

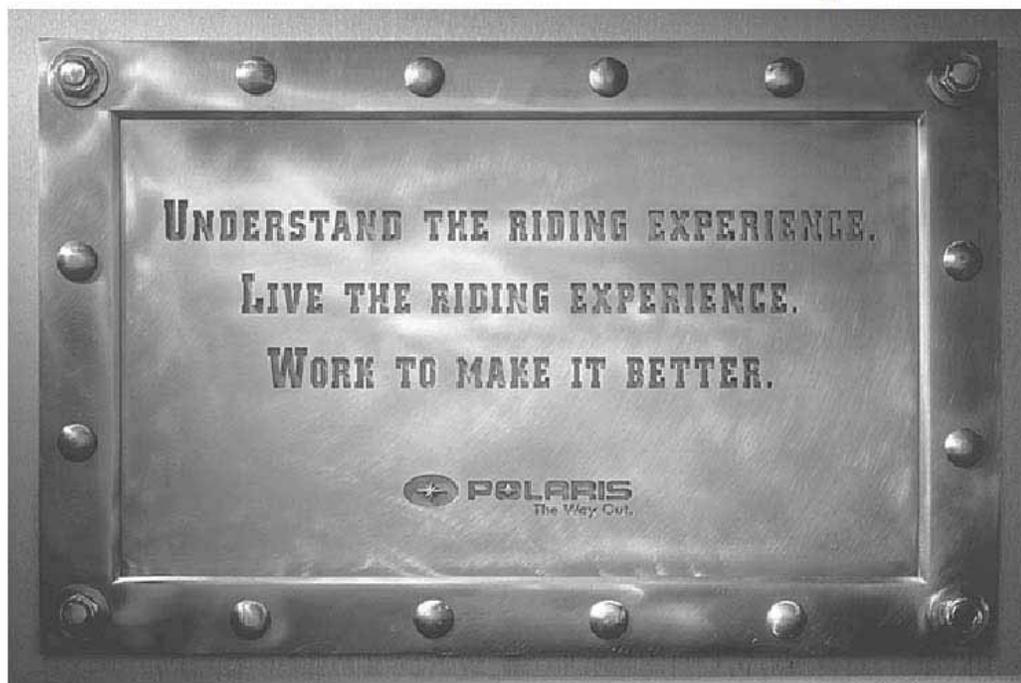
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**POLARIS**  
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## **2007 TWO STROKE SNOWMOBILE SERVICE MANUAL**

### **FOREWORD**

This service manual is designed primarily for use by certified Polaris Master Service Dealer technicians in a properly equipped shop and should be kept available for reference. All references to left and right side of the vehicle are from the operator's perspective when seated in a normal riding position.

Some procedures outlined in this manual require a sound knowledge of mechanical theory, tool use, and shop procedures in order to perform the work safely and correctly. Technicians should read the text and be familiar with service procedures before starting the work. Certain procedures require the use of special tools. Use only the proper tools as specified.

Comments or suggestions about this manual may be mailed to: Service Publications Dept. @ Polaris Sales Inc. 2100 Hwy 55 Medina Minnesota 55340.

You may also fill out a Comments and suggestion electronic form that can be located at [www.polarisdealers.com](http://www.polarisdealers.com) in the **News, Forms & Links** area click on **Service & Warranty** link and the feedback link is at the bottom of the page named **Polaris Manual Correction Feedback** link.

### **2007 Two Stroke Snowmobile Service Manual PN 9920463**

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# UNDERSTANDING MANUAL SAFETY LABELS AND DIRECTIONS

Throughout this manual, motorcycle service repair workshop manual, information by the following symbols:



**SAFETY ALERT WARNING** indicates a potential hazard that may result in severe injury or death to the operator, bystander or person(s) inspecting or servicing the vehicle.



**SAFETY ALERT CAUTION** indicates a potential hazard that may result in minor personal injury or damage to the vehicle.



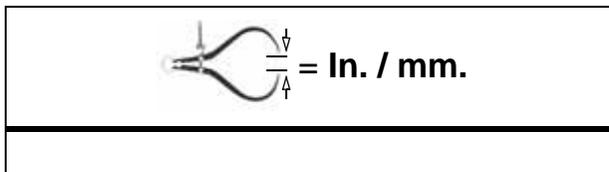
**CAUTION** indicates special precautions that must be taken to avoid vehicle damage or property damage.

### **NOTE:**

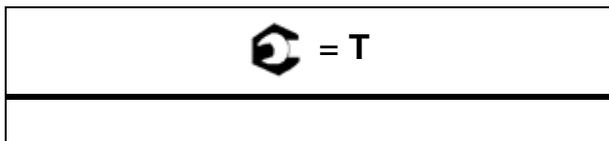
**NOTE** provides key information by clarifying instructions.

### **IMPORTANT:**

**IMPORTANT** provides key reminders during disassembly, assembly and inspection of components.



**MEASUREMENT** provides a key for a determined measurement specification.



**TORQUE** provides a key for a required torque value.

## **TRADEMARKS**

POLARIS ACKNOWLEDGES THE FOLLOWING PRODUCTS MENTIONED IN THIS MANUAL:

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# MODEL SPECIFICATIONS

## 340 LX

### MODEL S07ND3AS

#### Body

Body Style	EDGE
------------	------

#### Engine

Engine type	Fuji
Engine displacement	339cc
Bore (in/mm)	2.45/62.3
Stroke (in/mm)	2.19/55.6
Piston to cylinder clearance (in/mm)	.003-.005/.080-.130
Piston ring end gap (in/mm)	.008-.014/.20-.41
Operating RPM±200	7000
Idle RPM±200	1600
Clutch engagement RPM ±200	4100

#### Fuel Delivery

Type	VM30SS
Main Jet	170
Pilot Jet	35
Jet Needle/Clip position	5DP13/3
Needle Jet	O-6 (169)
Throttle gap under cutaway (in/mm)	.240/6.1
Throttle slide cutaway	2.5AL
Valve seat	1.5Viton
Starter jet	1.5
Pilot air jet	2.5
Fuel screw setting	N/A
Air screw setting	1.5
Recommended fuel octane (R+M/2)	87 NonOxy Minimum

## 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)	185 #4	180 #3	170 #3	170 #3	165 #3	160 #3	155 #3	150 #3
600-1200 (2000-4000)	175 #3	170 #3	160 #3	160 #3	155 #3	150 #3	140 #2	140 #2
1200-1800 (4000-6000)	165 #3	160 #3	155 #3	150 #3	145#3	140 #2	130 #2	130 #2
1800-2400 (6000-8000)	155 #3	150 #3	140 #3	135 #3	135 #2	130 #2	120 #1	120 #1
2400-3000 (8000-10000)	145 #3	140 #3	130 #2	130 #2	125 #2	120 #1	110 #1	110 #1
3000-3700 (10000-12000)	135 #3	130 #2	120 #2	115 #2	115 #1	110 #1	100 #1	100 #1

## Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-900 (0-3000)	10	110/290 (Black-2287)	Red/Black	S36 LW ER	16:41-72
900-1800 (3000-6000)	10-M Blue	110/290 (Black-2287)	Red/Black	S36 LW ER	16:41-72
1800-2700 (6000-9000)	10MW	110/290 (Black-2287)	Red/Black	S36 LW ER	16:41-72
2700-3700 (9000-12000)	10MR	110/290 (Black-2287)	Red/Black	S36 LW ER	16:41-72

Drive clutch bolt torque 50 ft-lbs (69 N-m)

## Belt

Belt part number	3211078
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

## Chaincase

Center distance (in/cm)	7.92/20.1
Reverse type	PERC

## Fluids and Capacities

Fuel (gal/l)	11.8/44.7
Oil (qts/l)	3.25/3.1
Coolant (qts/l)	N/A
Chaincase (oz/ml)	9/266.2
Brake fluid type	DOT4

