



CHAPTER 1 SPECIFICATIONS

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TRAIL TOURING	1.18
600 EDGE TOURING	1.20
700 TOURING	1.22
WIDETRAK LX	1.24
500 XC SP	1.26
600 HO STANDARD FUSION	1.28
600 HO DRAGON FUSION	1.30
700 FUSION	1.32
900 FUSION	1.34
600 HO SWITCHBACK	1.36
900 SWITCHBACK	1.38
TRAIL RMK	1.40
600 HO RMK	1.42
700 RMK	1.44
900 RMK	1.46

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340 CLASSIC

MODEL S06ND3AS

Table 1-1: 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/.076-.127
Piston ring end gap	.008-.014/.20-.35
Operating RPM±200	7000
Idle RPM±200	1600
Clutch engagement RPM ±200	4100

Table 1-2: 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/89 Oxy Min

Table 1-3: 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
0-600 (0-2000)	185 #4	180 #3	170 #3	170 #3	165 #3	160 #3	155 #3
600-1200 (2000-4000)	175 #3	170 #3	160 #3	160 #3	155 #3	150 #3	140 #2
1200-1800 (4000-6000)	165 #3	160 #3	155 #3	150 #3	145 #3	140 #2	130 #2
1800-2400 (6000-8000)	155 #3	150 #3	140 #3	135 #3	135 #2	130 #2	120 #1
2400-3000 (8000-10000)	145 #3	140 #3	130 #2	130 #2	125 #2	120 #1	110 #1
3000-3700 (10000-12000)	135 #3	130 #2	120 #2	115 #2	115 #1	110 #1	100 #1

Table 1-4: 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	Black-2287	Red/Black	S36ER	16:41-72
900-1800 (3000-6000)	10-M Blue	Black-2287	Red/Black	S36ER	16:41-72
1800-2700 (6000-9000)	10MW	Black-2287	Red/Black	S36ER	16:41-72
2700-3700 (9000-12000)	10MR	Black-2287	Red/Black	S36ER	16:41-72
Drive clutch bolt torque 50 ft-lbs(69Nm)					

Table 1-5: 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

Table 1-6: Chaincase

Center distance in/cm	7.92/20.1
Reverse type	PERC



**Table 1-7: 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

Table 1-8: Track

Width in/cm	15/38
Length in/cm	121/307
Lug height in/cm	.82/2.1
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

Table 1-9: Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7041932
IFS spring rate lbs-in/kg-mm	100/1.79
IFS Spring pre-load in/mm	.625/16
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

Table 1-10: Rear Suspension

Suspension type	Edge
Front track shock (FTS)	Arvin/7041939
FTS Spring Rate lbs-in/kg-mm	200/3.58
FTS pre-load	Fixed
Rear track shock	Fox/7042120*
Rear travel in/cm	13.9/35.3
* notes that shock is rebuildable	

Table 1-11: Torsion spring

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

Table 1-12: Dimensions

Width in/cm	48/122
Length in/cm	113/287
Height in/cm	48/122
Est dry weight lb/kg	517/234.7

Table 1-13: Electrical

Ignition timing	26.5°@3000RPM
Spark plug gap in/mm	.028/.71
Spark plug	NGK BR8ES
Voltage regulator/output	240watt
Magneto pulse	6
CDI marking	CU7245



500 CLASSIC

MODEL S06ND4BS

Table 1-14: Engine

Engine type	Fuji
Engine displacement	488cc
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	.0079-.016/.20-.40
Operating RPM±200	7800
Idle RPM	1600
Clutch engagement RPM ±200	4000

Table 1-15: Fuel Delivery

Type	TM38
Main Jet	360
Pilot Jet	40
Jet Needle/Clip position	9DFY1-54/2
Needle Jet	P-2(825)
Throttle gap under cutaway in/mm	.078/2.0
Throttle slide cutaway	2
Valve seat	1.5 Viton
Starter jet	145
Pilot air jet	0.9
Fuel screw setting	1.5
Air screw setting	N/A
Recommended fuel octane (R+M/2)	Min 87 NonOxy/89 Oxy Min

Table 1-16: Jetting

Altitude meters (feet)	Ambient Temperature					
	< -30°F / < -34°C	-30°F to +10°F / -34°C to -23°C	-10°F to +10°F / -23°C to -12°C	+10°F to +30°F / -12°C to -1°C	+30°F to +50°F / -1°C to +10°C	> 50°F / > +10°C
0-600 (0-2000)	390 #4	370 #3	360 #3	360 #2	340 #2	320 #2
600-1200 (2000-4000)	370 #3	350 #3	340 #2	320 #2	310 #2	300 #2
1200-1800 (4000-6000)	350 #3	330 #3	320 #2	300 #2	290 #2	270 #1
1800-2400 (6000-8000)	320 #3	310 #3	300 #2	380 #2	370 #1	250 #1
2400-3000 (8000-10000)	300 #3	290 #2	270 #2	260 #1	240 #1	230 #1
3000-3700 (10000-12000)	280 #2	270 #2	250 #1	240 #1	220 #1	210 #1

Table 1-17: 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-M5	Gold	Black	36 D Button #2	21:40-74
900-1800 (3000-6000)	10-M Blue	Gold	Black	36 D Button #2	21:40-74
1800-2700 (6000-9000)	10 MW	Dark Blue/White	Black	36 D Button #2	21:40-74
2700-3700 (9000-12000)	10M Red	Dark Blue/White	Black	36 D Button #2	21:40-74
Drive clutch bolt torque 50 ft-lbs(69Nm)					

Table 1-18: 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

Table 1-19: Chaincase

Center distance in/cm	7.92/20.1
Reverse type	Mechanical





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Table 1-20: Fluids and capacities

Fuel gal/l	11.8/44.7
Oil qts/l	3.25/3.1
Coolant qts/l	4.8/4.5
Chaincase oz/ml	9/266.2
Brake fluid type	DOT4

Table 1-21: Track

Width in/cm	15/38
Length in/cm	121/307
Lug height in/cm	1/2.5
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

Table 1-22: Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7041918
IFS spring rate lbs-in/kg-mm	100/1.79
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

Table 1-23: Rear Suspension

Suspension type	Edge M-10
Front track shock (FTS)	Fox/7042224*
FTS spring rate lbs-in/kg-mm	160/2.86
FTS pre-load in/mm	.90/23
Rear track shock (RTS)	Fox/7042216*
RTS Springs	7041935-7041936
RTS Spring Rate lbs-in/kg-mm	185 VAR-1000/3.3-17.9
RTS spring installed length in/cm	10.5/25.4
Rear travel in/cm	14/35.6
* notes that shock is rebuildable	

