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ski-doo® Bombardier

SNOWMOBILES

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SERVICE Bulletin

No. **2001-1**

REVISION 1

Date: September 8, 2000

SUBJECT: Sea Level Specifications

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2001	All Summit* Series	All Summit* Series	All Summit* Series

THESE MODIFICATIONS MUST BE PERFORMED ON ABOVE MENTIONED SNOWMOBILES FOR SEA LEVEL RIDING

The present bulletin supplies all informations pertaining to parts **required to modify** above mentioned models for **sea level riding**.

For 1999 and previous model years, refer to "High Altitude and Sea Level Data" booklet, (P/N 484 300 003).

For 2000 model year, refer to *Service Bulletin 2000-2*.

CAUTION: The following modifications and adjustments apply only for altitudes from and below 1800 m (6000 ft).

Failure to comply with these requirements may cause serious engine damage.

SUMMIT 800 (STD) / 800 (HM) / 800 (X) / 800 (HM X)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	←	←	←	←	Violet/Yellow 415 015 300	←
Ramp	←	←	←	←	300 417 222 381	←
Calibration screw position	3	4	5	2	3	←
Pin	←	←	Qty 3 x 1 417 004 308	←	Qty 3 x 1 417 004 309	←
Engagement RPM ± 100	←	←	3800	←	4100	←
Maximum RPM ± 100	←	←	←	←	7850	←

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		←	←	←	←	Yellow 415 092 800	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	←	7.0 15.4	←
Cam angle	° (degrees)	←	←	←	←	50°/47° 417 126 339	←

Additional Information:

– Below 600 m (2000 ft), use a 23 teeth sprocket (P/N 504 085 400) to obtain a chain case ratio of 23/43. On Summit 800 (HM package) and Summit 800 (HM X package), existing chain must be replaced with a 74/13 chain (P/N 504 151 857).

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURATION

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet		←	←	←	←	500	←
Jet needle		←	←	←	←	9ZLY2	←
Needle position		←	←	←	←	58	←
Slide cut-away		←	←	←	←	2.0	←
Pilot jet		←	←	←	←	17.5	←
Air screw		←	←	←	←	1.5	←
Valve seat		←	←	←	←	1.5	←
Needle jet		←	←	←	←	P-0	←
Float level	mm	—	—	—	—	—	—
Idle	RPM ± 200	←	←	←	←	1500	←
Idle throttle valve position	mm	1.7	2.2	2.2	2.2	2.2	2.2

MAIN JET CHART

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F							PTO MAG
- 30°C - 20°F							PTO MAG
- 20°C - 4°F	←	←	←	←	**500**	←	**PTO MAG**
- 10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

NOTE: Arrows in the charts indicate that the preceding information is repeated.

NOTE: Shaded columns give factory settings.

SUMMIT 700 (STD) / 700 (X) / 700 (HM)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	←	←	←	←	Violet/Yellow 415 015 300	←
Ramp	←	←	←	←	417 222 372	←
Calibration screw position	3	1	2	3	4	6
Pin	←	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←
Engagement RPM ± 100	←	←	←	←	4100	←
Maximum RPM ± 100	←	←	←	←	8000	←

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		←	←	←	←	Beige 414 558 900	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	←	8.0 17.6	←
Cam angle	° (degrees)	←	←	←	←	47° 417 126 337	←

Additional Information:

– Below 600 m (2000 ft), use a 23 teeth sprocket (P/N 504 085 400) to obtain a chain case ratio of 23/43. On Summit 700 (HM package), existing chain must be replaced with a 74/13 chain (P/N 504 151 857).

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURATION

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet		←	←	←	←	520	←
Jet needle		←	←	←	←	9ZLY3	←
Needle position		←	←	←	←	58	←
Slide cut-away		←	←	←	←	2.0	←
Pilot jet		←	←	←	←	17.5	←
Air screw		←	←	←	←	1.5	←
Valve seat		←	←	←	←	1.5	←
Needle jet		←	←	←	←	P-0	←
Float level	mm	—	—	—	—	—	—
Idle	RPM ± 200	←	←	←	←	1500	←
Idle throttle valve position	mm	1.5	1.6	1.7	1.7	1.8	1.9

MAIN JET CHART

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F							
- 30°C - 20°F							PTO MAG
- 20°C - 4°F	←	←	←	←	**520**	←	**PTO MAG**
- 10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

NOTE: Arrows in the charts indicate that the preceding information is repeated.