## Track

Width (in/cm)	15/38
Length (in/cm)	121/307
Lug height (in/cm)	.66/1.7
Manufacture	Camoplast
Track tension sag (in/cm) with 10 lbs/4.54kg placed 16 in/40.6cm ahead of rear idler shaft	.375-.5/1-1.3

## Front Suspension

Suspension type	Edge LX
IFS shocks	Arvin/7041932
IFS Spring PN	7041551
IFS Spring Pre-Load (in/mm)	.625/15.9
IFS spring rate (lb/in - kg/mm)	100/1.79
IFS Spring free length (in/cm)	10.75/27.3
Front vertical travel (in/cm)	10/25.4
Ski center distance (in/cm)	42.5/108
Camber (in/mm)	.59±.31/15.0±7.9
Toe (in/mm)	.12-.25/3.0-6.35

## Rear Suspension

Suspension type	Edge 121
Front track shock (FTS)	Arvin/7041939
FTS Spring PN	7041253
FTS Spring Free Length (in/cm)	7.5/19
FTS Spring Rate (lb/in - kg/mm)	200-240/3.6-4.3
FTS pre-load	Fixed
Rear track shock	Arvin MPV/7043239
Rear travel (in/cm)	13.9/35.3

## Torsion Spring

Torsion spring PNs (LH/RH)	7041629/7041630
Torsion spring diameter (in/mm)	.359/9.12
Torsion spring tail angle	77°

## Dimensions

Width (in/cm)	48/122
Length (in/cm)	113/287
Height (in/cm)	46/117
Est dry weight (lb/kg)	457/207.7

## Electrical

Ignition timing	26.5°@3000RPM
Spark plug gap (in/mm)	.0275/.70
Spark plug	NGK BR8ES
Voltage regulator/output	240watt
CDI marking	CU7245
Flywheel Markings	FP9313

## Features

Electric Fuel Gauge	Accessory
Electric Start	Standard
Low Oil Light	Standard
Parking Brake	Standard
Speedometer	Standard 5 inch
Tachometer	Accessory

# MODEL SPECIFICATIONS

## 340 TOURING

### MODEL S07NT3A(E,S)

#### Body

Body Style	EDGE
------------	------

#### Engine

Engine type	Fuji
Engine displacement	339cc
Bore (in/mm)	2.45/62.3
Stroke (in/mm)	2.19/55.6
Piston to cylinder clearance (in/mm)	.003-.005/.080-.130
Piston ring end gap (in/mm)	.008-.014/.20-.41
Operating RPM±200	7000
Idle RPM±200	1600
Clutch engagement RPM ±200	3700

#### Fuel Delivery

Type	VM30SS
Main Jet	170
Pilot Jet	35
Jet Needle/Clip position	5DP13/3
Needle Jet	O-6(169)
Throttle gap under cutaway (in/mm)	.240/6.1
Throttle slide cutaway	2.5AL
Valve seat	1.5 Viton
Starter jet	1.5
Pilot air jet	2.5
Fuel screw setting	N/A
Air screw setting	1.5
Recommended fuel octane (R+M/2)	87 non Oxy/Minimum

## 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)	185 #4	180 #3	170 #3	170 #3	165 #3	160 #3	155 #3	150 #3
600-1200 (2000-4000)	175 #3	170 #3	160 #3	160 #3	155 #3	150 #3	140 #2	140 #2
1200-1800 (4000-6000)	165 #3	160 #3	155 #3	150 #3	145 #3	140 #2	130 #2	130 #2
1800-2400 (6000-8000)	155 #3	150 #3	140 #3	135 #3	135 #2	130 #2	120 #1	120 #1
2400-3000 (8000-10000)	145 #3	140 #3	130 #2	130 #2	125 #2	120 #1	110 #1	110 #1
3000-3700 (10000-12000)	135 #3	130 #2	120 #2	115 #2	115 #1	110 #1	100 #1	100 #1

## Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-900 (0-3000)	10	(110/290) Black-2287	Blue/Black	54/38-25 LW ER	17:41-72
900-1800 (3000-6000)	10-M Blue	(110-290) Black-2287	Blue/Black	54/38-25 LW ER	17:41-72
1800-2700 (6000-9000)	10 MW	(110-290) Black-2287	Blue/Black	54/38-25 LW ER	17:41-72
2700-3700 (9000-12000)	10 MR	(110-290) Black-2287	Blue/Black	54/38-25 LW ER	17:41-72

Drive clutch bolt torque 50 ft-lbs(69 N-m)

## Belt

Belt part number	3211078
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

## Chaincase

Center distance (in/cm)	7.92/20.1
Reverse type	PERC

## Fluids and Capacities

Fuel (gal/l)	12.25/46.4
Oil (qts/l)	3.25/3.1
Coolant (qts/l)	N/A
Chaincase (oz/ml)	9/266.2
Brake fluid type	DOT 4

## Track

Width (in/cm)	15/38
Length (in/cm)	136/345
Lug height (in/cm)	1/2.5
Manufacture	Soucy
Track tension sag (in/cm) with 10 lbs/4.54kg placed 16 in/40.6cm ahead of rear idler shaft	1.125 - 1.375 / 2.9 - 3.5

## Front Suspension

Suspension type	Edge LX
IFS shocks	Arvin/7041932
IFS Spring PN	7041551
IFS Spring Pre-Load (in/mm)	.625/15.9
IFS spring rate (lb/in - kg/mm)	100/1.79
IFS Spring free length (in/cm)	10.75/27.3
Front vertical travel (in/cm)	10/25.4
Ski center distance (in/cm)	42.5/108
Camber (in/mm)	.59±.31/15.0±7.9
Toe (in/mm)	.12-.25/3.0-6.35

## Rear Suspension

Suspension type	Edge 136
Front track shock (FTS)	Arvin/7041939
FTS spring rate (lb/in - kg/mm)	200-240/3.6-4.3
FTS spring installed length (in/cm)	Fixed
Rear track shock	Arvin/7042138
Rear travel (in/cm)	13.9/35.3

## Torsion Spring

Torsion spring PNs (LH/RH)	7041940/7041941
Torsion spring diameter (in/mm)	.405/10.3
Torsion spring tail angle	77°

## Dimensions

Width (in/cm)	47.25/120
Length (in/cm)	128/325.1
Height (in/cm)	49.5/125.7
Est dry weight lb/kg	517/234.7

## Electrical

Ignition timing	26.5°@3000RPM
Spark plug gap (in/mm)	.028/.70
Spark plug	NGK BR8ES
Voltage regulator/output	240watt
CDI marking	CU7245
Flywheel Marking	FP9319

## Features

Electric Fuel Gauge	Accessory
Electric Start	Standard
Low Oil Light	Standard
Parking Brake	Standard
Speedometer	Standard 5 inch
Tachometer	Accessory

# MODEL SPECIFICATIONS

## WIDETRAK LX

### MODEL S07SU4BS

#### Body

Body Style	GENII
------------	-------

#### Engine

Engine type	Fuji
Engine displacement	488cc
Engine model number	EC50PL237
Bore (in/mm)	2.83/72
Stroke (in/mm)	2.36/60
Piston to cylinder clearance (in/mm)	.0035-.0049/.090-.125
Piston ring end gap (in/mm)	.0070-.016/.20-.47
Operating RPM±200	7000
Idle RPM±200	1600
Clutch engagement RPM ±200	3800