Table 1-24: Dimensions

Width in/cm	48/122
Length in/cm	113/287
Height in/cm	48/122
Est dry weight lb/kg	471/213.8

Table 1-25: Electrical

Ignition timing	26°@3000
Spark plug gap in/mm	.028/.71
Spark plug	Champion RN3C
Voltage regulator/output	200watt
Magneto pulse	2
CDI marking	IU2212



550 CLASSIC

MODEL S06ND5BS

Table 1-26: Engine

Engine type	Fuji
Engine displacement	544cc
Bore in/mm	2.87/73
Stroke in/mm	2.56/65
Piston to cylinder clearance in/mm	.0045-.0053/.11-.13
Piston ring end gap	.016-.022/.40-.55
Operating RPM $\pm$ 200	7000
Idle RPM	1600
Clutch engagement RPM $\pm$ 200	3800
Exhaust valve spring	N/A

Table 1-27: Fuel Delivery

Type	VM34
Main Jet	280 PTO/270 MAG
Pilot Jet	40
Jet Needle/Clip position	6BGY41/3
Needle Jet	Q-4 (480)
Throttle gap under cutaway in/mm	.250/6.35
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/89 Oxy Min

Table 1-28: Jetting

Altitude meters (feet)	Ambient Temperature					
	< -30° F / < -34° C	-30° F to +10° F / -34° C to -23° C	-10° F to +10° F / -23° C to -12° C	+10° F to +30° F / -12° C to -1° C	+30° F to +50° F / -1° C to +10° C	> 50° F / > +10° C
0-600 (0-2000)	300/290 #4	290/280 #3	280/270 #3	270/260 #3	260/250 #3	250/240 #2
600-1200 (2000-4000)	290/280 #3	270/260 #3	260/250 #3	250/240 #3	240/230 #3	230/220 #2
1200-1800 (4000-6000)	270/260 #3	260/250 #3	250/240 #3	240/230 #2	230/220 #2	220/210 #2
1800-2400 (6000-8000)	250/240 #3	240/230 #3	230/220 #2	220/210 #2	210/200 #1	200/190 #1
2400-3000 (8000-10000)	240/230 #3	230/220 #2	220/210 #2	200/190 #2	190/180 #1	180/170 #1
3000-3700 (10000-12000)	220/210 #2	210/200 #2	200/190 #2	190/180 #1	180/170 #1	170/160 #1
Jetting listed as PTO/MAG						

Table 1-29: Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-900 (0-3000)	10-62	Dark Blue/White	Red/Blue	S40 ER	19:39- 72
900-1800 (3000-6000)	10-60	Dark Blue/White	Red/Blue	S40 ER	19:39- 72
1800-2700 (6000-9000)	10-60	Dark Blue/White	Red/Blue	S40 ER	19:39- 72
2700-3700 (9000-12000)	10-58	Dark Blue/White	Red/Blue	S40 ER	19:39- 72
Drive clutch bolt torque 50 ft-lbs(69Nm)					

Table 1-30: 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

Table 1-31: Chaincase

Center distance in/cm	7.92/20.1
Reverse type	PERC



**Table 1-32: 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

Table 1-33: Track

Width in/cm	15/38
Length in/cm	121/307
Lug height in/cm	.82/2.1
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

Table 1-34: Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7041932
IFS spring rate lbs-in/kg-mm	100/1.79
IFS spring installed length in/cm	9.81/24.9
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

Table 1-35: Rear Suspension

Suspension type	Edge
Front track shock (FTS)	Arvin/7041939
FTS Spring rate lbs-in/kg-mm	100/1.79
FTS Installed length	Fixed
Rear track shock	Fox/7042129*
Rear travel in/cm	13.9/35.3
* notes that shock is rebuildable	

Table 1-36: Torsion spring

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

Table 1-37: Dimensions

Width in/cm	48/122
Length in/cm	113/287
Height in/cm	48/122
Est dry weight lb/kg	489/222

Table 1-38: Electrical

Ignition timing	27°@3000 14°@6500
Spark plug gap in/mm	.028/.71
Spark plug	NGK BR9ES
Voltage regulator/output	240watt
Magneto pulse	6
CDI marking	CU7242



600 CLASSIC

MODEL S06ND6ES

Table 1-39: Engine

Engine type	Liberty
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	.014-.020/.0356-.508
Operating RPM $\pm$ 200	8100
Idle RPM	1200
Clutch engagement RPM $\pm$ 200	4000
Exhaust valve spring	Green/Yellow

Table 1-40: Fuel Delivery

Type	TM38
Main Jet	440
Pilot Jet	45
Jet Needle/Clip position	9DFH7-60/3
Needle Jet	P-8
Throttle gap under cutaway in/mm	.079/2
Throttle slide cutaway	2.5
Valve seat	1.5
Starter jet	140
Pilot air jet	N/A
Fuel screw setting	2.5
Air screw setting	1
Recommended fuel octane (R+M/2)	87 Min. NonOxy

Table 1-41: 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
0-600 (0-2000)	480 #4	460 #4	440 #3	430 #3	420 #3	400 #3	390 #2
600-1200 (2000-4000)	450 #4	430 #4	420 #4	410 #3	400 #3	380 #2	360 #2
1200-1800 (4000-6000)	420 #4	400 #4	390 #3	380 #3	370 #2	350 #2	330 #2
1800-2400 (6000-8000)	400 #4	380 #3	360 #2	350 #2	340 #2	330 #2	310 #2
2400-3000 (8000-10000)	370 #3	350 #2	340 #2	330 #2	320 #2	300 #2	280 #2
3000-3700 (10000-12000)	340 #2	330 #2	310 #2	300 #2	290 #2	270 #1	260 #1
When using non oxygenated fuel with a research octane Number (RON) of greater than 93, decrease the main jet number on the above chart by 30.							