NOTE: Shaded columns give factory settings.

SUMMIT 600 (STD)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	←	Green/White 417 222 371	←	←	Pink/White 414 991 400	←
Ramp	←	417 005 293 X	←	←	417 005 287	←
Calibration screw position	4	5	1	2	3	4
Pin	←	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←
Engagement RPM ± 100	←	4100	←	←	4500	←
Maximum RPM ± 100	←	←	←	←	8000	←

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		←	←	←	←	Beige 414 558 900	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	←	8.0 17.6	←
Cam angle	° (degrees)	←	←	←	←	47° 417 126 337	←

Additional Information:

– Below 600 m (2000 ft), use a 23 teeth sprocket (P/N 504 085 400) to obtain a chain case ratio of 23/43. On Summit 600 (standard package), existing chain muse be replaced with a 74/13 chain (P/N 504 151 857).

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURATION

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet		←	←	←	←	500	←
Jet needle		←	←	←	←	9HFY2	←
Needle position		←	←	←	←	53	←
Slide cut-away		←	←	←	←	2.0	←
Pilot jet		←	←	←	←	20.0	←
Air screw		←	←	←	←	1.0	←
Valve seat		←	←	←	←	1.5	←
Needle jet		←	←	←	←	P-O	←
Float level	mm	←	←	←	←	N.A.	←
Idle	RPM ± 200	←	←	←	←	1500	←
Idle throttle valve position	mm	1.8	1.9	2.0	2.1	2.2	2.3

MAIN JET CHART

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F							PTO MAG
- 30°C - 20°F							PTO MAG
- 20°C - 4°F	←	←	←	←	**500**	←	**PTO MAG**
- 10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

NOTE: Arrows in the charts indicate that the preceding information is repeated.

NOTE: Shaded columns give factory settings.

SUMMIT 500 F (FAN)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	←	←	Violet/Yellow 415 015 300	←	Green/Violet 414 762 800	←
Ramp	←	←	417 005 296	←	417 005 227	←
Calibration screw position	3	4	5	2	3	4
Pin	←	←	←	←	Qty 3 x 1 417 004 309	←
Engagement RPM ± 100	←	←	3800	←	4500	←
Maximum RPM ± 100	←	←	←	←	7000	←

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		←	←	←	←	Yellow 415 092 800	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	←	0.0 pos. 3	←
Cam angle	° (degrees)	←	←	←	←	47° - 44° 417 124 700	←

Additional Information: At and under 1200 m (4000 ft) remove reverse connector (P/N 515 174 700).

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURATION

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet		←	←	←	←	200 190	←
Jet needle		←	←	←	←	6DH2	←
Needle position		4	←	←	←	5	←
Slide cut-away		←	←	←	←	2.5	←
Pilot jet		←	←	←	←	70	←
Air screw		2.25	←	←	←	1.5	←
Valve seat		←	←	←	←	1.5	←
Needle jet		←	←	←	←	P-2 (159)	←
Float level	mm	←	←	←	←	23.9	←
Idle	RPM ± 200	←	←	←	←	1650	←
Idle throttle valve position	mm	1.5	1.7	1.9	2.2	2.4	2.6

MAIN JET CHART

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	215 210	200 190	←	←	←	←	PTO MAG
- 30°C - 20°F	210 200	200 190	←	←	←	←	PTO MAG
- 20°C - 4°F	**200 190**	←	←	←	←	←	**PTO MAG**
- 10°C 14°F	200 190	←	←	←	←	←	PTO MAG
0°C 32°F	200 190	←	←	←	←	←	PTO MAG
10°C 50°F	200 190	←	←	←	←	←	PTO MAG
20°C 70°F	200 190	←	←	←	←	←	PTO MAG

NOTE: Arrows in the charts indicate that the preceding information is repeated.

NOTE: Shaded columns give factory settings.