#### Fuel Delivery

Type	VM34SS
Main Jet	195
Pilot Jet	35
Jet Needle/Clip position	6EJ26/2
Needle Jet	P-6 (166)
Throttle gap under cutaway (in/mm)	.240/6.1
Throttle slide cutaway	3
Valve seat	1.5 Viton
Starter jet	1.5
Pilot air jet	N/A
Fuel screw setting	N/A
Air screw setting	.5
Recommended fuel octane (R+M/2)	87 NonOxy/Minimum

#### 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)	210 #2	200 #2	195 #2	190 #2	185 #2	175 #2	170 #2	170 #1
600-1200 (2000-4000)	195 #2	185 #2	180 #2	175 #2	170 #2	165 #2	155 #1	155 #1
1200-1800 (4000-6000)	185 #2	175 #2	170 #2	165 #2	160 #1	155 #1	145 #1	145 #1
1800-2400 (6000-8000)	170 #2	165 #2	155 #2	155 #1	150 #1	140 #1	135 #1	135 #1
2400-3000 (8000-10000)	160 #2	155 #2	145 #1	145 #1	140 #1	130 #1	120 #1	120 #1
3000-3700 (10000-12000)	150 #2	140 #1	135 #1	130 #1	125 #1	120 #1	110 #1	110 #1

When using non oxygenated fuel with an octane number greater than 93, decrease the main jet number in the above chart by 5

#### Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (P-85)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-900 (0-3000)	10	Brown	Silver	36D #2	19:41-66
900-1800 (3000-6000)	10	Red/White	Silver	36D #2	19:41-66
1800-2700 (6000-9000)	10-M Blue	Red/White	Silver	36D #2	19:41-66
2700-3700 (9000-12000)	10 MW	Red/White	Silver	36D #2	19:41-66

Drive clutch bolt torque 50 ft-lbs (69 N-m)

#### Belt

Belt part number	3211070
Belt width (in/cm)	1.375/3.49
Belt side angle	28°
Outside diameter (in/cm)	47.25/120
Clutch center distance (in/cm)	12/30.5

#### Chaincase

Center distance (in/cm)	N/A
Reverse type	Hi/Low/Reverse

## Fluids and Capacities

Fuel (gal/l)	11/41.6
Oil (qts/l)	2/1.9
Coolant (qts/l)	3.4/3.2
Gearcase (oz/ml)	20/591.5
Brake fluid type	DOT4

## Track

Width (in/cm)	20/51
Length (in/cm)	156/396
Lug height (in/cm)	1/2.5
Manufacture	Camoplast
Track tension sag (in/cm) with 10 lbs/ 4.54kg placed 16 in/40.6cm ahead of rear idler shaft	.75-1.0/1.9-2.5

## Front Suspension

Suspension type	WideTrak GenII
IFS shocks	Arvin/7041535
IFS spring rate (lb/in - kg/mm)	105/1.9
Spring installed length (in/cm)	Fixed
Front vertical travel (in/cm)	7.25/18.4
Ski center distance (in/cm)	38/96.5
Camber (in/mm)	.82±.72/20.8±18.3
Toe (in/mm)	0-.12/0-3

## Rear Suspension

Suspension type	WideTrak
Front track shock (FTS)	Arvin 7041742
FTS spring rate lbs-in/kg-mm	181/3.2
FTS spring installed length (in/cm)	Fixed
Rear track shock	Arvin/7042309
Rear travel (in/cm)	9/22.9

## Torsion Spring

Torsion spring PNs (LH/RH)	7041239/7041240
Torsion spring diameter (in/mm)	.468/11.9
Torsion spring tail angle	74°

## Dimensions

Width (in/cm)	43.5/110
Length (in/cm)	128/325
Height (in/cm)	51/130
Est dry weight lb/kg	643/291.9

## Electrical

Ignition timing	28°@3000
Spark plug gap (in/mm)	.028/.71
Spark plug	Champion RN3C
Voltage regulator/output	200watt
CDI marking	IU2212
Flywheel Marking	FP5536

## Features

Electric Fuel Gauge	N/A
Electric Start	Standard
Low Oil Light	Standard
Parking Brake	N/A
Speedometer	Standard 5 inch
Tachometer	Accessory

# MODEL SPECIFICATIONS

## 500 XC SP

### MODEL S07NP5CS(E)

#### Body

Body Style	EDGE
------------	------

#### Engine

Engine type	Liberty
Engine displacement	500
Engine model number	S3033-5044-PF5F
Bore (in/mm)	2.78/70.5
Stroke (in/mm)	2.52/64
Piston to cylinder clearance (in/mm)	.0045-.0059/.11-.15
Piston ring end gap (in/mm)	.014-.020/.40-.61
Operating RPM±200	8500
Idle RPM	1500
Clutch engagement RPM +/- 200	4200
Exhaust valve spring	Pink/Yellow

#### Fuel Delivery

Type	TM38
Main Jet	410
Pilot Jet	45
Jet Needle/Clip position	6BGY41/4
Needle Jet	P-8
Throttle gap under cutaway (in/mm)	.079/2
Throttle slide cutaway	2
Valve seat	1.5
Starter jet	145
Pilot air jet	N/A
Fuel screw setting	3
Air screw setting	1.25
Recommended fuel octane (R+M/2)	87 Min NonOxy

#### 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	410 #2	400 #2	390 #2	380 #2	360 #2	350 #1
600-1200 (2000-4000)	420 #3	400 #2	390 #2	370 #2	360 #2	250 #2	330 #1	320 #1
1200-1800 (4000-6000)	390 #2	380 #2	360 #2	350 #2	340 #2	330 #1	310 #1	300 #1
1800-2400 (6000-8000)	370 #2	350 #2	340 #2	320 #2	310 #1	300 #1	290 #1	270 #1
2400-3000 (8000-10000)	340 #2	330 #2	310 #1	300 #1	290 #1	280 #1	260 #1	250 #1
3000-3700 (10000-12000)	320 #1	300 #1	290 #1	270 #1	260 #1	250 #1	240 #1	230 #1

When using non oxygenated fuel with an octane number greater than 93, decrease the main jet number in the above chart by 20.

#### Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-900 (0-3000)	10-56	Black/ Green	Red/ Black	56/42-36 LW ER	22:40-74
900-1800 (3000-6000)	10-54	Black/ Green	Red/ Black	56/42-36 LW ER	22:40-74
1800-2700 (6000-9000)	10	Black/ Green	Red/ Black	56/42-36 LW ER	21:40-74
2700-3700 (9000-12000)	10M Blue	Black/ Green	Red/ Black	56/42-36 LW ER	21:40-74

Drive clutch bolt torque 50 ft-lbs (69 N-m)

#### Belt

Belt part number	3211080
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

#### Chaincase

Center distance (in/cm)	7.92/20.1
Reverse type	PERC

## Fluids and Capacities

Fuel (gal/l)	11.8/44.7
Oil (qts/l)	3.25/3.1
Coolant (qts/l)	5.6/5.3
Chaincase (oz/ml)	9/266.2
Brake fluid type	DOT4

## Track

Width (in/cm)	15/38
Length (in/cm)	121/307
Lug height (in/cm) [Euro]	.91/2.3 [1.25/31.75]
Manufacture	Camoplast
Track tension sag (in/cm) with 10 lbs/ 4.54kg placed 16 in/40.6cm ahead of rear idler shaft	.375-.5/1-1.3

## Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7043082
IFS spring rate (lb/in - kg/mm)	68-160/1.22-2.9
IFS Spring installed length (in/cm)	10.5/26.7
Front vertical travel (in/cm)	10.3/26.2
Ski center distance (in/cm)	42.5/108
Camber (in/mm)	.59±.31/15.0±7.9
Toe (in/mm)	.12-.25/3.0-6.35