Table 1-42: Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-900 (0-3000)	10-58	Dark Blue/White	Red/Blue	58/42-36 ER	23:39-74
900-1800 (3000-6000)	10-56	Dark Blue/White	Red/Blue	58/42-36 ER	23:39-74
1800-2700 (6000-9000)	10-54	Dark Blue/White	Red/Blue	58/42-36 ER	23:39-74
2700-3700 (9000-12000)	10	Dark Blue/White	Red/Blue	58/42-36 ER	22:39-74
Drive clutch bolt torque 50 ft-lbs(69Nm)					

Table 1-43: 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



**Table 1-44: Chaincase**

Center distance in/cm	7.92/20.1
Reverse type	PERC

Table 1-45: 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

Table 1-46: Track

Width in/cm	15/38
Length in/cm	121/307
Lug height in/cm	1/2.5
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

Table 1-47: Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7041918
IFS spring rate lbs-in/kg-mm	90-180/1.6-3.2
IFS Spring installed length in/cm	9.5/24.1
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

Table 1-48: Rear Suspension

Suspension type	Edge M-10
Front track shock (FTS)	Fox/7042224*
FTS spring rate in-lbs/kg-mm	160/2.86
FTS pre-load in/mm	.90/23
Rear track shock (RTS)	Fox/7042216*
RTS Springs	7041935-7041936
RTS Spring Rate lbs-in/kg-mm	185 VAR-1000/3.3-17.9
RTS spring installed length in/cm	10.5/25.4
Rear travel in/cm	14/35.6
* notes that shock is rebuildable	

Table 1-49: Dimensions

Width in/cm	47.25/120
Length in/cm	113/287
Height in/cm	48/122
Est dry weight lb/kg	497/255.6

Table 1-50: Electrical

Ignition timing	24°@3500RPM
Spark plug gap in/mm	.025/.64
Spark plug	Champion RN57YCC
Voltage regulator/output	280watt
Magneto pulse	6
CDI marking	4010830



700 CLASSIC

MODEL S06PD7HS

Table 1-51: Engine

Engine type	Liberty
Engine displacement	755
Bore in/mm	3.05/77.5
Stroke in/mm	3.15/80
Piston to cylinder clearance in/mm	.0045-.0074/.114-.188
Piston ring end gap	.014-.020/.35-.50
Operating RPM $\pm$ 200	7600
Idle RPM	1700
Clutch engagement RPM $\pm$ 200	3700
Exhaust valve spring	Purple

Table 1-52: Fuel Delivery

Type	Cleanfire
Throttle body size in/mm	2.0/51
Fuel pressure psi/bar	116/8
Recommended fuel octane (R+M/2)	91

Table 1-53: Idle TPS voltage setting

Altitude meters/feet	Voltage $\pm$.01v
0-1800(0-6000)	.93
1800-2700(6000-9000)	.95
> 2700 (>9000)	.97

Table 1-54: Clutching

ALTITUDE meters (feet)	DRIVE CLUTCH (P-85)		DRIVEN CLUTCH (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-72	Dark Blue / White	Red/Black	62/42-46 ER	23:39-76
600-1200 (2000-4000)	10-72	Dark Blue / White	Red/Black	62/42-46 ER	23:39-76
1200-1800 (4000-6000)	10-70	Dark Blue / White	Red/Black	62/42-46 ER	23:39-76
1800-2400 (6000-8000)	10-68	Black / Green	Red/Black	62/38-36 ER	22:40-76
2400-3000 (8000-10000)	10-66	Black / Green	Red/Black	62/38-36 ER	20:41-76
3000-3600 (10000-12000)	10-64	Black / Green	Red/Black	62/38-36 ER	20:41-76

Drive clutch bolt torque 96 ft-lbs (130Nm)

Table 1-55: 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

Table 1-56: Chaincase

Center distance in/cm	8.373/21.27
Reverse type	PERC

Table 1-57: Fluids and capacities

Fuel gal/l	9.2/34.8
Oil qts/l	3/2.8
Coolant qts/l	6.7/6.3
Chaincase oz/ml	11/325.3
Brake fluid type	DOT 4

Table 1-58: M-10 Track

Width in/cm	15/38
Length in/cm	128/325
Lug height in/cm	1.25/3.2
Track tension sag in/cm with 10 lbs/4.54kg placed 16 in/40.6cm ahead of rear idler shaft	7/8" - 1 1/8" (2.2 - 2.9cm)



**Table 1-59: Front Suspension**

Suspension type	IQ 42.5
IFS shocks	Arvin/7043054
IFS spring rate lbs-in/kg-mm	120/2.1
Spring installed length in/cm	9.95/25.3
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

Table 1-60: M-10 Rear Suspension

Suspension type	M-10 128
Front track shock (FTS)	Fox/7043123*
FTS spring rate lbs-in/kg-mm	160/2.9
FTS spring installed length in/cm	8/20.3
Rear track shock	Fox/7043190*
Lower outer spring lbs-in/kg-mm	715/12.8
Lower inner spring lbs-in/kg-mm	425/7.6
Upper spring lbs-in/kg-mm	273/4.9
Rear travel in/cm	13/33
* notes that shock is rebuildable	

Table 1-61: Dimensions

Width in/cm	48/121.9
Length in/cm	115/292.1
Height in/cm	53/134.6
Est dry weight lb/kg	524/237

Table 1-62: Electrical

Stator output	400w@4000RPM
Ignition timing @ 9.6-12.7% throttle	16° @3500
Spark plug gap in/mm	.025/.64
Spark plug	Champion RN57YCC



500 INDY

MODEL S06NB4BS

Table 1-63: Engine

Engine type	Fuji
Engine displacement	488cc
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	.008-.016/.20-.40
Operating RPM±200	7800
Idle RPM	1600
Clutch engagement RPM ±200	4000
Exhaust valve spring	N/A

Table 1-64: Fuel Delivery

Type	TM38
Main Jet	360
Pilot Jet	40
Jet Needle/Clip position	9DFY1-54/2
Needle Jet	P-2 (825)
Throttle gap under cutaway in/mm	.078/2.0
Throttle slide cutaway	2
Valve seat	1.5 Viton
Starter jet	145
Pilot air jet	0.9
Fuel screw setting	1.5
Air screw setting	N/A
Recommended fuel octane (R+M/2)	87 NonOxy/89 Oxy Min

Table 1-65: Jetting

Altitude meters (feet)	Ambient Temperature					
	< -30°F / < -34°C	-30°F to +10°F / -34°C to -23°C	-10°F to +10°F / -23°C to -12°C	+10°F to +30°F / -12°C to -1°C	+30°F to +50°F / -1°C to +10°C	> 50°F / > +10°C
0-600 (0-2000)	390 #4	370 #3	360 #3	360 #2	340 #2	320 #2
600-1200 (2000-4000)	370 #3	350 #3	340 #2	320 #2	310 #2	300 #2
1200-1800 (4000-6000)	350 #3	330 #3	320 #2	300 #2	290 #2	270 #1
1800-2400 (6000-8000)	320 #3	310 #3	300 #2	280 #2	270 #1	250 #1
2400-3000 (8000-10000)	300 #3	290 #2	270 #2	260 #1	240 #1	230 #1
3000-3700 (10000-12000)	280 #2	270 #2	250 #1	240 #1	220 #1	210 #1

