygenated 87 Non-Oxygenated

#### Carburetor Jetting

Altitude Meters (feet)	Ambient Temperature							
	< -25°F / < -35°C	-30°F to -10°F / -34°C to -23°C	-15°F to +5°F / -26°C to -15°C	0°F to +20°F / -18°C to -7°C	+15°F to +35°F / -9°C to +2°C	+30°F to +50°F / -1°C to +10°C	+45°F to +65°F / +7°C to +18°C	> +60°F / > +16°C
0-600 (0-2000)	440 #3	430 #3	420 #2	400 #2	390 #2	380 #2	370 #2	360 #1
600-1200 (2000-4000)	410 #3	400 #3	390 #2	370 #2	360 #2	350 #2	340 #1	330 #1
1200-1800 (4000-6000)	370 #3	360 #2	350 #2	340 #2	330 #2	320 #1	310 #1	300 #1
1800-2400 (6000-8000)	340 #3	320 #2	310 #2	300 #2	280 #2	280 #1	270 #1	260 #1
2400-3000 (8000-10,000)	310 #2	300 #2	290 #2	280 #1	270 #1	260 #1	250 #1	240 #1
3000-3700 (10,000-12,000)	290 #2	280 #2	270 #1	250 #1	240 #1	230 #1	220 #1	210 #1

When using non oxygenated fuel with a RON greater than 93, decrease the main jet number in the above chart by 10 and raise the E-clip one position. If the chart recommends clip #1, install washer on top when using RON 93.

#### Clutch Settings

ALTITUDE meters (feet)	DRIVE CLUTCH		DRIVEN CLUTCH		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-62	BLK / GRN (120 / 340) (7042083)	RED/BLK (140 / 240) (7043058)	64/42-36 LW ER	23:39-76
600-1200 (2000-4000)	10-60			56/42-36 LW ER	22:39-76
1200-1800 (4000-6000)	10-58				
1800-2400 (6000-8000)	10-56			20:41-76	
2400-3000 (8000-10,000)	10-54				20:41-76
3000-3600 (10,000-12,000)	10-AL				

Drive Clutch Bolt Torque: 50 lb.ft. (68Nm)  
Re-torque after running engine.