## Rear Suspension

Suspension type	Edge 121
Front track shock	Arvin/7041975
FTS Spring rate (lb/in - kg/mm)	160 Var/2.86 Var
FTS Spring installed length	7.46/18.9
Rear track shock	Arvin MPV/7043239
Rear travel (in/cm)	13.9/35.3

## Torsion Spring

Torsion spring PNs (LH/RH)	7041942/7041943
Torsion spring diameter (in/mm)	.375/9.5
Torsion spring tail angle	77°

## Dimensions

Width (in/cm)	48/122
Length (in/cm)	113/287
Height (in/cm)	46/117
Est dry weight lb/kg	481/218.4

## Electrical

Ignition timing	25°@2500RPM
Spark plug gap (in/mm)	.027/.70
Spark plug	Champion RN57YCC
Voltage regulator/output	280watt
CDI marking	4010829
Flywheel Marking	4010677

## Features

Electric Fuel Gauge	Accessory
Electric Start	Accessory
Low Oil Light	Standard
Parking Brake	Standard
Speedometer	Standard 5 inch
Tachometer	Standard 5 inch

# MODEL SPECIFICATIONS

## SUPER SPORT

### MODEL S07NP5B(E,S)

#### Body

Body Style	EDGE
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#### Engine

Engine type	Fuji
Engine Model	EC550PM100
Engine Displacement	544cc
Bore (in/mm)	2.87/73
Stroke (in/mm)	2.56/65
Piston to cylinder clearance (in/mm)	.0039-.0053/.10-.135
Piston ring end gap (in/mm)	.016-.022/.40-.55
Operating RPM±200	7000
Idle RPM±200	1600
Clutch engagement RPM ±200	3800
Exhaust valve spring	N/A

#### Fuel Delivery

Type	VM34
Main Jet	250
Pilot Jet	35
Jet Needle/Clip position	6DEH11/3
Needle Jet	Q-0 (480)
Throttle gap under cutaway (in/mm)	.256/6.5
Throttle slide cutaway	3
Valve seat	1.5 Viton
Starter jet	1.5
Pilot air jet	2.5
Fuel screw setting	N/A
Air screw setting	1.0
Recommended fuel octane (R+M/2)	87 NonOxy/Min.

#### 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)	270 #4	260 #4	250 #4	240 #3	230 #3	220 #3	210 #2	200 #1
600-1200 (2000-4000)	260 #4	250 #4	240 #3	230 #3	220 #3	220 #2	210 #2	200 #1
1200-1800 (4000-6000)	250 #4	240 #3	230 #3	220 #3	210 #2	210 #2	200 #1	190 #1
1800-2400 (6000-8000)	230 #3	220 #3	220 #3	210 #2	210 #2	200 #1	190 #1	180 #1
2400-3000 (8000-10000)	220 #3	210 #3	210 #2	200 #2	190 #1	190 #1	180 #1	170 #1
3000-3700 (10000-12000)	210 #3	200 #2	190 #2	190 #1	180 #1	180 #1	170 #1	160 #1

#### Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-62	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:39- 72
600-1200 (2000-4000)	10-60	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:39- 72
1200-1800 (4000-6000)	10-60	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:39- 72
1800-2400 (6000-8000)	10-58	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	18:39- 72
2400-3000 (8000-10000)	10-56	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	18:39- 72
3000-3600 (10000-12000)	10-56	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	18:39- 72

Drive clutch bolt torque 50 ft-lbs (69 N-m)

#### Belt

Belt part number	3211078
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

#### Chaincase

Center distance (in/cm)	7.92/18.52
Reverse type	PERC

## Fluids and Capacities

Fuel (gal/l)	11.8/44.7
Oil (qts/l)	3.25/3.1
Coolant (qts/l)	N/A
Chaincase (oz/ml)	9/266.2
Brake fluid type	DOT4

## Track

Width (in/cm)	15/38
Length (in/cm)	121/307
Lug height (in/cm)	.82/2.1
Manufacturer	Camoplast
Track tension sag (in/cm) with 10 lbs/ 4.54kg placed 16 in/40.6cm ahead of rear idler shaft	.375-.5/1-1.3

## Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7041932
IFS spring rate (lb/in - kg/mm)	100/1.79
Spring preload (in/cm)	.625/15.875
Front vertical travel (in/cm)	10/25.4
Ski center distance (in/cm)	42.5/108
Camber (in/mm)	.59±.31/15.0±7.9
Toe (in/mm)	.12-.25/3.0-6.35

## Rear Suspension

Suspension type	Edge 121
Front track shock (FTS)	Arvin/7041939*
FTS spring rate (lb/in - kg/mm)	200-240 / 3.6 - 4.4Var
FTS spring installed length (in/cm)	Fixed
Rear track shock	Arvin MPV/7043239
Rear travel (in/cm)	13.9/35.3
* notes that shock is serviceable	

## Torsion Spring

Torsion spring PNs (LH/RH)	7041942/7041943
Torsion spring diameter (in/mm)	.375/9.5
Torsion spring tail angle	77°

## Dimensions

Width (in/cm)	48/122
Length (in/cm)	113/287
Height (in/cm)	45/114

## Dimensions

Est dry weight lb/kg	460/208.7
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## Electrical

Ignition timing	27°@3000
Spark plug gap (in/mm)	.028/.70
Spark plug	NGK BR9ES
Voltage regulator/output	280watt
CDI marking	EC55PM 100/110
Flywheel Marking	FP6318

## Features

Electric Fuel Gauge	Accessory
Electric Start	Accessory
Low Oil Light	Standard
Parking Brake	Standard
Speedometer	Standard 5 inch
Tachometer	Accessory

# MODEL SPECIFICATIONS

## 550 LX

### MODEL S07ND5BS

#### Body

Body Style	EDGE
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#### Engine

Engine type	Fuji
Engine Model	EC550PM110
Engine Displacement	544cc
Bore (in/mm)	2.87/73
Stroke (in/mm)	2.56/65
Piston to cylinder clearance (in/mm)	.0039-.0053/.10-.135
Piston ring end gap (in/mm)	.016-.022/.40-.61
Operating RPM±200	7000
Idle RPM±200	1600
Clutch engagement RPM ±200	3800
Exhaust valve spring	N/A

#### Fuel Delivery

Type	VM34
Main Jet	250
Pilot Jet	35
Jet Needle/Clip position	6BGY41/4
Needle Jet	Q-0 (480)
Throttle gap under cutaway (in/mm)	.256/6.5
Throttle slide cutaway	3
Valve seat	1.5 Viton
Starter jet	1.5
Pilot air jet	2.5
Fuel screw setting	N/A
Air screw setting	1.0
Recommended fuel octane (R+M/2)	87 NonOxy/Min.