Table 1-66: 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-M5	Gold	Black	36 D Button #2	21:40-74
900-1800 (3000-6000)	10-M Blue	Gold	Black	36 D Button #2	21:40-74
1800-2700 (6000-9000)	10 MW	Dark Blue/White	Black	36 D Button #2	21:40-74
2700-3700 (9000-12000)	10M Red	Dark Blue/White	Black	36 D Button #2	21:40-74
Drive clutch bolt torque 50 ft-lbs					

Table 1-67: 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

Table 1-68: Chaincase

Center distance in/cm	7.92/20.1
Reverse type	PERC



**Table 1-69: Fluids and capacities**

Fuel gal/l	11.8/44.7
Oil qts/l	3.25/3.1
Coolant qts/l	4.5/4.3
Chaincase oz/ml	9/266.2
Brake fluid type	DOT4

Table 1-70: Track

Width in/cm	15/38
Length in/cm	121/307
Lug height in/cm	.82/2.1
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

Table 1-71: Front Suspension

Suspension type	Edge
IFS shocks	Nitrex/7041932
IFS spring rate lbs-in/kg-mm	100/1.79
Spring installed length in/cm	9.81/24.9
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

Table 1-72: Rear Suspension

Suspension type	Edge
Front track shock (FTS)	Arvin/7041939
FTS spring rate lbs-in/kg-mm	200/3.58
FTS spring installed length	Fixed
Rear track shock	Fox/7042129*
Rear travel in/cm	13.9/35.3
* notes that shock is rebuildable	

Table 1-73: Torsion spring

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

Table 1-74: Dimensions

Width in/cm	48/122
Length in/cm	113/287
Height in/cm	48/122
Est dry weight lb/kg	469/212.9

Table 1-75: Electrical

Ignition timing	26°@3000
Spark plug gap in/mm	.028/.71
Spark plug	Champion RN3C
Voltage regulator/output	200watt
Magneto pulse	2
CDI marking	IU2212



SUPERSPORT

MODEL S06N(E,P)5BS(A,B)

Table 1-76: Engine

Engine type	Fuji
Engine displacement	544cc
Bore in/mm	2.87/73
Stroke in/mm	2.56/65
Piston to cylinder clearance in/mm	.0045-.0053/.11-.13
Piston ring end gap	.016-.022/.40-.55
Operating RPM±200	7000
Idle RPM±200	1600
Clutch engagement RPM ±200	3800
Exhaust valve spring	N/A

Table 1-77: Fuel Delivery

Type	VM34
Main Jet	280 PTO/270 MAG
Pilot Jet	40
Jet Needle/Clip position	6BGY41/3
Needle Jet	Q-4 (480)
Throttle gap under cutaway in/mm	.250/6.35
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/98 Oxy Min

Table 1-78: Jetting

Altitude meters (feet)	Ambient Temperature					
	< -30° F / < -34° C	-30° F to +10° F / -34° C to -23° C	-10° F to +10° F / -23° C to -12° C	+10° F to +30° F / -12° C to -1° C	+30° F to +50° F / -1° C to +10° C	> 50° F / > +10° C
0-600 (0-2000)	300/290 #4	290/280 #3	280/270 #3	270/260 #3	260/250 #3	250/240 #2
600-1200 (2000-4000)	290/280 #3	270/260 #3	260/250 #3	250/240 #3	240/230 #2	230/220 #2
1200-1800 (4000-6000)	270/260 #3	260/250 #3	250/240 #3	240/230 #2	230/220 #2	220/210 #2
1800-2400 (6000-8000)	250/240 #3	240/230 #3	230/220 #2	220/210 #2	210/200 #1	200/190 #1
2400-3000 (8000-10000)	240/230 #3	230/220 #2	220/210 #2	200/190 #2	190/180 #1	180/170 #1
3000-3700 (10000-12000)	220/210 #2	210/200 #2	200/190 #2	190/180 #1	180/170 #1	170/160 #1
Jetting listed as PTO/MAG						

Table 1-79: Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-900 (0-3000)	10-62	Dark Blue/White	Red/Blue	S40 ER	19:39- 72
900-1800 (3000-6000)	10-60	Dark Blue/White	Red/Blue	S40 ER	19:39- 72
1800-2700 (6000-9000)	10-60	Dark Blue/White	Red/Blue	S40 ER	19:39- 72
2700-3700 (9000-12000)	10-58	Dark Blue/White	Red/Blue	S40 ER	19:39- 72
Drive clutch bolt torque 50 ft-lbs					

Table 1-80: 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

Table 1-81: Chaincase

Center distance in/cm	7.92/18.52
Reverse type	PERC





SPECIFICATIONS

Table 1-82: 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

Table 1-83: IQ Track

Width in/cm	15/38
Length in/cm	121/307
Lug height in/cm	.82/2.1
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

Table 1-84: M-10 Track

Width in/cm	15/38
Length in/cm	121/307
Lug height in/cm	1/2.5
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

Table 1-85: Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7041932
IFS spring rate lbs-in/kg-mm	100/1.79
Spring installed length in/cm	9.81/24.9
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

Table 1-86: Edge Rear Suspension

Front track shock (FTS)	Arvin/7041939*
FTS spring rate lbs-in/kg-mm	200 Var/ 3.6Var
FTS spring installed length in/cm	7.5/19.1
Rear track shock	Fox/7042129*
Rear travel in/cm	13.9/35.3
* notes that shock is rebuildable	

Table 1-87: M-10 Rear Suspension

Front track shock	Fox/7042224*
Front track shock spring rate lbs-in/kg-mm	160/2.9
Spring installed length in/cm	8.375/21.3
Rear track shock	Fox/7042216*
Rear track shock spring (RTS) part number	7041935-7041936
RTS spring rate lbs-in/kg-mm	185 Var-1000/3.3-17.9
RTS Installed length	10.5/26.7
Rear travel in/cm	13.9/35.3
* notes that shock is rebuildable	

Table 1-88: Dimensions

Width in/cm	47.25/120
Length in/cm	113/287
Height in/cm	46/117
Est dry weight lb/kg	EDGE 477/216.4 M-10 470/213.2

Table 1-89: Electrical

Ignition timing	27°@3000
Spark plug gap in/mm	.028/.70
Spark plug	NGK BR9ES
Voltage regulator/output	240watt
Magneto pulse	6
CDI marking	CU7242



340 INDY TOURING

MODEL S06NT3AS

Table 1-90: 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	.008-.014/.20-.350
Operating RPM±200	7000
Idle RPM	1600
Clutch engagement RPM ±200	3700

Table 1-91: 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/89 Oxy Min

Table 1-92: 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
0-600 (0-2000)	185 #4	180 #3	170 #3	170 #3	165 #3	160 #3	155 #3
600-1200 (2000-4000)	175 #3	170 #3	160 #3	160 #3	155 #3	150 #3	140 #2
1200-1800 (4000-6000)	165 #3	160 #3	155 #3	150 #3	145 #3	140 #2	130 #2
1800-2400 (6000-8000)	155 #3	150 #3	140 #3	135 #3	135 #2	130 #2	120 #1
2400-3000 (8000-10000)	145 #3	140 #3	130 #2	130 #2	125 #2	120 #1	110 #1
3000-3700 (10000-12000)	135 #3	130 #2	120 #2	115 #2	115 #1	110 #1	100 #1

Table 1-93: 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	Black-2287	Blue/Black	54/38-25ER	17:41-72
900-1800 (3000-6000)	10-M Blue	Black-2287	Blue/Black	54/38-25ER	17:41-72
1800-2700 (6000-9000)	10 MW	Black-2287	Blue/Black	54/38-25ER	17:41-72
2700-3700 (9000-12000)	10 MR	Black-2287	Blue/Black	54/38-25ER	17:41-72

Drive clutch bolt torque 50 ft-lbs(69Nm)

Table 1-94: 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

Table 1-95: Chaincase

Center distance in/cm	7.92/20.1
Reverse type	PERC



**Table 1-96: 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

Table 1-97: Track

Width in/cm	15/38
Length in/cm	136/345
Lug height in/cm	1/2.5
Track tension sag in/cm with 10 lbs/4.54kg placed 16 in/40.6cm ahead of rear idler shaft	3/8" - 1/2" (.95-1.27cm)

Table 1-98: Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7041932
IFS spring rate lbs-in/kg-mm	100/1.79
Spring installed length in/cm	9.81/24.9
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

Table 1-99: Rear Suspension

Suspension type	Edge
Front track shock (FTS)	Arvin/7041939
FTS spring rate lbs-in/kg-mm	200 Var/3.6
FTS spring installed length in/cm	7.5/19.1
Rear track shock	Arvin/7042138
Rear travel in/cm	13.9/35.3
* notes that shock is rebuildable	

Table 1-100: Torsion spring

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

Table 1-101: Dimensions

Width in/cm	48/121.9
Length in/cm	128/325.1
Height in/cm	49.5/125.7
Est dry weight lb/kg	517/234.7

Table 1-102: Electrical

Ignition timing	26.5°@3000RPM
Spark plug gap in/mm	.028/.70
Spark plug	NGK BR8ES
Voltage regulator/output	240watt
Magneto pulse	6
CDI marking	CU7245



TRAIL TOURING

MODEL S06N(T,U)5BS(A)

Table 1-103: Engine

Engine type	Fuji
Engine displacement	544cc
Bore in/mm	2.87/73
Stroke in/mm	2.56/65
Piston to cylinder clearance in/mm	.0045-.0053/.11-.13
Piston ring end gap	.016-.022/.40-.55
Operating RPM $\pm$ 200	7000
Idle RPM	1600
Clutch engagement RPM $\pm$ 200	3800

Table 1-104: Fuel Delivery

Type	VM 34
Main Jet	280 PTO / 270 MAG
Pilot Jet	40
Jet Needle/Clip position	6BGY41/3
Needle Jet	Q-4 (480)
Throttle gap under cutaway in/mm	.250/6.35
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	0.75
Recommended fuel octane (R+M/2)	87 NonOxy/89 Oxy Min

Table 1-105: Jetting

Altitude meters (feet)	Ambient Temperature					
	< -30° F / < -34° C	-30° F to +10° F / -34° C to -23° C	-10° F to +10° F / -23° C to -12° C	+10° F to +30° F / -12° C to -1° C	+30° F to +50° F / -1° C to +10° C	> 50° F / > +10° C
0-600 (0-2000)	300/290 #4	290/280 #3	280/270 #3	270/260 #3	260/250 #3	250/240 #2
600-1200 (2000-4000)	290/280 #3	270/260 #3	260/250 #3	250/240 #3	240/230 #2	230/220 #2
1200-1800 (4000-6000)	270/260 #3	260/250 #3	250/240 #3	240/230 #2	230/220 #2	220/210 #2
1800-2400 (6000-8000)	250/240 #3	240/230 #3	230/220 #2	220/210 #2	210/200 #1	200/190 #1
2400-3000 (8000-10000)	240/230 #3	230/220 #2	220/210 #2	200/190 #2	190/180 #1	180/170 #1
3000-3700 (10000-12000)	220/210 #2	210/200 #2	200/190 #2	190/180 #1	180/170 #1	170/160 #1
Jetting listed as PTO/MAG						

Table 1-106: Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-900 (0-3000)	10-62	Dark Blue/White	Red/Blue	S40ER	19:41-74
900-1800 (3000-6000)	10-62	Dark Blue/White	Red/Blue	S40ER	19:41-74
1800-2700 (6000-9000)	10-60	Dark Blue/White	Red/Blue	S40ER	19:41-74
2700-3700 (9000-12000)	10-58	Dark Blue/White	Red/Blue	S40ER	19:41-74
Drive clutch bolt torque 50 ft-lbs(69Nm)					

Table 1-107: 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

Table 1-108: Chaincase

Center distance in/cm	7.92/20.1
Reverse type	PERC





Table 1-109: 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

Table 1-110: Track

Width in/cm	15/38
Length in/cm	136/345
Lug height in/cm	1/2.5
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

Table 1-111: Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7041918
IFS spring rate lbs-in/kg-mm	90-180/1.6-3.2
IFS Spring installed length in/cm	9.5/24.1
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

Table 1-112: Rear Suspension

Suspension type	Edge Touring
Front track shock (FTS)	Arvin/7041486
FTS spring rate	90-150/1.6-2.7
FTS spring installed length	10.375/26.4
Rear track shock (RTS)	Arvin/7042141*
RTS spring rate lbs-in/kg-mm	180-900/3.2-16.1
RTS spring installed length in/cm	10/25.4
Rear travel in/cm	15.2/38.6
* notes that shock is rebuildable	