## 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)	270 #4	260 #4	250 #4	240 #3	230 #3	220 #3	210 #2	200 #1
600-1200 (2000-4000)	260 #4	250 #4	240 #3	230 #3	220 #3	220 #2	210 #2	200 #1
1200-1800 (4000-6000)	250 #4	240 #3	230 #3	220 #3	210 #2	210 #2	200 #1	190 #1
1800-2400 (6000-8000)	230 #3	220 #3	220 #3	210 #2	210 #2	200 #1	190 #1	180 #1
2400-3000 (8000-10000)	220 #3	210 #3	210 #2	200 #2	190 #1	190 #1	180 #1	170 #1
3000-3700 (10000-12000)	210 #3	200 #2	190 #2	190 #1	180 #1	180 #1	170 #1	160 #1

## Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-62	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:39- 72
600-1200 (2000-4000)	10-60	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:39- 72
1200-1800 (4000-6000)	10-60	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:39- 72
1800-2400 (6000-8000)	10-58	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	18:39- 72
2400-3000 (8000-10000)	10-56	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	18:39- 72
3000-3600 (10000-12000)	10-56	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	18:39- 72

Drive clutch bolt torque 50 ft-lbs (69 N-m)

## Belt

Belt part number	3211078
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

## Chaincase

Center distance (in/cm)	7.92/18.52
Reverse type	PERC

## Fluids and Capacities

Fuel (gal/l)	11.8/44.7
Oil (qts/l)	3.25/3.1
Coolant (qts/l)	N/A
Chaincase (oz/ml)	9/266.2
Brake fluid type	DOT4

## Track

Width (in/cm)	15/38
Length (in/cm)	121/307
Lug height (in/cm)	.82/2.1
Manufacturer	Camoplast
Track tension sag (in/cm) with 10 lbs/ 4.54kg placed 16 in/40.6cm ahead of rear idler shaft	.375-.5/1-1.3

## Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7041932
IFS spring rate (lb/in - kg/mm)	100/1.79
Spring preload (in/cm)	.625/15.875
Front vertical travel (in/cm)	10/25.4
Ski center distance (in/cm)	42.5/108
Camber (in/mm)	.59±.31/15.0±7.9
Toe (in/mm)	.12-.25/3.0-6.35

## Rear Suspension

Suspension type	Edge 121
Front track shock (FTS)	Arvin/7041939*
FTS spring rate (lb/in - kg/mm)	200-240 / 3.6 - 4.4Var
FTS spring installed length (in/cm)	Fixed
Rear track shock	Arvin MPV/7043239
Rear travel (in/cm)	13.9/35.3
* notes that shock is serviceable	

## Torsion Spring

Torsion spring PNs (LH/RH)	7041629/7041630
Torsion spring diameter (in/mm)	.375/9.5
Torsion spring tail angle	77°

## Dimensions

Width (in/cm)	48/122
Length (in/cm)	113/287
Height (in/cm)	45/114

## Dimensions

Est dry weight lb/kg	460/208.7
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## Electrical

Ignition timing	27°@3000
Spark plug gap (in/mm)	.028/.70
Spark plug	NGK BR9ES
Voltage regulator/output	280watt
CDI marking	EC55PM 100/110
Flywheel Marking	FP6318

## Features

Electric Fuel Gauge	Accessory
Electric Start	Standard
Low Oil Light	Standard
Parking Brake	Standard
Speedometer	Standard 5 inch
Tachometer	Accessory

# MODEL SPECIFICATIONS

## TRAIL RMK

### MODEL S07NJ5B(E,S)

#### Body

Body Style	EDGE
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#### Engine

Engine type	Fuji
Engine Model	EC550PM110
Engine displacement	544cc
Bore (in/mm)	2.87/73
Stroke (in/mm)	2.56/65
Piston to cylinder clearance (in/mm)	.0039-.005/.10-.135
Piston ring end gap (in/mm)	.016-.022/.4-.61
Operating RPM±200	7000
Idle RPM	1600
Clutch engagement RPM ±200	3800

#### Fuel Delivery

Type	VM34
Main Jet	210
Pilot Jet	35
Jet Needle/Clip position	6BGY41/4
Needle Jet	Q-0 (480)
Throttle gap under cutaway (in/mm)	.264/6.71
Throttle slide cutaway	3
Valve seat	1.5 Viton
Starter jet	1.5
Pilot air jet	2.5
Fuel screw setting	N/A
Air screw setting	.75
Recommended fuel octane (R+M/2)	87 NonOxy/Min.

## 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)	270 #4	260 #4	250 #4	240 #3	230 #3	220 #3	210 #2	200 #1
600-1200 (2000-4000)	260 #4	250 #4	240 #3	230 #3	220 #3	220 #3	210 #2	200 #1
1200-1800 (4000-6000)	250 #4	240 #3	230 #3	220 #3	210 #2	210 #2	200 #1	190 #1
1800-2400 (6000-8000)	230 #3	220 #3	220 #3	210 #2	210 #2	200 #1	190 #1	180 #1
2400-3000 (8000-10000)	220 #3	210 #3	210 #2	200 #2	190 #1	190 #1	180 #1	170 #1
3000-3700 (10000-12000)	210 #3	200 #2	190 #2	190 #1	180 #1	180 #1	170 #1	160 #1

## Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-64	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:43- 74
600-1200 (2000-4000)	10-62	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:43- 74
1200-1800 (4000-6000)	10-60	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:43- 74
1800-2400 (6000-8000)	10-60	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:43- 74
2400-3000 (8000-10000)	10-58	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:43- 74
3000-3600 (10000-12000)	10-56	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	19:43- 74

Drive clutch bolt torque 50 ft-lbs (69 N-m)

## Belt

Belt part number	3211078
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

## Chaincase

Center distance (in/cm)	7.92/20.1
Reverse type	PERC

## Fluids and Capacities

Fuel (gal/l)	11.8/44.7
Oil (qts/l)	3.25/3.1
Coolant (qts/l)	Air
Chaincase (oz/ml)	9/266.2
Brake fluid type	DOT 4

## Track

Width (in/cm)	15/38
Length (in/cm)	136/345
Lug height (in/cm)	1.25/3.2
Manufacturer	Camoplast
Track tension sag (in/cm) with 10 lbs/ 4.54kg placed 16 in/40.6cm ahead of rear idler shaft	.375-.50/1-1.3

## Front Suspension

Suspension type	Edge RMK
IFS shocks	Arvin/7042107
IFS spring rate (lb/in - kg/mm)	80/1.4
Spring installed length (in/cm)	9.75/24.8
Front vertical travel (in/cm)	7.6/19.3
Ski center distance (in/cm)	41/104
Camber (in/mm)	.735±.31/18.7±7.9
Toe (in/mm)	0-.12

## Rear Suspension

Suspension type	Edge RMK 136
Front track shock	Arvin/7042085
FTS spring rate (lb/in - kg/mm)	170/3.0
FTS spring installed length (in/cm)	Fixed
Rear track shock	7042058
Rear travel (in/cm)	13.8/35.1

## Torsion Spring

Torsion spring PNs (LH/RH)	7041627/7041628
Torsion spring diameter (in/mm)	.347/8.8
Torsion spring tail angle	77°

## Dimensions

Width (in/cm)	45.5/115.6
Length (in/cm)	124/315
Height (in/cm)	48/123
Est dry weight lb/kg	475/215.7

## Electrical

Ignition timing	27°@3000 RPM 14°@6500RPM
Spark plug gap (in/mm)	.028/.70
Spark plug	NGK BR9ES
Voltage regulator/output	280 watts
CDI marking	EC55PM100/110
Flywheel marking	FP6318

## Features

Electric Fuel Gauge	Accessory
Electric Start	Standard
Low Oil Light	Standard
Parking Brake	Standard
Speedometer	Standard 5 inch
Tachometer	Accessory

# MODEL SPECIFICATIONS

## TRAIL TOURING DELUXE

### MODEL S07NT5B(E,S)(A)

#### Body

Body Style	EDGE
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#### Engine

Engine type	Fuji
Engine Model	EC550PM100
Engine displacement	544cc
Bore (in/mm)	2.87/73
Stroke (in/mm)	2.56/65
Piston to cylinder clearance (in/mm)	.0039-.005/.10-.135
Piston ring end gap (in/mm)	.016-.022/.4-.61
Operating RPM±200	7000
Idle RPM	1600
Clutch engagement RPM ±200	3800

#### Fuel Delivery

Type	VM34
Main Jet	250
Pilot Jet	35
Jet Needle/Clip position	6BGY41/4
Needle Jet	Q-0 (480)
Throttle gap under cutaway (in/mm)	.256/6.5
Throttle slide cutaway	3
Valve seat	1.5 Viton
Starter jet	1.5
Pilot air jet	2.5
Fuel screw setting	N/A
Air screw setting	1.0
Recommended fuel octane (R+M/2)	87 NonOxy/Min.