Table 1-113: Torsion spring

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

Table 1-114: 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

Table 1-115: Electrical

Ignition timing	27°@3000 14°@6500
Spark plug gap in/mm	.028/.70
Spark plug	NGK BR9ES
Voltage regulator/output	240watt
Magneto pulse	6
CDI marking	CU7242



600 EDGE TOURING

MODEL S06PK6FS(A,B)

Table 1-116: Engine

Engine type	Liberty
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	.014-.020/.356-.508
Operating RPM $\pm$ 200	8000
Idle RPM	1500
Clutch engagement RPM $\pm$ 200	3800
Exhaust valve spring	Green/White

Table 1-117: Fuel Delivery

Type	TM38
Main Jet	420
Pilot Jet	50
Jet Needle/Clip position	9DGI01-60/4
Needle Jet	P-6
Throttle gap under cutaway in/mm	.079/2
Throttle slide cutaway	1.5
Valve seat	1.5
Starter jet	140
Pilot air jet	N/A
Fuel screw setting	1.5
Air screw setting	.5
Recommended fuel octane (R+M/2)	87 Min NonOxy

Table 1-118: 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
0-600 (0-2000)	450 #5	430 #5	420 #4	410 #4	400 #4	380 #4	370 #4
600-1200 (2000-4000)	410 #5	390 #4	380 #4	370 #4	360 #4	340 #4	330 #3
1200-1800 (4000-6000)	380 #4	360 #4	350 #4	340 #4	330 #4	320 #3	300 #3
1800-2400 (6000-8000)	360 #4	340 #4	330 #4	320 #3	300 #3	290 #3	280 #3
2400-3000 (8000-10000)	340 #4	320 #4	310 #3	300 #3	290 #3	270 #3	260 #3
3000-3700 (10000-12000)	330 #4	310 #3	300 #3	290 #3	270 #3	260 #3	240 #3
3700-4500 (12000-14000)	310 #4	290 #3	280 #3	270 #3	260 #3	240 #3	230 #3

When using non oxygenated fuel with a research octane Number (RON) of greater than 93, decrease the main jet number on the above chart by 30.

Table 1-119: Clutching

Altitude meters (feet)	Drive Clutch (P-85)		Driven Clutch (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-900 (0-3000)	10-62	Black/ Green	Red/ Green	64/42-65 ER	21:41-74
900-1500 (3000-5000)	10-60	Black/ Green	Red/ Green	64/42-65 ER	21:41-74
1500-2100 (5000-7000)	10-58	Black/ Green	Red/ Green	64/42-65 ER	21:41-74
2100-2700 (7000-9000)	10-56	Black/ Green	Red/ Green	64/42-65 ER	21:41-74
2700-3350 (9000-11000)	10-54	Black/ Green	Red/ Green	64/42-65 ER	21:41-74
3350-4000 (11000-13000)	10AL	Black/ Green	Red/ Green	64/42-65 ER	21:41-74

Drive clutch bolt torque 50 ft-lbs

Table 1-120: 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



**Table 1-121: Chaincase**

Center distance in/cm	7.92/20.1
Reverse type	PERC

Table 1-122: Fluids and capacities

Fuel gal/l	12.25/46.4
Oil qts/l	3.25/3.1
Coolant qts/l	5.8/5.5
Chaincase oz/ml	9/266.2
Brake fluid type	DOT 4

Table 1-123: Track

Width in/cm	15/38
Length in/cm	136/345
Lug height in/cm	1/2.5
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

Table 1-124: Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7041918
IFS spring rate in-lbs/kg-mm	90-180/1.6-3.2
Spring installed length in/cm	9.5/24.1
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

Table 1-125: Rear Suspension

Suspension type	Edge Touring
Front track shock (FTS)	Arvin/7041486
FTS spring rate lbs-in/kg-mm	90-150/1.6-2.7
FTS spring installed length in/cm	10.375/26.4
Rear track shock	Arvin/7042141*
Rear travel in/cm	15.2/38.6
* notes that shock is rebuildable	

Table 1-126: Torsion spring

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

Table 1-127: Dimensions

Width in/cm	48/121.9
Length in/cm	128/325
Height in/cm	49.5/126
Est dry weight lb/kg	578/262.4

Table 1-128: Electrical

Ignition timing	24°@3000
Spark plug gap in/mm	.025/.64
Spark plug	Champion RN57YCC
Voltage regulator/output	280watt
Magneto pulse	6
CDI marking	4010830



700 TOURING

MODEL S06PT7HS

Table 1-129: Engine

Engine type	Liberty
Engine displacement	755
Bore in/mm	3.05/77.5
Stroke in/mm	3.15/80
Piston to cylinder clearance in/mm	.0045-.0074/.114-.188
Piston ring end gap	.014-.020/.35-.50
Operating RPM $\pm$ 200	7600
Idle RPM	1700
Clutch engagement RPM $\pm$ 200	3700
Exhaust valve spring	Purple

Table 1-130: Fuel Delivery

Type	Cleanfire
Throttle body size in/mm	2.0/51
Fuel pressure psi/bar	116/8
Recommended fuel octane (R+M/2)	91

Table 1-131: Idle TPS voltage setting

Altitude meters/feet	Voltage $\pm$.01v
0-1800(0-6000)	.93
1800-2700(6000-9000)	.95
> 2700 (>9000)	.97

Table 1-132: Clutching

ALTITUDE meters (feet)	DRIVE CLUTCH (P-85)		DRIVEN CLUTCH (TEAM)		
	Shift Weight	Clutch Spring	Clutch Spring	Driven Helix	Gearing
0-600 (0-2000)	10-72	Dark Blue / White	Red/Black	62/42-46 ER	23:39-76
600-1200 (2000-4000)	10-72	Dark Blue / White	Red/Black	62/42-46 ER	23:39-76
1200-1800 (4000-6000)	10-70	Dark Blue / White	Red/Black	62/42-46 ER	23:39-76
1800-2400 (6000-8000)	10-68	Black / Green	Red/Black	62/38-36 ER	22:40-76
2400-3000 (8000-10000)	10-66	Black / Green	Red/Black	62/38-36 ER	20:41-76
3000-3600 (10000-12000)	10-64	Black / Green	Red/Black	62/38-36 ER	20:41-76

Drive clutch bolt torque 96 ft-lbs (130Nm)

Table 1-133: 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

Table 1-134: Chaincase

Center distance in/cm	8.373/21.27
Reverse type	PERC

Table 1-135: Fluids and capacities

Fuel gal/l	10.8/40.9
Oil qts/l	3/2.8
Coolant qts/l	6.7/6.3
Chaincase oz/ml	11/325.3
Brake fluid type	DOT 4