#### 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)	270 #4	260 #4	250 #4	240 #3	230 #3	220 #3	210 #2	200 #1
600-1200 (2000-4000)	260 #4	250 #4	240 #3	230 #3	220 #3	220 #3	210 #2	200 #1
1200-1800 (4000-6000)	250 #4	240 #3	230 #3	220 #3	210 #2	210 #2	200 #1	190 #1
1800-2400 (6000-8000)	230 #3	220 #3	220 #3	210 #2	210 #2	200 #1	190 #1	180 #1
2400-3000 (8000-10000)	220 #3	210 #3	210 #2	200 #2	190 #1	190 #1	180 #1	170 #1
3000-3700 (10000-12000)	210 #3	200 #2	190 #2	190 #1	180 #1	180 #1	170 #1	160 #1

#### Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-62	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	21:41-74
600-1200 (2000-4000)	10-60	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	21:41-74
1200-1800 (4000-6000)	10-60	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	21:41-74
1800-2400 (6000-8000)	10-58	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	20:41-74
2400-3000 (8000-10000)	10-56	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	20:41-74
3000-3600 (10000-12000)	10-56	Dark Blue/White	Red/Blue	(56/42-.36) LW ER	20:41-74

Drive clutch bolt torque 50 ft-lbs (69 N-m)

#### Belt

Belt part number	3211078
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

#### Chaincase

Center distance (in/cm)	7.92/20.1
Reverse type	PERC

## Fluids and Capacities

Fuel (gal/l)	12.25/46.4
Oil (qts/l)	3.25/3.1
Coolant (qts/l)	N/A
Chaincase (oz/ml)	9/266.2
Brake fluid type	DOT4

## Track

Width (in/cm)	15/38
Length (in/cm)	136/345
Lug height (in/cm)	1/2.5
Manufacturer	Soucy
Track tension sag (in/cm) with 10 lbs/4.54kg placed 16 in/40.6cm ahead of rear idler shaft	1.125 - 1.375 / 2.9 - 3.5

## Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7041918
IFS spring rate (lb/in - kg/mm)	90-180/1.6-3.2
IFS Spring Pre-Load (in/cm)	1/2.54
Front vertical travel (in/cm)	10/25.4
Ski center distance (in/cm)	42.5/108
Camber (in/mm)	.59±.31/15.0±7.9
Toe (in/mm)	.12-.25/3.0-6.35

## Rear Suspension

Suspension type	Edge 136
Front track shock (FTS)	Arvin/7041939
FTS spring rate	200-240 / 3.6 - 4.4Var
FTS spring installed length	Fixed
Rear track shock (RTS)	Arvin/7042138
Rear travel (in/cm)	13.9/33.5

## Torsion Spring

Torsion spring PNs (LH/RH)	7042240/7042241
Torsion spring diameter (in/mm)	.405/10.3
Torsion spring tail angle	77°

## Dimensions

Width (in/cm)	48/122
Length (in/cm)	128/325
Height (in/cm)	49.5/126
Est dry weight lb/kg	570/258.8

## Electrical

Ignition timing	27°@3000 14°@6500
Spark plug gap (in/mm)	.028/.70
Spark plug	NGK BR9ES
Voltage regulator/output	280watt
CDI marking	EC55PM 100/110
Flywheel Marking	FP6318

## Features

Electric Fuel Gauge	Accessory
Electric Start	Standard
Low Oil Light	Standard
Parking Brake	Standard
Speedometer	Standard 5 inch
Tachometer	Accessory

# MODEL SPECIFICATIONS

## 600 HO IQ

### MODEL S07PP6FS(A,B)

#### Body

Body Style	IQ
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#### Engine

Engine type	Liberty
Engine Model	S3273-6044-PF6F
Engine displacement	599
Bore (in/mm)	3.04/77.25
Stroke (in/mm)	2.52/64
Piston to cylinder clearance (in/mm)	.0045-.0059/.115-.149
Piston ring end gap (in/mm)	.014-.020/.0356-.508
Operating RPM±200	8100
Idle RPM	1500
Clutch engagement RPM ±200	3800
Exhaust valve spring	Pink

#### Fuel Delivery

Type	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
Throttle slide cutaway	1.5 Notch
Valve seat	1.5
Starter jet	145
Pilot air jet	.6
Fuel screw setting	1.25
Air screw setting	N/A
Recommended fuel octane (R+M/2)	91 Min. NonOxy

## 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 (8000-10000)	310 #2	300 #2	290 #2	280 #1	270 #1	260 #1	250 #1	240 #1
3000-3700 (10000-12000)	290 #2	280 #2	270 #1	250 #1	240 #1	230 #1	220 #1	210 #1

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

## Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-62	Black/Green	Red/Black	(64/42-.36) LW ER	23:39-76
600-1200 (2000-4000)	10-60	Black/Green	Red/Black	(56/42-.36) LW ER	22:39-76
1200-1800 (4000-6000)	10-58	Black/Green	Red/Black	(56/42-.36) LW ER	22:40-76
1800-2400 (6000-8000)	10-56	Black/Green	Red/Black	(56/42-.36) LW ER	22:40-76
2400-3000 (8000-10000)	10-54	Black/Green	Red/Black	(56/42-.36) LW ER	20:41-76
3000-3600 (10000-12000)	10 AL	Black/Green	Red/Black	(56/42-.36) LW ER	20:41-76

Drive clutch bolt torque 50 ft-lbs (69 N-m)

## Belt

Belt part number	3211080
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

## Chaincase

Center distance (in/cm)	8.373/21.3
Reverse type	PERC

## Fluids and Capacities

Fuel (gal/l)	10.8/40.9
Oil (qts/l)	3.4/3.2
Coolant (qts/l)	6.3/6.0
Chaincase (oz/ml)	11/325.3
Brake fluid type	DOT4

## Track

Width (in/cm)	15/38
Length (in/cm)	121/307
Lug height (in/cm)	1/2.5(std) 1.25/3.175(opt)
Manufacturer	Camoplast
Track tension sag (in/cm) with 10 lbs/ 4.54kg placed 16 in/40.6cm ahead of rear idler shaft	.875-1.125/2.2-2.9

## Front Suspension

Suspension type	IQ
IFS shocks	Arvin/7043245*(Std.) Fox/7043268* LH, 7043269 *RH (Opt)
IFS spring rate (lb/in - kg/mm)	100/1.79 (Std & Opt)
IFS Spring installed length (in/cm)	10.55/26.8 (Std & Opt)
Front vertical travel (in/cm)	10.25.4
Ski center distance (in/cm)	42.5/108
Camber (in/mm)	2.25±.31/5.7±.79
Toe (in/mm)	0-.12/0-3.0
* notes that shock is serviceable	

## Rear Suspension

Suspension type	IQ 121
Front track shock (FTS)	Arvin/7043244* (Std) Fox/7043267* (Opt)
FTS spring rate (lb/in - kg/mm)	130-270/2.3-4.8 (Std & Opt)
FTS installed length (in/mm)	7.97/20.2 (Std & Opt)
Rear track shock (RTS)	Fox/7043177*(Std) Fox/7043266*(Opt)
Rear Suspension Travel (in/cm)	13.9/35.3
* notes that shock is serviceable	

## Torsion Spring

Torsion spring PN (LH/RH)	7043070/7043071
Torsion spring diameter (in/mm)	.374/9.5
Torsion spring tail angle	80°

## Dimensions

Width (in/cm)	47.25/120
Length (in/cm)	115/292
Height (in/cm)	48/122
Est dry weight lb/kg	497/255.6