**Table 1-136: IQ Track**

Width in/cm	15/38
Length in/cm	136/345
Lug height in/cm	1/2.5
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

Table 1-137: Front Suspension

Suspension type	IQ 42.5
IFS shocks	Arvin/7043054
IFS spring rate lbs-in/kg-mm	120/2.2
Spring installed length in/cm	9.95/25.3
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

Table 1-138: M-10 Rear Suspension

Suspension type	M-10 136
Front track shock	Fox/7043123*
Front track shock spring rate lbs-in/kg-mm	220/3.9
Spring installed length in/cm	8.5/21.6
Rear track shock	Fox/7043190*
Upper Spring lbs-in/kg-mm	273/4.9
Lower outer spring lbs-in/kg-mm	715/12.8
Lower inner spring lbs-in/kg-mm	425/7.6
Rear travel in/cm	14/35.6
* notes that shock is rebuildable	

Table 1-139: Dimensions

Width in/cm	48/121.9
Length in/cm	129/327.7
Height in/cm	53/134.6
Est dry weight lb/kg	598/271.5

Table 1-140: Electrical

Stator output	400w@4000RPM
Ignition timing @ 9.6-12.7% throttle	16°@3500
Spark plug gap in/mm	.025/.64
Spark plug	Champion RN57YCC



WIDETRAK LX

MODEL S06SU4BS

Table 1-141: Engine

Engine type	Fuji
Engine displacement	488cc
Bore in/mm	2.83/72
Stroke in/mm	2.36/60
Piston to cylinder clearance in/mm	.0035-.0049/.089-.125
Piston ring end gap in/mm	.0070-.016/.18-.41
Operating RPM±200	7800
Idle RPM±200	1600
Clutch engagement RPM ±200	3800
Exhaust valve spring	N/A

Table 1-142: 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/89 Oxy Min

Table 1-143: Jetting

Altitude meters (feet)	Ambient Temperature					
	< -30°F / < -34°C	-30°F to +10°F / -34°C to -23°C	-10°F to +10°F / -23°C to -12°C	+10°F to +30°F / -12°C to -1°C	+30°F to +50°F / 1°C to +10°C	> 50°F / > +10°C
0-600 (0-2000)	210 #2	200 #2	195 #2	185 #2	175 #2	170 #2
600-1200 (2000-4000)	195 #2	185 #2	180 #2	170 #2	165 #2	155 #2
1200-1800 (4000-6000)	185 #2	175 #2	170 #2	160 #2	155 #1	145 #1
1800-2400 (6000-8000)	170 #2	165 #2	155 #2	150 #1	140 #1	135 #1
2400-3000 (8000-10000)	160 #2	155 #2	145 #1	140 #1	130 #1	120 #1
3000-3700 (10000-12000)	150 #2	140 #1	135 #1	125 #1	120 #1	110 #1

Table 1-144: 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

Table 1-145: 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

Table 1-146: Chaincase

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



**Table 1-147: 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

Table 1-148: Track

Width in/cm	20/51
Length in/cm	156/396
Lug height in/cm	1/2.5
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

Table 1-149: Front Suspension

Suspension type	38"
IFS shocks	Arvin/7041535
IFS spring rate lbs-in/kg-mm	105/1.9
Spring installed length in/cm	9.25/23.5
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

Table 1-150: Rear Suspension

Suspension type	Slide Rail Coupled
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
* notes that shock is rebuildable	

Table 1-151: Torsion spring

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

Table 1-152: 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

Table 1-153: Electrical

Ignition timing	28°@3000
Spark plug gap in/mm	.028/.71
Spark plug	Champion RN3C
Voltage regulator/output	200watt
Magneto pulse	2
CDI marking	IU2212



500 XC SP

MODEL S06NP5CSB

Table 1-154: Engine

Engine type	Liberty
Engine displacement	500
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	.014-.020/.356-.508
Operating RPM±200	8250-8500
Idle RPM	1500
Clutch engagement RPM +/- 200	4200
Exhaust valve spring	Pink/Yellow

Table 1-155: Fuel Delivery

Type	TM38
Main Jet	410
Pilot Jet	45
Jet Needle/Clip position	9DFH6-57/2
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

Table 1-156: Jetting

Altitude meters (feet)	Ambient Temperature					
	< -30°F / < -34°C	-30°F to +10°F / -34°C to -23°C	-10°F to +10°F / -23°C to -12°C	+10°F to +30°F / -12°C to -1°C	+30°F to +50°F / -1°C to +10°C	> 50°F / > +10°C
0-600 (0-2000)	440 #3	430 #3	410 #2	390 #2	380 #2	360 #2
600-1200 (2000-4000)	420 #3	400 #2	390 #2	370 #2	350 #2	340 #1
1200-1800 (4000-6000)	390 #2	380 #2	360 #2	340 #2	330 #1	310 #1
1800-2400 (6000-8000)	370 #2	350 #2	340 #2	320 #1	300 #1	290 #1
2400-3000 (8000-10000)	340 #2	330 #2	310 #1	300 #1	280 #1	260 #1
3000-3700 (10000-12000)	320 #2	300 #1	290 #1	270 #1	250 #1	240 #1

Table 1-157: 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 ER	22:40-74
900-1800 (3000-6000)	10-54	Black/Green	Red/Black	56/42-36 ER	22:40-74
1800-2700 (6000-9000)	10	Black/Green	Red/Black	56/42-36 ER	21:40-74
2700-3700 (9000-12000)	10M Blue	Black/Green	Red/Black	56/42-36 ER	21:40-74

Drive clutch bolt torque 50 ft-lbs

Table 1-158: 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

Table 1-159: Chaincase

Center distance in/cm	7.92/20.1
Reverse type	PERC



**Table 1-160: 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

Table 1-161: Track

Width in/cm	15/38
Length in/cm	121/307
Lug height in/cm	.91/2.3
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

Table 1-162: Front Suspension

Suspension type	Edge
IFS shocks	Arvin/7042211
IFS spring rate lbs-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

Table 1-163: Rear Suspension

Front track shock	Arvin/7041975
FTS Spring rate lbs-in/kg-mm	160 Var/2.86 Var
FTS Spring installed length	7.46/18.9
Rear track shock	Fox/7042129*
Rear travel in/cm	13.9/35.3
* notes that shock is rebuildable	

Table 1-164: Torsion spring

Torsion spring PNs (LH/RH)	7041935/7041936
Torsion spring diameter in/mm	.375/9.5
Torsion spring tail angle	77

Table 1-165: Dimensions

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

Table 1-166: Electrical

Ignition timing	25°@2500RPM
Spark plug gap in/mm	.025/.64
Spark plug	Champion RN57YCC
Voltage regulator/output	280watt
Magneto pulse	6
CDI marking	4010829



600 HO STANDARD FUSION

MODEL S06M(E,P)6FS(A,B)

Table 1-167: Engine

Engine type	600 Liberty
Engine displacement	599cc
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	.014-.020/.36-.51
Operating RPM	8100
Idle RPM	1500
Clutch engagement RPM $\pm$ 200	3800
Exhaust valve spring	Pink

Table 1-168: 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	.083/2.1
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

Table 1-169: 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
0-600 (0-2000)	440 #3	430 #3	420 #2	400 #2	390 #2	380 #2	370 #1
600-1200 (2000-4000)	410 #3	400 #3	390 #2	370 #2	360 #2	350 #2	340 #1
1200-1800 (4000-6000)	370 #3	360 #2	350 #2	340 #2	330 #2	320 #1	310 #1
1800-2400 (6000-8000)	340 #3	320 #2	310 #2	300 #2	280 #2	280 #1	270 #1
2400-3000 (8000-10000)	310 #2	300 #2	290 #2	280 #1	270 #1	260 #1	250 #1
3000-3700 (10000-12000)	290 #2	280 #2	270 #1	250 #1	240 #1	230 #1	220 #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 insert the E-clip one position. If already in position #1 install washer on top when using the above fuel.

Table 1-170: 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	56/42-36	20:41-76
600-1200 (2000-4000)	10-60	Black/ Green	Red/ Black	56/42-36	20:41-76
1200-1800 (4000-6000)	10-58	Black/ Green	Red/ Black	56/42-36	20:41-76
1800-2400 (6000-8000)	10-56	Black/ Green	Red/ Black	56/42-36	20:41-76
2400-3000 (8000-10000)	10-54	Black/ Green	Red/ Black	56/42-36	20:41-76
3000-3700 (10000-12000)	10AL	Black/ Green	Red/ Black	56/42-36	20:41-76
Drive clutch bolt torque 50 ft-lbs(69Nm)					

Table 1-171: 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



**Table 1-172: Chaincase**

Center distance in/cm	8.373/21.27
Reverse type	PERC

Table 1-173: Fluids and capacities

Fuel gal/l	10.8/40.9
Oil qts/l	3.4/3.2
Coolant qts/l	5.6/5.3
Chaincase oz/ml	11/325.3
Brake fluid type	DOT 4

Table 1-174: IQ Track

Width in/cm	15/38
Length in/cm	121/307
Lug height in/cm	1/2.5
Track tension sag in/cm with 10 lbs/4.54kg placed 16 in/40.6cm ahead of rear idler shaft	7/8" - 1 1/8" (2.2 - 2.9cm)

Table 1-175: M-10 Track

Width in/cm	15/38
Length in/cm	128/325
Lug height in/cm	1.25/3.2
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

Table 1-176: Front Suspension

Suspension type	IQ 42.5
IFS shocks	Arvin/7042258*
IFS spring rate lbs-in/kg-mm	100/1.8
Spring installed length in/cm	10.55/26.8
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

Table 1-177: M-10 Rear Suspension

Suspension type	M-10 128
Front track shock	Fox/7043123*
Front track shock spring rate lbs-in/kg-mm	180/3.2
Spring installed length in/cm	8.75/22.2
Rear track shock	Fox/7043190*
Lower outer lbs-in/kg-mm	715/12.8
Lower inner lbs-in/kg-mm	425/7.6
Upper lbs-in/kg-mm	273/4.9
Rear travel in/cm	13.9/35.3
* notes that shock is rebuildable	

Table 1-178: IQ Rear Suspension

Suspension type	IQ 121
Front track shock (FTS)	Arvin/7043178*
FTS spring rate lbs-in/kg-mm	130-270/2.3-4.8
FTS spring installed length in/cm	7.97/20.2
Rear track shock	Fox/7043177*
Rear idler wheel travel in/cm	13.9/35.3
* notes that shock is rebuildable	

Table 1-179: Torsion spring

Torsion spring PNs (LH/RH)	7043070/7043071
Torsion spring diameter in/mm	.347/8.8
Torsion spring tail angle	80°

Table 1-180: Dimensions

Width in/cm	47.25/120
Length in/cm	115/292
Height in/cm	47/119
Est dry weight lb/kg	480/217.9

Table 1-181: Electrical

Stator output	400w@4000RPM
Ignition timing @ 9.6-12.7% throttle	16°@3500
Spark plug gap in/mm	.025/.64
Spark plug	Champion RN57YCC

SPECIFICATIONS



600 HO DRAGON FUSION

MODEL S06MC6FS

Table 1-182: Engine

Engine type	600 Liberty
Engine displacement	599cc
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	.014-.020/.36-.51
Operating RPM	8100
Idle RPM	1500
Clutch engagement RPM +/- 200	3800
Exhaust valve spring	Pink

Table 1-183: 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	.083/2.1
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

Table 1-184: 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
0-600 (0-2000)	440 #3	430 #3	420 #2	400 #2	390 #2	380 #2	370 #1
600-1200 (2000-4000)	410 #3	400 #3	390 #2	370 #2	360 #2	350 #2	340 #1
1200-1800 (4000-6000)	370 #3	360 #2	350 #2	340 #2	330 #2	320 #1	310 #1
1800-2400 (6000-8000)	340 #3	320 #2	310 #2	300 #2	280 #2	280 #1	270 #1
2400-3000 (8000-10000)	310 #2	300 #2	290 #2	280 #1	270 #1	260 #1	250 #1
3000-3700 (10000-12000)	290 #2	280 #2	270 #1	250 #1	240 #1	230 #1	220 #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 insert the E-clip one position. If already in position #1 install washer on top when using the above fuel.							

Table 1-185: 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	56/42-36	20:41-76
600-1200 (2000-4000)	10-60	Black/ Green	Red/ Black	56/42-36	20:41-76
1200-1800 (4000-6000)	10-58	Black/ Green	Red/ Black	56/42-36	20:41-76
1800-2400 (6000-8000)	10-56	Black/ Green	Red/ Black	56/42-36	20:41-76
2400-3000 (8000-10000)	10-54	Black/ Green	Red/ Black	56/42-36	20:41-76
3000-3700 (10000-12000)	10AL	Black/ Green	Red/ Black	56/42-36	20:41-76
Drive clutch bolt torque 50 ft-lbs					

Table 1-186: 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