## Electrical

Ignition timing	26°@3500RPM (TPS Unplugged)
Spark plug gap (in/mm)	.027/.70
Spark plug	Champion RN57YCC
Voltage regulator/output	280watt
CDI marking	4011033
Flywheel marking	4010677

## Features

Electric Fuel Gauge	N/A
Electric Start	Optional
Low Oil Light	Standard
Parking Brake	Standard
Speedometer	Standard
Tachometer	Standard

# MODEL SPECIFICATIONS

## 600 HO IQ CLEANFIRE

### MODEL S07PP6HS(A,B)

#### Body

Body Style	IQ
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#### Engine

Engine type	Liberty
Engine Model	S3206-6044-PF6H
Engine displacement	599
Bore (in/mm)	3.04/77.25
Stroke (in/mm)	2.52/64
Piston to cylinder clearance (in/mm)	.0045-.0059/.115-.149
Piston ring end gap (in/mm)	.014-.020/.0356-.508
Operating RPM±200	8250
Idle RPM	1700
Clutch engagement RPM ±200	3800
Exhaust valve spring	Purple

#### Fuel Delivery

Type	Injected
Throttle Body Manufacturer	Mikuni
Throttle Body Bore Size (in/mm)	1.81/46
Fuel Injection Type	Kokusan
Regulator Pressure (psi/Bar)	58/4
TPS Voltage at Idle	.95 ±.01v
Throttle Gap @ Idle	0
Recommended fuel octane (R+M/2)	91 Min. NonOxy

#### Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-62	Black/Green	Red/Black	(64/42-.36) LW ER	23:39-76
600-1200 (2000-4000)	10-60	Black/Green	Red/Black	(56/42-.36) LW ER	22:39-76
1200-1800 (4000-6000)	10-58	Black/Green	Red/Black	(56/42-.36) LW ER	22:40-76
1800-2400 (6000-8000)	10-56	Black/Green	Red/Black	(56/42-.36) LW ER	22:40-76
2400-3000 (8000-10000)	10-54	Black/Green	Red/Black	(56/42-.36) LW ER	20:41-76
3000-3600 (10000-12000)	10 AL	Black/Green	Red/Black	(56/42-.36) LW ER	20:41-76

Drive clutch bolt torque 80 ft-lbs (108Nm)

#### Belt

Belt part number	3211080
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

#### Chaincase

Center distance (in/cm)	8.373/21.3
Reverse type	PERC

#### Fluids and Capacities

Fuel (gal/l)	11.7/44.3
Oil (qts/l)	3.4/3.2
Coolant (qts/l)	6.3/6
Chaincase (oz/ml)	11/325.3
Brake fluid type	DOT4

#### Track

Width (in/cm)	15/38
Length (in/cm)	121/307
Lug height (in/cm)	1/2.5(std) 1.25/3.175(opt)
Manufacturer	Camoplast
Track tension sag (in/cm) with 10 lbs/ 4.54kg placed 16 in/40.6cm ahead of rear idler shaft	.875-1.125/2.2-2.9

## Front Suspension

Suspension type	IQ
IFS shocks	Arvin/7043245*(Std.) Fox/7043268* LH, 7043269* RH (Opt)
IFS spring rate (lb/in - kg/mm)	100/1.79 (Std & Opt)
IFS Spring installed length (in/cm)	10.55/26.8 (Std & Opt)
Front vertical travel (in/cm)	10.25.4
Ski center distance (in/cm)	42.5/108
Camber (in/mm)	2.25±.31/5.7±.79
Toe (in/mm)	0-.12/0-3.0
* notes that shock is serviceable	

## Rear Suspension

Suspension type	IQ 121
Front track shock (FTS)	Arvin/7043244* (Std) Fox/7043267* (Opt)
FTS spring rate (lb/in - kg/mm)	130-270/2.3-4.8 (Std & Opt)
FTS installed length (in/mm)	7.97/20.2 (Std & Opt)
Rear track shock (RTS)	Fox/7043177*(Std) Fox/7043266*(Opt)
Rear Suspension Travel (in/cm)	13.9/35.3
* notes that shock is serviceable	

## Torsion Spring

Torsion spring PN (LH/RH)	7043070/7043071
Torsion spring diameter (in/mm)	.374/9.5
Torsion spring tail angle	80°

## Dimensions

Width (in/cm)	47.25/120
Length (in/cm)	115/292
Height (in/cm)	48/122
Est dry weight lb/kg	497/255.6

## Electrical

Ignition timing	18° @ 1700 RPM (±200 RPM) & 120° F (±10° F) 49 ° C (±12° C) water temp
Spark plug gap (in/mm)	.027/.70
Spark plug	Champion RN57YCC
Voltage regulator/output	400watt

## Features

Electric Fuel Gauge	Standard
Electric Start	Optional
Low Oil Light	Standard
Parking Brake	Standard
Speedometer	Standard
Tachometer	Standard

# MODEL SPECIFICATIONS

## 600 HO IQ LX CLEANFIRE

### MODEL S07PD6HS

#### Body

Body Style	IQ Luxury
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#### Engine

Engine type	Liberty
Engine displacement	599
Engine model number	S3206-6044-PF6H
Bore (in/mm)	3.04/77.25
Stroke (in/mm)	2.52/64
Piston to cylinder clearance (in/mm)	.0045-.0059/.115-.149
Piston to cylinder service limit (in/mm)	.0059/.149
Piston ring end gap (in/mm)	.014-.020/.0356-.508
Operating RPM±200	8250
Idle RPM	1700
Clutch engagement RPM ±200	3800
Exhaust valve spring	Purple

#### Fuel Delivery

Type	Injected
Throttle Body Manufacturer	Mikuni
Throttle Body Bore Size (in/mm)	1.81/46
Fuel Injection Type	Kokusan
Regulator Pressure (psi/Bar)	58/4
TPS Voltage at Idle	.95 ±.01v
Throttle Gap @ Idle	0
Recommended fuel octane (R+M/2)	91 Min. NonOxy

#### Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-62	Black/Green	Red/Black	(64/42-.36) LW ER	22:39-76
600-1200 (2000-4000)	10-60	Black/Green	Red/Black	(56/42-.36) LW ER	22:39-76
1200-1800 (4000-6000)	10-58	Black/Green	Red/Black	(56/42-.36) LW ER	22:40-76
1800-2400 (6000-8000)	10-56	Black/Green	Red/Black	(56/42-.36) LW ER	22:40-76
2400-3000 (8000-10000)	10-54	Black/Green	Red/Black	(56/42-.36) LW ER	20:41-76
3000-3600 (10000-12000)	10 AL	Black/Green	Red/Black	(56/42-.36) LW ER	20:41-76

Drive clutch bolt torque 80 ft-lbs (108Nm)

#### Belt

Belt part number	3211080
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

#### Chaincase

Center distance (in/cm)	7.92/20.1
Reverse type	PERC

#### Fluids and Capacities

Fuel (gal/l)	11.7/44.3
Oil (qts/l)	3.4/3.2
Coolant (qts/l)	7/6.6
Chaincase (oz/ml)	9/266.2
Brake fluid type	DOT4

#### Track

Width (in/cm)	15/38
Length (in/cm)	128/325
Lug height (in/cm)	1/2.5
Manufacturer	Camoplast
Track tension sag (in/cm) with 10 lbs/ 4.54kg placed 16 in/40.6cm ahead of rear idler shaft	.875-1.13/2.2-2.9

## Front Suspension

Suspension type	IQ
IFS shocks	Arvin /7043054
IFS spring rate (lb/in - kg/mm)	120/2.1
IFS Spring installed length (in/cm)	9.95/25.3
Front vertical travel (in/cm)	10/25.4
Ski center distance (in/cm)	41.16" 104.5
Camber (in/mm)	2.25" ±.31" 5.7 ±.79
Toe (in/mm)	0-.12" 0-3
* notes that shock is serviceable	

## Rear Suspension

Suspension type	M-10 128
Front track shock (FTS)	Arvin /7043243
FTS spring rate (lb/in - kg/mm)	160/2.86
FTS spring installed length (in/cm)	8/20.3
Rear track shock (RTS)	Fox /7043216*
Rear travel (in/cm)	13/33
* notes that shock is serviceable	

## Dimensions

Width (in/cm)	47.25/120
Length (in/cm)	116/295
Height (in/cm)	51/130
Est dry weight lb/kg	505/229.3

## Electrical

Ignition timing	18° @ 1700 RPM (±200 RPM) & 120° F (±10° F) 49 ° C (±12° C) water temp
Spark plug gap (in/mm)	.027/.70
Spark plug	Champion RN57YCC
Voltage regulator/output	400watt
Base ECU	4011518

# MODEL SPECIFICATIONS

## 600 HO SWITCHBACK

### MODEL S07PS6FS(A)

#### Engine

Engine type	Liberty
Engine displacement	599cc
Engine model number	S3273-6044-PF6F
Bore (in/mm)	3.04/77.25
Stroke (in/mm)	2.52/64
Piston to cylinder clearance (in/mm)	.0045-.0059/.114-.150
Piston ring end gap (in/mm)	.014-.020/.36-.51
Operating RPM±200	8100
Idle RPM±200	1500
Clutch engagement RPM ±200	3800
Exhaust valve spring	Pink

#### Fuel Delivery

Type	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
Throttle slide cutaway	1.5 Notch
Valve seat	1.5
Starter jet	145
Pilot air jet	.6
Fuel screw setting	1.25
Air screw setting	N/A
Recommended fuel octane (R+M/2)	91

#### 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 #1	280 #1	270 #1	260 #1
2400-3000 (8000-10000)	310 #2	300 #2	290 #2	280 #1	270 #1	260 #1	250 #1	240 #1
3000-3700 (10000-12000)	290 #2	280 #2	270 #1	250 #1	240 #1	230 #1	220 #1	210 #1

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

#### Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-62	Black/ Green	Red/ Black	64/42-36 ER	22:39-76
600-1200 (2000-4000)	10-60	Black/ Green	Red/ Black	56/42-36 ER	22:39-76
1200-1800 (4000-6000)	10-58	Black/ Green	Red/ Black	56/42-36 ER	22:39-76
1800-2400 (6000-8000)	10-56	Black/ Green	Red/ Black	56/42-36 ER	20:41-76
2400-3000 (8000-10000)	10-54	Black/ Green	Red/ Black	56/42-36 ER	20:41-76
3000-3700 (10000-12000)	10AL	Black/ Green	Red/ Black	56/42-36 ER	20:41-76

Drive clutch bolt torque 50 ft-lbs (69 N-m)

#### Belt

Belt part number	3211080
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

## Chaincase

Center distance (in/cm)	8.373/21.27
Reverse type	PERC

## Fluids and Capacities

Fuel (gal/l)	10.8/40.9
Oil (qts/l)	3.4/3.2
Coolant (qts/l)	6...3/6
Chaincase (oz/ml)	11/325.3
Brake fluid type	DOT 4

## Track

Width (in/cm)	15/38
Length (in/cm)	144/366
Lug height (in/cm)	1.25/3.2 (Std) 1.50/3.8(Opt)
Manufacturer	Camoplast
Track tension sag (in/cm) with 10 lbs/ 4.54kg placed 16 in/40.6cm ahead of rear idler shaft	.375-.50/1-1.3

## Front Suspension

Suspension type	IQ 42.5
IFS shocks	Fox/7043141* (Std) Fox/ 7043268*,7043269* (Option)
IFS spring rate (lb/in - kg/mm)	100/1.79 (Std & Opt)
Spring installed length (in/cm)	10.55/26.8 (Std & Opt)
Front vertical travel (in/cm)	10/25.4
Ski center distance (in/cm)	42.5/108
Camber (in/cm)	2.25±.31/5.7±.79
Toe (in/mm)	0-.12/0-3.0
* notes that shock is serviceable	

## Rear Suspension

Suspension type	IQ Switchback
Front track shock (FTS)	Fox/7043142*
FTS spring rate lbs-in/kg-mm	170/3.0
FTS spring installed length (in/cm)	7.25/18.4
Rear track shock	Fox/7043246*
Rear travel (in/cm)	13.9/35.3
* notes that shock is serviceable	

## Torsion Spring

Torsion spring PNs (LH/RH)	7041629/7041630
Torsion spring diameter (in/mm)	.359/9.12
Torsion spring tail angle	77°

## Dimensions

Width (in/cm)	47.25/120
Length (in/cm)	126/320
Height (in/cm)	48/122
Est dry weight lb/kg	483/219

## Electrical

Ignition timing	26° @ 3500 w/TPS unplugged
Spark plug gap (in/mm)	.027/.70
Spark plug	Champion RN57YCC
Voltage regulator/output	280w
CDI marking	4011033
Flywheel marking	4010677

# MODEL SPECIFICATIONS

## 600 HO SWITCHBACK CLEANFIRE

### Belt

### MODEL S07PS6HS(A,B)

#### Engine

Engine type	Liberty
Engine displacement	599cc
Engine model number	S3206-6044-PF6H
Bore (in/mm)	3.04/77.25
Stroke (in/mm)	2.52/64
Piston to cylinder clearance (in/mm)	.0045-.0059/.115-.149
Piston ring end gap (in/mm)	.014-.020/.36-.51
Operating RPM±200	8250
Idle RPM±200	1700
Clutch engagement RPM ±200	3800
Exhaust valve spring	Purple

#### Fuel Delivery

Type	Injected
Throttle Body Manufacturer	Mikuni
Throttle Body Bore Size (in/mm)	1.81/46
Fuel Injection Type	Kokusan
Regulator Pressure (psi/Bar)	58/4
TPS Voltage at Idle	.95 ±.01v
Throttle Gap @ Idle	0
Recommended fuel octane (R+M/2)	91 Min. NonOxy

#### Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-62	Black/ Green	Red/ Black	64/42-36 ER	22:39-76
600-1200 (2000-4000)	10-60	Black/ Green	Red/ Black	56/42-36 ER	22:39-76
1200-1800 (4000-6000)	10-58	Black/ Green	Red/ Black	56/42-36 ER	22:40-76
1800-2400 (6000-8000)	10-56	Black/ Green	Red/ Black	56/42-36 ER	20:41-76
2400-3000 (8000-10000)	10-54	Black/ Green	Red/ Black	56/42-36 ER	20:41-76
3000-3700 (10000-12000)	10AL	Black/ Green	Red/ Black	56/42-36 ER	20:41-76

Drive clutch bolt torque 80 ft-lbs (108Nm)

Belt part number	3211080
Belt width (in/cm)	1.438/3.65
Belt side angle	28°
Outside diameter (in/cm)	46.625/118.4
Clutch center distance (in/cm)	11.5/29.2

#### Chaincase

Center distance (in/cm)	8.373/21.27
Reverse type	PERC

#### Fluids and capacities

Fuel (gal/l)	11.7/44.3
Oil (qts/l)	3.4/3.2
Coolant (qts/l)	6.3/6
Chaincase (oz/ml)	11/325.3
Brake fluid type	DOT 4

#### Track

Width (in/cm)	15/38
Length (in/cm)	144/366
Lug height (in/cm)	1.25/3.2 (Std) 1.50/3.8 (Option)
Manufacturer	Camoplast
Track tension sag (in/cm) with 10 lbs/ 4.54kg placed 16 in/40.6cm ahead of rear idler shaft	.375-.50/1-1.3